

Leica Geosystems AG

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- when it has to be **right**



GNSS Processing Report - Summary

Report created: 19/10/2025 19:19:08

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	20251015	Customer Name:	-	Coordinate System Name:	MAGNA SIRGAS
Owner:	-	Contact Person:	-	Transformation Type:	-
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	19/10/2025 17:21:57	Email:	-	Ellipsoid:	GRS 1980
Last Accessed:	19/10/2025 19:07:11	Skype:	-	Projection Type:	Transverse Mercator
Application Software:	Infinity 4.2.0	Website:	-	Geoid Model:	-
				CSCS Model:	-
Path:	D:\ADOLFO\TRABAJOS 2025\HIDOLFO ROJAS\07-05-25 GNSS\20251015\PROYECTO LEICA\20251015\20251015.iprj				
Size:	185.6 MB				
Comments:	-				

Baseline AEMO - HG22

Processing Parameters (15/10/2025 13:38:49 - 15/10/2025 15:41:16)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/L2/L5	
Sampling Rate:	Use All	15.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	NGS 20 Absolute	NGS 20 Absolute	

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	Iono Minimised
Frequency to use in Iono Minimised:	Automatic	L1/L2/L5
Tropospheric Model:	Automatic	Computed
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: AEMO - HG22

Acquisition

Start Time - End Time: 15/10/2025 13:38:57 - 15/10/2025 15:41:12
Duration: 02:02:15

Antennas

	Reference - AEMO	Rover - HG22
Receiver Name / SN:	TRIMBLE NETR9 / 5419R48358	EFIX F7 / 3496834
Antenna Name / SN:	TRM57971.00 / 5000117753	EFIF7+ / -
Carrier Offset:	-	0.0000 m
Height Reading:	0.0350 m	2.0000 m
Antenna Height:	0.0350 m	2.0000 m

Phase Center Offset

	Reference - TRM57971.00		Rover - EFIF7+	
GPS	L1	L2	L1	L2
East	0.0003 m	0.0011 m	0.0002 m	0.0010 m
North	0.0008 m	-0.0001 m	0.0016 m	0.0001 m
Up	0.0642 m	0.0583 m	0.0836 m	0.0718 m

GLONASS	L1	L2	L1	L2
East	0.0004 m	0.0012 m	-	-
North	0.0007 m	-0.0004 m	-	-
Up	0.0630 m	0.0579 m	-	-

Coordinates

	Reference - AEMO	Rover - HG22		Reference - AEMO	Rover - HG22
Point Role:	Control	Fixed PP			
WGS84 Latitude:	9° 15' 46.68" N	9° 16' 35.02" N	Easting:	4,842,351.1245 m	4,820,901.5990 m
WGS84 Longitude:	74° 26' 08.79" W	74° 37' 52.11" W	Northing:	2,581,883.0964 m	2,583,460.0128 m
WGS84 Ellip. Height:	16.6716 m	15.9748 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1,689,205.8531 m	1,668,453.4318 m			
WGS84 Cartesian Y:	-6,064,673.1430 m	-6,070,166.3303 m			
WGS84 Cartesian Z:	1,019,881.0686 m	1,021,346.6388 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 00' 48.34"	SD ΔLatitude:	0.0003 m
ΔLongitude:	-0° 11' 43.31"	SD ΔLongitude:	0.0004 m
ΔHeight:	-0.6969 m	SD ΔHeight:	0.0031 m
ΔX:	-20,752.4213 m	SD ΔX:	0.0009 m
ΔY:	-5,493.1873 m	SD ΔY:	0.0029 m
ΔZ:	1,465.5702 m	SD ΔZ:	0.0006 m
Slope Dist.:	21,517.1093 m	SD Slope Dist.:	0.0004 m
M0:	0.2774 m	CQ 1D:	0.0031 m

Q11:	0.00001140	CQ 2D:	0.0005 m
Q12:	-0.00003244	CQ 3D:	0.0031 m
Q22:	0.00011099		
Q13:	0.00000604		
Q23:	-0.00001942		
Q33:	0.00000480		

Frequency:	L1/L2/L5	GDOP:	2.0 - 6.7	GPS SVs:	9/9
Solution Optimisation:	Iono Minimised	PDOP:	1.5 - 4.4	GLONASS SVs:	5/6
Solution Type:	Phase Fixed	HDOP:	0.7 - 1.6	Beidou SVs:	-
		VDOP:	1.4 - 4.1	Galileo SVs:	-
				QZSS SVs:	-

