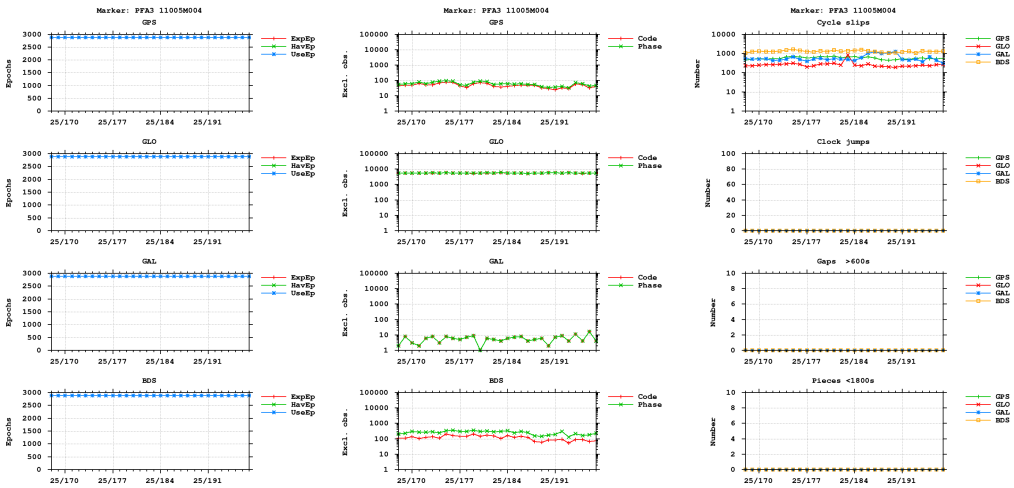
GNSS observation file monitoring for PFA3

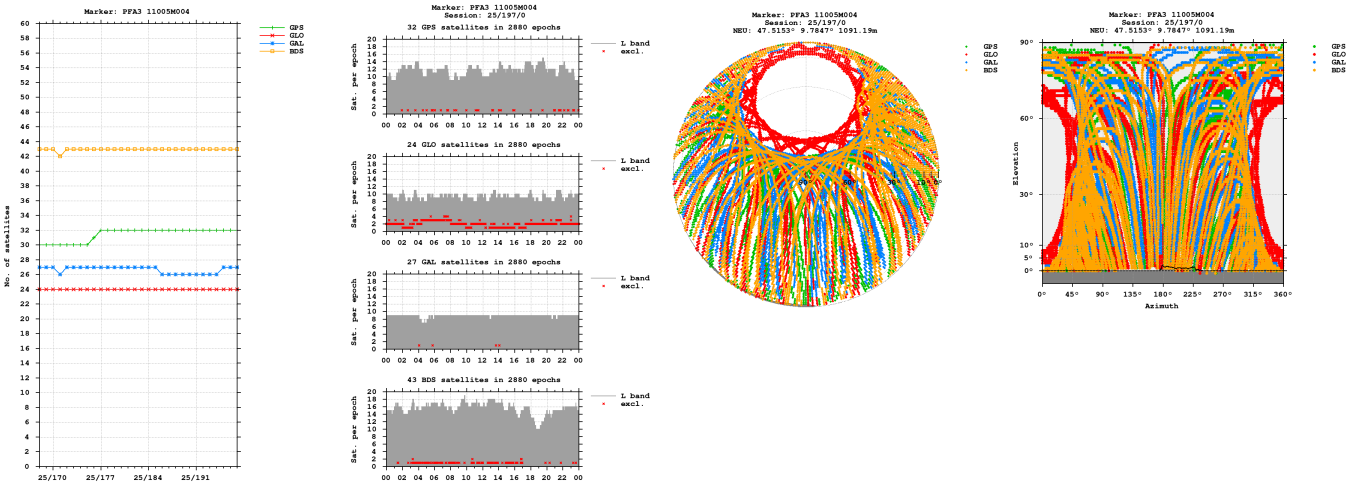
Last RINEX file: PFA31970.25D.Z
RINEX version: 3.05
Marker: PFA3 11005M004
Receiver: 1705320 LEICA GR30 4.82/7.900
Antenna: 09480016 LEIAR25.R3 LEIT

Epochs

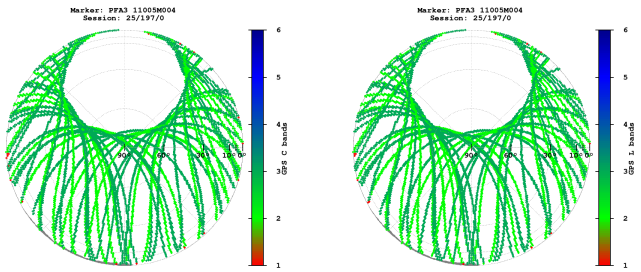


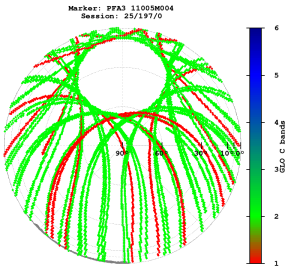
- "UseEp": The usable epoch is introduced if four or more satellites are observed with the minimum of two frequencies.
- Cycle slip detection algorithm is based on Melbourne-Wübbena and geometry-free LC.

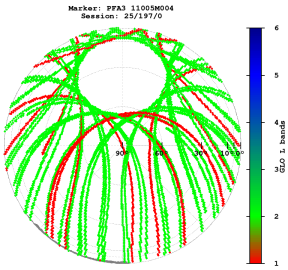
Satellites

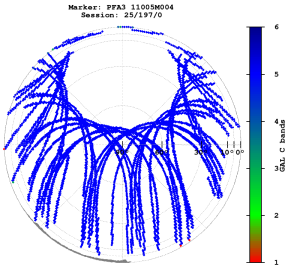


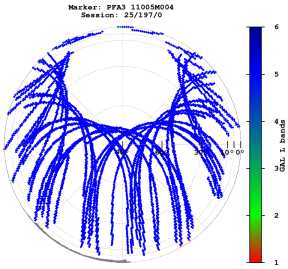
Bands




Marker: PFA3 11005M004
Session: 25/197/0
GLO C bands


Marker: PFA3 11005M004
Session: 25/197/0
GLO L bands


Marker: PFA3 11005M004
Session: 25/197/0
GAL C bands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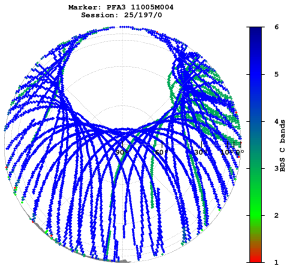
Session: 25/197/0
GAL L bands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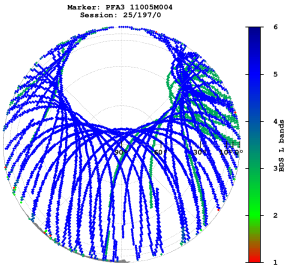
Session: 25/197/0
BDS C bands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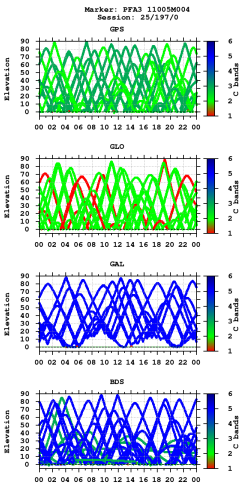
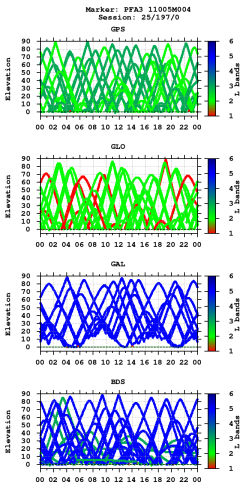
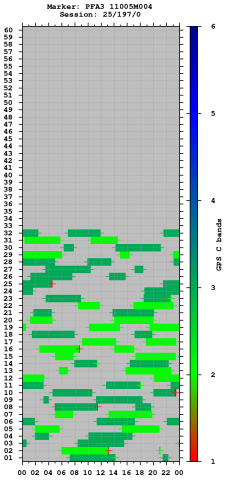
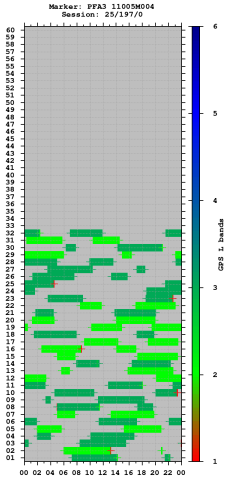
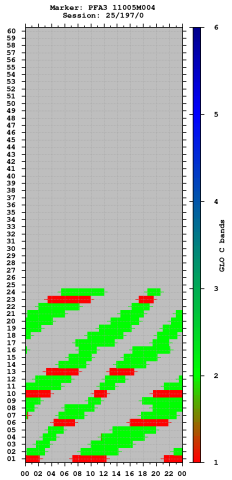
Session: 25/197/0
BDS L bands

