

**Kinematic mode processing**

Single or dual-frequency observables processed

RINEX file name

Used Products: ephemerides and clock corrections (FINAL, RAPID or ULTRA-RAPID)



CSRS-PPP 2.4.0 (2018-06-26)



The Antenna Phase Centre (APC) to the Antenna Reference Point (ARP) offset used by CSRS-PPP based on antenna model listed on the RINEX header record

**Data Start**  
2011-02-25 00:00:00.00  
**Processing Time**  
17:45:34 UTC 2018/07/23  
**Observations**  
Phase and Code  
**Elevation Cut-Off**  
7.5 degrees  
**Antenna Model**  
AOAD/M\_T NONE

SampleKine.11o

**Data End**  
2011-02-25 00:59:59.00

**Duration of Observations**  
0:59:59

**Frequency**  
Double

**Product Type**  
IGS Final

**Mode**  
Kinematic

**Rejected Epochs**  
0.00 %

**Estimation Steps**  
1.00 sec

**APC to ARP**  
L1 = 0.091 m L2 = 0.120 m

**ARP to Marker**  
H:0.000m / E:0.000m / N:0.000m

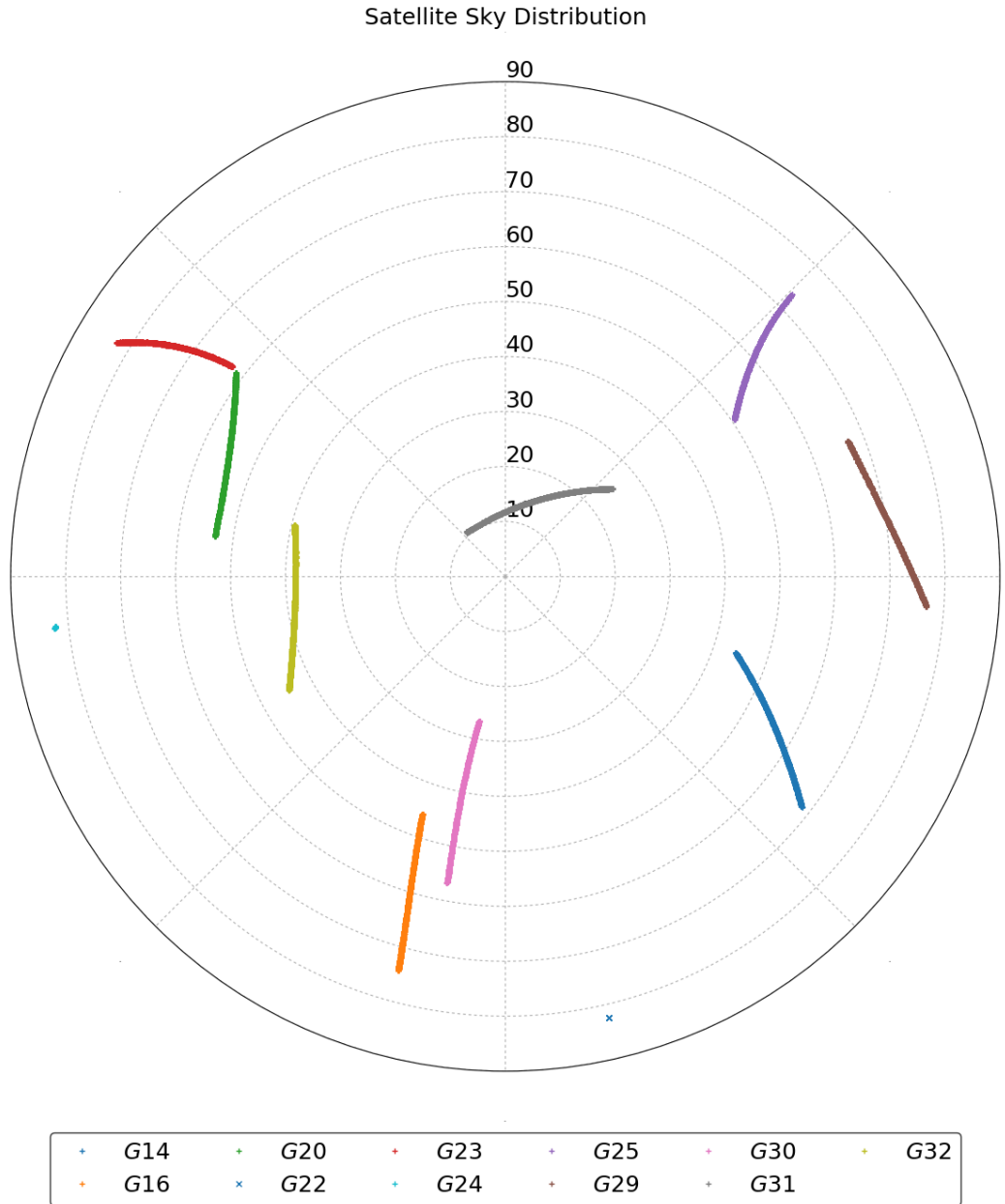
(APC = antenna phase center, ARP = antenna reference point)