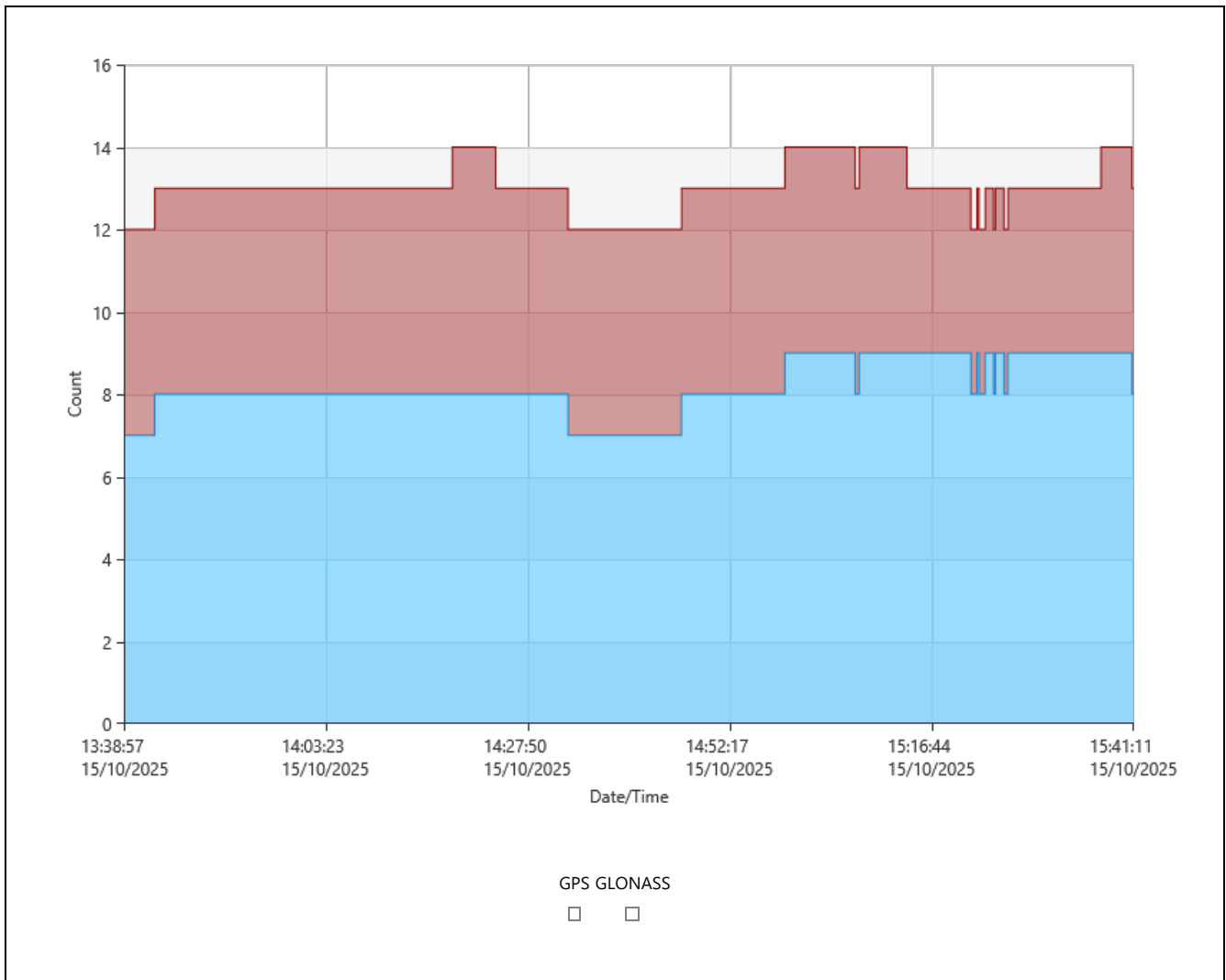
Ephemeris Type:

GPS	Broadcast
GLONASS	Broadcast

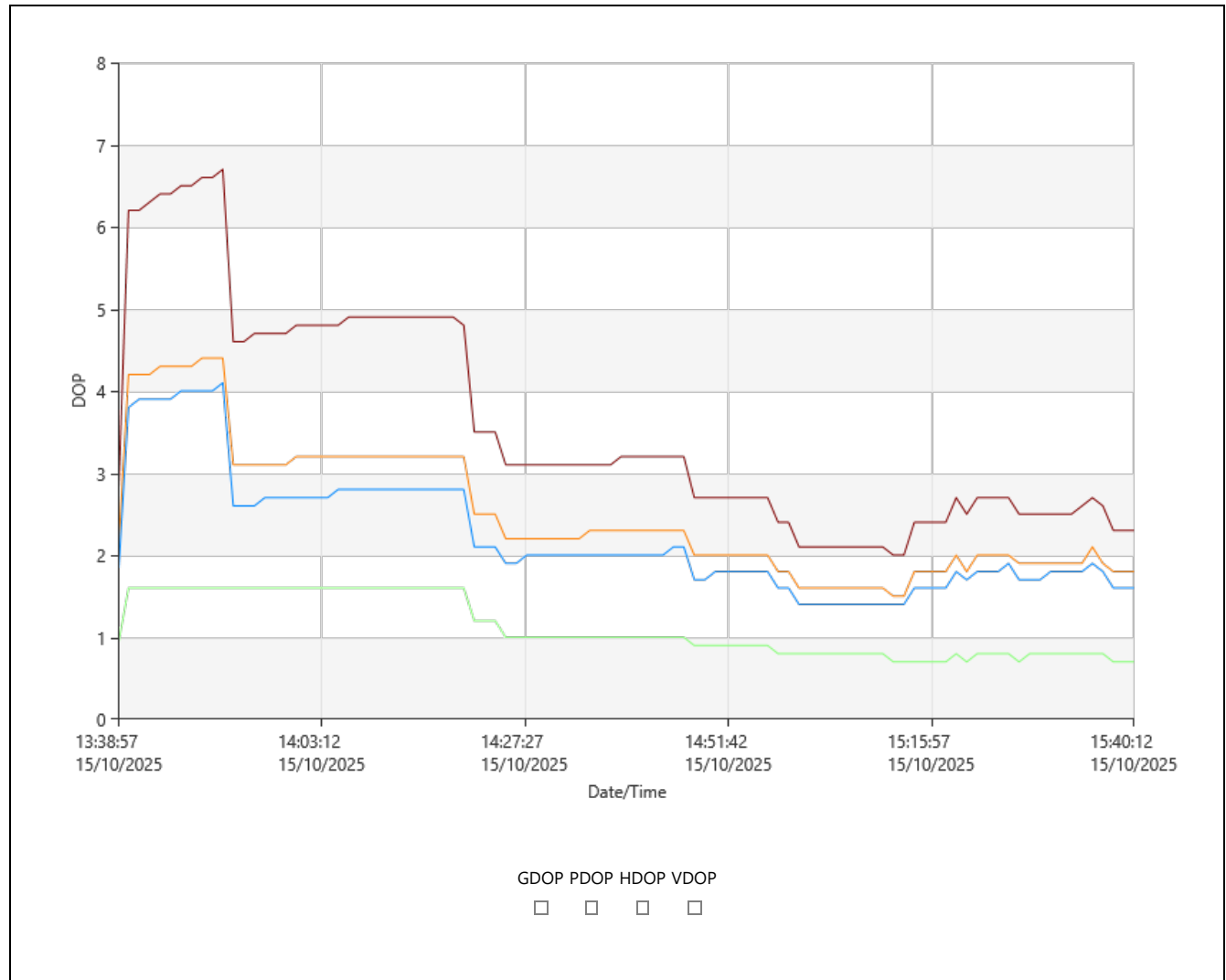
Processing Info (15/10/2025 13:38:49 - 15/10/2025 15:41:16)