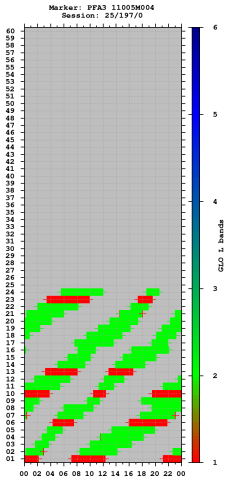

Marker: PFA3 11005M004
Session: 25/197/0
GPS
GLO
GAL
BDS
Elevation
C bands

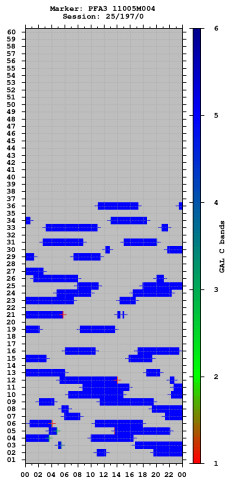

Marker: PFA3 11005M004
Session: 25/197/0
GPS
GLO
GAL
BDS
Elevation
L bands

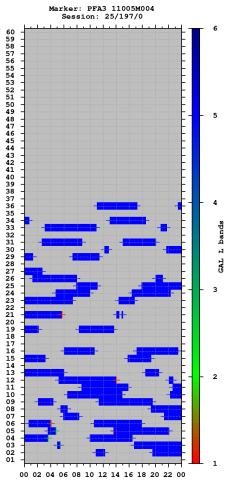

Marker: PFA3 11005M004
Session: 25/197/0
GPS C bands

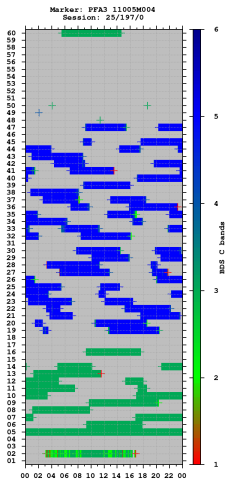

Marker: PFA3 11005M004
Session: 25/197/0
GPS L bands

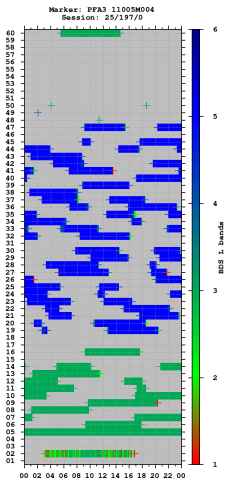




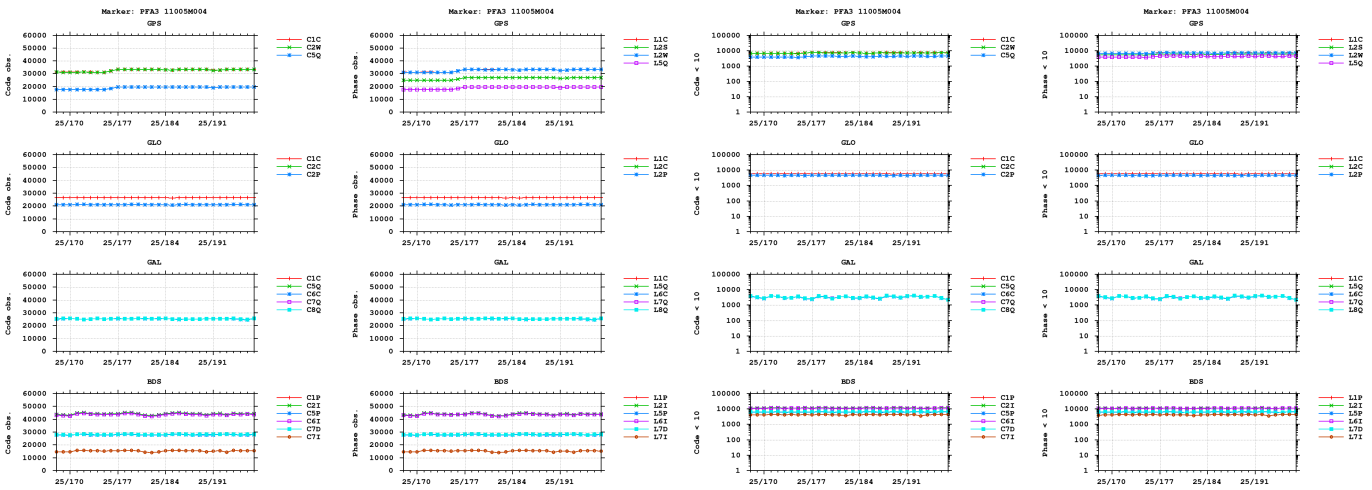




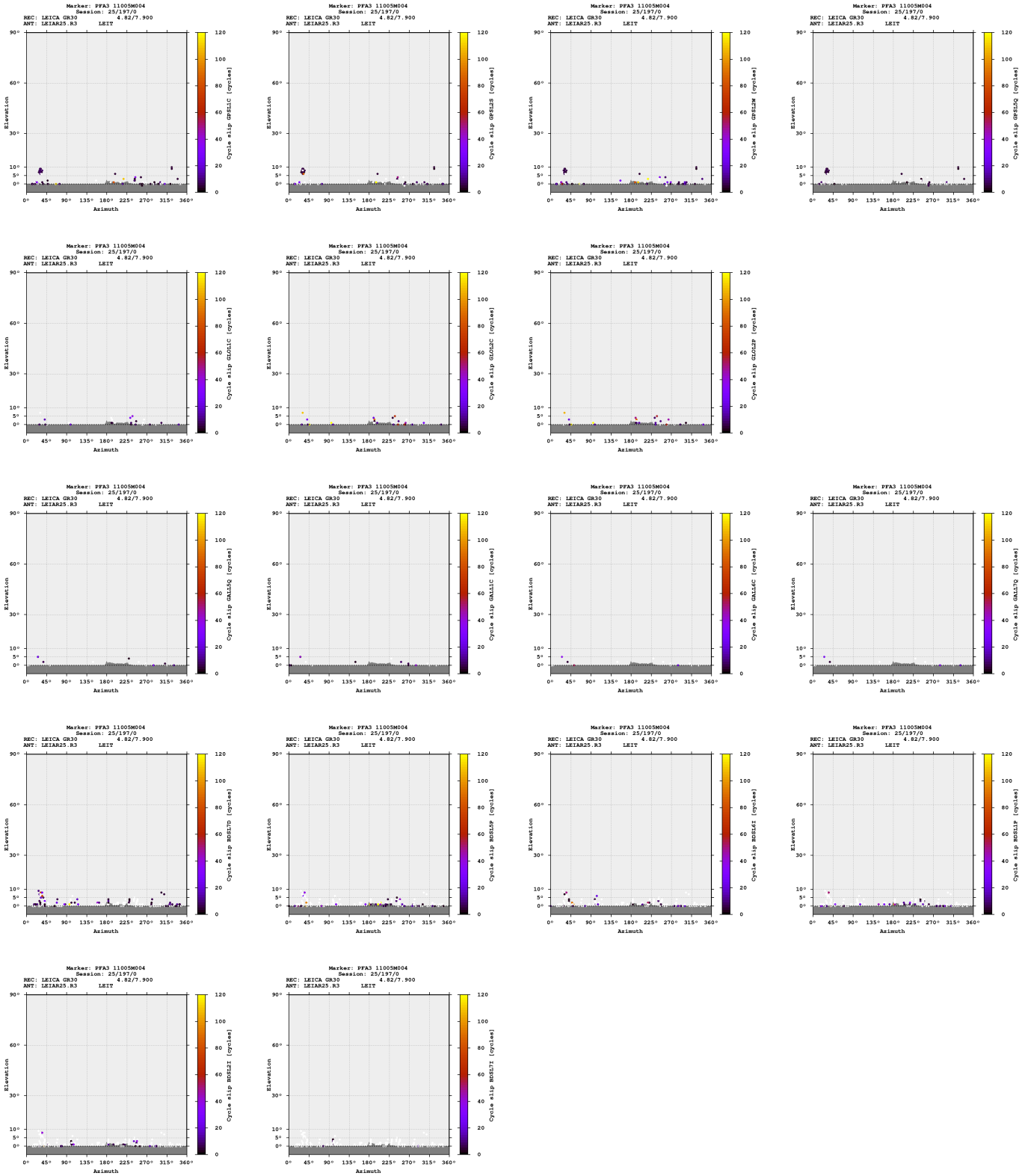


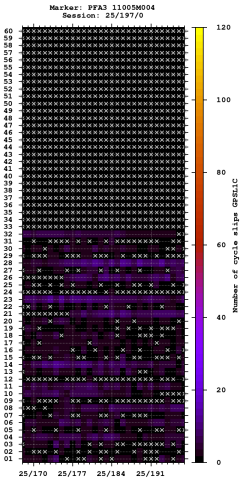


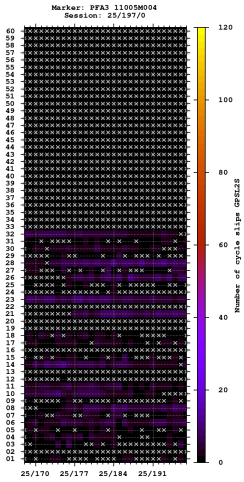
Observations

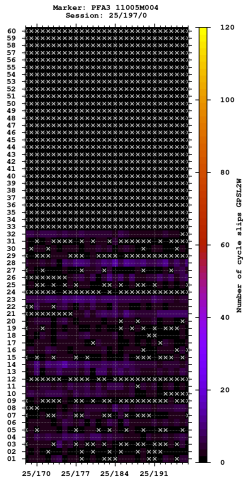


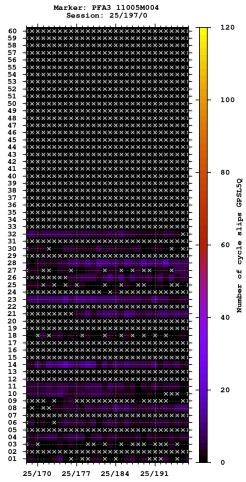
Cycle slips

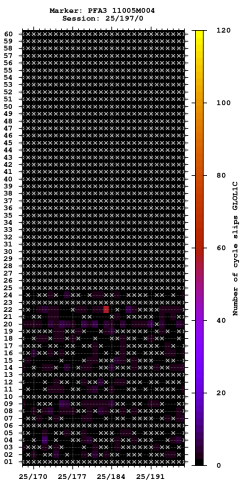

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Cycle slip

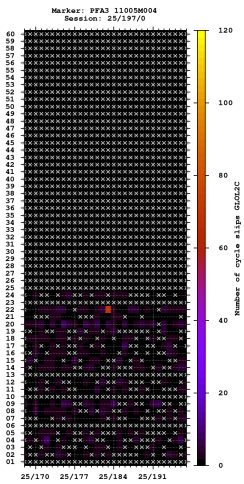

Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GPSL1C
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GPSL2S
