

GNSS observation file monitoring for USAL

Last RINEX file: USAL1970.25D.Z

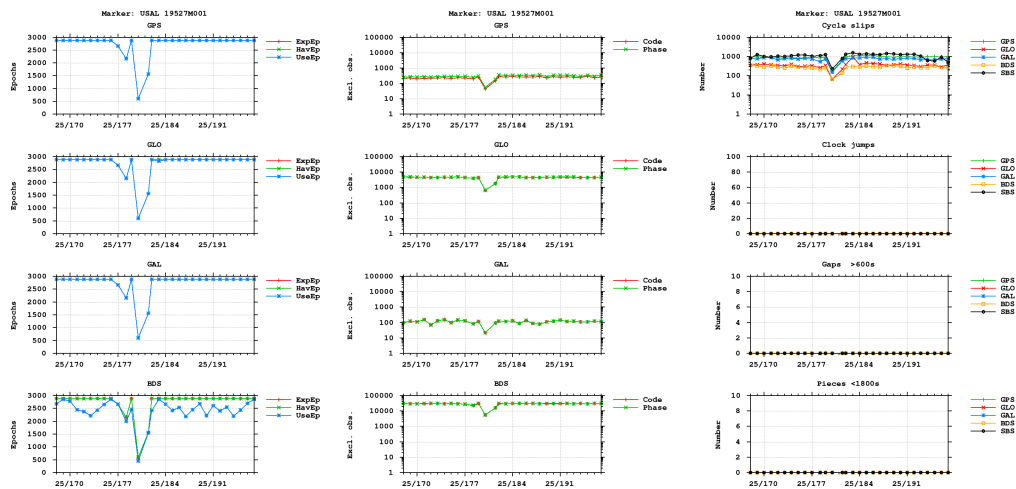
RINEX version: 3.04

Marker: USAL 19527M001

Receiver: 1705566 LEICA GR30 4.80/7.900

Antenna: 19336008 LEIAR20 NONE

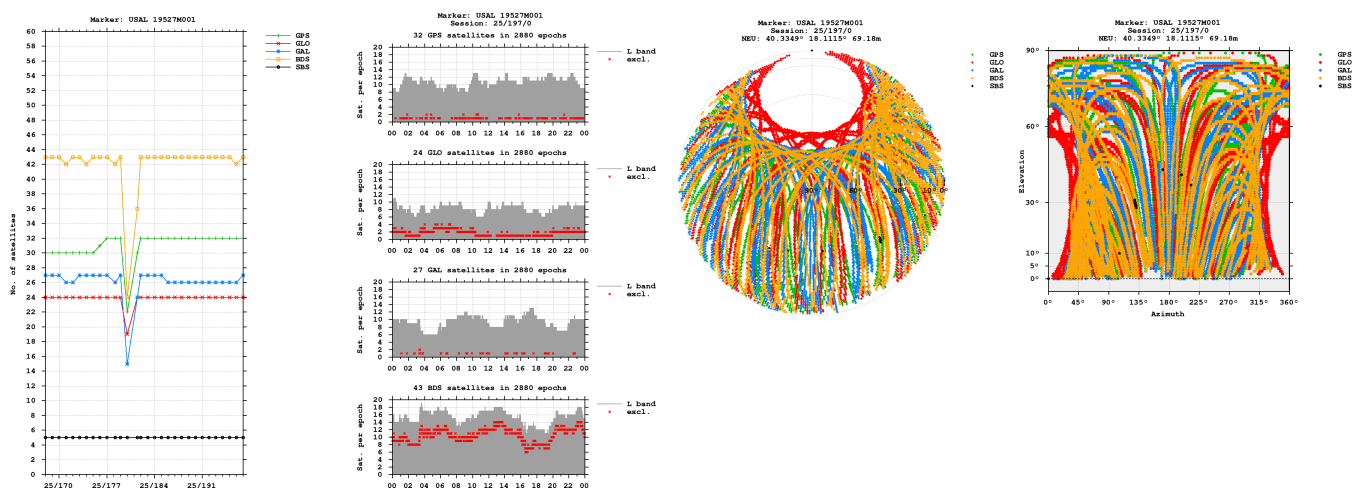
Epochs



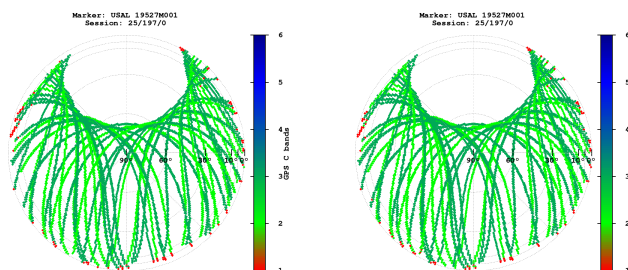
- "UseEp": The usable epoch is introduced if four or more satellites are observed with the minimum of two frequencies.

