

# **RSPG-007-2023-ITEGI**

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## **Puntos de apoyo fotogramétrico**

Código de Estudio: ITE-2023-020

# GNSS Processing Report

Report created: 09/06/2023 17:56:13

## Project Details

### General

Project Name: CUAJONE 2  
Owner: -  
Lead Surveyor: -  
Date Created: 09/06/2023 09:08:36  
Last Accessed: 09/06/2023 09:08:37  
Application Software: Infinity 4.0.0

### Customer Details

Customer Name: -  
Contact Person: -  
Number: -  
Email: -  
Skype: -  
Website: -

### Master Coordinate System

Coordinate System Name: UTM WGS84 19S  
Transformation Type: -  
Residual Distribution: None  
Ellipsoid: WGS 1984  
Projection Type: UTM  
Geoid Model: AR-Peru\_EGM08\_2  
CSCS Model: -

Path: C:\Users\Usuario\Documents\Leica Geosystems\Infinity\Projects\CUAJONE 2\CUAJONE 2.iprj  
Size: 205.0 MB  
Comments: -

## Baseline MOQ01058 - PAF-CU2-1B

### Processing Parameters (23/05/2023 11:59:07 - 23/05/2023 12:07:48)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-1B

### Acquisition

Start Time - End Time: 23/05/2023 11:59:07 - 23/05/2023 12:07:48  
Duration: 00:08:41

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-1B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-1B	Reference - MOQ01058	Rover - PAF-CU2-1B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 48.64019" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 43' 33.99962" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,494.331 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,014,686.527 m		3,453.081 m
WGS84 Cartesian Y:	-	-5,761,457.390 m		
WGS84 Cartesian Z:	-	-1,857,050.386 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 32.37118"	SD ΔLatitude:	0.008 m
ΔLongitude:	-0° 01' 02.30918"	SD ΔLongitude:	0.008 m
ΔHeight:	-444.580 m	SD ΔHeight:	0.018 m
ΔX:	-1,977.106 m	SD ΔX:	0.009 m
ΔY:	67.539 m	SD ΔY:	0.016 m
ΔZ:	-821.911 m	SD ΔZ:	0.010 m
Slope Dist.:	2,142.206 m	SD Slope Dist.:	0.010 m

M0:	1.763 m	CQ 1D:	0.018 m
Q11:	0.00002832	CQ 2D:	0.011 m
Q12:	-0.00001909	CQ 3D:	0.021 m
Q22:	0.00008626		
Q13:	0.00000044		
Q23:	0.00002788		
Q33:	0.00002907		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 3.2	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.2 - 2.2	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.6 - 1.6	Beidou SVs:	5/5
		VDOP:	1.0 - 1.4	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

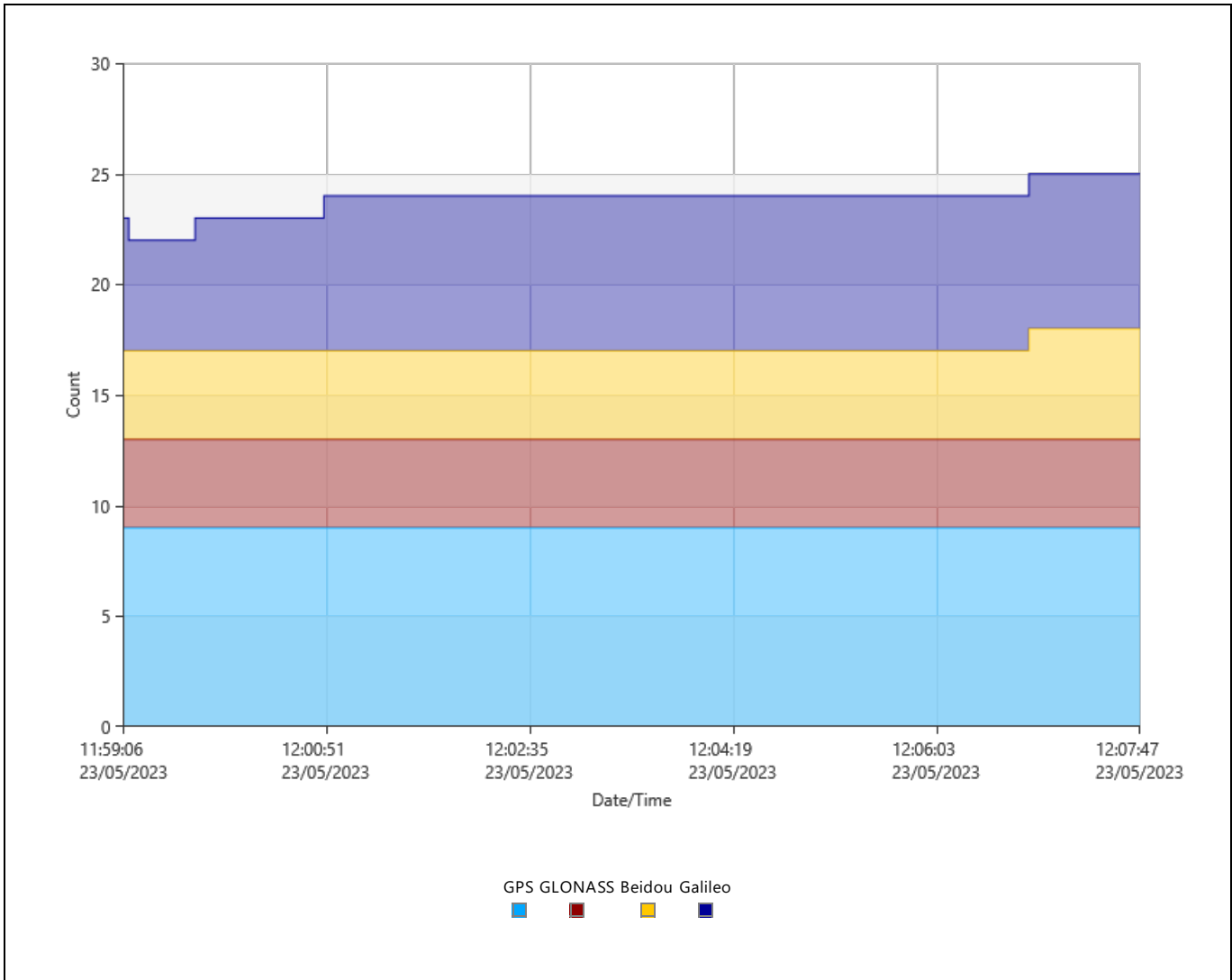
## Processing Info (23/05/2023 11:59:07 - 23/05/2023 12:07:48)

Processed Date/Time: 09/06/2023 17:54:21

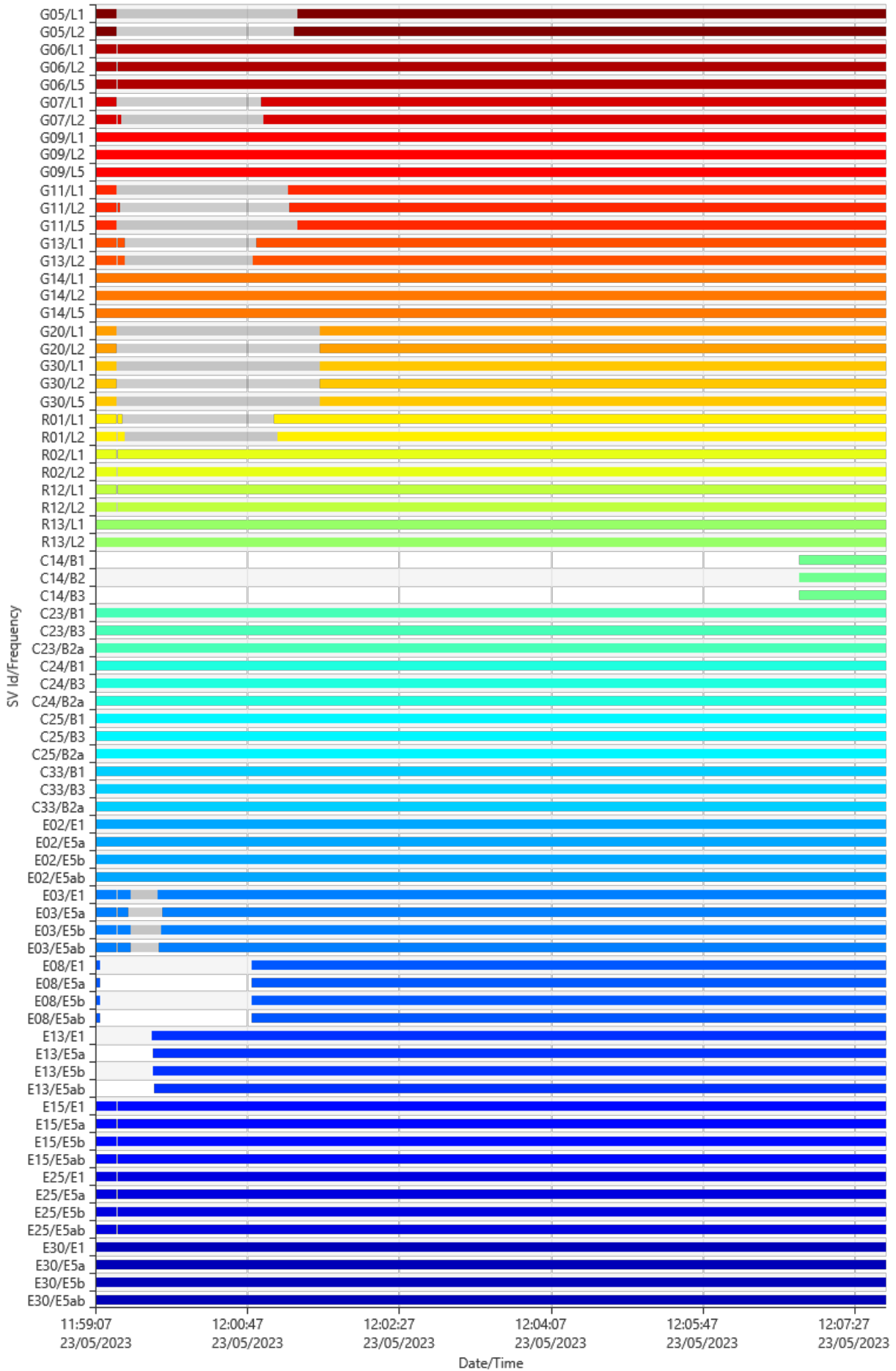
## Satellites

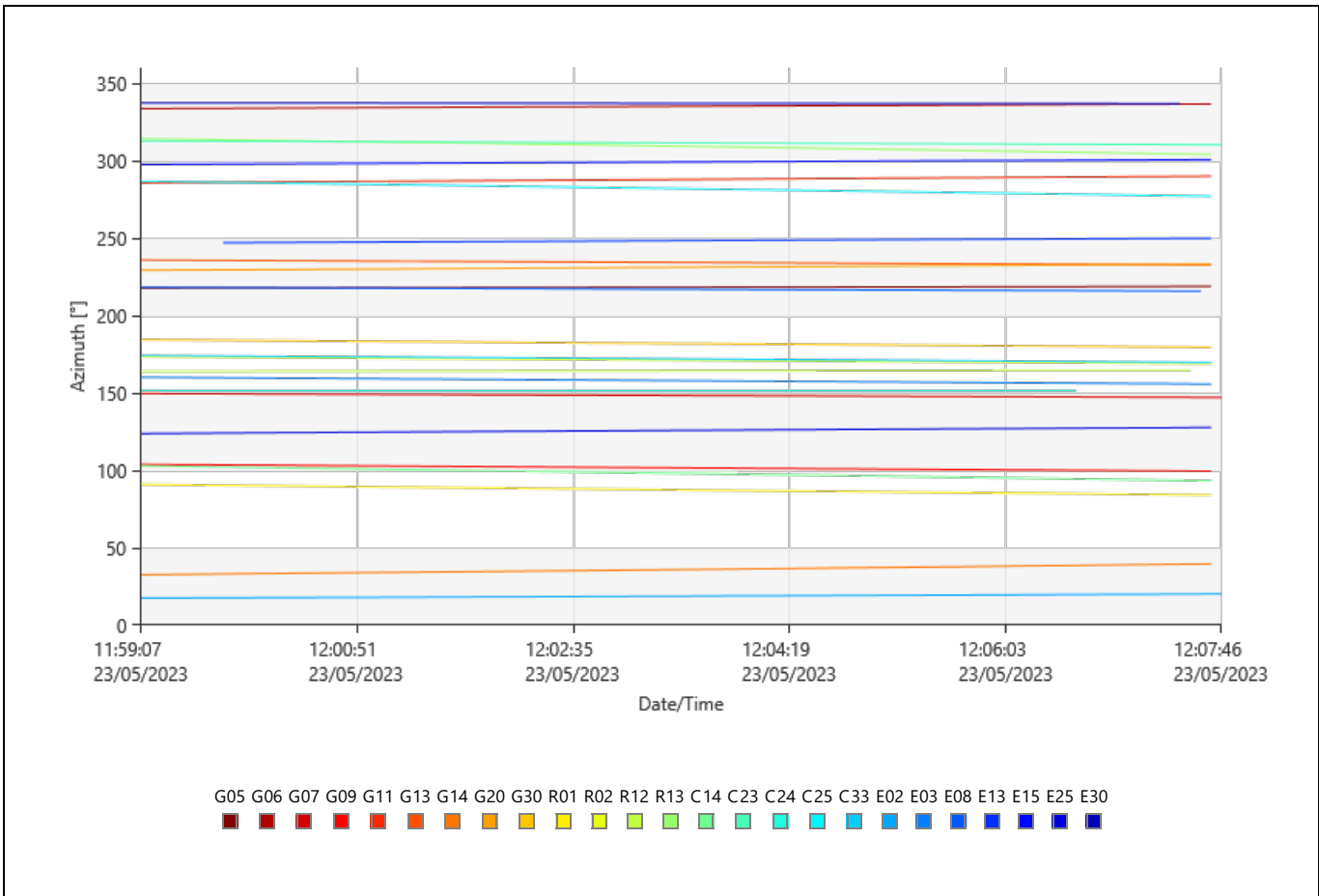
Satellite System	Used	Manually Disabled
GPS	G05 G06 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R12 R13	-
Beidou	C14 C23 C24 C25 C33	-
Galileo	E02 E03 E08 E13 E15 E25 E30	-

## SVs Tracked

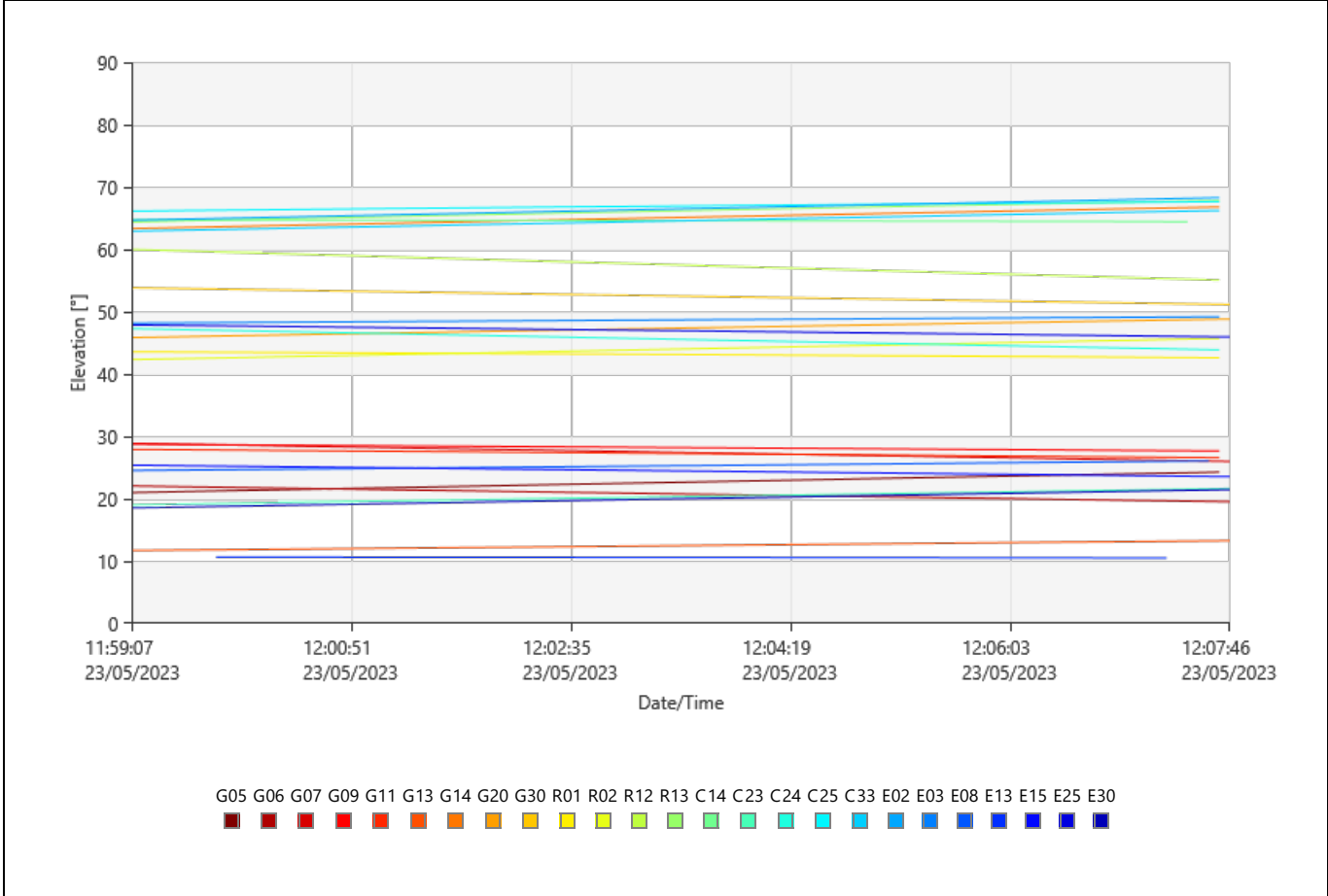


## Signals Tracked

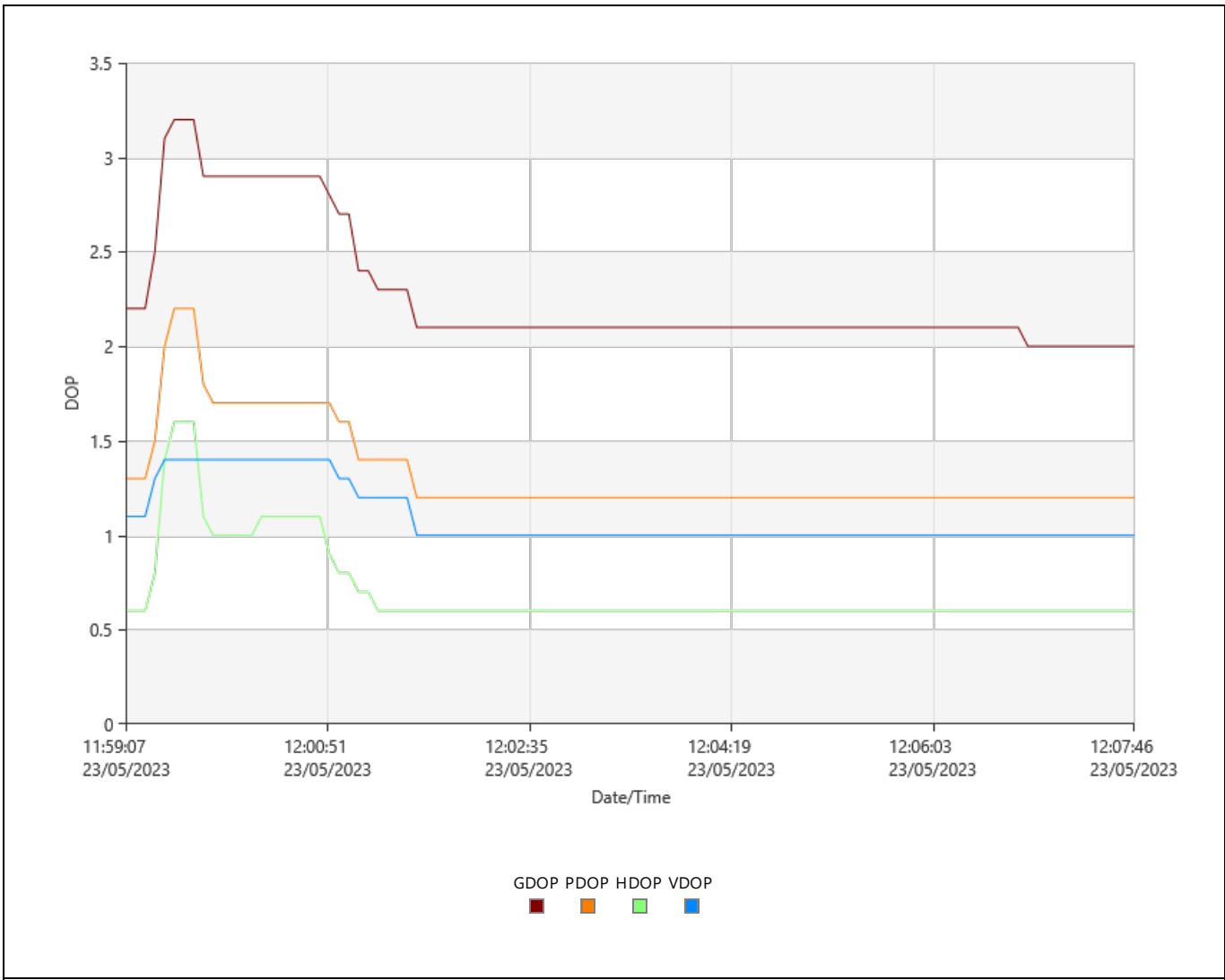




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 522

#### GPS Observations

Frequency	Used	Rejected
L1	4,014	684
L2	4,018	680
L5	2,356	254

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,985	103
L2	1,984	104

#### Beidou Observations

Frequency	Used	Rejected
B1	2,146	0
B2	58	0
B3	2,146	0
B2a	2,088	0

#### Galileo Observations

Frequency	Used	Rejected
E1	3,496	21
E5a	3,491	25
E5b	3,493	23
E5ab	3,493	22

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	23	8	14	28
Total	46	16	27	53
Independently fixed	55	55	55	55
Possible independently fixed	98	98	98	98

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	97.50	97.50	97.50	97.50	97.50	97.57	0.00	98.12	97.50	98.06	98.06	98.06	97.95
Not fixed	2.50	2.50	2.50	2.50	2.50	2.43	100.00	1.88	2.50	1.94	1.94	1.94	2.05
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	23/05/2023 11:59:07	23/05/2023 11:59:20	00:00:13
Fixed	23/05/2023 11:59:20	23/05/2023 11:59:22	00:00:02

<b>Not fixed</b>	<b>23/05/2023 11:59:22</b>	<b>23/05/2023 12:07:48</b>	<b>00:08:26</b>
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## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:20</b>	<b>Rejected</b>
	23/05/2023 12:01:20	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:18</b>	<b>Rejected</b>
	23/05/2023 12:01:18	23/05/2023 12:07:48	Used

### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
L5	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used

### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:00:56</b>	<b>Rejected</b>
	23/05/2023 12:00:56	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:24	Used
	<b>23/05/2023 11:59:24</b>	<b>23/05/2023 12:00:58</b>	<b>Rejected</b>
	23/05/2023 12:00:58	23/05/2023 12:07:48	Used

### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
L5	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

### G11

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Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:14</b>	<b>Rejected</b>
	23/05/2023 12:01:14	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:23	Used
	<b>23/05/2023 11:59:23</b>	<b>23/05/2023 12:01:15</b>	<b>Rejected</b>
L5	23/05/2023 12:01:15	23/05/2023 12:07:48	Used
	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:20</b>	<b>Rejected</b>
	23/05/2023 12:01:20	23/05/2023 12:07:48	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:26	Used
	<b>23/05/2023 11:59:26</b>	<b>23/05/2023 12:00:53</b>	<b>Rejected</b>
	23/05/2023 12:00:53	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:26	Used
	<b>23/05/2023 11:59:26</b>	<b>23/05/2023 12:00:51</b>	<b>Rejected</b>
	23/05/2023 12:00:51	23/05/2023 12:07:48	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
L5	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:35</b>	<b>Rejected</b>
	23/05/2023 12:01:35	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:35</b>	<b>Rejected</b>
	23/05/2023 12:01:35	23/05/2023 12:07:48	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:35</b>	<b>Rejected</b>
	23/05/2023 12:01:35	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:35</b>	<b>Rejected</b>
	23/05/2023 12:01:35	23/05/2023 12:07:48	Used
L5	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 12:01:35</b>	<b>Rejected</b>
	23/05/2023 12:01:35	23/05/2023 12:07:48	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:25	Used
	<b>23/05/2023 11:59:25</b>	<b>23/05/2023 12:01:05</b>	<b>Rejected</b>
	23/05/2023 12:01:05	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	<b>23/05/2023 11:59:21</b>	<b>23/05/2023 11:59:22</b>	<b>Rejected</b>
	23/05/2023 11:59:22	23/05/2023 11:59:26	Used
	<b>23/05/2023 11:59:26</b>	<b>23/05/2023 12:01:07</b>	<b>Rejected</b>
	23/05/2023 12:01:07	23/05/2023 12:07:48	Used

R02

Frequency	From Epoch	To Epoch	Status
	23/05/2023 11:59:07	23/05/2023 11:59:21	Used

L1	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
L2	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5a	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 11:59:30	Used
	23/05/2023 11:59:30	23/05/2023 11:59:48	Rejected
E5a	23/05/2023 11:59:48	23/05/2023 12:07:48	Used
	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 11:59:29	Used
E5b	23/05/2023 11:59:29	23/05/2023 11:59:51	Rejected
	23/05/2023 11:59:51	23/05/2023 12:07:48	Used
	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
E5ab	23/05/2023 11:59:22	23/05/2023 11:59:30	Used
	23/05/2023 11:59:30	23/05/2023 11:59:50	Rejected
	23/05/2023 11:59:50	23/05/2023 12:07:48	Used
	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
E5ab	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 11:59:30	Used
	23/05/2023 11:59:30	23/05/2023 11:59:49	Rejected
	23/05/2023 11:59:49	23/05/2023 12:07:48	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 11:59:10	Used
	23/05/2023 11:59:10	23/05/2023 12:00:50	No Data
	23/05/2023 12:00:50	23/05/2023 12:07:48	Used
E5a	23/05/2023 11:59:07	23/05/2023 11:59:10	Used
	23/05/2023 11:59:10	23/05/2023 12:00:50	No Data
	23/05/2023 12:00:50	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 11:59:10	Used
	23/05/2023 11:59:10	23/05/2023 12:00:50	No Data
	23/05/2023 12:00:50	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 11:59:10	Used
	23/05/2023 11:59:10	23/05/2023 12:00:50	No Data
	23/05/2023 12:00:50	23/05/2023 12:07:48	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 11:59:44	No Data
	23/05/2023 11:59:44	23/05/2023 12:07:48	Used

E5a	23/05/2023 11:59:07	23/05/2023 11:59:45	No Data
	23/05/2023 11:59:45	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 11:59:45	No Data
	23/05/2023 11:59:45	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 11:59:46	No Data
	23/05/2023 11:59:46	23/05/2023 12:07:48	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5a	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5a	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 11:59:21	Used
	23/05/2023 11:59:21	23/05/2023 11:59:22	Rejected
	23/05/2023 11:59:22	23/05/2023 12:07:48	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5a	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5b	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
E5ab	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 11:59:07	23/05/2023 12:06:51	No Data
	23/05/2023 12:06:51	23/05/2023 12:07:48	Used
B2	23/05/2023 11:59:07	23/05/2023 12:06:51	No Data
	23/05/2023 12:06:51	23/05/2023 12:07:48	Used
B3	23/05/2023 11:59:07	23/05/2023 12:06:51	No Data
	23/05/2023 12:06:51	23/05/2023 12:07:48	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
B3	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
B2a	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
B3	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
B2a	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

<b>B3</b>	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
<b>B2a</b>	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

**C33**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
<b>B3</b>	23/05/2023 11:59:07	23/05/2023 12:07:48	Used
<b>B2a</b>	23/05/2023 11:59:07	23/05/2023 12:07:48	Used

**Cycle Slips**

Slip Count: 92

SV	Frequency	Epoch	Slip Value	Flag
G05	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
G07	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
G11	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L5	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
G13	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
G20	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
G30	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L5	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
R01	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
R02	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
R12	L1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	L2	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
C23	B1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	B2a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
C24	B1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	B2a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
C33	B1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	B2a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E1	23/05/2023 11:59:08	-	RIA

E03	E5a	23/05/2023 11:59:20	-	RIA
		23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5b	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5ab	23/05/2023 11:59:08	-	RIA
23/05/2023 11:59:20		-	RIA	
E08	E1	23/05/2023 11:59:08	-	RIA
	E5a	23/05/2023 11:59:08	-	RIA
	E5b	23/05/2023 11:59:08	-	RIA
	E5ab	23/05/2023 11:59:08	-	RIA
E15	E1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5b	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5ab	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
E25	E1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5b	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5ab	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
E30	E1	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5a	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5b	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
	E5ab	23/05/2023 11:59:08	-	RIA
		23/05/2023 11:59:20	-	RIA
E13	E5ab	23/05/2023 11:59:50	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-1A

### Processing Parameters (23/05/2023 12:00:25 - 23/05/2023 12:07:17)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere 15 km

Minimised:  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

**Results Baseline: MOQ01058 - PAF-CU2-1A**

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**Acquisition**

Start Time - End Time: 23/05/2023 12:00:25 - 23/05/2023 12:07:17  
Duration: 00:06:52

**Antennas**

	Reference - MOQ01058	Rover - PAF-CU2-1A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1		L2	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-1A		Reference - MOQ01058	Rover - PAF-CU2-1A
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 01' 42.73254" S	Easting:	318,107.441 m	315,755.728 m
WGS84 Longitude:	-	70° 43' 51.44978" W	Northing:	8,117,307.121 m	8,116,472.873 m
WGS84 Ellip. Height:	-	3,434.684 m	Ortho. Height:	3,897.429 m	3,393.471 m
WGS84 Cartesian X:	-	2,014,197.836 m			
WGS84 Cartesian Y:	-	-5,761,624.210 m			
WGS84 Cartesian Z:	-	-1,856,859.175 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 00' 26.46353"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 19.75934"	SD ΔLongitude:	0.000 m
ΔHeight:	-504.227 m	SD ΔHeight:	0.000 m
ΔX:	-2,465.796 m	SD ΔX:	0.000 m
ΔY:	-99.282 m	SD ΔY:	0.000 m
ΔZ:	-630.700 m	SD ΔZ:	0.000 m
Slope Dist.:	2,547.114 m	SD Slope Dist.:	0.000 m

M0:	0.290 m	CQ 1D:	0.000 m
Q11:	0.00000007	CQ 2D:	0.000 m
Q12:	-0.00000006	CQ 3D:	0.000 m
Q22:	0.00000029		
Q13:	-0.00000001		
Q23:	0.00000009		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 3.1	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.2 - 1.8	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.5 - 1.0	Beidou SVs:	4/4
		VDOP:	1.0 - 1.5	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

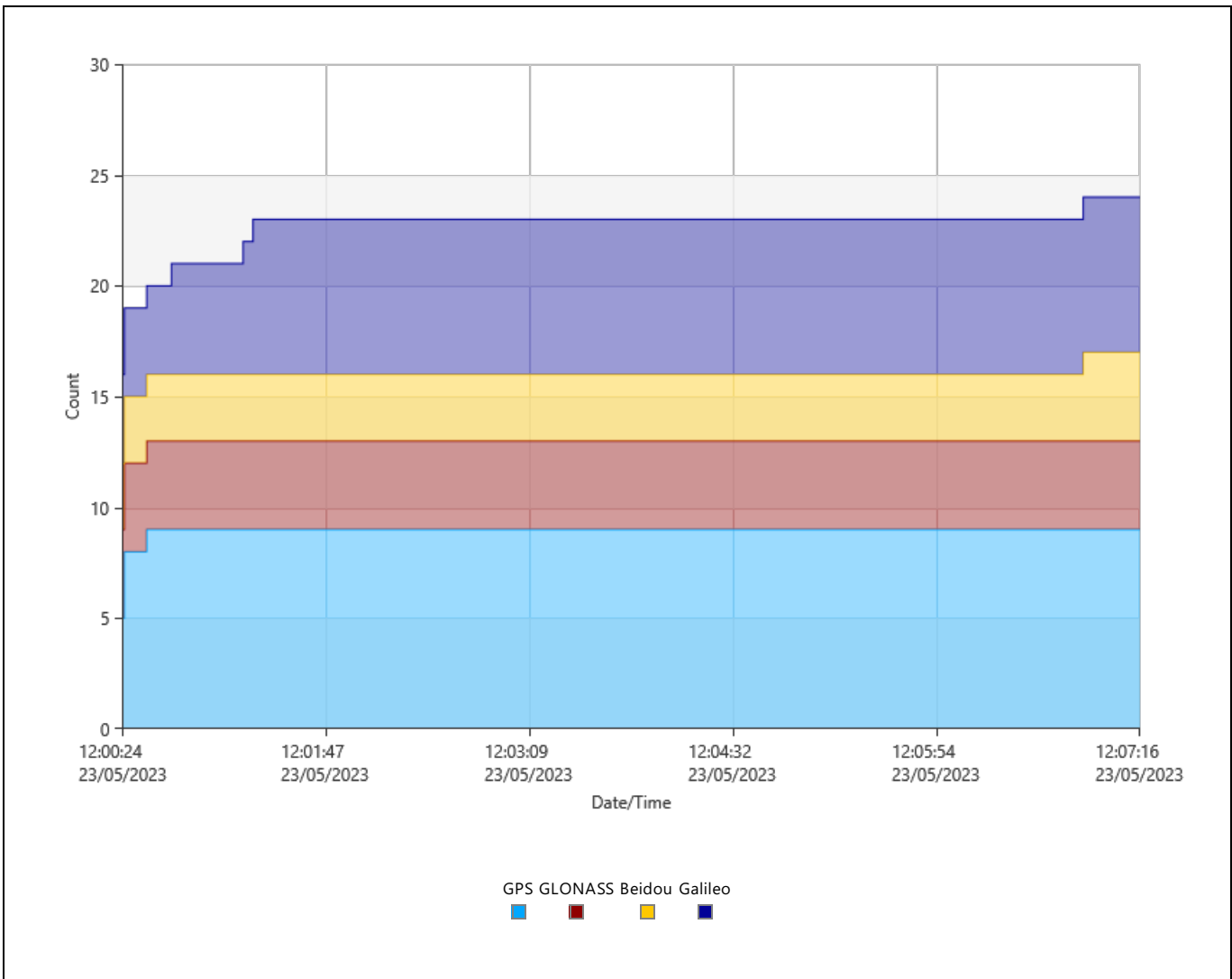
### Processing Info (23/05/2023 12:00:25 - 23/05/2023 12:07:17)

Processed Date/Time: 09/06/2023 17:54:21

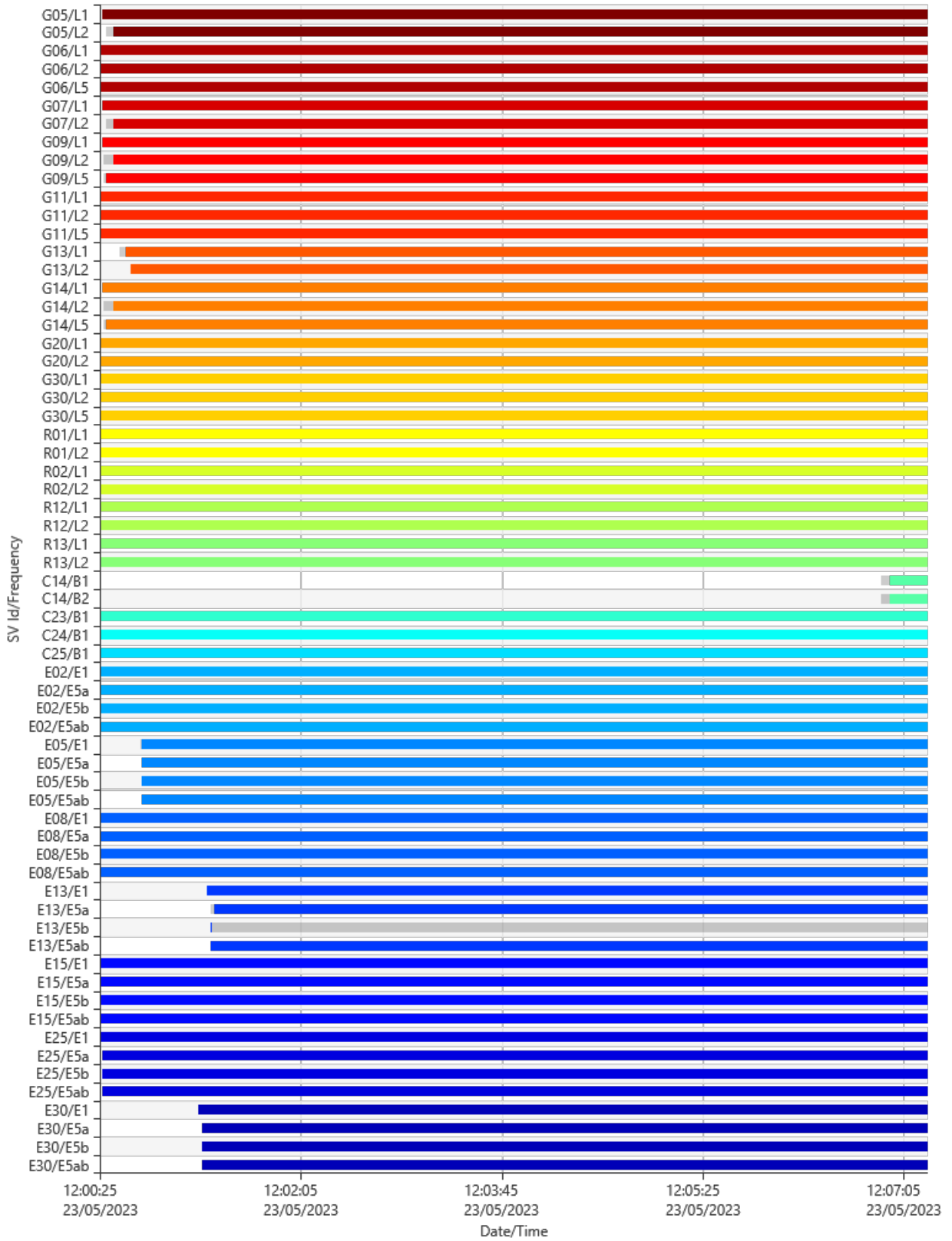
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G06 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R12 R13	-
Beidou	C14 C23 C24 C25	-
Galileo	E02 E05 E08 E13 E15 E25 E30	-

### SVs Tracked

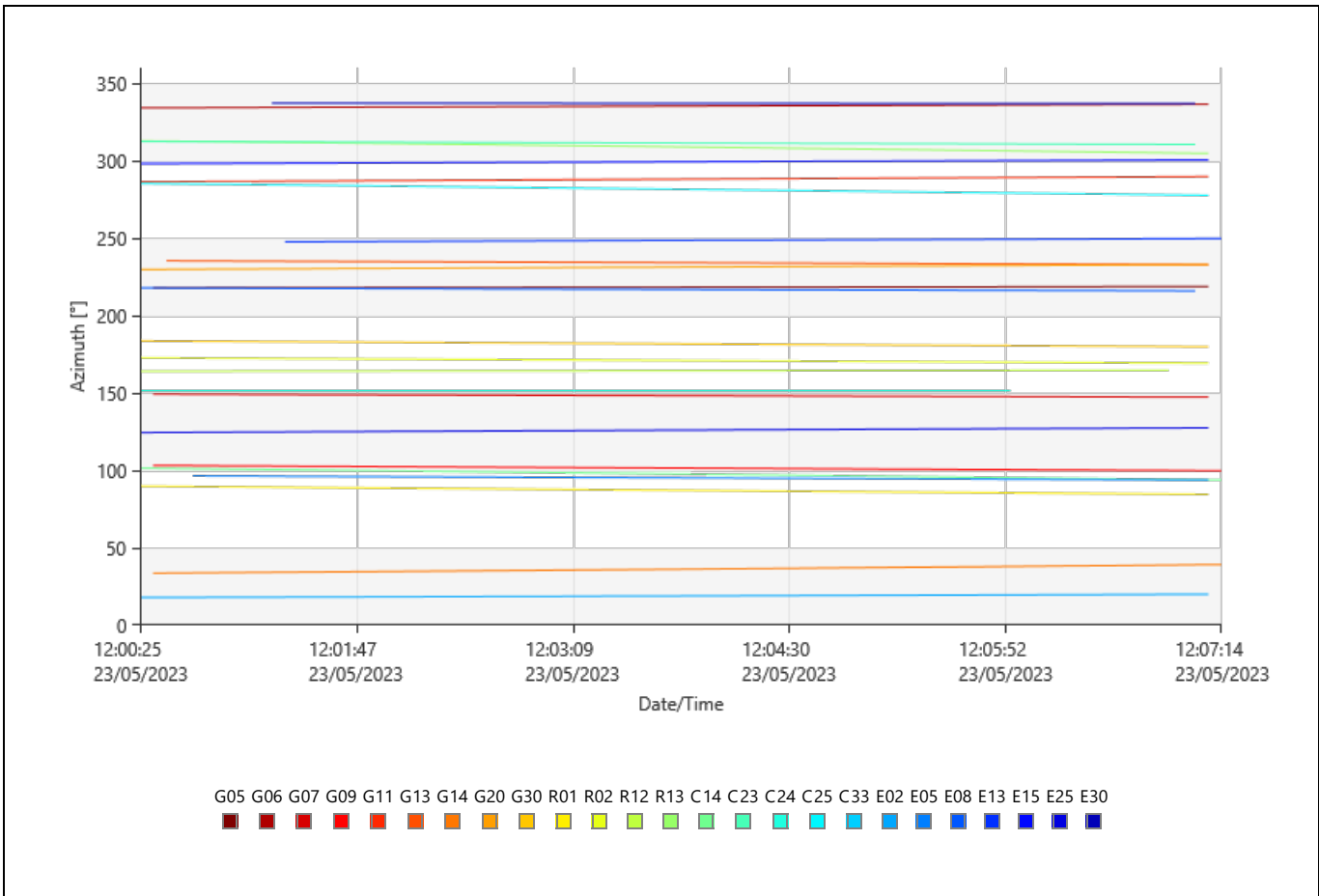


### Signals Tracked

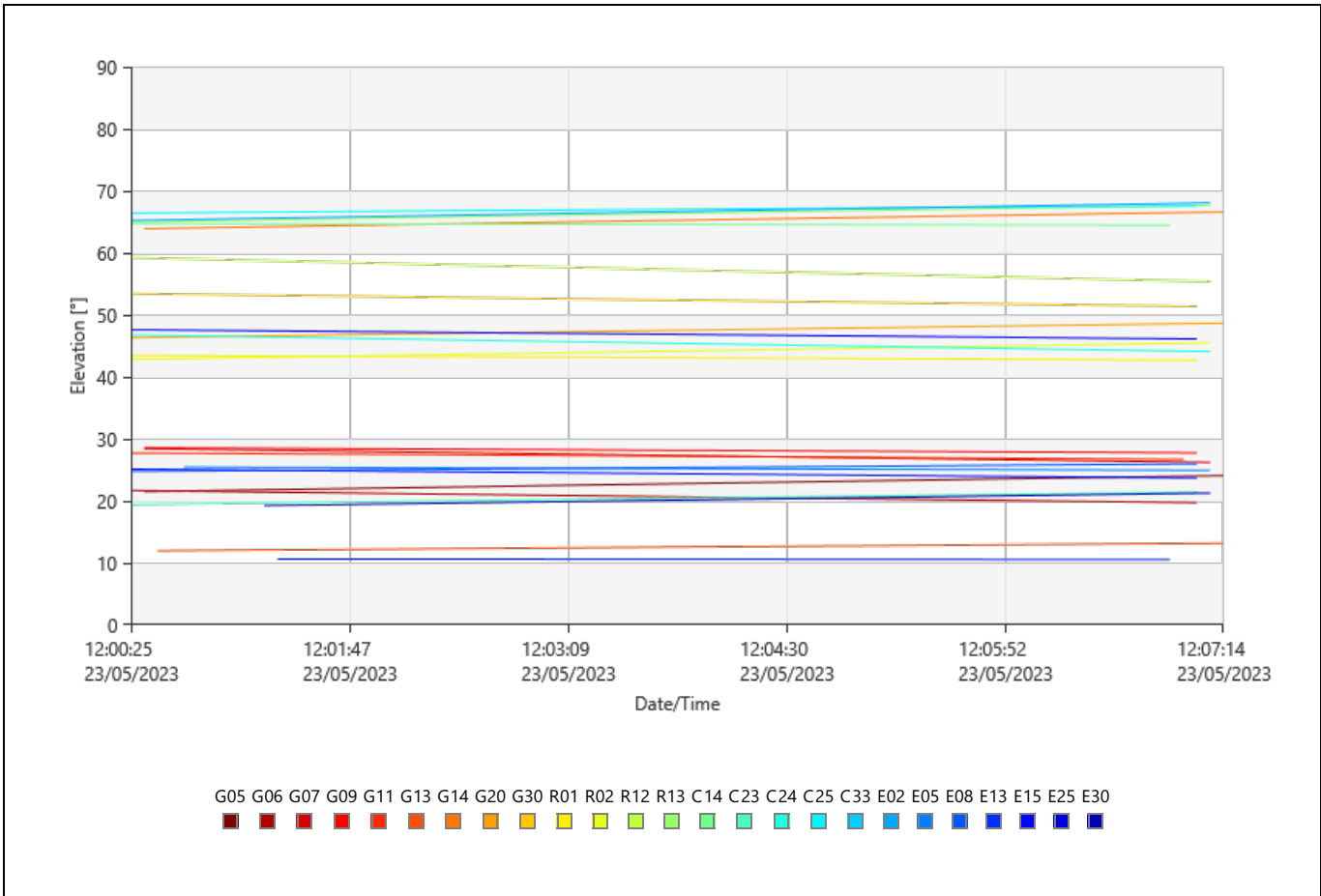


Azimuth

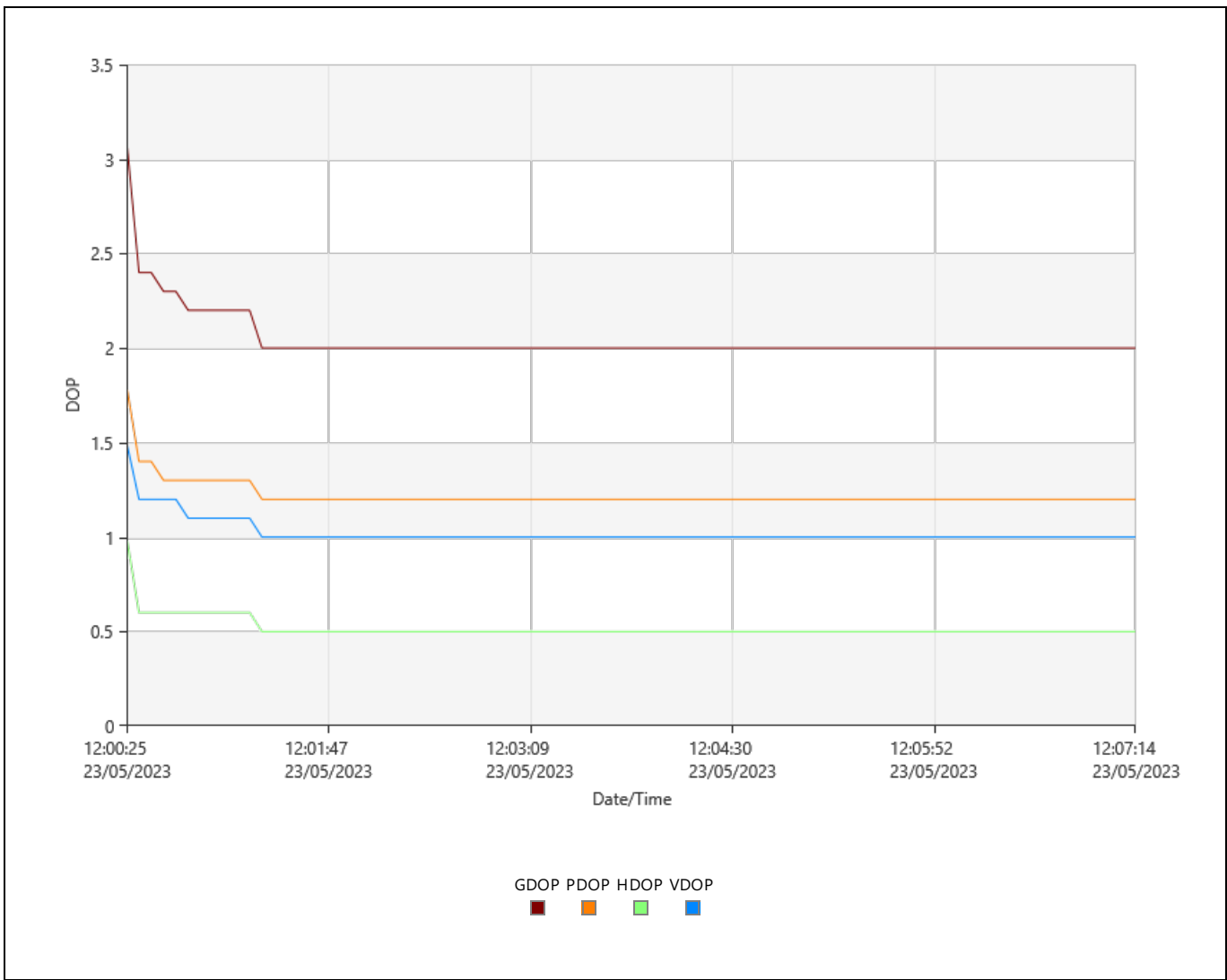




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 413

#### GPS Observations

Frequency	Used	Rejected
L1	3,700	3
L2	3,674	18
L5	2,059	2

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,652	0
L2	1,652	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,259	4
B2	20	4

#### Galileo Observations

Frequency	Used	Rejected
E1	2,768	1
E5a	2,761	2
E5b	2,406	357
E5ab	2,763	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	23	8	5	28
Total	23	8	5	29
Independently fixed	51	51	51	51
Possible independently fixed	51	51	51	51

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.93	100.00	100.00
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 12:00:25	23/05/2023 12:07:17	00:06:52

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:00:28	No Data
	23/05/2023 12:00:25	23/05/2023 12:00:31	No Data
	23/05/2023 12:00:28	23/05/2023 12:00:31	Rejected
	23/05/2023 12:00:31	23/05/2023 12:00:32	Rejected
	23/05/2023 12:00:32	23/05/2023 12:07:17	Used
	23/05/2023 12:00:31	23/05/2023 12:07:17	No Data

#### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L5	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

#### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:00:28	No Data
	23/05/2023 12:00:25	23/05/2023 12:00:31	No Data
	23/05/2023 12:00:28	23/05/2023 12:00:31	Rejected
	23/05/2023 12:00:31	23/05/2023 12:00:32	Rejected
	23/05/2023 12:00:32	23/05/2023 12:07:17	Used
	23/05/2023 12:00:31	23/05/2023 12:07:17	No Data

#### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:00:27	No Data
	23/05/2023 12:00:25	23/05/2023 12:00:31	No Data
	23/05/2023 12:00:27	23/05/2023 12:00:31	Rejected
	23/05/2023 12:00:31	23/05/2023 12:00:32	Rejected
	23/05/2023 12:00:32	23/05/2023 12:07:17	Used
	23/05/2023 12:00:31	23/05/2023 12:07:17	No Data
L5	23/05/2023 12:00:25	23/05/2023 12:00:27	No Data
	23/05/2023 12:00:27	23/05/2023 12:00:28	Rejected
	23/05/2023 12:00:28	23/05/2023 12:07:17	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L5	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:00:35	No Data
	23/05/2023 12:00:35	23/05/2023 12:00:38	Rejected
	23/05/2023 12:00:38	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:00:40	No Data
	23/05/2023 12:00:40	23/05/2023 12:07:17	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:00:27	No Data
	23/05/2023 12:00:25	23/05/2023 12:00:31	No Data
	23/05/2023 12:00:27	23/05/2023 12:00:31	Rejected
	23/05/2023 12:00:31	23/05/2023 12:00:32	Rejected
	23/05/2023 12:00:32	23/05/2023 12:07:17	Used
L5	23/05/2023 12:00:31	23/05/2023 12:07:17	No Data
	23/05/2023 12:00:25	23/05/2023 12:00:27	No Data
	23/05/2023 12:00:27	23/05/2023 12:00:28	Rejected
	23/05/2023 12:00:28	23/05/2023 12:07:17	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L5	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
L2	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

E05

Frequency	From Epoch	To Epoch	Status
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E1	23/05/2023 12:00:25	23/05/2023 12:00:45	No Data
	23/05/2023 12:00:45	23/05/2023 12:00:46	Rejected
	23/05/2023 12:00:46	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:00:46	No Data
	23/05/2023 12:00:46	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:00:46	No Data
	23/05/2023 12:00:46	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:00:46	No Data
	23/05/2023 12:00:46	23/05/2023 12:07:17	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:01:18	No Data
	23/05/2023 12:01:18	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:01:20	No Data
	23/05/2023 12:01:20	23/05/2023 12:01:22	Rejected
	23/05/2023 12:01:22	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:01:20	No Data
	23/05/2023 12:01:20	23/05/2023 12:01:21	Used
	23/05/2023 12:01:21	23/05/2023 12:07:17	Rejected
E5ab	23/05/2023 12:00:25	23/05/2023 12:01:20	No Data
	23/05/2023 12:01:20	23/05/2023 12:07:17	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:00:26	No Data
	23/05/2023 12:00:26	23/05/2023 12:07:17	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:00:25	23/05/2023 12:01:14	No Data
	23/05/2023 12:01:14	23/05/2023 12:07:17	Used
E5a	23/05/2023 12:00:25	23/05/2023 12:01:16	No Data
	23/05/2023 12:01:16	23/05/2023 12:07:17	Used
E5b	23/05/2023 12:00:25	23/05/2023 12:01:16	No Data
	23/05/2023 12:01:16	23/05/2023 12:07:17	Used
E5ab	23/05/2023 12:00:25	23/05/2023 12:01:16	No Data
	23/05/2023 12:01:16	23/05/2023 12:07:17	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:00:25	23/05/2023 12:06:54	No Data
	23/05/2023 12:06:54	23/05/2023 12:06:58	Rejected
	23/05/2023 12:06:58	23/05/2023 12:07:17	Used
B2	23/05/2023 12:00:25	23/05/2023 12:06:54	No Data
	23/05/2023 12:06:54	23/05/2023 12:06:58	Rejected
	23/05/2023 12:06:58	23/05/2023 12:07:17	Used

C23

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Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:00:25	23/05/2023 12:07:17	Used

## Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
E13	E5a	23/05/2023 12:01:22	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-2B

## Processing Parameters (23/05/2023 12:14:55 - 23/05/2023 12:20:20)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-2B

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### Acquisition

Start Time - End Time: 23/05/2023 12:14:55 - 23/05/2023 12:20:20  
Duration: 00:05:25

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-2B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-2B	Reference - MOQ01058	Rover - PAF-CU2-2B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 59.37397" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 43' 39.92199" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,480.772 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,014,484.904 m		3,439.561 m
WGS84 Cartesian Y:	-	-5,761,411.713 m		
WGS84 Cartesian Z:	-	-1,857,362.089 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 43.10495"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 08.23155"	SD ΔLongitude:	0.000 m
ΔHeight:	-458.139 m	SD ΔHeight:	0.000 m
ΔX:	-2,178.728 m	SD ΔX:	0.000 m
ΔY:	113.216 m	SD ΔY:	0.000 m
ΔZ:	-1,133.615 m	SD ΔZ:	0.000 m
Slope Dist.:	2,458.609 m	SD Slope Dist.:	0.000 m

M0:	0.218 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000008	CQ 3D:	0.000 m
Q22:	0.00000035		
Q13:	-0.00000001		
Q23:	0.00000008		
Q33:	0.00000010		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.8 - 3.1	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.1 - 2.0	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.9	Beidou SVs:	5/5
		VDOP:	0.9 - 1.7	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

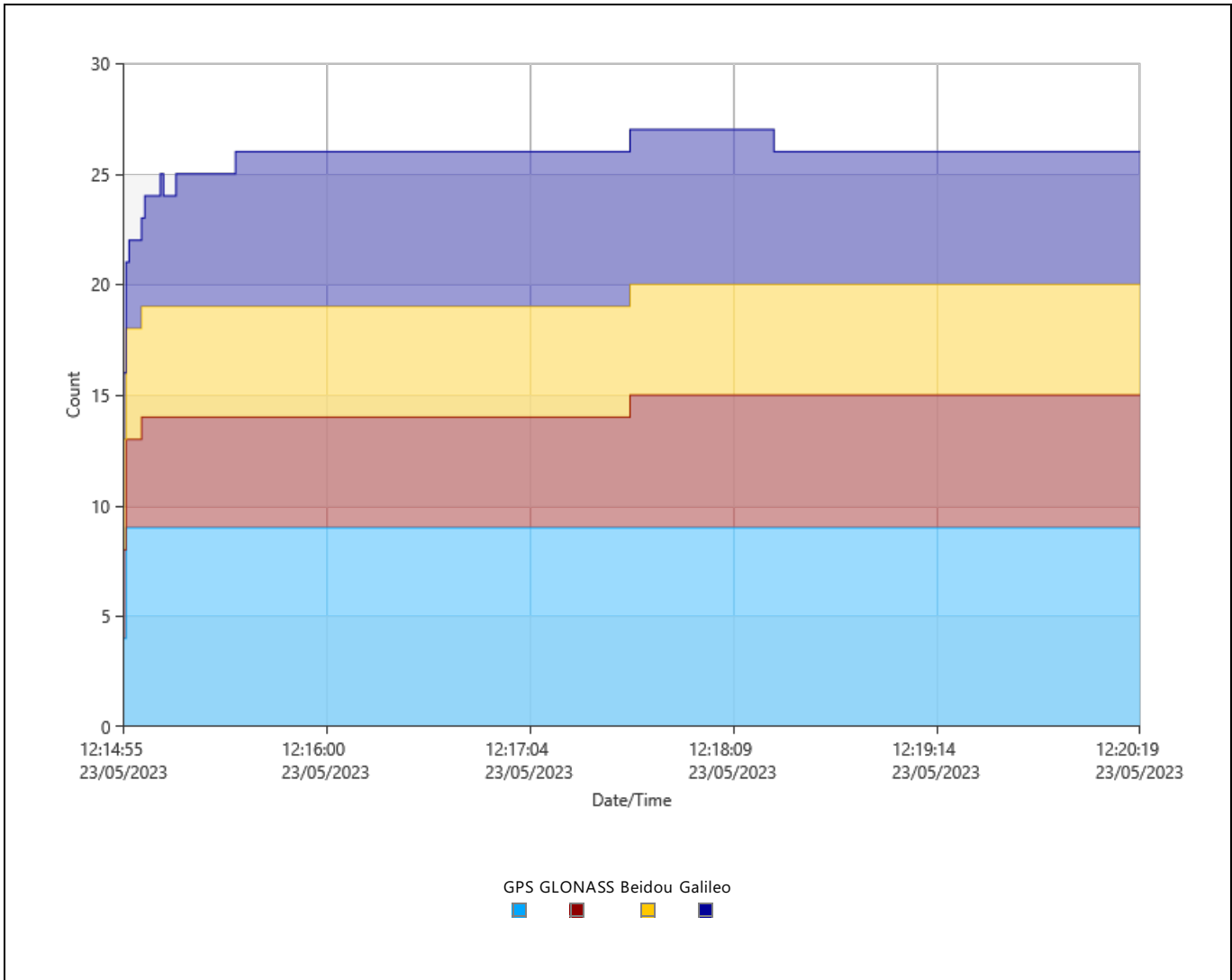
## Processing Info (23/05/2023 12:14:55 - 23/05/2023 12:20:20)

Processed Date/Time: 09/06/2023 17:54:21

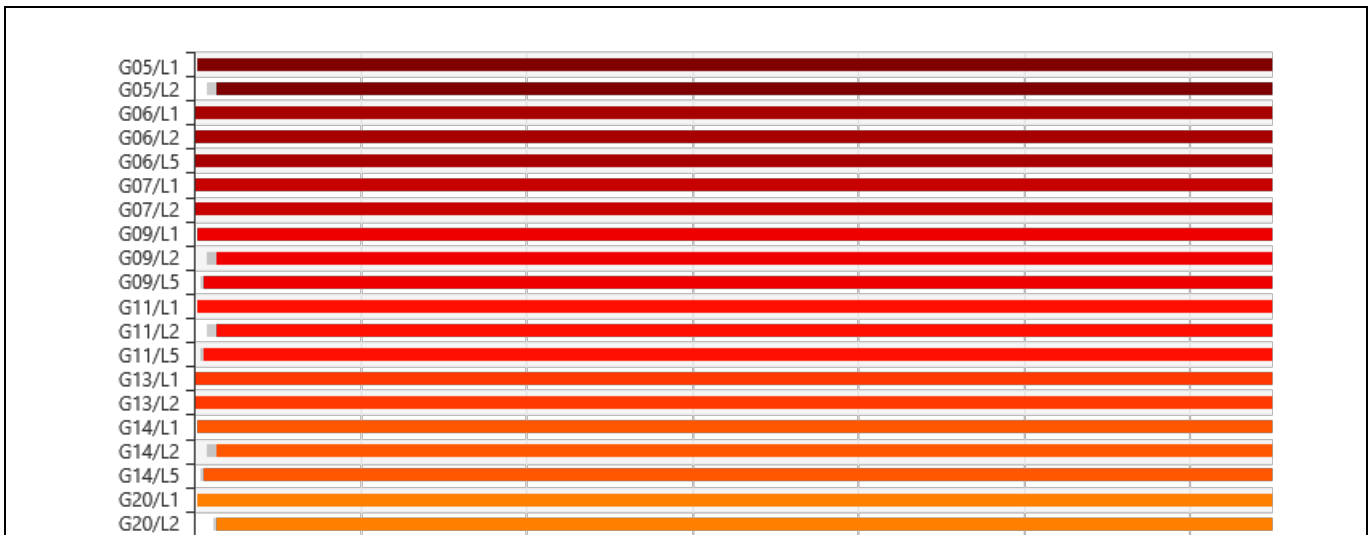
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G06 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R03 R12 R13 R14	-
Beidou	C14 C23 C24 C25 C33	-
Galileo	E02 E03 E05 E08 E13 E15 E25 E30	-

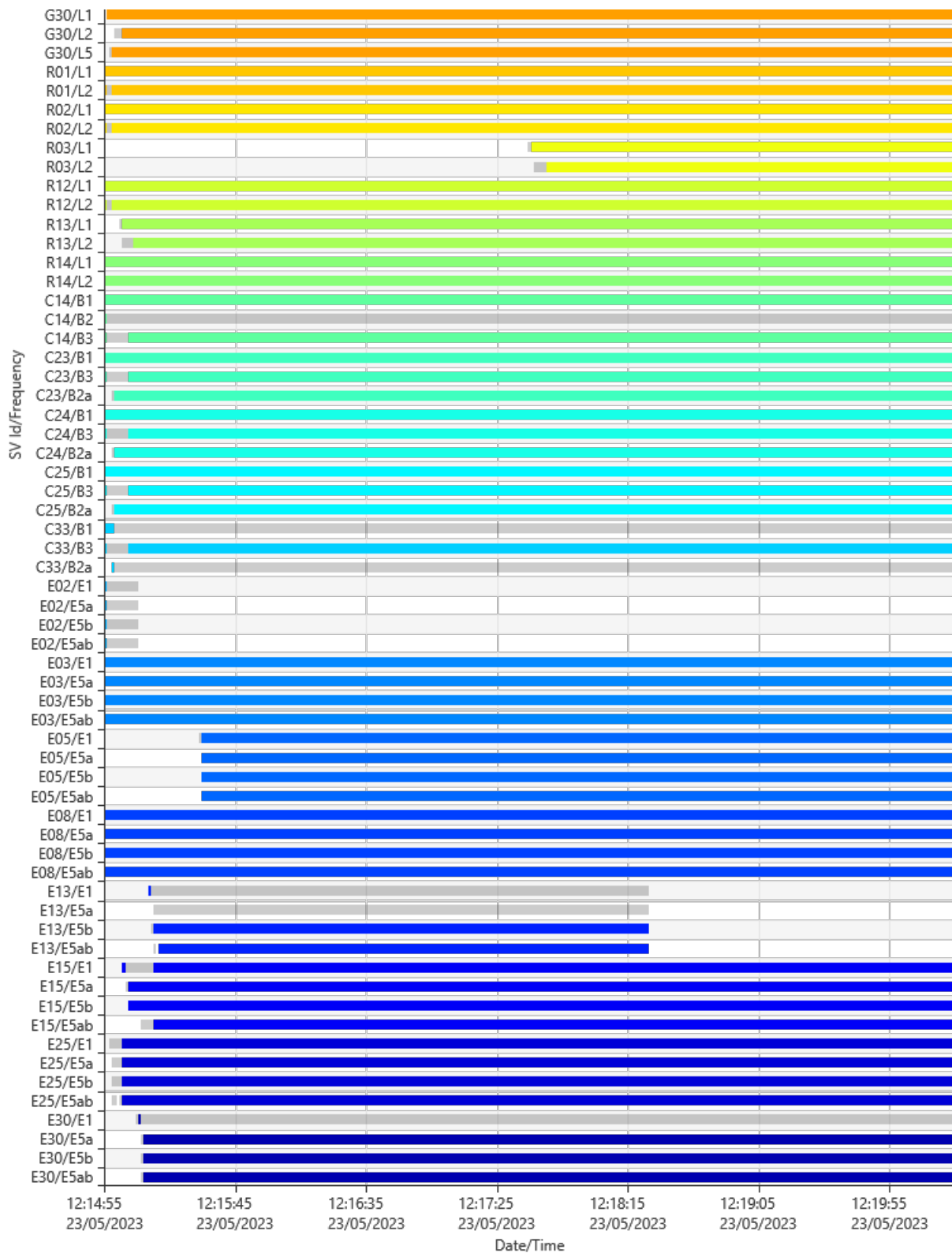
## SVs Tracked



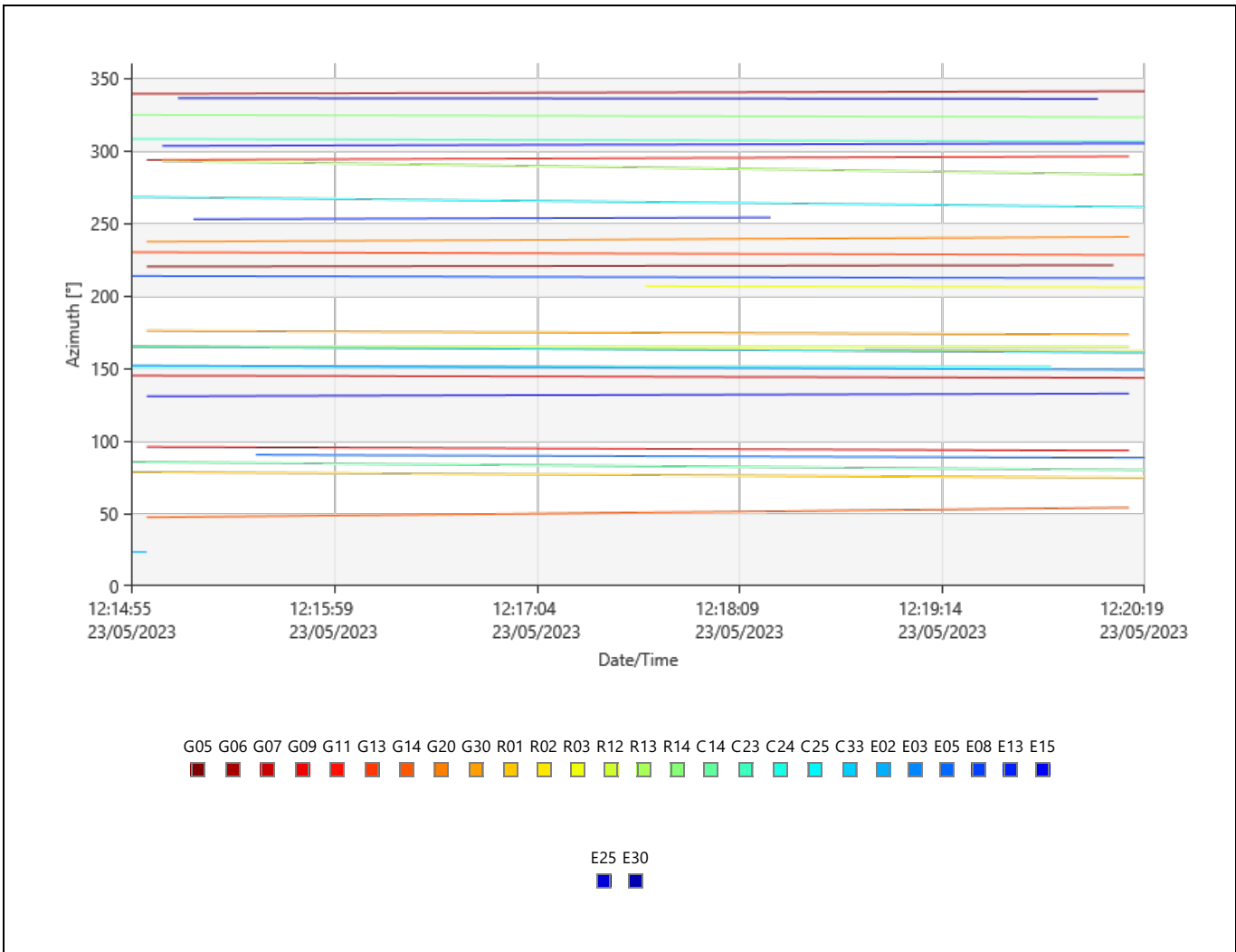
## Signals Tracked



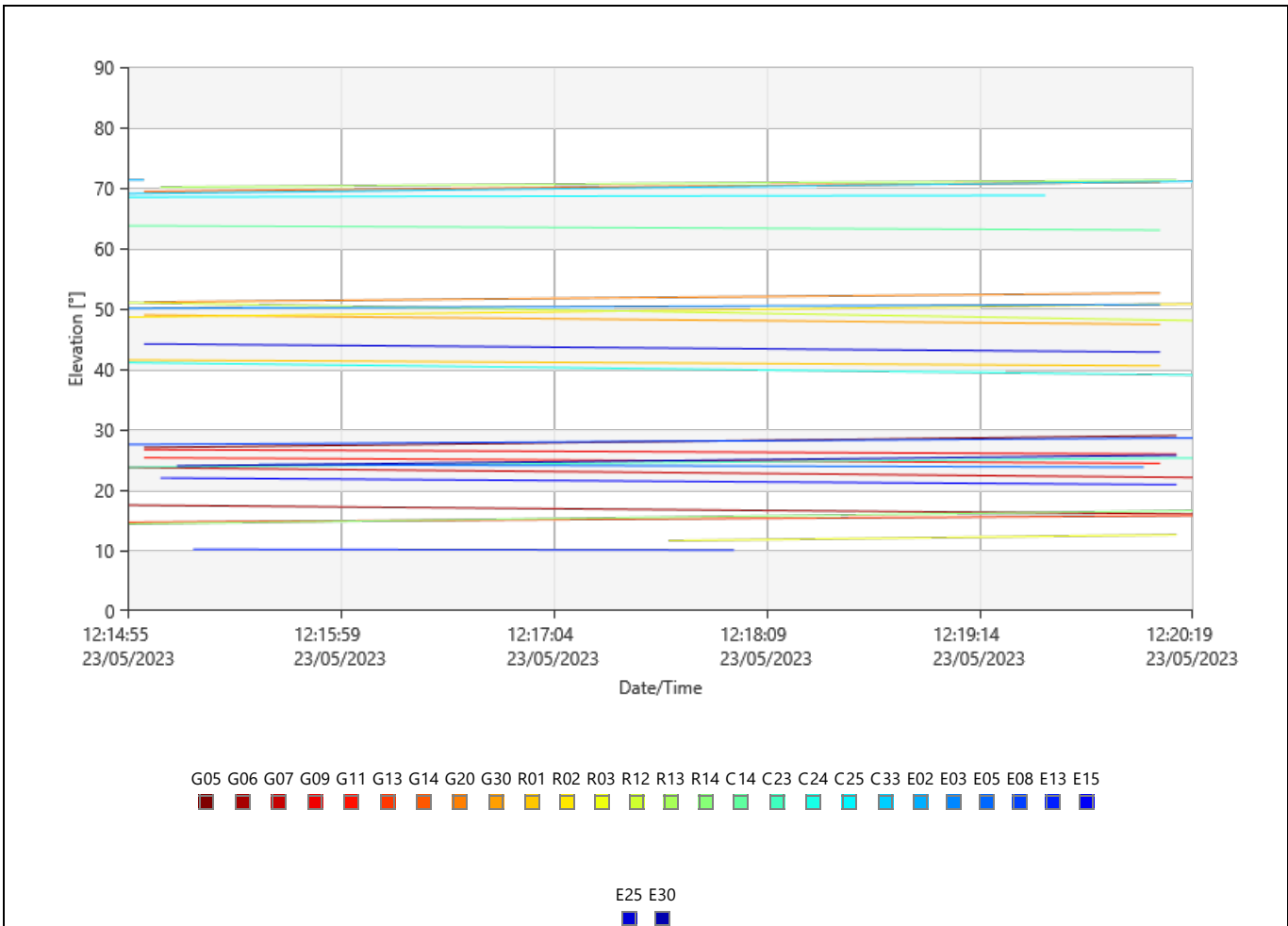




Azimuth



**Elevation**





Status	From Epoch	To Epoch	Duration
<b>Not fixed</b>	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>00:00:01</b>
Fixed	23/05/2023 12:14:56	23/05/2023 12:20:20	00:05:24

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:59</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:15:01</b>	<b>Rejected</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:20:20</b>	<b>No Data</b>

### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L5	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

### G09

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:59</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:15:01</b>	<b>Rejected</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:20:20</b>	<b>No Data</b>
L5	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:57</b>	<b>No Data</b>
	<b>23/05/2023 12:14:57</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

### G11

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:59</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:15:01</b>	<b>Rejected</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
L5	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:20:20</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:57</b>	<b>No Data</b>
	<b>23/05/2023 12:14:57</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:59</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:15:01</b>	<b>Rejected</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
L5	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:20:20</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:57</b>	<b>No Data</b>
	<b>23/05/2023 12:14:57</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:56</b>	<b>No Data</b>
	23/05/2023 12:14:56	23/05/2023 12:20:20	Used
L2	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:59</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:15:01</b>	<b>No Data</b>
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:15:01</b>	<b>Rejected</b>
	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:15:02</b>	<b>Rejected</b>
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
L5	<b>23/05/2023 12:15:01</b>	<b>23/05/2023 12:20:20</b>	<b>No Data</b>
	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:57</b>	<b>No Data</b>
	<b>23/05/2023 12:14:57</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:14:58</b>	<b>Rejected</b>
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:17:37	No Data
	23/05/2023 12:17:37	23/05/2023 12:17:38	Rejected
	23/05/2023 12:17:38	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:17:39	No Data
	23/05/2023 12:17:39	23/05/2023 12:17:44	Rejected
	23/05/2023 12:17:44	23/05/2023 12:20:20	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	23/05/2023 12:14:56	23/05/2023 12:14:58	Rejected
	23/05/2023 12:14:58	23/05/2023 12:20:20	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:15:01	No Data
	23/05/2023 12:15:01	23/05/2023 12:15:02	Rejected
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:15:02	No Data
	23/05/2023 12:15:02	23/05/2023 12:15:06	Rejected
	23/05/2023 12:15:06	23/05/2023 12:20:20	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
L2	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	23/05/2023 12:14:56	23/05/2023 12:15:08	Rejected
	23/05/2023 12:15:08	23/05/2023 12:20:20	No Data
E5a	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	23/05/2023 12:14:56	23/05/2023 12:15:08	Rejected
	23/05/2023 12:15:08	23/05/2023 12:20:20	No Data
E5b	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	23/05/2023 12:14:56	23/05/2023 12:15:08	Rejected
	23/05/2023 12:15:08	23/05/2023 12:20:20	No Data
E5ab	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	23/05/2023 12:14:56	23/05/2023 12:15:08	Rejected
	23/05/2023 12:15:08	23/05/2023 12:20:20	No Data

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
E5a	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
E5ab	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:15:31	No Data
	23/05/2023 12:15:31	23/05/2023 12:15:32	Rejected
	23/05/2023 12:15:32	23/05/2023 12:20:20	Used
E5a	23/05/2023 12:14:55	23/05/2023 12:15:32	No Data
	23/05/2023 12:15:32	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:15:32	No Data
	23/05/2023 12:15:32	23/05/2023 12:20:20	Used
E5ab	23/05/2023 12:14:55	23/05/2023 12:15:32	No Data
	23/05/2023 12:15:32	23/05/2023 12:20:20	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
E5a	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:20:20	Used

E5ab	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
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E13

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:15:12	No Data
	23/05/2023 12:15:12	23/05/2023 12:15:13	Used
	23/05/2023 12:15:13	23/05/2023 12:18:23	Rejected
	23/05/2023 12:18:23	23/05/2023 12:20:20	No Data
E5a	23/05/2023 12:14:55	23/05/2023 12:15:14	No Data
	23/05/2023 12:15:14	23/05/2023 12:18:23	Rejected
	23/05/2023 12:18:23	23/05/2023 12:20:20	No Data
E5b	23/05/2023 12:14:55	23/05/2023 12:15:13	No Data
	23/05/2023 12:15:13	23/05/2023 12:15:14	Rejected
	23/05/2023 12:15:14	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:20:20	No Data
E5ab	23/05/2023 12:14:55	23/05/2023 12:15:14	No Data
	23/05/2023 12:15:14	23/05/2023 12:15:15	Rejected
	23/05/2023 12:15:15	23/05/2023 12:15:16	No Data
	23/05/2023 12:15:16	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:20:20	No Data

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:15:02	No Data
	23/05/2023 12:15:02	23/05/2023 12:15:03	Used
	23/05/2023 12:15:03	23/05/2023 12:15:14	Rejected
	23/05/2023 12:15:14	23/05/2023 12:20:20	Used
E5a	23/05/2023 12:14:55	23/05/2023 12:15:03	No Data
	23/05/2023 12:15:03	23/05/2023 12:15:04	Rejected
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:15:04	No Data
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
E5ab	23/05/2023 12:14:55	23/05/2023 12:15:09	No Data
	23/05/2023 12:15:09	23/05/2023 12:15:14	Rejected
	23/05/2023 12:15:14	23/05/2023 12:20:20	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:14:57	No Data
	23/05/2023 12:14:57	23/05/2023 12:15:02	Rejected
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
E5a	23/05/2023 12:14:55	23/05/2023 12:14:58	No Data
	23/05/2023 12:14:58	23/05/2023 12:15:02	Rejected
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:14:58	No Data
	23/05/2023 12:14:58	23/05/2023 12:15:02	Rejected
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used
E5ab	23/05/2023 12:14:55	23/05/2023 12:14:58	No Data
	23/05/2023 12:14:58	23/05/2023 12:15:00	Rejected
	23/05/2023 12:15:00	23/05/2023 12:15:01	No Data
	23/05/2023 12:15:01	23/05/2023 12:15:02	Rejected
	23/05/2023 12:15:02	23/05/2023 12:20:20	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:14:55	23/05/2023 12:15:07	No Data
	23/05/2023 12:15:07	23/05/2023 12:15:08	Rejected
	23/05/2023 12:15:08	23/05/2023 12:15:09	Used
	23/05/2023 12:15:09	23/05/2023 12:20:20	Rejected
E5a	23/05/2023 12:14:55	23/05/2023 12:15:09	No Data
	23/05/2023 12:15:09	23/05/2023 12:15:10	Rejected
	23/05/2023 12:15:10	23/05/2023 12:20:20	Used
E5b	23/05/2023 12:14:55	23/05/2023 12:15:09	No Data
	23/05/2023 12:15:09	23/05/2023 12:15:10	Rejected
	23/05/2023 12:15:10	23/05/2023 12:20:20	Used
E5ab	23/05/2023 12:14:55	23/05/2023 12:15:09	No Data
	23/05/2023 12:15:09	23/05/2023 12:15:10	Rejected
	23/05/2023 12:15:10	23/05/2023 12:20:20	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
B2	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:20:20</b>	<b>Rejected</b>
B3	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:15:04</b>	<b>Rejected</b>
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
B3	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:15:04</b>	<b>Rejected</b>
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
B2a	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:58</b>	<b>No Data</b>
	<b>23/05/2023 12:14:58</b>	<b>23/05/2023 12:14:59</b>	<b>Rejected</b>
	23/05/2023 12:14:59	23/05/2023 12:20:20	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
B3	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:15:04</b>	<b>Rejected</b>
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
B2a	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:58</b>	<b>No Data</b>
	<b>23/05/2023 12:14:58</b>	<b>23/05/2023 12:14:59</b>	<b>Rejected</b>
	23/05/2023 12:14:59	23/05/2023 12:20:20	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:14:55	23/05/2023 12:20:20	Used
B3	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:15:04</b>	<b>Rejected</b>
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
B2a	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:58</b>	<b>No Data</b>
	<b>23/05/2023 12:14:58</b>	<b>23/05/2023 12:14:59</b>	<b>Rejected</b>
	23/05/2023 12:14:59	23/05/2023 12:20:20	Used

C33

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:14:55	23/05/2023 12:14:59	Used
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:20:20</b>	<b>Rejected</b>
B3	23/05/2023 12:14:55	23/05/2023 12:14:56	Used
	<b>23/05/2023 12:14:56</b>	<b>23/05/2023 12:15:04</b>	<b>Rejected</b>
	23/05/2023 12:15:04	23/05/2023 12:20:20	Used
B2a	<b>23/05/2023 12:14:55</b>	<b>23/05/2023 12:14:58</b>	<b>No Data</b>
	23/05/2023 12:14:58	23/05/2023 12:14:59	Used
	<b>23/05/2023 12:14:59</b>	<b>23/05/2023 12:20:20</b>	<b>Rejected</b>

Cycle Slips

Slip Count: 12

SV	Frequency	Epoch	Slip Value	Flag
E08	E1	23/05/2023 12:14:56	-	RIA
	E5a	23/05/2023 12:14:56	-	RIA
	E5b	23/05/2023 12:14:56	-	RIA
	E5ab	23/05/2023 12:14:56	-	RIA
E15	E1	23/05/2023 12:15:14	-	Flagged
	E5a	23/05/2023 12:15:14	-	Flagged
	E5b	23/05/2023 12:15:14	-	Flagged
	E5ab	23/05/2023 12:15:14	-	RIA
E25	E1	23/05/2023 12:15:02	-	RIA
	E5a	23/05/2023 12:15:02	-	RIA
	E5b	23/05/2023 12:15:02	-	RIA
E13	E5ab	23/05/2023 12:15:16	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.



## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-2A

### Processing Parameters (23/05/2023 12:15:32 - 23/05/2023 12:21:41)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-2A

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### Acquisition

Start Time - End Time:	23/05/2023 12:15:32 - 23/05/2023 12:21:41
Duration:	00:06:09

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-2A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1	L2	L1	L2
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East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-2A		Reference - MOQ01058	Rover - PAF-CU2-2A
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 01' 46.92619" S	Easting:	318,107.441 m	315,202.795 m
WGS84 Longitude:	-	70° 44' 10.18483" W	Northing:	8,117,307.121 m	8,116,339.046 m
WGS84 Ellip. Height:	-	3,404.815 m	Ortho. Height:	3,897.429 m	3,363.666 m
WGS84 Cartesian X:	-	2,013,652.614 m			
WGS84 Cartesian Y:	-	-5,761,744.516 m			
WGS84 Cartesian Z:	-	-1,856,973.761 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 30.65717"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 38.49438"	SD ΔLongitude:	0.000 m
ΔHeight:	-534.096 m	SD ΔHeight:	0.000 m
ΔX:	-3,011.018 m	SD ΔX:	0.000 m
ΔY:	-219.588 m	SD ΔY:	0.000 m
ΔZ:	-745.286 m	SD ΔZ:	0.000 m
Slope Dist.:	3,109.646 m	SD Slope Dist.:	0.000 m

M0:	0.410 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000008	CQ 3D:	0.000 m
Q22:	0.00000034		
Q13:	-0.00000003		
Q23:	0.00000011		
Q33:	0.00000013		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.1 - 3.3	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.2 - 1.8	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.9	Beidou SVs:	4/4
		VDOP:	1.0 - 1.6	Galileo SVs:	7/7
				QZSS SVs:	-

### Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

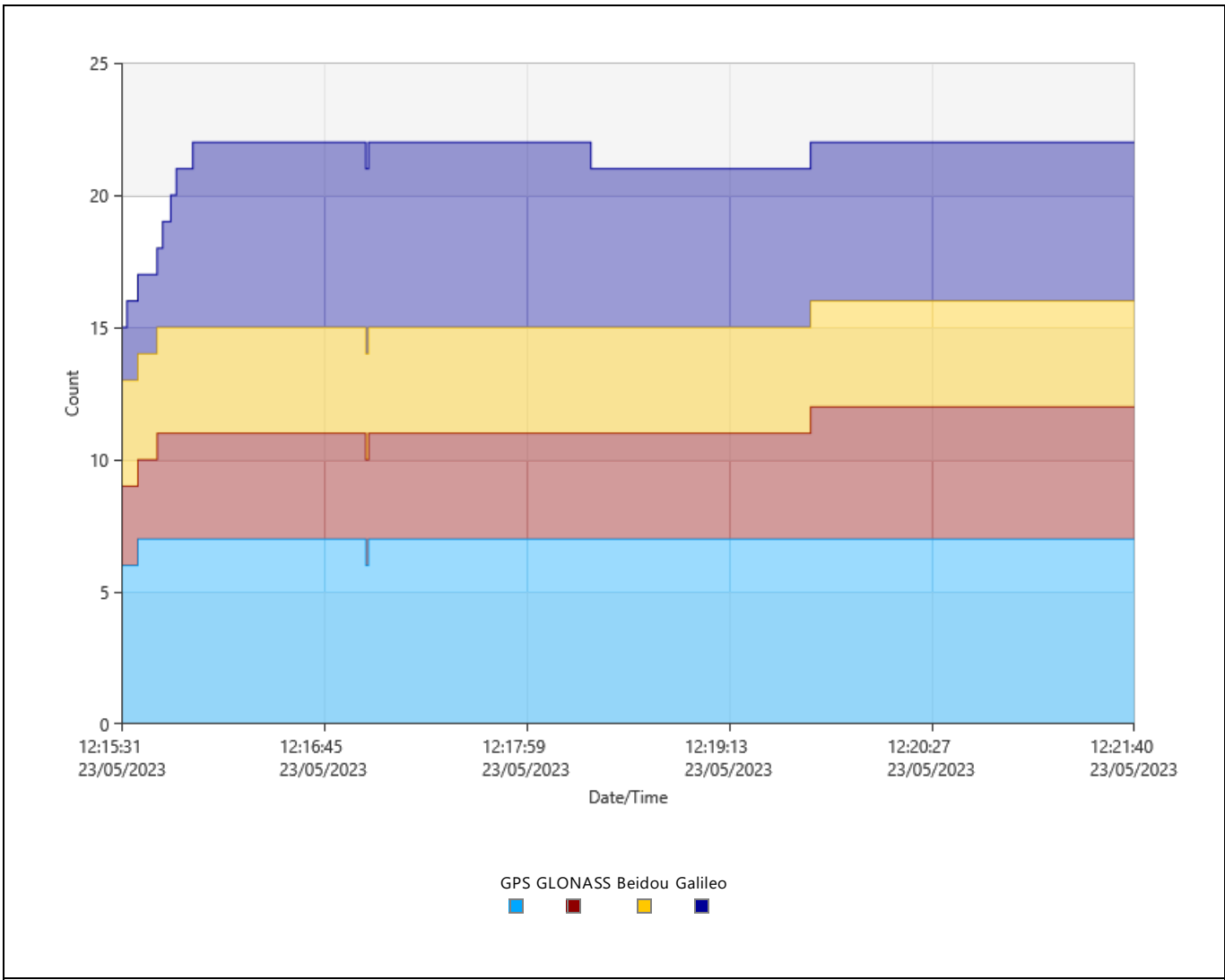
## Processing Info (23/05/2023 12:15:32 - 23/05/2023 12:21:41)

Processed Date/Time: 09/06/2023 17:54:21

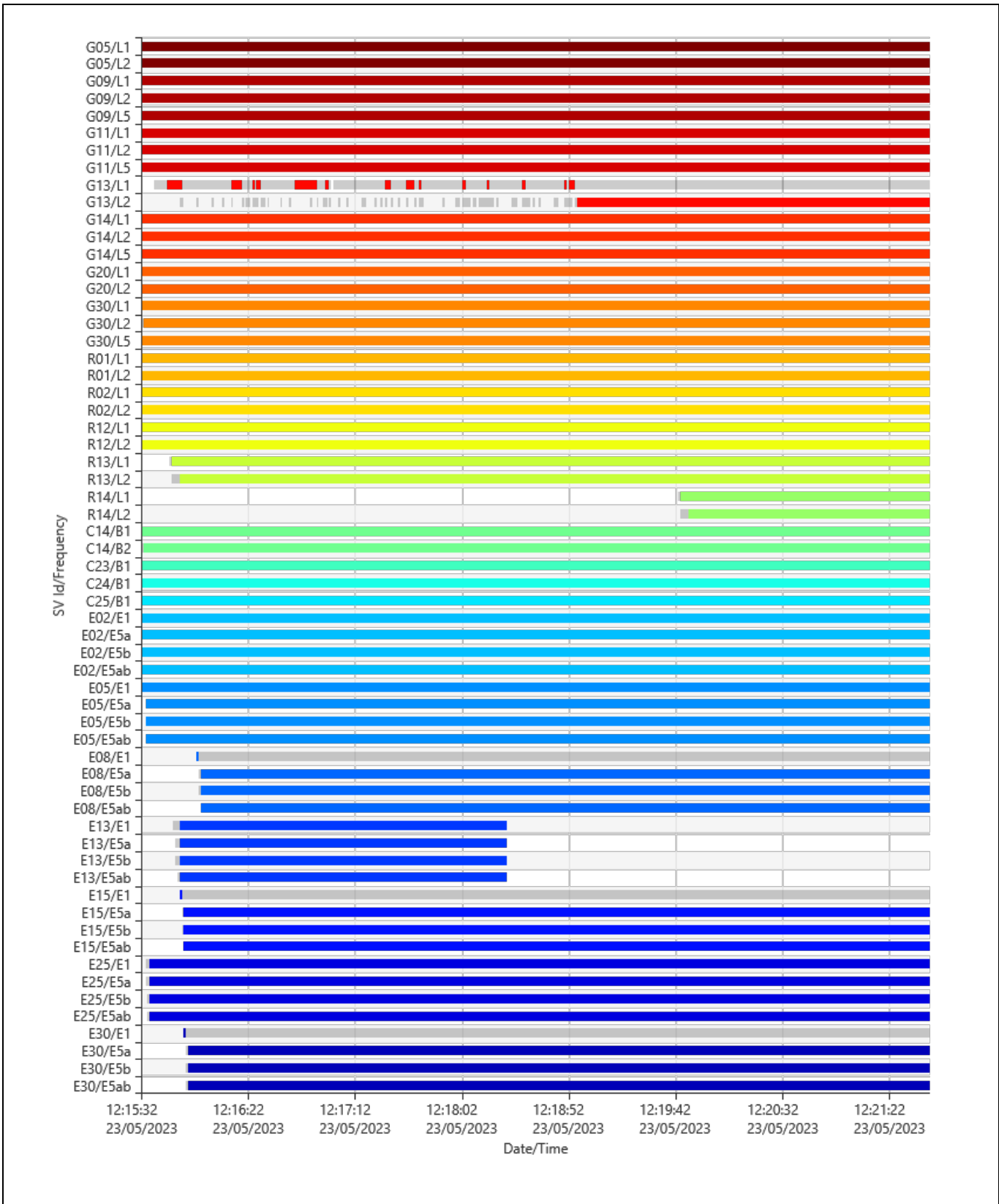
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R12 R13 R14	-
Beidou	C14 C23 C24 C25	-
Galileo	E02 E05 E08 E13 E15 E25 E30	-

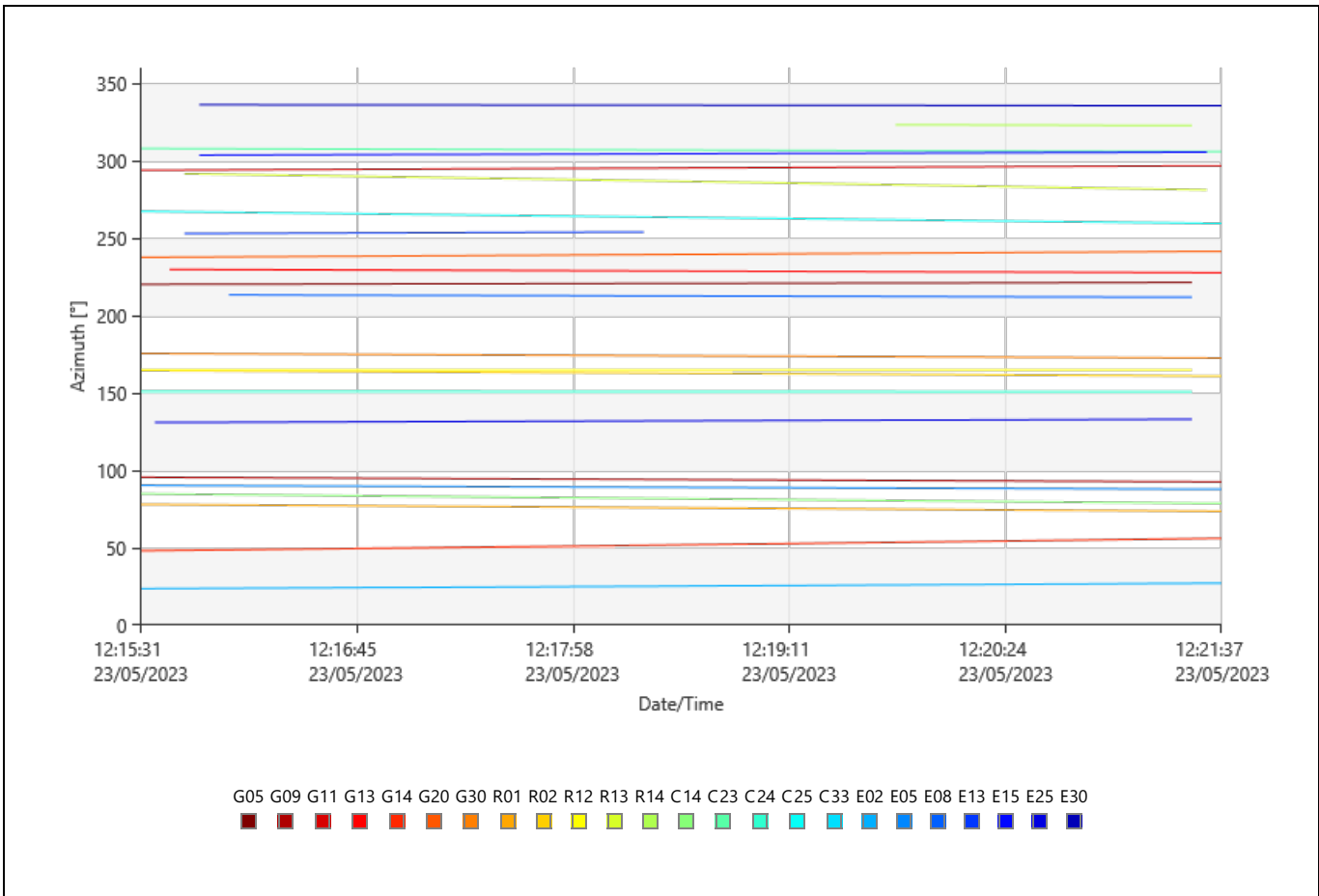
## SVs Tracked



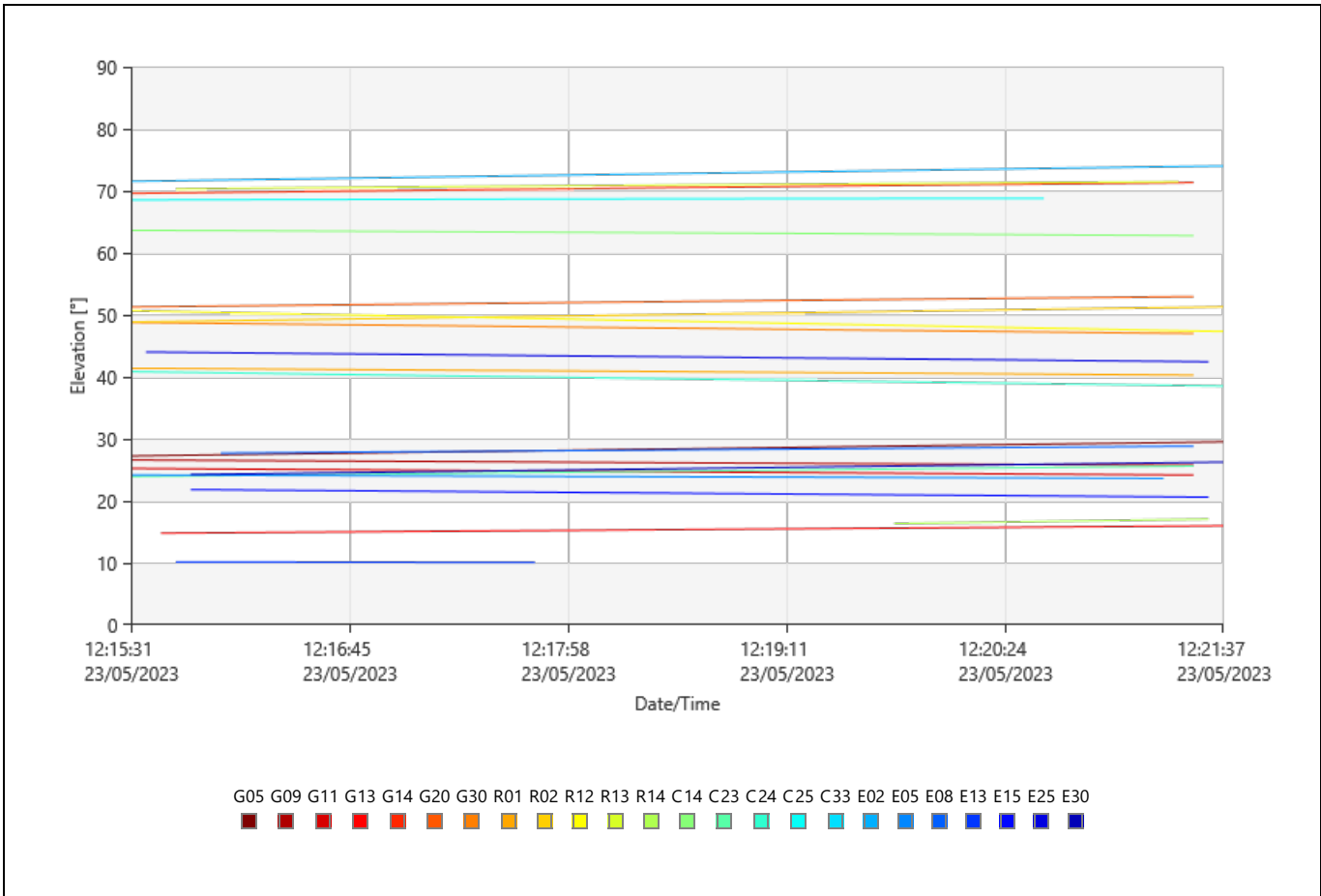
**Signals Tracked**



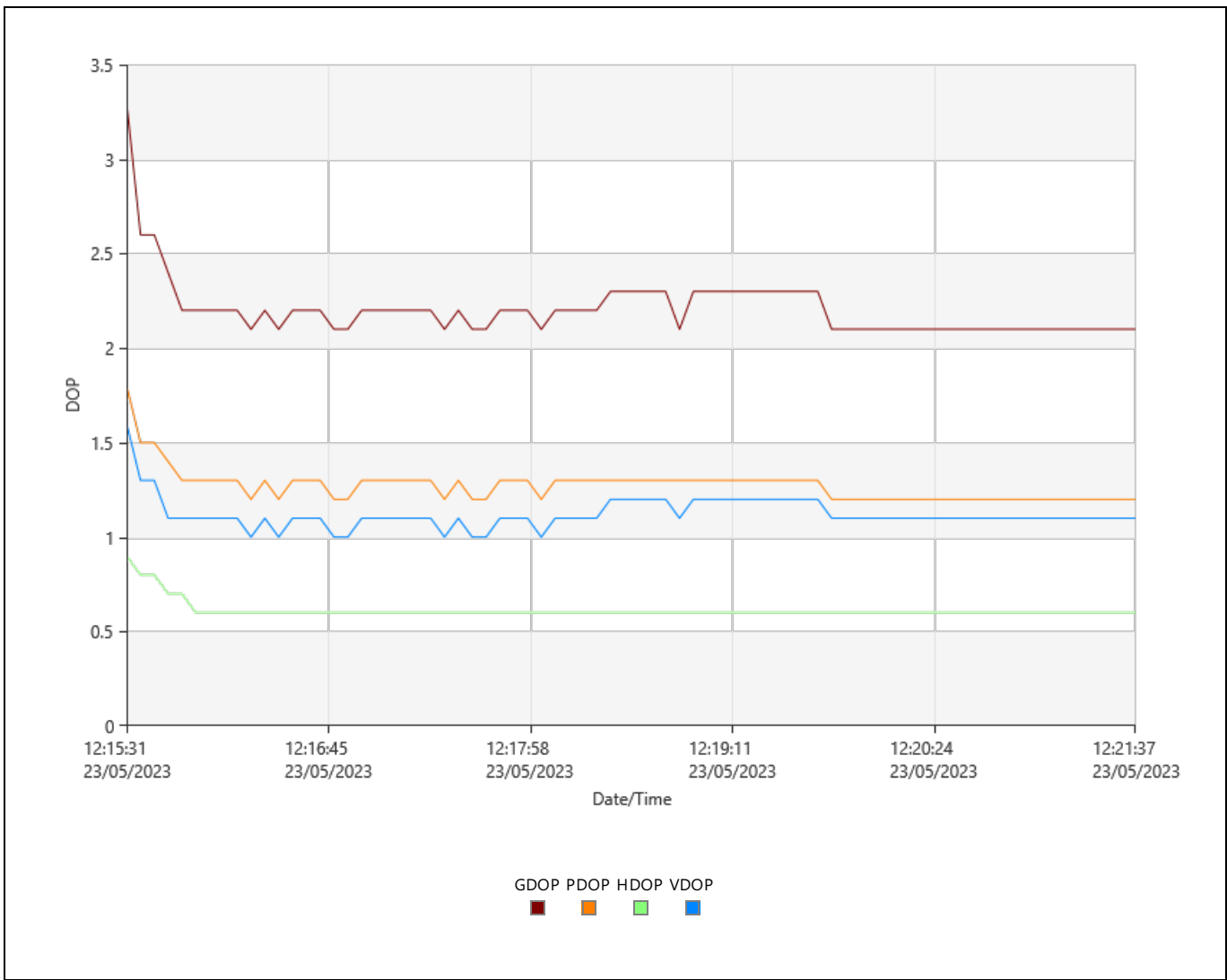
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 370

#### GPS Observations

Frequency	Used	Rejected
L1	2,264	319
L2	2,385	69
L5	1,480	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,584	2
L2	1,576	8

#### Beidou Observations

Frequency	Used	Rejected
B1	1,480	0
B2	369	1

#### Galileo Observations

Frequency	Used	Rejected
E1	1,262	1,048
E5a	2,297	7
E5b	2,297	6
E5ab	2,297	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	25	10	5	28
Total	50	10	5	33
Independently fixed	46	46	46	46
Possible independently fixed	46	46	46	46

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	98.51	97.22	100.00	100.00	100.00	100.00	100.00	99.83	99.83	99.91	100.00
Not fixed	1.49	2.78	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.09	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 12:15:32	23/05/2023 12:21:41	00:06:09

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

#### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L5	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L5	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:15:38	No Data
	23/05/2023 12:15:38	23/05/2023 12:15:44	Rejected
	23/05/2023 12:15:44	23/05/2023 12:15:51	Used
	23/05/2023 12:15:51	23/05/2023 12:16:14	Rejected
	23/05/2023 12:16:14	23/05/2023 12:16:19	Used
	23/05/2023 12:16:19	23/05/2023 12:16:24	Rejected
	23/05/2023 12:16:24	23/05/2023 12:16:25	Used
	23/05/2023 12:16:25	23/05/2023 12:16:26	Rejected
	23/05/2023 12:16:26	23/05/2023 12:16:28	Used
	23/05/2023 12:16:28	23/05/2023 12:16:44	Rejected
	23/05/2023 12:16:44	23/05/2023 12:16:54	Used
	23/05/2023 12:16:54	23/05/2023 12:16:58	Rejected
	23/05/2023 12:16:58	23/05/2023 12:17:00	Used
	23/05/2023 12:17:00	23/05/2023 12:17:01	Rejected
	23/05/2023 12:17:01	23/05/2023 12:17:02	No Data
	23/05/2023 12:17:02	23/05/2023 12:17:26	Rejected
	23/05/2023 12:17:26	23/05/2023 12:17:29	Used
	23/05/2023 12:17:29	23/05/2023 12:17:36	Rejected
	23/05/2023 12:17:36	23/05/2023 12:17:40	Used
	23/05/2023 12:17:40	23/05/2023 12:17:42	Rejected
23/05/2023 12:17:42	23/05/2023 12:17:43	Used	
23/05/2023 12:17:43	23/05/2023 12:18:02	Rejected	
23/05/2023 12:18:02	23/05/2023 12:18:04	Used	
23/05/2023 12:18:04	23/05/2023 12:18:14	Rejected	

23/05/2023 12:18:14	23/05/2023 12:18:15	Used
<b>23/05/2023 12:18:15</b>	<b>23/05/2023 12:18:30</b>	<b>Rejected</b>
23/05/2023 12:18:30	23/05/2023 12:18:32	Used
<b>23/05/2023 12:18:32</b>	<b>23/05/2023 12:18:50</b>	<b>Rejected</b>
23/05/2023 12:18:50	23/05/2023 12:18:51	Used
<b>23/05/2023 12:18:51</b>	<b>23/05/2023 12:18:52</b>	<b>Rejected</b>
23/05/2023 12:18:52	23/05/2023 12:18:55	Used
<b>23/05/2023 12:18:55</b>	<b>23/05/2023 12:21:41</b>	<b>Rejected</b>
<b>23/05/2023 12:15:32</b>	<b>23/05/2023 12:15:50</b>	<b>No Data</b>
<b>23/05/2023 12:15:50</b>	<b>23/05/2023 12:15:52</b>	<b>Rejected</b>
<b>23/05/2023 12:15:52</b>	<b>23/05/2023 12:15:58</b>	<b>No Data</b>
<b>23/05/2023 12:15:58</b>	<b>23/05/2023 12:15:59</b>	<b>Rejected</b>
<b>23/05/2023 12:15:59</b>	<b>23/05/2023 12:16:05</b>	<b>No Data</b>
<b>23/05/2023 12:16:05</b>	<b>23/05/2023 12:16:06</b>	<b>Rejected</b>
<b>23/05/2023 12:16:06</b>	<b>23/05/2023 12:16:10</b>	<b>No Data</b>
<b>23/05/2023 12:16:10</b>	<b>23/05/2023 12:16:11</b>	<b>Rejected</b>
<b>23/05/2023 12:16:11</b>	<b>23/05/2023 12:16:14</b>	<b>No Data</b>
<b>23/05/2023 12:16:14</b>	<b>23/05/2023 12:16:15</b>	<b>Rejected</b>
<b>23/05/2023 12:16:15</b>	<b>23/05/2023 12:16:19</b>	<b>No Data</b>
<b>23/05/2023 12:16:19</b>	<b>23/05/2023 12:16:20</b>	<b>Rejected</b>
<b>23/05/2023 12:16:20</b>	<b>23/05/2023 12:16:21</b>	<b>No Data</b>
<b>23/05/2023 12:16:21</b>	<b>23/05/2023 12:16:23</b>	<b>Rejected</b>
<b>23/05/2023 12:16:23</b>	<b>23/05/2023 12:16:24</b>	<b>No Data</b>
<b>23/05/2023 12:16:24</b>	<b>23/05/2023 12:16:27</b>	<b>Rejected</b>
<b>23/05/2023 12:16:27</b>	<b>23/05/2023 12:16:28</b>	<b>No Data</b>
<b>23/05/2023 12:16:28</b>	<b>23/05/2023 12:16:30</b>	<b>Rejected</b>
<b>23/05/2023 12:16:30</b>	<b>23/05/2023 12:16:31</b>	<b>No Data</b>
<b>23/05/2023 12:16:31</b>	<b>23/05/2023 12:16:32</b>	<b>Rejected</b>
<b>23/05/2023 12:16:32</b>	<b>23/05/2023 12:16:37</b>	<b>No Data</b>
<b>23/05/2023 12:16:37</b>	<b>23/05/2023 12:16:38</b>	<b>Rejected</b>
<b>23/05/2023 12:16:38</b>	<b>23/05/2023 12:16:41</b>	<b>No Data</b>
<b>23/05/2023 12:16:41</b>	<b>23/05/2023 12:16:42</b>	<b>Rejected</b>
<b>23/05/2023 12:16:42</b>	<b>23/05/2023 12:16:51</b>	<b>No Data</b>
<b>23/05/2023 12:16:51</b>	<b>23/05/2023 12:16:52</b>	<b>Rejected</b>
<b>23/05/2023 12:16:52</b>	<b>23/05/2023 12:16:54</b>	<b>No Data</b>
<b>23/05/2023 12:16:54</b>	<b>23/05/2023 12:16:55</b>	<b>Rejected</b>
<b>23/05/2023 12:16:55</b>	<b>23/05/2023 12:16:57</b>	<b>No Data</b>
<b>23/05/2023 12:16:57</b>	<b>23/05/2023 12:16:59</b>	<b>Rejected</b>
<b>23/05/2023 12:16:59</b>	<b>23/05/2023 12:17:00</b>	<b>No Data</b>
<b>23/05/2023 12:17:00</b>	<b>23/05/2023 12:17:01</b>	<b>Rejected</b>
<b>23/05/2023 12:17:01</b>	<b>23/05/2023 12:17:04</b>	<b>No Data</b>
<b>23/05/2023 12:17:04</b>	<b>23/05/2023 12:17:05</b>	<b>Rejected</b>
<b>23/05/2023 12:17:05</b>	<b>23/05/2023 12:17:08</b>	<b>No Data</b>
<b>23/05/2023 12:17:08</b>	<b>23/05/2023 12:17:09</b>	<b>Rejected</b>
<b>23/05/2023 12:17:09</b>	<b>23/05/2023 12:17:15</b>	<b>No Data</b>
<b>23/05/2023 12:17:15</b>	<b>23/05/2023 12:17:17</b>	<b>Rejected</b>
<b>23/05/2023 12:17:17</b>	<b>23/05/2023 12:17:21</b>	<b>No Data</b>
<b>23/05/2023 12:17:21</b>	<b>23/05/2023 12:17:22</b>	<b>Rejected</b>
<b>23/05/2023 12:17:22</b>	<b>23/05/2023 12:17:24</b>	<b>No Data</b>
<b>23/05/2023 12:17:24</b>	<b>23/05/2023 12:17:25</b>	<b>Rejected</b>
<b>23/05/2023 12:17:25</b>	<b>23/05/2023 12:17:26</b>	<b>No Data</b>
<b>23/05/2023 12:17:26</b>	<b>23/05/2023 12:17:27</b>	<b>Rejected</b>
<b>23/05/2023 12:17:27</b>	<b>23/05/2023 12:17:29</b>	<b>No Data</b>
<b>23/05/2023 12:17:29</b>	<b>23/05/2023 12:17:30</b>	<b>Rejected</b>
<b>23/05/2023 12:17:30</b>	<b>23/05/2023 12:17:32</b>	<b>No Data</b>
<b>23/05/2023 12:17:32</b>	<b>23/05/2023 12:17:33</b>	<b>Rejected</b>
<b>23/05/2023 12:17:33</b>	<b>23/05/2023 12:17:36</b>	<b>No Data</b>
<b>23/05/2023 12:17:36</b>	<b>23/05/2023 12:17:37</b>	<b>Rejected</b>
<b>23/05/2023 12:17:37</b>	<b>23/05/2023 12:17:40</b>	<b>No Data</b>
<b>23/05/2023 12:17:40</b>	<b>23/05/2023 12:17:41</b>	<b>Rejected</b>
<b>23/05/2023 12:17:41</b>	<b>23/05/2023 12:17:42</b>	<b>No Data</b>
<b>23/05/2023 12:17:42</b>	<b>23/05/2023 12:17:44</b>	<b>Rejected</b>
<b>23/05/2023 12:17:44</b>	<b>23/05/2023 12:17:53</b>	<b>No Data</b>
<b>23/05/2023 12:17:53</b>	<b>23/05/2023 12:17:54</b>	<b>Rejected</b>
<b>23/05/2023 12:17:54</b>	<b>23/05/2023 12:17:59</b>	<b>No Data</b>
<b>23/05/2023 12:17:59</b>	<b>23/05/2023 12:18:01</b>	<b>Rejected</b>
<b>23/05/2023 12:18:01</b>	<b>23/05/2023 12:18:02</b>	<b>No Data</b>
<b>23/05/2023 12:18:02</b>	<b>23/05/2023 12:18:06</b>	<b>Rejected</b>
<b>23/05/2023 12:18:06</b>	<b>23/05/2023 12:18:07</b>	<b>No Data</b>
<b>23/05/2023 12:18:07</b>	<b>23/05/2023 12:18:09</b>	<b>Rejected</b>
<b>23/05/2023 12:18:09</b>	<b>23/05/2023 12:18:10</b>	<b>No Data</b>
<b>23/05/2023 12:18:10</b>	<b>23/05/2023 12:18:17</b>	<b>Rejected</b>

L2



	23/05/2023 12:18:17	23/05/2023 12:18:18	No Data
	23/05/2023 12:18:18	23/05/2023 12:18:19	Rejected
	23/05/2023 12:18:19	23/05/2023 12:18:25	No Data
	23/05/2023 12:18:25	23/05/2023 12:18:28	Rejected
	23/05/2023 12:18:28	23/05/2023 12:18:30	No Data
	23/05/2023 12:18:30	23/05/2023 12:18:34	Rejected
	23/05/2023 12:18:34	23/05/2023 12:18:35	No Data
	23/05/2023 12:18:35	23/05/2023 12:18:36	Rejected
	23/05/2023 12:18:36	23/05/2023 12:18:38	No Data
	23/05/2023 12:18:38	23/05/2023 12:18:39	Rejected
	23/05/2023 12:18:39	23/05/2023 12:18:45	No Data
	23/05/2023 12:18:45	23/05/2023 12:18:47	Rejected
	23/05/2023 12:18:47	23/05/2023 12:18:50	No Data
	23/05/2023 12:18:50	23/05/2023 12:18:54	Rejected
	23/05/2023 12:18:54	23/05/2023 12:18:55	No Data
	23/05/2023 12:18:55	23/05/2023 12:18:56	Rejected
	23/05/2023 12:18:56	23/05/2023 12:21:41	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L5	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:15:33	No Data
	23/05/2023 12:15:32	23/05/2023 12:15:33	Rejected
	23/05/2023 12:15:33	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:33	23/05/2023 12:21:41	No Data
	23/05/2023 12:15:33	23/05/2023 12:21:41	No Data
L5	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:15:45	No Data
	23/05/2023 12:15:45	23/05/2023 12:15:46	Rejected
	23/05/2023 12:15:46	23/05/2023 12:21:41	Used
L2	23/05/2023 12:15:32	23/05/2023 12:15:46	No Data
	23/05/2023 12:15:46	23/05/2023 12:15:50	Rejected
	23/05/2023 12:15:50	23/05/2023 12:21:41	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:15:32	23/05/2023 12:19:43	No Data
	23/05/2023 12:19:43	23/05/2023 12:19:44	Rejected
	23/05/2023 12:19:44	23/05/2023 12:21:41	Used
	23/05/2023 12:15:32	23/05/2023 12:19:44	No Data

L2	23/05/2023 12:19:44	23/05/2023 12:19:48	Rejected
	23/05/2023 12:19:48	23/05/2023 12:21:41	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
E5a	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
E5a	23/05/2023 12:15:32	23/05/2023 12:15:34	No Data
	23/05/2023 12:15:34	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:15:34	No Data
	23/05/2023 12:15:34	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:15:34	No Data
	23/05/2023 12:15:34	23/05/2023 12:21:41	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:15:58	No Data
	23/05/2023 12:15:58	23/05/2023 12:15:59	Used
	23/05/2023 12:15:59	23/05/2023 12:21:41	Rejected
E5a	23/05/2023 12:15:32	23/05/2023 12:15:59	No Data
	23/05/2023 12:15:59	23/05/2023 12:16:00	Rejected
	23/05/2023 12:16:00	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:15:59	No Data
	23/05/2023 12:15:59	23/05/2023 12:16:00	Rejected
	23/05/2023 12:16:00	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:16:00	No Data
	23/05/2023 12:16:00	23/05/2023 12:21:41	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:15:47	No Data
	23/05/2023 12:15:47	23/05/2023 12:15:50	Rejected
	23/05/2023 12:15:50	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:21:41	No Data
E5a	23/05/2023 12:15:32	23/05/2023 12:15:48	No Data
	23/05/2023 12:15:48	23/05/2023 12:15:50	Rejected
	23/05/2023 12:15:50	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:21:41	No Data
E5b	23/05/2023 12:15:32	23/05/2023 12:15:48	No Data
	23/05/2023 12:15:48	23/05/2023 12:15:50	Rejected
	23/05/2023 12:15:50	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:21:41	No Data
E5ab	23/05/2023 12:15:32	23/05/2023 12:15:49	No Data
	23/05/2023 12:15:49	23/05/2023 12:15:50	Rejected
	23/05/2023 12:15:50	23/05/2023 12:18:23	Used
	23/05/2023 12:18:23	23/05/2023 12:21:41	No Data

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:15:50	No Data
	23/05/2023 12:15:50	23/05/2023 12:15:51	Used
	23/05/2023 12:15:51	23/05/2023 12:21:41	Rejected
E5a	23/05/2023 12:15:32	23/05/2023 12:15:51	No Data
	23/05/2023 12:15:51	23/05/2023 12:15:52	Rejected
	23/05/2023 12:15:52	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:15:51	No Data
	23/05/2023 12:15:51	23/05/2023 12:15:52	Rejected
	23/05/2023 12:15:52	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:15:52	No Data
	23/05/2023 12:15:52	23/05/2023 12:21:41	Used

E25

Frequency	From Epoch	To Epoch	Status

E1	23/05/2023 12:15:32	23/05/2023 12:15:34	No Data
	23/05/2023 12:15:34	23/05/2023 12:15:36	Rejected
	23/05/2023 12:15:36	23/05/2023 12:21:41	Used
E5a	23/05/2023 12:15:32	23/05/2023 12:15:34	No Data
	23/05/2023 12:15:34	23/05/2023 12:15:36	Rejected
	23/05/2023 12:15:36	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:15:35	No Data
	23/05/2023 12:15:35	23/05/2023 12:15:36	Rejected
	23/05/2023 12:15:36	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:15:35	No Data
	23/05/2023 12:15:35	23/05/2023 12:15:36	Rejected
	23/05/2023 12:15:36	23/05/2023 12:21:41	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:15:32	23/05/2023 12:15:52	No Data
	23/05/2023 12:15:52	23/05/2023 12:15:53	Used
	23/05/2023 12:15:53	23/05/2023 12:21:41	Rejected
E5a	23/05/2023 12:15:32	23/05/2023 12:15:53	No Data
	23/05/2023 12:15:53	23/05/2023 12:15:54	Rejected
	23/05/2023 12:15:54	23/05/2023 12:21:41	Used
E5b	23/05/2023 12:15:32	23/05/2023 12:15:53	No Data
	23/05/2023 12:15:53	23/05/2023 12:15:54	Rejected
	23/05/2023 12:15:54	23/05/2023 12:21:41	Used
E5ab	23/05/2023 12:15:32	23/05/2023 12:15:53	No Data
	23/05/2023 12:15:53	23/05/2023 12:15:54	Rejected
	23/05/2023 12:15:54	23/05/2023 12:21:41	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used
B2	23/05/2023 12:15:32	23/05/2023 12:15:33	Rejected
	23/05/2023 12:15:33	23/05/2023 12:21:41	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:15:32	23/05/2023 12:21:41	Used

Cycle Slips

Slip Count: 28

SV	Frequency	Epoch	Slip Value	Flag
G13	L1	23/05/2023 12:16:14	-	RIA
		23/05/2023 12:16:24	-	Flagged
		23/05/2023 12:16:26	-	Flagged
		23/05/2023 12:16:28	-	RIA
		23/05/2023 12:16:58	-	Flagged
		23/05/2023 12:17:00	-	RIA
		23/05/2023 12:17:36	-	Flagged
		23/05/2023 12:17:40	-	RIA
		23/05/2023 12:17:42	-	RIA
		23/05/2023 12:18:02	-	Flagged
		23/05/2023 12:18:04	-	RIA
		23/05/2023 12:18:12	-	RIA
		23/05/2023 12:18:14	-	RIA
		23/05/2023 12:18:30	-	RIA
		23/05/2023 12:18:50	-	Flagged
				23/05/2023 12:18:52
		23/05/2023 12:16:28	-	RIA

	L2	23/05/2023 12:17:00	-	RIA
		23/05/2023 12:17:42	-	RIA
		23/05/2023 12:18:04	-	RIA
		23/05/2023 12:18:12	-	RIA
		23/05/2023 12:18:14	-	RIA
		23/05/2023 12:18:52	-	RIA
E13	E1	23/05/2023 12:15:50	-	RIA
	E5a	23/05/2023 12:15:50	-	RIA
	E5b	23/05/2023 12:15:50	-	RIA
E25	E1	23/05/2023 12:15:36	-	RIA
	E5a	23/05/2023 12:15:36	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-3B

## Processing Parameters (23/05/2023 12:27:00 - 23/05/2023 12:32:34)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-3B

### Acquisition

Start Time - End Time:	23/05/2023 12:27:00 - 23/05/2023 12:32:34
Duration:	00:05:34

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-3B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824

Antenna Name / SN: LEIGS18 / - LEIGS18 / -  
Carrier Offset: - 0.000 m  
Height Reading: 1.405 m 2.000 m  
Antenna Height: 1.405 m 2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-3B		Reference - MOQ01058	Rover - PAF-CU2-3B
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 01.00941" S	Easting:	318,107.441 m	316,457.859 m
WGS84 Longitude:	-	70° 43' 27.87606" W	Northing:	8,117,307.121 m	8,115,917.185 m
WGS84 Ellip. Height:	-	3,467.579 m	Ortho. Height:	3,897.429 m	3,426.337 m
WGS84 Cartesian X:	-	2,014,812.340 m			
WGS84 Cartesian Y:	-	-5,761,268.239 m			
WGS84 Cartesian Z:	-	-1,857,406.322 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 00' 44.74040"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 56.18561"	SD ΔLongitude:	0.000 m
ΔHeight:	-471.332 m	SD ΔHeight:	0.000 m
ΔX:	-1,851.292 m	SD ΔX:	0.000 m
ΔY:	256.689 m	SD ΔY:	0.000 m
ΔZ:	-1,177.847 m	SD ΔZ:	0.000 m
Slope Dist.:	2,209.184 m	SD Slope Dist.:	0.000 m

M0:	0.260 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000007	CQ 3D:	0.000 m
Q22:	0.00000034		
Q13:	-0.00000001		
Q23:	0.00000009		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 2.4	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.0 - 1.4	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.7	Beidou SVs:	5/5
		VDOP:	0.9 - 1.2	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

**Processing Info (23/05/2023 12:27:00 - 23/05/2023 12:32:34)**

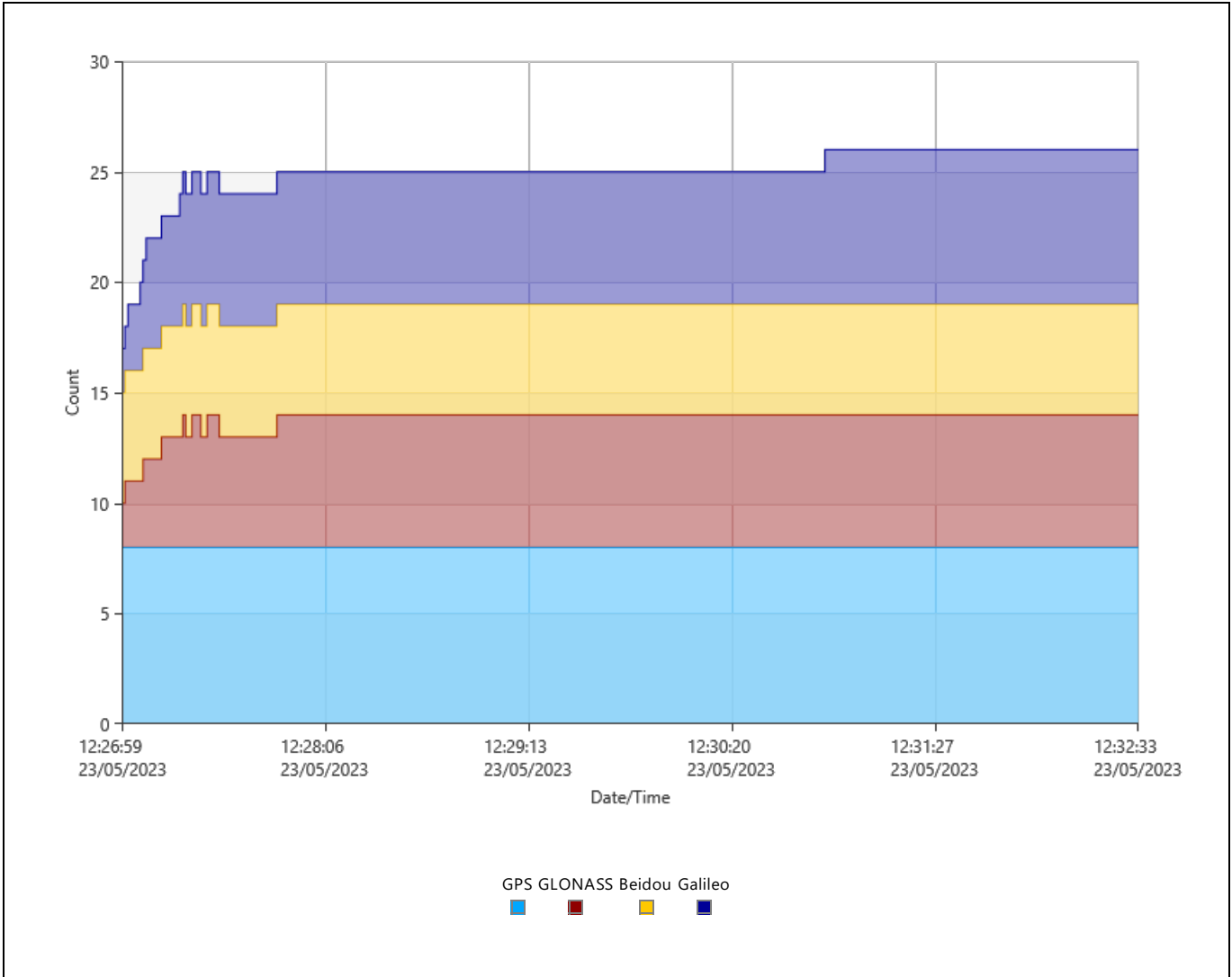
Processed Date/Time: 09/06/2023 17:54:21

**Satellites**

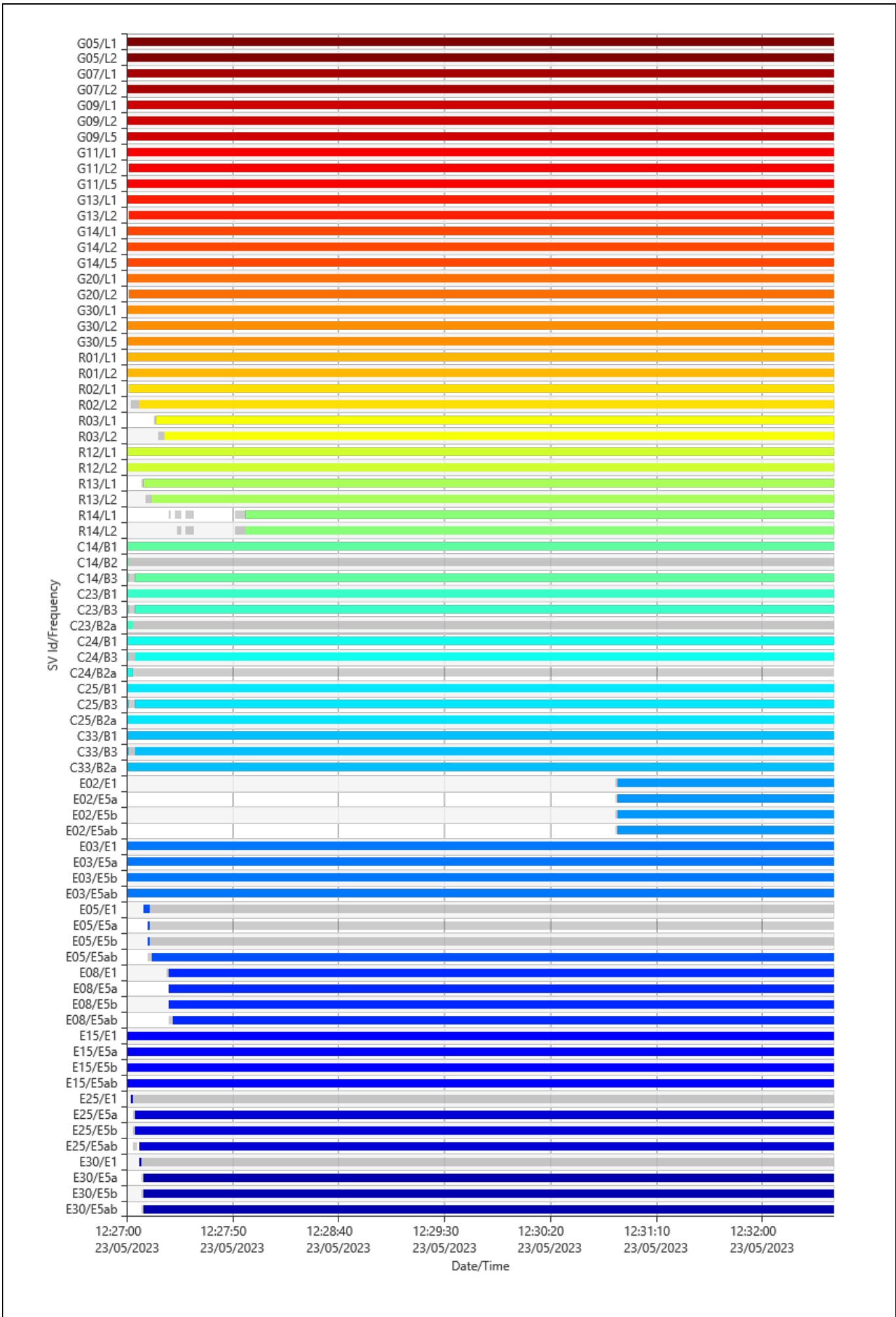
Satellite System	Used	Manually Disabled
GPS	G05 G07 G09 G11 G13 G14 - G20 G30	
GLONASS	R01 R02 R03 R12 R13 R14 -	

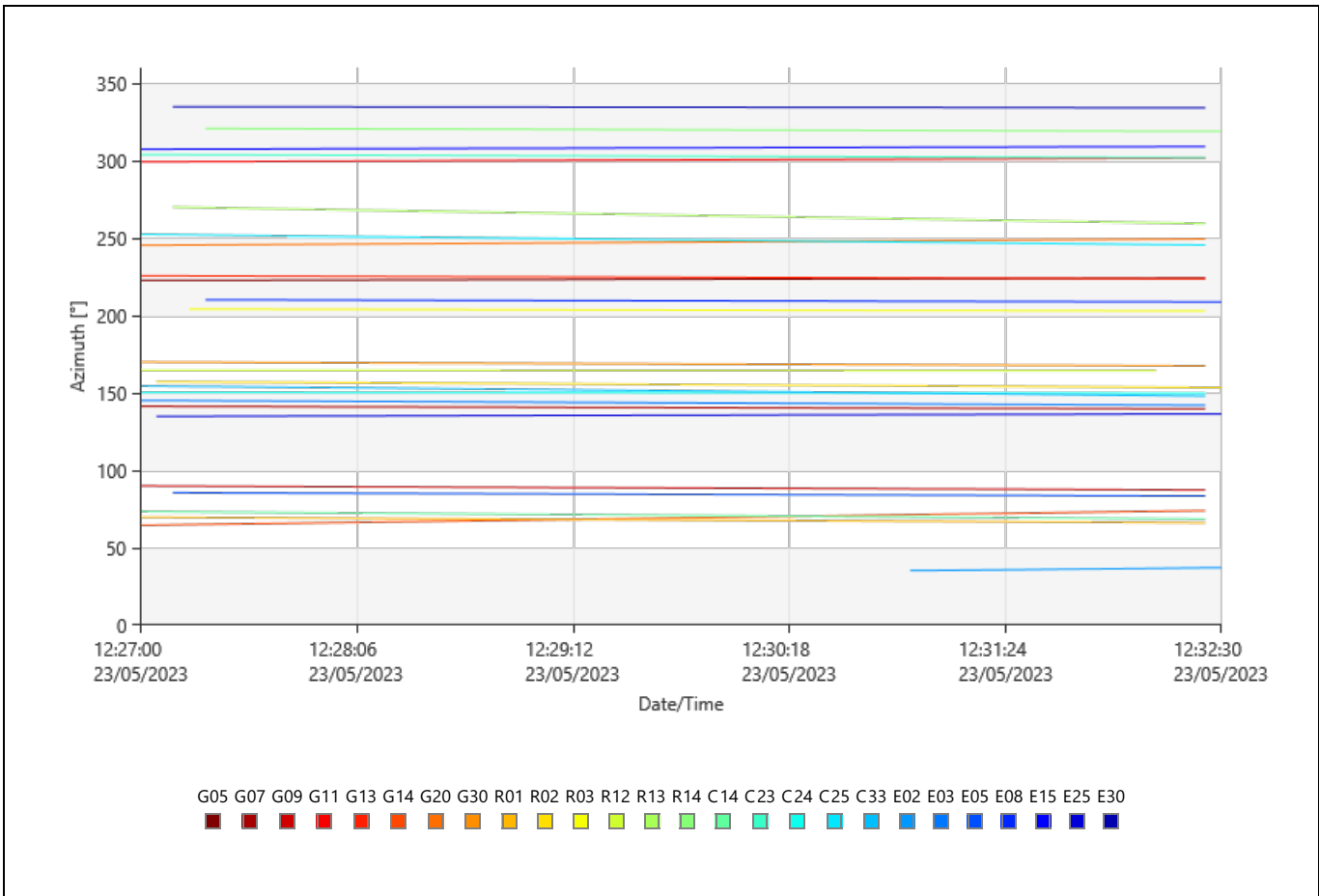
Beidou C14 C23 C24 C25 C33 -  
Galileo E02 E03 E05 E08 E15 E25 -  
E30

**SVs Tracked**

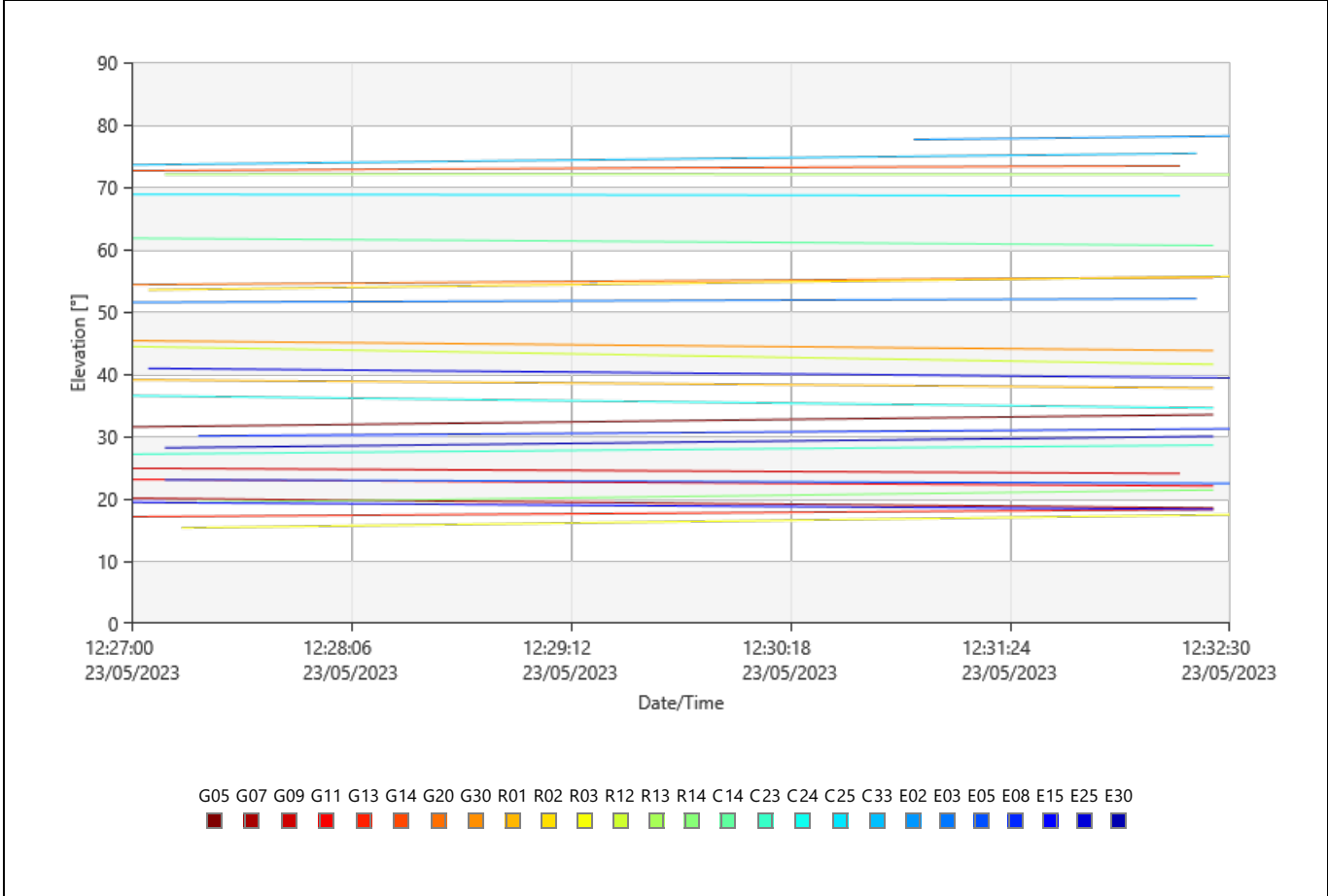


**Signals Tracked**



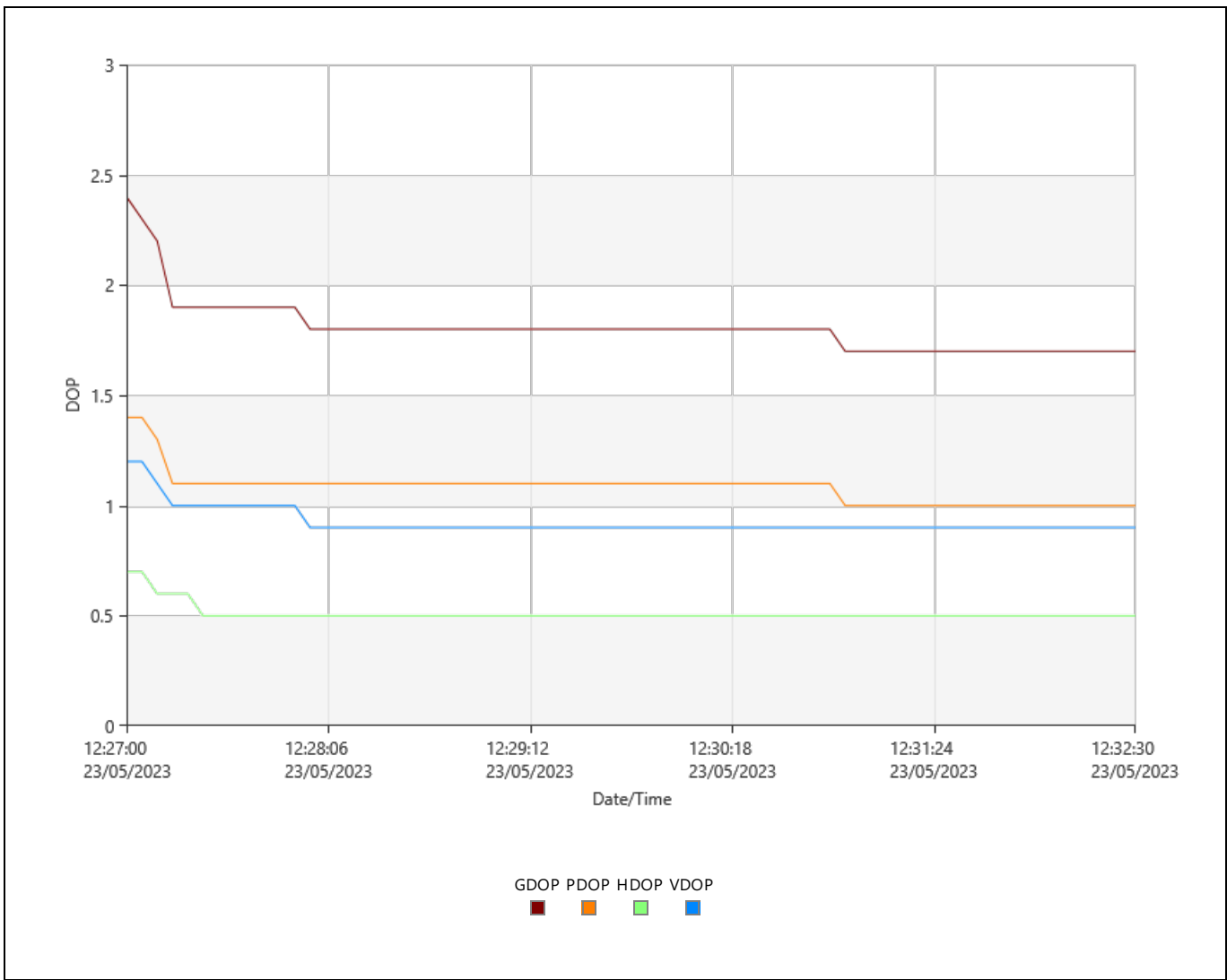


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 335

#### GPS Observations

Frequency	Used	Rejected
L1	2,680	0
L2	2,677	0
L5	1,340	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,931	15
L2	1,918	21

#### Beidou Observations

Frequency	Used	Rejected
B1	1,675	0
B2	1	334
B3	1,660	15
B2a	676	664

#### Galileo Observations

Frequency	Used	Rejected
E1	1,093	986
E5a	1,747	327
E5b	1,747	327
E5ab	2,065	8

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	12	14	28
Total	20	12	15	31
Independently fixed	42	42	42	42
Possible independently fixed	42	42	42	42

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	99.71
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.29
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	23/05/2023 12:27:00	23/05/2023 12:27:01	00:00:01
Fixed	23/05/2023 12:27:01	23/05/2023 12:32:34	00:05:33

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>No Data</b>

### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>No Data</b>

### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>No Data</b>
L5	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
L5	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used

### G14

Frequency	From Epoch	To Epoch	Status
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L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>No Data</b>
L5	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>No Data</b>
L5	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:01</b>	<b>No Data</b>
	23/05/2023 12:27:01	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:02</b>	<b>No Data</b>
	<b>23/05/2023 12:27:02</b>	<b>23/05/2023 12:27:06</b>	<b>Rejected</b>
	23/05/2023 12:27:06	23/05/2023 12:32:34	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:13</b>	<b>No Data</b>
	<b>23/05/2023 12:27:13</b>	<b>23/05/2023 12:27:14</b>	<b>Rejected</b>
	23/05/2023 12:27:14	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:15</b>	<b>No Data</b>
	<b>23/05/2023 12:27:15</b>	<b>23/05/2023 12:27:18</b>	<b>Rejected</b>
	23/05/2023 12:27:18	23/05/2023 12:32:34	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
L2	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:07</b>	<b>No Data</b>
	<b>23/05/2023 12:27:07</b>	<b>23/05/2023 12:27:08</b>	<b>Rejected</b>
	23/05/2023 12:27:08	23/05/2023 12:32:34	Used
L2	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:09</b>	<b>No Data</b>
	<b>23/05/2023 12:27:09</b>	<b>23/05/2023 12:27:12</b>	<b>Rejected</b>
	23/05/2023 12:27:12	23/05/2023 12:32:34	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:20</b>	<b>No Data</b>
	<b>23/05/2023 12:27:20</b>	<b>23/05/2023 12:27:21</b>	<b>Rejected</b>
	<b>23/05/2023 12:27:21</b>	<b>23/05/2023 12:27:23</b>	<b>No Data</b>
	<b>23/05/2023 12:27:23</b>	<b>23/05/2023 12:27:26</b>	<b>Rejected</b>
	<b>23/05/2023 12:27:26</b>	<b>23/05/2023 12:27:28</b>	<b>No Data</b>
	<b>23/05/2023 12:27:28</b>	<b>23/05/2023 12:27:32</b>	<b>Rejected</b>
	<b>23/05/2023 12:27:32</b>	<b>23/05/2023 12:27:51</b>	<b>No Data</b>
	<b>23/05/2023 12:27:51</b>	<b>23/05/2023 12:27:56</b>	<b>Rejected</b>

	23/05/2023 12:27:56	23/05/2023 12:32:34	Used
L2	23/05/2023 12:27:00	23/05/2023 12:27:24	No Data
	23/05/2023 12:27:24	23/05/2023 12:27:26	Rejected
	23/05/2023 12:27:26	23/05/2023 12:27:28	No Data
	23/05/2023 12:27:28	23/05/2023 12:27:32	Rejected
	23/05/2023 12:27:32	23/05/2023 12:27:51	No Data
	23/05/2023 12:27:51	23/05/2023 12:27:56	Rejected
	23/05/2023 12:27:56	23/05/2023 12:32:34	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:27:00	23/05/2023 12:30:51	No Data
	23/05/2023 12:30:51	23/05/2023 12:30:52	Rejected
	23/05/2023 12:30:52	23/05/2023 12:32:34	Used
E5a	23/05/2023 12:27:00	23/05/2023 12:30:51	No Data
	23/05/2023 12:30:51	23/05/2023 12:30:52	Rejected
	23/05/2023 12:30:52	23/05/2023 12:32:34	Used
E5b	23/05/2023 12:27:00	23/05/2023 12:30:51	No Data
	23/05/2023 12:30:51	23/05/2023 12:30:52	Rejected
	23/05/2023 12:30:52	23/05/2023 12:32:34	Used
E5ab	23/05/2023 12:27:00	23/05/2023 12:30:51	No Data
	23/05/2023 12:30:51	23/05/2023 12:30:52	Rejected
	23/05/2023 12:30:52	23/05/2023 12:32:34	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5a	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5b	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5ab	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:27:00	23/05/2023 12:27:08	No Data
	23/05/2023 12:27:08	23/05/2023 12:27:11	Used
	23/05/2023 12:27:11	23/05/2023 12:32:34	Rejected
E5a	23/05/2023 12:27:00	23/05/2023 12:27:10	No Data
	23/05/2023 12:27:10	23/05/2023 12:27:11	Used
	23/05/2023 12:27:11	23/05/2023 12:32:34	Rejected
E5b	23/05/2023 12:27:00	23/05/2023 12:27:10	No Data
	23/05/2023 12:27:10	23/05/2023 12:27:11	Used
	23/05/2023 12:27:11	23/05/2023 12:32:34	Rejected
E5ab	23/05/2023 12:27:00	23/05/2023 12:27:10	No Data
	23/05/2023 12:27:10	23/05/2023 12:27:12	Rejected
	23/05/2023 12:27:12	23/05/2023 12:32:34	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:27:00	23/05/2023 12:27:19	No Data
	23/05/2023 12:27:19	23/05/2023 12:27:20	Rejected
	23/05/2023 12:27:20	23/05/2023 12:32:34	Used
E5a	23/05/2023 12:27:00	23/05/2023 12:27:20	No Data
	23/05/2023 12:27:20	23/05/2023 12:32:34	Used
E5b	23/05/2023 12:27:00	23/05/2023 12:27:20	No Data
	23/05/2023 12:27:20	23/05/2023 12:32:34	Used
E5ab	23/05/2023 12:27:00	23/05/2023 12:27:20	No Data
	23/05/2023 12:27:20	23/05/2023 12:27:22	Rejected
	23/05/2023 12:27:22	23/05/2023 12:32:34	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5a	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5b	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
E5ab	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

E25

Frequency	From Epoch	To Epoch	Status
	23/05/2023 12:27:00	23/05/2023 12:27:02	No Data

E1	23/05/2023 12:27:02	23/05/2023 12:27:03	Used
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:32:34</b>	<b>Rejected</b>
E5a	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:03</b>	<b>No Data</b>
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used
E5b	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:03</b>	<b>No Data</b>
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used
E5ab	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:03</b>	<b>No Data</b>
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:27:05</b>	<b>Rejected</b>
	<b>23/05/2023 12:27:05</b>	<b>23/05/2023 12:27:06</b>	<b>No Data</b>
	23/05/2023 12:27:06	23/05/2023 12:32:34	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:06</b>	<b>No Data</b>
	23/05/2023 12:27:06	23/05/2023 12:27:07	Used
	<b>23/05/2023 12:27:07</b>	<b>23/05/2023 12:32:34</b>	<b>Rejected</b>
E5a	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:07</b>	<b>No Data</b>
	<b>23/05/2023 12:27:07</b>	<b>23/05/2023 12:27:08</b>	<b>Rejected</b>
	23/05/2023 12:27:08	23/05/2023 12:32:34	Used
E5b	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:07</b>	<b>No Data</b>
	<b>23/05/2023 12:27:07</b>	<b>23/05/2023 12:27:08</b>	<b>Rejected</b>
	23/05/2023 12:27:08	23/05/2023 12:32:34	Used
E5ab	<b>23/05/2023 12:27:00</b>	<b>23/05/2023 12:27:07</b>	<b>No Data</b>
	<b>23/05/2023 12:27:07</b>	<b>23/05/2023 12:27:08</b>	<b>Rejected</b>
	23/05/2023 12:27:08	23/05/2023 12:32:34	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
B2	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:32:34</b>	<b>Rejected</b>
B3	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
B3	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used
B2a	23/05/2023 12:27:00	23/05/2023 12:27:03	Used
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:32:34</b>	<b>Rejected</b>

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
B3	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used
B2a	23/05/2023 12:27:00	23/05/2023 12:27:03	Used
	<b>23/05/2023 12:27:03</b>	<b>23/05/2023 12:32:34</b>	<b>Rejected</b>

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
B3	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used
B2a	23/05/2023 12:27:00	23/05/2023 12:32:34	Used

C33

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
B3	23/05/2023 12:27:00	23/05/2023 12:27:01	Used
	<b>23/05/2023 12:27:01</b>	<b>23/05/2023 12:27:04</b>	<b>Rejected</b>
	23/05/2023 12:27:04	23/05/2023 12:32:34	Used

B2a	23/05/2023 12:27:00	23/05/2023 12:32:34	Used
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## Cycle Slips

Slip Count: 3

SV	Frequency	Epoch	Slip Value	Flag
E05	E5ab	23/05/2023 12:27:12	-	RIA
E08	E5ab	23/05/2023 12:27:22	-	RIA
E25	E5ab	23/05/2023 12:27:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-3A

## Processing Parameters (23/05/2023 12:28:26 - 23/05/2023 12:34:38)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-3A

### Acquisition

Start Time - End Time: 23/05/2023 12:28:26 - 23/05/2023 12:34:38  
Duration: 00:06:12

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-3A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618

Antenna Name / SN: LEIGS18 / - LEIGS18 / -  
Carrier Offset: - 0.000 m  
Height Reading: 1.405 m 2.000 m  
Antenna Height: 1.405 m 2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-3A		Reference - MOQ01058	Rover - PAF-CU2-3A
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 01' 46.31796" S	Easting:	318,107.441 m	314,851.415 m
WGS84 Longitude:	-	70° 44' 22.06050" W	Northing:	8,117,307.121 m	8,116,354.622 m
WGS84 Ellip. Height:	-	3,397.741 m	Ortho. Height:	3,897.429 m	3,356.625 m
WGS84 Cartesian X:	-	2,013,320.455 m			
WGS84 Cartesian Y:	-	-5,761,859.229 m			
WGS84 Cartesian Z:	-	-1,856,953.802 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 00' 30.04895"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 50.37005"	SD ΔLongitude:	0.000 m
ΔHeight:	-541.170 m	SD ΔHeight:	0.000 m
ΔX:	-3,343.177 m	SD ΔX:	0.000 m
ΔY:	-334.301 m	SD ΔY:	0.000 m
ΔZ:	-725.327 m	SD ΔZ:	0.000 m
Slope Dist.:	3,437.250 m	SD Slope Dist.:	0.000 m

M0:	0.323 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000008	CQ 3D:	0.000 m
Q22:	0.00000031		
Q13:	-0.00000004		
Q23:	0.00000011		
Q33:	0.00000014		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.9 - 2.3	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.1 - 1.3	GLONASS SVs:	5/6
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.8	Beidou SVs:	4/4
		VDOP:	0.9 - 1.1	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

**Processing Info (23/05/2023 12:28:26 - 23/05/2023 12:34:38)**

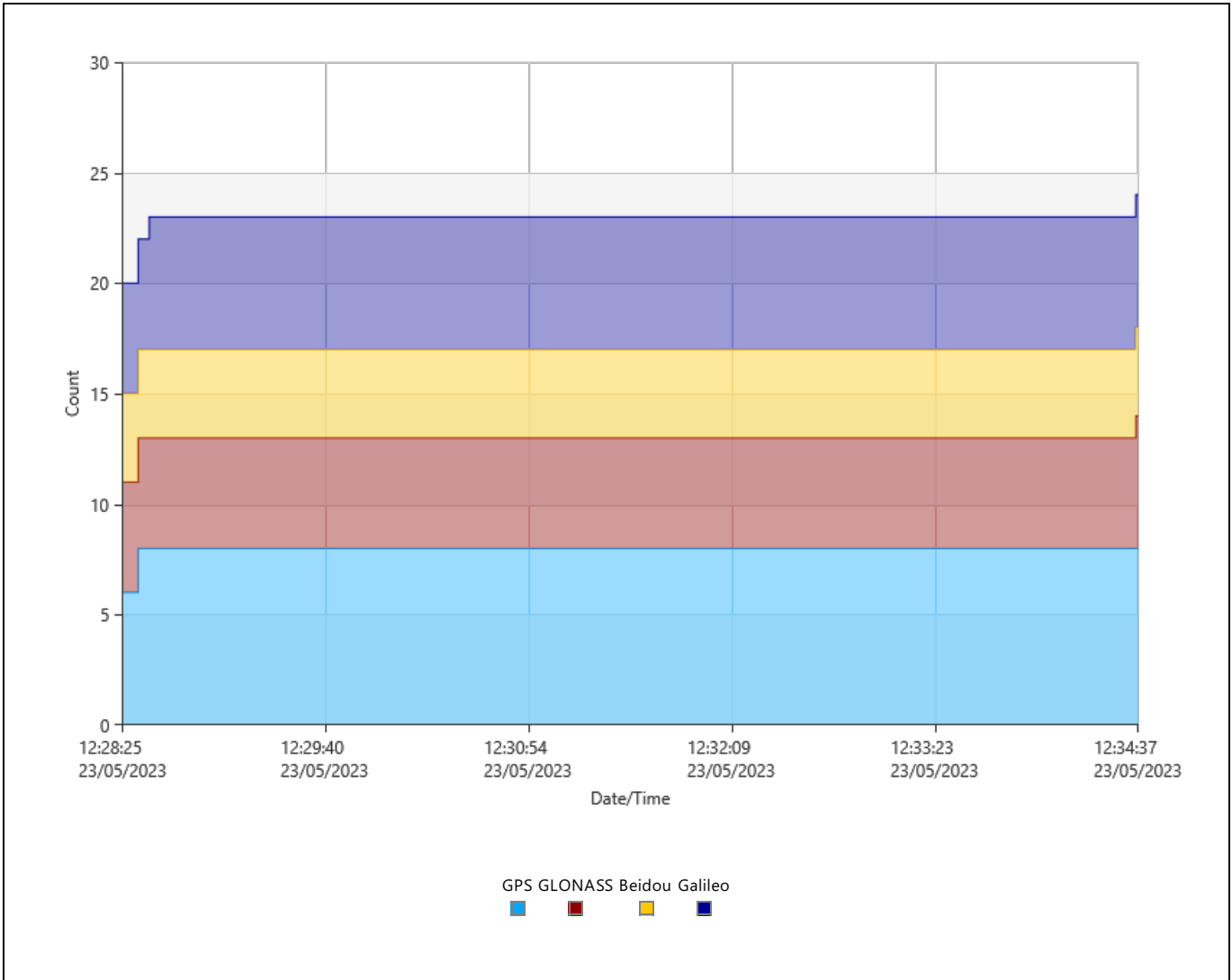
Processed Date/Time: 09/06/2023 17:54:21

**Satellites**

Satellite System	Used	Manually Disabled
GPS	G05 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R03 R12 R13	-

