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- when it has to be right

GNSS Processing Report - Summary

Report created: 22/09/2025 22:04:50

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	CARTUJA	Customer Name:	-	Coordinate System Name:	MAGNA SIRGAS
Owner:	-	Contact Person:	-	Transformation Type:	-
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	22/09/2025 21:55:12	Email:	-	Ellipsoid:	GRS 1980
Last Accessed:	22/09/2025 21:55:13	Skype:	-	Projection Type:	Transverse Mercator
Application Software:	Infinity 4.1.1	Website:	-	Geoid Model:	-
				CSCS Model:	-

Path:	C:\Users\Carol\Documents\Leica Geosystems\Infinity\Projects\CARTUJA\CARTUJA.iprj
Size:	10,2 MB
Comments:	-

Baseline ABCC - GPS1

Processing Parameters (12/09/2025 08:43:42 - 12/09/2025 10:15:12)

Data	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2	
Sampling Rate:	Use All	30,00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS	
Ephemeris Type:	Precise	Precise	
Antenna Calibration Set:	Leica Absolute	Leica 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: ABCC - GPS1

Acquisition

Start Time - End Time:	12/09/2025 08:43:42 - 12/09/2025 10:15:12
Duration:	01:31:30

Antennas

	Reference - ABCC	Rover - GPS1
Receiver Name / SN:	LEICA GRX1200GGPRO / 355240	TRIMBLE 5800 / 4449141102
Antenna Name / SN:	LEIAT504GG LEIS / 200457	TRM5800 / -
Carrier Offset:	-	0,000 m
Height Reading:	0,097 m	1,650 m
Antenna Height:	0,097 m	1,650 m

Phase Center Offset

	Reference - LEIAT504GG LEIS		Rover - Unknown	
GPS	**L1**	**L2**	**L1**	**L2**
East	0,000 m	0,000 m	-	-
North	0,000 m	0,000 m	-	-
Up	0,087 m	0,118 m	-	-

Coordinates

	Reference - ABCC	Rover - GPS1		Reference - ABCC	Rover - GPS1
Point Role:	Control	Fixed PP			
WGS84 Latitude:	4° 39' 40,44971" N	4° 42' 04,17660" N	Northing:	2.073.161,256 m	2.077.589,307 m
WGS84 Longitude:	74° 07' 36,92008" W	74° 12' 44,59514" W	Easting:	4.875.055,760 m	4.865.586,308 m
WGS84 Ellip. Height:	2.576,153 m	2.567,296 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1.739.437,968 m	1.730.210,761 m			
WGS84 Cartesian Y:	-6.117.252,370 m	-6.119.484,849 m			
WGS84 Cartesian Z:	515.065,177 m	519.466,390 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 02' 23,72689"	SD ΔLatitude:	0,000 m
ΔLongitude:	-0° 05' 07,67506"	SD ΔLongitude:	0,001 m
ΔHeight:	-8,857 m	SD ΔHeight:	0,004 m
ΔX:	-9.227,206 m	SD ΔX:	0,001 m
ΔY:	-2.232,479 m	SD ΔY:	0,004 m
ΔZ:	4.401,214 m	SD ΔZ:	0,001 m
Slope Dist.:	10.464,033 m	SD Slope Dist.:	0,001 m

M0:	0,698 m	CQ 1D:	0,004 m
Q11:	0,00000225	CQ 2D:	0,001 m
Q12:	-0,00000707	CQ 3D:	0,004 m
Q22:	0,00002998		
Q13:	0,00000104		
Q23:	-0,00000433		
Q33:	0,00000087		

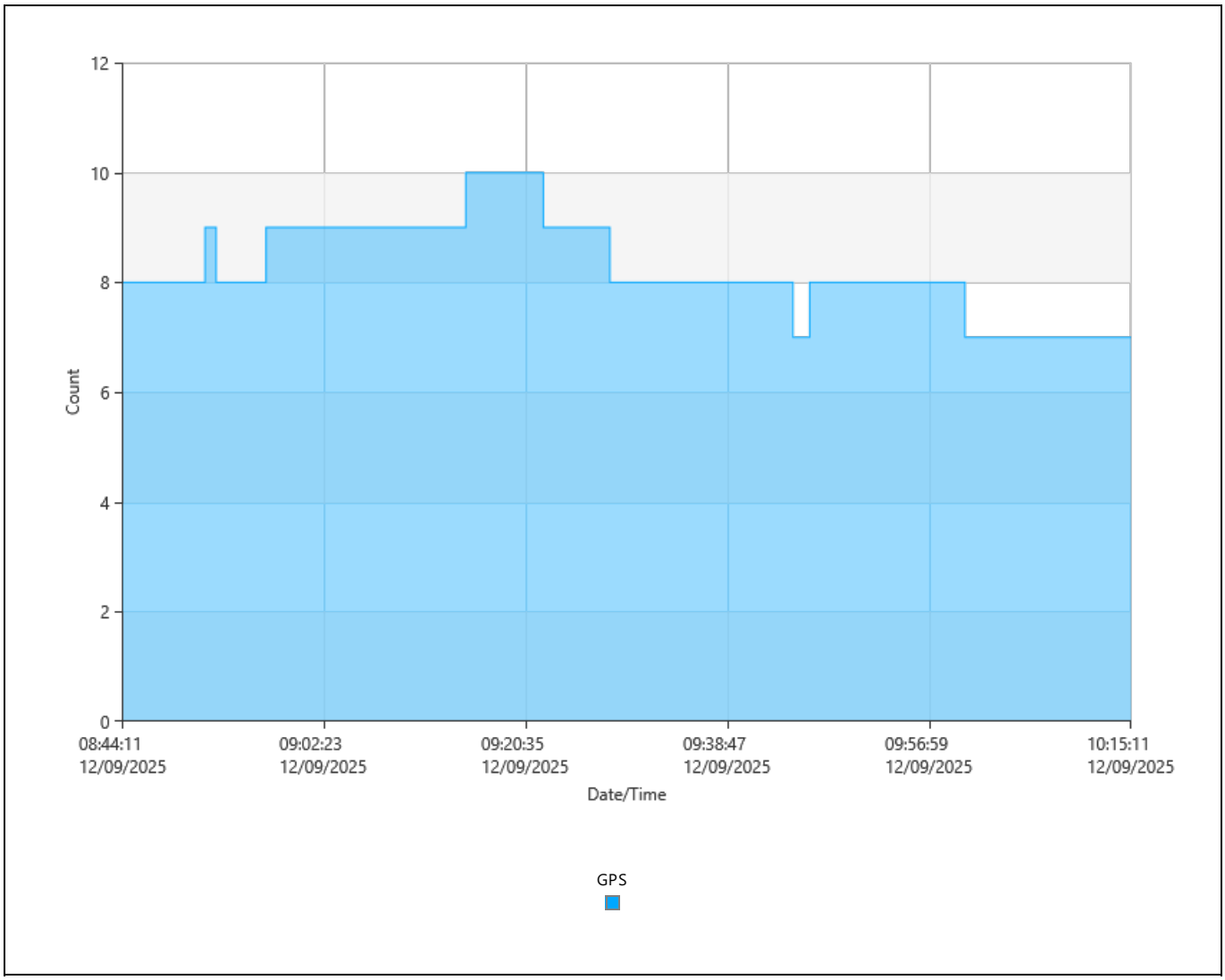
Frequency:	L1/L2	GDOP:	1,7 - 2,4	GPS SVs:	10/10
Solution Optimisation:	None	PDOP:	1,5 - 2,1	GLONASS SVs:	-
Solution Type:	Phase Fixed	HDOP:	0,7 - 1,2	Beidou SVs:	-
		VDOP:	1,3 - 1,8	Galileo SVs:	-
				QZSS SVs:	-