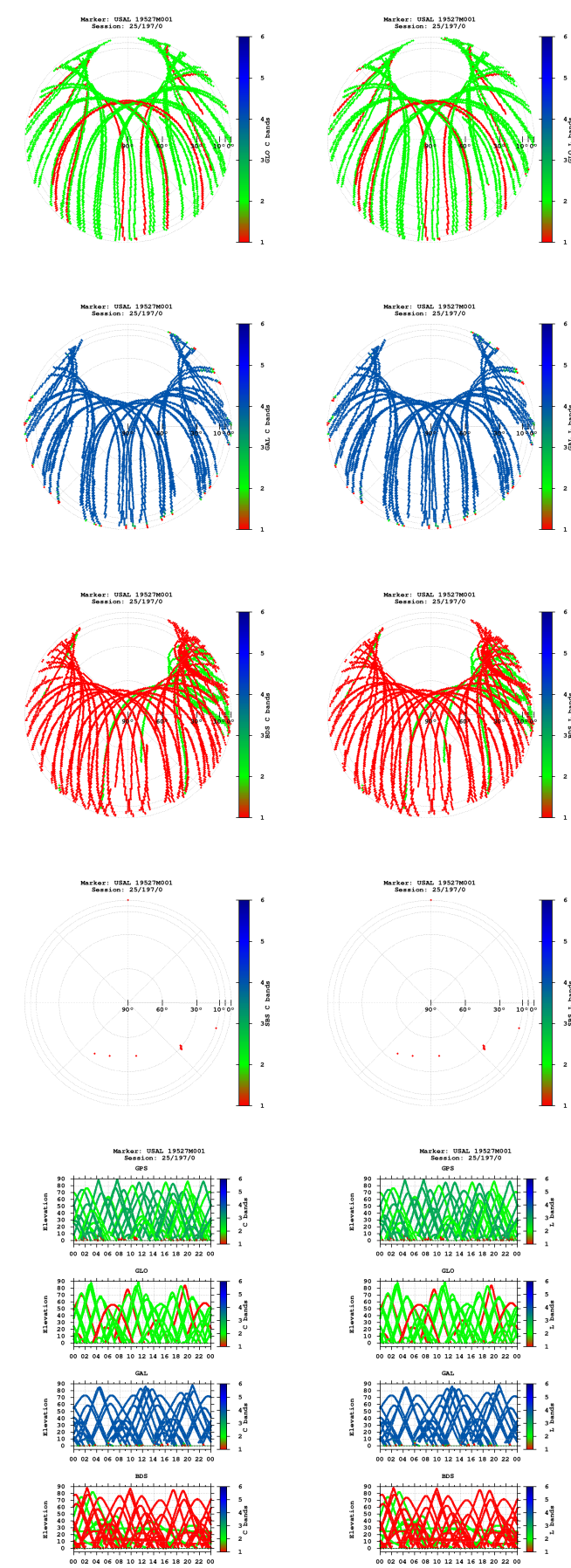
- Cycle slip detection algorithm is based on Melbourne-Wübbena and geometry-free LC.