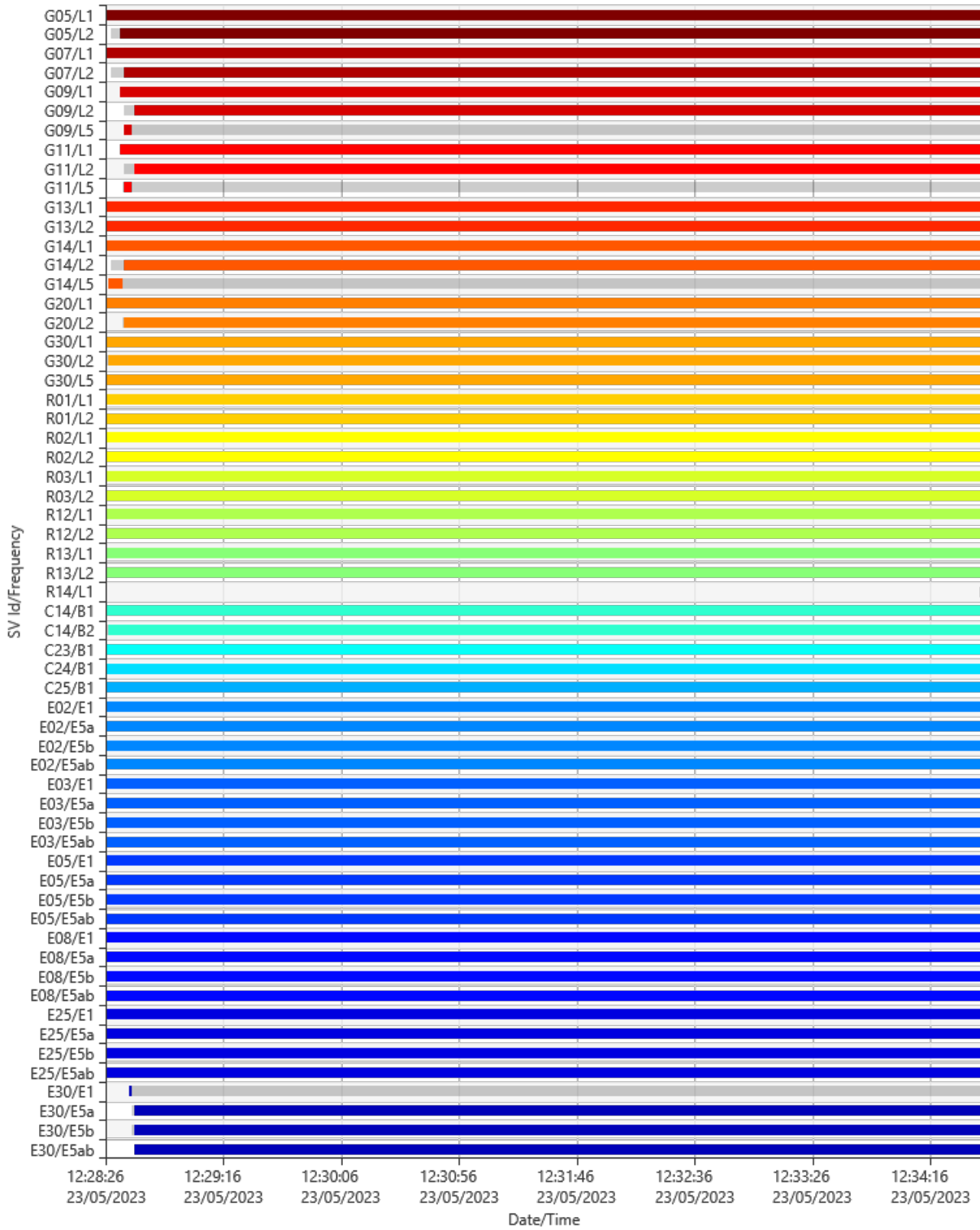
Beidou C14 C23 C24 C25 -  
Galileo E02 E03 E05 E08 E25 E30 -

**SVs Tracked**

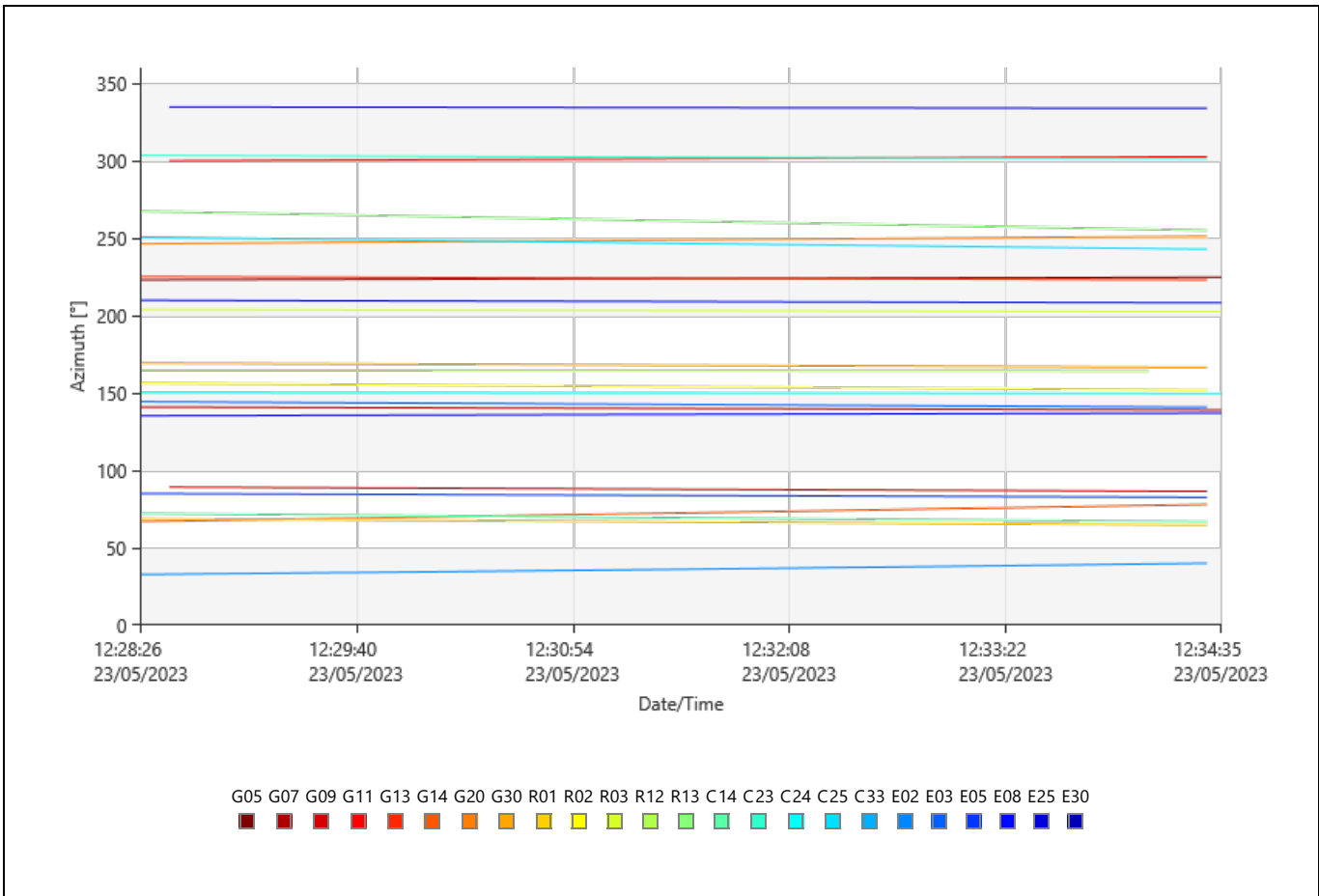


**Signals Tracked**

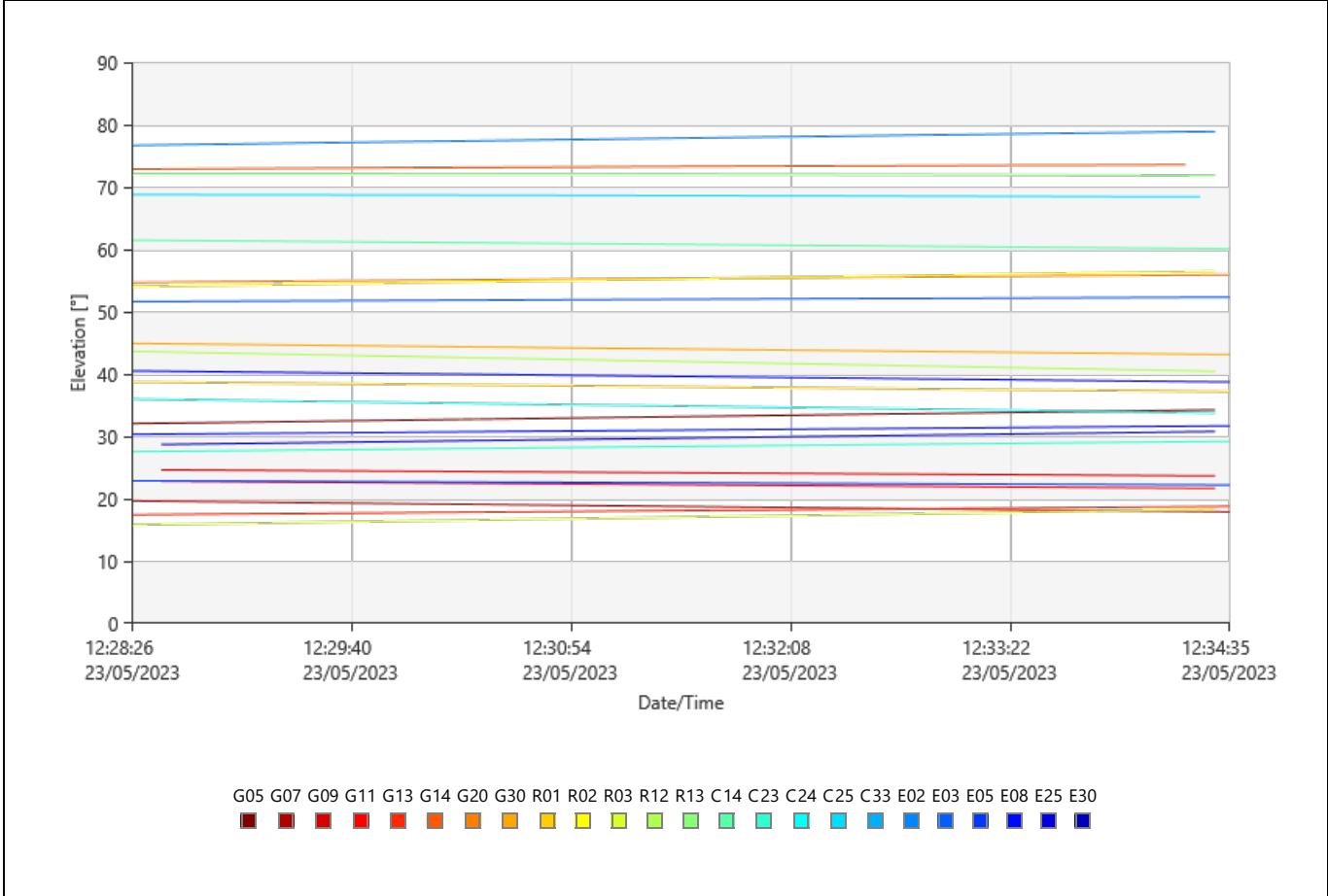




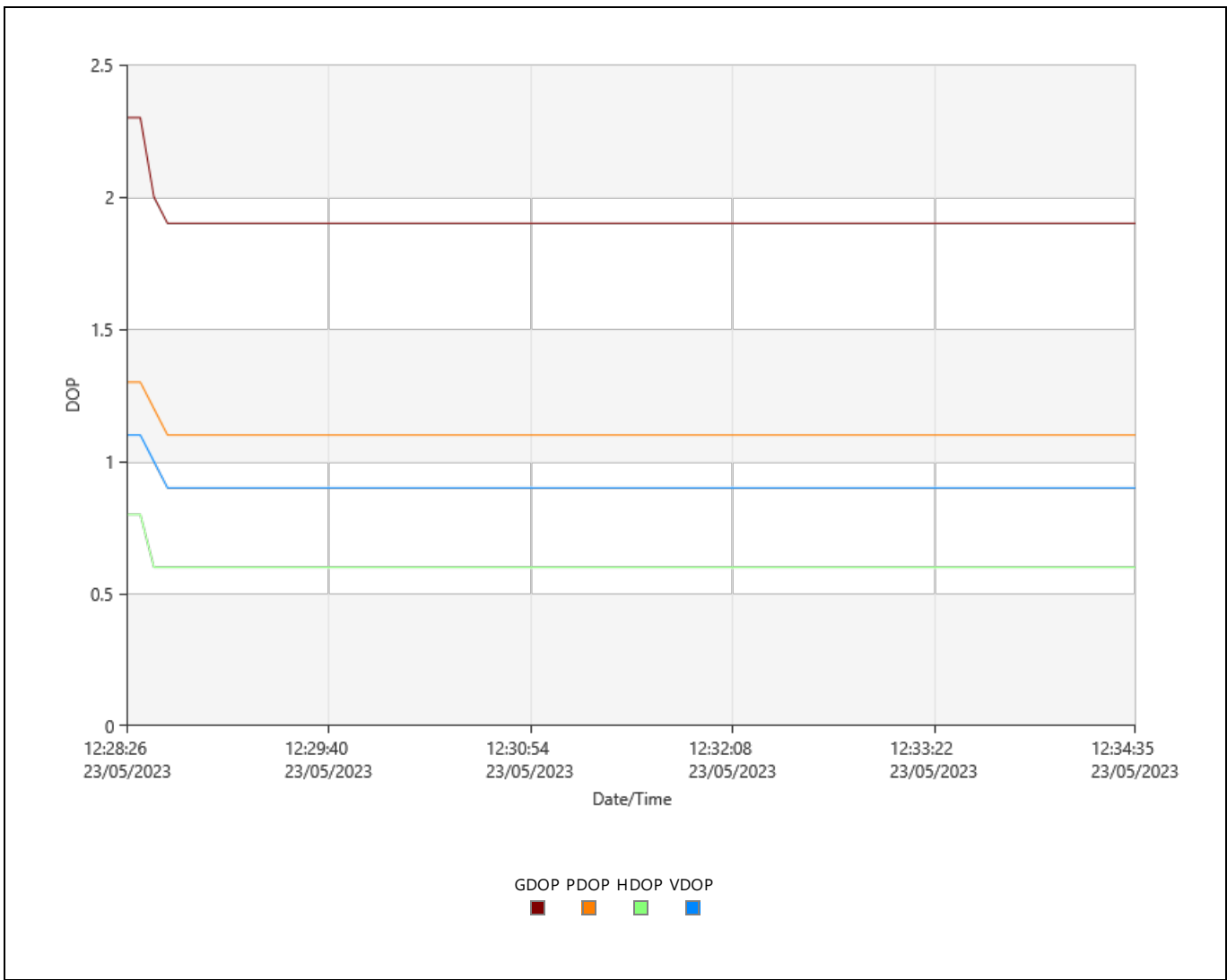
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 373

#### GPS Observations

Frequency	Used	Rejected
L1	2,972	0
L2	2,929	26
L5	385	1,091

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,865	1
L2	1,865	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,492	0
B2	372	1

#### Galileo Observations

Frequency	Used	Rejected
E1	1,866	362
E5a	2,226	1
E5b	2,226	1
E5ab	2,226	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	10	5	24
Total	20	10	5	24
Independently fixed	46	46	46	46
Possible independently fixed	46	46	46	46

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 12:28:26	23/05/2023 12:34:38	00:06:12

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:28	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:31	No Data
	23/05/2023 12:28:28	23/05/2023 12:28:31	Rejected
	23/05/2023 12:28:31	23/05/2023 12:28:32	Rejected
	23/05/2023 12:28:32	23/05/2023 12:34:38	Used
	23/05/2023 12:28:31	23/05/2023 12:34:38	No Data

#### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:28	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:33	No Data
	23/05/2023 12:28:28	23/05/2023 12:28:33	Rejected
	23/05/2023 12:28:33	23/05/2023 12:28:34	Rejected
	23/05/2023 12:28:34	23/05/2023 12:34:38	Used
		23/05/2023 12:28:33	23/05/2023 12:34:38

#### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:28:32	No Data
	23/05/2023 12:28:32	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:34	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:37	No Data
	23/05/2023 12:28:34	23/05/2023 12:28:37	Rejected
	23/05/2023 12:28:37	23/05/2023 12:28:38	Rejected
	23/05/2023 12:28:38	23/05/2023 12:34:38	Used
		23/05/2023 12:28:37	23/05/2023 12:34:38
L5	23/05/2023 12:28:26	23/05/2023 12:28:34	No Data
	23/05/2023 12:28:34	23/05/2023 12:28:37	Used
	23/05/2023 12:28:37	23/05/2023 12:34:38	Rejected

#### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:28:32	No Data
	23/05/2023 12:28:32	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:34	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:37	No Data
	23/05/2023 12:28:34	23/05/2023 12:28:37	Rejected
	23/05/2023 12:28:37	23/05/2023 12:28:38	Rejected
	23/05/2023 12:28:38	23/05/2023 12:34:38	Used

	23/05/2023 12:28:37	23/05/2023 12:34:38	No Data
L5	23/05/2023 12:28:26	23/05/2023 12:28:33	No Data
	23/05/2023 12:28:33	23/05/2023 12:28:34	Rejected
	23/05/2023 12:28:34	23/05/2023 12:28:37	Used
	23/05/2023 12:28:37	23/05/2023 12:34:38	Rejected

G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:28	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:33	No Data
	23/05/2023 12:28:28	23/05/2023 12:28:33	Rejected
	23/05/2023 12:28:33	23/05/2023 12:28:34	Rejected
	23/05/2023 12:28:34	23/05/2023 12:34:38	Used
L5	23/05/2023 12:28:33	23/05/2023 12:34:38	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:27	No Data
	23/05/2023 12:28:27	23/05/2023 12:28:33	Used
	23/05/2023 12:28:33	23/05/2023 12:34:38	Rejected

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:33	No Data
	23/05/2023 12:28:33	23/05/2023 12:28:34	Rejected
	23/05/2023 12:28:34	23/05/2023 12:34:38	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:28:27	No Data
	23/05/2023 12:28:26	23/05/2023 12:28:27	Rejected
	23/05/2023 12:28:27	23/05/2023 12:34:38	Used
	23/05/2023 12:28:27	23/05/2023 12:34:38	No Data
L5	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
L2	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

R14

Frequency	From Epoch	To Epoch	Status
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L1	23/05/2023 12:28:26	23/05/2023 12:34:37	No Data
	23/05/2023 12:34:37	23/05/2023 12:34:38	Rejected
	23/05/2023 12:34:38	23/05/2023 12:34:38	No Data

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5a	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5b	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5ab	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5a	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5b	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5ab	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5a	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5b	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5ab	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5a	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5b	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5ab	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5a	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5b	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
E5ab	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:28:26	23/05/2023 12:28:36	No Data
	23/05/2023 12:28:36	23/05/2023 12:28:37	Used
E5a	23/05/2023 12:28:37	23/05/2023 12:34:38	Rejected
	23/05/2023 12:28:26	23/05/2023 12:28:37	No Data
	23/05/2023 12:28:37	23/05/2023 12:28:38	Rejected
E5b	23/05/2023 12:28:38	23/05/2023 12:34:38	Used
	23/05/2023 12:28:26	23/05/2023 12:28:37	No Data
	23/05/2023 12:28:37	23/05/2023 12:28:38	Rejected
E5ab	23/05/2023 12:28:26	23/05/2023 12:28:38	No Data
	23/05/2023 12:28:38	23/05/2023 12:34:38	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used
B2	23/05/2023 12:28:26	23/05/2023 12:28:27	Rejected
	23/05/2023 12:28:27	23/05/2023 12:34:38	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:28:26	23/05/2023 12:34:38	Used

## Cycle Slips

Slip Count: 0

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-4B

## Processing Parameters (23/05/2023 12:43:29 - 23/05/2023 12:49:33)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-4B

---

### Acquisition

Start Time - End Time: 23/05/2023 12:43:29 - 23/05/2023 12:49:33  
Duration: 00:06:04

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-4B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

---

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-4B	Reference - MOQ01058	Rover - PAF-CU2-4B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 07.60504" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 43' 53.58141" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,455.912 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,014,071.045 m		
WGS84 Cartesian Y:	-	-5,761,452.655 m		
WGS84 Cartesian Z:	-	-1,857,596.874 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 51.33602"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 21.89096"	SD ΔLongitude:	0.000 m
ΔHeight:	-482.999 m	SD ΔHeight:	0.000 m
ΔX:	-2,592.588 m	SD ΔX:	0.000 m
ΔY:	72.273 m	SD ΔY:	0.000 m
ΔZ:	-1,368.399 m	SD ΔZ:	0.000 m
Slope Dist.:	2,932.448 m	SD Slope Dist.:	0.000 m

M0:	0.483 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000007	CQ 3D:	0.000 m
Q22:	0.00000031		
Q13:	-0.00000001		
Q23:	0.00000008		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.8 - 2.2	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.1 - 1.2	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	5/5
		VDOP:	0.9 - 1.0	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

### Processing Info (23/05/2023 12:43:29 - 23/05/2023 12:49:33)

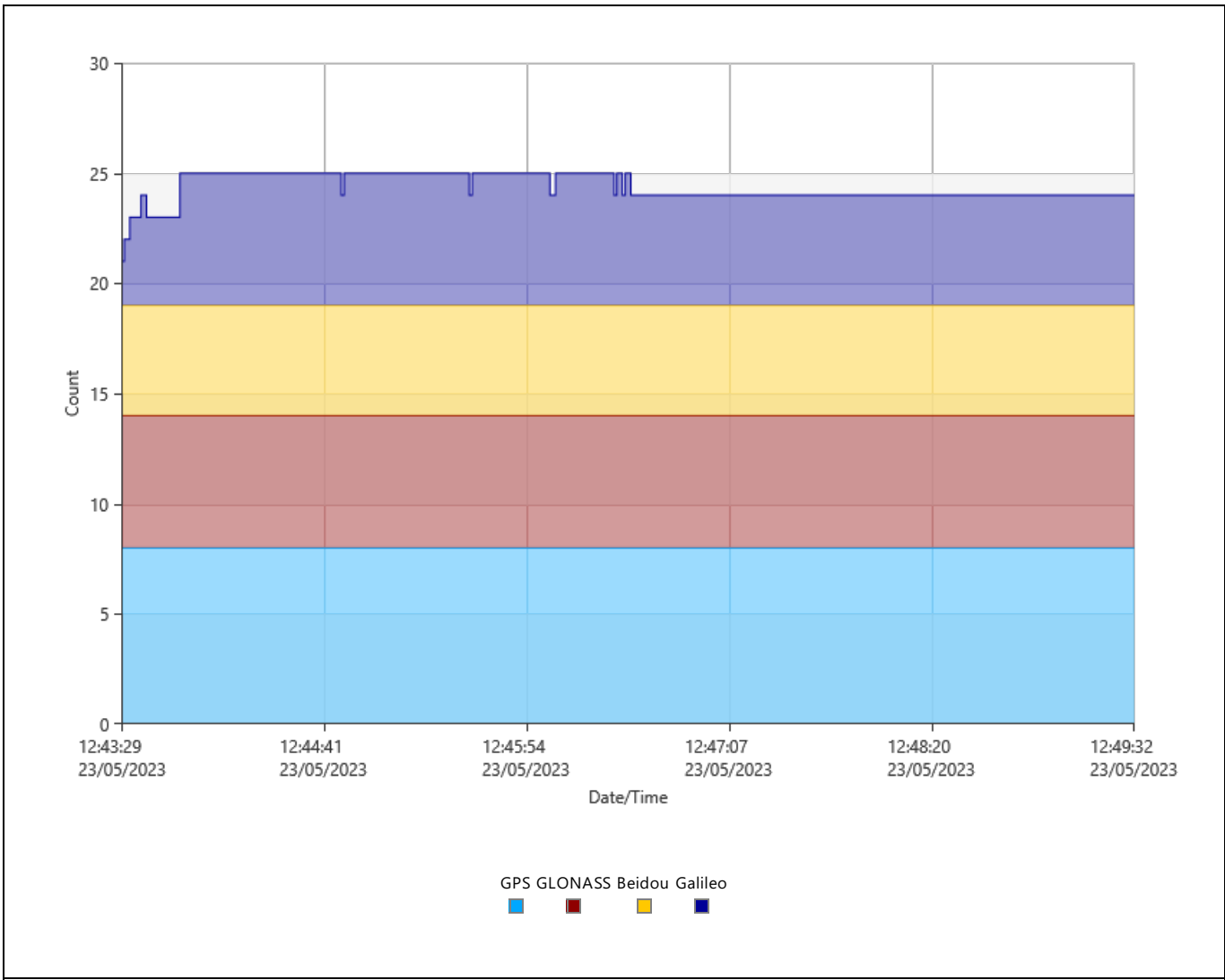
Processed Date/Time: 09/06/2023 17:54:21

### Satellites

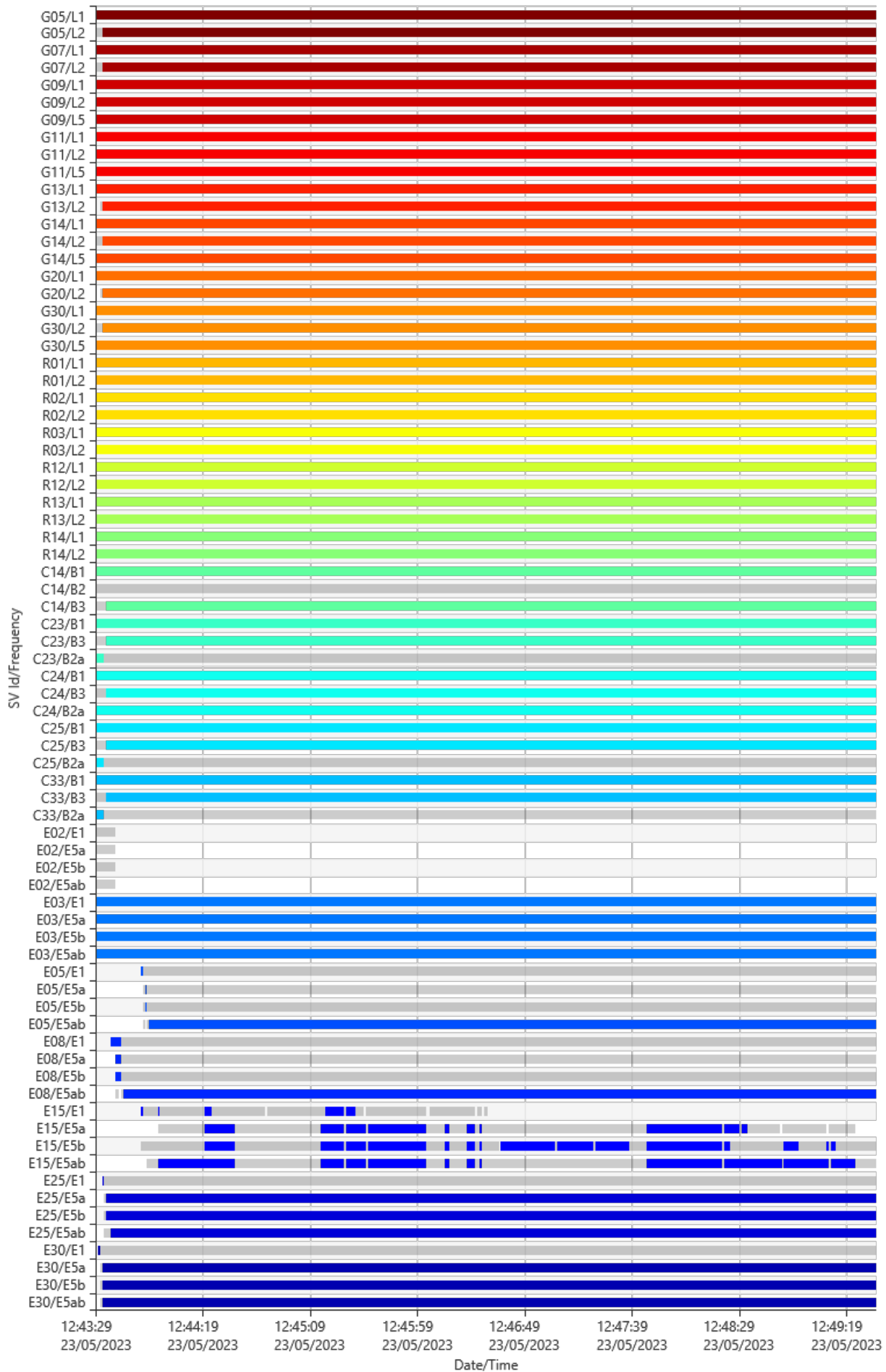
Satellite System	Used	Manually Disabled
GPS	G05 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R01 R02 R03 R12 R13 R14	-
Beidou	C14 C23 C24 C25 C33	-
Galileo	E03 E05 E08 E15 E25 E30	-

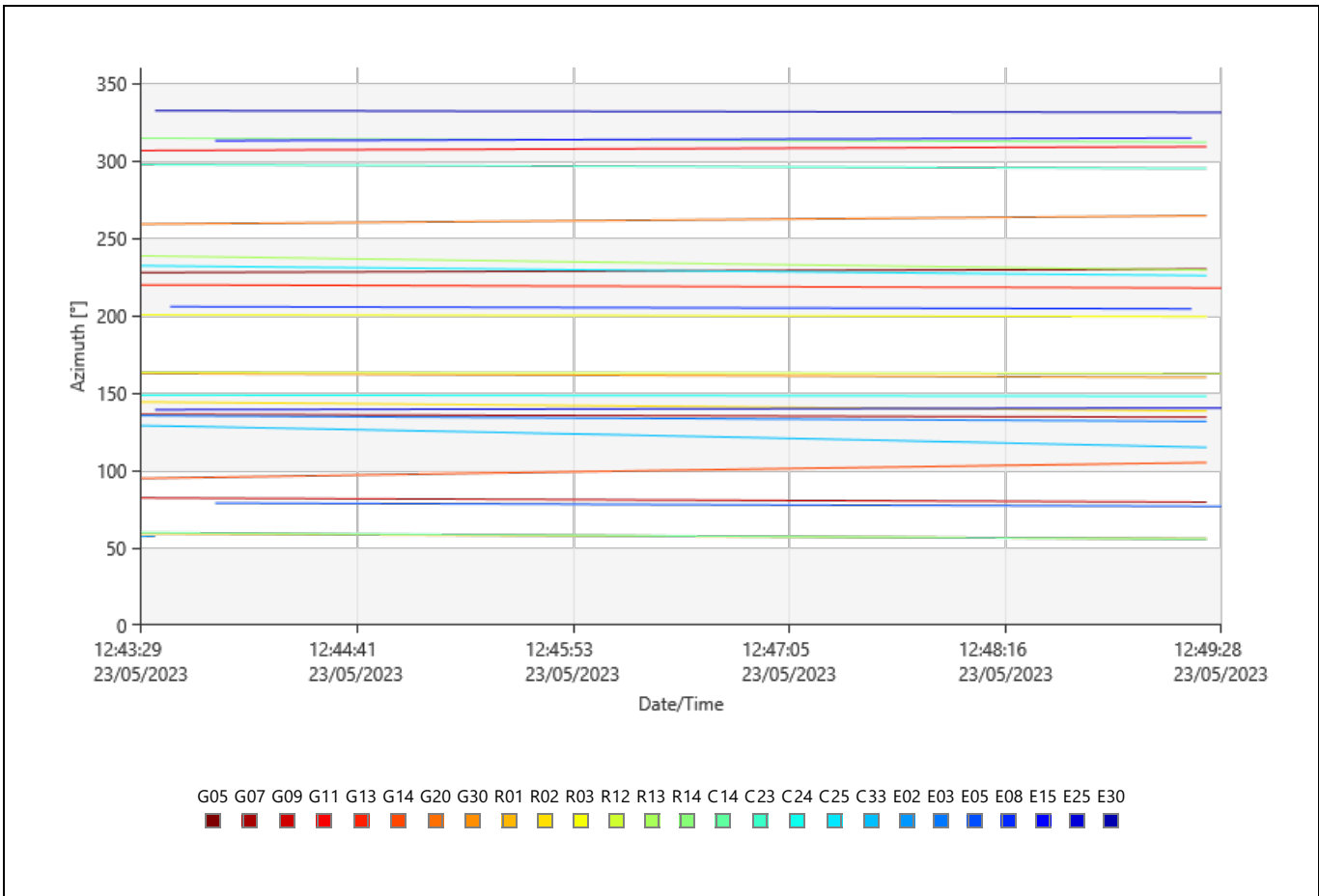
### SVs Tracked



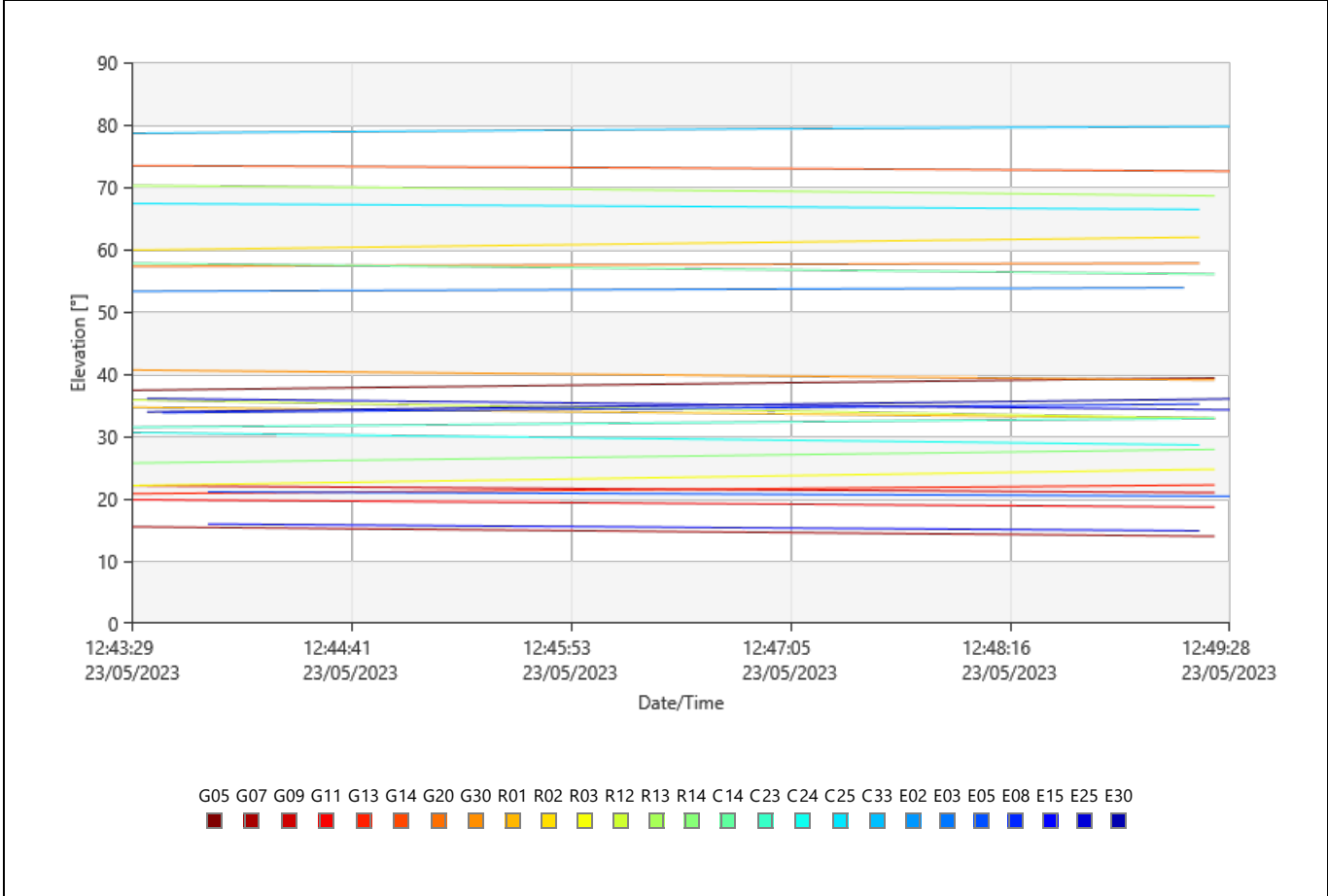


Signals Tracked

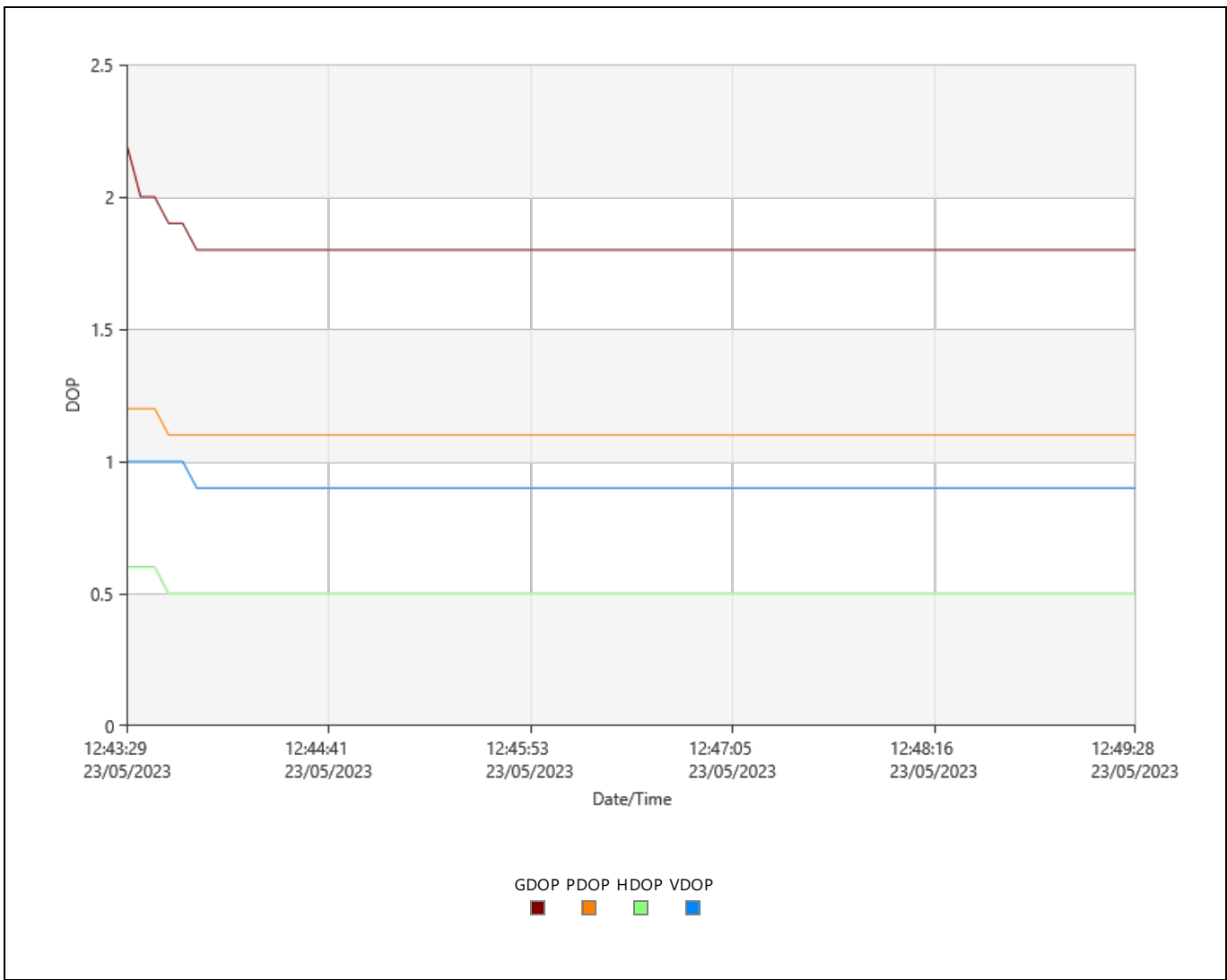




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 365

#### GPS Observations

Frequency	Used	Rejected
L1	2,920	0
L2	2,902	14
L5	1,460	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	2,190	0
L2	2,190	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,825	0
B2	0	365
B3	1,800	25
B2a	377	1,083

#### Galileo Observations

Frequency	Used	Rejected
E1	391	1,567
E5a	1,204	916
E5b	1,265	875
E5ab	1,961	175

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	12	14	42
Total	20	12	15	70
Independently fixed	45	45	45	45
Possible independently fixed	45	45	45	45

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	94.62	93.98	93.43	96.42
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	5.38	4.97	4.03	3.58
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.04	2.53	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 12:43:29	23/05/2023 12:49:33	00:06:04

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data
	23/05/2023 12:43:29	23/05/2023 12:43:31	Rejected
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
	23/05/2023 12:43:31	23/05/2023 12:49:33	No Data

#### G07

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data
	23/05/2023 12:43:29	23/05/2023 12:43:31	Rejected
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
	23/05/2023 12:43:31	23/05/2023 12:49:33	No Data

#### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L5	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L5	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data

L2	23/05/2023 12:43:29	23/05/2023 12:43:31	Rejected
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
	23/05/2023 12:43:31	23/05/2023 12:49:33	No Data
L5	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:43:31	No Data
	23/05/2023 12:43:29	23/05/2023 12:43:31	Rejected
	23/05/2023 12:43:31	23/05/2023 12:43:32	Rejected
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
	23/05/2023 12:43:31	23/05/2023 12:49:33	No Data
L5	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
L2	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:43:29	23/05/2023 12:43:38	Rejected
	23/05/2023 12:43:38	23/05/2023 12:49:33	No Data
E5a	23/05/2023 12:43:29	23/05/2023 12:43:38	Rejected
	23/05/2023 12:43:38	23/05/2023 12:49:33	No Data
E5b	23/05/2023 12:43:29	23/05/2023 12:43:38	Rejected
	23/05/2023 12:43:38	23/05/2023 12:49:33	No Data
E5ab	23/05/2023 12:43:29	23/05/2023 12:43:38	Rejected
	23/05/2023 12:43:38	23/05/2023 12:49:33	No Data

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

<b>E5a</b>	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
<b>E5b</b>	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
<b>E5ab</b>	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

**E05**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:50</b>	<b>No Data</b>
	23/05/2023 12:43:50	23/05/2023 12:43:51	Used
	<b>23/05/2023 12:43:51</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
<b>E5a</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:51</b>	<b>No Data</b>
	<b>23/05/2023 12:43:51</b>	<b>23/05/2023 12:43:52</b>	<b>Rejected</b>
	23/05/2023 12:43:52	23/05/2023 12:43:53	Used
<b>E5b</b>	<b>23/05/2023 12:43:53</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:51</b>	<b>No Data</b>
	<b>23/05/2023 12:43:51</b>	<b>23/05/2023 12:43:52</b>	<b>Rejected</b>
<b>E5ab</b>	23/05/2023 12:43:52	23/05/2023 12:43:53	Used
	<b>23/05/2023 12:43:53</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:51</b>	<b>No Data</b>
<b>E5ab</b>	<b>23/05/2023 12:43:51</b>	<b>23/05/2023 12:43:52</b>	<b>Rejected</b>
	<b>23/05/2023 12:43:52</b>	<b>23/05/2023 12:43:53</b>	<b>No Data</b>
	<b>23/05/2023 12:43:53</b>	<b>23/05/2023 12:43:54</b>	<b>Rejected</b>
	23/05/2023 12:43:54	23/05/2023 12:49:33	Used

**E08**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:36</b>	<b>No Data</b>
	23/05/2023 12:43:36	23/05/2023 12:43:41	Used
	<b>23/05/2023 12:43:41</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
<b>E5a</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:38</b>	<b>No Data</b>
	23/05/2023 12:43:38	23/05/2023 12:43:41	Used
	<b>23/05/2023 12:43:41</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
<b>E5b</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:38</b>	<b>No Data</b>
	23/05/2023 12:43:38	23/05/2023 12:43:41	Used
	<b>23/05/2023 12:43:41</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
<b>E5ab</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:38</b>	<b>No Data</b>
	<b>23/05/2023 12:43:38</b>	<b>23/05/2023 12:43:40</b>	<b>Rejected</b>
	<b>23/05/2023 12:43:40</b>	<b>23/05/2023 12:43:41</b>	<b>No Data</b>
	<b>23/05/2023 12:43:41</b>	<b>23/05/2023 12:43:42</b>	<b>Rejected</b>
	23/05/2023 12:43:42	23/05/2023 12:49:33	Used

**E15**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:50</b>	<b>No Data</b>
	23/05/2023 12:43:50	23/05/2023 12:43:51	Used
	<b>23/05/2023 12:43:51</b>	<b>23/05/2023 12:43:58</b>	<b>Rejected</b>
	23/05/2023 12:43:58	23/05/2023 12:43:59	Used
	<b>23/05/2023 12:43:59</b>	<b>23/05/2023 12:44:20</b>	<b>Rejected</b>
	23/05/2023 12:44:20	23/05/2023 12:44:23	Used
	<b>23/05/2023 12:44:23</b>	<b>23/05/2023 12:44:48</b>	<b>Rejected</b>
	<b>23/05/2023 12:44:48</b>	<b>23/05/2023 12:44:49</b>	<b>No Data</b>
	<b>23/05/2023 12:44:49</b>	<b>23/05/2023 12:45:16</b>	<b>Rejected</b>
	23/05/2023 12:45:16	23/05/2023 12:45:25	Used
	<b>23/05/2023 12:45:25</b>	<b>23/05/2023 12:45:26</b>	<b>Rejected</b>
	23/05/2023 12:45:26	23/05/2023 12:45:30	Used
	<b>23/05/2023 12:45:30</b>	<b>23/05/2023 12:45:34</b>	<b>Rejected</b>
	<b>23/05/2023 12:45:34</b>	<b>23/05/2023 12:45:35</b>	<b>No Data</b>
	<b>23/05/2023 12:45:35</b>	<b>23/05/2023 12:46:03</b>	<b>Rejected</b>
	<b>23/05/2023 12:46:03</b>	<b>23/05/2023 12:46:05</b>	<b>No Data</b>
	<b>23/05/2023 12:46:05</b>	<b>23/05/2023 12:46:26</b>	<b>Rejected</b>
	<b>23/05/2023 12:46:26</b>	<b>23/05/2023 12:46:27</b>	<b>No Data</b>
	<b>23/05/2023 12:46:27</b>	<b>23/05/2023 12:46:29</b>	<b>Rejected</b>
	<b>23/05/2023 12:46:29</b>	<b>23/05/2023 12:46:30</b>	<b>No Data</b>
	<b>23/05/2023 12:46:30</b>	<b>23/05/2023 12:46:32</b>	<b>Rejected</b>
	<b>23/05/2023 12:46:32</b>	<b>23/05/2023 12:49:33</b>	<b>No Data</b>
	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:58</b>	<b>No Data</b>
<b>23/05/2023 12:43:58</b>	<b>23/05/2023 12:44:20</b>	<b>Rejected</b>	
23/05/2023 12:44:20	23/05/2023 12:44:34	Used	
<b>23/05/2023 12:44:34</b>	<b>23/05/2023 12:45:14</b>	<b>Rejected</b>	
23/05/2023 12:45:14	23/05/2023 12:45:25	Used	
<b>23/05/2023 12:45:25</b>	<b>23/05/2023 12:45:26</b>	<b>Rejected</b>	
23/05/2023 12:45:26	23/05/2023 12:45:35	Used	

E5a	23/05/2023 12:45:35	23/05/2023 12:45:36	Rejected
	23/05/2023 12:45:36	23/05/2023 12:46:03	Used
	23/05/2023 12:46:03	23/05/2023 12:46:12	Rejected
	23/05/2023 12:46:12	23/05/2023 12:46:14	Used
	23/05/2023 12:46:14	23/05/2023 12:46:22	Rejected
	23/05/2023 12:46:22	23/05/2023 12:46:26	Used
	23/05/2023 12:46:26	23/05/2023 12:46:28	Rejected
	23/05/2023 12:46:28	23/05/2023 12:46:29	Used
	23/05/2023 12:46:29	23/05/2023 12:47:46	Rejected
	23/05/2023 12:47:46	23/05/2023 12:48:21	Used
	23/05/2023 12:48:21	23/05/2023 12:48:22	Rejected
	23/05/2023 12:48:22	23/05/2023 12:48:29	Used
	23/05/2023 12:48:29	23/05/2023 12:48:30	Rejected
	23/05/2023 12:48:30	23/05/2023 12:48:33	Used
	23/05/2023 12:48:33	23/05/2023 12:48:48	Rejected
	23/05/2023 12:48:48	23/05/2023 12:48:49	No Data
	23/05/2023 12:48:49	23/05/2023 12:49:10	Rejected
	23/05/2023 12:49:10	23/05/2023 12:49:11	No Data
23/05/2023 12:49:11	23/05/2023 12:49:23	Rejected	
23/05/2023 12:49:23	23/05/2023 12:49:33	No Data	
E5b	23/05/2023 12:43:29	23/05/2023 12:43:50	No Data
	23/05/2023 12:43:50	23/05/2023 12:44:20	Rejected
	23/05/2023 12:44:20	23/05/2023 12:44:34	Used
	23/05/2023 12:44:34	23/05/2023 12:45:14	Rejected
	23/05/2023 12:45:14	23/05/2023 12:45:25	Used
	23/05/2023 12:45:25	23/05/2023 12:45:26	Rejected
	23/05/2023 12:45:26	23/05/2023 12:45:35	Used
	23/05/2023 12:45:35	23/05/2023 12:45:36	Rejected
	23/05/2023 12:45:36	23/05/2023 12:46:03	Used
	23/05/2023 12:46:03	23/05/2023 12:46:12	Rejected
	23/05/2023 12:46:12	23/05/2023 12:46:14	Used
	23/05/2023 12:46:14	23/05/2023 12:46:22	Rejected
	23/05/2023 12:46:22	23/05/2023 12:46:26	Used
	23/05/2023 12:46:26	23/05/2023 12:46:28	Rejected
	23/05/2023 12:46:28	23/05/2023 12:46:29	Used
	23/05/2023 12:46:29	23/05/2023 12:46:37	Rejected
	23/05/2023 12:46:37	23/05/2023 12:46:38	No Data
	23/05/2023 12:46:38	23/05/2023 12:47:03	Used
	23/05/2023 12:47:03	23/05/2023 12:47:04	Rejected
	23/05/2023 12:47:04	23/05/2023 12:47:21	Used
	23/05/2023 12:47:21	23/05/2023 12:47:22	Rejected
	23/05/2023 12:47:22	23/05/2023 12:47:38	Used
	23/05/2023 12:47:38	23/05/2023 12:47:46	Rejected
	23/05/2023 12:47:46	23/05/2023 12:48:21	Used
	23/05/2023 12:48:21	23/05/2023 12:48:22	Rejected
	23/05/2023 12:48:22	23/05/2023 12:48:25	Used
	23/05/2023 12:48:25	23/05/2023 12:48:50	Rejected
	23/05/2023 12:48:50	23/05/2023 12:48:57	Used
	23/05/2023 12:48:57	23/05/2023 12:49:10	Rejected
	23/05/2023 12:49:10	23/05/2023 12:49:11	Used
23/05/2023 12:49:11	23/05/2023 12:49:12	Rejected	
23/05/2023 12:49:12	23/05/2023 12:49:14	Used	
23/05/2023 12:49:14	23/05/2023 12:49:33	Rejected	
E5ab	23/05/2023 12:43:29	23/05/2023 12:43:53	No Data
	23/05/2023 12:43:53	23/05/2023 12:43:58	Rejected
	23/05/2023 12:43:58	23/05/2023 12:44:34	Used
	23/05/2023 12:44:34	23/05/2023 12:45:14	Rejected
	23/05/2023 12:45:14	23/05/2023 12:45:25	Used
	23/05/2023 12:45:25	23/05/2023 12:45:26	Rejected
	23/05/2023 12:45:26	23/05/2023 12:45:35	Used
	23/05/2023 12:45:35	23/05/2023 12:45:36	Rejected
	23/05/2023 12:45:36	23/05/2023 12:46:03	Used
	23/05/2023 12:46:03	23/05/2023 12:46:12	Rejected
	23/05/2023 12:46:12	23/05/2023 12:46:14	Used
	23/05/2023 12:46:14	23/05/2023 12:46:22	Rejected
	23/05/2023 12:46:22	23/05/2023 12:46:26	Used
	23/05/2023 12:46:26	23/05/2023 12:46:28	Rejected
	23/05/2023 12:46:28	23/05/2023 12:46:29	Used
	23/05/2023 12:46:29	23/05/2023 12:47:46	Rejected
	23/05/2023 12:47:46	23/05/2023 12:48:21	Used
	23/05/2023 12:48:21	23/05/2023 12:48:22	Rejected
23/05/2023 12:48:22	23/05/2023 12:48:49	Used	



	<b>23/05/2023 12:48:49</b>	<b>23/05/2023 12:48:50</b>	<b>Rejected</b>
	23/05/2023 12:48:50	23/05/2023 12:49:11	Used
	<b>23/05/2023 12:49:11</b>	<b>23/05/2023 12:49:12</b>	<b>Rejected</b>
	23/05/2023 12:49:12	23/05/2023 12:49:23	Used
	<b>23/05/2023 12:49:23</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>

E25

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:32</b>	<b>No Data</b>
	23/05/2023 12:43:32	23/05/2023 12:43:33	Used
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
E5a	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:33</b>	<b>No Data</b>
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
E5b	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:33</b>	<b>No Data</b>
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
E5ab	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:33</b>	<b>No Data</b>
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:43:36</b>	<b>Rejected</b>
	23/05/2023 12:43:36	23/05/2023 12:49:33	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:30</b>	<b>No Data</b>
	23/05/2023 12:43:30	23/05/2023 12:43:31	Used
	<b>23/05/2023 12:43:31</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
E5a	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:31</b>	<b>No Data</b>
	<b>23/05/2023 12:43:31</b>	<b>23/05/2023 12:43:32</b>	<b>Rejected</b>
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
E5b	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:31</b>	<b>No Data</b>
	<b>23/05/2023 12:43:31</b>	<b>23/05/2023 12:43:32</b>	<b>Rejected</b>
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used
E5ab	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:31</b>	<b>No Data</b>
	<b>23/05/2023 12:43:31</b>	<b>23/05/2023 12:43:32</b>	<b>Rejected</b>
	23/05/2023 12:43:32	23/05/2023 12:49:33	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
B2	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>
B3	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
B3	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
B2a	23/05/2023 12:43:29	23/05/2023 12:43:33	Used
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>

C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
B3	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
B2a	23/05/2023 12:43:29	23/05/2023 12:49:33	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
B3	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
B2a	23/05/2023 12:43:29	23/05/2023 12:43:33	Used
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>

C33

Frequency	From Epoch	To Epoch	Status

<b>B1</b>	23/05/2023 12:43:29	23/05/2023 12:49:33	Used
<b>B3</b>	<b>23/05/2023 12:43:29</b>	<b>23/05/2023 12:43:34</b>	<b>Rejected</b>
	23/05/2023 12:43:34	23/05/2023 12:49:33	Used
<b>B2a</b>	23/05/2023 12:43:29	23/05/2023 12:43:33	Used
	<b>23/05/2023 12:43:33</b>	<b>23/05/2023 12:49:33</b>	<b>Rejected</b>

## Cycle Slips

Slip Count: 108

SV	Frequency	Epoch	Slip Value	Flag
	E1	23/05/2023 12:43:58	-	Flagged
		23/05/2023 12:44:20	-	RIA
		23/05/2023 12:44:34	-	RIA
		23/05/2023 12:44:42	-	RIA
		23/05/2023 12:44:44	-	RIA
		23/05/2023 12:45:00	-	RIA
		23/05/2023 12:45:06	-	RIA
		23/05/2023 12:45:14	-	RIA
		23/05/2023 12:45:16	-	RIA
		23/05/2023 12:45:26	1.0000000000	Flagged
		23/05/2023 12:45:30	-	RIA
		23/05/2023 12:45:52	-	Flagged
		23/05/2023 12:45:54	-	RIA
		23/05/2023 12:45:56	-	RIA
		23/05/2023 12:46:10	-	RIA
		23/05/2023 12:46:12	-	RIA
		23/05/2023 12:46:22	-2.0000000000	Flagged
		23/05/2023 12:46:24	1.0000000000	Flagged
	E5a	23/05/2023 12:44:20	-	RIA
		23/05/2023 12:44:34	-	RIA
		23/05/2023 12:44:44	-	RIA
		23/05/2023 12:44:50	-	RIA
		23/05/2023 12:45:00	-	RIA
		23/05/2023 12:45:06	-	RIA
		23/05/2023 12:45:14	-	RIA
		23/05/2023 12:45:26	-	Flagged
		23/05/2023 12:45:34	-	Flagged
		23/05/2023 12:45:36	-	Flagged
		23/05/2023 12:45:42	-	Flagged
		23/05/2023 12:46:04	-	RIA
		23/05/2023 12:46:10	-	RIA
		23/05/2023 12:46:12	-	RIA
		23/05/2023 12:46:22	-	Flagged
		23/05/2023 12:46:24	-	Flagged
		23/05/2023 12:46:26	-	RIA
		23/05/2023 12:46:28	-	RIA
		23/05/2023 12:47:46	-	RIA
		23/05/2023 12:48:22	2.0000000000	Flagged
		23/05/2023 12:48:30	-	Flagged
		23/05/2023 12:48:32	-	Flagged
		23/05/2023 12:48:34	-	RIA
		23/05/2023 12:48:58	-	RIA
23/05/2023 12:49:06	-	RIA		
23/05/2023 12:49:14	-	RIA		
23/05/2023 12:49:16	-	RIA		
23/05/2023 12:49:22	-	RIA		
E15	23/05/2023 12:43:58	-	Flagged	
	23/05/2023 12:44:20	-	RIA	
	23/05/2023 12:44:34	-	RIA	
	23/05/2023 12:44:44	-	RIA	
	23/05/2023 12:44:50	-	RIA	
	23/05/2023 12:45:00	-	RIA	
	23/05/2023 12:45:06	-	RIA	
	23/05/2023 12:45:14	-	RIA	
	23/05/2023 12:45:26	-	Flagged	
	23/05/2023 12:45:34	-	Flagged	
	23/05/2023 12:45:36	-	Flagged	
	23/05/2023 12:45:42	-	Flagged	
23/05/2023 12:46:04	-	RIA		
23/05/2023 12:46:10	-	RIA		

		23/05/2023 12:46:12	-	RIA
		23/05/2023 12:46:22	-	Flagged
		23/05/2023 12:46:24	-	Flagged
	E5b	23/05/2023 12:46:26	-	RIA
		23/05/2023 12:46:28	-	RIA
		23/05/2023 12:46:38	10.0000000000	Flagged
		23/05/2023 12:47:04	-1.0000000000	Flagged
		23/05/2023 12:47:22	-	RIA
		23/05/2023 12:47:38	-	RIA
		23/05/2023 12:47:46	-	RIA
		23/05/2023 12:48:22	-	Flagged
		23/05/2023 12:48:26	-	RIA
		23/05/2023 12:48:40	1.0000000000	Flagged
		23/05/2023 12:48:48	-	Flagged
		23/05/2023 12:48:50	-	RIA
		23/05/2023 12:49:10	1.0000000000	Flagged
		23/05/2023 12:49:12	-	Flagged
		23/05/2023 12:49:14	-	RIA
		23/05/2023 12:49:22	-	RIA
		23/05/2023 12:49:24	-	RIA
		23/05/2023 12:49:32	-	RIA
		23/05/2023 12:43:58	-	RIA
		23/05/2023 12:44:20	-	RIA
		23/05/2023 12:44:34	-	RIA
		23/05/2023 12:44:44	-	RIA
		23/05/2023 12:44:50	-	RIA
		23/05/2023 12:45:00	-	RIA
		23/05/2023 12:45:06	-	RIA
		23/05/2023 12:45:14	-	RIA
		23/05/2023 12:45:26	-	Flagged
		23/05/2023 12:45:34	-	Flagged
		23/05/2023 12:45:36	-	Flagged
		23/05/2023 12:45:42	-	Flagged
	E5ab	23/05/2023 12:46:04	-	RIA
		23/05/2023 12:46:10	-	RIA
		23/05/2023 12:46:12	-	RIA
		23/05/2023 12:46:22	-	Flagged
		23/05/2023 12:46:24	-	Flagged
		23/05/2023 12:46:26	-	RIA
		23/05/2023 12:46:28	-	RIA
		23/05/2023 12:47:46	-	RIA
		23/05/2023 12:48:22	-	Flagged
		23/05/2023 12:48:48	-	Flagged
		23/05/2023 12:48:50	-	RIA
		23/05/2023 12:49:10	-	Flagged
		23/05/2023 12:49:12	-	Flagged
		23/05/2023 12:49:24	-	RIA
E25	E5ab	23/05/2023 12:43:36	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-4A

### Processing Parameters (23/05/2023 12:50:59 - 23/05/2023 12:57:35)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-4A

### Acquisition

Start Time - End Time:	23/05/2023 12:50:59 - 23/05/2023 12:57:35
Duration:	00:06:36

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-4A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-4A	Reference - MOQ01058	Rover - PAF-CU2-4A	
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 01' 50.55984" S	Easting:	318,107.441 m	314,344.057 m
WGS84 Longitude:	-	70° 44' 39.25518" W	Northing:	8,117,307.121 m	8,116,219.693 m
WGS84 Ellip. Height:	-	3,376.901 m	Ortho. Height:	3,897.429 m	3,335.844 m
WGS84 Cartesian X:	-	2,012,820.954 m			
WGS84 Cartesian Y:	-	-5,761,972.158 m			
WGS84 Cartesian Z:	-	-1,857,072.449 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 34.29083"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 07.56473"	SD ΔLongitude:	0.000 m
ΔHeight:	-562.010 m	SD ΔHeight:	0.000 m
ΔX:	-3,842.678 m	SD ΔX:	0.000 m

ΔY:	-447.230 m	SD ΔY:	0.000 m
ΔZ:	-843.974 m	SD ΔZ:	0.000 m
Slope Dist.:	3,959.606 m	SD Slope Dist.:	0.000 m

M0:	0.335 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000008	CQ 3D:	0.000 m
Q22:	0.00000032		
Q13:	-0.00000003		
Q23:	0.00000012		
Q33:	0.00000014		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.9 - 2.8	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.1 - 1.5	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.8	Beidou SVs:	4/4
		VDOP:	1.0 - 1.3	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (23/05/2023 12:50:59 - 23/05/2023 12:57:35)

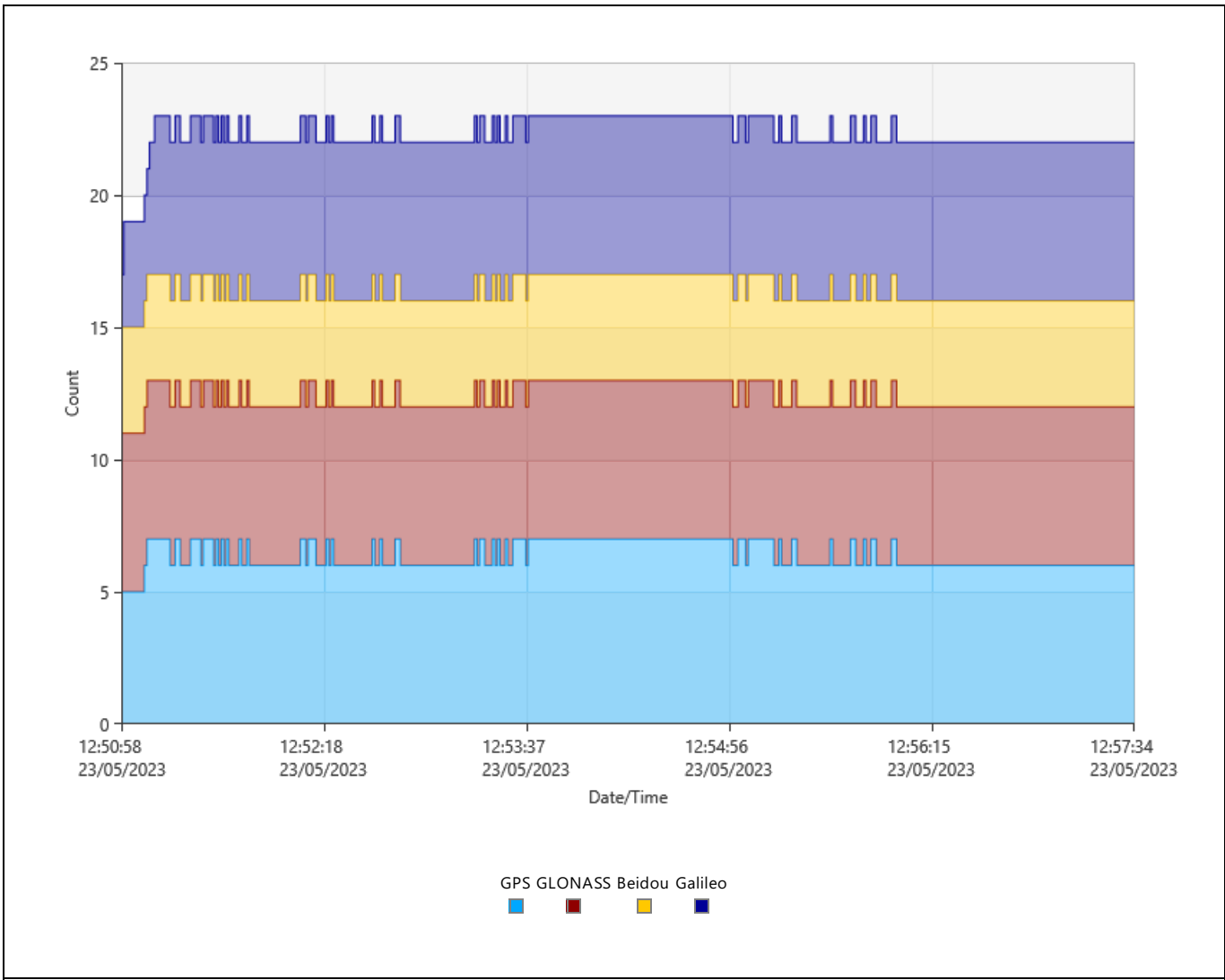
---

Processed Date/Time: 09/06/2023 17:54:21

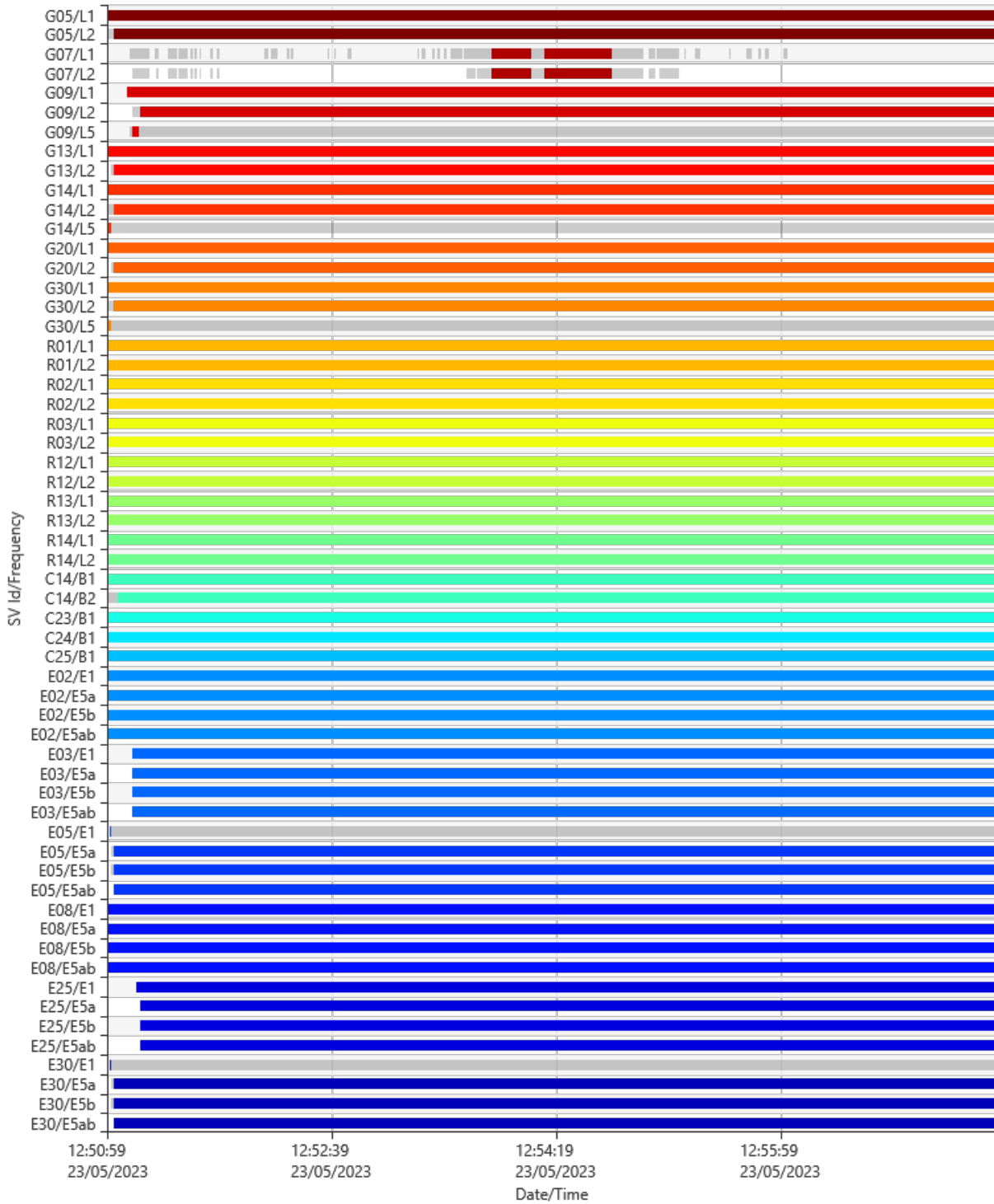
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G07 G09 G13 G14 G20 G30	-
GLONASS	R01 R02 R03 R12 R13 R14	-
Beidou	C14 C23 C24 C25	-
Galileo	E02 E03 E05 E08 E25 E30	-

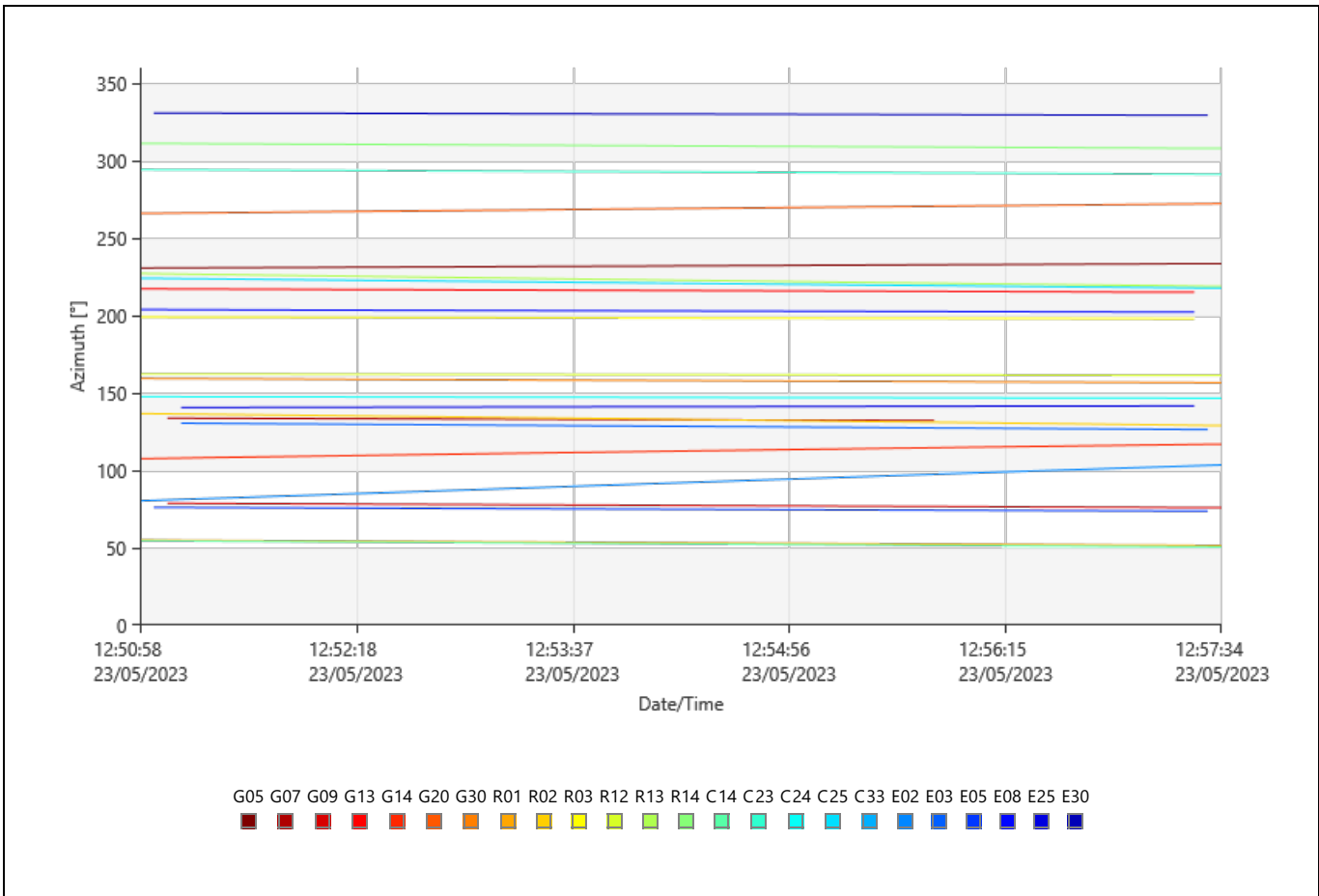
### SVs Tracked



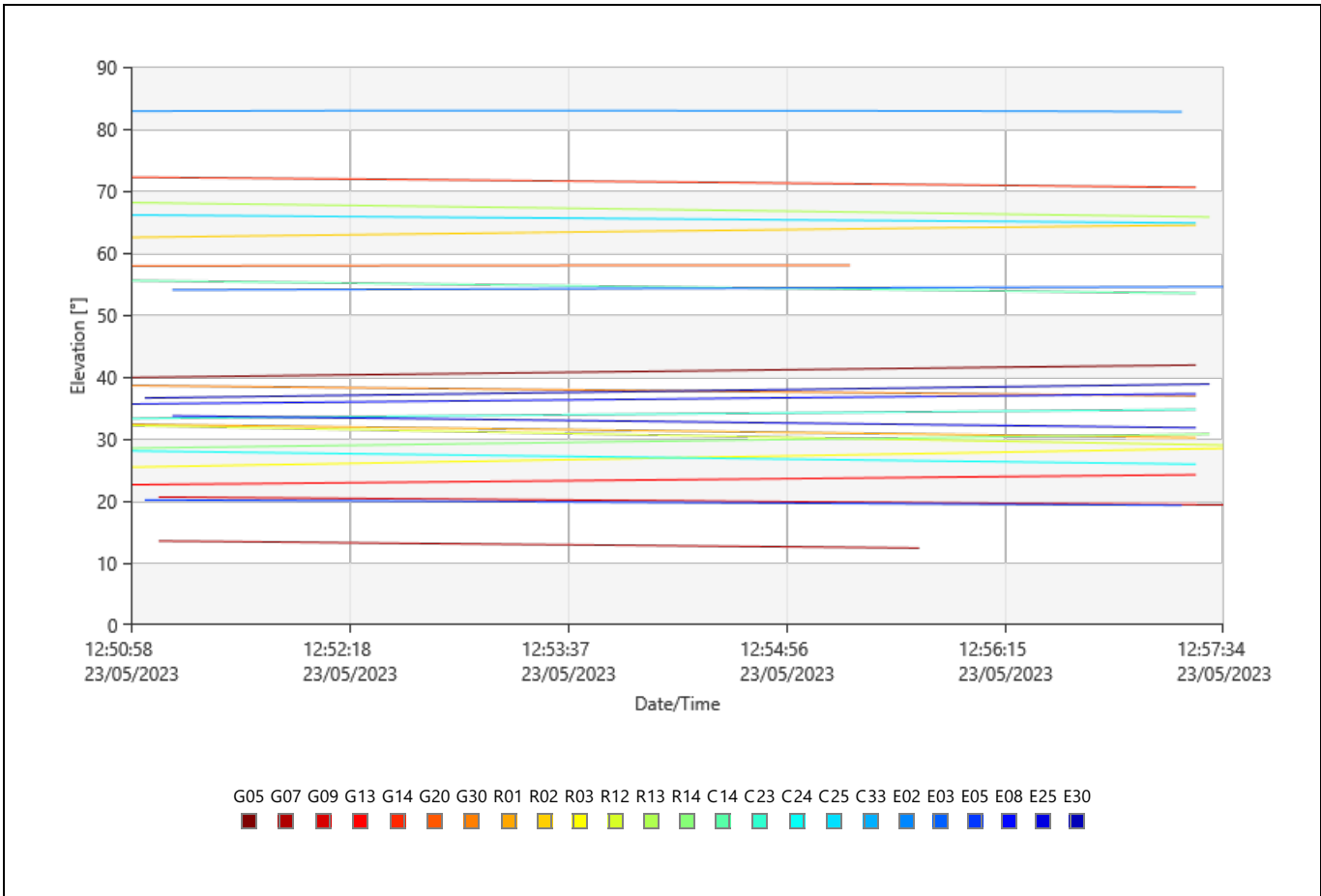
Signals Tracked



Azimuth

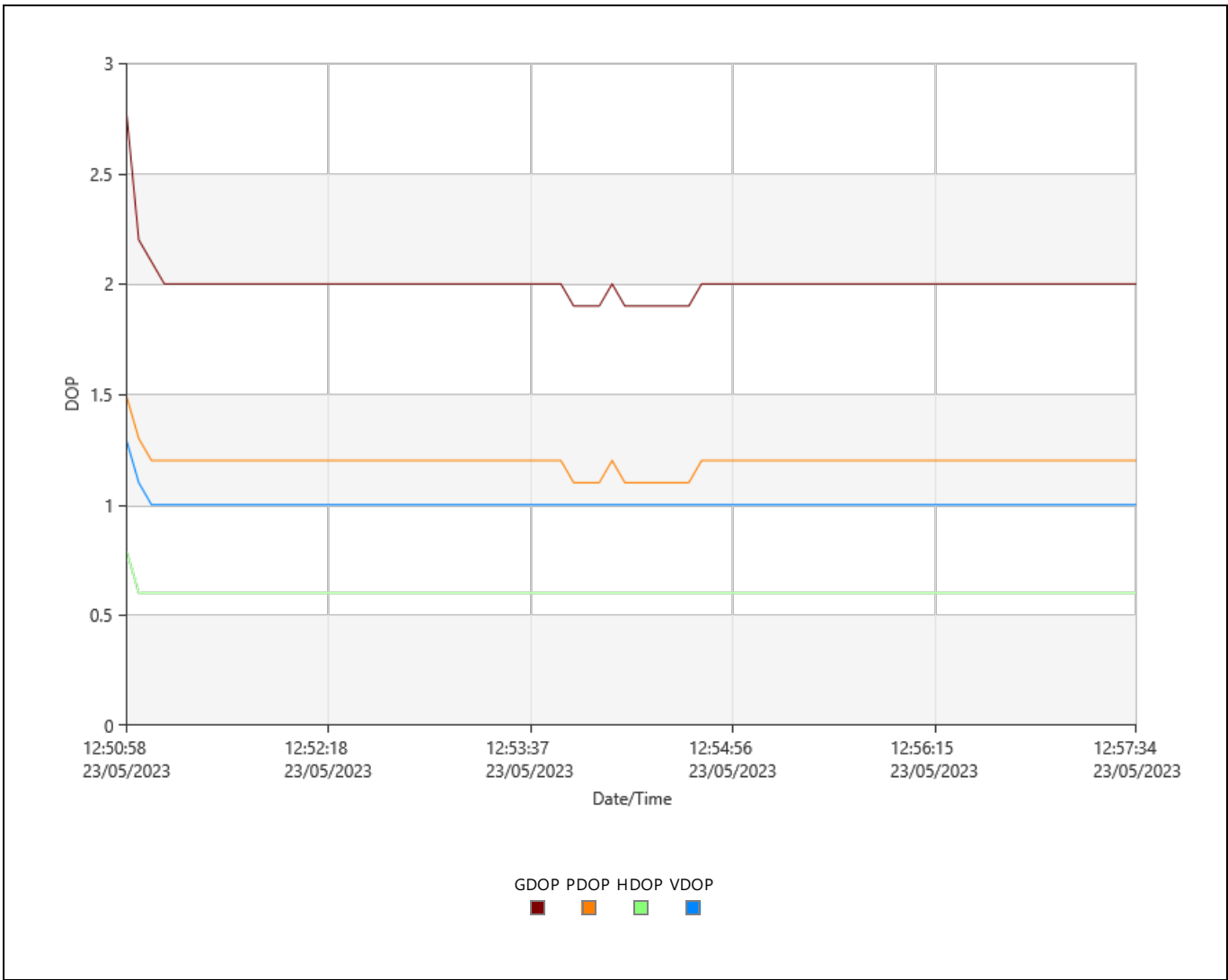


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 397

#### GPS Observations

Frequency	Used	Rejected
L1	2,421	102
L2	2,400	79
L5	7	1,174

#### GLONASS Observations

Frequency	Used	Rejected
L1	2,382	0
L2	2,382	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,588	0
B2	392	5

#### Galileo Observations

Frequency	Used	Rejected
E1	1,566	790
E5a	2,350	2
E5b	2,350	2
E5ab	2,350	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	19	12	5	24
Total	26	12	5	24
Independently fixed	49	49	49	49
Possible independently fixed	49	49	49	49

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.51	99.25	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Not fixed	0.49	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 12:50:59	23/05/2023 12:57:35	00:06:36

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:50:59	23/05/2023 12:51:01	Rejected
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
	23/05/2023 12:51:01	23/05/2023 12:57:35	No Data

#### G07

Frequency	From Epoch	To Epoch	Status
	23/05/2023 12:50:59	23/05/2023 12:51:09	No Data
	23/05/2023 12:51:09	23/05/2023 12:51:18	Rejected
	23/05/2023 12:51:18	23/05/2023 12:51:20	No Data
	23/05/2023 12:51:20	23/05/2023 12:51:22	Rejected
	23/05/2023 12:51:22	23/05/2023 12:51:26	No Data
	23/05/2023 12:51:26	23/05/2023 12:51:30	Rejected
	23/05/2023 12:51:30	23/05/2023 12:51:31	No Data
	23/05/2023 12:51:31	23/05/2023 12:51:35	Rejected
	23/05/2023 12:51:35	23/05/2023 12:51:36	No Data
	23/05/2023 12:51:36	23/05/2023 12:51:37	Rejected
	23/05/2023 12:51:37	23/05/2023 12:51:38	No Data
	23/05/2023 12:51:38	23/05/2023 12:51:39	Rejected
	23/05/2023 12:51:39	23/05/2023 12:51:40	No Data
	23/05/2023 12:51:40	23/05/2023 12:51:41	Rejected
	23/05/2023 12:51:41	23/05/2023 12:51:45	No Data
	23/05/2023 12:51:45	23/05/2023 12:51:46	Rejected
	23/05/2023 12:51:46	23/05/2023 12:51:48	No Data
	23/05/2023 12:51:48	23/05/2023 12:51:49	Rejected
	23/05/2023 12:51:49	23/05/2023 12:52:09	No Data
	23/05/2023 12:52:09	23/05/2023 12:52:11	Rejected
	23/05/2023 12:52:11	23/05/2023 12:52:12	No Data
	23/05/2023 12:52:12	23/05/2023 12:52:15	Rejected
	23/05/2023 12:52:15	23/05/2023 12:52:19	No Data
	23/05/2023 12:52:19	23/05/2023 12:52:20	Rejected
	23/05/2023 12:52:20	23/05/2023 12:52:21	No Data
	23/05/2023 12:52:21	23/05/2023 12:52:22	Rejected
	23/05/2023 12:52:22	23/05/2023 12:52:37	No Data
	23/05/2023 12:52:37	23/05/2023 12:52:38	Rejected
	23/05/2023 12:52:38	23/05/2023 12:52:40	No Data
	23/05/2023 12:52:40	23/05/2023 12:52:41	Rejected
	23/05/2023 12:52:41	23/05/2023 12:52:46	No Data
	23/05/2023 12:52:46	23/05/2023 12:52:48	Rejected
	23/05/2023 12:52:48	23/05/2023 12:53:17	No Data

L1	23/05/2023 12:53:17	23/05/2023 12:53:18	Rejected	
	23/05/2023 12:53:18	23/05/2023 12:53:19	No Data	
	23/05/2023 12:53:19	23/05/2023 12:53:21	Rejected	
	23/05/2023 12:53:21	23/05/2023 12:53:24	No Data	
	23/05/2023 12:53:24	23/05/2023 12:53:25	Rejected	
	23/05/2023 12:53:25	23/05/2023 12:53:26	No Data	
	23/05/2023 12:53:26	23/05/2023 12:53:27	Rejected	
	23/05/2023 12:53:27	23/05/2023 12:53:29	No Data	
	23/05/2023 12:53:29	23/05/2023 12:53:30	Rejected	
	23/05/2023 12:53:30	23/05/2023 12:53:32	No Data	
	23/05/2023 12:53:32	23/05/2023 12:53:37	Rejected	
	23/05/2023 12:53:37	23/05/2023 12:53:38	No Data	
	23/05/2023 12:53:38	23/05/2023 12:53:50	Rejected	
	23/05/2023 12:53:50	23/05/2023 12:54:08	Used	
	23/05/2023 12:54:08	23/05/2023 12:54:14	Rejected	
	23/05/2023 12:54:14	23/05/2023 12:54:44	Used	
	23/05/2023 12:54:44	23/05/2023 12:54:58	Rejected	
	23/05/2023 12:54:58	23/05/2023 12:55:00	No Data	
	23/05/2023 12:55:00	23/05/2023 12:55:03	Rejected	
	23/05/2023 12:55:03	23/05/2023 12:55:04	No Data	
	23/05/2023 12:55:04	23/05/2023 12:55:14	Rejected	
	23/05/2023 12:55:14	23/05/2023 12:55:16	No Data	
	23/05/2023 12:55:16	23/05/2023 12:55:17	Rejected	
	23/05/2023 12:55:17	23/05/2023 12:55:21	No Data	
	23/05/2023 12:55:21	23/05/2023 12:55:23	Rejected	
	23/05/2023 12:55:23	23/05/2023 12:55:36	No Data	
	23/05/2023 12:55:36	23/05/2023 12:55:37	Rejected	
	23/05/2023 12:55:37	23/05/2023 12:55:44	No Data	
	23/05/2023 12:55:44	23/05/2023 12:55:46	Rejected	
	23/05/2023 12:55:46	23/05/2023 12:55:49	No Data	
	23/05/2023 12:55:49	23/05/2023 12:55:50	Rejected	
	23/05/2023 12:55:50	23/05/2023 12:55:52	No Data	
	23/05/2023 12:55:52	23/05/2023 12:55:54	Rejected	
	23/05/2023 12:55:54	23/05/2023 12:56:00	No Data	
	23/05/2023 12:56:00	23/05/2023 12:56:02	Rejected	
	23/05/2023 12:56:02	23/05/2023 12:57:35	No Data	
	L2	23/05/2023 12:50:59	23/05/2023 12:51:10	No Data
		23/05/2023 12:50:59	23/05/2023 12:51:15	No Data
		23/05/2023 12:51:10	23/05/2023 12:51:15	Rejected
		23/05/2023 12:51:15	23/05/2023 12:51:18	Rejected
		23/05/2023 12:51:18	23/05/2023 12:51:21	No Data
		23/05/2023 12:51:21	23/05/2023 12:51:22	Rejected
		23/05/2023 12:51:22	23/05/2023 12:51:26	No Data
		23/05/2023 12:51:26	23/05/2023 12:51:30	Rejected
		23/05/2023 12:51:30	23/05/2023 12:51:31	No Data
		23/05/2023 12:51:31	23/05/2023 12:51:35	Rejected
		23/05/2023 12:51:35	23/05/2023 12:51:36	No Data
		23/05/2023 12:51:36	23/05/2023 12:51:37	Rejected
23/05/2023 12:51:37		23/05/2023 12:51:38	No Data	
23/05/2023 12:51:38		23/05/2023 12:51:39	Rejected	
23/05/2023 12:51:39		23/05/2023 12:51:40	No Data	
23/05/2023 12:51:40		23/05/2023 12:51:41	Rejected	
23/05/2023 12:51:41		23/05/2023 12:51:45	No Data	
23/05/2023 12:51:45		23/05/2023 12:51:46	Rejected	
23/05/2023 12:51:46		23/05/2023 12:51:48	No Data	
23/05/2023 12:51:48		23/05/2023 12:51:49	Rejected	
23/05/2023 12:51:49		23/05/2023 12:53:39	No Data	
23/05/2023 12:53:39		23/05/2023 12:53:43	Rejected	
23/05/2023 12:53:43		23/05/2023 12:53:44	No Data	
23/05/2023 12:53:44		23/05/2023 12:53:50	Rejected	
23/05/2023 12:53:50		23/05/2023 12:54:08	Used	
23/05/2023 12:54:08		23/05/2023 12:54:14	Rejected	
23/05/2023 12:54:14		23/05/2023 12:54:44	Used	
23/05/2023 12:54:44		23/05/2023 12:54:58	Rejected	
23/05/2023 12:54:58		23/05/2023 12:55:00	No Data	
23/05/2023 12:55:00		23/05/2023 12:55:03	Rejected	
23/05/2023 12:55:03		23/05/2023 12:55:05	No Data	
23/05/2023 12:55:05		23/05/2023 12:55:06	No Data	
23/05/2023 12:55:06		23/05/2023 12:55:06	Rejected	
23/05/2023 12:55:06		23/05/2023 12:55:14	Rejected	
23/05/2023 12:55:14		23/05/2023 12:57:35	No Data	
23/05/2023 12:55:06		23/05/2023 12:57:35	No Data	

## G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:51:08	No Data
	23/05/2023 12:51:08	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:10	No Data
	23/05/2023 12:50:59	23/05/2023 12:51:13	No Data
	23/05/2023 12:51:10	23/05/2023 12:51:13	Rejected
	23/05/2023 12:51:13	23/05/2023 12:51:14	Rejected
	23/05/2023 12:51:14	23/05/2023 12:57:35	Used
L5	23/05/2023 12:51:13	23/05/2023 12:57:35	No Data
	23/05/2023 12:50:59	23/05/2023 12:51:09	No Data
	23/05/2023 12:51:09	23/05/2023 12:51:10	Rejected
	23/05/2023 12:51:10	23/05/2023 12:51:13	Used
	23/05/2023 12:51:13	23/05/2023 12:57:35	Rejected

## G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used

## G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:50:59	23/05/2023 12:51:01	Rejected
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
	23/05/2023 12:51:01	23/05/2023 12:57:35	No Data
L5	23/05/2023 12:50:59	23/05/2023 12:51:01	Used
	23/05/2023 12:51:01	23/05/2023 12:57:35	Rejected

## G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used

## G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:50:59	23/05/2023 12:51:01	Rejected
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
	23/05/2023 12:51:01	23/05/2023 12:57:35	No Data
L5	23/05/2023 12:50:59	23/05/2023 12:51:01	Used
	23/05/2023 12:51:01	23/05/2023 12:57:35	Rejected

## R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

## R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

## R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

## R12

Frequency	From Epoch	To Epoch	Status

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
L2	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5a	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5b	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5ab	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:10</b>	<b>No Data</b>
	23/05/2023 12:51:10	23/05/2023 12:57:35	Used
E5a	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:10</b>	<b>No Data</b>
	23/05/2023 12:51:10	23/05/2023 12:57:35	Used
E5b	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:10</b>	<b>No Data</b>
	23/05/2023 12:51:10	23/05/2023 12:57:35	Used
E5ab	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:10</b>	<b>No Data</b>
	23/05/2023 12:51:10	23/05/2023 12:57:35	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:00</b>	<b>No Data</b>
	23/05/2023 12:51:00	23/05/2023 12:51:01	Used
	<b>23/05/2023 12:51:01</b>	<b>23/05/2023 12:57:35</b>	<b>Rejected</b>
E5a	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:01</b>	<b>No Data</b>
	<b>23/05/2023 12:51:01</b>	<b>23/05/2023 12:51:02</b>	<b>Rejected</b>
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
E5b	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:01</b>	<b>No Data</b>
	<b>23/05/2023 12:51:01</b>	<b>23/05/2023 12:51:02</b>	<b>Rejected</b>
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
E5ab	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:02</b>	<b>No Data</b>
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5a	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5b	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
E5ab	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:12</b>	<b>No Data</b>
	23/05/2023 12:51:12	23/05/2023 12:57:35	Used
E5a	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:14</b>	<b>No Data</b>
	23/05/2023 12:51:14	23/05/2023 12:57:35	Used
E5b	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:14</b>	<b>No Data</b>
	23/05/2023 12:51:14	23/05/2023 12:57:35	Used
E5ab	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:14</b>	<b>No Data</b>
	23/05/2023 12:51:14	23/05/2023 12:57:35	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 12:50:59</b>	<b>23/05/2023 12:51:00</b>	<b>No Data</b>
	23/05/2023 12:51:00	23/05/2023 12:51:01	Used

	23/05/2023 12:51:01	23/05/2023 12:57:35	Rejected
E5a	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
E5b	23/05/2023 12:50:59	23/05/2023 12:51:01	No Data
	23/05/2023 12:51:01	23/05/2023 12:51:02	Rejected
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used
E5ab	23/05/2023 12:50:59	23/05/2023 12:51:02	No Data
	23/05/2023 12:51:02	23/05/2023 12:57:35	Used

#### C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used
B2	23/05/2023 12:50:59	23/05/2023 12:51:04	Rejected
	23/05/2023 12:51:04	23/05/2023 12:57:35	Used

#### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

#### C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

#### C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 12:50:59	23/05/2023 12:57:35	Used

### Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
G07	L2	23/05/2023 12:51:14	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

### Processing Messages

#### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-5B

### Processing Parameters (23/05/2023 13:00:26 - 23/05/2023 13:07:25)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Lono Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-5B

### Acquisition

Start Time - End Time: 23/05/2023 13:00:26 - 23/05/2023 13:07:25  
Duration: 00:06:59

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-5B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-5B	Reference - MOQ01058	Rover - PAF-CU2-5B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 54.89328" S	Easting: 318,107.441 m	315,734.461 m
WGS84 Longitude:	-	70° 43' 52.28080" W	Northing: 8,117,307.121 m	8,116,098.823 m
WGS84 Ellip. Height:	-	3,476.191 m	Ortho. Height: 3,897.429 m	3,435.005 m
WGS84 Cartesian X:	-	2,014,151.569 m		
WGS84 Cartesian Y:	-	-5,761,566.377 m		
WGS84 Cartesian Z:	-	-1,857,228.973 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 38.62427"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 20.59035"	SD ΔLongitude:	0.000 m
ΔHeight:	-462.720 m	SD ΔHeight:	0.000 m
ΔX:	-2,512.063 m	SD ΔX:	0.000 m
ΔY:	-41.449 m	SD ΔY:	0.000 m
ΔZ:	-1,000.499 m	SD ΔZ:	0.000 m
Slope Dist.:	2,704.289 m	SD Slope Dist.:	0.000 m

M0:	0.264 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000005	CQ 3D:	0.000 m
Q22:	0.00000032		
Q13:	-0.00000001		
Q23:	0.00000011		

Q33: 0.00000011

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 2.3	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.2 - 1.4	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.0 - 1.2	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

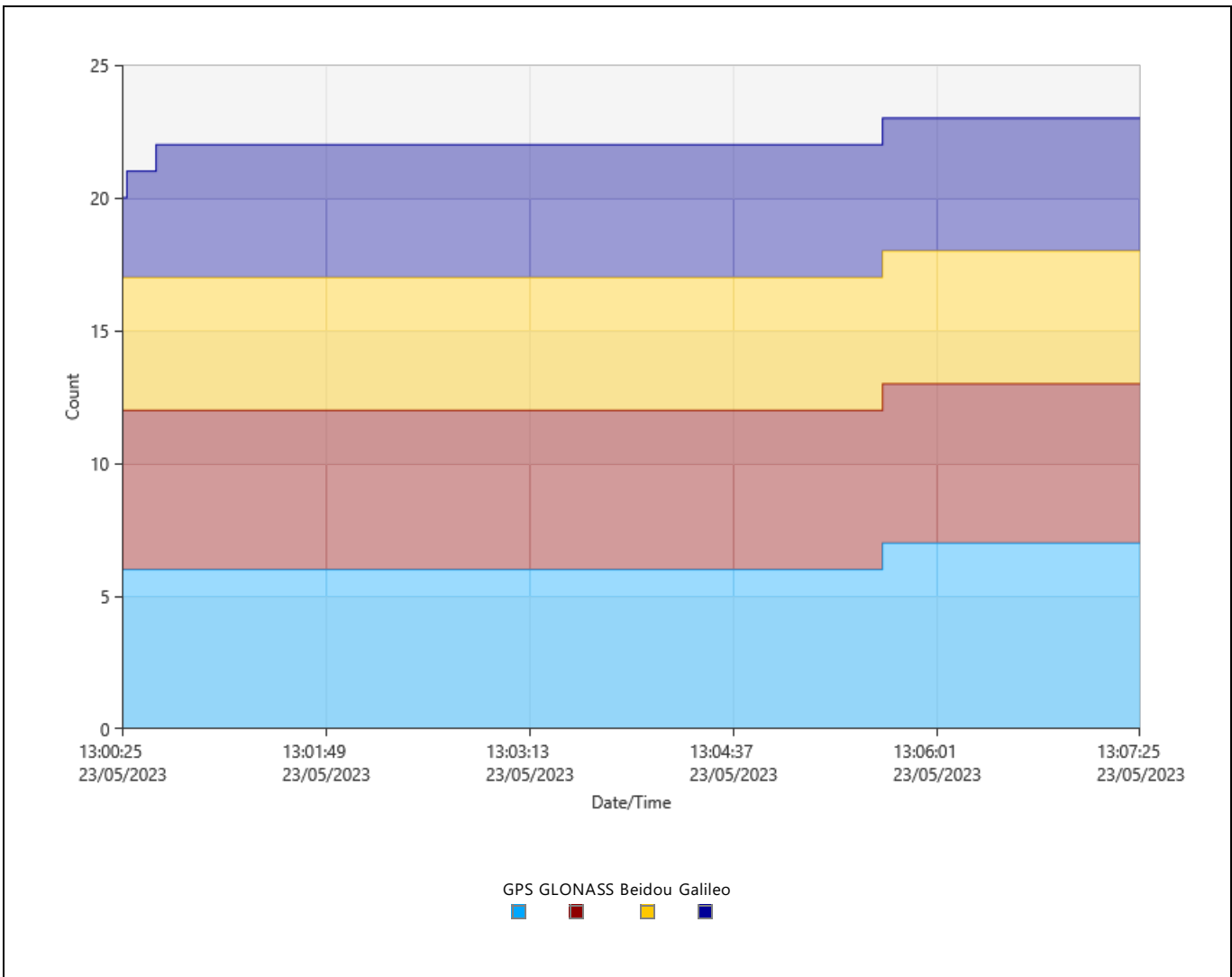
### Processing Info (23/05/2023 13:00:26 - 23/05/2023 13:07:25)

Processed Date/Time: 09/06/2023 17:54:21

### Satellites

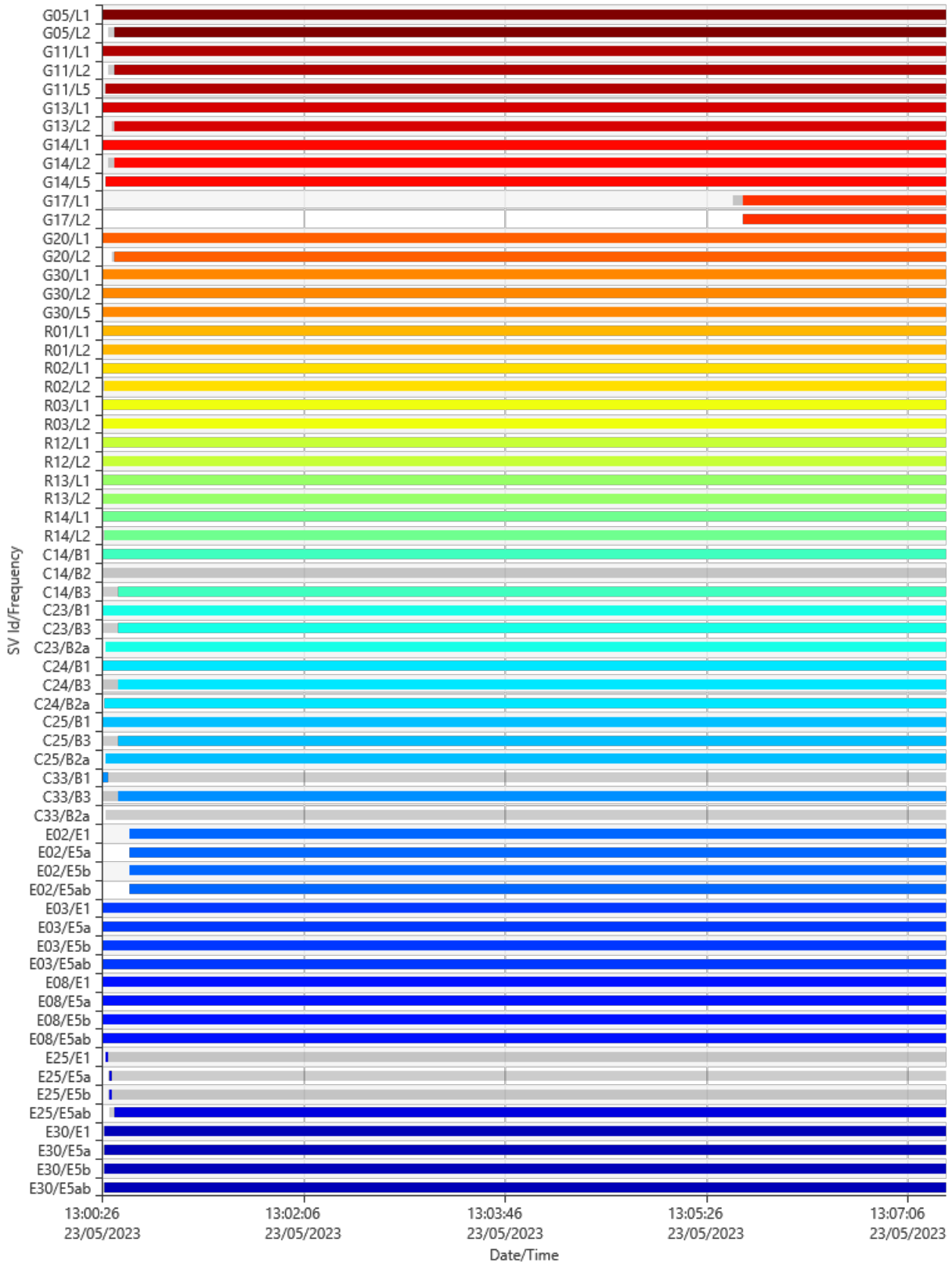
Satellite System	Used	Manually Disabled
GPS	G05 G11 G13 G14 G17 G20 G30	-
GLONASS	R01 R02 R03 R12 R13 R14	-
Beidou	C14 C23 C24 C25 C33	-
Galileo	E02 E03 E08 E25 E30	-

### SVs Tracked

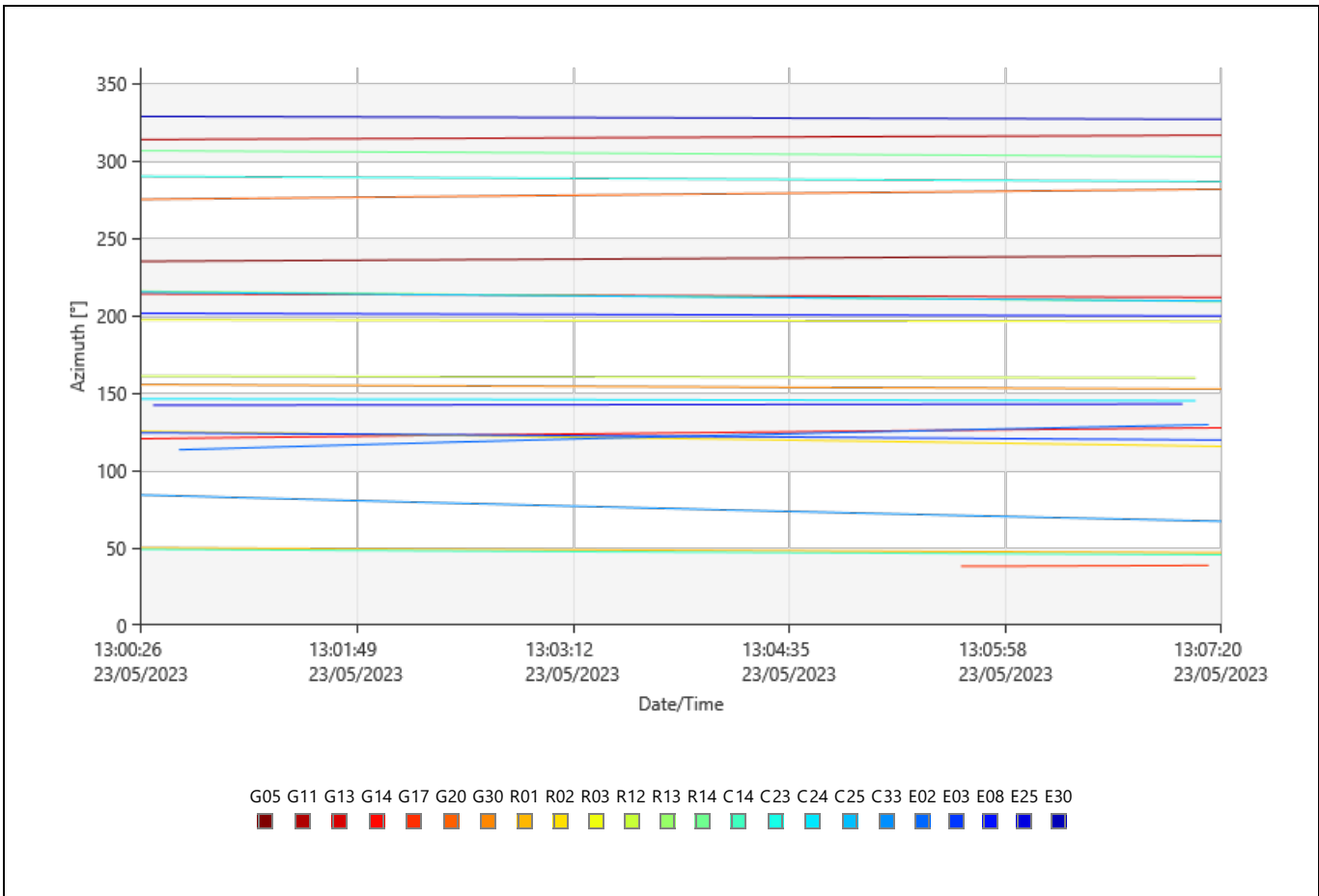


### Signals Tracked

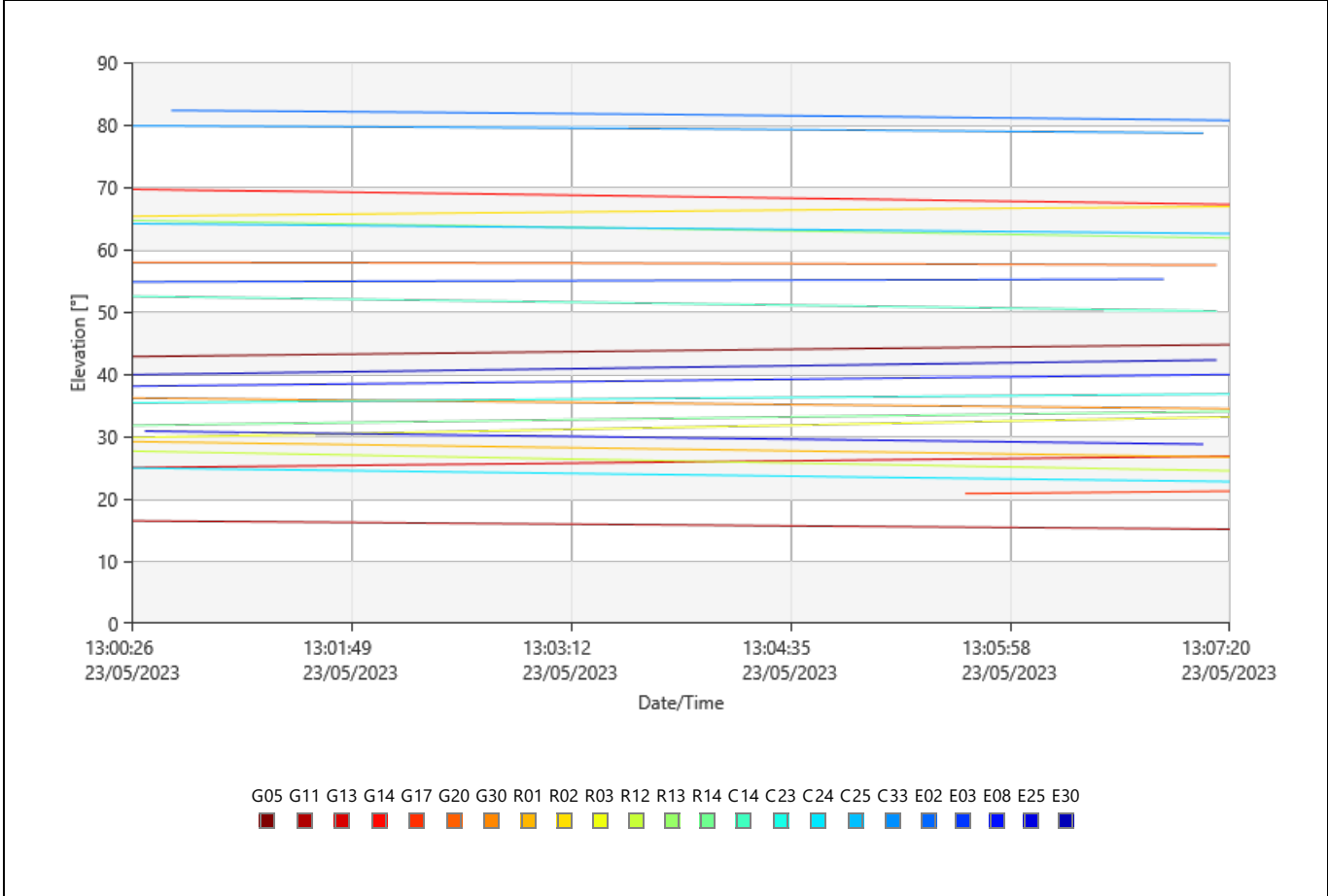




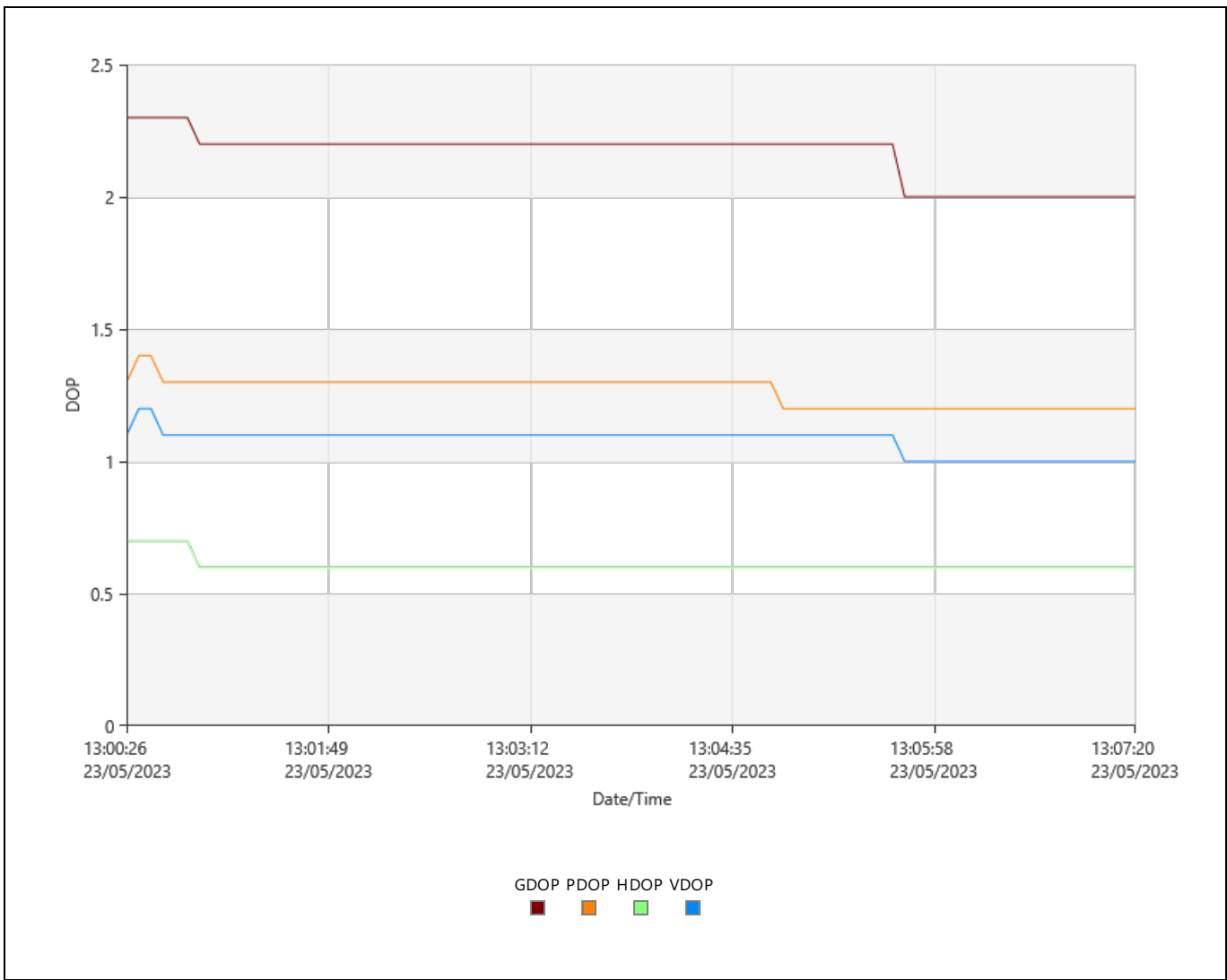
Azimuth



Elevation



DOP



### Observation Statistics

Common Epochs: 420

#### GPS Observations

Frequency	Used	Rejected
L1	2,622	5
L2	2,592	11
L5	1,256	1

#### GLONASS Observations

Frequency	Used	Rejected
L1	2,520	0
L2	2,518	2

#### Beidou Observations

Frequency	Used	Rejected
B1	1,683	417
B2	0	420
B3	2,060	40
B2a	1,255	418

#### Galileo Observations

Frequency	Used	Rejected
E1	1,666	418
E5a	1,666	417
E5b	1,666	417
E5ab	2,079	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	17	12	14	20
Total	17	12	15	25
Independently fixed	52	52	52	52
Possible independently fixed	52	52	52	52

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	99.95	99.95	99.95	99.86
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.05	0.05	0.05	0.14
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 13:00:26	23/05/2023 13:07:25	00:06:59

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:29	No Data
	23/05/2023 13:00:26	23/05/2023 13:00:31	No Data
	23/05/2023 13:00:29	23/05/2023 13:00:31	Rejected
	23/05/2023 13:00:31	23/05/2023 13:00:32	Rejected
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used
	23/05/2023 13:00:31	23/05/2023 13:07:25	No Data

#### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:29	No Data
	23/05/2023 13:00:26	23/05/2023 13:00:31	No Data
	23/05/2023 13:00:29	23/05/2023 13:00:31	Rejected
	23/05/2023 13:00:31	23/05/2023 13:00:32	Rejected
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used
	23/05/2023 13:00:31	23/05/2023 13:07:25	No Data
L5	23/05/2023 13:00:26	23/05/2023 13:00:27	No Data
	23/05/2023 13:00:27	23/05/2023 13:00:28	Rejected
	23/05/2023 13:00:28	23/05/2023 13:07:25	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:31	No Data
	23/05/2023 13:00:31	23/05/2023 13:00:32	Rejected
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:29	No Data
	23/05/2023 13:00:26	23/05/2023 13:00:31	No Data
	23/05/2023 13:00:29	23/05/2023 13:00:31	Rejected
	23/05/2023 13:00:31	23/05/2023 13:00:32	Rejected
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used
	23/05/2023 13:00:31	23/05/2023 13:07:25	No Data
L5	23/05/2023 13:00:26	23/05/2023 13:00:28	No Data
	23/05/2023 13:00:28	23/05/2023 13:07:25	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:05:39	No Data
	23/05/2023 13:05:39	23/05/2023 13:05:44	Rejected
	23/05/2023 13:05:44	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:05:44	No Data
	23/05/2023 13:05:44	23/05/2023 13:07:25	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:31	No Data
	23/05/2023 13:00:31	23/05/2023 13:00:32	Rejected
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L5	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:27	Rejected
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
L2	23/05/2023 13:00:26	23/05/2023 13:00:27	Rejected
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:00:26	23/05/2023 13:00:40	No Data
	23/05/2023 13:00:40	23/05/2023 13:07:25	Used
E5a	23/05/2023 13:00:26	23/05/2023 13:00:40	No Data
	23/05/2023 13:00:40	23/05/2023 13:07:25	Used
E5b	23/05/2023 13:00:26	23/05/2023 13:00:40	No Data
	23/05/2023 13:00:40	23/05/2023 13:07:25	Used
E5ab	23/05/2023 13:00:26	23/05/2023 13:00:40	No Data
	23/05/2023 13:00:40	23/05/2023 13:07:25	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
E5a	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

<b>E5b</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>E5ab</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

**E08**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>E5a</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>E5b</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>E5ab</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used

**E25**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:28</b>	<b>No Data</b>
	23/05/2023 13:00:28	23/05/2023 13:00:29	Used
	<b>23/05/2023 13:00:29</b>	<b>23/05/2023 13:07:25</b>	<b>Rejected</b>
<b>E5a</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:29</b>	<b>No Data</b>
	<b>23/05/2023 13:00:29</b>	<b>23/05/2023 13:00:30</b>	<b>Rejected</b>
	23/05/2023 13:00:30	23/05/2023 13:00:31	Used
<b>E5b</b>	<b>23/05/2023 13:00:31</b>	<b>23/05/2023 13:07:25</b>	<b>Rejected</b>
	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:29</b>	<b>No Data</b>
	<b>23/05/2023 13:00:29</b>	<b>23/05/2023 13:00:30</b>	<b>Rejected</b>
<b>E5ab</b>	23/05/2023 13:00:30	23/05/2023 13:00:31	Used
	<b>23/05/2023 13:00:31</b>	<b>23/05/2023 13:07:25</b>	<b>Rejected</b>
	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:30</b>	<b>No Data</b>
<b>E5ab</b>	<b>23/05/2023 13:00:30</b>	<b>23/05/2023 13:00:32</b>	<b>Rejected</b>
	23/05/2023 13:00:32	23/05/2023 13:07:25	Used

**E30**

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:27</b>	<b>Rejected</b>
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used
<b>E5a</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:27</b>	<b>Rejected</b>
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used
<b>E5b</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:27</b>	<b>Rejected</b>
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used
<b>E5ab</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:27</b>	<b>Rejected</b>
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used

**C14**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>B2</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:07:25</b>	<b>Rejected</b>
<b>B3</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:34</b>	<b>Rejected</b>
	23/05/2023 13:00:34	23/05/2023 13:07:25	Used

**C23**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>B3</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:34</b>	<b>Rejected</b>
	23/05/2023 13:00:34	23/05/2023 13:07:25	Used
<b>B2a</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:28</b>	<b>No Data</b>
	23/05/2023 13:00:28	23/05/2023 13:07:25	Used

**C24**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>B3</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:34</b>	<b>Rejected</b>
	23/05/2023 13:00:34	23/05/2023 13:07:25	Used
<b>B2a</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:27</b>	<b>No Data</b>
	23/05/2023 13:00:27	23/05/2023 13:07:25	Used

**C25**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	23/05/2023 13:00:26	23/05/2023 13:07:25	Used
<b>B3</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:34</b>	<b>Rejected</b>
	23/05/2023 13:00:34	23/05/2023 13:07:25	Used
<b>B2a</b>	<b>23/05/2023 13:00:26</b>	<b>23/05/2023 13:00:28</b>	<b>No Data</b>
	23/05/2023 13:00:28	23/05/2023 13:07:25	Used

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 13:00:26	23/05/2023 13:00:29	Used
	23/05/2023 13:00:29	23/05/2023 13:07:25	Rejected
B3	23/05/2023 13:00:26	23/05/2023 13:00:34	Rejected
	23/05/2023 13:00:34	23/05/2023 13:07:25	Used
B2a	23/05/2023 13:00:26	23/05/2023 13:00:28	No Data
	23/05/2023 13:00:28	23/05/2023 13:07:25	Rejected

## Cycle Slips

Slip Count: 5

SV	Frequency	Epoch	Slip Value	Flag
E30	E1	23/05/2023 13:00:27	-	RIA
	E5a	23/05/2023 13:00:27	-	RIA
	E5b	23/05/2023 13:00:27	-	RIA
	E5ab	23/05/2023 13:00:27	-	RIA
E25	E5ab	23/05/2023 13:00:32	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-5A

### Processing Parameters (23/05/2023 13:04:32 - 23/05/2023 13:10:57)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Acquisition

Start Time - End Time: 23/05/2023 13:04:32 - 23/05/2023 13:10:57  
Duration: 00:06:25

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-5A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-5A	Reference - MOQ01058	Rover - PAF-CU2-5A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 57.12889" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 44' 54.95177" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,364.395 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,012,359.012 m		
WGS84 Cartesian Y:	-	-5,762,058.156 m		
WGS84 Cartesian Z:	-	-1,857,261.975 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 40.85988"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 23.26133"	SD ΔLongitude:	0.000 m
ΔHeight:	-574.516 m	SD ΔHeight:	0.000 m
ΔX:	-4,304.621 m	SD ΔX:	0.000 m
ΔY:	-533.228 m	SD ΔY:	0.000 m
ΔZ:	-1,033.500 m	SD ΔZ:	0.000 m
Slope Dist.:	4,458.948 m	SD Slope Dist.:	0.000 m

M0:	0.396 m	CQ 1D:	0.000 m
Q11:	0.00000011	CQ 2D:	0.000 m
Q12:	-0.00000010	CQ 3D:	0.000 m
Q22:	0.00000034		
Q13:	-0.00000004		
Q23:	0.00000009		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.2 - 2.4	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.3 - 1.4	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	4/4
		VDOP:	1.1 - 1.2	Galileo SVs:	5/6
				QZSS SVs:	-

## Ephemeris Type:

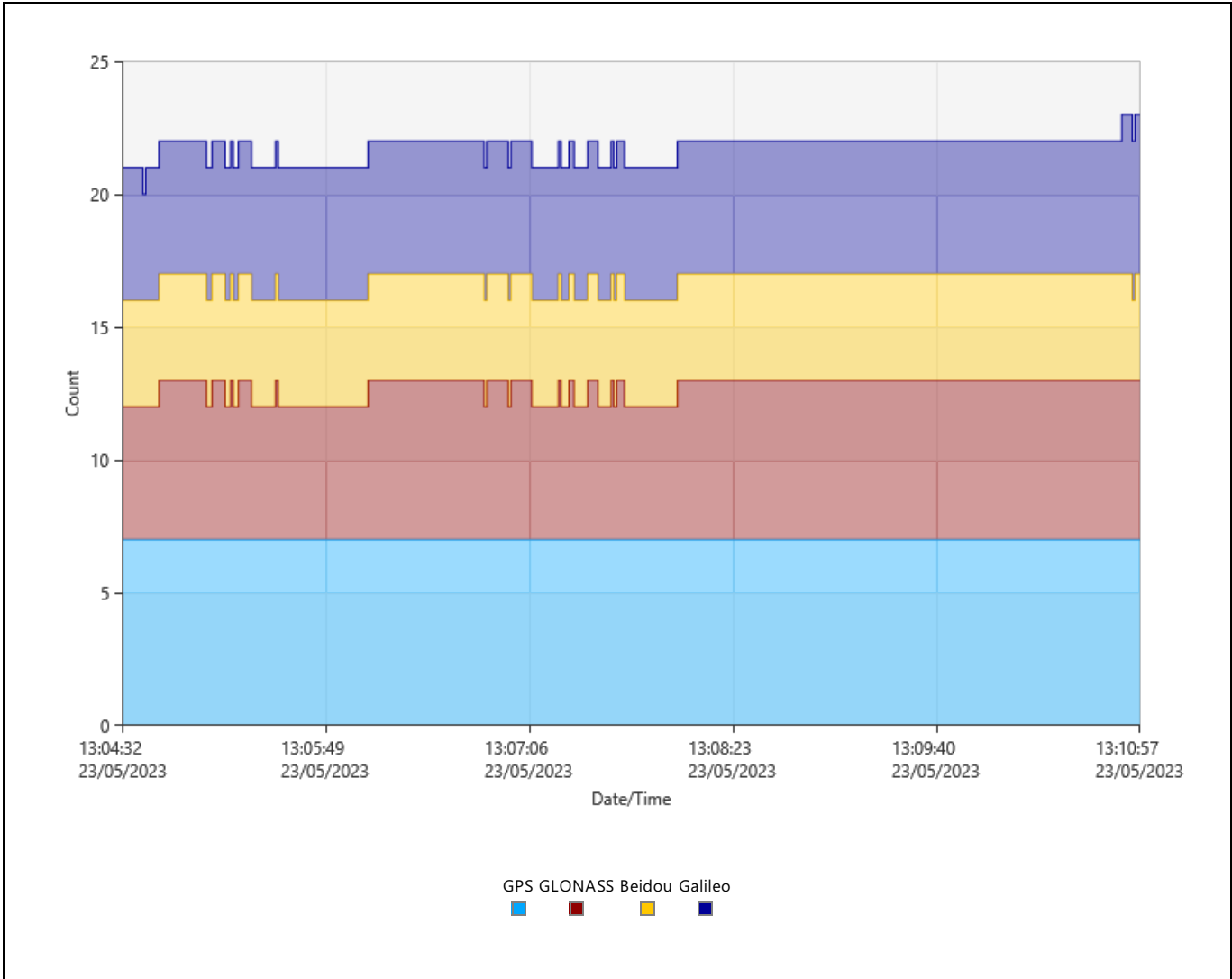
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise



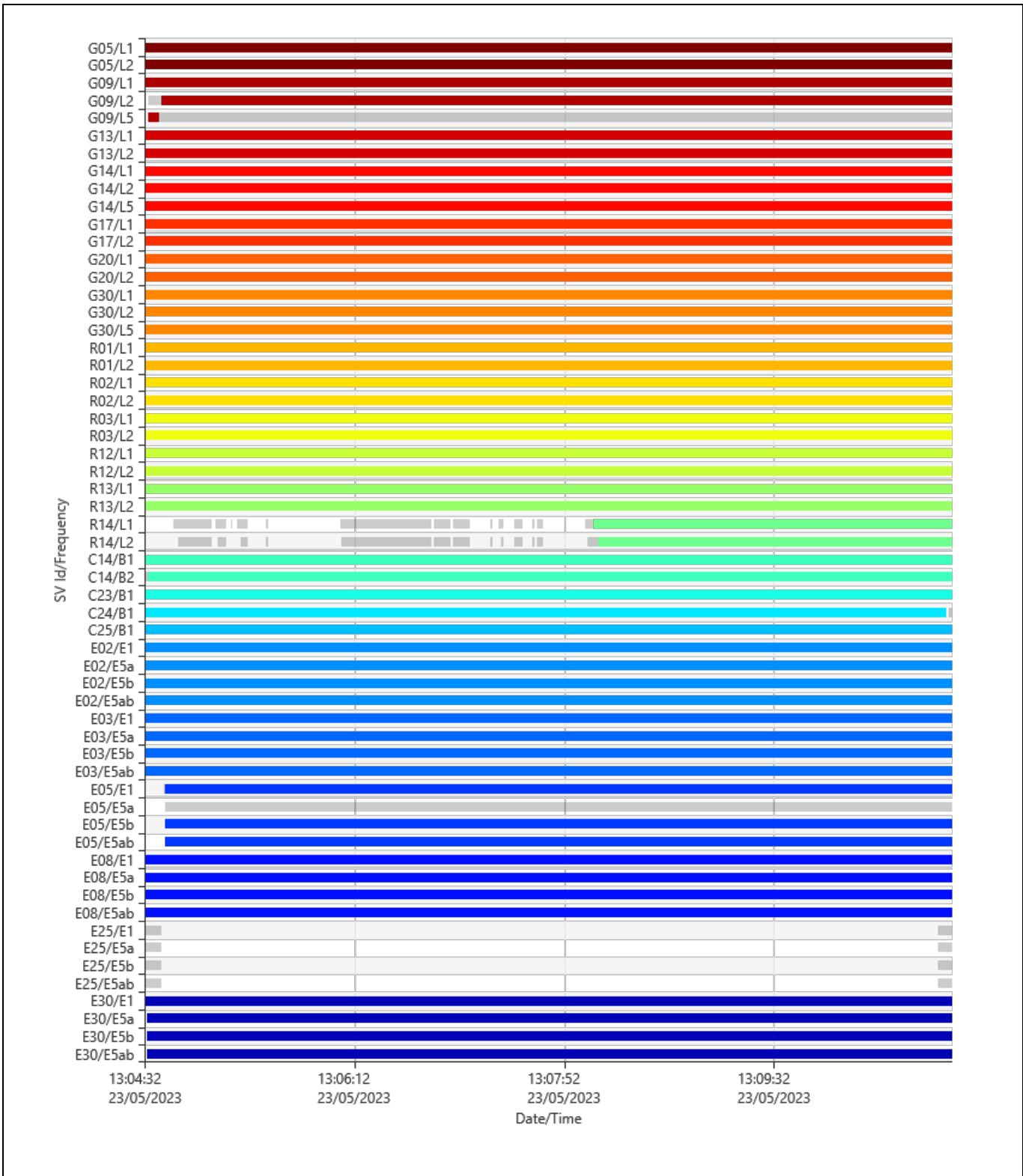
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G09 G13 G14 G17 G20 G30	-
GLONASS	R01 R02 R03 R12 R13 R14	-
Beidou	C14 C23 C24 C25	-
Galileo	E02 E03 E05 E08 E30	-

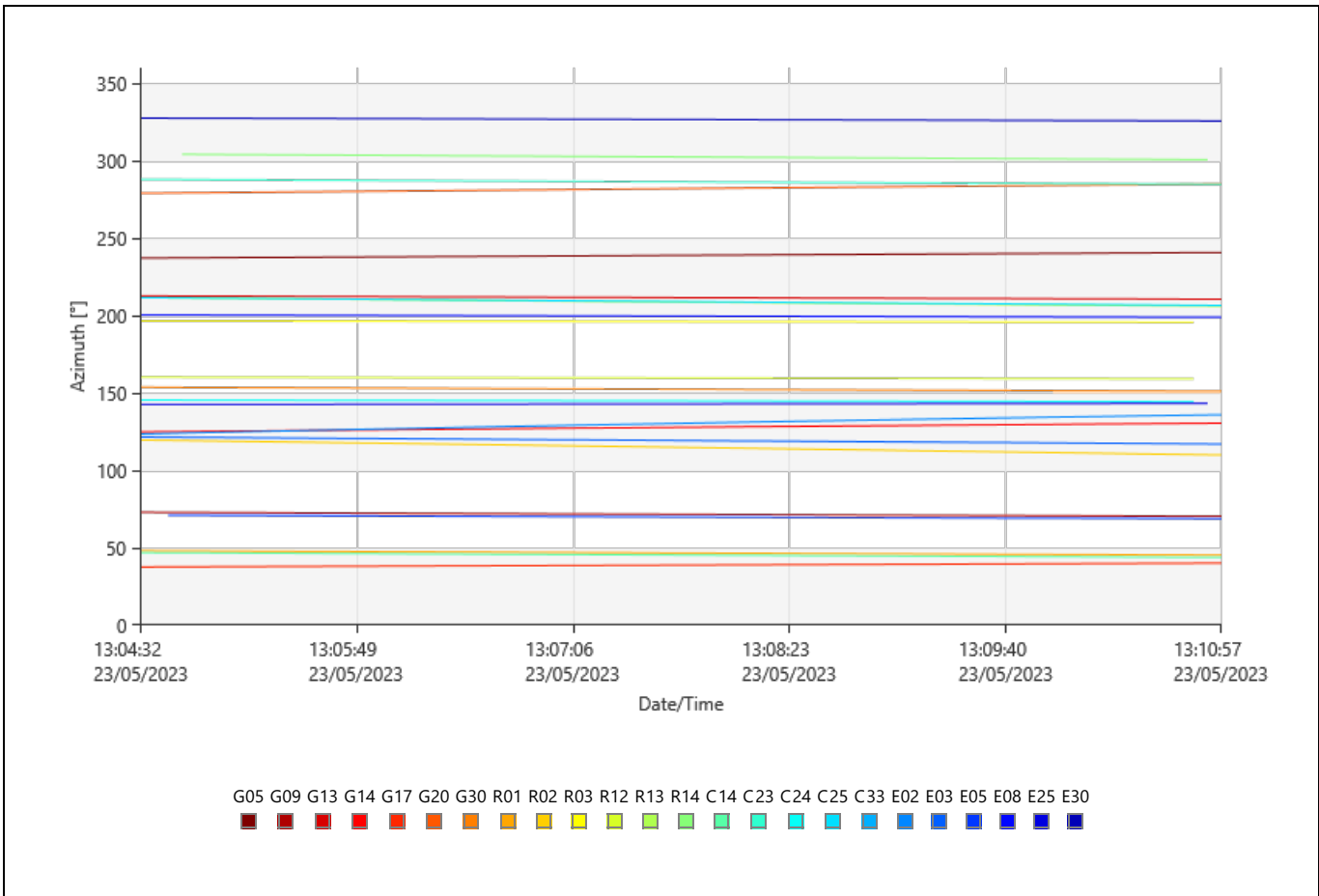
### SVs Tracked



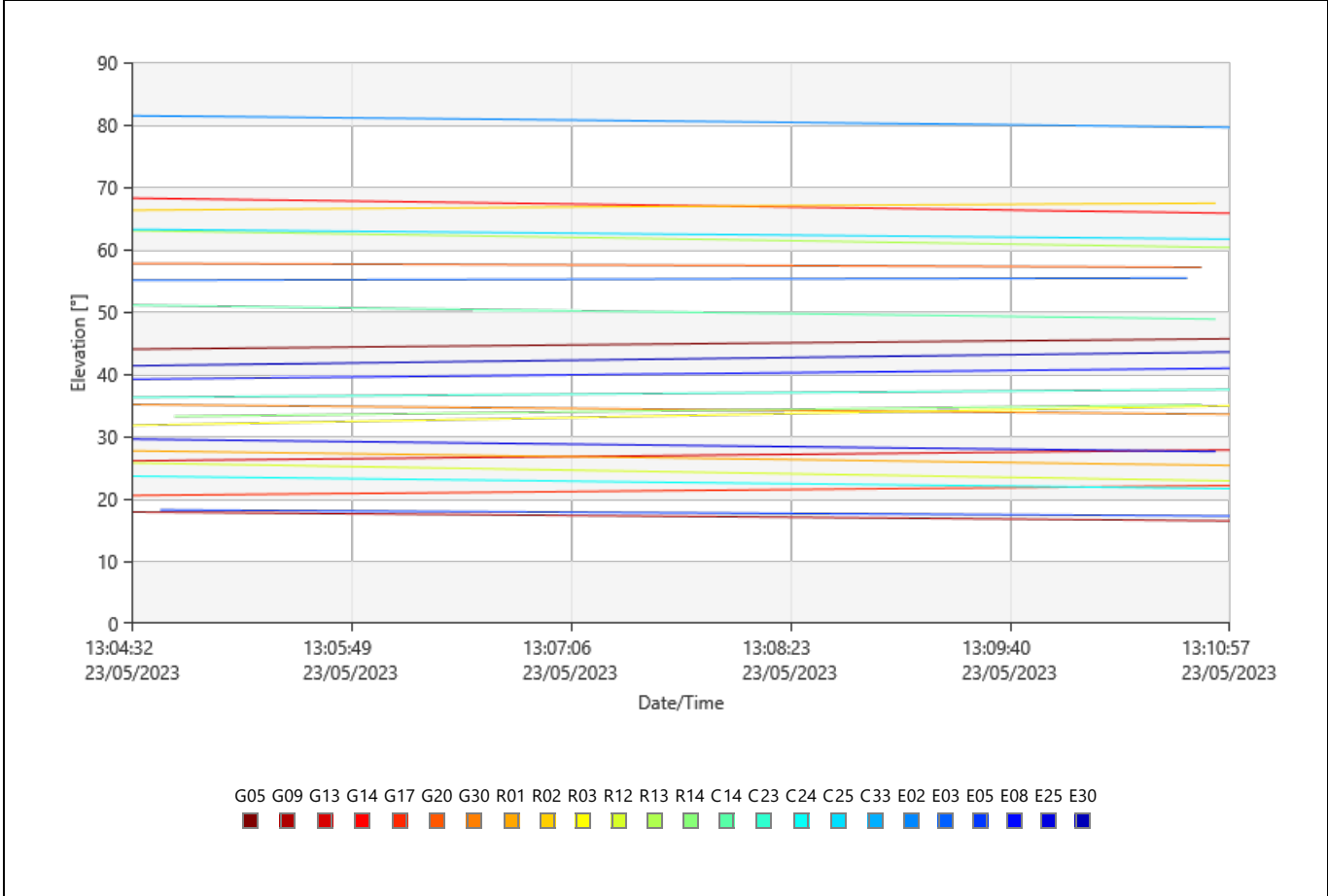
### Signals Tracked



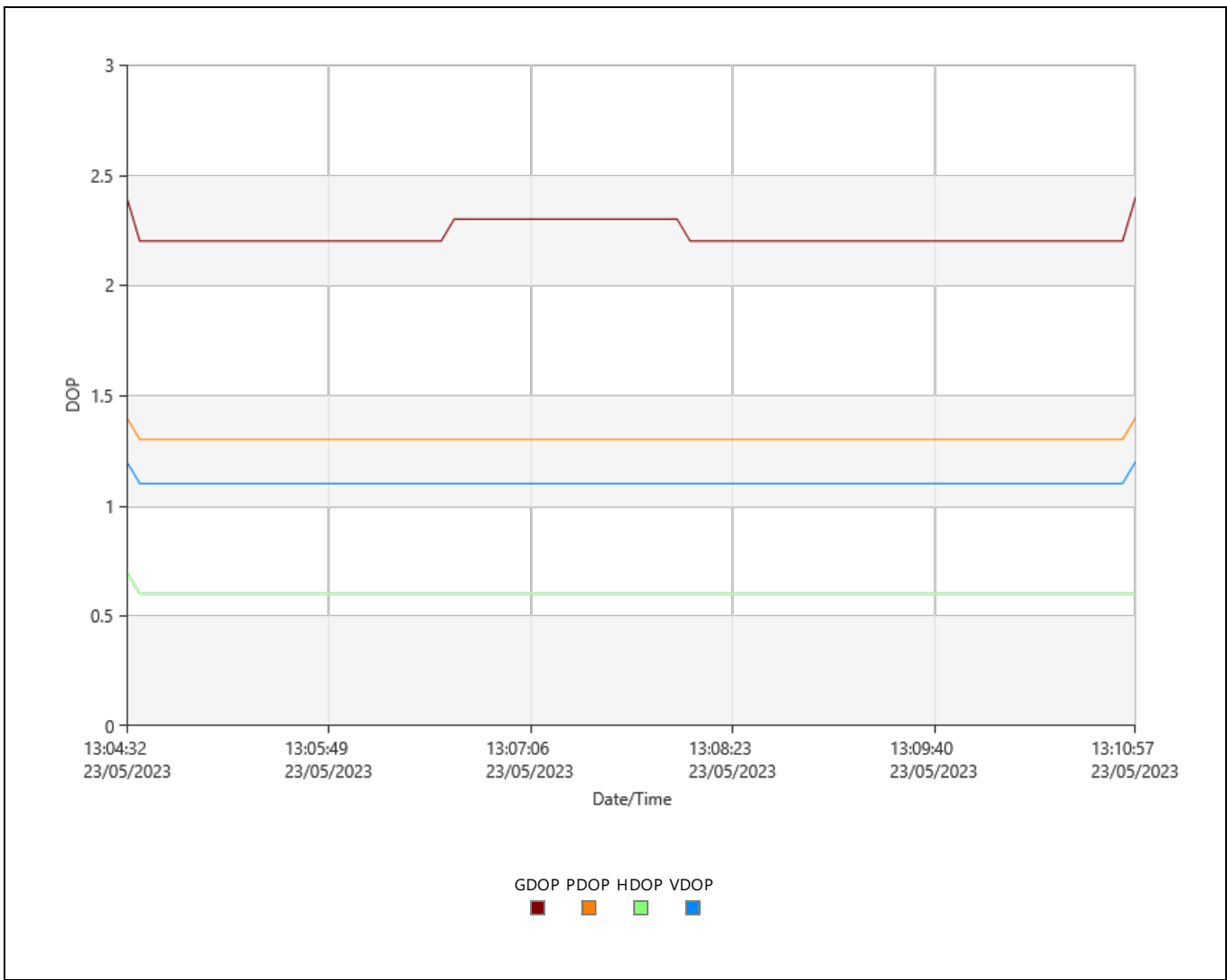
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 386

#### GPS Observations

Frequency	Used	Rejected
L1	2,702	0
L2	2,694	6
L5	777	379

#### GLONASS Observations

Frequency	Used	Rejected
L1	2,102	105
L2	2,100	98

#### Beidou Observations

Frequency	Used	Rejected
B1	1,540	3
B2	384	2

#### Galileo Observations

Frequency	Used	Rejected
E1	1,920	17
E5a	1,543	392
E5b	1,919	16
E5ab	1,919	16

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	17	12	5	20
Total	17	21	5	28
Independently fixed	48	48	48	48
Possible independently fixed	48	48	48	48

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	97.40	97.85	100.00	100.00	99.22	99.22	99.22	99.22
Not fixed	0.00	0.00	0.00	2.60	2.15	0.00	0.00	0.78	0.78	0.78	0.78
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 13:04:32	23/05/2023 13:10:57	00:06:25

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### G09

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:04:34	No Data
	23/05/2023 13:04:32	23/05/2023 13:04:39	No Data
	23/05/2023 13:04:34	23/05/2023 13:04:39	Rejected
	23/05/2023 13:04:39	23/05/2023 13:04:40	Rejected
	23/05/2023 13:04:40	23/05/2023 13:10:57	Used
L5	23/05/2023 13:04:39	23/05/2023 13:10:57	No Data
	23/05/2023 13:04:32	23/05/2023 13:04:34	No Data
	23/05/2023 13:04:34	23/05/2023 13:04:39	Used
	23/05/2023 13:04:39	23/05/2023 13:10:57	Rejected

#### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L5	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### G30

Frequency	From Epoch	To Epoch	Status
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L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L5	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
L2	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 13:04:32	23/05/2023 13:04:46	No Data
	23/05/2023 13:04:46	23/05/2023 13:05:04	Rejected
	23/05/2023 13:05:04	23/05/2023 13:05:06	No Data
	23/05/2023 13:05:06	23/05/2023 13:05:11	Rejected
	23/05/2023 13:05:11	23/05/2023 13:05:13	No Data
	23/05/2023 13:05:13	23/05/2023 13:05:14	Rejected
	23/05/2023 13:05:14	23/05/2023 13:05:16	No Data
	23/05/2023 13:05:16	23/05/2023 13:05:21	Rejected
	23/05/2023 13:05:21	23/05/2023 13:05:30	No Data
	23/05/2023 13:05:30	23/05/2023 13:05:31	Rejected
	23/05/2023 13:05:31	23/05/2023 13:06:05	No Data
	23/05/2023 13:06:05	23/05/2023 13:06:49	Rejected
	23/05/2023 13:06:49	23/05/2023 13:06:50	No Data
	23/05/2023 13:06:50	23/05/2023 13:06:58	Rejected
	23/05/2023 13:06:58	23/05/2023 13:06:59	No Data
	23/05/2023 13:06:59	23/05/2023 13:07:07	Rejected
	23/05/2023 13:07:07	23/05/2023 13:07:17	No Data
	23/05/2023 13:07:17	23/05/2023 13:07:18	Rejected
	23/05/2023 13:07:18	23/05/2023 13:07:21	No Data
	23/05/2023 13:07:21	23/05/2023 13:07:23	Rejected
	23/05/2023 13:07:23	23/05/2023 13:07:28	No Data
	23/05/2023 13:07:28	23/05/2023 13:07:32	Rejected
	23/05/2023 13:07:32	23/05/2023 13:07:37	No Data
	23/05/2023 13:07:37	23/05/2023 13:07:38	Rejected
	23/05/2023 13:07:38	23/05/2023 13:07:39	No Data
23/05/2023 13:07:39	23/05/2023 13:07:42	Rejected	
23/05/2023 13:07:42	23/05/2023 13:08:02	No Data	
23/05/2023 13:08:02	23/05/2023 13:08:06	Rejected	
	23/05/2023 13:08:06	23/05/2023 13:10:57	Used
	23/05/2023 13:04:32	23/05/2023 13:04:48	No Data
	23/05/2023 13:04:48	23/05/2023 13:05:04	Rejected
	23/05/2023 13:05:04	23/05/2023 13:05:07	No Data
	23/05/2023 13:05:07	23/05/2023 13:05:11	Rejected
	23/05/2023 13:05:11	23/05/2023 13:05:18	No Data
	23/05/2023 13:05:18	23/05/2023 13:05:21	Rejected
	23/05/2023 13:05:21	23/05/2023 13:05:30	No Data
	23/05/2023 13:05:30	23/05/2023 13:05:31	Rejected
	23/05/2023 13:05:31	23/05/2023 13:06:06	No Data

L2	23/05/2023 13:06:06	23/05/2023 13:06:49	Rejected
	23/05/2023 13:06:49	23/05/2023 13:06:50	No Data
	23/05/2023 13:06:50	23/05/2023 13:06:58	Rejected
	23/05/2023 13:06:58	23/05/2023 13:06:59	No Data
	23/05/2023 13:06:59	23/05/2023 13:07:07	Rejected
	23/05/2023 13:07:07	23/05/2023 13:07:17	No Data
	23/05/2023 13:07:17	23/05/2023 13:07:18	Rejected
	23/05/2023 13:07:18	23/05/2023 13:07:22	No Data
	23/05/2023 13:07:22	23/05/2023 13:07:23	Rejected
	23/05/2023 13:07:23	23/05/2023 13:07:28	No Data
	23/05/2023 13:07:28	23/05/2023 13:07:32	Rejected
	23/05/2023 13:07:32	23/05/2023 13:07:37	No Data
	23/05/2023 13:07:37	23/05/2023 13:07:38	Rejected
	23/05/2023 13:07:38	23/05/2023 13:07:39	No Data
	23/05/2023 13:07:39	23/05/2023 13:07:42	Rejected
	23/05/2023 13:07:42	23/05/2023 13:08:03	No Data
	23/05/2023 13:08:03	23/05/2023 13:08:08	Rejected
	23/05/2023 13:08:08	23/05/2023 13:10:57	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5a	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5b	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5ab	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5a	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5b	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5ab	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

E05

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:04:32	23/05/2023 13:04:41	No Data
	23/05/2023 13:04:41	23/05/2023 13:04:42	Rejected
	23/05/2023 13:04:42	23/05/2023 13:10:57	Used
E5a	23/05/2023 13:04:32	23/05/2023 13:04:42	No Data
	23/05/2023 13:04:42	23/05/2023 13:10:57	Rejected
E5b	23/05/2023 13:04:32	23/05/2023 13:04:42	No Data
	23/05/2023 13:04:42	23/05/2023 13:10:57	Used
E5ab	23/05/2023 13:04:32	23/05/2023 13:04:42	No Data
	23/05/2023 13:04:42	23/05/2023 13:10:57	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5a	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5b	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5ab	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

E25

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 13:04:32	23/05/2023 13:04:40	Rejected
	23/05/2023 13:04:40	23/05/2023 13:10:50	No Data
	23/05/2023 13:10:50	23/05/2023 13:10:57	Rejected
E5a	23/05/2023 13:04:32	23/05/2023 13:04:40	Rejected
	23/05/2023 13:04:40	23/05/2023 13:10:50	No Data
	23/05/2023 13:10:50	23/05/2023 13:10:57	Rejected
E5b	23/05/2023 13:04:32	23/05/2023 13:04:40	Rejected
	23/05/2023 13:04:40	23/05/2023 13:10:50	No Data
	23/05/2023 13:10:50	23/05/2023 13:10:57	Rejected
E5ab	23/05/2023 13:04:32	23/05/2023 13:04:40	Rejected
	23/05/2023 13:04:40	23/05/2023 13:10:50	No Data
	23/05/2023 13:10:50	23/05/2023 13:10:57	Rejected

E30

Frequency	From Epoch	To Epoch	Status

E1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
E5a	23/05/2023 13:04:32	23/05/2023 13:04:33	No Data
	23/05/2023 13:04:33	23/05/2023 13:10:57	Used
E5b	23/05/2023 13:04:32	23/05/2023 13:04:33	No Data
	23/05/2023 13:04:33	23/05/2023 13:10:57	Used
E5ab	23/05/2023 13:04:32	23/05/2023 13:04:33	No Data
	23/05/2023 13:04:33	23/05/2023 13:10:57	Used

#### C14

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used
B2	23/05/2023 13:04:32	23/05/2023 13:04:34	Rejected
	23/05/2023 13:04:34	23/05/2023 13:10:57	Used

#### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

#### C24

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 13:04:32	23/05/2023 13:10:54	Used
	23/05/2023 13:10:54	23/05/2023 13:10:55	No Data
	23/05/2023 13:10:55	23/05/2023 13:10:57	Rejected

#### C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 13:04:32	23/05/2023 13:10:57	Used

### Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
R14	L2	23/05/2023 13:07:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

### Processing Messages

#### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-6A

### Processing Parameters (23/05/2023 14:48:01 - 23/05/2023 14:55:14)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic



### General Settings

Min. Distance for Lono Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-6A

### Acquisition

Start Time - End Time: 23/05/2023 14:48:01 - 23/05/2023 14:55:14  
Duration: 00:07:13

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-6A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-6A	Reference - MOQ01058	Rover - PAF-CU2-6A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 58.24366" S	Easting: 318,107.441 m	315,267.186 m
WGS84 Longitude:	-	70° 44' 08.11198" W	Northing: 8,117,307.121 m	8,115,991.679 m
WGS84 Ellip. Height:	-	3,449.735 m	Ortho. Height: 3,897.429 m	3,408.603 m
WGS84 Cartesian X:	-	2,013,691.048 m		
WGS84 Cartesian Y:	-	-5,761,668.576 m		
WGS84 Cartesian Z:	-	-1,857,319.756 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 41.97465"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 36.42153"	SD ΔLongitude:	0.000 m
ΔHeight:	-489.176 m	SD ΔHeight:	0.000 m
ΔX:	-2,972.584 m	SD ΔX:	0.000 m
ΔY:	-143.647 m	SD ΔY:	0.000 m
ΔZ:	-1,091.281 m	SD ΔZ:	0.000 m
Slope Dist.:	3,169.824 m	SD Slope Dist.:	0.000 m

M0:	0.321 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000009	CQ 3D:	0.000 m
Q22:	0.00000037		
Q13:	-0.00000003		
Q23:	0.00000008		

Q33: 0.00000007

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 2.3	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	1.0 - 1.4	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	3/3
		VDOP:	0.9 - 1.3	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

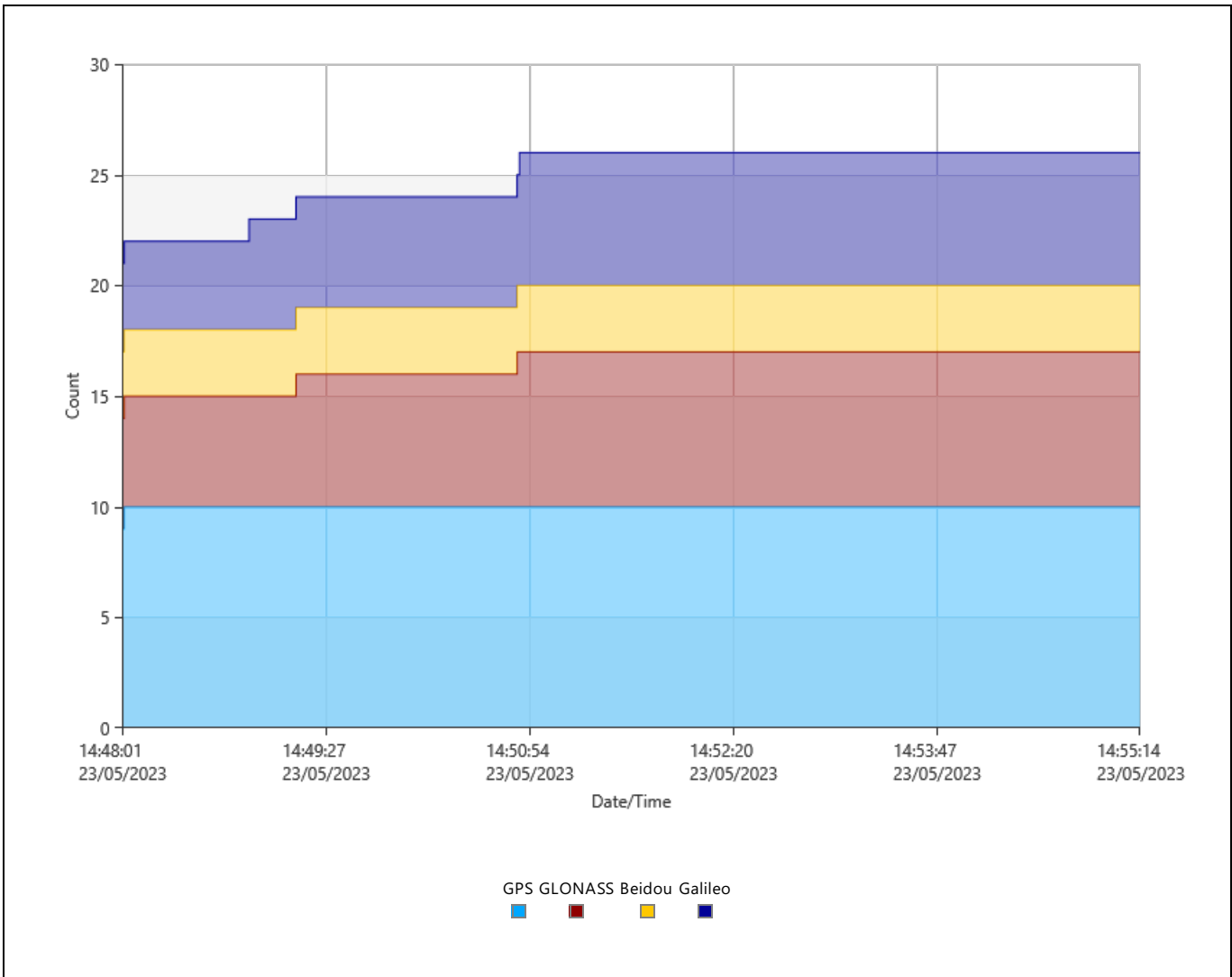
### Processing Info (23/05/2023 14:48:01 - 23/05/2023 14:55:14)

Processed Date/Time: 09/06/2023 17:54:21

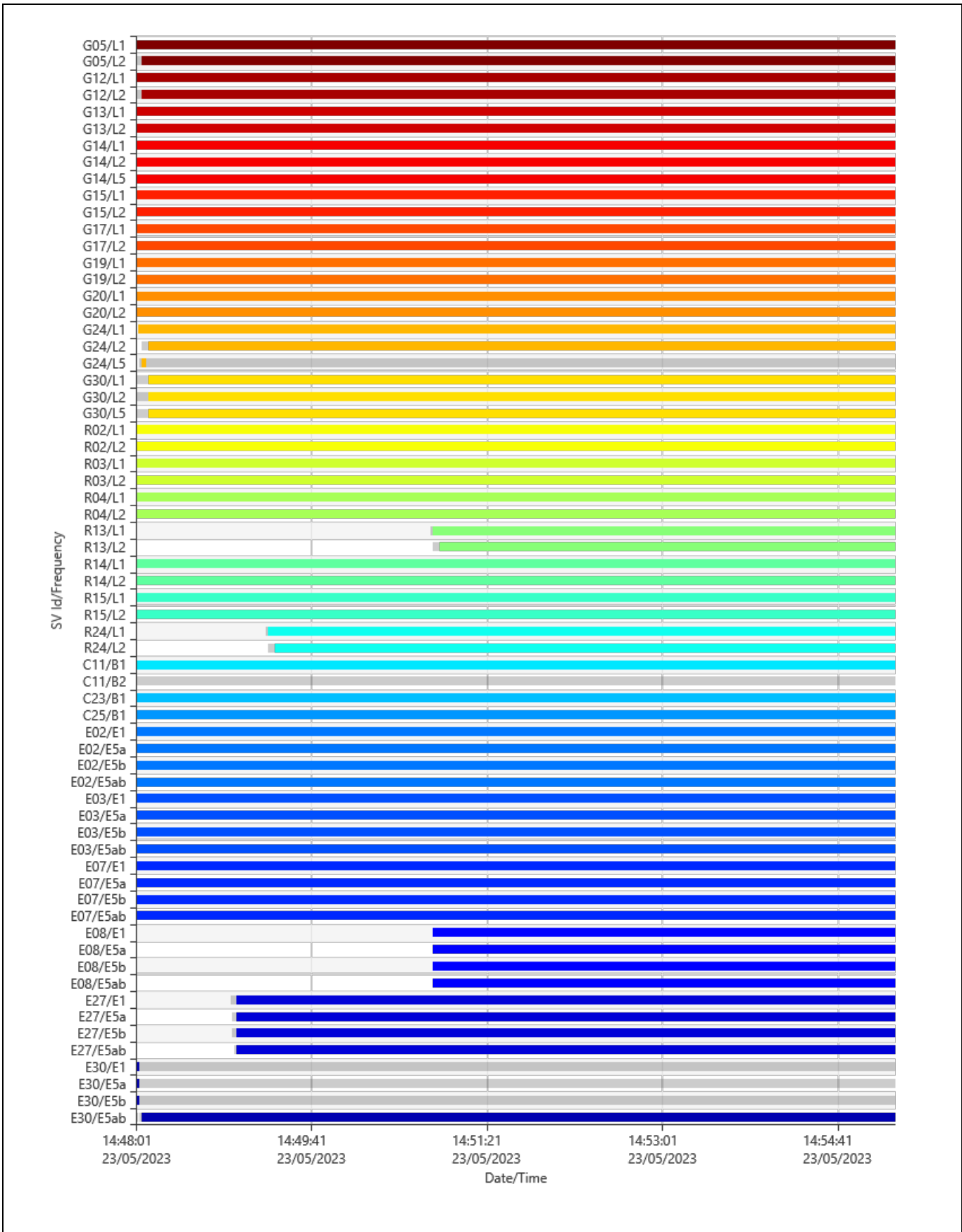
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G14 G15 G17 - G19 G20 G24 G30	-
GLONASS	R02 R03 R04 R13 R14 R15 - R24	-
Beidou	C11 C23 C25	-
Galileo	E02 E03 E07 E08 E27 E30	-