Ephemeris Type:	
GPS	Precise

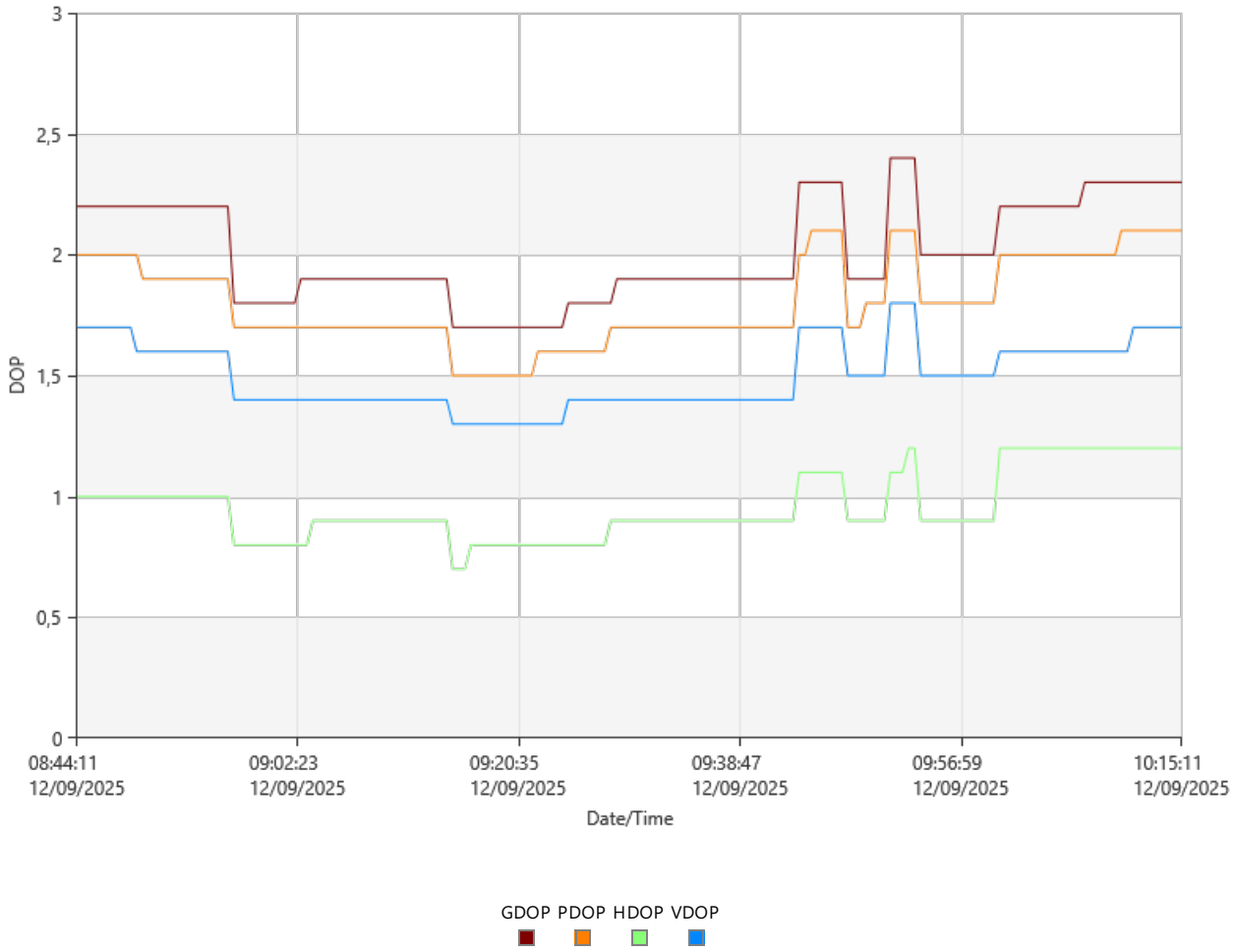
Processing Info (12/09/2025 08:43:42 - 12/09/2025 10:15:12)

Processed Date/Time:	22/09/2025 22:04:23

SVs Tracked


12
10
8
6
4
2
0
Count
08:44:11
12/09/2025
09:02:23
12/09/2025
09:20:35
12/09/2025
09:38:47
12/09/2025
09:56:59
12/09/2025
10:15:11
12/09/2025
Date/Time
GPS