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GPSL2W
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GPSL5Q
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GLOL1C
25/170 25/177 25/184 25/191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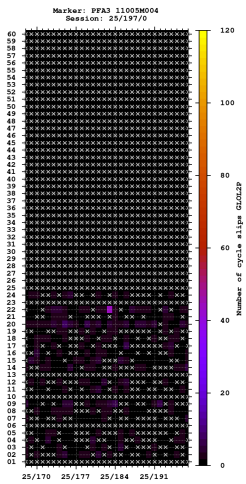
Session: 25/197/0
Number of cycle slips GLOL2C
25/170 25/177 25/184 25/191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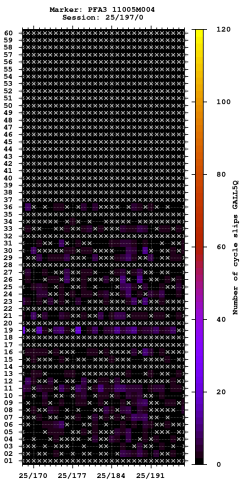
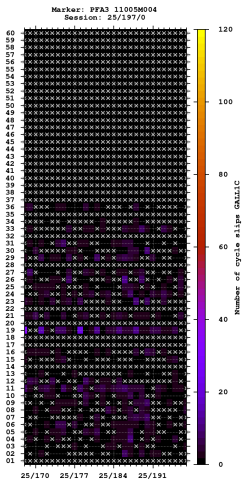
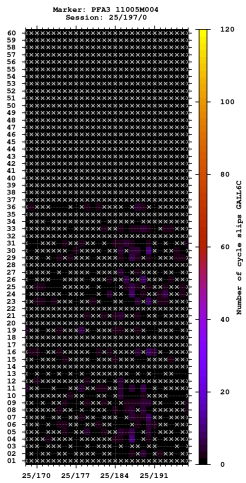
Session: 25/197/0
Number of cycle slips GLOL2P
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GAL5Q
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GAL1C
25/170 25/177 25/184 25/191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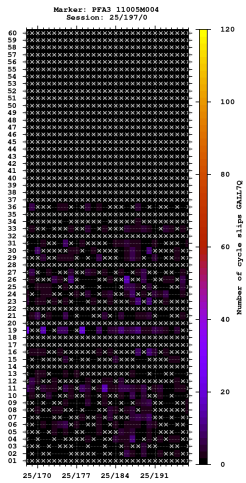
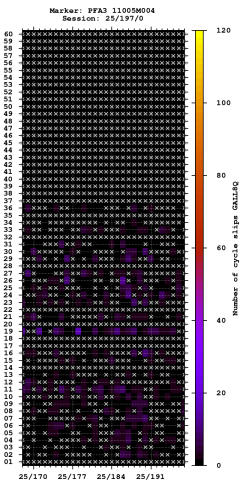
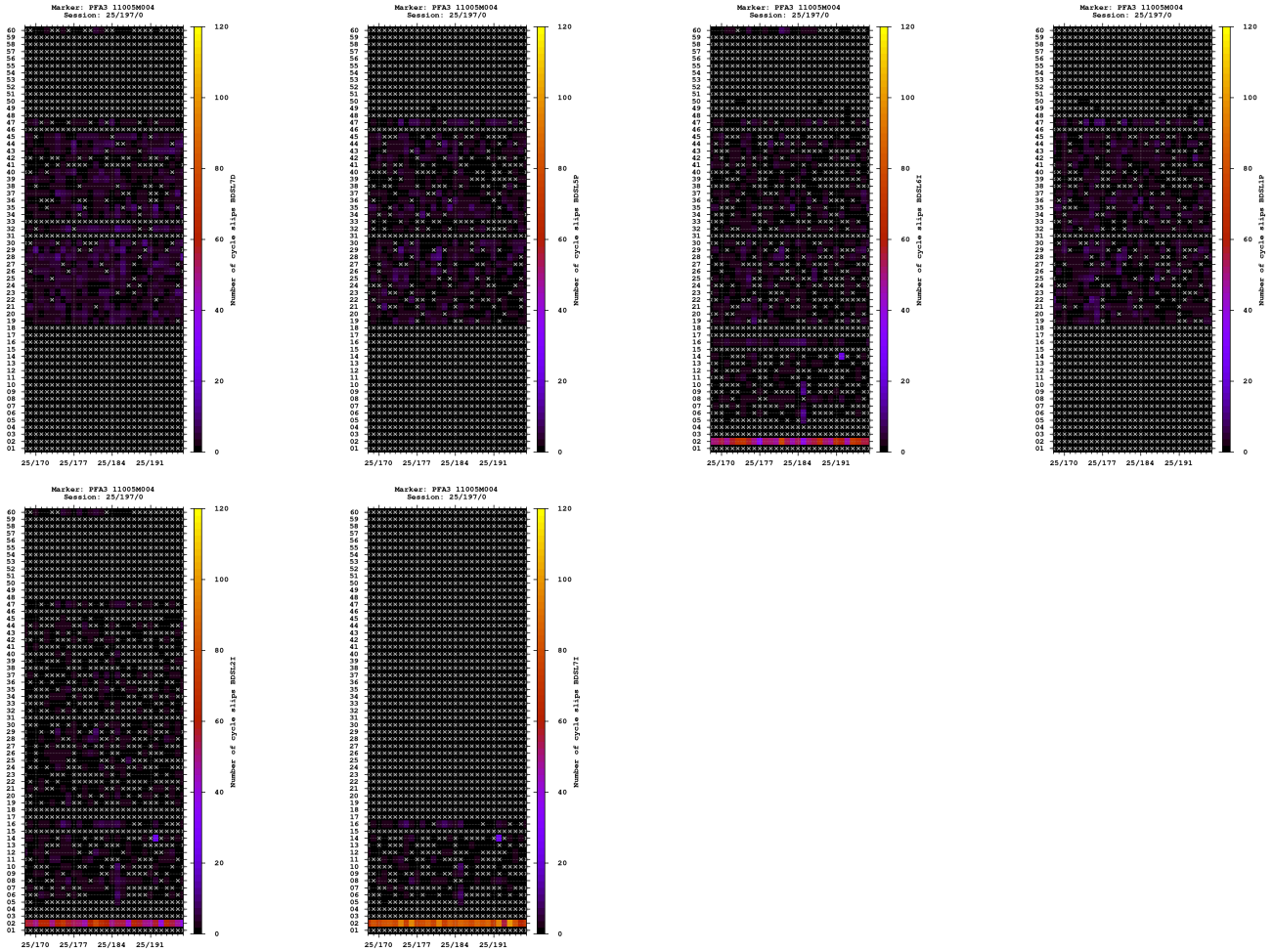
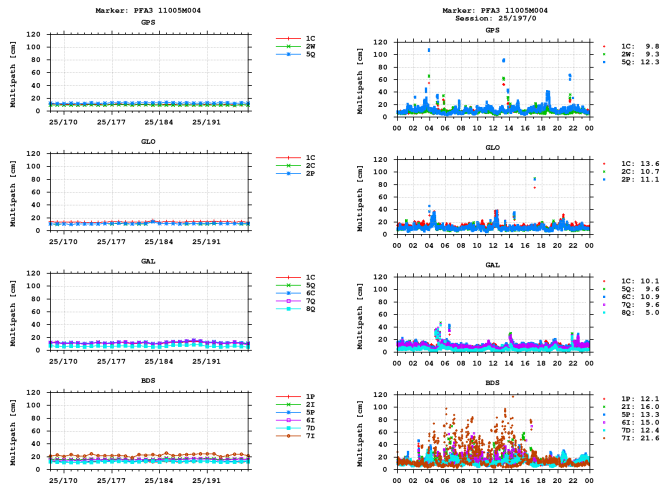
Session: 25/197/0
Number of cycle slips GAL1C
25/170 25/177 25/184 25/191