Estimated NAD83 Positions for SampleKine.11o can be found in SampleKine.11o.pos

ARP to the Survey Marker distance is provided by the user on the "ANTENNA: DELTA H/E/N" RINEX header record. The ARP is usually the bottom of the antenna mount

## Page 2 – Satellite Sky Distribution

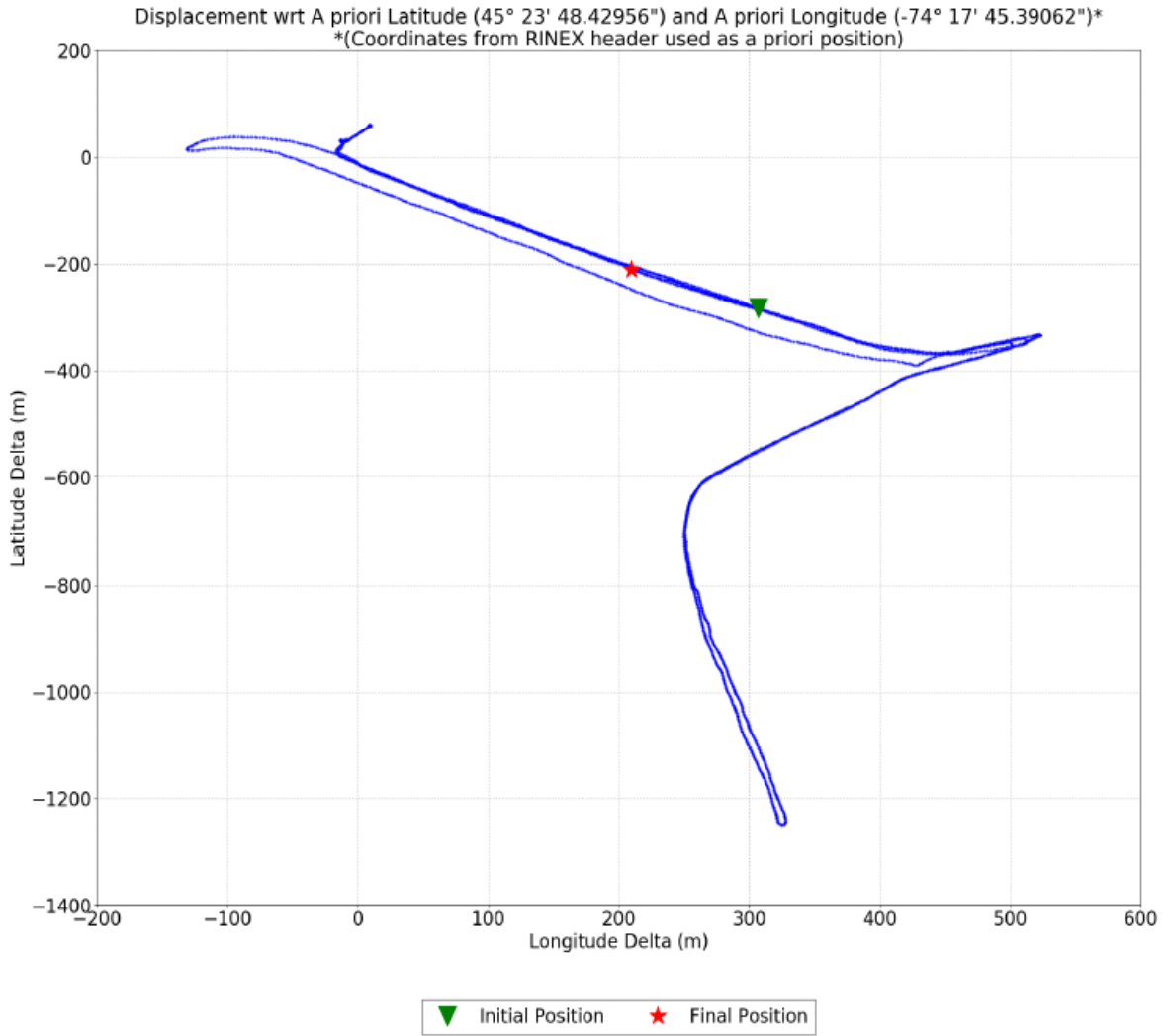
The plot shows the track off each satellite in the sky relative to the antenna. The center of this polar projection plot would be directly overhead while the outer ring of this plot would be the horizon. The plot is oriented so that North is in the “up” direction on the page.