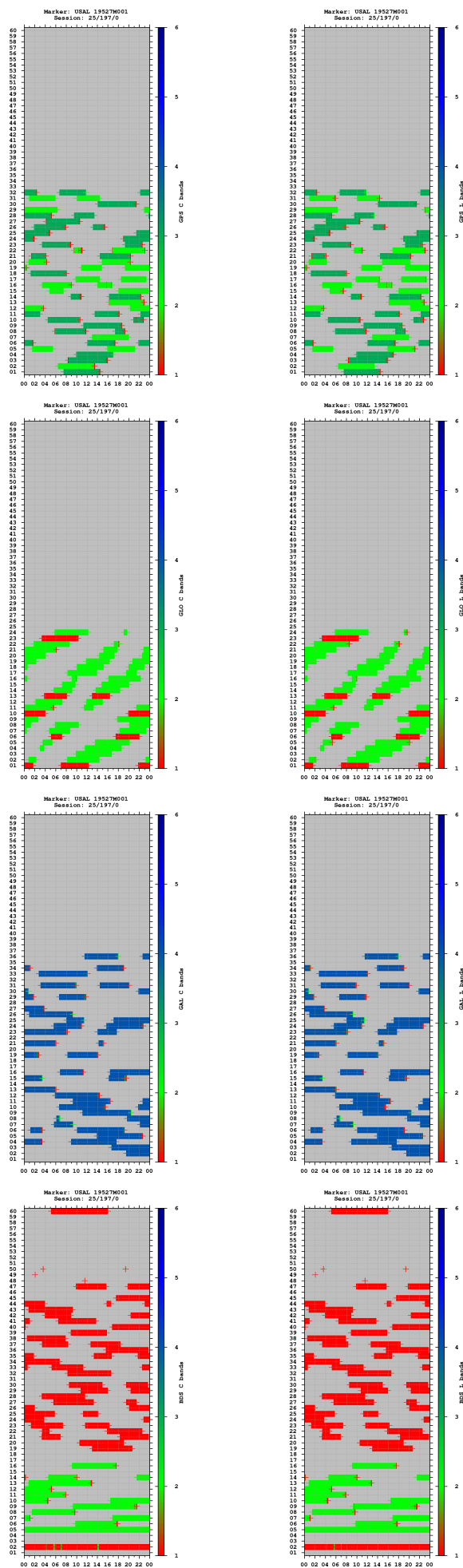
Satellites

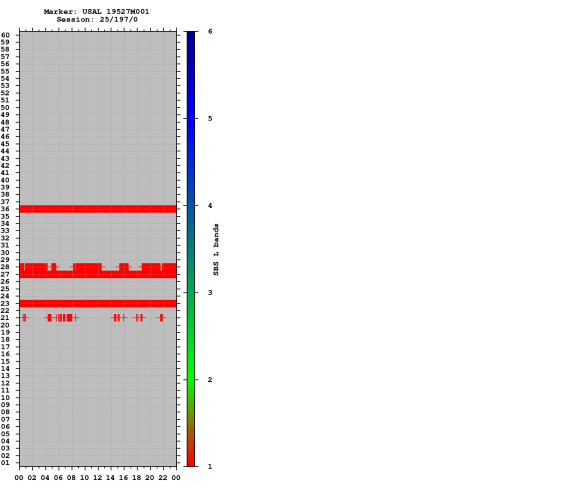
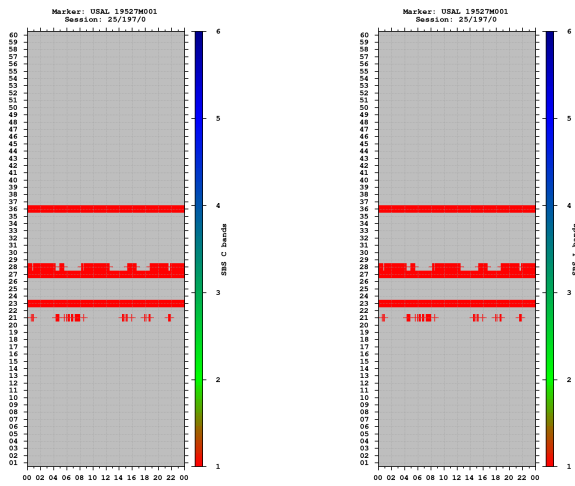