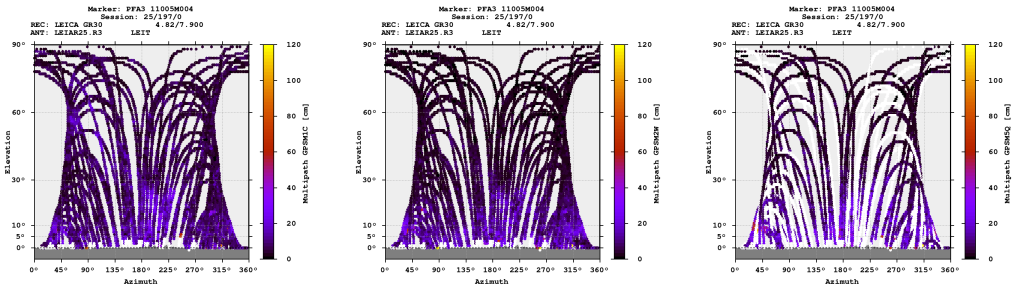

Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GAL7Q
25/170 25/177 25/184 25/191

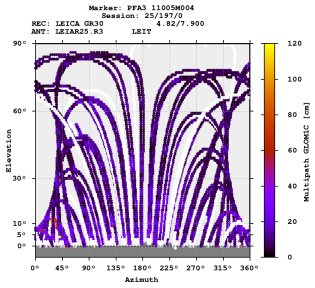

Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips GAL8Q
25/170 25/177 25/184 25/191

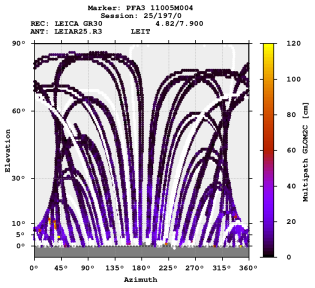

Marker: PFA3 11005M004
Session: 25/197/0
Number of cycle slips BDSL7D
Number of cycle slips BDSL2P
Number of cycle slips BDSL2I
Number of cycle slips BDSL7I
25/170 25/177 25/184 25/191

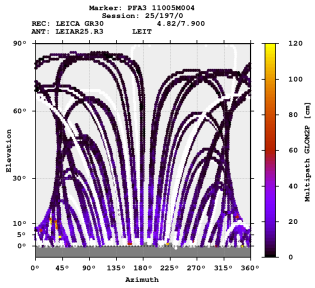
Multipath

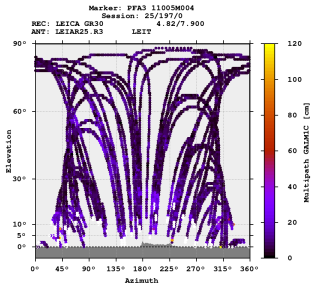

Marker: PFA3 11005M004
Session: 25/197/0
GPS
GLO
GAL
BDS
Multipath [cm]
1C 2W 5Q
1C: 9.8
2W: 9.3
5Q: 12.3
1C 2C 2P
1C: 13.6
2C: 10.7
2P: 11.1
1C 5Q 6C 7Q 8Q
1C: 10.1
5Q: 9.6
6C: 10.9
7Q: 9.6
8Q: 5.0
1P 2I 5P 6I 7D 7I
1P: 12.1
2I: 16.0
5P: 13.3
6I: 15.0
7D: 12.4
7I: 21.6
25/170 25/177 25/184 25/191
00 02 04 06 08 10 12 14 16 18 20 22 00

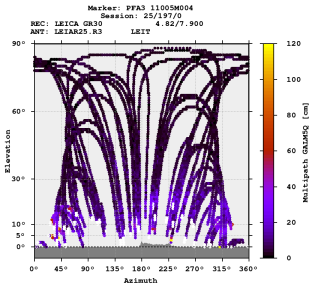

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GPSMC [cm]
Multipath GPSMSi [cm]
0° 45° 90° 135° 180° 225° 270° 315° 360°

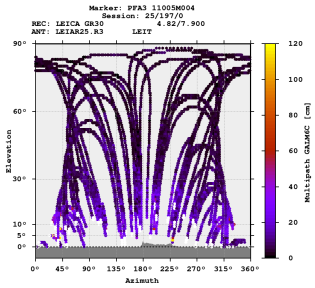

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4C [cm]

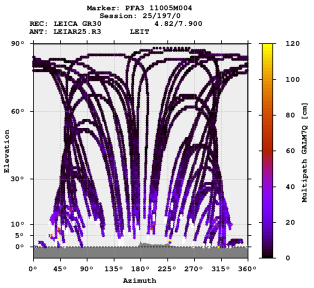

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4C [cm]

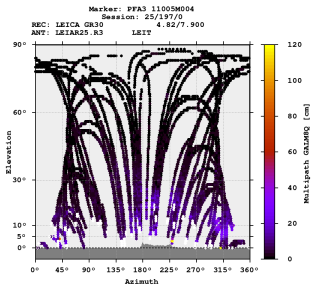

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4P [cm]