Processed Date/Time: 19/10/2025 19:10:02

SVs Tracked



DOP



Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	35	13	0	0
Total	45	14	0	0
Independently fixed	190	185	0	0
Possible independently fixed	203	203	203	203

Average time between independent fixes: 00:02:30

% of Epochs	GPS			GLONASS	
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]
Fixed	83.18	82.79	92.43	78.23	83.90
Not fixed	0.51	0.73	0.34	0.00	0.68
Not fixed - contradiction	16.31	16.47	7.23	21.77	15.41
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	15/10/2025 13:38:57	15/10/2025 13:39:12	00:00:15
Fixed	15/10/2025 13:39:12	15/10/2025 15:41:12	02:02:00

Baseline GGUE - HG22

Processing Parameters (15/10/2025 13:38:49 - 15/10/2025 15:41:16)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/L2/L5	
Sampling Rate:	Use All	15.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	NGS 20 Absolute	NGS 20 Absolute	

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Ionospheric Minimised:	Automatic	Automatic
Tropospheric Model:	Automatic	Computed
Ionospheric Model:	Automatic	Computed
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: GGUE - HG22

Acquisition

Start Time - End Time:	15/10/2025 13:38:57 - 15/10/2025 15:41:12
Duration:	02:02:15

Antennas

	Reference - GGUE	Rover - HG22
Receiver Name / SN:	TRIMBLE NETR9 / 5144K79417	EFIX F7 / 3496834
Antenna Name / SN:	TRM159900.00 SCIS / 622533329	EFIF7+ / -
Carrier Offset:	-	0.0000 m
Height Reading:	0.1410 m	2.0000 m
Antenna Height:	0.1410 m	2.0000 m

Phase Center Offset

	Reference - TRM159900.00 SCIS		Rover - EFIF7+	
GPS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	0.0002 m	0.0010 m

GLONASS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	-	-
North	0.0008 m	0.0004 m	-	-
Up	0.1118 m	0.1245 m	-	-

	Reference - GGUE	Rover - HG22		Reference - GGUE	Rover - HG22
Point Role:	Control	Fixed PP			
WGS84 Latitude:	9° 14' 23.73" N	9° 16' 35.02" N	Easting:	4,806,743.7474 m	4,820,901.6022 m
WGS84 Longitude:	74° 45' 35.51" W	74° 37' 52.11" W	Northing:	2,579,495.1583 m	2,583,459.9638 m
WGS84 Ellip. Height:	27.0220 m	15.7236 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1,654,985.1012 m	1,668,453.3715 m			
WGS84 Cartesian Y:	-6,074,536.1098 m	-6,070,166.0980 m			
WGS84 Cartesian Z:	1,017,367.2220 m	1,021,346.5500 m			