Bands

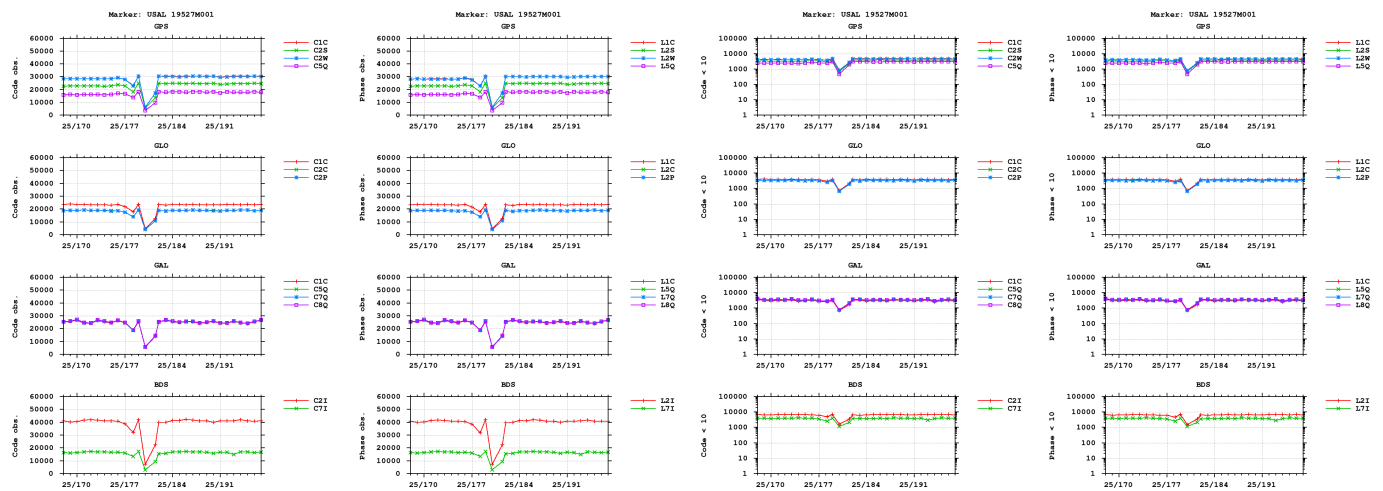




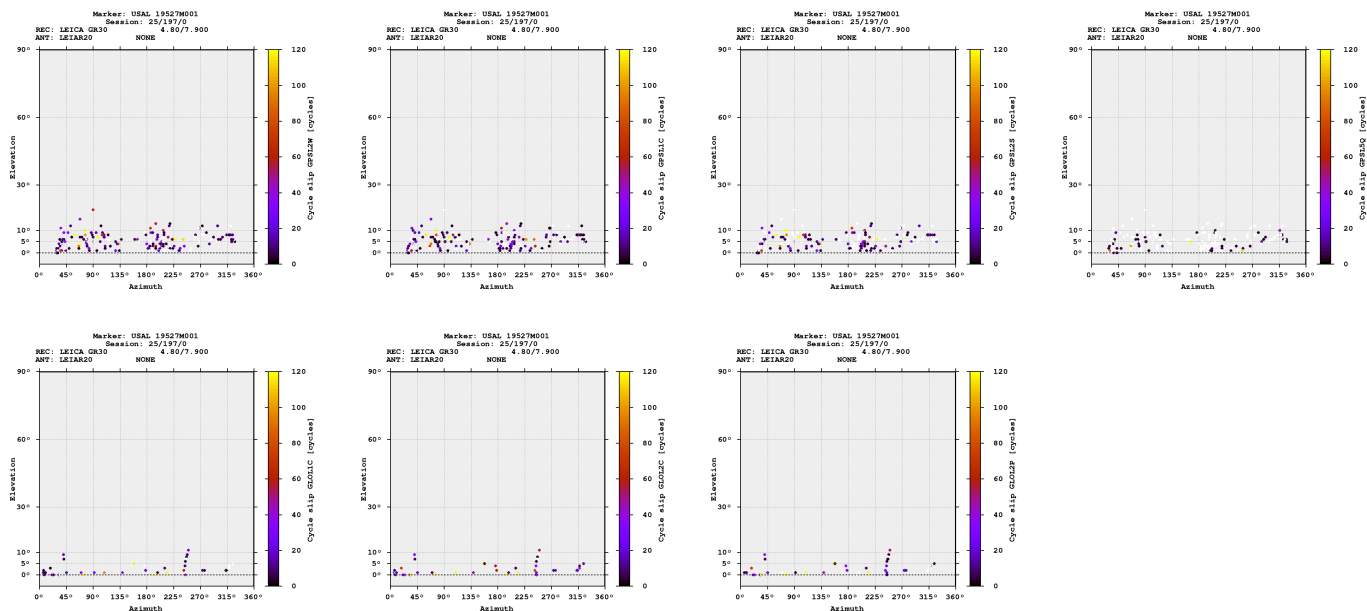


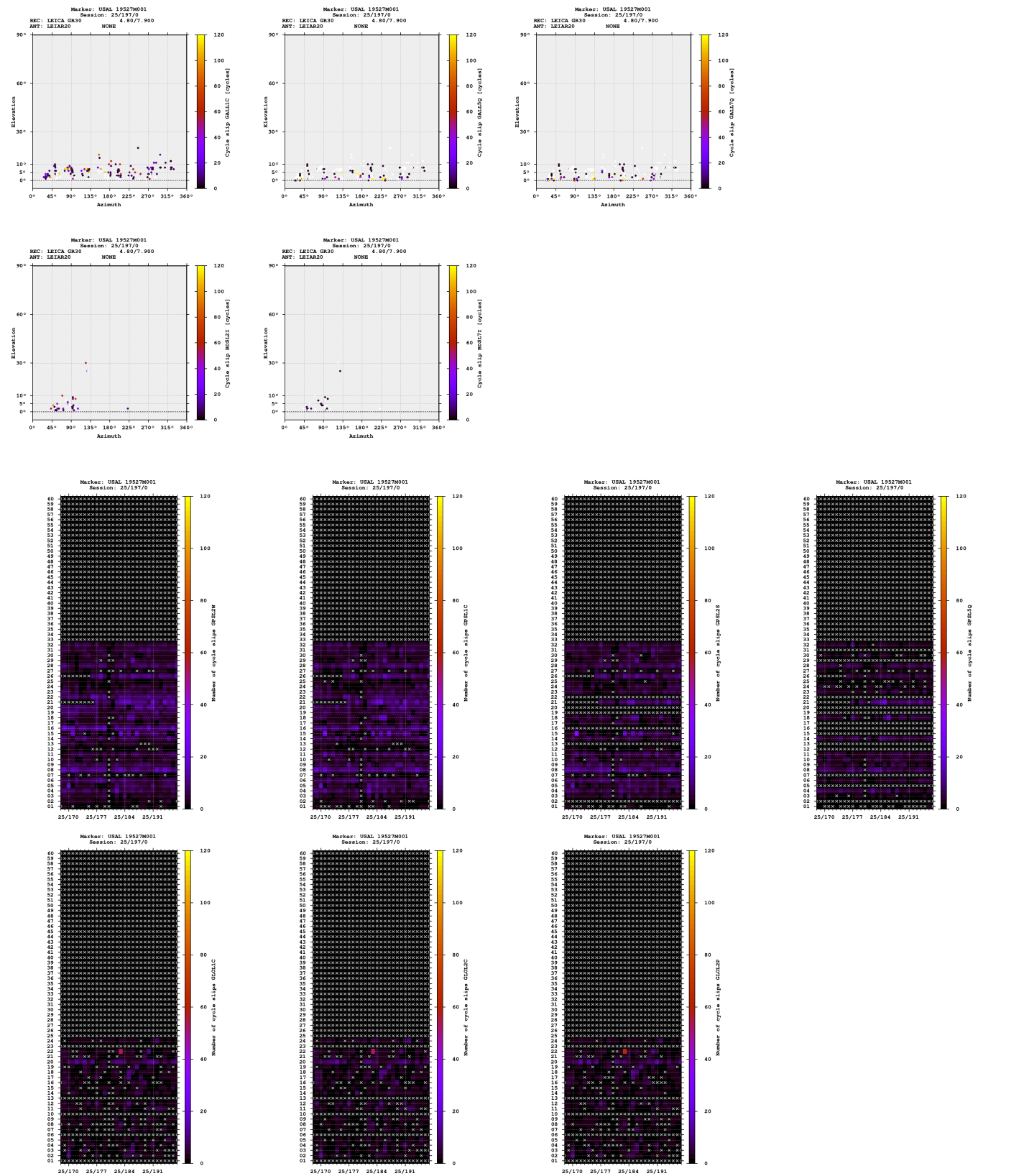


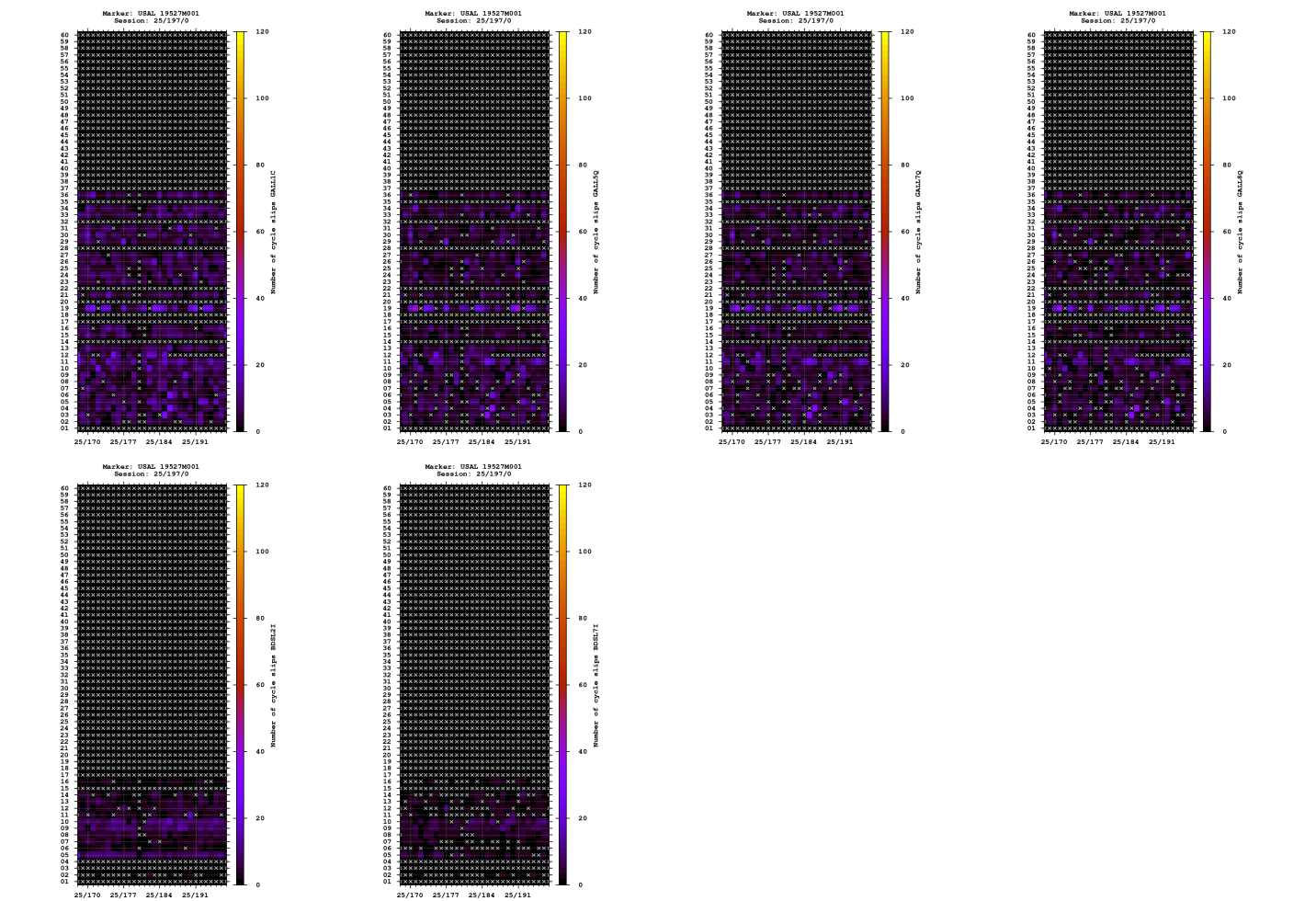
Observations



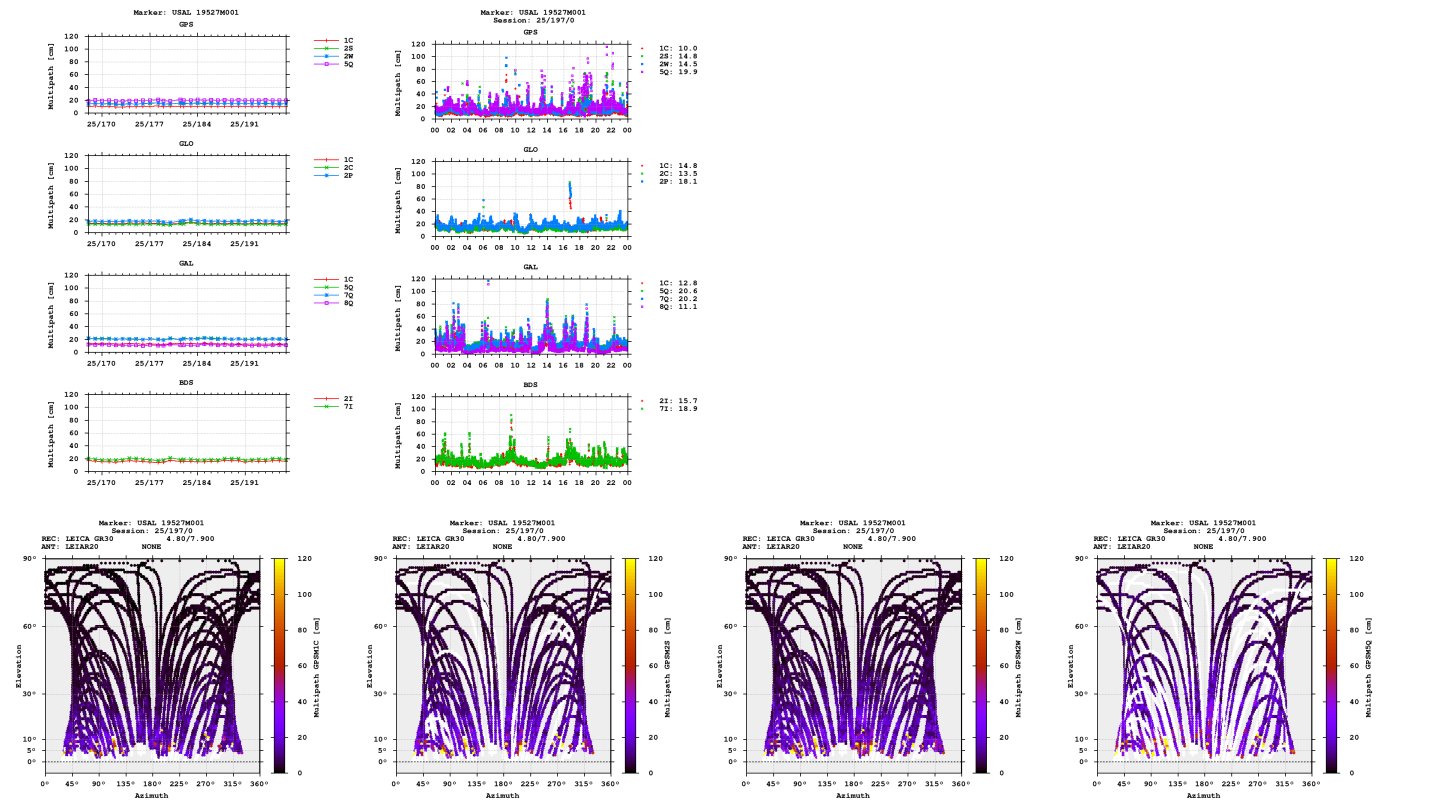