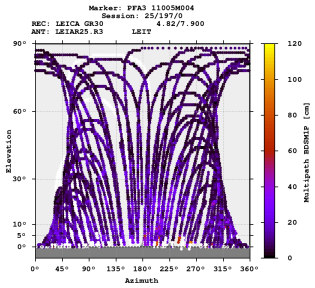

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4C [cm]

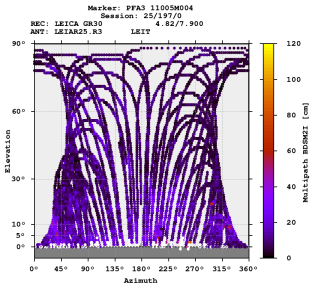

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4Q [cm]

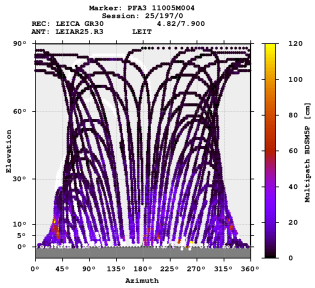

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4C [cm]

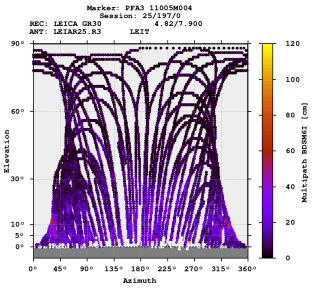

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4Q [cm]

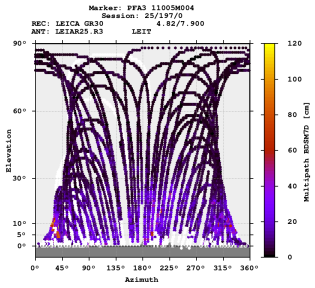

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath GLCM4Q [cm]

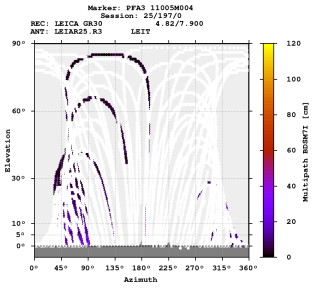

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M1P [cm]

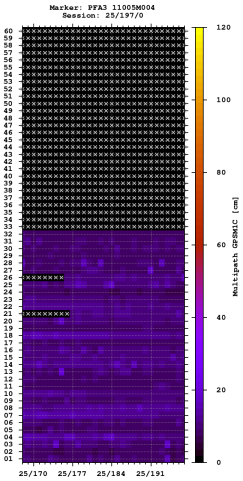

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M1I [cm]

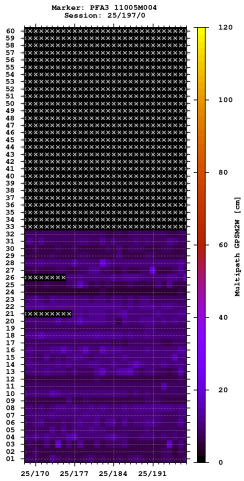

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M1P [cm]

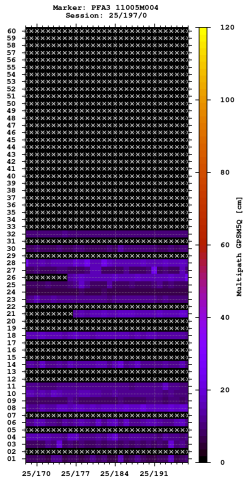

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M1I [cm]

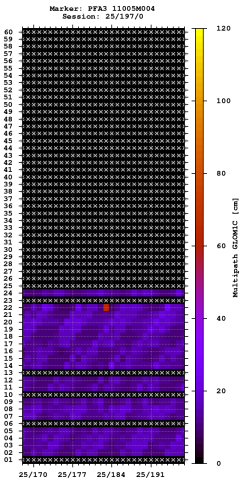

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M7D [cm]

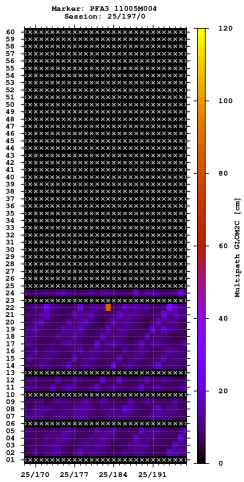

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
Multipath RG3M7I [cm]

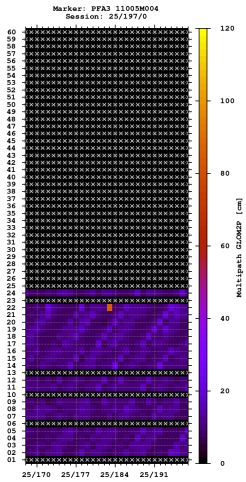

Marker: PFA3 11005M004
Session: 25/197/0
Multipath GF3M1C [cm]
25/170 25/177 25/184 25/191

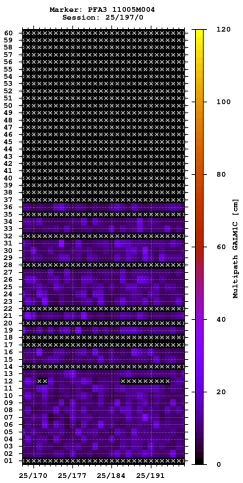

Marker: PFA3 11005M004
Session: 25/197/0
Multipath GF3M2W [cm]
25/170 25/177 25/184 25/191

