

Leica Geosystems AG

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- when it has to be **right**



GNSS Processing Report - Summary

Report created: 18/10/2025 13:50:10

Project Details

General		Customer Details		Master Coordinate System	
Project Name:	SJN 20251011	Customer Name:	-	Coordinate System Name:	MAGNA SIRGAS
Owner:	-	Contact Person:	-	Transformation Type:	-
Lead Surveyor:	-	Number:	-	Residual Distribution:	None
Date Created:	17/10/2025 09:14:59	Email:	-	Ellipsoid:	GRS 1980
Last Accessed:	18/10/2025 13:39:44	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\20251011 SJN\SJN 20251011\SJN 20251011.iprj				
Size:	249.0 MB				
Comments:	-				

Baseline SONE - HG17

Processing Parameters (11/10/2025 10:02:39 - 11/10/2025 14:05:35)

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: SONE - HG17**Acquisition**

Start Time - End Time: 11/10/2025 10:02:42 - 11/10/2025 14:05:27
 Duration: 04:02:45

Antennas

	Reference - SONE	Rover - HG17
Receiver Name / SN:	TRIMBLE ALLOY / 5947R40191	EFIX F7 / 3496834
Antenna Name / SN:	TRM159900.00 SCIS / 5945338868	TRM59800.00 SCIS / -
Carrier Offset:	0.0000 m	0.0000 m
Height Reading:	0.0350 m	2.0731 m
Antenna Height:	0.0350 m	2.0731 m

Phase Center Offset

	Reference - TRM159900.00 SCIS		Rover - TRM59800.00 SCIS	
GPS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	0.0002 m	-0.0001 m
North	0.0008 m	0.0004 m	0.0007 m	0.0003 m
Up	0.1118 m	0.1245 m	0.0866 m	0.1171 m

GLONASS	L1	L2	L1	L2
East	0.0000 m	0.0004 m	0.0005 m	0.0000 m
North	0.0008 m	0.0004 m	0.0006 m	0.0002 m
Up	0.1118 m	0.1245 m	0.0851 m	0.1144 m

Coordinates

	Reference - SONE	Rover - HG17		Reference - SONE	Rover - HG17
Point Role:	Control	Fixed PP			
WGS84 Latitude:	9° 43' 41.27" N	9° 56' 16.56" N	Easting:	4,723,076.8454 m	4,770,943.4678 m
WGS84 Longitude:	75° 31' 29.78" W	75° 05' 24.07" W	Northing:	2,634,004.7138 m	2,656,881.4025 m
WGS84 Ellip. Height:	23.8932 m	174.4919 m	Ortho. Height:	-	-
WGS84 Cartesian X:	1,571,501.5355 m	1,616,682.9277 m			
WGS84 Cartesian Y:	-6,087,475.0890 m	-6,071,684.6894 m			
WGS84 Cartesian Z:	1,070,626.5845 m	1,093,517.3051 m			

Baseline Vector and Quality - WGS84

ΔLatitude:	0° 12' 35.29"	SD ΔLatitude:	0.0007 m
ΔLongitude:	0° 26' 05.71"	SD ΔLongitude:	0.0007 m
ΔHeight:	150.5987 m	SD ΔHeight:	0.0126 m
ΔX:	45,181.3922 m	SD ΔX:	0.0033 m
ΔY:	15,790.3996 m	SD ΔY:	0.0120 m
ΔZ:	22,890.7206 m	SD ΔZ:	0.0023 m
Slope Dist.:	53,053.5580 m	SD Slope Dist.:	0.0007 m
M0:	0.7077 m	CQ 1D:	0.0126 m

Q11:	0.00002110	CQ 2D:	0.0010 m
Q12:	-0.00007598	CQ 3D:	0.0127 m
Q22:	0.00028774		
Q13:	0.00001410		
Q23:	-0.00005306		
Q33:	0.00001067		