DOP



Ambiguity Statistics

Number of Ambiguities	GPS
Fixed	26
Total	31
Independently fixed	97
Possible independently fixed	111

Average time between independent fixes: 00:00:30

% of Epochs	GPS	
	L1 [%]	L2 [%]
Fixed	99,47	99,80
Not fixed	0,53	0,20
Not fixed - contradiction	0,00	0,00
Not fixed - missing phase	0,00	0,00

Status	From Epoch	To Epoch	Duration
Not fixed	**12/09/2025 08:43:42**	**12/09/2025 08:44:42**	**00:01:00**
Fixed	12/09/2025 08:44:42	12/09/2025 10:15:12	01:30:30

Baseline BOGA - GPS1

Processing Parameters (12/09/2025 08:43:42 - 12/09/2025 10:15:12)

Data	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2	
Sampling Rate:	Use All	15,00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS	The DOP values exceeded a critical limit.

Ephemeris Type:	Precise	Precise
Antenna Calibration Set:	Leica Absolute	Leica Absolute

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	Iono Minimised
Frequency to use in Iono Minimised:	Automatic	L1/L2
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: BOGA - GPS1

Acquisition

Start Time - End Time:	12/09/2025 08:43:42 - 12/09/2025 10:15:12
Duration:	01:31:30

Antennas

	Reference - BOGA	Rover - GPS1
Receiver Name / SN:	TRIMBLE NETR9 / 5737R51046	TRIMBLE 5800 / 4449141102
Antenna Name / SN:	TRM59800.00 / 5518356153	TRM5800 / -
Carrier Offset:	-	0,000 m
Height Reading:	1,511 m	1,650 m
Antenna Height:	1,511 m	1,650 m

Coordinates

	Reference - BOGA	Rover - GPS1		Reference - BOGA	Rover - GPS1
Point Role:	Control	Fixed PP			
WGS84 Latitude:	4° 38' 19,26118" N	4° 42' 04,17652" N	Northing:	2.070.660,782 m	2.077.589,304 m
WGS84 Longitude:	74° 04' 47,81865" W	74° 12' 44,59456" W	Easting:	4.880.260,531 m	4.865.586,326 m
WGS84 Ellip. Height:	2.609,664 m	2.567,246 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1.744.517,110 m	1.730.210,765 m			
WGS84 Cartesian Y:	-6.116.050,895 m	-6.119.484,796 m			
WGS84 Cartesian Z:	512.581,208 m	519.466,384 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 03' 44,91534"	SD ΔLatitude:	0,000 m
ΔLongitude:	-0° 07' 56,77591"	SD ΔLongitude:	0,001 m
ΔHeight:	-42,418 m	SD ΔHeight:	0,004 m
ΔX:	-14.306,345 m	SD ΔX:	0,001 m
ΔY:	-3.433,902 m	SD ΔY:	0,004 m
ΔZ:	6.885,176 m	SD ΔZ:	0,001 m
Slope Dist.:	16.244,040 m	SD Slope Dist.:	0,001 m

M0:	0,229 m	CQ 1D:	0,004 m
Q11:	0,00002003	CQ 2D:	0,001 m
Q12:	-0,00006294	CQ 3D:	0,004 m
Q22:	0,00026702		
Q13:	0,00000922		

Q23:	-0,00003861
Q33:	0,00000779

Frequency:	L1/L2	GDOP:	1,7 - 2,7	GPS SVs:	10/10
Solution Optimisation:	Iono Minimised	PDOP:	1,5 - 2,4	GLONASS SVs:	-
Solution Type:	Phase Fixed	HDOP:	0,7 - 1,4	Beidou SVs:	-
		VDOP:	1,3 - 1,9	Galileo SVs:	-
				QZSS SVs:	-

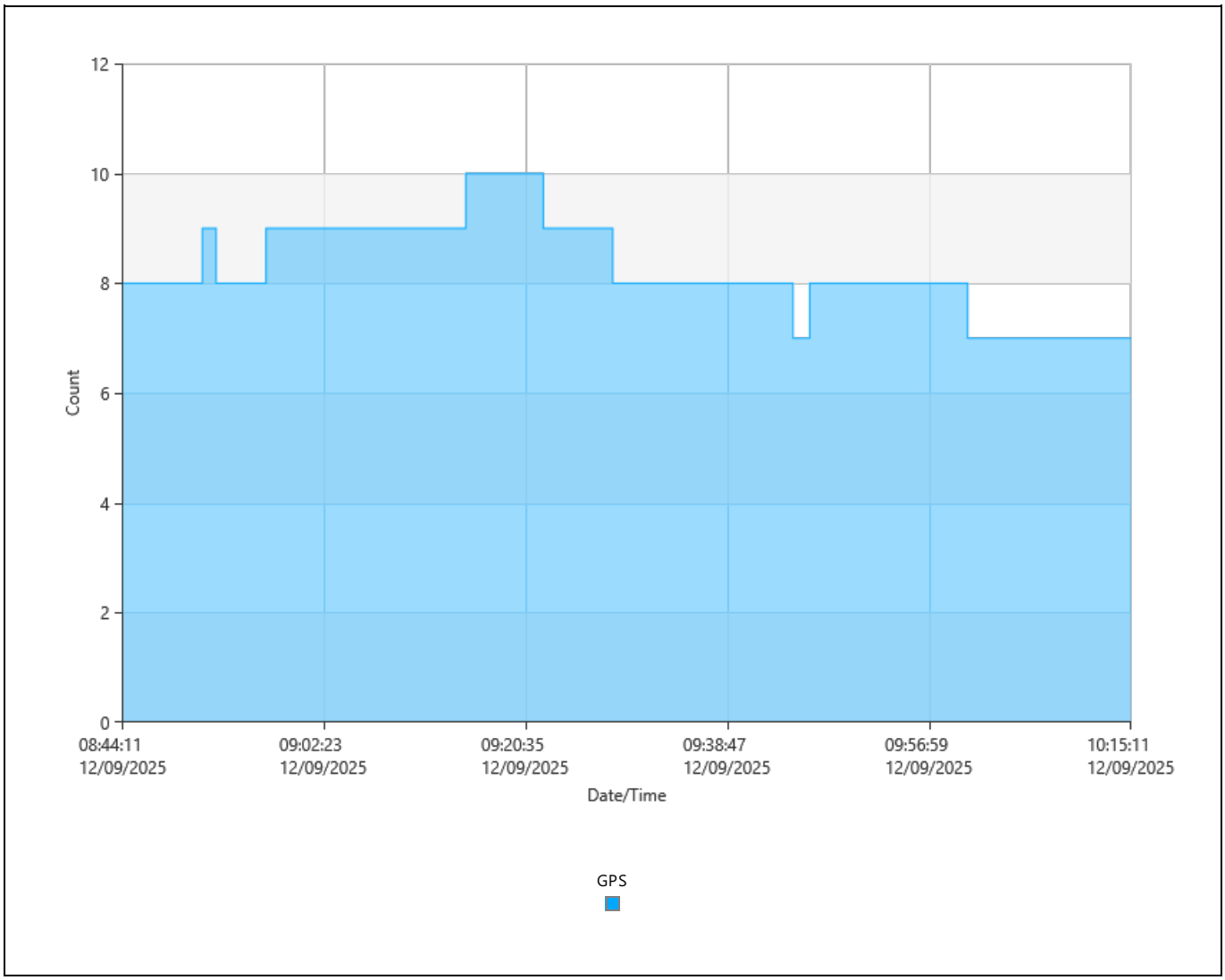
Ephemeris Type:

GPS Precise

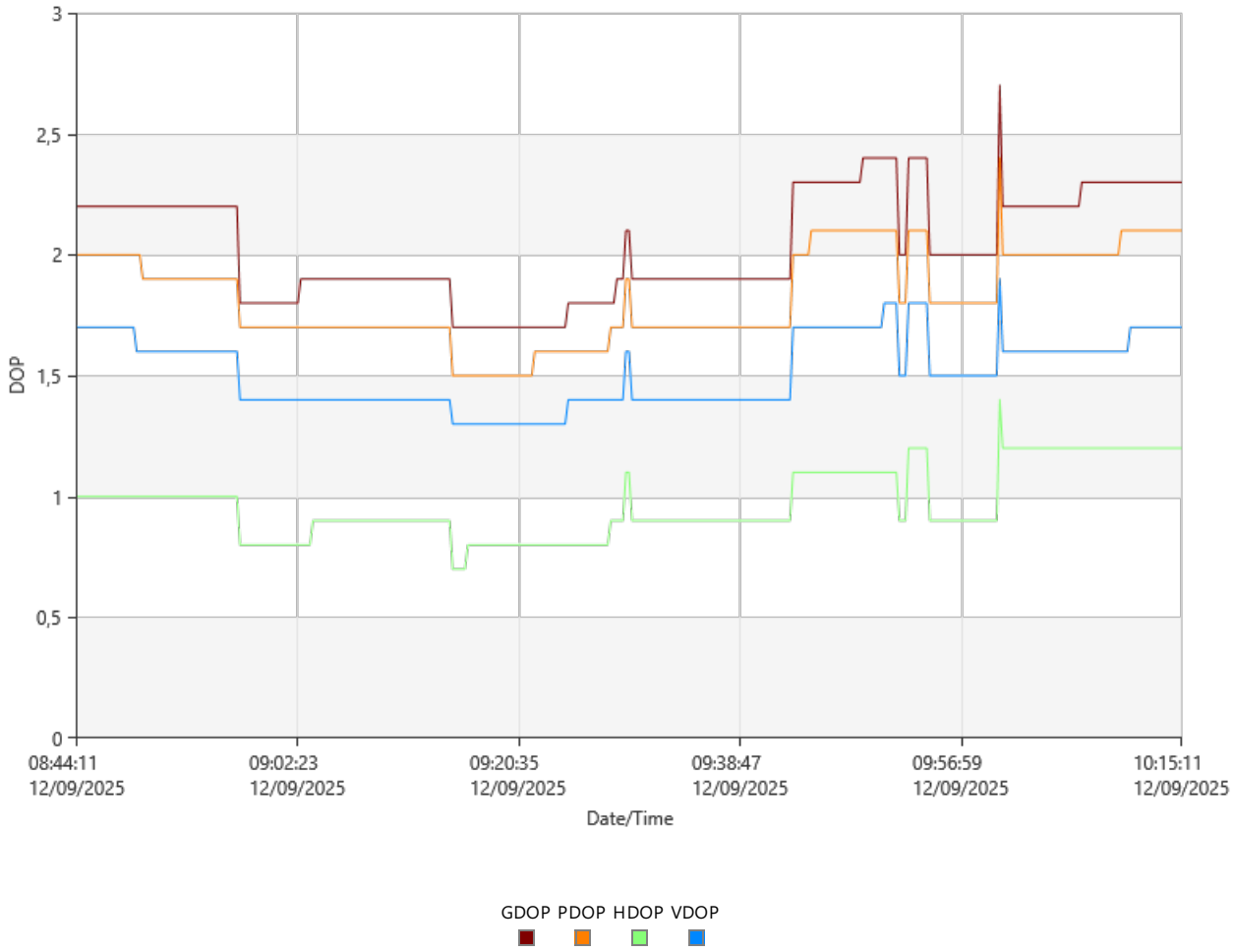
Processing Info (12/09/2025 08:43:42 - 12/09/2025 10:15:12)

Processed Date/Time: 22/09/2025 22:04:23

SVs Tracked



DOP



Ambiguity Statistics

Number of Ambiguities	GPS
Fixed	27
Total	34
Independently fixed	208
Possible independently fixed	208

Average time between independent fixes: 00:00:15

% of Epochs	GPS	
	L1 [%]	L2 [%]
Fixed	99,67	99,93
Not fixed	0,33	0,07
Not fixed - contradiction	0,00	0,00
Not fixed - missing phase	0,00	0,00