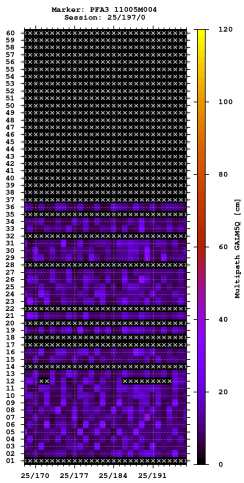

Marker: PFA3 11005M004
Session: 25/197/0
Multipath GF3M5Q [cm]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Multipath GL2M1C [cm]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Multipath GL2M2C [cm]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Multipath GL2M2P [cm]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Multipath GA1M1C [cm]
25/170 25/177 25/184 25/191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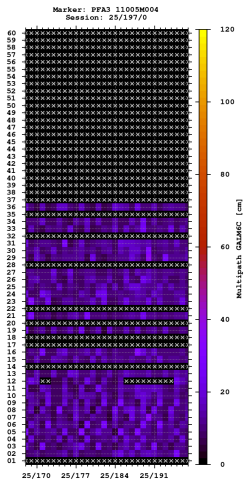
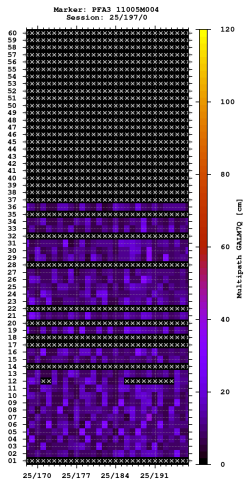
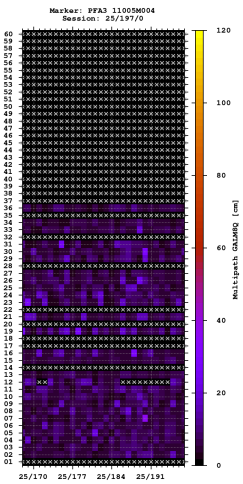
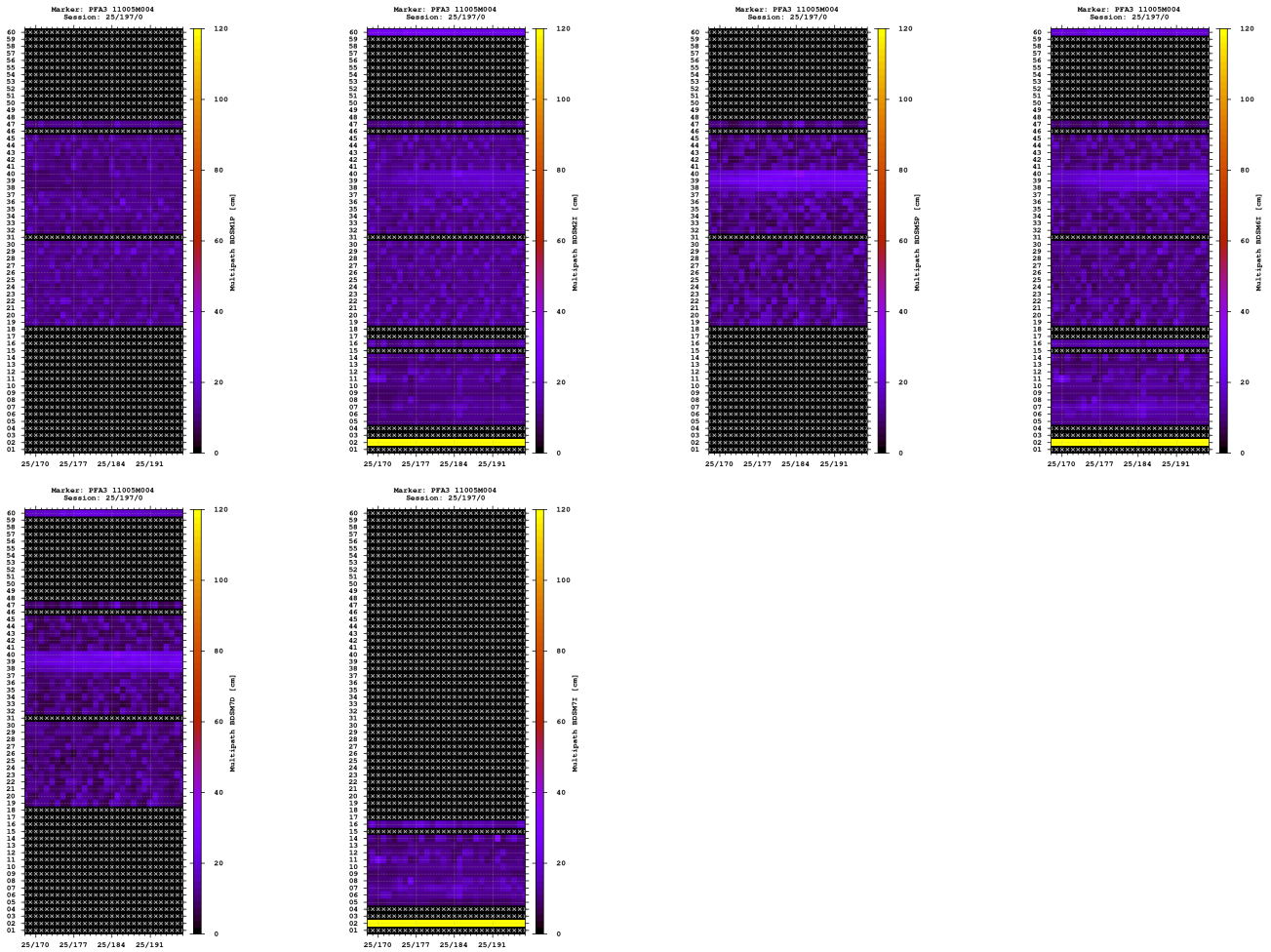
Session: 25/197/0
Multipath GA1M5Q [cm]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
Multipath GA1M5C [cm]
25/170 25/177 25/184 25/191

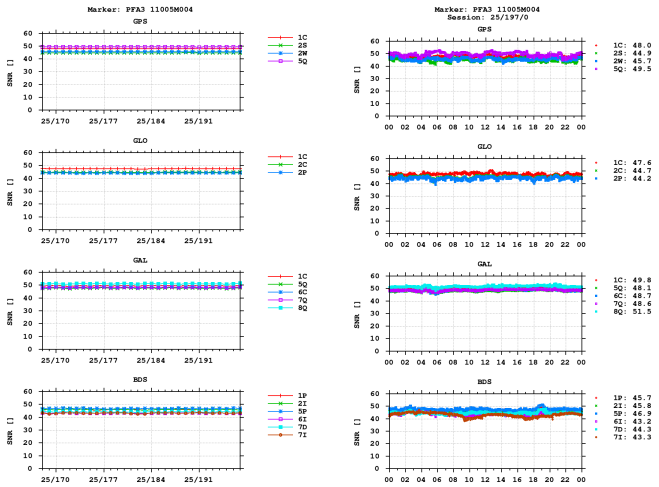

Marker: PFA3 11005M004
Session: 25/197/0
Multipath GA1M7Q [cm]
25/170 25/177 25/184 25/191

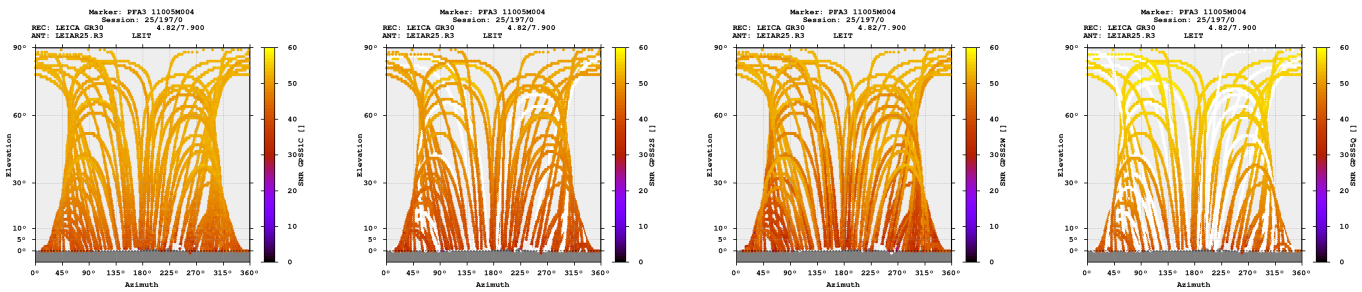

Marker: PFA3 11005M004
Session: 25/197/0
Multipath GA2M8Q [cm]
25/170 25/177 25/184 25/191

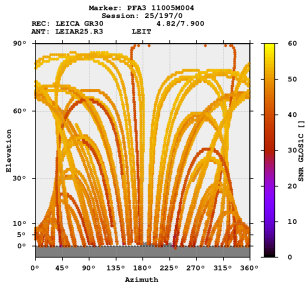


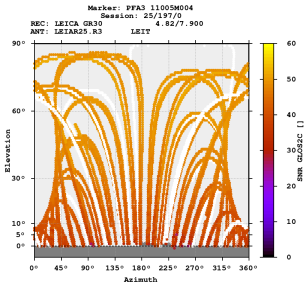
- The multipath is estimated as a standard deviation over a sequence of consecutive epochs.

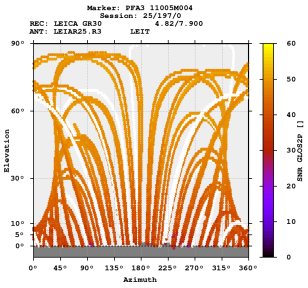
Signal-to-noise ratio

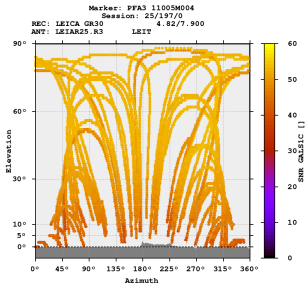


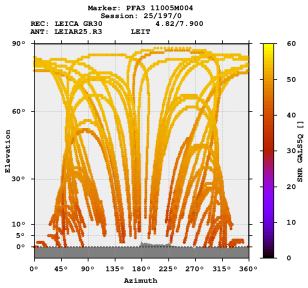



Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL01C [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL02C [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL02P [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL01C [ ]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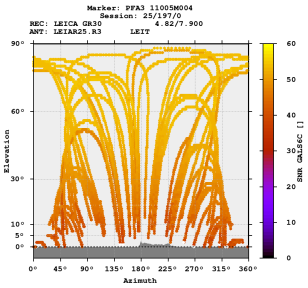
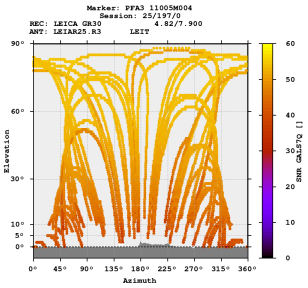
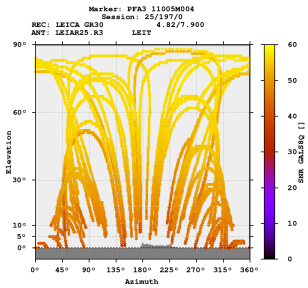
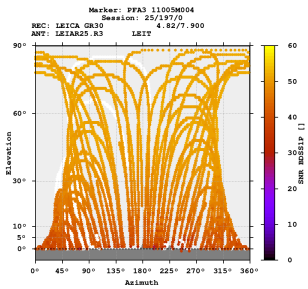
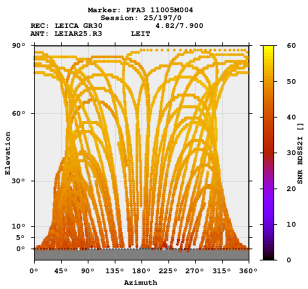
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL05Q [ ]