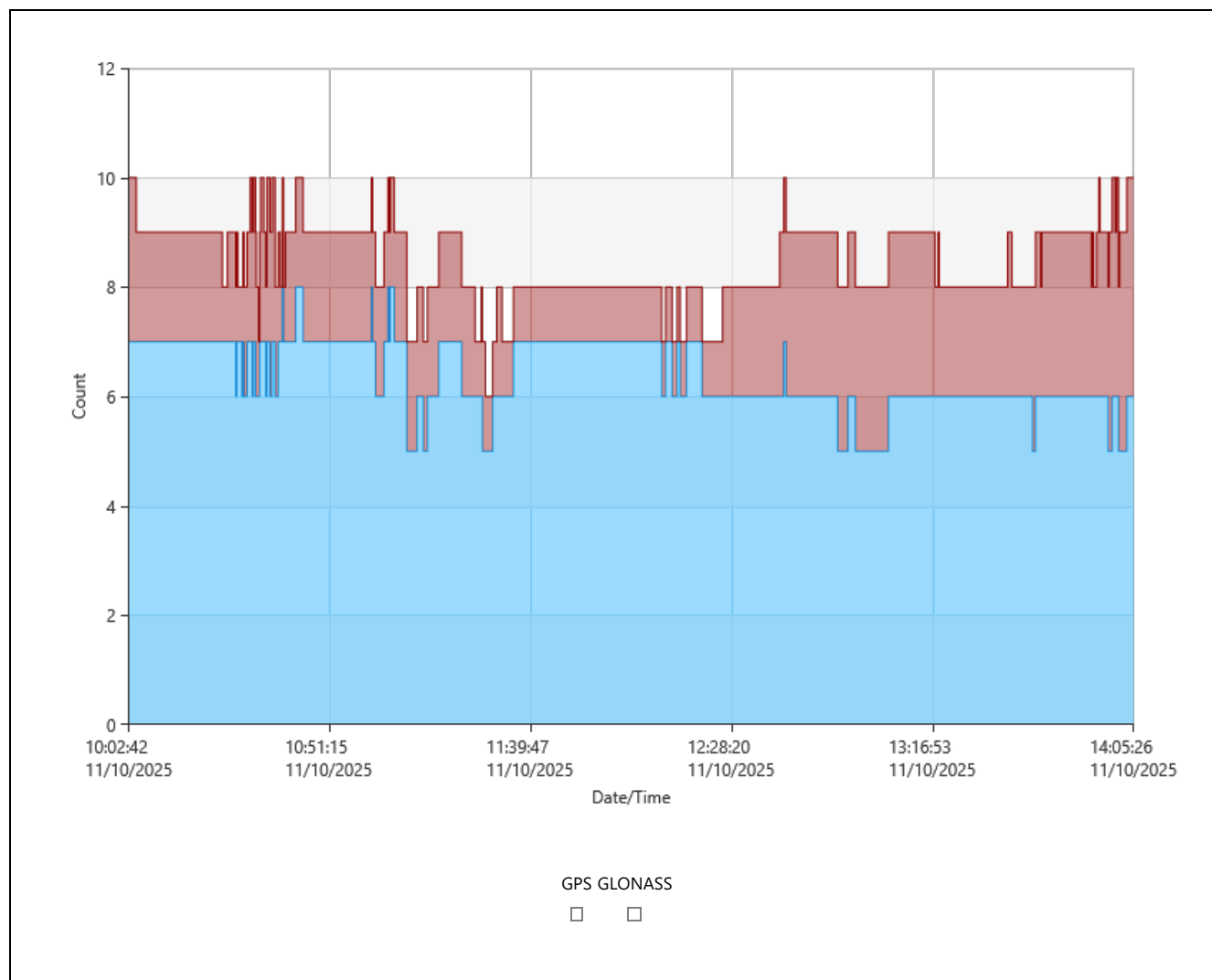
Frequency:	L1/L2/L5	GDOP:	3.2 - 11.5	GPS SVs:	7/8
Solution Optimisation:	Iono Minimised	PDOP:	2.4 - 7.7	GLONASS SVs:	4/4
Solution Type:	Phase Fixed	HDOP:	0.9 - 2.6	Beidou SVs:	-
		VDOP:	2.2 - 7.5	Galileo SVs:	-
				QZSS SVs:	-

