

# GNSS observation file monitoring for 0515

Last RINEX file: 05152241.220

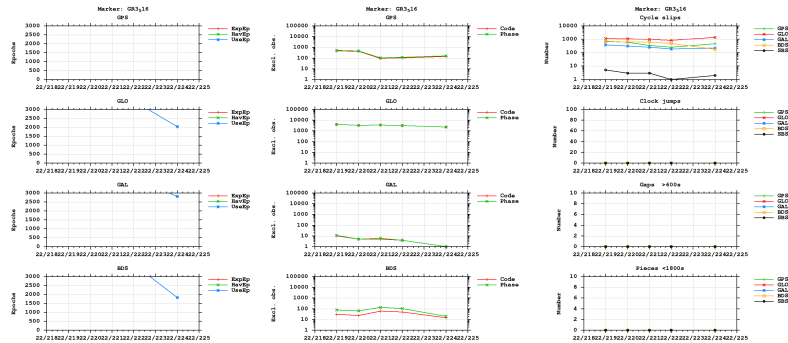
RINEX version: 3.02

Marker: GR3\_516

Receiver: 515 TRIMBLE NETR9 5.52

Antenna: 515 TRM57971.00 NONE

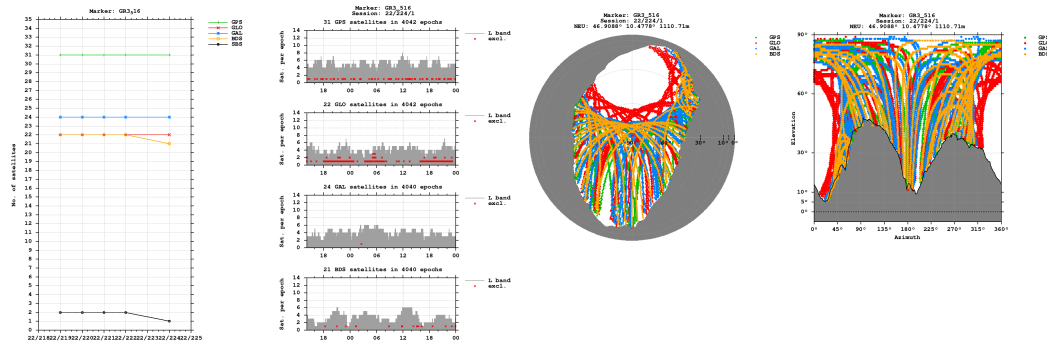
## Epochs



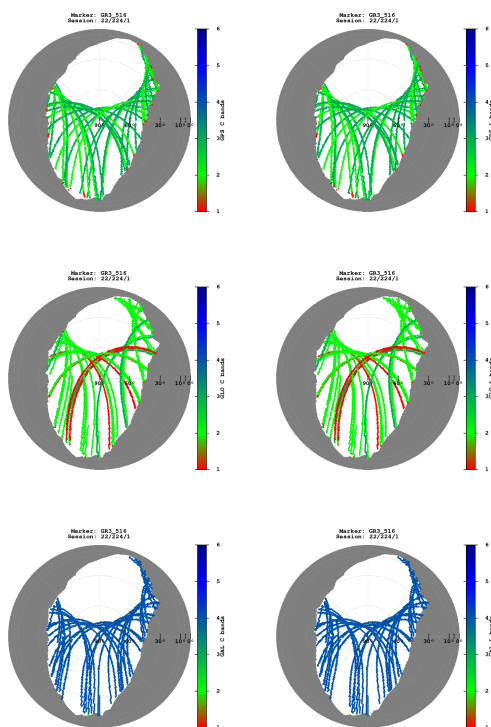
- "UseEp": The usable epoch is introduced if four or more satellites are observed with the minimum of two frequencies.