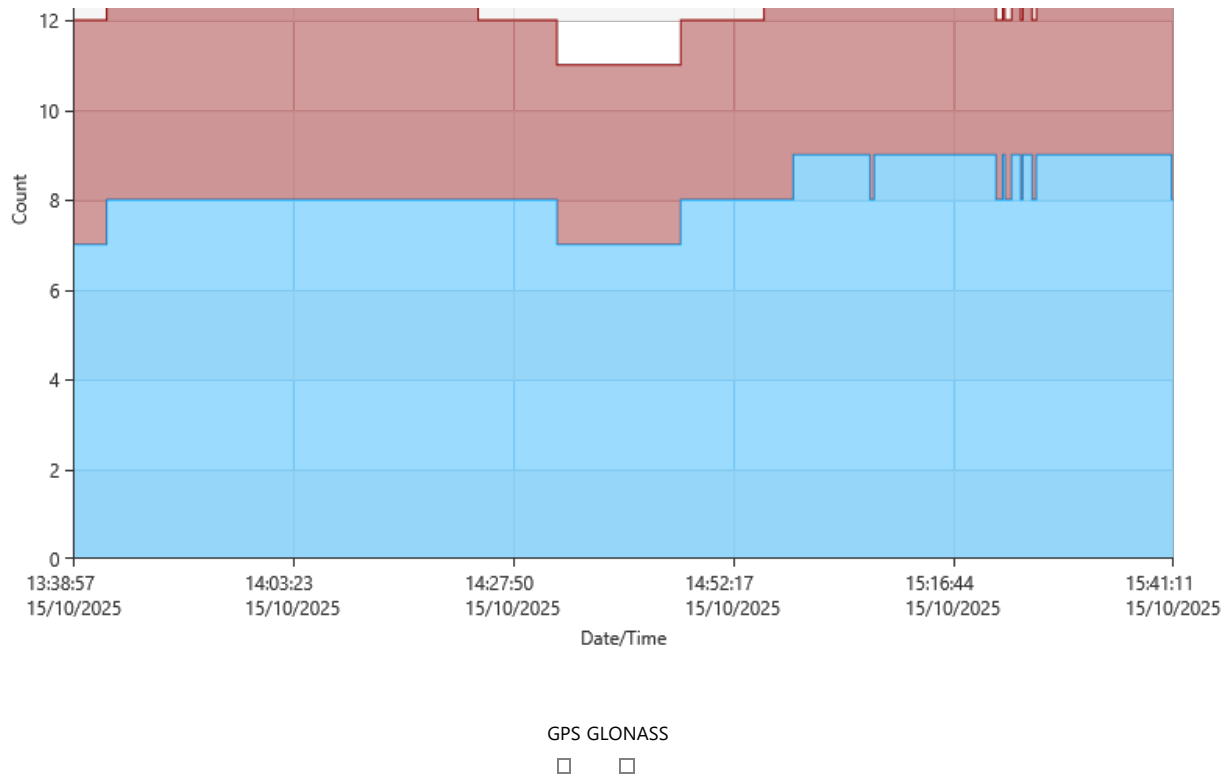
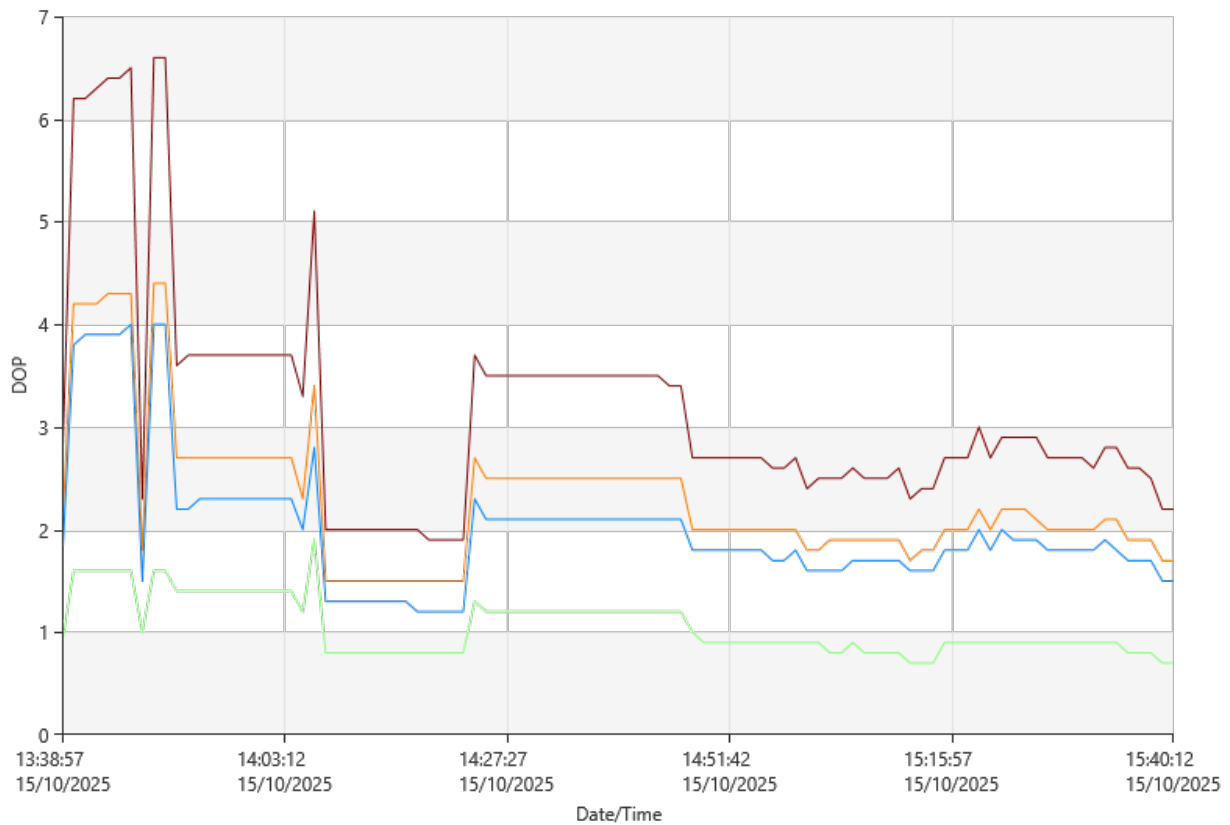
ΔLatitude:	0° 02' 11.29"	SD ΔLatitude:	0.0006 m
ΔLongitude:	0° 07' 43.41"	SD ΔLongitude:	0.0006 m
ΔHeight:	-11.2984 m	SD ΔHeight:	0.0053 m
ΔX:	13,468.2703 m	SD ΔX:	0.0016 m
ΔY:	4,370.0118 m	SD ΔY:	0.0050 m
ΔZ:	3,979.3280 m	SD ΔZ:	0.0011 m
Slope Dist.:	14,708.0373 m	SD Slope Dist.:	0.0006 m

M0:	1.7855 m	CQ 1D:	0.0053 m
Q11:	0.00000077	CQ 2D:	0.0008 m
Q12:	-0.00000227	CQ 3D:	0.0054 m
Q22:	0.00000789		
Q13:	0.00000044		
Q23:	-0.00000145		
Q33:	0.00000038		

Frequency:	L1/L2/L5	GDOP:	1.9 - 6.6	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.5 - 4.4	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.7 - 1.9	Beidou SVs:	-
		VDOP:	1.2 - 4.0	Galileo SVs:	-
				OZSS SVs:	-

Ephemeris Type:	
GPS	Broadcast
GLONASS	Broadcast

Processed Date/Time: 19/10/2025 19:10:02

**DOP**

GDOP PDOP HDOP VDOP			
☐	☐	☐	☐

Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	47	11	0	0
Total	60	15	0	0
Independently fixed	176	170	0	0
Possible independently fixed	198	198	198	198

Average time between independent fixes: 00:02:30

% of Epochs	GPS			GLONASS	
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]
Fixed	99.14	83.00	90.65	78.25	72.79
Not fixed	0.86	0.63	0.27	0.73	2.31
Not fixed - contradiction	0.00	16.37	9.08	21.02	24.90
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	15/10/2025 13:38:57	15/10/2025 13:39:12	00:00:15
Fixed	15/10/2025 13:39:12	15/10/2025 13:47:27	00:08:15
Not fixed	15/10/2025 13:47:27	15/10/2025 13:47:57	00:00:30
Fixed	15/10/2025 13:47:57	15/10/2025 14:07:42	00:19:45
Not fixed	15/10/2025 14:07:42	15/10/2025 14:22:57	00:15:15
Fixed	15/10/2025 14:22:57	15/10/2025 15:38:57	01:16:00
Not fixed	15/10/2025 15:38:57	15/10/2025 15:41:12	00:02:15

Baseline AEMO - HG23

Processing Parameters (15/10/2025 13:40:12 - 15/10/2025 15:45:54)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/L2/L5	
Sampling Rate:	Use All	30.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	NGS 20 Absolute	NGS 20 Absolute	