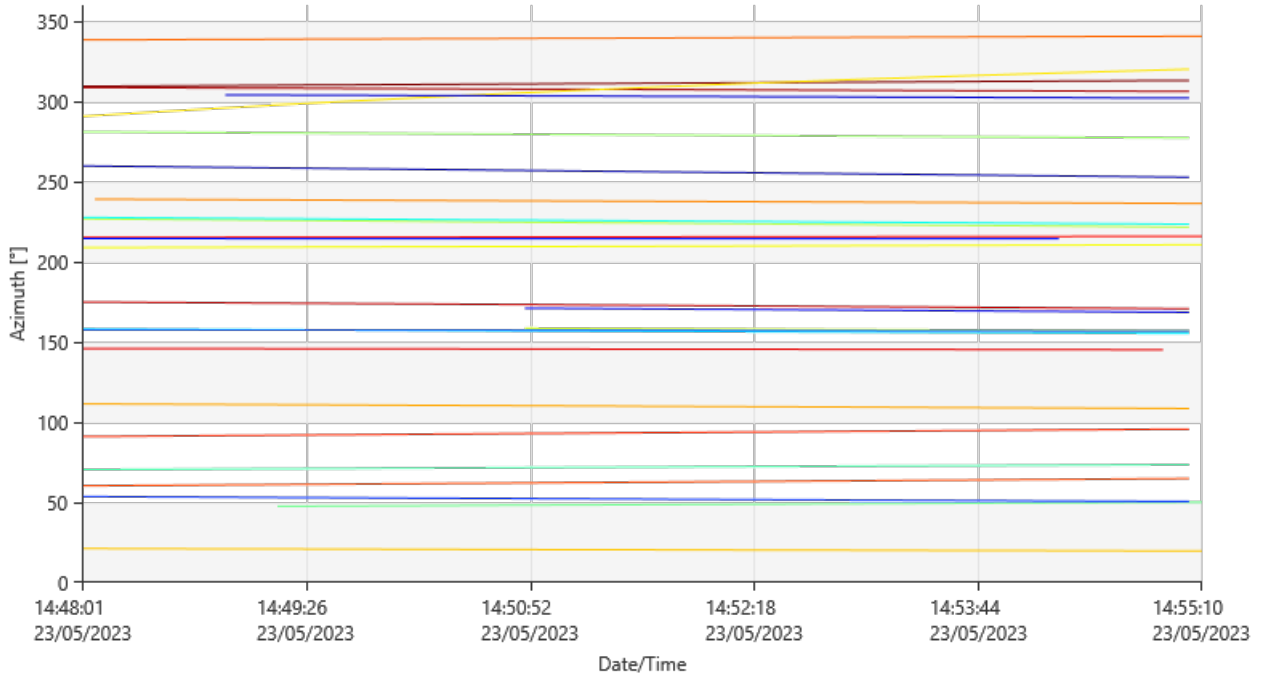
### SVs Tracked



### Signals Tracked



Azimuth



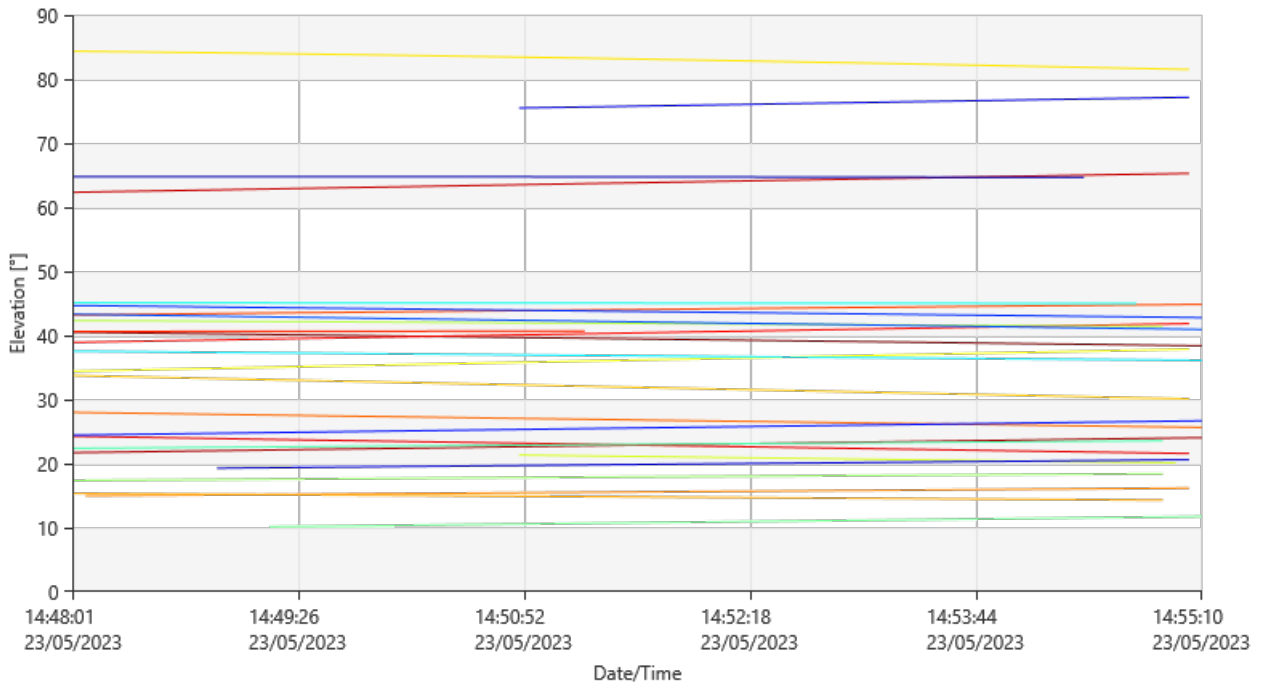
G05 G12 G13 G14 G15 G17 G19 G20 G24 G30 R02 R03 R04 R13 R14 R15 R24 C11 C14 C23 C25 C32 C33 C34 C37 E02



E03 E07 E08 E27 E30



**Elevation**



G05 G12 G13 G14 G15 G17 G19 G20 G24 G30 R02 R03 R04 R13 R14 R15 R24 C11 C14 C23 C25 C32 C33 C34 C37 E02



E03 E07 E08 E27 E30





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 14:48:01	23/05/2023 14:55:14	00:07:13

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:48:03	No Data
	23/05/2023 14:48:01	23/05/2023 14:48:03	Rejected
	23/05/2023 14:48:03	23/05/2023 14:48:04	Rejected
	23/05/2023 14:48:04	23/05/2023 14:55:14	Used
	23/05/2023 14:48:03	23/05/2023 14:55:14	No Data

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:48:03	No Data
	23/05/2023 14:48:01	23/05/2023 14:48:03	Rejected
	23/05/2023 14:48:03	23/05/2023 14:48:04	Rejected
	23/05/2023 14:48:04	23/05/2023 14:55:14	Used
	23/05/2023 14:48:03	23/05/2023 14:55:14	No Data

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L5	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

### G17

Frequency	From Epoch	To Epoch	Status

L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:48:02	No Data
	23/05/2023 14:48:02	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:48:04	No Data
	23/05/2023 14:48:01	23/05/2023 14:48:07	No Data
	23/05/2023 14:48:04	23/05/2023 14:48:07	Rejected
	23/05/2023 14:48:07	23/05/2023 14:48:08	Rejected
	23/05/2023 14:48:08	23/05/2023 14:55:14	Used
L5	23/05/2023 14:48:01	23/05/2023 14:55:14	No Data
	23/05/2023 14:48:03	23/05/2023 14:48:04	Rejected
	23/05/2023 14:48:04	23/05/2023 14:48:07	Used
	23/05/2023 14:48:07	23/05/2023 14:55:14	Rejected

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:48:08	Rejected
	23/05/2023 14:48:08	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:48:03	No Data
	23/05/2023 14:48:01	23/05/2023 14:48:03	Rejected
	23/05/2023 14:48:03	23/05/2023 14:48:08	Rejected
	23/05/2023 14:48:08	23/05/2023 14:55:14	Used
L5	23/05/2023 14:48:03	23/05/2023 14:55:14	No Data
	23/05/2023 14:48:08	23/05/2023 14:48:08	Rejected
	23/05/2023 14:48:08	23/05/2023 14:55:14	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:50:49	No Data
	23/05/2023 14:50:49	23/05/2023 14:50:50	Rejected
	23/05/2023 14:50:50	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:50:50	No Data
	23/05/2023 14:50:50	23/05/2023 14:50:54	Rejected
	23/05/2023 14:50:54	23/05/2023 14:55:14	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
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R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 14:48:01	23/05/2023 14:49:15	No Data
	23/05/2023 14:49:15	23/05/2023 14:49:16	Rejected
	23/05/2023 14:49:16	23/05/2023 14:55:14	Used
L2	23/05/2023 14:48:01	23/05/2023 14:49:16	No Data
	23/05/2023 14:49:16	23/05/2023 14:49:20	Rejected
	23/05/2023 14:49:20	23/05/2023 14:55:14	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5a	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5b	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5ab	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5a	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5b	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5ab	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5a	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5b	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
E5ab	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:50:50	No Data
	23/05/2023 14:50:50	23/05/2023 14:55:14	Used
E5a	23/05/2023 14:48:01	23/05/2023 14:50:50	No Data
	23/05/2023 14:50:50	23/05/2023 14:55:14	Used
E5b	23/05/2023 14:48:01	23/05/2023 14:50:50	No Data
	23/05/2023 14:50:50	23/05/2023 14:55:14	Used
E5ab	23/05/2023 14:48:01	23/05/2023 14:50:50	No Data
	23/05/2023 14:50:50	23/05/2023 14:55:14	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:48:55	No Data
	23/05/2023 14:48:55	23/05/2023 14:48:58	Rejected
	23/05/2023 14:48:58	23/05/2023 14:55:14	Used
E5a	23/05/2023 14:48:01	23/05/2023 14:48:56	No Data
	23/05/2023 14:48:56	23/05/2023 14:48:58	Rejected
	23/05/2023 14:48:58	23/05/2023 14:55:14	Used
E5b	23/05/2023 14:48:01	23/05/2023 14:48:56	No Data
	23/05/2023 14:48:56	23/05/2023 14:48:58	Rejected
	23/05/2023 14:48:58	23/05/2023 14:55:14	Used
E5ab	23/05/2023 14:48:01	23/05/2023 14:48:57	No Data
	23/05/2023 14:48:57	23/05/2023 14:48:58	Rejected
	23/05/2023 14:48:58	23/05/2023 14:55:14	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 14:48:01	23/05/2023 14:48:03	Used
	23/05/2023 14:48:03	23/05/2023 14:55:14	Rejected
E5a	23/05/2023 14:48:01	23/05/2023 14:48:03	Used



	23/05/2023 14:48:03	23/05/2023 14:55:14	Rejected
E5b	23/05/2023 14:48:01	23/05/2023 14:48:03	Used
	23/05/2023 14:48:03	23/05/2023 14:55:14	Rejected
E5ab	23/05/2023 14:48:01	23/05/2023 14:48:02	Rejected
	23/05/2023 14:48:02	23/05/2023 14:48:03	No Data
	23/05/2023 14:48:03	23/05/2023 14:48:04	Rejected
	23/05/2023 14:48:04	23/05/2023 14:55:14	Used

#### C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used
B2	23/05/2023 14:48:03	23/05/2023 14:55:14	Rejected

#### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

#### C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 14:48:01	23/05/2023 14:55:14	Used

### Cycle Slips

Slip Count: 4

SV	Frequency	Epoch	Slip Value	Flag
G30	L5	23/05/2023 14:48:08	-	RIA
E27	E1	23/05/2023 14:48:58	-	RIA
	E5a	23/05/2023 14:48:58	-	RIA
	E5b	23/05/2023 14:48:58	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

### Processing Messages

#### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-7A

### Processing Parameters (23/05/2023 15:05:00 - 23/05/2023 15:12:02)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

#### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km

Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-7A

### Acquisition

Start Time - End Time: 23/05/2023 15:05:00 - 23/05/2023 15:12:02  
Duration: 00:07:02

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-7A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-7A	Reference - MOQ01058	Rover - PAF-CU2-7A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 57.47987" S	Easting: 318,107.441 m	314,870.612 m
WGS84 Longitude:	-	70° 44' 21.51458" W	Northing: 8,117,307.121 m	8,116,011.637 m
WGS84 Ellip. Height:	-	3,453.487 m	Ortho. Height: 3,897.429 m	3,412.393 m
WGS84 Cartesian X:	-	2,013,320.118 m		
WGS84 Cartesian Y:	-	-5,761,809.291 m		
WGS84 Cartesian Z:	-	-1,857,298.393 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 41.21085"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 49.82414"	SD ΔLongitude:	0.000 m
ΔHeight:	-485.424 m	SD ΔHeight:	0.000 m
ΔX:	-3,343.515 m	SD ΔX:	0.000 m
ΔY:	-284.363 m	SD ΔY:	0.000 m
ΔZ:	-1,069.918 m	SD ΔZ:	0.000 m
Slope Dist.:	3,522.028 m	SD Slope Dist.:	0.000 m

M0:	0.326 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000009	CQ 3D:	0.000 m
Q22:	0.00000033		
Q13:	-0.00000002		
Q23:	0.00000006		
Q33:	0.00000007		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 2.1	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	1.0 - 1.3	GLONASS SVs:	7/7

Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	3/3
		VDOP:	0.9 - 1.1	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

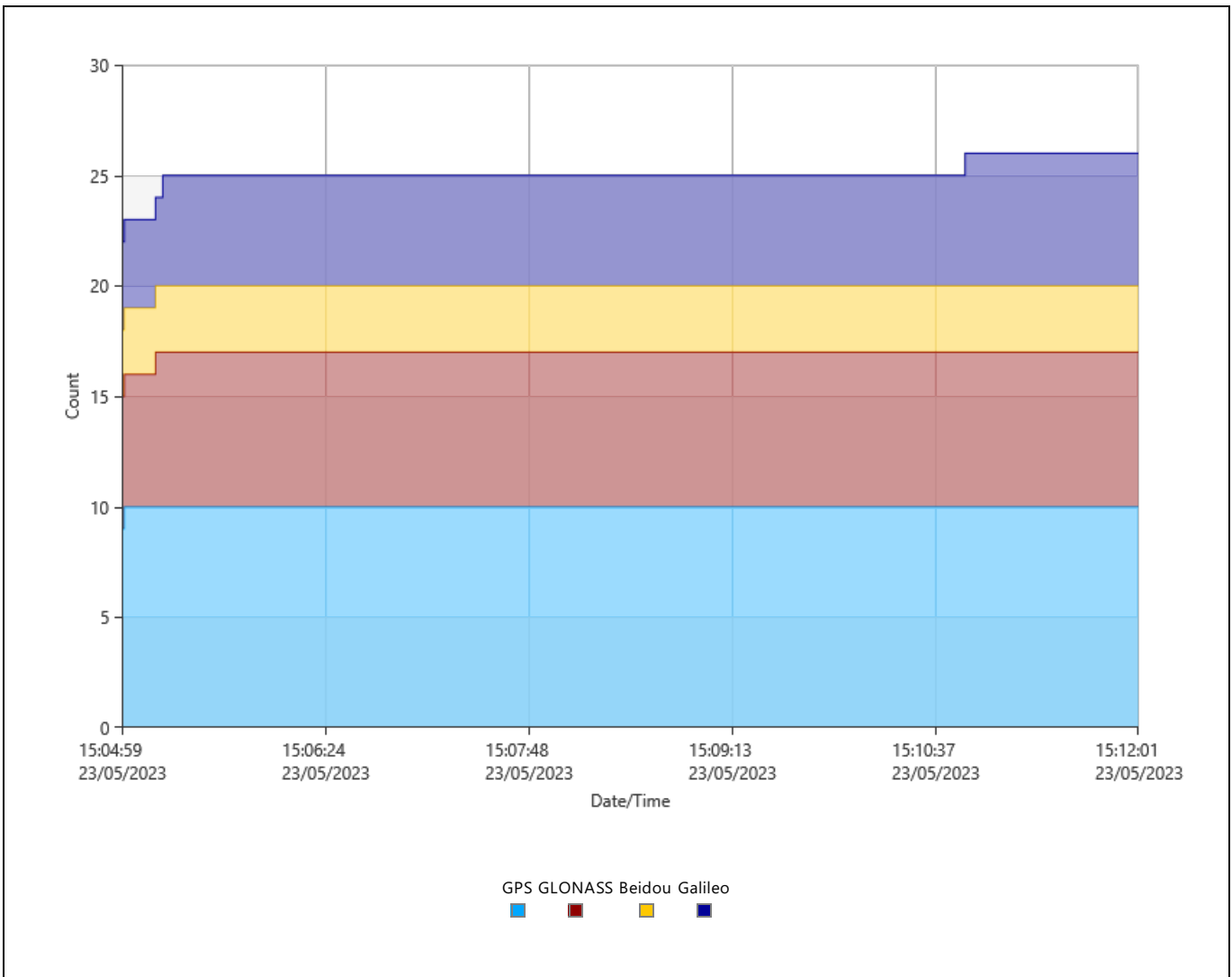
### Processing Info (23/05/2023 15:05:00 - 23/05/2023 15:12:02)

Processed Date/Time: 09/06/2023 17:54:21

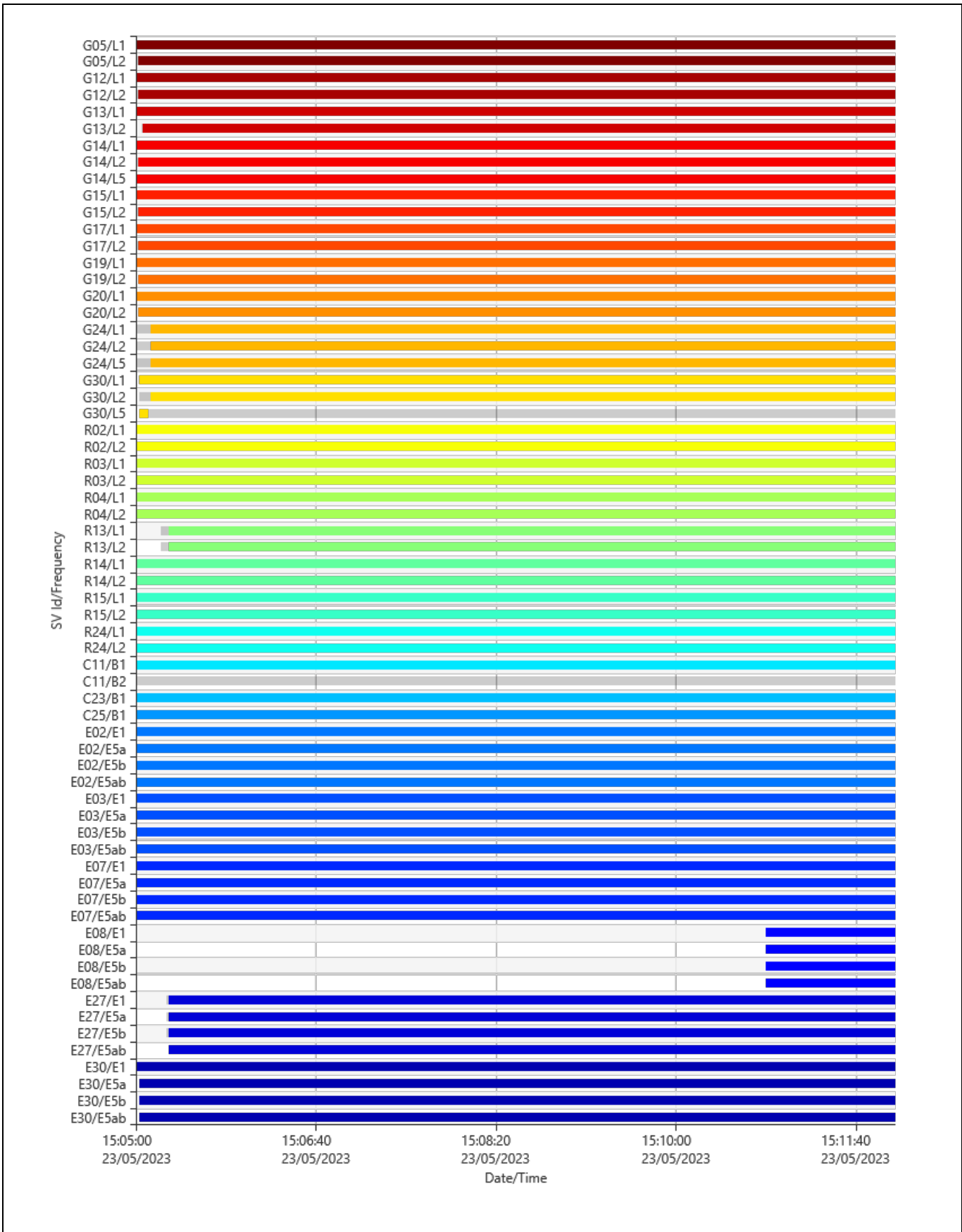
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G14 G15 G17 - G19 G20 G24 G30	-
GLONASS	R02 R03 R04 R13 R14 R15 - R24	-
Beidou	C11 C23 C25	-
Galileo	E02 E03 E07 E08 E27 E30	-

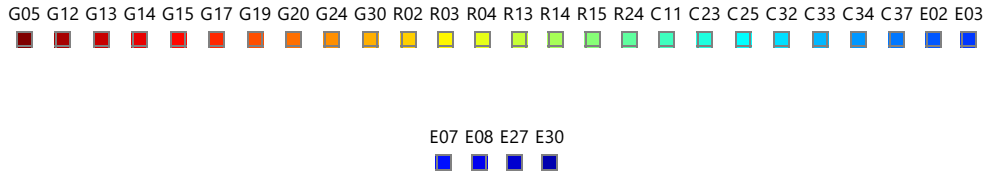
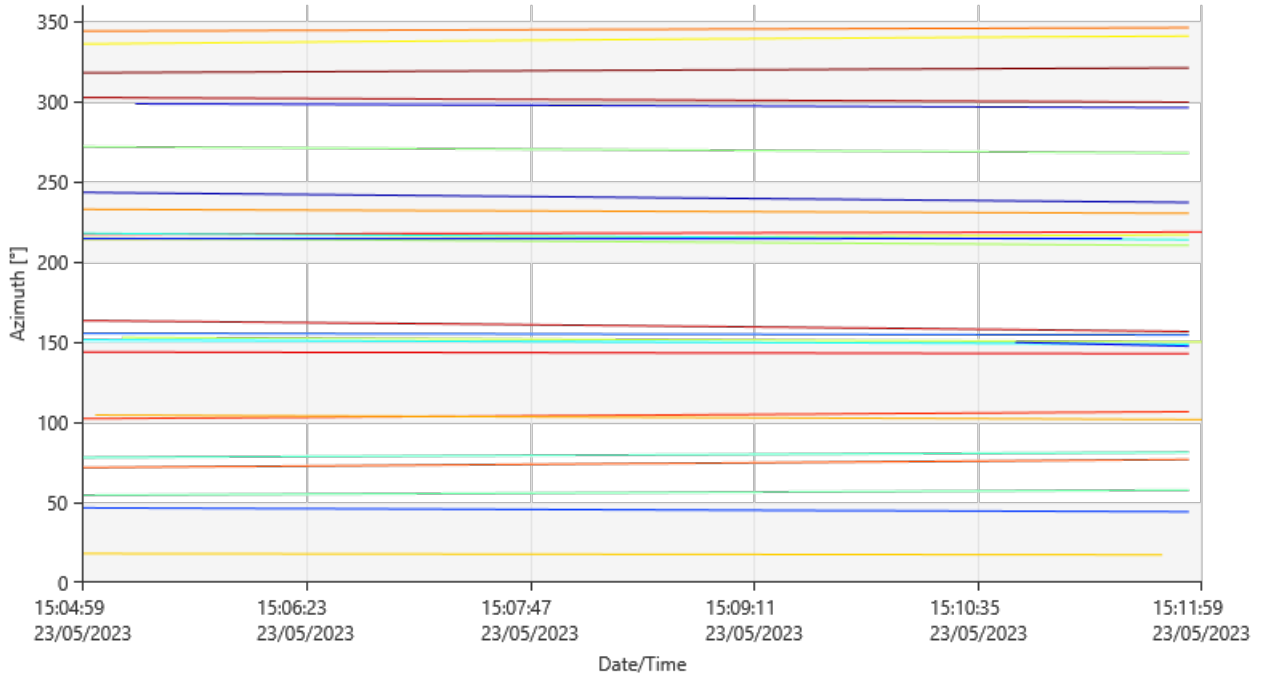
### SVs Tracked



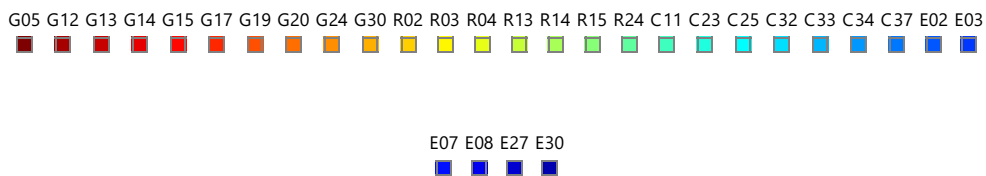
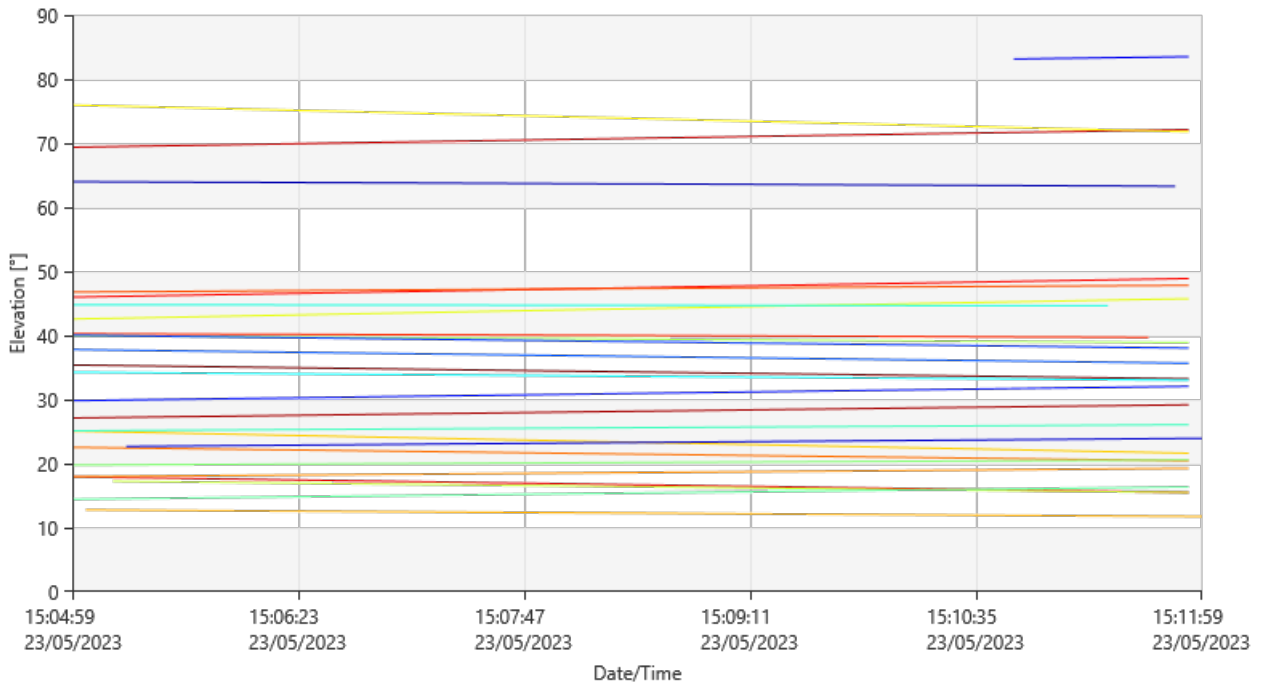
### Signals Tracked



Azimuth



**Elevation**





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:05:00	23/05/2023 15:12:02	00:07:02

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>Rejected</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>Rejected</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:03</b>	<b>No Data</b>
	<b>23/05/2023 15:05:03</b>	<b>23/05/2023 15:05:04</b>	<b>Rejected</b>
	23/05/2023 15:05:04	23/05/2023 15:12:02	Used

### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>Rejected</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>
L5	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>Rejected</b>

	23/05/2023 15:05:01	23/05/2023 15:12:02	Used
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>

G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>Rejected</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>

G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	23/05/2023 15:05:01	23/05/2023 15:12:02	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:08</b>	<b>Rejected</b>
	23/05/2023 15:05:08	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:03</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:03</b>	<b>Rejected</b>
	<b>23/05/2023 15:05:03</b>	<b>23/05/2023 15:05:08</b>	<b>Rejected</b>
	23/05/2023 15:05:08	23/05/2023 15:12:02	Used
L5	<b>23/05/2023 15:05:03</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:08</b>	<b>Rejected</b>
	23/05/2023 15:05:08	23/05/2023 15:12:02	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:01</b>	<b>No Data</b>
	<b>23/05/2023 15:05:01</b>	<b>23/05/2023 15:05:02</b>	<b>Rejected</b>
	23/05/2023 15:05:02	23/05/2023 15:12:02	Used
L2	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:02</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:07</b>	<b>No Data</b>
	<b>23/05/2023 15:05:02</b>	<b>23/05/2023 15:05:07</b>	<b>Rejected</b>
	<b>23/05/2023 15:05:07</b>	<b>23/05/2023 15:05:08</b>	<b>Rejected</b>
	23/05/2023 15:05:08	23/05/2023 15:12:02	Used
L5	<b>23/05/2023 15:05:07</b>	<b>23/05/2023 15:12:02</b>	<b>No Data</b>
	<b>23/05/2023 15:05:00</b>	<b>23/05/2023 15:05:02</b>	<b>No Data</b>
	23/05/2023 15:05:02	23/05/2023 15:05:07	Used
	<b>23/05/2023 15:05:07</b>	<b>23/05/2023 15:12:02</b>	<b>Rejected</b>

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

R13

Frequency	From Epoch	To Epoch	Status



L1	23/05/2023 15:05:00	23/05/2023 15:05:14	No Data
	23/05/2023 15:05:14	23/05/2023 15:05:18	Rejected
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:05:14	No Data
	23/05/2023 15:05:14	23/05/2023 15:05:18	Rejected
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
L2	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:10:50	No Data
	23/05/2023 15:10:50	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:10:50	No Data
	23/05/2023 15:10:50	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:10:50	No Data
	23/05/2023 15:10:50	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:10:50	No Data
	23/05/2023 15:10:50	23/05/2023 15:12:02	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:05:17	No Data
	23/05/2023 15:05:17	23/05/2023 15:05:18	Rejected
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:05:17	No Data
	23/05/2023 15:05:17	23/05/2023 15:05:18	Rejected
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:05:17	No Data
	23/05/2023 15:05:17	23/05/2023 15:05:18	Rejected
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:05:18	No Data
	23/05/2023 15:05:18	23/05/2023 15:12:02	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
E5a	23/05/2023 15:05:00	23/05/2023 15:05:02	No Data
	23/05/2023 15:05:02	23/05/2023 15:12:02	Used
E5b	23/05/2023 15:05:00	23/05/2023 15:05:02	No Data
	23/05/2023 15:05:02	23/05/2023 15:12:02	Used
E5ab	23/05/2023 15:05:00	23/05/2023 15:05:02	No Data
	23/05/2023 15:05:02	23/05/2023 15:12:02	Used

C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used
B2	23/05/2023 15:05:00	23/05/2023 15:12:02	Rejected

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:05:00	23/05/2023 15:12:02	Used

## Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
G24	L5	23/05/2023 15:05:08	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-8A

## Processing Parameters (23/05/2023 15:18:58 - 23/05/2023 15:26:21)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model Minimised:	15 km
Possible Ambiguities Fix up to:	300 km

Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-8A

### Acquisition

Start Time - End Time: 23/05/2023 15:18:58 - 23/05/2023 15:26:21  
Duration: 00:07:23

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-8A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-8A	Reference - MOQ01058	Rover - PAF-CU2-8A	
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 05.37453" S	Easting:	318,107.441 m	314,892.946 m
WGS84 Longitude:	-	70° 44' 20.83237" W	Northing:	8,117,307.121 m	8,115,769.126 m
WGS84 Ellip. Height:	-	3,452.495 m	Ortho. Height:	3,897.429 m	3,411.415 m
WGS84 Cartesian X:	-	2,013,315.397 m			
WGS84 Cartesian Y:	-	-5,761,734.586 m			
WGS84 Cartesian Z:	-	-1,857,530.277 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 49.10552"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 49.14192"	SD ΔLongitude:	0.000 m
ΔHeight:	-486.416 m	SD ΔHeight:	0.000 m
ΔX:	-3,348.235 m	SD ΔX:	0.000 m
ΔY:	-209.658 m	SD ΔY:	0.000 m
ΔZ:	-1,301.802 m	SD ΔZ:	0.000 m
Slope Dist.:	3,598.517 m	SD Slope Dist.:	0.000 m

M0:	0.318 m	CQ 1D:	0.000 m
Q11:	0.00000007	CQ 2D:	0.000 m
Q12:	-0.00000006	CQ 3D:	0.000 m
Q22:	0.00000026		
Q13:	-0.00000002		
Q23:	0.00000004		
Q33:	0.00000007		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.6 - 1.8	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	0.9 - 1.1	GLONASS SVs:	7/7

Solution Type:	Phase Fixed	HDOP:	0.4 - 0.5	Beidou SVs:	4/4
		VDOP:	0.8 - 1.0	Galileo SVs:	6/6
				QZSS SVs:	-
Ephemeris Type:					
GPS	Precise				
GLONASS	Precise				
Beidou	Precise				
Galileo	Precise				

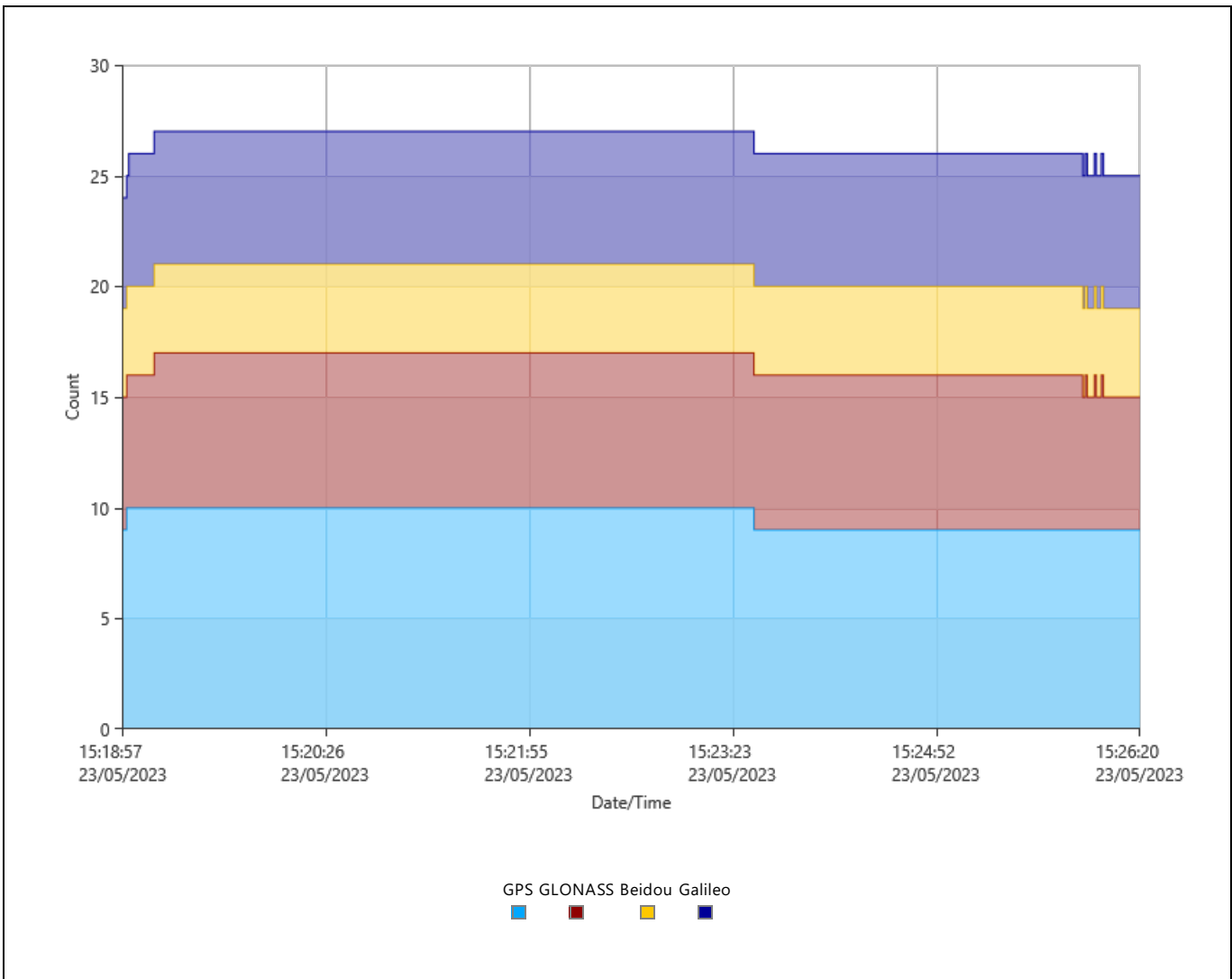
### Processing Info (23/05/2023 15:18:58 - 23/05/2023 15:26:21)

Processed Date/Time: 09/06/2023 17:54:21

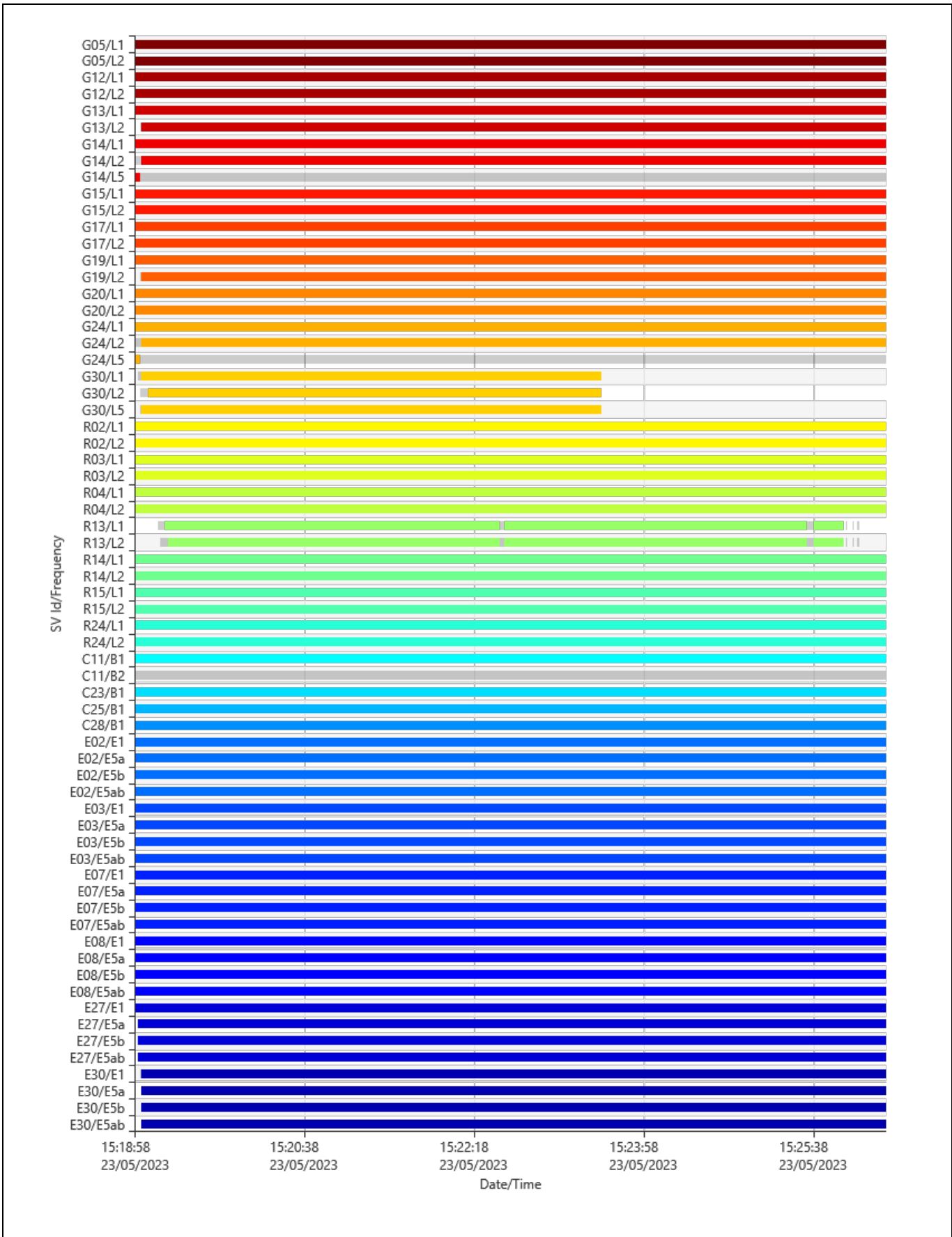
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G14 G15 G17 - G19 G20 G24 G30	-
GLONASS	R02 R03 R04 R13 R14 R15 - R24	-
Beidou	C11 C23 C25 C28	-
Galileo	E02 E03 E07 E08 E27 E30	-

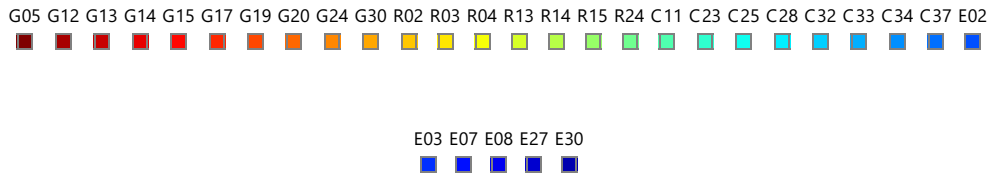
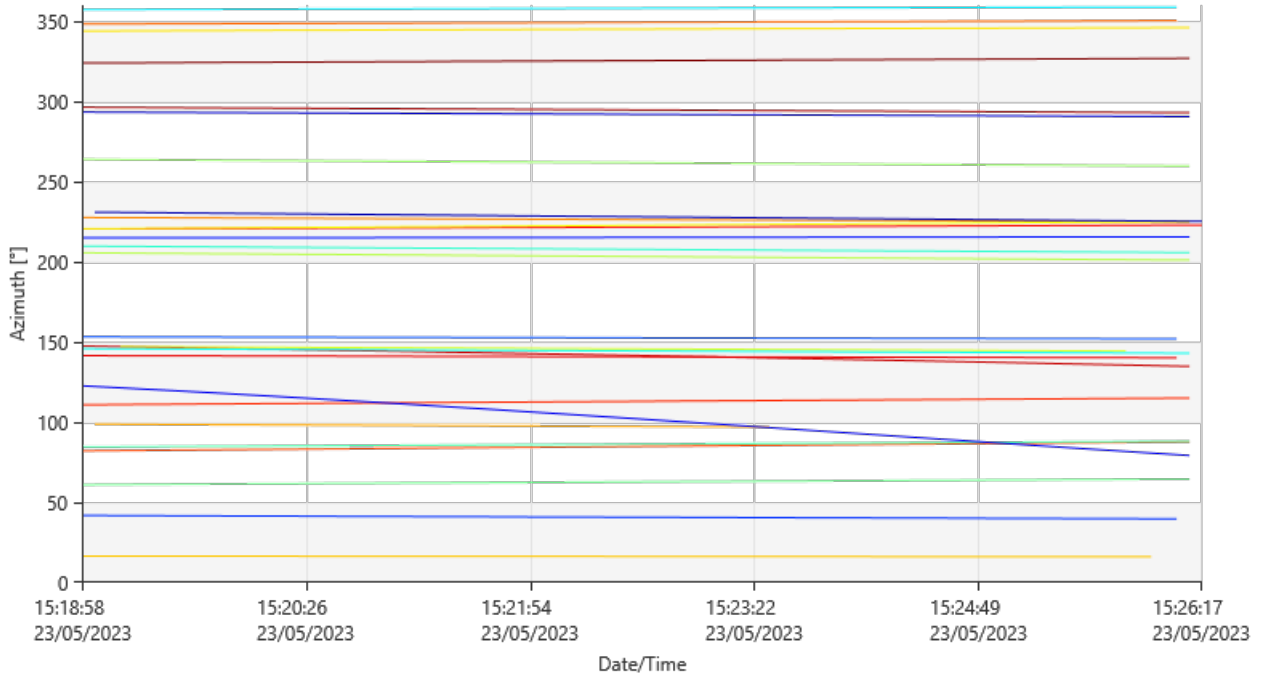
### SVs Tracked



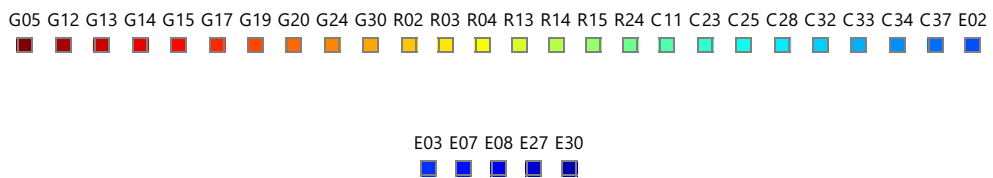
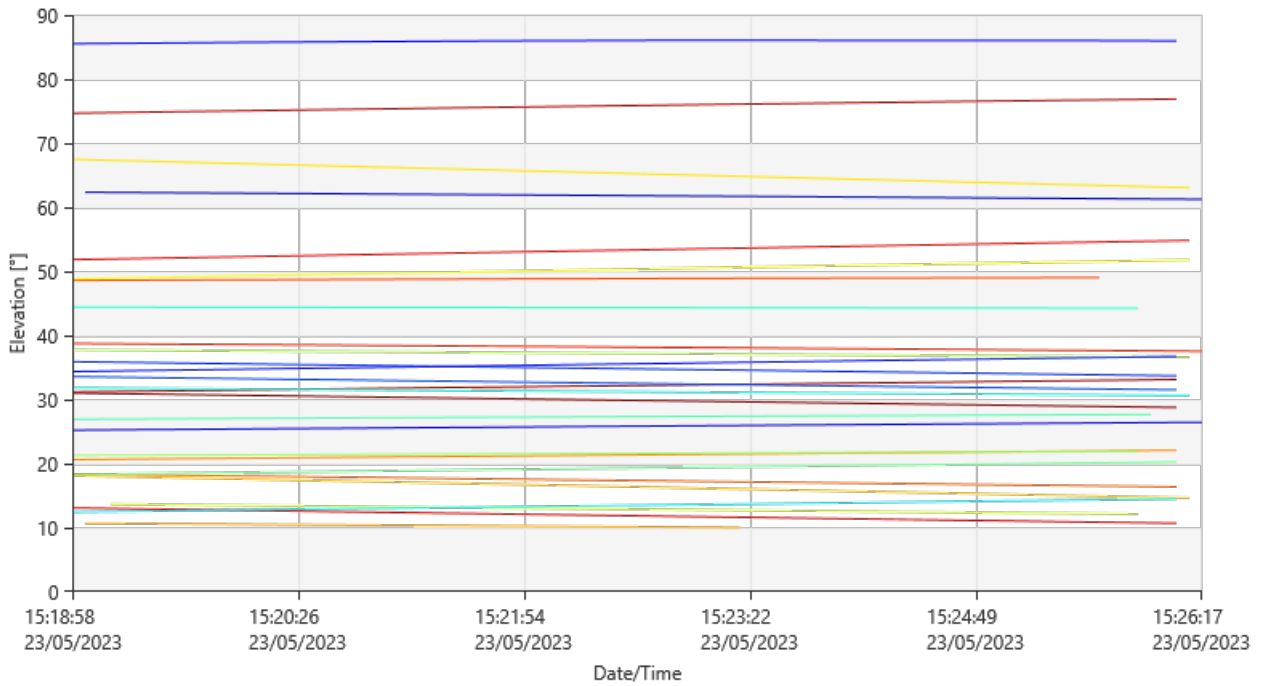
### Signals Tracked



Azimuth



**Elevation**





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:18:58	23/05/2023 15:26:21	00:07:23

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used

### G14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:18:58	23/05/2023 15:19:01	Rejected
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used
	23/05/2023 15:19:01	23/05/2023 15:26:21	No Data
L5	23/05/2023 15:18:58	23/05/2023 15:19:01	Used
	23/05/2023 15:19:01	23/05/2023 15:26:21	Rejected

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used



L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
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G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:18:58	23/05/2023 15:19:01	Rejected
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used
	23/05/2023 15:19:01	23/05/2023 15:26:21	No Data
L5	23/05/2023 15:18:58	23/05/2023 15:19:01	Used
	23/05/2023 15:19:01	23/05/2023 15:26:21	Rejected

G30

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:19:00	No Data
	23/05/2023 15:19:00	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:23:33	Used
	23/05/2023 15:23:33	23/05/2023 15:26:21	No Data
L2	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:18:58	23/05/2023 15:19:06	No Data
	23/05/2023 15:19:01	23/05/2023 15:19:06	Rejected
	23/05/2023 15:19:06	23/05/2023 15:23:33	Used
	23/05/2023 15:23:33	23/05/2023 15:26:21	No Data
L5	23/05/2023 15:19:06	23/05/2023 15:26:21	No Data
	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:23:33	Used
	23/05/2023 15:23:33	23/05/2023 15:26:21	No Data

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:19:12	No Data
	23/05/2023 15:19:12	23/05/2023 15:19:16	Rejected
	23/05/2023 15:19:16	23/05/2023 15:22:33	Used
	23/05/2023 15:22:33	23/05/2023 15:22:36	Rejected
	23/05/2023 15:22:36	23/05/2023 15:25:34	Used
	23/05/2023 15:25:34	23/05/2023 15:25:38	Rejected
	23/05/2023 15:25:38	23/05/2023 15:25:56	Used
	23/05/2023 15:25:56	23/05/2023 15:25:57	No Data
	23/05/2023 15:25:57	23/05/2023 15:25:58	Rejected

	23/05/2023 15:25:58	23/05/2023 15:26:01	No Data
	23/05/2023 15:26:01	23/05/2023 15:26:02	Rejected
	23/05/2023 15:26:02	23/05/2023 15:26:04	No Data
	23/05/2023 15:26:04	23/05/2023 15:26:05	Rejected
	23/05/2023 15:26:05	23/05/2023 15:26:21	No Data
L2	23/05/2023 15:18:58	23/05/2023 15:19:13	No Data
	23/05/2023 15:19:13	23/05/2023 15:19:18	Rejected
	23/05/2023 15:19:18	23/05/2023 15:22:33	Used
	23/05/2023 15:22:33	23/05/2023 15:22:36	Rejected
	23/05/2023 15:22:36	23/05/2023 15:25:34	Used
	23/05/2023 15:25:34	23/05/2023 15:25:38	Rejected
	23/05/2023 15:25:38	23/05/2023 15:25:56	Used
	23/05/2023 15:25:56	23/05/2023 15:25:57	No Data
	23/05/2023 15:25:57	23/05/2023 15:25:58	Rejected
	23/05/2023 15:25:58	23/05/2023 15:26:01	No Data
	23/05/2023 15:26:01	23/05/2023 15:26:02	Rejected
	23/05/2023 15:26:02	23/05/2023 15:26:04	No Data
	23/05/2023 15:26:04	23/05/2023 15:26:05	Rejected
	23/05/2023 15:26:05	23/05/2023 15:26:21	No Data

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
L2	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5b	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5b	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5b	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5b	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:19:00	No Data
	23/05/2023 15:19:00	23/05/2023 15:26:21	Used

E5b	23/05/2023 15:18:58	23/05/2023 15:19:00	No Data
	23/05/2023 15:19:00	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:19:00	No Data
	23/05/2023 15:19:00	23/05/2023 15:26:21	Used

### E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:18:58	23/05/2023 15:19:01	No Data
	23/05/2023 15:19:01	23/05/2023 15:19:02	Rejected
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used
E5a	23/05/2023 15:18:58	23/05/2023 15:19:02	No Data
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used
E5b	23/05/2023 15:18:58	23/05/2023 15:19:02	No Data
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used
E5ab	23/05/2023 15:18:58	23/05/2023 15:19:02	No Data
	23/05/2023 15:19:02	23/05/2023 15:26:21	Used

### C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used
B2	23/05/2023 15:18:58	23/05/2023 15:26:21	Rejected

### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

### C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

### C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:18:58	23/05/2023 15:26:21	Used

## Cycle Slips

Slip Count: 3

SV	Frequency	Epoch	Slip Value	Flag
G30	L2	23/05/2023 15:22:46	-	Flagged
R13	L2	23/05/2023 15:22:34	-	RIA
		23/05/2023 15:22:36	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-6B

## Processing Parameters (23/05/2023 15:22:03 - 23/05/2023 15:29:43)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Iono Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Iono Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-6B

### Acquisition

Start Time - End Time:	23/05/2023 15:22:03 - 23/05/2023 15:29:43
Duration:	00:07:40

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-6B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-6B	Reference - MOQ01058	Rover - PAF-CU2-6B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 16.31074" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 45' 14.10939" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,115.674 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,011,688.470 m		
WGS84 Cartesian Y:	-	-5,761,857.338 m		
WGS84 Cartesian Z:	-	-1,857,753.205 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 00.04172"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 42.41894"	SD ΔLongitude:	0.000 m
ΔHeight:	-823.237 m	SD ΔHeight:	0.000 m
ΔX:	-4,975.163 m	SD ΔX:	0.000 m
ΔY:	-332.409 m	SD ΔY:	0.000 m
ΔZ:	-1,524.731 m	SD ΔZ:	0.000 m

Slope Dist.:	5,214.168 m	SD Slope Dist.:	0.000 m
M0:	0.546 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000010	CQ 3D:	0.000 m
Q22:	0.00000050		
Q13:	-0.00000002		
Q23:	0.00000007		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.8 - 3.2	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.6 - 1.9	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.9	Beidou SVs:	3/3
		VDOP:	1.4 - 1.7	Galileo SVs:	4/4
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

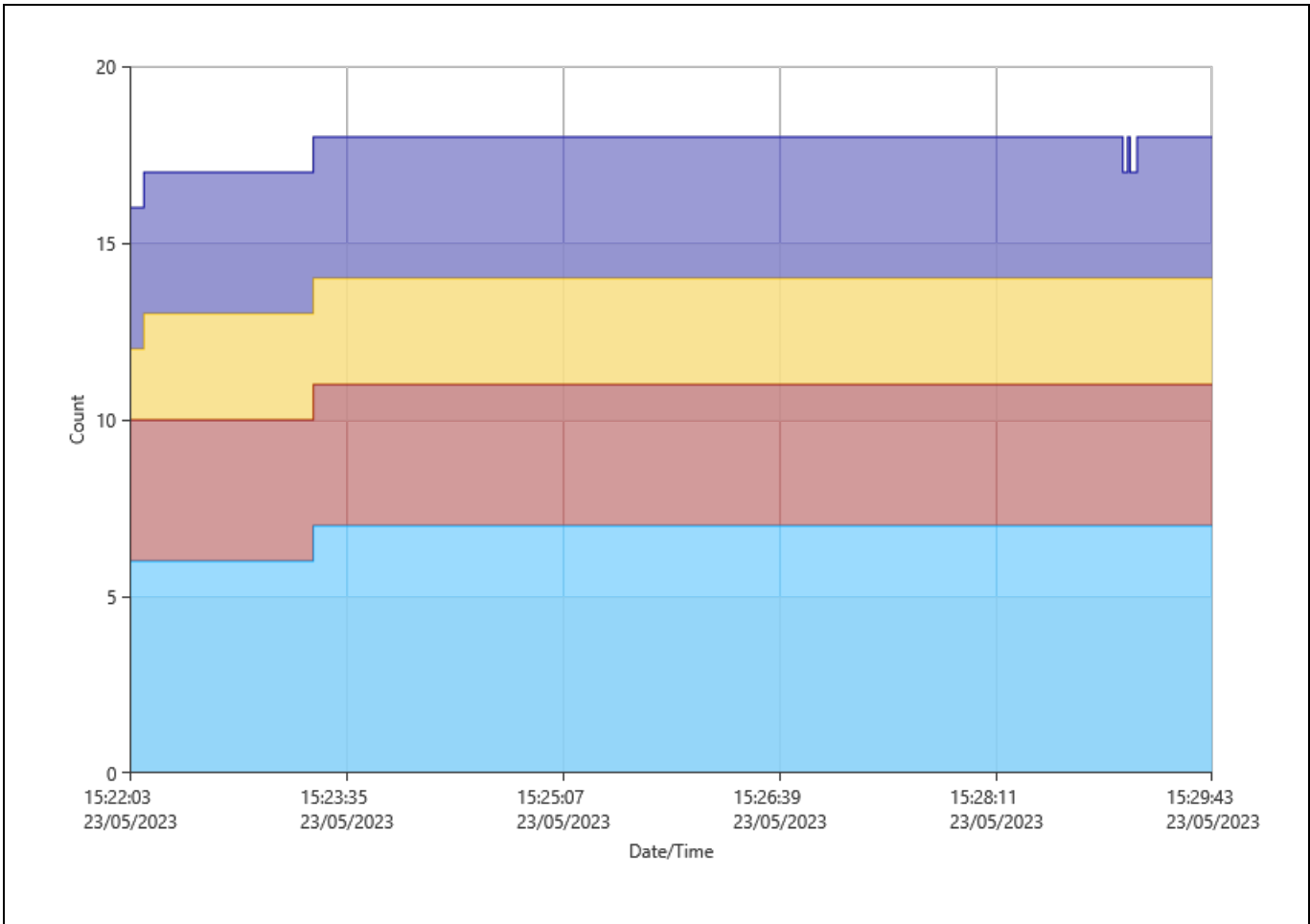
### Processing Info (23/05/2023 15:22:03 - 23/05/2023 15:29:43)

Processed Date/Time: 09/06/2023 17:54:21

### Satellites

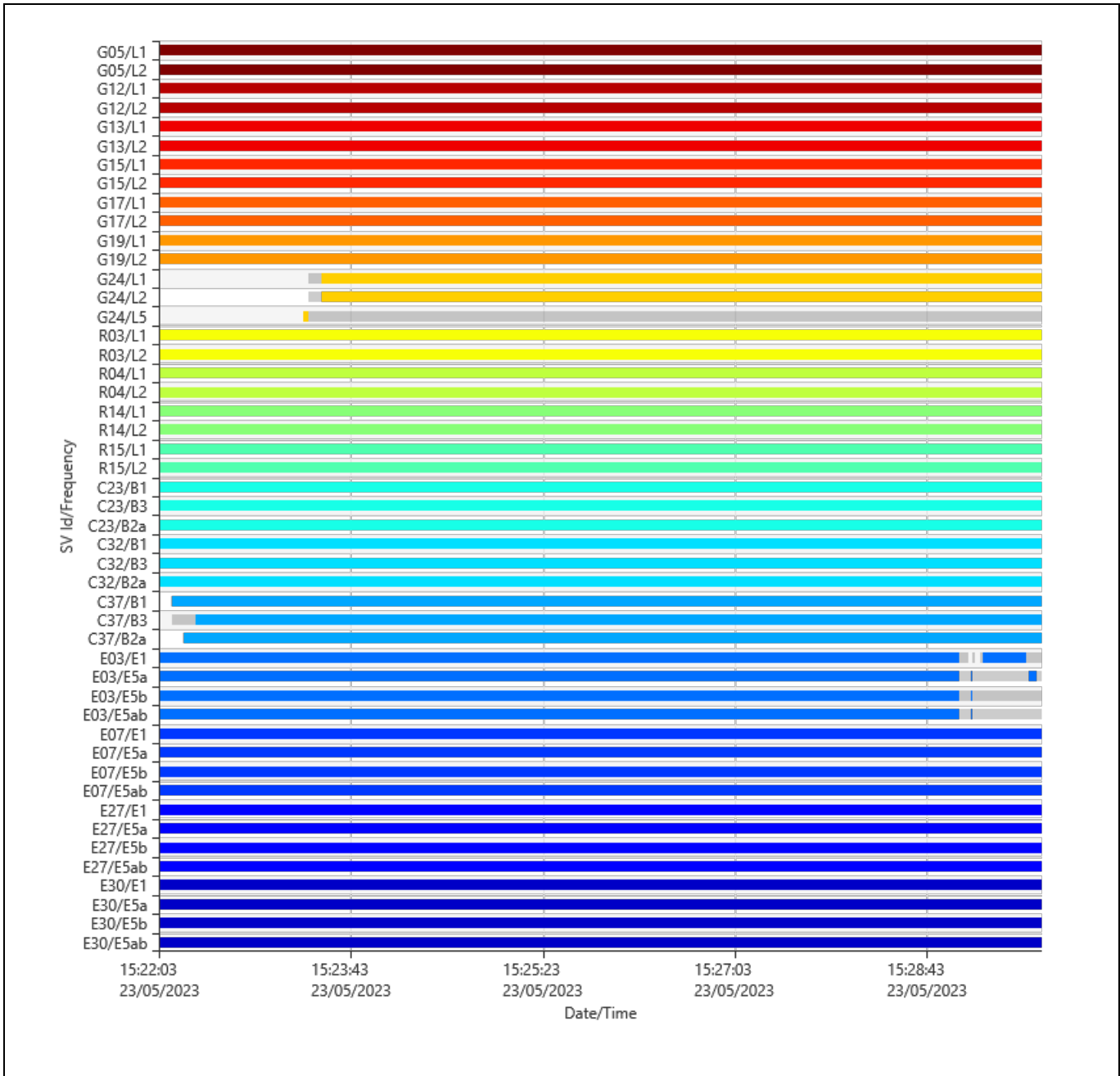
Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G24	-
GLONASS	R03 R04 R14 R15	-
Beidou	C23 C32 C37	-
Galileo	E03 E07 E27 E30	-

### SVs Tracked

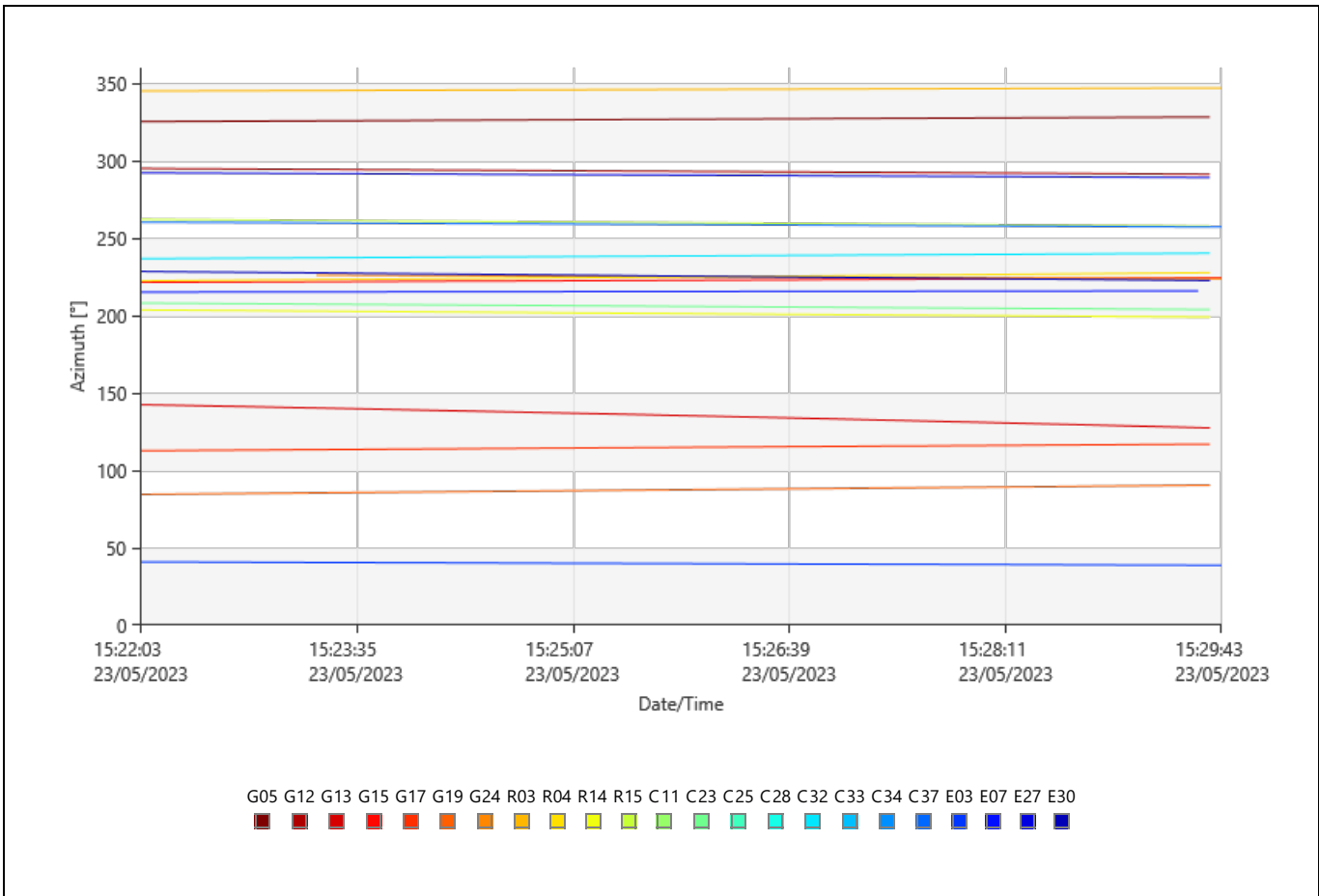




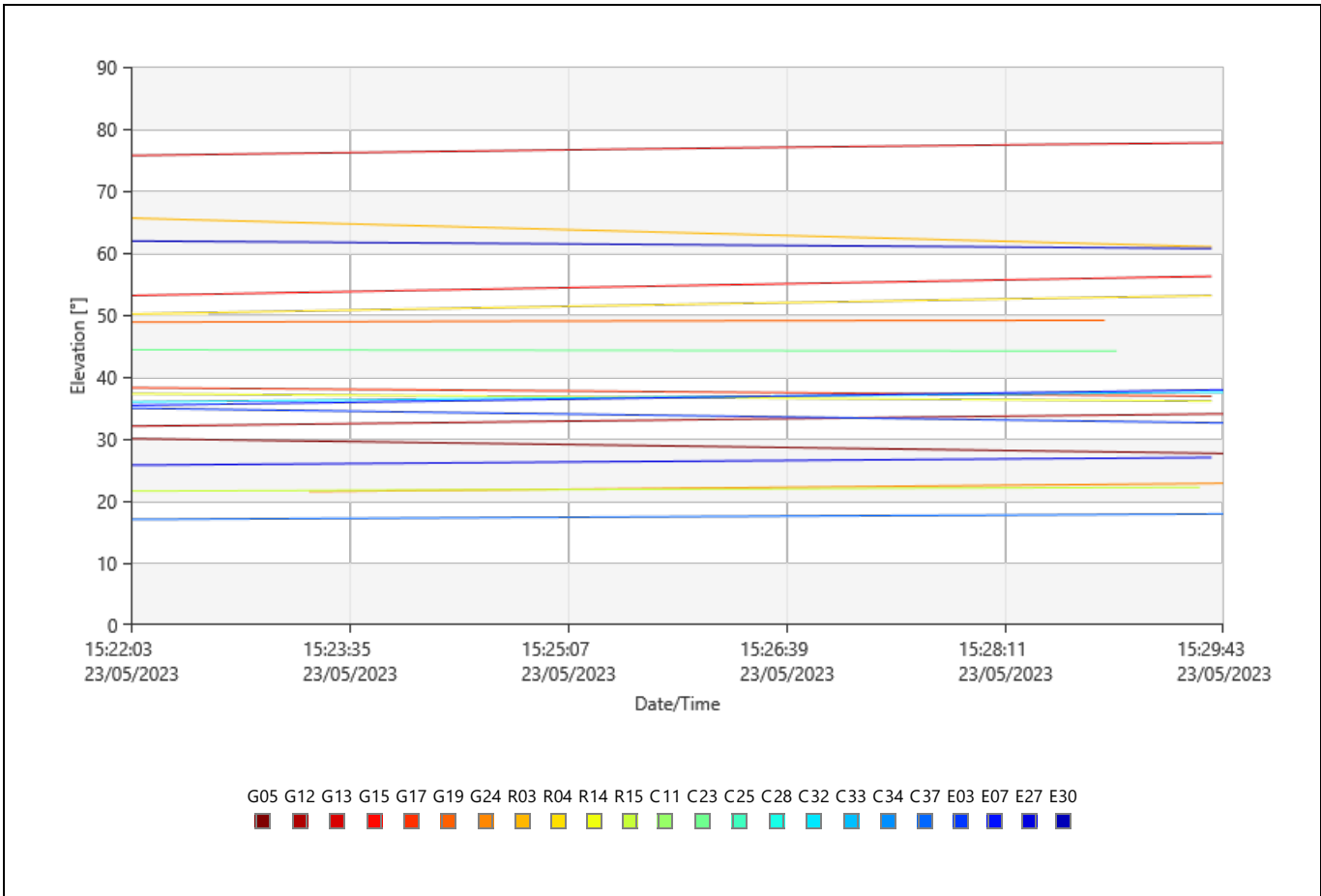
Signals Tracked



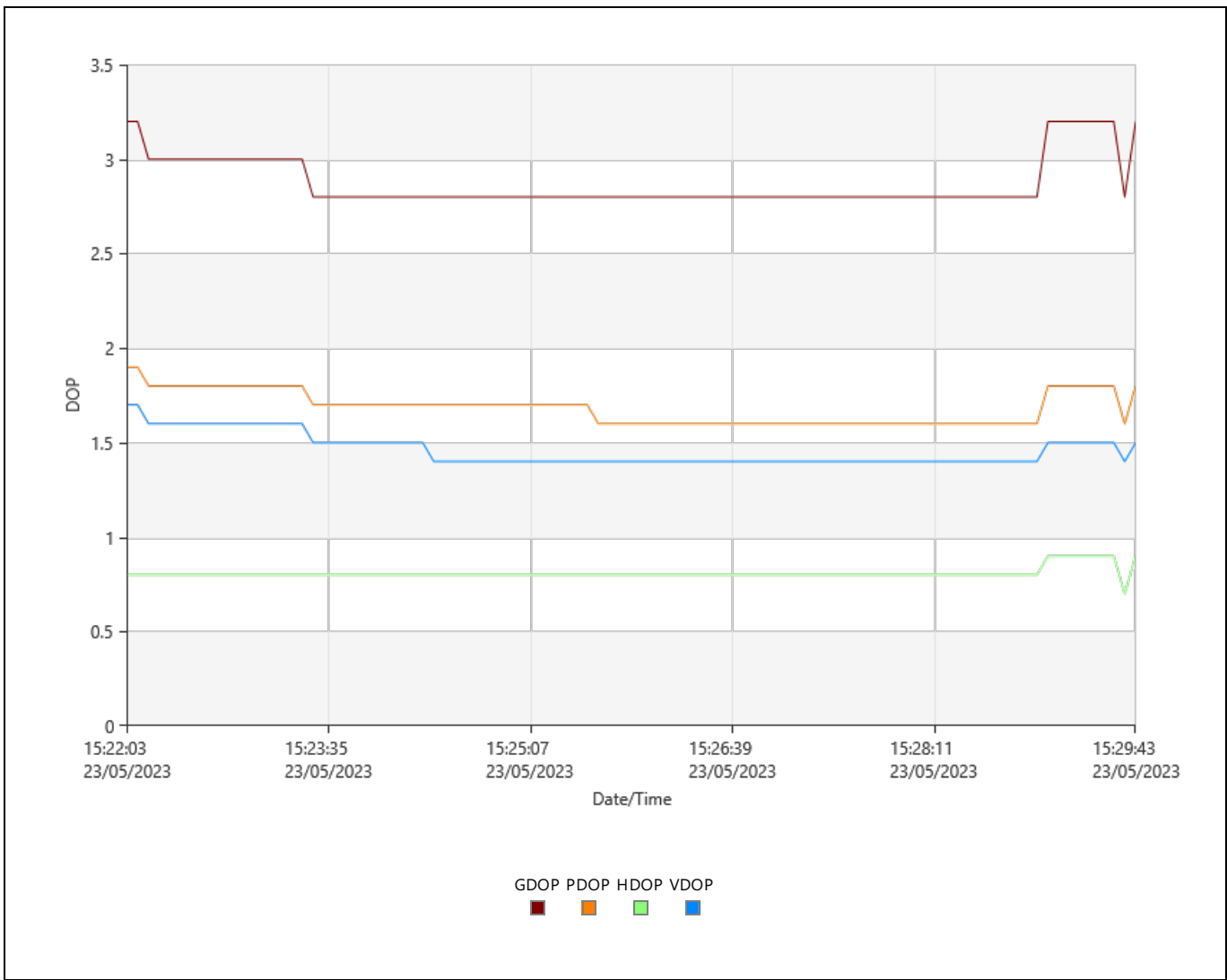
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 461

#### GPS Observations

Frequency	Used	Rejected
L1	3,142	7
L2	3,142	7
L5	3	383

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,844	0
L2	1,844	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,376	1
B3	1,363	13
B2a	1,370	1

#### Galileo Observations

Frequency	Used	Rejected
E1	1,823	16
E5a	1,805	39
E5b	1,801	43
E5ab	1,801	43

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	27	8	9	20
Total	27	8	9	25
Independently fixed	57	57	57	57
Possible independently fixed	57	57	57	57

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.67	99.51	99.67	99.67
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.49	0.33	0.33
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:22:03	23/05/2023 15:29:43	00:07:40



## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

#### G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:23:21	No Data
	23/05/2023 15:23:21	23/05/2023 15:23:28	Rejected
	23/05/2023 15:23:28	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:23:21	No Data
	23/05/2023 15:22:03	23/05/2023 15:23:22	No Data
	23/05/2023 15:23:21	23/05/2023 15:23:22	Rejected
	23/05/2023 15:23:22	23/05/2023 15:23:28	Rejected
	23/05/2023 15:23:28	23/05/2023 15:29:43	Used
	23/05/2023 15:23:22	23/05/2023 15:29:43	No Data

L5	23/05/2023 15:22:03	23/05/2023 15:23:18	No Data
	23/05/2023 15:23:18	23/05/2023 15:23:21	Used
	23/05/2023 15:23:21	23/05/2023 15:29:43	Rejected

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
L2	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:22:03	23/05/2023 15:29:00	Used
	23/05/2023 15:29:00	23/05/2023 15:29:05	Rejected
	23/05/2023 15:29:05	23/05/2023 15:29:07	No Data
	23/05/2023 15:29:07	23/05/2023 15:29:08	Rejected
	23/05/2023 15:29:08	23/05/2023 15:29:11	No Data
	23/05/2023 15:29:11	23/05/2023 15:29:12	Rejected
	23/05/2023 15:29:12	23/05/2023 15:29:35	Used
E5a	23/05/2023 15:29:35	23/05/2023 15:29:43	Rejected
	23/05/2023 15:22:03	23/05/2023 15:29:00	Used
	23/05/2023 15:29:00	23/05/2023 15:29:06	Rejected
	23/05/2023 15:29:06	23/05/2023 15:29:07	Used
	23/05/2023 15:29:07	23/05/2023 15:29:36	Rejected
E5b	23/05/2023 15:29:36	23/05/2023 15:29:40	Used
	23/05/2023 15:29:40	23/05/2023 15:29:43	Rejected
	23/05/2023 15:22:03	23/05/2023 15:29:00	Used
	23/05/2023 15:29:00	23/05/2023 15:29:06	Rejected
E5ab	23/05/2023 15:29:06	23/05/2023 15:29:07	Used
	23/05/2023 15:29:07	23/05/2023 15:29:43	Rejected
	23/05/2023 15:22:03	23/05/2023 15:29:00	Used
	23/05/2023 15:29:00	23/05/2023 15:29:06	Rejected
E5ab	23/05/2023 15:29:06	23/05/2023 15:29:07	Used
	23/05/2023 15:29:07	23/05/2023 15:29:43	Rejected
	23/05/2023 15:29:07	23/05/2023 15:29:43	Rejected

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5a	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5b	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5ab	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5a	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5b	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5ab	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5a	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
E5b	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

E5ab	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
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### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
B3	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
B2a	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

### C32

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:22:03	23/05/2023 15:29:43	Used
B3	23/05/2023 15:22:03	23/05/2023 15:22:04	Rejected
	23/05/2023 15:22:04	23/05/2023 15:29:43	Used
B2a	23/05/2023 15:22:03	23/05/2023 15:29:43	Used

### C37

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:22:03	23/05/2023 15:22:09	No Data
	23/05/2023 15:22:09	23/05/2023 15:22:10	Rejected
	23/05/2023 15:22:10	23/05/2023 15:29:43	Used
B3	23/05/2023 15:22:03	23/05/2023 15:22:10	No Data
	23/05/2023 15:22:10	23/05/2023 15:22:22	Rejected
	23/05/2023 15:22:22	23/05/2023 15:29:43	Used
B2a	23/05/2023 15:22:03	23/05/2023 15:22:15	No Data
	23/05/2023 15:22:15	23/05/2023 15:22:16	Rejected
	23/05/2023 15:22:16	23/05/2023 15:29:43	Used

## Cycle Slips

Slip Count: 9

SV	Frequency	Epoch	Slip Value	Flag
E03	E1	23/05/2023 15:29:00	-	RIA
		23/05/2023 15:29:00	-	RIA
	E5a	23/05/2023 15:29:06	-	RIA
		23/05/2023 15:29:36	4.0000000000	Flagged
		23/05/2023 15:29:40	-	RIA
	E5b	23/05/2023 15:29:00	-	RIA
		23/05/2023 15:29:06	-	RIA
	E5ab	23/05/2023 15:29:00	-	RIA
		23/05/2023 15:29:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.  
**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.  
**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-9A

## Processing Parameters (23/05/2023 15:35:29 - 23/05/2023 15:43:14)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None

Frequency to use in Iono Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Iono Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-9A

### Acquisition

Start Time - End Time:	23/05/2023 15:35:29 - 23/05/2023 15:43:14
Duration:	00:07:45

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-9A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-9A	Reference - MOQ01058	Rover - PAF-CU2-9A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 12.60165" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 44' 45.11356" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,444.353 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,012,613.078 m		
WGS84 Cartesian Y:	-	-5,761,902.719 m		
WGS84 Cartesian Z:	-	-1,857,740.431 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 56.33263"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 13.42311"	SD ΔLongitude:	0.000 m
ΔHeight:	-494.558 m	SD ΔHeight:	0.000 m
ΔX:	-4,050.555 m	SD ΔX:	0.000 m
ΔY:	-377.791 m	SD ΔY:	0.000 m
ΔZ:	-1,511.956 m	SD ΔZ:	0.000 m
Slope Dist.:	4,340.015 m	SD Slope Dist.:	0.000 m

M0:	0.290 m	CQ 1D:	0.000 m
Q11:	0.00000007	CQ 2D:	0.000 m
Q12:	-0.00000007	CQ 3D:	0.000 m
Q22:	0.00000025		
Q13:	-0.00000002		
Q23:	0.00000005		
Q33:	0.00000008		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.6 - 2.2	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.0 - 1.3	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	4/4
		VDOP:	0.8 - 1.1	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

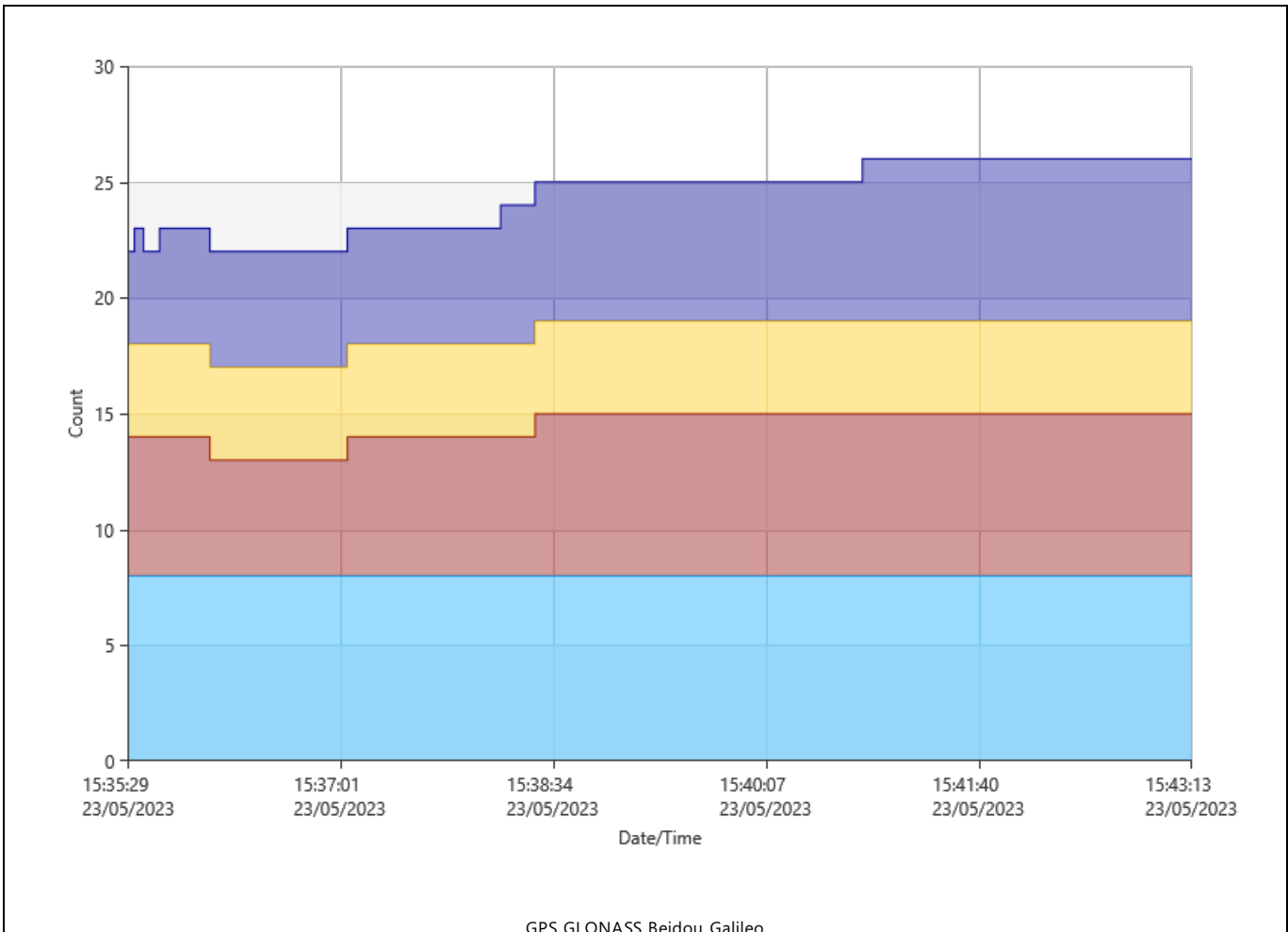
### Processing Info (23/05/2023 15:35:29 - 23/05/2023 15:43:14)

Processed Date/Time: 09/06/2023 17:54:21

### Satellites

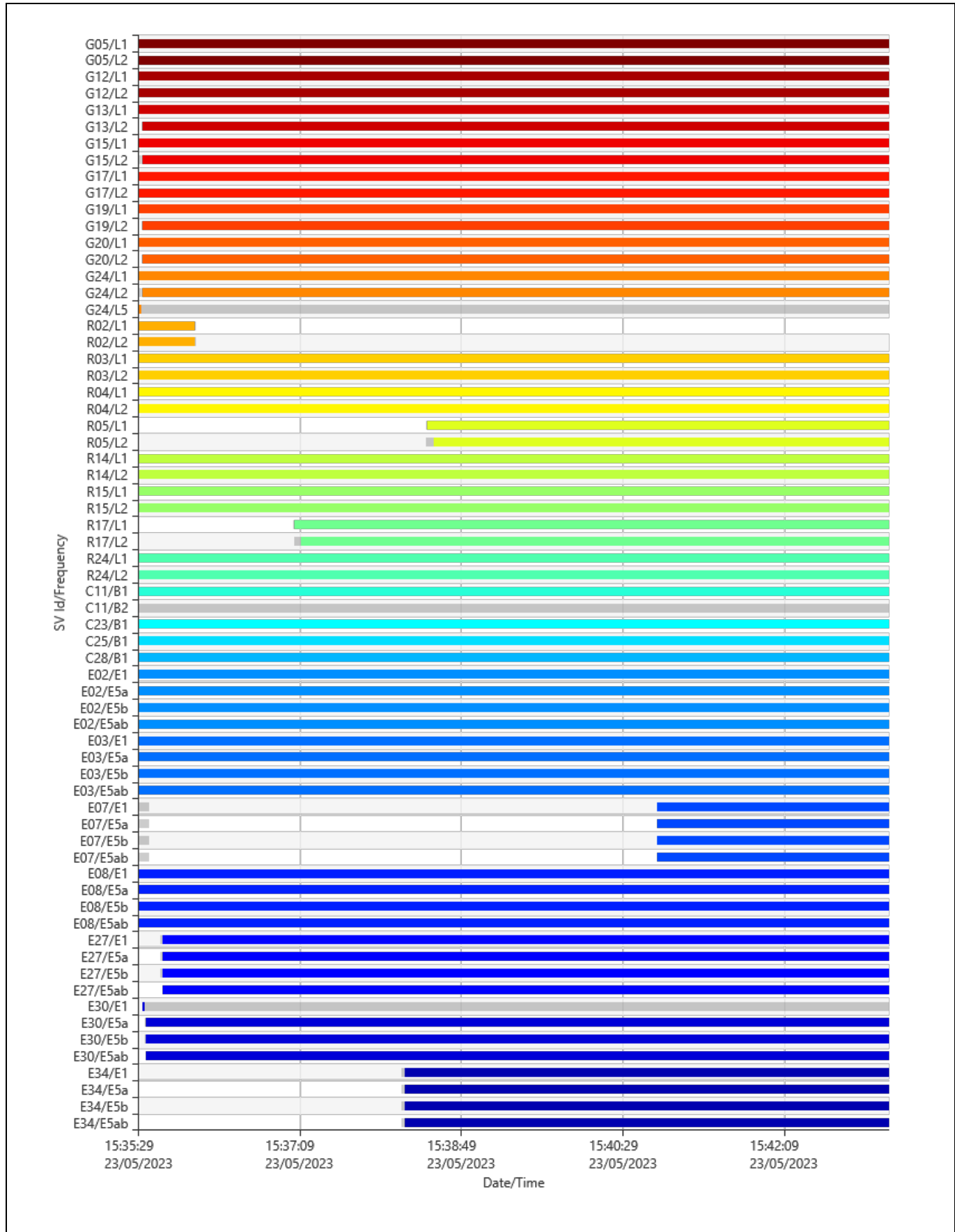
Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G20 G24	-
GLONASS	R02 R03 R04 R05 R14 R15 R17 R24	-
Beidou	C11 C23 C25 C28	-
Galileo	E02 E03 E07 E08 E27 E30 E34	-

### SVs Tracked

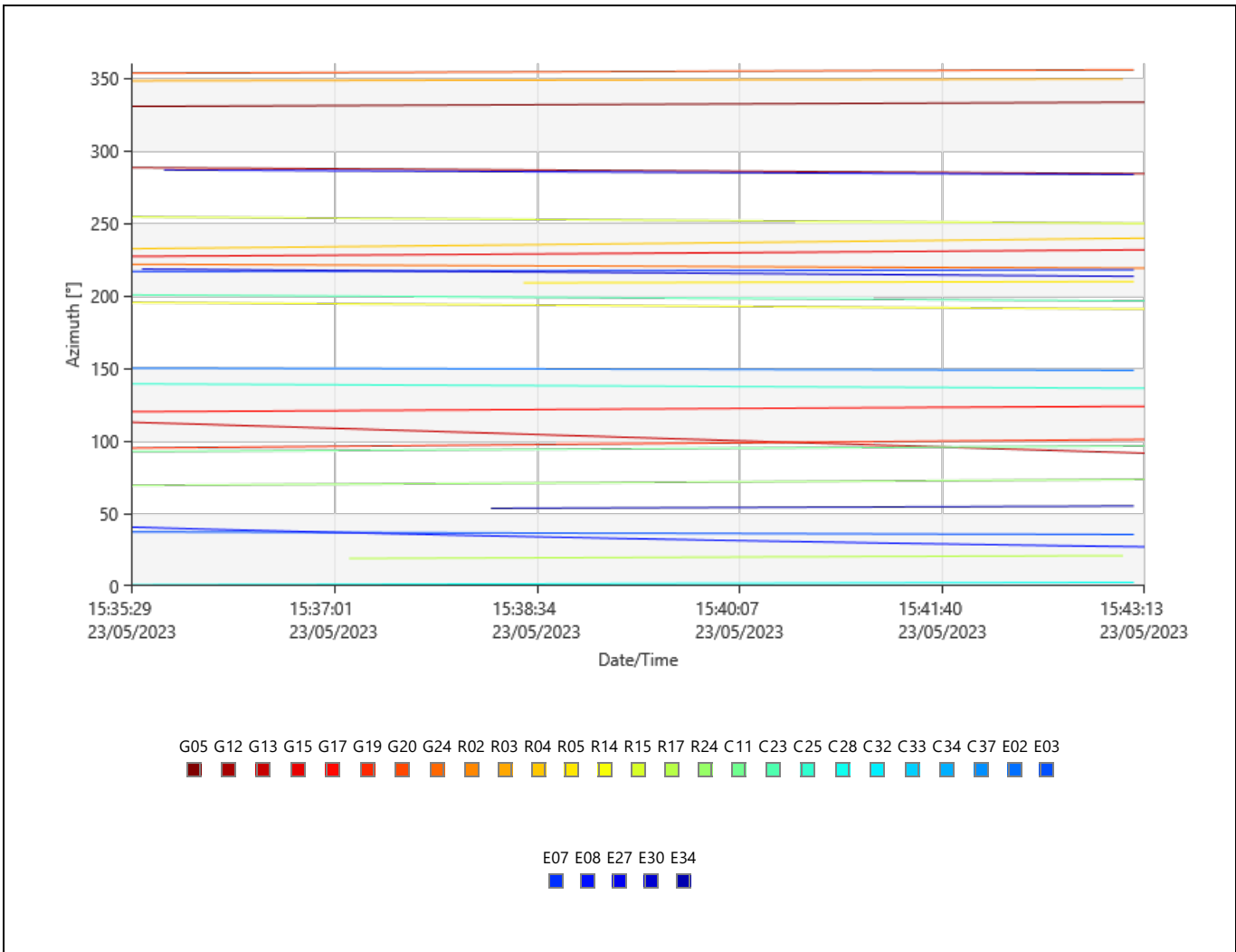




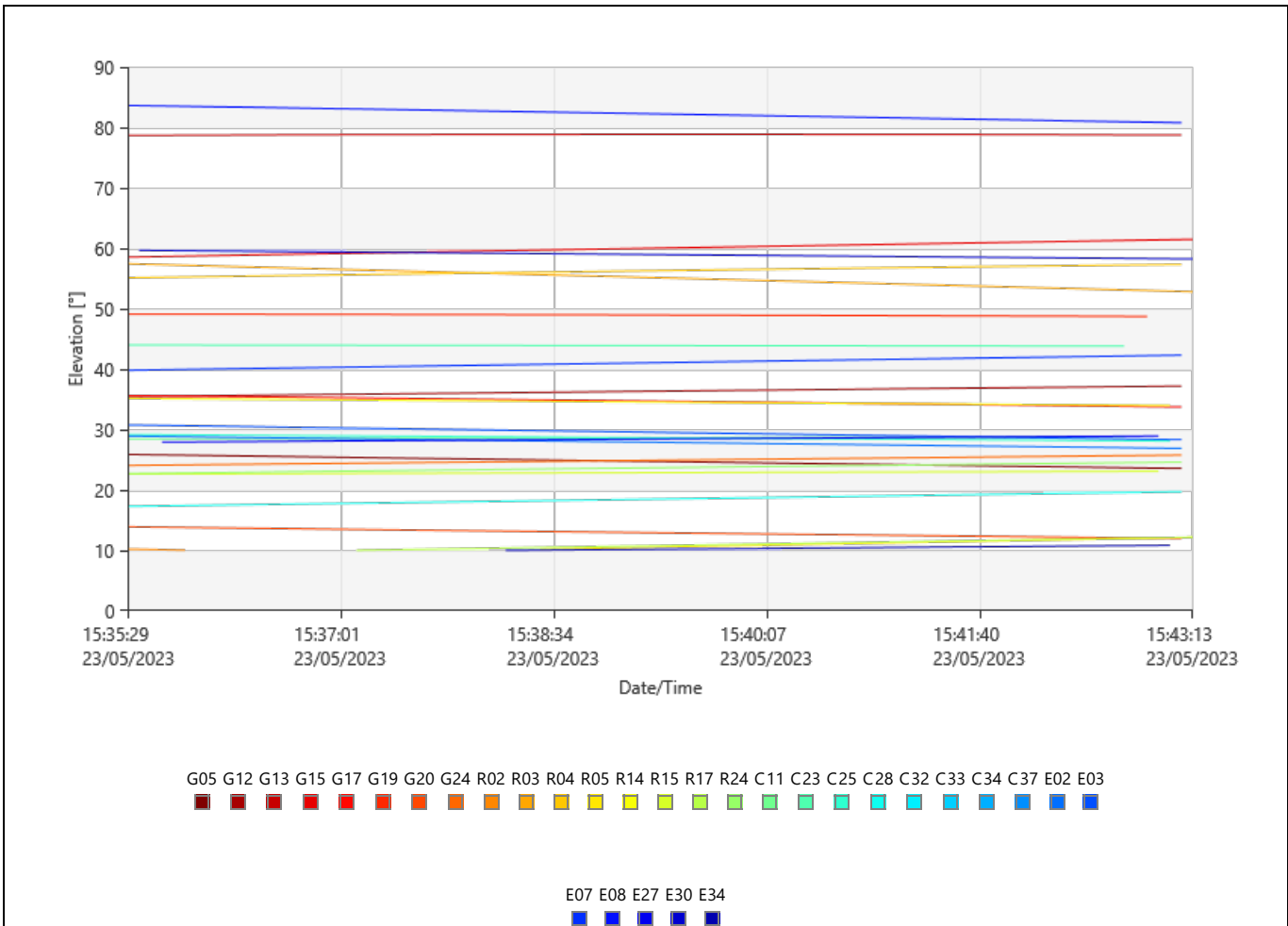
### Signals Tracked



### Azimuth



**Elevation**







Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:35:29	23/05/2023 15:43:14	00:07:45

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:35:31	No Data
	23/05/2023 15:35:31	23/05/2023 15:35:32	Rejected
	23/05/2023 15:35:32	23/05/2023 15:43:14	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:35:31	No Data
	23/05/2023 15:35:29	23/05/2023 15:35:31	Rejected
	23/05/2023 15:35:31	23/05/2023 15:35:32	Rejected
	23/05/2023 15:35:32	23/05/2023 15:43:14	Used
	23/05/2023 15:35:31	23/05/2023 15:43:14	No Data

### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

### G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:35:31	No Data
	23/05/2023 15:35:31	23/05/2023 15:35:32	Rejected

	23/05/2023 15:35:32	23/05/2023 15:43:14	Used
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G20

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:35:31	No Data
	23/05/2023 15:35:31	23/05/2023 15:35:32	Rejected
	23/05/2023 15:35:32	23/05/2023 15:43:14	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:35:31	No Data
	23/05/2023 15:35:29	23/05/2023 15:35:31	Rejected
	23/05/2023 15:35:31	23/05/2023 15:35:32	Rejected
	23/05/2023 15:35:32	23/05/2023 15:43:14	Used
	23/05/2023 15:35:31	23/05/2023 15:43:14	No Data
L5	23/05/2023 15:35:29	23/05/2023 15:35:31	Used
	23/05/2023 15:35:31	23/05/2023 15:43:14	Rejected

R02

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:36:04	Used
	23/05/2023 15:36:04	23/05/2023 15:36:05	Rejected
	23/05/2023 15:36:05	23/05/2023 15:43:14	No Data
L2	23/05/2023 15:35:29	23/05/2023 15:36:04	Used
	23/05/2023 15:36:04	23/05/2023 15:36:05	Rejected
	23/05/2023 15:36:05	23/05/2023 15:43:14	No Data

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

R05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:38:27	No Data
	23/05/2023 15:38:27	23/05/2023 15:38:28	Rejected
	23/05/2023 15:38:28	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:38:27	No Data
	23/05/2023 15:38:27	23/05/2023 15:38:32	Rejected
	23/05/2023 15:38:32	23/05/2023 15:43:14	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

R17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:37:05	No Data
	23/05/2023 15:37:05	23/05/2023 15:37:06	Rejected
	23/05/2023 15:37:06	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:37:06	No Data
	23/05/2023 15:37:06	23/05/2023 15:37:10	Rejected
	23/05/2023 15:37:10	23/05/2023 15:43:14	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
L2	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:35:30	No Data
	23/05/2023 15:35:30	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:35:30	No Data
	23/05/2023 15:35:30	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:35:30	No Data
	23/05/2023 15:35:30	23/05/2023 15:43:14	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:35:36	Rejected
	23/05/2023 15:35:36	23/05/2023 15:40:50	No Data
	23/05/2023 15:40:50	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:35:36	Rejected
	23/05/2023 15:35:36	23/05/2023 15:40:50	No Data
	23/05/2023 15:40:50	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:35:36	Rejected
	23/05/2023 15:35:36	23/05/2023 15:40:50	No Data
	23/05/2023 15:40:50	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:35:36	Rejected
	23/05/2023 15:35:36	23/05/2023 15:40:50	No Data
	23/05/2023 15:40:50	23/05/2023 15:43:14	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:35:43	No Data
	23/05/2023 15:35:43	23/05/2023 15:35:44	Rejected
	23/05/2023 15:35:44	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:35:43	No Data
	23/05/2023 15:35:43	23/05/2023 15:35:44	Rejected
	23/05/2023 15:35:44	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:35:43	No Data
	23/05/2023 15:35:43	23/05/2023 15:35:44	Rejected
	23/05/2023 15:35:44	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:35:44	No Data
	23/05/2023 15:35:44	23/05/2023 15:43:14	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:35:32	No Data
	23/05/2023 15:35:32	23/05/2023 15:35:33	Used
	23/05/2023 15:35:33	23/05/2023 15:43:14	Rejected
E5a	23/05/2023 15:35:29	23/05/2023 15:35:33	No Data
	23/05/2023 15:35:33	23/05/2023 15:35:34	Rejected
	23/05/2023 15:35:34	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:35:33	No Data
	23/05/2023 15:35:33	23/05/2023 15:35:34	Rejected
	23/05/2023 15:35:34	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:35:34	No Data

	23/05/2023 15:35:34	23/05/2023 15:43:14	Used
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#### E34

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:35:29	23/05/2023 15:38:12	No Data
	23/05/2023 15:38:12	23/05/2023 15:38:14	Rejected
	23/05/2023 15:38:14	23/05/2023 15:43:14	Used
E5a	23/05/2023 15:35:29	23/05/2023 15:38:12	No Data
	23/05/2023 15:38:12	23/05/2023 15:38:14	Rejected
	23/05/2023 15:38:14	23/05/2023 15:43:14	Used
E5b	23/05/2023 15:35:29	23/05/2023 15:38:12	No Data
	23/05/2023 15:38:12	23/05/2023 15:38:14	Rejected
	23/05/2023 15:38:14	23/05/2023 15:43:14	Used
E5ab	23/05/2023 15:35:29	23/05/2023 15:38:12	No Data
	23/05/2023 15:38:12	23/05/2023 15:38:14	Rejected
	23/05/2023 15:38:14	23/05/2023 15:43:14	Used

#### C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used
B2	23/05/2023 15:35:29	23/05/2023 15:43:14	Rejected

#### C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

#### C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

#### C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:35:29	23/05/2023 15:43:14	Used

### Cycle Slips

Slip Count: 0

### Processing Messages

#### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-10A

### Processing Parameters (23/05/2023 15:51:01 - 23/05/2023 15:58:48)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Iono Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-10A

### Acquisition

Start Time - End Time: 23/05/2023 15:51:01 - 23/05/2023 15:58:48  
Duration: 00:07:47

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-10A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-10A	Reference - MOQ01058	Rover - PAF-CU2-10A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 01.08917" S	Easting: 318,107.441 m	314,297.068 m
WGS84 Longitude:	-	70° 44' 40.94167" W	Northing: 8,117,307.121 m	8,115,895.565 m
WGS84 Ellip. Height:	-	3,447.476 m	Ortho. Height: 3,897.429 m	3,406.445 m
WGS84 Cartesian X:	-	2,012,764.812 m		
WGS84 Cartesian Y:	-	-5,761,962.765 m		
WGS84 Cartesian Z:	-	-1,857,402.778 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 44.82016"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 09.25122"	SD ΔLongitude:	0.000 m
ΔHeight:	-491.435 m	SD ΔHeight:	0.000 m
ΔX:	-3,898.820 m	SD ΔX:	0.000 m
ΔY:	-437.836 m	SD ΔY:	0.000 m
ΔZ:	-1,174.304 m	SD ΔZ:	0.000 m
Slope Dist.:	4,095.301 m	SD Slope Dist.:	0.000 m

M0:	0.321 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000008	CQ 3D:	0.000 m
Q22:	0.00000025		

Q13: -0.00000003  
 Q23: 0.00000007  
 Q33: 0.00000010

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 2.6	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.1 - 1.4	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	4/4
		VDOP:	0.9 - 1.3	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:  
 GPS: Precise  
 GLONASS: Precise  
 Beidou: Precise  
 Galileo: Precise

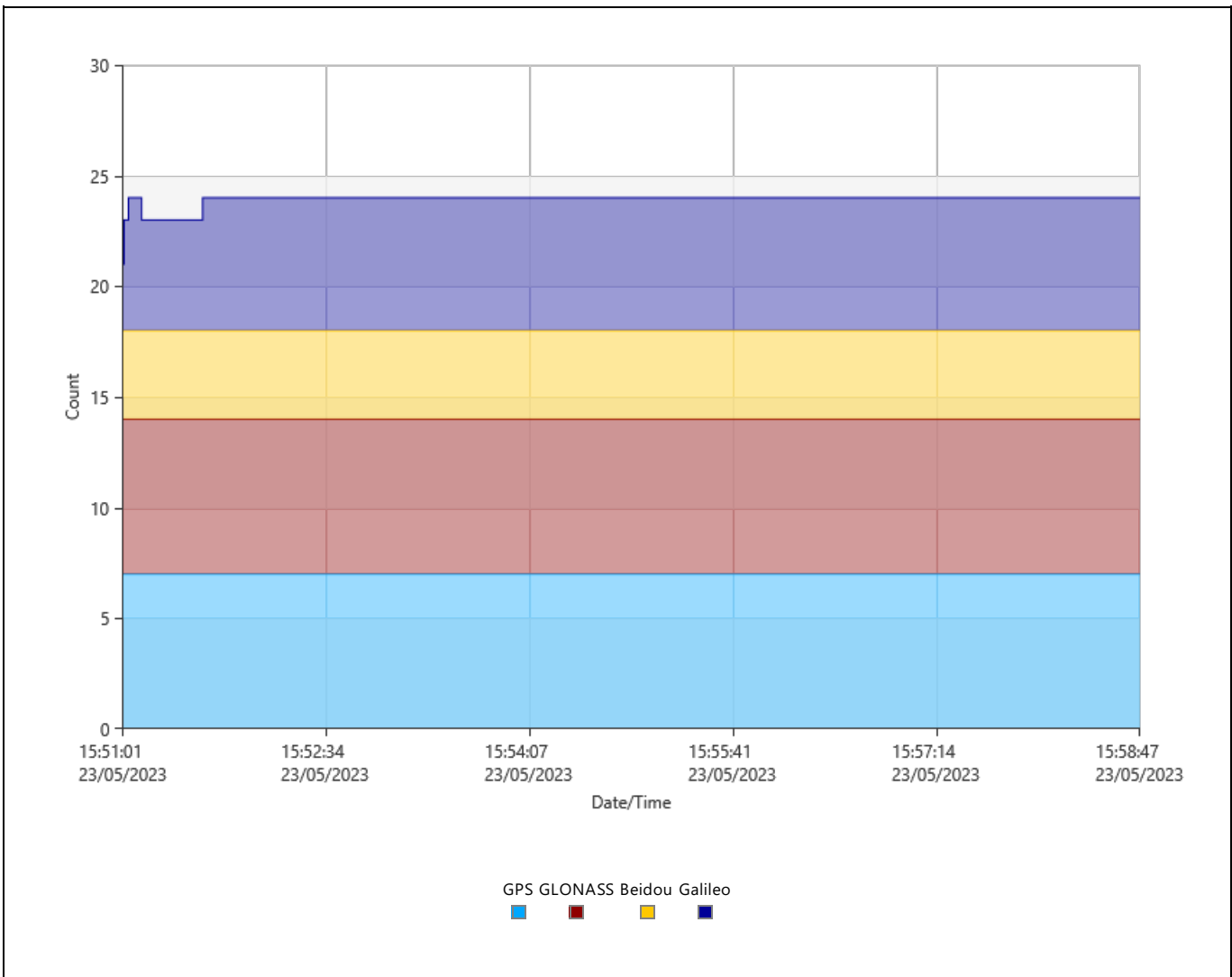
### Processing Info (23/05/2023 15:51:01 - 23/05/2023 15:58:48)

Processed Date/Time: 09/06/2023 17:54:21

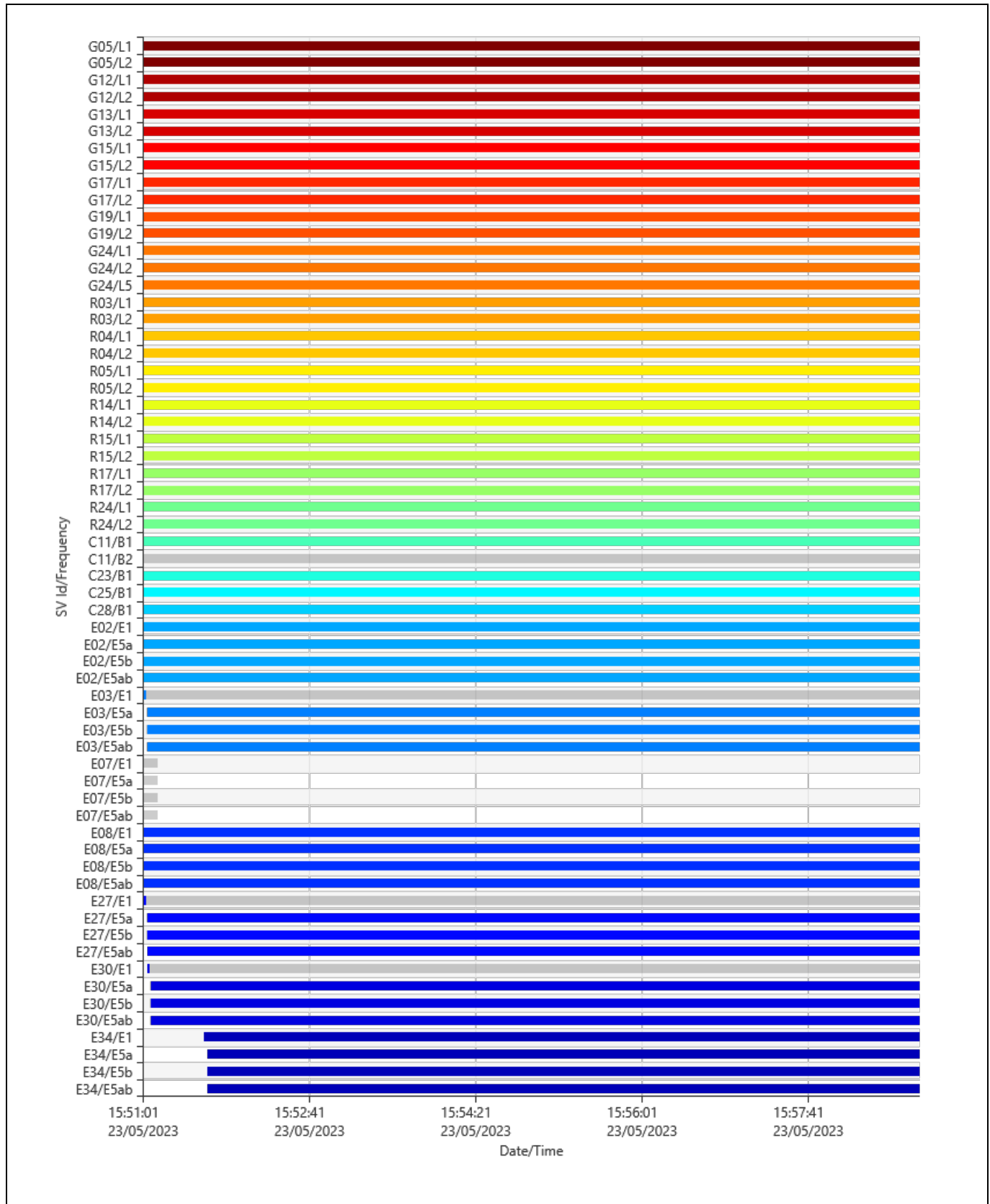
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 - G24	
GLONASS	R03 R04 R05 R14 R15 R17 - R24	
Beidou	C11 C23 C25 C28	-
Galileo	E02 E03 E08 E27 E30 E34	-

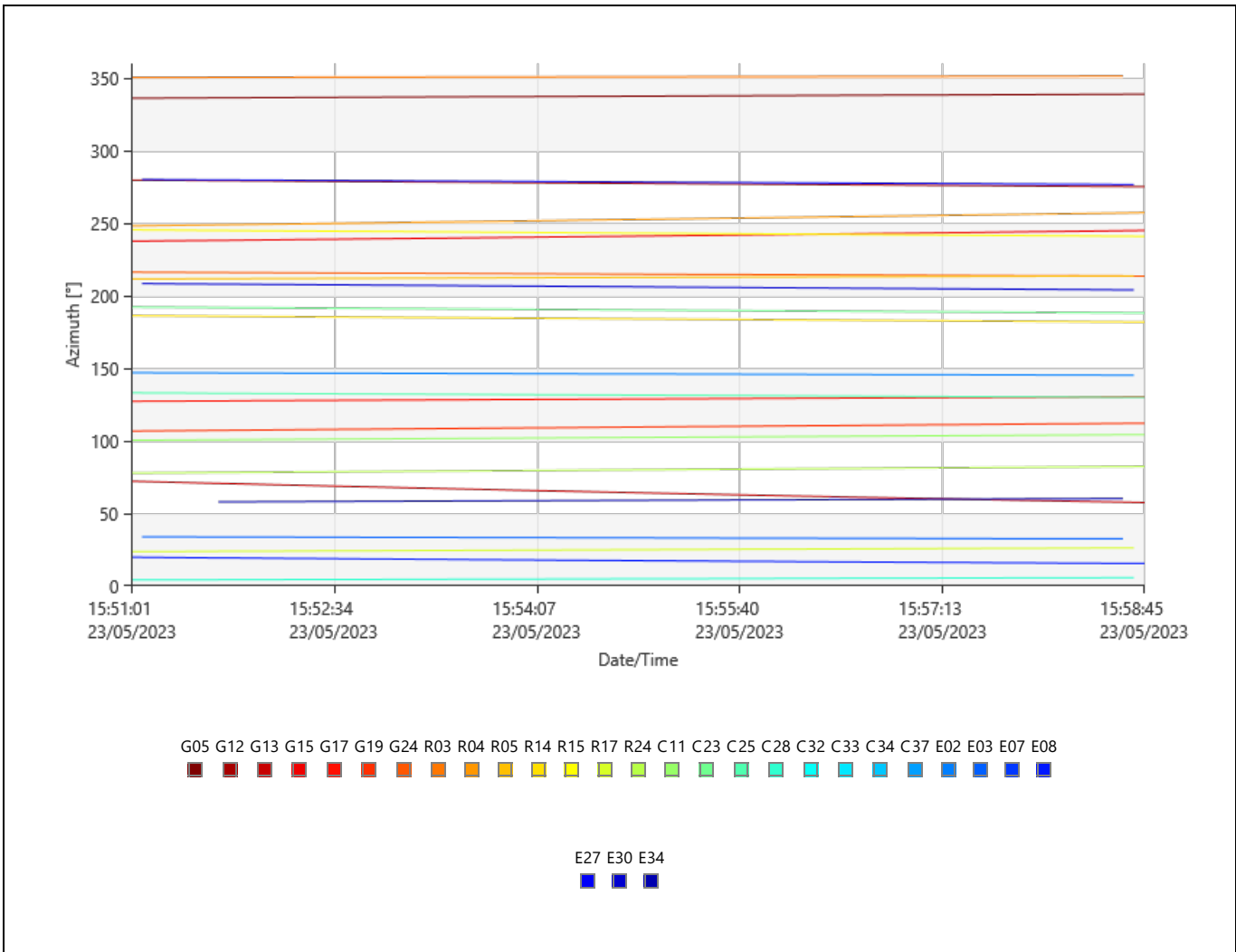
### SVs Tracked



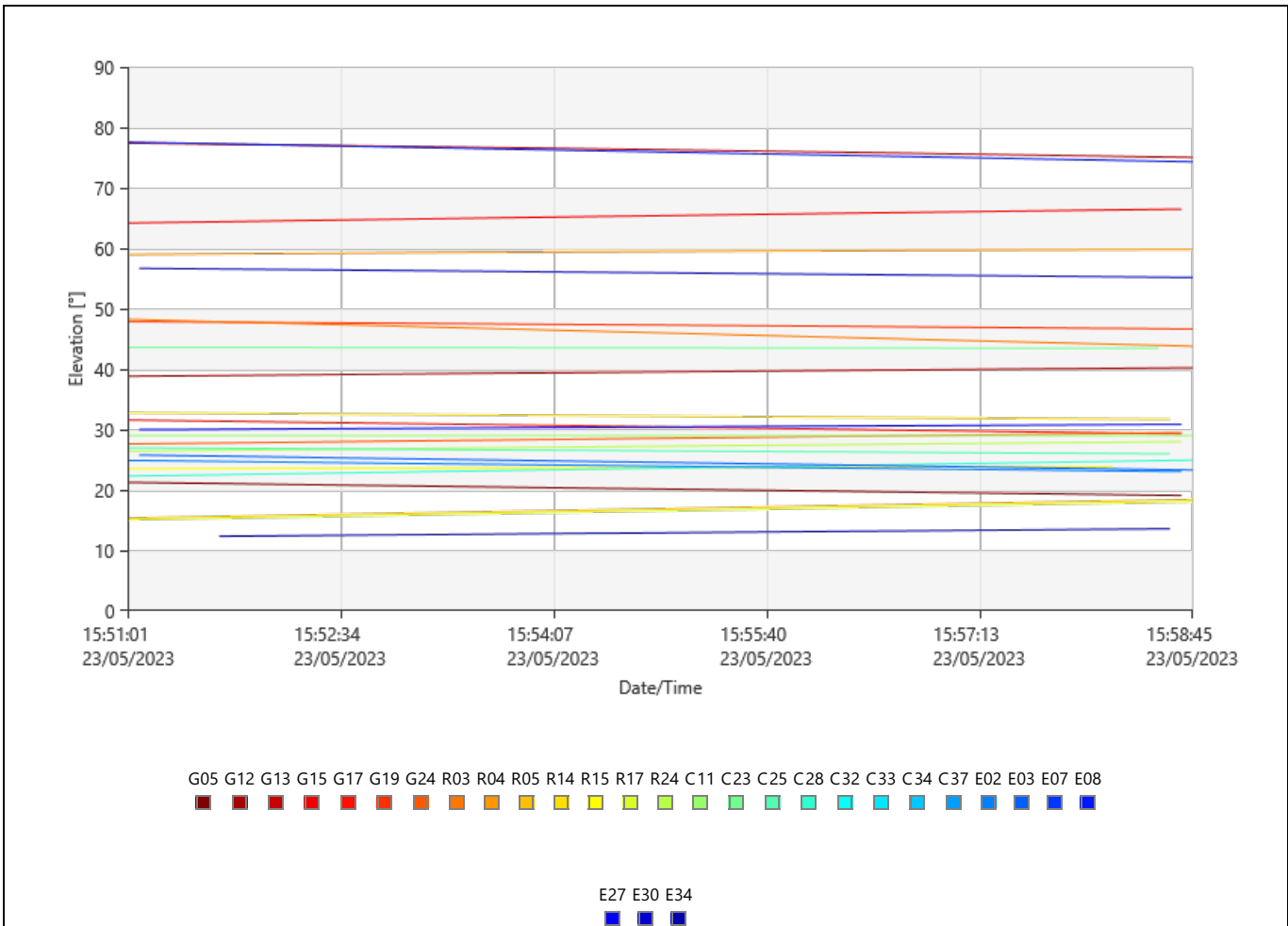
Signals Tracked



Azimuth



**Elevation**







Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:51:01	23/05/2023 15:58:48	00:07:47

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:51:02	Rejected
	23/05/2023 15:51:02	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:51:02	Rejected
	23/05/2023 15:51:02	23/05/2023 15:58:48	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

### G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

### G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

L5	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
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R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
L2	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
E5a	23/05/2023 15:51:01	23/05/2023 15:51:02	No Data
	23/05/2023 15:51:02	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:02	No Data
	23/05/2023 15:51:02	23/05/2023 15:58:48	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:51:02	No Data
	23/05/2023 15:51:02	23/05/2023 15:51:03	Used
	23/05/2023 15:51:03	23/05/2023 15:58:48	Rejected
E5a	23/05/2023 15:51:01	23/05/2023 15:51:03	No Data
	23/05/2023 15:51:03	23/05/2023 15:51:04	Rejected
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:51:03	No Data
	23/05/2023 15:51:03	23/05/2023 15:51:04	Rejected
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:03	No Data
	23/05/2023 15:51:03	23/05/2023 15:51:04	Rejected
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:51:10	Rejected
	23/05/2023 15:51:10	23/05/2023 15:58:48	No Data
E5a	23/05/2023 15:51:01	23/05/2023 15:51:10	Rejected
	23/05/2023 15:51:10	23/05/2023 15:58:48	No Data

E5b	23/05/2023 15:51:01	23/05/2023 15:51:10	Rejected
	23/05/2023 15:51:10	23/05/2023 15:58:48	No Data
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:10	Rejected
	23/05/2023 15:51:10	23/05/2023 15:58:48	No Data

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
E5a	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:51:02	No Data
	23/05/2023 15:51:02	23/05/2023 15:51:03	Used
	23/05/2023 15:51:03	23/05/2023 15:58:48	Rejected
E5a	23/05/2023 15:51:01	23/05/2023 15:51:03	No Data
	23/05/2023 15:51:03	23/05/2023 15:51:04	Rejected
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:51:03	No Data
	23/05/2023 15:51:03	23/05/2023 15:51:04	Rejected
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:04	No Data
	23/05/2023 15:51:04	23/05/2023 15:58:48	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:51:04	No Data
	23/05/2023 15:51:04	23/05/2023 15:51:05	Used
	23/05/2023 15:51:05	23/05/2023 15:58:48	Rejected
E5a	23/05/2023 15:51:01	23/05/2023 15:51:05	No Data
	23/05/2023 15:51:05	23/05/2023 15:51:06	Rejected
	23/05/2023 15:51:06	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:51:05	No Data
	23/05/2023 15:51:05	23/05/2023 15:51:06	Rejected
	23/05/2023 15:51:06	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:05	No Data
	23/05/2023 15:51:05	23/05/2023 15:51:06	Rejected
	23/05/2023 15:51:06	23/05/2023 15:58:48	Used

E34

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:51:01	23/05/2023 15:51:38	No Data
	23/05/2023 15:51:38	23/05/2023 15:58:48	Used
E5a	23/05/2023 15:51:01	23/05/2023 15:51:40	No Data
	23/05/2023 15:51:40	23/05/2023 15:58:48	Used
E5b	23/05/2023 15:51:01	23/05/2023 15:51:40	No Data
	23/05/2023 15:51:40	23/05/2023 15:58:48	Used
E5ab	23/05/2023 15:51:01	23/05/2023 15:51:40	No Data
	23/05/2023 15:51:40	23/05/2023 15:58:48	Used

C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used
B2	23/05/2023 15:51:01	23/05/2023 15:58:48	Rejected

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:51:01	23/05/2023 15:58:48	Used

## Cycle Slips

Slip Count: 0

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-7B

### Processing Parameters (23/05/2023 15:57:57 - 23/05/2023 16:04:18)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-7B

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### Acquisition

Start Time - End Time: 23/05/2023 15:57:57 - 23/05/2023 16:04:18  
Duration: 00:06:21

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-7B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2

East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-7B		Reference - MOQ01058	Rover - PAF-CU2-7B
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 26.74793" S	Easting:	318,107.441 m	314,292.257 m
WGS84 Longitude:	-	70° 44' 41.34242" W	Northing:	8,117,307.121 m	8,115,106.679 m
WGS84 Ellip. Height:	-	3,540.487 m	Ortho. Height:	3,897.429 m	3,499.514 m
WGS84 Cartesian X:	-	2,012,706.687 m			
WGS84 Cartesian Y:	-	-5,761,832.328 m			
WGS84 Cartesian Z:	-	-1,858,184.620 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 10.47892"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 09.65198"	SD ΔLongitude:	0.000 m
ΔHeight:	-398.424 m	SD ΔHeight:	0.000 m
ΔX:	-3,956.945 m	SD ΔX:	0.000 m
ΔY:	-307.400 m	SD ΔY:	0.000 m
ΔZ:	-1,956.145 m	SD ΔZ:	0.000 m
Slope Dist.:	4,424.750 m	SD Slope Dist.:	0.000 m

M0:	0.282 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000010	CQ 3D:	0.000 m
Q22:	0.00000031		
Q13:	-0.00000004		
Q23:	0.00000008		
Q33:	0.00000010		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.5 - 2.0	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.0 - 1.3	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.4 - 0.5	Beidou SVs:	7/7
		VDOP:	0.8 - 1.1	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

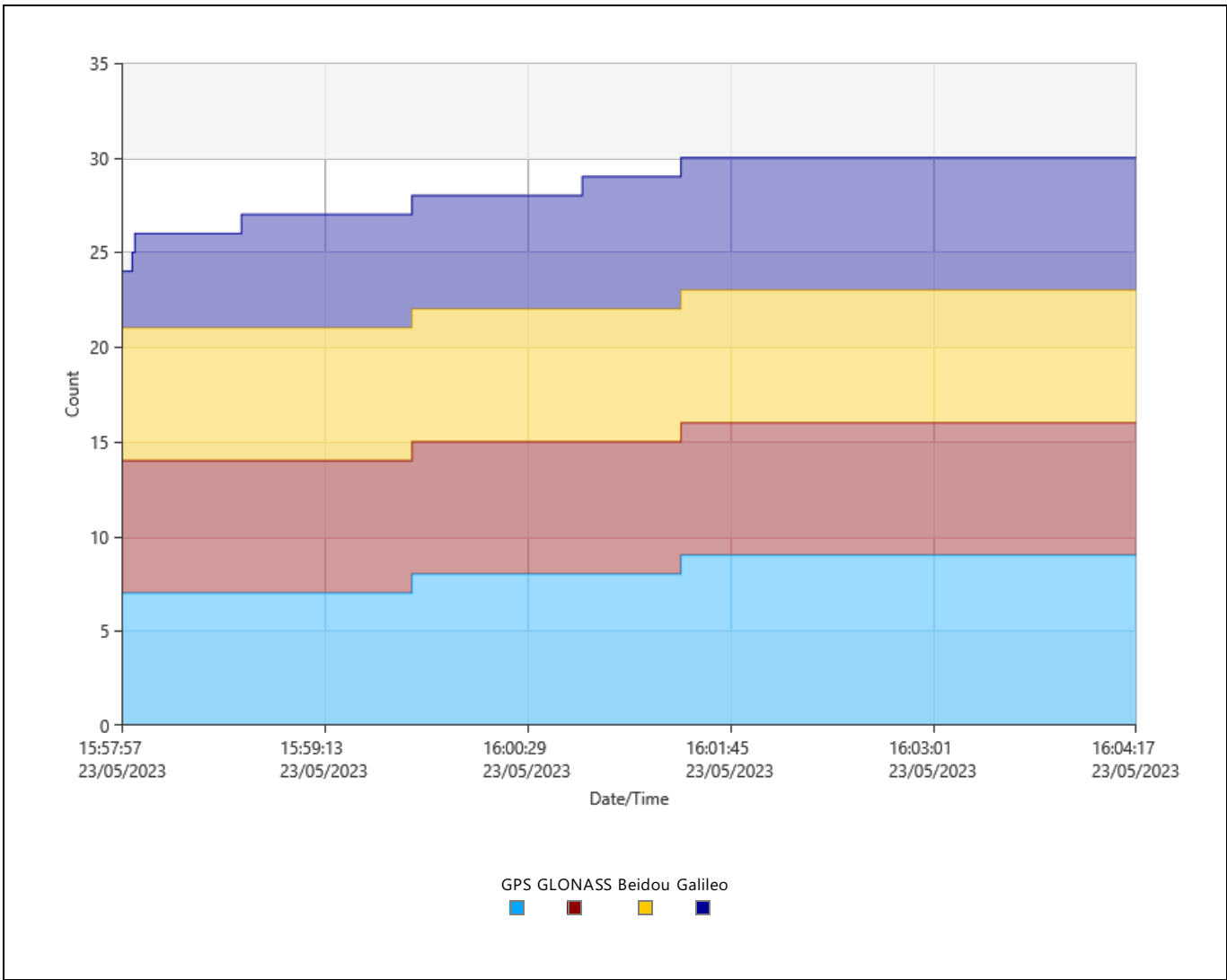
## Processing Info (23/05/2023 15:57:57 - 23/05/2023 16:04:18)

Processed Date/Time: 09/06/2023 17:54:21

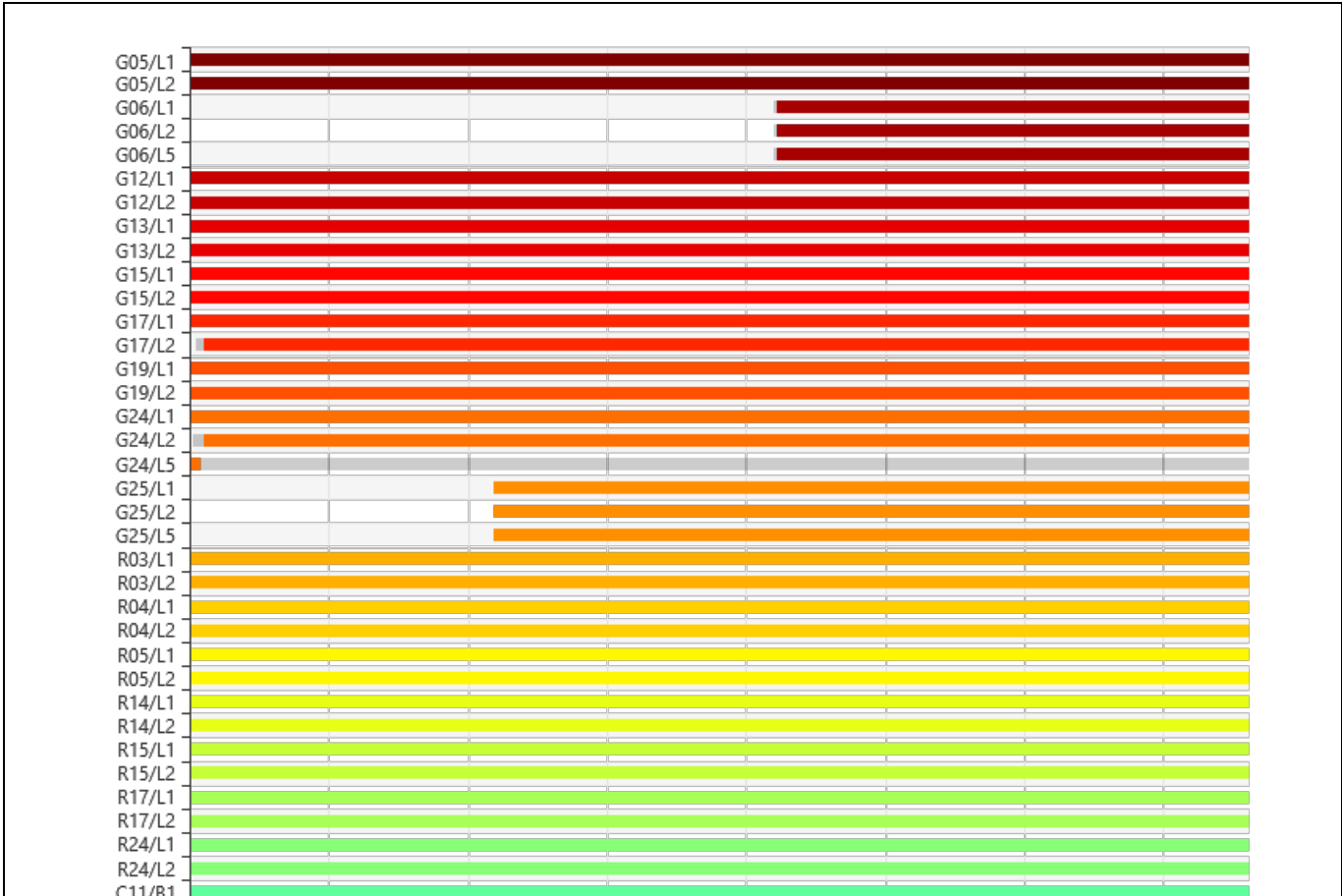
## Satellites

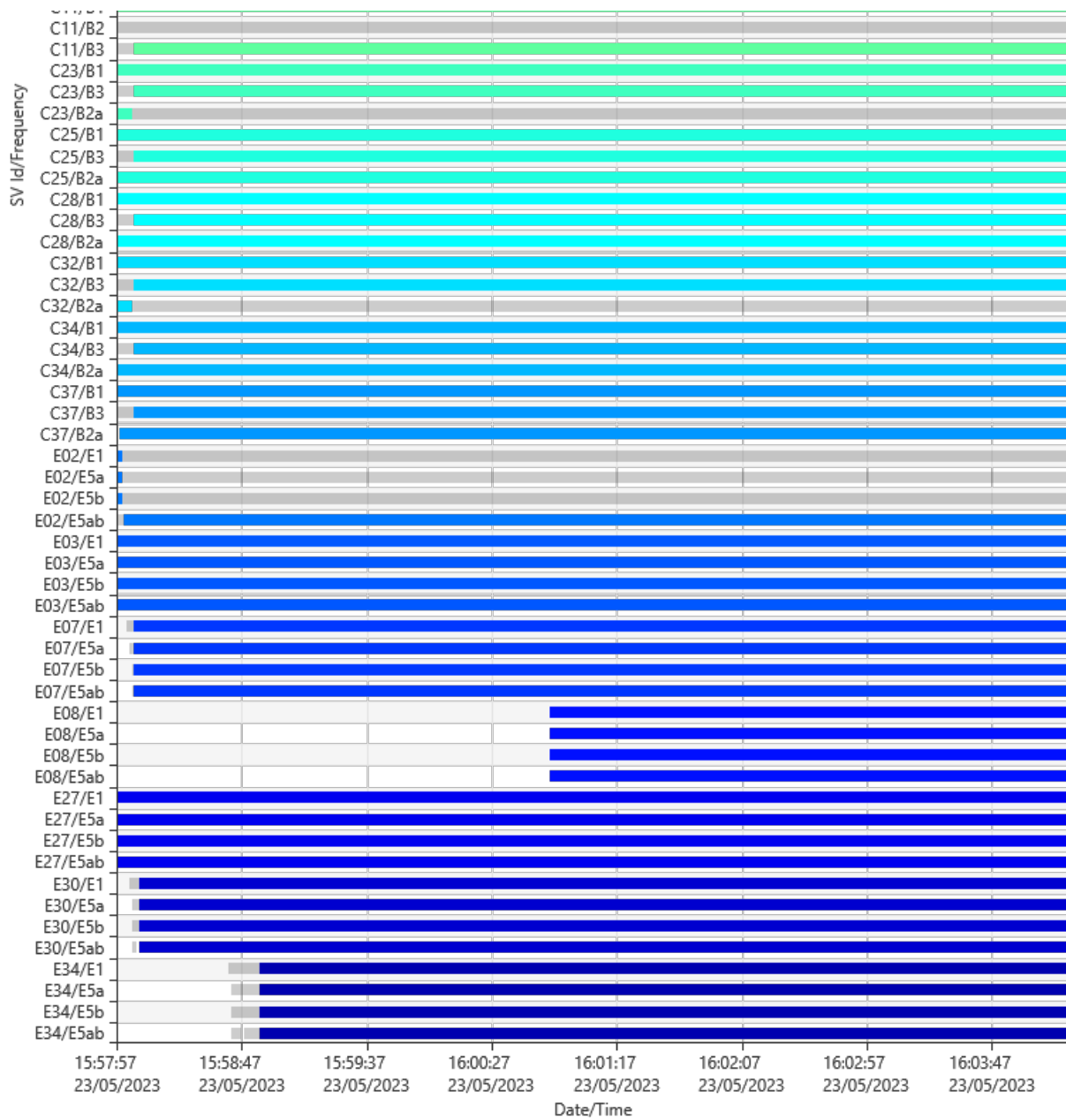
Satellite System	Used	Manually Disabled
GPS	G05 G06 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R03 R04 R05 R14 R15 R17 R24	-
Beidou	C11 C23 C25 C28 C32 C34 C37	-
Galileo	E02 E03 E07 E08 E27 E30 E34	-

## SVs Tracked



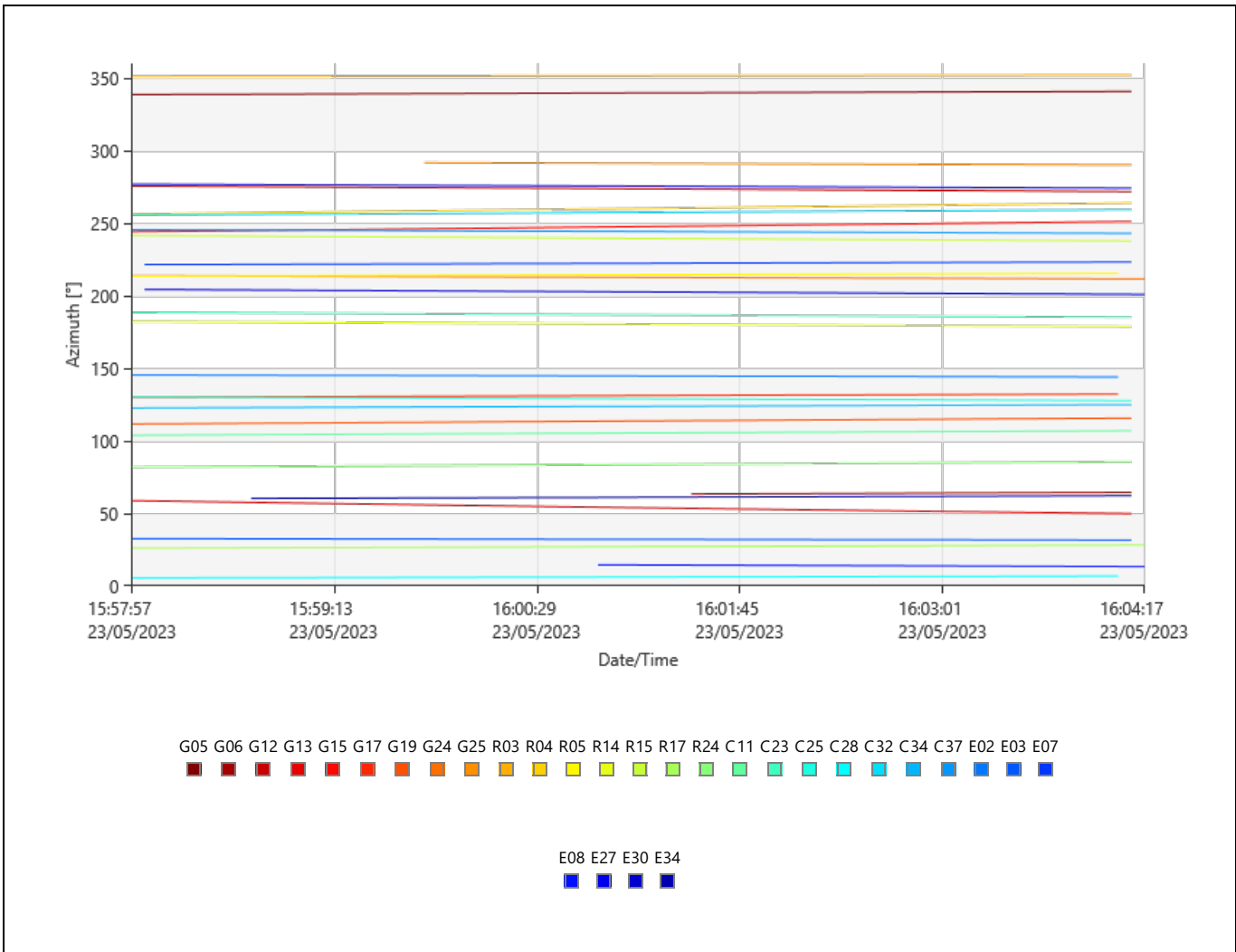
**Signals Tracked**



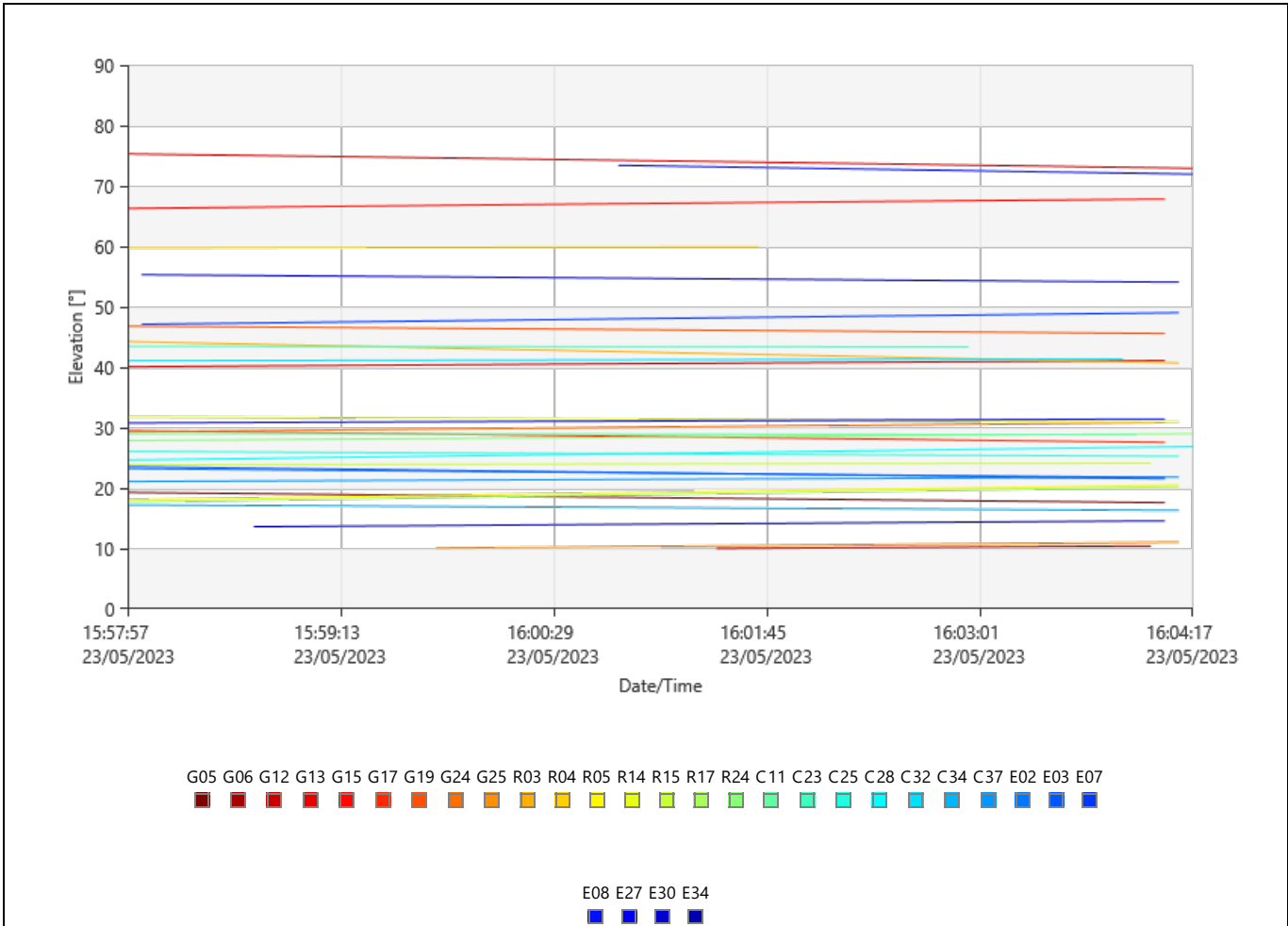


Azimuth





**Elevation**





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 15:57:57	23/05/2023 16:04:18	00:06:21

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:01:27	No Data
	23/05/2023 16:01:27	23/05/2023 16:01:28	Rejected
	23/05/2023 16:01:28	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:01:27	No Data
	23/05/2023 16:01:27	23/05/2023 16:01:28	Rejected
	23/05/2023 16:01:28	23/05/2023 16:04:18	Used
L5	23/05/2023 15:57:57	23/05/2023 16:01:27	No Data
	23/05/2023 16:01:27	23/05/2023 16:01:28	Rejected
	23/05/2023 16:01:28	23/05/2023 16:04:18	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

### G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
	23/05/2023 15:57:57	23/05/2023 15:57:59	No Data

L2	23/05/2023 15:57:57	23/05/2023 15:58:01	No Data
	23/05/2023 15:57:59	23/05/2023 15:58:01	Rejected
	23/05/2023 15:58:01	23/05/2023 15:58:02	Rejected
	23/05/2023 15:58:02	23/05/2023 16:04:18	Used
	23/05/2023 15:58:01	23/05/2023 16:04:18	No Data

G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 15:57:58	No Data
	23/05/2023 15:57:57	23/05/2023 15:58:01	No Data
	23/05/2023 15:57:58	23/05/2023 15:58:01	Rejected
	23/05/2023 15:58:01	23/05/2023 15:58:02	Rejected
	23/05/2023 15:58:02	23/05/2023 16:04:18	Used
L5	23/05/2023 15:57:57	23/05/2023 15:58:01	Used
	23/05/2023 15:58:01	23/05/2023 16:04:18	Rejected

G25

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 15:59:46	No Data
	23/05/2023 15:59:46	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 15:59:46	No Data
	23/05/2023 15:59:46	23/05/2023 16:04:18	Used
L5	23/05/2023 15:57:57	23/05/2023 15:59:46	No Data
	23/05/2023 15:59:46	23/05/2023 16:04:18	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
L2	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

## E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:57:57	23/05/2023 15:57:59	Used
	<b>23/05/2023 15:57:59</b>	<b>23/05/2023 16:04:18</b>	<b>Rejected</b>
E5a	23/05/2023 15:57:57	23/05/2023 15:57:59	Used
	<b>23/05/2023 15:57:59</b>	<b>23/05/2023 16:04:18</b>	<b>Rejected</b>
E5b	23/05/2023 15:57:57	23/05/2023 15:57:59	Used
	<b>23/05/2023 15:57:59</b>	<b>23/05/2023 16:04:18</b>	<b>Rejected</b>
E5ab	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:00</b>	<b>Rejected</b>
	23/05/2023 15:58:00	23/05/2023 16:04:18	Used

## E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5a	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5b	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5ab	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

## E07

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:01</b>	<b>No Data</b>
	<b>23/05/2023 15:58:01</b>	<b>23/05/2023 15:58:04</b>	<b>Rejected</b>
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
E5a	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:02</b>	<b>No Data</b>
	<b>23/05/2023 15:58:02</b>	<b>23/05/2023 15:58:04</b>	<b>Rejected</b>
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
E5b	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:03</b>	<b>No Data</b>
	<b>23/05/2023 15:58:03</b>	<b>23/05/2023 15:58:04</b>	<b>Rejected</b>
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
E5ab	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:03</b>	<b>No Data</b>
	<b>23/05/2023 15:58:03</b>	<b>23/05/2023 15:58:04</b>	<b>Rejected</b>
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used

## E08

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 16:00:50</b>	<b>No Data</b>
	23/05/2023 16:00:50	23/05/2023 16:04:18	Used
E5a	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 16:00:50</b>	<b>No Data</b>
	23/05/2023 16:00:50	23/05/2023 16:04:18	Used
E5b	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 16:00:50</b>	<b>No Data</b>
	23/05/2023 16:00:50	23/05/2023 16:04:18	Used
E5ab	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 16:00:50</b>	<b>No Data</b>
	23/05/2023 16:00:50	23/05/2023 16:04:18	Used

## E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5a	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5b	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
E5ab	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

## E30

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:02</b>	<b>No Data</b>
	<b>23/05/2023 15:58:02</b>	<b>23/05/2023 15:58:06</b>	<b>Rejected</b>
	23/05/2023 15:58:06	23/05/2023 16:04:18	Used
E5a	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:03</b>	<b>No Data</b>
	<b>23/05/2023 15:58:03</b>	<b>23/05/2023 15:58:06</b>	<b>Rejected</b>
	23/05/2023 15:58:06	23/05/2023 16:04:18	Used
E5b	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:03</b>	<b>No Data</b>
	<b>23/05/2023 15:58:03</b>	<b>23/05/2023 15:58:06</b>	<b>Rejected</b>
	23/05/2023 15:58:06	23/05/2023 16:04:18	Used
E5ab	<b>23/05/2023 15:57:57</b>	<b>23/05/2023 15:58:03</b>	<b>No Data</b>
	<b>23/05/2023 15:58:03</b>	<b>23/05/2023 15:58:05</b>	<b>Rejected</b>
	<b>23/05/2023 15:58:05</b>	<b>23/05/2023 15:58:06</b>	<b>No Data</b>
	23/05/2023 15:58:06	23/05/2023 16:04:18	Used

## E34

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Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 15:57:57	23/05/2023 15:58:42	No Data
	23/05/2023 15:58:42	23/05/2023 15:58:54	Rejected
	23/05/2023 15:58:54	23/05/2023 16:04:18	Used
E5a	23/05/2023 15:57:57	23/05/2023 15:58:43	No Data
	23/05/2023 15:58:43	23/05/2023 15:58:54	Rejected
	23/05/2023 15:58:54	23/05/2023 16:04:18	Used
E5b	23/05/2023 15:57:57	23/05/2023 15:58:43	No Data
	23/05/2023 15:58:43	23/05/2023 15:58:54	Rejected
	23/05/2023 15:58:54	23/05/2023 16:04:18	Used
E5ab	23/05/2023 15:57:57	23/05/2023 15:58:43	No Data
	23/05/2023 15:58:43	23/05/2023 15:58:47	Rejected
	23/05/2023 15:58:47	23/05/2023 15:58:48	No Data
	23/05/2023 15:58:48	23/05/2023 15:58:54	Rejected
	23/05/2023 15:58:54	23/05/2023 16:04:18	Used

C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B2	23/05/2023 15:57:57	23/05/2023 16:04:18	Rejected
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 15:58:03	Used
	23/05/2023 15:58:03	23/05/2023 16:04:18	Rejected

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

C32

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 15:58:03	Used
	23/05/2023 15:58:03	23/05/2023 16:04:18	Rejected

C34

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 16:04:18	Used

C37

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 15:57:57	23/05/2023 16:04:18	Used
B3	23/05/2023 15:57:57	23/05/2023 15:58:04	Rejected
	23/05/2023 15:58:04	23/05/2023 16:04:18	Used
B2a	23/05/2023 15:57:57	23/05/2023 15:57:58	No Data
	23/05/2023 15:57:58	23/05/2023 16:04:18	Used

## Cycle Slips

Slip Count: 14

SV	Frequency	Epoch	Slip Value	Flag
G25	L2	23/05/2023 15:59:40	-	RIA
E07	E1	23/05/2023 15:58:04	-	RIA
	E5a	23/05/2023 15:58:04	-	RIA
E30	E1	23/05/2023 15:58:06	-	RIA
	E5a	23/05/2023 15:58:06	-	RIA
	E5b	23/05/2023 15:58:06	-	RIA
	E5ab	23/05/2023 15:58:06	-	RIA
E34	E1	23/05/2023 15:58:54	-	RIA
	E5a	23/05/2023 15:58:54	-	RIA
	E5b	23/05/2023 15:58:54	-	RIA
	E5ab	23/05/2023 15:58:48	-	RIA
		23/05/2023 15:58:50	-	RIA
23/05/2023 15:58:54		-	RIA	
E02	E5ab	23/05/2023 15:58:00	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-8B

### Processing Parameters (23/05/2023 16:14:30 - 23/05/2023 16:21:16)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-8B

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### Acquisition

Start Time - End Time: 23/05/2023 16:14:30 - 23/05/2023 16:21:16  
Duration: 00:06:46

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-8B
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-8B	Reference - MOQ01058	Rover - PAF-CU2-8B
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 11.87977" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 44' 31.09854" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,534.064 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,013,035.011 m		3,493.028 m
WGS84 Cartesian Y:	-	-5,761,853.071 m		
WGS84 Cartesian Z:	-	-1,857,745.485 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 55.61075"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 59.40810"	SD ΔLongitude:	0.000 m
ΔHeight:	-404.847 m	SD ΔHeight:	0.000 m
ΔX:	-3,628.621 m	SD ΔX:	0.000 m
ΔY:	-328.143 m	SD ΔY:	0.000 m
ΔZ:	-1,517.011 m	SD ΔZ:	0.000 m
Slope Dist.:	3,946.630 m	SD Slope Dist.:	0.000 m

M0:	0.390 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000012	CQ 3D:	0.000 m
Q22:	0.00000030		
Q13:	-0.00000004		
Q23:	0.00000008		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.5 - 1.9	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	1.0 - 1.1	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.4 - 0.5	Beidou SVs:	7/7
		VDOP:	0.8 - 1.0	Galileo SVs:	8/8
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

## Processing Info (23/05/2023 16:14:30 - 23/05/2023 16:21:16)

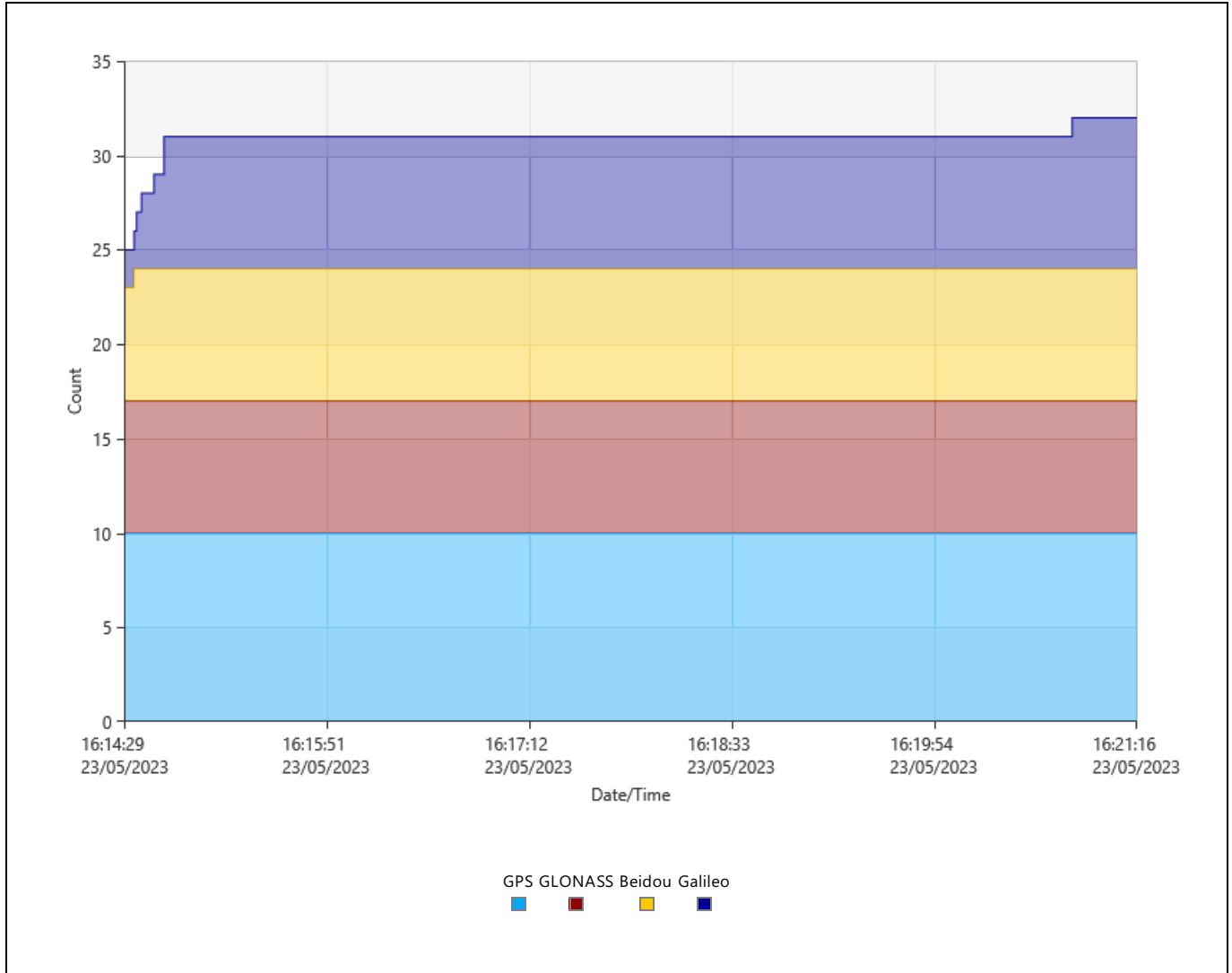
Processed Date/Time: 09/06/2023 17:54:21



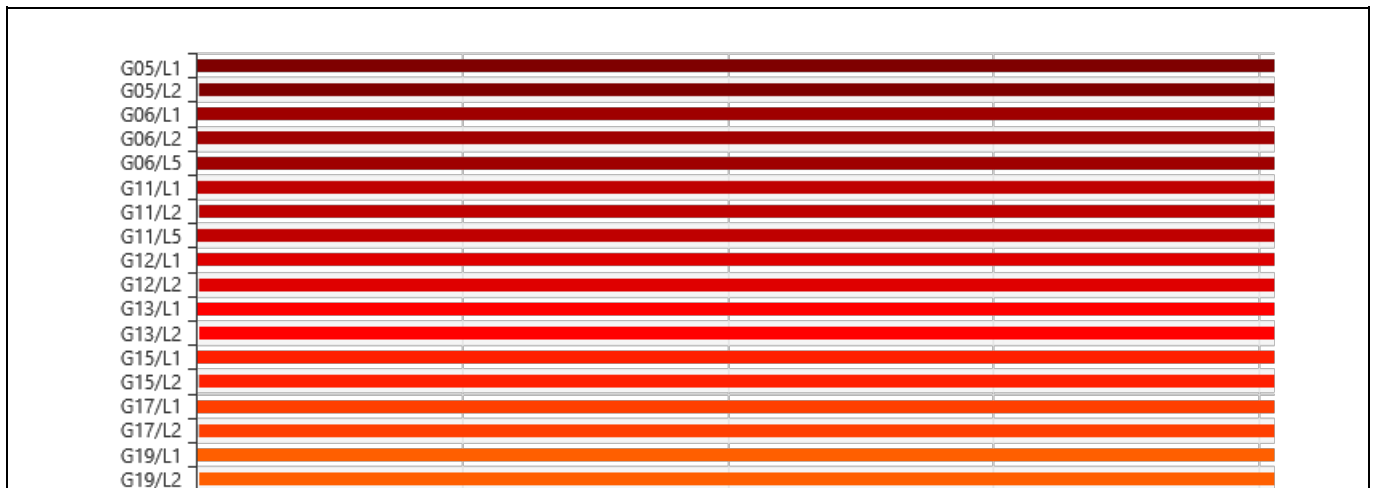
## Satellites

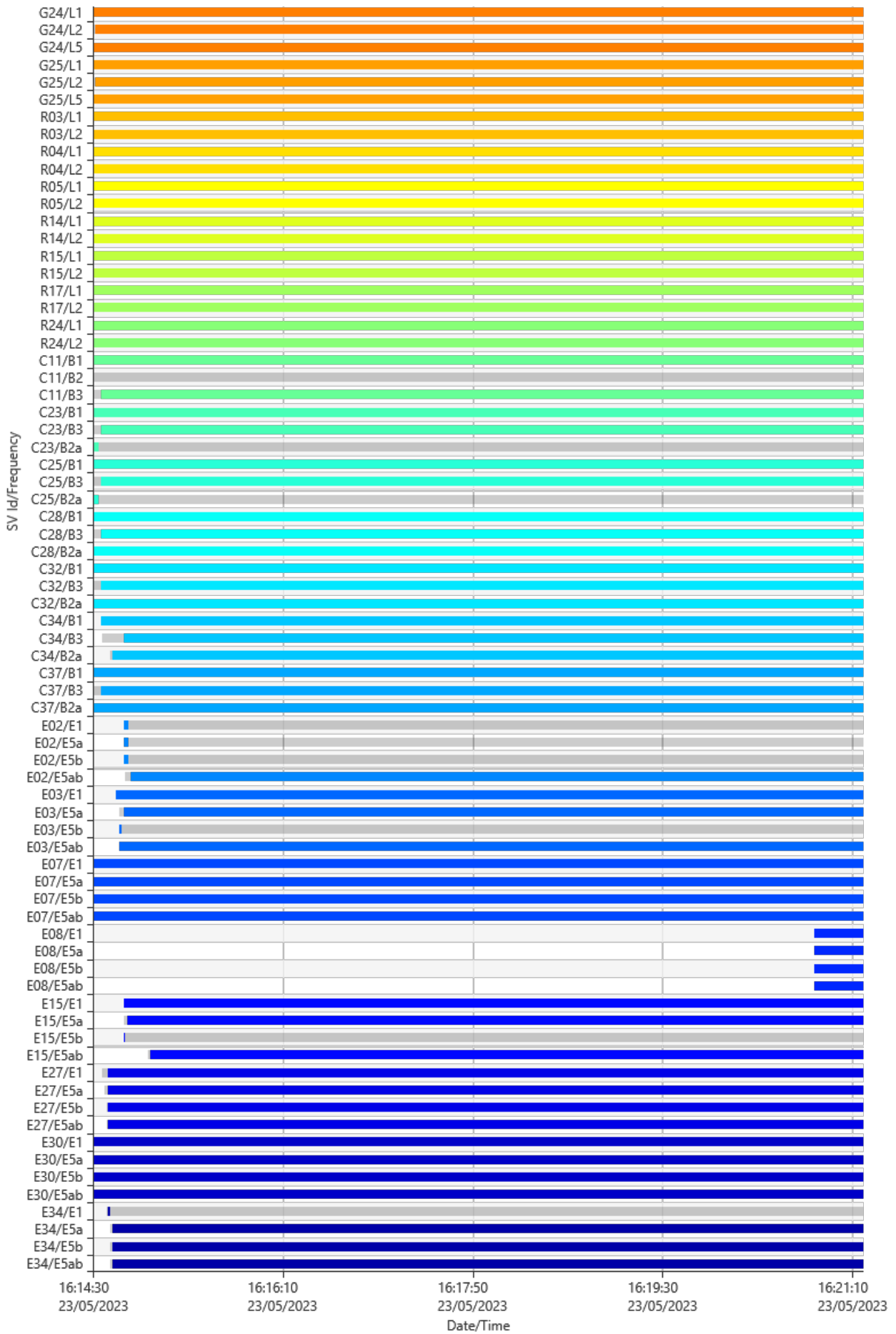
Satellite System	Used	Manually Disabled
GPS	G05 G06 G11 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R03 R04 R05 R14 R15 R17 R24	-
Beidou	C11 C23 C25 C28 C32 C34 C37	-
Galileo	E02 E03 E07 E08 E15 E27 E30 E34	-

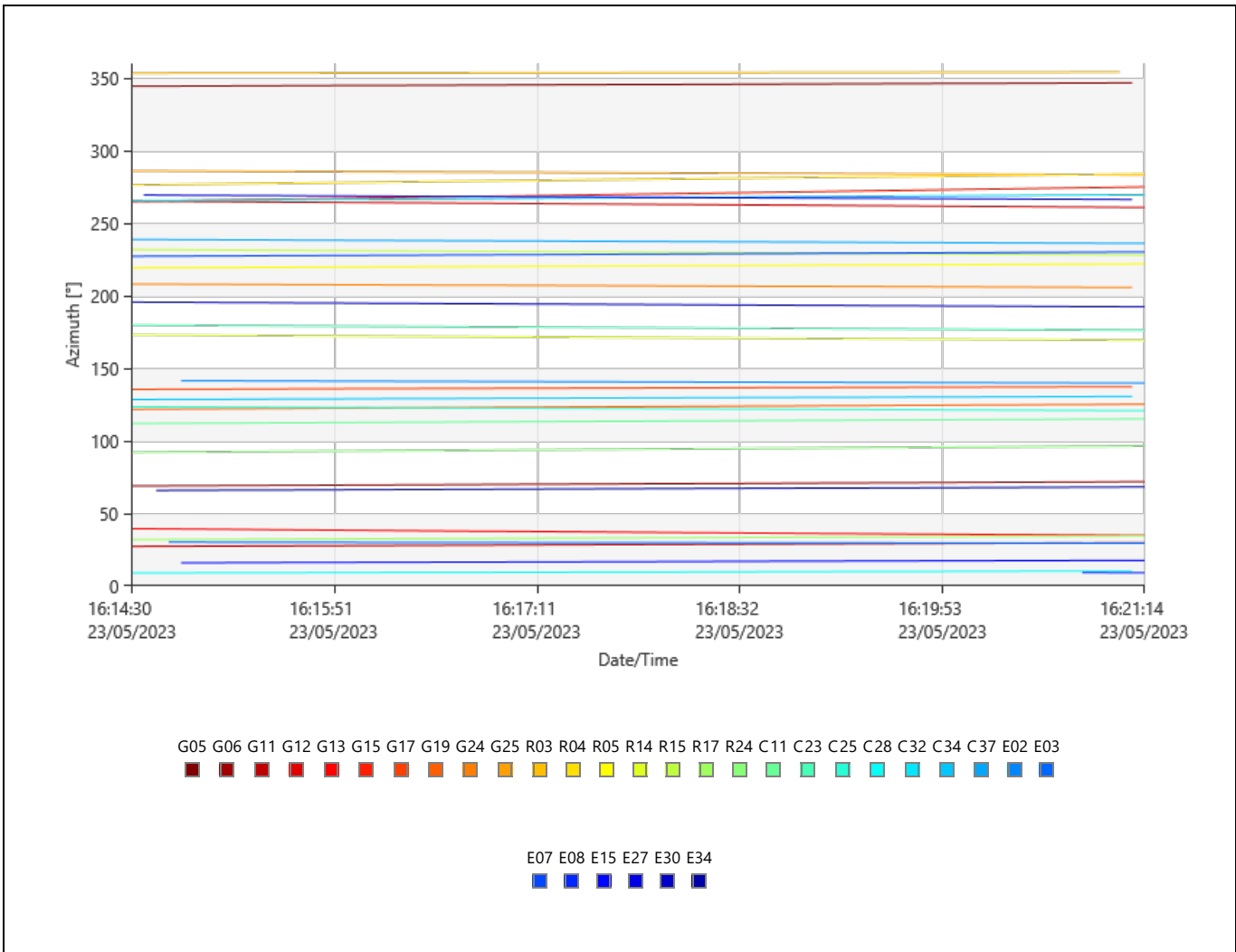
## SVs Tracked



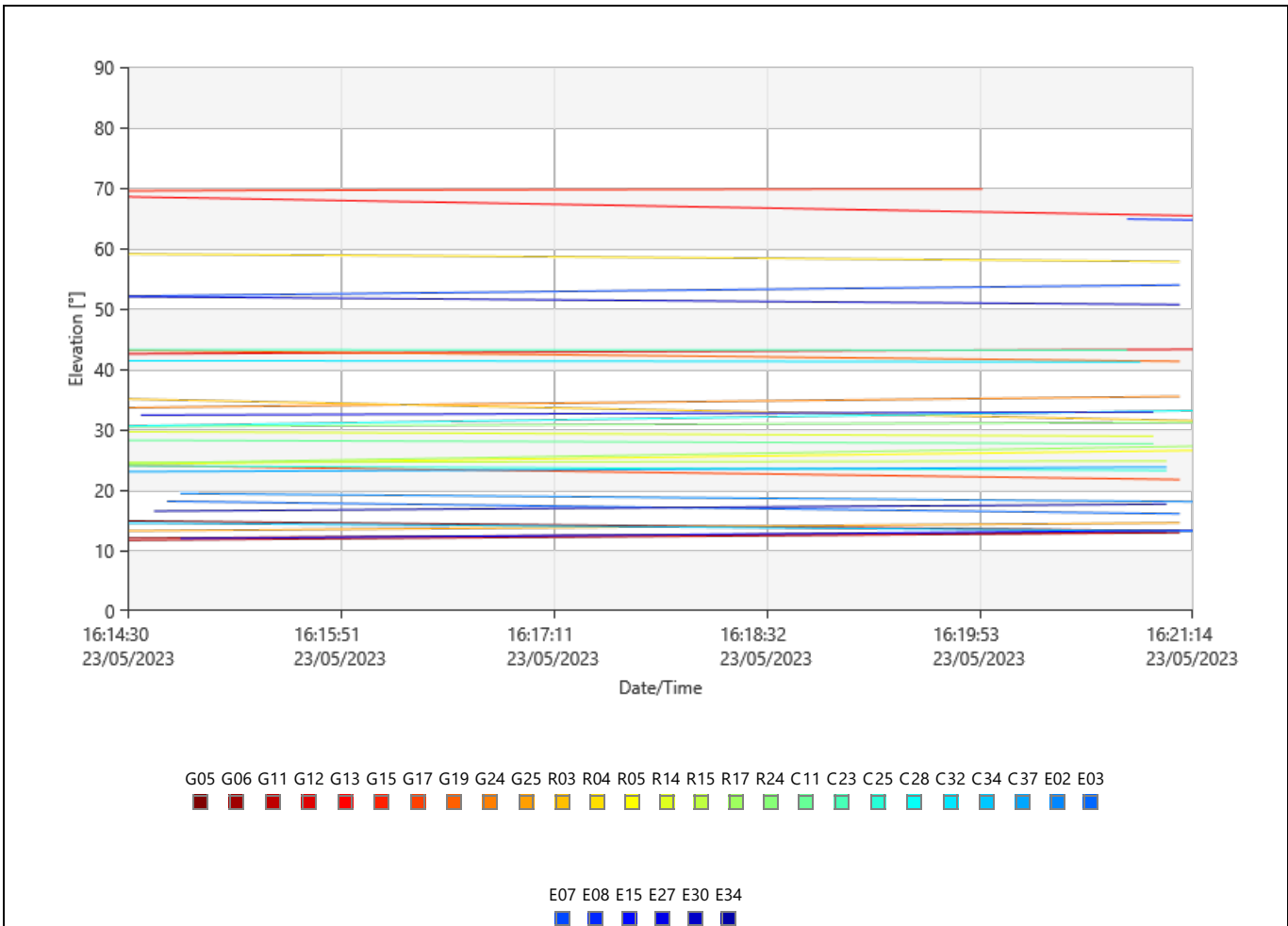
## Signals Tracked







**Elevation**





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 16:14:30	23/05/2023 16:21:16	00:06:46

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>No Data</b>
	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>Rejected</b>
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	<b>23/05/2023 16:14:31</b>	<b>23/05/2023 16:21:16</b>	<b>No Data</b>

### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L5	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>No Data</b>
	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>Rejected</b>
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	<b>23/05/2023 16:14:31</b>	<b>23/05/2023 16:21:16</b>	<b>No Data</b>
L5	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>No Data</b>
	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>Rejected</b>
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	<b>23/05/2023 16:14:31</b>	<b>23/05/2023 16:21:16</b>	<b>No Data</b>

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	<b>23/05/2023 16:14:30</b>	<b>23/05/2023 16:14:31</b>	<b>No Data</b>
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used

## G15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:14:31	No Data
	23/05/2023 16:14:30	23/05/2023 16:14:31	Rejected
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	23/05/2023 16:14:31	23/05/2023 16:21:16	No Data

## G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:14:31	No Data
	23/05/2023 16:14:30	23/05/2023 16:14:31	Rejected
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	23/05/2023 16:14:31	23/05/2023 16:21:16	No Data

## G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:14:31	No Data
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used

## G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:14:31	No Data
	23/05/2023 16:14:30	23/05/2023 16:14:31	Rejected
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	23/05/2023 16:14:31	23/05/2023 16:21:16	No Data
L5	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## G25

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:14:31	No Data
	23/05/2023 16:14:30	23/05/2023 16:14:31	Rejected
	23/05/2023 16:14:31	23/05/2023 16:21:16	Used
	23/05/2023 16:14:31	23/05/2023 16:21:16	No Data
L5	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

## R17

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Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
L2	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:14:49	Used
	23/05/2023 16:14:49	23/05/2023 16:21:16	Rejected
E5a	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:14:49	Used
	23/05/2023 16:14:49	23/05/2023 16:21:16	Rejected
E5b	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:14:49	Used
	23/05/2023 16:14:49	23/05/2023 16:21:16	Rejected
E5ab	23/05/2023 16:14:30	23/05/2023 16:14:47	No Data
	23/05/2023 16:14:47	23/05/2023 16:14:50	Rejected
	23/05/2023 16:14:50	23/05/2023 16:21:16	Used

E03

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:14:42	No Data
	23/05/2023 16:14:42	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:14:44	No Data
	23/05/2023 16:14:44	23/05/2023 16:14:46	Rejected
	23/05/2023 16:14:46	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:14:44	No Data
	23/05/2023 16:14:44	23/05/2023 16:14:45	Used
	23/05/2023 16:14:45	23/05/2023 16:21:16	Rejected
E5ab	23/05/2023 16:14:30	23/05/2023 16:14:44	No Data
	23/05/2023 16:14:44	23/05/2023 16:21:16	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5ab	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:20:50	No Data
	23/05/2023 16:20:50	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:20:50	No Data
	23/05/2023 16:20:50	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:20:50	No Data
	23/05/2023 16:20:50	23/05/2023 16:21:16	Used
E5ab	23/05/2023 16:14:30	23/05/2023 16:20:50	No Data
	23/05/2023 16:20:50	23/05/2023 16:21:16	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:14:48	Rejected
	23/05/2023 16:14:48	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:14:46	No Data
	23/05/2023 16:14:46	23/05/2023 16:14:47	Used
	23/05/2023 16:14:47	23/05/2023 16:21:16	Rejected
E5ab	23/05/2023 16:14:30	23/05/2023 16:14:59	No Data
	23/05/2023 16:14:59	23/05/2023 16:15:00	Rejected
	23/05/2023 16:15:00	23/05/2023 16:21:16	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:14:35	No Data
	23/05/2023 16:14:35	23/05/2023 16:14:38	Rejected
	23/05/2023 16:14:38	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:14:36	No Data
	23/05/2023 16:14:36	23/05/2023 16:14:38	Rejected
	23/05/2023 16:14:38	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:14:37	No Data
	23/05/2023 16:14:37	23/05/2023 16:14:38	Rejected
	23/05/2023 16:14:38	23/05/2023 16:21:16	Used
E5ab	23/05/2023 16:14:30	23/05/2023 16:14:37	No Data
	23/05/2023 16:14:37	23/05/2023 16:14:38	Rejected
	23/05/2023 16:14:38	23/05/2023 16:21:16	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5a	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5b	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
E5ab	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

E34

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:14:30	23/05/2023 16:14:37	No Data
	23/05/2023 16:14:37	23/05/2023 16:14:38	Rejected
	23/05/2023 16:14:38	23/05/2023 16:14:39	Used
E5a	23/05/2023 16:14:39	23/05/2023 16:21:16	Rejected
	23/05/2023 16:14:30	23/05/2023 16:14:39	No Data
	23/05/2023 16:14:39	23/05/2023 16:14:40	Rejected
E5b	23/05/2023 16:14:40	23/05/2023 16:21:16	Used
	23/05/2023 16:14:30	23/05/2023 16:14:39	No Data
	23/05/2023 16:14:39	23/05/2023 16:14:40	Rejected
E5ab	23/05/2023 16:14:40	23/05/2023 16:21:16	Used
	23/05/2023 16:14:30	23/05/2023 16:14:39	No Data
	23/05/2023 16:14:39	23/05/2023 16:14:40	Rejected

C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B2	23/05/2023 16:14:30	23/05/2023 16:21:16	Rejected
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:14:33	Used
	23/05/2023 16:14:33	23/05/2023 16:21:16	Rejected

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:14:33	Used
	23/05/2023 16:14:33	23/05/2023 16:21:16	Rejected

C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:21:16	Used



C32

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

C34

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:14:34	No Data
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:35	No Data
	23/05/2023 16:14:35	23/05/2023 16:14:46	Rejected
	23/05/2023 16:14:46	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:14:39	No Data
	23/05/2023 16:14:39	23/05/2023 16:14:40	Rejected
	23/05/2023 16:14:40	23/05/2023 16:21:16	Used

C37

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:14:30	23/05/2023 16:21:16	Used
B3	23/05/2023 16:14:30	23/05/2023 16:14:34	Rejected
	23/05/2023 16:14:34	23/05/2023 16:21:16	Used
B2a	23/05/2023 16:14:30	23/05/2023 16:21:16	Used

Cycle Slips

Slip Count: 5

SV	Frequency	Epoch	Slip Value	Flag
E27	E1	23/05/2023 16:14:38	-	RIA
	E5a	23/05/2023 16:14:38	-	RIA
E03	E5a	23/05/2023 16:14:46	-	RIA
E15	E5a	23/05/2023 16:14:48	-	RIA
E02	E5ab	23/05/2023 16:14:50	-	RIA

UCS: Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

RIA: Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

Flagged: The cycle slip was flagged in the data.