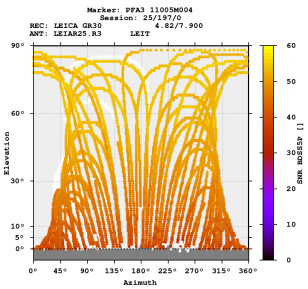

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL26C [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL27Q [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL08Q [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL01P [ ]


Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL02L [ ]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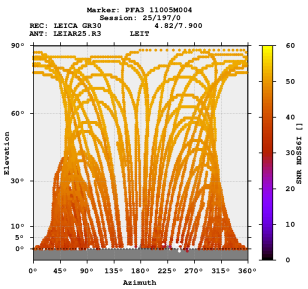
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL05P [ ]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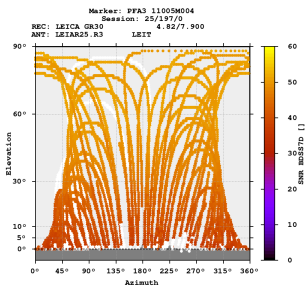
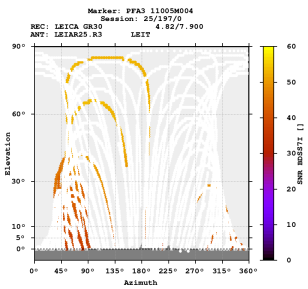
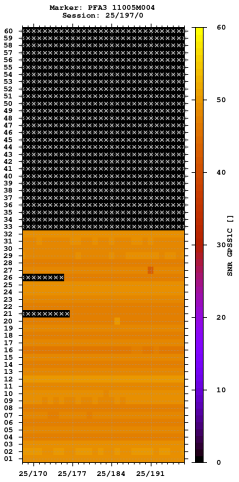
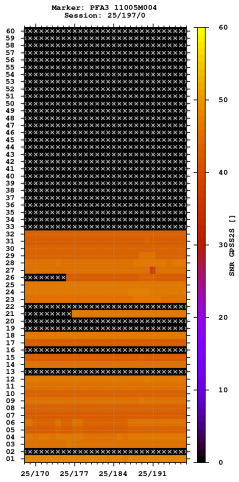
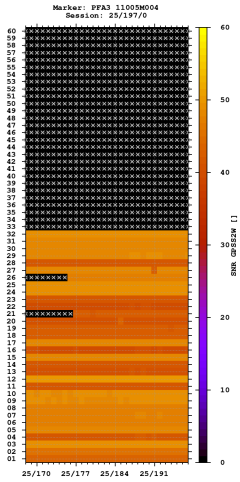
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL08L [ ]

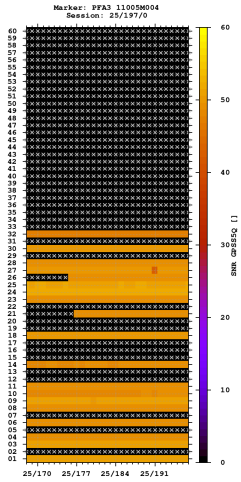

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL07D [ ]

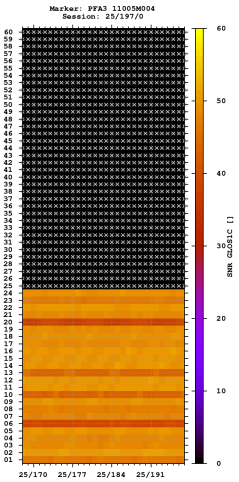

Marker: PFA3 11005M004
Session: 25/197/0
REC: LEICA GR30 4.82/7.900
ANT: LEIAR25.R3 LEIT
Elevation
Azimuth
SNR GL07L [ ]