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	Iono Minimised
Frequency to use in Iono Minimised:	Automatic	L1/L2/L5
Tropospheric Model:	Automatic	Computed
Ionospheric Model:	Automatic	Computed
Allow Widelane Fix:	Automatic	Automatic

General Settings

Min. Distance for Iono Minimised:	15 km
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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: AEMO - HG23

Acquisition

Start Time - End Time: 15/10/2025 13:40:12 - 15/10/2025 15:45:42
Duration: 02:05:30

Antennas

	Reference - AEMO	Rover - HG23
Receiver Name / SN:	TRIMBLE NETR9 / 5419R48358	EFIX eBASE / 3595717
Antenna Name / SN:	TRM57971.00 / 5000117753	EFIF7+ / -
Carrier Offset:	-	0.0000 m
Height Reading:	0.0350 m	1.7800 m
Antenna Height:	0.0350 m	1.7800 m

Phase Center Offset

	Reference - TRM57971.00		Rover - EFIF7+	
GPS	L1	L2	L1	L2
East	0.0003 m	0.0011 m	0.0002 m	0.0010 m
North	0.0008 m	-0.0001 m	0.0016 m	0.0001 m
Up	0.0642 m	0.0583 m	0.0836 m	0.0718 m

GLONASS	L1	L2	L1	L2
East	0.0004 m	0.0012 m	-	-
North	0.0007 m	-0.0004 m	-	-
Up	0.0630 m	0.0579 m	-	-

Coordinates

	Reference - AEMO	Rover - HG23		Reference - AEMO	Rover - HG23
Point Role:	Control	Fixed PP			
WGS84 Latitude:	9° 15' 46.68" N	9° 16' 36.64" N	Easting:	4,842,351.1245 m	4,820,900.8226 m
WGS84 Longitude:	74° 26' 08.79" W	74° 37' 52.14" W	Northing:	2,581,883.0964 m	2,583,509.8096 m
WGS84 Ellip. Height:	16.6716 m	15.4103 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1,689,205.8531 m	1,668,450.1865 m			
WGS84 Cartesian Y:	-6,064,673.1430 m	-6,070,158.3168 m			
WGS84 Cartesian Z:	1,019,881.0686 m	1,021,395.7093 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 00' 49.96"	SD ΔLatitude:	0.0007 m
ΔLongitude:	-0° 11' 43.35"	SD ΔLongitude:	0.0008 m
ΔHeight:	-1.2613 m	SD ΔHeight:	0.0057 m
ΔX:	-20,755.6666 m	SD ΔX:	0.0017 m
ΔY:	-5,485.1738 m	SD ΔY:	0.0055 m
ΔZ:	1,514.6407 m	SD ΔZ:	0.0011 m

Slope Dist.:	21,521.5930 m	SD Slope Dist.:	0.0008 m
M0:	0.4124 m	CQ 1D:	0.0057 m
Q11:	0.00001741	CQ 2D:	0.0010 m
Q12:	-0.00004910	CQ 3D:	0.0058 m
Q22:	0.00017553		
Q13:	0.00000861		
Q23:	-0.00002863		
Q33:	0.00000741		

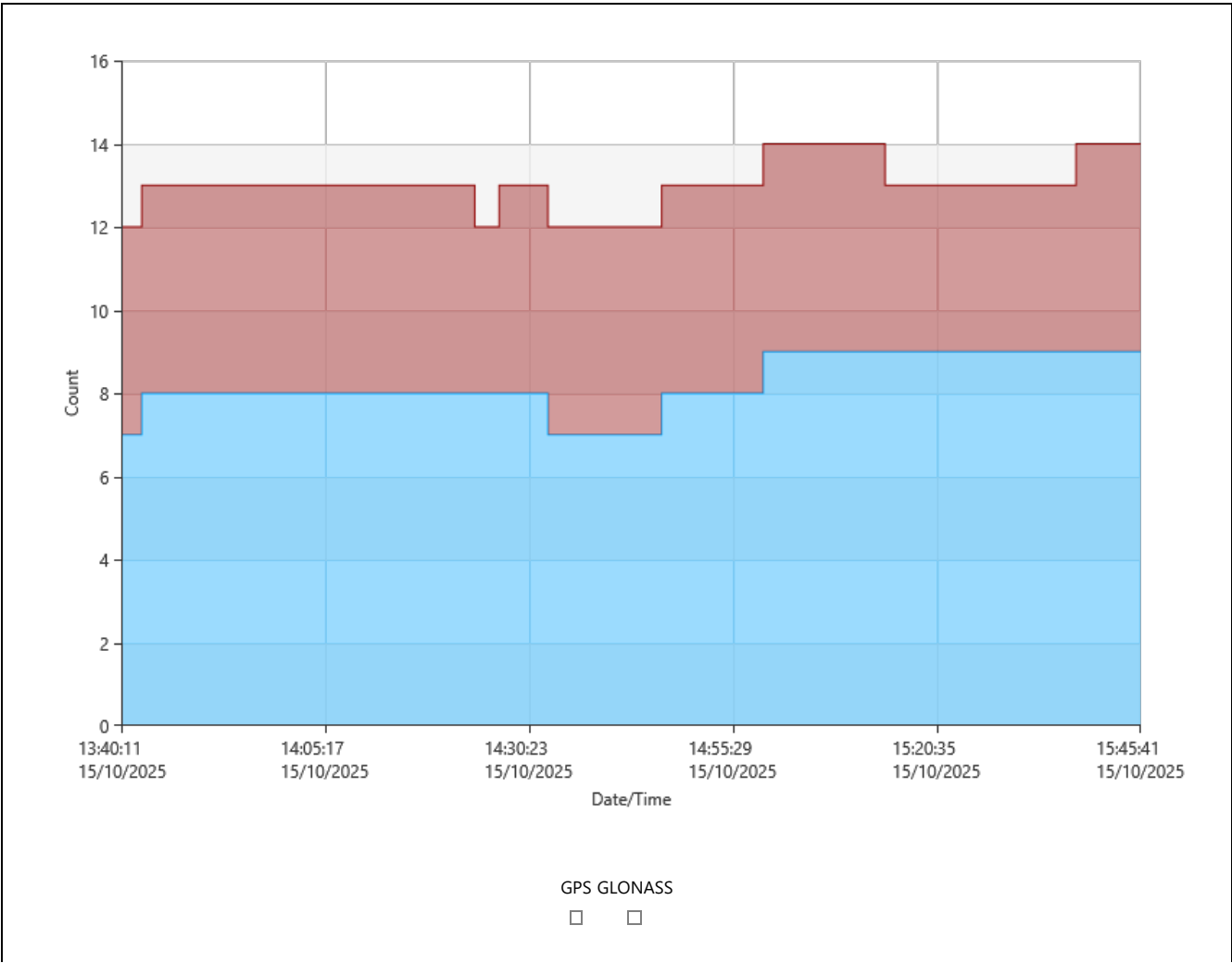
Frequency:	L1/L2/L5	GDOP:	2.3 - 5.9	GPS SVs:	9/9
Solution Optimisation:	Iono Minimised	PDOP:	1.7 - 3.9	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.7 - 1.7	Beidou SVs:	-
		VDOP:	1.5 - 3.5	Galileo SVs:	-
				QZSS SVs:	-