Processing Messages

Warning

Missing orbits for satellite R23.

Baseline MOQ01058 - PAF-CU2-11A

Processing Parameters (23/05/2023 16:16:57 - 23/05/2023 16:27:37)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Iono Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

### Time Settings

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-11A

### Acquisition

Start Time - End Time: 23/05/2023 16:16:57 - 23/05/2023 16:27:37  
Duration: 00:10:40

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-11A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	-	0.000 m
Height Reading:	1.405 m	2.000 m
Antenna Height:	1.405 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-11A	Reference - MOQ01058	Rover - PAF-CU2-11A
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 32.29413" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 45' 00.82925" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,477.943 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,012,126.133 m		3,437.042 m
WGS84 Cartesian Y:	-	-5,761,918.799 m		
WGS84 Cartesian Z:	-	-1,858,329.394 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 16.02512"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 29.13880"	SD ΔLongitude:	0.000 m
ΔHeight:	-460.968 m	SD ΔHeight:	0.000 m
ΔX:	-4,537.499 m	SD ΔX:	0.000 m
ΔY:	-393.870 m	SD ΔY:	0.000 m
ΔZ:	-2,100.919 m	SD ΔZ:	0.000 m
Slope Dist.:	5,015.764 m	SD Slope Dist.:	0.000 m

M0:	0.378 m	CQ 1D:	0.000 m
Q11:	0.00000007	CQ 2D:	0.000 m
Q12:	-0.00000007	CQ 3D:	0.000 m
Q22:	0.00000018		

Q13: -0.00000003  
 Q23: 0.00000006  
 Q33: 0.00000007

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.6 - 2.1	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	1.0 - 1.2	GLONASS SVs:	7/7
Solution Type:	Phase Fixed	HDOP:	0.4 - 0.5	Beidou SVs:	4/4
		VDOP:	0.9 - 1.1	Galileo SVs:	8/8
				QZSS SVs:	-

Ephemeris Type:  
 GPS: Precise  
 GLONASS: Precise  
 Beidou: Precise  
 Galileo: Precise

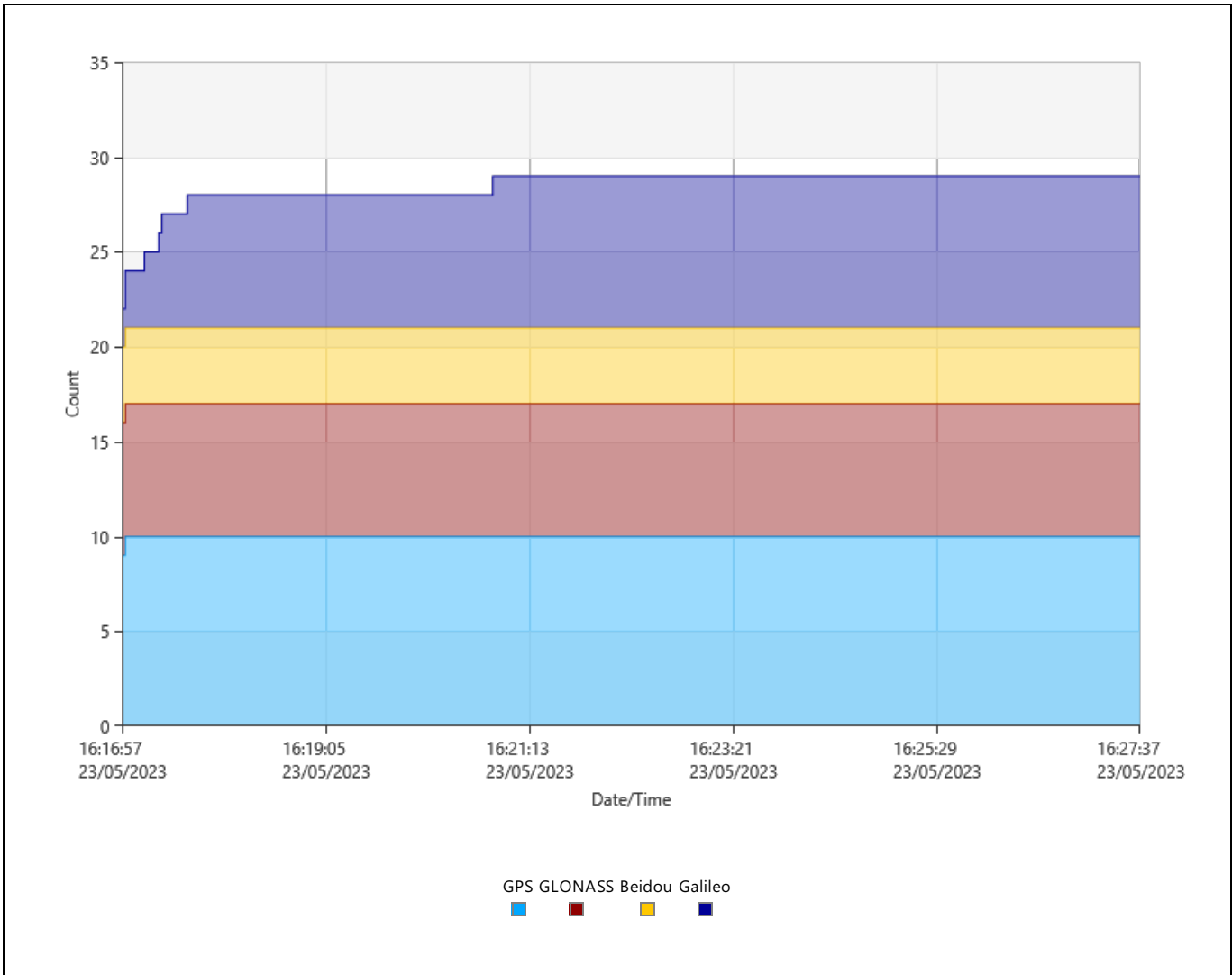
### Processing Info (23/05/2023 16:16:57 - 23/05/2023 16:27:37)

Processed Date/Time: 09/06/2023 17:54:21

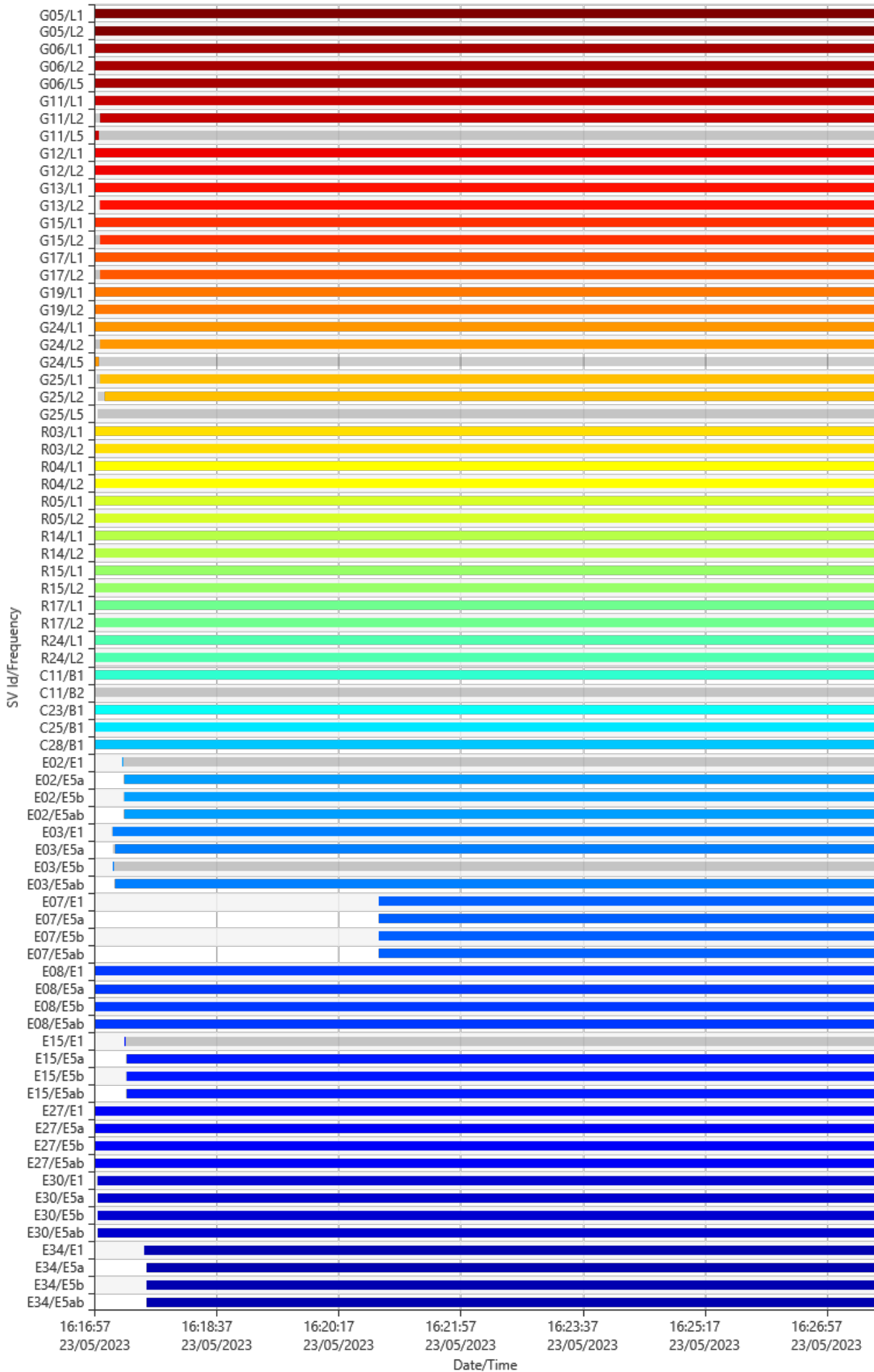
### Satellites

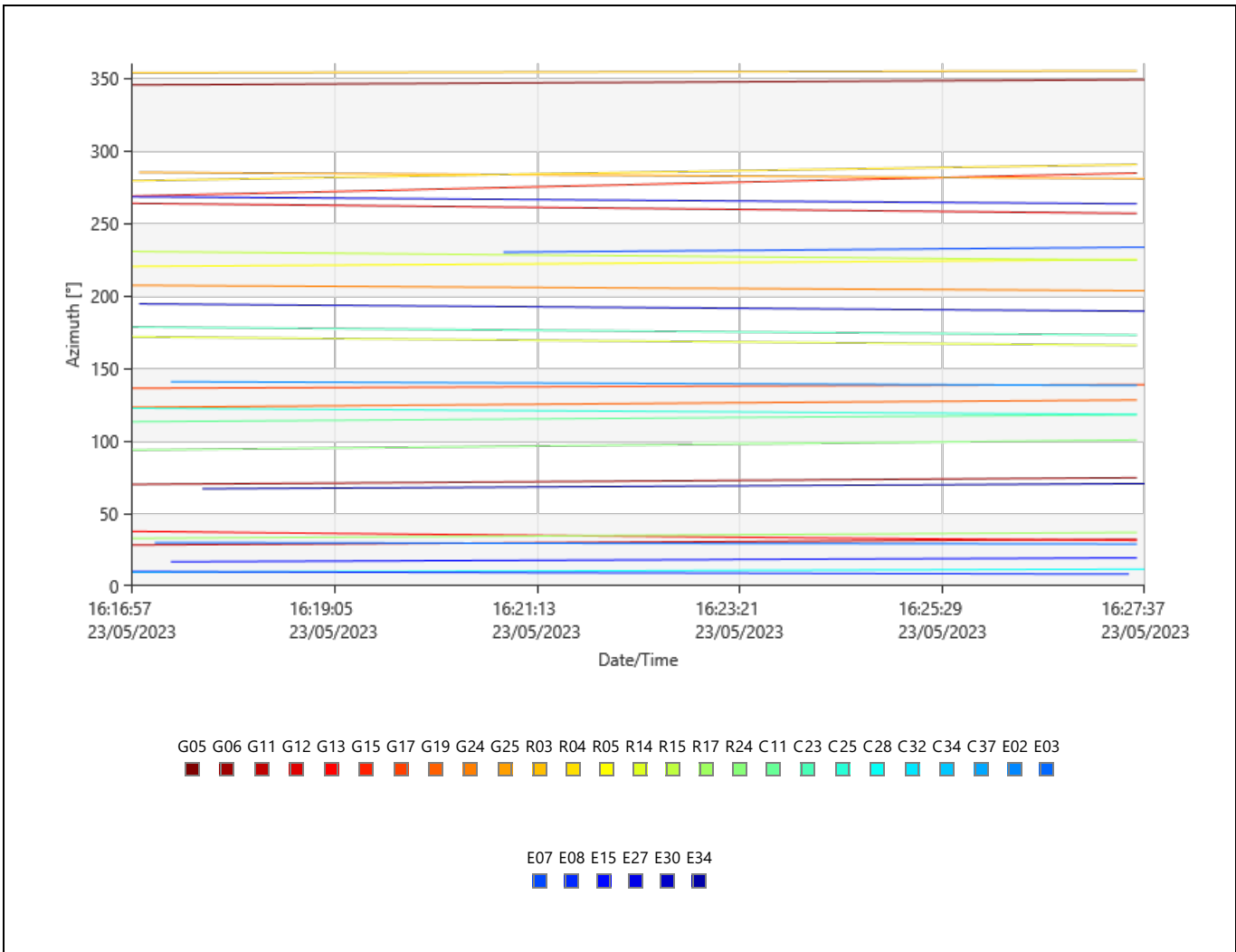
Satellite System	Used	Manually Disabled
GPS	G05 G06 G11 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R03 R04 R05 R14 R15 R17 R24	-
Beidou	C11 C23 C25 C28	-
Galileo	E02 E03 E07 E08 E15 E27 E30 E34	-

### SVs Tracked

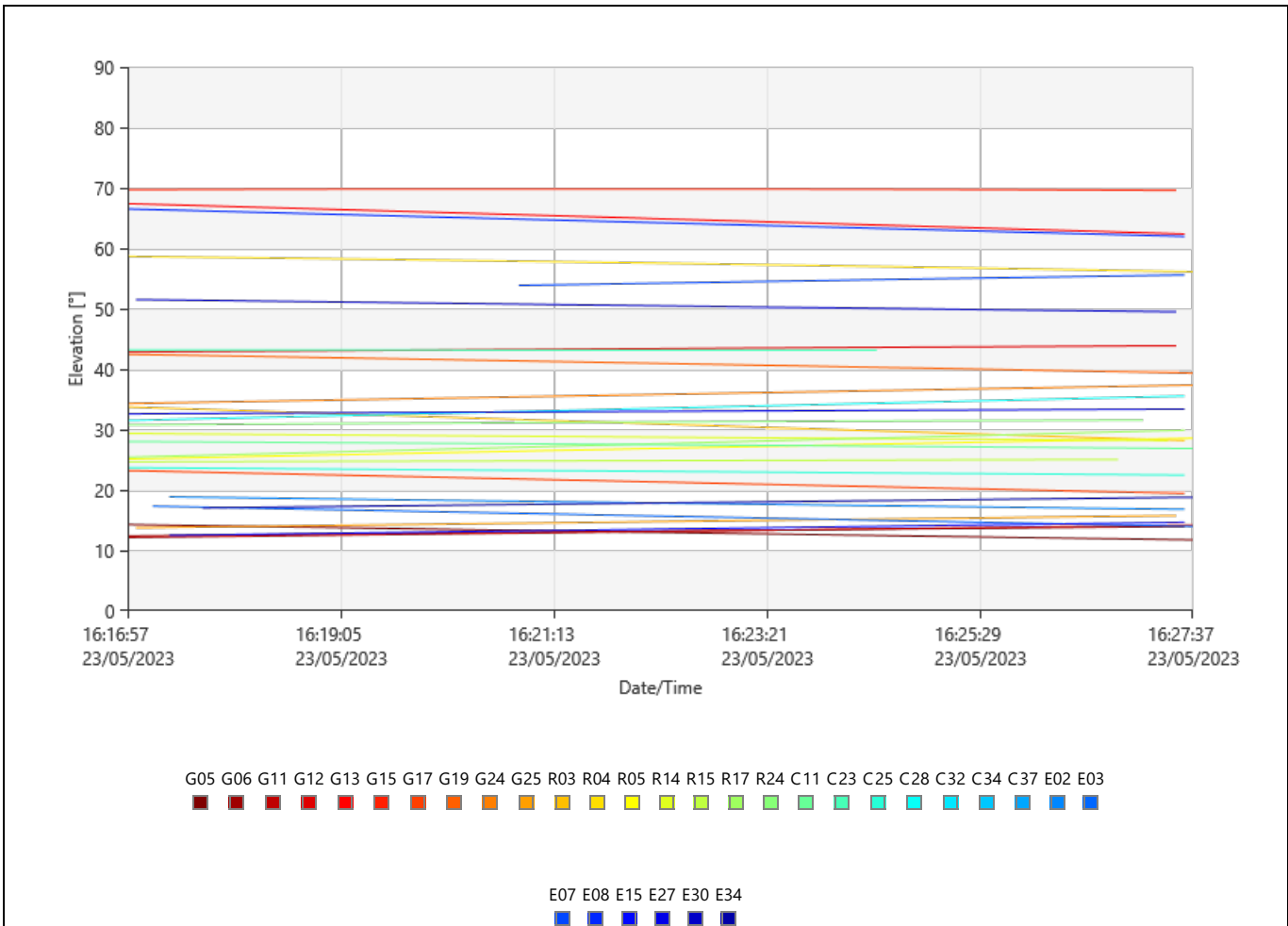


Signals Tracked





**Elevation**





Status	From Epoch	To Epoch	Duration
Fixed	23/05/2023 16:16:57	23/05/2023 16:27:37	00:10:40

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 23/05/2023 11:08:16  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 23/05/2023 17:08:40  
 Origin Date/Time: 23/05/2023 11:08:16

Deg. Latitude	Deg. Time	Value	RMS
0	0	2.7939482294	0.0118975529
0	1	0.7412567509	0.0111211508
0	2	-0.3466662210	0.0032952557
1	0	0.5427648735	0.0070306285
1	1	-0.0163753777	0.0040070951

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

### G06

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L5	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

### G11

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:16:58	Rejected
	23/05/2023 16:16:58	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:17:01	No Data
	23/05/2023 16:16:57	23/05/2023 16:17:01	Rejected
	23/05/2023 16:17:01	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used
L5	23/05/2023 16:17:01	23/05/2023 16:27:37	No Data
	23/05/2023 16:16:57	23/05/2023 16:16:58	Rejected
	23/05/2023 16:16:58	23/05/2023 16:17:01	Used
	23/05/2023 16:17:01	23/05/2023 16:27:37	Rejected

### G12

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:17:01	No Data
	23/05/2023 16:17:01	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used

### G15



Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:16:58	No Data
	23/05/2023 16:16:57	23/05/2023 16:17:01	No Data
	23/05/2023 16:16:58	23/05/2023 16:17:01	Rejected
	23/05/2023 16:17:01	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used
	23/05/2023 16:17:01	23/05/2023 16:27:37	No Data

G17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:17:01	No Data
	23/05/2023 16:16:57	23/05/2023 16:17:01	Rejected
	23/05/2023 16:17:01	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used
	23/05/2023 16:17:01	23/05/2023 16:27:37	No Data

G19

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:16:58	No Data
	23/05/2023 16:16:57	23/05/2023 16:17:01	No Data
	23/05/2023 16:16:58	23/05/2023 16:17:01	Rejected
	23/05/2023 16:17:01	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used
	23/05/2023 16:17:01	23/05/2023 16:27:37	No Data
L5	23/05/2023 16:16:57	23/05/2023 16:17:01	Used
	23/05/2023 16:17:01	23/05/2023 16:27:37	Rejected

G25

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:16:59	No Data
	23/05/2023 16:16:59	23/05/2023 16:17:02	Rejected
	23/05/2023 16:17:02	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:17:00	No Data
	23/05/2023 16:16:57	23/05/2023 16:17:04	No Data
	23/05/2023 16:17:00	23/05/2023 16:17:04	Rejected
	23/05/2023 16:17:04	23/05/2023 16:17:06	Rejected
	23/05/2023 16:17:06	23/05/2023 16:27:37	Used
	23/05/2023 16:17:04	23/05/2023 16:27:37	No Data
L5	23/05/2023 16:16:57	23/05/2023 16:17:00	No Data
	23/05/2023 16:17:00	23/05/2023 16:27:37	Rejected

R03

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

R04

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

R05

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

R14

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

## R15

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

## R17

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

## R24

Frequency	From Epoch	To Epoch	Status
L1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
L2	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

## E02

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:20</b>	<b>No Data</b>
	23/05/2023 16:17:20	23/05/2023 16:17:21	Used
	<b>23/05/2023 16:17:21</b>	<b>23/05/2023 16:27:37</b>	<b>Rejected</b>
E5a	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:21</b>	<b>No Data</b>
	<b>23/05/2023 16:17:21</b>	<b>23/05/2023 16:17:22</b>	<b>Rejected</b>
	23/05/2023 16:17:22	23/05/2023 16:27:37	Used
E5b	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:21</b>	<b>No Data</b>
	<b>23/05/2023 16:17:21</b>	<b>23/05/2023 16:17:22</b>	<b>Rejected</b>
	23/05/2023 16:17:22	23/05/2023 16:27:37	Used
E5ab	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:21</b>	<b>No Data</b>
	<b>23/05/2023 16:17:21</b>	<b>23/05/2023 16:17:22</b>	<b>Rejected</b>
	23/05/2023 16:17:22	23/05/2023 16:27:37	Used

## E03

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:11</b>	<b>No Data</b>
	<b>23/05/2023 16:17:11</b>	<b>23/05/2023 16:17:12</b>	<b>Rejected</b>
	23/05/2023 16:17:12	23/05/2023 16:27:37	Used
E5a	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:12</b>	<b>No Data</b>
	<b>23/05/2023 16:17:12</b>	<b>23/05/2023 16:17:14</b>	<b>Rejected</b>
	23/05/2023 16:17:14	23/05/2023 16:27:37	Used
E5b	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:12</b>	<b>No Data</b>
	23/05/2023 16:17:12	23/05/2023 16:17:13	Used
	<b>23/05/2023 16:17:13</b>	<b>23/05/2023 16:27:37</b>	<b>Rejected</b>
E5ab	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:13</b>	<b>No Data</b>
	<b>23/05/2023 16:17:13</b>	<b>23/05/2023 16:17:14</b>	<b>Rejected</b>
	23/05/2023 16:17:14	23/05/2023 16:27:37	Used

## E07

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:20:50</b>	<b>No Data</b>
	23/05/2023 16:20:50	23/05/2023 16:27:37	Used
E5a	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:20:50</b>	<b>No Data</b>
	23/05/2023 16:20:50	23/05/2023 16:27:37	Used
E5b	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:20:50</b>	<b>No Data</b>
	23/05/2023 16:20:50	23/05/2023 16:27:37	Used
E5ab	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:20:50</b>	<b>No Data</b>
	23/05/2023 16:20:50	23/05/2023 16:27:37	Used

## E08

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5a	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5b	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5ab	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

## E15

Frequency	From Epoch	To Epoch	Status
E1	<b>23/05/2023 16:16:57</b>	<b>23/05/2023 16:17:22</b>	<b>No Data</b>
	23/05/2023 16:17:22	23/05/2023 16:17:23	Used
	<b>23/05/2023 16:17:23</b>	<b>23/05/2023 16:27:37</b>	<b>Rejected</b>

E5a	23/05/2023 16:16:57	23/05/2023 16:17:23	No Data
	23/05/2023 16:17:23	23/05/2023 16:17:24	Rejected
	23/05/2023 16:17:24	23/05/2023 16:27:37	Used
E5b	23/05/2023 16:16:57	23/05/2023 16:17:23	No Data
	23/05/2023 16:17:23	23/05/2023 16:17:24	Rejected
	23/05/2023 16:17:24	23/05/2023 16:27:37	Used
E5ab	23/05/2023 16:16:57	23/05/2023 16:17:23	No Data
	23/05/2023 16:17:23	23/05/2023 16:17:24	Rejected
	23/05/2023 16:17:24	23/05/2023 16:27:37	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5a	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5b	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
E5ab	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:16:57	23/05/2023 16:16:59	No Data
	23/05/2023 16:16:59	23/05/2023 16:17:00	Rejected
	23/05/2023 16:17:00	23/05/2023 16:27:37	Used
E5a	23/05/2023 16:16:57	23/05/2023 16:17:00	No Data
	23/05/2023 16:17:00	23/05/2023 16:27:37	Used
E5b	23/05/2023 16:16:57	23/05/2023 16:17:00	No Data
	23/05/2023 16:17:00	23/05/2023 16:27:37	Used
E5ab	23/05/2023 16:16:57	23/05/2023 16:17:00	No Data
	23/05/2023 16:17:00	23/05/2023 16:27:37	Used

E34

Frequency	From Epoch	To Epoch	Status
E1	23/05/2023 16:16:57	23/05/2023 16:17:38	No Data
	23/05/2023 16:17:38	23/05/2023 16:27:37	Used
E5a	23/05/2023 16:16:57	23/05/2023 16:17:40	No Data
	23/05/2023 16:17:40	23/05/2023 16:27:37	Used
E5b	23/05/2023 16:16:57	23/05/2023 16:17:40	No Data
	23/05/2023 16:17:40	23/05/2023 16:27:37	Used
E5ab	23/05/2023 16:16:57	23/05/2023 16:17:40	No Data
	23/05/2023 16:17:40	23/05/2023 16:27:37	Used

C11

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used
B2	23/05/2023 16:16:57	23/05/2023 16:27:37	Rejected

C23

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	23/05/2023 16:16:57	23/05/2023 16:27:37	Used

Cycle Slips

Slip Count: 5

SV	Frequency	Epoch	Slip Value	Flag
G11	L1	23/05/2023 16:16:58	-	RIA
	L2	23/05/2023 16:16:58	-	RIA
	L5	23/05/2023 16:16:58	-	RIA
G25	L2	23/05/2023 16:17:06	-	RIA
E03	E5a	23/05/2023 16:17:14	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.  
**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.  
**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-1C

### Processing Parameters (26/05/2023 14:41:30 - 26/05/2023 14:48:26)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-1C

---

### Acquisition

Start Time - End Time:	26/05/2023 14:41:30 - 26/05/2023 14:48:26
Duration:	00:06:56

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-1C
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m

Up	0.100 m	0.107 m	0.100 m	0.107 m
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GLONASS	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-1C		Reference - MOQ01058	Rover - PAF-CU2-1C
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 38.34744" S	Easting:	318,107.441 m	315,272.842 m
WGS84 Longitude:	-	70° 44' 08.84514" W	Northing:	8,117,307.121 m	8,112,914.190 m
WGS84 Ellip. Height:	-	3,809.433 m	Ortho. Height:	3,897.429 m	3,768.536 m
WGS84 Cartesian X:	-	2,013,486.222 m			
WGS84 Cartesian Y:	-	-5,761,148.267 m			
WGS84 Cartesian Z:	-	-1,860,369.036 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 22.07843"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 37.15469"	SD ΔLongitude:	0.000 m
ΔHeight:	-129.478 m	SD ΔHeight:	0.000 m
ΔX:	-3,177.410 m	SD ΔX:	0.000 m
ΔY:	376.662 m	SD ΔY:	0.000 m
ΔZ:	-4,140.562 m	SD ΔZ:	0.000 m
Slope Dist.:	5,232.787 m	SD Slope Dist.:	0.000 m

M0:	0.475 m	CQ 1D:	0.000 m
Q11:	0.00000013	CQ 2D:	0.000 m
Q12:	-0.00000024	CQ 3D:	0.001 m
Q22:	0.00000097		
Q13:	-0.00000003		
Q23:	0.00000013		
Q33:	0.00000010		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.4 - 3.8	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.5 - 2.1	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	4/4
		VDOP:	1.3 - 2.0	Galileo SVs:	4/4
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

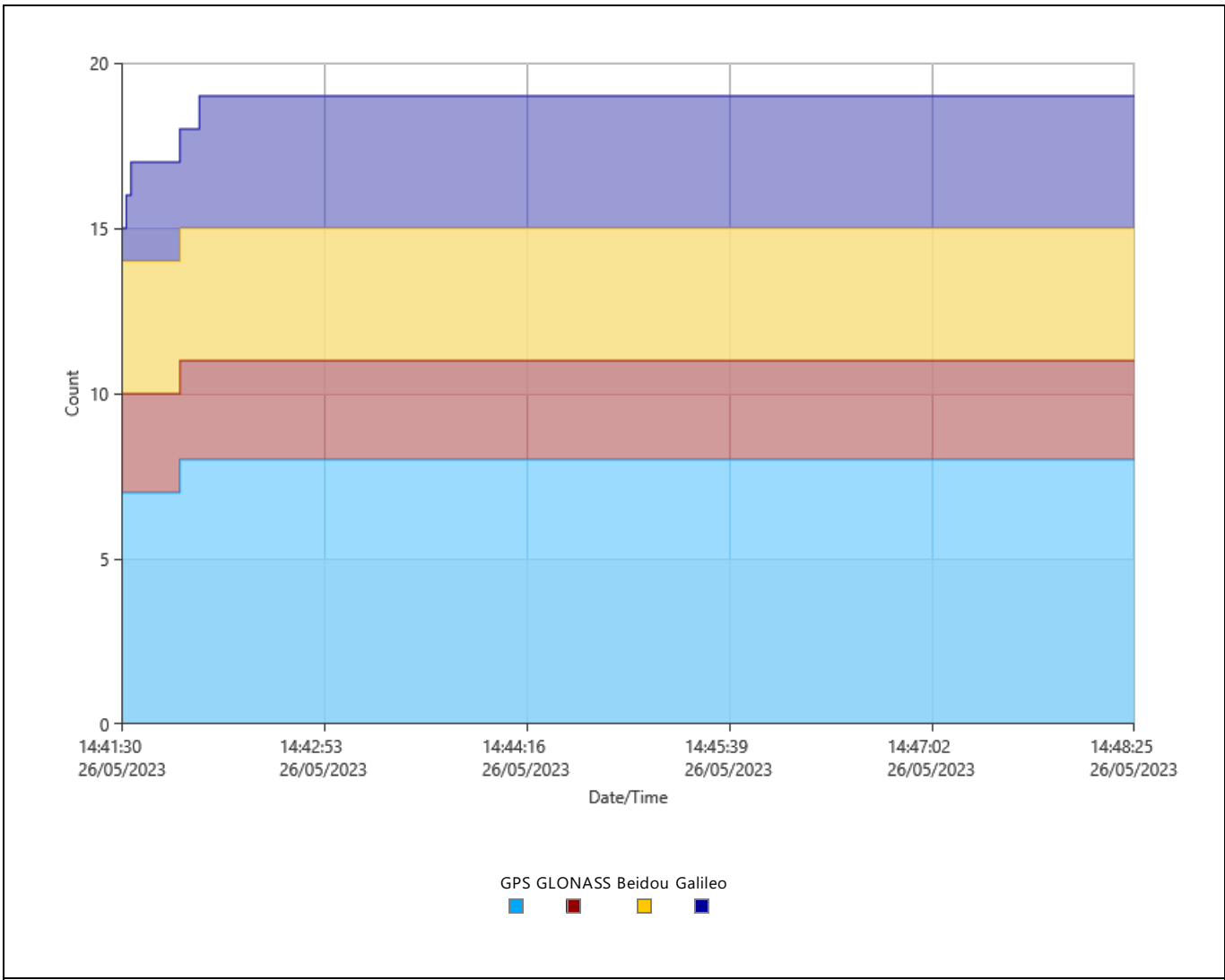
## Processing Info (26/05/2023 14:41:30 - 26/05/2023 14:48:26)

Processed Date/Time: 09/06/2023 17:54:21

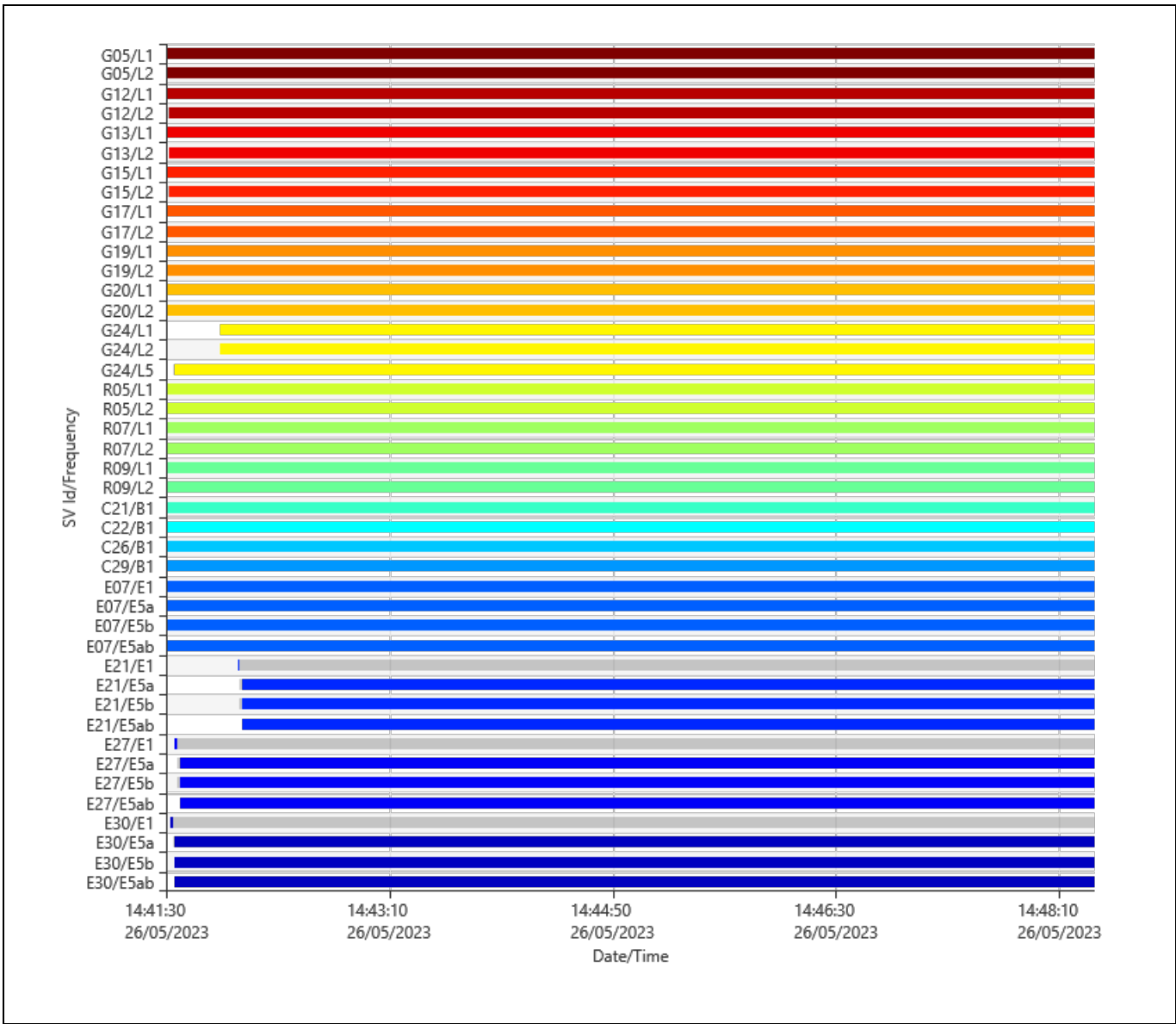
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G20 G24	-
GLONASS	R05 R07 R09	-
Beidou	C21 C22 C26 C29	-
Galileo	E07 E21 E27 E30	-

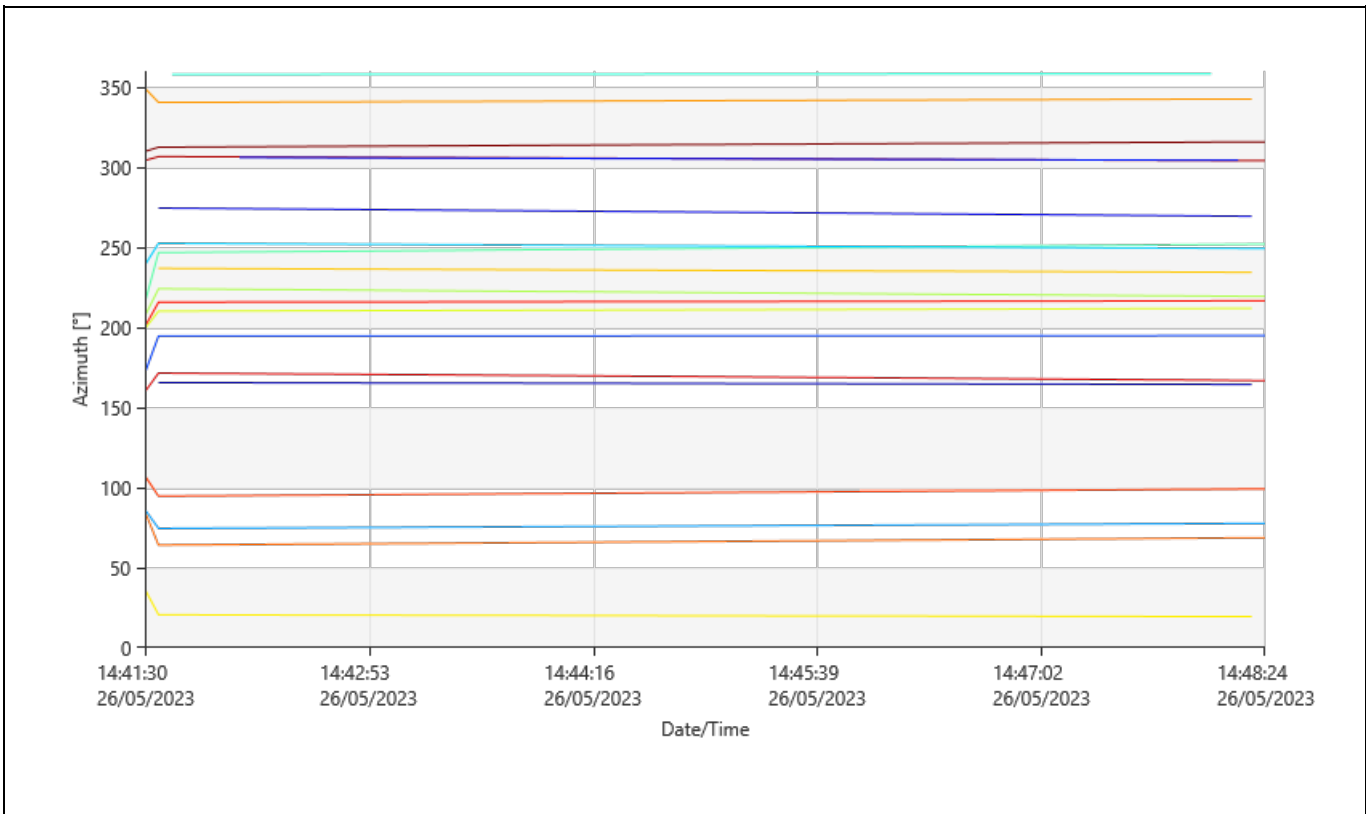
## SVs Tracked



**Signals Tracked**

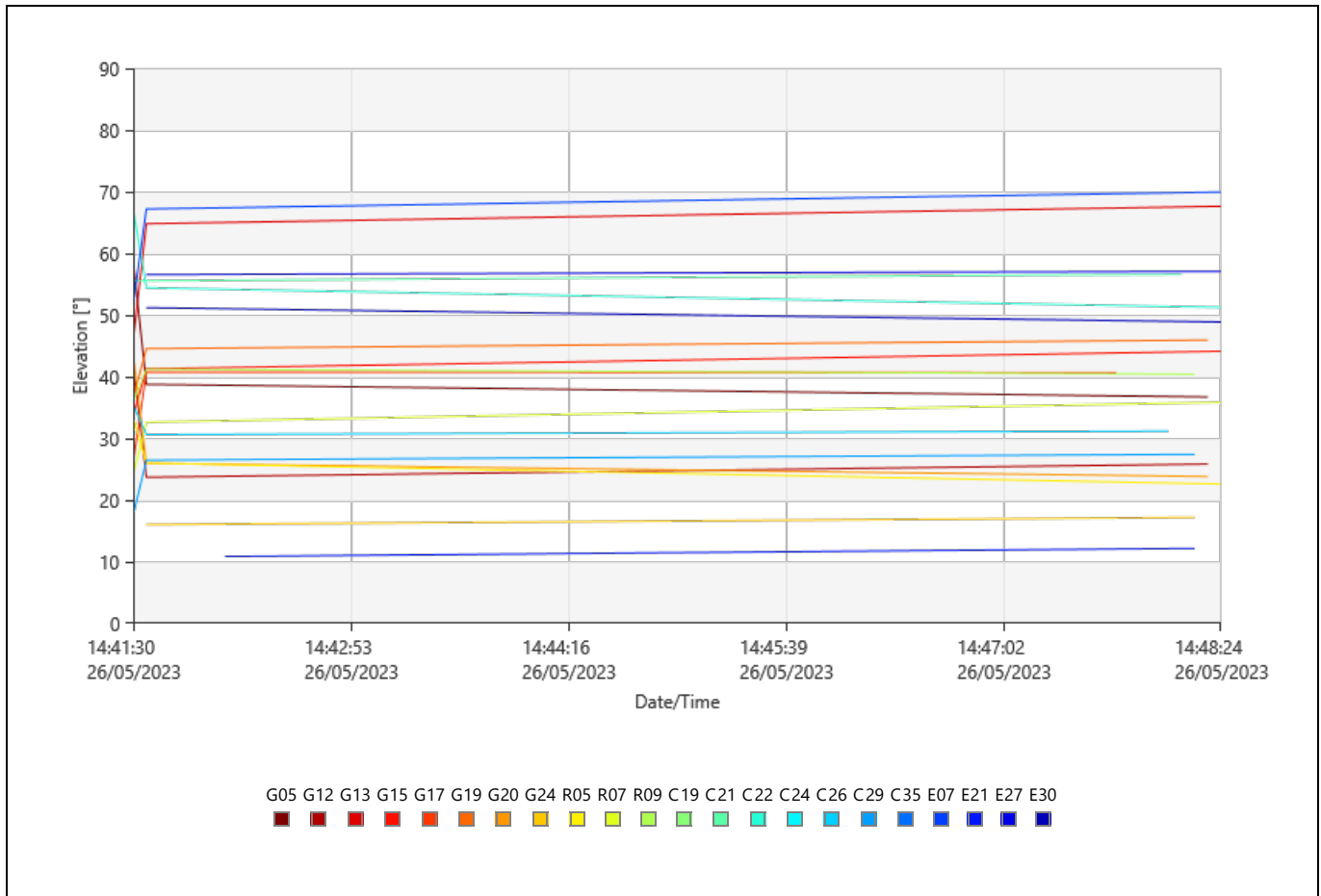


**Azimuth**



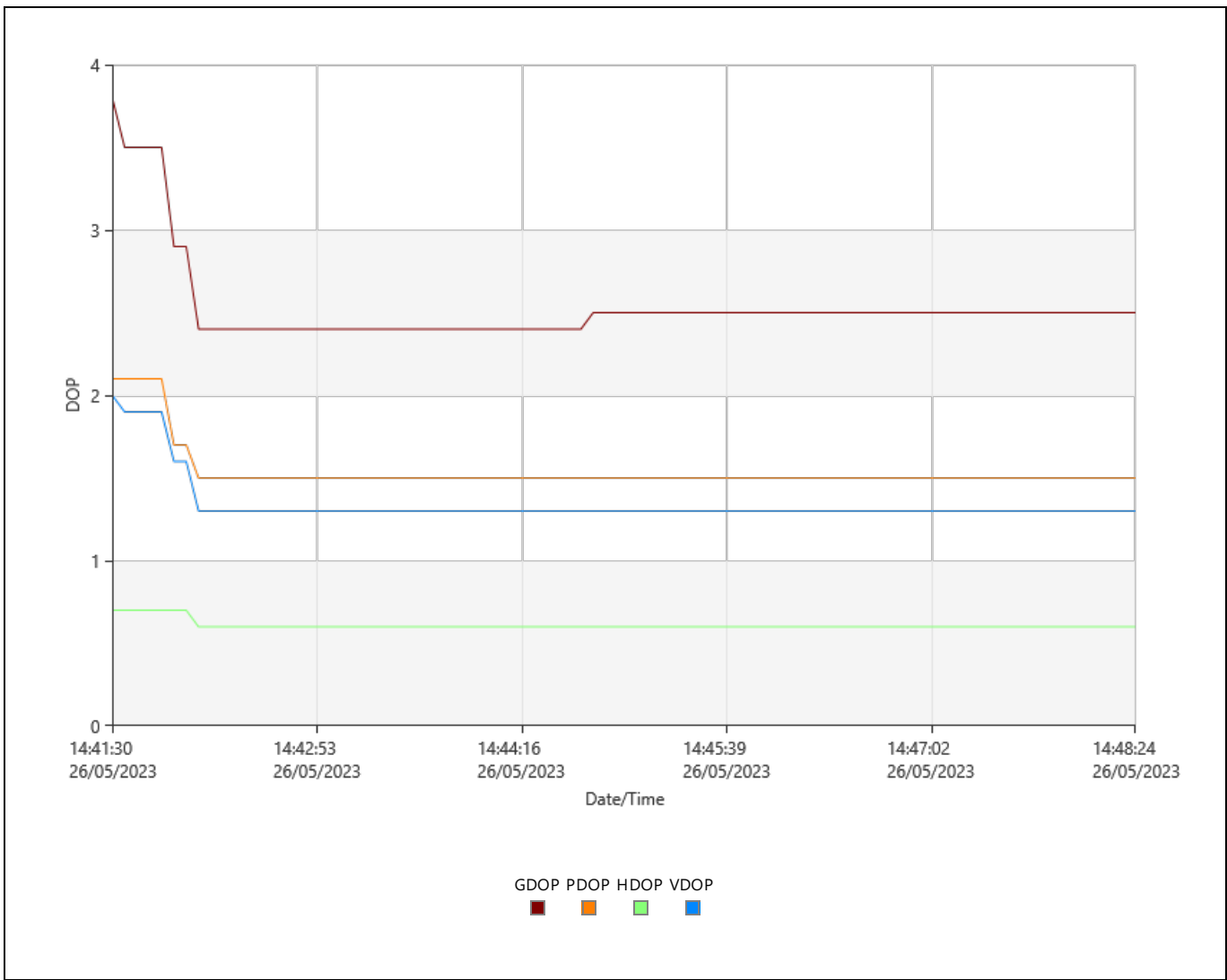
G05 G12 G13 G15 G17 G19 G20 G24 R05 R07 R09 C19 C21 C22 C24 C26 C29 C35 E07 E21 E27 E30

Elevation



DOP





### Observation Statistics

Common Epochs: 417

#### GPS Observations

Frequency	Used	Rejected
L1	3,312	0
L2	3,309	2
L5	413	1

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,251	0
L2	1,251	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,668	0

#### Galileo Observations

Frequency	Used	Rejected
E1	420	1,210
E5a	1,624	3
E5b	1,624	2
E5ab	1,624	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	8	4	16
Total	20	8	4	16
Independently fixed	52	52	52	52
Possible independently fixed	52	52	52	52

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 14:41:30	26/05/2023 14:48:26	00:06:56

## Residuals

### Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:41:31	No Data
	26/05/2023 14:41:30	26/05/2023 14:41:31	Rejected
	26/05/2023 14:41:31	26/05/2023 14:48:26	Used
	26/05/2023 14:41:31	26/05/2023 14:48:26	No Data

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:41:31	No Data
	26/05/2023 14:41:31	26/05/2023 14:48:26	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:41:31	No Data
	26/05/2023 14:41:30	26/05/2023 14:41:31	Rejected
	26/05/2023 14:41:31	26/05/2023 14:48:26	Used
	26/05/2023 14:41:31	26/05/2023 14:48:26	No Data

G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:41:54	No Data
	26/05/2023 14:41:54	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:41:54	No Data
	26/05/2023 14:41:54	26/05/2023 14:48:26	Used
L5	26/05/2023 14:41:30	26/05/2023 14:41:33	No Data
	26/05/2023 14:41:33	26/05/2023 14:41:34	Rejected
	26/05/2023 14:41:34	26/05/2023 14:48:26	Used

R05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
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R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
L2	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
E5a	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
E5b	26/05/2023 14:41:30	26/05/2023 14:48:26	Used
E5ab	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 14:41:30	26/05/2023 14:42:02	No Data
	26/05/2023 14:42:02	26/05/2023 14:42:03	Used
	26/05/2023 14:42:03	26/05/2023 14:48:26	Rejected
E5a	26/05/2023 14:41:30	26/05/2023 14:42:03	No Data
	26/05/2023 14:42:03	26/05/2023 14:42:04	Rejected
	26/05/2023 14:42:04	26/05/2023 14:48:26	Used
E5b	26/05/2023 14:41:30	26/05/2023 14:42:03	No Data
	26/05/2023 14:42:03	26/05/2023 14:42:04	Rejected
	26/05/2023 14:42:04	26/05/2023 14:48:26	Used
E5ab	26/05/2023 14:41:30	26/05/2023 14:42:04	No Data
	26/05/2023 14:42:04	26/05/2023 14:48:26	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 14:41:30	26/05/2023 14:41:34	No Data
	26/05/2023 14:41:34	26/05/2023 14:41:35	Used
	26/05/2023 14:41:35	26/05/2023 14:48:26	Rejected
E5a	26/05/2023 14:41:30	26/05/2023 14:41:35	No Data
	26/05/2023 14:41:35	26/05/2023 14:41:36	Rejected
	26/05/2023 14:41:36	26/05/2023 14:48:26	Used
E5b	26/05/2023 14:41:30	26/05/2023 14:41:35	No Data
	26/05/2023 14:41:35	26/05/2023 14:41:36	Rejected
	26/05/2023 14:41:36	26/05/2023 14:48:26	Used
E5ab	26/05/2023 14:41:30	26/05/2023 14:41:36	No Data
	26/05/2023 14:41:36	26/05/2023 14:48:26	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 14:41:30	26/05/2023 14:41:32	No Data
	26/05/2023 14:41:32	26/05/2023 14:41:33	Used
	26/05/2023 14:41:33	26/05/2023 14:48:26	Rejected
E5a	26/05/2023 14:41:30	26/05/2023 14:41:33	No Data
	26/05/2023 14:41:33	26/05/2023 14:41:34	Rejected
	26/05/2023 14:41:34	26/05/2023 14:48:26	Used
E5b	26/05/2023 14:41:30	26/05/2023 14:41:34	No Data
	26/05/2023 14:41:34	26/05/2023 14:48:26	Used
E5ab	26/05/2023 14:41:30	26/05/2023 14:41:34	No Data
	26/05/2023 14:41:34	26/05/2023 14:48:26	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 14:41:30	26/05/2023 14:48:26	Used

## Cycle Slips

Slip Count: 0

## Processing Messages

### Warning

Missing orbits for satellite R06.  
Missing orbits for satellite R10.

# Baseline MOQ01058 - PAF-CU2-2C

## Processing Parameters (26/05/2023 15:18:00 - 26/05/2023 15:24:18)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-2C

---

### Acquisition

Start Time - End Time: 26/05/2023 15:18:00 - 26/05/2023 15:24:18  
Duration: 00:06:18

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-2C
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1	L2	L1	L2
	East	0.000 m	0.002 m	0.000 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-2C		Reference - MOQ01058	Rover - PAF-CU2-2C
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 34.10357" S	Easting:	318,107.441 m	314,892.814 m
WGS84 Longitude:	-	70° 44' 21.65790" W	Northing:	8,117,307.121 m	8,113,041.279 m
WGS84 Ellip. Height:	-	3,753.827 m	Ortho. Height:	3,897.429 m	3,712.959 m
WGS84 Cartesian X:	-	2,013,123.445 m			
WGS84 Cartesian Y:	-	-5,761,259.300 m			
WGS84 Cartesian Z:	-	-1,860,227.926 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 17.83455"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 49.96745"	SD ΔLongitude:	0.000 m
ΔHeight:	-185.084 m	SD ΔHeight:	0.001 m
ΔX:	-3,540.187 m	SD ΔX:	0.000 m
ΔY:	265.629 m	SD ΔY:	0.000 m
ΔZ:	-3,999.451 m	SD ΔZ:	0.000 m
Slope Dist.:	5,347.812 m	SD Slope Dist.:	0.000 m

M0:	0.671 m	CQ 1D:	0.001 m
Q11:	0.00000012	CQ 2D:	0.000 m
Q12:	-0.00000016	CQ 3D:	0.001 m
Q22:	0.00000055		
Q13:	-0.00000003		
Q23:	0.00000009		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.4 - 2.9	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.4 - 1.6	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	4/4
		VDOP:	1.3 - 1.5	Galileo SVs:	4/5
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

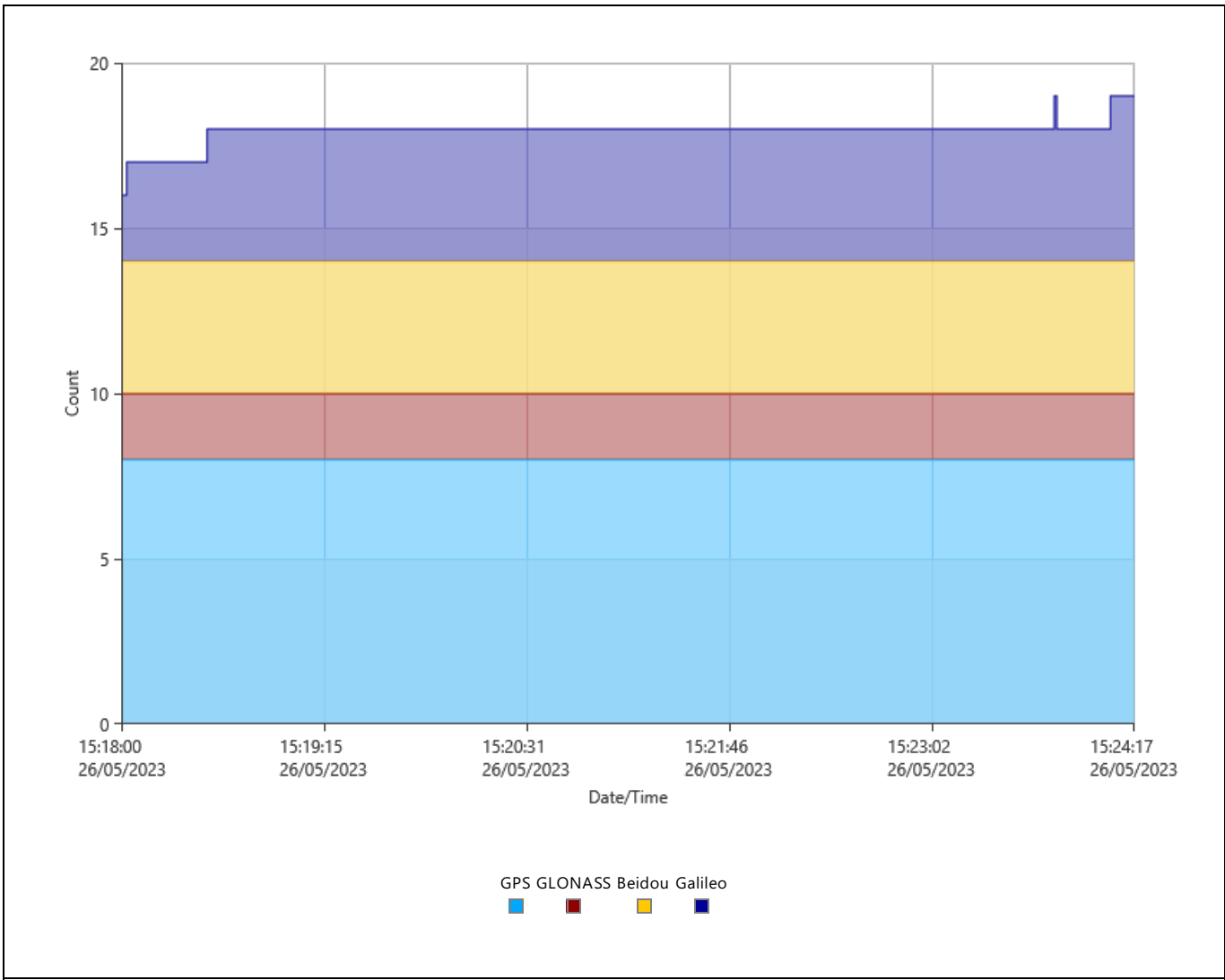
## Processing Info (26/05/2023 15:18:00 - 26/05/2023 15:24:18)

Processed Date/Time: 09/06/2023 17:54:21

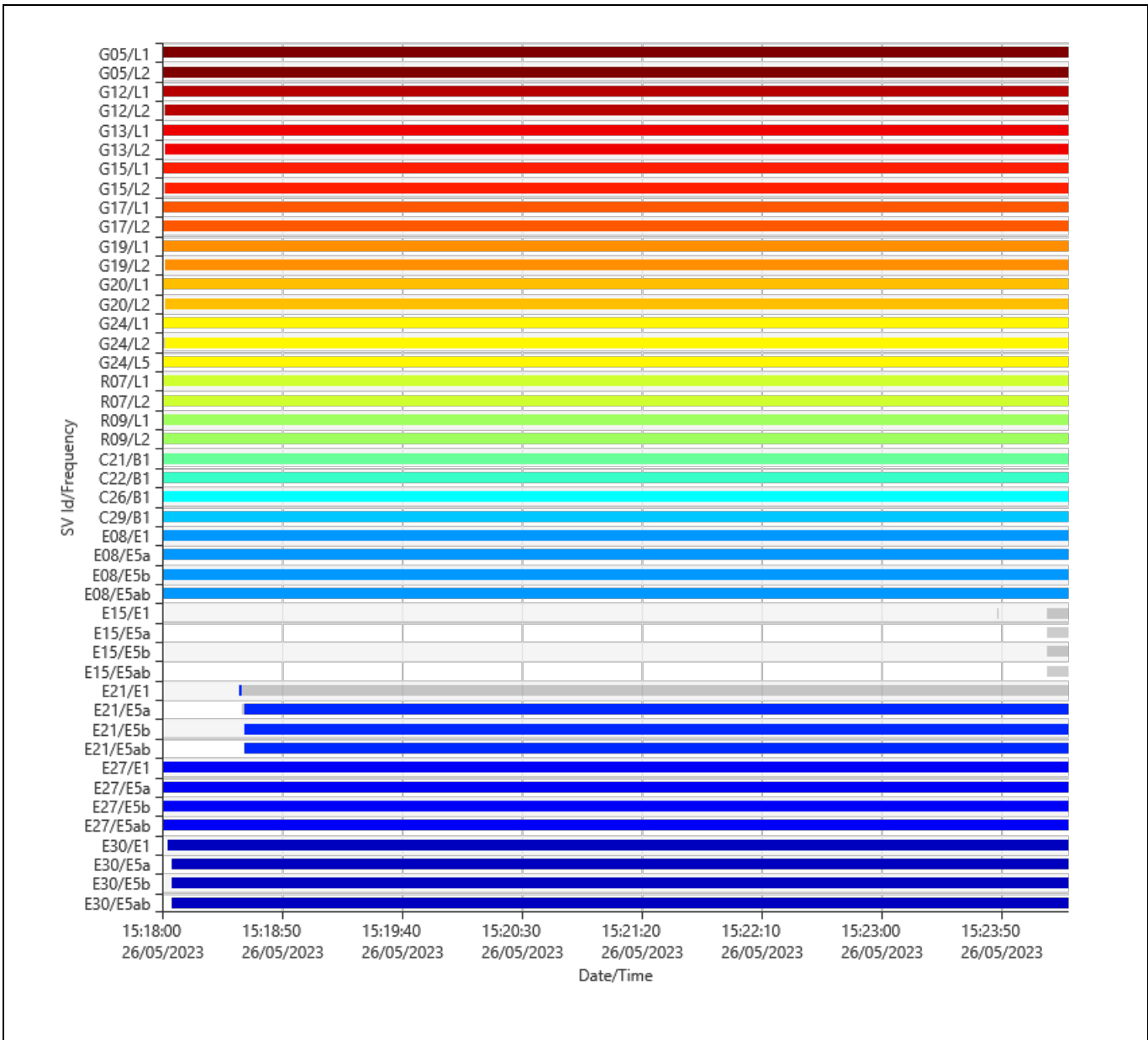
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G20 G24	-
GLONASS	R07 R09	-
Beidou	C21 C22 C26 C29	-
Galileo	E08 E21 E27 E30	-

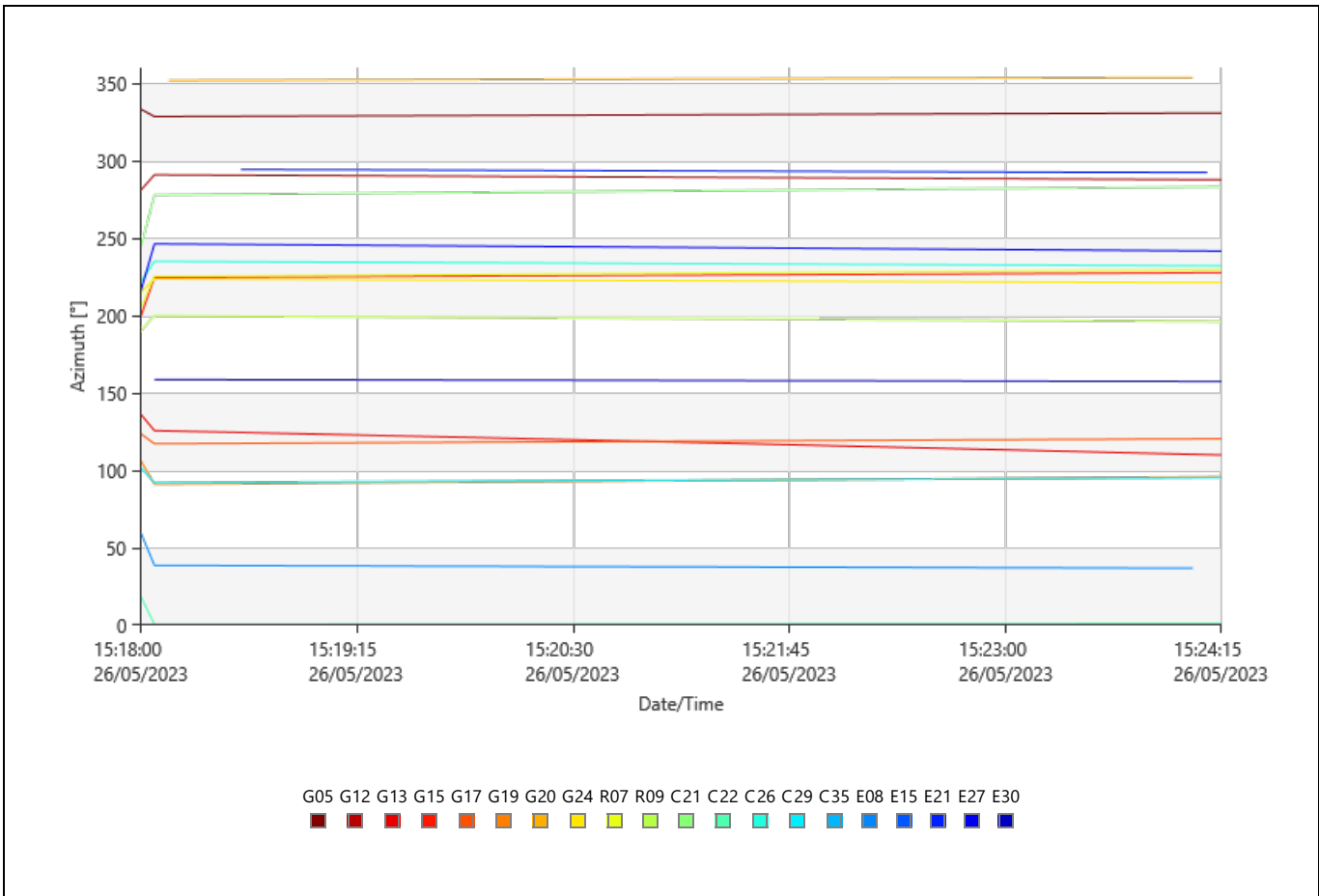
## SVs Tracked



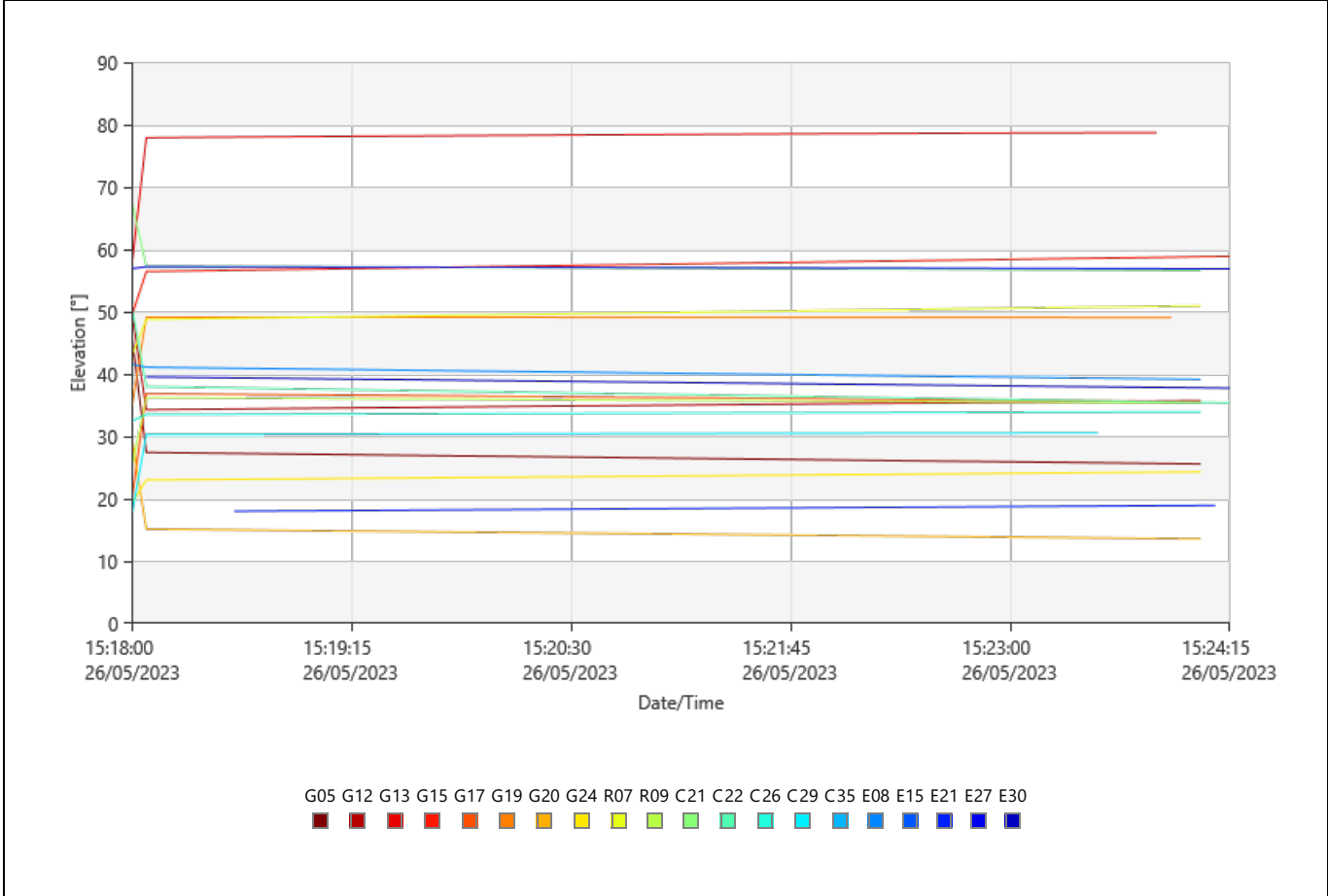
**Signals Tracked**



**Azimuth**

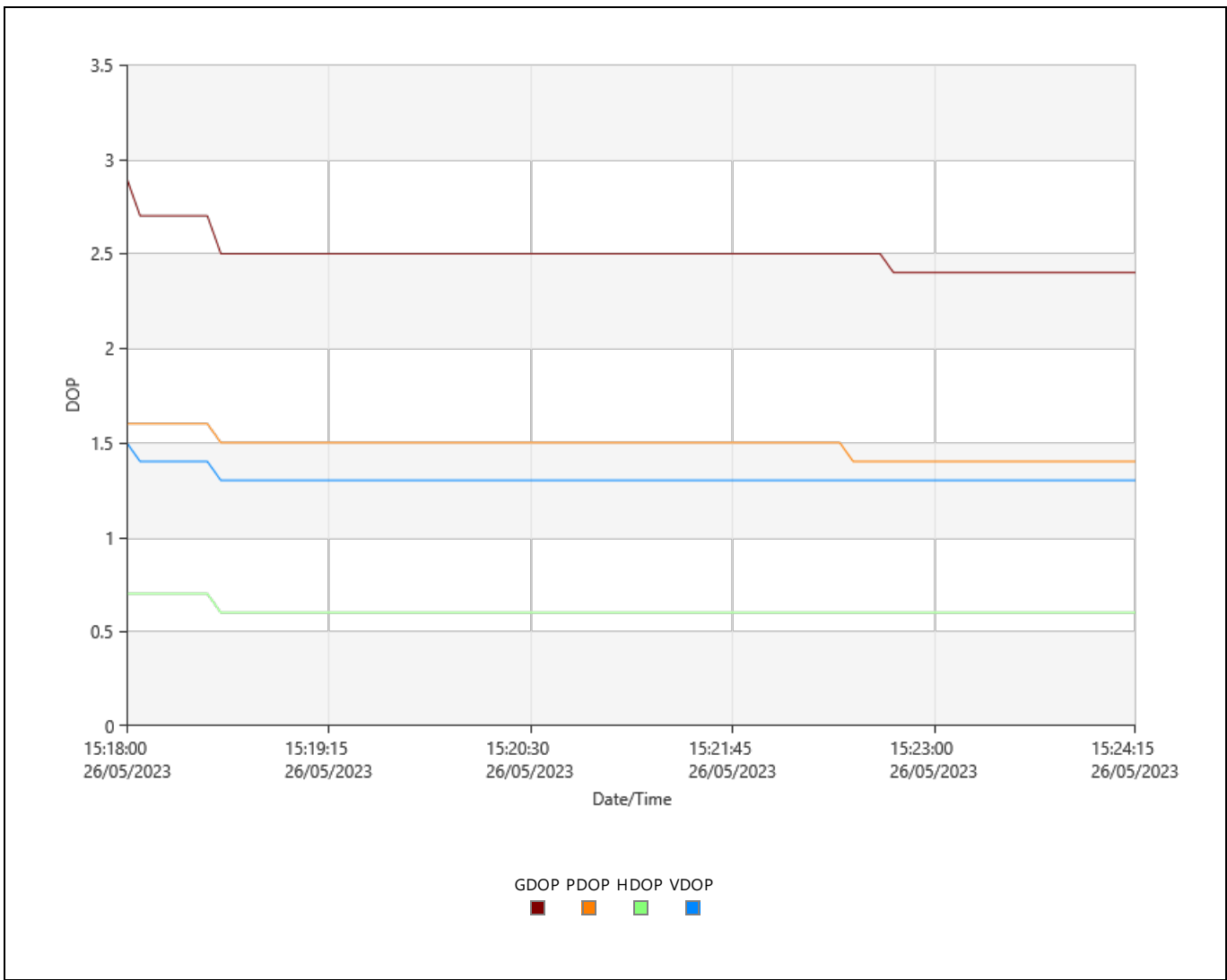


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 379

#### GPS Observations

Frequency	Used	Rejected
L1	3,032	0
L2	3,026	3
L5	379	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	758	0
L2	758	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,516	0

#### Galileo Observations

Frequency	Used	Rejected
E1	1,136	357
E5a	1,478	11
E5b	1,478	10
E5ab	1,478	10

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	17	4	4	16
Total	17	4	4	20
Independently fixed	47	47	47	47
Possible independently fixed	47	47	47	47

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	99.33	99.46	99.46	100.00
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.54	0.54	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 15:18:00	26/05/2023 15:24:18	00:06:18

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 26/05/2023 12:16:22  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 26/05/2023 17:28:42  
Origin Date/Time: 26/05/2023 12:16:22

Deg. Latitude	Deg. Time	Value	RMS
0	0	3.9515113801	0.0181829654
0	1	0.4544187344	0.0168552325
0	2	-0.4366991399	0.0057915034
1	0	-0.0235264240	0.0110743266
1	1	0.0727132190	0.0070330057

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:00	26/05/2023 15:18:01	Rejected
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used
	26/05/2023 15:18:01	26/05/2023 15:24:18	No Data

#### G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:00	26/05/2023 15:18:01	Rejected
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used
	26/05/2023 15:18:01	26/05/2023 15:24:18	No Data

#### G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:18:01	No Data
	26/05/2023 15:18:00	26/05/2023 15:18:01	Rejected
	26/05/2023 15:18:01	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:01	26/05/2023 15:24:18	Used
	26/05/2023 15:18:01	26/05/2023 15:24:18	No Data
L5	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
L2	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5a	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5b	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5ab	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:18:00	26/05/2023 15:23:48	No Data
	26/05/2023 15:23:48	26/05/2023 15:23:49	Rejected
	26/05/2023 15:23:49	26/05/2023 15:24:09	No Data
	26/05/2023 15:24:09	26/05/2023 15:24:18	Rejected
E5a	26/05/2023 15:18:00	26/05/2023 15:24:09	No Data
	26/05/2023 15:24:09	26/05/2023 15:24:18	Rejected
E5b	26/05/2023 15:18:00	26/05/2023 15:24:09	No Data
	26/05/2023 15:24:09	26/05/2023 15:24:18	Rejected
E5ab	26/05/2023 15:18:00	26/05/2023 15:24:09	No Data
	26/05/2023 15:24:09	26/05/2023 15:24:18	Rejected

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:18:00	26/05/2023 15:18:32	No Data
	26/05/2023 15:18:32	26/05/2023 15:18:33	Used
	26/05/2023 15:18:33	26/05/2023 15:24:18	Rejected
E5a	26/05/2023 15:18:00	26/05/2023 15:18:33	No Data
	26/05/2023 15:18:33	26/05/2023 15:18:34	Rejected
E5b	26/05/2023 15:18:34	26/05/2023 15:24:18	Used
	26/05/2023 15:18:00	26/05/2023 15:18:34	No Data
E5ab	26/05/2023 15:18:34	26/05/2023 15:24:18	Used
	26/05/2023 15:18:00	26/05/2023 15:18:34	No Data

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5a	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5b	26/05/2023 15:18:00	26/05/2023 15:24:18	Used
E5ab	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:18:00	26/05/2023 15:18:02	No Data
	26/05/2023 15:18:02	26/05/2023 15:24:18	Used
E5a	26/05/2023 15:18:00	26/05/2023 15:18:04	No Data
	26/05/2023 15:18:04	26/05/2023 15:24:18	Used

E5b	26/05/2023 15:18:00	26/05/2023 15:18:04	No Data
	26/05/2023 15:18:04	26/05/2023 15:24:18	Used
E5ab	26/05/2023 15:18:00	26/05/2023 15:18:04	No Data
	26/05/2023 15:18:04	26/05/2023 15:24:18	Used

#### C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

#### C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

#### C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

#### C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:18:00	26/05/2023 15:24:18	Used

### Cycle Slips

Slip Count: 0

### Processing Messages

#### Warning

Missing orbits for satellite R06.  
Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-01D

### Processing Parameters (26/05/2023 15:22:30 - 26/05/2023 15:28:23)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

#### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

#### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-01D

### Acquisition

Start Time - End Time: 26/05/2023 15:22:30 - 26/05/2023 15:28:23  
Duration: 00:05:53

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-01D
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-01D		Reference - MOQ01058	Rover - PAF-CU2-01D
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 59.21669" S	Easting:	318,107.441 m	315,267.667 m
WGS84 Longitude:	-	70° 44' 09.21308" W	Northing:	8,117,307.121 m	8,112,272.549 m
WGS84 Ellip. Height:	-	3,641.242 m	Ortho. Height:	3,897.429 m	3,600.401 m
WGS84 Cartesian X:	-	2,013,360.752 m			
WGS84 Cartesian Y:	-	-5,760,822.257 m			
WGS84 Cartesian Z:	-	-1,860,933.358 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 42.94767"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 37.52263"	SD ΔLongitude:	0.000 m
ΔHeight:	-297.669 m	SD ΔHeight:	0.001 m
ΔX:	-3,302.880 m	SD ΔX:	0.000 m
ΔY:	702.671 m	SD ΔY:	0.001 m
ΔZ:	-4,704.883 m	SD ΔZ:	0.000 m
Slope Dist.:	5,791.259 m	SD Slope Dist.:	0.000 m

M0:	0.758 m	CQ 1D:	0.001 m
Q11:	0.00000013	CQ 2D:	0.000 m
Q12:	-0.00000018	CQ 3D:	0.001 m
Q22:	0.00000055		
Q13:	-0.00000005		
Q23:	0.00000013		
Q33:	0.00000014		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.6 - 2.9	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.5 - 1.7	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.4 - 1.6	Galileo SVs:	4/4
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise

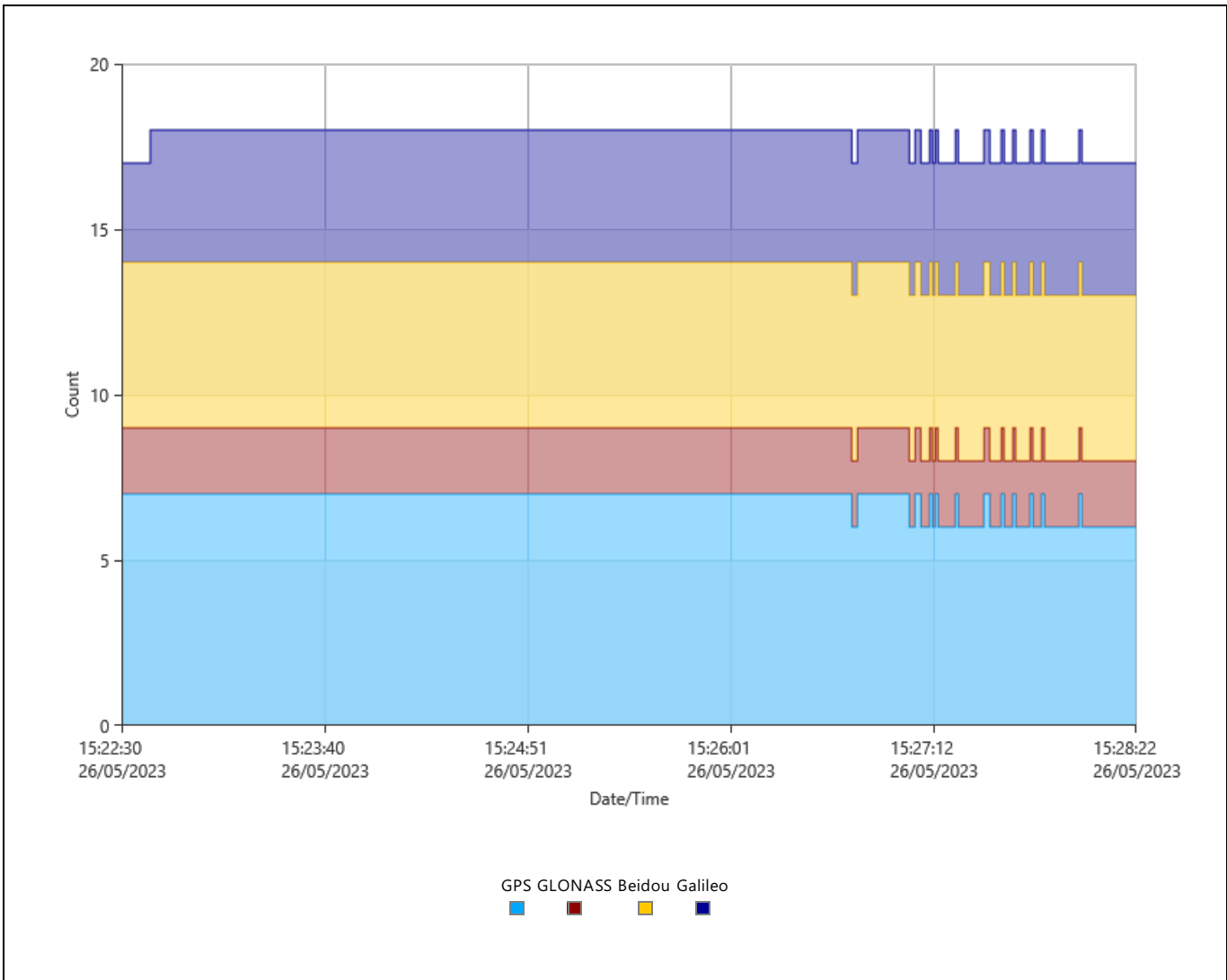
### Processing Info (26/05/2023 15:22:30 - 26/05/2023 15:28:23)

Processed Date/Time: 09/06/2023 17:54:21

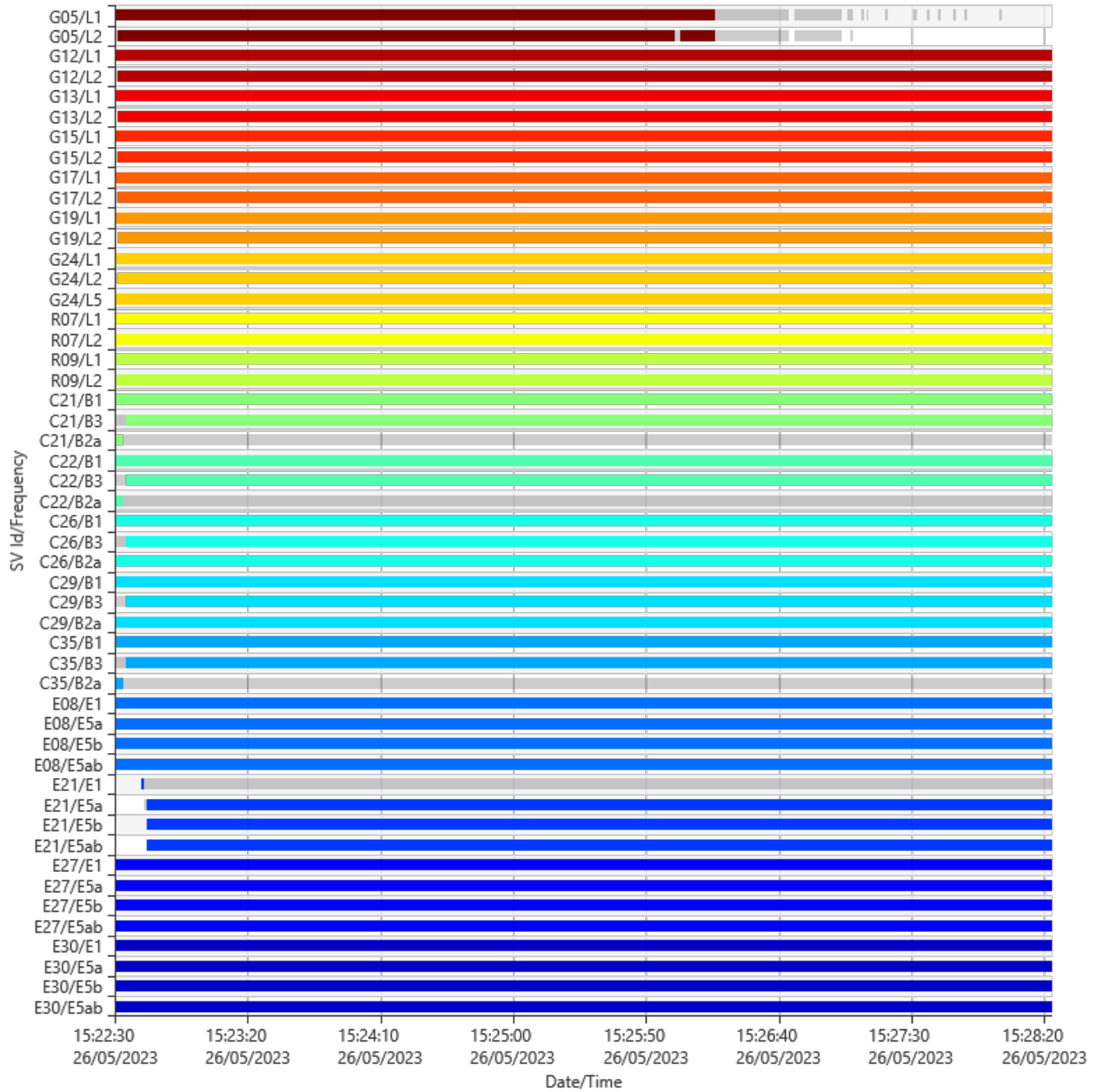
#### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G24	-
GLONASS	R07 R09	-
Beidou	C21 C22 C26 C29 C35	-
Galileo	E08 E21 E27 E30	-

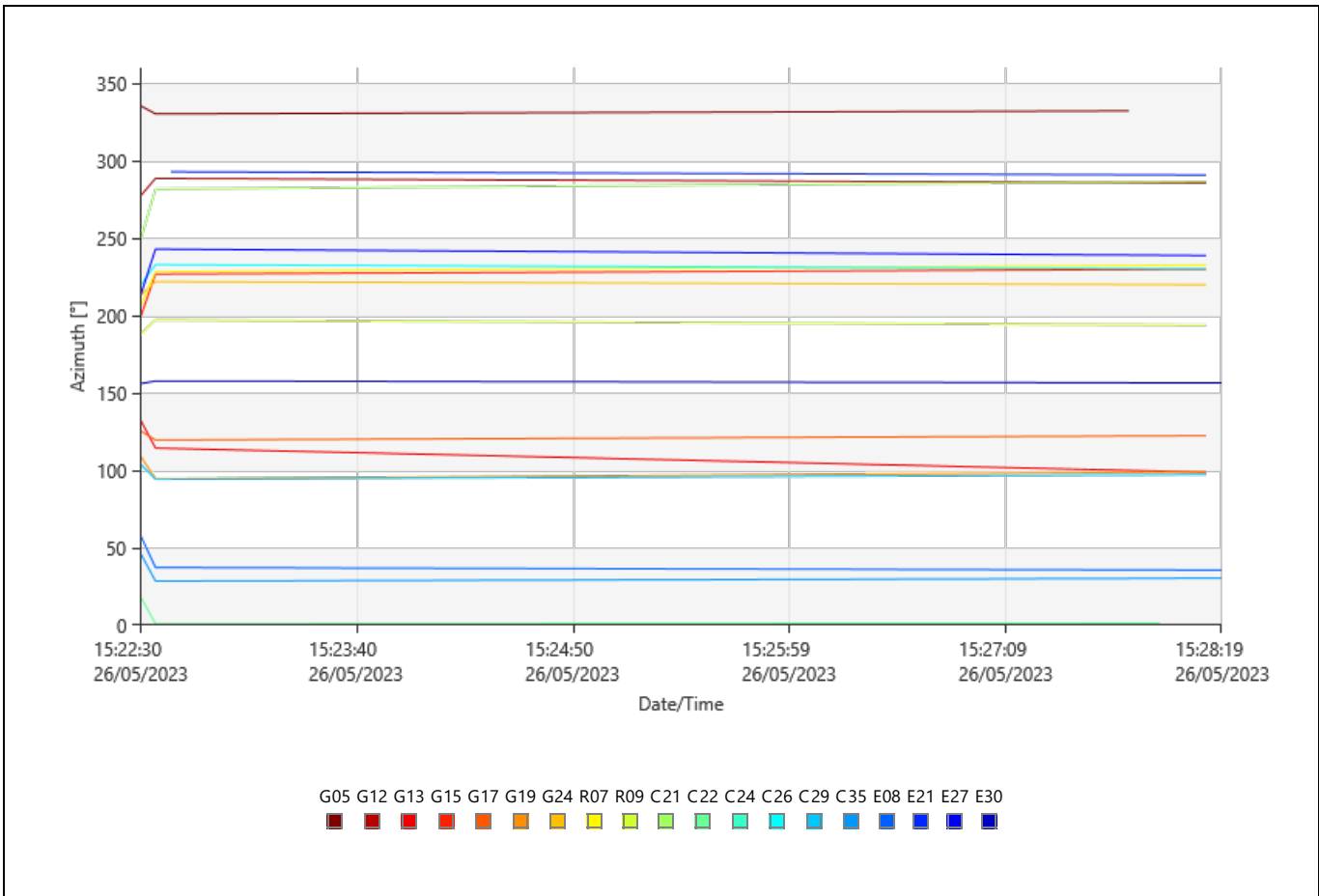
#### SVs Tracked



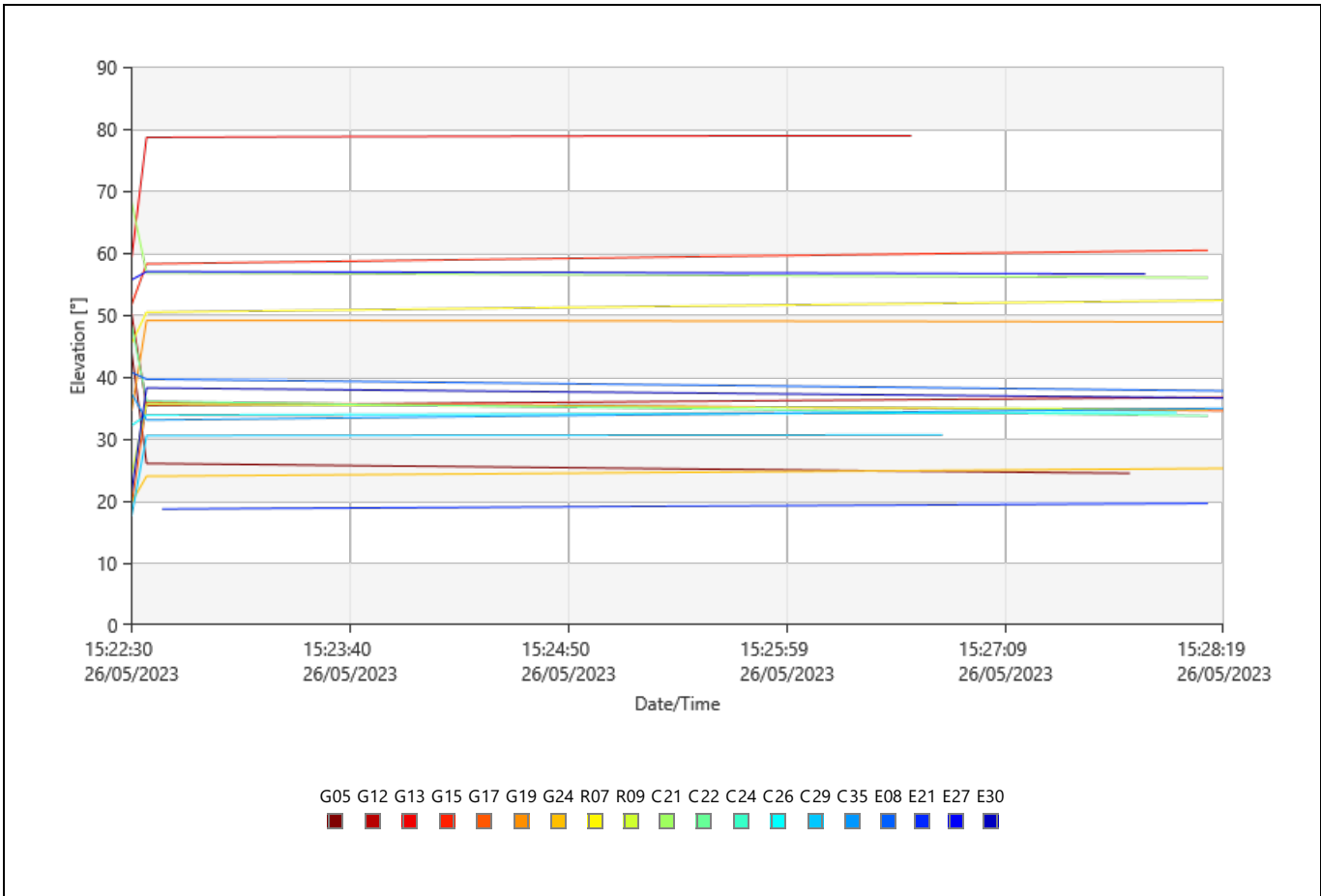
#### Signals Tracked



Azimuth

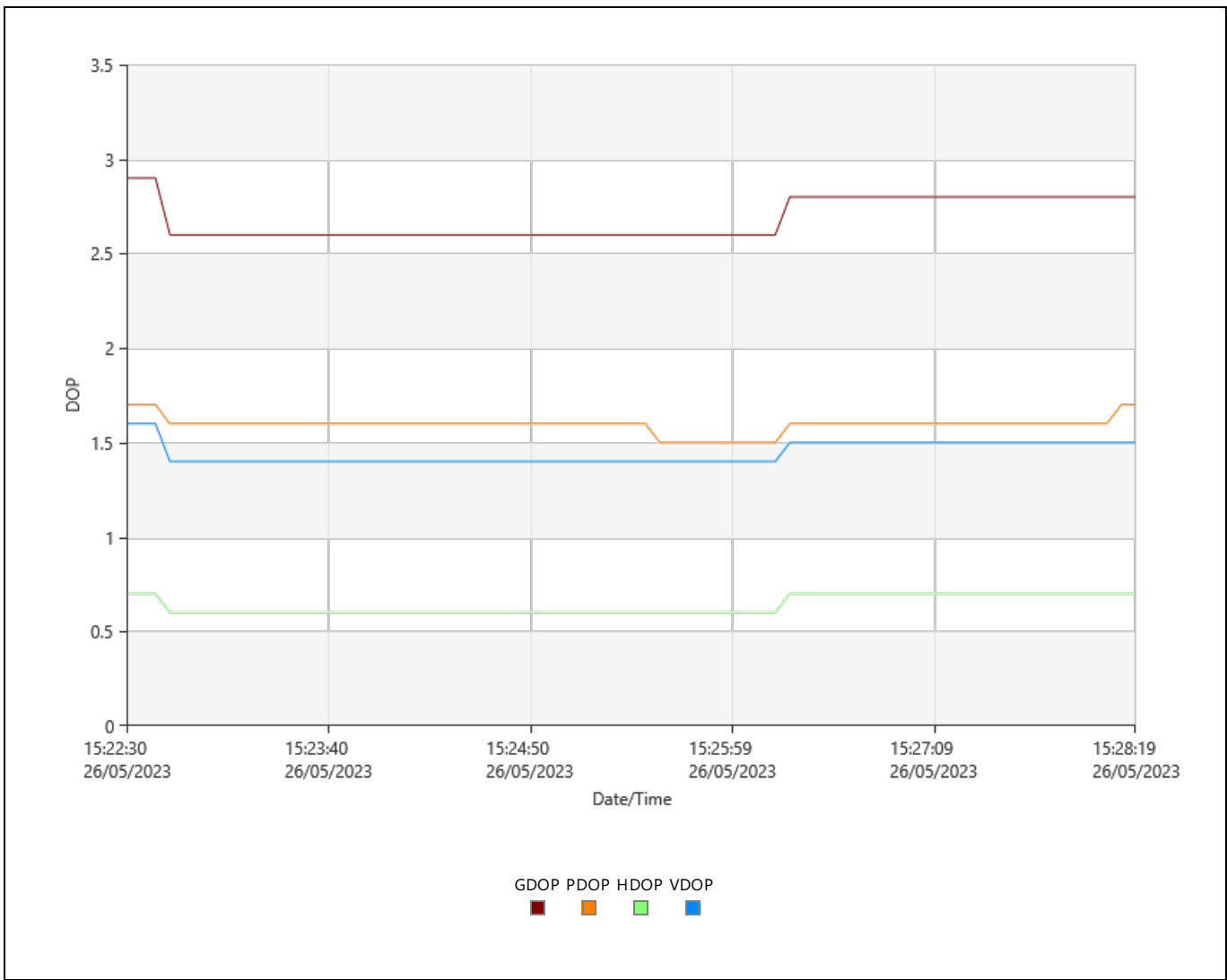


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 354

#### GPS Observations

Frequency	Used	Rejected
L1	2,350	58
L2	2,341	54
L5	354	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	708	0
L2	708	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,770	0
B3	1,750	20
B2a	717	1,053

#### Galileo Observations

Frequency	Used	Rejected
E1	1,063	343
E5a	1,404	1
E5b	1,404	0
E5ab	1,404	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	15	4	15	16
Total	20	4	15	16
Independently fixed	43	43	43	43
Possible independently fixed	48	48	48	48

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	98.82	90.73	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Not fixed	1.18	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	8.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 15:22:30	26/05/2023 15:28:23	00:05:53

## Residuals

### Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:26:16	Used
	26/05/2023 15:26:16	26/05/2023 15:26:44	Rejected
	26/05/2023 15:26:44	26/05/2023 15:26:46	No Data
	26/05/2023 15:26:46	26/05/2023 15:27:04	Rejected
	26/05/2023 15:27:04	26/05/2023 15:27:06	No Data
	26/05/2023 15:27:06	26/05/2023 15:27:08	Rejected
	26/05/2023 15:27:08	26/05/2023 15:27:11	No Data
	26/05/2023 15:27:11	26/05/2023 15:27:12	Rejected
	26/05/2023 15:27:12	26/05/2023 15:27:13	No Data
	26/05/2023 15:27:13	26/05/2023 15:27:14	Rejected
	26/05/2023 15:27:14	26/05/2023 15:27:20	No Data
	26/05/2023 15:27:20	26/05/2023 15:27:21	Rejected
	26/05/2023 15:27:21	26/05/2023 15:27:30	No Data
	26/05/2023 15:27:30	26/05/2023 15:27:32	Rejected
	26/05/2023 15:27:32	26/05/2023 15:27:36	No Data
	26/05/2023 15:27:36	26/05/2023 15:27:37	Rejected
	26/05/2023 15:27:37	26/05/2023 15:27:40	No Data
	26/05/2023 15:27:40	26/05/2023 15:27:41	Rejected
	26/05/2023 15:27:41	26/05/2023 15:27:46	No Data
	26/05/2023 15:27:46	26/05/2023 15:27:47	Rejected
	26/05/2023 15:27:47	26/05/2023 15:27:50	No Data
	26/05/2023 15:27:50	26/05/2023 15:27:51	Rejected
	26/05/2023 15:27:51	26/05/2023 15:28:03	No Data
	26/05/2023 15:28:03	26/05/2023 15:28:04	Rejected
	26/05/2023 15:28:04	26/05/2023 15:28:23	No Data
	L2	26/05/2023 15:22:30	26/05/2023 15:22:31
26/05/2023 15:22:30		26/05/2023 15:22:31	Rejected
26/05/2023 15:22:31		26/05/2023 15:26:01	No Data
26/05/2023 15:22:31		26/05/2023 15:26:01	Used
26/05/2023 15:26:01		26/05/2023 15:26:02	No Data
26/05/2023 15:26:01		26/05/2023 15:26:02	Rejected
26/05/2023 15:26:02		26/05/2023 15:26:03	Rejected
26/05/2023 15:26:03		26/05/2023 15:26:16	Used
26/05/2023 15:26:03		26/05/2023 15:26:28	No Data
26/05/2023 15:26:16		26/05/2023 15:26:28	Rejected
26/05/2023 15:26:28		26/05/2023 15:26:32	No Data
26/05/2023 15:26:28		26/05/2023 15:26:32	Rejected
26/05/2023 15:26:32		26/05/2023 15:26:37	No Data
26/05/2023 15:26:32		26/05/2023 15:26:37	Rejected
26/05/2023 15:26:37		26/05/2023 15:26:41	No Data
26/05/2023 15:26:37		26/05/2023 15:26:41	Rejected
26/05/2023 15:26:41		26/05/2023 15:26:43	No Data
26/05/2023 15:26:41		26/05/2023 15:26:43	Rejected
26/05/2023 15:26:43		26/05/2023 15:26:44	Rejected
26/05/2023 15:26:43		26/05/2023 15:26:46	No Data
26/05/2023 15:26:44		26/05/2023 15:26:50	No Data
26/05/2023 15:26:46		26/05/2023 15:26:50	Rejected
26/05/2023 15:26:50		26/05/2023 15:26:54	No Data
26/05/2023 15:26:50		26/05/2023 15:26:54	Rejected
26/05/2023 15:26:54		26/05/2023 15:26:55	No Data
26/05/2023 15:26:54		26/05/2023 15:26:55	Rejected
26/05/2023 15:26:55		26/05/2023 15:26:59	No Data
26/05/2023 15:26:55		26/05/2023 15:26:59	Rejected
26/05/2023 15:26:59		26/05/2023 15:27:01	No Data
26/05/2023 15:26:59		26/05/2023 15:27:01	Rejected
26/05/2023 15:27:01		26/05/2023 15:27:02	No Data
26/05/2023 15:27:01		26/05/2023 15:27:02	Rejected
26/05/2023 15:27:02	26/05/2023 15:27:03	No Data	
26/05/2023 15:27:02	26/05/2023 15:27:03	Rejected	
26/05/2023 15:27:03	26/05/2023 15:27:04	Rejected	
26/05/2023 15:27:04	26/05/2023 15:27:07	No Data	
26/05/2023 15:27:07	26/05/2023 15:27:08	Rejected	
26/05/2023 15:27:03	26/05/2023 15:28:23	No Data	

	26/05/2023 15:27:08	26/05/2023 15:28:23	No Data
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G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:30	26/05/2023 15:22:31	Rejected
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used
	26/05/2023 15:22:31	26/05/2023 15:28:23	No Data

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:30	26/05/2023 15:22:31	Rejected
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used
	26/05/2023 15:22:31	26/05/2023 15:28:23	No Data

G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:30	26/05/2023 15:22:31	Rejected
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used
	26/05/2023 15:22:31	26/05/2023 15:28:23	No Data

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:22:31	No Data
	26/05/2023 15:22:30	26/05/2023 15:22:31	Rejected
	26/05/2023 15:22:31	26/05/2023 15:28:23	Used
	26/05/2023 15:22:31	26/05/2023 15:28:23	No Data
L5	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
L2	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5a	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5b	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5ab	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

E21

Frequency	From Epoch	To Epoch	Status
	26/05/2023 15:22:30	26/05/2023 15:22:40	No Data

E1	26/05/2023 15:22:40	26/05/2023 15:22:41	Used
	<b>26/05/2023 15:22:41</b>	<b>26/05/2023 15:28:23</b>	<b>Rejected</b>
E5a	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:41</b>	<b>No Data</b>
	<b>26/05/2023 15:22:41</b>	<b>26/05/2023 15:22:42</b>	<b>Rejected</b>
E5b	26/05/2023 15:22:42	26/05/2023 15:28:23	Used
	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:42</b>	<b>No Data</b>
E5ab	26/05/2023 15:22:42	26/05/2023 15:28:23	Used
	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:42</b>	<b>No Data</b>

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5a	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5b	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5ab	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5a	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5b	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
E5ab	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
B3	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:34</b>	<b>Rejected</b>
	26/05/2023 15:22:34	26/05/2023 15:28:23	Used
B2a	26/05/2023 15:22:30	26/05/2023 15:22:33	Used
	<b>26/05/2023 15:22:33</b>	<b>26/05/2023 15:28:23</b>	<b>Rejected</b>

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
B3	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:34</b>	<b>Rejected</b>
	26/05/2023 15:22:34	26/05/2023 15:28:23	Used
B2a	26/05/2023 15:22:30	26/05/2023 15:22:33	Used
	<b>26/05/2023 15:22:33</b>	<b>26/05/2023 15:28:23</b>	<b>Rejected</b>

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
B3	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:34</b>	<b>Rejected</b>
	26/05/2023 15:22:34	26/05/2023 15:28:23	Used
B2a	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
B3	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:34</b>	<b>Rejected</b>
	26/05/2023 15:22:34	26/05/2023 15:28:23	Used
B2a	26/05/2023 15:22:30	26/05/2023 15:28:23	Used

C35

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:22:30	26/05/2023 15:28:23	Used
B3	<b>26/05/2023 15:22:30</b>	<b>26/05/2023 15:22:34</b>	<b>Rejected</b>
	26/05/2023 15:22:34	26/05/2023 15:28:23	Used
B2a	26/05/2023 15:22:30	26/05/2023 15:22:33	Used
	<b>26/05/2023 15:22:33</b>	<b>26/05/2023 15:28:23</b>	<b>Rejected</b>

Cycle Slips

Slip Count: 4

SV	Frequency	Epoch	Slip Value	Flag

G05	L1	26/05/2023 15:26:02	-	Flagged
		26/05/2023 15:26:22	-	RIA
	L2	26/05/2023 15:26:02	9.0000000000	Flagged
		26/05/2023 15:26:22	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-3C

### Processing Parameters (26/05/2023 15:34:59 - 26/05/2023 15:41:37)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-3C

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### Acquisition

Start Time - End Time:	26/05/2023 15:34:59 - 26/05/2023 15:41:37
Duration:	00:06:38

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-3C
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

---

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-3C	Reference - MOQ01058	Rover - PAF-CU2-3C
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 03' 21.14121" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 44' 26.02519" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,661.940 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,013,011.063 m		
WGS84 Cartesian Y:	-	-5,761,329.406 m		
WGS84 Cartesian Z:	-	-1,859,819.795 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 04.87220"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 54.33474"	SD ΔLongitude:	0.000 m
ΔHeight:	-276.971 m	SD ΔHeight:	0.000 m
ΔX:	-3,652.570 m	SD ΔX:	0.000 m
ΔY:	195.522 m	SD ΔY:	0.000 m
ΔZ:	-3,591.320 m	SD ΔZ:	0.000 m
Slope Dist.:	5,126.117 m	SD Slope Dist.:	0.000 m

M0:	0.354 m	CQ 1D:	0.000 m
Q11:	0.00000014	CQ 2D:	0.000 m
Q12:	-0.00000020	CQ 3D:	0.000 m
Q22:	0.00000065		
Q13:	-0.00000009		
Q23:	0.00000028		
Q33:	0.00000029		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.6 - 4.2	GPS SVs:	6/7
Solution Optimisation:	None	PDOP:	1.5 - 2.4	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.6 - 1.0	Beidou SVs:	4/4
		VDOP:	1.4 - 2.2	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

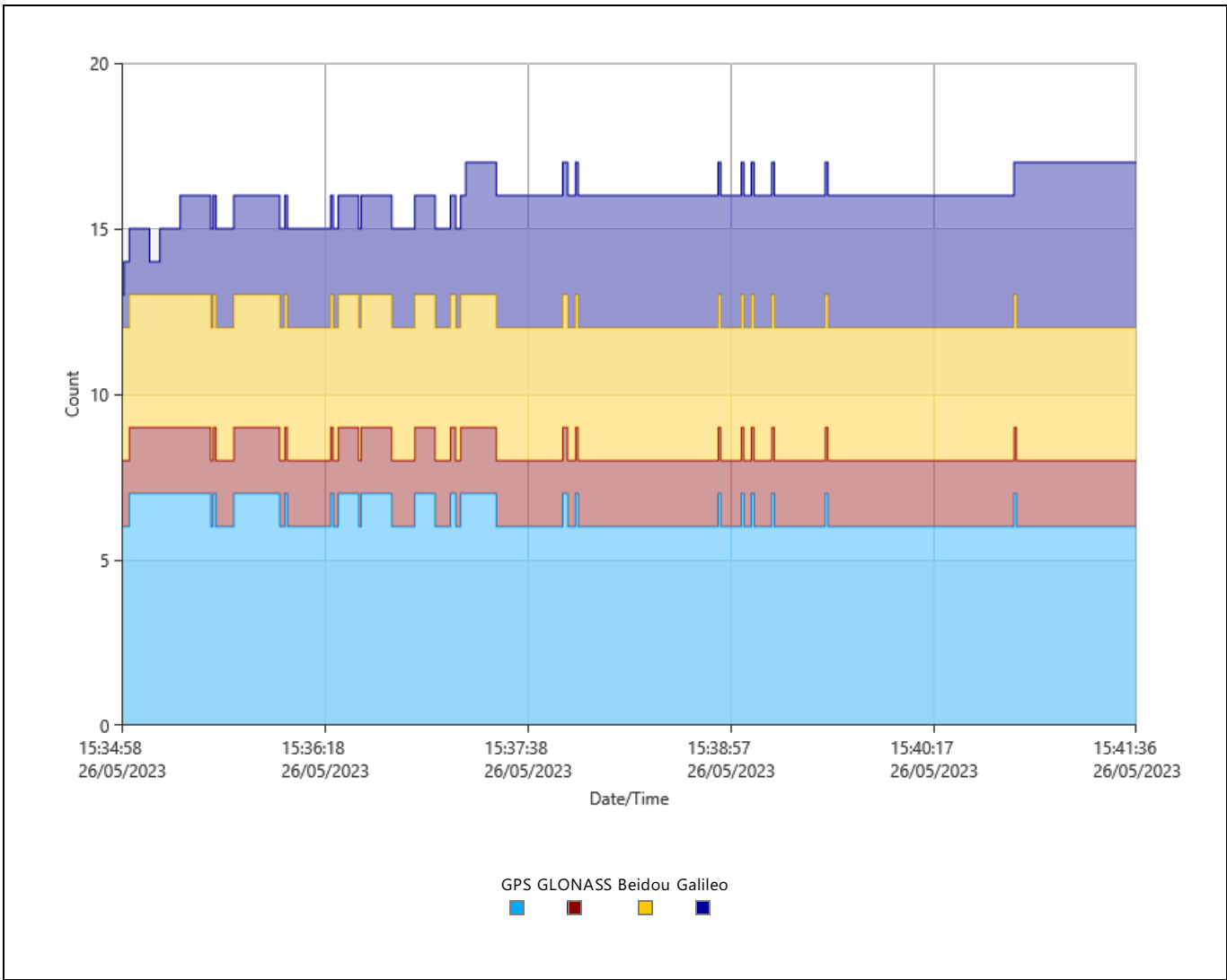
## Processing Info (26/05/2023 15:34:59 - 26/05/2023 15:41:37)

Processed Date/Time: 09/06/2023 17:54:21

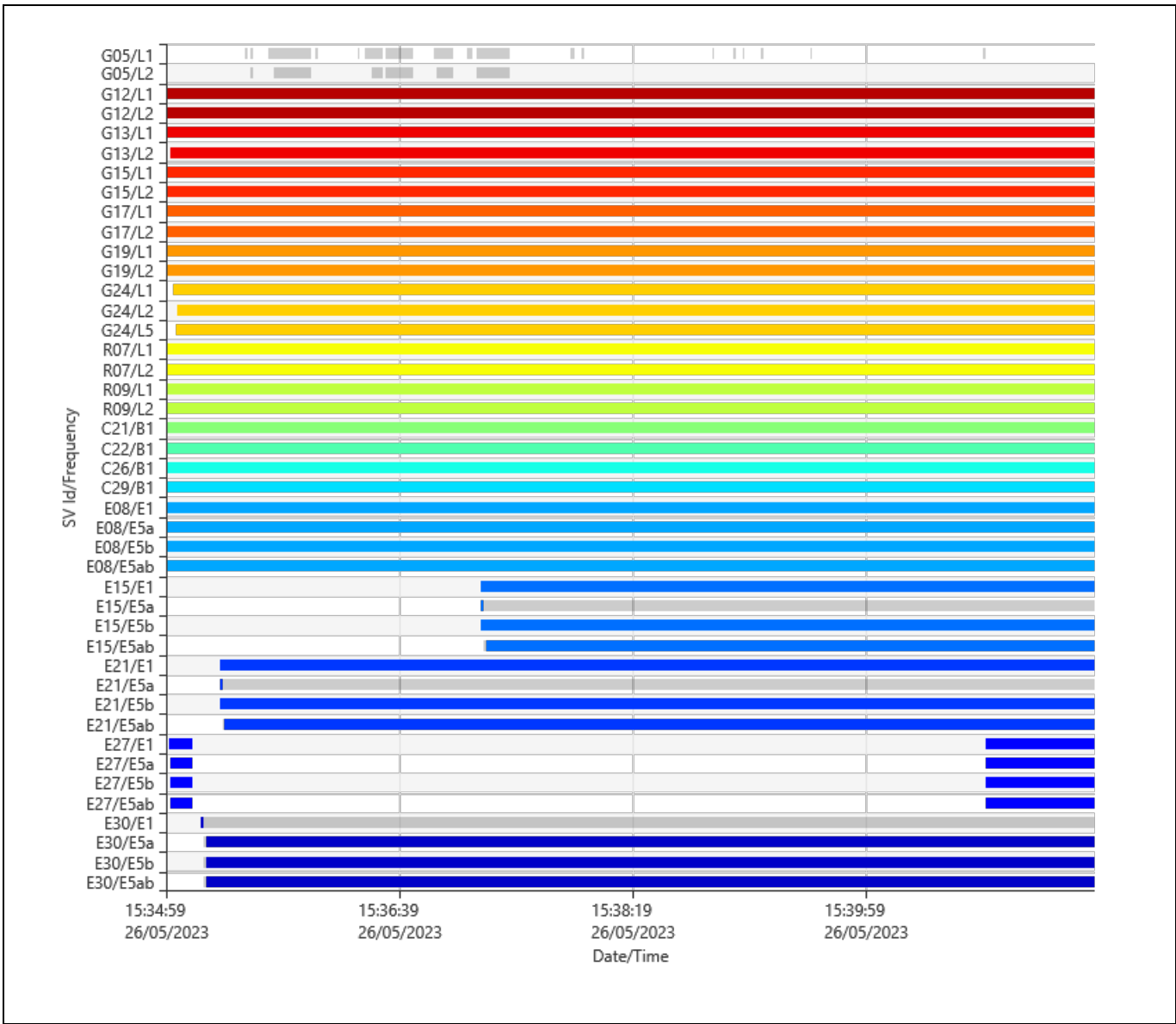
## Satellites

Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G17 G19 G24	-
GLONASS	R07 R09	-
Beidou	C21 C22 C26 C29	-
Galileo	E08 E15 E21 E27 E30	-

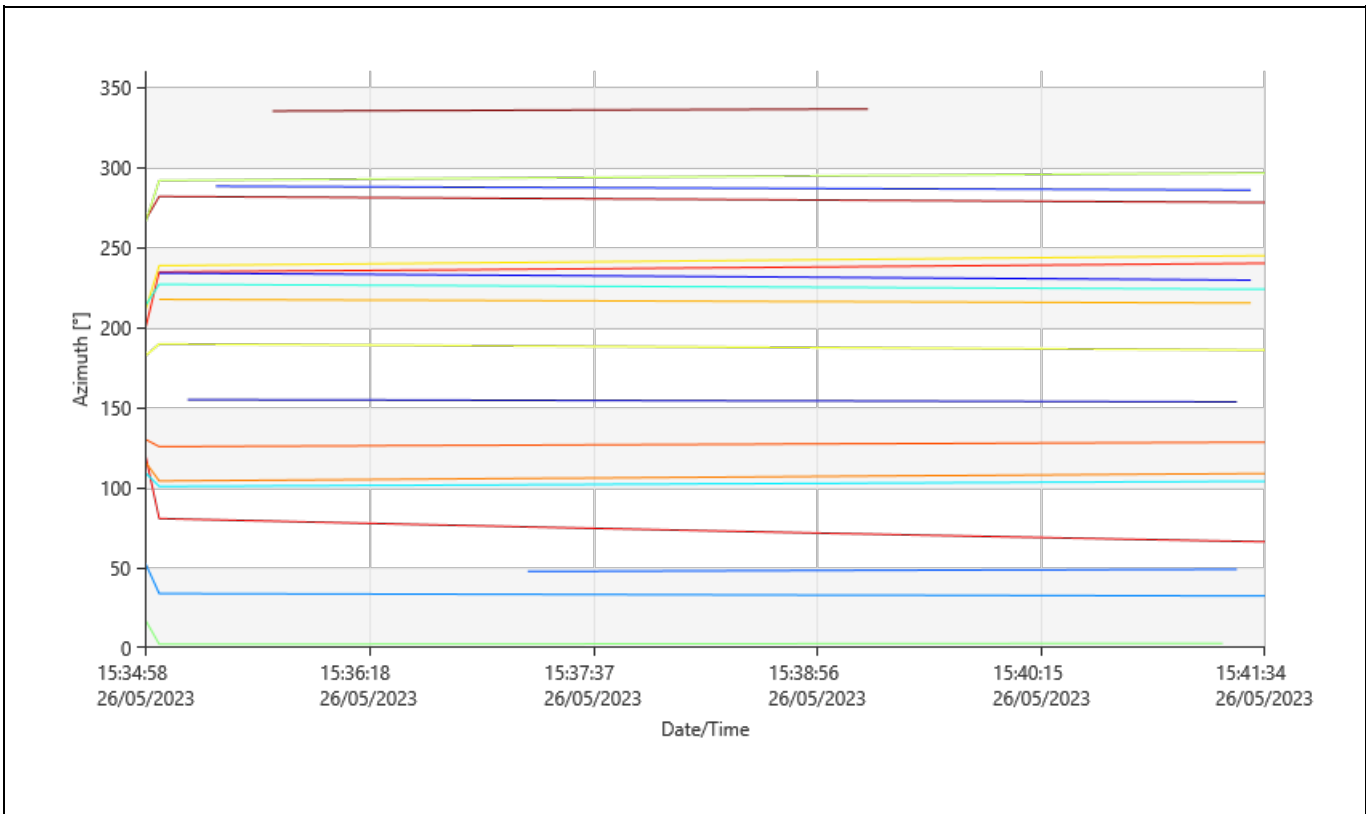
## SVs Tracked



Signals Tracked



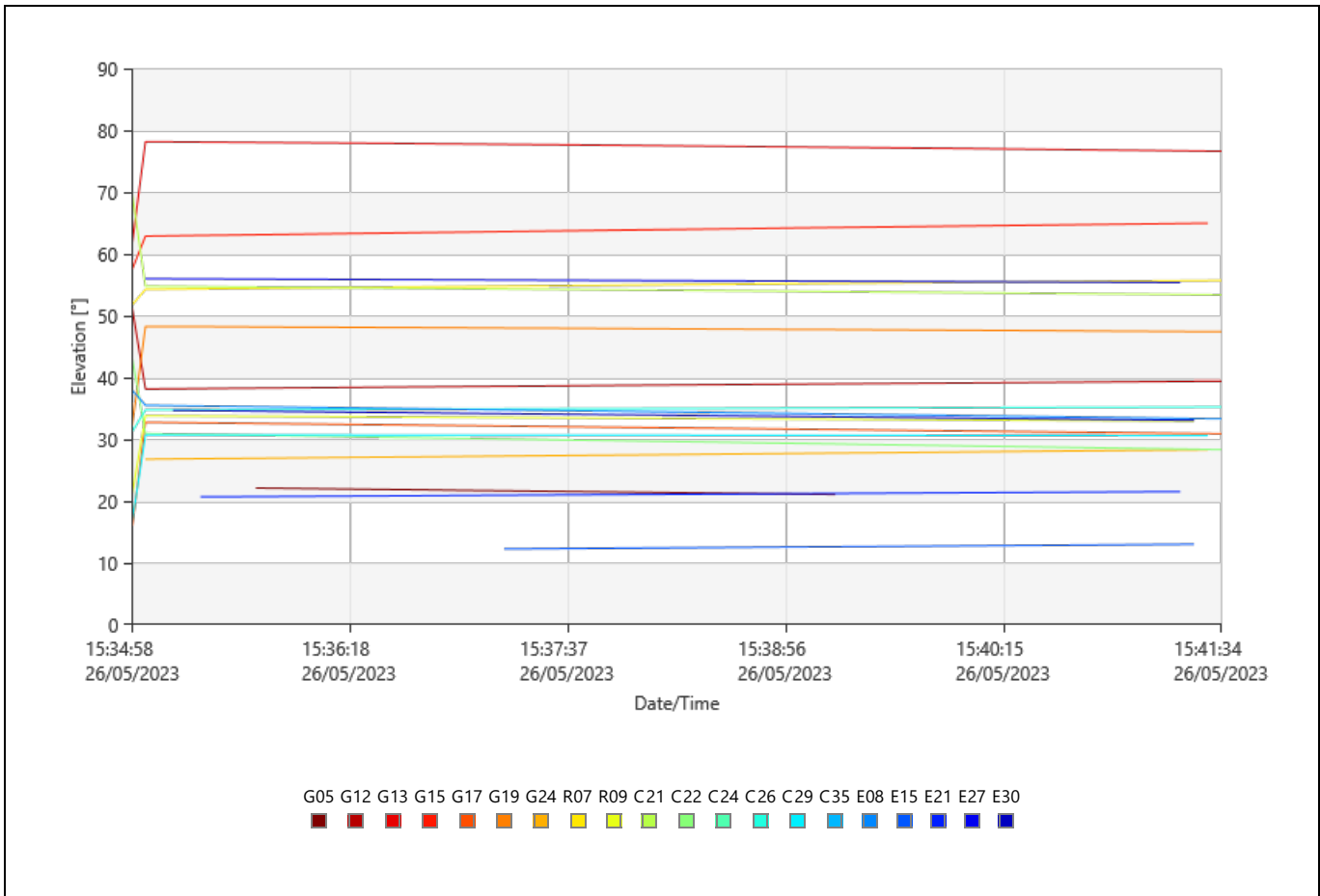
**Azimuth**



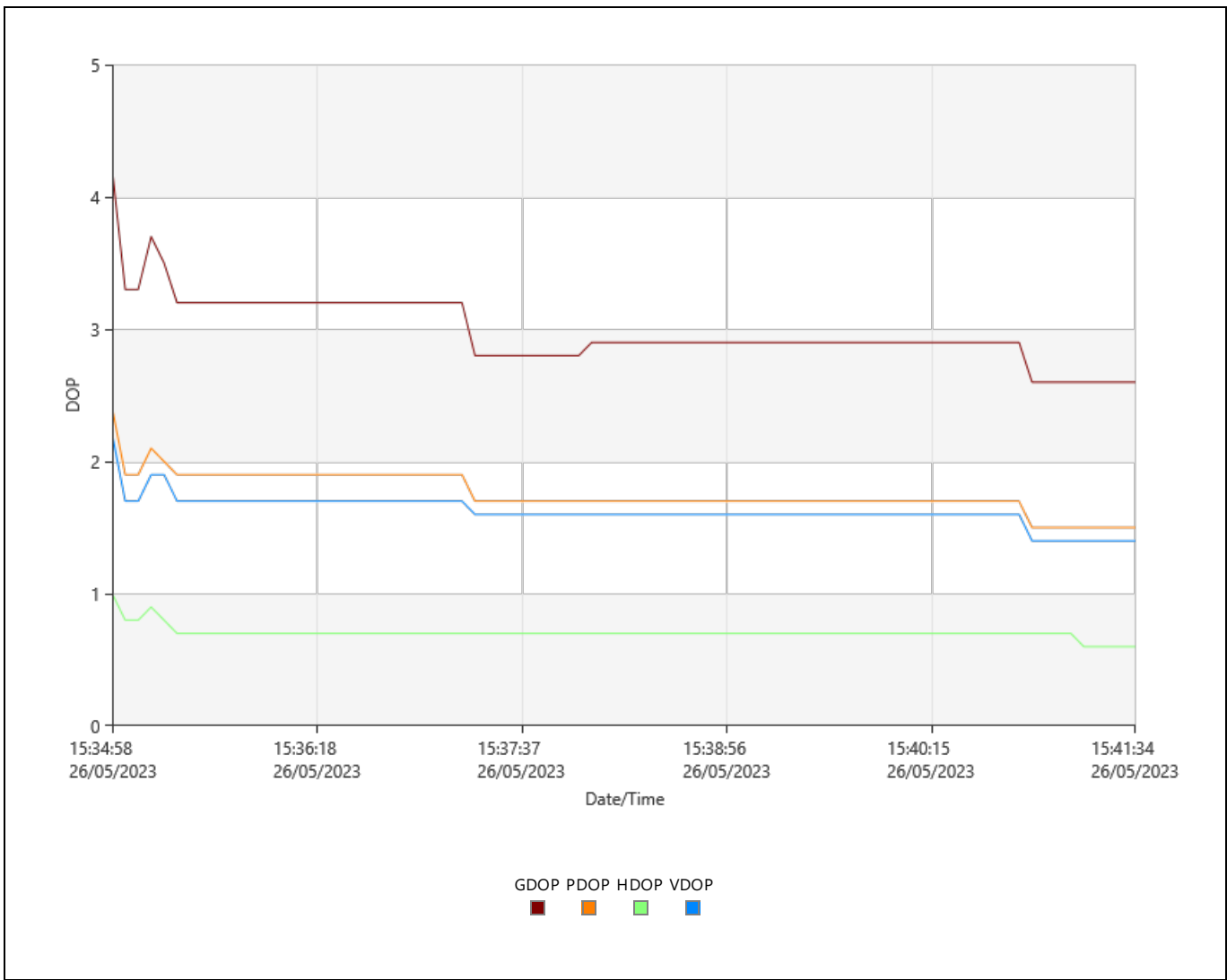


G05 G12 G13 G15 G17 G19 G24 R07 R09 C21 C22 C24 C26 C29 C35 E08 E15 E21 E27 E30

Elevation



DOP



### Observation Statistics

Common Epochs: 399

#### GPS Observations

Frequency	Used	Rejected
L1	2,391	75
L2	2,387	55
L5	395	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	798	0
L2	798	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,596	0

#### Galileo Observations

Frequency	Used	Rejected
E1	1,098	383
E5a	840	639
E5b	1,478	1
E5ab	1,474	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	13	4	4	20
Total	20	4	4	24
Independently fixed	50	50	50	50
Possible independently fixed	50	50	50	50

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.25	97.68	100.00	100.00	100.00	100.00	99.32	99.46	99.46	99.46
Not fixed	0.75	0.08	0.00	0.00	0.00	0.00	0.68	0.54	0.54	0.54
Not fixed - contradiction	0.00	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	26/05/2023 15:34:59	26/05/2023 15:35:12	00:00:13
Fixed	26/05/2023 15:35:12	26/05/2023 15:41:37	00:06:25

## Computed Ionospheric Model

Models: 1  
 Sampling Rate: 30 sec  
 Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 26/05/2023 12:16:22  
 Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 26/05/2023 17:28:42  
 Origin Date/Time: 26/05/2023 12:16:22

Deg. Latitude	Deg. Time	Value	RMS
0	0	3.9515113801	0.0181829654
0	1	0.4544187344	0.0168552325
0	2	-0.4366991399	0.0057915034
1	0	-0.0235264240	0.0110743266
1	1	0.0727132190	0.0070330057

## Residuals

## Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:35:33	No Data
	26/05/2023 15:35:33	26/05/2023 15:35:34	Rejected
	26/05/2023 15:35:34	26/05/2023 15:35:35	No Data
	26/05/2023 15:35:35	26/05/2023 15:35:36	Rejected
	26/05/2023 15:35:36	26/05/2023 15:35:43	No Data
	26/05/2023 15:35:43	26/05/2023 15:36:01	Rejected
	26/05/2023 15:36:01	26/05/2023 15:36:03	No Data
	26/05/2023 15:36:03	26/05/2023 15:36:04	Rejected
	26/05/2023 15:36:04	26/05/2023 15:36:21	No Data
	26/05/2023 15:36:21	26/05/2023 15:36:22	Rejected
	26/05/2023 15:36:22	26/05/2023 15:36:24	No Data
	26/05/2023 15:36:24	26/05/2023 15:36:32	Rejected
	26/05/2023 15:36:32	26/05/2023 15:36:33	No Data
	26/05/2023 15:36:33	26/05/2023 15:36:45	Rejected
	26/05/2023 15:36:45	26/05/2023 15:36:54	No Data
	26/05/2023 15:36:54	26/05/2023 15:37:02	Rejected
	26/05/2023 15:37:02	26/05/2023 15:37:08	No Data
	26/05/2023 15:37:08	26/05/2023 15:37:10	Rejected
	26/05/2023 15:37:10	26/05/2023 15:37:12	No Data
	26/05/2023 15:37:12	26/05/2023 15:37:26	Rejected
	26/05/2023 15:37:26	26/05/2023 15:37:52	No Data
	26/05/2023 15:37:52	26/05/2023 15:37:54	Rejected
	26/05/2023 15:37:54	26/05/2023 15:37:57	No Data
	26/05/2023 15:37:57	26/05/2023 15:37:58	Rejected
	26/05/2023 15:37:58	26/05/2023 15:38:53	No Data
	26/05/2023 15:38:53	26/05/2023 15:38:54	Rejected
	26/05/2023 15:38:54	26/05/2023 15:39:02	No Data
	26/05/2023 15:39:02	26/05/2023 15:39:03	Rejected
	26/05/2023 15:39:03	26/05/2023 15:39:06	No Data
	26/05/2023 15:39:06	26/05/2023 15:39:07	Rejected
	26/05/2023 15:39:07	26/05/2023 15:39:14	No Data
	26/05/2023 15:39:14	26/05/2023 15:39:15	Rejected
	26/05/2023 15:39:15	26/05/2023 15:39:35	No Data
26/05/2023 15:39:35	26/05/2023 15:39:36	Rejected	
26/05/2023 15:39:36	26/05/2023 15:40:49	No Data	
26/05/2023 15:40:49	26/05/2023 15:40:50	Rejected	
26/05/2023 15:40:50	26/05/2023 15:41:37	No Data	
	26/05/2023 15:34:59	26/05/2023 15:35:35	No Data
	26/05/2023 15:35:35	26/05/2023 15:35:36	Rejected
	26/05/2023 15:35:36	26/05/2023 15:35:45	No Data

L2	26/05/2023 15:34:59	26/05/2023 15:35:49	No Data
	26/05/2023 15:35:45	26/05/2023 15:35:49	Rejected
	26/05/2023 15:35:49	26/05/2023 15:35:51	No Data
	26/05/2023 15:35:49	26/05/2023 15:35:51	Rejected
	26/05/2023 15:35:51	26/05/2023 15:36:00	No Data
	26/05/2023 15:35:51	26/05/2023 15:36:00	Rejected
	26/05/2023 15:36:00	26/05/2023 15:36:01	Rejected
	26/05/2023 15:36:01	26/05/2023 15:36:27	No Data
	26/05/2023 15:36:00	26/05/2023 15:36:28	No Data
	26/05/2023 15:36:27	26/05/2023 15:36:28	Rejected
	26/05/2023 15:36:28	26/05/2023 15:36:30	No Data
	26/05/2023 15:36:28	26/05/2023 15:36:30	Rejected
	26/05/2023 15:36:30	26/05/2023 15:36:32	Rejected
	26/05/2023 15:36:30	26/05/2023 15:36:33	No Data
	26/05/2023 15:36:32	26/05/2023 15:36:38	No Data
	26/05/2023 15:36:33	26/05/2023 15:36:38	Rejected
	26/05/2023 15:36:38	26/05/2023 15:36:39	No Data
	26/05/2023 15:36:38	26/05/2023 15:36:39	Rejected
	26/05/2023 15:36:39	26/05/2023 15:36:40	No Data
	26/05/2023 15:36:39	26/05/2023 15:36:40	Rejected
	26/05/2023 15:36:40	26/05/2023 15:36:42	No Data
	26/05/2023 15:36:40	26/05/2023 15:36:42	Rejected
	26/05/2023 15:36:42	26/05/2023 15:36:45	Rejected
	26/05/2023 15:36:45	26/05/2023 15:36:55	No Data
	26/05/2023 15:36:42	26/05/2023 15:36:59	No Data
	26/05/2023 15:36:55	26/05/2023 15:36:59	Rejected
	26/05/2023 15:36:59	26/05/2023 15:37:00	No Data
	26/05/2023 15:36:59	26/05/2023 15:37:00	Rejected
	26/05/2023 15:37:00	26/05/2023 15:37:02	Rejected
	26/05/2023 15:37:00	26/05/2023 15:37:12	No Data
	26/05/2023 15:37:02	26/05/2023 15:37:13	No Data
	26/05/2023 15:37:12	26/05/2023 15:37:13	Rejected
	26/05/2023 15:37:13	26/05/2023 15:37:15	No Data
26/05/2023 15:37:13	26/05/2023 15:37:15	Rejected	
26/05/2023 15:37:15	26/05/2023 15:37:16	No Data	
26/05/2023 15:37:15	26/05/2023 15:37:16	Rejected	
26/05/2023 15:37:16	26/05/2023 15:37:26	Rejected	
26/05/2023 15:37:16	26/05/2023 15:41:37	No Data	
26/05/2023 15:37:26	26/05/2023 15:41:37	No Data	

G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:34:59	26/05/2023 15:35:01	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	No Data

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:35:01	26/05/2023 15:41:37	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:34:59	26/05/2023 15:35:01	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	No Data

G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:34:59	26/05/2023 15:35:01	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	Used
	26/05/2023 15:35:01	26/05/2023 15:41:37	No Data

## G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

## G24

Frequency	From Epoch	To Epoch	Status
L1	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:02</b>	<b>No Data</b>
	26/05/2023 15:35:02	26/05/2023 15:41:37	Used
L2	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:04</b>	<b>No Data</b>
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:07</b>	<b>No Data</b>
	26/05/2023 15:35:04	26/05/2023 15:35:07	Used
	26/05/2023 15:35:07	26/05/2023 15:41:37	Used
L5	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:03</b>	<b>No Data</b>
	26/05/2023 15:35:03	26/05/2023 15:41:37	Used

## R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

## R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
L2	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

## E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
E5a	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
E5b	26/05/2023 15:34:59	26/05/2023 15:41:37	Used
E5ab	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

## E15

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:37:14</b>	<b>No Data</b>
	26/05/2023 15:37:14	26/05/2023 15:41:37	Used
E5a	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:37:14</b>	<b>No Data</b>
	26/05/2023 15:37:14	26/05/2023 15:37:15	Used
E5b	<b>26/05/2023 15:37:15</b>	<b>26/05/2023 15:41:37</b>	<b>Rejected</b>
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:37:14</b>	<b>No Data</b>
E5ab	26/05/2023 15:37:14	26/05/2023 15:41:37	Used
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:37:15</b>	<b>No Data</b>
	<b>26/05/2023 15:37:15</b>	<b>26/05/2023 15:37:16</b>	<b>Rejected</b>
	26/05/2023 15:37:16	26/05/2023 15:41:37	Used

## E21

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:22</b>	<b>No Data</b>
	26/05/2023 15:35:22	26/05/2023 15:41:37	Used
E5a	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:22</b>	<b>No Data</b>
	26/05/2023 15:35:22	26/05/2023 15:35:23	Used
E5b	<b>26/05/2023 15:35:23</b>	<b>26/05/2023 15:41:37</b>	<b>Rejected</b>
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:22</b>	<b>No Data</b>
E5ab	26/05/2023 15:35:22	26/05/2023 15:41:37	Used
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:23</b>	<b>No Data</b>
	<b>26/05/2023 15:35:23</b>	<b>26/05/2023 15:35:24</b>	<b>Rejected</b>
	26/05/2023 15:35:24	26/05/2023 15:41:37	Used

## E27

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:00</b>	<b>No Data</b>
	26/05/2023 15:35:00	26/05/2023 15:35:10	Used
	<b>26/05/2023 15:35:10</b>	<b>26/05/2023 15:40:50</b>	<b>No Data</b>
	26/05/2023 15:40:50	26/05/2023 15:41:37	Used
	<b>26/05/2023 15:34:59</b>	<b>26/05/2023 15:35:01</b>	<b>No Data</b>
	26/05/2023 15:35:01	26/05/2023 15:35:10	Used

E5a	26/05/2023 15:35:10	26/05/2023 15:40:50	No Data
	26/05/2023 15:40:50	26/05/2023 15:41:37	Used
E5b	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:35:01	26/05/2023 15:35:10	Used
	26/05/2023 15:35:10	26/05/2023 15:40:50	No Data
E5ab	26/05/2023 15:40:50	26/05/2023 15:41:37	Used
	26/05/2023 15:34:59	26/05/2023 15:35:01	No Data
	26/05/2023 15:35:01	26/05/2023 15:35:10	Used
	26/05/2023 15:35:10	26/05/2023 15:40:50	No Data
	26/05/2023 15:40:50	26/05/2023 15:41:37	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:34:59	26/05/2023 15:35:14	No Data
	26/05/2023 15:35:14	26/05/2023 15:35:15	Used
	26/05/2023 15:35:15	26/05/2023 15:41:37	Rejected
E5a	26/05/2023 15:34:59	26/05/2023 15:35:15	No Data
	26/05/2023 15:35:15	26/05/2023 15:35:16	Rejected
	26/05/2023 15:35:16	26/05/2023 15:41:37	Used
E5b	26/05/2023 15:34:59	26/05/2023 15:35:15	No Data
	26/05/2023 15:35:15	26/05/2023 15:35:16	Rejected
	26/05/2023 15:35:16	26/05/2023 15:41:37	Used
E5ab	26/05/2023 15:34:59	26/05/2023 15:35:15	No Data
	26/05/2023 15:35:15	26/05/2023 15:35:16	Rejected
	26/05/2023 15:35:16	26/05/2023 15:41:37	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:34:59	26/05/2023 15:41:37	Used

Cycle Slips

Slip Count: 4

SV	Frequency	Epoch	Slip Value	Flag
G05	L2	26/05/2023 15:37:00	-	RIA
		26/05/2023 15:37:16	-	RIA
		26/05/2023 15:37:22	-	RIA
		26/05/2023 15:37:24	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

Processing Messages

Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

**Baseline MOQ01058 - PAF-CU2-02D**

**Processing Parameters (26/05/2023 15:48:06 - 26/05/2023 15:53:35)**

Cut-Off Angle: 10° 10°  
 Frequency: Automatic L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a  
 Sampling Rate: Use All 1.00 sec  
 Satellite System: GPS/GLONASS/Galileo/Beidou GPS/GLONASS/Galileo/Beidou  
 Ephemeris Type: Precise Precise  
 Antenna Calibration Set: NGS Absolute NGS Absolute

**Processing Strategy**

Solution Type: Phase Fixed Phase Fixed  
 Solution Optimisation: Automatic None  
 Frequency to use in Ionosphere Minimised: Automatic Automatic  
 Tropospheric Model: VMF with GPT2 model VMF with GPT2 model  
 Ionospheric Model: Automatic None  
 Allow Widelane Fix: Automatic Automatic

**General Settings**

Min. Distance for Ionosphere Minimised: 15 km  
 Possible Ambiguities Fix up to: 300 km  
 Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
 Time System: Local Time  
 Leap Seconds: 18

**Results Baseline: MOQ01058 - PAF-CU2-02D**

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**Acquisition**

Start Time - End Time: 26/05/2023 15:48:06 - 26/05/2023 15:53:35  
 Duration: 00:05:29

**Antennas**

	Reference - MOQ01058	Rover - PAF-CU2-02D
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-02D	Reference - MOQ01058	Rover - PAF-CU2-02D
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 04' 03.41053" S	Easting:	318,107.441 m 314,354.884 m
WGS84 Longitude:	-	70° 44' 40.12218" W	Northing:	8,117,307.121 m 8,112,135.476 m
WGS84 Ellip. Height:	-	3,570.470 m	Ortho. Height:	3,897.429 m 3,529.736 m
WGS84 Cartesian X:	-	2,012,462.665 m		
WGS84 Cartesian Y:	-	-5,761,024.286 m		
WGS84 Cartesian Z:	-	-1,861,035.905 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 47.14152"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 08.43174"	SD ΔLongitude:	0.000 m
ΔHeight:	-368.441 m	SD ΔHeight:	0.000 m
ΔX:	-4,200.968 m	SD ΔX:	0.000 m
ΔY:	500.643 m	SD ΔY:	0.000 m
ΔZ:	-4,807.430 m	SD ΔZ:	0.000 m
Slope Dist.:	6,403.918 m	SD Slope Dist.:	0.000 m

M0:	0.562 m	CQ 1D:	0.000 m
Q11:	0.00000013	CQ 2D:	0.000 m
Q12:	-0.00000014	CQ 3D:	0.000 m
Q22:	0.00000045		
Q13:	-0.00000005		
Q23:	0.00000014		
Q33:	0.00000017		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 2.6	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.2 - 1.4	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.0 - 1.2	Galileo SVs:	4/4
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (26/05/2023 15:48:06 - 26/05/2023 15:53:35)