Status	From Epoch	To Epoch	Duration
Not fixed	**12/09/2025 08:43:42**	**12/09/2025 08:44:27**	**00:00:45**
Fixed	12/09/2025 08:44:27	12/09/2025 10:15:12	01:30:45

Baseline ABCC - GPS2

Processing Parameters (12/09/2025 10:26:42 - 12/09/2025 11:55:57)

Data	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2	
Sampling Rate:	Use All	30,00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS	

Ephemeris Type:	Precise	Precise
Antenna Calibration Set:	Leica Absolute	Leica Absolute

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	None
Frequency to use in Iono Minimised:	Automatic	Automatic
Tropospheric Model:	Automatic	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: ABCC - GPS2

Acquisition

Start Time - End Time:	12/09/2025 10:26:42 - 12/09/2025 11:55:42
Duration:	01:29:00

Antennas

	Reference - ABCC	Rover - GPS2
Receiver Name / SN:	LEICA GRX1200GGPRO / 355240	5800 / 4449141102
Antenna Name / SN:	LEIAT504GG LEIS / 200457	TRM5800 / -
Carrier Offset:	-	0,000 m
Height Reading:	0,097 m	1,650 m
Antenna Height:	0,097 m	1,650 m

Phase Center Offset

	Reference - LEIAT504GG LEIS		Rover - Unknown	
GPS	**L1**	**L2**	**L1**	**L2**
East	0,000 m	0,000 m	-	-
North	0,000 m	0,000 m	-	-
Up	0,087 m	0,118 m	-	-

Coordinates

	Reference - ABCC	Rover - GPS2		Reference - ABCC	Rover - GPS2
Point Role:	Control	Fixed PP			
WGS84 Latitude:	4° 39' 40,44971" N	4° 42' 05,69634" N	Northing:	2.073.161,256 m	2.077.636,044 m
WGS84 Longitude:	74° 07' 36,92008" W	74° 12' 46,13195" W	Easting:	4.875.055,760 m	4.865.539,054 m
WGS84 Ellip. Height:	2.576,153 m	2.567,484 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1.739.437,968 m	1.730.164,177 m			
WGS84 Cartesian Y:	-6.117.252,370 m	-6.119.494,237 m			
WGS84 Cartesian Z:	515.065,177 m	519.512,950 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 02' 25,24663"	SD ΔLatitude:	0,000 m
ΔLongitude:	-0° 05' 09,21187"	SD ΔLongitude:	0,001 m
ΔHeight:	-8,669 m	SD ΔHeight:	0,001 m
ΔX:	-9.273,791 m	SD ΔX:	0,001 m
ΔY:	-2.241,867 m	SD ΔY:	0,001 m
ΔZ:	4.447,773 m	SD ΔZ:	0,000 m

Slope Dist.:	10.526,721 m	SD Slope Dist.:	0,001 m

M0:	0,874 m	CQ 1D:	0,001 m
Q11:	0,00000109	CQ 2D:	0,001 m
Q12:	-0,00000080	CQ 3D:	0,002 m
Q22:	0,00000190		
Q13:	-0,00000010		
Q23:	0,00000008		
Q33:	0,00000023		

Frequency:	L1/L2	GDOP:	2,1 - 3,2	GPS SVs:	8/8
Solution Optimisation:	None	PDOP:	1,9 - 2,8	GLONASS SVs:	-
Solution Type:	Phase Fixed	HDOP:	0,9 - 1,4	Beidou SVs:	-
		VDOP:	1,6 - 2,4	Galileo SVs:	-
				QZSS SVs:	-

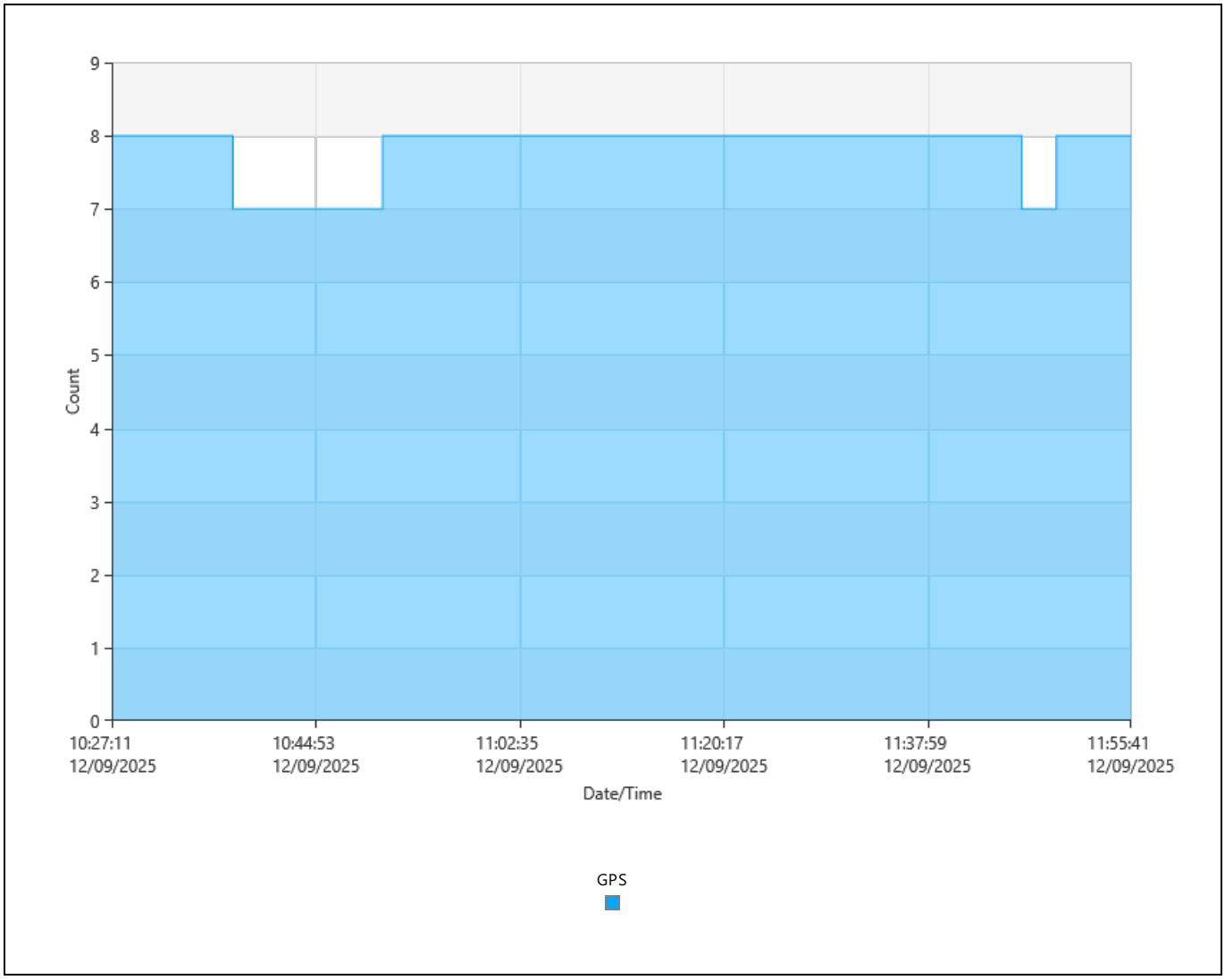
Ephemeris Type:

GPS	Precise

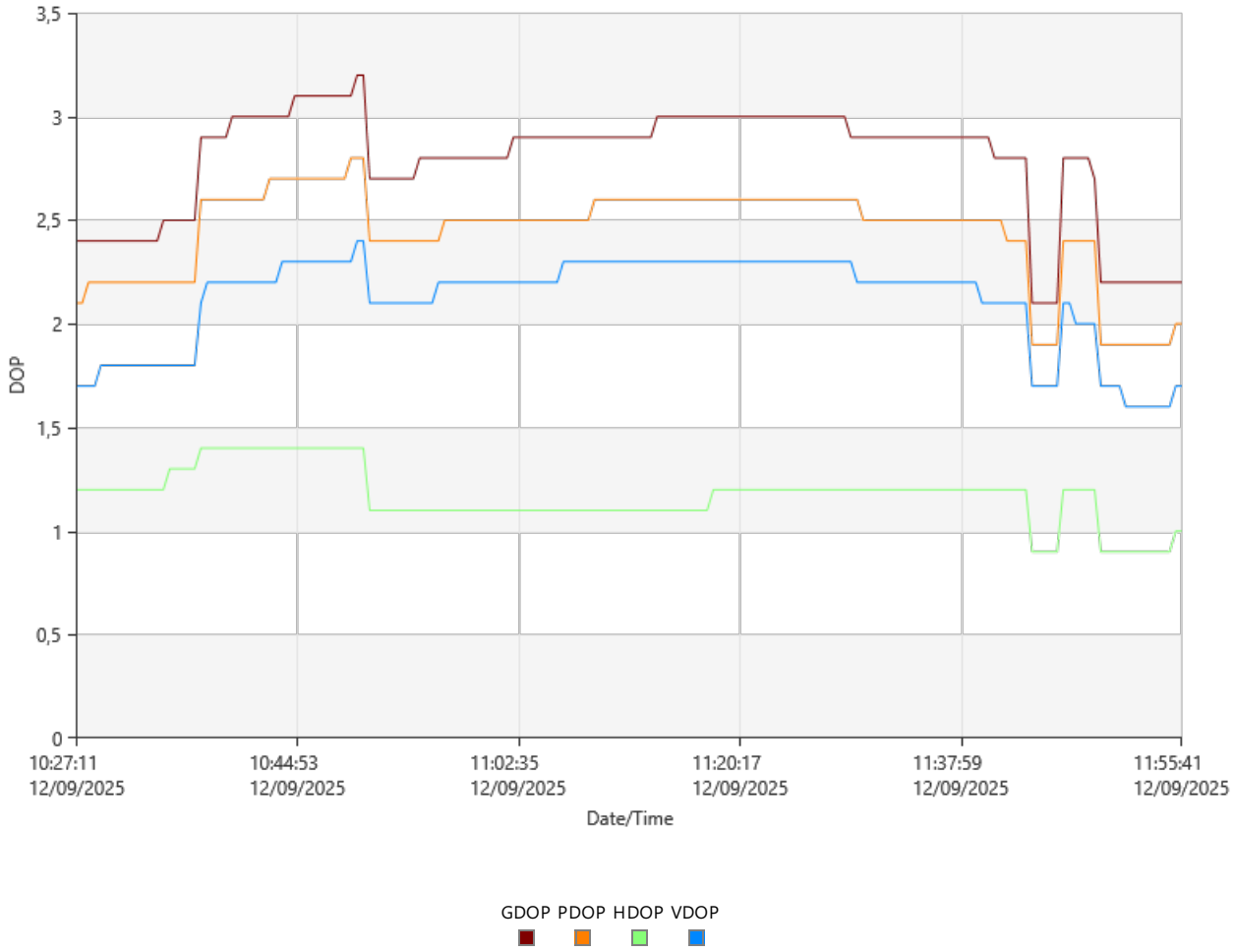
Processing Info (12/09/2025 10:26:42 - 12/09/2025 11:55:57)

Processed Date/Time:	22/09/2025 22:04:23

SVs Tracked



DOP



Ambiguity Statistics

Number of Ambiguities	GPS
Fixed	20
Total	25
Independently fixed	93
Possible independently fixed	95

Average time between independent fixes: 00:00:30

% of Epochs	GPS	
	L1 [%]	L2 [%]
Fixed	99,28	99,08
Not fixed	0,72	0,92
Not fixed - contradiction	0,00	0,00
Not fixed - missing phase	0,00	0,00