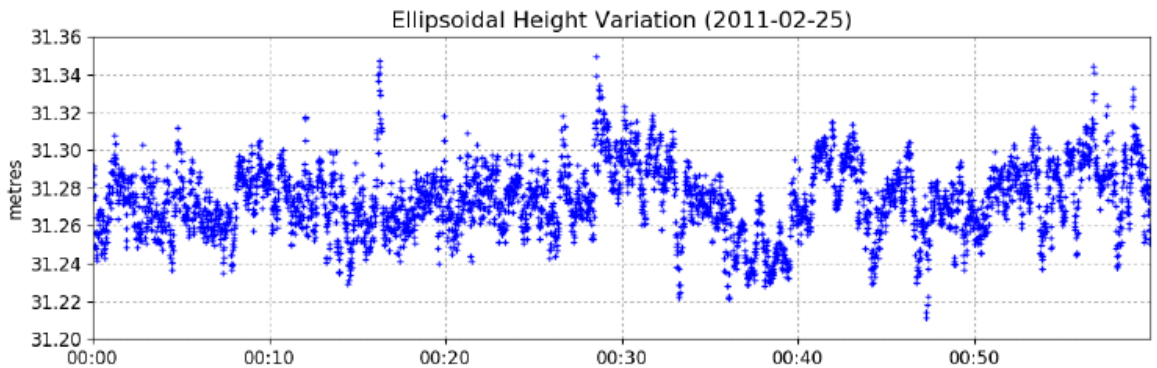
# Page 3 – Displacement:

- 1- The horizontal displacement wrt the a priori position.
- 2- Ellipsoidal Height variation

1.