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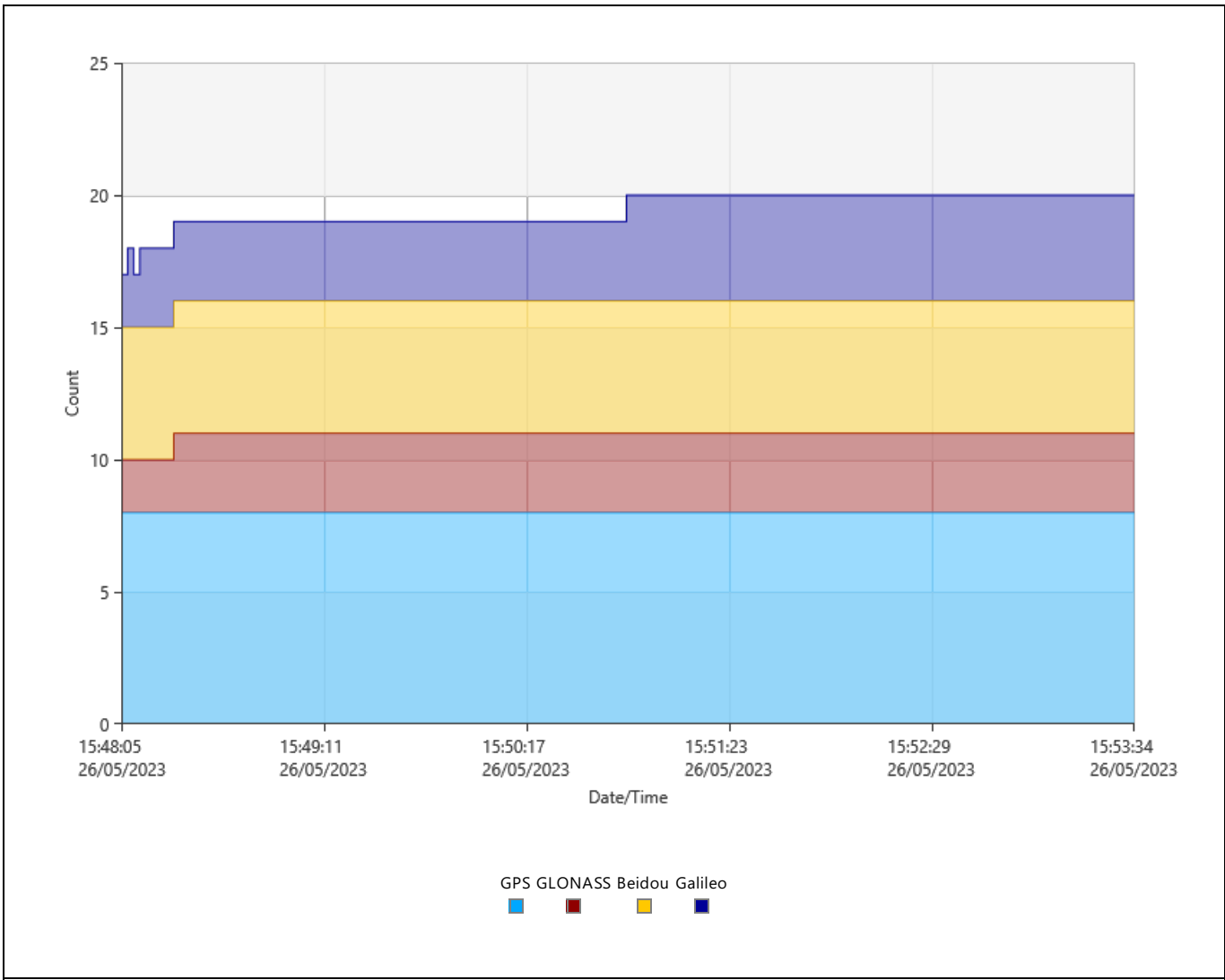
Processed Date/Time: 09/06/2023 17:54:21

### Satellites

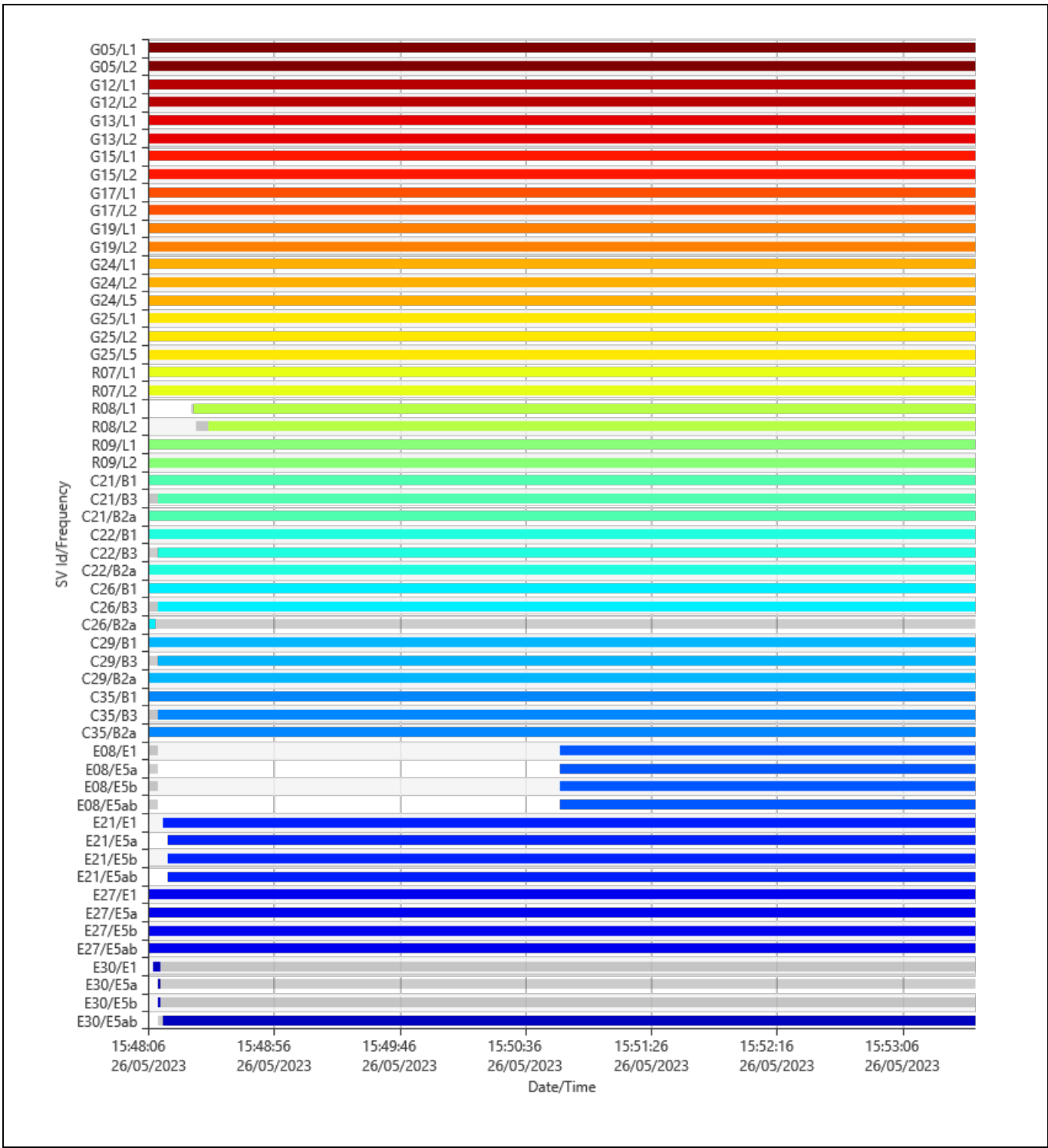
Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R07 R08 R09	-
Beidou	C21 C22 C26 C29 C35	-
Galileo	E08 E21 E27 E30	-

### SVs Tracked



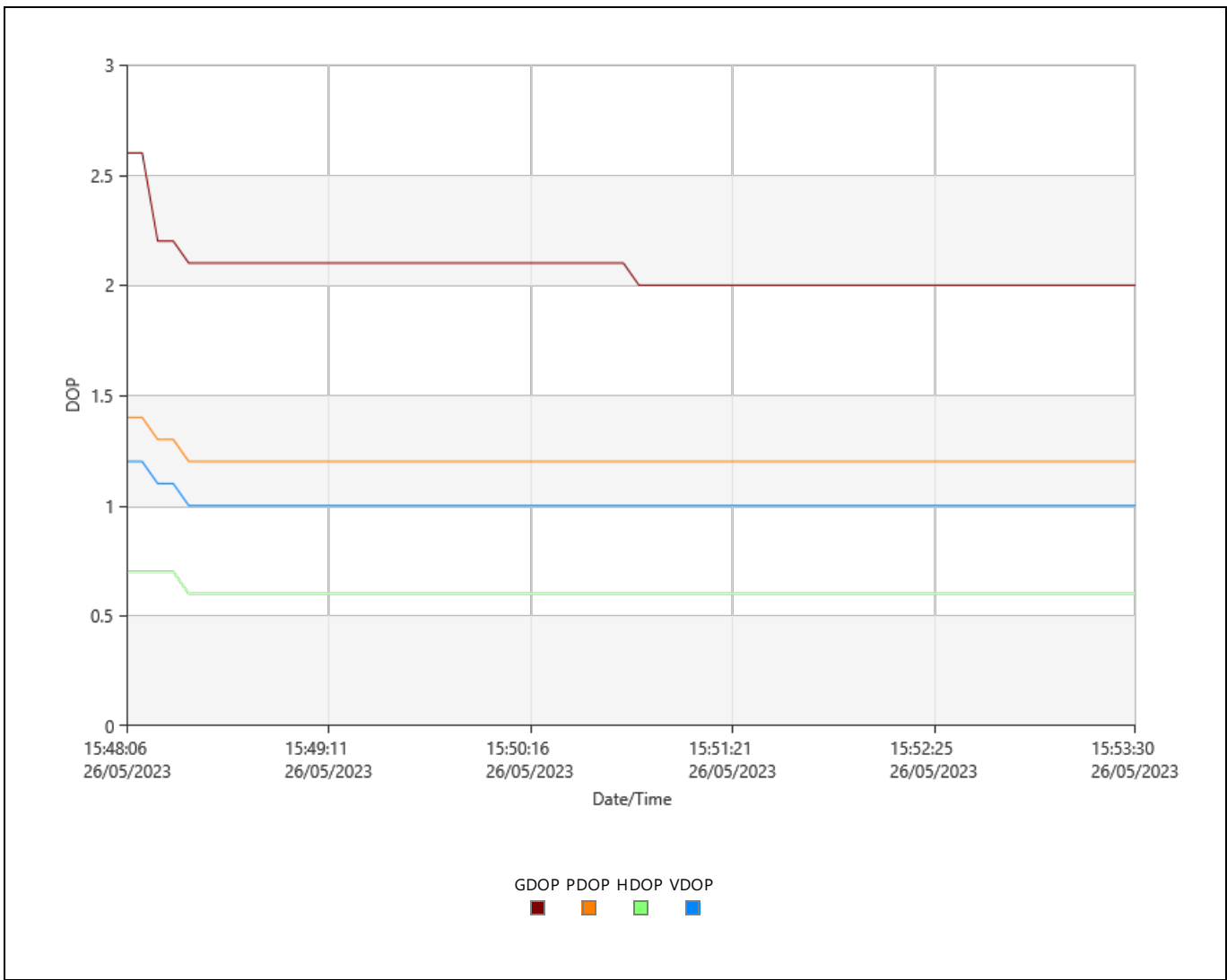


**Signals Tracked**



Azimuth





### Observation Statistics

Common Epochs: 330

#### GPS Observations

Frequency	Used	Rejected
L1	2,640	0
L2	2,640	0
L5	660	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	972	1
L2	966	5

#### Beidou Observations

Frequency	Used	Rejected
B1	1,650	0
B3	1,630	20
B2a	1,323	327

#### Galileo Observations

Frequency	Used	Rejected
E1	823	329
E5a	819	329
E5b	819	329
E5ab	1,142	6

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	18	6	15	16
Total	18	6	15	21
Independently fixed	41	41	41	41
Possible independently fixed	41	41	41	41

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.65	99.65	99.65	99.48
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.52
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 15:48:06	26/05/2023 15:53:35	00:05:29

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L5	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L5	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

#### R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:48:23	No Data
	26/05/2023 15:48:23	26/05/2023 15:48:24	Rejected
	26/05/2023 15:48:24	26/05/2023 15:53:35	Used
L2	26/05/2023 15:48:06	26/05/2023 15:48:25	No Data
	26/05/2023 15:48:25	26/05/2023 15:48:30	Rejected
	26/05/2023 15:48:30	26/05/2023 15:53:35	Used

#### R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

L2	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
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E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:50:50	No Data
	26/05/2023 15:50:50	26/05/2023 15:53:35	Used
E5a	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:50:50	No Data
	26/05/2023 15:50:50	26/05/2023 15:53:35	Used
E5b	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:50:50	No Data
	26/05/2023 15:50:50	26/05/2023 15:53:35	Used
E5ab	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:50:50	No Data
	26/05/2023 15:50:50	26/05/2023 15:53:35	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:48:06	26/05/2023 15:48:12	No Data
	26/05/2023 15:48:12	26/05/2023 15:53:35	Used
E5a	26/05/2023 15:48:06	26/05/2023 15:48:14	No Data
	26/05/2023 15:48:14	26/05/2023 15:53:35	Used
E5b	26/05/2023 15:48:06	26/05/2023 15:48:14	No Data
	26/05/2023 15:48:14	26/05/2023 15:53:35	Used
E5ab	26/05/2023 15:48:06	26/05/2023 15:48:14	No Data
	26/05/2023 15:48:14	26/05/2023 15:53:35	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
E5a	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
E5b	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
E5ab	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:48:06	26/05/2023 15:48:08	No Data
	26/05/2023 15:48:08	26/05/2023 15:48:11	Used
	26/05/2023 15:48:11	26/05/2023 15:53:35	Rejected
E5a	26/05/2023 15:48:06	26/05/2023 15:48:10	No Data
	26/05/2023 15:48:10	26/05/2023 15:48:11	Used
	26/05/2023 15:48:11	26/05/2023 15:53:35	Rejected
E5b	26/05/2023 15:48:06	26/05/2023 15:48:10	No Data
	26/05/2023 15:48:10	26/05/2023 15:48:11	Used
	26/05/2023 15:48:11	26/05/2023 15:53:35	Rejected
E5ab	26/05/2023 15:48:06	26/05/2023 15:48:10	No Data
	26/05/2023 15:48:10	26/05/2023 15:48:12	Rejected
	26/05/2023 15:48:12	26/05/2023 15:53:35	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
B3	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:53:35	Used
B2a	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
B3	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:53:35	Used
B2a	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
B3	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected

	26/05/2023 15:48:10	26/05/2023 15:53:35	Used
B2a	26/05/2023 15:48:06	26/05/2023 15:48:09	Used
	26/05/2023 15:48:09	26/05/2023 15:53:35	Rejected

## C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
B3	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:53:35	Used
B2a	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

## C35

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:48:06	26/05/2023 15:53:35	Used
B3	26/05/2023 15:48:06	26/05/2023 15:48:10	Rejected
	26/05/2023 15:48:10	26/05/2023 15:53:35	Used
B2a	26/05/2023 15:48:06	26/05/2023 15:53:35	Used

## Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
E30	E5ab	26/05/2023 15:48:12	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

# Baseline MOQ01058 - PAF-CU2-4C

## Processing Parameters (26/05/2023 15:49:04 - 26/05/2023 15:56:40)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
--------------	----------

Time System: Local Time  
Leap Seconds: 18

## Results Baseline: MOQ01058 - PAF-CU2-4C

### Acquisition

Start Time - End Time: 26/05/2023 15:49:04 - 26/05/2023 15:56:40  
Duration: 00:07:36

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-4C
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-4C		Reference - MOQ01058	Rover - PAF-CU2-4C
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 28.19314" S	Easting:	318,107.441 m	314,357.538 m
WGS84 Longitude:	-	70° 44' 39.70525" W	Northing:	8,117,307.121 m	8,113,218.212 m
WGS84 Ellip. Height:	-	3,622.522 m	Ortho. Height:	3,897.429 m	3,581.695 m
WGS84 Cartesian X:	-	2,012,595.541 m			
WGS84 Cartesian Y:	-	-5,761,367.260 m			
WGS84 Cartesian Z:	-	-1,860,015.604 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 11.92413"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 08.01480"	SD ΔLongitude:	0.000 m
ΔHeight:	-316.389 m	SD ΔHeight:	0.000 m
ΔX:	-4,068.092 m	SD ΔX:	0.000 m
ΔY:	157.668 m	SD ΔY:	0.000 m
ΔZ:	-3,787.129 m	SD ΔZ:	0.000 m
Slope Dist.:	5,560.268 m	SD Slope Dist.:	0.000 m

M0:	0.430 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000011	CQ 3D:	0.000 m
Q22:	0.00000038		
Q13:	-0.00000003		
Q23:	0.00000009		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.9 - 2.4	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.2 - 1.4	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	4/4
		VDOP:	1.0 - 1.2	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:  
GPS Precise



GLONASS	Precise
Beidou	Precise
Galileo	Precise

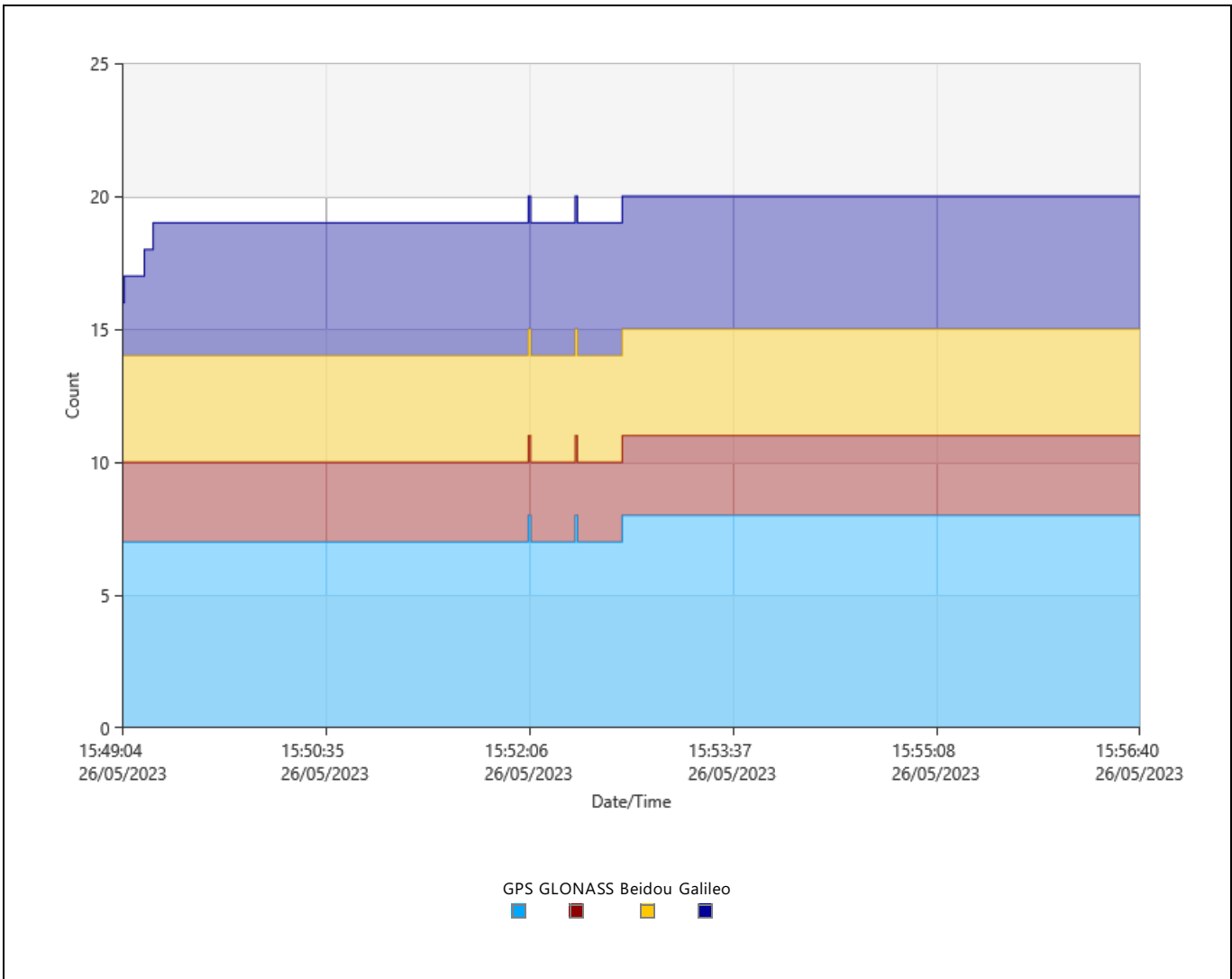
### Processing Info (26/05/2023 15:49:04 - 26/05/2023 15:56:40)

Processed Date/Time: 09/06/2023 17:54:21

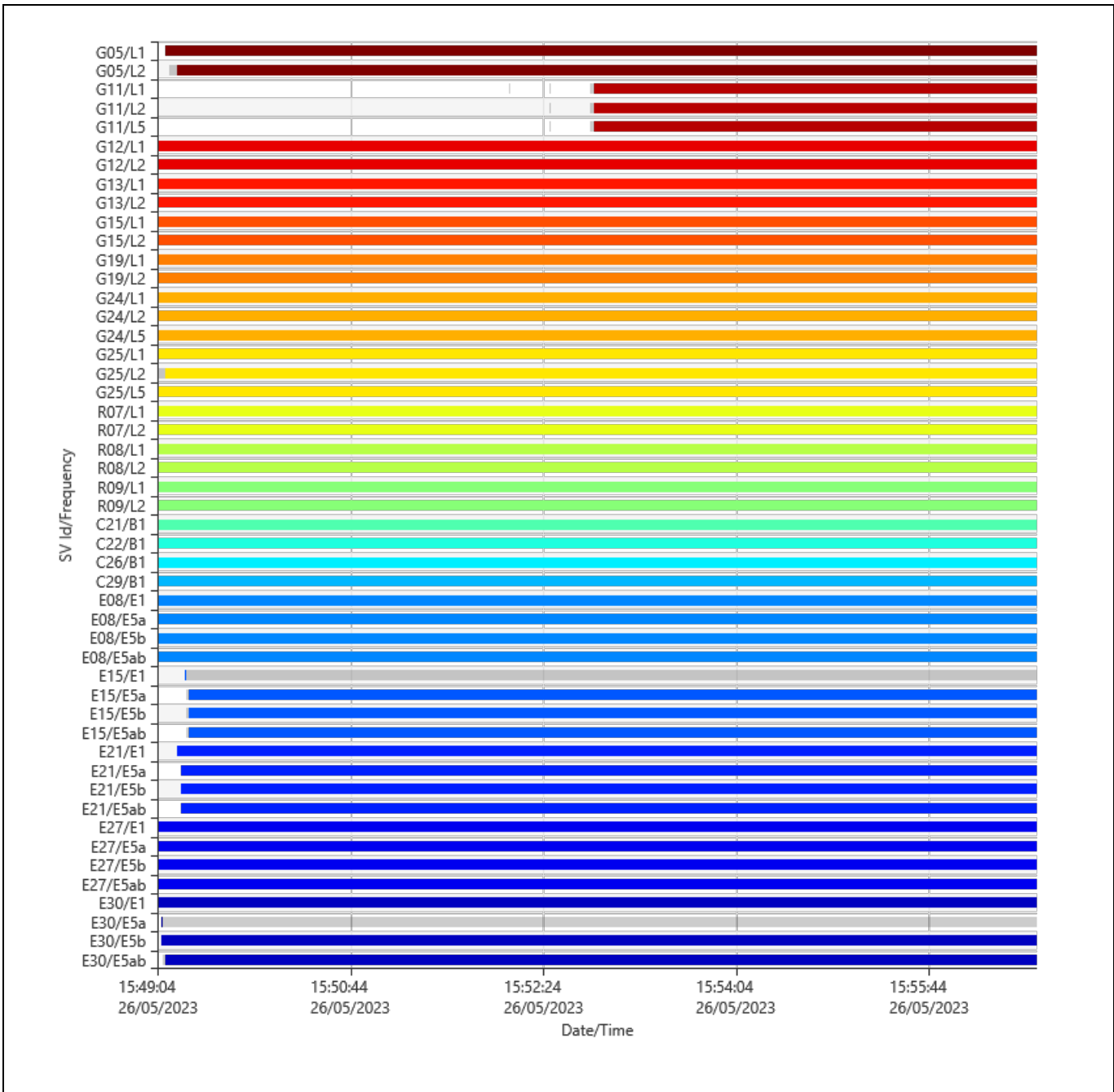
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G11 G12 G13 G15 G19 G24 G25	-
GLONASS	R07 R08 R09	-
Beidou	C21 C22 C26 C29	-
Galileo	E08 E15 E21 E27 E30	-

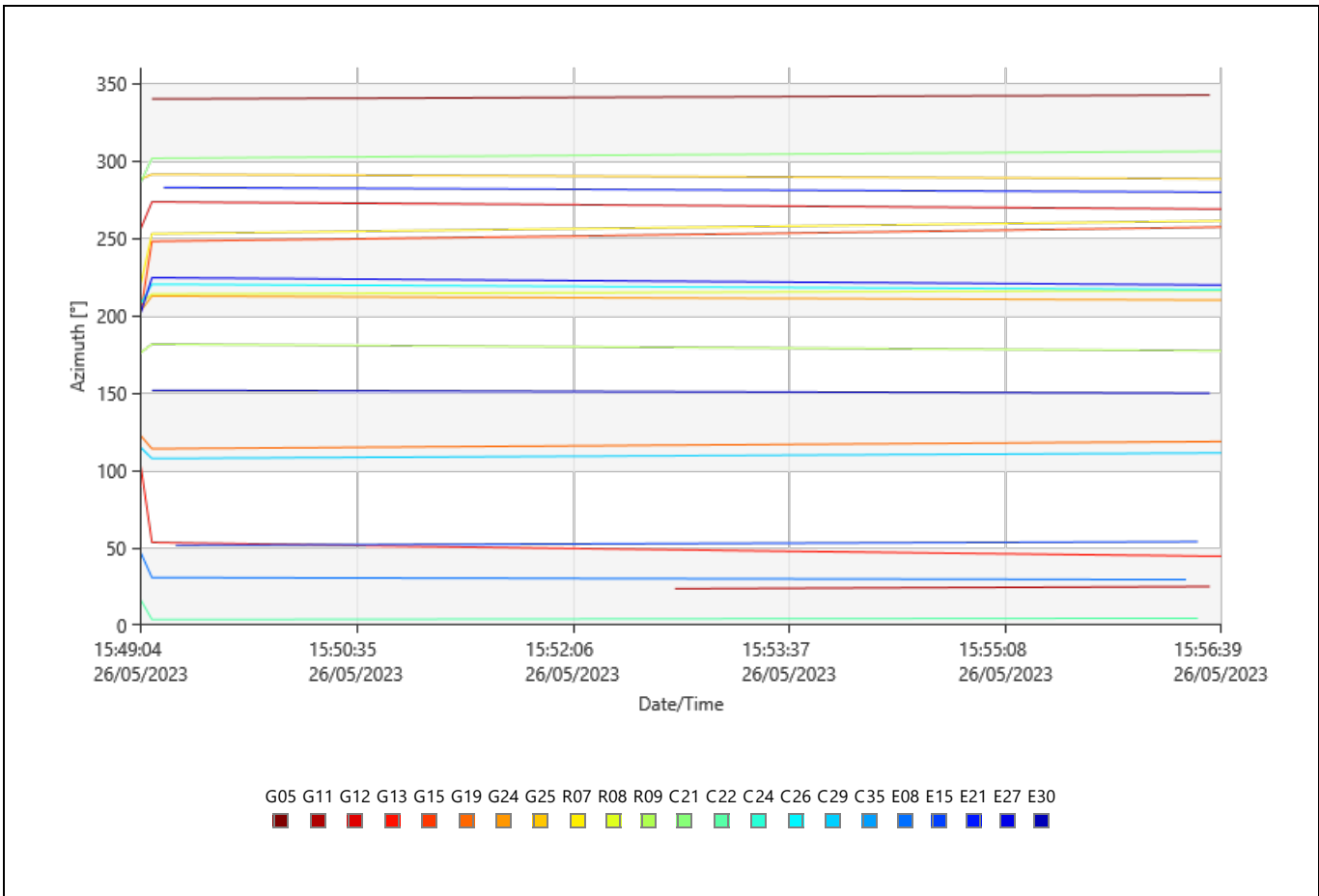
### SVs Tracked



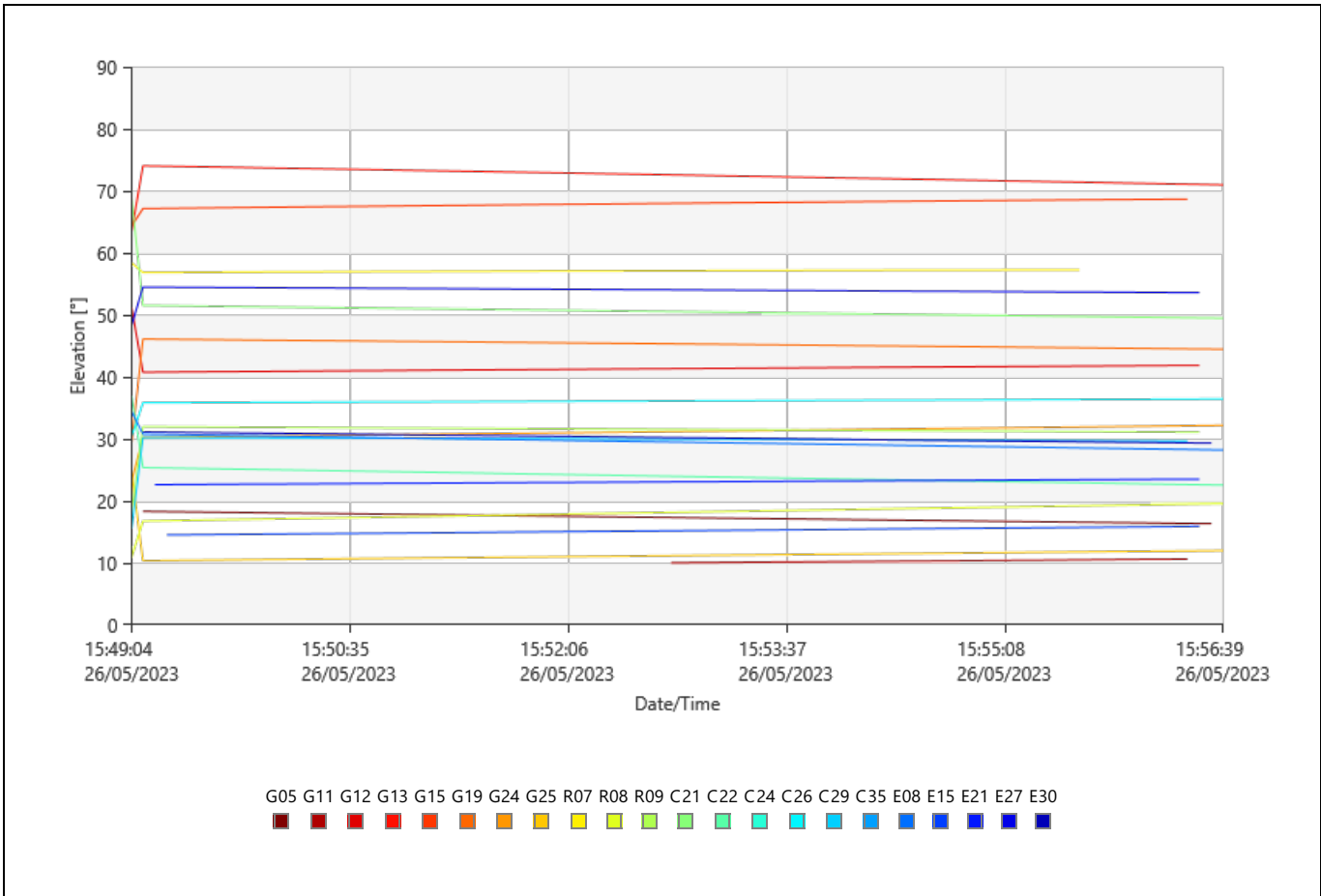
### Signals Tracked



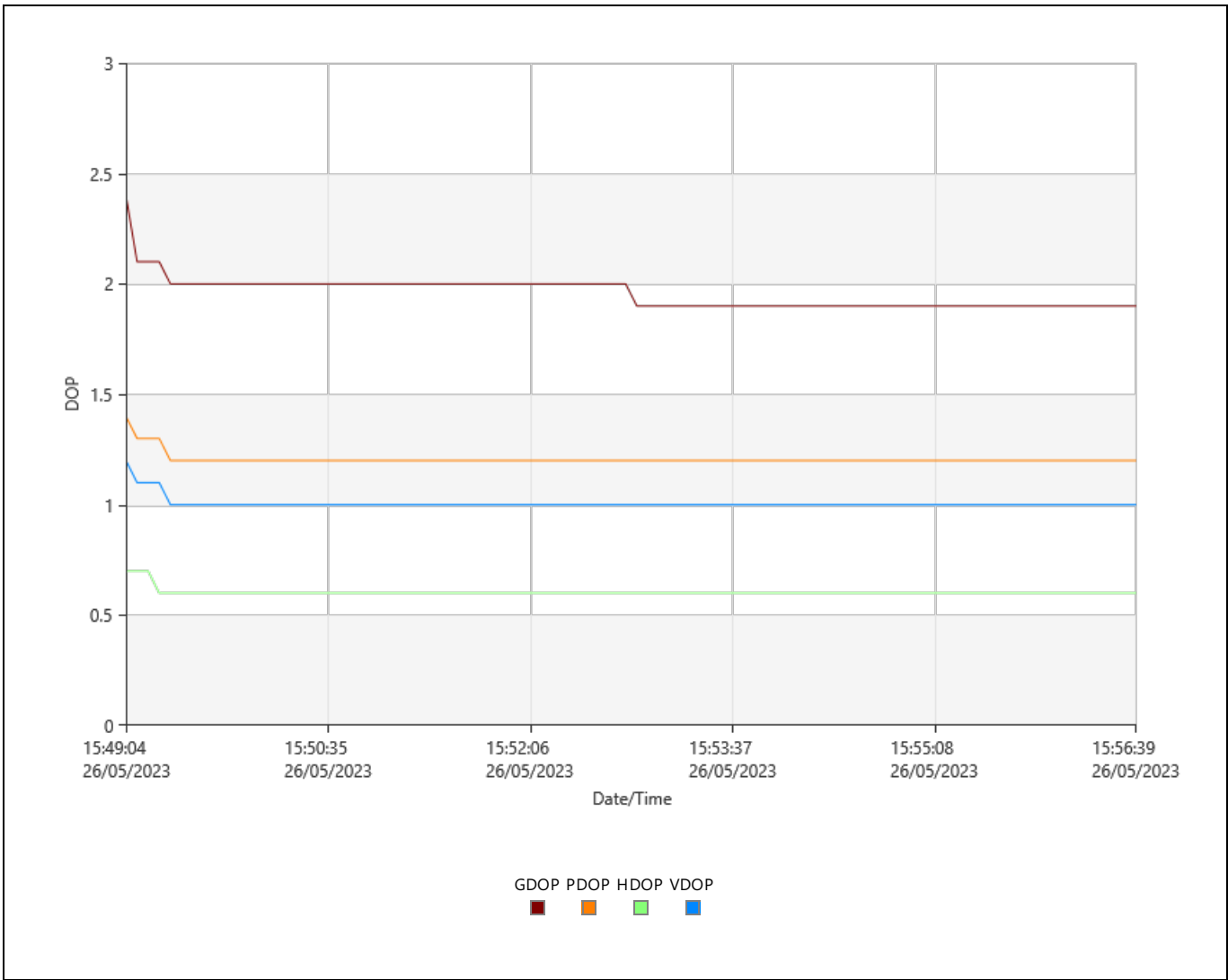
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 457

#### GPS Observations

Frequency	Used	Rejected
L1	3,426	4
L2	3,416	11
L5	1,145	3

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,371	0
L2	1,371	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,828	0

#### Galileo Observations

Frequency	Used	Rejected
E1	1,818	442
E5a	1,801	455
E5b	2,255	1
E5ab	2,253	2

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	19	6	4	20
Total	22	6	4	20
Independently fixed	57	57	57	57
Possible independently fixed	57	57	57	57

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.94	99.94	99.83	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Not fixed	0.06	0.06	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 15:49:04	26/05/2023 15:56:40	00:07:36

## Computed Ionospheric Model

Models: 1  
Sampling Rate: 30 sec  
Height of Single Layer: 350 km

### Model 1

Origin Latitude: 17° 01' 16.26901" S Valid from Epoch: 26/05/2023 12:16:22  
Origin Longitude: 70° 42' 31.69045" W Valid until Epoch: 26/05/2023 17:28:42  
Origin Date/Time: 26/05/2023 12:16:22

Deg. Latitude	Deg. Time	Value	RMS
0	0	3.9515113801	0.0181829654
0	1	0.4544187344	0.0168552325
0	2	-0.4366991399	0.0057915034
1	0	-0.0235264240	0.0110743266
1	1	0.0727132190	0.0070330057

### Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:49:08	No Data
	26/05/2023 15:49:08	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:49:10	No Data
	26/05/2023 15:49:04	26/05/2023 15:49:13	No Data
	26/05/2023 15:49:10	26/05/2023 15:49:13	Rejected
	26/05/2023 15:49:13	26/05/2023 15:49:14	Rejected
	26/05/2023 15:49:14	26/05/2023 15:56:40	Used
	26/05/2023 15:49:13	26/05/2023 15:56:40	No Data

#### G11

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:52:06	No Data
	26/05/2023 15:52:06	26/05/2023 15:52:07	Rejected
	26/05/2023 15:52:07	26/05/2023 15:52:27	No Data
	26/05/2023 15:52:27	26/05/2023 15:52:28	Rejected
	26/05/2023 15:52:28	26/05/2023 15:52:48	No Data
	26/05/2023 15:52:48	26/05/2023 15:52:50	Rejected
	26/05/2023 15:52:50	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:52:27	No Data
	26/05/2023 15:52:27	26/05/2023 15:52:28	Rejected
	26/05/2023 15:52:28	26/05/2023 15:52:48	No Data
	26/05/2023 15:52:48	26/05/2023 15:52:50	Rejected
	26/05/2023 15:52:50	26/05/2023 15:56:40	Used
L5	26/05/2023 15:49:04	26/05/2023 15:52:27	No Data
	26/05/2023 15:52:27	26/05/2023 15:52:28	Rejected
	26/05/2023 15:52:28	26/05/2023 15:52:48	No Data
	26/05/2023 15:52:48	26/05/2023 15:52:50	Rejected
	26/05/2023 15:52:50	26/05/2023 15:56:40	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

#### G15

Frequency	From Epoch	To Epoch	Status
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Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L5	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:49:07	No Data
	26/05/2023 15:49:04	26/05/2023 15:49:07	Rejected
	26/05/2023 15:49:07	26/05/2023 15:49:08	Rejected
	26/05/2023 15:49:08	26/05/2023 15:56:40	Used
L5	26/05/2023 15:49:07	26/05/2023 15:56:40	No Data
	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
L2	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5a	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5b	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5ab	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:49:04	26/05/2023 15:49:18	No Data
	26/05/2023 15:49:18	26/05/2023 15:49:19	Used
	26/05/2023 15:49:19	26/05/2023 15:56:40	Rejected
E5a	26/05/2023 15:49:04	26/05/2023 15:49:19	No Data
	26/05/2023 15:49:19	26/05/2023 15:49:20	Rejected
	26/05/2023 15:49:20	26/05/2023 15:56:40	Used
E5b	26/05/2023 15:49:04	26/05/2023 15:49:19	No Data
	26/05/2023 15:49:19	26/05/2023 15:49:20	Rejected
	26/05/2023 15:49:20	26/05/2023 15:56:40	Used
E5ab	26/05/2023 15:49:04	26/05/2023 15:49:19	No Data
	26/05/2023 15:49:19	26/05/2023 15:49:20	Rejected
	26/05/2023 15:49:20	26/05/2023 15:56:40	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:49:04	26/05/2023 15:49:14	No Data
	26/05/2023 15:49:14	26/05/2023 15:56:40	Used
E5a	26/05/2023 15:49:04	26/05/2023 15:49:16	No Data

	26/05/2023 15:49:16	26/05/2023 15:56:40	Used
E5b	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:16</b>	<b>No Data</b>
	26/05/2023 15:49:16	26/05/2023 15:56:40	Used
E5ab	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:16</b>	<b>No Data</b>
	26/05/2023 15:49:16	26/05/2023 15:56:40	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5a	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5b	26/05/2023 15:49:04	26/05/2023 15:56:40	Used
E5ab	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:05</b>	<b>No Data</b>
	26/05/2023 15:49:05	26/05/2023 15:56:40	Used
E5a	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:06</b>	<b>No Data</b>
	26/05/2023 15:49:06	26/05/2023 15:49:07	Used
E5b	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:06</b>	<b>No Data</b>
	26/05/2023 15:49:06	26/05/2023 15:56:40	Used
E5ab	<b>26/05/2023 15:49:04</b>	<b>26/05/2023 15:49:07</b>	<b>No Data</b>
	<b>26/05/2023 15:49:07</b>	<b>26/05/2023 15:49:08</b>	<b>Rejected</b>
	26/05/2023 15:49:08	26/05/2023 15:56:40	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 15:49:04	26/05/2023 15:56:40	Used

Cycle Slips

Slip Count: 0

Processing Messages

Warning

Missing orbits for satellite R06.  
Missing orbits for satellite R10.

**Baseline MOQ01058 - PAF-CU2-5C**

**Processing Parameters (26/05/2023 16:16:00 - 26/05/2023 16:22:28)**

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Wideline Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-5C

### Acquisition

Start Time - End Time:	26/05/2023 16:16:00 - 26/05/2023 16:22:28
Duration:	00:06:28

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-5C
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-5C	Reference - MOQ01058	Rover - PAF-CU2-5C	
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 41.04589" S	Easting:	318,107.441 m	314,578.904 m
WGS84 Longitude:	-	70° 44' 32.33828" W	Northing:	8,117,307.121 m	8,112,825.048 m
WGS84 Ellip. Height:	-	3,754.045 m	Ortho. Height:	3,897.429 m	3,713.228 m
WGS84 Cartesian X:	-	2,012,804.530 m			
WGS84 Cartesian Y:	-	-5,761,304.584 m			
WGS84 Cartesian Z:	-	-1,860,432.138 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 24.77687"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 00.64784"	SD ΔLongitude:	0.000 m
ΔHeight:	-184.866 m	SD ΔHeight:	0.000 m
ΔX:	-3,859.102 m	SD ΔX:	0.000 m



ΔY:	220.344 m	SD ΔY:	0.000 m
ΔZ:	-4,203.663 m	SD ΔZ:	0.000 m
Slope Dist.:	5,710.692 m	SD Slope Dist.:	0.000 m

M0:	0.382 m	CQ 1D:	0.000 m
Q11:	0.00000015	CQ 2D:	0.000 m
Q12:	-0.00000015	CQ 3D:	0.000 m
Q22:	0.00000043		
Q13:	-0.00000007		
Q23:	0.00000013		
Q33:	0.00000012		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.6 - 2.0	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.0 - 1.2	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	6/6
		VDOP:	0.9 - 1.0	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (26/05/2023 16:16:00 - 26/05/2023 16:22:28)

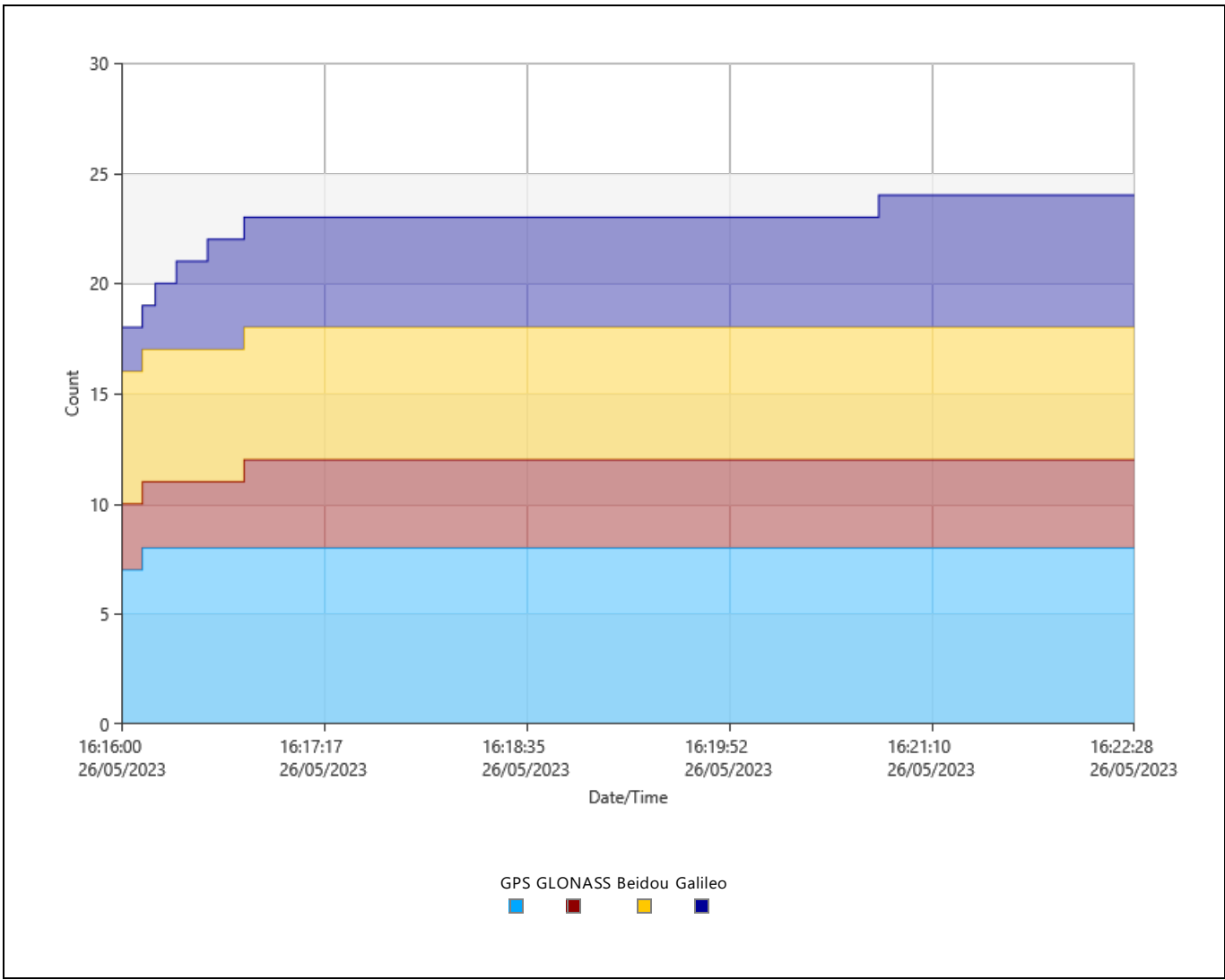
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Processed Date/Time: 09/06/2023 17:54:21

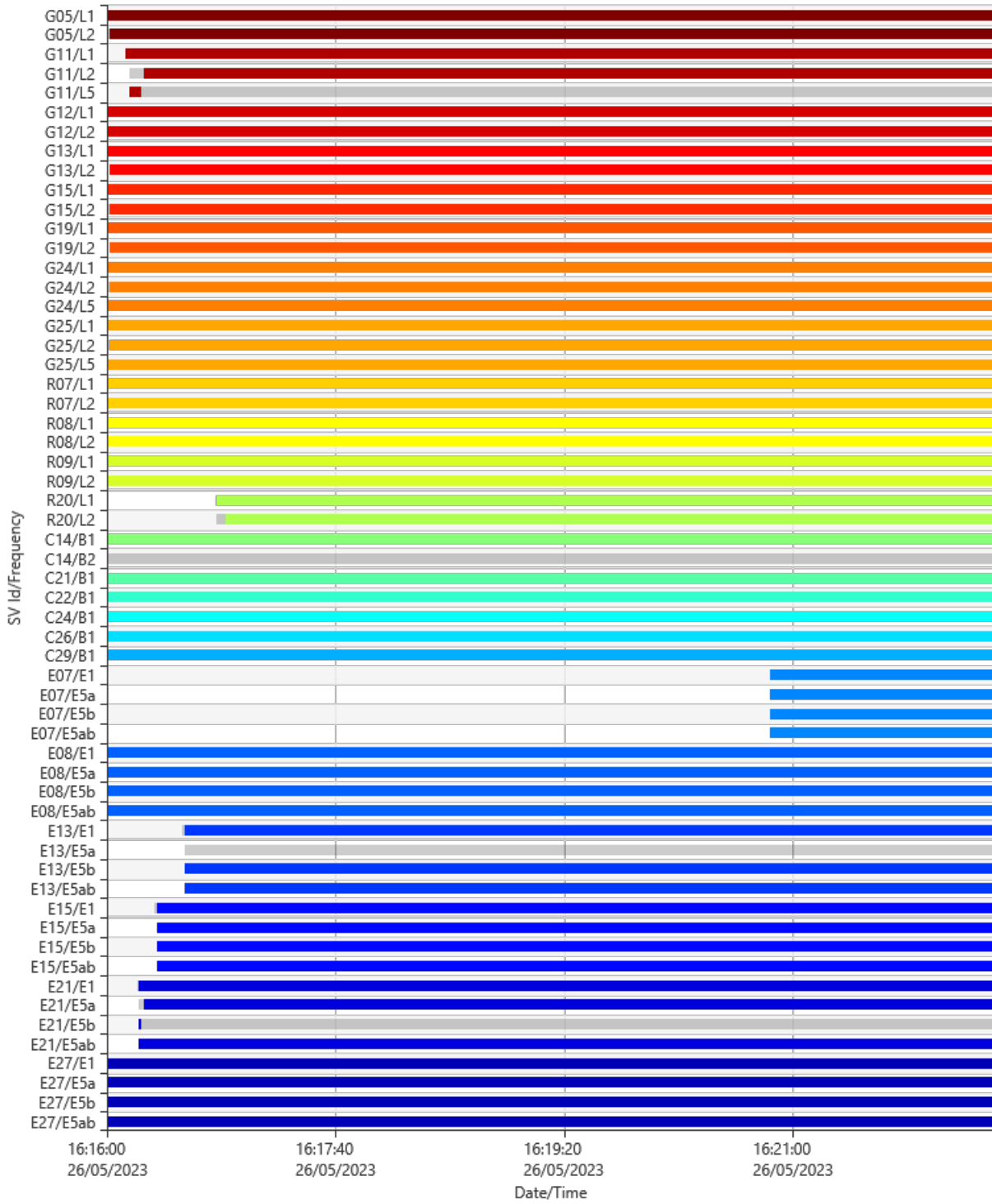
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G11 G12 G13 G15 G19 G24 G25	-
GLONASS	R07 R08 R09 R20	-
Beidou	C14 C21 C22 C24 C26 C29	-
Galileo	E07 E08 E13 E15 E21 E27	-

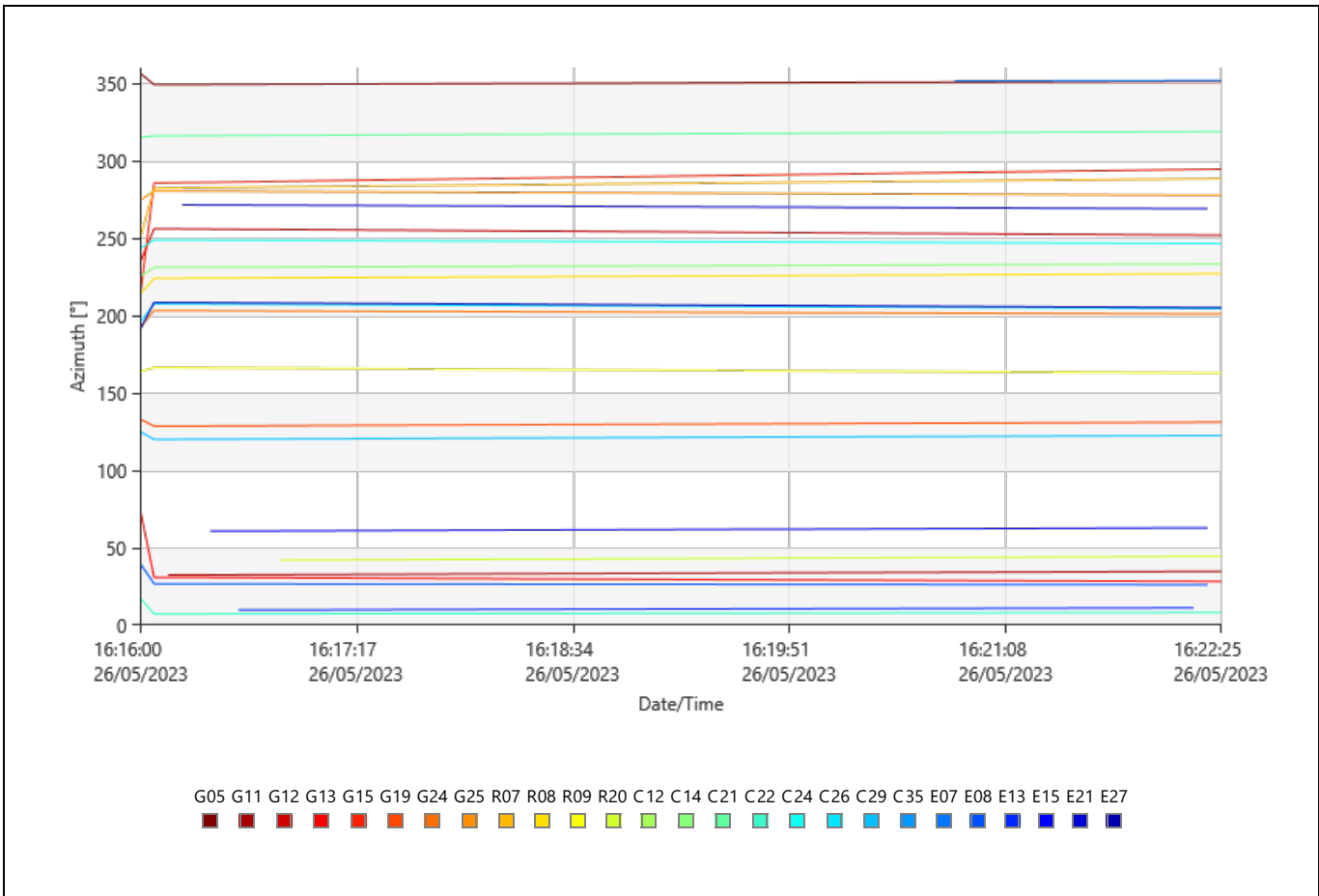
### SVs Tracked



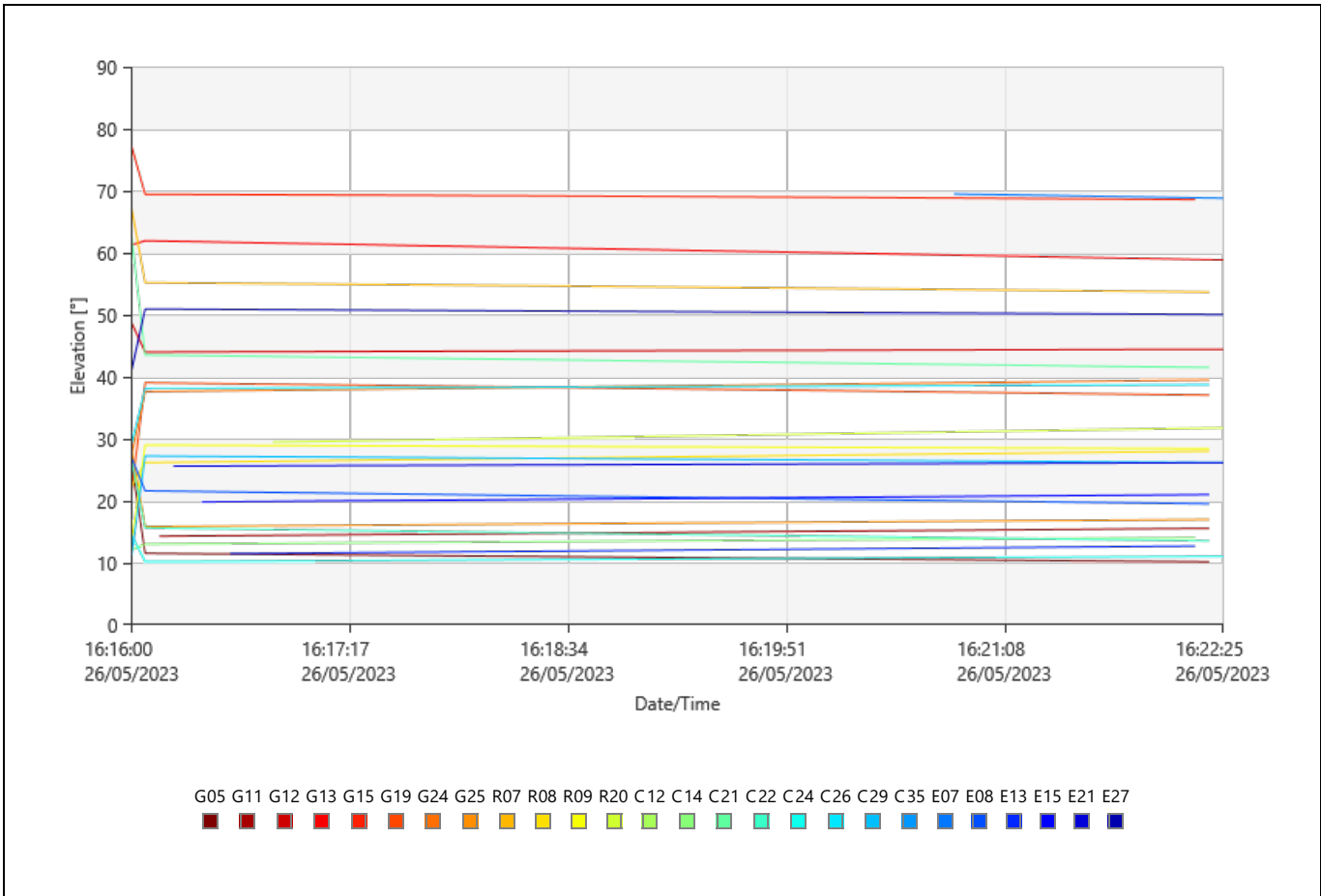
**Signals Tracked**



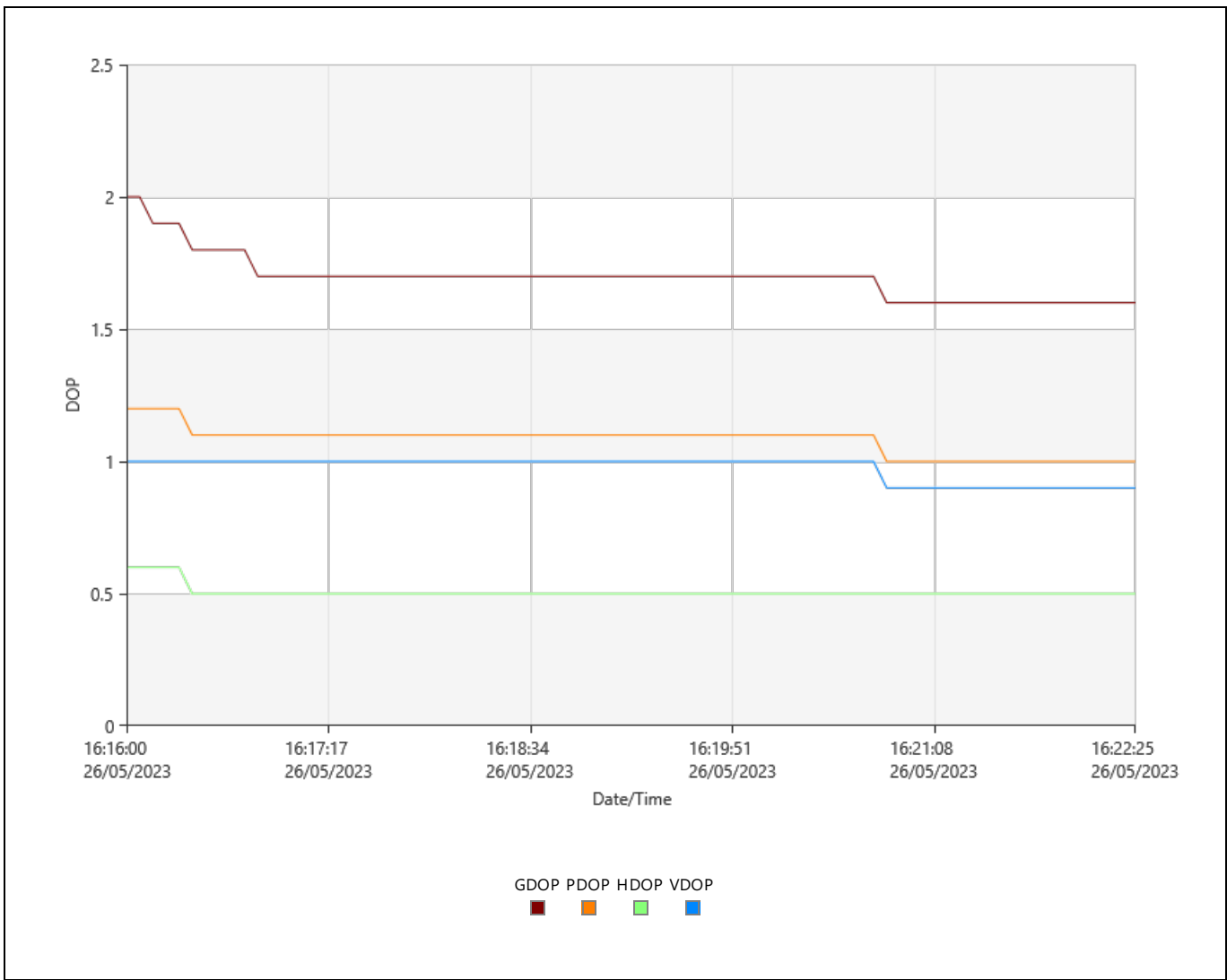
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 389

#### GPS Observations

Frequency	Used	Rejected
L1	3,104	0
L2	3,090	10
L5	783	374

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,508	1
L2	1,504	4

#### Beidou Observations

Frequency	Used	Rejected
B1	2,334	0
B2	0	389

#### Galileo Observations

Frequency	Used	Rejected
E1	1,974	3
E5a	1,617	357
E5b	1,600	374
E5ab	1,974	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	21	8	6	24
Total	21	8	7	25
Independently fixed	48	48	48	48
Possible independently fixed	48	48	48	48

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou		Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	99.90	100.00	100.00
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.10	0.00	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 16:16:00	26/05/2023 16:22:28	00:06:28

## Residuals

### Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>Rejected</b>
	26/05/2023 16:16:01	26/05/2023 16:22:28	Used
	<b>26/05/2023 16:16:01</b>	<b>26/05/2023 16:22:28</b>	<b>No Data</b>

G11

Frequency	From Epoch	To Epoch	Status
L1	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:08</b>	<b>No Data</b>
	26/05/2023 16:16:08	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:10</b>	<b>No Data</b>
	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:15</b>	<b>No Data</b>
	<b>26/05/2023 16:16:10</b>	<b>26/05/2023 16:16:15</b>	<b>Rejected</b>
	<b>26/05/2023 16:16:15</b>	<b>26/05/2023 16:16:16</b>	<b>Rejected</b>
	26/05/2023 16:16:16	26/05/2023 16:22:28	Used
	<b>26/05/2023 16:16:15</b>	<b>26/05/2023 16:22:28</b>	<b>No Data</b>
L5	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:10</b>	<b>No Data</b>
	26/05/2023 16:16:10	26/05/2023 16:16:15	Used
	<b>26/05/2023 16:16:15</b>	<b>26/05/2023 16:22:28</b>	<b>Rejected</b>

G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	26/05/2023 16:16:01	26/05/2023 16:22:28	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>Rejected</b>
	26/05/2023 16:16:01	26/05/2023 16:22:28	Used
	<b>26/05/2023 16:16:01</b>	<b>26/05/2023 16:22:28</b>	<b>No Data</b>

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	26/05/2023 16:16:01	26/05/2023 16:22:28	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>Rejected</b>
	26/05/2023 16:16:01	26/05/2023 16:22:28	Used
	<b>26/05/2023 16:16:01</b>	<b>26/05/2023 16:22:28</b>	<b>No Data</b>
L5	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>No Data</b>
	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:01</b>	<b>Rejected</b>

	26/05/2023 16:16:01	26/05/2023 16:22:28	Used
	<b>26/05/2023 16:16:01</b>	<b>26/05/2023 16:22:28</b>	<b>No Data</b>
L5	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
L2	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

R20

Frequency	From Epoch	To Epoch	Status
L1	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:47</b>	<b>No Data</b>
	<b>26/05/2023 16:16:47</b>	<b>26/05/2023 16:16:48</b>	<b>Rejected</b>
	26/05/2023 16:16:48	26/05/2023 16:22:28	Used
L2	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:48</b>	<b>No Data</b>
	<b>26/05/2023 16:16:48</b>	<b>26/05/2023 16:16:52</b>	<b>Rejected</b>
	26/05/2023 16:16:52	26/05/2023 16:22:28	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:20:50</b>	<b>No Data</b>
	26/05/2023 16:20:50	26/05/2023 16:22:28	Used
E5a	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:20:50</b>	<b>No Data</b>
	26/05/2023 16:20:50	26/05/2023 16:22:28	Used
E5b	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:20:50</b>	<b>No Data</b>
	26/05/2023 16:20:50	26/05/2023 16:22:28	Used
E5ab	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:20:50</b>	<b>No Data</b>
	26/05/2023 16:20:50	26/05/2023 16:22:28	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5a	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5b	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5ab	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:33</b>	<b>No Data</b>
	<b>26/05/2023 16:16:33</b>	<b>26/05/2023 16:16:34</b>	<b>Rejected</b>
	26/05/2023 16:16:34	26/05/2023 16:22:28	Used
E5a	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:34</b>	<b>No Data</b>
	<b>26/05/2023 16:16:34</b>	<b>26/05/2023 16:22:28</b>	<b>Rejected</b>
E5b	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:34</b>	<b>No Data</b>
	26/05/2023 16:16:34	26/05/2023 16:22:28	Used
E5ab	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:34</b>	<b>No Data</b>
	26/05/2023 16:16:34	26/05/2023 16:22:28	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:21</b>	<b>No Data</b>
	<b>26/05/2023 16:16:21</b>	<b>26/05/2023 16:16:22</b>	<b>Rejected</b>
	26/05/2023 16:16:22	26/05/2023 16:22:28	Used
E5a	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:22</b>	<b>No Data</b>
	26/05/2023 16:16:22	26/05/2023 16:22:28	Used
E5b	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:22</b>	<b>No Data</b>
	26/05/2023 16:16:22	26/05/2023 16:22:28	Used
E5ab	<b>26/05/2023 16:16:00</b>	<b>26/05/2023 16:16:22</b>	<b>No Data</b>

	26/05/2023 16:16:22	26/05/2023 16:22:28	Used
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E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:16:00	26/05/2023 16:16:13	No Data
	26/05/2023 16:16:13	26/05/2023 16:16:14	Rejected
	26/05/2023 16:16:14	26/05/2023 16:22:28	Used
E5a	26/05/2023 16:16:00	26/05/2023 16:16:14	No Data
	26/05/2023 16:16:14	26/05/2023 16:16:16	Rejected
	26/05/2023 16:16:16	26/05/2023 16:22:28	Used
E5b	26/05/2023 16:16:00	26/05/2023 16:16:14	No Data
	26/05/2023 16:16:14	26/05/2023 16:16:15	Used
	26/05/2023 16:16:15	26/05/2023 16:22:28	Rejected
E5ab	26/05/2023 16:16:00	26/05/2023 16:16:14	No Data
	26/05/2023 16:16:14	26/05/2023 16:22:28	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5a	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5b	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
E5ab	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used
B2	26/05/2023 16:16:00	26/05/2023 16:22:28	Rejected

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

C24

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:16:00	26/05/2023 16:22:28	Used

Cycle Slips

Slip Count: 1

SV	Frequency	Epoch	Slip Value	Flag
E21	E5a	26/05/2023 16:16:16	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

Processing Messages

Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

**Baseline MOQ01058 - PAF-CU2-03D**



## Processing Parameters (26/05/2023 16:25:30 - 26/05/2023 16:31:07)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-03D

### Acquisition

Start Time - End Time:	26/05/2023 16:25:30 - 26/05/2023 16:31:07
Duration:	00:05:37

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-03D
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-03D	Reference - MOQ01058	Rover - PAF-CU2-03D
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 03' 45.16396" S	Easting: 318,107.441 m	314,073.137 m
WGS84 Longitude:	-	70° 44' 49.48105" W	Northing: 8,117,307.121 m	8,112,693.923 m

WGS84 Ellip. Height:	-	3,598.730 m	Ortho. Height:	3,897.429 m	3,557.977 m
WGS84 Cartesian X:	-	2,012,264.484 m			
WGS84 Cartesian Y:	-	-5,761,296.587 m			
WGS84 Cartesian Z:	-	-1,860,507.662 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 02' 28.89495"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 02' 17.79061"	SD ΔLongitude:	0.000 m
ΔHeight:	-340.181 m	SD ΔHeight:	0.000 m
ΔX:	-4,399.148 m	SD ΔX:	0.000 m
ΔY:	228.342 m	SD ΔY:	0.000 m
ΔZ:	-4,279.187 m	SD ΔZ:	0.000 m
Slope Dist.:	6,141.343 m	SD Slope Dist.:	0.000 m

M0:	0.367 m	CQ 1D:	0.000 m
Q11:	0.00000016	CQ 2D:	0.000 m
Q12:	-0.00000021	CQ 3D:	0.000 m
Q22:	0.00000061		
Q13:	-0.00000011		
Q23:	0.00000022		
Q33:	0.00000018		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 1.8	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.1 - 1.2	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.6	Beidou SVs:	7/7
		VDOP:	0.9 - 1.0	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

### Processing Info (26/05/2023 16:25:30 - 26/05/2023 16:31:07)

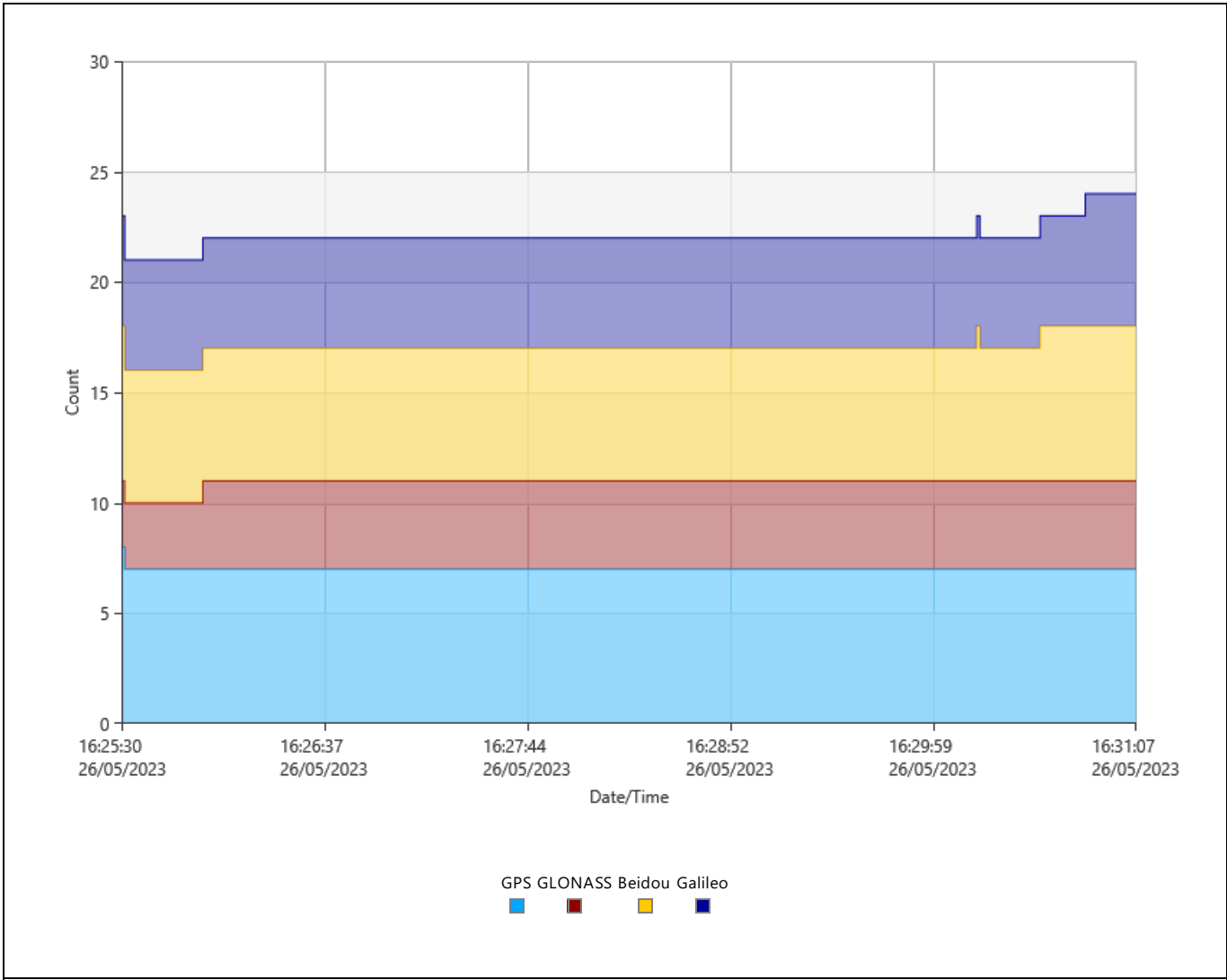
---

Processed Date/Time: 09/06/2023 17:54:21

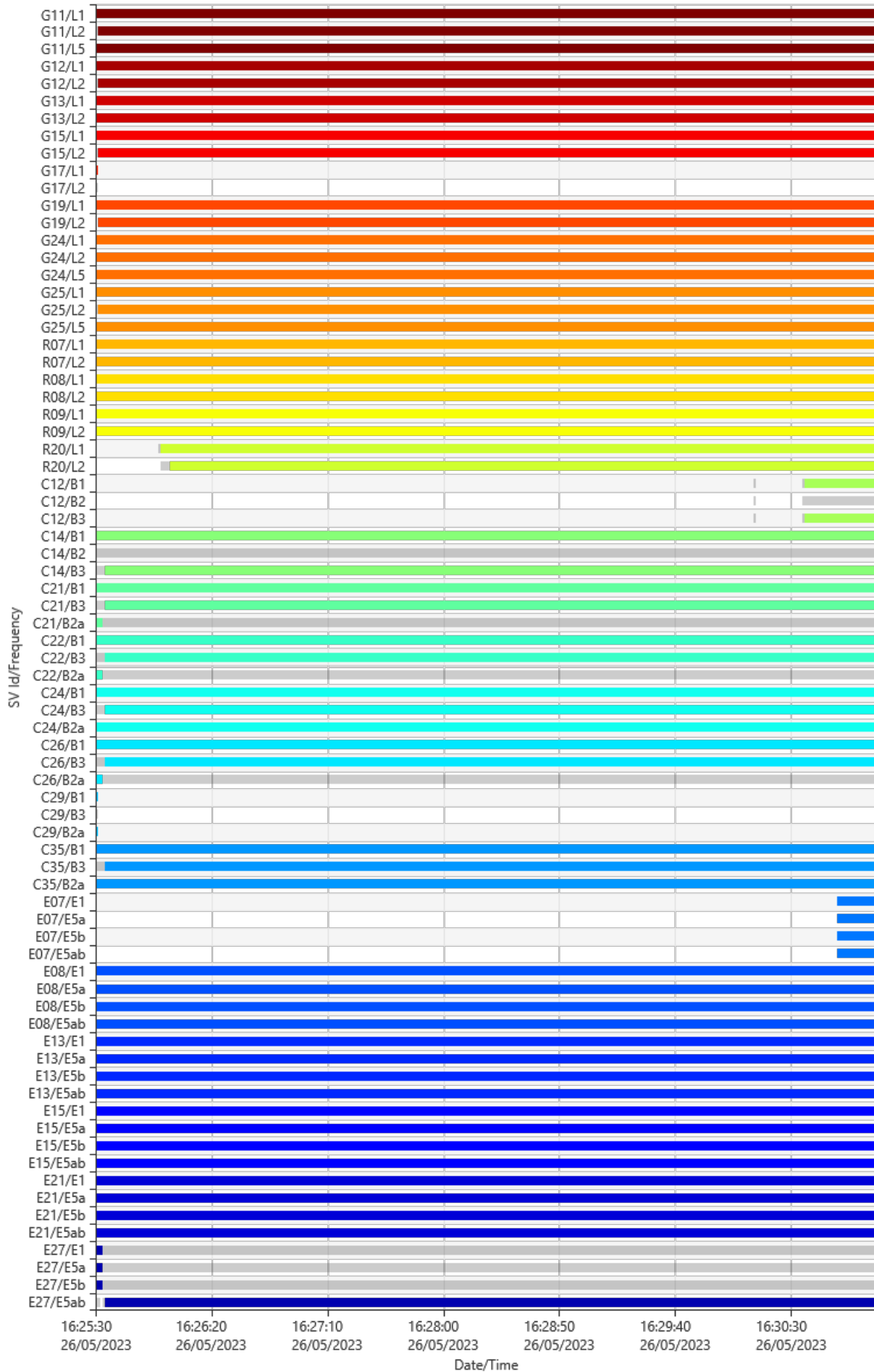
### Satellites

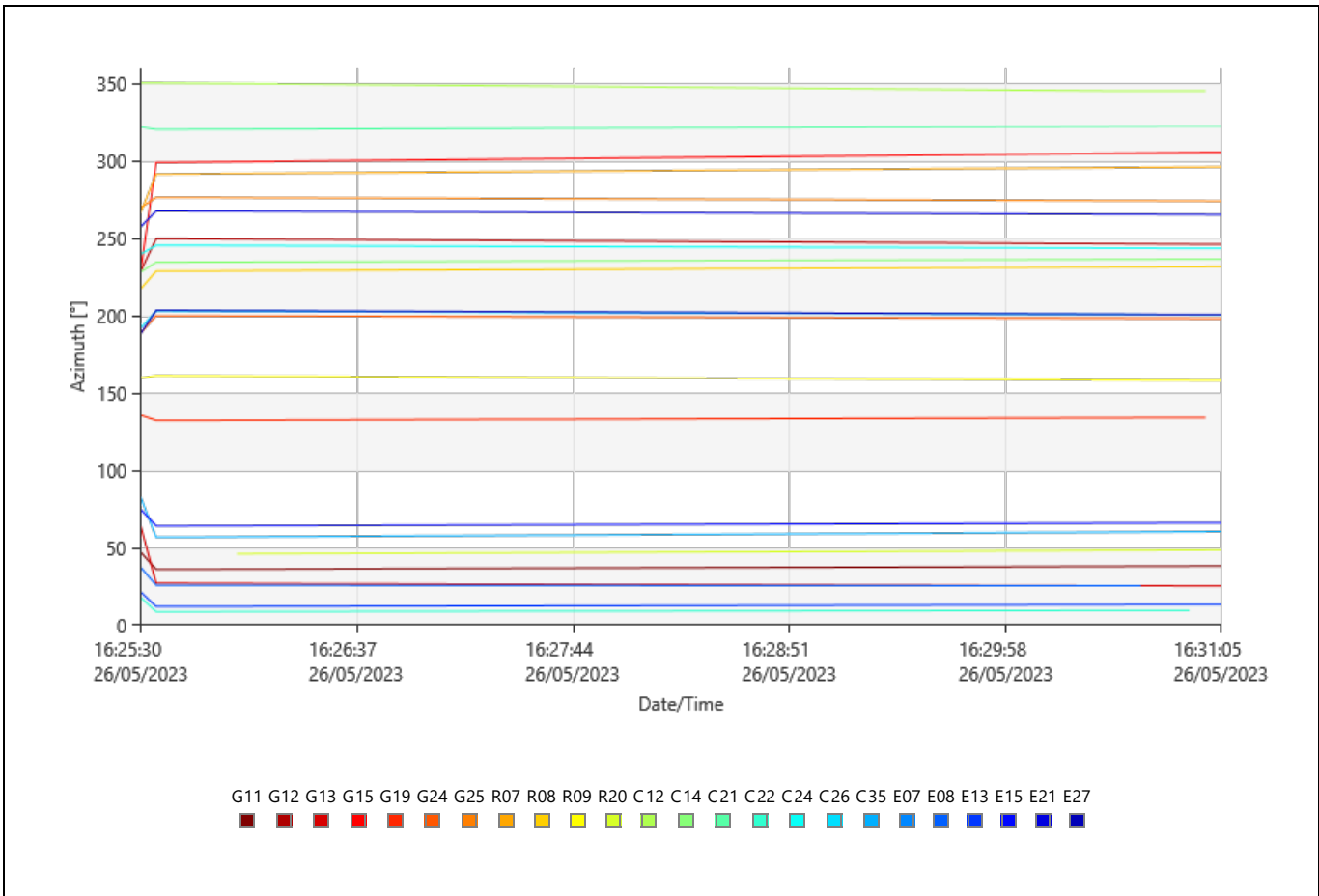
Satellite System	Used	Manually Disabled
GPS	G11 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R07 R08 R09 R20	-
Beidou	C12 C14 C21 C22 C24 C26 C29 C35	-
Galileo	E07 E08 E13 E15 E21 E27	-

### SVs Tracked

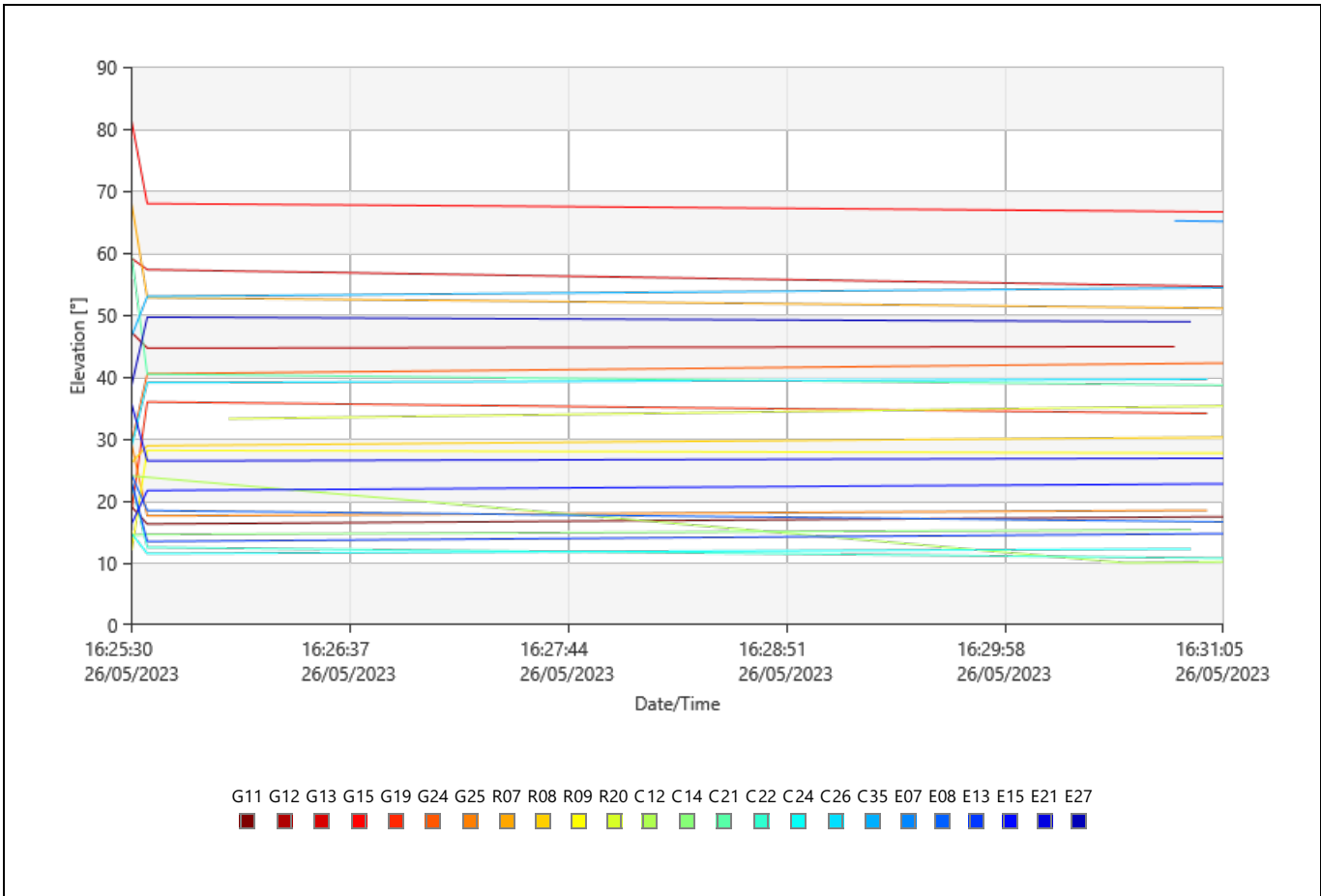


**Signals Tracked**

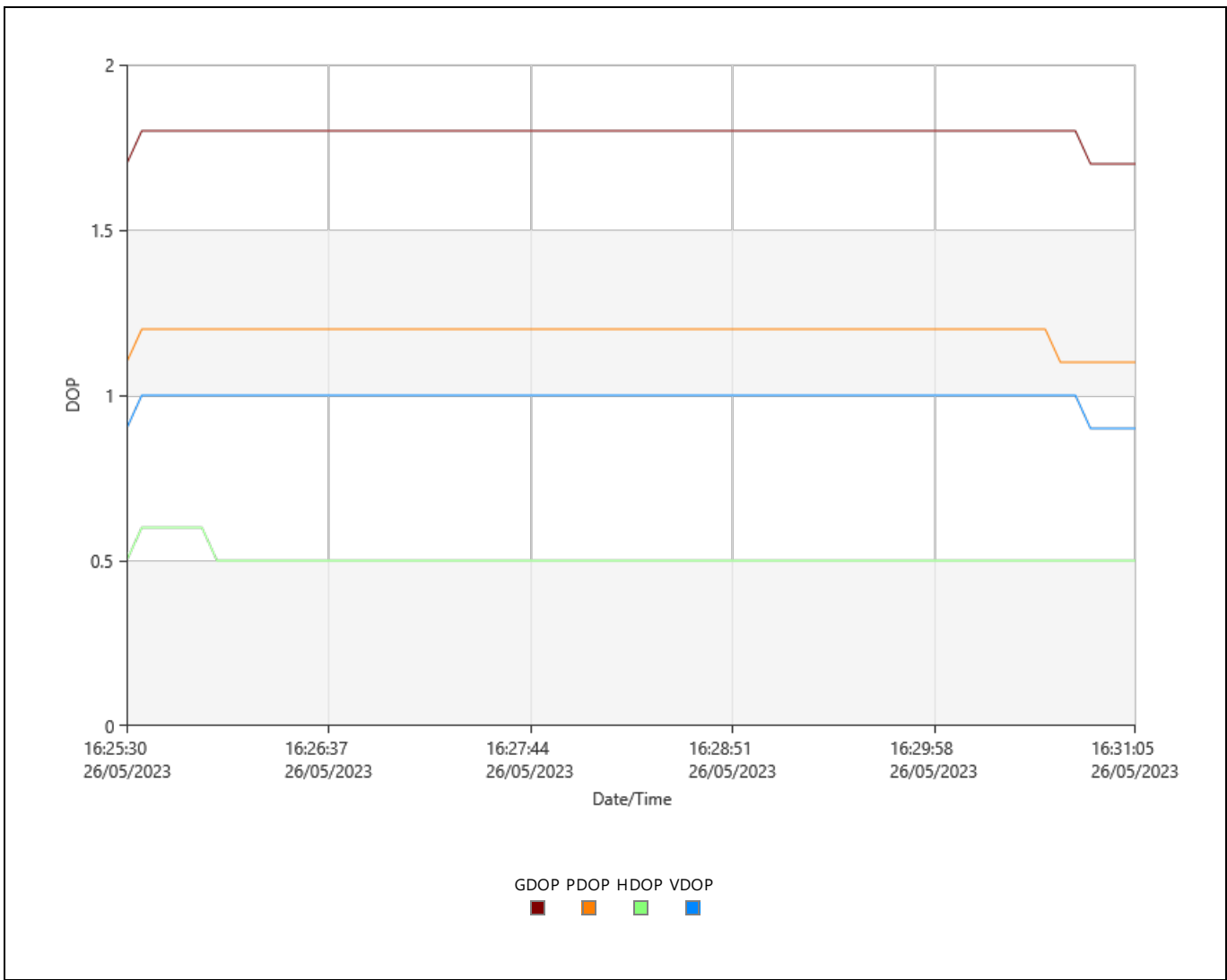




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 338

#### GPS Observations

Frequency	Used	Rejected
L1	2,367	0
L2	2,361	5
L5	1,014	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,324	1
L2	1,320	4

#### Beidou Observations

Frequency	Used	Rejected
B1	2,061	2
B2	0	372
B3	2,036	27
B2a	686	1,005

#### Galileo Observations

Frequency	Used	Rejected
E1	1,373	335
E5a	1,373	335
E5b	1,373	335
E5ab	1,704	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	19	8	22	24
Total	19	8	24	25
Independently fixed	42	42	42	42
Possible independently fixed	42	42	42	42

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	100.00	99.88
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.12
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 16:25:30	26/05/2023 16:31:07	00:05:37

## Residuals

### Tracking Status

G11

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>No Data</b>
	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>Rejected</b>
	26/05/2023 16:25:31	26/05/2023 16:31:07	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>
L5	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>No Data</b>
	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>Rejected</b>
	26/05/2023 16:25:31	26/05/2023 16:31:07	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>No Data</b>
	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>Rejected</b>
	26/05/2023 16:25:31	26/05/2023 16:31:07	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>

G17

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:25:31	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>Rejected</b>
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>No Data</b>
	26/05/2023 16:25:31	26/05/2023 16:31:07	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L5	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>No Data</b>
	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:31</b>	<b>Rejected</b>
	26/05/2023 16:25:31	26/05/2023 16:31:07	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>
L5	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

R07

Frequency	From Epoch	To Epoch	Status
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L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

R20

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 16:25:30	26/05/2023 16:25:57	No Data
	26/05/2023 16:25:57	26/05/2023 16:25:58	Rejected
	26/05/2023 16:25:58	26/05/2023 16:31:07	Used
L2	26/05/2023 16:25:30	26/05/2023 16:25:58	No Data
	26/05/2023 16:25:58	26/05/2023 16:26:02	Rejected
	26/05/2023 16:26:02	26/05/2023 16:31:07	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:30:50	No Data
	26/05/2023 16:30:50	26/05/2023 16:31:07	Used
E5a	26/05/2023 16:25:30	26/05/2023 16:30:50	No Data
	26/05/2023 16:30:50	26/05/2023 16:31:07	Used
E5b	26/05/2023 16:25:30	26/05/2023 16:30:50	No Data
	26/05/2023 16:30:50	26/05/2023 16:31:07	Used
E5ab	26/05/2023 16:25:30	26/05/2023 16:30:50	No Data
	26/05/2023 16:30:50	26/05/2023 16:31:07	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5a	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5b	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5ab	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5a	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5b	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5ab	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5a	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5b	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5ab	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5a	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5b	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
E5ab	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected
E5a	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected



E5b	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected
E5ab	26/05/2023 16:25:30	26/05/2023 16:25:32	Rejected
	26/05/2023 16:25:32	26/05/2023 16:25:33	No Data
	26/05/2023 16:25:33	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used

C12

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:30:14	No Data
	26/05/2023 16:30:14	26/05/2023 16:30:15	Rejected
	26/05/2023 16:30:15	26/05/2023 16:30:35	No Data
	26/05/2023 16:30:35	26/05/2023 16:30:36	Rejected
	26/05/2023 16:30:36	26/05/2023 16:31:07	Used
B2	26/05/2023 16:25:30	26/05/2023 16:30:14	No Data
	26/05/2023 16:30:14	26/05/2023 16:30:15	Rejected
	26/05/2023 16:30:15	26/05/2023 16:30:35	No Data
	26/05/2023 16:30:35	26/05/2023 16:31:07	Rejected
B3	26/05/2023 16:25:30	26/05/2023 16:30:14	No Data
	26/05/2023 16:30:14	26/05/2023 16:30:15	Rejected
	26/05/2023 16:30:15	26/05/2023 16:30:35	No Data
	26/05/2023 16:30:35	26/05/2023 16:30:36	Rejected
	26/05/2023 16:30:36	26/05/2023 16:31:07	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
B2	26/05/2023 16:25:30	26/05/2023 16:31:07	Rejected
B3	26/05/2023 16:25:30	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
B3	26/05/2023 16:25:30	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used
B2a	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected

C22

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
B3	26/05/2023 16:25:30	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used
B2a	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected

C24

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
B3	26/05/2023 16:25:30	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used
B2a	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
B3	26/05/2023 16:25:30	26/05/2023 16:25:34	Rejected
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used
B2a	26/05/2023 16:25:30	26/05/2023 16:25:33	Used
	26/05/2023 16:25:33	26/05/2023 16:31:07	Rejected

C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 16:25:30	26/05/2023 16:25:31	Used
	26/05/2023 16:25:31	26/05/2023 16:31:07	No Data
B3	26/05/2023 16:25:30	26/05/2023 16:25:31	Rejected
	26/05/2023 16:25:31	26/05/2023 16:31:07	No Data

<b>B2a</b>	26/05/2023 16:25:30	26/05/2023 16:25:31	Used
	<b>26/05/2023 16:25:31</b>	<b>26/05/2023 16:31:07</b>	<b>No Data</b>

### C35

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	26/05/2023 16:25:30	26/05/2023 16:31:07	Used
<b>B3</b>	<b>26/05/2023 16:25:30</b>	<b>26/05/2023 16:25:34</b>	<b>Rejected</b>
	26/05/2023 16:25:34	26/05/2023 16:31:07	Used
<b>B2a</b>	26/05/2023 16:25:30	26/05/2023 16:31:07	Used

### Cycle Slips

Slip Count: 0

### Processing Messages

#### Warning

Missing orbits for satellite R06.  
Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-04D

### Processing Parameters (26/05/2023 17:04:00 - 26/05/2023 17:09:19)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

#### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

#### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

### Results Baseline: MOQ01058 - PAF-CU2-04D

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#### Acquisition

Start Time - End Time: 26/05/2023 17:04:00 - 26/05/2023 17:09:19  
Duration: 00:05:19

#### Antennas

**Reference - MOQ01058    Rover - PAF-CU2-04D**

Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-04D		Reference - MOQ01058	Rover - PAF-CU2-04D
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 51.28614" S	Easting:	318,107.441 m	314,768.812 m
WGS84 Longitude:	-	70° 44' 26.01075" W	Northing:	8,117,307.121 m	8,112,511.920 m
WGS84 Ellip. Height:	-	3,749.841 m	Ortho. Height:	3,897.429 m	3,709.031 m
WGS84 Cartesian X:	-	2,012,949.456 m			
WGS84 Cartesian Y:	-	-5,761,151.789 m			
WGS84 Cartesian Z:	-	-1,860,732.028 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 02' 35.01713"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 54.32030"	SD ΔLongitude:	0.000 m
ΔHeight:	-189.070 m	SD ΔHeight:	0.000 m
ΔX:	-3,714.176 m	SD ΔX:	0.000 m
ΔY:	373.139 m	SD ΔY:	0.000 m
ΔZ:	-4,503.553 m	SD ΔZ:	0.000 m
Slope Dist.:	5,849.473 m	SD Slope Dist.:	0.000 m

M0:	0.477 m	CQ 1D:	0.000 m
Q11:	0.00000012	CQ 2D:	0.000 m
Q12:	-0.00000020	CQ 3D:	0.001 m
Q22:	0.00000110		
Q13:	-0.00000004		
Q23:	0.00000012		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.7 - 3.0	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.2 - 1.7	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.7	Beidou SVs:	7/7
		VDOP:	1.1 - 1.6	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

**Processing Info (26/05/2023 17:04:00 - 26/05/2023 17:09:19)**

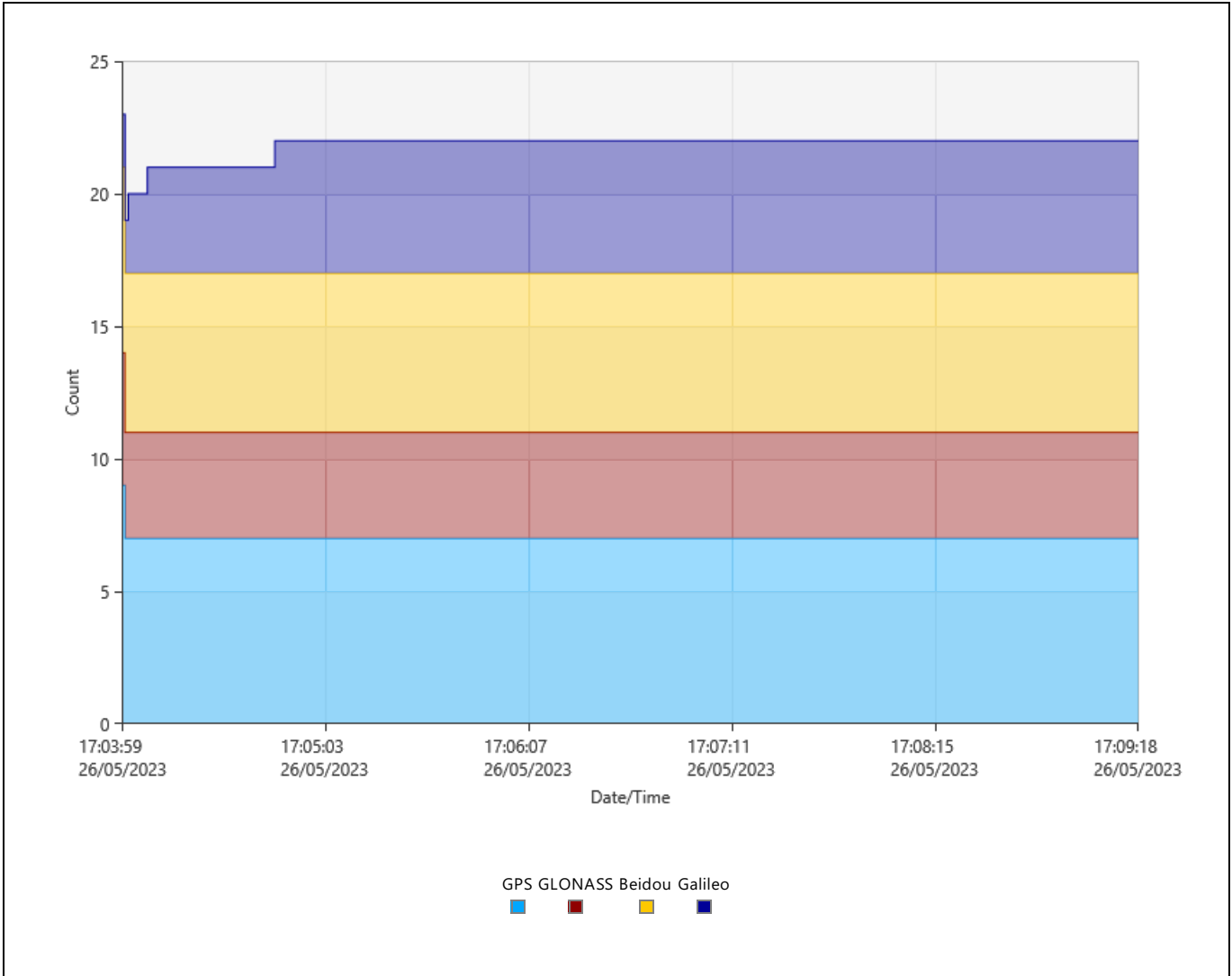
Processed Date/Time: 09/06/2023 17:54:21

**Satellites**

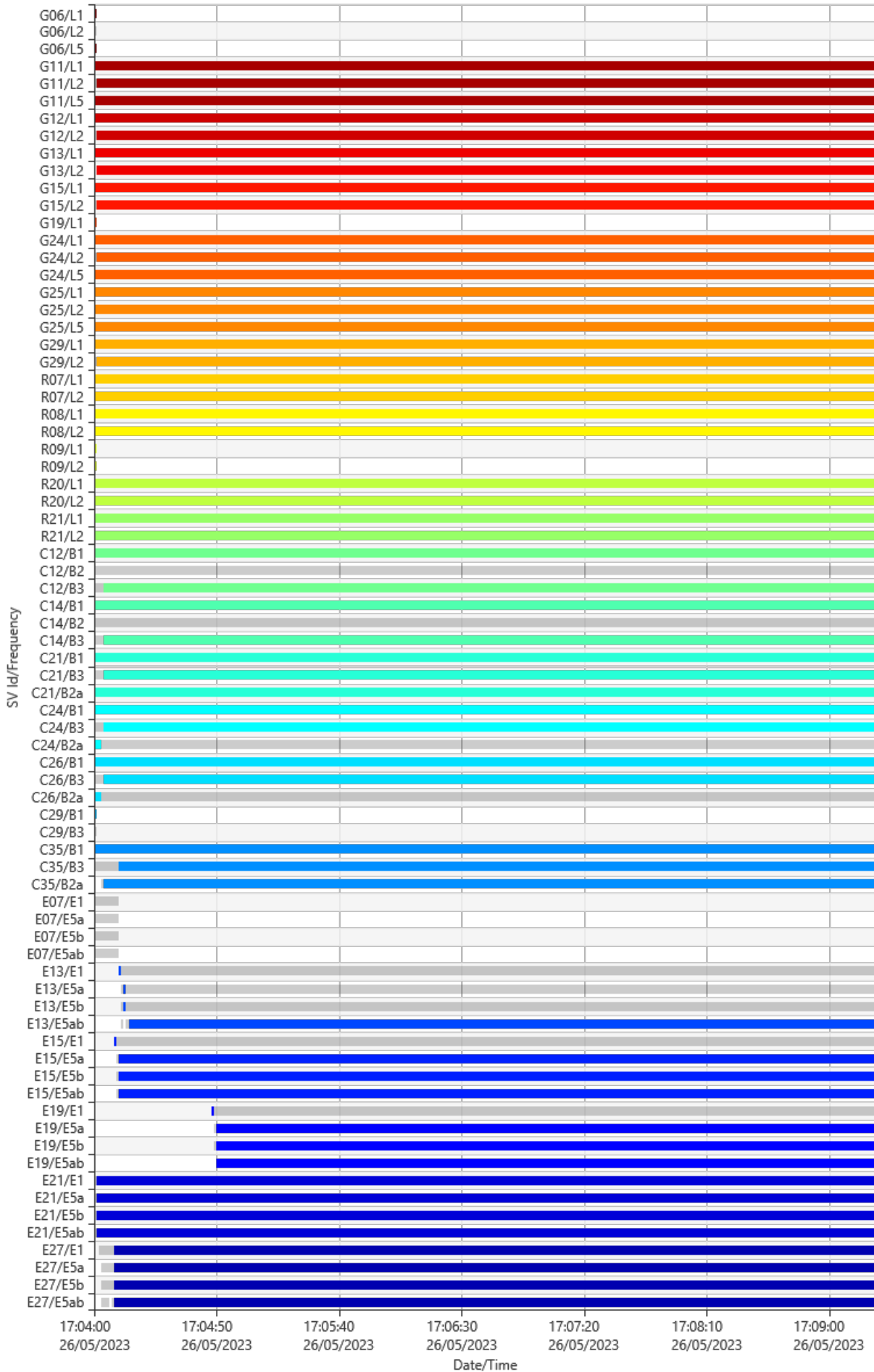
Satellite System	Used	Manually Disabled
GPS	G06 G11 G12 G13 G15 G19	-

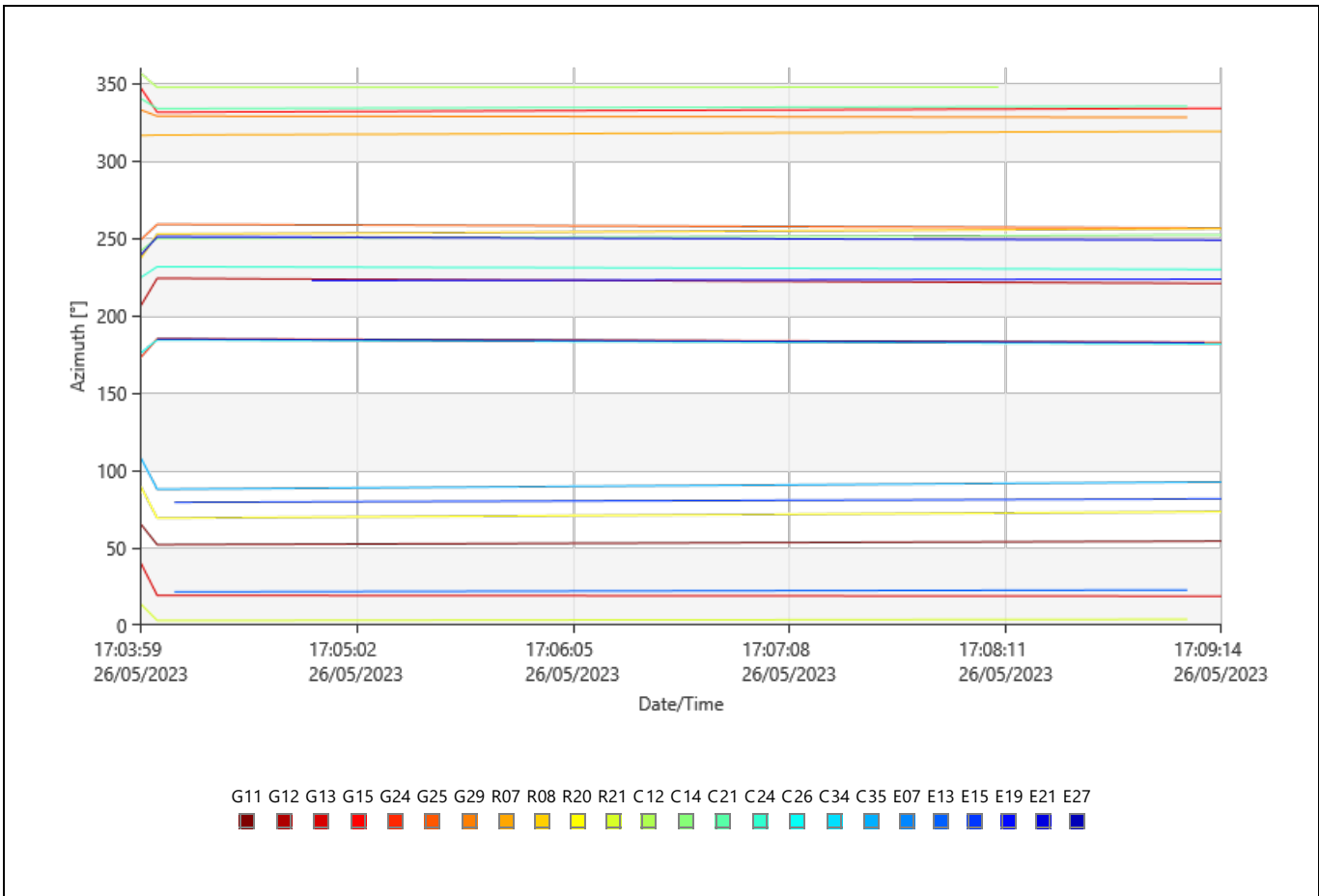
	G24 G25 G29	
GLONASS	R07 R08 R09 R20 R21	-
Beidou	C12 C14 C21 C24 C26 C29	-
	C35	
Galileo	E13 E15 E19 E21 E27	-

**SVs Tracked**

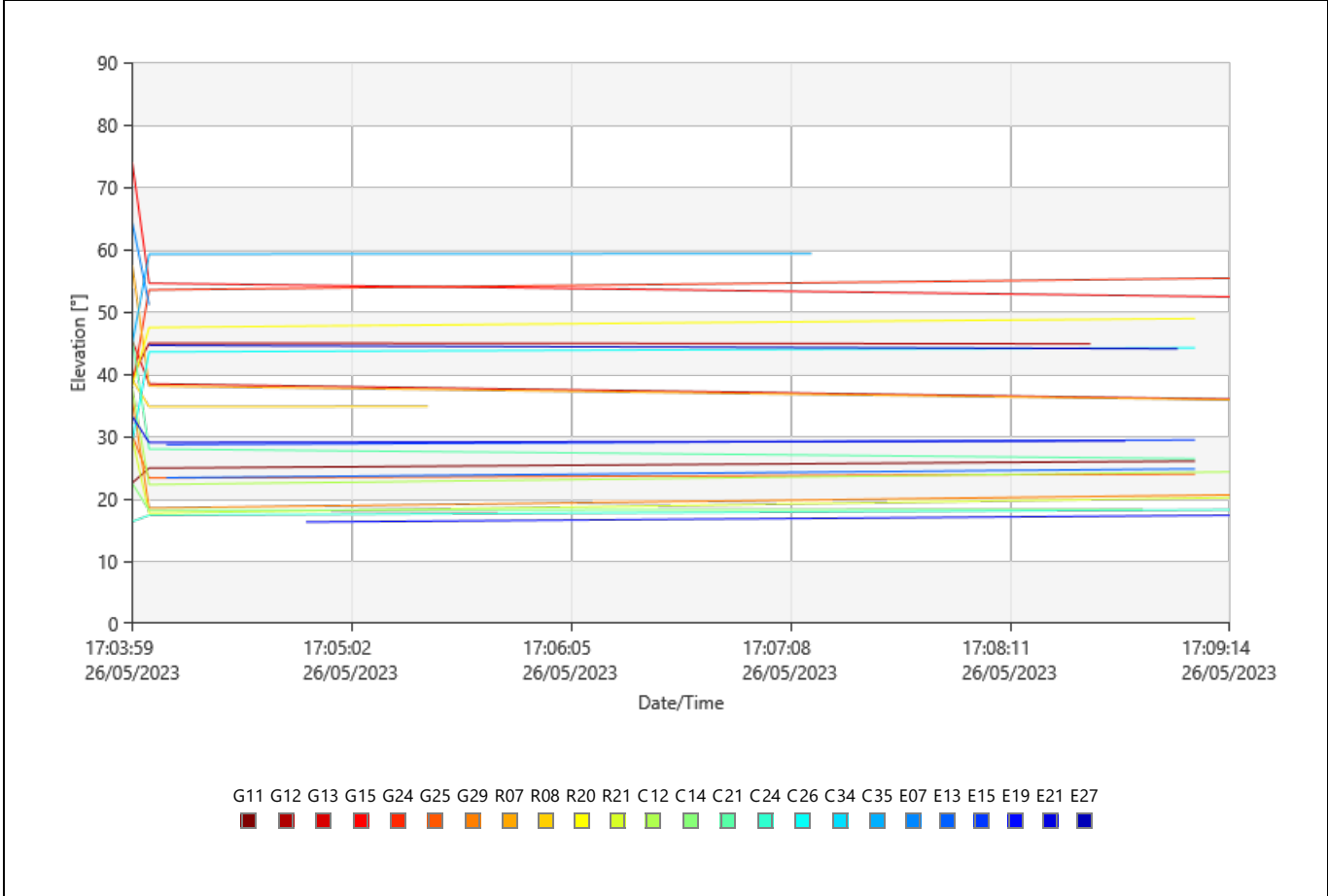


**Signals Tracked**

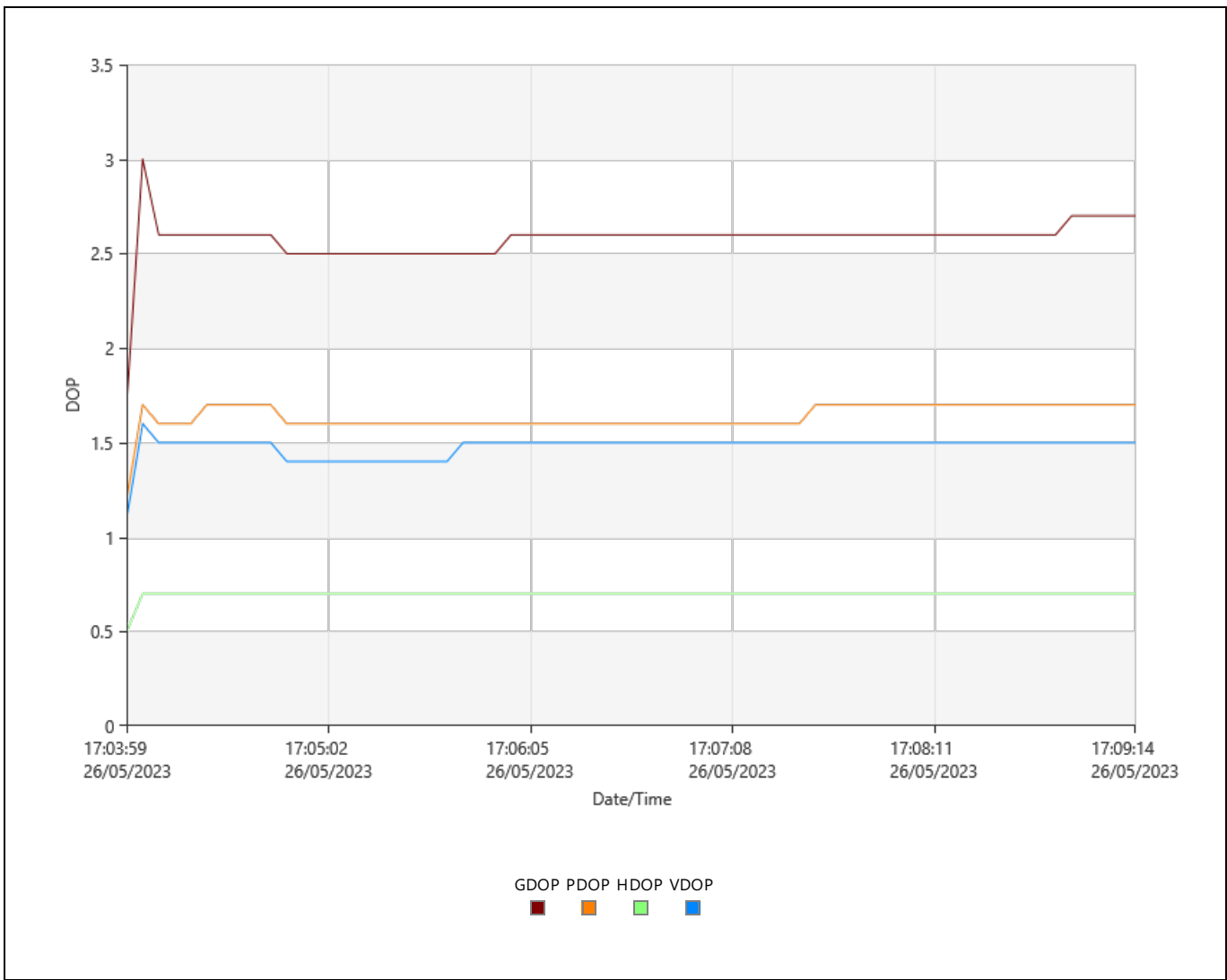




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 320

#### GPS Observations

Frequency	Used	Rejected
L1	2,242	0
L2	2,234	6
L5	961	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,281	0
L2	1,281	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,921	0
B2	0	640
B3	1,890	31
B2a	642	635

#### Galileo Observations

Frequency	Used	Rejected
E1	634	908
E5a	1,212	326
E5b	1,212	326
E5ab	1,517	18

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	22	10	19	20
Total	22	10	21	32
Independently fixed	40	40	40	40
Possible independently fixed	40	40	40	40

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	98.89	99.02	99.02	99.15
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	1.11	0.98	0.98	0.85
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 17:04:00	26/05/2023 17:09:19	00:05:19

## Residuals

### Tracking Status

G06

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
L5	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

G11

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
L5	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

G19

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
L5	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L5	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

G29



Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>No Data</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:01</b>	<b>Rejected</b>
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

R09

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
L2	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	<b>26/05/2023 17:04:01</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

R20

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

R21

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
L2	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:10</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:10</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
E5a	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:10</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:10</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
E5b	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:10</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:10</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>
E5ab	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:10</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:10</b>	<b>26/05/2023 17:09:19</b>	<b>No Data</b>

E13

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:10</b>	<b>No Data</b>
	26/05/2023 17:04:10	26/05/2023 17:04:11	Used
	<b>26/05/2023 17:04:11</b>	<b>26/05/2023 17:09:19</b>	<b>Rejected</b>
E5a	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:11</b>	<b>No Data</b>
	<b>26/05/2023 17:04:11</b>	<b>26/05/2023 17:04:12</b>	<b>Rejected</b>
	26/05/2023 17:04:12	26/05/2023 17:04:13	Used
E5b	<b>26/05/2023 17:04:13</b>	<b>26/05/2023 17:09:19</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:11</b>	<b>No Data</b>
	<b>26/05/2023 17:04:11</b>	<b>26/05/2023 17:04:12</b>	<b>Rejected</b>
E5ab	26/05/2023 17:04:12	26/05/2023 17:04:13	Used
	<b>26/05/2023 17:04:13</b>	<b>26/05/2023 17:09:19</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:11</b>	<b>No Data</b>
E5ab	<b>26/05/2023 17:04:11</b>	<b>26/05/2023 17:04:12</b>	<b>Rejected</b>
	<b>26/05/2023 17:04:12</b>	<b>26/05/2023 17:04:13</b>	<b>No Data</b>
	<b>26/05/2023 17:04:13</b>	<b>26/05/2023 17:04:14</b>	<b>Rejected</b>
	26/05/2023 17:04:14	26/05/2023 17:09:19	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:04:00</b>	<b>26/05/2023 17:04:08</b>	<b>No Data</b>
	26/05/2023 17:04:08	26/05/2023 17:04:09	Used

	26/05/2023 17:04:09	26/05/2023 17:09:19	Rejected
E5a	26/05/2023 17:04:00	26/05/2023 17:04:09	No Data
	26/05/2023 17:04:09	26/05/2023 17:04:10	Rejected
	26/05/2023 17:04:10	26/05/2023 17:09:19	Used
E5b	26/05/2023 17:04:00	26/05/2023 17:04:09	No Data
	26/05/2023 17:04:09	26/05/2023 17:04:10	Rejected
	26/05/2023 17:04:10	26/05/2023 17:09:19	Used
E5ab	26/05/2023 17:04:00	26/05/2023 17:04:09	No Data
	26/05/2023 17:04:09	26/05/2023 17:04:10	Rejected
	26/05/2023 17:04:10	26/05/2023 17:09:19	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 17:04:00	26/05/2023 17:04:48	No Data
	26/05/2023 17:04:48	26/05/2023 17:04:49	Used
	26/05/2023 17:04:49	26/05/2023 17:09:19	Rejected
E5a	26/05/2023 17:04:00	26/05/2023 17:04:49	No Data
	26/05/2023 17:04:49	26/05/2023 17:04:50	Rejected
	26/05/2023 17:04:50	26/05/2023 17:09:19	Used
E5b	26/05/2023 17:04:00	26/05/2023 17:04:49	No Data
	26/05/2023 17:04:49	26/05/2023 17:04:50	Rejected
	26/05/2023 17:04:50	26/05/2023 17:09:19	Used
E5ab	26/05/2023 17:04:00	26/05/2023 17:04:50	No Data
	26/05/2023 17:04:50	26/05/2023 17:09:19	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 17:04:00	26/05/2023 17:04:01	Rejected
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
E5a	26/05/2023 17:04:00	26/05/2023 17:04:01	Rejected
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
E5b	26/05/2023 17:04:00	26/05/2023 17:04:01	Rejected
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used
E5ab	26/05/2023 17:04:00	26/05/2023 17:04:01	Rejected
	26/05/2023 17:04:01	26/05/2023 17:09:19	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 17:04:00	26/05/2023 17:04:02	No Data
	26/05/2023 17:04:02	26/05/2023 17:04:08	Rejected
	26/05/2023 17:04:08	26/05/2023 17:09:19	Used
E5a	26/05/2023 17:04:00	26/05/2023 17:04:03	No Data
	26/05/2023 17:04:03	26/05/2023 17:04:08	Rejected
	26/05/2023 17:04:08	26/05/2023 17:09:19	Used
E5b	26/05/2023 17:04:00	26/05/2023 17:04:03	No Data
	26/05/2023 17:04:03	26/05/2023 17:04:08	Rejected
	26/05/2023 17:04:08	26/05/2023 17:09:19	Used
E5ab	26/05/2023 17:04:00	26/05/2023 17:04:03	No Data
	26/05/2023 17:04:03	26/05/2023 17:04:06	Rejected
	26/05/2023 17:04:06	26/05/2023 17:04:07	No Data
	26/05/2023 17:04:07	26/05/2023 17:04:08	Rejected
	26/05/2023 17:04:08	26/05/2023 17:09:19	Used

C12

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B2	26/05/2023 17:04:00	26/05/2023 17:09:19	Rejected
B3	26/05/2023 17:04:00	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B2	26/05/2023 17:04:00	26/05/2023 17:09:19	Rejected
B3	26/05/2023 17:04:00	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used

C21

Frequency	From Epoch	To Epoch	Status

B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B3	26/05/2023 17:04:00	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used
B2a	26/05/2023 17:04:00	26/05/2023 17:09:19	Used

#### C24

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B3	26/05/2023 17:04:00	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used
B2a	26/05/2023 17:04:00	26/05/2023 17:04:03	Used
	26/05/2023 17:04:03	26/05/2023 17:09:19	Rejected

#### C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B3	26/05/2023 17:04:00	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used
B2a	26/05/2023 17:04:00	26/05/2023 17:04:03	Used
	26/05/2023 17:04:03	26/05/2023 17:09:19	Rejected

#### C29

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:04:01	Used
	26/05/2023 17:04:01	26/05/2023 17:09:19	No Data
B3	26/05/2023 17:04:00	26/05/2023 17:04:01	Rejected
	26/05/2023 17:04:01	26/05/2023 17:09:19	No Data

#### C35

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:04:00	26/05/2023 17:09:19	Used
B3	26/05/2023 17:04:00	26/05/2023 17:04:10	Rejected
	26/05/2023 17:04:10	26/05/2023 17:09:19	Used
B2a	26/05/2023 17:04:00	26/05/2023 17:04:03	No Data
	26/05/2023 17:04:03	26/05/2023 17:04:04	Rejected
	26/05/2023 17:04:04	26/05/2023 17:09:19	Used

### Cycle Slips

Slip Count: 7

SV	Frequency	Epoch	Slip Value	Flag
E21	E1	26/05/2023 17:04:01	-	RIA
	E5a	26/05/2023 17:04:01	-	RIA
	E5b	26/05/2023 17:04:01	-	RIA
	E5ab	26/05/2023 17:04:01	-	RIA
E27	E1	26/05/2023 17:04:08	-	RIA
	E5a	26/05/2023 17:04:08	-	RIA
	E5b	26/05/2023 17:04:08	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

### Processing Messages

#### Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-05D

### Processing Parameters (26/05/2023 17:23:01 - 26/05/2023 17:29:31)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	

Sampling Rate: Use All 1.00 sec  
 Satellite System: GPS/GLONASS/Galileo/Beidou GPS/GLONASS/Galileo/Beidou  
 Ephemeris Type: Precise Precise  
 Antenna Calibration Set: NGS Absolute NGS Absolute

**Processing Strategy**

Solution Type: Phase Fixed Phase Fixed  
 Solution Optimisation: Automatic None  
 Frequency to use in Ionospheric Model: Automatic Automatic  
 Tropospheric Model: VMF with GPT2 model VMF with GPT2 model  
 Ionospheric Model: Automatic None  
 Allow Widelane Fix: Automatic Automatic

**General Settings**

Min. Distance for Ionospheric Model Minimised: 15 km  
 Possible Ambiguities Fix up to: 300 km  
 Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
 Time System: Local Time  
 Leap Seconds: 18

**Results Baseline: MOQ01058 - PAF-CU2-05D**

**Acquisition**

Start Time - End Time: 26/05/2023 17:23:01 - 26/05/2023 17:29:31  
 Duration: 00:06:30

**Antennas**

	Reference - MOQ01058	Rover - PAF-CU2-05D
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.431 m	2.000 m
Antenna Height:	1.431 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-05D	Reference - MOQ01058	Rover - PAF-CU2-05D
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 03' 43.55793" S	Easting: 318,107.441 m	315,866.203 m
WGS84 Longitude:	-	70° 43' 48.82635" W	Northing: 8,117,307.121 m	8,112,759.268 m
WGS84 Ellip. Height:	-	3,808.077 m	Ortho. Height: 3,897.429 m	3,767.134 m
WGS84 Cartesian X:	-	2,014,029.408 m		
WGS84 Cartesian Y:	-	-5,760,907.210 m		
WGS84 Cartesian Z:	-	-1,860,521.860 m		

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 02' 27.28891"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 01' 17.13591"	SD ΔLongitude:	0.000 m
ΔHeight:	-130.834 m	SD ΔHeight:	0.000 m
ΔX:	-2,634.225 m	SD ΔX:	0.000 m
ΔY:	617.718 m	SD ΔY:	0.000 m
ΔZ:	-4,293.385 m	SD ΔZ:	0.000 m
Slope Dist.:	5,074.827 m	SD Slope Dist.:	0.000 m

M0:	0.386 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000019	CQ 3D:	0.000 m
Q22:	0.00000103		
Q13:	-0.00000003		
Q23:	0.00000010		
Q33:	0.00000007		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.1 - 3.7	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	2.0 - 2.3	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.8	Beidou SVs:	6/6
		VDOP:	1.8 - 2.2	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (26/05/2023 17:23:01 - 26/05/2023 17:29:31)

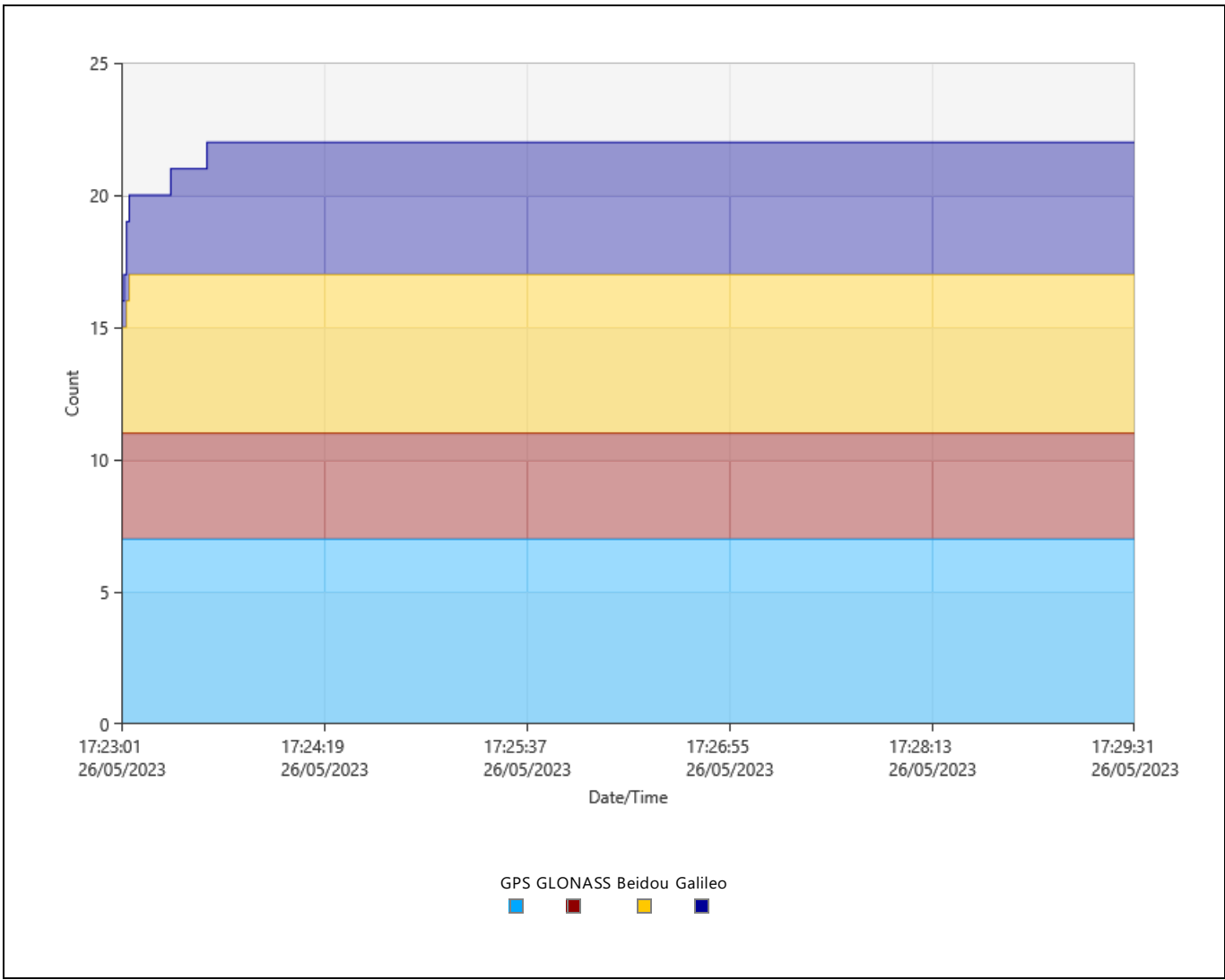
---

Processed Date/Time: 09/06/2023 17:54:21

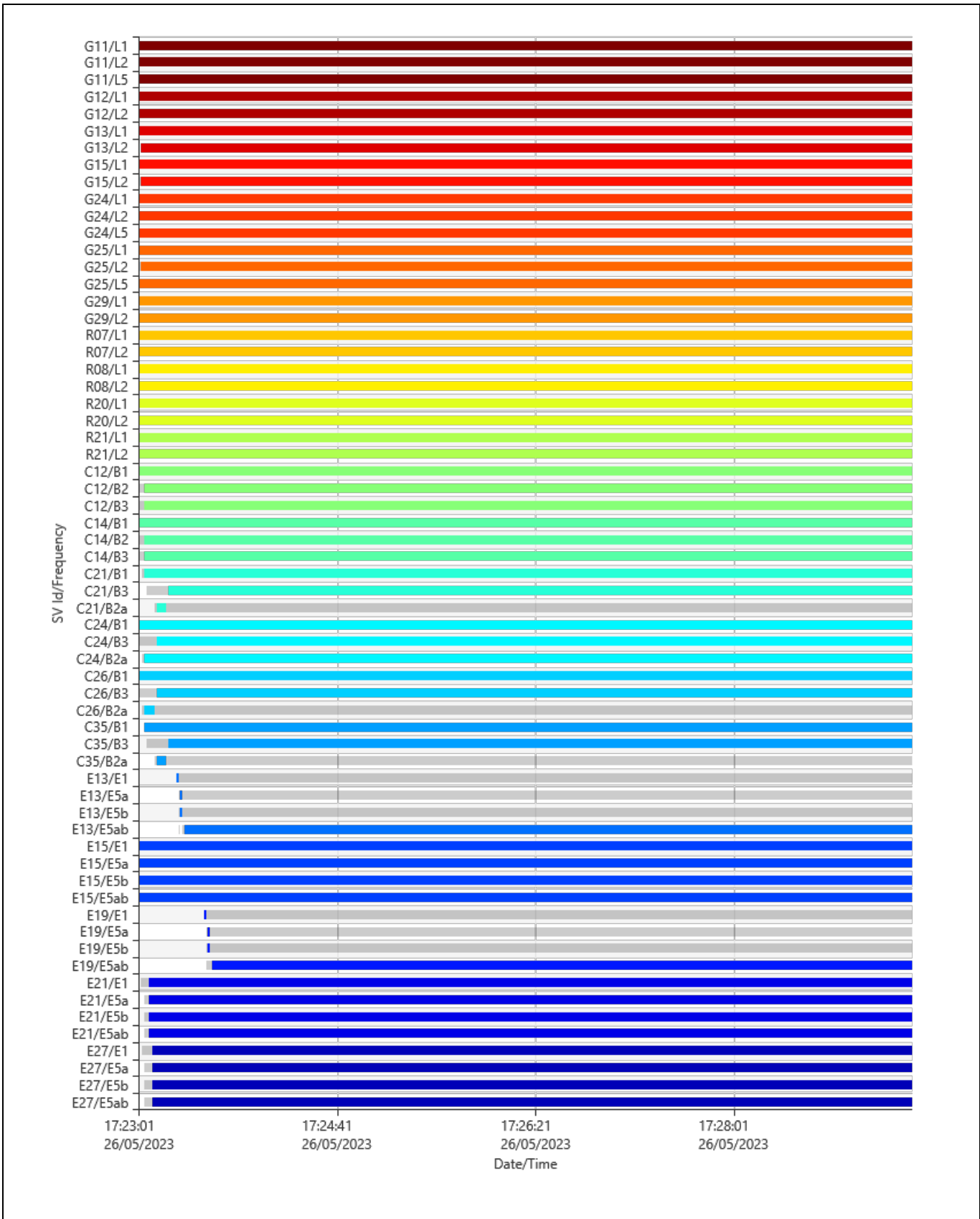
### Satellites

Satellite System	Used	Manually Disabled
GPS	G11 G12 G13 G15 G24 G25 G29	-
GLONASS	R07 R08 R20 R21	-
Beidou	C12 C14 C21 C24 C26 C35	-
Galileo	E13 E15 E19 E21 E27	-

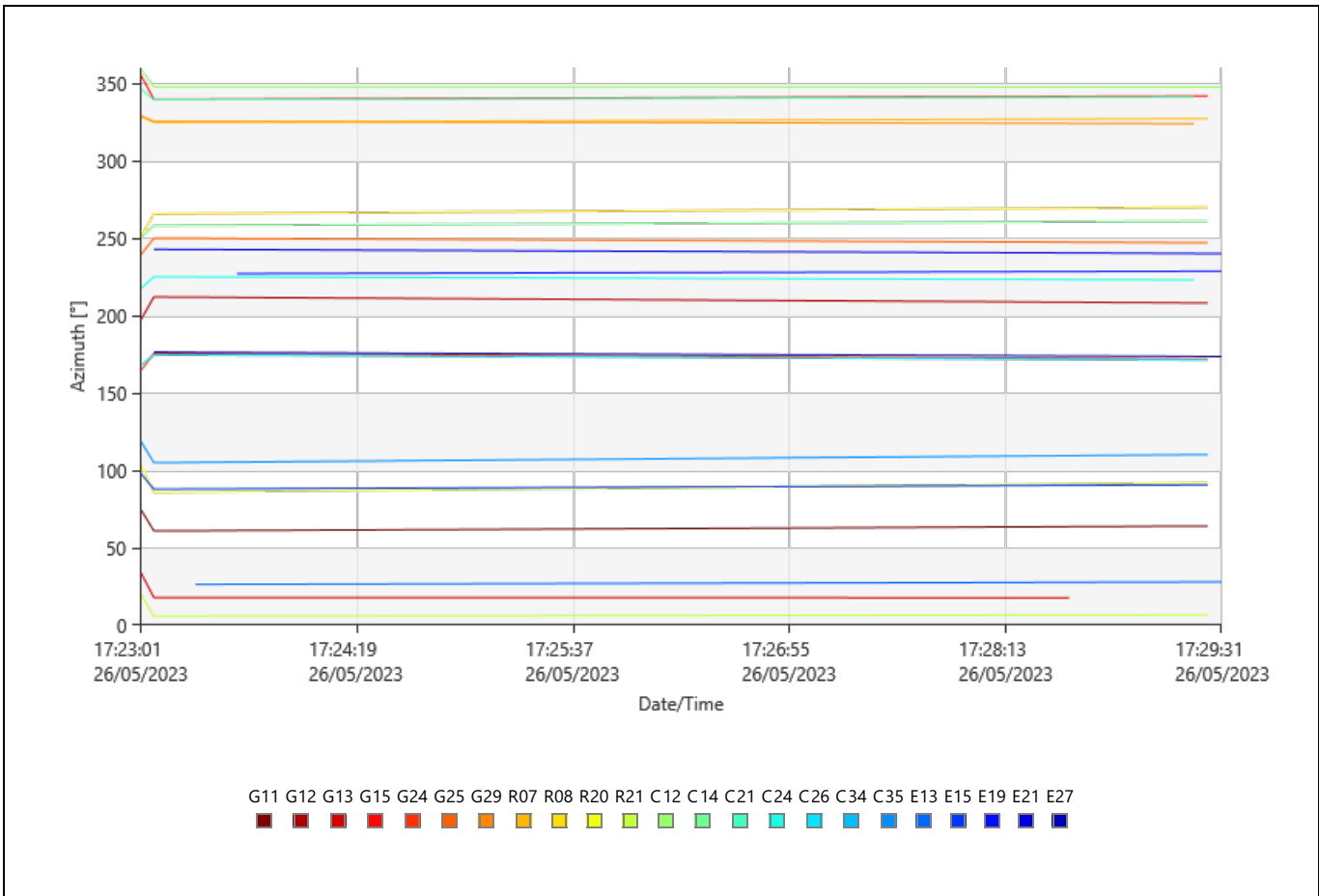
### SVs Tracked



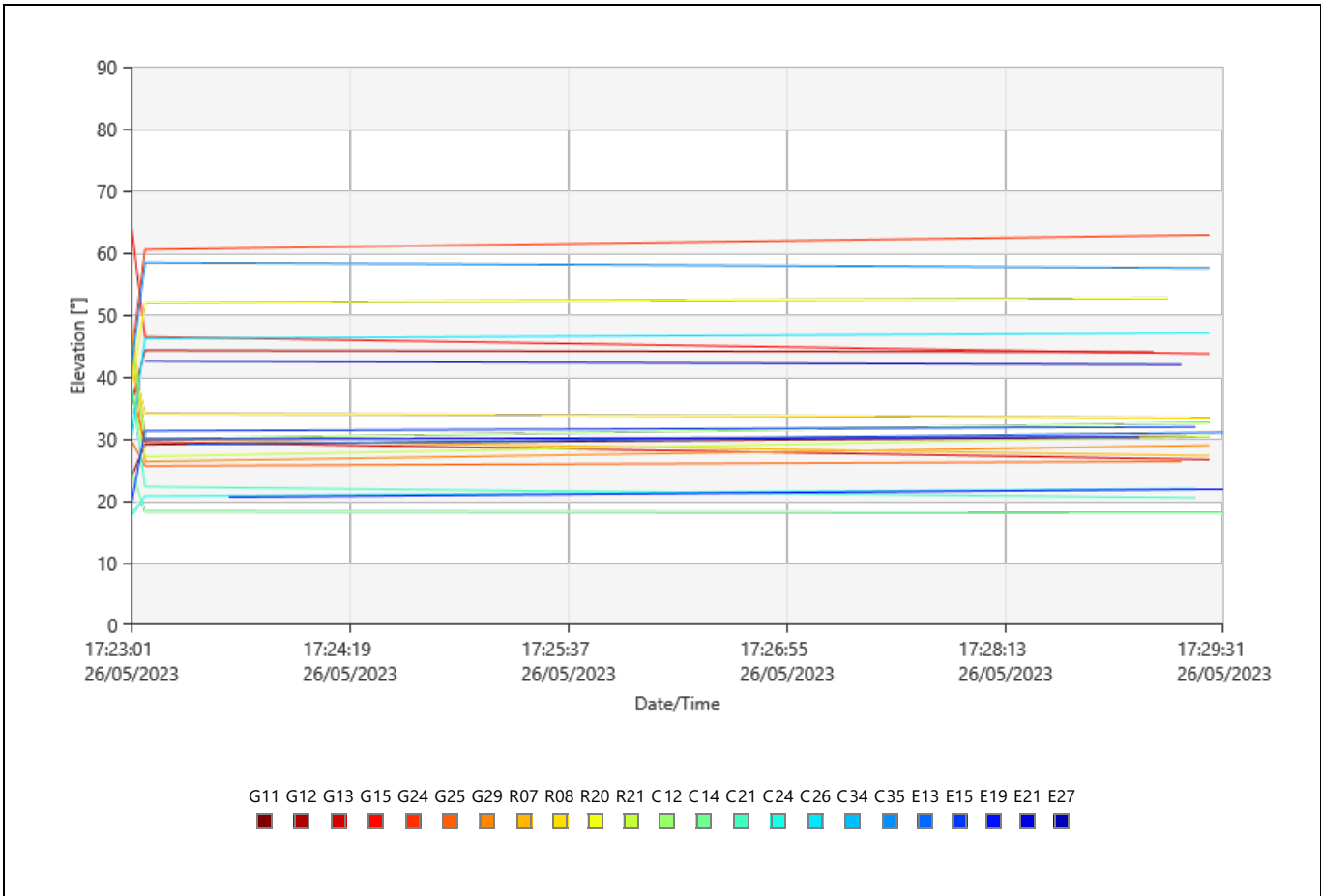
**Signals Tracked**



Azimuth

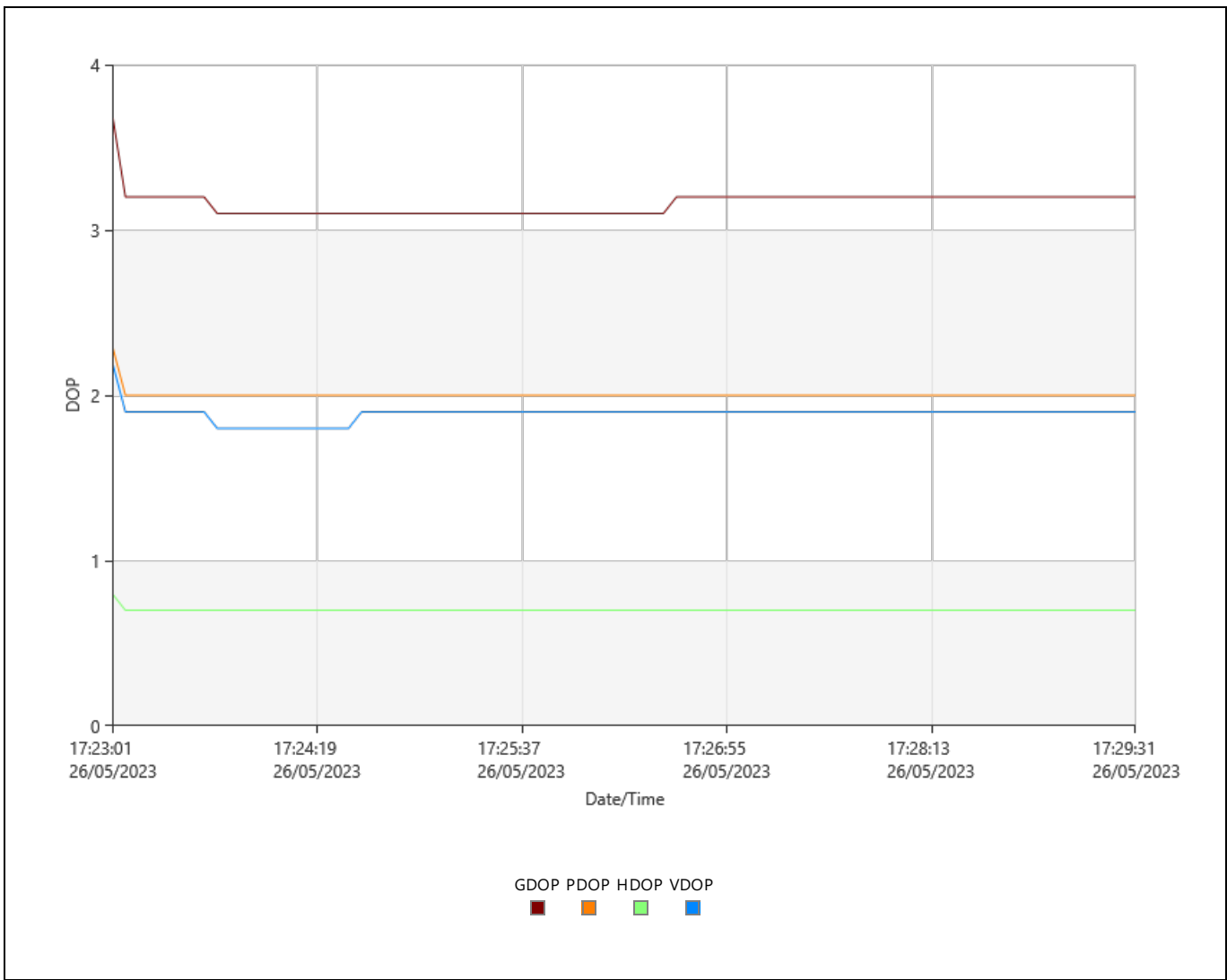


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 391

#### GPS Observations

Frequency	Used	Rejected
L1	2,737	0
L2	2,734	2
L5	1,173	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,564	0
L2	1,564	0

#### Beidou Observations

Frequency	Used	Rejected
B1	2,340	1
B2	776	6
B3	2,292	46
B2a	403	1,141

#### Galileo Observations

Frequency	Used	Rejected
E1	1,163	737
E5a	1,163	732
E5b	1,163	732
E5ab	1,883	11

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	22	10	18	24
Total	24	10	18	37
Independently fixed	49	49	49	48
Possible independently fixed	49	49	49	49

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou				Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B2 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	99.94	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.61	99.69	99.69	99.60
Not fixed	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.31	0.31	0.40
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	26/05/2023 17:23:01	26/05/2023 17:29:31	00:06:30

## Residuals

### Tracking Status

#### G11

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L5	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:02</b>	<b>No Data</b>
	26/05/2023 17:23:02	26/05/2023 17:29:31	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:02</b>	<b>No Data</b>
	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:02</b>	<b>Rejected</b>
	26/05/2023 17:23:02	26/05/2023 17:29:31	Used
	<b>26/05/2023 17:23:02</b>	<b>26/05/2023 17:29:31</b>	<b>No Data</b>

#### G24

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L5	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### G25

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:02</b>	<b>Rejected</b>
	26/05/2023 17:23:02	26/05/2023 17:29:31	Used
L5	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### G29

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### R07

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### R08

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### R20

Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

#### R21

Frequency	From Epoch	To Epoch	Status
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Frequency	From Epoch	To Epoch	Status
L1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
L2	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:20</b>	<b>No Data</b>
	26/05/2023 17:23:20	26/05/2023 17:23:21	Used
	<b>26/05/2023 17:23:21</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
E5a	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:21</b>	<b>No Data</b>
	<b>26/05/2023 17:23:21</b>	<b>26/05/2023 17:23:22</b>	<b>Rejected</b>
	26/05/2023 17:23:22	26/05/2023 17:23:23	Used
E5b	<b>26/05/2023 17:23:23</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:21</b>	<b>No Data</b>
	<b>26/05/2023 17:23:21</b>	<b>26/05/2023 17:23:22</b>	<b>Rejected</b>
E5ab	26/05/2023 17:23:22	26/05/2023 17:23:23	Used
	<b>26/05/2023 17:23:23</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:21</b>	<b>No Data</b>
E5ab	<b>26/05/2023 17:23:21</b>	<b>26/05/2023 17:23:22</b>	<b>Rejected</b>
	<b>26/05/2023 17:23:22</b>	<b>26/05/2023 17:23:23</b>	<b>No Data</b>
	<b>26/05/2023 17:23:23</b>	<b>26/05/2023 17:23:24</b>	<b>Rejected</b>
	26/05/2023 17:23:24	26/05/2023 17:29:31	Used

E15

Frequency	From Epoch	To Epoch	Status
E1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
E5a	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
E5b	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
E5ab	26/05/2023 17:23:01	26/05/2023 17:29:31	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:34</b>	<b>No Data</b>
	26/05/2023 17:23:34	26/05/2023 17:23:35	Used
	<b>26/05/2023 17:23:35</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
E5a	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:35</b>	<b>No Data</b>
	<b>26/05/2023 17:23:35</b>	<b>26/05/2023 17:23:36</b>	<b>Rejected</b>
	26/05/2023 17:23:36	26/05/2023 17:23:37	Used
E5b	<b>26/05/2023 17:23:37</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:35</b>	<b>No Data</b>
	<b>26/05/2023 17:23:35</b>	<b>26/05/2023 17:23:36</b>	<b>Rejected</b>
E5ab	26/05/2023 17:23:36	26/05/2023 17:23:37	Used
	<b>26/05/2023 17:23:37</b>	<b>26/05/2023 17:29:31</b>	<b>Rejected</b>
	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:35</b>	<b>No Data</b>
E5ab	<b>26/05/2023 17:23:35</b>	<b>26/05/2023 17:23:38</b>	<b>Rejected</b>
	26/05/2023 17:23:38	26/05/2023 17:29:31	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:02</b>	<b>No Data</b>
	<b>26/05/2023 17:23:02</b>	<b>26/05/2023 17:23:06</b>	<b>Rejected</b>
	26/05/2023 17:23:06	26/05/2023 17:29:31	Used
E5a	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:04</b>	<b>No Data</b>
	<b>26/05/2023 17:23:04</b>	<b>26/05/2023 17:23:06</b>	<b>Rejected</b>
	26/05/2023 17:23:06	26/05/2023 17:29:31	Used
E5b	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:04</b>	<b>No Data</b>
	<b>26/05/2023 17:23:04</b>	<b>26/05/2023 17:23:06</b>	<b>Rejected</b>
	26/05/2023 17:23:06	26/05/2023 17:29:31	Used
E5ab	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:04</b>	<b>No Data</b>
	<b>26/05/2023 17:23:04</b>	<b>26/05/2023 17:23:06</b>	<b>Rejected</b>
	26/05/2023 17:23:06	26/05/2023 17:29:31	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:03</b>	<b>No Data</b>
	<b>26/05/2023 17:23:03</b>	<b>26/05/2023 17:23:08</b>	<b>Rejected</b>
	26/05/2023 17:23:08	26/05/2023 17:29:31	Used
E5a	<b>26/05/2023 17:23:01</b>	<b>26/05/2023 17:23:04</b>	<b>No Data</b>
	<b>26/05/2023 17:23:04</b>	<b>26/05/2023 17:23:08</b>	<b>Rejected</b>
	26/05/2023 17:23:08	26/05/2023 17:29:31	Used

E5b	26/05/2023 17:23:01	26/05/2023 17:23:04	No Data
	26/05/2023 17:23:04	26/05/2023 17:23:08	Rejected
	26/05/2023 17:23:08	26/05/2023 17:29:31	Used
E5ab	26/05/2023 17:23:01	26/05/2023 17:23:04	No Data
	26/05/2023 17:23:04	26/05/2023 17:23:08	Rejected
	26/05/2023 17:23:08	26/05/2023 17:29:31	Used

C12

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
B2	26/05/2023 17:23:01	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used

C14

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
B2	26/05/2023 17:23:01	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used

C21

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:23:03	No Data
	26/05/2023 17:23:03	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:05	No Data
	26/05/2023 17:23:05	26/05/2023 17:23:16	Rejected
	26/05/2023 17:23:16	26/05/2023 17:29:31	Used
B2a	26/05/2023 17:23:01	26/05/2023 17:23:09	No Data
	26/05/2023 17:23:09	26/05/2023 17:23:10	Rejected
	26/05/2023 17:23:10	26/05/2023 17:23:15	Used
	26/05/2023 17:23:15	26/05/2023 17:29:31	Rejected

C24

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:10	Rejected
	26/05/2023 17:23:10	26/05/2023 17:29:31	Used
B2a	26/05/2023 17:23:01	26/05/2023 17:23:03	No Data
	26/05/2023 17:23:03	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used

C26

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:10	Rejected
	26/05/2023 17:23:10	26/05/2023 17:29:31	Used
B2a	26/05/2023 17:23:01	26/05/2023 17:23:03	No Data
	26/05/2023 17:23:03	26/05/2023 17:23:04	Rejected
	26/05/2023 17:23:04	26/05/2023 17:23:09	Used
	26/05/2023 17:23:09	26/05/2023 17:29:31	Rejected

C35

Frequency	From Epoch	To Epoch	Status
B1	26/05/2023 17:23:01	26/05/2023 17:23:04	No Data
	26/05/2023 17:23:04	26/05/2023 17:29:31	Used
B3	26/05/2023 17:23:01	26/05/2023 17:23:05	No Data
	26/05/2023 17:23:05	26/05/2023 17:23:16	Rejected
	26/05/2023 17:23:16	26/05/2023 17:29:31	Used
B2a	26/05/2023 17:23:01	26/05/2023 17:23:09	No Data
	26/05/2023 17:23:09	26/05/2023 17:23:10	Rejected
	26/05/2023 17:23:10	26/05/2023 17:23:15	Used
	26/05/2023 17:23:15	26/05/2023 17:29:31	Rejected

Cycle Slips

SV	Frequency	Epoch	Slip Value	Flag
G06	L2	26/05/2023 17:23:02	-	RIA
G25	L2	26/05/2023 17:23:02	-	RIA
E21	E1	26/05/2023 17:23:06	-	RIA
	E5a	26/05/2023 17:23:06	-	RIA
	E5b	26/05/2023 17:23:06	-	RIA
	E5ab	26/05/2023 17:23:06	-	RIA
E27	E1	26/05/2023 17:23:08	-	RIA
	E5a	26/05/2023 17:23:08	-	RIA
	E5b	26/05/2023 17:23:08	-	RIA
	E5ab	26/05/2023 17:23:08	-	RIA
E30	E1	26/05/2023 17:23:02	-	RIA
	E5a	26/05/2023 17:23:02	-	RIA
	E5b	26/05/2023 17:23:02	-	RIA
	E5ab	26/05/2023 17:23:02	-	RIA
E19	E5ab	26/05/2023 17:23:38	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-1E

### Processing Parameters (29/05/2023 11:27:40 - 29/05/2023 11:33:20)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-1E

### Acquisition

Start Time - End Time: 29/05/2023 11:27:40 - 29/05/2023 11:33:20  
Duration: 00:05:40

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-1E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-1E	Reference - MOQ01058	Rover - PAF-CU2-1E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 01' 52.04826" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 42' 16.43458" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,500.805 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,016,844.857 m		3,459.348 m
WGS84 Cartesian Y:	-	-5,760,676.232 m		
WGS84 Cartesian Z:	-	-1,857,152.512 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 35.77925"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 15.25587"	SD ΔLongitude:	0.000 m
ΔHeight:	-438.106 m	SD ΔHeight:	0.000 m
ΔX:	181.225 m	SD ΔX:	0.000 m
ΔY:	848.696 m	SD ΔY:	0.000 m
ΔZ:	-924.037 m	SD ΔZ:	0.000 m
Slope Dist.:	1,267.664 m	SD Slope Dist.:	0.000 m

M0:	0.489 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000007	CQ 3D:	0.000 m
Q22:	0.00000038		
Q13:	-0.00000001		
Q23:	0.00000011		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 2.4	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.2 - 1.4	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.6	Beidou SVs:	5/5
		VDOP:	1.0 - 1.2	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:  
GPS: Precise  
GLONASS: Precise  
Beidou: Precise  
Galileo: Precise

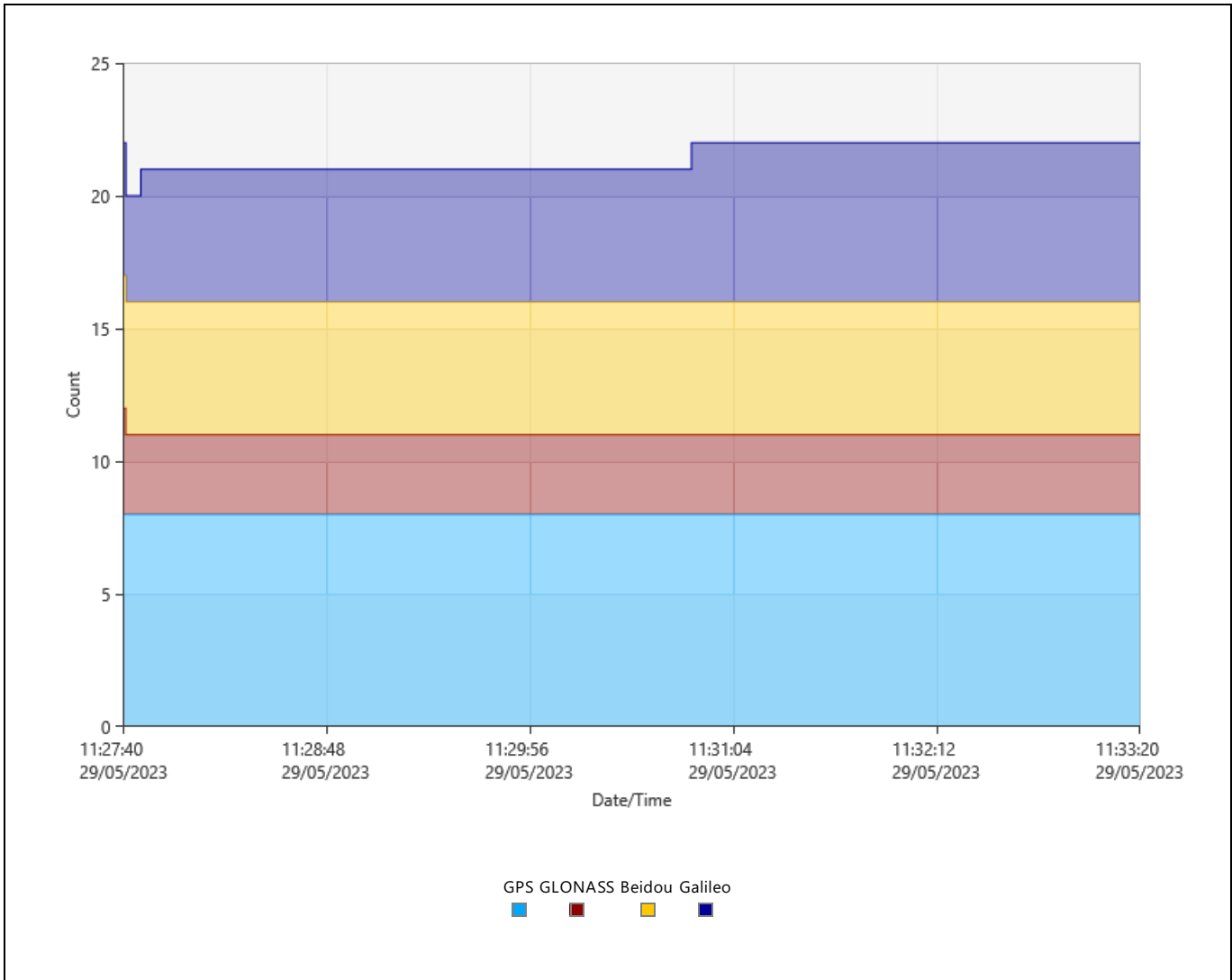
## Processing Info (29/05/2023 11:27:40 - 29/05/2023 11:33:20)