Ephemeris Type:	
GPS	Broadcast
GLONASS	Broadcast

Processing Info (15/10/2025 13:40:12 - 15/10/2025 15:45:54)

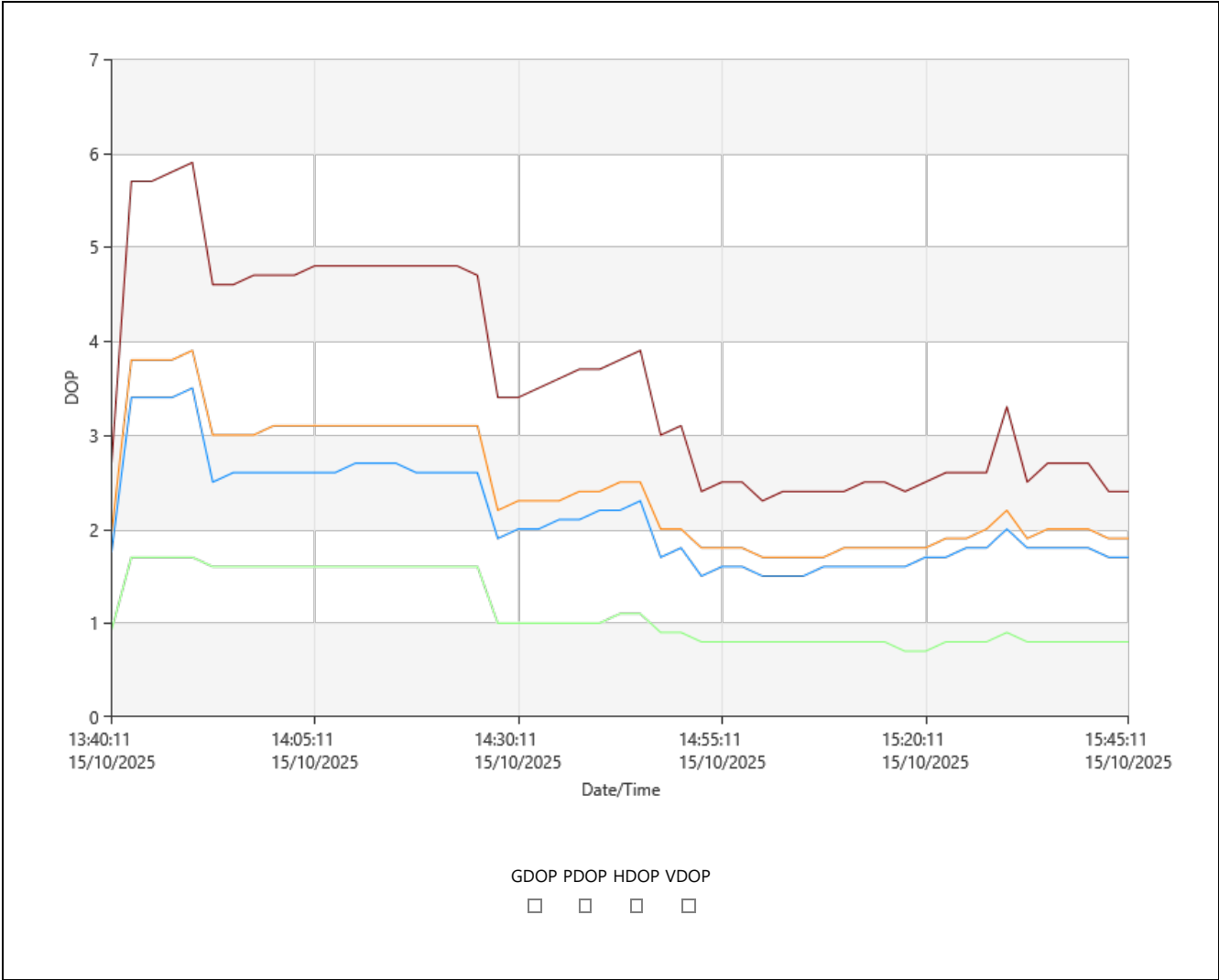
Processed Date/Time: 19/10/2025 19:10:02

SVs Tracked



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DOP



Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	38	18	0	0
Total	44	36	0	0
Independently fixed	203	199	0	0
Possible independently fixed	208	208	208	208

Average time between independent fixes: 00:02:30

% of Epochs	GPS			GLONASS	
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]
Fixed	92.77	94.33	92.56	69.52	43.98
Not fixed	0.29	0.54	0.65	0.00	6.34
Not fixed - contradiction	6.93	5.13	6.80	30.48	49.68
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00

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Status	From Epoch	To Epoch	Duration
Not fixed	15/10/2025 13:40:12	15/10/2025 13:40:42	00:00:30
Fixed	15/10/2025 13:40:42	15/10/2025 15:45:42	02:05:00