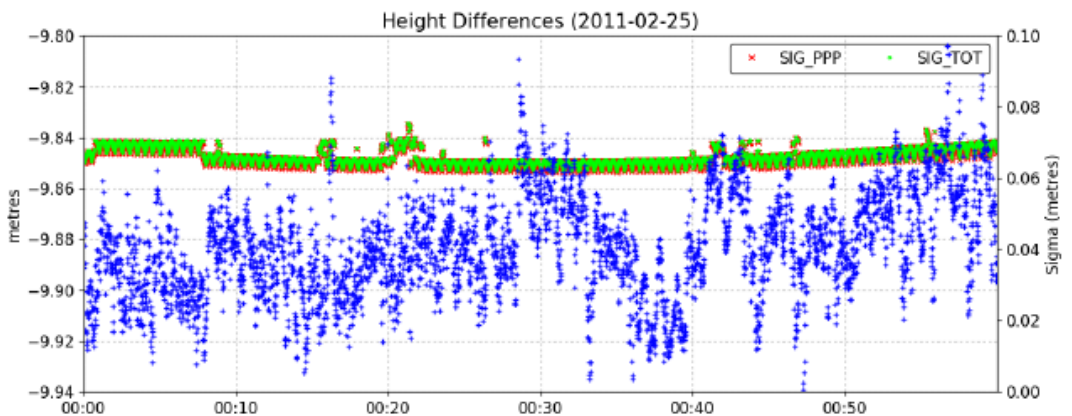
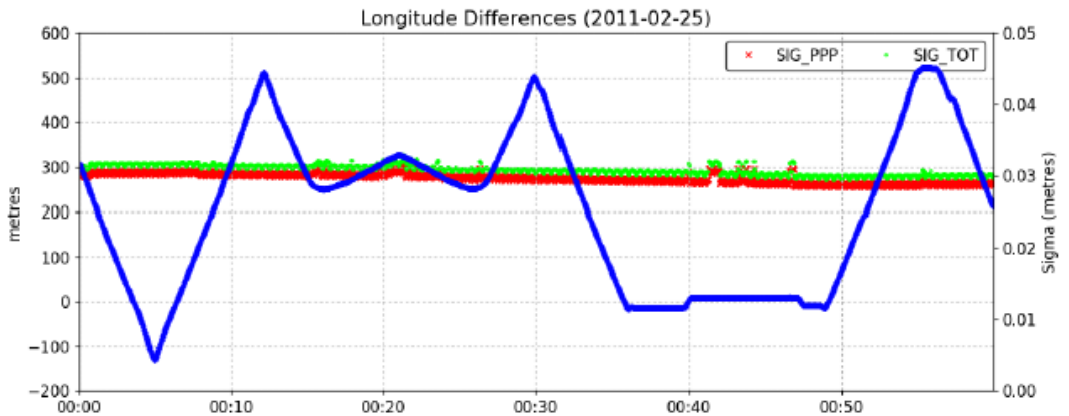
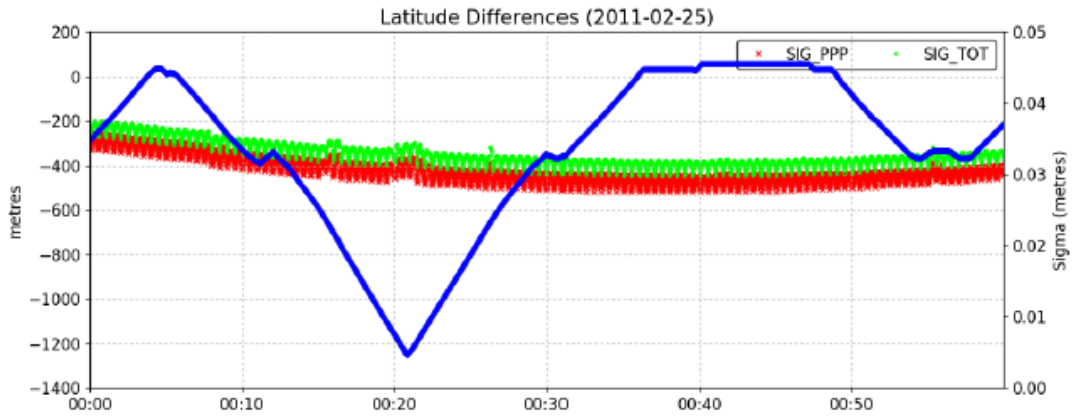


2.



# Page 4 – Latitude / Longitude / Height Differences

The plots show the time-series of the difference between the estimated and a priori positions for each epoch where the a priori positions are taken from RINEX header or from code solution. The red and green lines respectively show the standard deviation (95%) of PPP estimated positions and the total standard deviations including the uncertainties of the epoch transformation if any.