Processed Date/Time: 09/06/2023 17:54:21

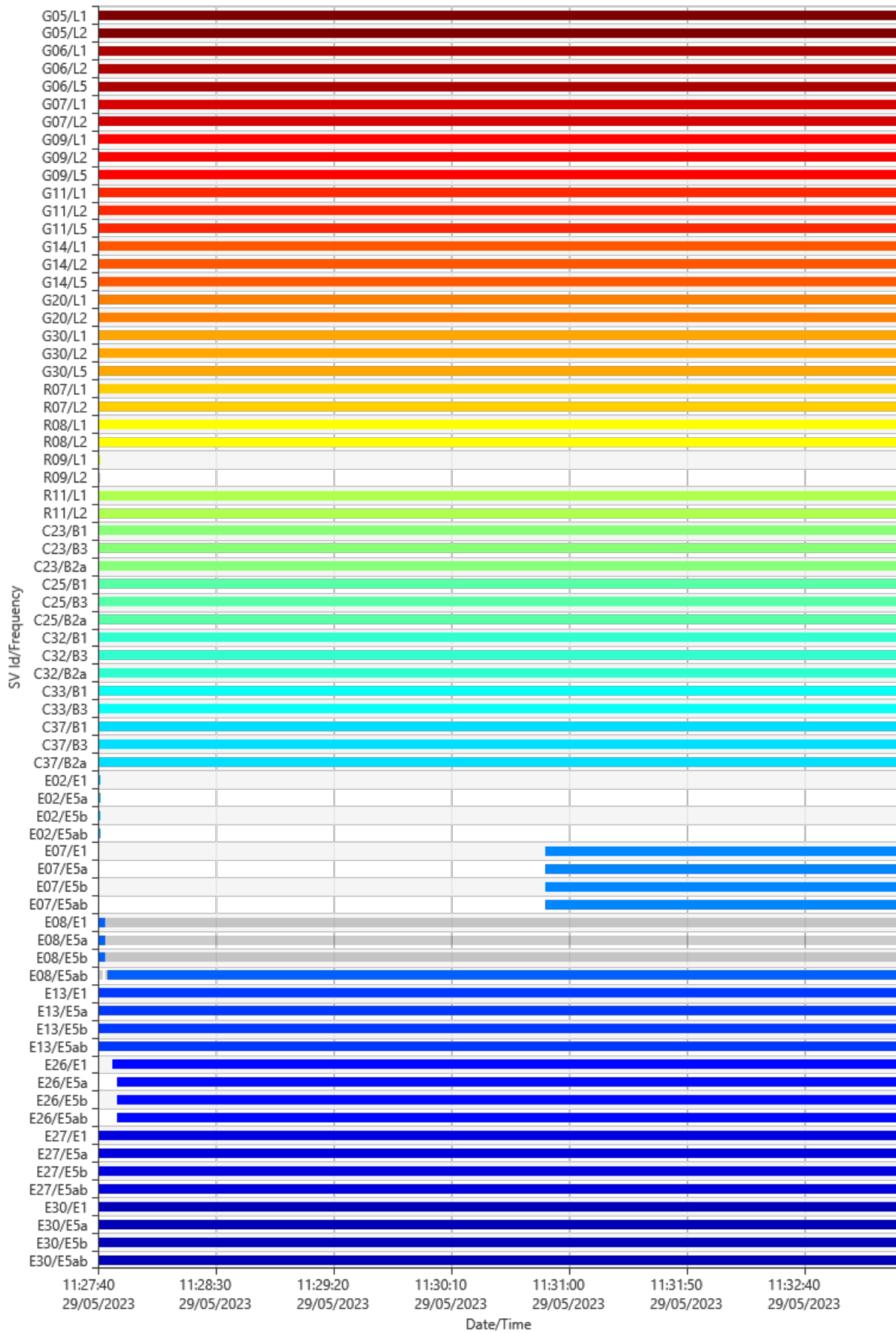
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G06 G07 G09 G11 G14 G20 G30	-
GLONASS	R07 R08 R09 R11	-
Beidou	C23 C25 C32 C33 C37	-
Galileo	E02 E07 E08 E13 E26 E27 E30	-

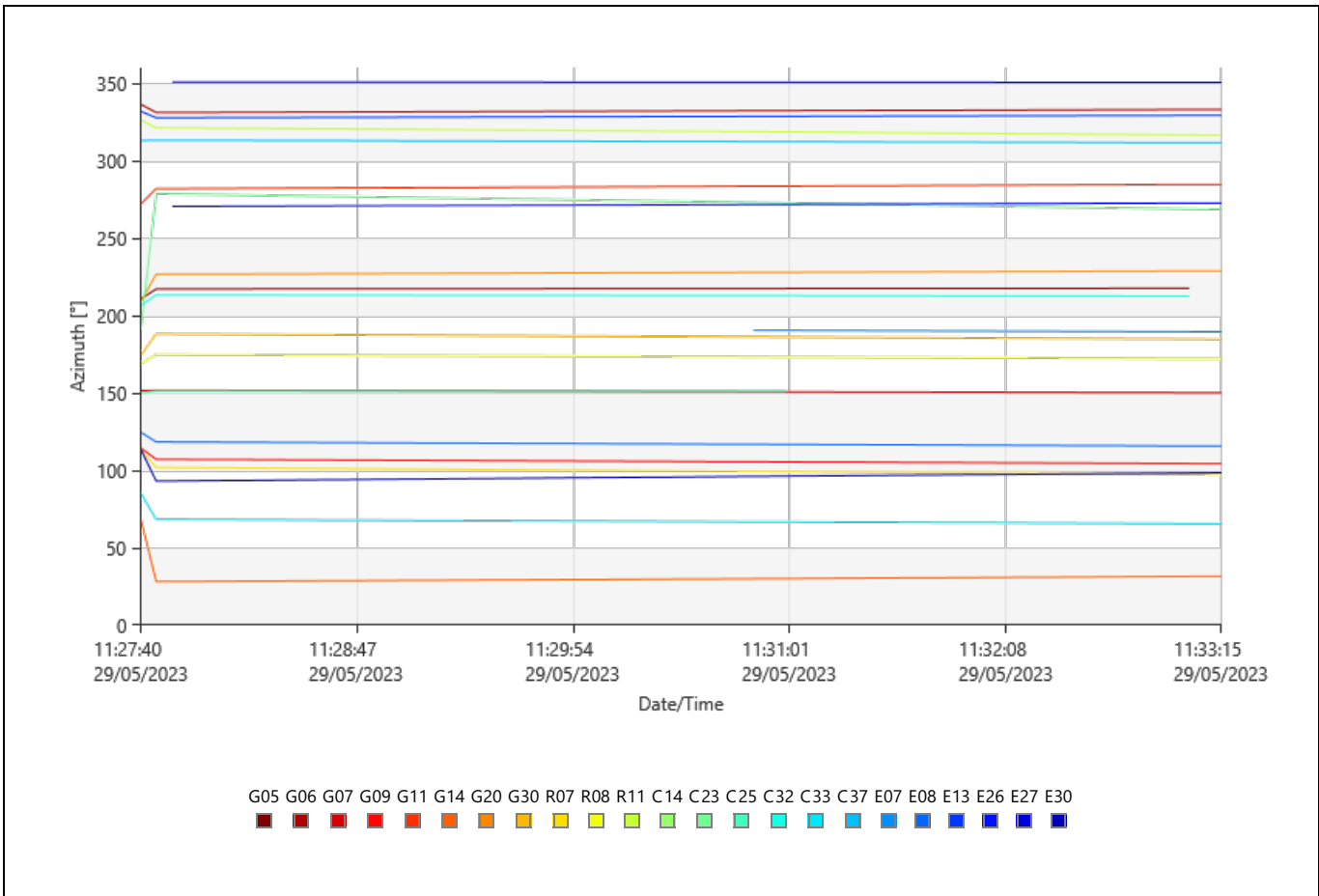
## SVs Tracked



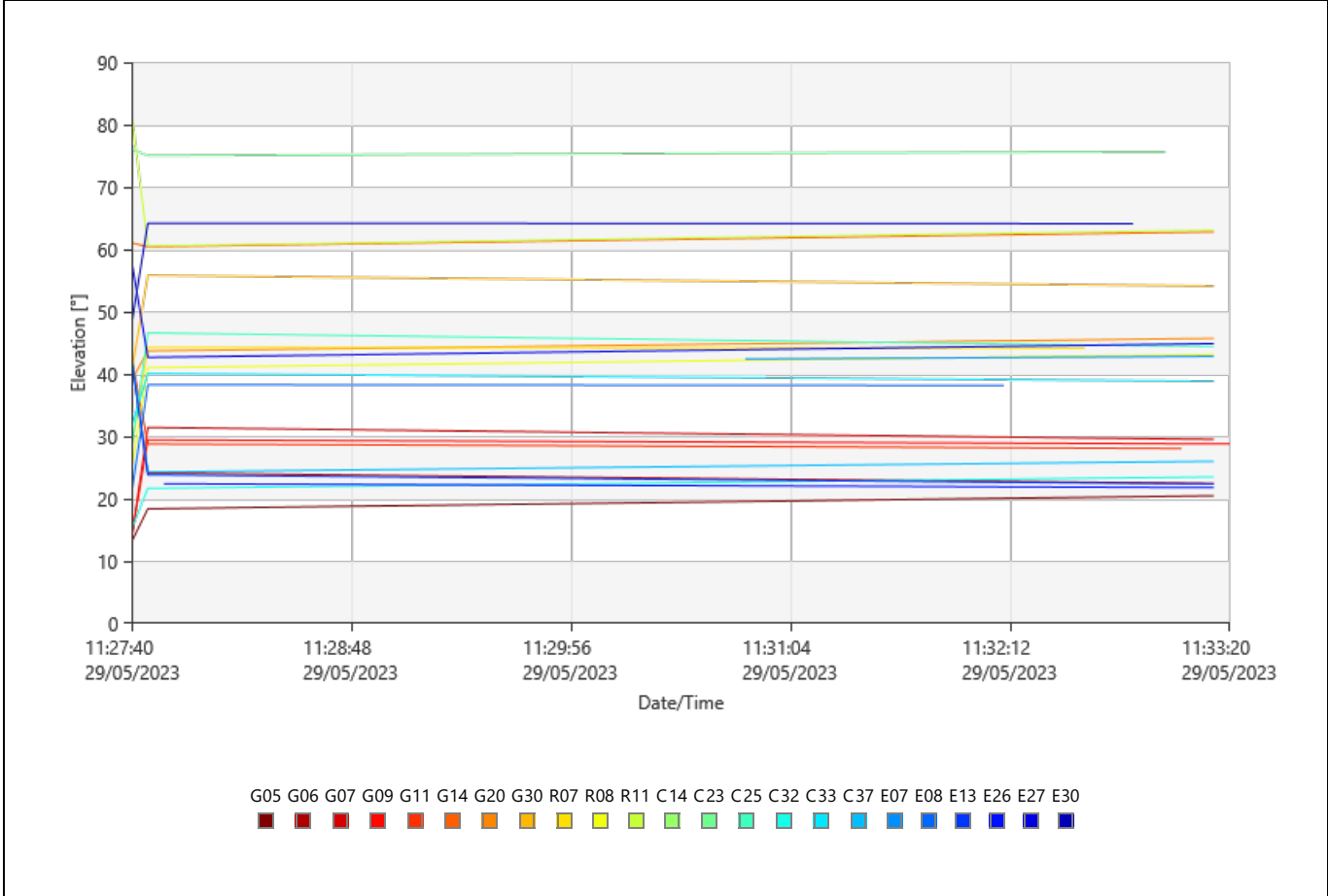
## Signals Tracked



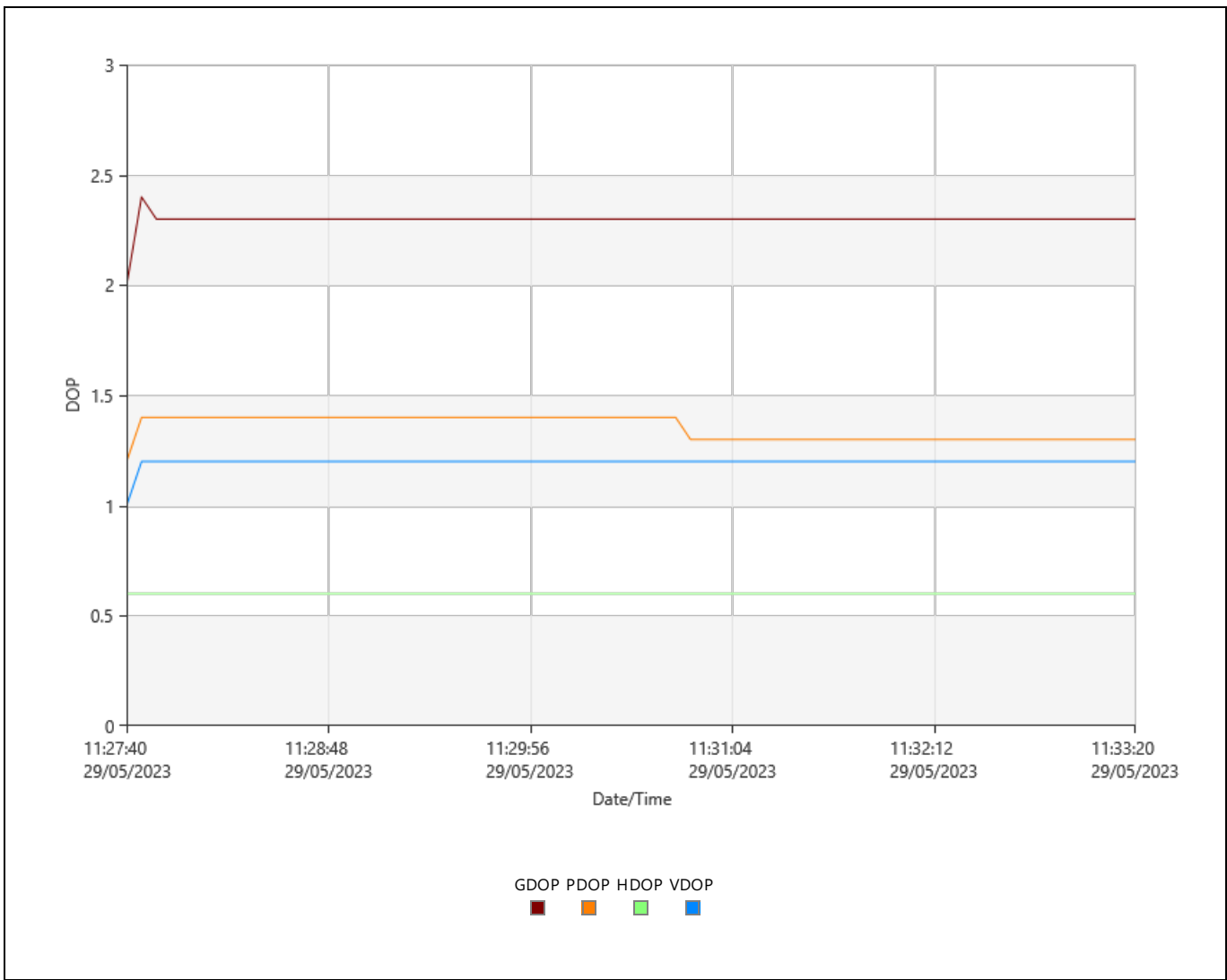




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 341

#### GPS Observations

Frequency	Used	Rejected
L1	2,728	0
L2	2,728	0
L5	1,705	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,024	0
L2	1,023	1

#### Beidou Observations

Frequency	Used	Rejected
B1	1,705	0
B3	1,705	0
B2a	1,364	0

#### Galileo Observations

Frequency	Used	Rejected
E1	1,513	338
E5a	1,511	338
E5b	1,511	338
E5ab	1,845	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	21	8	14	28
Total	21	8	14	29
Independently fixed	42	42	42	42
Possible independently fixed	42	42	42	42

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.91
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 11:27:40	29/05/2023 11:33:20	00:05:40

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G06

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L5	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G09

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L5	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L5	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L5	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L5	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### R07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

#### R09

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:27:41	Used
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data

L2	29/05/2023 11:27:40	29/05/2023 11:27:41	Rejected
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data

R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
L2	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

E02

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:27:41	Used
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data
E5a	29/05/2023 11:27:40	29/05/2023 11:27:41	Used
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data
E5b	29/05/2023 11:27:40	29/05/2023 11:27:41	Used
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data
E5ab	29/05/2023 11:27:40	29/05/2023 11:27:41	Used
	29/05/2023 11:27:41	29/05/2023 11:33:20	No Data

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:30:50	No Data
	29/05/2023 11:30:50	29/05/2023 11:33:20	Used
E5a	29/05/2023 11:27:40	29/05/2023 11:30:50	No Data
	29/05/2023 11:30:50	29/05/2023 11:33:20	Used
E5b	29/05/2023 11:27:40	29/05/2023 11:30:50	No Data
	29/05/2023 11:30:50	29/05/2023 11:33:20	Used
E5ab	29/05/2023 11:27:40	29/05/2023 11:30:50	No Data
	29/05/2023 11:30:50	29/05/2023 11:33:20	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:27:43	Used
	29/05/2023 11:27:43	29/05/2023 11:33:20	Rejected
E5a	29/05/2023 11:27:40	29/05/2023 11:27:43	Used
	29/05/2023 11:27:43	29/05/2023 11:33:20	Rejected
E5b	29/05/2023 11:27:40	29/05/2023 11:27:43	Used
	29/05/2023 11:27:43	29/05/2023 11:33:20	Rejected
E5ab	29/05/2023 11:27:40	29/05/2023 11:27:42	Rejected
	29/05/2023 11:27:42	29/05/2023 11:27:43	No Data
	29/05/2023 11:27:43	29/05/2023 11:27:44	Rejected
	29/05/2023 11:27:44	29/05/2023 11:33:20	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5b	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5ab	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:27:46	No Data
	29/05/2023 11:27:46	29/05/2023 11:33:20	Used
E5a	29/05/2023 11:27:40	29/05/2023 11:27:48	No Data
	29/05/2023 11:27:48	29/05/2023 11:33:20	Used
E5b	29/05/2023 11:27:40	29/05/2023 11:27:48	No Data
	29/05/2023 11:27:48	29/05/2023 11:33:20	Used
E5ab	29/05/2023 11:27:40	29/05/2023 11:27:48	No Data
	29/05/2023 11:27:48	29/05/2023 11:33:20	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5b	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5ab	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5b	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
E5ab	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

### C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B3	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B2a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

### C25

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B3	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B2a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

### C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B3	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B2a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

### C33

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B3	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

### C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B3	29/05/2023 11:27:40	29/05/2023 11:33:20	Used
B2a	29/05/2023 11:27:40	29/05/2023 11:33:20	Used

## Cycle Slips

Slip Count: 0

## Processing Messages

### Warning

Missing orbits for satellite R06.  
Missing orbits for satellite R10.  
Missing orbits for satellite R22.  
Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-2E

## Processing Parameters (29/05/2023 11:39:26 - 29/05/2023 11:45:23)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic

Tropospheric Model: VMF with GPT2 model VMF with GPT2 model  
 Ionospheric Model: Automatic None  
 Allow Widelane Fix: Automatic Automatic

**General Settings**

Min. Distance for Lono Minimised: 15 km  
 Possible Ambiguities Fix up to: 300 km  
 Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
 Time System: Local Time  
 Leap Seconds: 18

**Results Baseline: MQ01058 - PAF-CU2-2E**

**Acquisition**

Start Time - End Time: 29/05/2023 11:39:26 - 29/05/2023 11:45:23  
 Duration: 00:05:57

**Antennas**

	Reference - MQ01058	Rover - PAF-CU2-2E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MQ01058	Rover - PAF-CU2-2E		Reference - MQ01058	Rover - PAF-CU2-2E
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 16.87304" S	Easting:	318,107.441 m	318,928.268 m
WGS84 Longitude:	-	70° 42' 04.48444" W	Northing:	8,117,307.121 m	8,115,451.131 m
WGS84 Ellip. Height:	-	3,433.238 m	Ortho. Height:	3,897.429 m	3,391.799 m
WGS84 Cartesian X:	-	2,017,083.326 m			
WGS84 Cartesian Y:	-	-5,760,287.285 m			
WGS84 Cartesian Z:	-	-1,857,862.789 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 01' 00.60402"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 27.20601"	SD ΔLongitude:	0.000 m
ΔHeight:	-505.673 m	SD ΔHeight:	0.000 m
ΔX:	419.693 m	SD ΔX:	0.000 m
ΔY:	1,237.644 m	SD ΔY:	0.000 m
ΔZ:	-1,634.314 m	SD ΔZ:	0.000 m
Slope Dist.:	2,092.579 m	SD Slope Dist.:	0.000 m
M0:	0.444 m	CQ 1D:	0.000 m

Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000009	CQ 3D:	0.000 m
Q22:	0.00000043		
Q13:	-0.00000002		
Q23:	0.00000012		
Q33:	0.00000010		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.9 - 3.1	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.2 - 1.7	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.5 - 0.7	Beidou SVs:	5/5
		VDOP:	1.0 - 1.5	Galileo SVs:	6/6
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

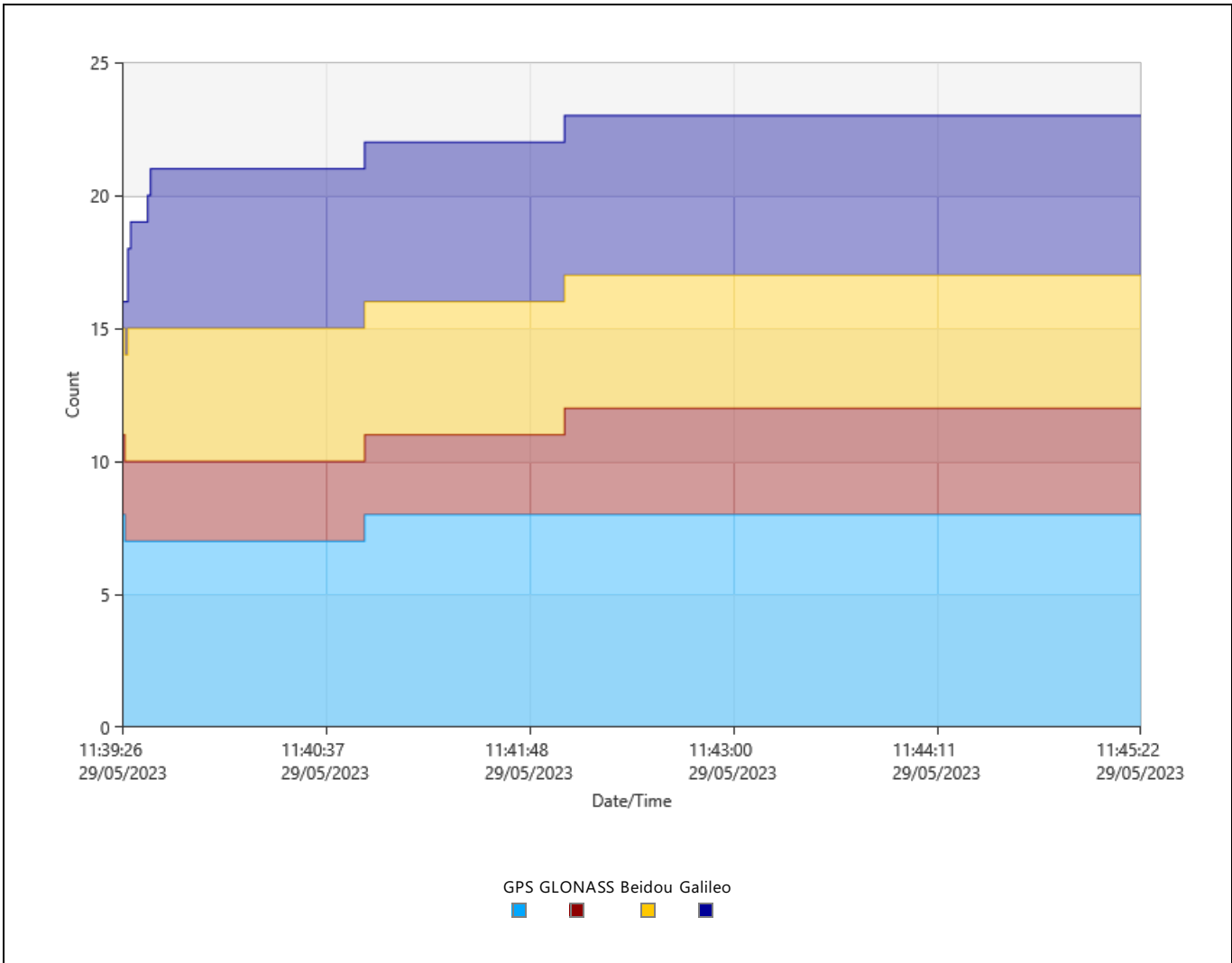
### Processing Info (29/05/2023 11:39:26 - 29/05/2023 11:45:23)

Processed Date/Time: 09/06/2023 17:54:21

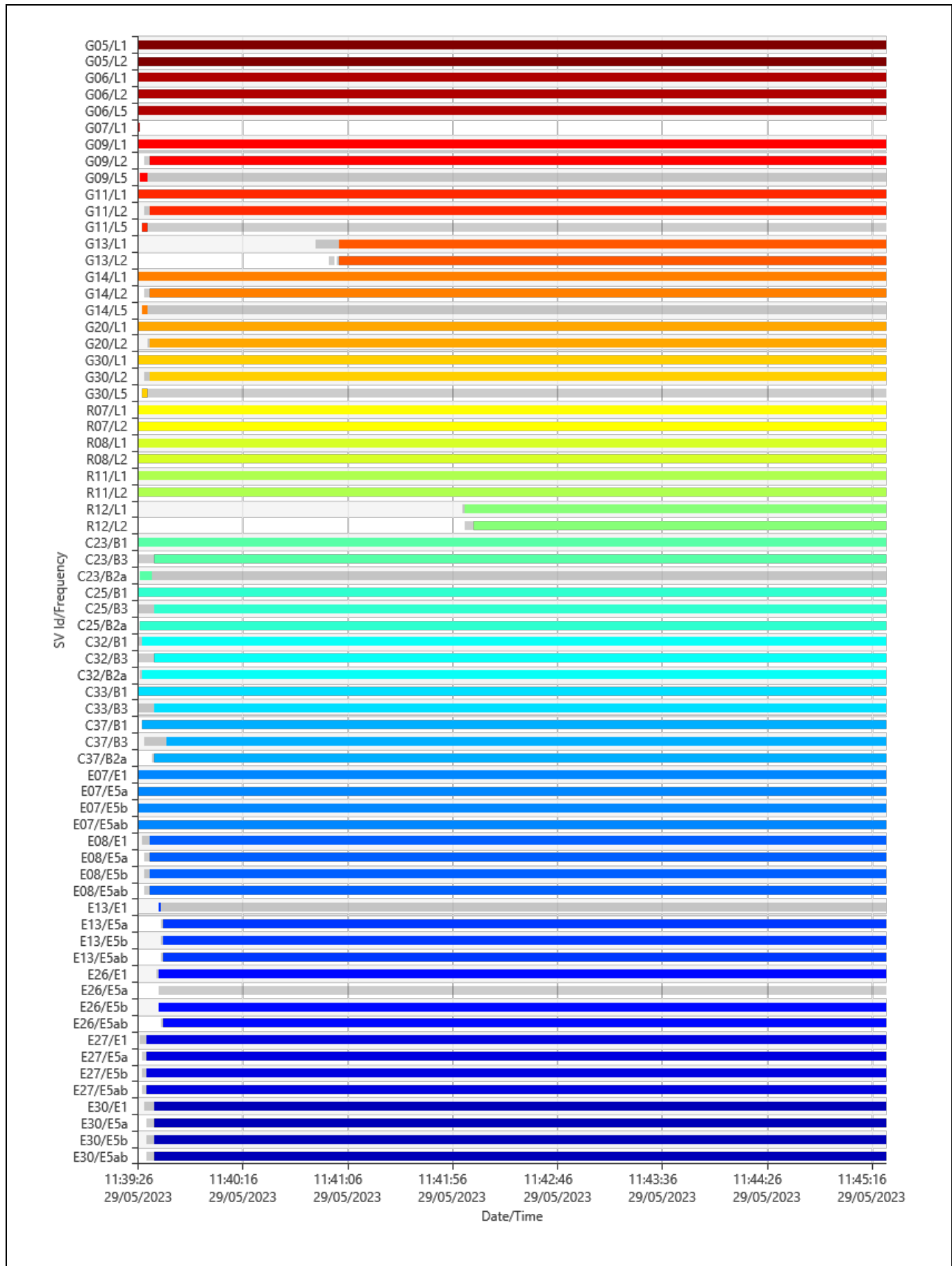
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G06 G07 G09 G11 G13 G14 G20 G30	-
GLONASS	R07 R08 R11 R12	-
Beidou	C23 C25 C32 C33 C37	-
Galileo	E07 E08 E13 E26 E27 E30	-

### SVs Tracked

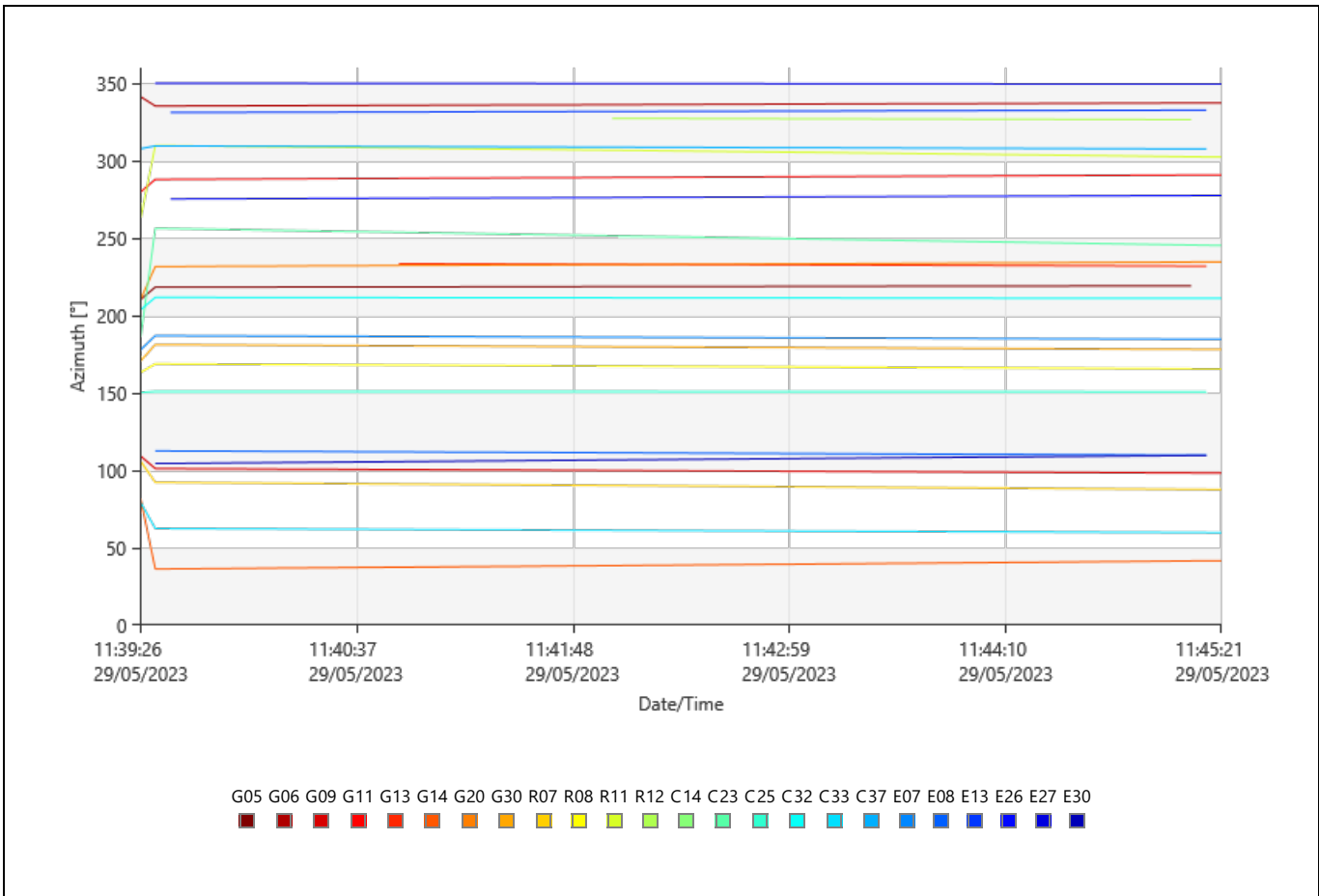


Signals Tracked

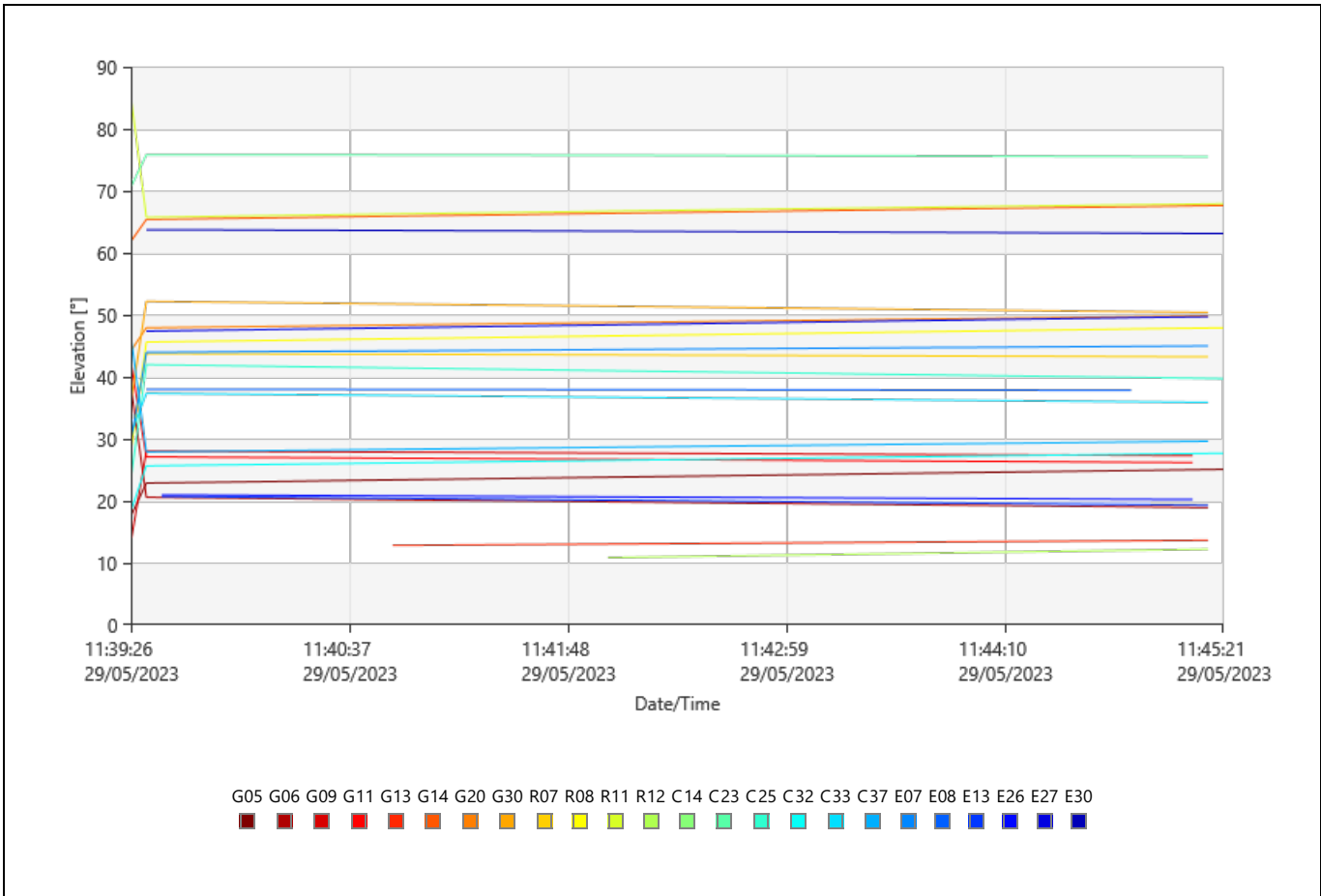


Azimuth

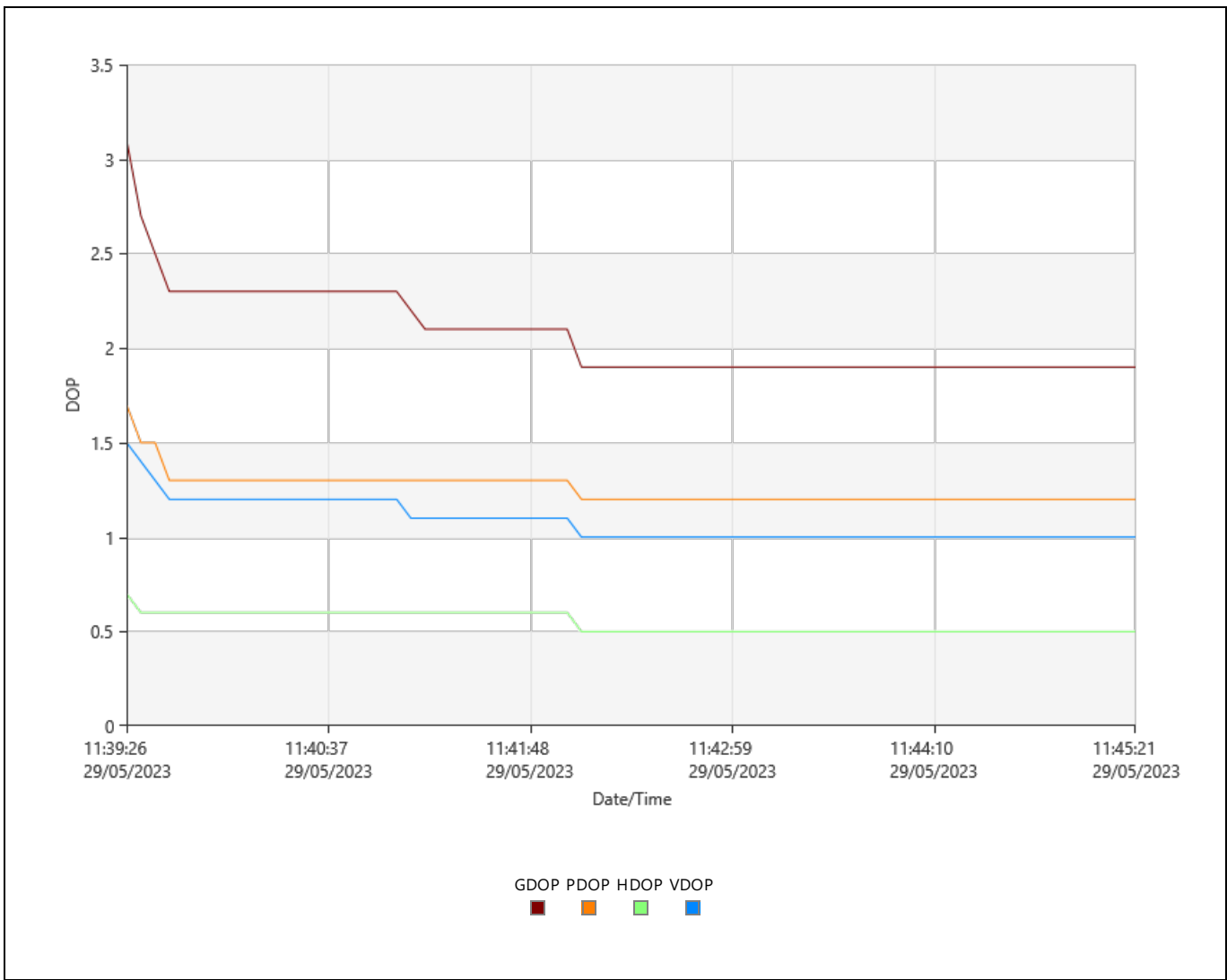




**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 358

#### GPS Observations

Frequency	Used	Rejected
L1	2,769	11
L2	2,738	17
L5	371	1,412

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,276	1
L2	1,272	4

#### Beidou Observations

Frequency	Used	Rejected
B1	1,786	2
B3	1,744	43
B2a	1,069	353

#### Galileo Observations

Frequency	Used	Rejected
E1	1,763	360
E5a	1,760	358
E5b	2,108	10
E5ab	2,106	11

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	23	8	14	24
Total	25	8	16	36
Independently fixed	44	44	44	43
Possible independently fixed	44	44	44	44

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.81	99.94	100.00	100.00	100.00	99.89	100.00	99.93	99.48	99.62	99.62	99.62
Not fixed	0.19	0.06	0.00	0.00	0.00	0.11	0.00	0.07	0.52	0.38	0.38	0.38
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 11:39:26	29/05/2023 11:45:23	00:05:57

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

#### G06

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L5	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

#### G07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:39:27	Used
	<b>29/05/2023 11:39:27</b>	<b>29/05/2023 11:45:23</b>	<b>No Data</b>

#### G09

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:29</b>	<b>No Data</b>
	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:31</b>	<b>No Data</b>
	<b>29/05/2023 11:39:29</b>	<b>29/05/2023 11:39:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:39:32</b>	<b>Rejected</b>
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
L5	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:45:23</b>	<b>No Data</b>
	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:27</b>	<b>No Data</b>
	29/05/2023 11:39:27	29/05/2023 11:39:31	Used
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:45:23</b>	<b>Rejected</b>

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:29</b>	<b>No Data</b>
	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:31</b>	<b>No Data</b>
	<b>29/05/2023 11:39:29</b>	<b>29/05/2023 11:39:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:39:32</b>	<b>Rejected</b>
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:45:23</b>	<b>No Data</b>
L5	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:28</b>	<b>No Data</b>
	29/05/2023 11:39:28	29/05/2023 11:39:31	Used
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:45:23</b>	<b>Rejected</b>

#### G13

Frequency	From Epoch	To Epoch	Status
L1	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:40:51</b>	<b>No Data</b>
	<b>29/05/2023 11:40:51</b>	<b>29/05/2023 11:41:02</b>	<b>Rejected</b>
	29/05/2023 11:41:02	29/05/2023 11:45:23	Used
L2	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:40:57</b>	<b>No Data</b>
	<b>29/05/2023 11:40:57</b>	<b>29/05/2023 11:41:00</b>	<b>Rejected</b>
	<b>29/05/2023 11:41:00</b>	<b>29/05/2023 11:41:01</b>	<b>No Data</b>
	<b>29/05/2023 11:41:01</b>	<b>29/05/2023 11:41:02</b>	<b>Rejected</b>
	29/05/2023 11:41:02	29/05/2023 11:45:23	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:29</b>	<b>No Data</b>
	<b>29/05/2023 11:39:26</b>	<b>29/05/2023 11:39:31</b>	<b>No Data</b>
	<b>29/05/2023 11:39:29</b>	<b>29/05/2023 11:39:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:39:31</b>	<b>29/05/2023 11:39:32</b>	<b>Rejected</b>
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used

	29/05/2023 11:39:31	29/05/2023 11:45:23	No Data
L5	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:31	Used
	29/05/2023 11:39:31	29/05/2023 11:45:23	Rejected

G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:39:31	No Data
	29/05/2023 11:39:31	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data
	29/05/2023 11:39:26	29/05/2023 11:39:31	No Data
	29/05/2023 11:39:29	29/05/2023 11:39:31	Rejected
	29/05/2023 11:39:31	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
L5	29/05/2023 11:39:31	29/05/2023 11:45:23	No Data
	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:31	Used
	29/05/2023 11:39:31	29/05/2023 11:45:23	Rejected

R07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:39:26	29/05/2023 11:42:01	No Data
	29/05/2023 11:42:01	29/05/2023 11:42:02	Rejected
	29/05/2023 11:42:02	29/05/2023 11:45:23	Used
L2	29/05/2023 11:39:26	29/05/2023 11:42:02	No Data
	29/05/2023 11:42:02	29/05/2023 11:42:06	Rejected
	29/05/2023 11:42:06	29/05/2023 11:45:23	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
E5a	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
E5b	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
E5ab	29/05/2023 11:39:26	29/05/2023 11:45:23	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
E5a	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data
	29/05/2023 11:39:29	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
E5b	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data
	29/05/2023 11:39:29	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used
	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data

E5ab	29/05/2023 11:39:29	29/05/2023 11:39:32	Rejected
	29/05/2023 11:39:32	29/05/2023 11:45:23	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:39:36	No Data
	29/05/2023 11:39:36	29/05/2023 11:39:37	Used
	29/05/2023 11:39:37	29/05/2023 11:45:23	Rejected
E5a	29/05/2023 11:39:26	29/05/2023 11:39:37	No Data
	29/05/2023 11:39:37	29/05/2023 11:39:38	Rejected
	29/05/2023 11:39:38	29/05/2023 11:45:23	Used
E5b	29/05/2023 11:39:26	29/05/2023 11:39:37	No Data
	29/05/2023 11:39:37	29/05/2023 11:39:38	Rejected
	29/05/2023 11:39:38	29/05/2023 11:45:23	Used
E5ab	29/05/2023 11:39:26	29/05/2023 11:39:37	No Data
	29/05/2023 11:39:37	29/05/2023 11:39:38	Rejected
	29/05/2023 11:39:38	29/05/2023 11:45:23	Used

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:39:35	No Data
	29/05/2023 11:39:35	29/05/2023 11:39:36	Rejected
	29/05/2023 11:39:36	29/05/2023 11:45:23	Used
E5a	29/05/2023 11:39:26	29/05/2023 11:39:36	No Data
	29/05/2023 11:39:36	29/05/2023 11:45:23	Rejected
E5b	29/05/2023 11:39:26	29/05/2023 11:39:36	No Data
	29/05/2023 11:39:36	29/05/2023 11:45:23	Used
E5ab	29/05/2023 11:39:26	29/05/2023 11:39:37	No Data
	29/05/2023 11:39:37	29/05/2023 11:39:38	Rejected
	29/05/2023 11:39:38	29/05/2023 11:45:23	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:39:27	No Data
	29/05/2023 11:39:27	29/05/2023 11:39:30	Rejected
	29/05/2023 11:39:30	29/05/2023 11:45:23	Used
E5a	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:30	Rejected
	29/05/2023 11:39:30	29/05/2023 11:45:23	Used
E5b	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:30	Rejected
	29/05/2023 11:39:30	29/05/2023 11:45:23	Used
E5ab	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:39:30	Rejected
	29/05/2023 11:39:30	29/05/2023 11:45:23	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data
	29/05/2023 11:39:29	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
E5a	29/05/2023 11:39:26	29/05/2023 11:39:30	No Data
	29/05/2023 11:39:30	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
E5b	29/05/2023 11:39:26	29/05/2023 11:39:30	No Data
	29/05/2023 11:39:30	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
E5ab	29/05/2023 11:39:26	29/05/2023 11:39:30	No Data
	29/05/2023 11:39:30	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
B3	29/05/2023 11:39:26	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
B2a	29/05/2023 11:39:26	29/05/2023 11:39:27	No Data
	29/05/2023 11:39:27	29/05/2023 11:39:33	Used
	29/05/2023 11:39:33	29/05/2023 11:45:23	Rejected

## C25

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
B3	29/05/2023 11:39:26	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
B2a	29/05/2023 11:39:26	29/05/2023 11:39:27	No Data
	29/05/2023 11:39:27	29/05/2023 11:45:23	Used

## C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:39:26	29/05/2023 11:39:28	Rejected
	29/05/2023 11:39:28	29/05/2023 11:45:23	Used
B3	29/05/2023 11:39:26	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used
B2a	29/05/2023 11:39:26	29/05/2023 11:39:27	No Data
	29/05/2023 11:39:27	29/05/2023 11:39:28	Rejected
	29/05/2023 11:39:28	29/05/2023 11:45:23	Used

## C33

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:39:26	29/05/2023 11:45:23	Used
B3	29/05/2023 11:39:26	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used

## C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:39:26	29/05/2023 11:39:28	No Data
	29/05/2023 11:39:28	29/05/2023 11:45:23	Used
B3	29/05/2023 11:39:26	29/05/2023 11:39:29	No Data
	29/05/2023 11:39:29	29/05/2023 11:39:40	Rejected
	29/05/2023 11:39:40	29/05/2023 11:45:23	Used
B2a	29/05/2023 11:39:26	29/05/2023 11:39:33	No Data
	29/05/2023 11:39:33	29/05/2023 11:39:34	Rejected
	29/05/2023 11:39:34	29/05/2023 11:45:23	Used

## Cycle Slips

Slip Count: 15

SV	Frequency	Epoch	Slip Value	Flag
G13	L1	29/05/2023 11:41:02	-	RIA
C32	B1	29/05/2023 11:39:28	-	RIA
	B2a	29/05/2023 11:39:28	-	RIA
E08	E1	29/05/2023 11:39:32	-	RIA
	E5a	29/05/2023 11:39:32	-	RIA
	E5b	29/05/2023 11:39:32	-	RIA
	E5ab	29/05/2023 11:39:32	-	RIA
E27	E1	29/05/2023 11:39:30	-	RIA
	E5a	29/05/2023 11:39:30	-	RIA
	E5b	29/05/2023 11:39:30	-	RIA
	E5ab	29/05/2023 11:39:30	-	RIA
E30	E1	29/05/2023 11:39:34	-	RIA
	E5a	29/05/2023 11:39:34	-	RIA
	E5b	29/05/2023 11:39:34	-	RIA
	E5ab	29/05/2023 11:39:34	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

## Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

Missing orbits for satellite R22.

Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-3E

Processing Parameters (29/05/2023 11:50:26 - 29/05/2023 11:57:25)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

## Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

## General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

## Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-3E

### Acquisition

Start Time - End Time:	29/05/2023 11:50:26 - 29/05/2023 11:57:25
Duration:	00:06:59

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-3E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

Reference - MOQ01058 Rover - PAF-CU2-3E

Reference - MOQ01058 Rover - PAF-CU2-3E

Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 32.68994" S	Easting:	318,107.441 m	319,250.691 m
WGS84 Longitude:	-	70° 41' 53.72449" W	Northing:	8,117,307.121 m	8,114,967.677 m
WGS84 Ellip. Height:	-	3,464.583 m	Ortho. Height:	3,897.429 m	3,423.148 m
WGS84 Cartesian X:	-	2,017,346.594 m			
WGS84 Cartesian Y:	-	-5,760,075.786 m			
WGS84 Cartesian Z:	-	-1,858,337.118 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 16.42093"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 37.96596"	SD ΔLongitude:	0.000 m
ΔHeight:	-474.328 m	SD ΔHeight:	0.000 m
ΔX:	682.962 m	SD ΔX:	0.000 m
ΔY:	1,449.142 m	SD ΔY:	0.000 m
ΔZ:	-2,108.643 m	SD ΔZ:	0.000 m
Slope Dist.:	2,648.174 m	SD Slope Dist.:	0.000 m

M0:	0.429 m	CQ 1D:	0.000 m
Q11:	0.00000009	CQ 2D:	0.000 m
Q12:	-0.00000006	CQ 3D:	0.000 m
Q22:	0.00000037		
Q13:	-0.00000001		
Q23:	0.00000010		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 2.3	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.2 - 1.4	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.1 - 1.2	Galileo SVs:	6/6
				QZSS SVs:	-

#### Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

### Processing Info (29/05/2023 11:50:26 - 29/05/2023 11:57:25)

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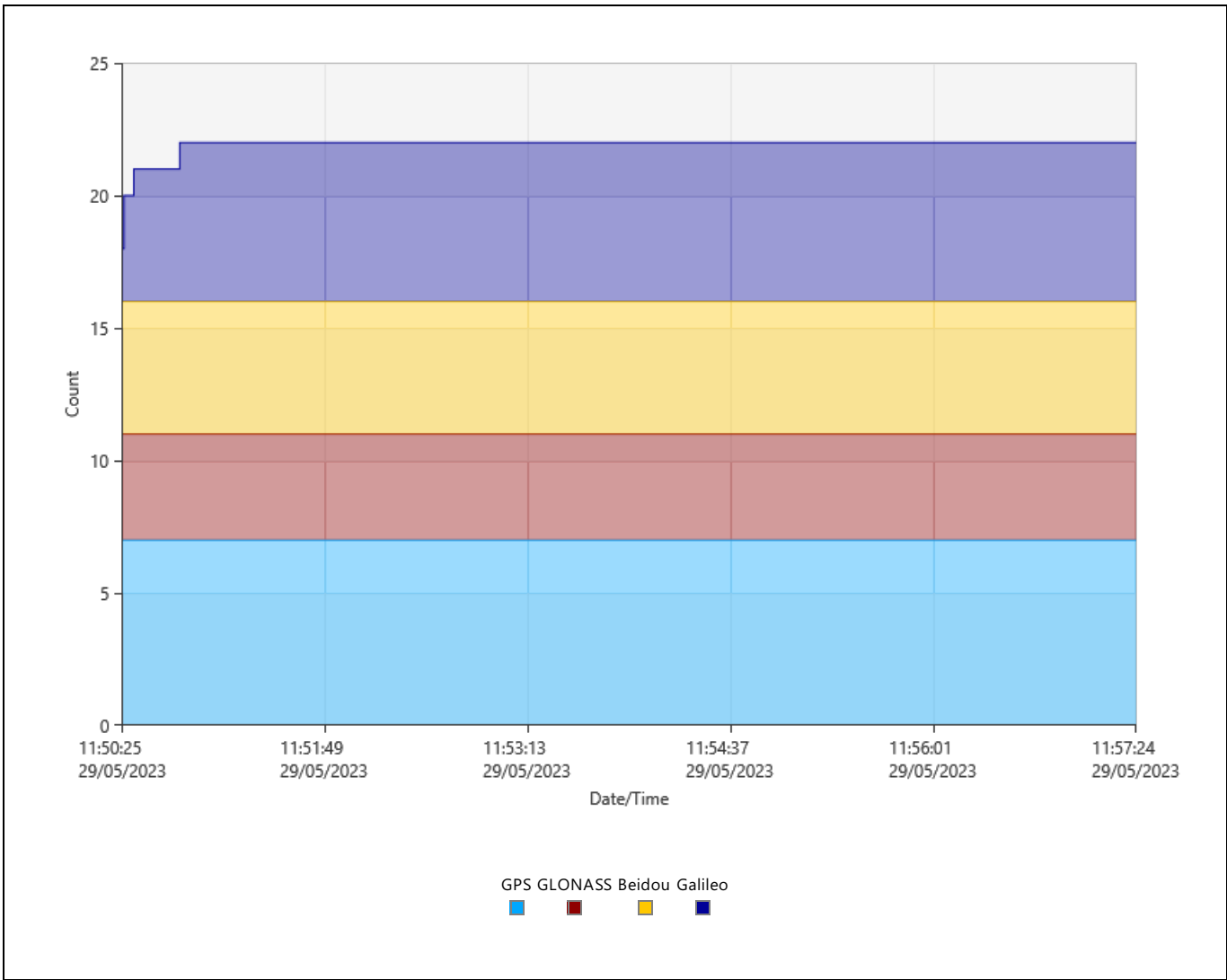
Processed Date/Time: 09/06/2023 17:54:21

### Satellites

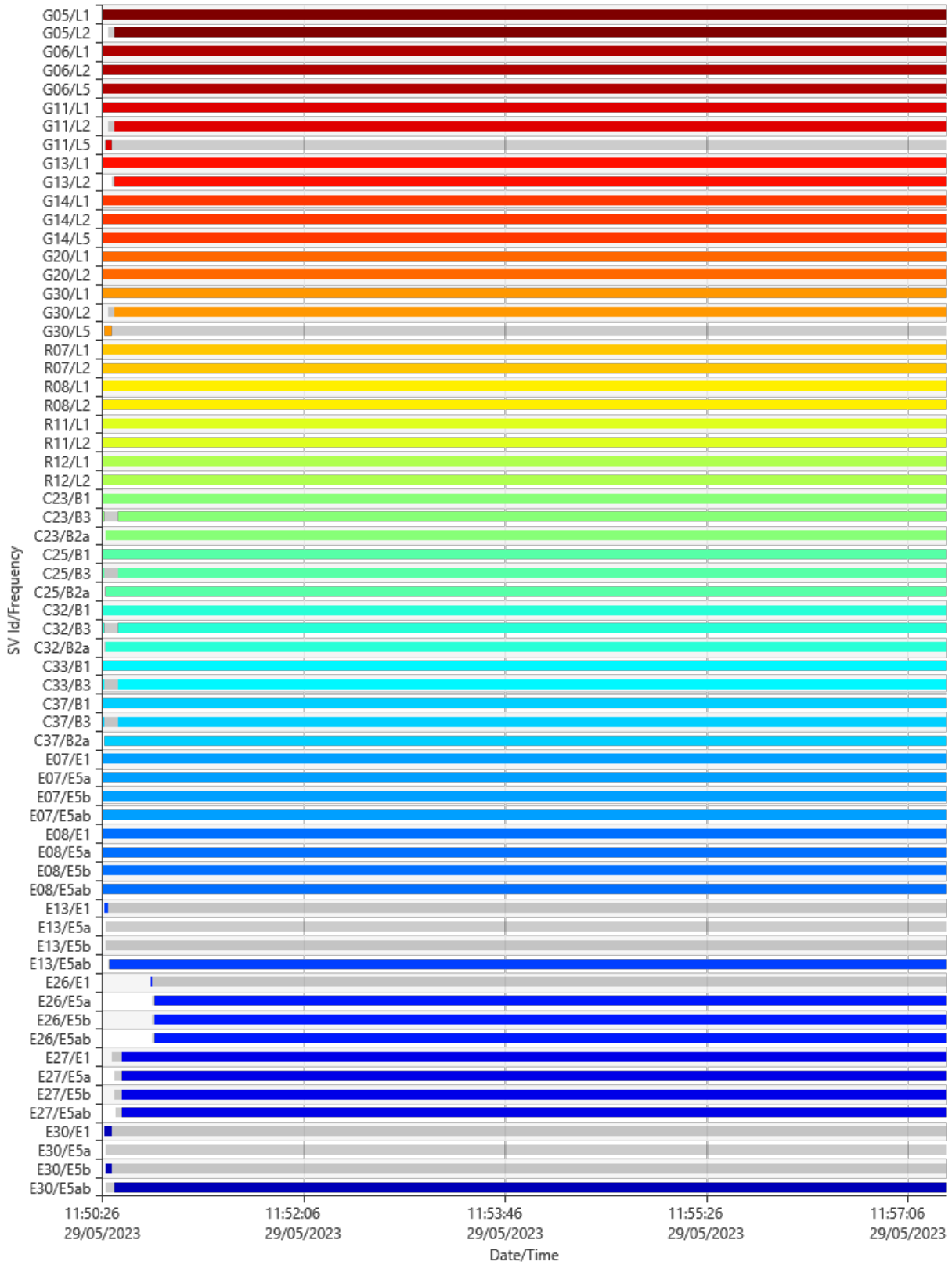
Satellite System	Used	Manually Disabled
GPS	G05 G06 G11 G13 G14 G20 G30	-
GLONASS	R07 R08 R11 R12	-
Beidou	C23 C25 C32 C33 C37	-
Galileo	E07 E08 E13 E26 E27 E30	-

### SVs Tracked

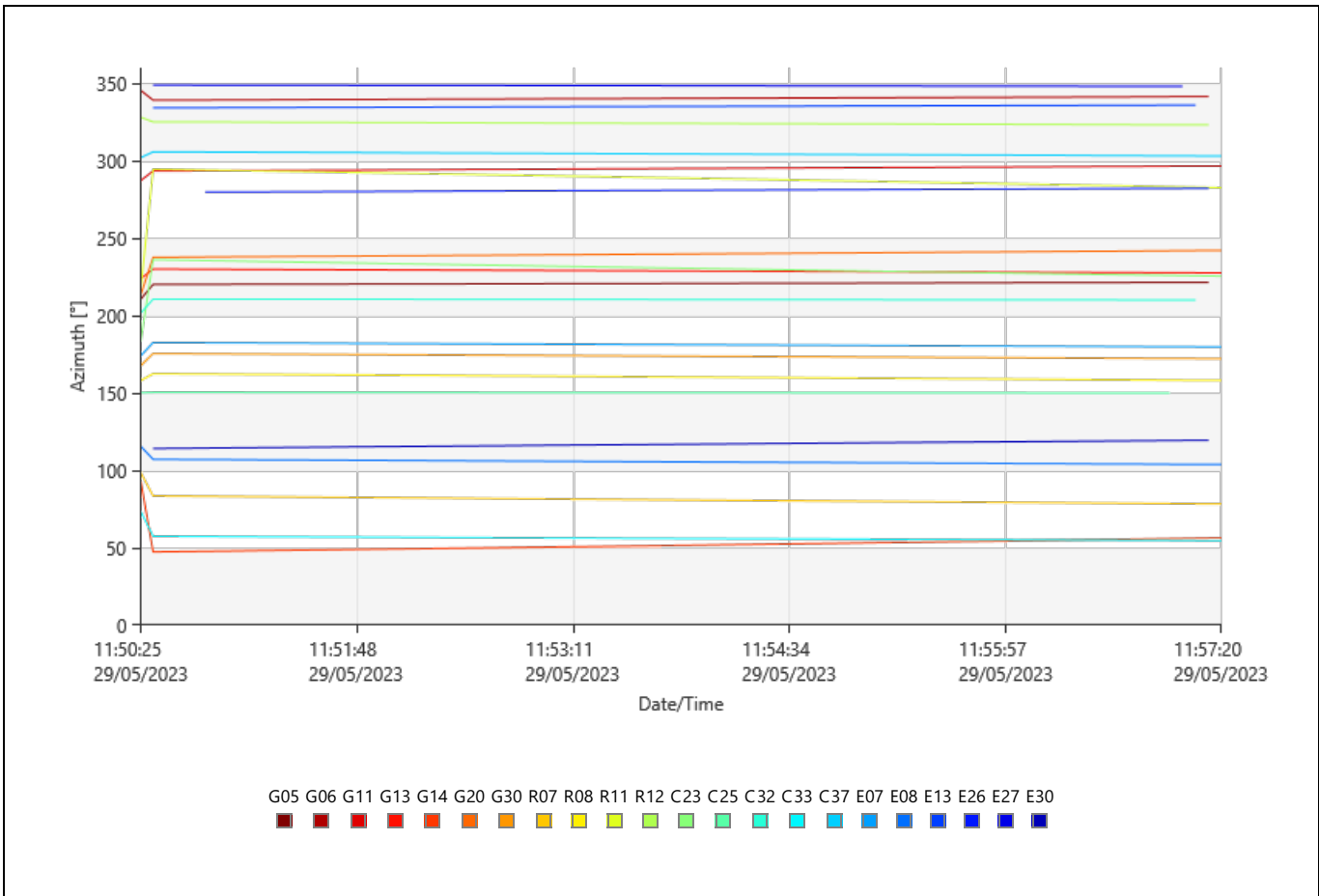




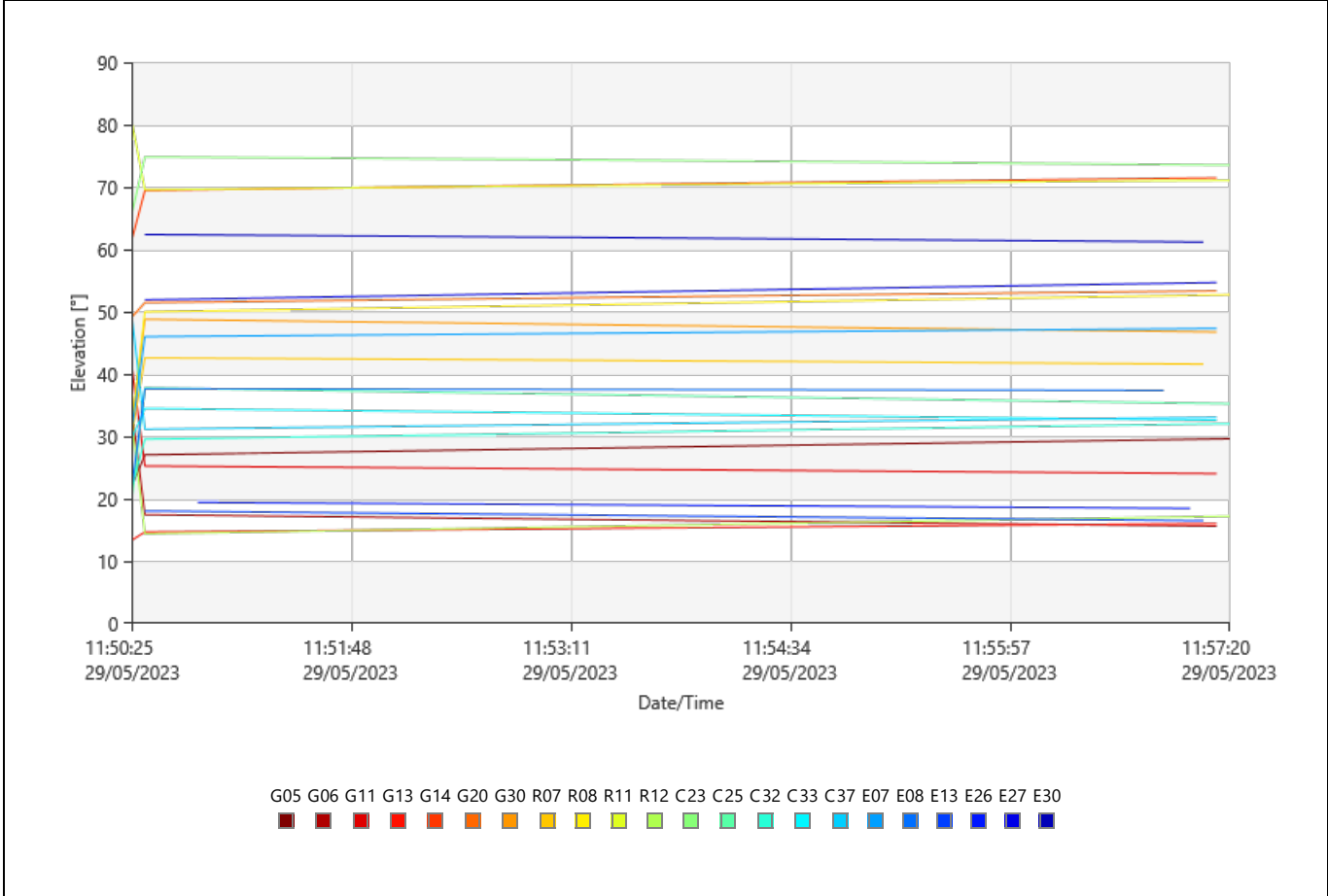
**Signals Tracked**



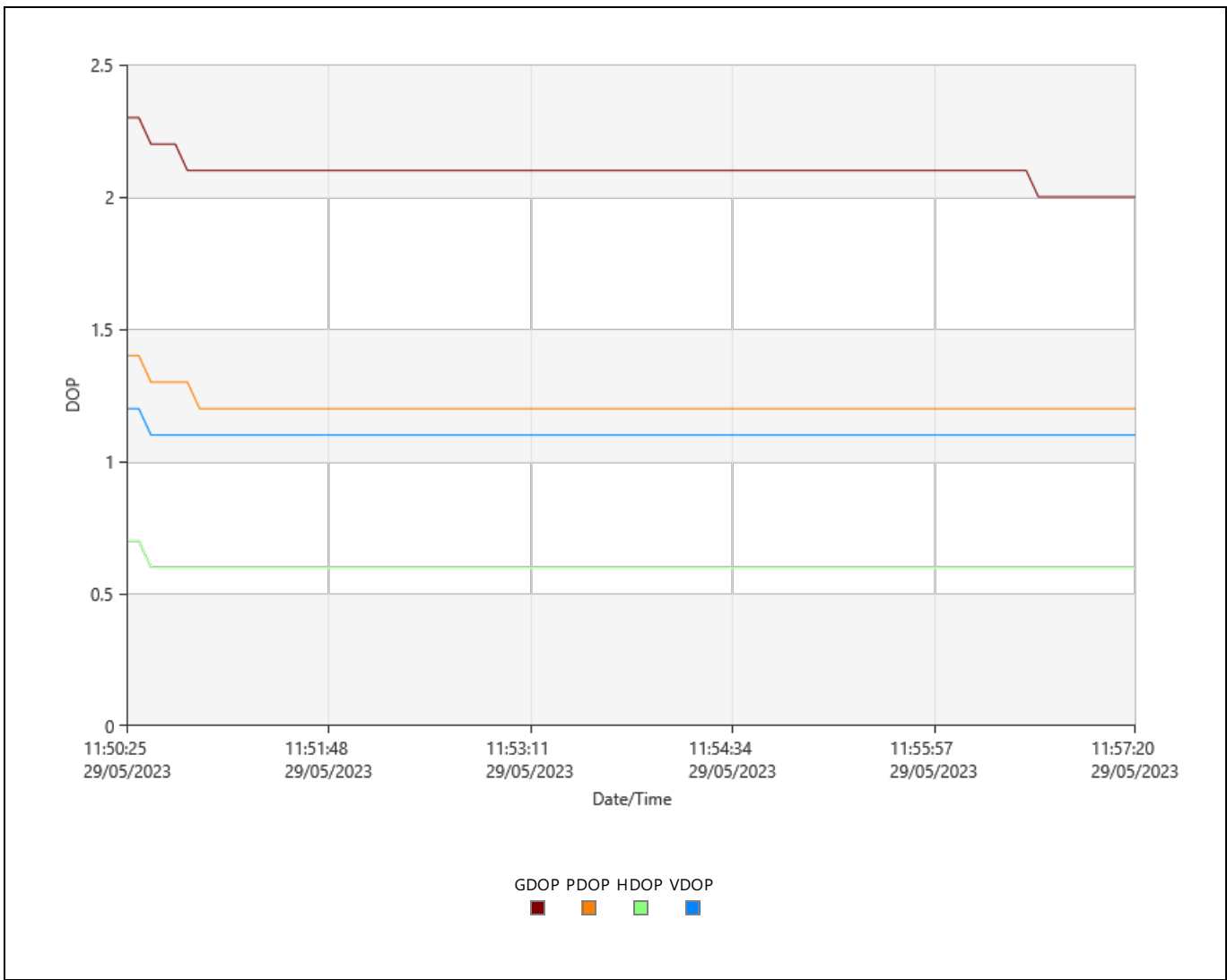
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 420

#### GPS Observations

Frequency	Used	Rejected
L1	2,940	0
L2	2,916	10
L5	847	831

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,680	0
L2	1,680	0

#### Beidou Observations

Frequency	Used	Rejected
B1	2,100	0
B3	2,065	35
B2a	1,673	2

#### Galileo Observations

Frequency	Used	Rejected
E1	1,257	1,232
E5a	1,644	841
E5b	1,647	838
E5ab	2,474	9

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	18	8	14	24
Total	18	8	14	29
Independently fixed	52	52	52	52
Possible independently fixed	52	52	52	52

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.84	99.84	99.84	99.76
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.16	0.16	0.24
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	29/05/2023 11:50:26	29/05/2023 11:50:27	00:00:01
Fixed	29/05/2023 11:50:27	29/05/2023 11:57:25	00:06:58

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:29</b>	<b>No Data</b>
	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:31</b>	<b>No Data</b>
	<b>29/05/2023 11:50:29</b>	<b>29/05/2023 11:50:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:50:32</b>	<b>Rejected</b>
	29/05/2023 11:50:32	29/05/2023 11:57:25	Used
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:57:25</b>	<b>No Data</b>

#### G06

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:27</b>	<b>No Data</b>
	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:57:25	Used
	<b>29/05/2023 11:50:27</b>	<b>29/05/2023 11:57:25</b>	<b>No Data</b>
L5	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:29</b>	<b>No Data</b>
	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:31</b>	<b>No Data</b>
	<b>29/05/2023 11:50:29</b>	<b>29/05/2023 11:50:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:50:32</b>	<b>Rejected</b>
	29/05/2023 11:50:32	29/05/2023 11:57:25	Used
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:57:25</b>	<b>No Data</b>
L5	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:27</b>	<b>No Data</b>
	<b>29/05/2023 11:50:27</b>	<b>29/05/2023 11:50:28</b>	<b>Rejected</b>
	29/05/2023 11:50:28	29/05/2023 11:50:31	Used
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:57:25</b>	<b>Rejected</b>

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:31</b>	<b>No Data</b>
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:50:32</b>	<b>Rejected</b>
	29/05/2023 11:50:32	29/05/2023 11:57:25	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L5	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

#### G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:29</b>	<b>No Data</b>
	<b>29/05/2023 11:50:26</b>	<b>29/05/2023 11:50:31</b>	<b>No Data</b>
	<b>29/05/2023 11:50:29</b>	<b>29/05/2023 11:50:31</b>	<b>Rejected</b>
	<b>29/05/2023 11:50:31</b>	<b>29/05/2023 11:50:32</b>	<b>Rejected</b>
	29/05/2023 11:50:32	29/05/2023 11:57:25	Used

	29/05/2023 11:50:31	29/05/2023 11:57:25	No Data
L5	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:50:31	Used
	29/05/2023 11:50:31	29/05/2023 11:57:25	Rejected

R07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
L2	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5a	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5b	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5ab	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5a	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5b	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
E5ab	29/05/2023 11:50:26	29/05/2023 11:57:25	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:50:29	Used
E5a	29/05/2023 11:50:29	29/05/2023 11:57:25	Rejected
	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
E5b	29/05/2023 11:50:28	29/05/2023 11:57:25	Rejected
	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
E5ab	29/05/2023 11:50:28	29/05/2023 11:57:25	Rejected
	29/05/2023 11:50:26	29/05/2023 11:50:29	No Data
	29/05/2023 11:50:29	29/05/2023 11:50:30	Rejected
	29/05/2023 11:50:30	29/05/2023 11:57:25	Used

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:50:50	No Data
	29/05/2023 11:50:50	29/05/2023 11:50:51	Used
	29/05/2023 11:50:51	29/05/2023 11:57:25	Rejected
E5a	29/05/2023 11:50:26	29/05/2023 11:50:51	No Data
	29/05/2023 11:50:51	29/05/2023 11:50:52	Rejected
	29/05/2023 11:50:52	29/05/2023 11:57:25	Used
E5b	29/05/2023 11:50:26	29/05/2023 11:50:51	No Data
	29/05/2023 11:50:51	29/05/2023 11:50:52	Rejected
	29/05/2023 11:50:52	29/05/2023 11:57:25	Used
E5ab	29/05/2023 11:50:26	29/05/2023 11:50:51	No Data
	29/05/2023 11:50:51	29/05/2023 11:50:52	Rejected
	29/05/2023 11:50:52	29/05/2023 11:57:25	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:50:31	No Data
	29/05/2023 11:50:31	29/05/2023 11:50:36	Rejected
	29/05/2023 11:50:36	29/05/2023 11:57:25	Used
E5a	29/05/2023 11:50:26	29/05/2023 11:50:32	No Data
	29/05/2023 11:50:32	29/05/2023 11:50:36	Rejected
	29/05/2023 11:50:36	29/05/2023 11:57:25	Used
E5b	29/05/2023 11:50:26	29/05/2023 11:50:32	No Data
	29/05/2023 11:50:32	29/05/2023 11:50:36	Rejected
	29/05/2023 11:50:36	29/05/2023 11:57:25	Used
E5ab	29/05/2023 11:50:26	29/05/2023 11:50:33	No Data
	29/05/2023 11:50:33	29/05/2023 11:50:36	Rejected
	29/05/2023 11:50:36	29/05/2023 11:57:25	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:50:31	Used
	29/05/2023 11:50:31	29/05/2023 11:57:25	Rejected
E5a	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
	29/05/2023 11:50:28	29/05/2023 11:57:25	Rejected
	29/05/2023 11:50:28	29/05/2023 11:50:28	No Data
E5b	29/05/2023 11:50:28	29/05/2023 11:50:31	Used
	29/05/2023 11:50:31	29/05/2023 11:57:25	Rejected
	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
E5ab	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
	29/05/2023 11:50:28	29/05/2023 11:50:32	Rejected
	29/05/2023 11:50:32	29/05/2023 11:57:25	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
B3	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:50:34	Rejected
	29/05/2023 11:50:34	29/05/2023 11:57:25	Used
B2a	29/05/2023 11:50:26	29/05/2023 11:50:28	No Data
	29/05/2023 11:50:28	29/05/2023 11:57:25	Used

C25

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
B3	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:50:34	Rejected
	29/05/2023 11:50:34	29/05/2023 11:57:25	Used
B2a	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:50:28	Rejected
	29/05/2023 11:50:28	29/05/2023 11:57:25	Used

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
B3	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:50:34	Rejected
	29/05/2023 11:50:34	29/05/2023 11:57:25	Used
B2a	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:50:28	Rejected
	29/05/2023 11:50:28	29/05/2023 11:57:25	Used

C33

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
B3	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:50:34	Rejected
	29/05/2023 11:50:34	29/05/2023 11:57:25	Used

C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 11:50:26	29/05/2023 11:57:25	Used
B3	29/05/2023 11:50:26	29/05/2023 11:50:27	Used
	29/05/2023 11:50:27	29/05/2023 11:50:34	Rejected

	29/05/2023 11:50:34	29/05/2023 11:57:25	Used
B2a	29/05/2023 11:50:26	29/05/2023 11:50:27	No Data
	29/05/2023 11:50:27	29/05/2023 11:57:25	Used

## Cycle Slips

Slip Count: 6

SV	Frequency	Epoch	Slip Value	Flag
E27	E1	29/05/2023 11:50:36	-	RIA
	E5a	29/05/2023 11:50:34	-	RIA
		29/05/2023 11:50:36	-	RIA
	E5b	29/05/2023 11:50:36	-	RIA
	E5ab	29/05/2023 11:50:36	-	RIA
E30	E5ab	29/05/2023 11:50:32	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R06.

Missing orbits for satellite R10.

Missing orbits for satellite R22.

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-4E

### Processing Parameters (29/05/2023 12:03:03 - 29/05/2023 12:10:03)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-4E

### Acquisition



Start Time - End Time: 29/05/2023 12:03:03 - 29/05/2023 12:10:03  
Duration: 00:07:00

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-4E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-4E	Reference - MOQ01058	Rover - PAF-CU2-4E	
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 59.03384" S	Easting:	318,107.441 m	319,091.492 m
WGS84 Longitude:	-	70° 41' 59.34620" W	Northing:	8,117,307.121 m	8,114,156.405 m
WGS84 Ellip. Height:	-	3,557.157 m	Ortho. Height:	3,897.429 m	3,515.793 m
WGS84 Cartesian X:	-	2,017,140.348 m			
WGS84 Cartesian Y:	-	-5,759,990.116 m			
WGS84 Cartesian Z:	-	-1,859,138.960 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 42.76483"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 32.34424"	SD ΔLongitude:	0.000 m
ΔHeight:	-381.754 m	SD ΔHeight:	0.000 m
ΔX:	476.716 m	SD ΔX:	0.000 m
ΔY:	1,534.812 m	SD ΔY:	0.000 m
ΔZ:	-2,910.485 m	SD ΔZ:	0.000 m
Slope Dist.:	3,324.730 m	SD Slope Dist.:	0.000 m

M0:	0.553 m	CQ 1D:	0.000 m
Q11:	0.00000008	CQ 2D:	0.000 m
Q12:	-0.00000003	CQ 3D:	0.000 m
Q22:	0.00000037		
Q13:	0.00000000		
Q23:	0.00000008		
Q33:	0.00000008		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.3 - 2.9	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.3 - 1.5	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.8	Beidou SVs:	4/4
		VDOP:	1.1 - 1.3	Galileo SVs:	5/5
				QZSS SVs:	-

## Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

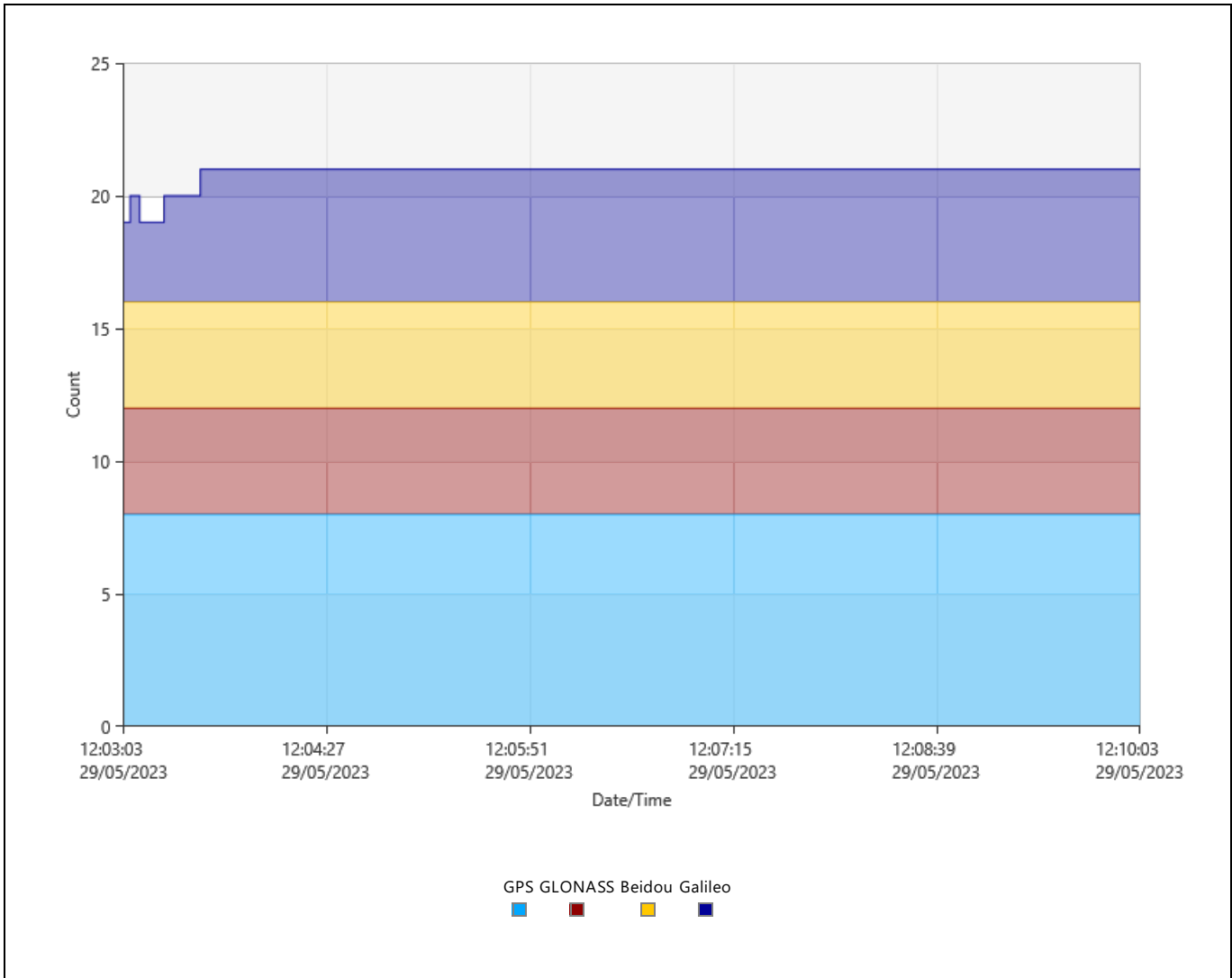
## Processing Info (29/05/2023 12:03:03 - 29/05/2023 12:10:03)

Processed Date/Time: 09/06/2023 17:54:21

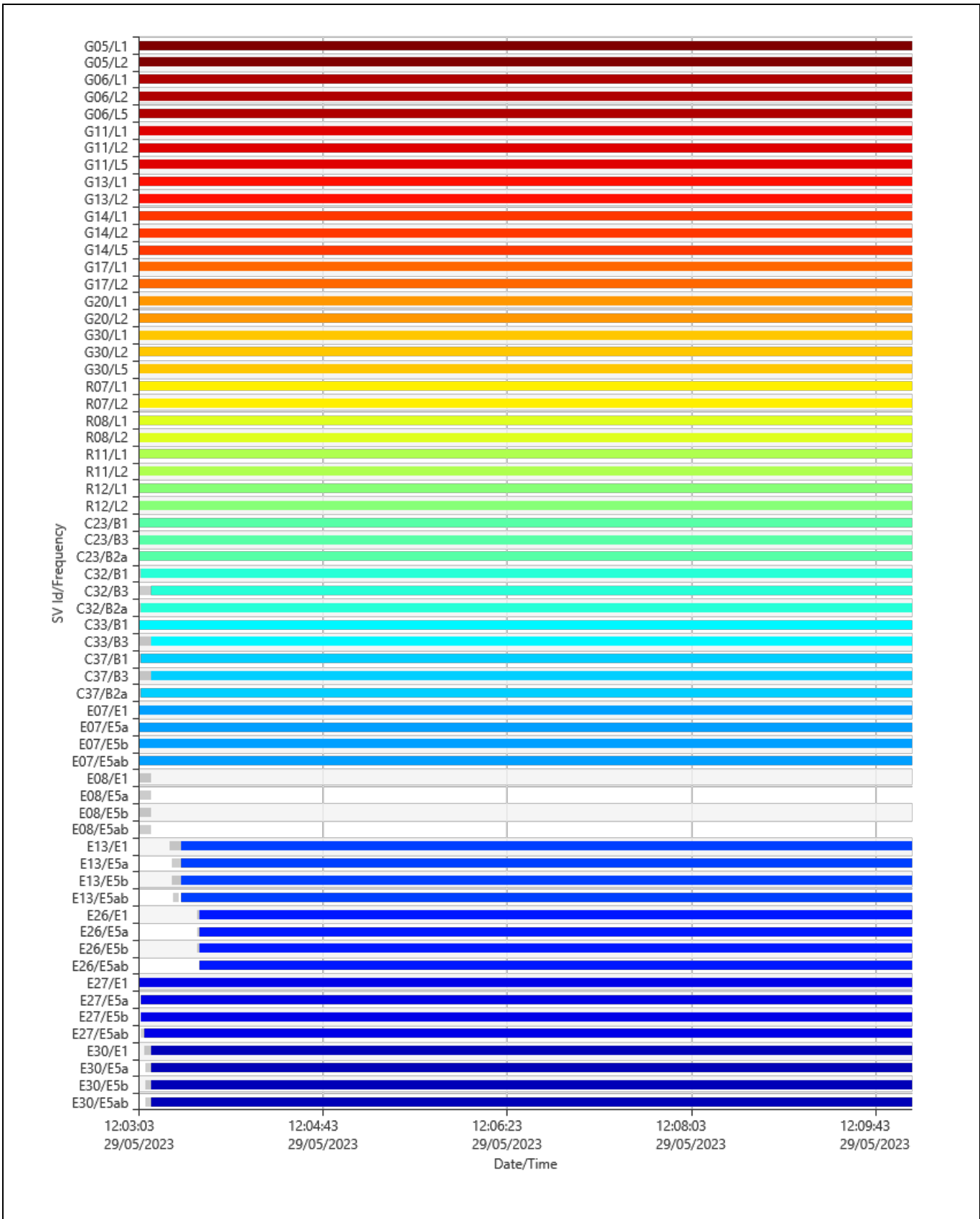
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G06 G11 G13 G14 G17 G20 G30	-
GLONASS	R07 R08 R11 R12	-
Beidou	C23 C32 C33 C37	-
Galileo	E07 E13 E26 E27 E30	-

## SVs Tracked

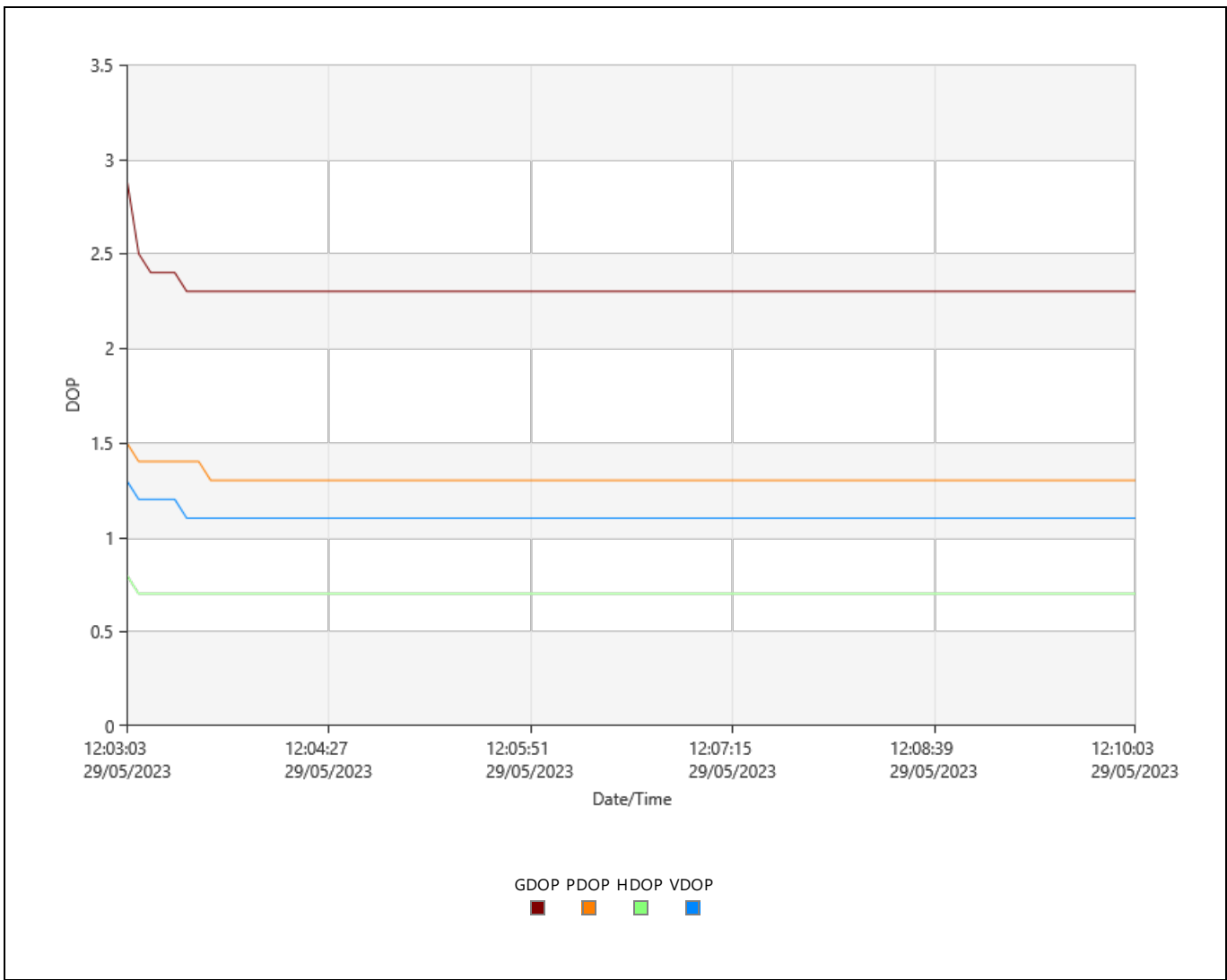


## Signals Tracked



Azimuth





### Observation Statistics

Common Epochs: 421

#### GPS Observations

Frequency	Used	Rejected
L1	3,368	0
L2	3,368	0
L5	1,684	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,684	0
L2	1,684	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,682	2
B3	1,663	21
B2a	1,261	2

#### Galileo Observations

Frequency	Used	Rejected
E1	2,042	18
E5a	2,041	16
E5b	2,041	16
E5ab	2,039	15

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	8	11	20
Total	20	8	15	33
Independently fixed	52	52	52	52
Possible independently fixed	52	52	52	52

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	99.88	100.00	99.84	99.17	99.37	99.37	99.27
Not fixed	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.16	0.83	0.63	0.63	0.73
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 12:03:03	29/05/2023 12:10:03	00:07:00

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G06

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L5	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L5	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L5	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L5	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### R07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

#### R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
L2	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
E5a	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
E5b	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
E5ab	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	No Data
E5a	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	No Data
E5b	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	No Data
E5ab	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	No Data

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:03:20	No Data
	29/05/2023 12:03:20	29/05/2023 12:03:26	Rejected
	29/05/2023 12:03:26	29/05/2023 12:10:03	Used
E5a	29/05/2023 12:03:03	29/05/2023 12:03:21	No Data
	29/05/2023 12:03:21	29/05/2023 12:03:26	Rejected
	29/05/2023 12:03:26	29/05/2023 12:10:03	Used
E5b	29/05/2023 12:03:03	29/05/2023 12:03:21	No Data
	29/05/2023 12:03:21	29/05/2023 12:03:26	Rejected
	29/05/2023 12:03:26	29/05/2023 12:10:03	Used
E5ab	29/05/2023 12:03:03	29/05/2023 12:03:22	No Data
	29/05/2023 12:03:22	29/05/2023 12:03:25	Rejected
	29/05/2023 12:03:25	29/05/2023 12:03:26	No Data
	29/05/2023 12:03:26	29/05/2023 12:10:03	Used

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:03:35	No Data
	29/05/2023 12:03:35	29/05/2023 12:03:36	Rejected
	29/05/2023 12:03:36	29/05/2023 12:10:03	Used
E5a	29/05/2023 12:03:03	29/05/2023 12:03:35	No Data
	29/05/2023 12:03:35	29/05/2023 12:03:36	Rejected
	29/05/2023 12:03:36	29/05/2023 12:10:03	Used
E5b	29/05/2023 12:03:03	29/05/2023 12:03:35	No Data
	29/05/2023 12:03:35	29/05/2023 12:03:36	Rejected
	29/05/2023 12:03:36	29/05/2023 12:10:03	Used
E5ab	29/05/2023 12:03:03	29/05/2023 12:03:36	No Data
	29/05/2023 12:03:36	29/05/2023 12:10:03	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
E5a	29/05/2023 12:03:03	29/05/2023 12:03:04	No Data
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used
E5b	29/05/2023 12:03:03	29/05/2023 12:03:04	No Data
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used
E5ab	29/05/2023 12:03:03	29/05/2023 12:03:04	No Data
	29/05/2023 12:03:04	29/05/2023 12:03:06	Rejected
	29/05/2023 12:03:06	29/05/2023 12:10:03	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:03:03	29/05/2023 12:03:06	No Data
	29/05/2023 12:03:06	29/05/2023 12:03:10	Rejected

	29/05/2023 12:03:10	29/05/2023 12:10:03	Used
E5a	29/05/2023 12:03:03	29/05/2023 12:03:07	No Data
	29/05/2023 12:03:07	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used
E5b	29/05/2023 12:03:03	29/05/2023 12:03:07	No Data
	29/05/2023 12:03:07	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used
E5ab	29/05/2023 12:03:03	29/05/2023 12:03:07	No Data
	29/05/2023 12:03:07	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used

### C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
B3	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
B2a	29/05/2023 12:03:03	29/05/2023 12:10:03	Used

### C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:03:03	29/05/2023 12:03:04	Rejected
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used
B3	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used
B2a	29/05/2023 12:03:03	29/05/2023 12:03:04	Rejected
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used

### C33

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:03:03	29/05/2023 12:10:03	Used
B3	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used

### C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:03:03	29/05/2023 12:03:04	Rejected
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used
B3	29/05/2023 12:03:03	29/05/2023 12:03:10	Rejected
	29/05/2023 12:03:10	29/05/2023 12:10:03	Used
B2a	29/05/2023 12:03:03	29/05/2023 12:03:04	Rejected
	29/05/2023 12:03:04	29/05/2023 12:10:03	Used

## Cycle Slips

Slip Count: 13

SV	Frequency	Epoch	Slip Value	Flag
C32	B1	29/05/2023 12:03:04	-	RIA
	B2a	29/05/2023 12:03:04	-	RIA
C37	B1	29/05/2023 12:03:04	-	RIA
	B2a	29/05/2023 12:03:04	-	RIA
E13	E1	29/05/2023 12:03:26	-	RIA
	E5a	29/05/2023 12:03:26	-	RIA
	E5b	29/05/2023 12:03:26	-	RIA
E30	E1	29/05/2023 12:03:10	-	RIA
	E5a	29/05/2023 12:03:10	-	RIA
	E5b	29/05/2023 12:03:10	-	RIA
	E5ab	29/05/2023 12:03:10	-	RIA
E27	E5ab	29/05/2023 12:03:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R10.  
Missing orbits for satellite R06.



Missing orbits for satellite R22.  
Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-5E

Processing Parameters (29/05/2023 12:24:59 - 29/05/2023 12:32:18)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Wideline Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-5E

### Acquisition

Start Time - End Time:	29/05/2023 12:24:59 - 29/05/2023 12:32:18
Duration:	00:07:19

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-5E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-5E		Reference - MOQ01058	Rover - PAF-CU2-5E
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 03' 03.98488" S	Easting:	318,107.441 m	318,553.250 m
WGS84 Longitude:	-	70° 42' 17.59303" W	Northing:	8,117,307.121 m	8,113,999.505 m
WGS84 Ellip. Height:	-	3,474.871 m	Ortho. Height:	3,897.429 m	3,433.568 m
WGS84 Cartesian X:	-	2,016,590.044 m			
WGS84 Cartesian Y:	-	-5,760,052.142 m			
WGS84 Cartesian Z:	-	-1,859,260.426 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 47.71587"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 14.09742"	SD ΔLongitude:	0.000 m
ΔHeight:	-464.040 m	SD ΔHeight:	0.000 m
ΔX:	-73.588 m	SD ΔX:	0.000 m
ΔY:	1,472.786 m	SD ΔY:	0.000 m
ΔZ:	-3,031.952 m	SD ΔZ:	0.000 m
Slope Dist.:	3,371.535 m	SD Slope Dist.:	0.000 m

M0:	0.457 m	CQ 1D:	0.000 m
Q11:	0.00000010	CQ 2D:	0.000 m
Q12:	-0.00000010	CQ 3D:	0.000 m
Q22:	0.00000031		
Q13:	-0.00000001		
Q23:	0.00000004		
Q33:	0.00000007		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.0 - 3.0	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.2 - 1.7	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.8	Beidou SVs:	4/4
		VDOP:	1.0 - 1.5	Galileo SVs:	7/7
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

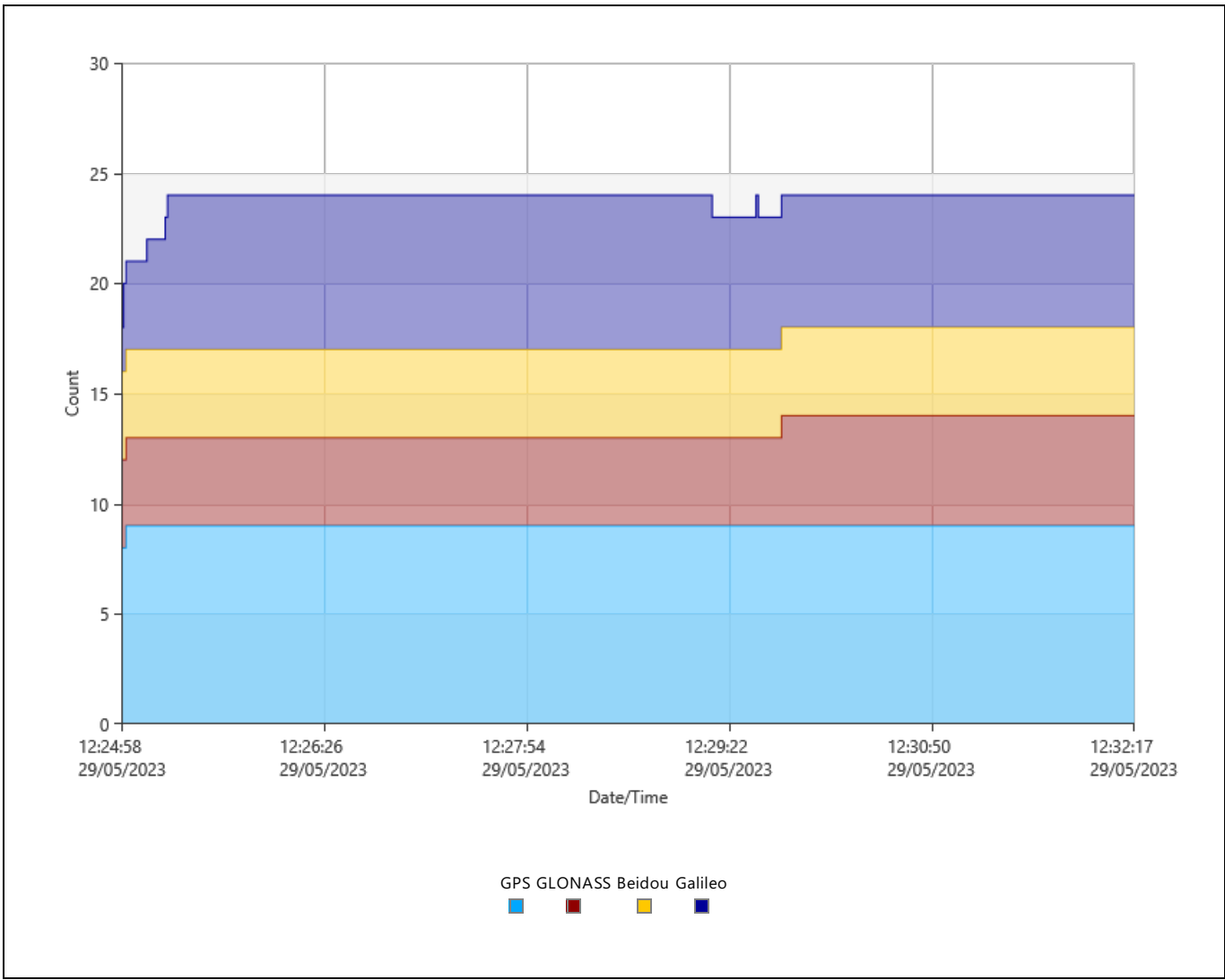
### Processing Info (29/05/2023 12:24:59 - 29/05/2023 12:32:18)

Processed Date/Time: 09/06/2023 17:54:21

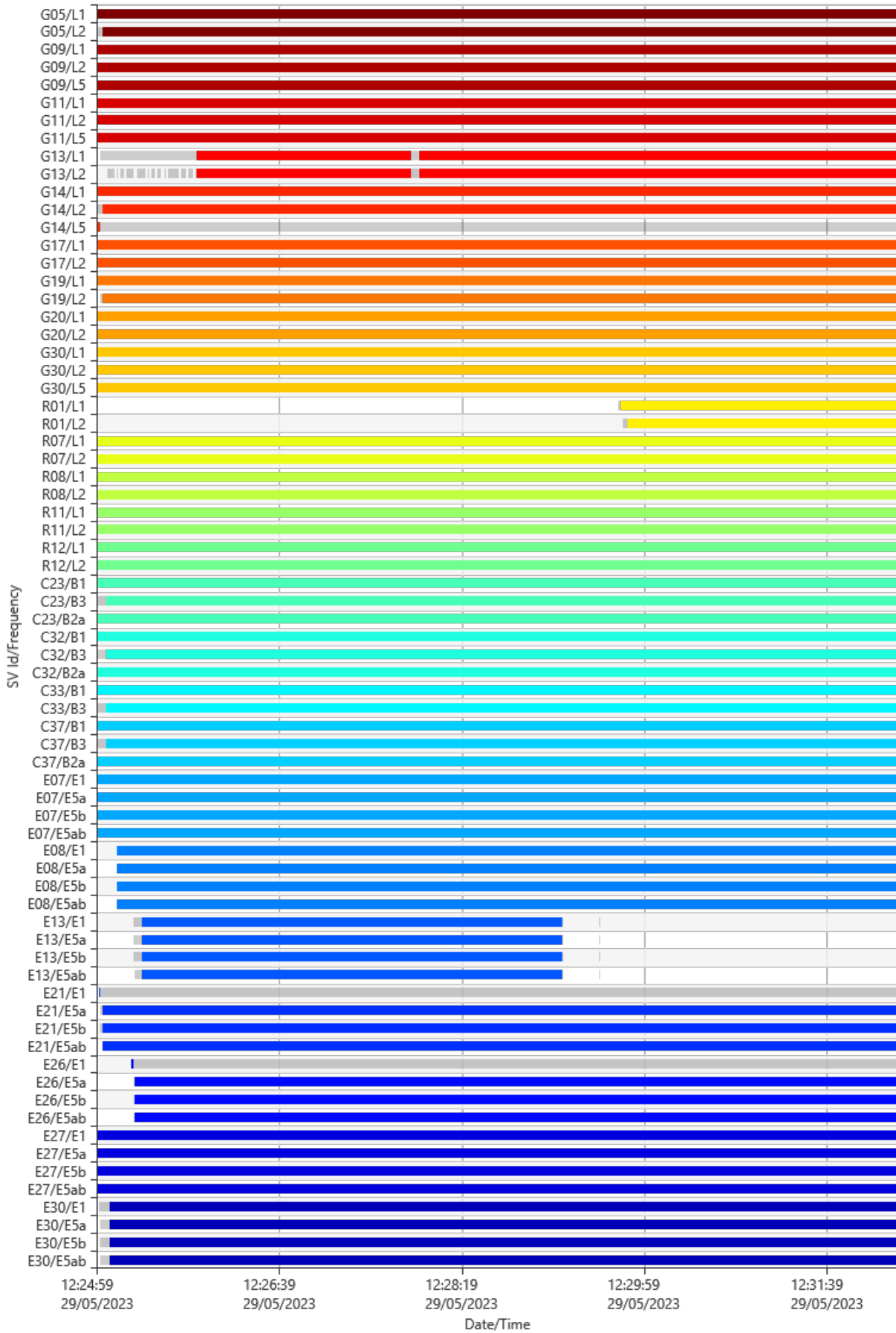
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G09 G11 G13 G14 G17 G19 G20 G30	-
GLONASS	R01 R07 R08 R11 R12	-
Beidou	C23 C32 C33 C37	-
Galileo	E07 E08 E13 E21 E26 E27 E30	-

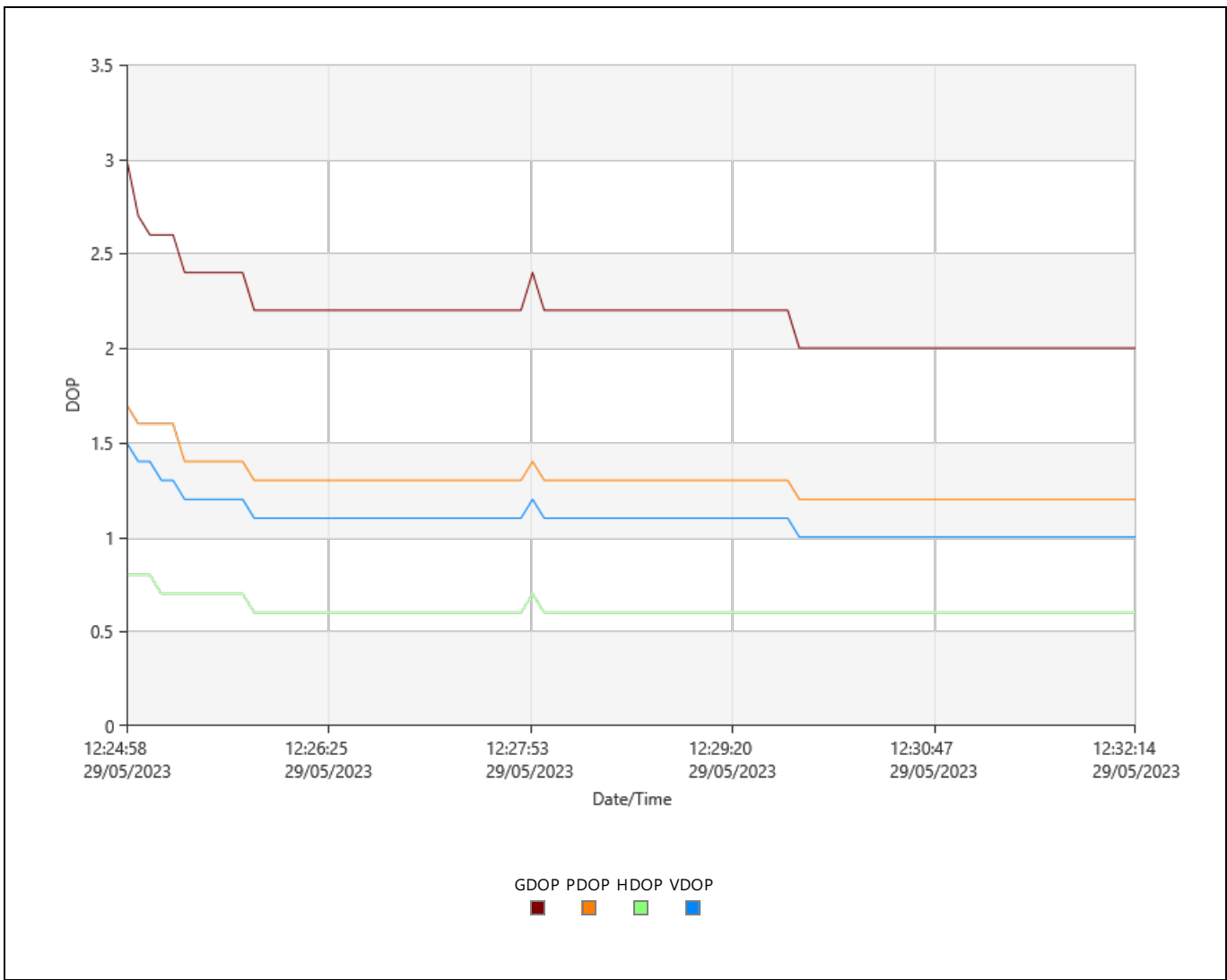
### SVs Tracked



**Signals Tracked**







### Observation Statistics

Common Epochs: 440

#### GPS Observations

Frequency	Used	Rejected
L1	3,900	58
L2	3,891	47
L5	1,322	438

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,913	1
L2	1,909	3

#### Beidou Observations

Frequency	Used	Rejected
B1	1,760	0
B3	1,740	20
B2a	1,320	0

#### Galileo Observations

Frequency	Used	Rejected
E1	1,974	871
E5a	2,828	14
E5b	2,828	14
E5ab	2,828	12

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	24	10	11	28
Total	32	10	11	40
Independently fixed	55	55	55	54
Possible independently fixed	55	55	55	55

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	98.68	99.18	100.00	100.00	100.00	100.00	100.00	100.00	99.58	99.65	99.65	99.65
Not fixed	1.32	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.35	0.35	0.35
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 12:24:59	29/05/2023 12:32:18	00:07:19

## Residuals

### Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:24:59	29/05/2023 12:25:01	Rejected
	29/05/2023 12:25:01	29/05/2023 12:25:02	Rejected
	29/05/2023 12:25:02	29/05/2023 12:32:18	Used
	29/05/2023 12:25:01	29/05/2023 12:32:18	No Data

G09

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L5	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L5	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:54	Rejected
	29/05/2023 12:25:54	29/05/2023 12:27:51	Used
	29/05/2023 12:27:51	29/05/2023 12:27:56	Rejected
	29/05/2023 12:27:56	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:25:05	No Data
	29/05/2023 12:25:05	29/05/2023 12:25:09	Rejected
	29/05/2023 12:25:09	29/05/2023 12:25:10	No Data
	29/05/2023 12:25:10	29/05/2023 12:25:11	Rejected
	29/05/2023 12:25:11	29/05/2023 12:25:12	No Data
	29/05/2023 12:25:12	29/05/2023 12:25:14	Rejected
	29/05/2023 12:25:14	29/05/2023 12:25:15	No Data
	29/05/2023 12:25:15	29/05/2023 12:25:19	Rejected
	29/05/2023 12:25:19	29/05/2023 12:25:21	No Data
	29/05/2023 12:25:21	29/05/2023 12:25:26	Rejected
	29/05/2023 12:25:26	29/05/2023 12:25:27	No Data
	29/05/2023 12:25:27	29/05/2023 12:25:28	Rejected
	29/05/2023 12:25:28	29/05/2023 12:25:29	No Data
	29/05/2023 12:25:29	29/05/2023 12:25:31	Rejected
	29/05/2023 12:25:31	29/05/2023 12:25:32	No Data
	29/05/2023 12:25:32	29/05/2023 12:25:34	Rejected
	29/05/2023 12:25:34	29/05/2023 12:25:36	No Data
	29/05/2023 12:25:36	29/05/2023 12:25:37	Rejected
	29/05/2023 12:25:37	29/05/2023 12:25:38	No Data
	29/05/2023 12:25:38	29/05/2023 12:25:44	Rejected
	29/05/2023 12:25:44	29/05/2023 12:25:45	No Data
	29/05/2023 12:25:45	29/05/2023 12:25:48	Rejected
	29/05/2023 12:25:48	29/05/2023 12:25:49	No Data
	29/05/2023 12:25:49	29/05/2023 12:25:52	Rejected
	29/05/2023 12:25:52	29/05/2023 12:25:53	No Data
	29/05/2023 12:25:53	29/05/2023 12:25:54	Rejected
	29/05/2023 12:25:54	29/05/2023 12:27:51	Used
	29/05/2023 12:27:51	29/05/2023 12:27:56	Rejected
	29/05/2023 12:27:56	29/05/2023 12:32:18	Used

G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:24:59	29/05/2023 12:25:01	Rejected

L2	29/05/2023 12:25:01	29/05/2023 12:25:02	Rejected
	29/05/2023 12:25:02	29/05/2023 12:32:18	Used
	29/05/2023 12:25:01	29/05/2023 12:32:18	No Data
L5	29/05/2023 12:24:59	29/05/2023 12:25:01	Used
	29/05/2023 12:25:01	29/05/2023 12:32:18	Rejected

G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:02	Rejected
	29/05/2023 12:25:02	29/05/2023 12:32:18	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L5	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:29:45	No Data
	29/05/2023 12:29:45	29/05/2023 12:29:46	Rejected
	29/05/2023 12:29:46	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:29:47	No Data
	29/05/2023 12:29:47	29/05/2023 12:29:50	Rejected
	29/05/2023 12:29:50	29/05/2023 12:32:18	Used

R07

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
L2	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5a	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5b	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5ab	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

E08

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Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:25:10	No Data
	29/05/2023 12:25:10	29/05/2023 12:32:18	Used
E5a	29/05/2023 12:24:59	29/05/2023 12:25:10	No Data
	29/05/2023 12:25:10	29/05/2023 12:32:18	Used
E5b	29/05/2023 12:24:59	29/05/2023 12:25:10	No Data
	29/05/2023 12:25:10	29/05/2023 12:32:18	Used
E5ab	29/05/2023 12:24:59	29/05/2023 12:25:10	No Data
	29/05/2023 12:25:10	29/05/2023 12:32:18	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:24	Rejected
	29/05/2023 12:25:24	29/05/2023 12:29:14	Used
	29/05/2023 12:29:14	29/05/2023 12:29:15	Rejected
	29/05/2023 12:29:15	29/05/2023 12:29:34	No Data
	29/05/2023 12:29:34	29/05/2023 12:29:35	Rejected
	29/05/2023 12:29:35	29/05/2023 12:32:18	No Data
E5a	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:24	Rejected
	29/05/2023 12:25:24	29/05/2023 12:29:14	Used
	29/05/2023 12:29:14	29/05/2023 12:29:15	Rejected
	29/05/2023 12:29:15	29/05/2023 12:29:34	No Data
	29/05/2023 12:29:34	29/05/2023 12:29:35	Rejected
E5b	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:24	Rejected
	29/05/2023 12:25:24	29/05/2023 12:29:14	Used
	29/05/2023 12:29:14	29/05/2023 12:29:15	Rejected
	29/05/2023 12:29:15	29/05/2023 12:29:34	No Data
	29/05/2023 12:29:34	29/05/2023 12:29:35	Rejected
E5ab	29/05/2023 12:24:59	29/05/2023 12:25:20	No Data
	29/05/2023 12:25:20	29/05/2023 12:25:24	Rejected
	29/05/2023 12:25:24	29/05/2023 12:29:14	Used
	29/05/2023 12:29:14	29/05/2023 12:29:15	Rejected
	29/05/2023 12:29:15	29/05/2023 12:29:34	No Data
	29/05/2023 12:29:34	29/05/2023 12:29:35	Rejected
	29/05/2023 12:29:35	29/05/2023 12:32:18	No Data

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:25:00	No Data
	29/05/2023 12:25:00	29/05/2023 12:25:01	Used
	29/05/2023 12:25:01	29/05/2023 12:32:18	Rejected
E5a	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:02	Rejected
E5b	29/05/2023 12:25:02	29/05/2023 12:32:18	Used
	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:02	Rejected
E5ab	29/05/2023 12:25:02	29/05/2023 12:32:18	Used
	29/05/2023 12:24:59	29/05/2023 12:25:02	No Data

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:25:18	No Data
	29/05/2023 12:25:18	29/05/2023 12:25:19	Used
	29/05/2023 12:25:19	29/05/2023 12:32:18	Rejected
E5a	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:20	Rejected
E5b	29/05/2023 12:25:20	29/05/2023 12:32:18	Used
	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:20	Rejected
E5ab	29/05/2023 12:25:20	29/05/2023 12:32:18	Used
	29/05/2023 12:24:59	29/05/2023 12:25:19	No Data
	29/05/2023 12:25:19	29/05/2023 12:25:20	Rejected

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5a	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5b	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
E5ab	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

E30

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 12:24:59	29/05/2023 12:25:00	No Data
	29/05/2023 12:25:00	29/05/2023 12:25:06	Rejected
	29/05/2023 12:25:06	29/05/2023 12:32:18	Used
E5a	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:06	Rejected
	29/05/2023 12:25:06	29/05/2023 12:32:18	Used
E5b	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:06	Rejected
	29/05/2023 12:25:06	29/05/2023 12:32:18	Used
E5ab	29/05/2023 12:24:59	29/05/2023 12:25:01	No Data
	29/05/2023 12:25:01	29/05/2023 12:25:06	Rejected
	29/05/2023 12:25:06	29/05/2023 12:32:18	Used

C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
B3	29/05/2023 12:24:59	29/05/2023 12:25:04	Rejected
	29/05/2023 12:25:04	29/05/2023 12:32:18	Used
B2a	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
B3	29/05/2023 12:24:59	29/05/2023 12:25:04	Rejected
	29/05/2023 12:25:04	29/05/2023 12:32:18	Used
B2a	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

C33

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
B3	29/05/2023 12:24:59	29/05/2023 12:25:04	Rejected
	29/05/2023 12:25:04	29/05/2023 12:32:18	Used

C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 12:24:59	29/05/2023 12:32:18	Used
B3	29/05/2023 12:24:59	29/05/2023 12:25:04	Rejected
	29/05/2023 12:25:04	29/05/2023 12:32:18	Used
B2a	29/05/2023 12:24:59	29/05/2023 12:32:18	Used

Cycle Slips

Slip Count: 22

SV	Frequency	Epoch	Slip Value	Flag
G13	L1	29/05/2023 12:25:08	-	RIA
		29/05/2023 12:25:16	-	RIA
		29/05/2023 12:25:22	-	RIA
		29/05/2023 12:25:24	-	RIA
		29/05/2023 12:25:32	-	RIA
		29/05/2023 12:25:38	-	RIA
		29/05/2023 12:25:40	-	RIA
		29/05/2023 12:25:46	-	RIA
		29/05/2023 12:25:54	-	RIA
	L2	29/05/2023 12:25:08	-	RIA
		29/05/2023 12:25:24	-	RIA
		29/05/2023 12:25:32	-	RIA
		29/05/2023 12:25:38	-	RIA
		29/05/2023 12:25:40	-	RIA
		29/05/2023 12:25:24	-	RIA
E1		29/05/2023 12:25:24	-	RIA

E13	E5a	29/05/2023 12:25:24	-	RIA
	E5b	29/05/2023 12:25:24	-	RIA
	E5ab	29/05/2023 12:25:24	-	RIA
E30	E1	29/05/2023 12:25:06	-	RIA
	E5a	29/05/2023 12:25:06	-	RIA
	E5b	29/05/2023 12:25:06	-	RIA
	E5ab	29/05/2023 12:25:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R10.

Missing orbits for satellite R06.

Missing orbits for satellite R22.

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-8E

### Processing Parameters (29/05/2023 14:32:31 - 29/05/2023 14:40:15)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-8E

### Acquisition

Start Time - End Time:	29/05/2023 14:32:31 - 29/05/2023 14:40:15
Duration:	00:07:44

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-8E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m

Height Reading: 1.454 m 2.000 m  
 Antenna Height: 1.454 m 2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1		L2	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-8E	Reference - MOQ01058	Rover - PAF-CU2-8E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 46.85870" S	Easting: 318,107.441 m	317,208.327 m
WGS84 Longitude:	-	70° 43' 02.91837" W	Northing: 8,117,307.121 m	8,114,514.237 m
WGS84 Ellip. Height:	-	3,475.138 m	Ortho. Height: 3,897.429 m	3,433.923 m
WGS84 Cartesian X:	-	2,015,375.347 m		
WGS84 Cartesian Y:	-	-5,760,641.154 m		
WGS84 Cartesian Z:	-	-1,858,756.878 m		

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 01' 30.58968"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 31.22792"	SD ΔLongitude:	0.000 m
ΔHeight:	-463.773 m	SD ΔHeight:	0.001 m
ΔX:	-1,288.286 m	SD ΔX:	0.000 m
ΔY:	883.774 m	SD ΔY:	0.001 m
ΔZ:	-2,528.404 m	SD ΔZ:	0.000 m
Slope Dist.:	2,972.131 m	SD Slope Dist.:	0.000 m
M0:	0.505 m	CQ 1D:	0.001 m
Q11:	0.00000021	CQ 2D:	0.000 m
Q12:	-0.00000041	CQ 3D:	0.001 m
Q22:	0.00000139		
Q13:	-0.00000001		
Q23:	0.00000009		
Q33:	0.00000009		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.5 - 4.6	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	2.0 - 2.7	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.9 - 1.1	Beidou SVs:	3/3
		VDOP:	1.8 - 2.5	Galileo SVs:	3/3
				QZSS SVs:	-
Ephemeris Type:					
GPS	Precise				
GLONASS	Precise				
Beidou	Precise				
Galileo	Precise				

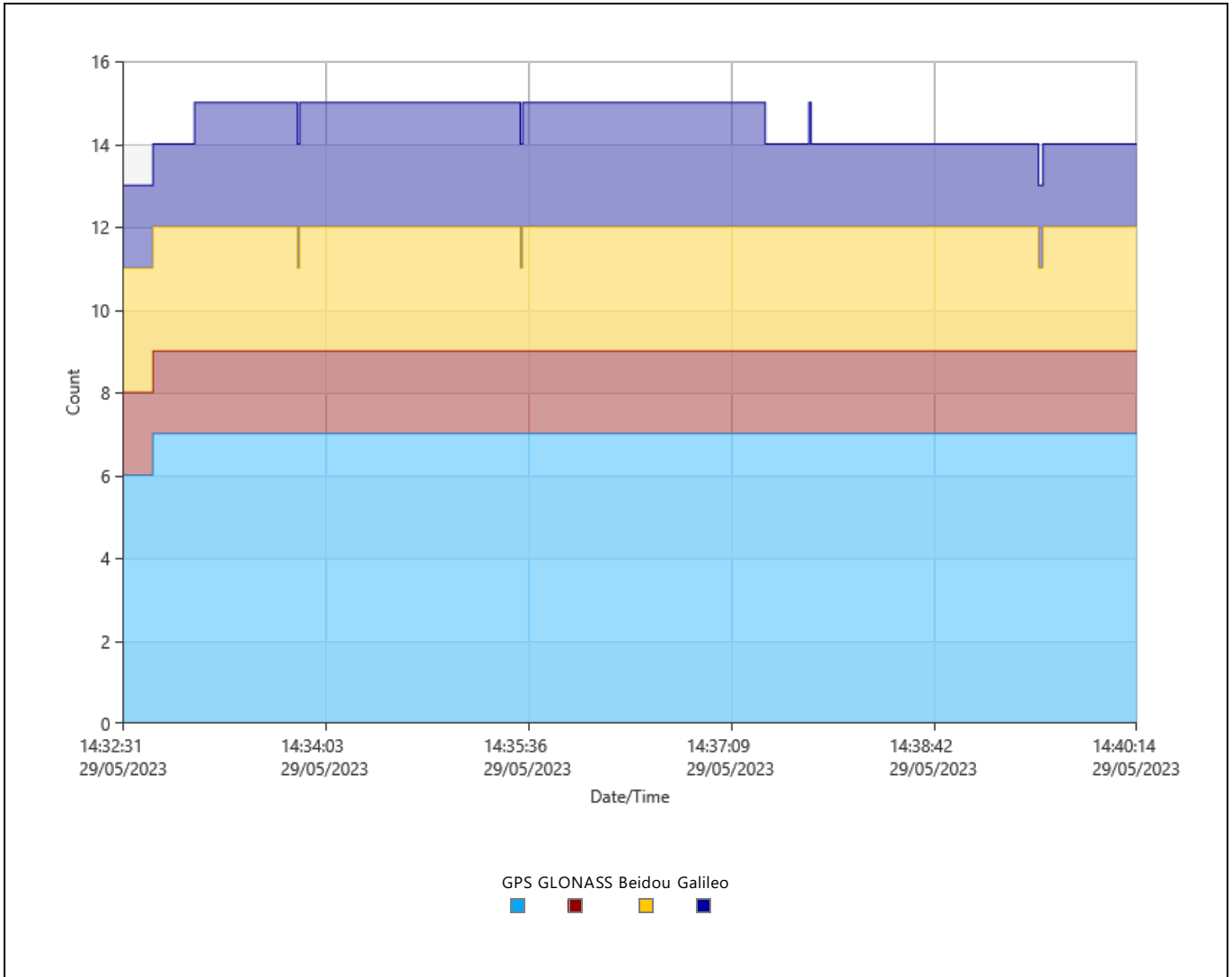
**Processing Info (29/05/2023 14:32:31 - 29/05/2023 14:40:15)**

Processed Date/Time: 09/06/2023 17:54:21

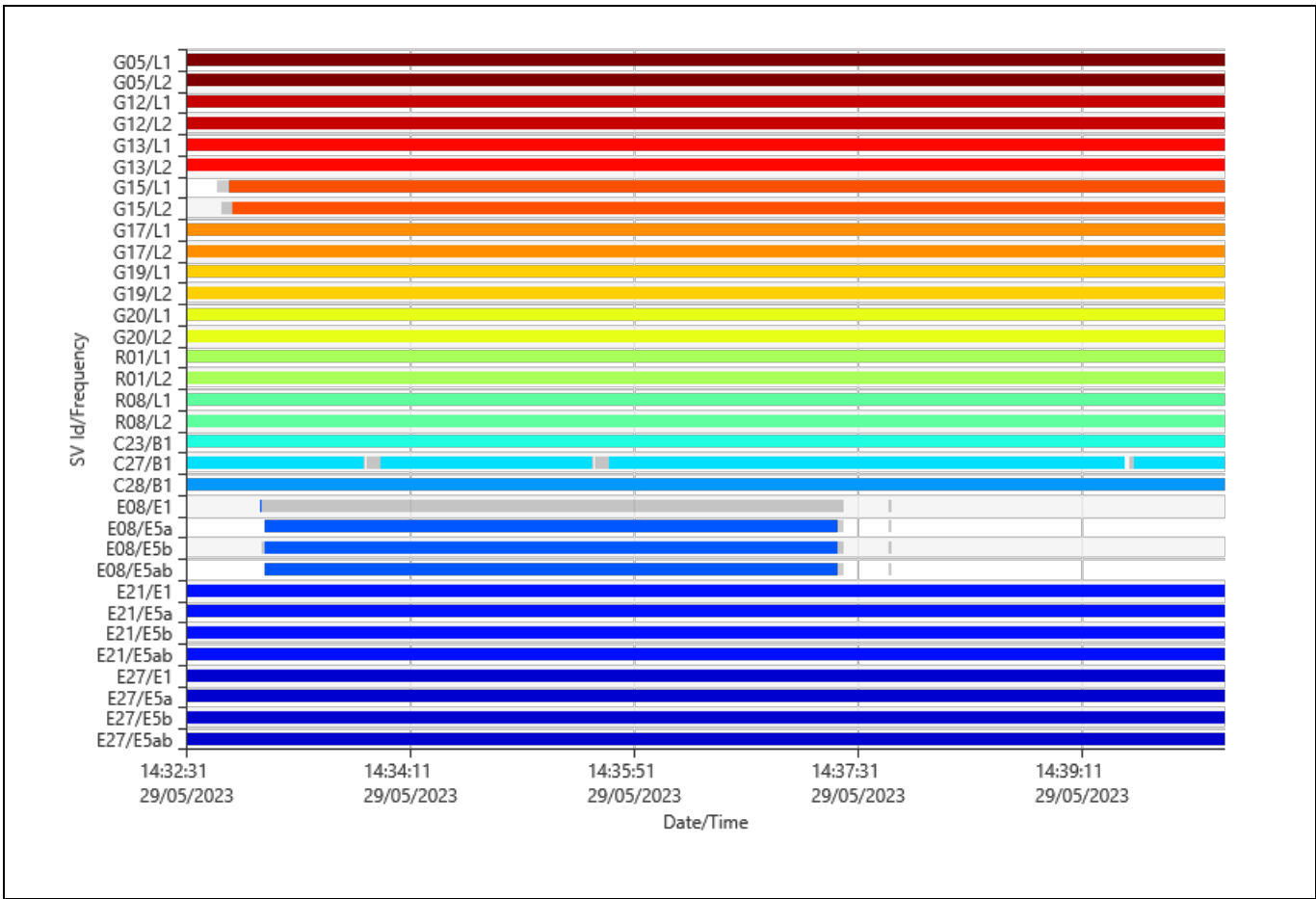
**Satellites**

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G20	-
GLONASS	R01 R08	-
Beidou	C23 C27 C28	-
Galileo	E08 E21 E27	-

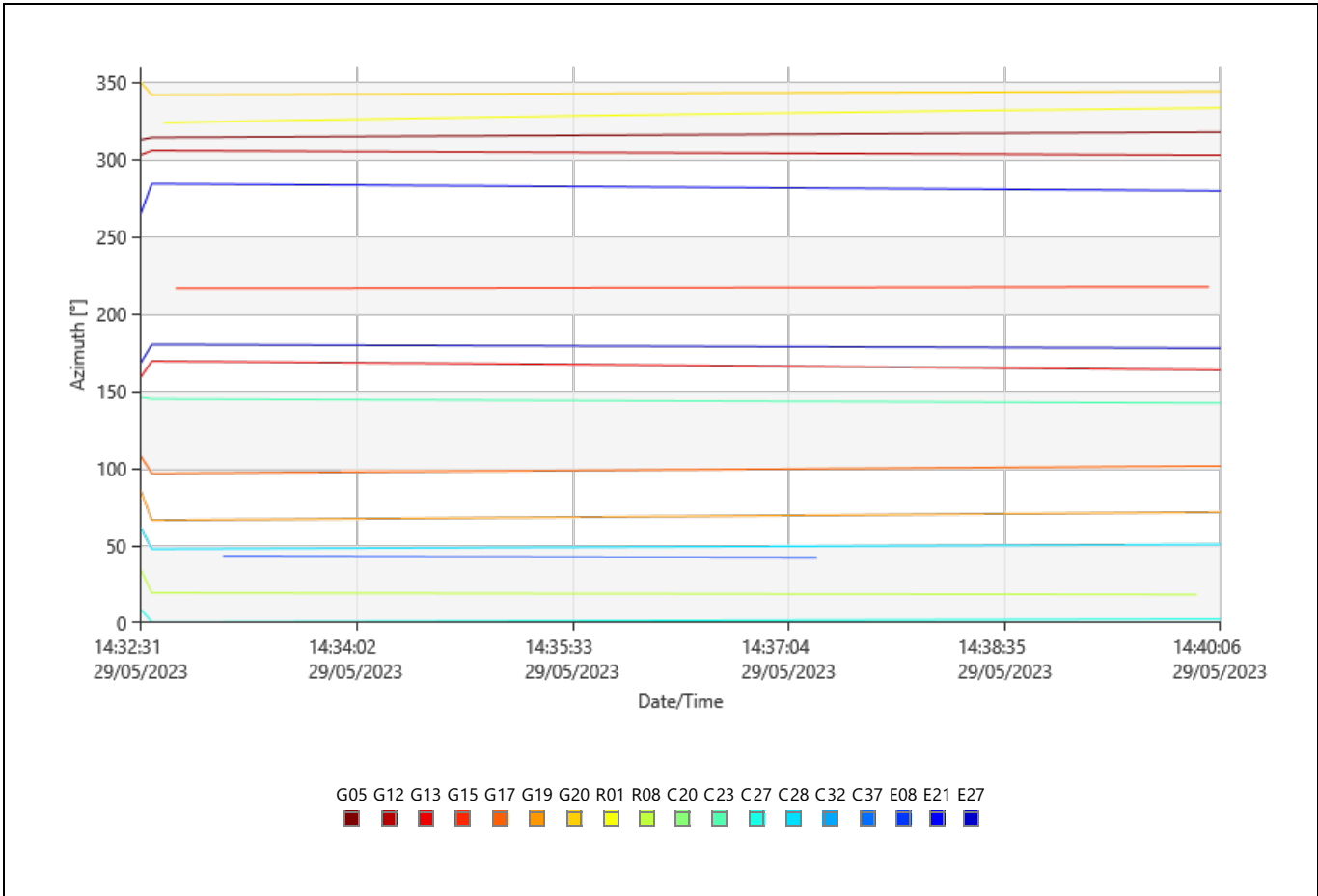
**SVs Tracked**



**Signals Tracked**



**Azimuth**



**Elevation**



## Observation Statistics

Common Epochs: 465

### GPS Observations

Frequency	Used	Rejected
L1	3,236	5
L2	3,234	5

### GLONASS Observations

Frequency	Used	Rejected
L1	930	0
L2	930	0

### Beidou Observations

Frequency	Used	Rejected
B1	1,375	16

### Galileo Observations

Frequency	Used	Rejected
E1	931	261
E5a	1,186	4
E5b	1,186	5
E5ab	1,186	4

## Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	17	6	6	12
Total	17	6	6	16
Independently fixed	58	58	58	58
Possible independently fixed	58	58	58	58

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	99.83	99.83	99.83	99.83
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.17	0.17
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 14:32:31	29/05/2023 14:40:15	00:07:44

## Residuals

## Tracking Status

### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:32:45	No Data
	29/05/2023 14:32:45	29/05/2023 14:32:50	Rejected
	29/05/2023 14:32:50	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:32:47	No Data
	29/05/2023 14:32:31	29/05/2023 14:32:51	No Data
	29/05/2023 14:32:47	29/05/2023 14:32:51	Rejected
	29/05/2023 14:32:51	29/05/2023 14:32:52	Rejected
	29/05/2023 14:32:52	29/05/2023 14:40:15	Used
	29/05/2023 14:32:51	29/05/2023 14:40:15	No Data

### G17



Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
L2	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:32:31	29/05/2023 14:33:04	No Data
	29/05/2023 14:33:04	29/05/2023 14:33:05	Used
	29/05/2023 14:33:05	29/05/2023 14:37:25	Rejected
	29/05/2023 14:37:25	29/05/2023 14:37:45	No Data
	29/05/2023 14:37:45	29/05/2023 14:37:46	Rejected
E5a	29/05/2023 14:37:46	29/05/2023 14:40:15	No Data
	29/05/2023 14:32:31	29/05/2023 14:33:06	No Data
	29/05/2023 14:33:06	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:25	Rejected
	29/05/2023 14:37:25	29/05/2023 14:37:45	No Data
E5b	29/05/2023 14:37:45	29/05/2023 14:37:46	Rejected
	29/05/2023 14:37:46	29/05/2023 14:40:15	No Data
	29/05/2023 14:32:31	29/05/2023 14:33:05	No Data
	29/05/2023 14:33:05	29/05/2023 14:33:06	Rejected
	29/05/2023 14:33:06	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:25	Rejected
E5ab	29/05/2023 14:37:25	29/05/2023 14:37:45	No Data
	29/05/2023 14:37:45	29/05/2023 14:37:46	Rejected
	29/05/2023 14:37:46	29/05/2023 14:40:15	No Data
	29/05/2023 14:32:31	29/05/2023 14:33:06	No Data
	29/05/2023 14:33:06	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:25	Rejected

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5a	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5b	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5ab	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5a	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5b	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
E5ab	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

C23

Frequency	From Epoch	To Epoch	Status
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B1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used
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## C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:32:31	29/05/2023 14:33:50	Used
	29/05/2023 14:33:50	29/05/2023 14:33:51	Rejected
	29/05/2023 14:33:51	29/05/2023 14:33:52	No Data
	29/05/2023 14:33:52	29/05/2023 14:33:58	Rejected
	29/05/2023 14:33:58	29/05/2023 14:35:32	Used
	29/05/2023 14:35:32	29/05/2023 14:35:33	Rejected
	29/05/2023 14:35:33	29/05/2023 14:35:34	No Data
	29/05/2023 14:35:34	29/05/2023 14:35:40	Rejected
	29/05/2023 14:35:40	29/05/2023 14:39:30	Used
	29/05/2023 14:39:30	29/05/2023 14:39:32	No Data
	29/05/2023 14:39:32	29/05/2023 14:39:34	Rejected
	29/05/2023 14:39:34	29/05/2023 14:40:15	Used

## C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:32:31	29/05/2023 14:40:15	Used

## Cycle Slips

Slip Count: 0

## Processing Messages

### Warning

Missing orbits for satellite R22.  
 Missing orbits for satellite R06.  
 Missing orbits for satellite R10.  
 Missing orbits for satellite R23.