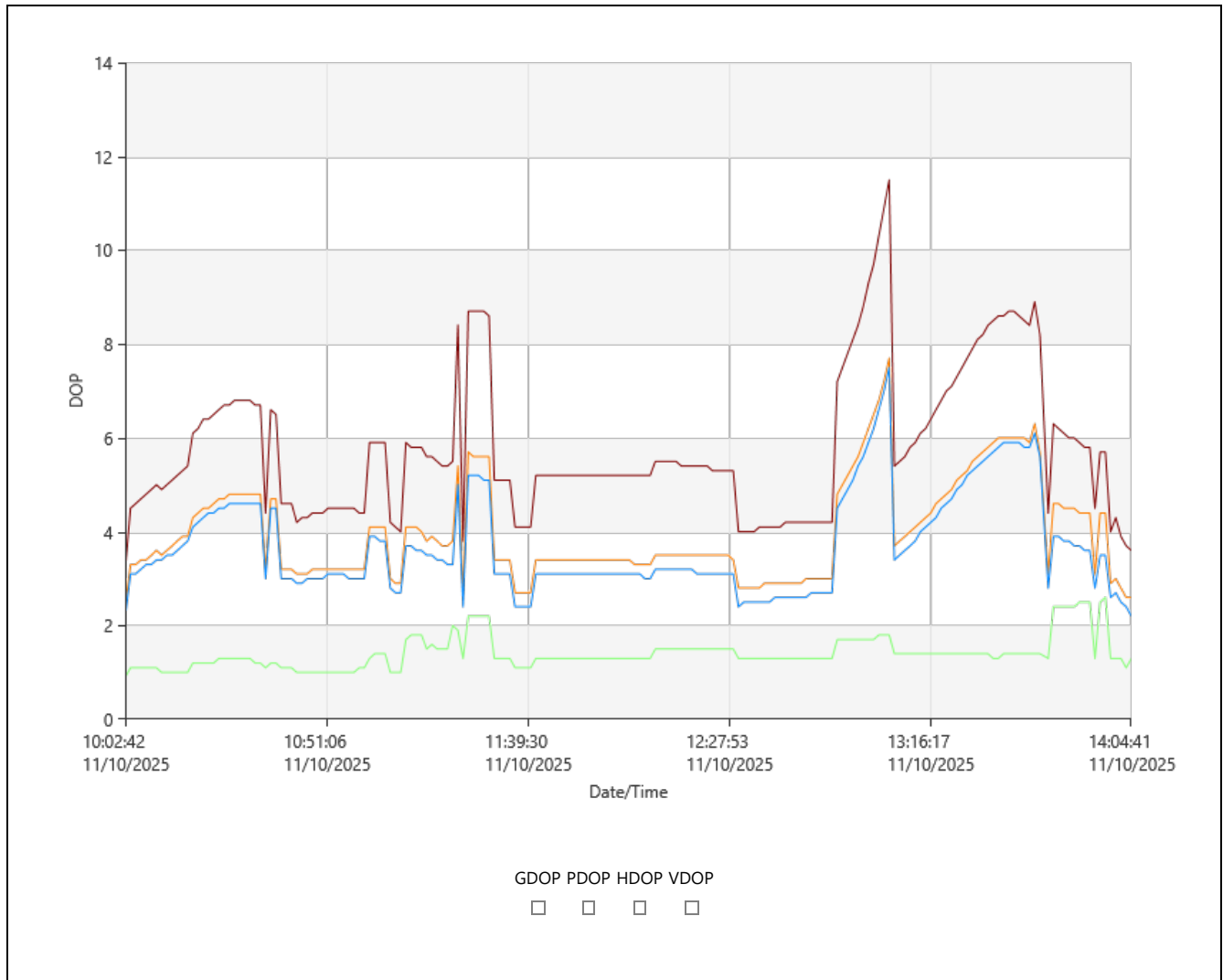
Ephemeris Type:

GPS	Broadcast
GLONASS	Broadcast

Processing Info (11/10/2025 10:02:39 - 11/10/2025 14:05:35)

Processed Date/Time: 18/10/2025 13:50:04

SVs Tracked

DOP**Ambiguity Statistics**

Number of Ambiguities	GPS	GLONASS	Galileo
Fixed	73	19	0
Total	115	138	0
Independently fixed	351	350	0
Possible independently fixed	376	376	376

Average time between independent fixes: 00:02:00

% of Epochs	GPS			GLONASS	
	L1 [%]	L2 [%]	L5 [%]	L1 [%]	L2 [%]
Fixed	88.35	88.82	88.20	83.48	87.37
Not fixed	1.11	2.31	0.52	16.36	12.46
Not fixed - contradiction	10.54	8.77	11.28	0.00	0.00
Not fixed - missing phase	0.00	0.10	0.00	0.16	0.16