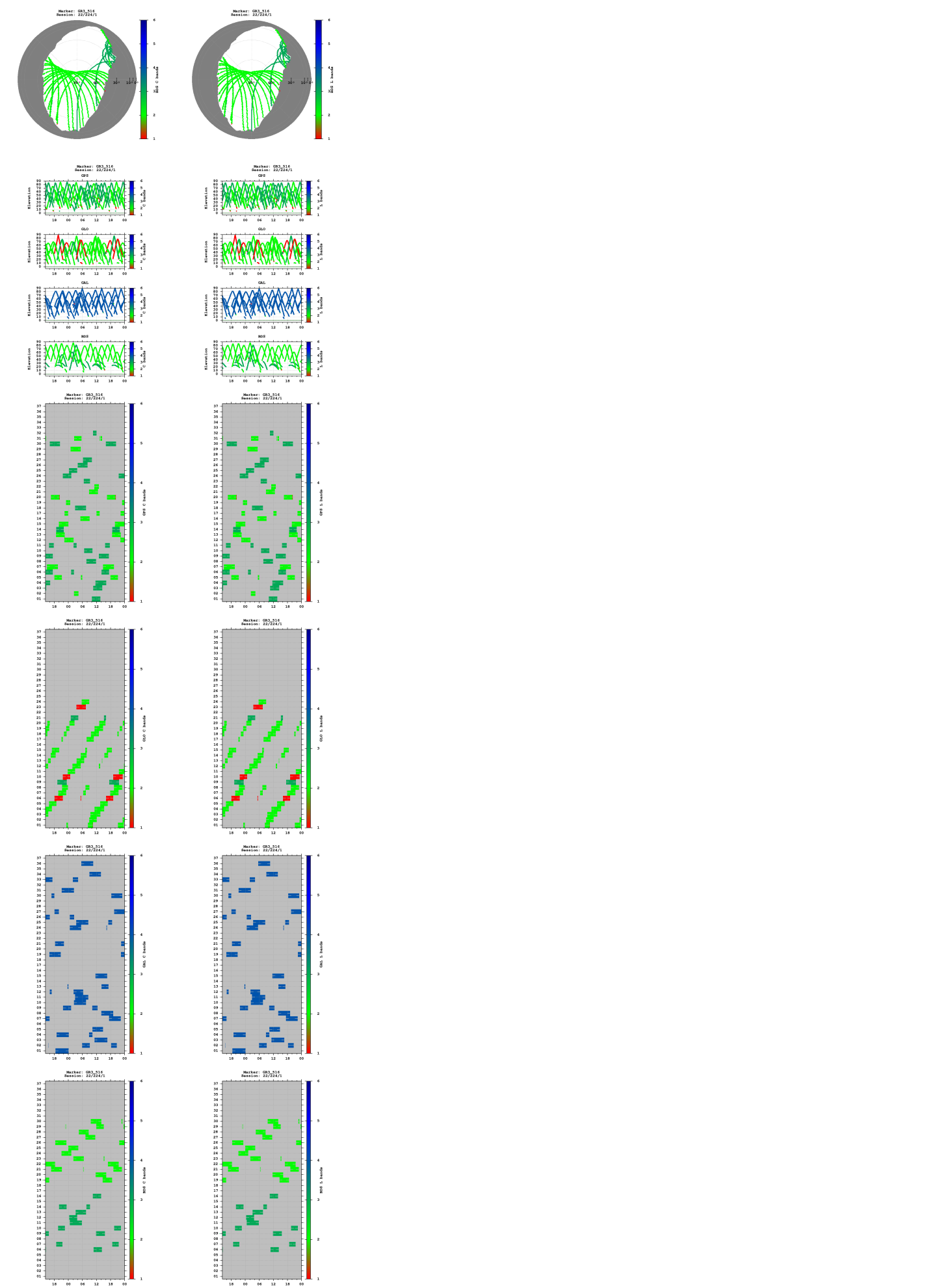
- Cycle slip detection algorithm is based on Melbourne-Wübbena and geometry-free LC.