# Baseline MOQ01058 - PAF-CU2-7E

## Processing Parameters (29/05/2023 14:33:31 - 29/05/2023 14:40:12)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time

## Results Baseline: MOQ01058 - PAF-CU2-7E

### Acquisition

Start Time - End Time: 29/05/2023 14:33:31 - 29/05/2023 14:40:12  
 Duration: 00:06:41

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-7E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-7E	Reference - MOQ01058	Rover - PAF-CU2-7E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 03' 01.91366" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 42' 49.87526" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,565.401 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,015,723.278 m		3,524.184 m
WGS84 Cartesian Y:	-	-5,760,467.011 m		
WGS84 Cartesian Z:	-	-1,859,226.064 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 45.64465"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 18.18481"	SD ΔLongitude:	0.000 m
ΔHeight:	-373.510 m	SD ΔHeight:	0.000 m
ΔX:	-940.355 m	SD ΔX:	0.000 m
ΔY:	1,057.917 m	SD ΔY:	0.000 m
ΔZ:	-2,997.589 m	SD ΔZ:	0.000 m
Slope Dist.:	3,314.966 m	SD Slope Dist.:	0.000 m

M0:	0.471 m	CQ 1D:	0.000 m
Q11:	0.00000011	CQ 2D:	0.000 m
Q12:	-0.00000015	CQ 3D:	0.000 m
Q22:	0.00000053		
Q13:	-0.00000003		
Q23:	0.00000010		
Q33:	0.00000008		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.3 - 2.8	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.4 - 1.6	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	6/6
		VDOP:	1.2 - 1.4	Galileo SVs:	3/3
				QZSS SVs:	-

Ephemeris Type:  
 GPS: Precise  
 GLONASS: Precise

Beidou                    Precise  
Galileo                   Precise

### Processing Info (29/05/2023 14:33:31 - 29/05/2023 14:40:12)

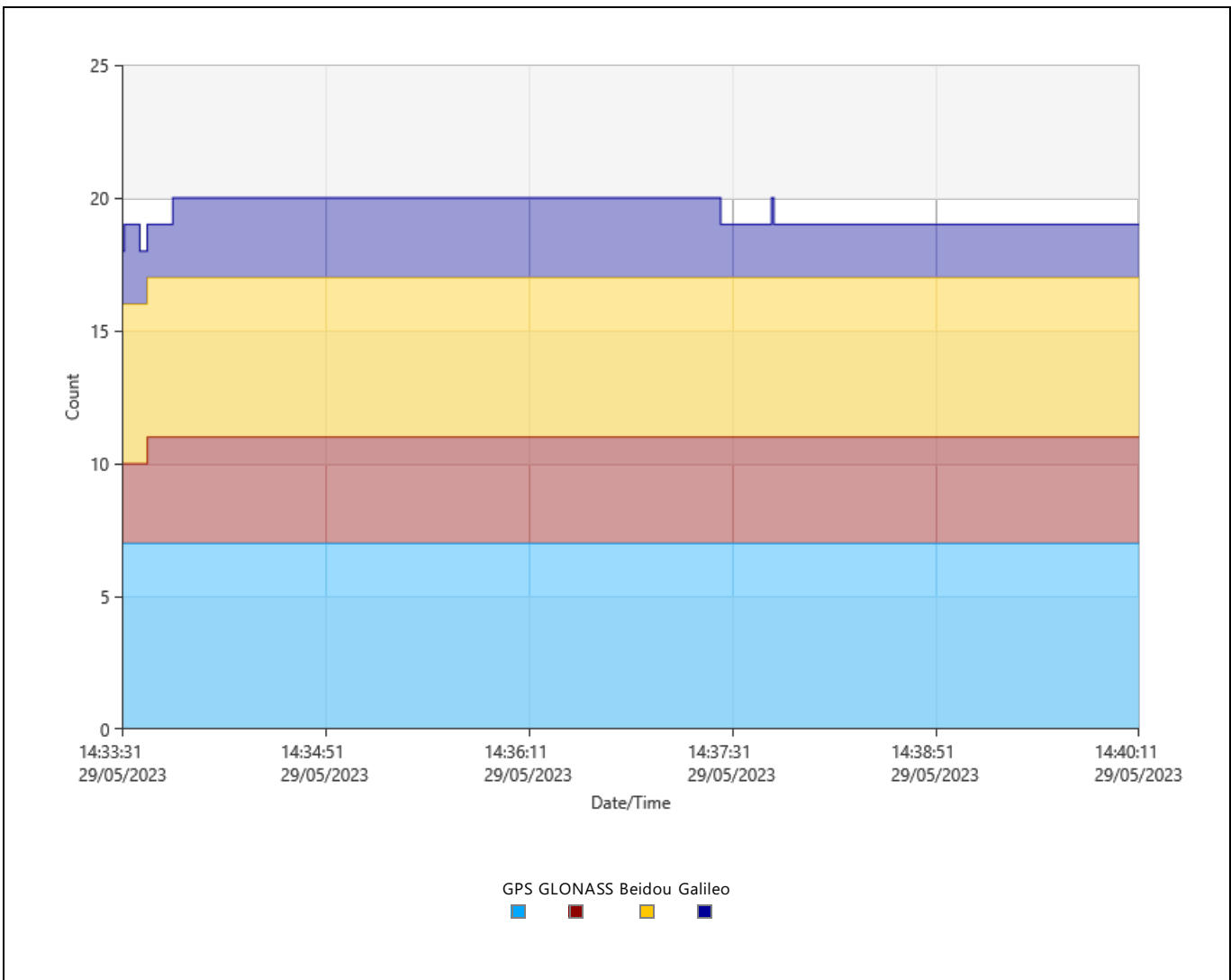
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Processed Date/Time:    09/06/2023 17:54:21

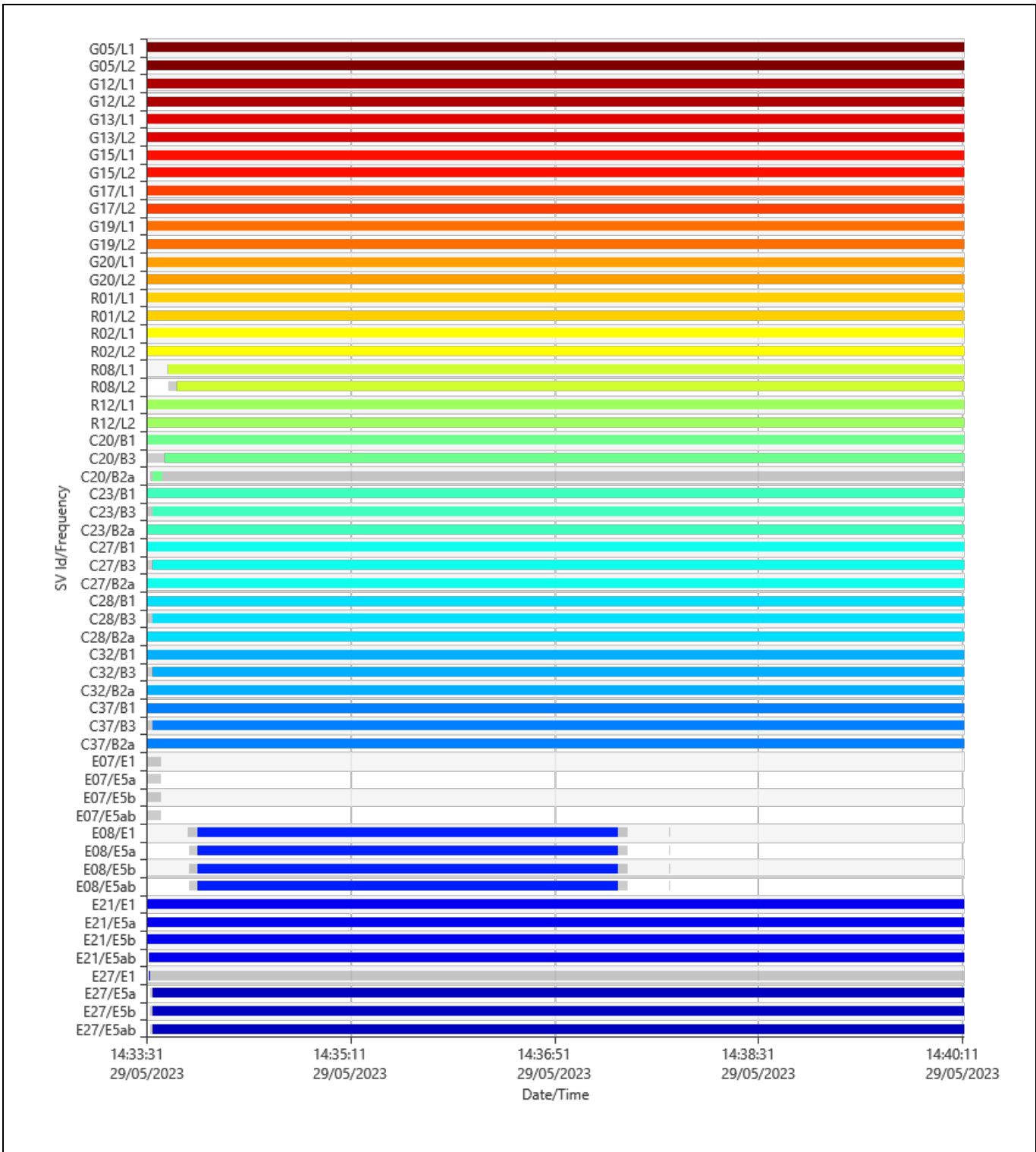
#### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G20	-
GLONASS	R01 R02 R08 R12	-
Beidou	C20 C23 C27 C28 C32 C37	-
Galileo	E08 E21 E27	-

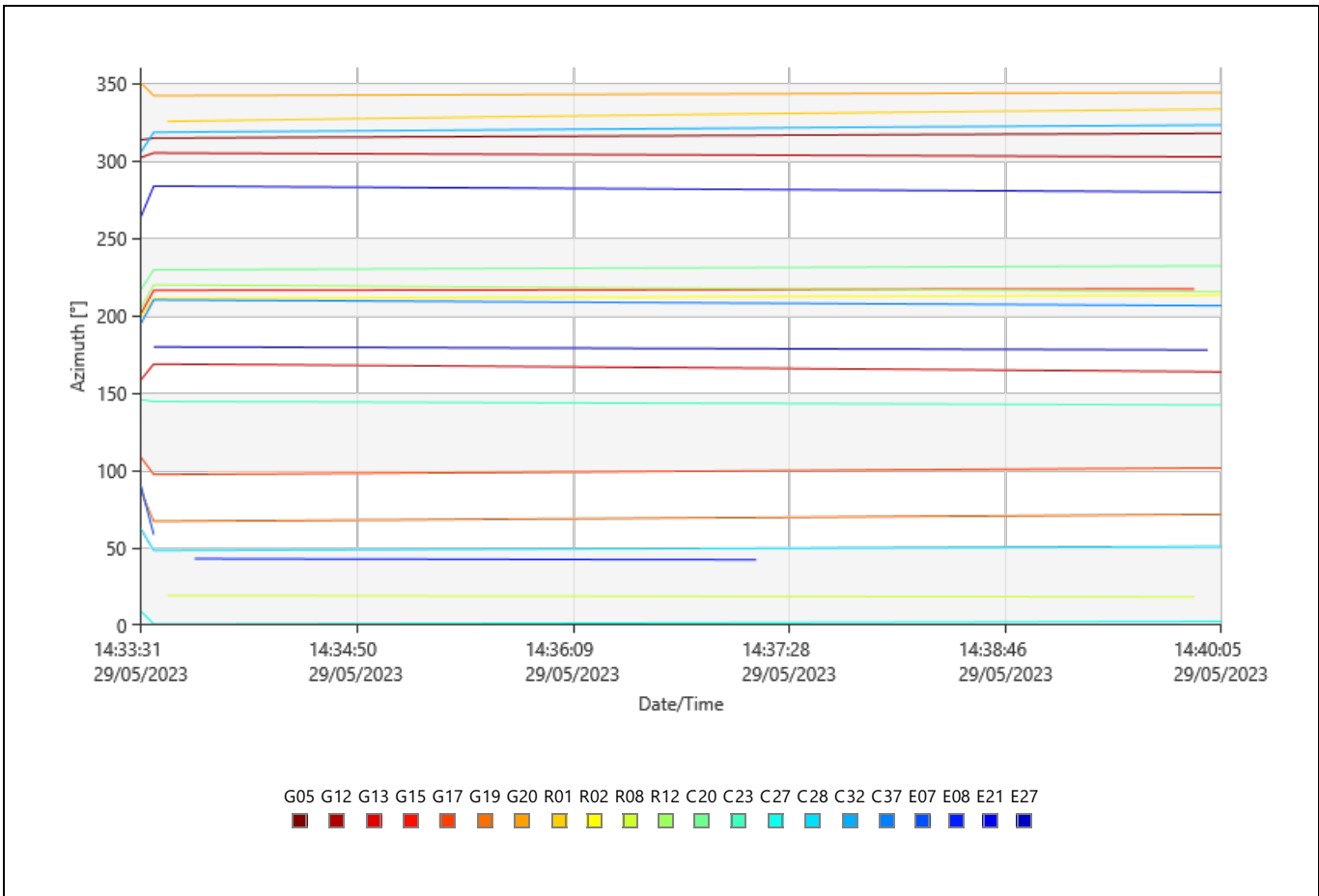
#### SVs Tracked



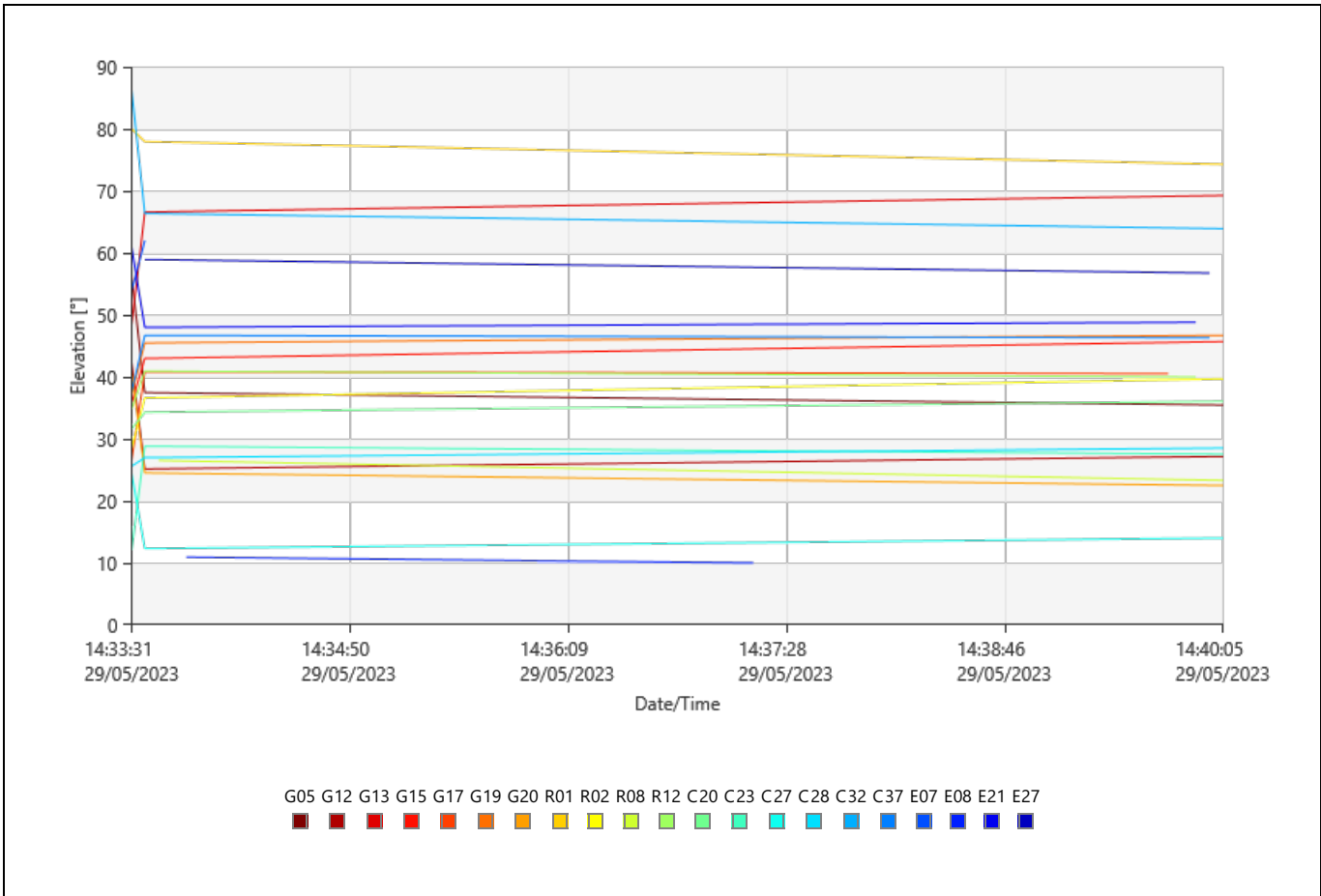
#### Signals Tracked



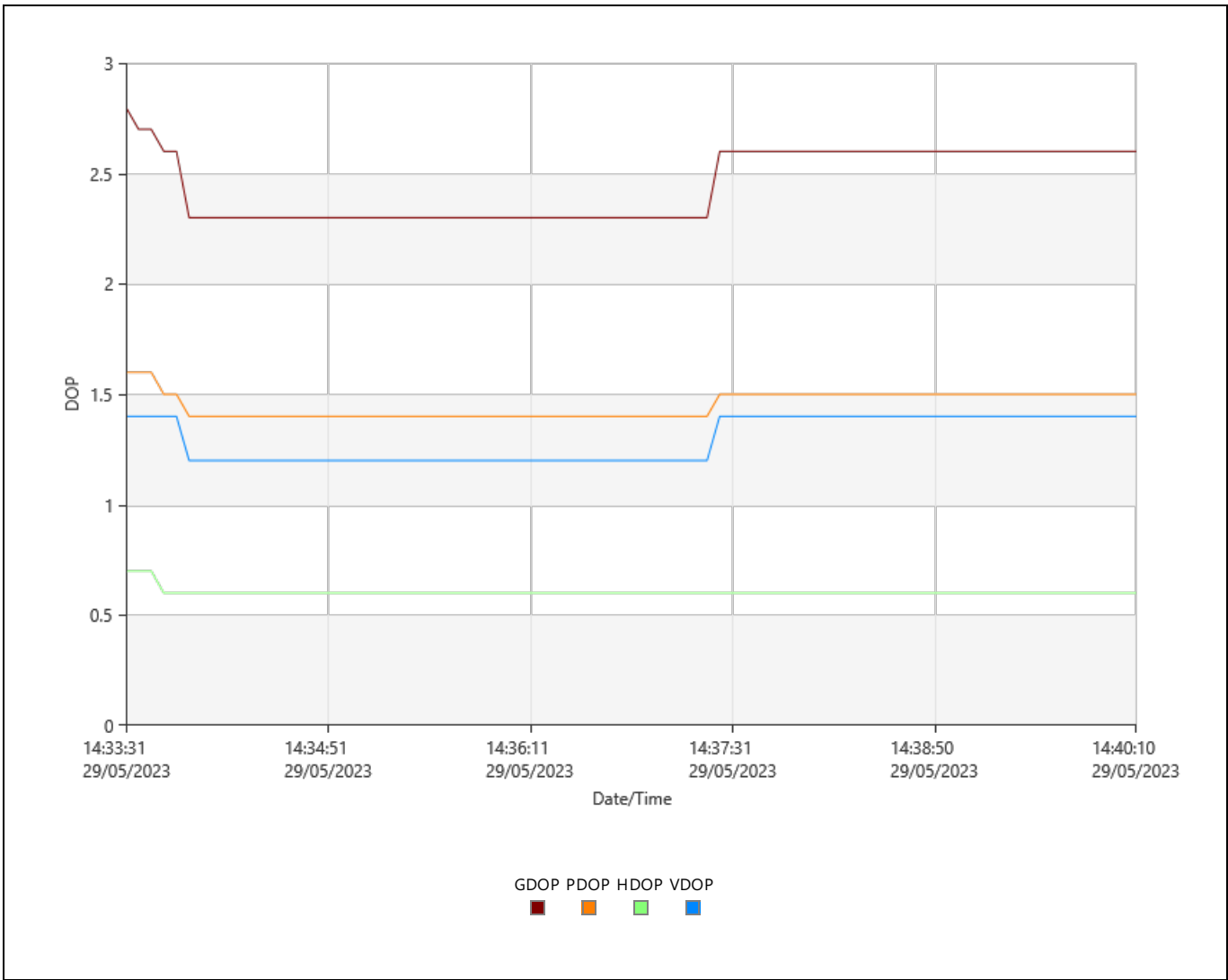
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 402

#### GPS Observations

Frequency	Used	Rejected
L1	2,814	0
L2	2,814	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,597	1
L2	1,593	4

#### Beidou Observations

Frequency	Used	Rejected
B1	2,412	0
B3	2,388	24
B2a	2,015	395

#### Galileo Observations

Frequency	Used	Rejected
E1	609	418
E5a	1,007	18
E5b	1,007	18
E5ab	1,006	18

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	20	10	18	12
Total	20	10	18	24
Independently fixed	50	50	50	50
Possible independently fixed	50	50	50	50

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	98.73	98.72	98.72	98.72
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.28	1.28	1.28
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 14:33:31	29/05/2023 14:40:12	00:06:41

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

#### R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:33:41	No Data
	29/05/2023 14:33:31	29/05/2023 14:33:42	Rejected
	29/05/2023 14:33:42	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:33:42	No Data
	29/05/2023 14:33:42	29/05/2023 14:33:46	Rejected
	29/05/2023 14:33:46	29/05/2023 14:40:12	Used

#### R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
L2	29/05/2023 14:33:31	29/05/2023 14:40:12	Used



E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:33:31	29/05/2023 14:33:38	Rejected
	29/05/2023 14:33:38	29/05/2023 14:40:12	No Data
E5a	29/05/2023 14:33:31	29/05/2023 14:33:38	Rejected
	29/05/2023 14:33:38	29/05/2023 14:40:12	No Data
E5b	29/05/2023 14:33:31	29/05/2023 14:33:38	Rejected
	29/05/2023 14:33:38	29/05/2023 14:40:12	No Data
E5ab	29/05/2023 14:33:31	29/05/2023 14:33:38	Rejected
	29/05/2023 14:33:38	29/05/2023 14:40:12	No Data

E08

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:33:31	29/05/2023 14:33:51	No Data
	29/05/2023 14:33:51	29/05/2023 14:33:56	Rejected
	29/05/2023 14:33:56	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:27	Rejected
	29/05/2023 14:37:27	29/05/2023 14:37:47	No Data
	29/05/2023 14:37:47	29/05/2023 14:37:48	Rejected
	29/05/2023 14:37:48	29/05/2023 14:40:12	No Data
E5a	29/05/2023 14:33:31	29/05/2023 14:33:52	No Data
	29/05/2023 14:33:52	29/05/2023 14:33:56	Rejected
	29/05/2023 14:33:56	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:27	Rejected
	29/05/2023 14:37:27	29/05/2023 14:37:47	No Data
	29/05/2023 14:37:47	29/05/2023 14:37:48	Rejected
E5b	29/05/2023 14:37:48	29/05/2023 14:40:12	No Data
	29/05/2023 14:33:31	29/05/2023 14:33:52	No Data
	29/05/2023 14:33:52	29/05/2023 14:33:56	Rejected
	29/05/2023 14:33:56	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:27	Rejected
	29/05/2023 14:37:27	29/05/2023 14:37:47	No Data
E5ab	29/05/2023 14:37:47	29/05/2023 14:37:48	Rejected
	29/05/2023 14:37:48	29/05/2023 14:40:12	No Data
	29/05/2023 14:33:31	29/05/2023 14:33:52	No Data
	29/05/2023 14:33:52	29/05/2023 14:33:56	Rejected
	29/05/2023 14:33:56	29/05/2023 14:37:22	Used
	29/05/2023 14:37:22	29/05/2023 14:37:27	Rejected
E5ab	29/05/2023 14:37:27	29/05/2023 14:37:47	No Data
	29/05/2023 14:37:47	29/05/2023 14:37:48	Rejected
	29/05/2023 14:37:48	29/05/2023 14:40:12	No Data
	29/05/2023 14:37:48	29/05/2023 14:40:12	No Data

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
E5a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
E5b	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
E5ab	29/05/2023 14:33:31	29/05/2023 14:33:32	No Data
	29/05/2023 14:33:32	29/05/2023 14:40:12	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:33:31	29/05/2023 14:33:32	No Data
	29/05/2023 14:33:32	29/05/2023 14:33:33	Used
	29/05/2023 14:33:33	29/05/2023 14:40:12	Rejected
E5a	29/05/2023 14:33:31	29/05/2023 14:33:33	No Data
	29/05/2023 14:33:33	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
E5b	29/05/2023 14:33:31	29/05/2023 14:33:33	No Data
	29/05/2023 14:33:33	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
E5ab	29/05/2023 14:33:31	29/05/2023 14:33:33	No Data
	29/05/2023 14:33:33	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:40	Rejected

	29/05/2023 14:33:40	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:33:33	No Data
	29/05/2023 14:33:33	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:33:39	Used
	29/05/2023 14:33:39	29/05/2023 14:40:12	Rejected

### C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

### C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

### C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

### C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

### C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:33:31	29/05/2023 14:40:12	Used
B3	29/05/2023 14:33:31	29/05/2023 14:33:34	Rejected
	29/05/2023 14:33:34	29/05/2023 14:40:12	Used
B2a	29/05/2023 14:33:31	29/05/2023 14:40:12	Used

## Cycle Slips

Slip Count: 4

SV	Frequency	Epoch	Slip Value	Flag
E08	E1	29/05/2023 14:33:56	-	RIA
	E5a	29/05/2023 14:33:56	-	RIA
	E5b	29/05/2023 14:33:56	-	RIA
	E5ab	29/05/2023 14:33:56	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-6E

Processing Parameters (29/05/2023 14:51:29 - 29/05/2023 14:56:50)

---

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

#### General Settings

Min. Distance for Ionospheric Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

#### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-6E

### Acquisition

Start Time - End Time:	29/05/2023 14:51:29 - 29/05/2023 14:56:50
Duration:	00:05:21

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-6E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-6E	Reference - MOQ01058	Rover - PAF-CU2-6E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 17.61639" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 43' 07.10469" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,393.855 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,015,319.812 m		
WGS84 Cartesian Y:	-	-5,760,857.523 m		

WGS84 Cartesian Z: - -1,857,873.110 m

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 01.34737"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 35.41425"	SD ΔLongitude:	0.000 m
ΔHeight:	-545.056 m	SD ΔHeight:	0.000 m
ΔX:	-1,343.820 m	SD ΔX:	0.000 m
ΔY:	667.406 m	SD ΔY:	0.000 m
ΔZ:	-1,644.635 m	SD ΔZ:	0.000 m
Slope Dist.:	2,226.232 m	SD Slope Dist.:	0.000 m

M0:	0.403 m	CQ 1D:	0.000 m
Q11:	0.00000019	CQ 2D:	0.000 m
Q12:	-0.00000026	CQ 3D:	0.000 m
Q22:	0.00000094		
Q13:	-0.00000007		
Q23:	0.00000015		
Q33:	0.00000014		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	1.8 - 3.2	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.3 - 1.8	GLONASS SVs:	6/6
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.8	Beidou SVs:	5/5
		VDOP:	1.1 - 1.6	Galileo SVs:	2/2
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

### Processing Info (29/05/2023 14:51:29 - 29/05/2023 14:56:50)

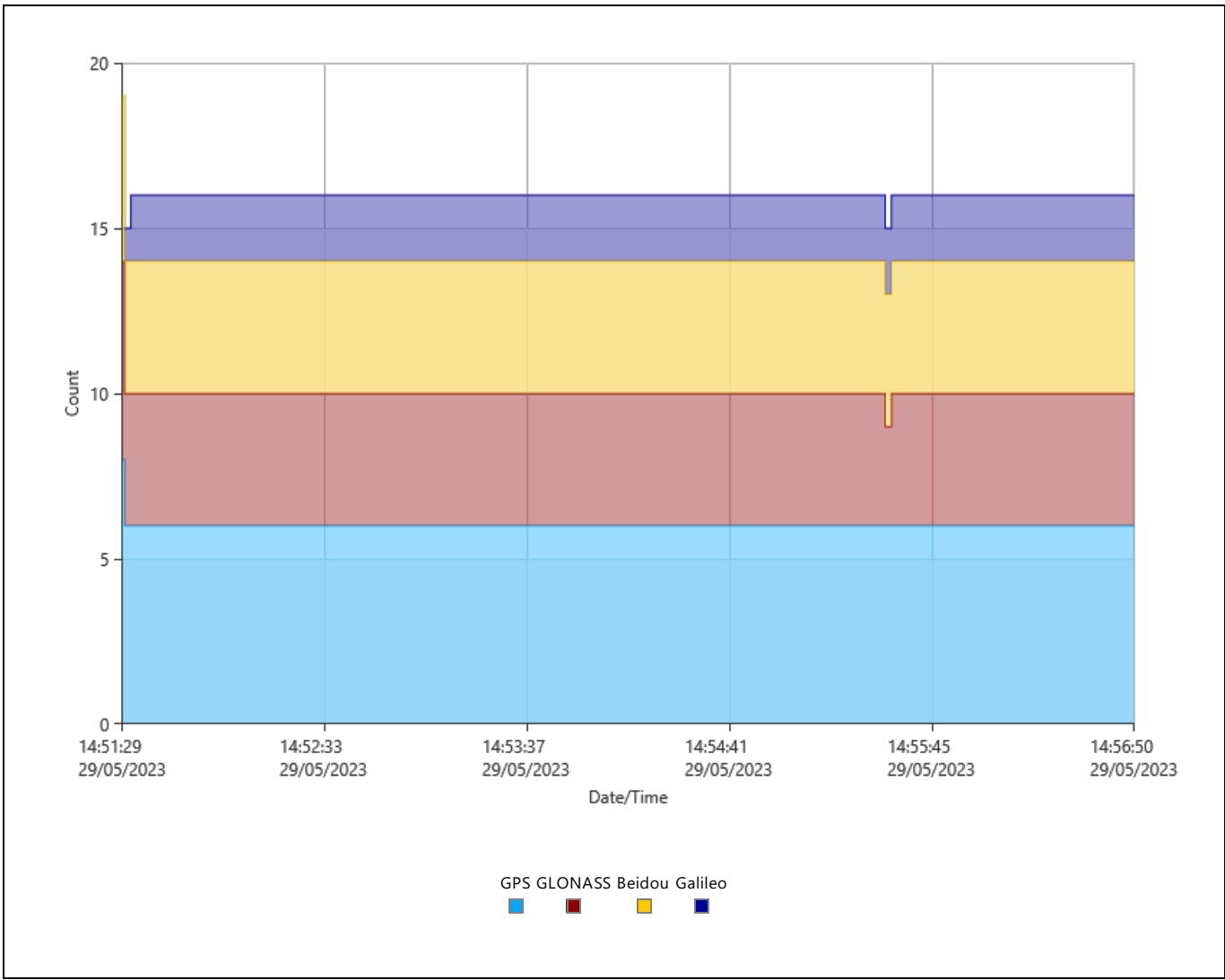
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Processed Date/Time: 09/06/2023 17:54:21

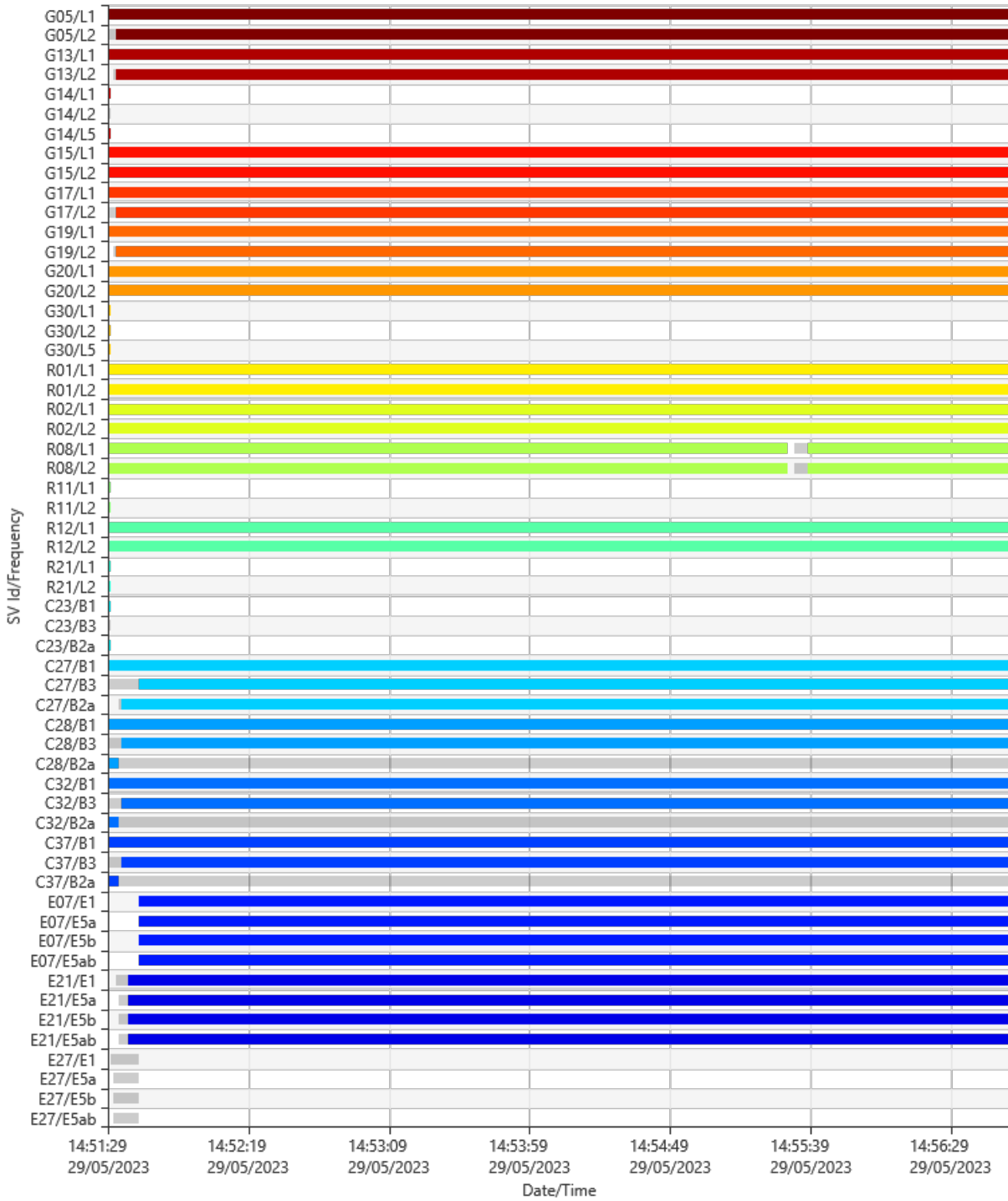
### Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G13 G14 G15 G17 G19 G20 G30	-
GLONASS	R01 R02 R08 R11 R12 R21	-
Beidou	C23 C27 C28 C32 C37	-
Galileo	E07 E21	-

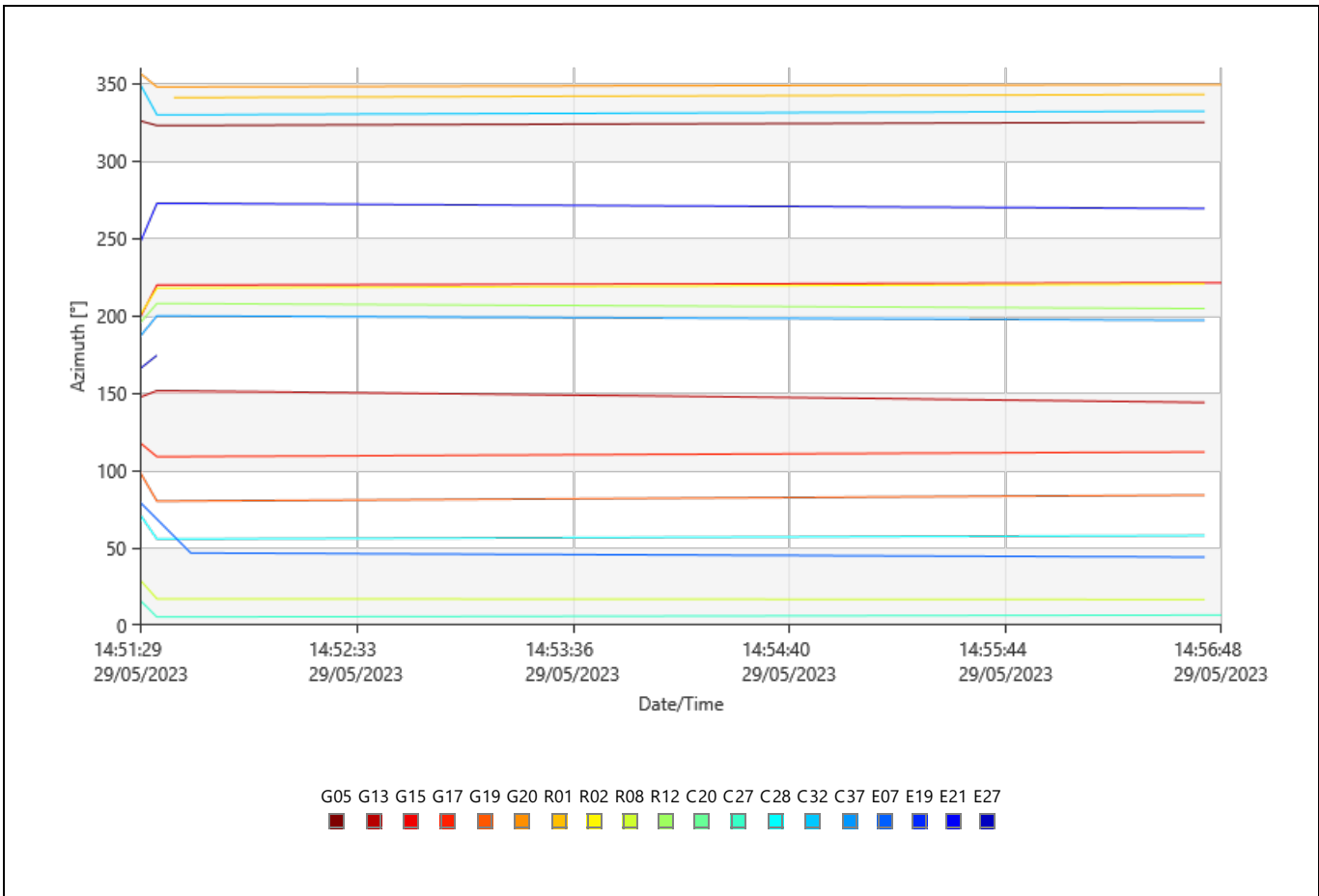
### SVs Tracked



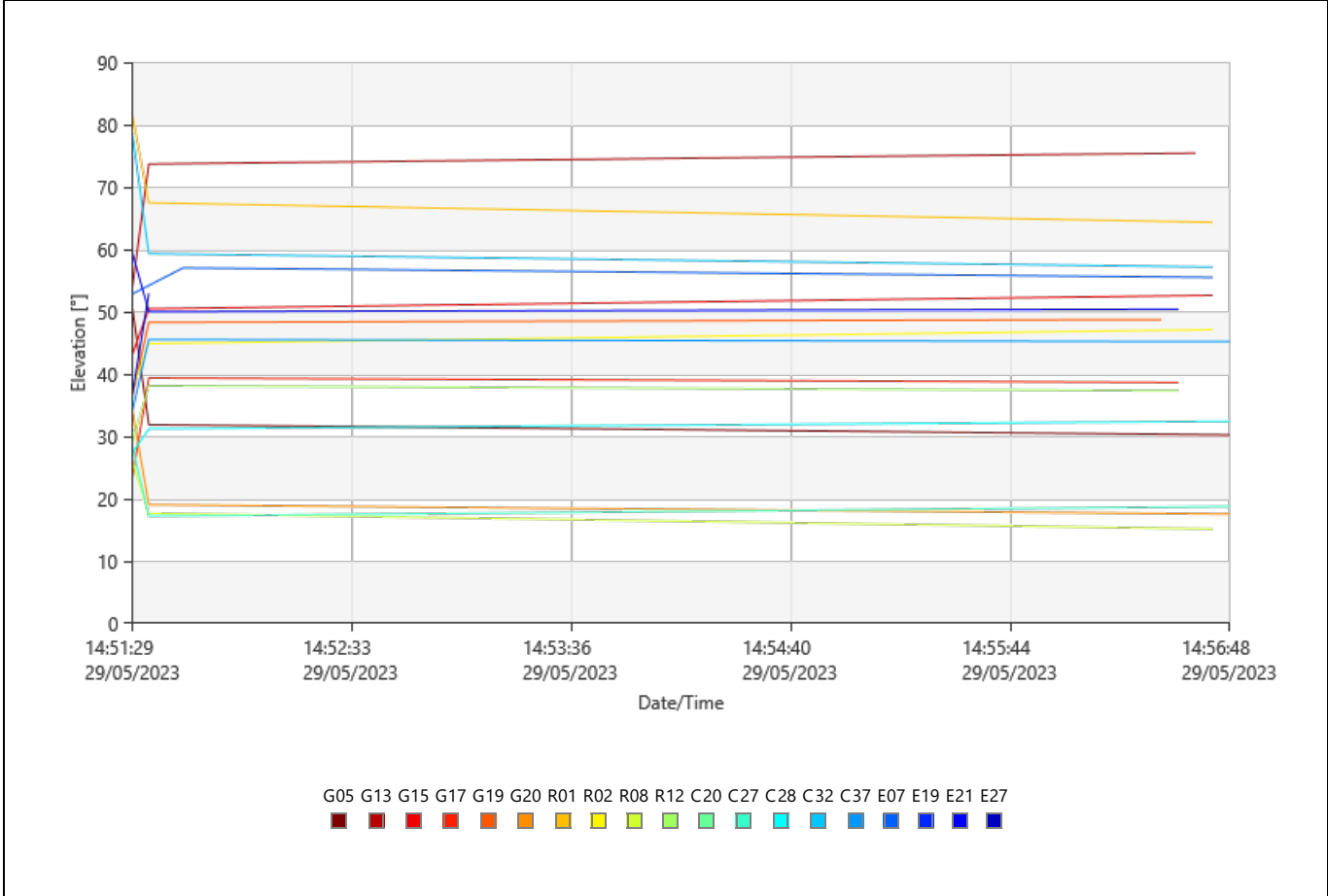
**Signals Tracked**



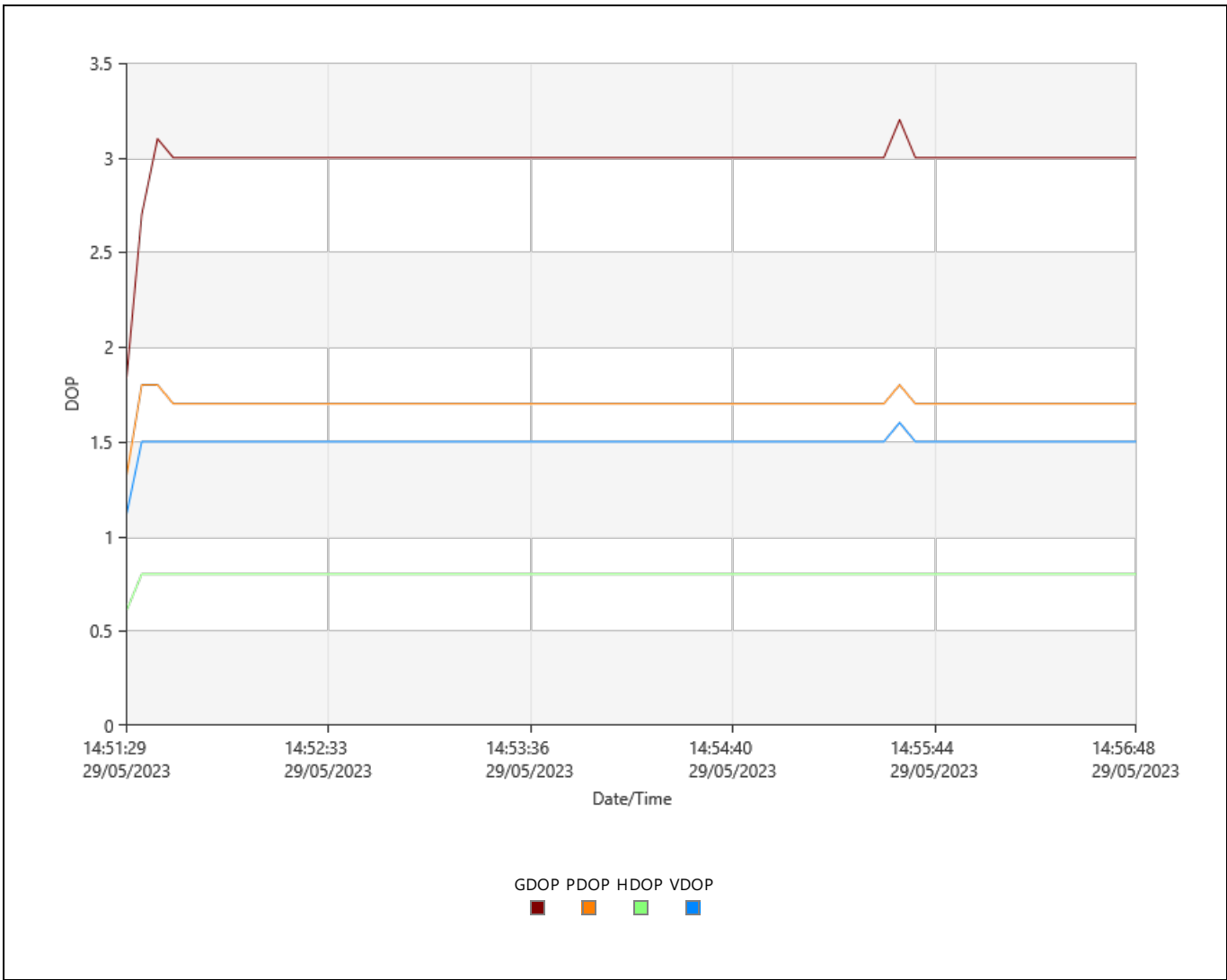
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 322

#### GPS Observations

Frequency	Used	Rejected
L1	1,934	0
L2	1,921	9
L5	2	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,283	5
L2	1,283	5

#### Beidou Observations

Frequency	Used	Rejected
B1	1,289	0
B3	1,262	27
B2a	330	955

#### Galileo Observations

Frequency	Used	Rejected
E1	626	14
E5a	626	12
E5b	626	12
E5ab	626	12

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	25	18	15	8
Total	26	18	15	16
Independently fixed	40	40	40	40
Possible independently fixed	40	40	40	40

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	99.69	100.00	100.00	100.00	100.00	100.00	97.81	98.42	98.42	98.42
Not fixed	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	2.19	1.58	1.58	1.58
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 14:51:29	29/05/2023 14:56:50	00:05:21



## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>No Data</b>
	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>Rejected</b>
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:51:32</b>	<b>Rejected</b>
	29/05/2023 14:51:32	29/05/2023 14:56:50	Used
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>No Data</b>
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:51:32</b>	<b>Rejected</b>
	29/05/2023 14:51:32	29/05/2023 14:56:50	Used

#### G14

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>
L2	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:30</b>	<b>Rejected</b>
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>
L5	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>

#### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	29/05/2023 14:51:29	29/05/2023 14:56:50	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>No Data</b>
	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>Rejected</b>
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:51:32</b>	<b>Rejected</b>
	29/05/2023 14:51:32	29/05/2023 14:56:50	Used
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>

#### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	<b>29/05/2023 14:51:29</b>	<b>29/05/2023 14:51:31</b>	<b>No Data</b>
	<b>29/05/2023 14:51:31</b>	<b>29/05/2023 14:51:32</b>	<b>Rejected</b>
	29/05/2023 14:51:32	29/05/2023 14:56:50	Used

#### G20

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	29/05/2023 14:51:29	29/05/2023 14:56:50	Used

#### G30

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>
L2	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>
L5	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	<b>29/05/2023 14:51:30</b>	<b>29/05/2023 14:56:50</b>	<b>No Data</b>

#### R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	29/05/2023 14:51:29	29/05/2023 14:56:50	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	29/05/2023 14:51:29	29/05/2023 14:56:50	Used

R08

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:55:31	Used
	29/05/2023 14:55:31	29/05/2023 14:55:33	No Data
	29/05/2023 14:55:33	29/05/2023 14:55:38	Rejected
L2	29/05/2023 14:55:38	29/05/2023 14:56:50	Used
	29/05/2023 14:51:29	29/05/2023 14:55:31	Used
	29/05/2023 14:55:31	29/05/2023 14:55:33	No Data
	29/05/2023 14:55:33	29/05/2023 14:55:38	Rejected
	29/05/2023 14:55:38	29/05/2023 14:56:50	Used

R11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data
L2	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
L2	29/05/2023 14:51:29	29/05/2023 14:56:50	Used

R21

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data
L2	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:51:29	29/05/2023 14:51:40	No Data
	29/05/2023 14:51:40	29/05/2023 14:56:50	Used
E5a	29/05/2023 14:51:29	29/05/2023 14:51:40	No Data
	29/05/2023 14:51:40	29/05/2023 14:56:50	Used
E5b	29/05/2023 14:51:29	29/05/2023 14:51:40	No Data
	29/05/2023 14:51:40	29/05/2023 14:56:50	Used
E5ab	29/05/2023 14:51:29	29/05/2023 14:51:40	No Data
	29/05/2023 14:51:40	29/05/2023 14:56:50	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 14:51:29	29/05/2023 14:51:32	No Data
	29/05/2023 14:51:32	29/05/2023 14:51:36	Rejected
	29/05/2023 14:51:36	29/05/2023 14:56:50	Used
E5a	29/05/2023 14:51:29	29/05/2023 14:51:33	No Data
	29/05/2023 14:51:33	29/05/2023 14:51:36	Rejected
	29/05/2023 14:51:36	29/05/2023 14:56:50	Used
E5b	29/05/2023 14:51:29	29/05/2023 14:51:33	No Data
	29/05/2023 14:51:33	29/05/2023 14:51:36	Rejected
	29/05/2023 14:51:36	29/05/2023 14:56:50	Used
E5ab	29/05/2023 14:51:29	29/05/2023 14:51:33	No Data
	29/05/2023 14:51:33	29/05/2023 14:51:36	Rejected
	29/05/2023 14:51:36	29/05/2023 14:56:50	Used

E27

Frequency	From Epoch	To Epoch	Status
	29/05/2023 14:51:29	29/05/2023 14:51:30	No Data

E1	29/05/2023 14:51:30	29/05/2023 14:51:40	Rejected
	29/05/2023 14:51:40	29/05/2023 14:56:50	No Data
E5a	29/05/2023 14:51:29	29/05/2023 14:51:31	No Data
	29/05/2023 14:51:31	29/05/2023 14:51:40	Rejected
	29/05/2023 14:51:40	29/05/2023 14:56:50	No Data
E5b	29/05/2023 14:51:29	29/05/2023 14:51:31	No Data
	29/05/2023 14:51:31	29/05/2023 14:51:40	Rejected
	29/05/2023 14:51:40	29/05/2023 14:56:50	No Data
E5ab	29/05/2023 14:51:29	29/05/2023 14:51:31	No Data
	29/05/2023 14:51:31	29/05/2023 14:51:40	Rejected
	29/05/2023 14:51:40	29/05/2023 14:56:50	No Data

C23

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data
B3	29/05/2023 14:51:29	29/05/2023 14:51:30	Rejected
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data
B2a	29/05/2023 14:51:29	29/05/2023 14:51:30	Used
	29/05/2023 14:51:30	29/05/2023 14:56:50	No Data

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
B3	29/05/2023 14:51:29	29/05/2023 14:51:40	Rejected
	29/05/2023 14:51:40	29/05/2023 14:56:50	Used
B2a	29/05/2023 14:51:29	29/05/2023 14:51:33	No Data
	29/05/2023 14:51:33	29/05/2023 14:51:34	Rejected
	29/05/2023 14:51:34	29/05/2023 14:56:50	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
B3	29/05/2023 14:51:29	29/05/2023 14:51:34	Rejected
	29/05/2023 14:51:34	29/05/2023 14:56:50	Used
B2a	29/05/2023 14:51:29	29/05/2023 14:51:33	Used
	29/05/2023 14:51:33	29/05/2023 14:56:50	Rejected

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
B3	29/05/2023 14:51:29	29/05/2023 14:51:34	Rejected
	29/05/2023 14:51:34	29/05/2023 14:56:50	Used
B2a	29/05/2023 14:51:29	29/05/2023 14:51:33	Used
	29/05/2023 14:51:33	29/05/2023 14:56:50	Rejected

C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 14:51:29	29/05/2023 14:56:50	Used
B3	29/05/2023 14:51:29	29/05/2023 14:51:34	Rejected
	29/05/2023 14:51:34	29/05/2023 14:56:50	Used
B2a	29/05/2023 14:51:29	29/05/2023 14:51:33	Used
	29/05/2023 14:51:33	29/05/2023 14:56:50	Rejected

Cycle Slips

Slip Count:

9

SV	Frequency	Epoch	Slip Value	Flag
G30	L5	29/05/2023 14:55:36	-	RIA
E21	E1	29/05/2023 14:51:36	-	RIA
	E5a	29/05/2023 14:51:36	-	RIA
	E5b	29/05/2023 14:51:36	-	RIA
	E5ab	29/05/2023 14:51:36	-	RIA
	E1	29/05/2023 14:51:36	-	RIA
E27	E5a	29/05/2023 14:51:36	-	RIA
	E5b	29/05/2023 14:51:36	-	RIA
	E5ab	29/05/2023 14:51:36	-	RIA
	E1	29/05/2023 14:51:36	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.  
**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.  
**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.  
 Missing orbits for satellite R06.  
 Missing orbits for satellite R10.  
 Missing orbits for satellite R23.

## Baseline MOQ01058 - PAF-CU2-11E

### Processing Parameters (29/05/2023 15:12:01 - 29/05/2023 15:18:45)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-11E

### Acquisition

Start Time - End Time:	29/05/2023 15:12:01 - 29/05/2023 15:18:45
Duration:	00:06:44

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-11E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2

East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-11E		Reference - MOQ01058	Rover - PAF-CU2-11E
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 03.50878" S	Easting:	318,107.441 m	318,082.930 m
WGS84 Longitude:	-	70° 42' 32.94826" W	Northing:	8,117,307.121 m	8,115,854.615 m
WGS84 Ellip. Height:	-	3,248.681 m	Ortho. Height:	3,897.429 m	3,207.291 m
WGS84 Cartesian X:	-	2,016,269.897 m			
WGS84 Cartesian Y:	-	-5,760,512.696 m			
WGS84 Cartesian Z:	-	-1,857,415.701 m			

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 47.23977"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 01.25781"	SD ΔLongitude:	0.000 m
ΔHeight:	-690.230 m	SD ΔHeight:	0.000 m
ΔX:	-393.736 m	SD ΔX:	0.000 m
ΔY:	1,012.232 m	SD ΔY:	0.000 m
ΔZ:	-1,187.226 m	SD ΔZ:	0.000 m
Slope Dist.:	1,609.083 m	SD Slope Dist.:	0.000 m

M0:	0.554 m	CQ 1D:	0.000 m
Q11:	0.00000011	CQ 2D:	0.000 m
Q12:	-0.00000014	CQ 3D:	0.000 m
Q22:	0.00000053		
Q13:	-0.00000004		
Q23:	0.00000016		
Q33:	0.00000015		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.8 - 3.8	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.6 - 2.1	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.8	Beidou SVs:	5/5
		VDOP:	1.5 - 1.9	Galileo SVs:	3/3
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

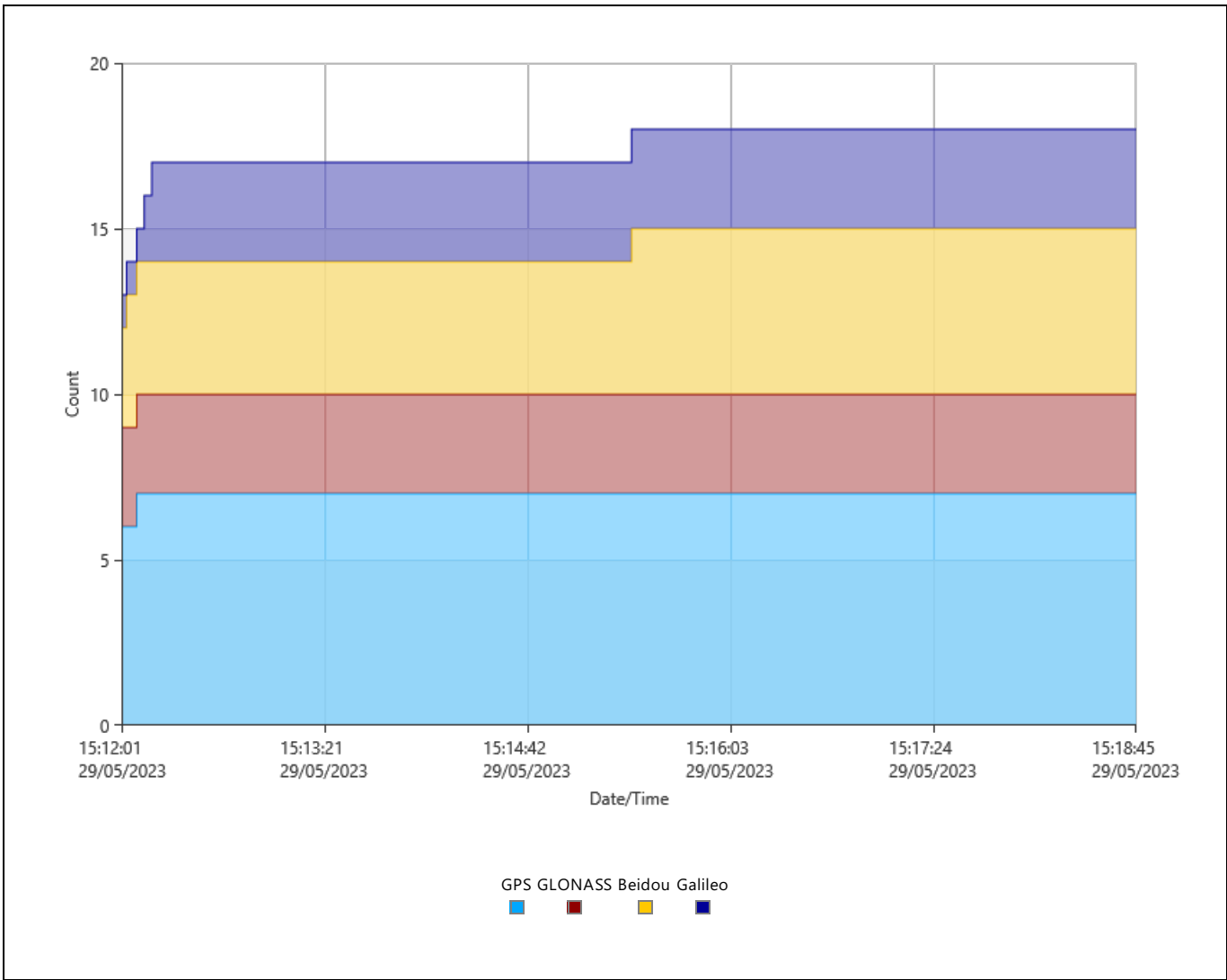
## Processing Info (29/05/2023 15:12:01 - 29/05/2023 15:18:45)

Processed Date/Time: 09/06/2023 17:54:21

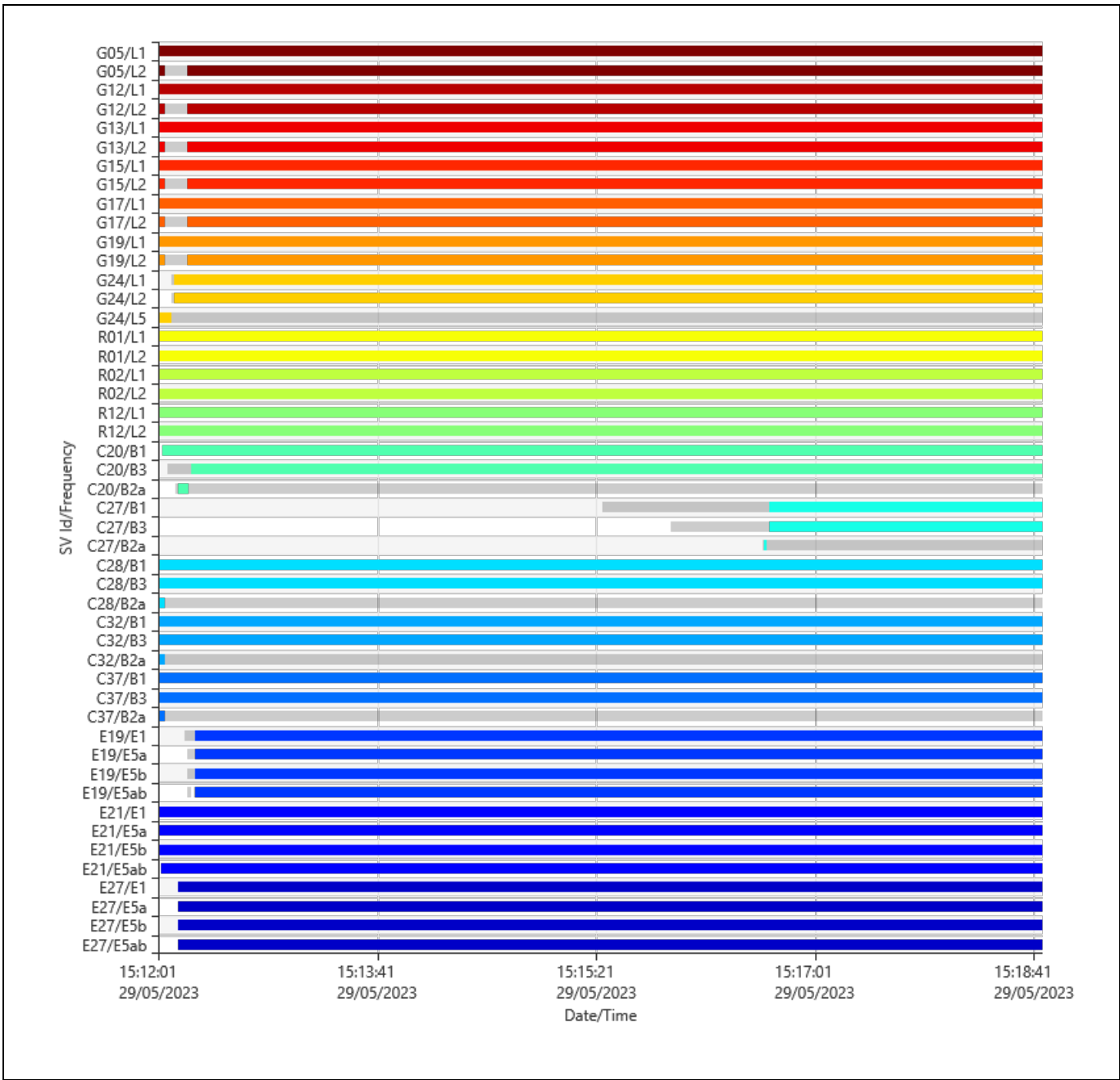
## Satellites

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G24	-
GLONASS	R01 R02 R12	-
Beidou	C20 C27 C28 C32 C37	-
Galileo	E19 E21 E27	-

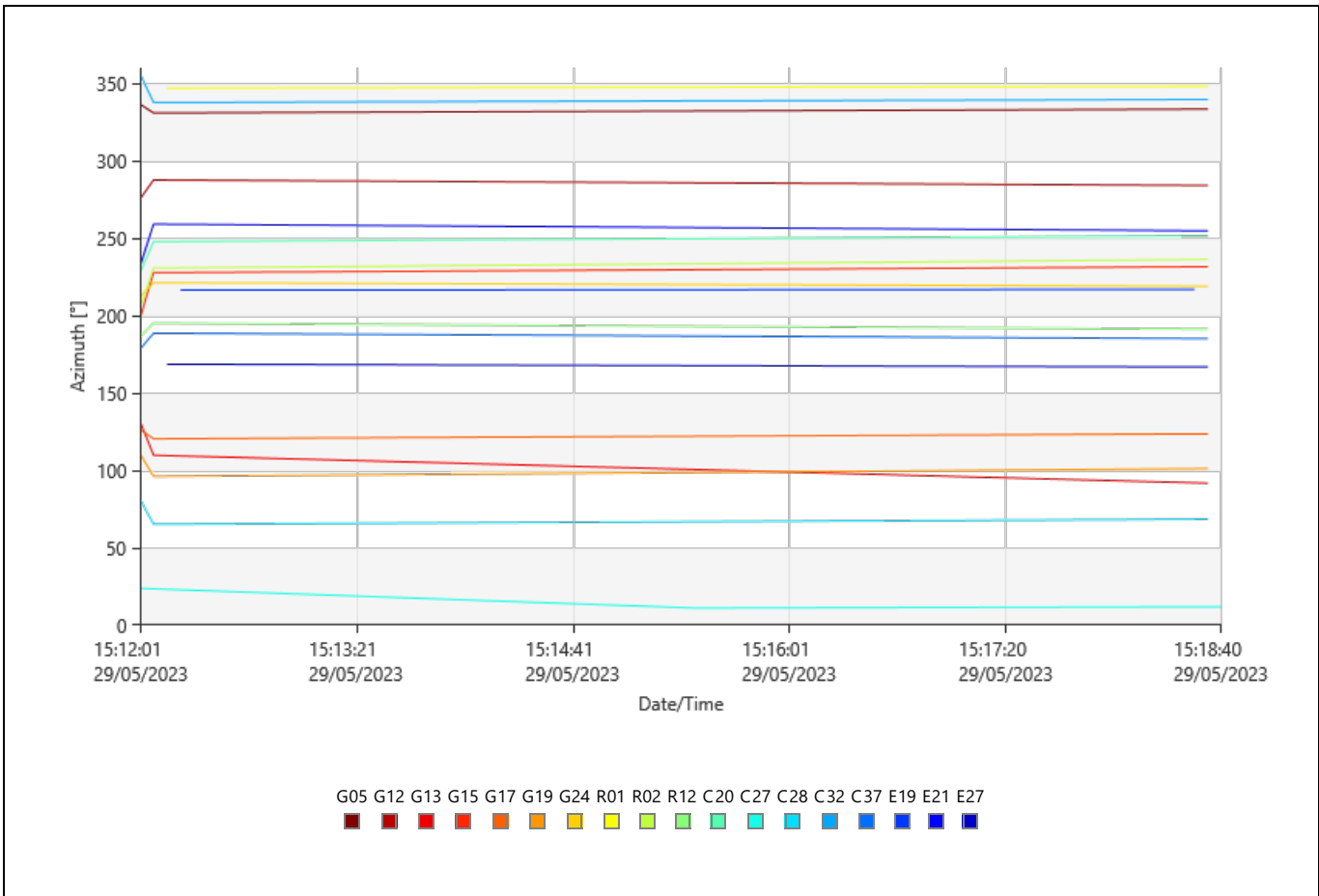
## SVs Tracked



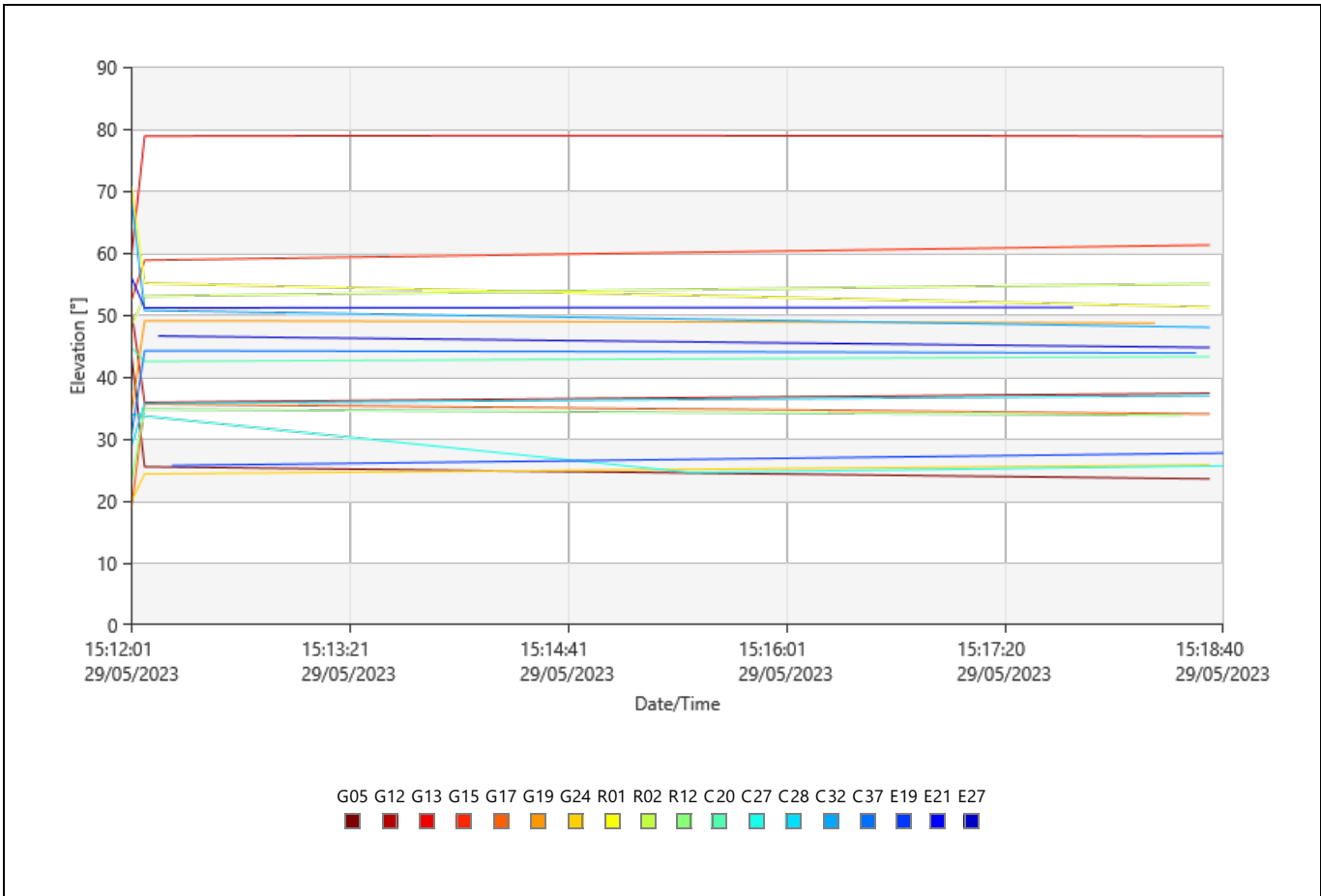
**Signals Tracked**



Azimuth

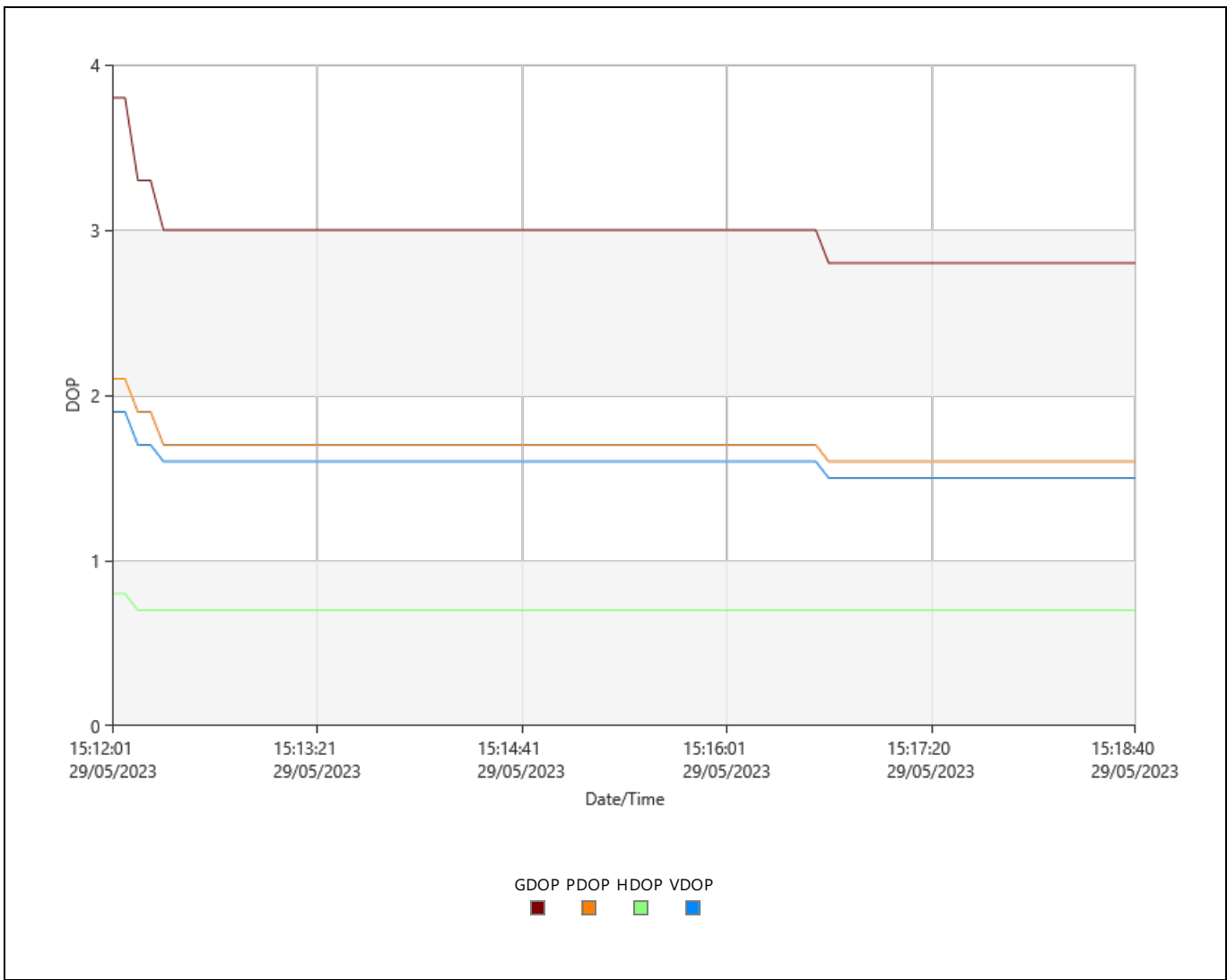


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 405

#### GPS Observations

Frequency	Used	Rejected
L1	2,828	1
L2	2,768	61
L5	6	399

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,215	0
L2	1,215	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,744	76
B3	1,731	56
B2a	15	1,726

#### Galileo Observations

Frequency	Used	Rejected
E1	1,189	5
E5a	1,189	4
E5b	1,189	4
E5ab	1,188	3

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	15	6	15	12
Total	15	6	15	16
Independently fixed	50	50	50	49
Possible independently fixed	50	50	50	50

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	97.24	100.00	100.00	100.00	100.00	100.00	100.00	99.66	99.66	99.66	99.83
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.34	0.34	0.17
Not fixed - contradiction	0.00	2.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	29/05/2023 15:12:01	29/05/2023 15:12:04	00:00:03
Fixed	29/05/2023 15:12:04	29/05/2023 15:18:45	00:06:41

## Residuals

### Tracking Status

#### G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	<b>29/05/2023 15:12:04</b>	<b>29/05/2023 15:12:14</b>	<b>Rejected</b>
	29/05/2023 15:12:14	29/05/2023 15:18:45	Used

#### G24

Frequency	From Epoch	To Epoch	Status
L1	<b>29/05/2023 15:12:01</b>	<b>29/05/2023 15:12:07</b>	<b>No Data</b>
	<b>29/05/2023 15:12:07</b>	<b>29/05/2023 15:12:08</b>	<b>Rejected</b>
	29/05/2023 15:12:08	29/05/2023 15:18:45	Used
L2	<b>29/05/2023 15:12:01</b>	<b>29/05/2023 15:12:07</b>	<b>No Data</b>
	<b>29/05/2023 15:12:07</b>	<b>29/05/2023 15:12:08</b>	<b>Rejected</b>
	29/05/2023 15:12:08	29/05/2023 15:18:45	Used
L5	29/05/2023 15:12:01	29/05/2023 15:12:07	Used
	<b>29/05/2023 15:12:07</b>	<b>29/05/2023 15:18:45</b>	<b>Rejected</b>

#### R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:18:45	Used

#### R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:18:45	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
L2	29/05/2023 15:12:01	29/05/2023 15:18:45	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:12:01	29/05/2023 15:12:13	No Data
	29/05/2023 15:12:13	29/05/2023 15:12:18	Rejected
	29/05/2023 15:12:18	29/05/2023 15:18:45	Used
E5a	29/05/2023 15:12:01	29/05/2023 15:12:14	No Data
	29/05/2023 15:12:14	29/05/2023 15:12:18	Rejected
	29/05/2023 15:12:18	29/05/2023 15:18:45	Used
E5b	29/05/2023 15:12:01	29/05/2023 15:12:14	No Data
	29/05/2023 15:12:14	29/05/2023 15:12:18	Rejected
	29/05/2023 15:12:18	29/05/2023 15:18:45	Used
E5ab	29/05/2023 15:12:01	29/05/2023 15:12:14	No Data
	29/05/2023 15:12:14	29/05/2023 15:12:16	Rejected
	29/05/2023 15:12:16	29/05/2023 15:12:17	No Data
	29/05/2023 15:12:17	29/05/2023 15:12:18	Rejected
	29/05/2023 15:12:18	29/05/2023 15:18:45	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
E5a	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
E5b	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
E5ab	29/05/2023 15:12:01	29/05/2023 15:12:02	No Data
	29/05/2023 15:12:02	29/05/2023 15:18:45	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:12:01	29/05/2023 15:12:10	No Data
	29/05/2023 15:12:10	29/05/2023 15:18:45	Used
E5a	29/05/2023 15:12:01	29/05/2023 15:12:10	No Data
	29/05/2023 15:12:10	29/05/2023 15:18:45	Used
E5b	29/05/2023 15:12:01	29/05/2023 15:12:10	No Data
	29/05/2023 15:12:10	29/05/2023 15:18:45	Used
E5ab	29/05/2023 15:12:01	29/05/2023 15:12:10	No Data
	29/05/2023 15:12:10	29/05/2023 15:18:45	Used

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:12:01	29/05/2023 15:12:03	No Data
	29/05/2023 15:12:03	29/05/2023 15:18:45	Used
B3	29/05/2023 15:12:01	29/05/2023 15:12:05	No Data
	29/05/2023 15:12:05	29/05/2023 15:12:16	Rejected
	29/05/2023 15:12:16	29/05/2023 15:18:45	Used
B2a	29/05/2023 15:12:01	29/05/2023 15:12:09	No Data
	29/05/2023 15:12:09	29/05/2023 15:12:10	Rejected
	29/05/2023 15:12:10	29/05/2023 15:12:15	Used
	29/05/2023 15:12:15	29/05/2023 15:18:45	Rejected

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:12:01	29/05/2023 15:15:24	No Data
	29/05/2023 15:15:24	29/05/2023 15:16:40	Rejected
	29/05/2023 15:16:40	29/05/2023 15:18:45	Used
B3	29/05/2023 15:12:01	29/05/2023 15:15:55	No Data
	29/05/2023 15:15:55	29/05/2023 15:16:40	Rejected
	29/05/2023 15:16:40	29/05/2023 15:18:45	Used
B2a	29/05/2023 15:12:01	29/05/2023 15:16:37	No Data
	29/05/2023 15:16:37	29/05/2023 15:16:38	Rejected
	29/05/2023 15:16:38	29/05/2023 15:16:39	Used
	29/05/2023 15:16:39	29/05/2023 15:18:45	Rejected

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B3	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B2a	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	29/05/2023 15:12:04	29/05/2023 15:18:45	Rejected

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B3	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B2a	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	29/05/2023 15:12:04	29/05/2023 15:18:45	Rejected

C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B3	29/05/2023 15:12:01	29/05/2023 15:18:45	Used
B2a	29/05/2023 15:12:01	29/05/2023 15:12:04	Used
	29/05/2023 15:12:04	29/05/2023 15:18:45	Rejected

## Cycle Slips

Slip Count: 3

SV	Frequency	Epoch	Slip Value	Flag
E19	E1	29/05/2023 15:12:18	-	RIA
	E5a	29/05/2023 15:12:18	-	RIA
	E5b	29/05/2023 15:12:18	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

# Baseline MOQ01058 - PAF-CU2-9E

## Processing Parameters (29/05/2023 15:17:34 - 29/05/2023 15:23:58)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionosphere Minimised: 15 km

Possible Ambiguities Fix up to: 300 km  
 Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
 Time System: Local Time  
 Leap Seconds: 18

**Results Baseline: MOQ01058 - PAF-CU2-9E**

**Acquisition**

Start Time - End Time: 29/05/2023 15:17:34 - 29/05/2023 15:23:58  
 Duration: 00:06:24

**Antennas**

	Reference - MOQ01058	Rover - PAF-CU2-9E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-9E		Reference - MOQ01058	Rover - PAF-CU2-9E
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 01' 59.57989" S	Easting:	318,107.441 m	317,491.353 m
WGS84 Longitude:	-	70° 42' 52.91628" W	Northing:	8,117,307.121 m	8,115,970.222 m
WGS84 Ellip. Height:	-	3,294.202 m	Ortho. Height:	3,897.429 m	3,252.859 m
WGS84 Cartesian X:	-	2,015,738.291 m			
WGS84 Cartesian Y:	-	-5,760,782.354 m			
WGS84 Cartesian Z:	-	-1,857,313.494 m			

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 00' 43.31088"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 21.22584"	SD ΔLongitude:	0.000 m
ΔHeight:	-644.709 m	SD ΔHeight:	0.000 m
ΔX:	-925.341 m	SD ΔX:	0.000 m
ΔY:	742.574 m	SD ΔY:	0.000 m
ΔZ:	-1,085.019 m	SD ΔZ:	0.000 m
Slope Dist.:	1,607.775 m	SD Slope Dist.:	0.000 m

M0:	0.423 m	CQ 1D:	0.000 m
Q11:	0.00000014	CQ 2D:	0.000 m
Q12:	-0.00000021	CQ 3D:	0.000 m
Q22:	0.00000069		
Q13:	-0.00000012		
Q23:	0.00000030		
Q33:	0.00000027		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.8 - 4.3	GPS SVs:	6/6
Solution Optimisation:	None	PDOP:	2.2 - 2.4	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.8 - 1.0	Beidou SVs:	2/2
		VDOP:	2.0 - 2.1	Galileo SVs:	4/4
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

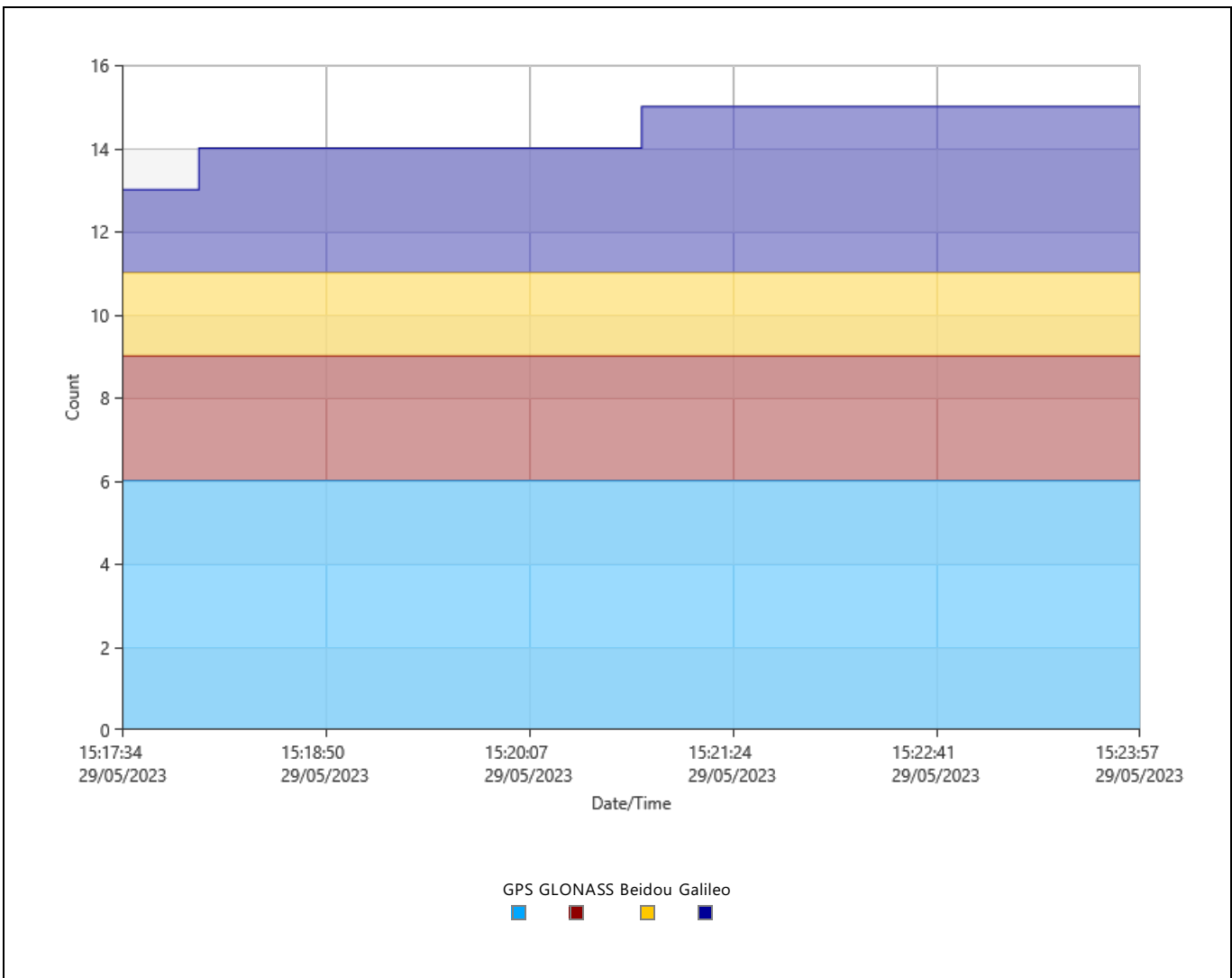
### Processing Info (29/05/2023 15:17:34 - 29/05/2023 15:23:58)

Processed Date/Time: 09/06/2023 17:54:21

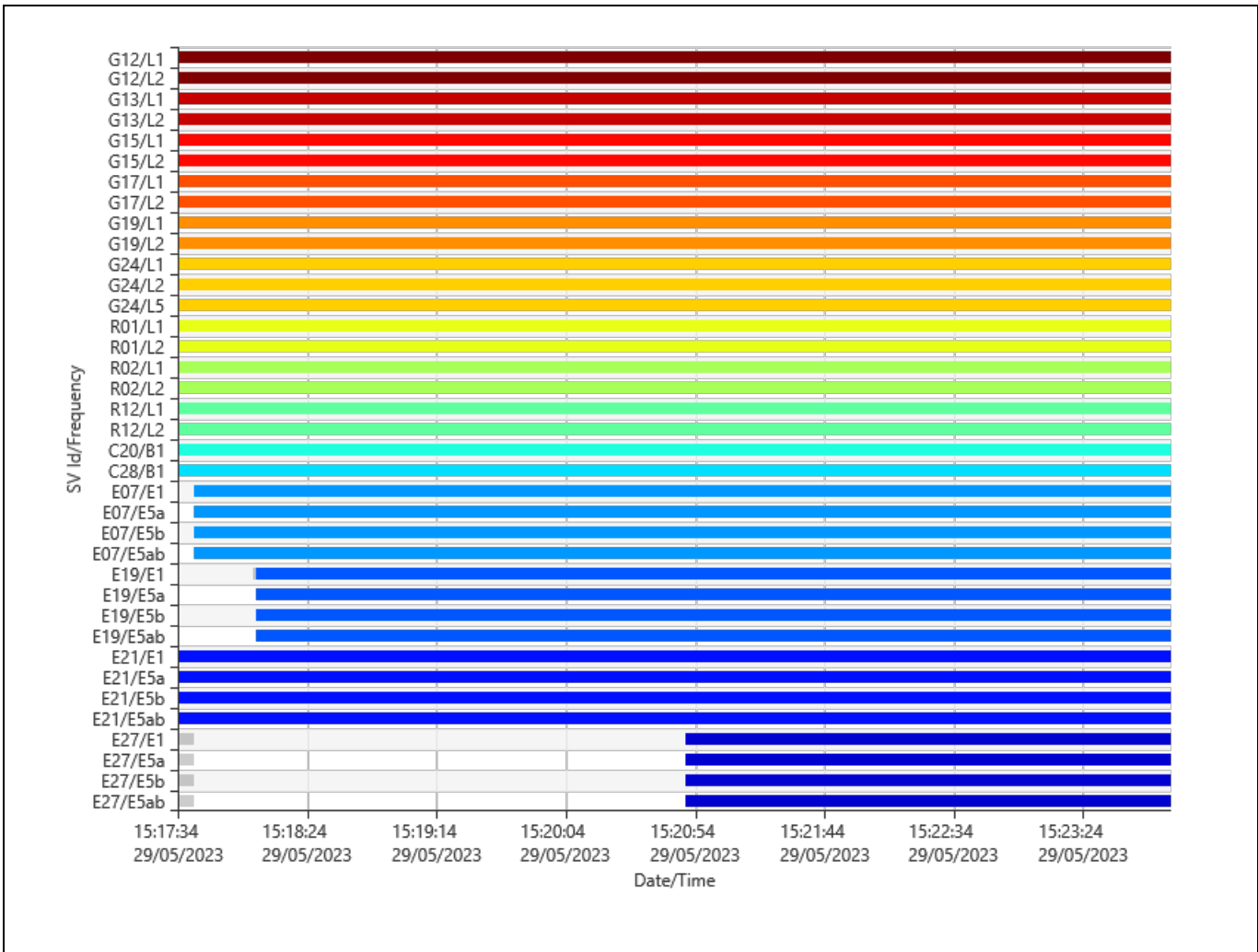
### Satellites

Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G17 G19 G24	-
GLONASS	R01 R02 R12	-
Beidou	C20 C28	-
Galileo	E07 E19 E21 E27	-

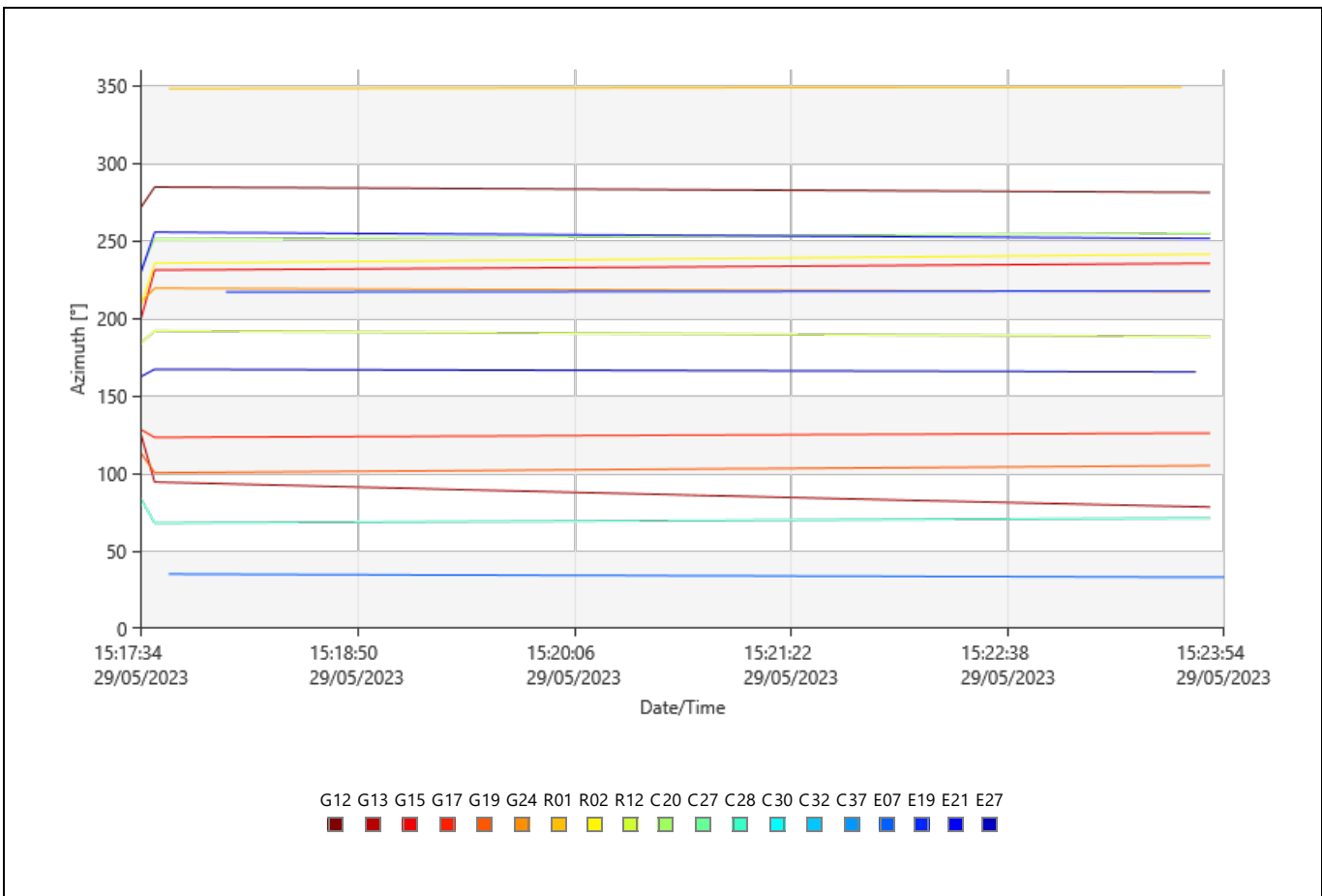
### SVs Tracked



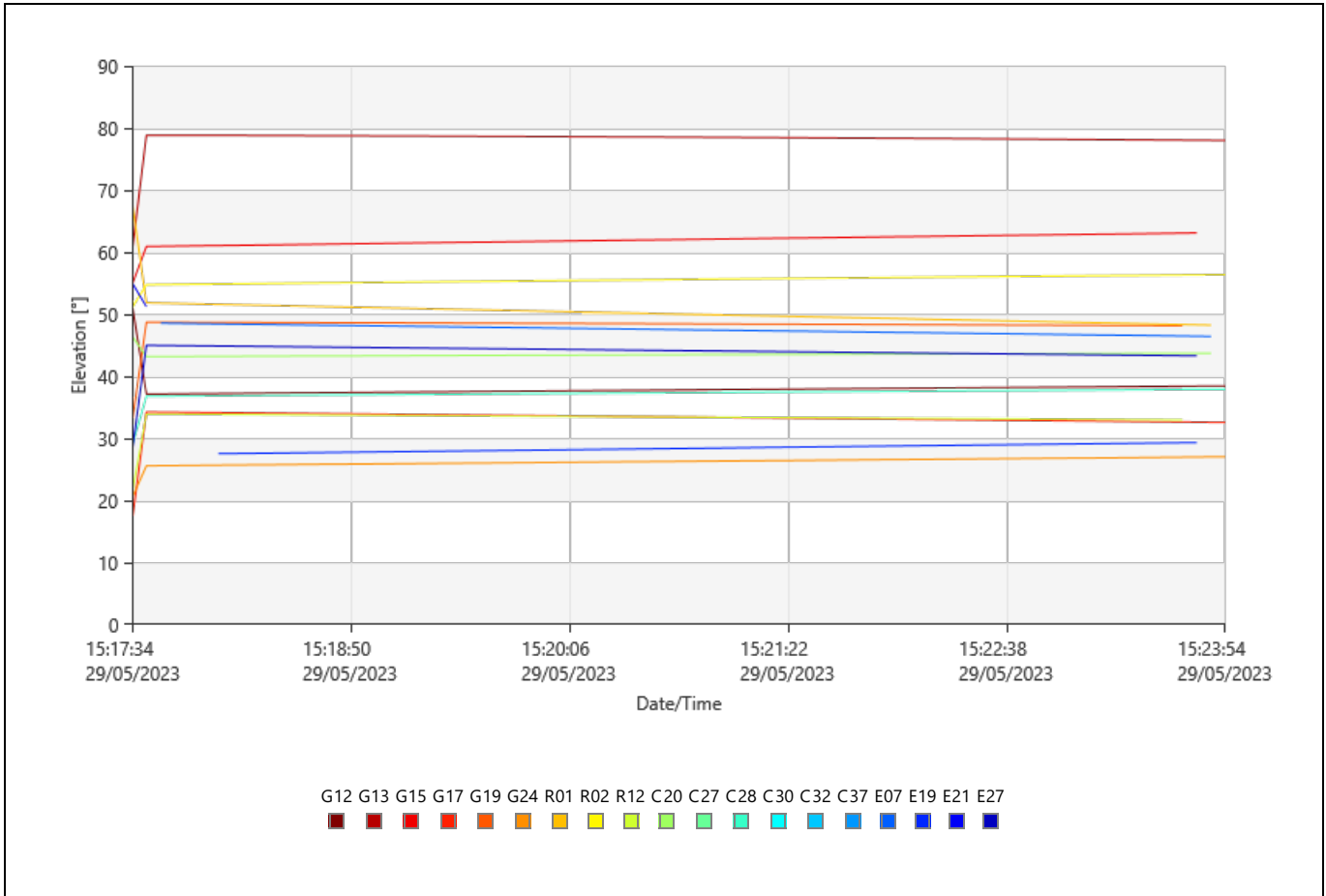
### Signals Tracked



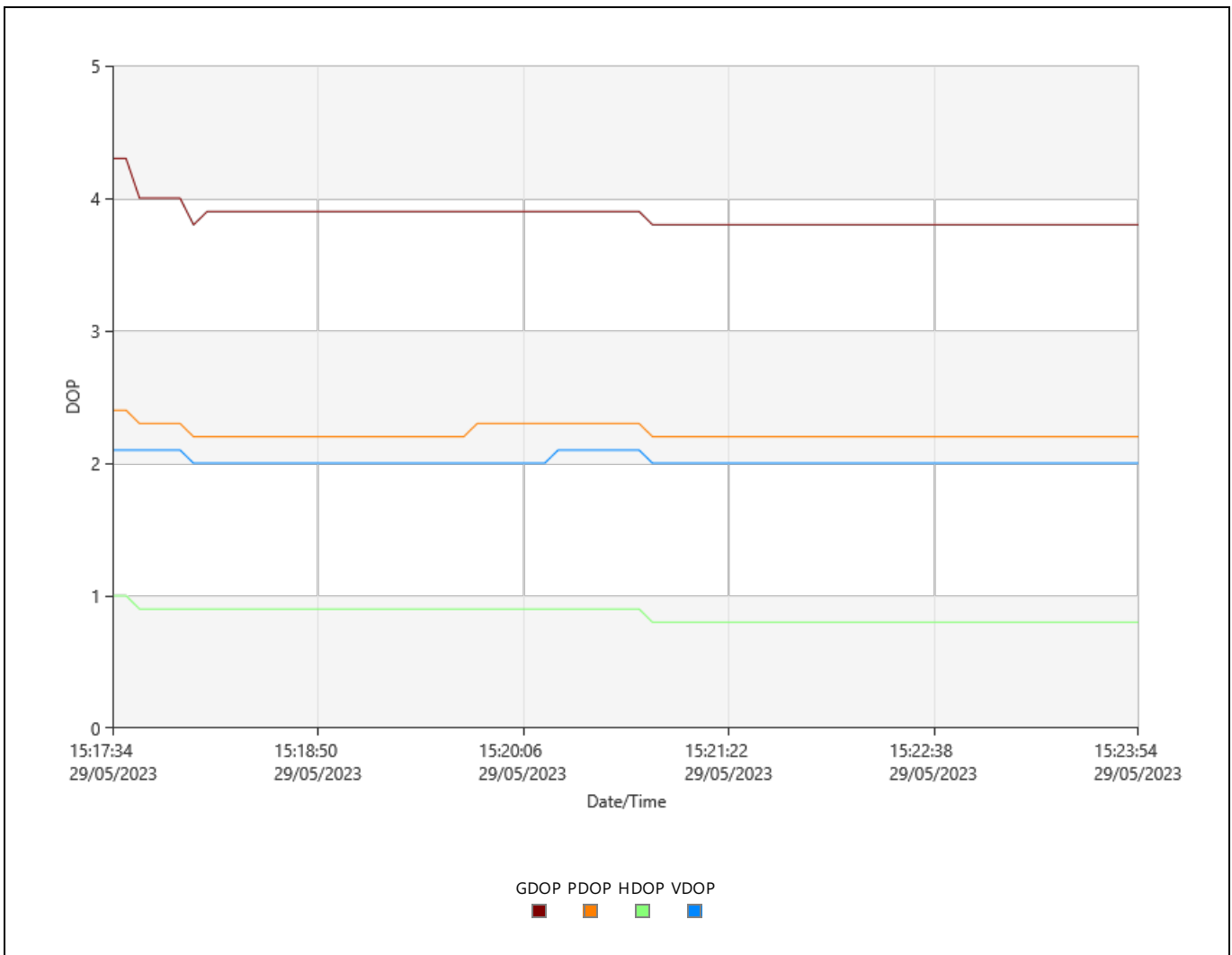
**Azimuth**



**Elevation**



**DOP**





## Observation Statistics

Common Epochs: 385

### GPS Observations

Frequency	Used	Rejected
L1	2,310	0
L2	2,310	0
L5	385	0

### GLONASS Observations

Frequency	Used	Rejected
L1	1,155	0
L2	1,155	0

### Beidou Observations

Frequency	Used	Rejected
B1	770	0

### Galileo Observations

Frequency	Used	Rejected
E1	1,308	7
E5a	1,308	6
E5b	1,308	6
E5ab	1,308	6

## Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	13	9	3	16
Total	13	9	3	20
Independently fixed	48	48	48	47
Possible independently fixed	48	48	48	48

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	99.54	99.54	99.54	99.54
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.46	0.46	0.46
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 15:17:34	29/05/2023 15:23:58	00:06:24

## Residuals

## Tracking Status

### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L5	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
L2	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:17:34	29/05/2023 15:17:40	No Data
	29/05/2023 15:17:40	29/05/2023 15:23:58	Used
E5a	29/05/2023 15:17:34	29/05/2023 15:17:40	No Data
	29/05/2023 15:17:40	29/05/2023 15:23:58	Used
E5b	29/05/2023 15:17:34	29/05/2023 15:17:40	No Data
	29/05/2023 15:17:40	29/05/2023 15:23:58	Used
E5ab	29/05/2023 15:17:34	29/05/2023 15:17:40	No Data
	29/05/2023 15:17:40	29/05/2023 15:23:58	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:17:34	29/05/2023 15:18:03	No Data
	29/05/2023 15:18:03	29/05/2023 15:18:04	Rejected
	29/05/2023 15:18:04	29/05/2023 15:23:58	Used
E5a	29/05/2023 15:17:34	29/05/2023 15:18:04	No Data
	29/05/2023 15:18:04	29/05/2023 15:23:58	Used
E5b	29/05/2023 15:17:34	29/05/2023 15:18:04	No Data
	29/05/2023 15:18:04	29/05/2023 15:23:58	Used
E5ab	29/05/2023 15:17:34	29/05/2023 15:18:04	No Data
	29/05/2023 15:18:04	29/05/2023 15:23:58	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
E5a	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
E5b	29/05/2023 15:17:34	29/05/2023 15:23:58	Used
E5ab	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:17:34	29/05/2023 15:17:40	Rejected
	29/05/2023 15:17:40	29/05/2023 15:20:50	No Data
	29/05/2023 15:20:50	29/05/2023 15:23:58	Used
E5a	29/05/2023 15:17:34	29/05/2023 15:17:40	Rejected
	29/05/2023 15:17:40	29/05/2023 15:20:50	No Data
	29/05/2023 15:20:50	29/05/2023 15:23:58	Used
E5b	29/05/2023 15:17:34	29/05/2023 15:17:40	Rejected
	29/05/2023 15:17:40	29/05/2023 15:20:50	No Data
	29/05/2023 15:20:50	29/05/2023 15:23:58	Used
E5ab	29/05/2023 15:17:34	29/05/2023 15:17:40	Rejected
	29/05/2023 15:17:40	29/05/2023 15:20:50	No Data
	29/05/2023 15:20:50	29/05/2023 15:23:58	Used

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:17:34	29/05/2023 15:23:58	Used

### Cycle Slips

Slip Count: 0

### Processing Messages

#### Warning

Missing orbits for satellite R22.  
Missing orbits for satellite R23.  
Missing orbits for satellite R06.  
Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-13E

### Processing Parameters (29/05/2023 15:34:35 - 29/05/2023 15:40:23)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

#### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

#### General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

#### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

### Results Baseline: MOQ01058 - PAF-CU2-13E

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#### Acquisition

Start Time - End Time: 29/05/2023 15:34:35 - 29/05/2023 15:40:23  
Duration: 00:05:48

#### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-13E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m

Height Reading: 1.454 m 2.000 m  
 Antenna Height: 1.454 m 2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-13E	Reference - MOQ01058	Rover - PAF-CU2-13E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 29.81732" S	Easting:	318,107.441 m 318,519.916 m
WGS84 Longitude:	-	70° 42' 18.41034" W	Northing:	8,117,307.121 m 8,115,049.627 m
WGS84 Ellip. Height:	-	3,190.759 m	Ortho. Height:	3,897.429 m 3,149.385 m
WGS84 Cartesian X:	-	2,016,579.261 m		
WGS84 Cartesian Y:	-	-5,760,094.527 m		
WGS84 Cartesian Z:	-	-1,858,172.392 m		

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 01' 13.54831"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 13.28010"	SD ΔLongitude:	0.000 m
ΔHeight:	-748.152 m	SD ΔHeight:	0.000 m
ΔX:	-84.371 m	SD ΔX:	0.000 m
ΔY:	1,430.401 m	SD ΔY:	0.000 m
ΔZ:	-1,943.917 m	SD ΔZ:	0.000 m
Slope Dist.:	2,414.949 m	SD Slope Dist.:	0.000 m
M0:	0.388 m	CQ 1D:	0.000 m
Q11:	0.00000013	CQ 2D:	0.000 m
Q12:	-0.00000018	CQ 3D:	0.000 m
Q22:	0.00000055		
Q13:	-0.00000006		
Q23:	0.00000019		
Q33:	0.00000017		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.4 - 2.9	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1.4 - 1.7	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.2 - 1.5	Galileo SVs:	3/3
				QZSS SVs:	-
Ephemeris Type:					
GPS	Precise				
GLONASS	Precise				
Beidou	Precise				
Galileo	Precise				

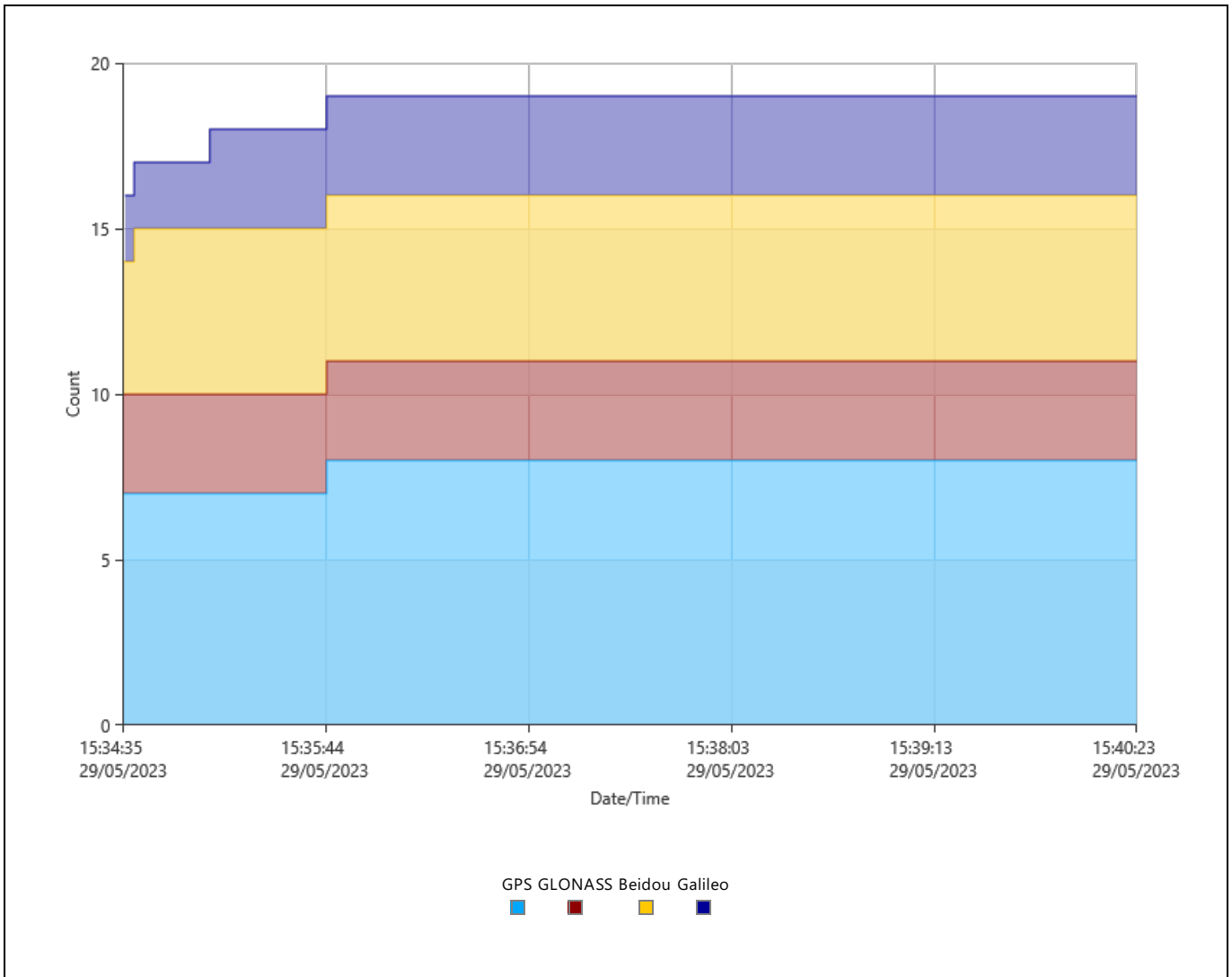
**Processing Info (29/05/2023 15:34:35 - 29/05/2023 15:40:23)**

Processed Date/Time: 09/06/2023 17:54:21

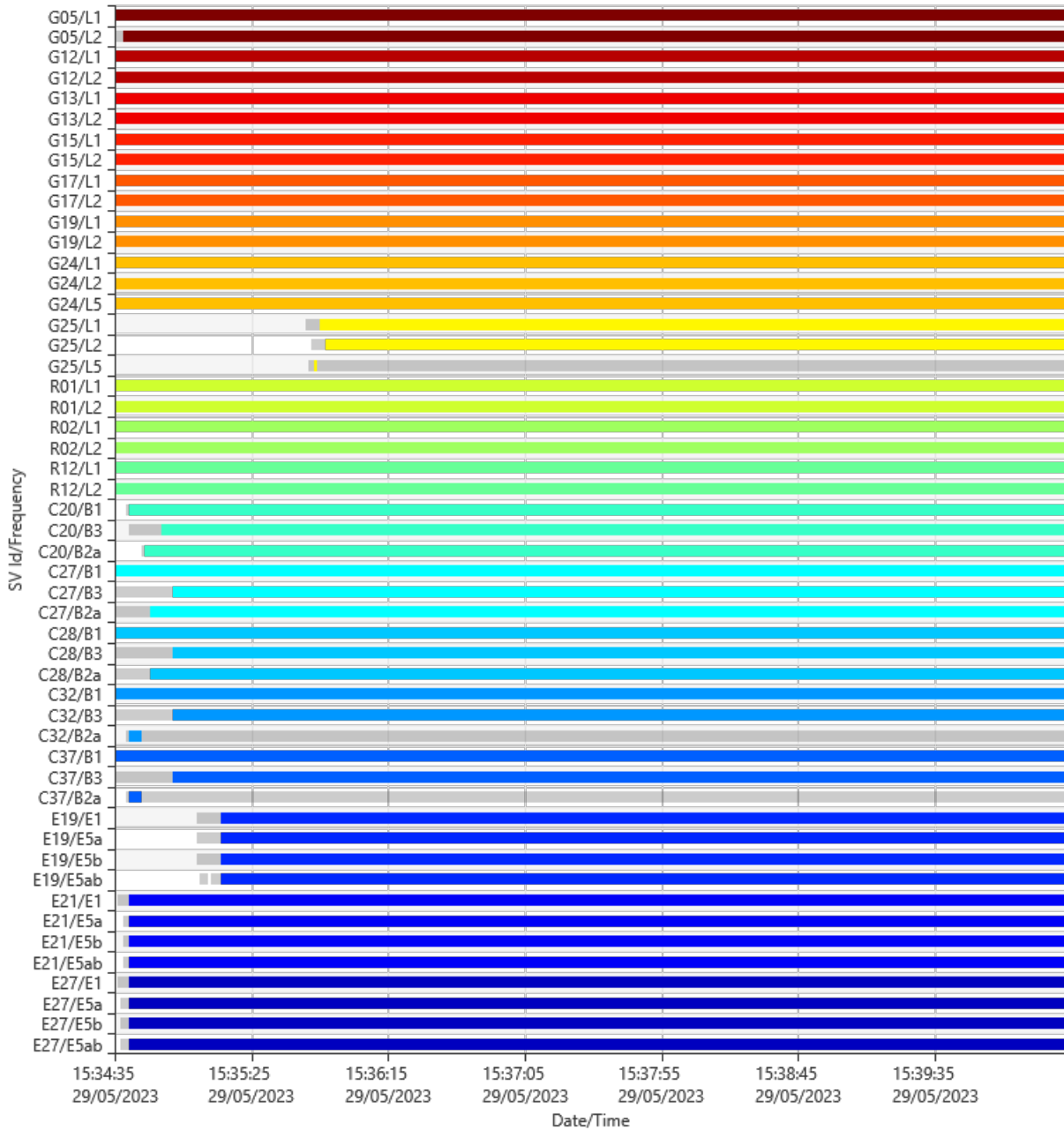
**Satellites**

Satellite System	Used	Manually Disabled
GPS	G05 G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R01 R02 R12	-
Beidou	C20 C27 C28 C32 C37	-
Galileo	E19 E21 E27	-

### SVs Tracked

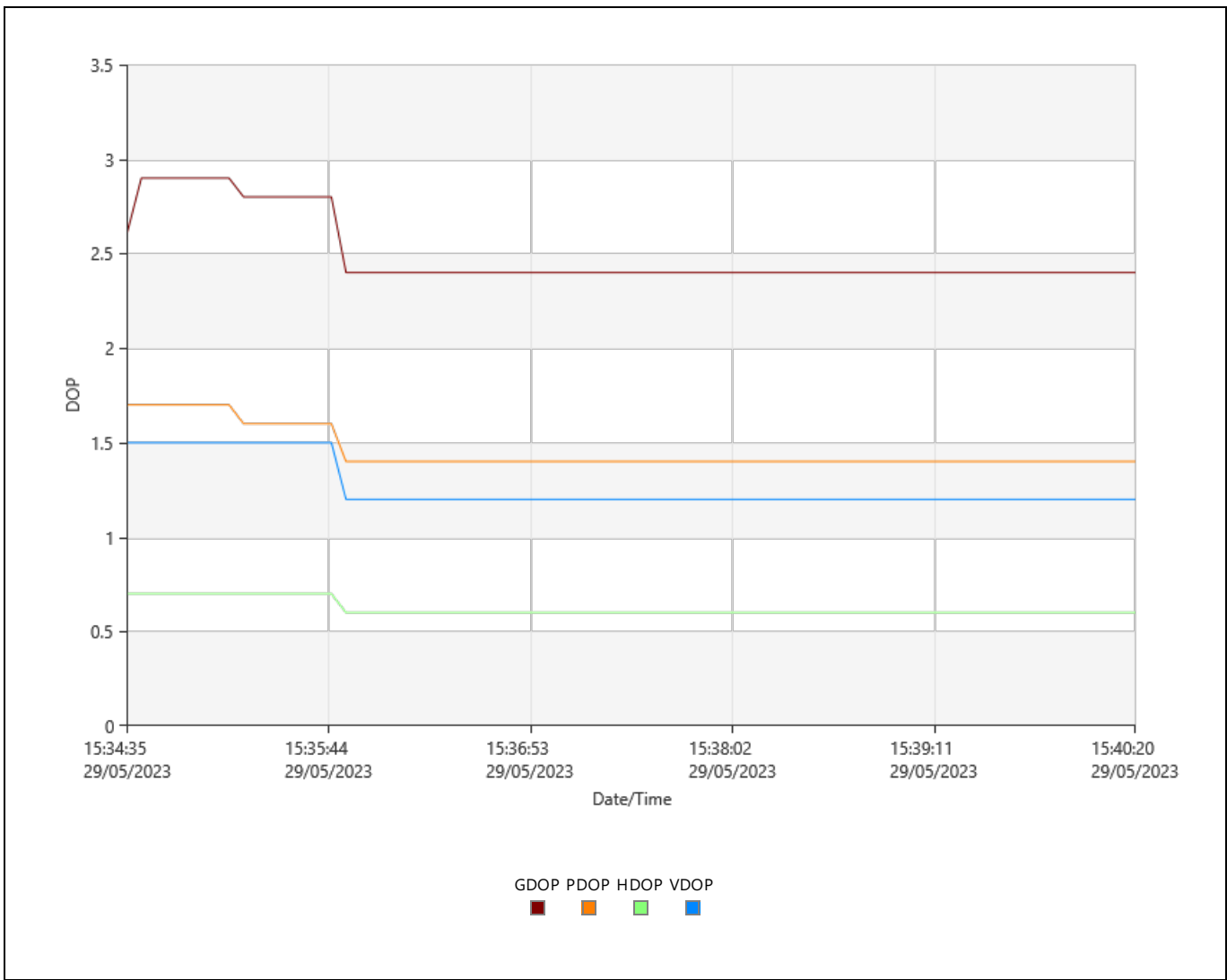


### Signals Tracked



Azimuth





### Observation Statistics

Common Epochs: 349

#### GPS Observations

Frequency	Used	Rejected
L1	2,717	5
L2	2,712	8
L5	350	277

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,047	0
L2	1,047	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,740	1
B3	1,644	96
B2a	1,020	707

#### Galileo Observations

Frequency	Used	Rejected
E1	998	17
E5a	998	14
E5b	998	14
E5ab	998	12

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	18	6	15	12
Total	19	6	16	24
Independently fixed	43	43	43	42
Possible independently fixed	43	43	43	43

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	99.68	100.00	100.00	100.00	96.92	98.49	98.42	98.81	98.81	98.81
Not fixed	0.00	0.00	0.32	0.00	0.00	0.00	0.47	0.00	1.58	1.19	1.19	1.19
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	2.60	1.51	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 15:34:35	29/05/2023 15:40:23	00:05:48



## Residuals

### Tracking Status

G05

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:34:37	No Data
	29/05/2023 15:34:35	29/05/2023 15:34:37	Rejected
	29/05/2023 15:34:37	29/05/2023 15:34:38	Rejected
	29/05/2023 15:34:38	29/05/2023 15:40:23	Used
	29/05/2023 15:34:37	29/05/2023 15:40:23	No Data

G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L5	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:35:45	No Data
	29/05/2023 15:35:45	29/05/2023 15:35:50	Rejected
	29/05/2023 15:35:50	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:35:47	No Data
	29/05/2023 15:34:35	29/05/2023 15:35:51	No Data
	29/05/2023 15:35:47	29/05/2023 15:35:51	Rejected
	29/05/2023 15:35:51	29/05/2023 15:35:52	Rejected
	29/05/2023 15:35:52	29/05/2023 15:40:23	Used
	29/05/2023 15:35:51	29/05/2023 15:40:23	No Data
L5	29/05/2023 15:34:35	29/05/2023 15:35:46	No Data
	29/05/2023 15:35:46	29/05/2023 15:35:48	Rejected
	29/05/2023 15:35:48	29/05/2023 15:35:49	Used
	29/05/2023 15:35:49	29/05/2023 15:40:23	Rejected

R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

## R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

## R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
L2	29/05/2023 15:34:35	29/05/2023 15:40:23	Used

## E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:34:35	29/05/2023 15:35:05	No Data
	29/05/2023 15:35:05	29/05/2023 15:35:14	Rejected
	29/05/2023 15:35:14	29/05/2023 15:40:23	Used
E5a	29/05/2023 15:34:35	29/05/2023 15:35:05	No Data
	29/05/2023 15:35:05	29/05/2023 15:35:14	Rejected
	29/05/2023 15:35:14	29/05/2023 15:40:23	Used
E5b	29/05/2023 15:34:35	29/05/2023 15:35:05	No Data
	29/05/2023 15:35:05	29/05/2023 15:35:14	Rejected
	29/05/2023 15:35:14	29/05/2023 15:40:23	Used
E5ab	29/05/2023 15:34:35	29/05/2023 15:35:06	No Data
	29/05/2023 15:35:06	29/05/2023 15:35:09	Rejected
	29/05/2023 15:35:09	29/05/2023 15:35:10	No Data
	29/05/2023 15:35:10	29/05/2023 15:35:14	Rejected
	29/05/2023 15:35:14	29/05/2023 15:40:23	Used

## E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:34:35	29/05/2023 15:34:36	No Data
	29/05/2023 15:34:36	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5a	29/05/2023 15:34:35	29/05/2023 15:34:38	No Data
	29/05/2023 15:34:38	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5b	29/05/2023 15:34:35	29/05/2023 15:34:38	No Data
	29/05/2023 15:34:38	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5ab	29/05/2023 15:34:35	29/05/2023 15:34:38	No Data
	29/05/2023 15:34:38	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used

## E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:34:35	29/05/2023 15:34:36	No Data
	29/05/2023 15:34:36	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5a	29/05/2023 15:34:35	29/05/2023 15:34:37	No Data
	29/05/2023 15:34:37	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5b	29/05/2023 15:34:35	29/05/2023 15:34:37	No Data
	29/05/2023 15:34:37	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
E5ab	29/05/2023 15:34:35	29/05/2023 15:34:37	No Data
	29/05/2023 15:34:37	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used

## C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:34:35	29/05/2023 15:34:39	No Data
	29/05/2023 15:34:39	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:40:23	Used
B3	29/05/2023 15:34:35	29/05/2023 15:34:40	No Data
	29/05/2023 15:34:40	29/05/2023 15:34:52	Rejected
	29/05/2023 15:34:52	29/05/2023 15:40:23	Used
B2a	29/05/2023 15:34:35	29/05/2023 15:34:45	No Data
	29/05/2023 15:34:45	29/05/2023 15:34:46	Rejected
	29/05/2023 15:34:46	29/05/2023 15:40:23	Used

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
B3	29/05/2023 15:34:35	29/05/2023 15:34:56	Rejected
	29/05/2023 15:34:56	29/05/2023 15:40:23	Used
B2a	29/05/2023 15:34:35	29/05/2023 15:34:48	Rejected
	29/05/2023 15:34:48	29/05/2023 15:40:23	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
B3	29/05/2023 15:34:35	29/05/2023 15:34:56	Rejected
	29/05/2023 15:34:56	29/05/2023 15:40:23	Used
B2a	29/05/2023 15:34:35	29/05/2023 15:34:48	Rejected
	29/05/2023 15:34:48	29/05/2023 15:40:23	Used

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
B3	29/05/2023 15:34:35	29/05/2023 15:34:56	Rejected
	29/05/2023 15:34:56	29/05/2023 15:40:23	Used
B2a	29/05/2023 15:34:35	29/05/2023 15:34:39	No Data
	29/05/2023 15:34:39	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:34:45	Used
	29/05/2023 15:34:45	29/05/2023 15:40:23	Rejected

C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:34:35	29/05/2023 15:40:23	Used
B3	29/05/2023 15:34:35	29/05/2023 15:34:56	Rejected
	29/05/2023 15:34:56	29/05/2023 15:40:23	Used
B2a	29/05/2023 15:34:35	29/05/2023 15:34:39	No Data
	29/05/2023 15:34:39	29/05/2023 15:34:40	Rejected
	29/05/2023 15:34:40	29/05/2023 15:34:45	Used
	29/05/2023 15:34:45	29/05/2023 15:40:23	Rejected

## Cycle Slips

Slip Count: 13

SV	Frequency	Epoch	Slip Value	Flag
G25	L5	29/05/2023 15:35:48	-	RIA
E19	E1	29/05/2023 15:35:14	-	RIA
	E5a	29/05/2023 15:35:14	-	RIA
	E5b	29/05/2023 15:35:14	-	RIA
	E5ab	29/05/2023 15:35:14	-	RIA
E21	E1	29/05/2023 15:34:40	-	RIA
	E5a	29/05/2023 15:34:40	-	RIA
	E5b	29/05/2023 15:34:40	-	RIA
	E5ab	29/05/2023 15:34:40	-	RIA
E27	E1	29/05/2023 15:34:40	-	RIA
	E5a	29/05/2023 15:34:40	-	RIA
	E5b	29/05/2023 15:34:40	-	RIA
	E5ab	29/05/2023 15:34:40	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-15E

## Processing Parameters (29/05/2023 15:53:58 - 29/05/2023 15:59:09)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-15E

### Acquisition

Start Time - End Time:	29/05/2023 15:53:58 - 29/05/2023 15:59:09
Duration:	00:05:11

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-15E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-15E	Reference - MOQ01058	Rover - PAF-CU2-15E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 17.50981" S	Easting: 318,107.441 m	318,355.553 m
WGS84 Longitude:	-	70° 42' 23.85669" W	Northing: 8,117,307.121 m	8,115,426.563 m

WGS84 Ellip. Height:	-	3,220.791 m	Ortho. Height:	3,897.429 m	3,179.406 m
WGS84 Cartesian X:	-	2,016,473.306 m			
WGS84 Cartesian Y:	-	-5,760,279.571 m			
WGS84 Cartesian Z:	-	-1,857,819.267 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 01.24080"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 07.83375"	SD ΔLongitude:	0.000 m
ΔHeight:	-718.120 m	SD ΔHeight:	0.001 m
ΔX:	-190.327 m	SD ΔX:	0.000 m
ΔY:	1,245.357 m	SD ΔY:	0.000 m
ΔZ:	-1,590.792 m	SD ΔZ:	0.000 m
Slope Dist.:	2,029.226 m	SD Slope Dist.:	0.000 m

M0:	0.536 m	CQ 1D:	0.001 m
Q11:	0.00000019	CQ 2D:	0.000 m
Q12:	-0.00000028	CQ 3D:	0.001 m
Q22:	0.00000084		
Q13:	-0.00000012		
Q23:	0.00000030		
Q33:	0.00000020		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	2.3 - 3.0	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	1.5 - 1.7	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.6 - 0.7	Beidou SVs:	5/5
		VDOP:	1.4 - 1.5	Galileo SVs:	3/3
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

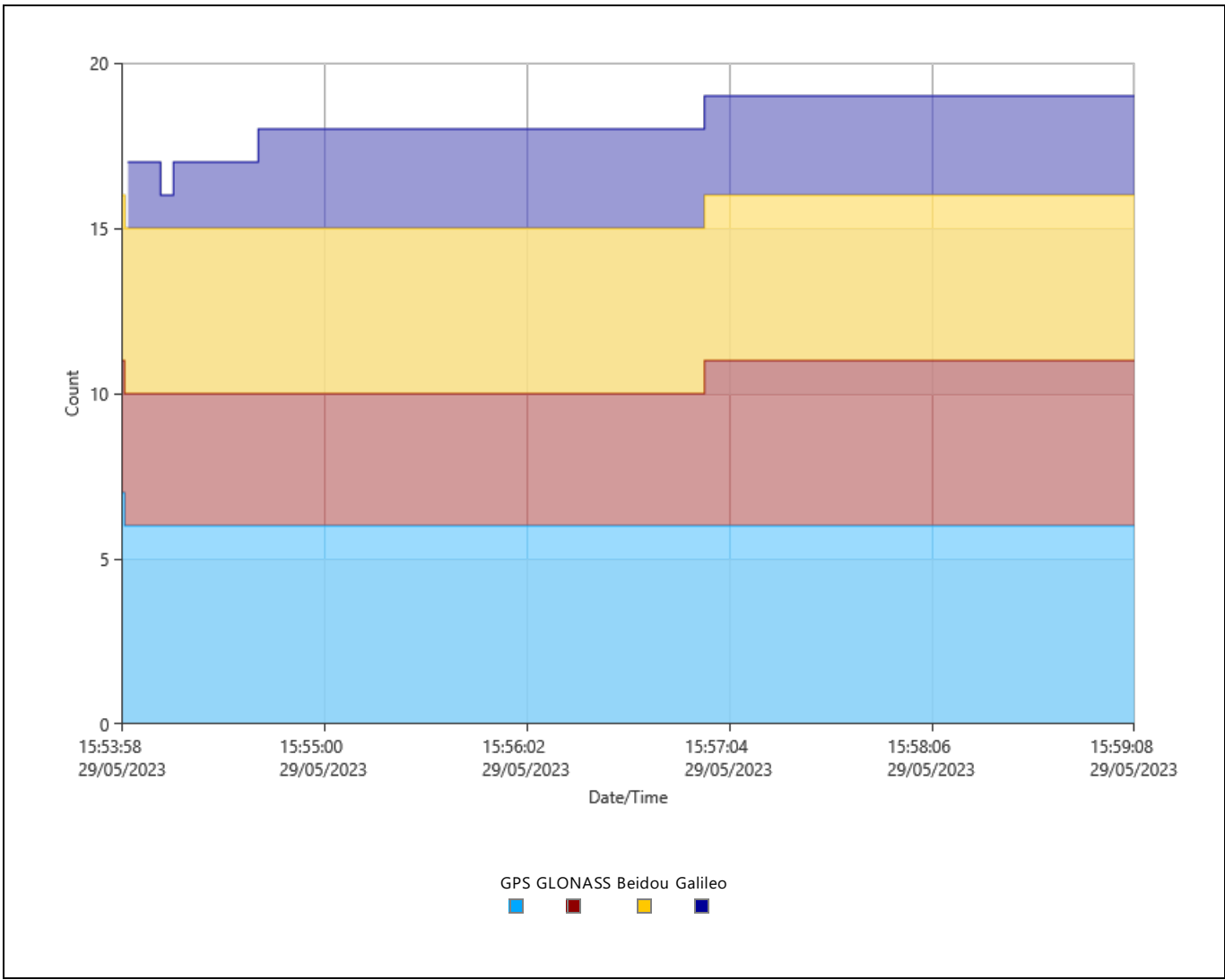
### Processing Info (29/05/2023 15:53:58 - 29/05/2023 15:59:09)

Processed Date/Time: 09/06/2023 17:54:21

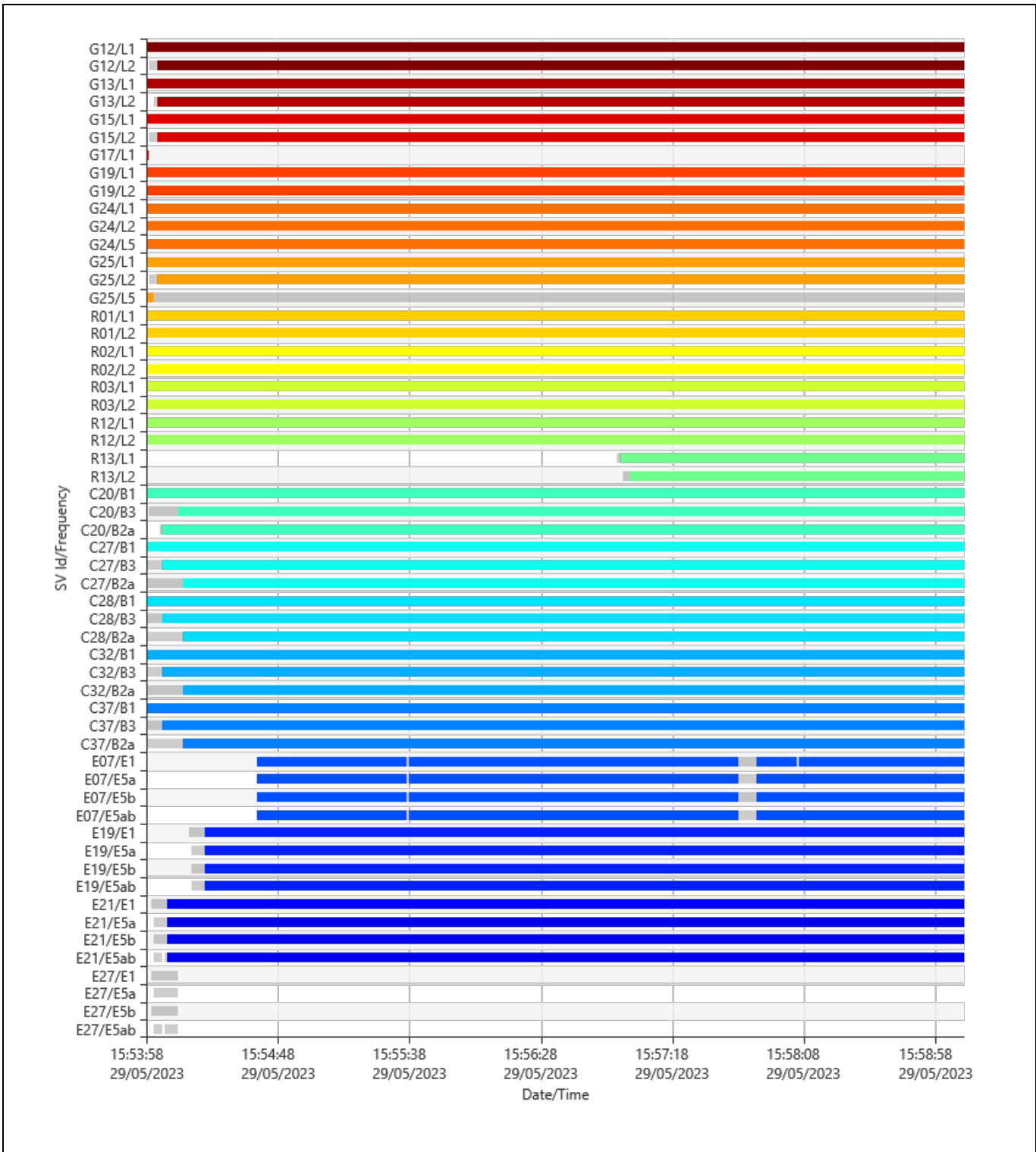
### Satellites

Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G17 G19 G24 G25	-
GLONASS	R01 R02 R03 R12 R13	-
Beidou	C20 C27 C28 C32 C37	-
Galileo	E07 E19 E21	-

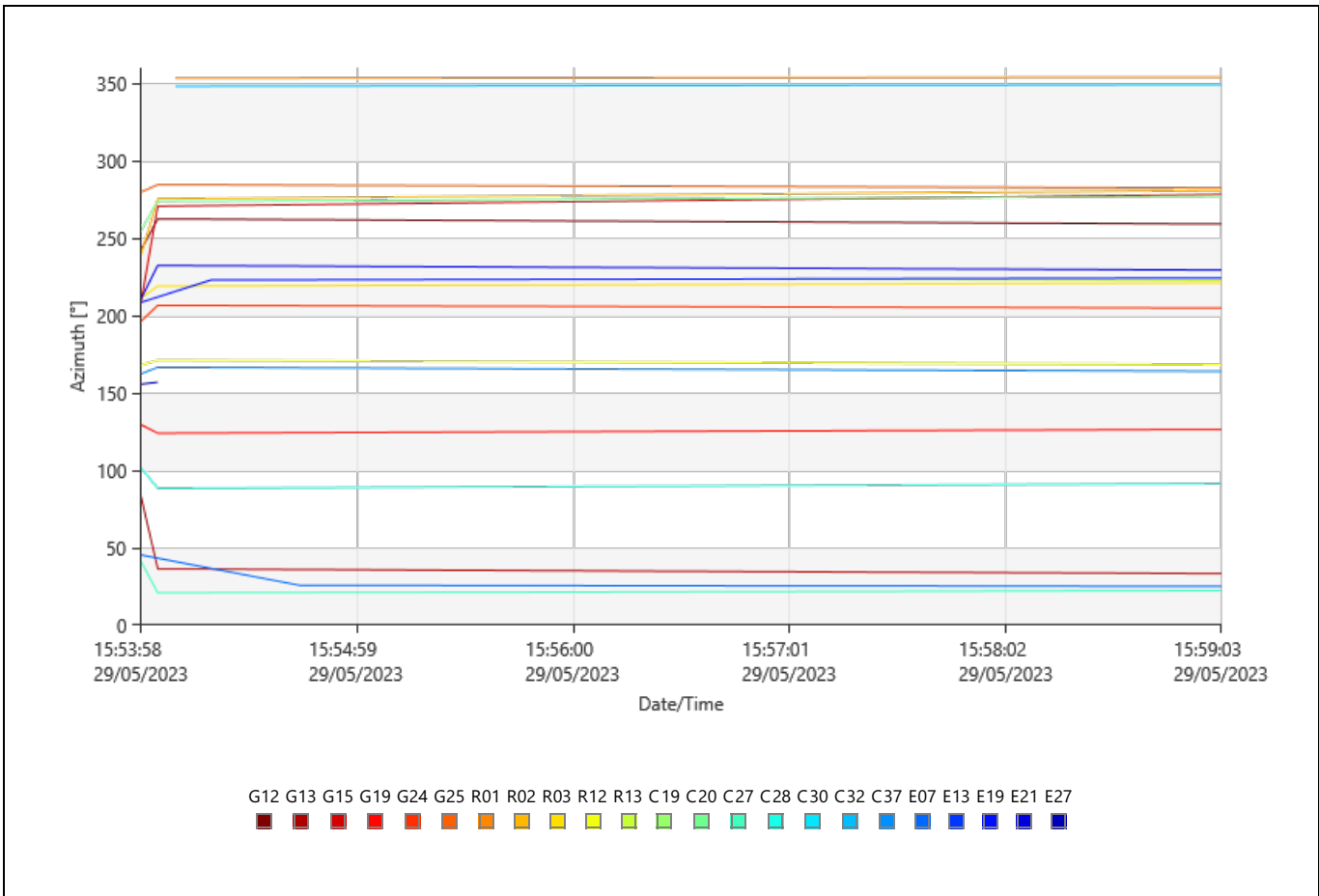
### SVs Tracked



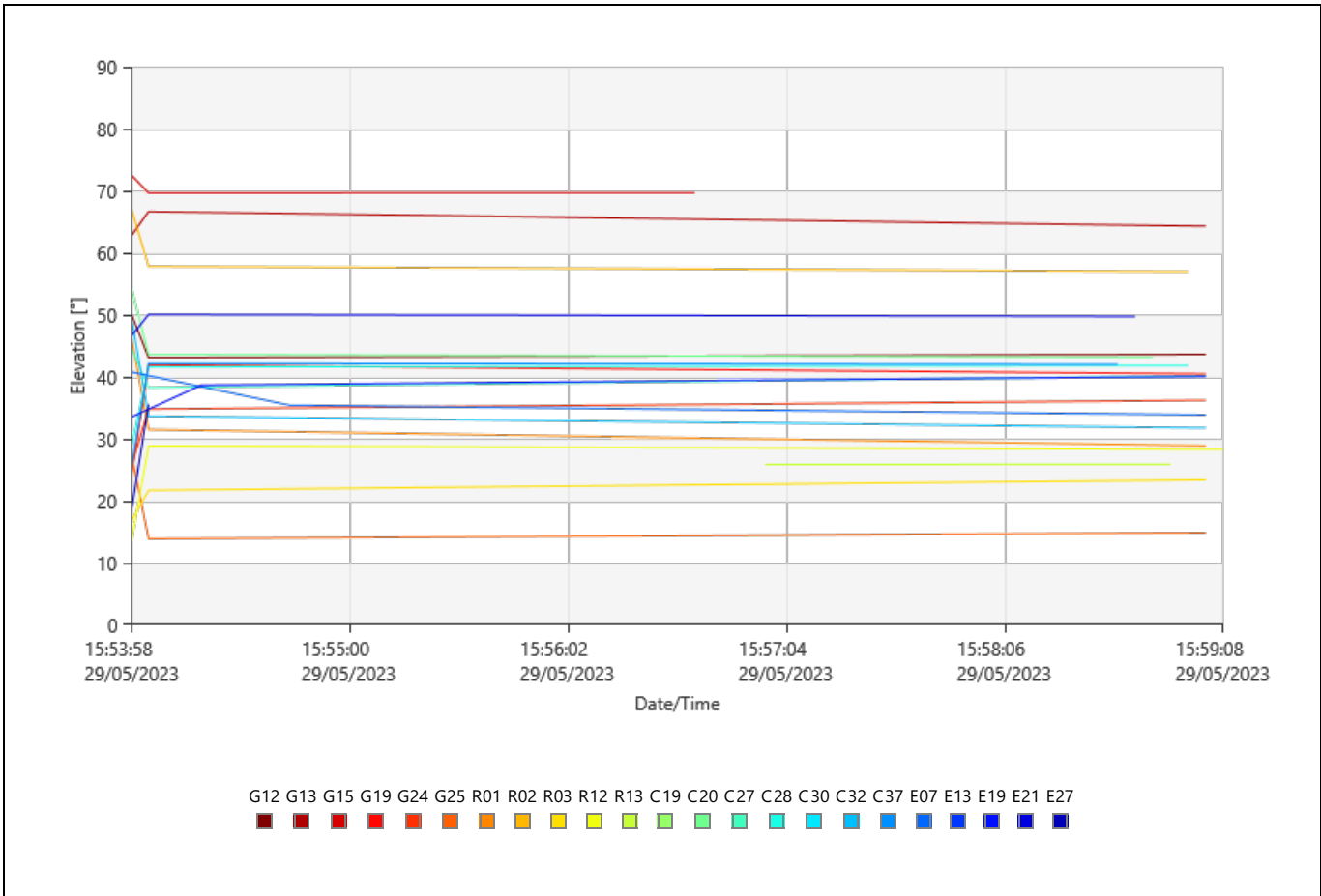
**Signals Tracked**



**Azimuth**

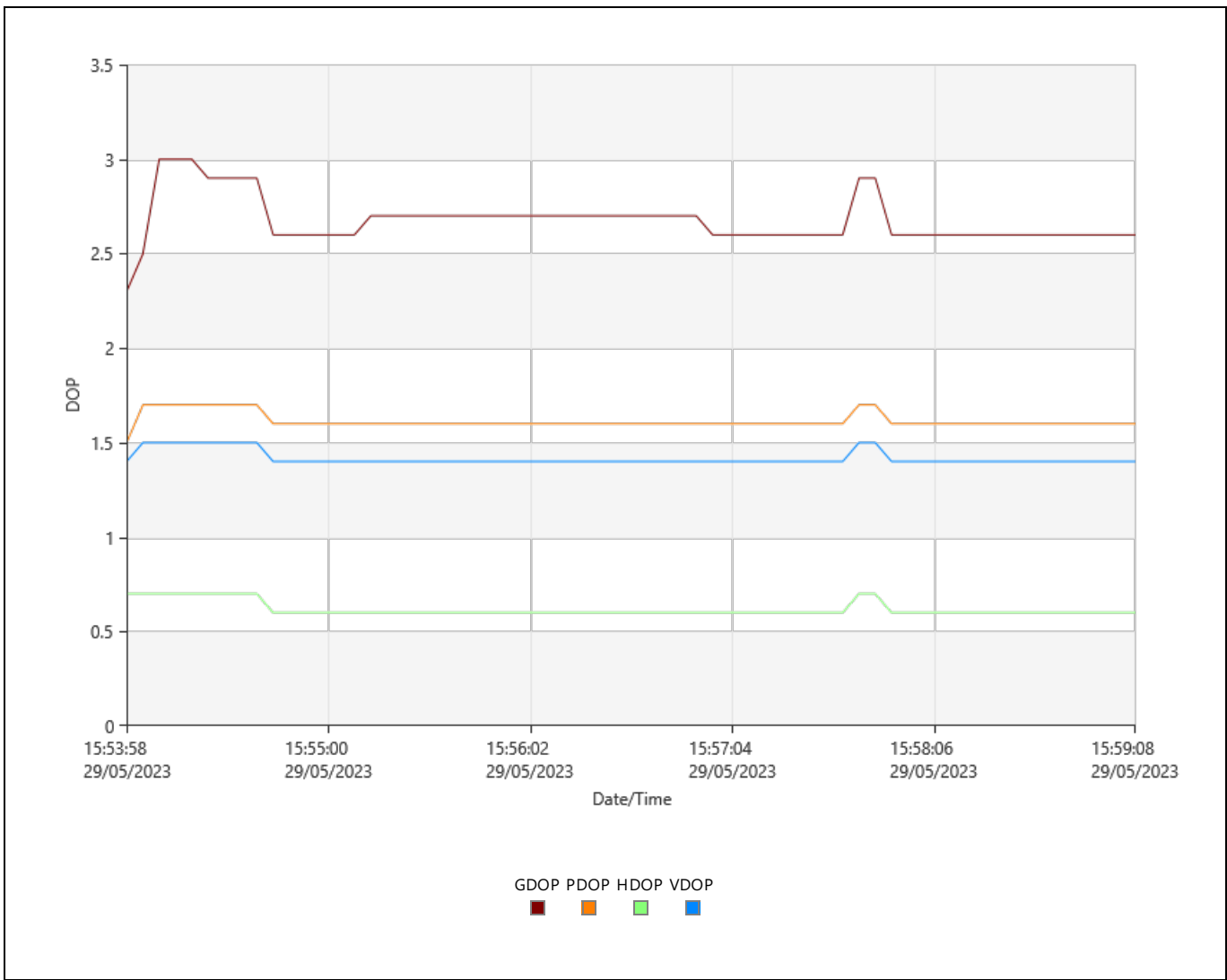


**Elevation**



**DOP**





### Observation Statistics

Common Epochs: 312

#### GPS Observations

Frequency	Used	Rejected
L1	1,873	0
L2	1,856	10
L5	315	309

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,380	1
L2	1,376	3

#### Beidou Observations

Frequency	Used	Rejected
B1	1,560	0
B3	1,524	35
B2a	1,498	57

#### Galileo Observations

Frequency	Used	Rejected
E1	854	32
E5a	856	27
E5b	856	28
E5ab	856	25

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	16	10	15	17
Total	16	10	15	34
Independently fixed	39	39	39	37
Possible independently fixed	39	39	39	39

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	96.38	96.83	97.49	97.27	97.94
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	2.51	2.73	2.06
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.62	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 15:53:58	29/05/2023 15:59:09	00:05:11

## Residuals

### Tracking Status

G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:53:59</b>	<b>No Data</b>
	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:01</b>	<b>No Data</b>
	<b>29/05/2023 15:53:59</b>	<b>29/05/2023 15:54:01</b>	<b>Rejected</b>
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:54:02</b>	<b>Rejected</b>
	29/05/2023 15:54:02	29/05/2023 15:59:09	Used
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:59:09</b>	<b>No Data</b>

G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:01</b>	<b>No Data</b>
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:54:02</b>	<b>Rejected</b>
	29/05/2023 15:54:02	29/05/2023 15:59:09	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:53:59</b>	<b>No Data</b>
	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:01</b>	<b>No Data</b>
	<b>29/05/2023 15:53:59</b>	<b>29/05/2023 15:54:01</b>	<b>Rejected</b>
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:54:02</b>	<b>Rejected</b>
	29/05/2023 15:54:02	29/05/2023 15:59:09	Used
		<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:59:09</b>

G17

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:53:59	Used
	<b>29/05/2023 15:53:59</b>	<b>29/05/2023 15:59:09</b>	<b>No Data</b>

G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L5	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:53:59</b>	<b>No Data</b>
	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:01</b>	<b>No Data</b>
	<b>29/05/2023 15:53:59</b>	<b>29/05/2023 15:54:01</b>	<b>Rejected</b>
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:54:02</b>	<b>Rejected</b>
	29/05/2023 15:54:02	29/05/2023 15:59:09	Used
		<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:59:09</b>
L5	29/05/2023 15:53:58	29/05/2023 15:54:01	Used
	<b>29/05/2023 15:54:01</b>	<b>29/05/2023 15:59:09</b>	<b>Rejected</b>

R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:59:09	Used

R13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:53:58	29/05/2023 15:56:57	No Data
	29/05/2023 15:56:57	29/05/2023 15:56:58	Rejected
	29/05/2023 15:56:58	29/05/2023 15:59:09	Used
L2	29/05/2023 15:53:58	29/05/2023 15:56:59	No Data
	29/05/2023 15:56:59	29/05/2023 15:57:02	Rejected
	29/05/2023 15:57:02	29/05/2023 15:59:09	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:53:58	29/05/2023 15:54:40	No Data
	29/05/2023 15:54:40	29/05/2023 15:55:37	Used
	29/05/2023 15:55:37	29/05/2023 15:55:38	Rejected
	29/05/2023 15:55:38	29/05/2023 15:57:43	Used
	29/05/2023 15:57:43	29/05/2023 15:57:50	Rejected
	29/05/2023 15:57:50	29/05/2023 15:58:05	Used
	29/05/2023 15:58:05	29/05/2023 15:58:06	Rejected
	29/05/2023 15:58:06	29/05/2023 15:59:09	Used
E5a	29/05/2023 15:59:09	29/05/2023 15:59:09	Rejected
	29/05/2023 15:53:58	29/05/2023 15:54:40	No Data
	29/05/2023 15:54:40	29/05/2023 15:55:37	Used
	29/05/2023 15:55:37	29/05/2023 15:55:38	Rejected
	29/05/2023 15:55:38	29/05/2023 15:57:43	Used
E5b	29/05/2023 15:57:43	29/05/2023 15:57:50	Rejected
	29/05/2023 15:57:50	29/05/2023 15:59:09	Used
	29/05/2023 15:53:58	29/05/2023 15:54:40	No Data
	29/05/2023 15:54:40	29/05/2023 15:55:37	Used
	29/05/2023 15:55:37	29/05/2023 15:55:38	Rejected
E5ab	29/05/2023 15:55:38	29/05/2023 15:57:43	Used
	29/05/2023 15:57:43	29/05/2023 15:57:50	Rejected
	29/05/2023 15:57:50	29/05/2023 15:59:09	Used
	29/05/2023 15:53:58	29/05/2023 15:54:40	No Data
	29/05/2023 15:54:40	29/05/2023 15:55:37	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:53:58	29/05/2023 15:54:14	No Data
	29/05/2023 15:54:14	29/05/2023 15:54:20	Rejected
	29/05/2023 15:54:20	29/05/2023 15:59:09	Used
E5a	29/05/2023 15:53:58	29/05/2023 15:54:15	No Data
	29/05/2023 15:54:15	29/05/2023 15:54:20	Rejected
	29/05/2023 15:54:20	29/05/2023 15:59:09	Used
E5b	29/05/2023 15:53:58	29/05/2023 15:54:15	No Data
	29/05/2023 15:54:15	29/05/2023 15:54:20	Rejected
	29/05/2023 15:54:20	29/05/2023 15:59:09	Used
E5ab	29/05/2023 15:53:58	29/05/2023 15:54:15	No Data
	29/05/2023 15:54:15	29/05/2023 15:54:20	Rejected
	29/05/2023 15:54:20	29/05/2023 15:59:09	Used

E21

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Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:53:58	29/05/2023 15:54:00	No Data
	29/05/2023 15:54:00	29/05/2023 15:54:06	Rejected
	29/05/2023 15:54:06	29/05/2023 15:59:09	Used
E5a	29/05/2023 15:53:58	29/05/2023 15:54:01	No Data
	29/05/2023 15:54:01	29/05/2023 15:54:06	Rejected
	29/05/2023 15:54:06	29/05/2023 15:59:09	Used
E5b	29/05/2023 15:53:58	29/05/2023 15:54:01	No Data
	29/05/2023 15:54:01	29/05/2023 15:54:06	Rejected
	29/05/2023 15:54:06	29/05/2023 15:59:09	Used
E5ab	29/05/2023 15:53:58	29/05/2023 15:54:01	No Data
	29/05/2023 15:54:01	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:54:05	No Data
	29/05/2023 15:54:05	29/05/2023 15:54:06	Rejected
	29/05/2023 15:54:06	29/05/2023 15:59:09	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:53:58	29/05/2023 15:54:00	No Data
	29/05/2023 15:54:00	29/05/2023 15:54:10	Rejected
	29/05/2023 15:54:10	29/05/2023 15:59:09	No Data
E5a	29/05/2023 15:53:58	29/05/2023 15:54:01	No Data
	29/05/2023 15:54:01	29/05/2023 15:54:10	Rejected
	29/05/2023 15:54:10	29/05/2023 15:59:09	No Data
E5b	29/05/2023 15:53:58	29/05/2023 15:54:00	No Data
	29/05/2023 15:54:00	29/05/2023 15:54:10	Rejected
	29/05/2023 15:54:10	29/05/2023 15:59:09	No Data
E5ab	29/05/2023 15:53:58	29/05/2023 15:54:01	No Data
	29/05/2023 15:54:01	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:54:05	No Data
	29/05/2023 15:54:05	29/05/2023 15:54:10	Rejected
	29/05/2023 15:54:10	29/05/2023 15:59:09	No Data

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
B3	29/05/2023 15:53:58	29/05/2023 15:53:59	No Data
	29/05/2023 15:53:59	29/05/2023 15:54:10	Rejected
	29/05/2023 15:54:10	29/05/2023 15:59:09	Used
B2a	29/05/2023 15:53:58	29/05/2023 15:54:03	No Data
	29/05/2023 15:54:03	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:59:09	Used

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
B3	29/05/2023 15:53:58	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:59:09	Used
B2a	29/05/2023 15:53:58	29/05/2023 15:54:12	Rejected
	29/05/2023 15:54:12	29/05/2023 15:59:09	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
B3	29/05/2023 15:53:58	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:59:09	Used
B2a	29/05/2023 15:53:58	29/05/2023 15:54:12	Rejected
	29/05/2023 15:54:12	29/05/2023 15:59:09	Used

C32

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
B3	29/05/2023 15:53:58	29/05/2023 15:54:04	Rejected
	29/05/2023 15:54:04	29/05/2023 15:59:09	Used
B2a	29/05/2023 15:53:58	29/05/2023 15:54:12	Rejected
	29/05/2023 15:54:12	29/05/2023 15:59:09	Used

C37

Frequency	From Epoch	To Epoch	Status

<b>B1</b>	29/05/2023 15:53:58	29/05/2023 15:59:09	Used
<b>B3</b>	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:04</b>	<b>Rejected</b>
	29/05/2023 15:54:04	29/05/2023 15:59:09	Used
<b>B2a</b>	<b>29/05/2023 15:53:58</b>	<b>29/05/2023 15:54:12</b>	<b>Rejected</b>
	29/05/2023 15:54:12	29/05/2023 15:59:09	Used

## Cycle Slips

Slip Count: 32

SV	Frequency	Epoch	Slip Value	Flag
E07	E1	29/05/2023 15:55:38	4.0000000000	Flagged
		29/05/2023 15:57:44	-	RIA
		29/05/2023 15:57:46	-	RIA
		29/05/2023 15:57:50	-	RIA
		29/05/2023 15:58:06	-	RIA
		29/05/2023 15:58:44	2.0000000000	Flagged
		29/05/2023 15:59:08	1.0000000000	Flagged
	E5a	29/05/2023 15:55:38	-	Flagged
		29/05/2023 15:57:44	-	RIA
		29/05/2023 15:57:50	-	RIA
		29/05/2023 15:58:44	-	Flagged
		29/05/2023 15:59:08	-	Flagged
	E5b	29/05/2023 15:55:38	-	Flagged
		29/05/2023 15:57:44	-	RIA
		29/05/2023 15:57:50	-	RIA
		29/05/2023 15:58:44	-	Flagged
		29/05/2023 15:59:08	-	Flagged
	E5ab	29/05/2023 15:55:38	-	Flagged
		29/05/2023 15:57:44	-	RIA
		29/05/2023 15:57:50	-	RIA
29/05/2023 15:58:44		-	Flagged	
E19	E1	29/05/2023 15:54:20	-	RIA
	E5a	29/05/2023 15:54:20	-	RIA
	E5b	29/05/2023 15:54:20	-	RIA
	E5ab	29/05/2023 15:54:20	-	RIA
E21	E1	29/05/2023 15:54:06	-	RIA
	E5a	29/05/2023 15:54:06	-	RIA
	E5b	29/05/2023 15:54:06	-	RIA
E27	E1	29/05/2023 15:54:06	-	RIA
	E5a	29/05/2023 15:54:06	-	RIA
	E5b	29/05/2023 15:54:06	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-12A

### Processing Parameters (29/05/2023 15:59:27 - 29/05/2023 16:09:06)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-12A

### Acquisition

Start Time - End Time:	29/05/2023 15:59:27 - 29/05/2023 16:09:06
Duration:	00:09:39

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-12A
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-12A	Reference - MOQ01058	Rover - PAF-CU2-12A	
Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 32.41981" S	Easting:	318,107.441 m	317,782.780 m
WGS84 Longitude:	-	70° 42' 43.36086" W	Northing:	8,117,307.121 m	8,114,963.175 m
WGS84 Ellip. Height:	-	3,160.086 m	Ortho. Height:	3,897.429 m	3,118.785 m
WGS84 Cartesian X:	-	2,015,865.050 m			
WGS84 Cartesian Y:	-	-5,760,288.595 m			
WGS84 Cartesian Z:	-	-1,858,239.932 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 16.15080"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 11.67041"	SD ΔLongitude:	0.000 m
ΔHeight:	-778.825 m	SD ΔHeight:	0.000 m
ΔX:	-798.583 m	SD ΔX:	0.000 m
ΔY:	1,236.333 m	SD ΔY:	0.000 m

$\Delta Z$ :	-2,011.458 m	SD $\Delta Z$ :	0.000 m
Slope Dist.:	2,492.432 m	SD Slope Dist.:	0.000 m
M0:	0.466 m	CQ 1D:	0.000 m
Q11:	0.00000020	CQ 2D:	0.000 m
Q12:	-0.00000029	CQ 3D:	0.000 m
Q22:	0.00000061		
Q13:	-0.00000014		
Q23:	0.00000026		
Q33:	0.00000018		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.6 - 4.5	GPS SVs:	6/6
Solution Optimisation:	None	PDOP:	2.2 - 2.6	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.9	Beidou SVs:	3/3
		VDOP:	2.1 - 2.5	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (29/05/2023 15:59:27 - 29/05/2023 16:09:06)

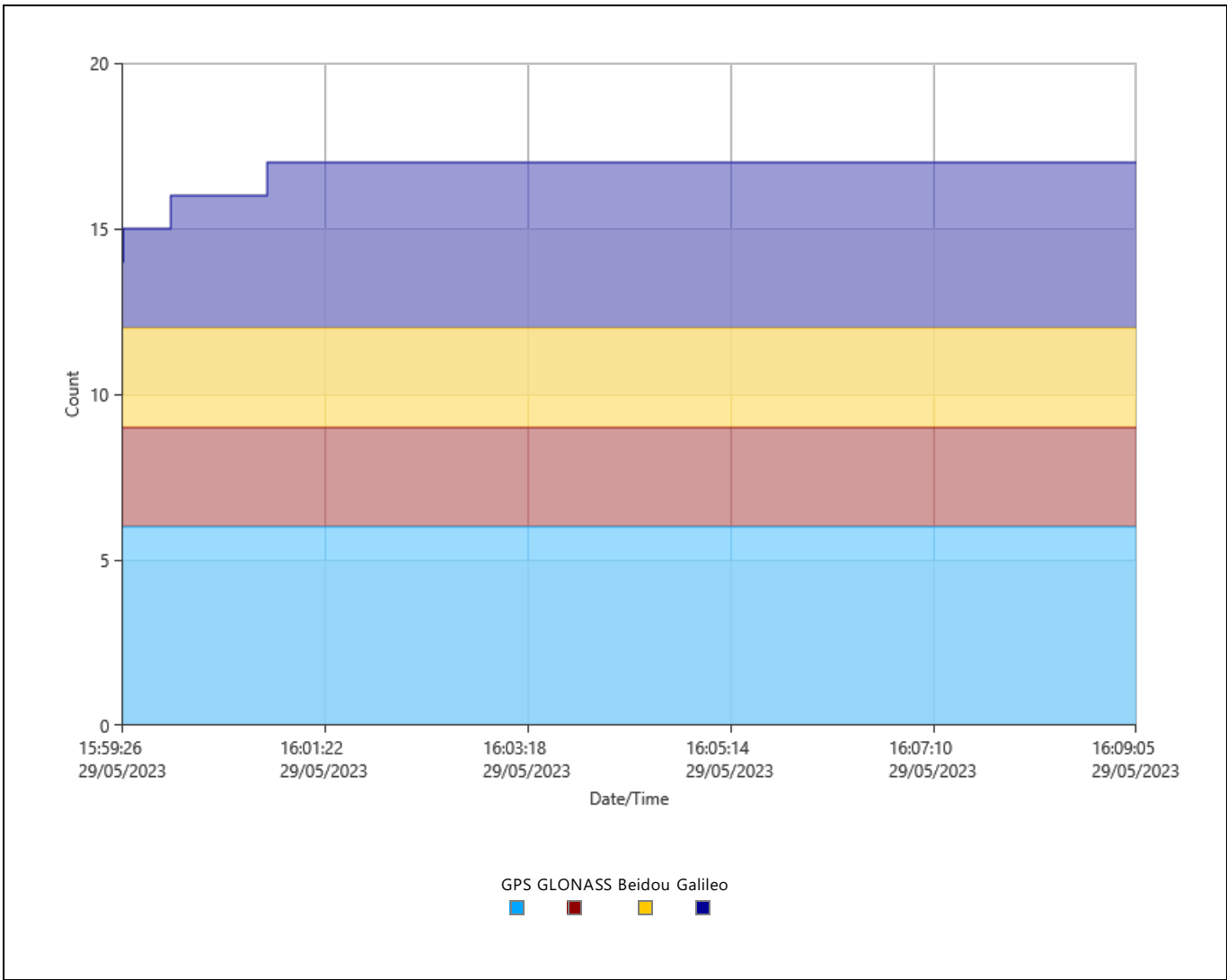
---

Processed Date/Time: 09/06/2023 17:54:21

### Satellites

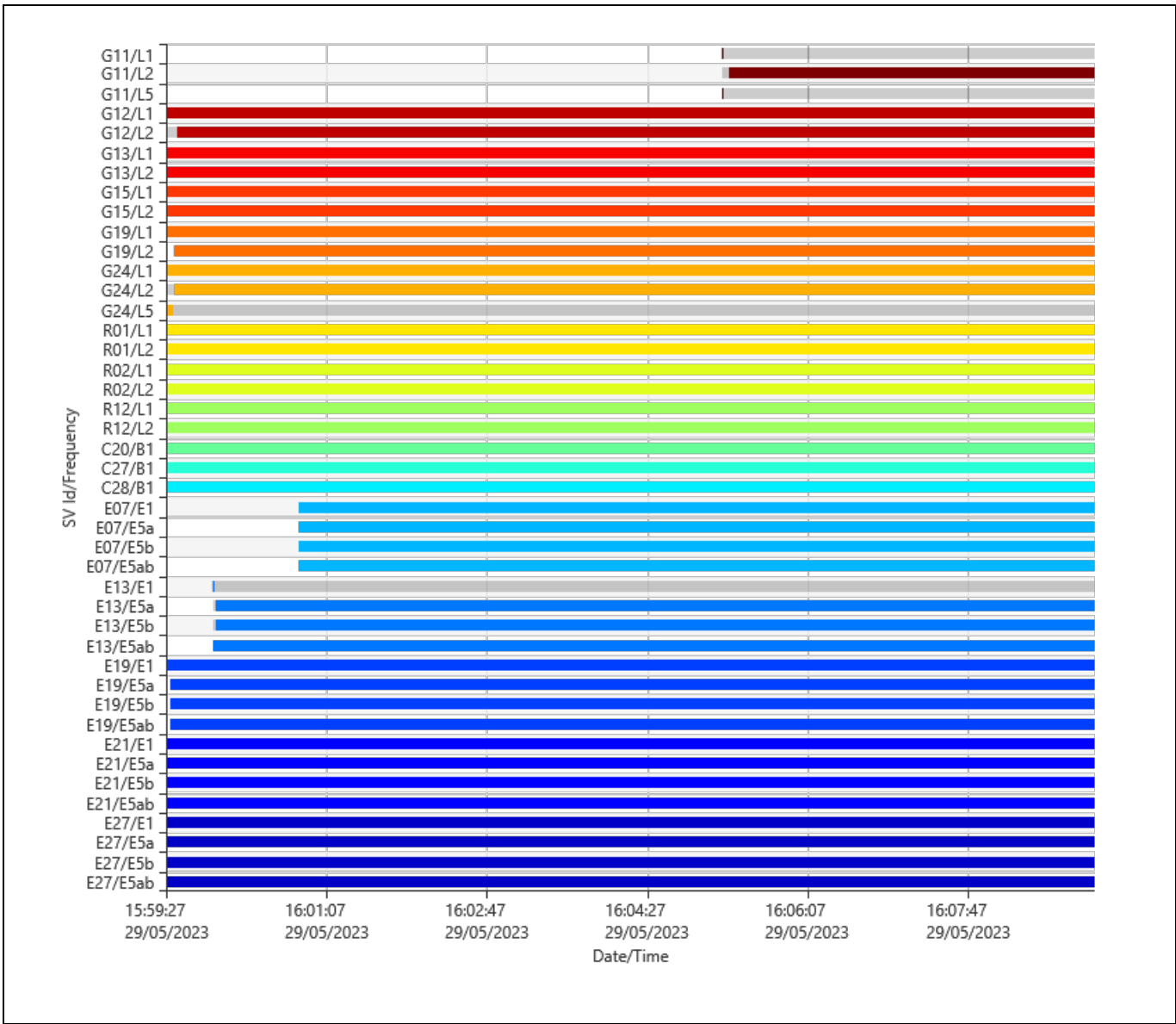
Satellite System	Used	Manually Disabled
GPS	G11 G12 G13 G15 G19 G24	-
GLONASS	R01 R02 R12	-
Beidou	C20 C27 C28	-
Galileo	E07 E13 E19 E21 E27	-

### SVs Tracked

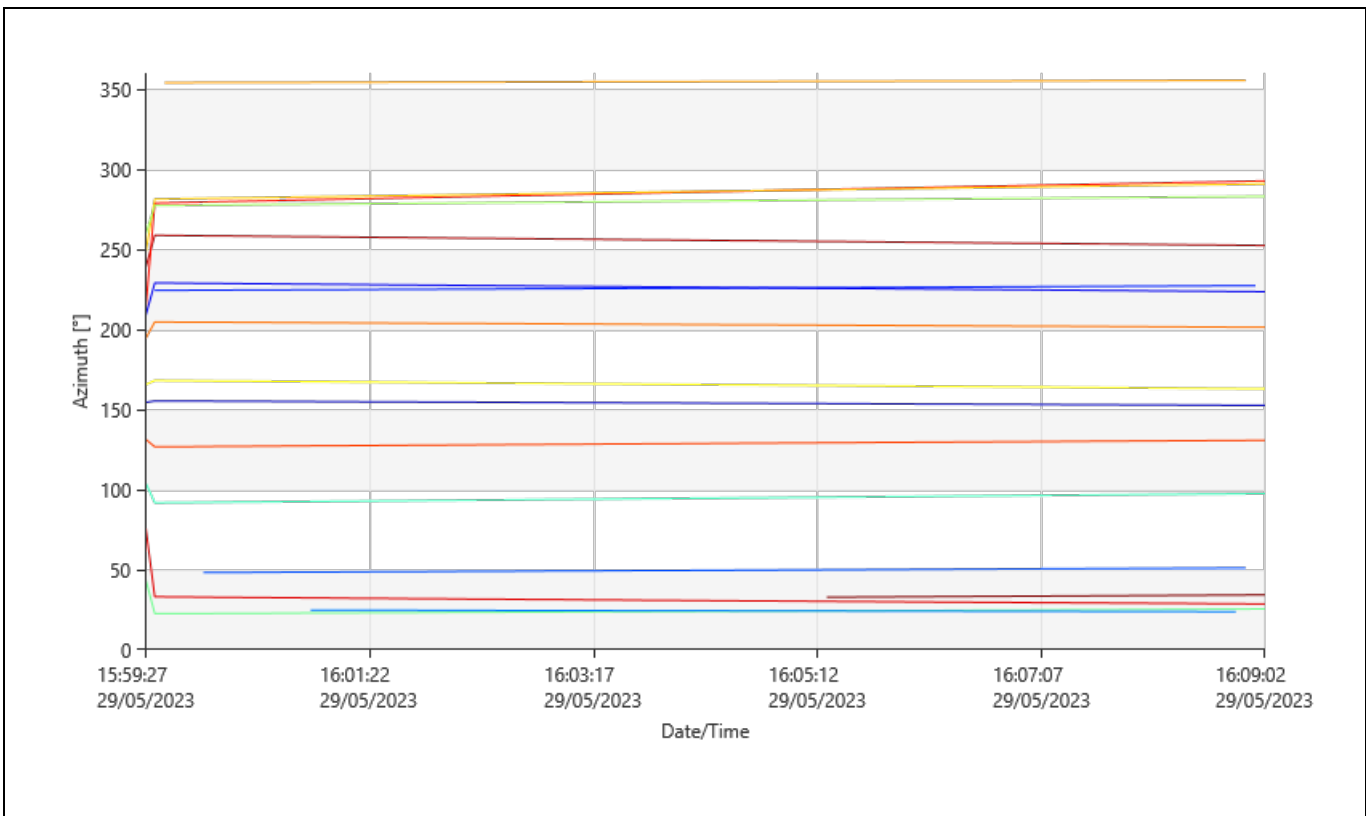


**Signals Tracked**



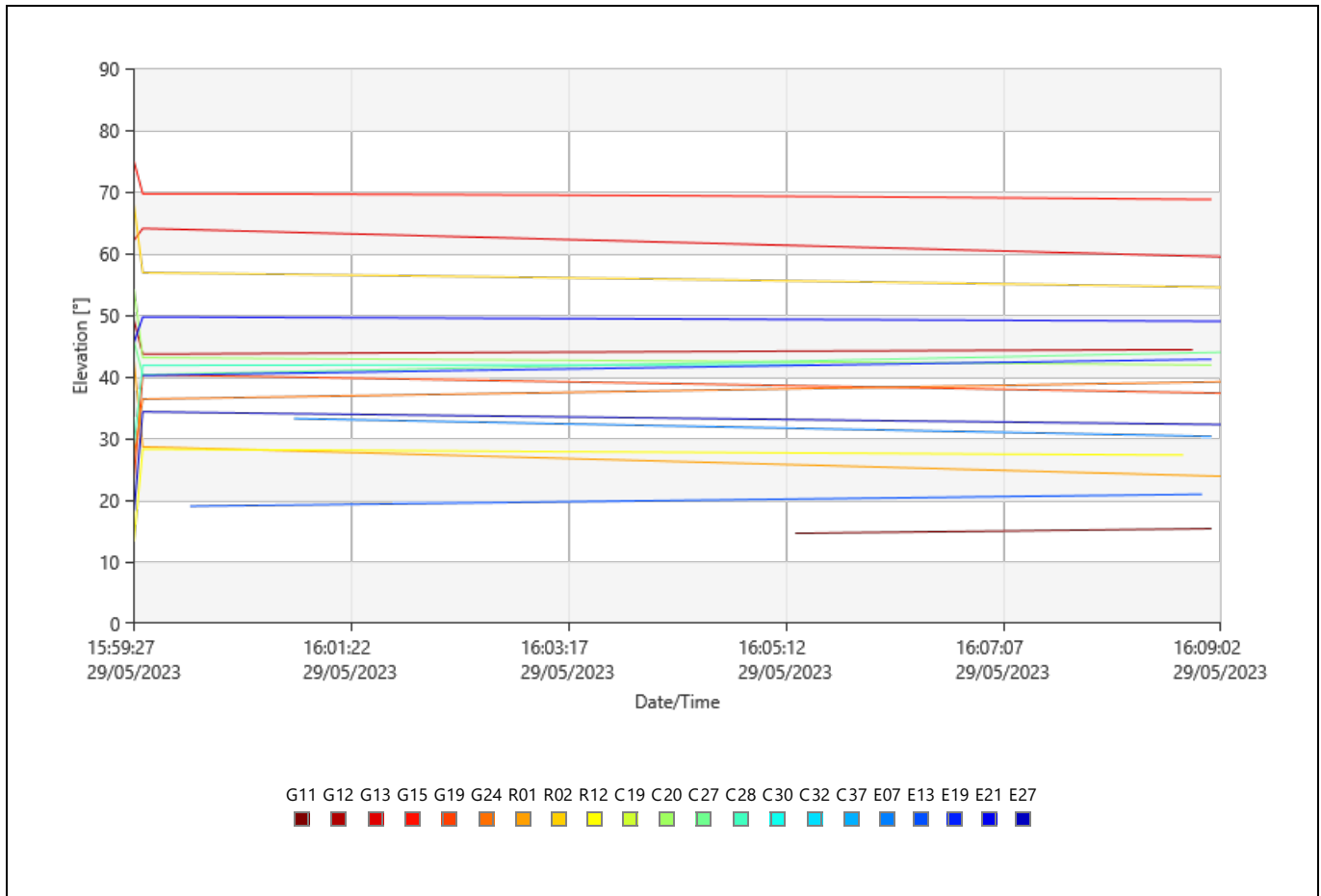


**Azimuth**

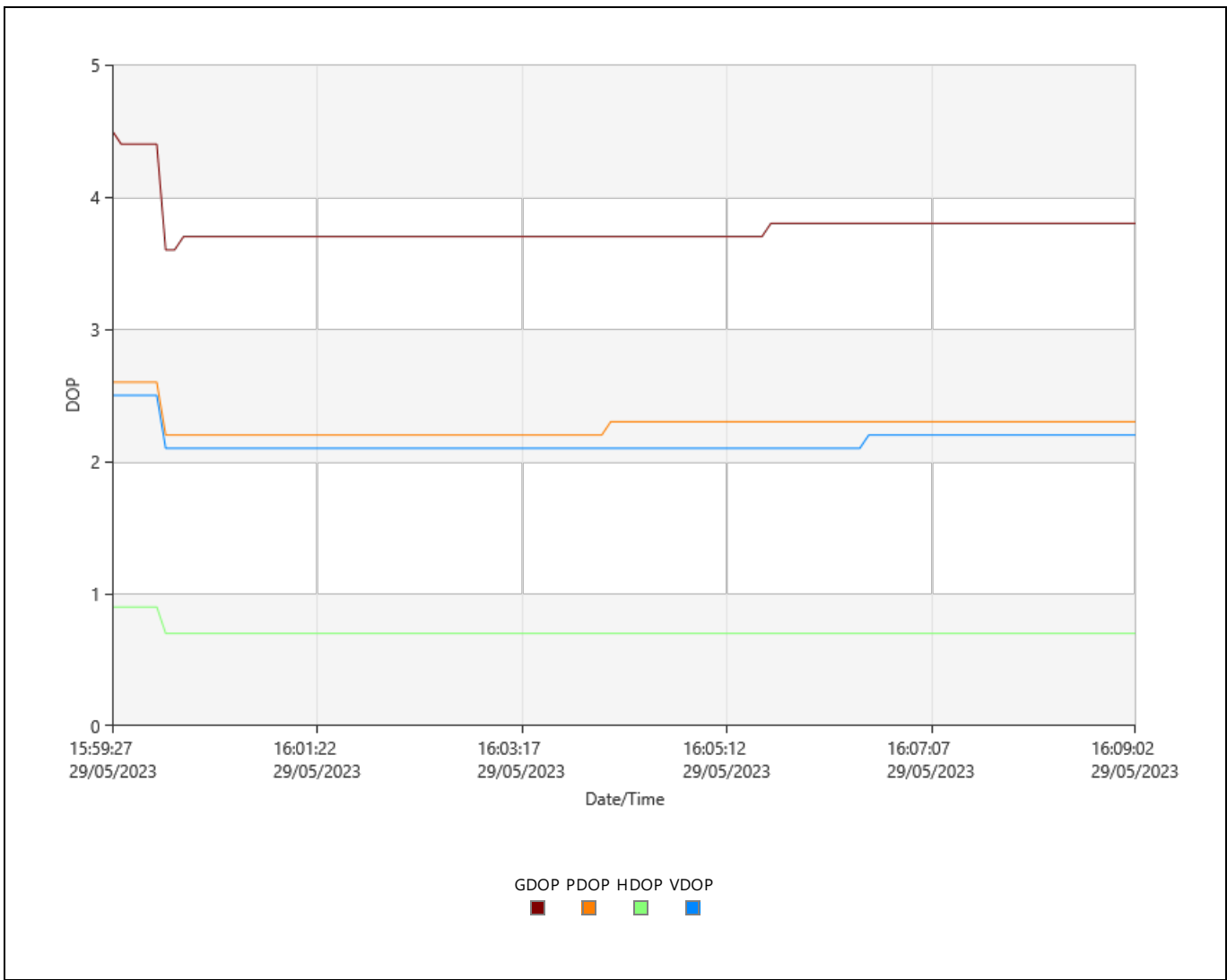


G11 G12 G13 G15 G19 G24 R01 R02 R12 C19 C20 C27 C28 C30 C32 C37 E07 E13 E19 E21 E27

Elevation



DOP



### Observation Statistics

Common Epochs: 580

#### GPS Observations

Frequency	Used	Rejected
L1	2,901	233
L2	3,112	15
L5	5	808

#### GLONASS Observations

Frequency	Used	Rejected
L1	1,740	0
L2	1,740	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,740	0