Baseline GGUE - HG23

Processing Parameters (15/10/2025 13:40:12 - 15/10/2025 15:45:54)

Data	Selected	Used	Comments
Cut-Off Angle:	10°	10°	
Frequency:	Automatic	L1/L2/L5	
Sampling Rate:	Use All	30.00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS/GLONASS	
Ephemeris Type:	Broadcast	Broadcast	
Antenna Calibration Set:	NGS 20 Absolute	NGS 20 Absolute	

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Iono Minimised:	Automatic	Automatic
Tropospheric Model:	Automatic	Computed
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: GGUE - HG23

Acquisition

Start Time - End Time:	15/10/2025 13:40:12 - 15/10/2025 15:45:42
Duration:	02:05:30

Antennas

	Reference - GGUE	Rover - HG23
Receiver Name / SN:	TRIMBLE NETR9 / 5144K79417	EFIX eBASE / 3595717
Antenna Name / SN:	TRM159900.00 SCIS / 622533329	EFIF7+ / -
Carrier Offset:	-	0.0000 m
Height Reading:	0.1410 m	1.7800 m
Antenna Height:	0.1410 m	1.7800 m

Phase Center Offset

	Reference - TRM159900.00 SCIS		Rover - EFIF7+	
GPS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	0.0002 m	0.0010 m
North	0.0008 m	0.0004 m	0.0016 m	0.0001 m
Up	0.1118 m	0.1245 m	0.0836 m	0.0718 m

GLONASS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	-	-
North	0.0008 m	0.0004 m	-	-
Up	0.1118 m	0.1245 m	-	-

Coordinates

	Reference - GGUE	Rover - HG23		Reference - GGUE	Rover - HG23
Point Role:	Control	Fixed PP			
WGS84 Latitude:	9° 14' 23.73" N	9° 16' 36.64" N	Easting:	4,806,743.7474 m	4,820,900.8200 m
WGS84 Longitude:	74° 45' 35.51" W	74° 37' 52.14" W	Northing:	2,579,495.1583 m	2,583,509.7498 m
WGS84 Ellip. Height:	27.0220 m	15.1202 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1,654,985.1012 m	1,668,450.1110 m			
WGS84 Cartesian Y:	-6,074,536.1098 m	-6,070,158.0507 m			
WGS84 Cartesian Z:	1,017,367.2220 m	1,021,395.6035 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 02' 12.91"	SD ΔLatitude:	0.0009 m
ΔLongitude:	0° 07' 43.37"	SD ΔLongitude:	0.0010 m
ΔHeight:	-11.9018 m	SD ΔHeight:	0.0071 m
ΔX:	13,465.0098 m	SD ΔX:	0.0021 m
ΔY:	4,378.0591 m	SD ΔY:	0.0067 m
ΔZ:	4,028.3815 m	SD ΔZ:	0.0015 m
Slope Dist.:	14,720.7930 m	SD Slope Dist.:	0.0010 m

M0:	1.8809 m	CQ 1D:	0.0071 m
Q11:	0.00000128	CQ 2D:	0.0013 m
Q12:	-0.00000359	CQ 3D:	0.0072 m
Q22:	0.00001285		
Q13:	0.00000071		
Q23:	-0.00000225		
Q33:	0.00000065		

Frequency:	L1/L2/L5	GDOP:	1.9 - 6.4	GPS SVs:	9/9
Solution Optimisation:	None	PDOP:	1.4 - 4.3	GLONASS SVs:	5/5
Solution Type:	Phase Fixed	HDOP:	0.7 - 2.2	Beidou SVs:	-
		VDOP:	1.2 - 3.6	Galileo SVs:	-
				QZSS SVs:	-

Ephemeris Type:

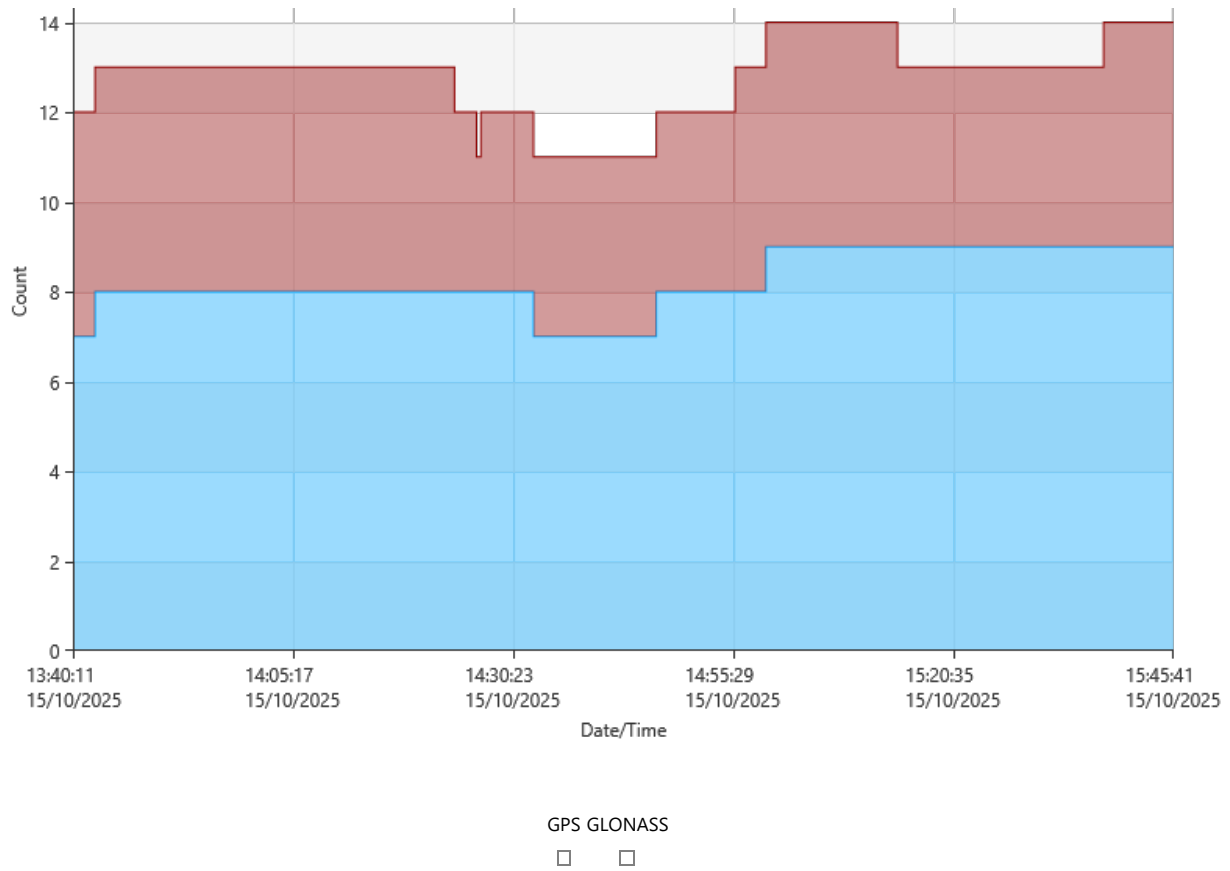
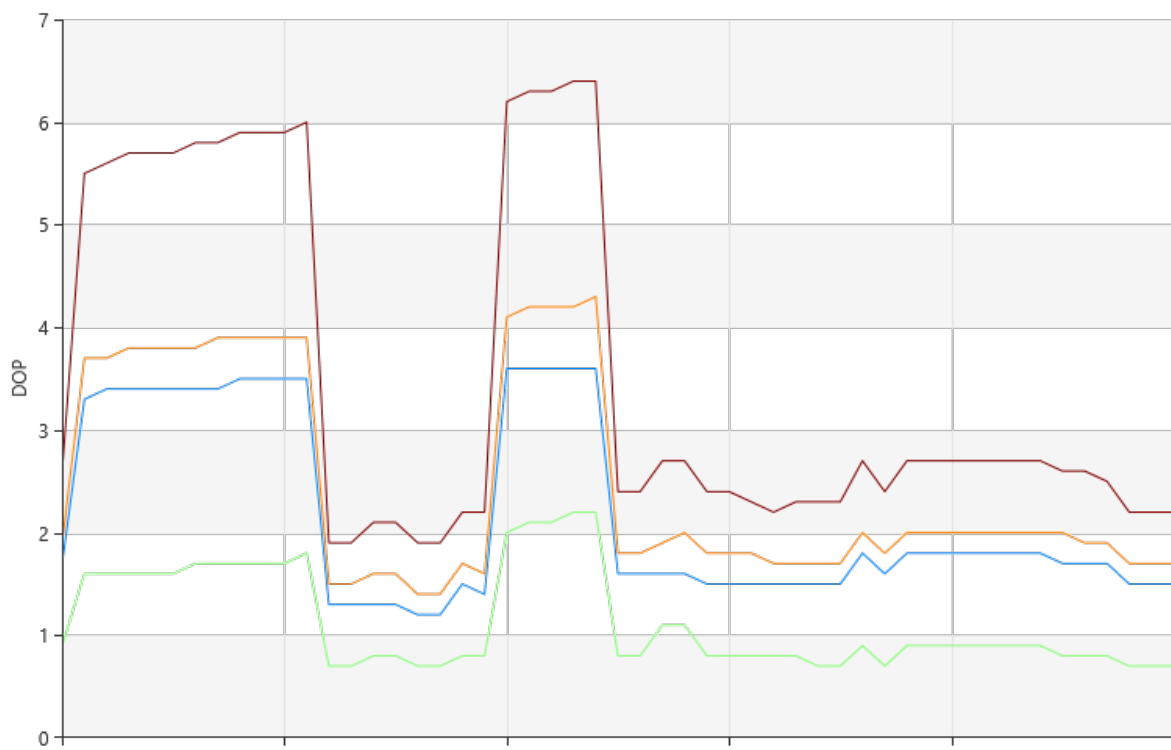
GPS	Broadcast
GLONASS	Broadcast

Processing Info (15/10/2025 13:40:12 - 15/10/2025 15:45:54)

Processed Date/Time: 19/10/2025 19:10:02

SVs Tracked

16					
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**DOP**

13:40:11 15/10/2025	14:05:11 15/10/2025	14:30:11 15/10/2025	14:55:11 15/10/2025	15:20:11 15/10/2025	15:45:11 15/10/2025
Date/Time					
GDOP PDOP HDOP VDOP					
□ □ □ □					

Ambiguity Statistics

Number of Ambiguities	GPS	GLONASS	Beidou	Galileo
Fixed	39	15	0	0
Total	46	37	0	0
Independently fixed	173	168	0	0
Possible independently fixed	205	205	205	205

Average time between 00:02:30
independent fixes:

% of Epochs	GPS			GLONASS	
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]
Fixed	99.71	97.26	84.40	62.15	43.32
Not fixed	0.29	1.22	1.10	1.43	8.63
Not fixed - contradiction	0.00	1.51	14.50	36.42	48.05
Not fixed - missing phase	0.00	0.00	0.00	0.00	0.00

Status	From Epoch	To Epoch	Duration
Not fixed	15/10/2025 13:40:12	15/10/2025 13:40:42	00:00:30
Fixed	15/10/2025 13:40:42	15/10/2025 14:08:42	00:28:00
Not fixed	15/10/2025 14:08:42	15/10/2025 14:28:42	00:20:00
Fixed	15/10/2025 14:28:42	15/10/2025 14:41:42	00:13:00
Not fixed	15/10/2025 14:41:42	15/10/2025 14:42:12	00:00:30
Fixed	15/10/2025 14:42:12	15/10/2025 14:42:42	00:00:30
Not fixed	15/10/2025 14:42:42	15/10/2025 14:46:42	00:04:00
Fixed	15/10/2025 14:46:42	15/10/2025 15:38:42	00:52:00
Not fixed	15/10/2025 15:38:42	15/10/2025 15:45:42	00:07:00