Cycle slips

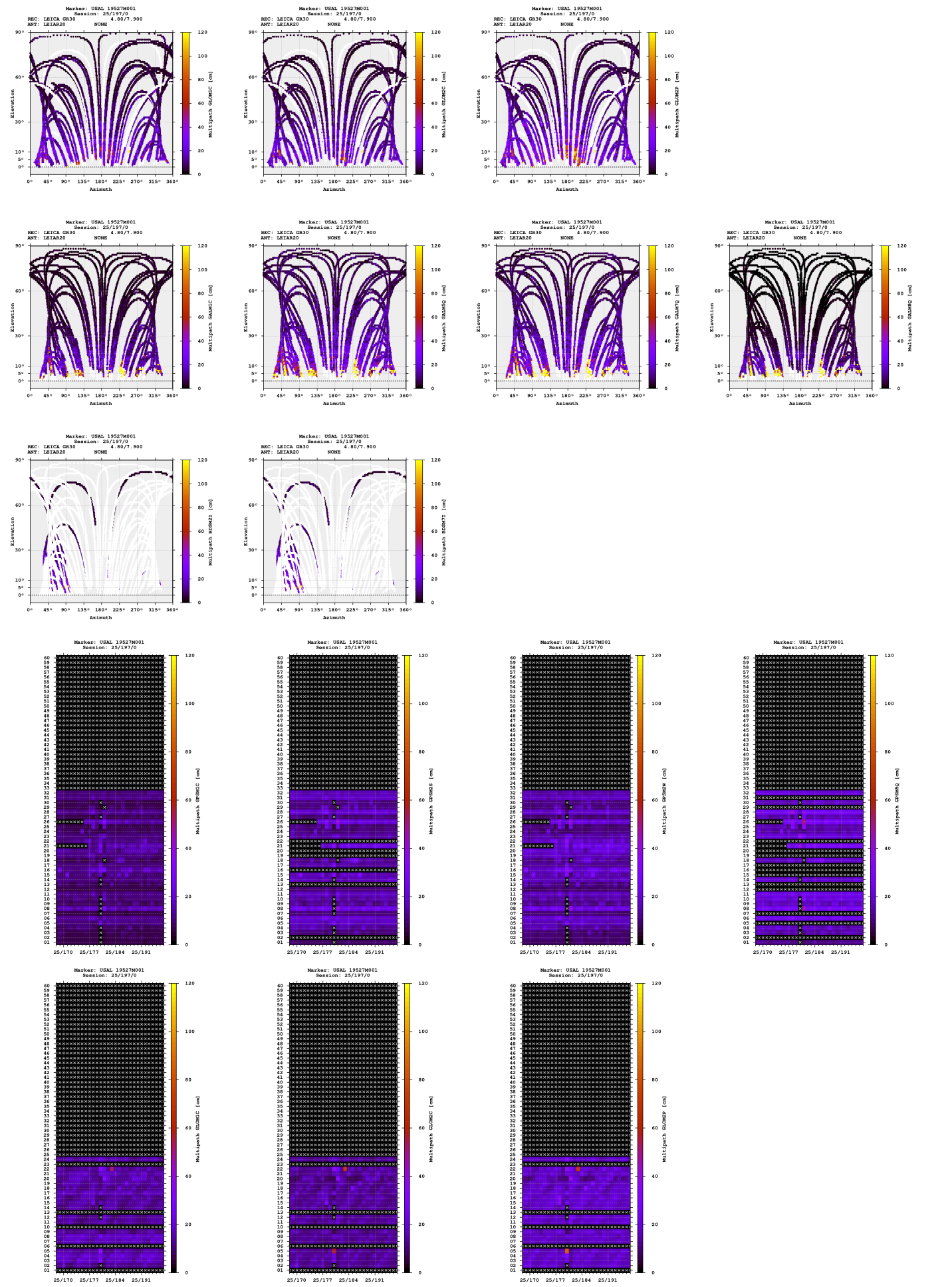






Multipath





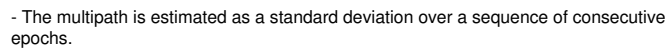


Figure 1 displays six panels showing the Signal-to-Noise Ratio (SNR) in dB versus Time in hours for four different satellite navigation systems: GPS, GLO, GAL, and BDS. Each panel contains two subplots: the left subplot shows the SNR for the full system, and the right subplot shows the SNR for the reduced system. The x-axis for all plots is Time [h], ranging from 25/170 to 25/191. The y-axis for all plots is SNR [dB], ranging from 0 to 60. The legend for each plot indicates the satellites included in the system.