#### Galileo Observations

Frequency	Used	Rejected
E1	2,237	551
E5a	2,783	2
E5b	2,783	2
E5ab	2,785	0

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	16	6	3	20
Total	20	6	3	22
Independently fixed	72	72	72	72
Possible independently fixed	72	72	72	72

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.46	99.45	100.00	100.00	100.00	100.00	100.00	99.93	99.93	100.00
Not fixed	0.54	0.55	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.00
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 15:59:27	29/05/2023 16:09:06	00:09:39

## Residuals

### Tracking Status

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:05:13	No Data
	29/05/2023 16:05:13	29/05/2023 16:05:14	Rejected
	29/05/2023 16:05:14	29/05/2023 16:05:15	Used
	29/05/2023 16:05:15	29/05/2023 16:09:06	Rejected
L2	29/05/2023 15:59:27	29/05/2023 16:05:14	No Data
	29/05/2023 15:59:27	29/05/2023 16:05:18	No Data
	29/05/2023 16:05:14	29/05/2023 16:05:18	Rejected
	29/05/2023 16:05:18	29/05/2023 16:09:06	Used
L5	29/05/2023 16:05:18	29/05/2023 16:09:06	No Data
	29/05/2023 15:59:27	29/05/2023 16:05:14	No Data
	29/05/2023 16:05:14	29/05/2023 16:05:15	Used
	29/05/2023 16:05:15	29/05/2023 16:09:06	Rejected

#### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 15:59:28	No Data
	29/05/2023 15:59:27	29/05/2023 15:59:33	No Data
	29/05/2023 15:59:28	29/05/2023 15:59:33	Rejected
	29/05/2023 15:59:33	29/05/2023 15:59:34	Rejected
	29/05/2023 15:59:34	29/05/2023 16:09:06	Used
	29/05/2023 15:59:33	29/05/2023 16:09:06	No Data

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

#### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 15:59:31	No Data
	29/05/2023 15:59:31	29/05/2023 15:59:32	Rejected
	29/05/2023 15:59:32	29/05/2023 16:09:06	Used

#### G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 15:59:28	No Data
	29/05/2023 15:59:27	29/05/2023 15:59:31	No Data
	29/05/2023 15:59:28	29/05/2023 15:59:31	Rejected
	29/05/2023 15:59:31	29/05/2023 15:59:32	Rejected
	29/05/2023 15:59:32	29/05/2023 16:09:06	Used
	29/05/2023 15:59:31	29/05/2023 16:09:06	No Data
L5	29/05/2023 15:59:27	29/05/2023 15:59:31	Used
	29/05/2023 15:59:31	29/05/2023 16:09:06	Rejected

#### R01

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

#### R02

Frequency	From Epoch	To Epoch	Status
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L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

R12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
L2	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:59:27	29/05/2023 16:00:50	No Data
	29/05/2023 16:00:50	29/05/2023 16:09:06	Used
E5a	29/05/2023 15:59:27	29/05/2023 16:00:50	No Data
	29/05/2023 16:00:50	29/05/2023 16:09:06	Used
E5b	29/05/2023 15:59:27	29/05/2023 16:00:50	No Data
	29/05/2023 16:00:50	29/05/2023 16:09:06	Used
E5ab	29/05/2023 15:59:27	29/05/2023 16:00:50	No Data
	29/05/2023 16:00:50	29/05/2023 16:09:06	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:59:27	29/05/2023 15:59:55	No Data
	29/05/2023 15:59:55	29/05/2023 15:59:56	Rejected
	29/05/2023 15:59:56	29/05/2023 15:59:57	Used
	29/05/2023 15:59:57	29/05/2023 16:09:06	Rejected
E5a	29/05/2023 15:59:27	29/05/2023 15:59:56	No Data
	29/05/2023 15:59:56	29/05/2023 15:59:58	Rejected
	29/05/2023 15:59:58	29/05/2023 16:09:06	Used
E5b	29/05/2023 15:59:27	29/05/2023 15:59:56	No Data
	29/05/2023 15:59:56	29/05/2023 15:59:58	Rejected
	29/05/2023 15:59:58	29/05/2023 16:09:06	Used
E5ab	29/05/2023 15:59:27	29/05/2023 15:59:56	No Data
	29/05/2023 15:59:56	29/05/2023 16:09:06	Used

E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:59:27	29/05/2023 15:59:28	No Data
	29/05/2023 15:59:28	29/05/2023 16:09:06	Used
E5a	29/05/2023 15:59:27	29/05/2023 15:59:30	No Data
	29/05/2023 15:59:30	29/05/2023 16:09:06	Used
E5b	29/05/2023 15:59:27	29/05/2023 15:59:30	No Data
	29/05/2023 15:59:30	29/05/2023 16:09:06	Used
E5ab	29/05/2023 15:59:27	29/05/2023 15:59:30	No Data
	29/05/2023 15:59:30	29/05/2023 16:09:06	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5a	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5b	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5ab	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5a	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5b	29/05/2023 15:59:27	29/05/2023 16:09:06	Used
E5ab	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 15:59:27	29/05/2023 16:09:06	Used

## Cycle Slips

Slip Count: 2

SV	Frequency	Epoch	Slip Value	Flag
E13	E5a	29/05/2023 15:59:58	-	RIA
	E5b	29/05/2023 15:59:58	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

No valid ephemeris for satellite coordinate calculation R24 between 29/05/2023 15:59:42 and 29/05/2023 16:59:42.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

# Baseline MOQ01058 - PAF-CU2-10E

## Processing Parameters (29/05/2023 16:26:02 - 29/05/2023 16:32:24)

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Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Model:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Model Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-10E

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### Acquisition

Start Time - End Time:	29/05/2023 16:26:02 - 29/05/2023 16:32:24
Duration:	00:06:22

## Antennas

	Reference - MOQ01058	Rover - PAF-CU2-10E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

## Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

## Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-10E	Reference - MOQ01058	Rover - PAF-CU2-10E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 31.68120" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 42' 33.65204" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,054.124 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,016,104.913 m		3,012.795 m
WGS84 Cartesian Y:	-	-5,760,104.366 m		
WGS84 Cartesian Z:	-	-1,858,187.158 m		

## Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 15.41219"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 01.96159"	SD ΔLongitude:	0.000 m
ΔHeight:	-884.787 m	SD ΔHeight:	0.001 m
ΔX:	-558.719 m	SD ΔX:	0.000 m
ΔY:	1,420.562 m	SD ΔY:	0.001 m
ΔZ:	-1,958.683 m	SD ΔZ:	0.000 m
Slope Dist.:	2,483.265 m	SD Slope Dist.:	0.000 m

M0:	0.461 m	CQ 1D:	0.001 m
Q11:	0.00000082	CQ 2D:	0.000 m
Q12:	-0.00000121	CQ 3D:	0.001 m
Q22:	0.00000223		
Q13:	-0.00000064		
Q23:	0.00000109		
Q33:	0.00000066		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	4.1 - 8.2	GPS SVs:	5/5
Solution Optimisation:	None	PDOP:	2.5 - 4.7	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.8 - 1.3	Beidou SVs:	3/3
		VDOP:	2.3 - 4.6	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

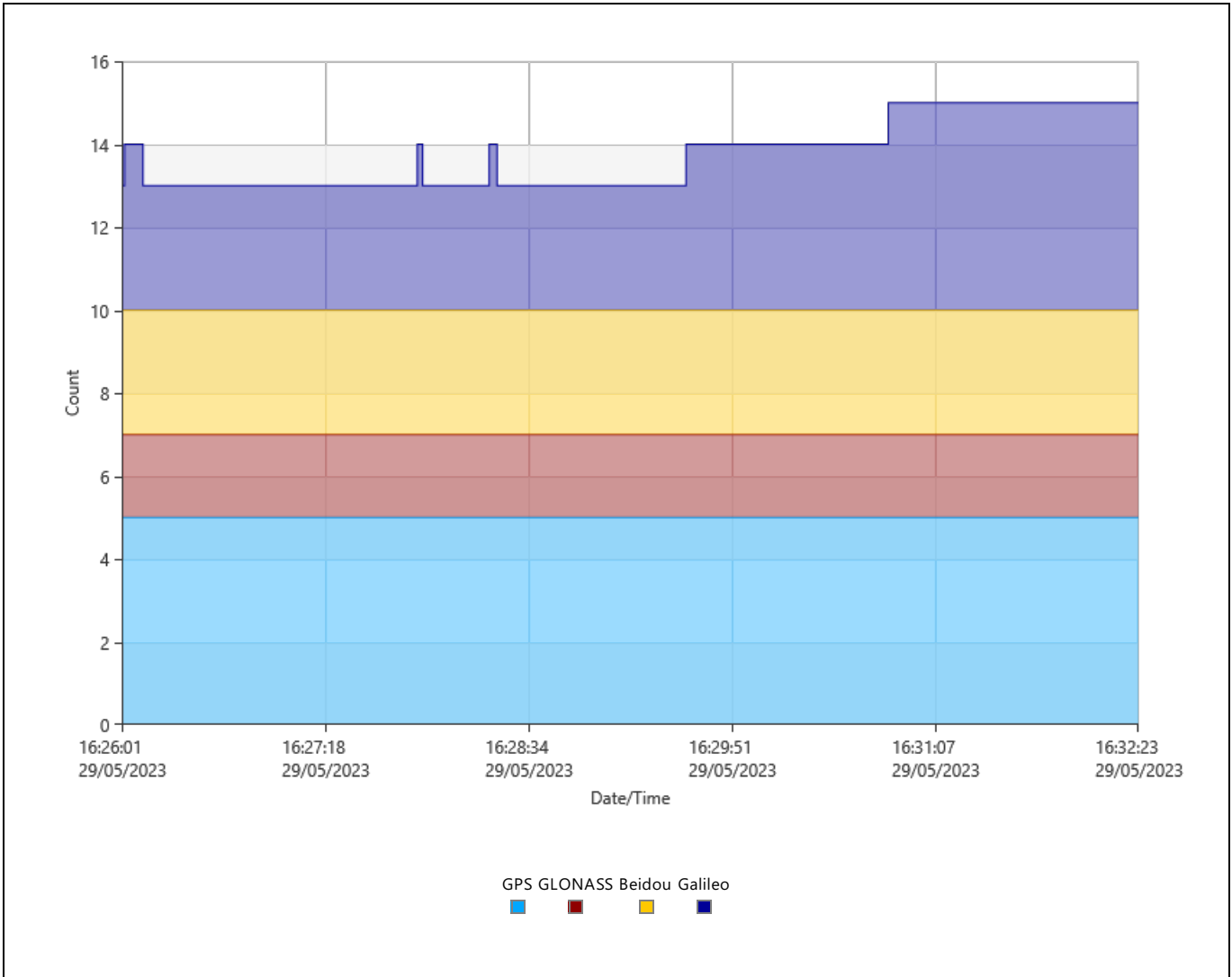
## Processing Info (29/05/2023 16:26:02 - 29/05/2023 16:32:24)

Processed Date/Time: 09/06/2023 17:54:21

## Satellites

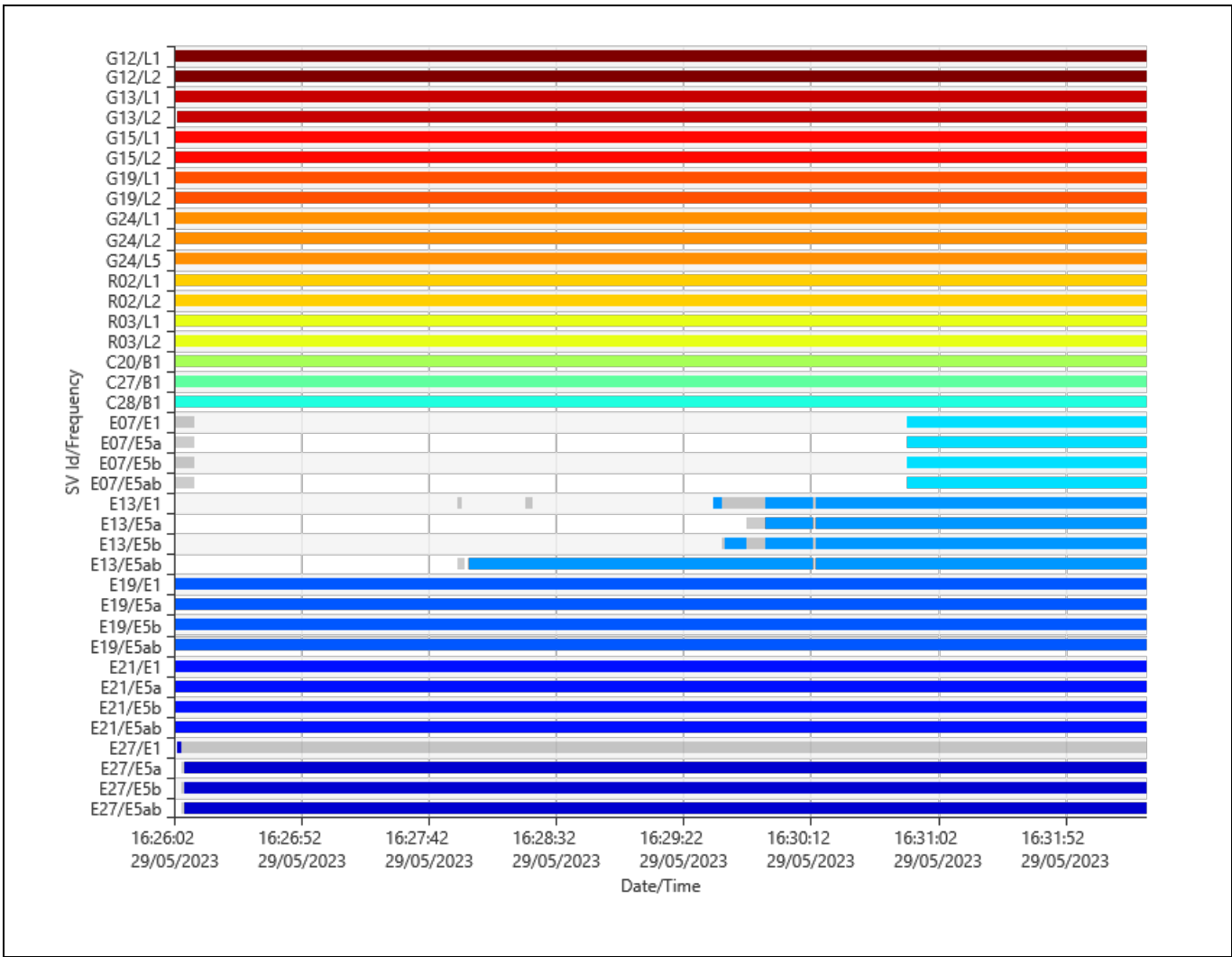
Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G19 G24	-
GLONASS	R02 R03	-
Beidou	C20 C27 C28	-
Galileo	E07 E13 E19 E21 E27	-

**SVs Tracked**

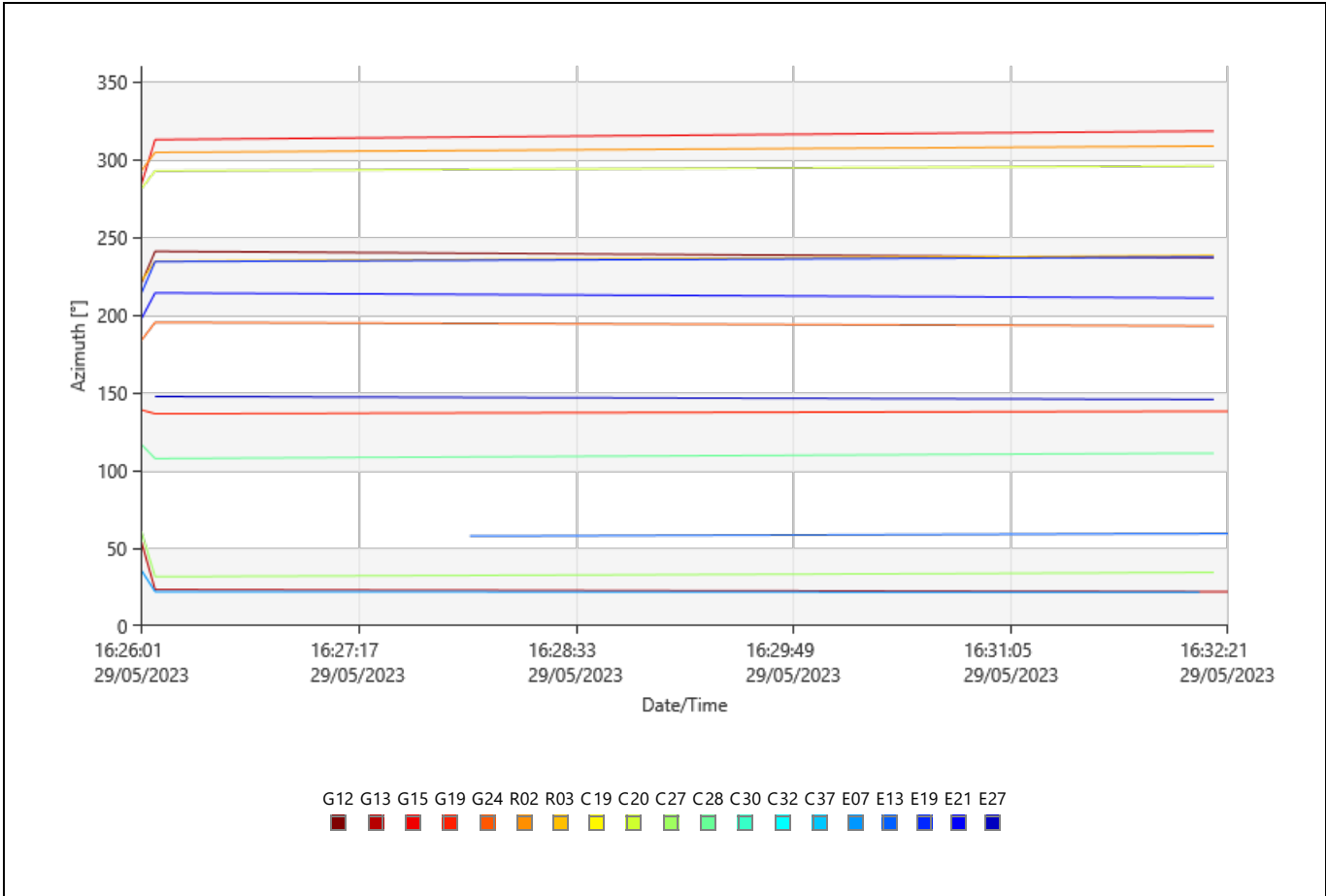


**Signals Tracked**

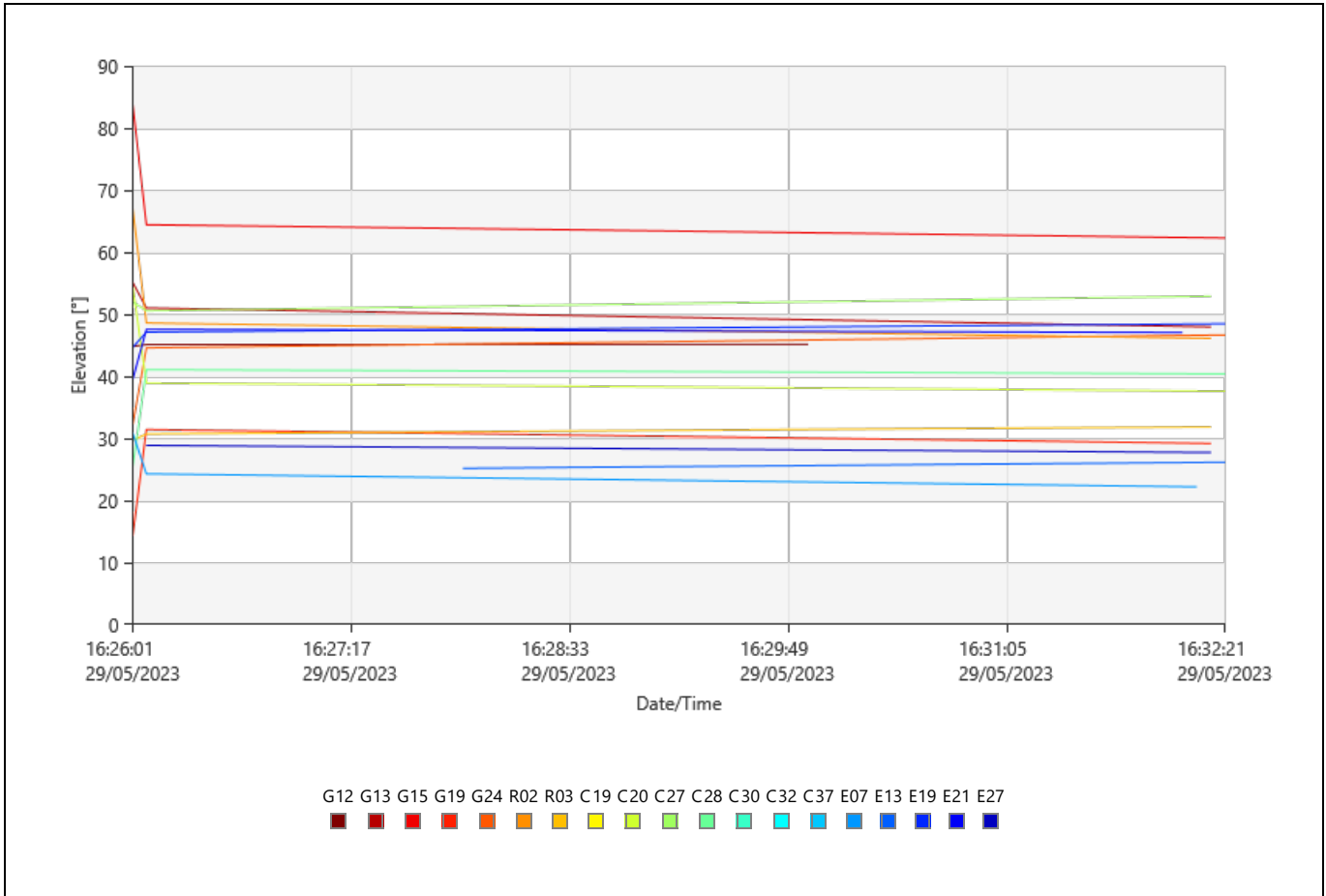




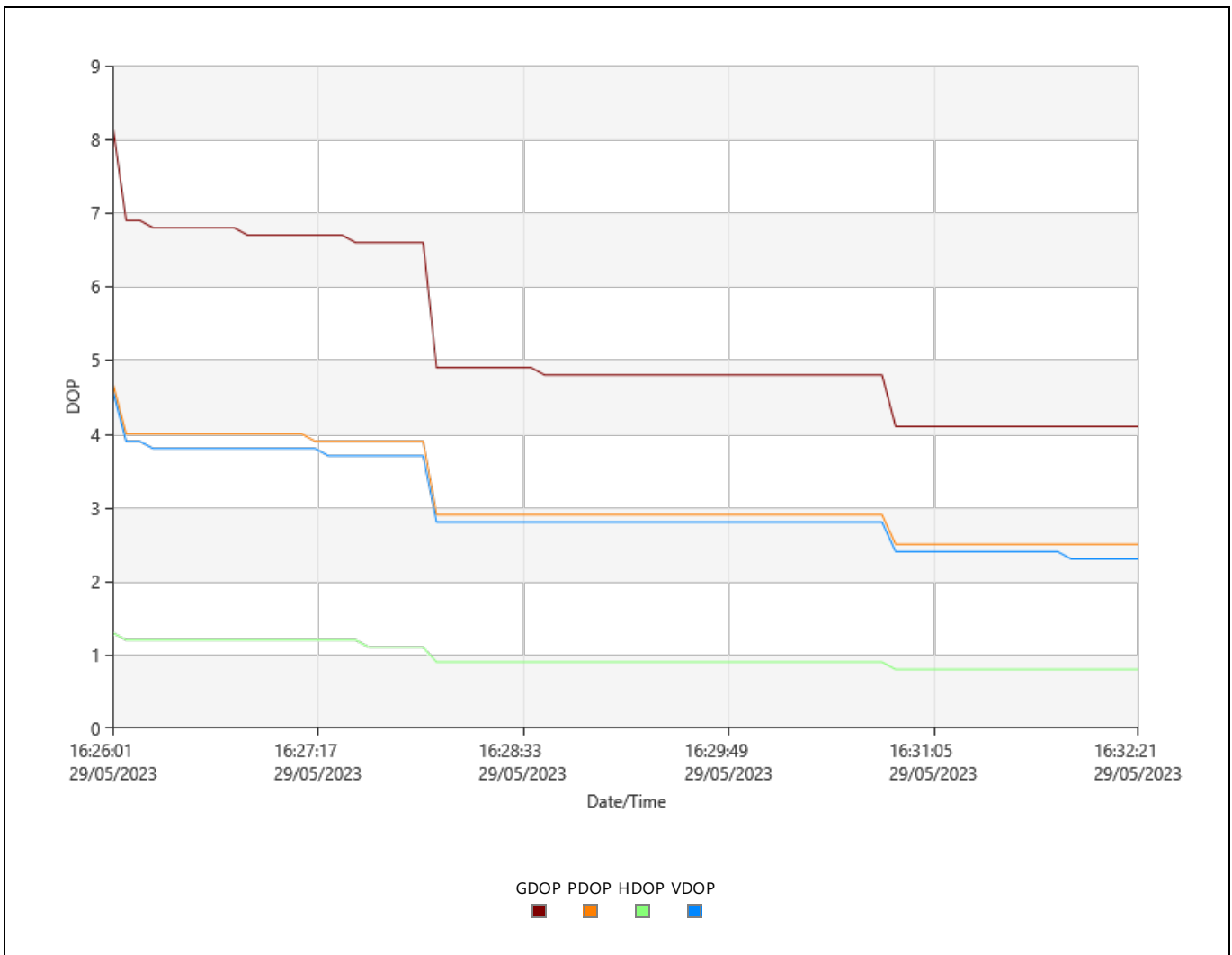
**Azimuth**



### Elevation



### DOP



## Observation Statistics

Common Epochs: 383

### GPS Observations

Frequency	Used	Rejected
L1	1,915	0
L2	1,914	0
L5	383	0

### GLONASS Observations

Frequency	Used	Rejected
L1	766	0
L2	766	0

### Beidou Observations

Frequency	Used	Rejected
B1	1,149	0

### Galileo Observations

Frequency	Used	Rejected
E1	1,016	411
E5a	1,390	17
E5b	1,399	18
E5ab	1,506	14

## Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	11	6	3	23
Total	11	6	3	31
Independently fixed	48	48	48	48
Possible independently fixed	48	48	48	48

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	99.02	99.00	99.43	99.34
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.98	1.00	0.57	0.66
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 16:26:02	29/05/2023 16:32:24	00:06:22

## Residuals

## Tracking Status

### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:26:03	No Data
	29/05/2023 16:26:03	29/05/2023 16:32:24	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

### G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

### G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L5	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

## R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

## R03

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
L2	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

## E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:02	29/05/2023 16:26:10	Rejected
	29/05/2023 16:26:10	29/05/2023 16:30:50	No Data
	29/05/2023 16:30:50	29/05/2023 16:32:24	Used
E5a	29/05/2023 16:26:02	29/05/2023 16:26:10	Rejected
	29/05/2023 16:26:10	29/05/2023 16:30:50	No Data
	29/05/2023 16:30:50	29/05/2023 16:32:24	Used
E5b	29/05/2023 16:26:02	29/05/2023 16:26:10	Rejected
	29/05/2023 16:26:10	29/05/2023 16:30:50	No Data
	29/05/2023 16:30:50	29/05/2023 16:32:24	Used
E5ab	29/05/2023 16:26:02	29/05/2023 16:26:10	Rejected
	29/05/2023 16:26:10	29/05/2023 16:30:50	No Data
	29/05/2023 16:30:50	29/05/2023 16:32:24	Used

## E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:02	29/05/2023 16:27:53	No Data
	29/05/2023 16:27:53	29/05/2023 16:27:55	Rejected
	29/05/2023 16:27:55	29/05/2023 16:28:20	No Data
	29/05/2023 16:28:20	29/05/2023 16:28:23	Rejected
	29/05/2023 16:28:23	29/05/2023 16:29:34	No Data
	29/05/2023 16:29:34	29/05/2023 16:29:37	Used
	29/05/2023 16:29:37	29/05/2023 16:29:54	Rejected
	29/05/2023 16:29:54	29/05/2023 16:30:13	Used
	29/05/2023 16:30:13	29/05/2023 16:30:14	Rejected
E5a	29/05/2023 16:30:14	29/05/2023 16:32:24	Used
	29/05/2023 16:26:02	29/05/2023 16:29:47	No Data
	29/05/2023 16:29:47	29/05/2023 16:29:54	Rejected
	29/05/2023 16:29:54	29/05/2023 16:30:13	Used
	29/05/2023 16:30:13	29/05/2023 16:30:14	Rejected
E5b	29/05/2023 16:30:14	29/05/2023 16:32:24	Used
	29/05/2023 16:26:02	29/05/2023 16:29:37	No Data
	29/05/2023 16:29:37	29/05/2023 16:29:38	Rejected
	29/05/2023 16:29:38	29/05/2023 16:29:47	Used
	29/05/2023 16:29:47	29/05/2023 16:29:54	Rejected
	29/05/2023 16:29:54	29/05/2023 16:30:13	Used
E5ab	29/05/2023 16:30:13	29/05/2023 16:30:14	Rejected
	29/05/2023 16:30:14	29/05/2023 16:32:24	Used
	29/05/2023 16:26:02	29/05/2023 16:27:53	No Data
	29/05/2023 16:27:53	29/05/2023 16:27:56	Rejected
	29/05/2023 16:27:56	29/05/2023 16:27:57	No Data
	29/05/2023 16:27:57	29/05/2023 16:27:58	Rejected
	29/05/2023 16:27:58	29/05/2023 16:30:13	Used
29/05/2023 16:30:13	29/05/2023 16:30:14	Rejected	
29/05/2023 16:30:14	29/05/2023 16:32:24	Used	

## E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
E5a	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
E5b	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
E5ab	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

## E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
E5a	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
E5b	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

E5ab	29/05/2023 16:26:02	29/05/2023 16:32:24	Used
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#### E27

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:02	29/05/2023 16:26:03	No Data
	29/05/2023 16:26:03	29/05/2023 16:26:05	Used
	29/05/2023 16:26:05	29/05/2023 16:32:24	Rejected
E5a	29/05/2023 16:26:02	29/05/2023 16:26:05	No Data
	29/05/2023 16:26:05	29/05/2023 16:26:06	Rejected
	29/05/2023 16:26:06	29/05/2023 16:32:24	Used
E5b	29/05/2023 16:26:02	29/05/2023 16:26:05	No Data
	29/05/2023 16:26:05	29/05/2023 16:26:06	Rejected
	29/05/2023 16:26:06	29/05/2023 16:32:24	Used
E5ab	29/05/2023 16:26:02	29/05/2023 16:26:05	No Data
	29/05/2023 16:26:05	29/05/2023 16:26:06	Rejected
	29/05/2023 16:26:06	29/05/2023 16:32:24	Used

#### C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

#### C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

#### C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:26:02	29/05/2023 16:32:24	Used

### Cycle Slips

Slip Count: 9

SV	Frequency	Epoch	Slip Value	Flag
E13	E1	29/05/2023 16:29:54	-	RIA
		29/05/2023 16:30:14	1.0000000000	Flagged
	E5a	29/05/2023 16:29:54	-	RIA
		29/05/2023 16:30:14	-	Flagged
	E5b	29/05/2023 16:29:54	-	RIA
		29/05/2023 16:30:14	-	Flagged
	E5ab	29/05/2023 16:28:22	-	Flagged
		29/05/2023 16:29:54	-	RIA
		29/05/2023 16:30:14	-	Flagged

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

### Processing Messages

#### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

No valid ephemeris for satellite coordinate calculation R24 between 29/05/2023 15:59:42 and 29/05/2023 16:59:42.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

## Baseline MOQ01058 - PAF-CU2-14E

### Processing Parameters (29/05/2023 16:26:05 - 29/05/2023 16:32:19)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	The DOP values exceeded a critical limit.
Ephemeris Type:	Precise	Precise	

Antenna Calibration NGS Absolute NGS Absolute  
Set:

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

### General Settings

Min. Distance for Ionospheric Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

### Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-14E

### Acquisition

Start Time - End Time:	29/05/2023 16:26:05 - 29/05/2023 16:32:19
Duration:	00:06:14

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-14E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

	Reference - MOQ01058	Rover - PAF-CU2-14E	Reference - MOQ01058	Rover - PAF-CU2-14E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 13.54061" S	Easting:	318,107.441 m
WGS84 Longitude:	-	70° 42' 43.18064" W	Northing:	8,117,307.121 m
WGS84 Ellip. Height:	-	3,112.614 m	Ortho. Height:	3,897.429 m
WGS84 Cartesian X:	-	2,015,911.295 m		
WGS84 Cartesian Y:	-	-5,760,404.597 m		
WGS84 Cartesian Z:	-	-1,857,670.848 m		

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 00' 57.27160"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 11.49019"	SD ΔLongitude:	0.001 m

ΔHeight:	-826.297 m	SD ΔHeight:	0.002 m
ΔX:	-752.337 m	SD ΔX:	0.001 m
ΔY:	1,120.331 m	SD ΔY:	0.002 m
ΔZ:	-1,442.373 m	SD ΔZ:	0.001 m
Slope Dist.:	1,975.245 m	SD Slope Dist.:	0.001 m

M0:	0.704 m	CQ 1D:	0.002 m
Q11:	0.00000239	CQ 2D:	0.001 m
Q12:	-0.00000313	CQ 3D:	0.002 m
Q22:	0.00000459		
Q13:	-0.00000157		
Q23:	0.00000222		
Q33:	0.00000118		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	6.7 - 13.2	GPS SVs:	5/5
Solution Optimisation:	None	PDOP:	4.0 - 7.7	GLONASS SVs:	1/1
Solution Type:	Phase Fixed	HDOP:	1.3 - 2.1	Beidou SVs:	3/3
		VDOP:	3.8 - 7.4	Galileo SVs:	5/5
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

## Processing Info (29/05/2023 16:26:05 - 29/05/2023 16:32:19)

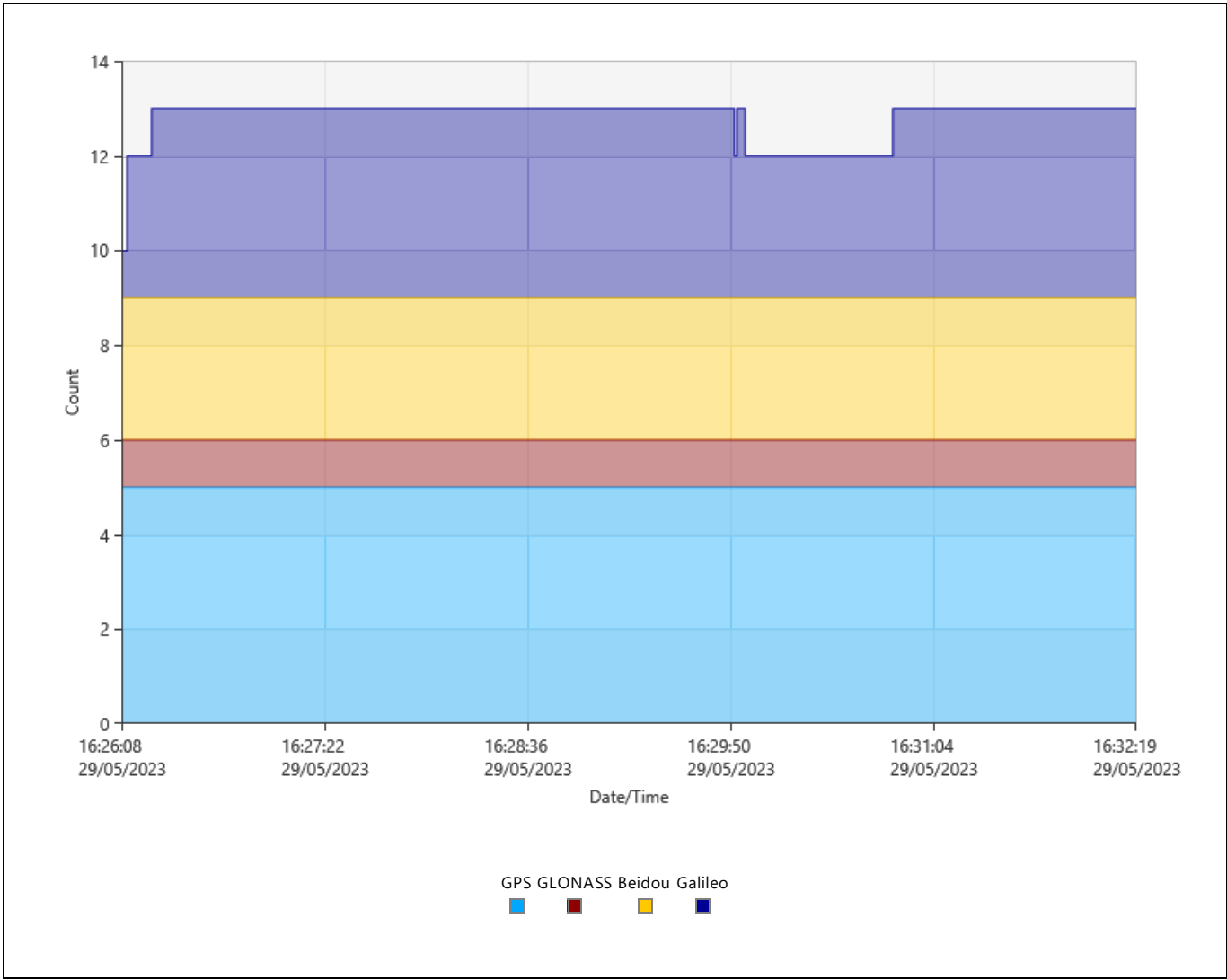
---

Processed Date/Time: 09/06/2023 17:54:21

### Satellites

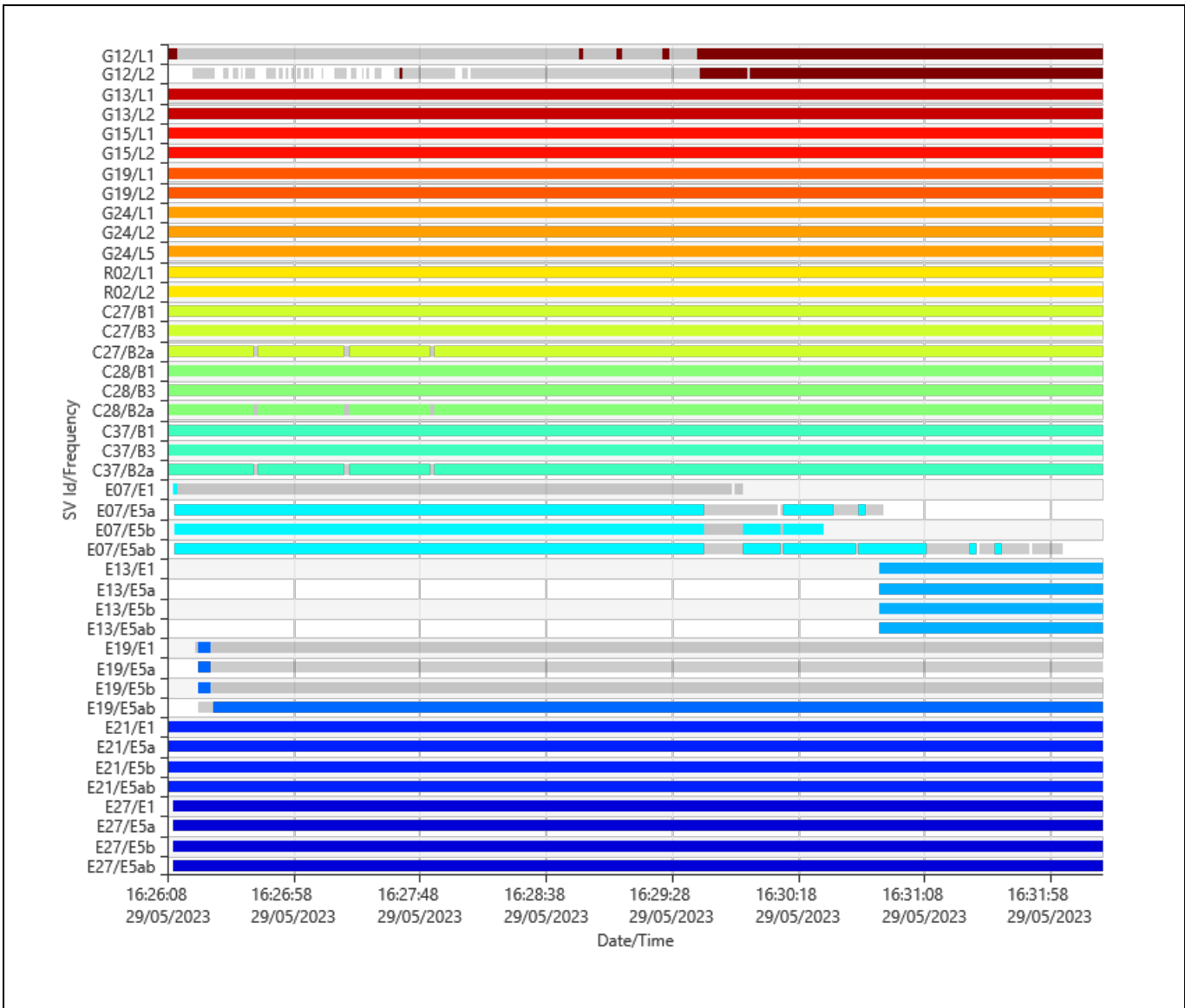
Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G19 G24	-
GLONASS	R02	-
Beidou	C27 C28 C37	-
Galileo	E07 E13 E19 E21 E27	-

### SVs Tracked

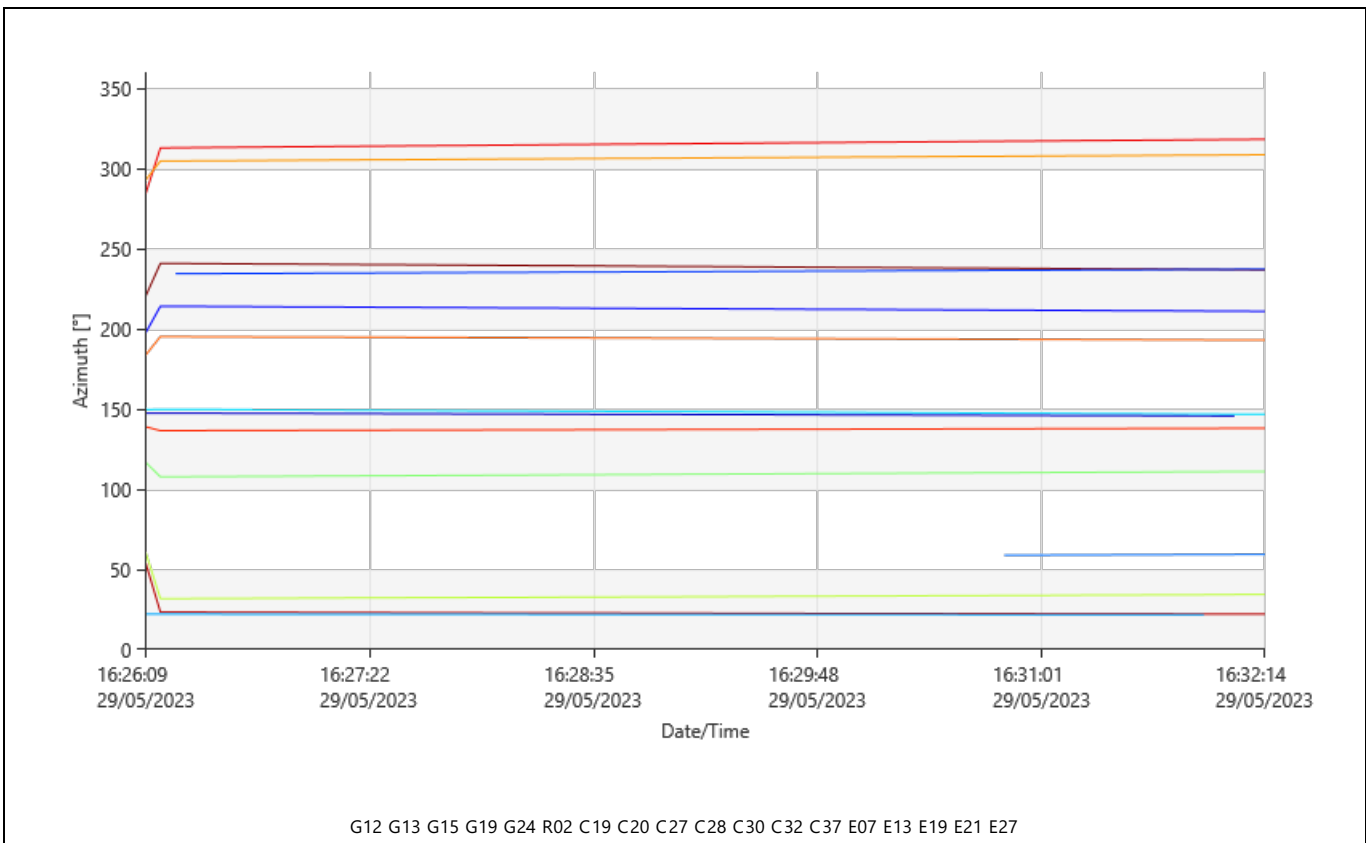


Signals Tracked





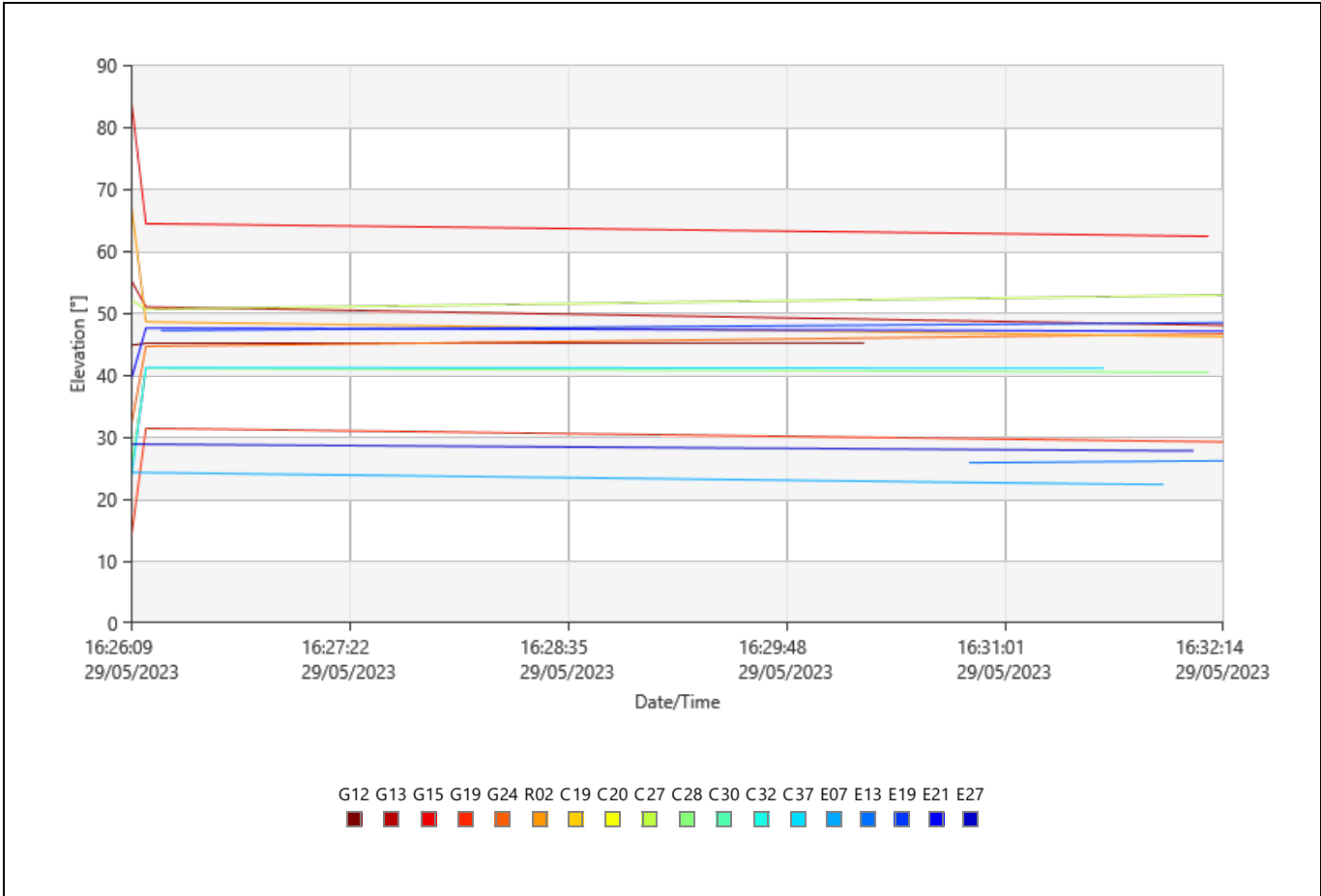
**Azimuth**



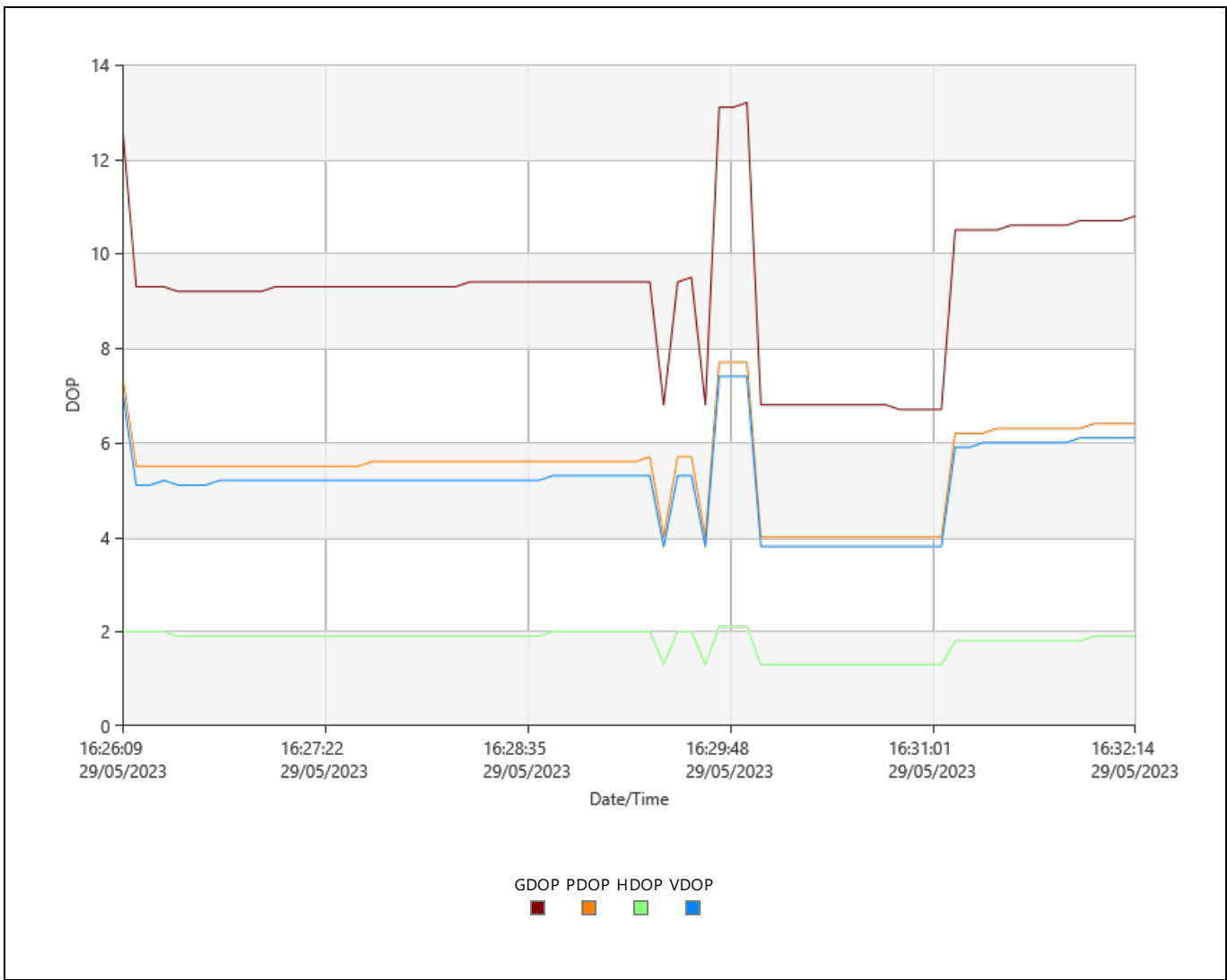
G12 G13 G15 G19 G24 R02 C19 C20 C27 C28 C30 C32 C37 E07 E13 E19 E21 E27



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 375

#### GPS Observations

Frequency	Used	Rejected
L1	1,661	199
L2	1,649	161
L5	372	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	372	0
L2	372	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,116	0
B3	1,116	0
B2a	1,098	18

#### Galileo Observations

Frequency	Used	Rejected
E1	839	579
E5a	1,070	402
E5b	1,078	371
E5ab	1,473	69

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	15	4	18	28
Total	40	4	27	38
Independently fixed	48	48	48	48
Possible independently fixed	51	51	51	51

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	94.27	94.34	100.00	100.00	100.00	100.00	100.00	98.38	99.15	97.68	99.03	96.75
Not fixed	4.00	5.66	0.00	0.00	0.00	0.00	0.00	1.62	0.85	2.32	0.97	3.25
Not fixed - contradiction	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	29/05/2023 16:26:05	29/05/2023 16:26:12	00:00:07
Fixed	29/05/2023 16:26:12	29/05/2023 16:32:19	00:06:07

Residuals

Tracking Status

G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:26:12	Used
	<b>29/05/2023 16:26:12</b>	<b>29/05/2023 16:28:51</b>	<b>Rejected</b>
	29/05/2023 16:28:51	29/05/2023 16:28:53	Used
	<b>29/05/2023 16:28:53</b>	<b>29/05/2023 16:29:06</b>	<b>Rejected</b>
	29/05/2023 16:29:06	29/05/2023 16:29:08	Used
	<b>29/05/2023 16:29:08</b>	<b>29/05/2023 16:29:24</b>	<b>Rejected</b>
	29/05/2023 16:29:24	29/05/2023 16:29:27	Used
	<b>29/05/2023 16:29:27</b>	<b>29/05/2023 16:29:38</b>	<b>Rejected</b>
29/05/2023 16:29:38	29/05/2023 16:32:19	Used	
	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:18</b>	<b>No Data</b>
	<b>29/05/2023 16:26:18</b>	<b>29/05/2023 16:26:27</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:27</b>	<b>29/05/2023 16:26:30</b>	<b>No Data</b>
	<b>29/05/2023 16:26:30</b>	<b>29/05/2023 16:26:32</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:32</b>	<b>29/05/2023 16:26:34</b>	<b>No Data</b>
	<b>29/05/2023 16:26:34</b>	<b>29/05/2023 16:26:36</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:36</b>	<b>29/05/2023 16:26:37</b>	<b>No Data</b>
	<b>29/05/2023 16:26:37</b>	<b>29/05/2023 16:26:38</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:38</b>	<b>29/05/2023 16:26:39</b>	<b>No Data</b>
	<b>29/05/2023 16:26:39</b>	<b>29/05/2023 16:26:43</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:43</b>	<b>29/05/2023 16:26:47</b>	<b>No Data</b>
	<b>29/05/2023 16:26:47</b>	<b>29/05/2023 16:26:51</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:51</b>	<b>29/05/2023 16:26:52</b>	<b>No Data</b>
	<b>29/05/2023 16:26:52</b>	<b>29/05/2023 16:26:54</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:54</b>	<b>29/05/2023 16:26:55</b>	<b>No Data</b>
	<b>29/05/2023 16:26:55</b>	<b>29/05/2023 16:26:56</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:56</b>	<b>29/05/2023 16:26:57</b>	<b>No Data</b>
	<b>29/05/2023 16:26:57</b>	<b>29/05/2023 16:26:58</b>	<b>Rejected</b>
	<b>29/05/2023 16:26:58</b>	<b>29/05/2023 16:26:59</b>	<b>No Data</b>
	<b>29/05/2023 16:26:59</b>	<b>29/05/2023 16:27:01</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:01</b>	<b>29/05/2023 16:27:02</b>	<b>No Data</b>
	<b>29/05/2023 16:27:02</b>	<b>29/05/2023 16:27:04</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:04</b>	<b>29/05/2023 16:27:05</b>	<b>No Data</b>
	<b>29/05/2023 16:27:05</b>	<b>29/05/2023 16:27:06</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:06</b>	<b>29/05/2023 16:27:09</b>	<b>No Data</b>
	<b>29/05/2023 16:27:09</b>	<b>29/05/2023 16:27:10</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:10</b>	<b>29/05/2023 16:27:14</b>	<b>No Data</b>
	<b>29/05/2023 16:27:14</b>	<b>29/05/2023 16:27:19</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:19</b>	<b>29/05/2023 16:27:21</b>	<b>No Data</b>
	<b>29/05/2023 16:27:21</b>	<b>29/05/2023 16:27:23</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:23</b>	<b>29/05/2023 16:27:25</b>	<b>No Data</b>
	<b>29/05/2023 16:27:25</b>	<b>29/05/2023 16:27:26</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:26</b>	<b>29/05/2023 16:27:27</b>	<b>No Data</b>
	<b>29/05/2023 16:27:27</b>	<b>29/05/2023 16:27:28</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:28</b>	<b>29/05/2023 16:27:30</b>	<b>No Data</b>
	<b>29/05/2023 16:27:30</b>	<b>29/05/2023 16:27:33</b>	<b>Rejected</b>
	<b>29/05/2023 16:27:33</b>	<b>29/05/2023 16:27:38</b>	<b>No Data</b>
	<b>29/05/2023 16:27:38</b>	<b>29/05/2023 16:27:40</b>	<b>Rejected</b>
	29/05/2023 16:27:40	29/05/2023 16:27:41	Used
	<b>29/05/2023 16:27:41</b>	<b>29/05/2023 16:28:02</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:02</b>	<b>29/05/2023 16:28:05</b>	<b>No Data</b>
	<b>29/05/2023 16:28:05</b>	<b>29/05/2023 16:28:07</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:07</b>	<b>29/05/2023 16:28:08</b>	<b>No Data</b>
	<b>29/05/2023 16:28:08</b>	<b>29/05/2023 16:28:10</b>	<b>No Data</b>
	<b>29/05/2023 16:28:08</b>	<b>29/05/2023 16:28:10</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:10</b>	<b>29/05/2023 16:28:12</b>	<b>No Data</b>
	<b>29/05/2023 16:28:10</b>	<b>29/05/2023 16:28:12</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:12</b>	<b>29/05/2023 16:28:14</b>	<b>No Data</b>
	<b>29/05/2023 16:28:12</b>	<b>29/05/2023 16:28:14</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:14</b>	<b>29/05/2023 16:28:15</b>	<b>No Data</b>
	<b>29/05/2023 16:28:14</b>	<b>29/05/2023 16:28:15</b>	<b>Rejected</b>
	<b>29/05/2023 16:28:15</b>	<b>29/05/2023 16:28:18</b>	<b>No Data</b>



	29/05/2023 16:29:14	29/05/2023 16:29:19	Rejected
	29/05/2023 16:29:19	29/05/2023 16:29:20	No Data
	29/05/2023 16:29:19	29/05/2023 16:29:20	Rejected
	29/05/2023 16:29:20	29/05/2023 16:29:22	No Data
	29/05/2023 16:29:20	29/05/2023 16:29:22	Rejected
	29/05/2023 16:29:22	29/05/2023 16:29:23	No Data
	29/05/2023 16:29:22	29/05/2023 16:29:23	Rejected
	29/05/2023 16:29:23	29/05/2023 16:29:26	No Data
	29/05/2023 16:29:23	29/05/2023 16:29:26	Rejected
	29/05/2023 16:29:26	29/05/2023 16:29:27	No Data
	29/05/2023 16:29:26	29/05/2023 16:29:27	Rejected
	29/05/2023 16:29:27	29/05/2023 16:29:30	No Data
	29/05/2023 16:29:27	29/05/2023 16:29:30	Rejected
	29/05/2023 16:29:30	29/05/2023 16:29:31	No Data
	29/05/2023 16:29:30	29/05/2023 16:29:31	Rejected
	29/05/2023 16:29:31	29/05/2023 16:29:32	No Data
	29/05/2023 16:29:31	29/05/2023 16:29:32	Rejected
	29/05/2023 16:29:32	29/05/2023 16:29:33	No Data
	29/05/2023 16:29:32	29/05/2023 16:29:33	Rejected
	29/05/2023 16:29:33	29/05/2023 16:29:36	No Data
	29/05/2023 16:29:33	29/05/2023 16:29:36	Rejected
	29/05/2023 16:29:36	29/05/2023 16:29:37	No Data
	29/05/2023 16:29:36	29/05/2023 16:29:37	Rejected
	29/05/2023 16:29:37	29/05/2023 16:29:39	Rejected
	29/05/2023 16:29:39	29/05/2023 16:29:58	Used
	29/05/2023 16:29:58	29/05/2023 16:29:59	Rejected
	29/05/2023 16:29:59	29/05/2023 16:32:19	Used
	29/05/2023 16:29:37	29/05/2023 16:32:19	No Data

G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L2	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L2	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

G19

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L2	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L2	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L5	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
L2	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

E07

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:26:08	29/05/2023 16:26:10	No Data
	29/05/2023 16:26:10	29/05/2023 16:26:12	Used
	29/05/2023 16:26:12	29/05/2023 16:29:52	Rejected
	29/05/2023 16:29:52	29/05/2023 16:29:53	No Data
	29/05/2023 16:29:53	29/05/2023 16:29:56	Rejected
E5a	29/05/2023 16:29:56	29/05/2023 16:32:19	No Data
	29/05/2023 16:26:08	29/05/2023 16:26:11	No Data
	29/05/2023 16:26:11	29/05/2023 16:29:41	Used
	29/05/2023 16:29:41	29/05/2023 16:30:10	Rejected
	29/05/2023 16:30:10	29/05/2023 16:30:11	No Data
E5a	29/05/2023 16:30:11	29/05/2023 16:30:12	Rejected
	29/05/2023 16:30:12	29/05/2023 16:30:32	Used

	<b>29/05/2023 16:30:32</b>	<b>29/05/2023 16:30:42</b>	<b>Rejected</b>
	29/05/2023 16:30:42	29/05/2023 16:30:45	Used
	<b>29/05/2023 16:30:45</b>	<b>29/05/2023 16:30:52</b>	<b>Rejected</b>
	<b>29/05/2023 16:30:52</b>	<b>29/05/2023 16:32:19</b>	<b>No Data</b>
<b>E5b</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:11</b>	<b>No Data</b>
	29/05/2023 16:26:11	29/05/2023 16:29:41	Used
	<b>29/05/2023 16:29:41</b>	<b>29/05/2023 16:29:56</b>	<b>Rejected</b>
	29/05/2023 16:29:56	29/05/2023 16:30:11	Used
	<b>29/05/2023 16:30:11</b>	<b>29/05/2023 16:30:12</b>	<b>Rejected</b>
<b>E5ab</b>	29/05/2023 16:30:12	29/05/2023 16:30:28	Used
	<b>29/05/2023 16:30:28</b>	<b>29/05/2023 16:32:19</b>	<b>No Data</b>
	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:11</b>	<b>No Data</b>
	29/05/2023 16:26:11	29/05/2023 16:29:41	Used
	<b>29/05/2023 16:29:41</b>	<b>29/05/2023 16:29:56</b>	<b>Rejected</b>
	29/05/2023 16:29:56	29/05/2023 16:30:11	Used
	<b>29/05/2023 16:30:11</b>	<b>29/05/2023 16:30:12</b>	<b>Rejected</b>
	29/05/2023 16:30:12	29/05/2023 16:30:41	Used
	<b>29/05/2023 16:30:41</b>	<b>29/05/2023 16:30:42</b>	<b>Rejected</b>
	29/05/2023 16:30:42	29/05/2023 16:31:09	Used
	<b>29/05/2023 16:31:09</b>	<b>29/05/2023 16:31:26</b>	<b>Rejected</b>
	29/05/2023 16:31:26	29/05/2023 16:31:29	Used
	<b>29/05/2023 16:31:29</b>	<b>29/05/2023 16:31:30</b>	<b>No Data</b>
	<b>29/05/2023 16:31:30</b>	<b>29/05/2023 16:31:36</b>	<b>Rejected</b>
29/05/2023 16:31:36	29/05/2023 16:31:39	Used	
<b>29/05/2023 16:31:39</b>	<b>29/05/2023 16:31:50</b>	<b>Rejected</b>	
<b>29/05/2023 16:31:50</b>	<b>29/05/2023 16:31:51</b>	<b>No Data</b>	
<b>29/05/2023 16:31:51</b>	<b>29/05/2023 16:32:03</b>	<b>Rejected</b>	
<b>29/05/2023 16:32:03</b>	<b>29/05/2023 16:32:19</b>	<b>No Data</b>	

E13

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:30:50</b>	<b>No Data</b>
	29/05/2023 16:30:50	29/05/2023 16:32:19	Used
<b>E5a</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:30:50</b>	<b>No Data</b>
	29/05/2023 16:30:50	29/05/2023 16:32:19	Used
<b>E5b</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:30:50</b>	<b>No Data</b>
	29/05/2023 16:30:50	29/05/2023 16:32:19	Used
<b>E5ab</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:30:50</b>	<b>No Data</b>
	29/05/2023 16:30:50	29/05/2023 16:32:19	Used

E19

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:19</b>	<b>No Data</b>
	<b>29/05/2023 16:26:19</b>	<b>29/05/2023 16:26:20</b>	<b>Rejected</b>
	29/05/2023 16:26:20	29/05/2023 16:26:25	Used
	<b>29/05/2023 16:26:25</b>	<b>29/05/2023 16:32:19</b>	<b>Rejected</b>
<b>E5a</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:20</b>	<b>No Data</b>
	29/05/2023 16:26:20	29/05/2023 16:26:25	Used
	<b>29/05/2023 16:26:25</b>	<b>29/05/2023 16:32:19</b>	<b>Rejected</b>
<b>E5b</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:20</b>	<b>No Data</b>
	29/05/2023 16:26:20	29/05/2023 16:26:25	Used
	<b>29/05/2023 16:26:25</b>	<b>29/05/2023 16:32:19</b>	<b>Rejected</b>
<b>E5ab</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:20</b>	<b>No Data</b>
	<b>29/05/2023 16:26:20</b>	<b>29/05/2023 16:26:26</b>	<b>Rejected</b>
	29/05/2023 16:26:26	29/05/2023 16:32:19	Used

E21

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>E5a</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>E5b</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>E5ab</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used

E27

Frequency	From Epoch	To Epoch	Status
<b>E1</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:10</b>	<b>No Data</b>
	29/05/2023 16:26:10	29/05/2023 16:32:19	Used
<b>E5a</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:10</b>	<b>No Data</b>
	29/05/2023 16:26:10	29/05/2023 16:32:19	Used
	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:10</b>	<b>No Data</b>

<b>E5b</b>	29/05/2023 16:26:10	29/05/2023 16:32:19	Used
<b>E5ab</b>	<b>29/05/2023 16:26:08</b>	<b>29/05/2023 16:26:10</b>	<b>No Data</b>
	29/05/2023 16:26:10	29/05/2023 16:32:19	Used

**C27**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B3</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B2a</b>	29/05/2023 16:26:08	29/05/2023 16:26:42	Used
	<b>29/05/2023 16:26:42</b>	<b>29/05/2023 16:26:44</b>	<b>Rejected</b>
	29/05/2023 16:26:44	29/05/2023 16:27:18	Used
	<b>29/05/2023 16:27:18</b>	<b>29/05/2023 16:27:20</b>	<b>Rejected</b>
	29/05/2023 16:27:20	29/05/2023 16:27:52	Used
	<b>29/05/2023 16:27:52</b>	<b>29/05/2023 16:27:54</b>	<b>Rejected</b>
	29/05/2023 16:27:54	29/05/2023 16:32:19	Used

**C28**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B3</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B2a</b>	29/05/2023 16:26:08	29/05/2023 16:26:42	Used
	<b>29/05/2023 16:26:42</b>	<b>29/05/2023 16:26:44</b>	<b>Rejected</b>
	29/05/2023 16:26:44	29/05/2023 16:27:18	Used
	<b>29/05/2023 16:27:18</b>	<b>29/05/2023 16:27:20</b>	<b>Rejected</b>
	29/05/2023 16:27:20	29/05/2023 16:27:52	Used
	<b>29/05/2023 16:27:52</b>	<b>29/05/2023 16:27:54</b>	<b>Rejected</b>
	29/05/2023 16:27:54	29/05/2023 16:32:19	Used

**C37**

Frequency	From Epoch	To Epoch	Status
<b>B1</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B3</b>	29/05/2023 16:26:08	29/05/2023 16:32:19	Used
<b>B2a</b>	29/05/2023 16:26:08	29/05/2023 16:26:42	Used
	<b>29/05/2023 16:26:42</b>	<b>29/05/2023 16:26:44</b>	<b>Rejected</b>
	29/05/2023 16:26:44	29/05/2023 16:27:18	Used
	<b>29/05/2023 16:27:18</b>	<b>29/05/2023 16:27:20</b>	<b>Rejected</b>
	29/05/2023 16:27:20	29/05/2023 16:27:52	Used
	<b>29/05/2023 16:27:52</b>	<b>29/05/2023 16:27:54</b>	<b>Rejected</b>
	29/05/2023 16:27:54	29/05/2023 16:32:19	Used

**Cycle Slips**

Slip Count: 62

SV	Frequency	Epoch	Slip Value	Flag		
G12	L1	29/05/2023 16:26:30	-	RIA		
		29/05/2023 16:26:50	-	Flagged		
		29/05/2023 16:26:52	-	Flagged		
		29/05/2023 16:27:02	-	RIA		
		29/05/2023 16:27:22	-	RIA		
		29/05/2023 16:27:32	-	RIA		
		29/05/2023 16:27:40	-	RIA		
		29/05/2023 16:28:08	-	Flagged		
		29/05/2023 16:28:12	-	RIA		
		29/05/2023 16:28:20	-	RIA		
		29/05/2023 16:28:22	-	RIA		
		29/05/2023 16:28:28	-	RIA		
		29/05/2023 16:28:30	-	RIA		
		29/05/2023 16:28:36	-	RIA		
		29/05/2023 16:28:50	-	Flagged		
		29/05/2023 16:29:04	-	Flagged		
		29/05/2023 16:29:06	-	Flagged		
		29/05/2023 16:29:08	-	RIA		
		29/05/2023 16:29:16	-	RIA		
		29/05/2023 16:29:24	-	RIA		
		29/05/2023 16:29:38	-	Flagged		
				29/05/2023 16:29:00	-	RIA
				29/05/2023 16:29:32	-	RIA
				29/05/2023 16:27:02	-	RIA



	L2	29/05/2023 16:27:32	-	RIA
		29/05/2023 16:27:40	-	RIA
		29/05/2023 16:28:22	-	RIA
		29/05/2023 16:28:28	-	RIA
		29/05/2023 16:28:30	-	RIA
		29/05/2023 16:29:08	-	RIA
		29/05/2023 16:29:16	-	RIA
E07	E1	29/05/2023 16:29:42	-	RIA
		29/05/2023 16:29:48	-	RIA
		29/05/2023 16:29:50	-	RIA
	E5a	29/05/2023 16:29:42	-	RIA
		29/05/2023 16:29:48	-	RIA
		29/05/2023 16:29:50	-	RIA
		29/05/2023 16:29:56	-	RIA
		29/05/2023 16:30:30	-	RIA
		29/05/2023 16:30:42	1.0000000000	Flagged
		29/05/2023 16:30:46	-	RIA
	E5b	29/05/2023 16:29:42	-	RIA
		29/05/2023 16:29:48	-	RIA
		29/05/2023 16:29:50	-	RIA
		29/05/2023 16:29:56	-	RIA
		29/05/2023 16:30:10	-	Flagged
		29/05/2023 16:30:12	-	RIA
	E5ab	29/05/2023 16:29:42	-	RIA
		29/05/2023 16:29:48	-	RIA
		29/05/2023 16:29:50	-	RIA
		29/05/2023 16:29:56	-	RIA
		29/05/2023 16:30:10	-	Flagged
		29/05/2023 16:30:12	-	RIA
		29/05/2023 16:30:30	-	RIA
		29/05/2023 16:30:42	-	Flagged
		29/05/2023 16:31:18	-	RIA
		29/05/2023 16:31:26	-	RIA
		29/05/2023 16:31:36	-	Flagged
		29/05/2023 16:31:40	-	RIA
29/05/2023 16:31:48	-	RIA		
29/05/2023 16:31:58	-	RIA		
E19	E5ab	29/05/2023 16:26:26	-	RIA

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

## Processing Messages

### Warning

Missing orbits for satellite R22.

Missing orbits for satellite R23.

No valid ephemeris for satellite coordinate calculation R24 between 29/05/2023 15:59:42 and 29/05/2023 16:59:42.

Missing orbits for satellite R06.

Missing orbits for satellite R10.

No position available PAF-CU2-14E between 29/05/2023 16:26:05 and 29/05/2023 16:26:07

The DOP values exceeded a critical limit.

## Baseline MOQ01058 - PAF-CU2-17E

### Processing Parameters (29/05/2023 16:47:36 - 29/05/2023 16:53:34)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

### Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere:	Automatic	Automatic

Minimised:  
Tropospheric Model: VMF with GPT2 model VMF with GPT2 model  
Ionospheric Model: Automatic None  
Allow Widelane Fix: Automatic Automatic

**General Settings**

Min. Distance for Iono Minimised: 15 km  
Possible Ambiguities Fix up to: 300 km  
Min. Duration for Float Solution (static): 00:05:00

**Time Settings**

Time Format: HH:mm:ss  
Time System: Local Time  
Leap Seconds: 18

**Results Baseline: MOQ01058 - PAF-CU2-17E**

**Acquisition**

Start Time - End Time: 29/05/2023 16:47:36 - 29/05/2023 16:53:34  
Duration: 00:05:58

**Antennas**

	Reference - MOQ01058	Rover - PAF-CU2-17E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607824
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

**Phase Center Offset**

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

**Coordinates**

	Reference - MOQ01058	Rover - PAF-CU2-17E	Reference - MOQ01058	Rover - PAF-CU2-17E
Point Role:	Control	Fixed PP		
WGS84 Latitude:	-	17° 02' 39.12027" S	Easting:	318,107.441 m 318,088.875 m
WGS84 Longitude:	-	70° 42' 33.07091" W	Northing:	8,117,307.121 m 8,114,759.861 m
WGS84 Ellip. Height:	-	3,039.095 m	Ortho. Height:	3,897.429 m 2,997.780 m
WGS84 Cartesian X:	-	2,016,094.241 m		
WGS84 Cartesian Y:	-	-5,760,021.829 m		
WGS84 Cartesian Z:	-	-1,858,401.504 m		

**Baseline Vector and Quality - WGS84**

ΔLatitude:	-0° 01' 22.85125"	SD ΔLatitude:	0.000 m
ΔLongitude:	-0° 00' 01.38046"	SD ΔLongitude:	0.000 m
ΔHeight:	-899.816 m	SD ΔHeight:	0.001 m
ΔX:	-569.392 m	SD ΔX:	0.000 m
ΔY:	1,503.099 m	SD ΔY:	0.000 m
ΔZ:	-2,173.029 m	SD ΔZ:	0.000 m
Slope Dist.:	2,702.882 m	SD Slope Dist.:	0.000 m

M0:	0.441 m	CQ 1D:	0.001 m
Q11:	0.00000030	CQ 2D:	0.000 m
Q12:	-0.00000042	CQ 3D:	0.001 m
Q22:	0.00000109		
Q13:	-0.00000012		
Q23:	0.00000023		
Q33:	0.00000013		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.3 - 4.1	GPS SVs:	6/6
Solution Optimisation:	None	PDOP:	2.0 - 2.4	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.7 - 0.8	Beidou SVs:	5/5
		VDOP:	1.9 - 2.3	Galileo SVs:	3/3
				QZSS SVs:	-

Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

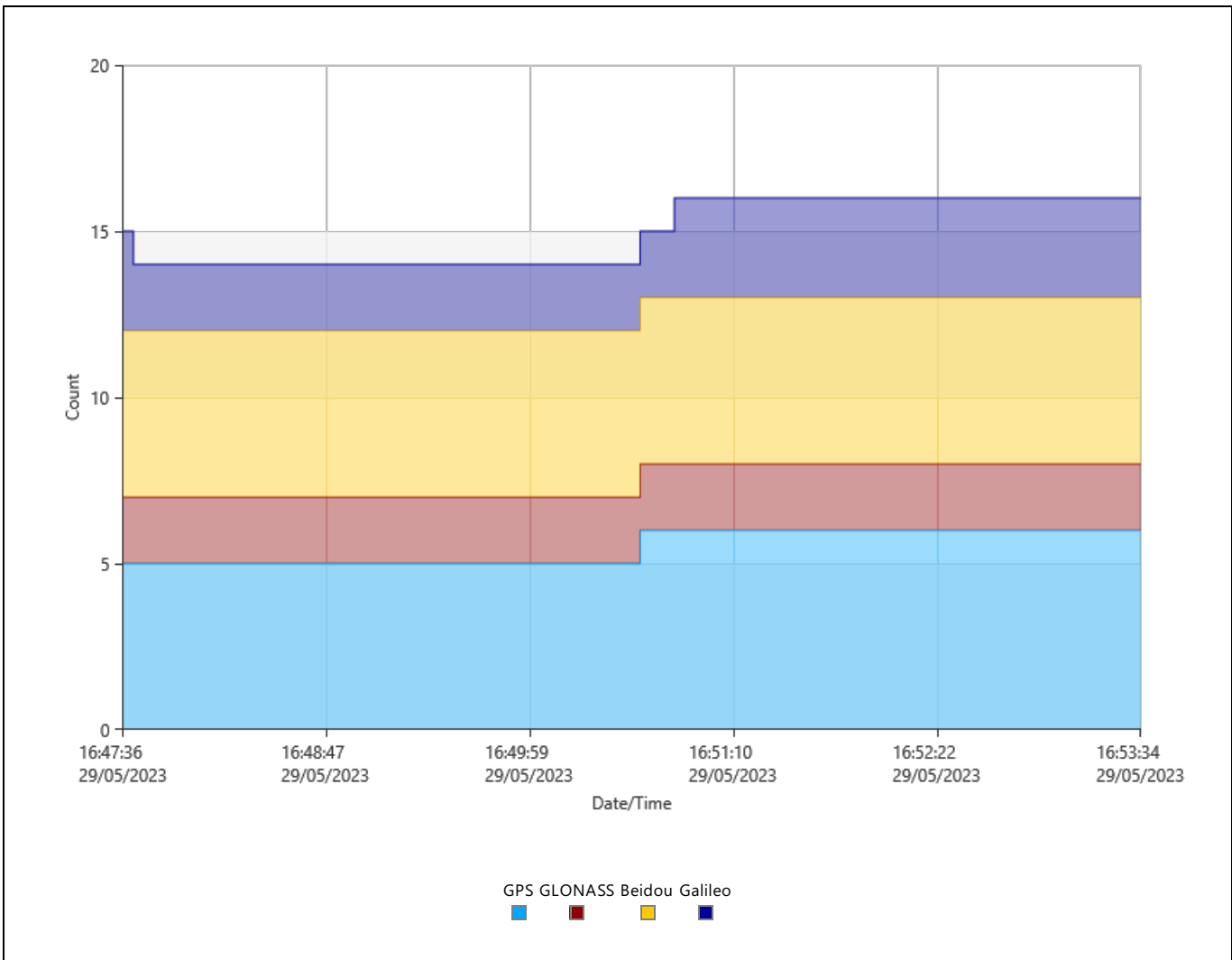
### Processing Info (29/05/2023 16:47:36 - 29/05/2023 16:53:34)

Processed Date/Time: 09/06/2023 17:54:21

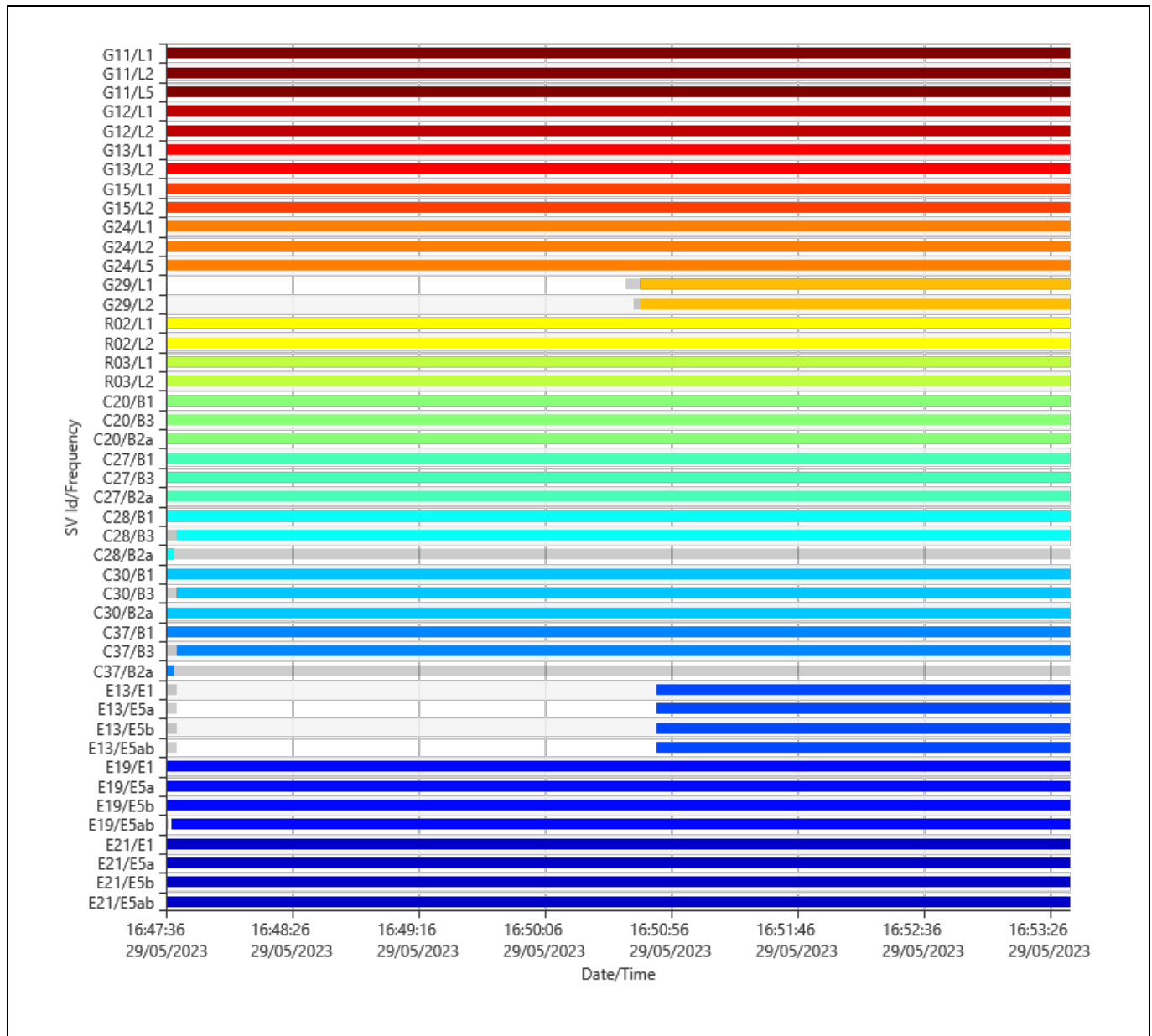
### Satellites

Satellite System	Used	Manually Disabled
GPS	G11 G12 G13 G15 G24 G29	-
GLONASS	R02 R03	-
Beidou	C20 C27 C28 C30 C37	-
Galileo	E13 E19 E21	-

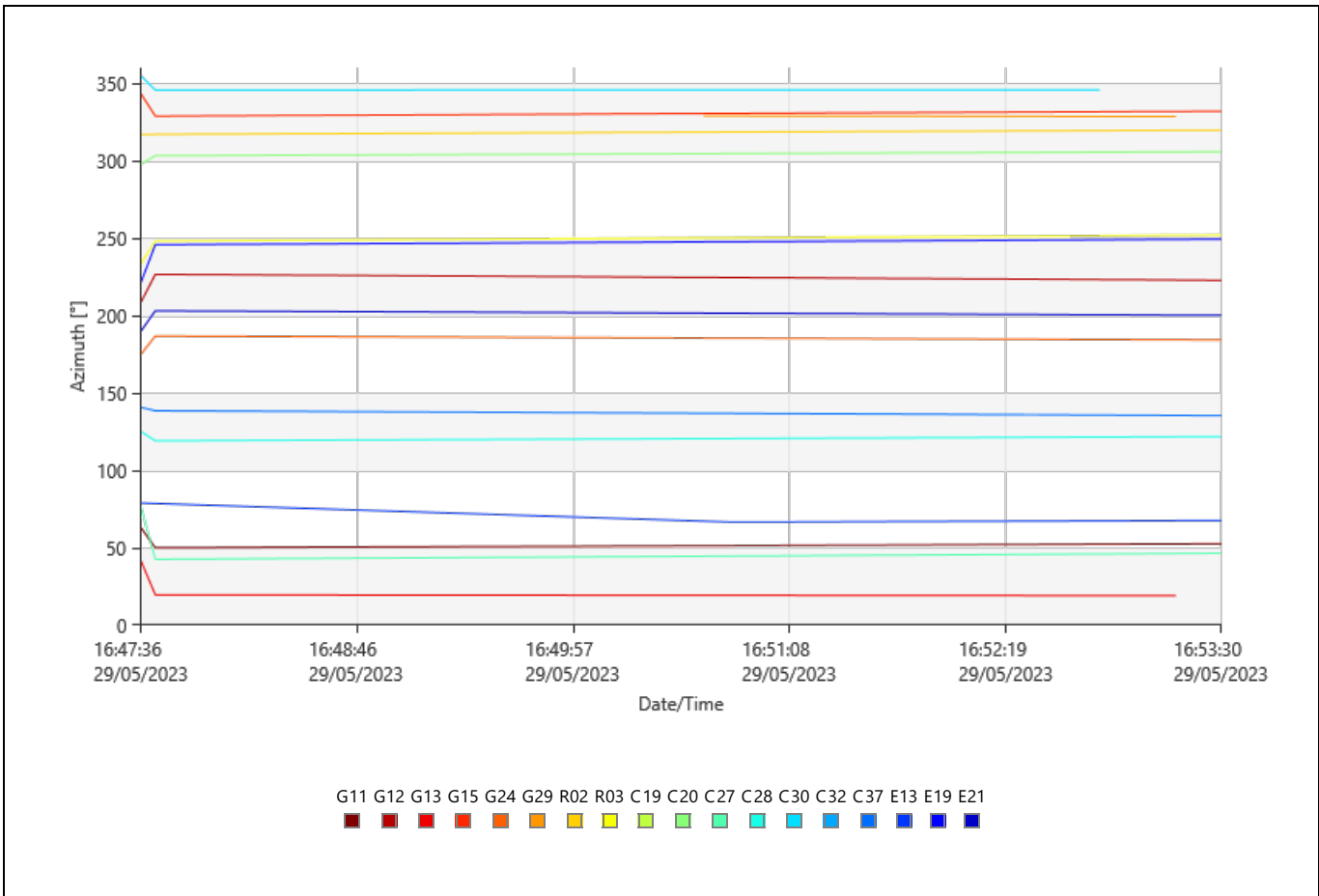
### SVs Tracked



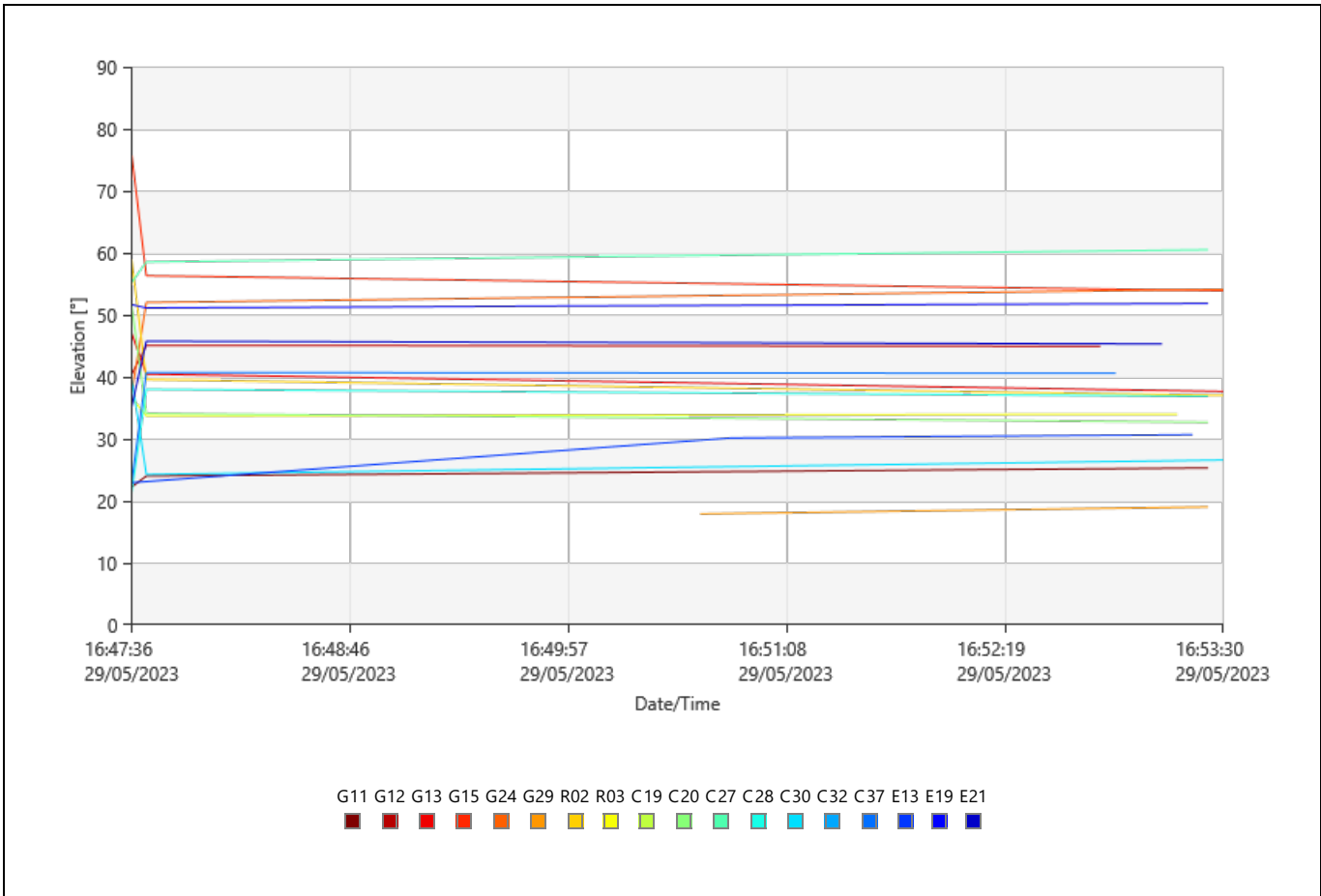
Signals Tracked



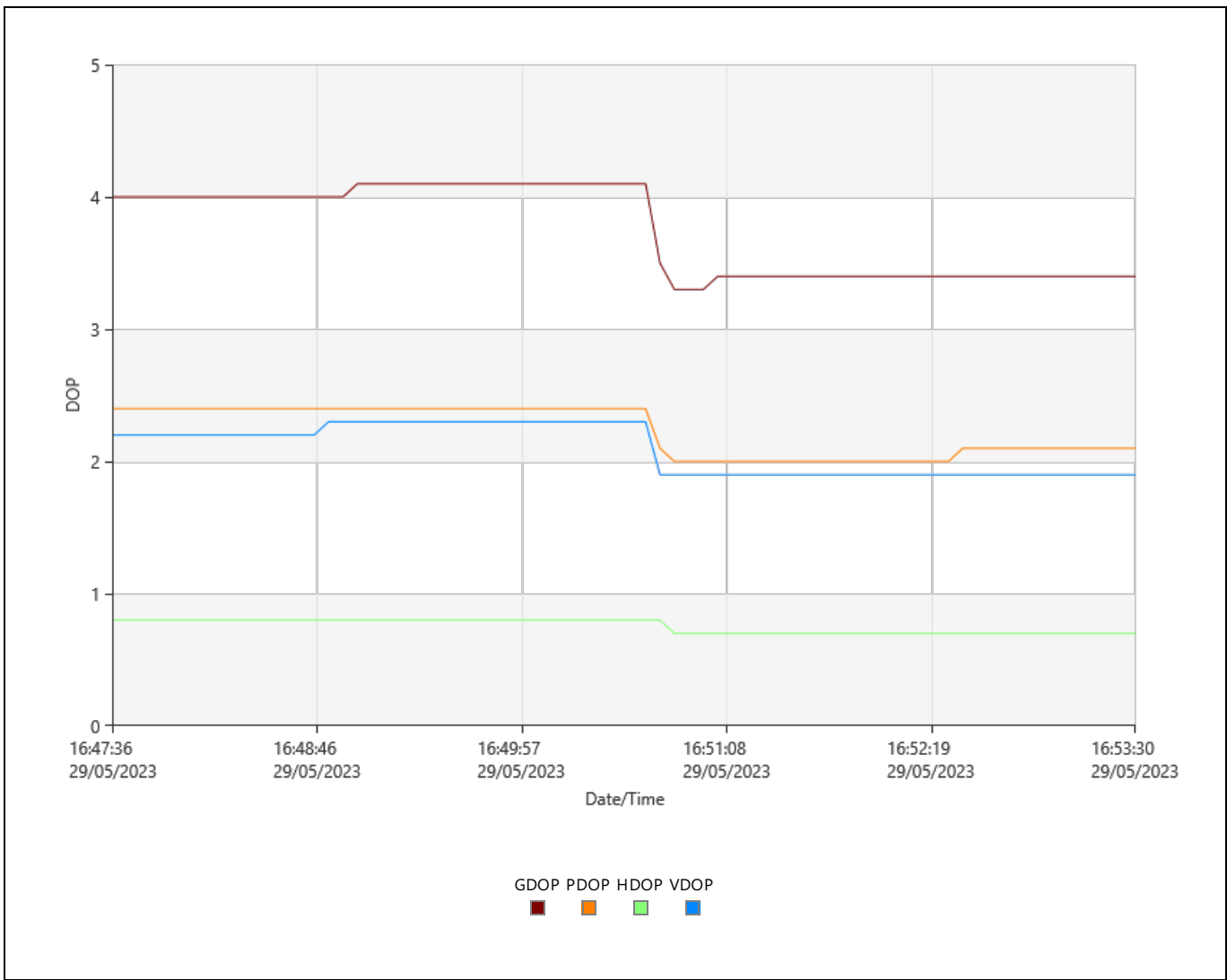
Azimuth



**Elevation**



**DOP**



### Observation Statistics

Common Epochs: 359

#### GPS Observations

Frequency	Used	Rejected
L1	1,966	6
L2	1,966	3
L5	718	0

#### GLONASS Observations

Frequency	Used	Rejected
L1	718	0
L2	718	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,795	0
B3	1,783	12
B2a	1,083	712

#### Galileo Observations

Frequency	Used	Rejected
E1	883	4
E5a	883	4
E5b	883	4
E5ab	881	5

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	14	4	15	12
Total	14	4	15	17
Independently fixed	45	45	45	45
Possible independently fixed	45	45	45	45

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou			Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	B3 [%]	B2a [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	99.55	99.55	99.55	99.43
Not fixed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45	0.45	0.57
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 16:47:36	29/05/2023 16:53:34	00:05:58

## Residuals

### Tracking Status

#### G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L5	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L5	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### G29

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:50:38	No Data
	29/05/2023 16:50:38	29/05/2023 16:50:44	Rejected
	29/05/2023 16:50:44	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:50:41	No Data
	29/05/2023 16:47:36	29/05/2023 16:50:43	No Data
	29/05/2023 16:50:41	29/05/2023 16:50:43	Rejected
	29/05/2023 16:50:43	29/05/2023 16:50:44	Rejected
	29/05/2023 16:50:44	29/05/2023 16:53:34	Used
	29/05/2023 16:50:43	29/05/2023 16:53:34	No Data

#### R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### R03

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
L2	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:50:50	No Data
	29/05/2023 16:50:50	29/05/2023 16:53:34	Used
E5a	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:50:50	No Data
	29/05/2023 16:50:50	29/05/2023 16:53:34	Used
E5b	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:50:50	No Data
	29/05/2023 16:50:50	29/05/2023 16:53:34	Used

E5ab	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:50:50	No Data
	29/05/2023 16:50:50	29/05/2023 16:53:34	Used

#### E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5a	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5b	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5ab	29/05/2023 16:47:36	29/05/2023 16:47:37	Rejected
	29/05/2023 16:47:37	29/05/2023 16:47:38	No Data
	29/05/2023 16:47:38	29/05/2023 16:53:34	Used

#### E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5a	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5b	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
E5ab	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B3	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B2a	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B3	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B2a	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### C28

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B3	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:53:34	Used
B2a	29/05/2023 16:47:36	29/05/2023 16:47:39	Used
	29/05/2023 16:47:39	29/05/2023 16:53:34	Rejected

#### C30

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B3	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:53:34	Used
B2a	29/05/2023 16:47:36	29/05/2023 16:53:34	Used

#### C37

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:47:36	29/05/2023 16:53:34	Used
B3	29/05/2023 16:47:36	29/05/2023 16:47:40	Rejected
	29/05/2023 16:47:40	29/05/2023 16:53:34	Used
B2a	29/05/2023 16:47:36	29/05/2023 16:47:39	Used
	29/05/2023 16:47:39	29/05/2023 16:53:34	Rejected

### Cycle Slips

Slip Count: 0

### Processing Messages

#### Warning

Missing orbits for satellite R22.  
Missing orbits for satellite R23.  
No valid ephemeris for satellite coordinate calculation R24 between 29/05/2023 15:59:42 and 29/05/2023 16:59:42.  
Missing orbits for satellite R06.  
Missing orbits for satellite R10.



# Baseline MOQ01058 - PAF-CU2-16E

Processing Parameters (29/05/2023 16:49:32 - 29/05/2023 16:57:11)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

## Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

## General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

## Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-16E

### Acquisition

Start Time - End Time:	29/05/2023 16:49:32 - 29/05/2023 16:57:11
Duration:	00:07:39

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-16E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

Reference - MOQ01058 Rover - PAF-CU2-16E

Reference - MOQ01058 Rover - PAF-CU2-16E

Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 35.58793" S	Easting:	318,107.441 m	318,309.398 m
WGS84 Longitude:	-	70° 42' 25.58157" W	Northing:	8,117,307.121 m	8,114,870.384 m
WGS84 Ellip. Height:	-	3,023.782 m	Ortho. Height:	3,897.429 m	2,982.439 m
WGS84 Cartesian X:	-	2,016,309.066 m			
WGS84 Cartesian Y:	-	-5,759,964.859 m			
WGS84 Cartesian Z:	-	-1,858,293.145 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 19.31891"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 06.10887"	SD ΔLongitude:	0.000 m
ΔHeight:	-915.129 m	SD ΔHeight:	0.000 m
ΔX:	-354.567 m	SD ΔX:	0.000 m
ΔY:	1,560.070 m	SD ΔY:	0.000 m
ΔZ:	-2,064.670 m	SD ΔZ:	0.000 m
Slope Dist.:	2,611.972 m	SD Slope Dist.:	0.000 m

M0:	0.397 m	CQ 1D:	0.000 m
Q11:	0.00000018	CQ 2D:	0.000 m
Q12:	-0.00000019	CQ 3D:	0.000 m
Q22:	0.00000105		
Q13:	-0.00000006		
Q23:	0.00000024		
Q33:	0.00000012		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.1 - 4.6	GPS SVs:	6/6
Solution Optimisation:	None	PDOP:	1.9 - 2.7	GLONASS SVs:	3/3
Solution Type:	Phase Fixed	HDOP:	0.7 - 1.0	Beidou SVs:	4/4
		VDOP:	1.7 - 2.5	Galileo SVs:	3/3
				QZSS SVs:	-

#### Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

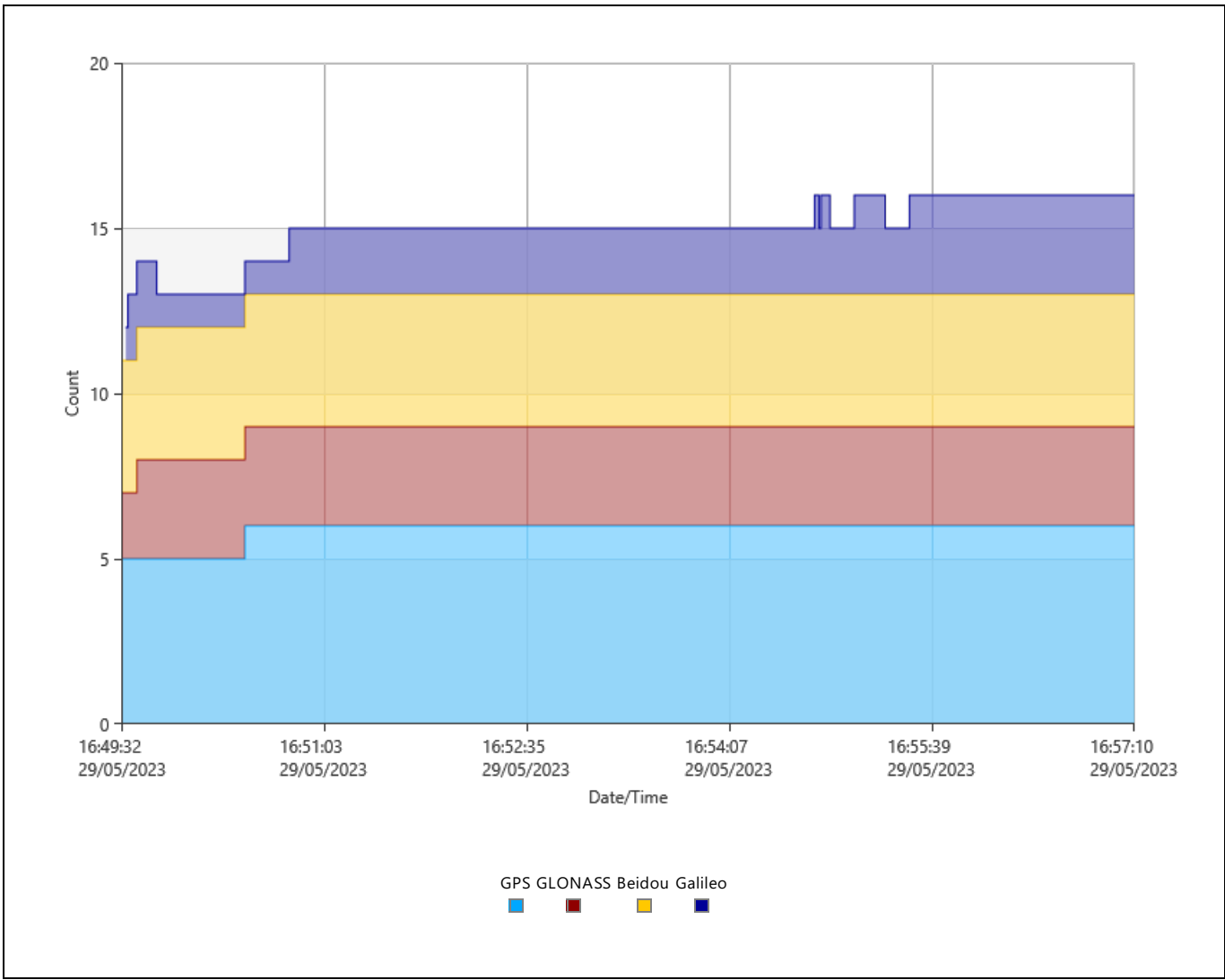
### Processing Info (29/05/2023 16:49:32 - 29/05/2023 16:57:11)

Processed Date/Time: 09/06/2023 17:54:21

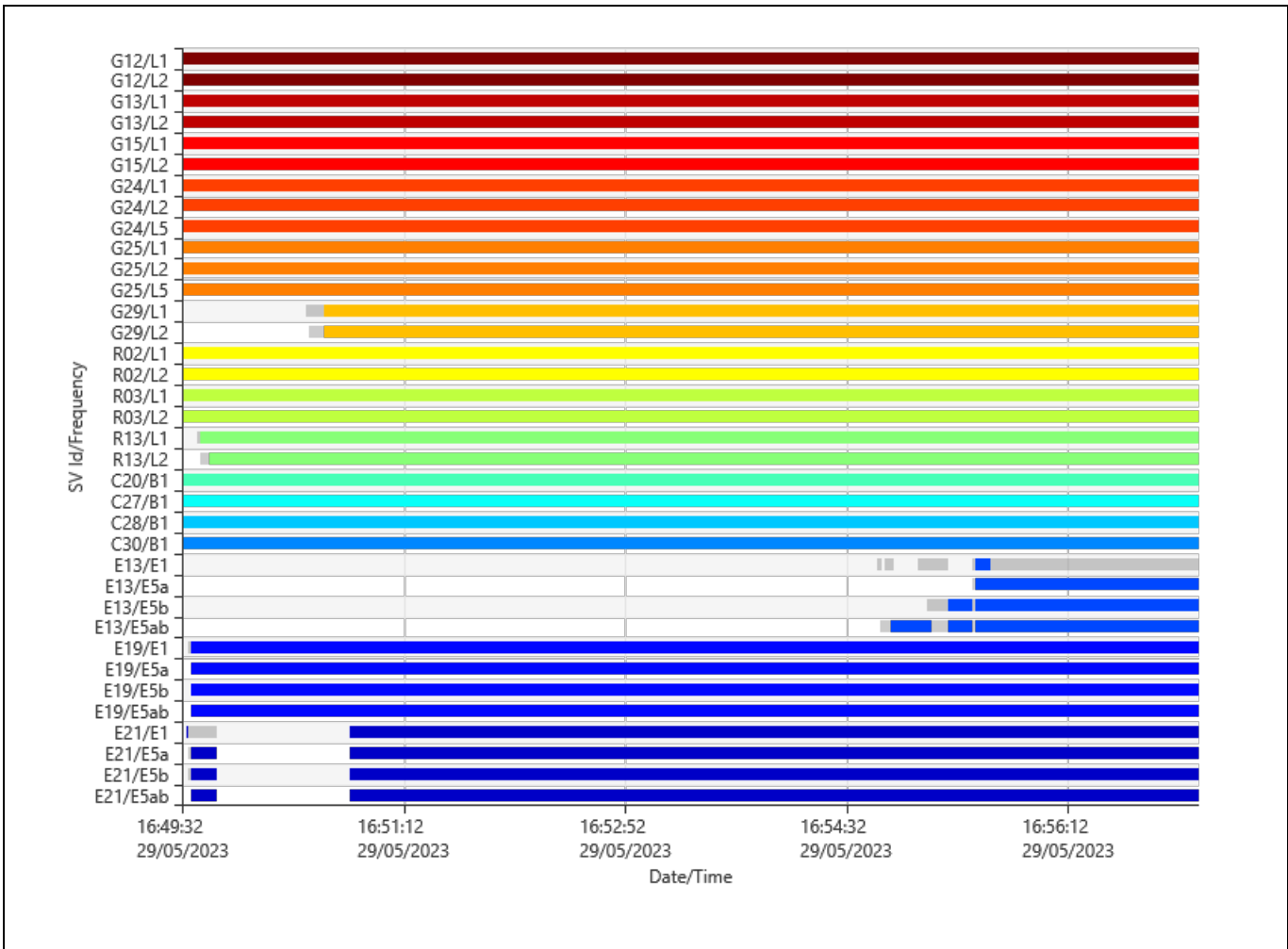
### Satellites

Satellite System	Used	Manually Disabled
GPS	G12 G13 G15 G24 G25 G29	-
GLONASS	R02 R03 R13	-
Beidou	C20 C27 C28 C30	-
Galileo	E13 E19 E21	-

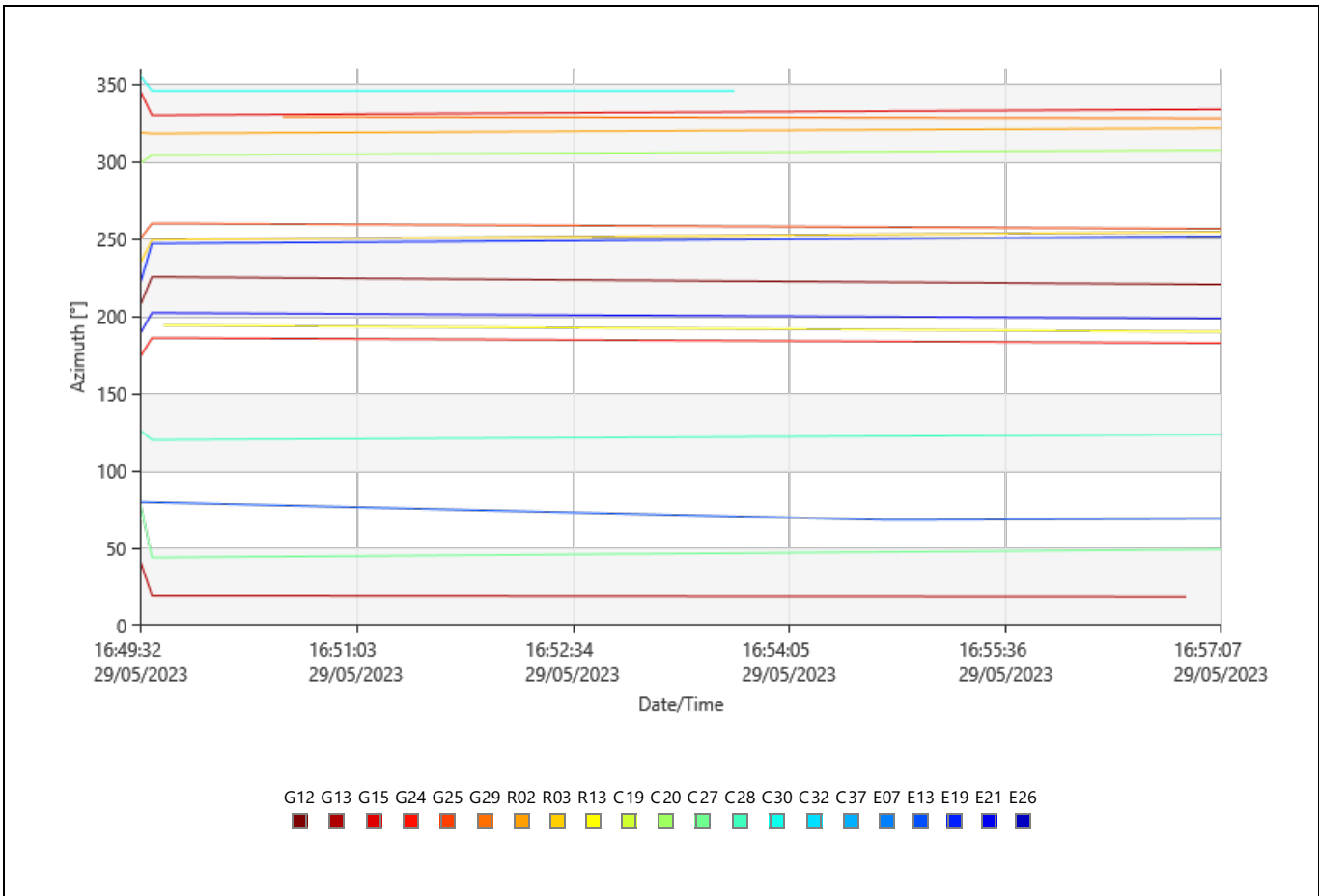
### SVs Tracked



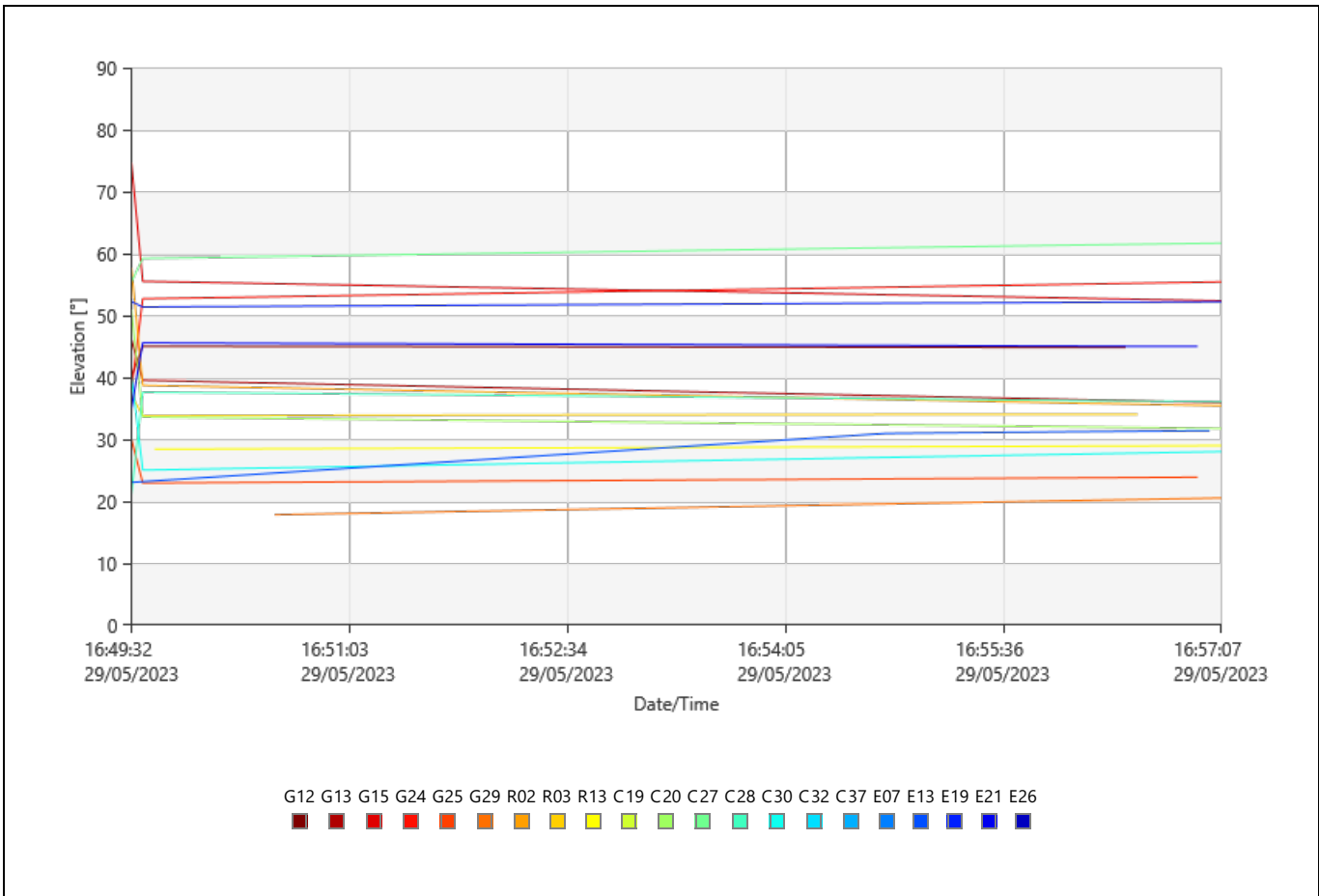
**Signals Tracked**



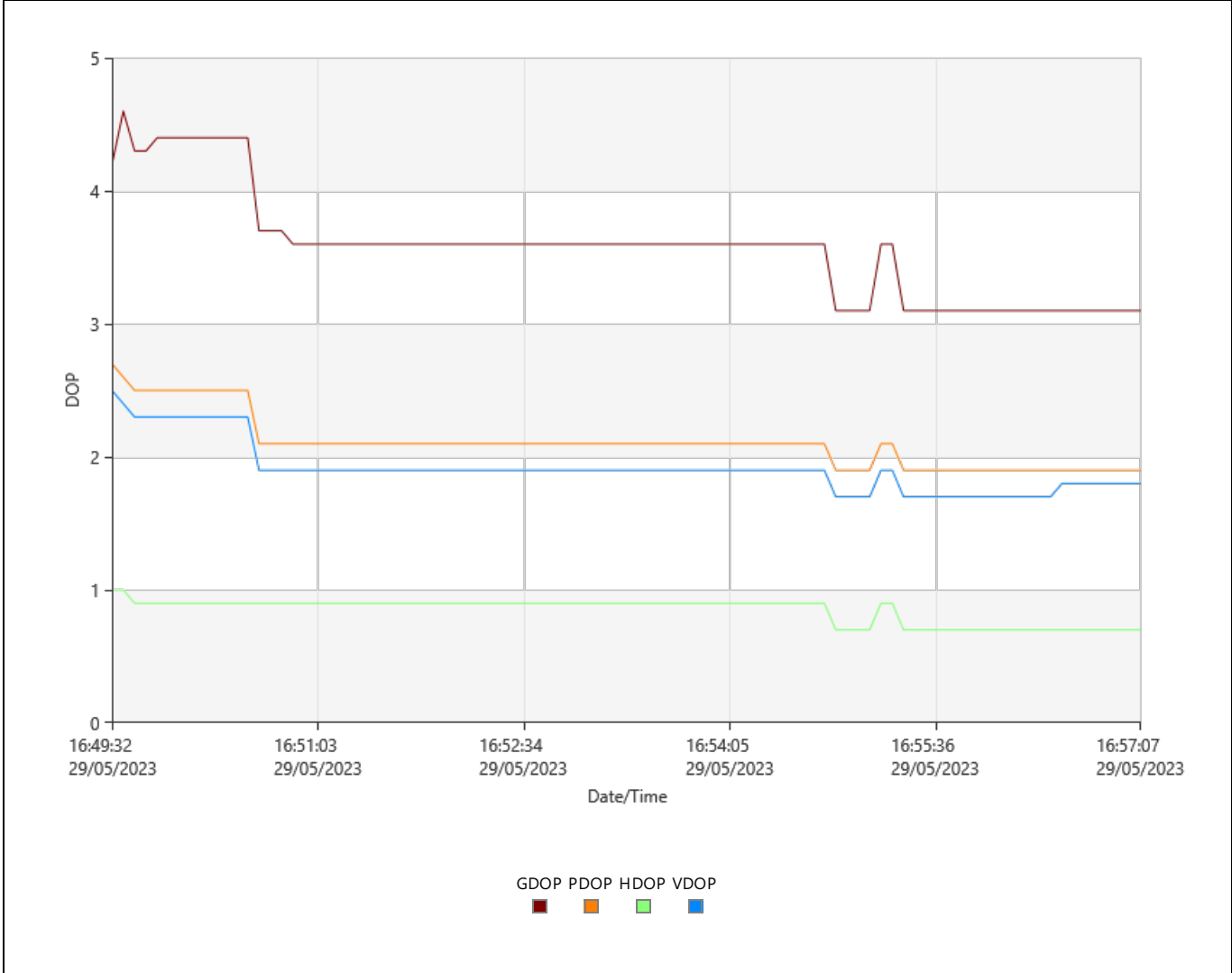
**Azimuth**



**Elevation**



**DOP**



## Observation Statistics

Common Epochs: 460

### GPS Observations

Frequency	Used	Rejected
L1	2,696	8
L2	2,696	7
L5	920	0

### GLONASS Observations

Frequency	Used	Rejected
L1	1,372	1
L2	1,368	4

### Beidou Observations

Frequency	Used	Rejected
B1	1,840	0

### Galileo Observations

Frequency	Used	Rejected
E1	848	130
E5a	954	2
E5b	965	12
E5ab	983	14

## Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	14	6	4	17
Total	16	6	4	23
Independently fixed	57	57	57	57
Possible independently fixed	57	57	57	57

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	99.85	99.93	100.00	100.00	100.00	100.00	97.94	100.00	98.97	98.79
Not fixed	0.15	0.07	0.00	0.00	0.00	0.00	2.06	0.00	1.03	1.21
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 16:49:32	29/05/2023 16:57:11	00:07:39

## Residuals

## Tracking Status

### G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

### G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

### G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

### G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L5	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

### G25

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L5	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

## G29

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:50:28	No Data
	29/05/2023 16:50:28	29/05/2023 16:50:36	Rejected
	29/05/2023 16:50:36	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:50:29	No Data
	29/05/2023 16:49:32	29/05/2023 16:50:34	No Data
	29/05/2023 16:50:29	29/05/2023 16:50:34	Rejected
	29/05/2023 16:50:34	29/05/2023 16:50:36	Rejected
	29/05/2023 16:50:36	29/05/2023 16:57:11	Used
	29/05/2023 16:50:34	29/05/2023 16:57:11	No Data

## R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

## R03

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

## R13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 16:49:32	29/05/2023 16:49:39	No Data
	29/05/2023 16:49:39	29/05/2023 16:49:40	Rejected
	29/05/2023 16:49:40	29/05/2023 16:57:11	Used
L2	29/05/2023 16:49:32	29/05/2023 16:49:40	No Data
	29/05/2023 16:49:40	29/05/2023 16:49:44	Rejected
	29/05/2023 16:49:44	29/05/2023 16:57:11	Used

## E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:49:32	29/05/2023 16:54:46	No Data
	29/05/2023 16:54:46	29/05/2023 16:54:48	Rejected
	29/05/2023 16:54:48	29/05/2023 16:54:49	No Data
	29/05/2023 16:54:49	29/05/2023 16:54:53	Rejected
	29/05/2023 16:54:53	29/05/2023 16:55:04	No Data
	29/05/2023 16:55:04	29/05/2023 16:55:18	Rejected
	29/05/2023 16:55:18	29/05/2023 16:55:29	No Data
	29/05/2023 16:55:29	29/05/2023 16:55:30	Rejected
	29/05/2023 16:55:30	29/05/2023 16:55:37	Used
E5a	29/05/2023 16:55:37	29/05/2023 16:57:11	Rejected
	29/05/2023 16:49:32	29/05/2023 16:55:29	No Data
	29/05/2023 16:55:29	29/05/2023 16:55:30	Rejected
E5b	29/05/2023 16:55:30	29/05/2023 16:57:11	Used
	29/05/2023 16:49:32	29/05/2023 16:55:08	No Data
	29/05/2023 16:55:08	29/05/2023 16:55:18	Rejected
	29/05/2023 16:55:18	29/05/2023 16:55:29	Used
	29/05/2023 16:55:29	29/05/2023 16:55:30	Rejected
E5ab	29/05/2023 16:55:30	29/05/2023 16:57:11	Used
	29/05/2023 16:49:32	29/05/2023 16:54:47	No Data
	29/05/2023 16:54:47	29/05/2023 16:54:52	Rejected
	29/05/2023 16:54:52	29/05/2023 16:55:10	Used
	29/05/2023 16:55:10	29/05/2023 16:55:18	Rejected
	29/05/2023 16:55:18	29/05/2023 16:55:29	Used
	29/05/2023 16:55:29	29/05/2023 16:55:30	Rejected
29/05/2023 16:55:30	29/05/2023 16:57:11	Used	

## E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:49:32	29/05/2023 16:49:35	No Data
	29/05/2023 16:49:35	29/05/2023 16:49:36	Rejected
	29/05/2023 16:49:36	29/05/2023 16:57:11	Used
E5a	29/05/2023 16:49:32	29/05/2023 16:49:36	No Data
	29/05/2023 16:49:36	29/05/2023 16:57:11	Used
E5b	29/05/2023 16:49:32	29/05/2023 16:49:36	No Data
	29/05/2023 16:49:36	29/05/2023 16:57:11	Used
E5ab	29/05/2023 16:49:32	29/05/2023 16:49:36	No Data

	29/05/2023 16:49:36	29/05/2023 16:57:11	Used
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**E21**

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 16:49:32	29/05/2023 16:49:34	No Data
	29/05/2023 16:49:34	29/05/2023 16:49:35	Used
	29/05/2023 16:49:35	29/05/2023 16:49:48	Rejected
	29/05/2023 16:49:48	29/05/2023 16:50:48	No Data
	29/05/2023 16:50:48	29/05/2023 16:57:11	Used
E5a	29/05/2023 16:49:32	29/05/2023 16:49:35	No Data
	29/05/2023 16:49:35	29/05/2023 16:49:36	Rejected
	29/05/2023 16:49:36	29/05/2023 16:49:48	Used
	29/05/2023 16:49:48	29/05/2023 16:50:48	No Data
	29/05/2023 16:50:48	29/05/2023 16:57:11	Used
E5b	29/05/2023 16:49:32	29/05/2023 16:49:35	No Data
	29/05/2023 16:49:35	29/05/2023 16:49:36	Rejected
	29/05/2023 16:49:36	29/05/2023 16:49:48	Used
	29/05/2023 16:49:48	29/05/2023 16:50:48	No Data
	29/05/2023 16:50:48	29/05/2023 16:57:11	Used
E5ab	29/05/2023 16:49:32	29/05/2023 16:49:36	No Data
	29/05/2023 16:49:36	29/05/2023 16:49:48	Used
	29/05/2023 16:49:48	29/05/2023 16:50:48	No Data
	29/05/2023 16:50:48	29/05/2023 16:57:11	Used

**C20**

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

**C27**

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

**C28**

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

**C30**

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 16:49:32	29/05/2023 16:57:11	Used

**Cycle Slips**

Slip Count: 11

SV	Frequency	Epoch	Slip Value	Flag
G29	L1	29/05/2023 16:50:36	-	RIA
	L2	29/05/2023 16:50:36	-	RIA
E13	E1	29/05/2023 16:54:52	-	RIA
		29/05/2023 16:55:10	-	RIA
	E5b	29/05/2023 16:55:10	-	RIA
		29/05/2023 16:55:18	-	RIA
		29/05/2023 16:55:30	-	Flagged
	E5ab	29/05/2023 16:54:52	-	RIA
		29/05/2023 16:55:10	-	RIA
		29/05/2023 16:55:18	-	RIA
		29/05/2023 16:55:30	-	Flagged

**UCS:** Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.

**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.

**Flagged:** The cycle slip was flagged in the data.

**Processing Messages**

**Warning**

- Missing orbits for satellite R22.
- Missing orbits for satellite R23.
- No valid ephemeris for satellite coordinate calculation R24 between 29/05/2023 15:59:42 and 29/05/2023 16:59:42.
- Missing orbits for satellite R06.
- Missing orbits for satellite R10.



# Baseline MOQ01058 - PAF-CU2-18E

Processing Parameters (29/05/2023 17:02:32 - 29/05/2023 17:08:08)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	
Sampling Rate:	Use All	1.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS/Galileo/Beidou	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	NGS Absolute	NGS Absolute	

## Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionosphere Minimised:	Automatic	Automatic
Tropospheric Model:	VMF with GPT2 model	VMF with GPT2 model
Ionospheric Model:	Automatic	None
Allow Widelane Fix:	Automatic	Automatic

## General Settings

Min. Distance for Ionosphere Minimised:	15 km
Possible Ambiguities Fix up to:	300 km
Min. Duration for Float Solution (static):	00:05:00

## Time Settings

Time Format:	HH:mm:ss
Time System:	Local Time
Leap Seconds:	18

## Results Baseline: MOQ01058 - PAF-CU2-18E

### Acquisition

Start Time - End Time:	29/05/2023 17:02:32 - 29/05/2023 17:08:08
Duration:	00:05:36

### Antennas

	Reference - MOQ01058	Rover - PAF-CU2-18E
Receiver Name / SN:	LEICA GS18 / 3607811	LEICA GS18 / 3607618
Antenna Name / SN:	LEIGS18 / -	LEIGS18 / -
Carrier Offset:	0.000 m	0.000 m
Height Reading:	1.454 m	2.000 m
Antenna Height:	1.454 m	2.000 m

### Phase Center Offset

GPS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

GLONASS	Reference - LEIGS18		Rover - LEIGS18	
	L1	L2	L1	L2
East	0.000 m	0.002 m	0.000 m	0.002 m
North	-0.001 m	0.000 m	-0.001 m	0.000 m
Up	0.100 m	0.107 m	0.100 m	0.107 m

### Coordinates

Reference - MOQ01058 Rover - PAF-CU2-18E

Reference - MOQ01058 Rover - PAF-CU2-18E

Point Role:	Control	Fixed PP			
WGS84 Latitude:	-	17° 02' 43.93231" S	Easting:	318,107.441 m	318,417.989 m
WGS84 Longitude:	-	70° 42' 21.98518" W	Northing:	8,117,307.121 m	8,114,614.801 m
WGS84 Ellip. Height:	-	3,053.461 m	Ortho. Height:	3,897.429 m	3,012.126 m
WGS84 Cartesian X:	-	2,016,394.015 m			
WGS84 Cartesian Y:	-	-5,759,885.484 m			
WGS84 Cartesian Z:	-	-1,858,547.215 m			

### Baseline Vector and Quality - WGS84

ΔLatitude:	-0° 01' 27.66329"	SD ΔLatitude:	0.000 m
ΔLongitude:	0° 00' 09.70526"	SD ΔLongitude:	0.000 m
ΔHeight:	-885.450 m	SD ΔHeight:	0.001 m
ΔX:	-269.617 m	SD ΔX:	0.000 m
ΔY:	1,639.444 m	SD ΔY:	0.001 m
ΔZ:	-2,318.740 m	SD ΔZ:	0.000 m
Slope Dist.:	2,852.547 m	SD Slope Dist.:	0.000 m

M0:	0.456 m	CQ 1D:	0.001 m
Q11:	0.00000023	CQ 2D:	0.000 m
Q12:	-0.00000026	CQ 3D:	0.001 m
Q22:	0.00000125		
Q13:	-0.00000006		
Q23:	0.00000017		
Q33:	0.00000011		

Frequency:	L1/E1/B1/L2/B2/L5/E5a/B3/E5b/E5ab/B2a	GDOP:	3.8 - 6.2	GPS SVs:	7/7
Solution Optimisation:	None	PDOP:	2.2 - 3.9	GLONASS SVs:	2/2
Solution Type:	Phase Fixed	HDOP:	0.9 - 1.7	Beidou SVs:	3/3
		VDOP:	2.0 - 3.5	Galileo SVs:	3/3
				QZSS SVs:	-

### Ephemeris Type:

GPS	Precise
GLONASS	Precise
Beidou	Precise
Galileo	Precise

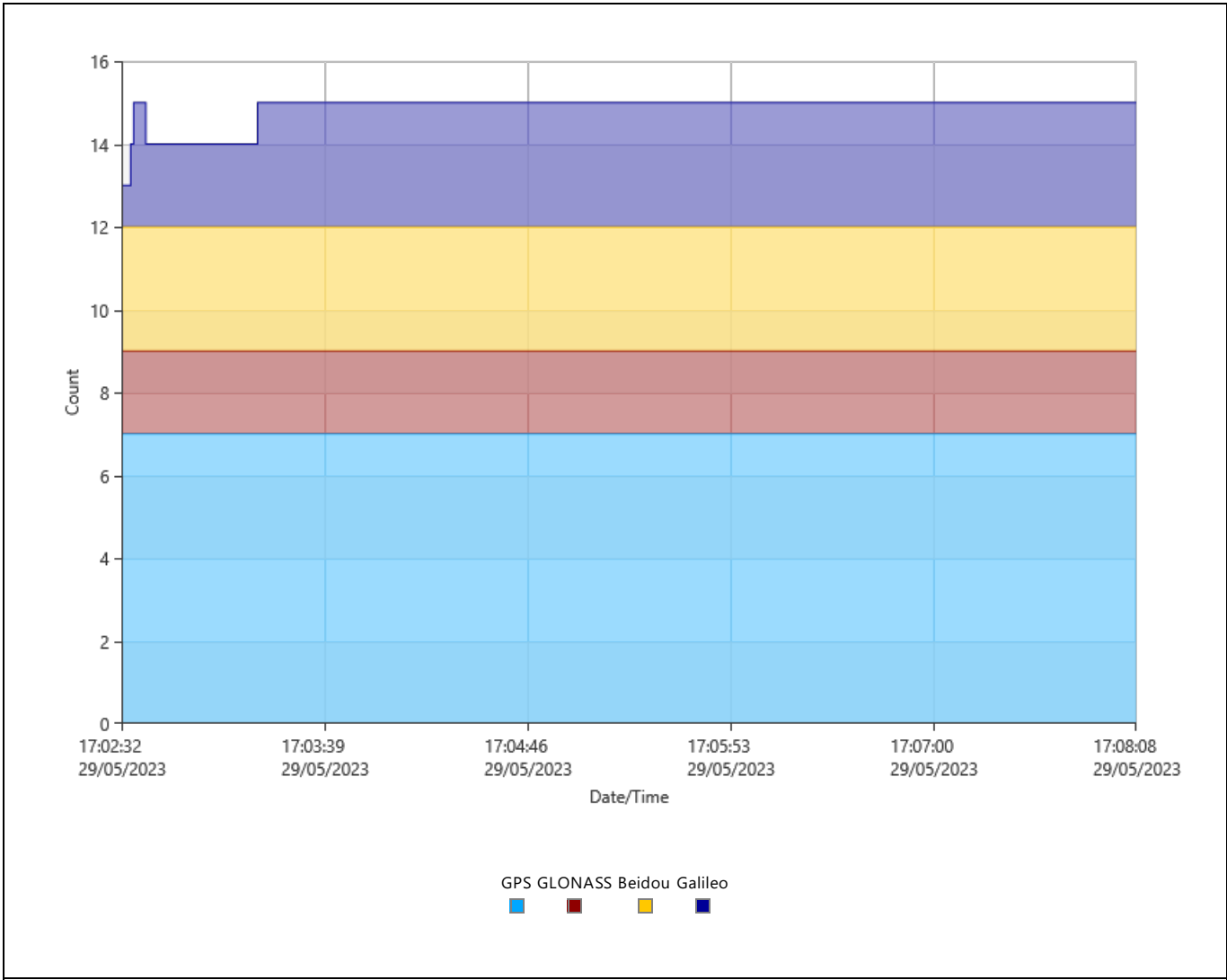
### Processing Info (29/05/2023 17:02:32 - 29/05/2023 17:08:08)

Processed Date/Time: 09/06/2023 17:54:21

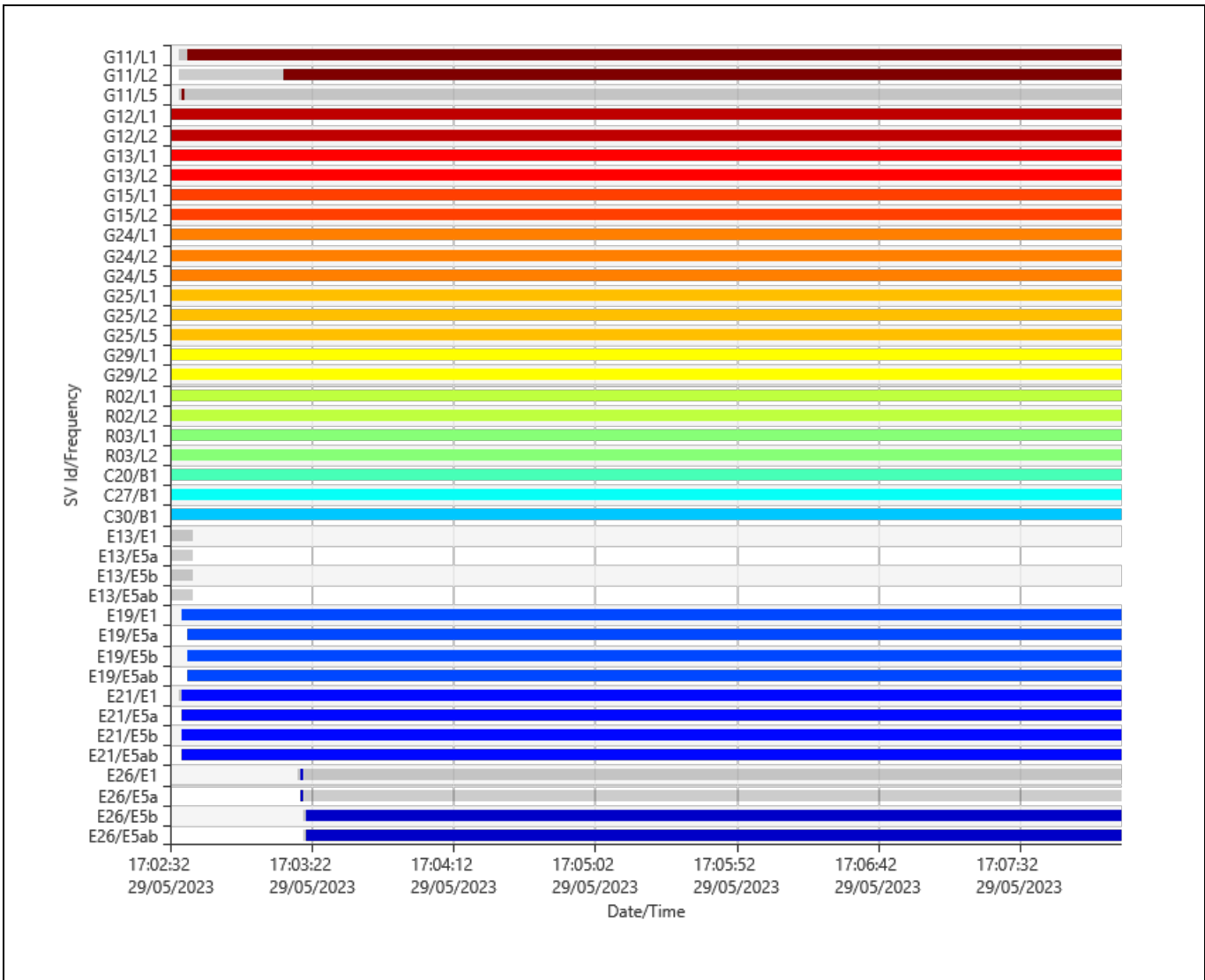
### Satellites

Satellite System	Used	Manually Disabled
GPS	G11 G12 G13 G15 G24 G25 G29	-
GLONASS	R02 R03	-
Beidou	C20 C27 C30	-
Galileo	E19 E21 E26	-

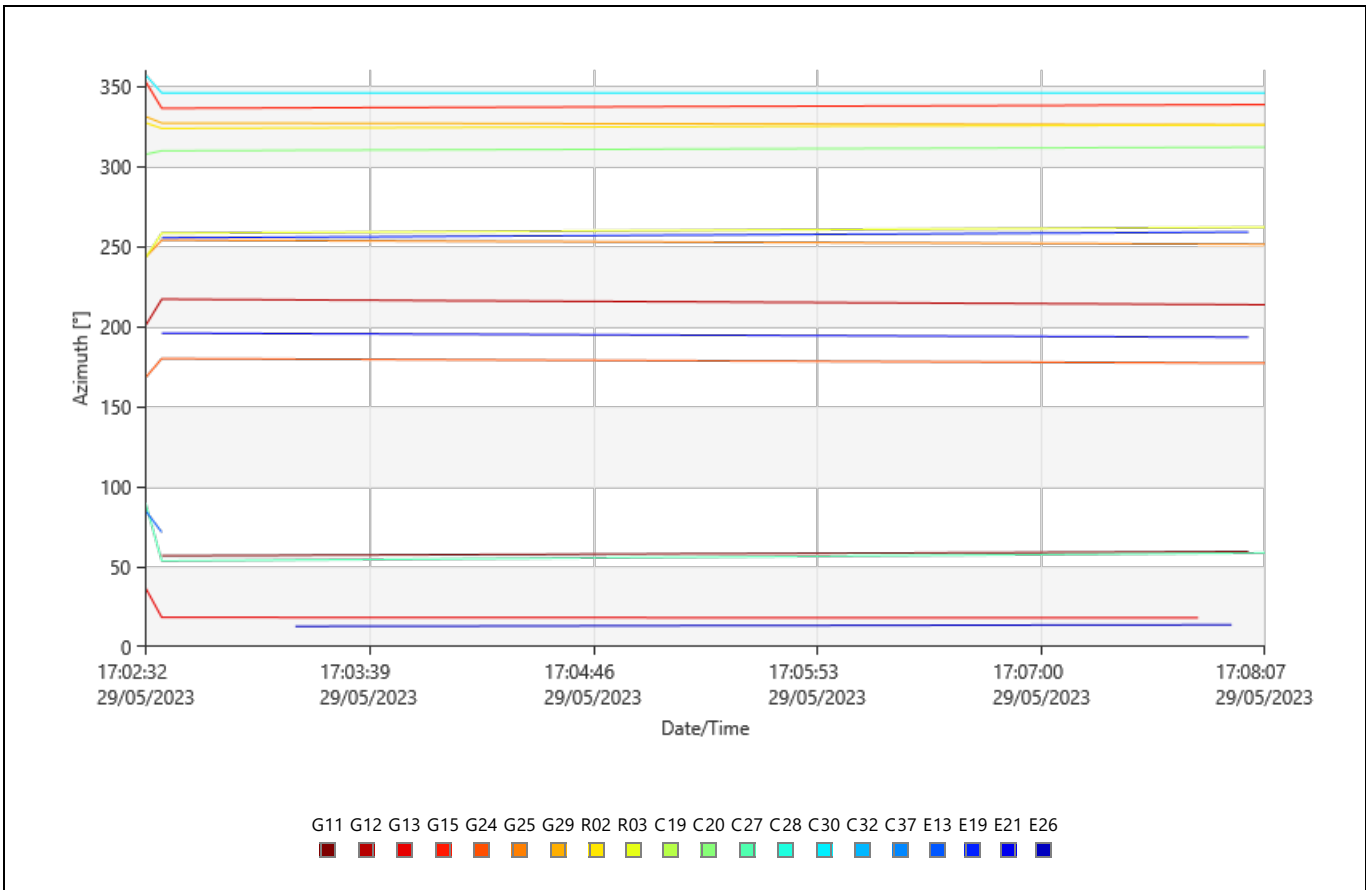
### SVs Tracked



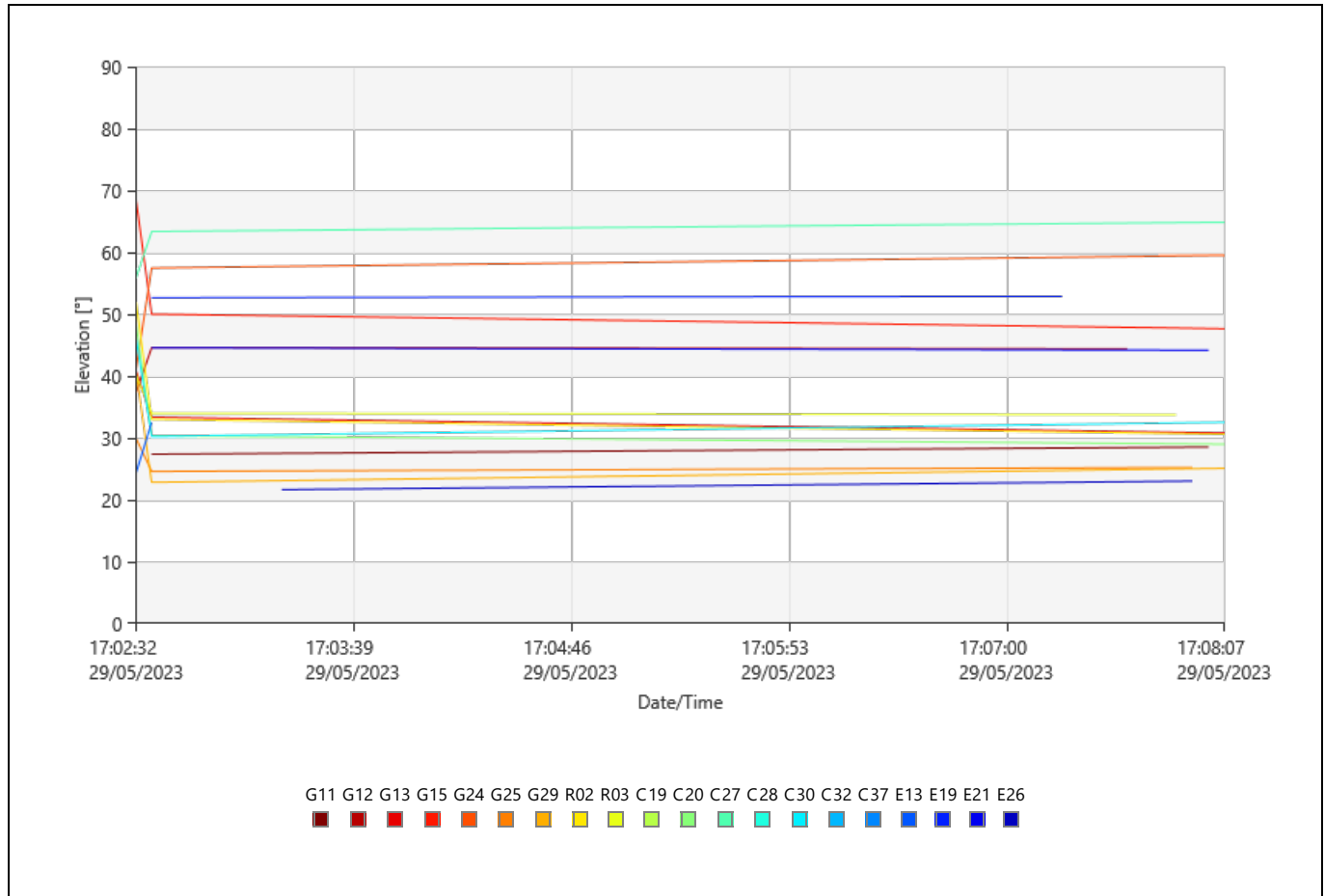
Signals Tracked



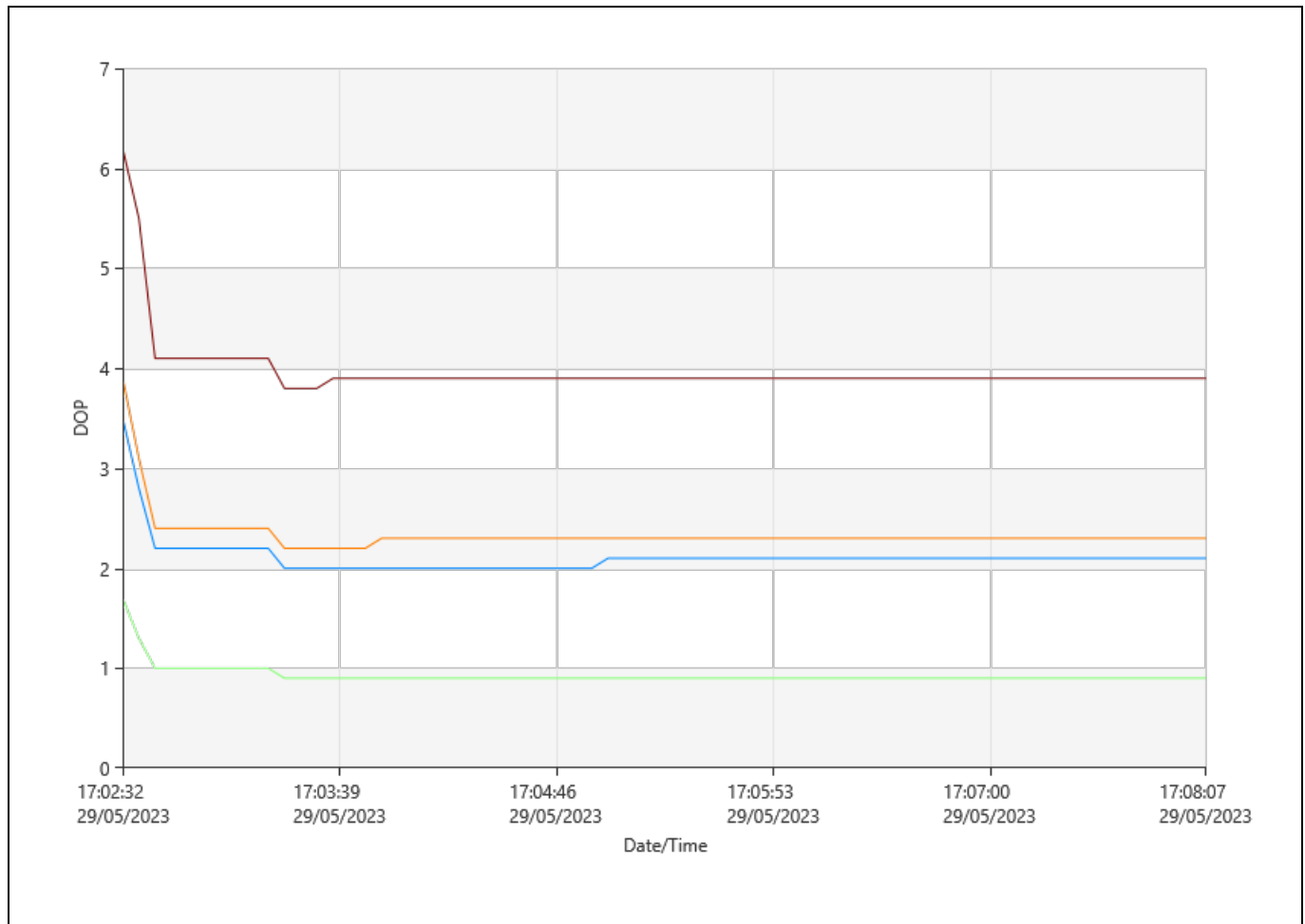
**Azimuth**



Elevation



DOP



GDOP PDOP HDOP VDOP



### Observation Statistics

Common Epochs: 337

#### GPS Observations

Frequency	Used	Rejected
L1	2,353	3
L2	2,319	37
L5	675	333

#### GLONASS Observations

Frequency	Used	Rejected
L1	674	0
L2	674	0

#### Beidou Observations

Frequency	Used	Rejected
B1	1,011	0

#### Galileo Observations

Frequency	Used	Rejected
E1	667	300
E5a	665	298
E5b	953	9
E5ab	953	9

### Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	17	4	3	12
Total	20	4	3	16
Independently fixed	42	42	42	42
Possible independently fixed	42	42	42	42

Average time between independent fixes: 00:00:06

% of Epochs	GPS			GLONASS		Beidou	Galileo			
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]	B1 [%]	E1 [%]	E5a [%]	E5b [%]	E5ab [%]
Fixed	100.00	98.89	100.00	100.00	100.00	100.00	99.17	99.17	99.16	99.16
Not fixed	0.00	1.11	0.00	0.00	0.00	0.00	0.83	0.83	0.84	0.84
Not fixed - contradiction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Fixed	29/05/2023 17:02:32	29/05/2023 17:08:08	00:05:36

### Residuals

### Tracking Status

G11

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:02:35	No Data
	29/05/2023 17:02:35	29/05/2023 17:02:38	Rejected
	29/05/2023 17:02:38	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:02:35	No Data
	29/05/2023 17:02:32	29/05/2023 17:02:42	No Data
	29/05/2023 17:02:35	29/05/2023 17:02:42	Rejected
	29/05/2023 17:02:42	29/05/2023 17:02:44	No Data
	29/05/2023 17:02:42	29/05/2023 17:02:44	Rejected
	29/05/2023 17:02:44	29/05/2023 17:02:46	No Data
	29/05/2023 17:02:44	29/05/2023 17:02:46	Rejected
	29/05/2023 17:02:46	29/05/2023 17:02:49	No Data
	29/05/2023 17:02:46	29/05/2023 17:02:49	Rejected
	29/05/2023 17:02:49	29/05/2023 17:02:50	No Data
	29/05/2023 17:02:49	29/05/2023 17:02:50	Rejected
	29/05/2023 17:02:50	29/05/2023 17:02:51	No Data
	29/05/2023 17:02:50	29/05/2023 17:02:51	Rejected
	29/05/2023 17:02:51	29/05/2023 17:02:53	No Data
	29/05/2023 17:02:51	29/05/2023 17:02:53	Rejected
	29/05/2023 17:02:53	29/05/2023 17:02:55	No Data
	29/05/2023 17:02:53	29/05/2023 17:02:55	Rejected
	29/05/2023 17:02:55	29/05/2023 17:02:56	No Data
29/05/2023 17:02:55	29/05/2023 17:02:56	Rejected	
29/05/2023 17:02:56	29/05/2023 17:03:03	No Data	

	29/05/2023 17:02:56	29/05/2023 17:03:03	Rejected
	29/05/2023 17:03:03	29/05/2023 17:03:04	No Data
	29/05/2023 17:03:03	29/05/2023 17:03:04	Rejected
	29/05/2023 17:03:04	29/05/2023 17:03:09	No Data
	29/05/2023 17:03:04	29/05/2023 17:03:09	Rejected
	29/05/2023 17:03:09	29/05/2023 17:03:10	No Data
	29/05/2023 17:03:09	29/05/2023 17:03:10	Rejected
	29/05/2023 17:03:10	29/05/2023 17:03:11	No Data
	29/05/2023 17:03:10	29/05/2023 17:03:11	Rejected
	29/05/2023 17:03:11	29/05/2023 17:03:12	No Data
	29/05/2023 17:03:11	29/05/2023 17:03:12	Rejected
	29/05/2023 17:03:12	29/05/2023 17:08:08	Used
	29/05/2023 17:03:12	29/05/2023 17:08:08	No Data
L5	29/05/2023 17:02:32	29/05/2023 17:02:35	No Data
	29/05/2023 17:02:35	29/05/2023 17:02:36	Rejected
	29/05/2023 17:02:36	29/05/2023 17:02:37	Used
	29/05/2023 17:02:37	29/05/2023 17:08:08	Rejected

G12

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

G13

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

G15

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

G24

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L5	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

G25

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L5	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

G29

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

R02

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

R03

Frequency	From Epoch	To Epoch	Status
L1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used
L2	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

E13

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 17:02:32	29/05/2023 17:02:40	Rejected
	29/05/2023 17:02:40	29/05/2023 17:08:08	No Data
E5a	29/05/2023 17:02:32	29/05/2023 17:02:40	Rejected
	29/05/2023 17:02:40	29/05/2023 17:08:08	No Data
E5b	29/05/2023 17:02:32	29/05/2023 17:02:40	Rejected

	29/05/2023 17:02:40	29/05/2023 17:08:08	No Data
E5ab	29/05/2023 17:02:32	29/05/2023 17:02:40	Rejected
	29/05/2023 17:02:40	29/05/2023 17:08:08	No Data

E19

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 17:02:32	29/05/2023 17:02:36	No Data
	29/05/2023 17:02:36	29/05/2023 17:08:08	Used
E5a	29/05/2023 17:02:32	29/05/2023 17:02:38	No Data
	29/05/2023 17:02:38	29/05/2023 17:08:08	Used
E5b	29/05/2023 17:02:32	29/05/2023 17:02:38	No Data
	29/05/2023 17:02:38	29/05/2023 17:08:08	Used
E5ab	29/05/2023 17:02:32	29/05/2023 17:02:38	No Data
	29/05/2023 17:02:38	29/05/2023 17:08:08	Used

E21

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 17:02:32	29/05/2023 17:02:35	No Data
	29/05/2023 17:02:35	29/05/2023 17:02:36	Rejected
	29/05/2023 17:02:36	29/05/2023 17:08:08	Used
E5a	29/05/2023 17:02:32	29/05/2023 17:02:36	No Data
	29/05/2023 17:02:36	29/05/2023 17:08:08	Used
E5b	29/05/2023 17:02:32	29/05/2023 17:02:36	No Data
	29/05/2023 17:02:36	29/05/2023 17:08:08	Used
E5ab	29/05/2023 17:02:32	29/05/2023 17:02:36	No Data
	29/05/2023 17:02:36	29/05/2023 17:08:08	Used

E26

Frequency	From Epoch	To Epoch	Status
E1	29/05/2023 17:02:32	29/05/2023 17:03:17	No Data
	29/05/2023 17:03:17	29/05/2023 17:03:18	Rejected
	29/05/2023 17:03:18	29/05/2023 17:03:19	Used
	29/05/2023 17:03:19	29/05/2023 17:08:08	Rejected
E5a	29/05/2023 17:02:32	29/05/2023 17:03:18	No Data
	29/05/2023 17:03:18	29/05/2023 17:03:19	Used
	29/05/2023 17:03:19	29/05/2023 17:08:08	Rejected
E5b	29/05/2023 17:02:32	29/05/2023 17:03:19	No Data
	29/05/2023 17:03:19	29/05/2023 17:03:20	Rejected
	29/05/2023 17:03:20	29/05/2023 17:08:08	Used
E5ab	29/05/2023 17:02:32	29/05/2023 17:03:19	No Data
	29/05/2023 17:03:19	29/05/2023 17:03:20	Rejected
	29/05/2023 17:03:20	29/05/2023 17:08:08	Used

C20

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

C27

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

C30

Frequency	From Epoch	To Epoch	Status
B1	29/05/2023 17:02:32	29/05/2023 17:08:08	Used

Cycle Slips

Slip Count: 7

SV	Frequency	Epoch	Slip Value	Flag
G11	L2	29/05/2023 17:02:48	-	RIA
		29/05/2023 17:02:50	-	RIA
		29/05/2023 17:02:56	-	RIA
		29/05/2023 17:02:58	-	RIA
		29/05/2023 17:03:04	-	RIA
		29/05/2023 17:03:06	-	RIA
		29/05/2023 17:03:12	-	RIA

UCS: Unflagged cycle slip. The cycle slip was not flagged in the data but was found by Infinity.



**RIA:** Re-initialised ambiguity. The cycle slip could not be fixed and the ambiguity search was re-initialised afterwards.  
**Flagged:** The cycle slip was flagged in the data.

## **Processing Messages**

### **Warning**

Missing orbits for satellite R22.  
Missing orbits for satellite R23.  
Missing orbits for satellite R06.  
Missing orbits for satellite R10.