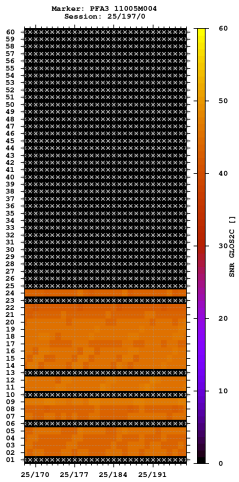

Marker: PFA3 11005M004
Session: 25/197/0
SNR GPS1C [ ]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
SNR GPS2S [ ]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
SNR M2S2Q [ ]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
SNR GPS5Q [ ]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
SNR GLO1C [ ]
25/170 25/177 25/184 25/191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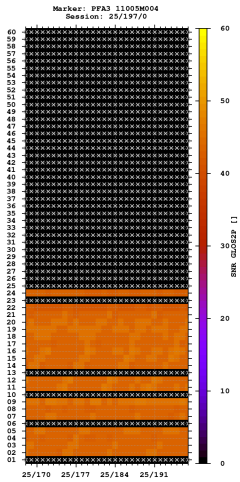
Session: 25/197/0
SNR GLO2C [ ]
25/170 25/177 25/184 25/191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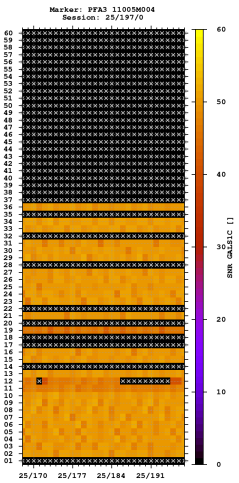
SNR GLO2P [ ]
25/170 25/177 25/184 25/191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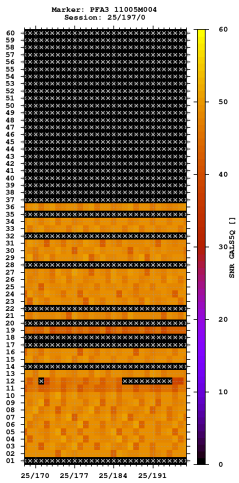
Session: 25/197/0
SNR GAL1C [ ]
25/170 25/177 25/184 25/191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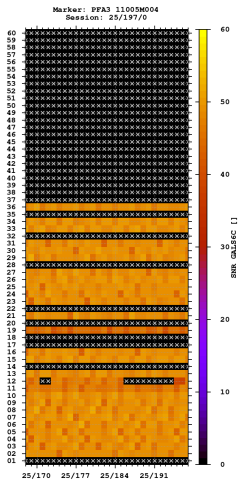
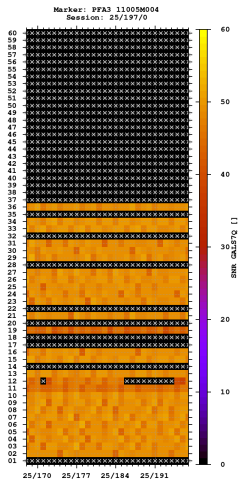
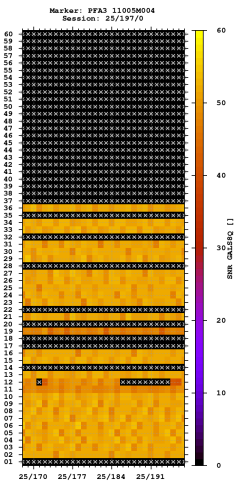
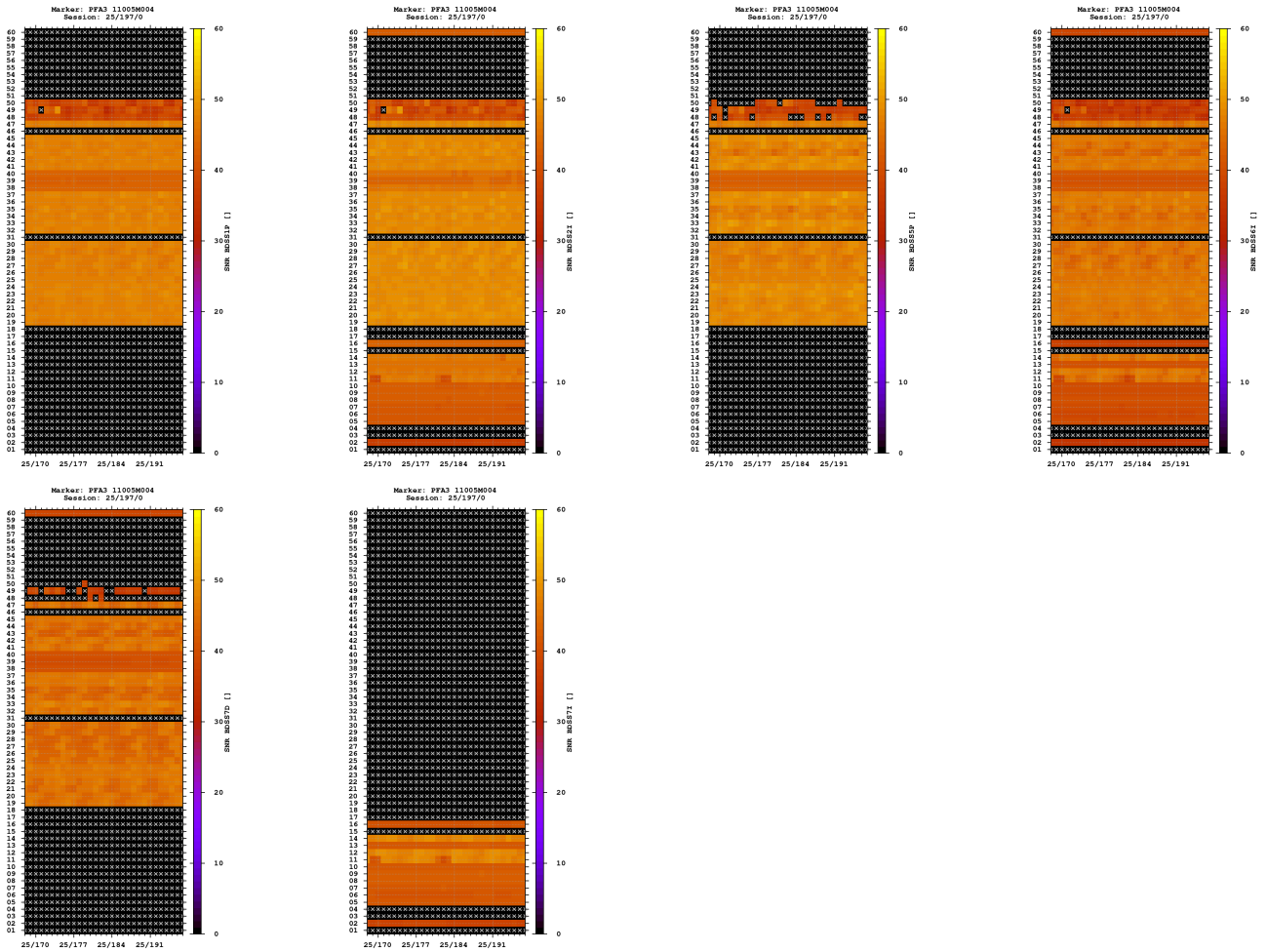
Session: 25/197/0
SNR GAL5Q [ ]
25/170 25/177 25/184 25/191


Marker: PFA3 11005M004
Session: 25/197/0
SNR GAL6C [ ]
25/170 25/177 25/184 25/191

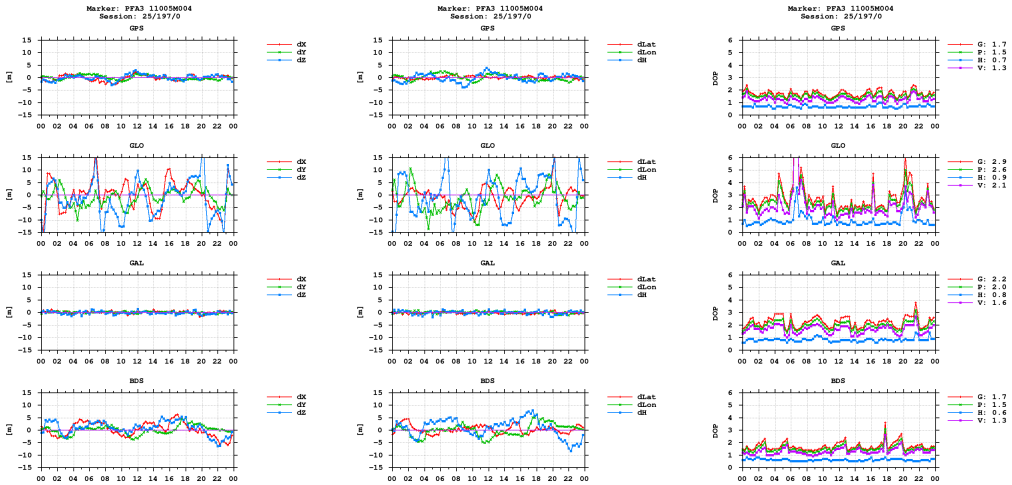

Marker: PFA3 11005M004
Session: 25/197/0
SNR GAL7Q [ ]
25/170 25/177 25/184 25/191

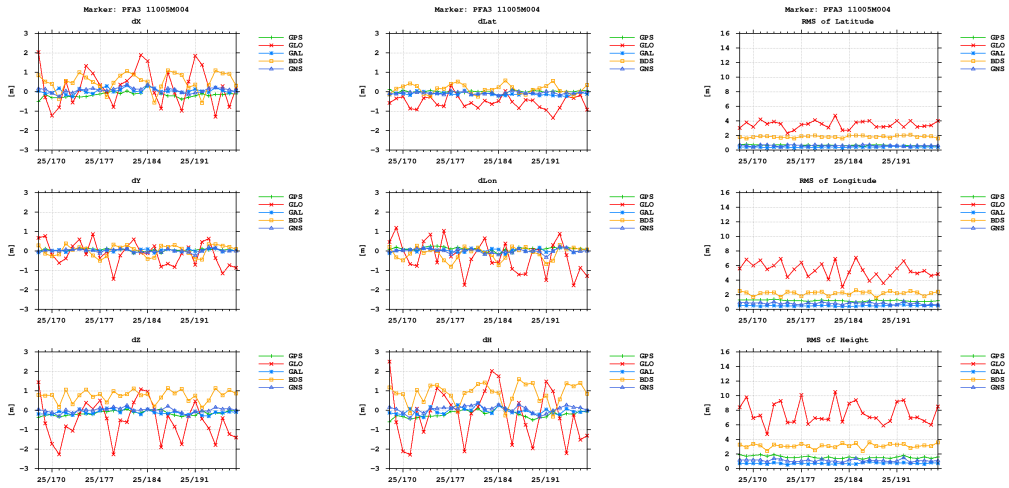

Marker: PFA3 11005M004
Session: 25/197/0
SNR GAL8Q [ ]
25/170 25/177 25/184 25/191



Estimates

2025-07-16 00:00:00	GPS	4253561.2193	733545.5581	4681452.9262	47.515319850	9.784669204	1091.0915
2025-07-16 00:00:00	GLO	4253561.5402	733544.6675	4681451.5507	47.515310870	9.784656998	1089.8940
2025-07-16 00:00:00	GAL	4253561.4131	733545.5915	4681452.8590	47.515318137	9.784669204	1091.1748
2025-07-16 00:00:00	BDS	4253561.6596	733545.6362	4681453.8152	47.515322284	9.784669232	1092.0491





Equipment

2025-06-17 00:00:00 LEICA GR30 4.82/7.900 1705320 LEICA GR30

Program info

G-Nut/Anubis Free [3.10] Mar 19 2025 09:09:21 (Rev: 4538)