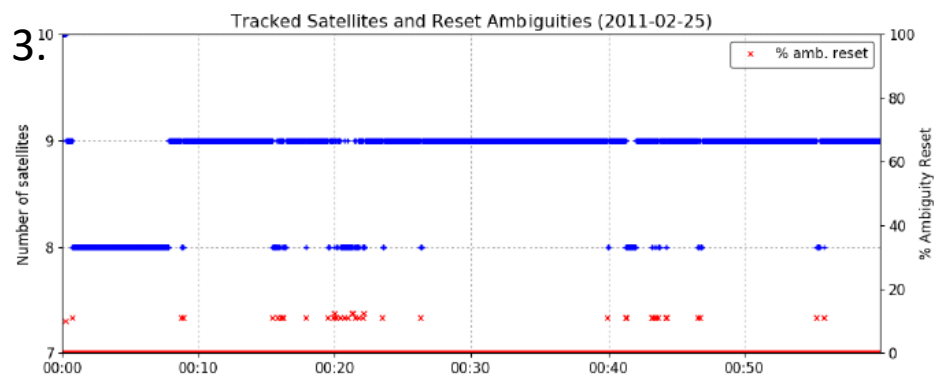
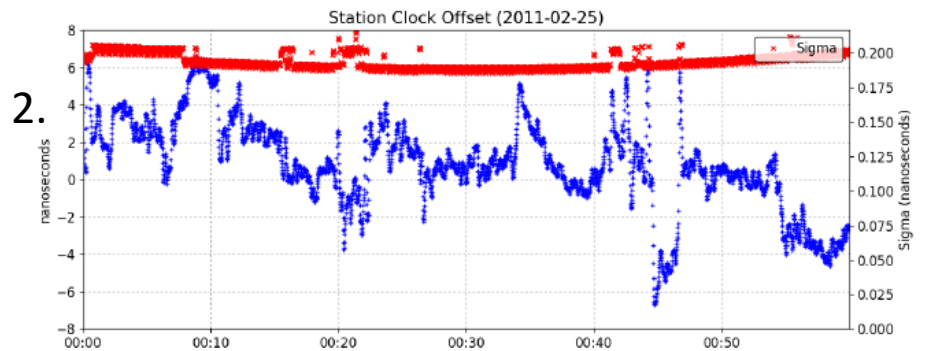
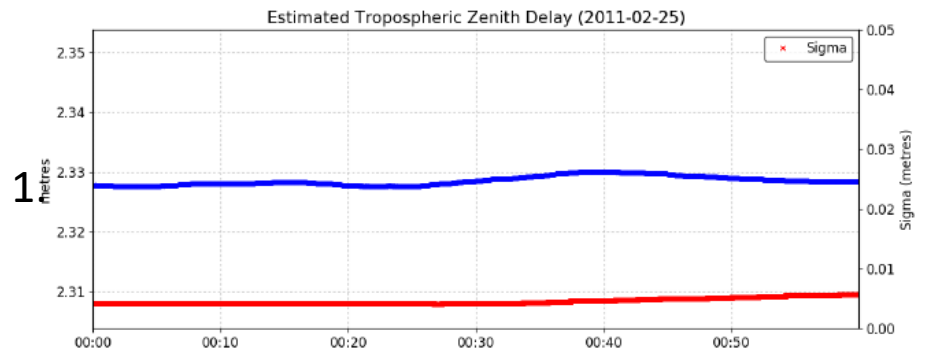


# Page 5 – Estimated Tropospheric Zenith Delay / Station Clock Offset / Tracked Satellites and Reset Ambiguities

1- The “Estimated Tropospheric Zenith Delay” plot shows the total estimated troposphere delay in the zenith direction for each epoch in the solution.

2- The “Station Clock Offset” plot shows the estimated offset between the receiver clock and GPS time for each epoch in the solution.

3- The “Tracked Satellites and Reset Ambiguities” plot shows the number of satellites tracked in blue and the % of ambiguities reset in red.



# Page 6 – Carrier-Phase / Pseudo-Range Residuals

The “Residuals” plots show the estimated Carrier Phase and Pseudo-Range (code) residuals for each processed satellite at each epoch.