Status	From Epoch	To Epoch	Duration
Not fixed	**12/09/2025 10:26:42**	**12/09/2025 10:27:12**	**00:00:30**
Fixed	12/09/2025 10:27:12	12/09/2025 11:55:42	01:28:30

Baseline BOGA - GPS2

Processing Parameters (12/09/2025 10:26:42 - 12/09/2025 11:55:57)

Data	Selected	Used	Comments
Cut-Off Angle:	15°	15°	
Frequency:	Automatic	L1/L2	
Sampling Rate:	Use All	15,00 sec	
Satellite System:	GPS/GLONASS/Galileo/Beidou	GPS	

Ephemeris Type:	Precise	Precise
Antenna Calibration Set:	Leica Absolute	Leica Absolute

Processing Strategy

Solution Type:	Phase Fixed	Phase Fixed
Solution Optimisation:	Automatic	Iono Minimised
Frequency to use in Iono Minimised:	Automatic	L1/L2
Tropospheric Model:	Automatic	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: BOGA - GPS2

Acquisition

Start Time - End Time:	12/09/2025 10:26:42 - 12/09/2025 11:55:57
Duration:	01:29:15

Antennas

	Reference - BOGA	Rover - GPS2
Receiver Name / SN:	TRIMBLE NETR9 / 5737R51046	5800 / 4449141102
Antenna Name / SN:	TRM59800.00 / 5518356153	TRM5800 / -
Carrier Offset:	-	0,000 m
Height Reading:	1,511 m	1,650 m
Antenna Height:	1,511 m	1,650 m

Coordinates

	Reference - BOGA	Rover - GPS2		Reference - BOGA	Rover - GPS2
Point Role:	Control	Fixed PP			
WGS84 Latitude:	4° 38' 19,26118" N	4° 42' 05,69618" N	Northing:	2.070.660,782 m	2.077.636,039 m
WGS84 Longitude:	74° 04' 47,81865" W	74° 12' 46,13159" W	Easting:	4.880.260,531 m	4.865.539,065 m
WGS84 Ellip. Height:	2.609,664 m	2.567,432 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1.744.517,110 m	1.730.164,173 m			
WGS84 Cartesian Y:	-6.116.050,895 m	-6.119.494,185 m			
WGS84 Cartesian Z:	512.581,208 m	519.512,940 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 03' 46,43500"	SD ΔLatitude:	0,000 m
ΔLongitude:	-0° 07' 58,31294"	SD ΔLongitude:	0,001 m
ΔHeight:	-42,232 m	SD ΔHeight:	0,001 m
ΔX:	-14.352,937 m	SD ΔX:	0,001 m
ΔY:	-3.443,290 m	SD ΔY:	0,001 m
ΔZ:	6.931,732 m	SD ΔZ:	0,000 m
Slope Dist.:	16.306,807 m	SD Slope Dist.:	0,001 m

M0:	0,272 m	CQ 1D:	0,001 m
Q11:	0,00000951	CQ 2D:	0,001 m
Q12:	-0,00000695	CQ 3D:	0,001 m
Q22:	0,00001665		
Q13:	-0,00000081		

Q23:	0,00000067
Q33:	0,00000201

Frequency:	L1/L2	GDOP:	2,1 - 3,2	GPS SVs:	8/8
Solution Optimisation:	Iono Minimised	PDOP:	1,9 - 2,8	GLONASS SVs:	-
Solution Type:	Phase Fixed	HDOP:	0,9 - 1,5	Beidou SVs:	-
		VDOP:	1,6 - 2,4	Galileo SVs:	-
				QZSS SVs:	-

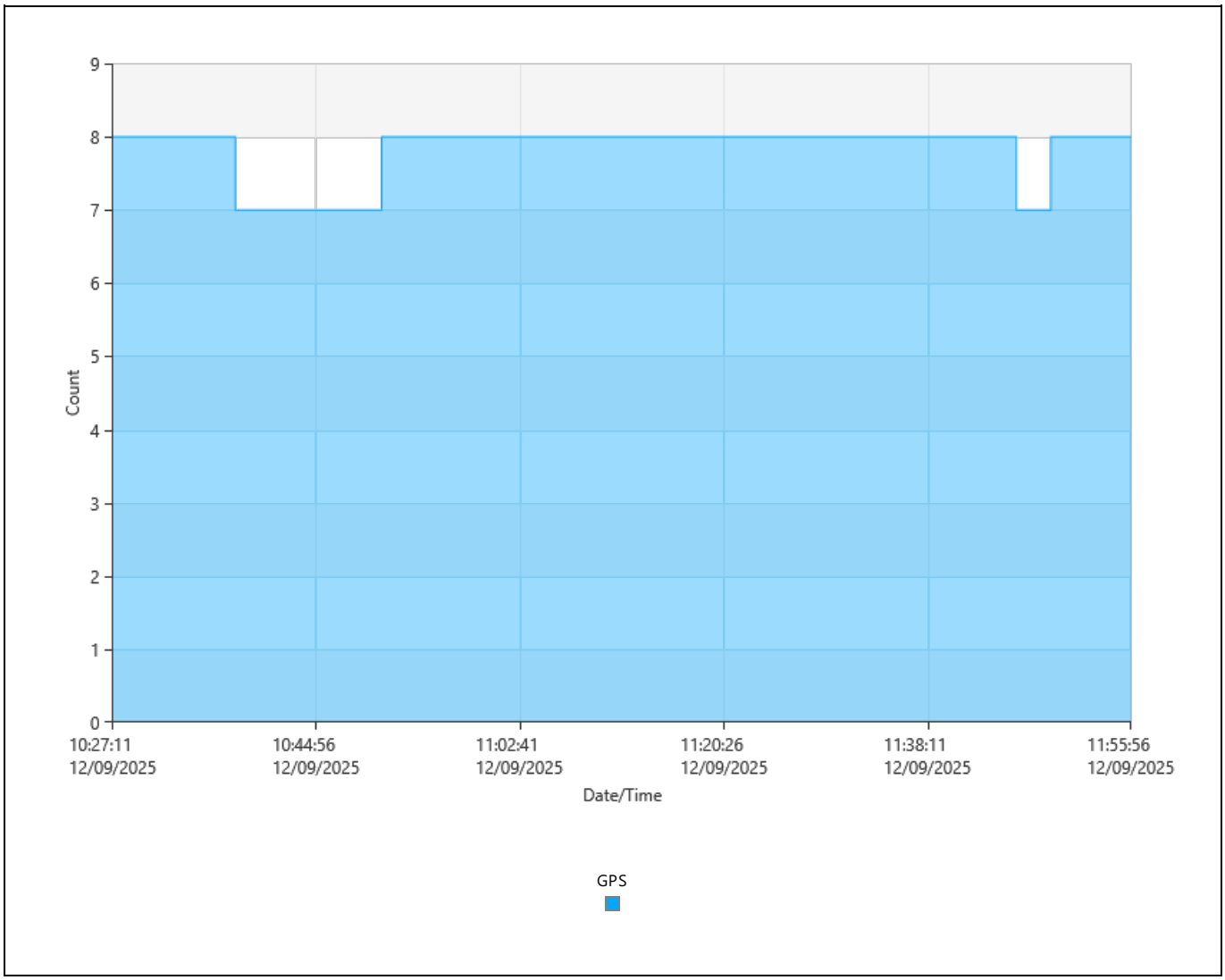
Ephemeris Type:

GPS	Precise

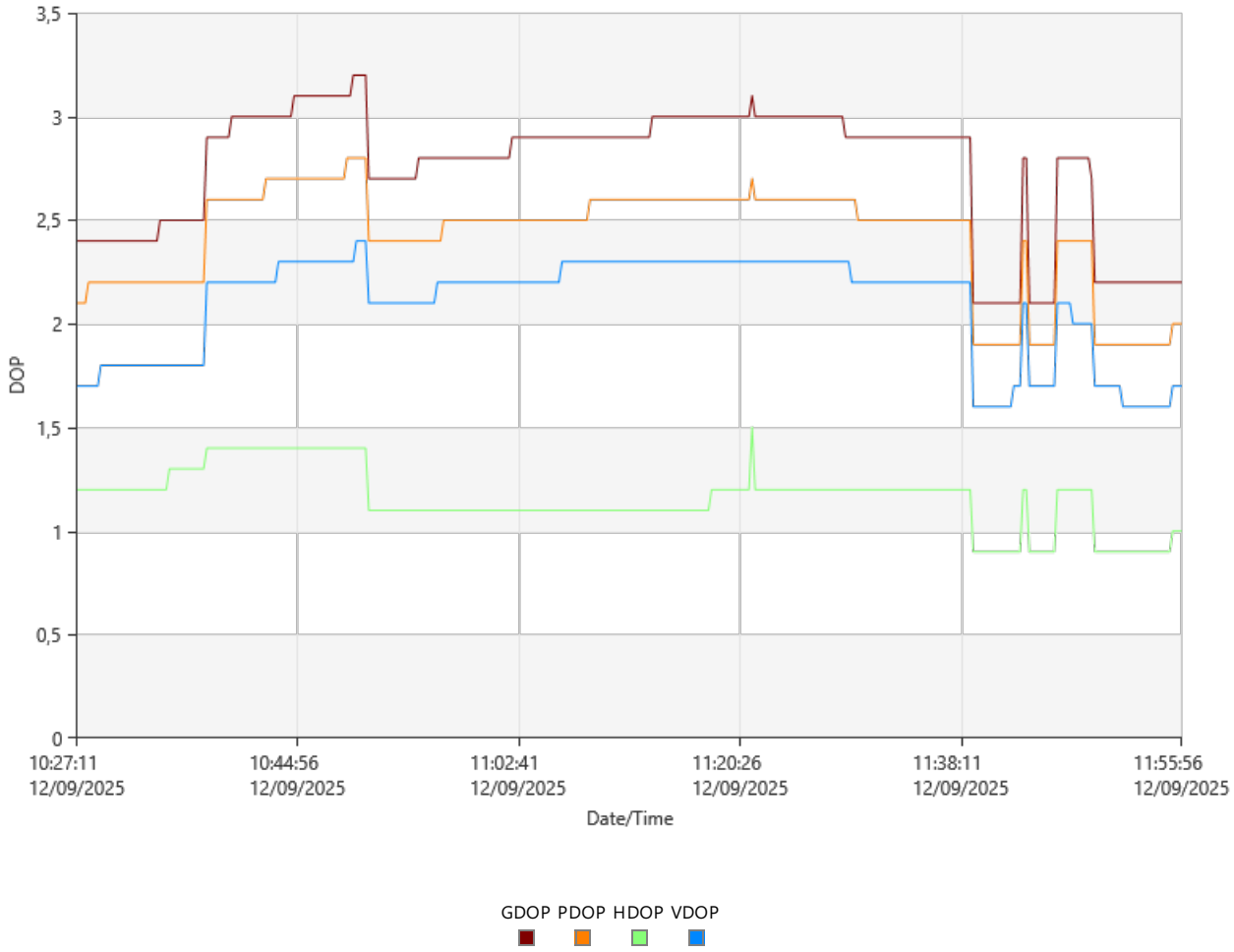
Processing Info (12/09/2025 10:26:42 - 12/09/2025 11:55:57)

Processed Date/Time:	22/09/2025 22:04:23

SVs Tracked



DOP



Ambiguity Statistics

Number of Ambiguities	GPS
Fixed	24
Total	28
Independently fixed	258
Possible independently fixed	258

Average time between independent fixes: 00:00:30

% of Epochs	GPS	
	L1 [%]	L2 [%]
Fixed	99,96	99,80
Not fixed	0,04	0,20
Not fixed - contradiction	0,00	0,00
Not fixed - missing phase	0,00	0,00

Status	From Epoch	To Epoch	Duration
Not fixed	**12/09/2025 10:26:42**	**12/09/2025 10:27:12**	**00:00:30**
Fixed	12/09/2025 10:27:12	12/09/2025 11:55:57	01:28:45