- GPS (Left):** SNR for the full system (1C, 2P, 5Q, 7I) is shown. The SNR is relatively stable, around 40-45 dB.
- GPS (Right):** SNR for the reduced system (1C, 2P, 5Q, 7I) is shown. The SNR is relatively stable, around 40-45 dB.
- GLO (Left):** SNR for the full system (1C, 2P, 5Q) is shown. The SNR is relatively stable, around 40-45 dB.
- GLO (Right):** SNR for the reduced system (1C, 2P, 5Q) is shown. The SNR is relatively stable, around 40-45 dB.
- GAL (Left):** SNR for the full system (1C, 5Q, 7Q, 8Q) is shown. The SNR is relatively stable, around 40-45 dB.
- GAL (Right):** SNR for the reduced system (1C, 5Q, 7Q, 8Q) is shown. The SNR is relatively stable, around 40-45 dB.
- BDS (Left):** SNR for the full system (2I, 7I) is shown. The SNR is relatively stable, around 40-45 dB.
- BDS (Right):** SNR for the reduced system (2I, 7I) is shown. The SNR is relatively stable, around 40-45 dB.

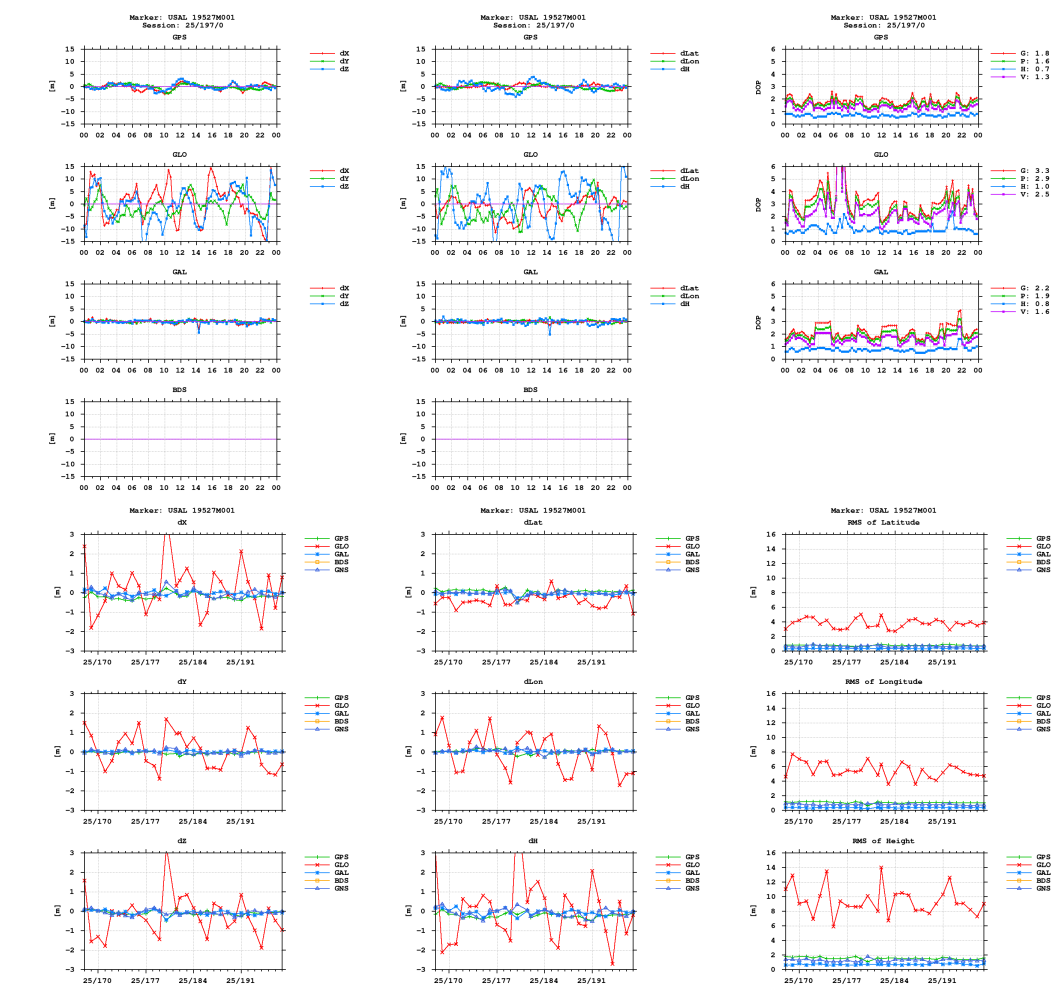




Estimates

2025-07-16 00:00:00 GPS 4627541.3367 1513541.2776 4106448.5738 40.334920868 18.111494694 69.0383

2025-07-16 00:00:00 GLO 4627542.3162 1513540.7028 4106447.6042 40.334909827 18.111484682 68.9842
2025-07-16 00:00:00 GAL 4627541.5321 1513541.3715 4106448.4810 40.334918978 18.111495030 69.1420



Equipment

2025-06-17 00:00:00 LEICA GR30 4.80/7.900 1705566 LEICA GR30

Program info

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