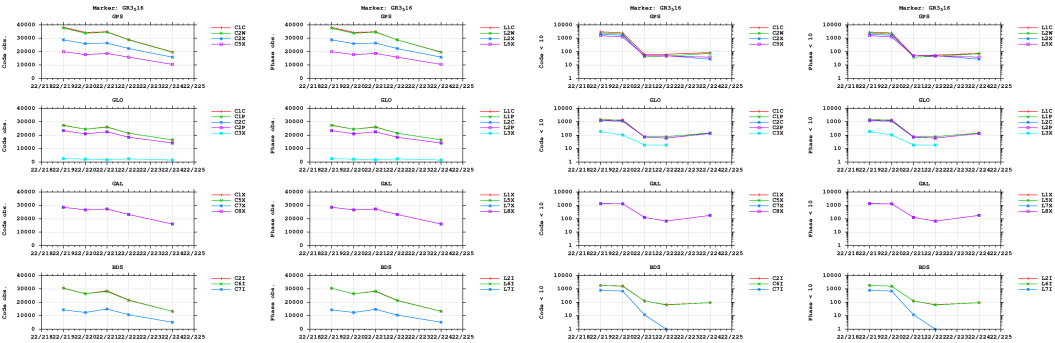
## Satellites



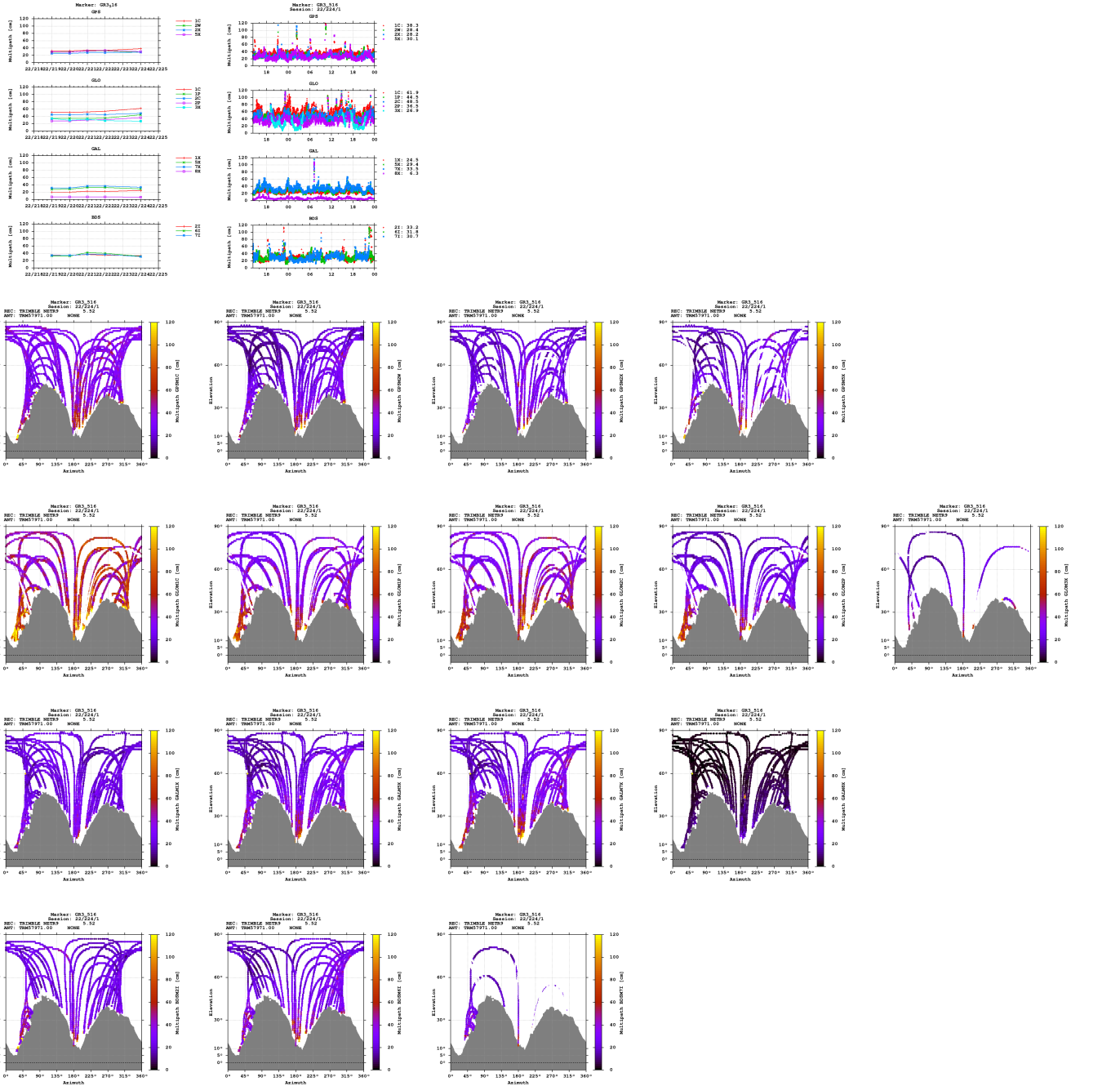
## Bands







Multipath



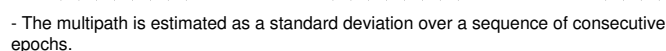
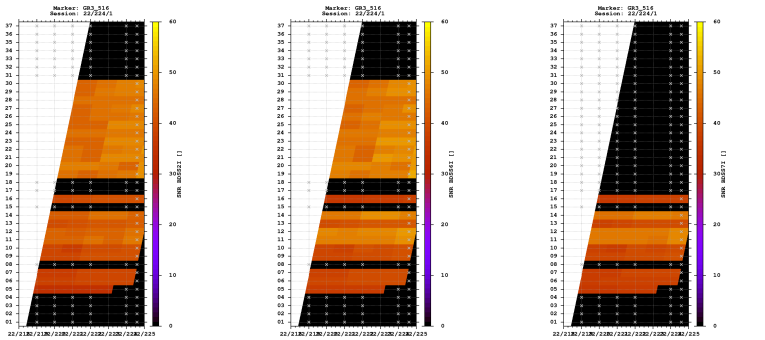


Figure 1 consists of six panels arranged in a 3x2 grid, showing the evolution of the spin parameter  $a^*$  (y-axis, 0 to 60) versus time in seconds (x-axis,  $10^2$  to  $10^5$ ). The panels are labeled as follows:

- Top-left: QM\* model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).
- Top-right: GLO model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).
- Middle-left: GLO model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).
- Middle-right: GLO model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).
- Bottom-left: GAL model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).
- Bottom-right: GAL model, showing  $a^*$  evolution for different initial values (10, 20, 30, 40, 50, 60).

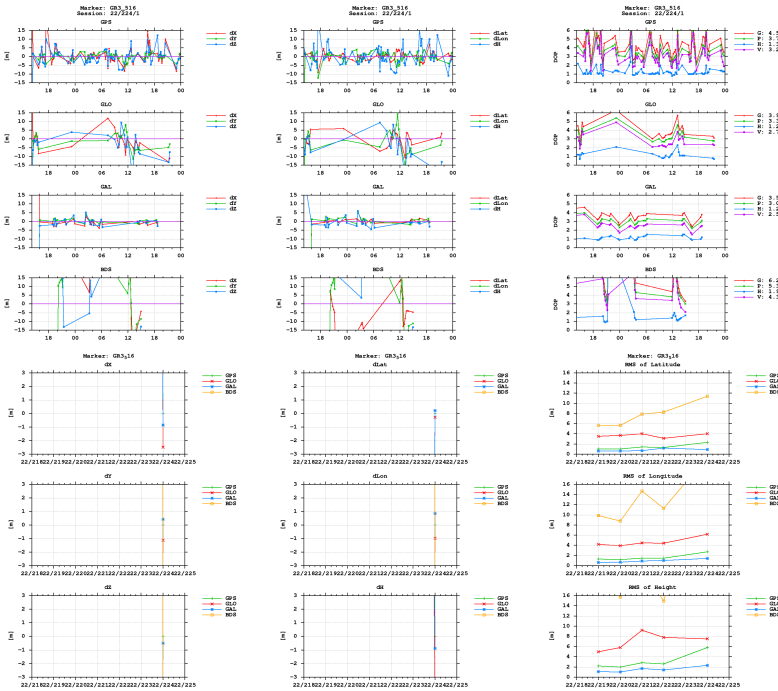
Each panel includes a legend for the different models: QM\* (blue), GLO (green), GAL (red), and the evolution of  $a^*$  (black). The panels show that  $a^*$  generally decreases over time, with the GLO model showing a more rapid decrease than the QM\* model. The GAL model shows a more rapid increase in  $a^*$  over time.



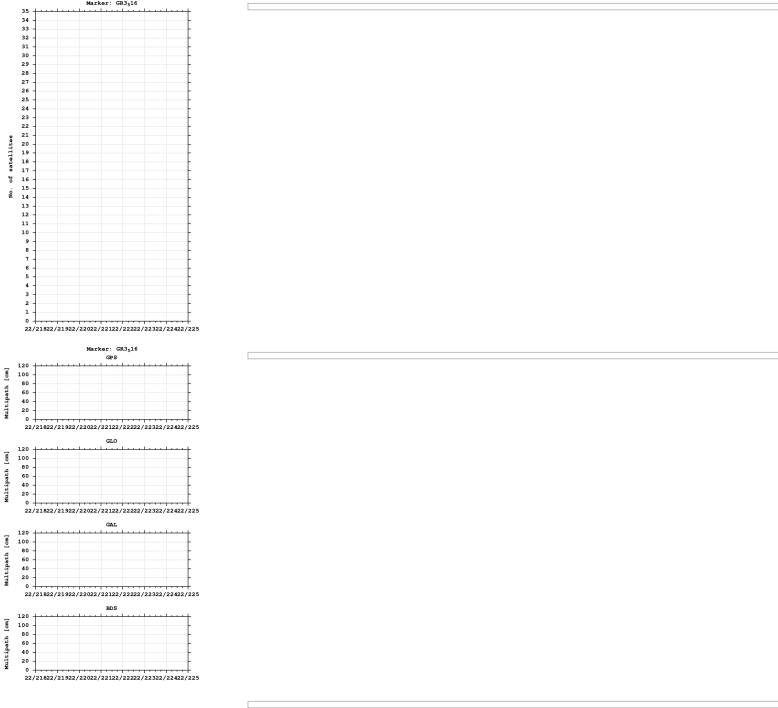


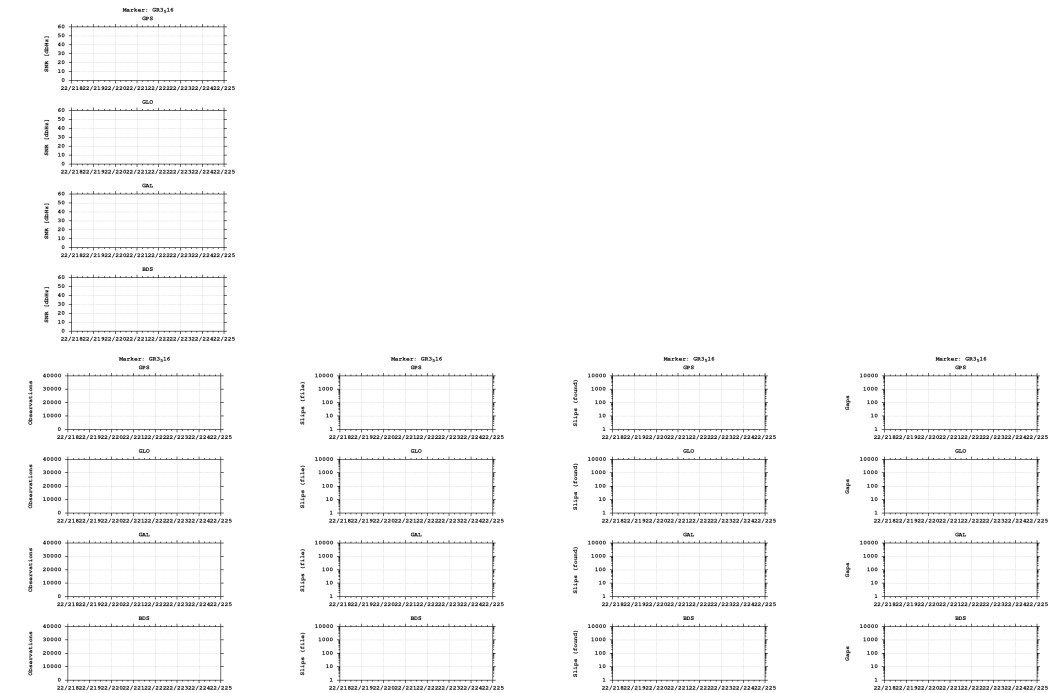
Estimates

|                     |     |              |             |              |              |              |           |
|---------------------|-----|--------------|-------------|--------------|--------------|--------------|-----------|
| 2022-08-12 14:13:30 | GPS | 4293057.4564 | 793952.5294 | 4635654.9390 | 46.908793555 | 10.477822934 | 1110.7094 |
| 2022-08-12 14:13:30 | GLO | 4293054.9773 | 793951.3960 | 4635651.7092 | 46.908791075 | 10.477814225 | 1106.5446 |
| 2022-08-12 14:13:30 | GAL | 4293056.6054 | 793952.9604 | 4635654.4418 | 46.908795481 | 10.477830528 | 1109.8282 |
| 2022-08-12 14:13:30 | BDS | 4293066.2046 | 793959.5254 | 4635658.7611 | 46.908752184 | 10.477892338 | 1120.2465 |



BNC





Equipment

2022-08-07 00:00:00 TRIMBLE NETR9 5.52 515 TRM57971.00 NONE 515

Program info

G-Nut/Anubis [2.3] compiled: Dec 30 2020 11:00:17 (\$Rev: 2843 \$)  
BNC 2.13.0 (checkout 9163)