

MA-10P MADOCA/PPP Performance

Test Report

The purpose of this test is to verify the PPP positioning performance of the MA-10P^[1]. The verification method involves comparing the results with known points, as well as comparing them with the results of the MALIB^[2] tests.

Test scenario:

OSAKA, JAPAN

Open sky environment



Test:

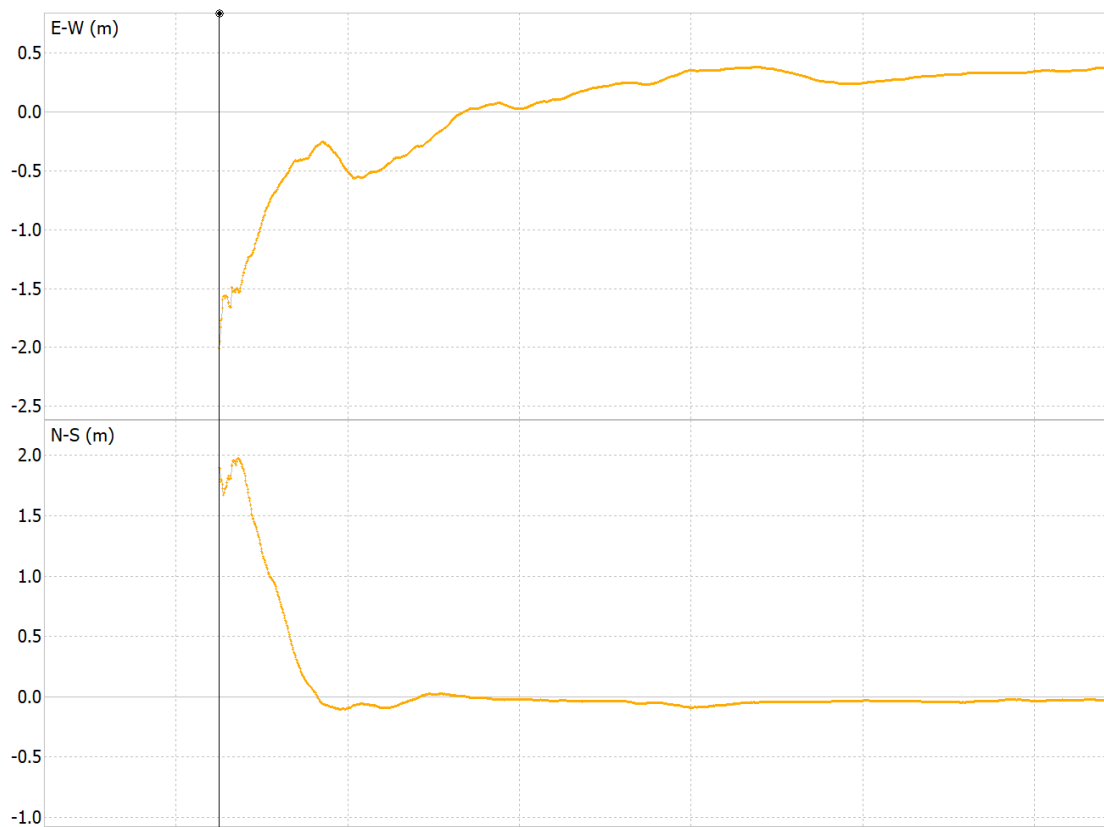
Use a RF splitter to split the signal into two parts. One MA-10P device outputs NMEA data, while the other outputs RTCM3 data for processing by MALIB.

MALIB is running on X86_64 under WSL Ubuntu, and the system has sufficient computational power.

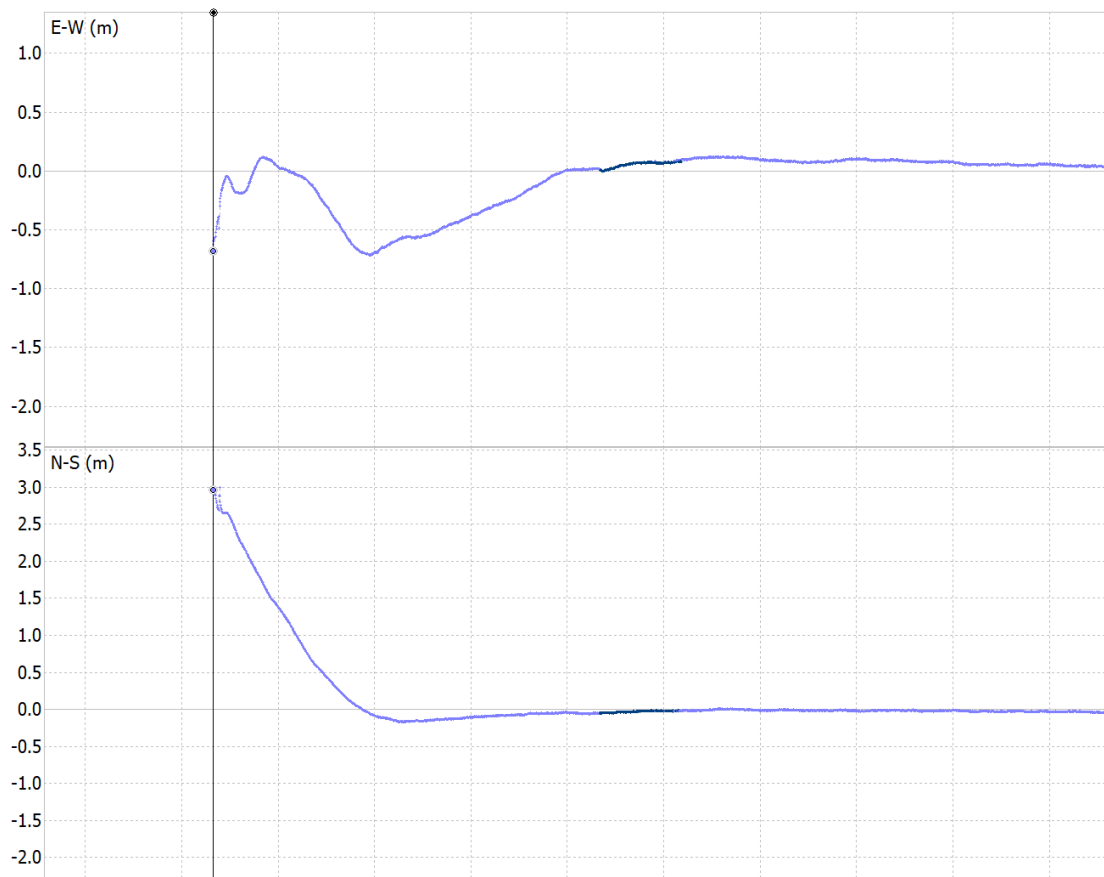
The correction data for MADOCA/PPP comes from QZS-6C.

Configuration: Elev mask 15°.

1. Initial time for PPP

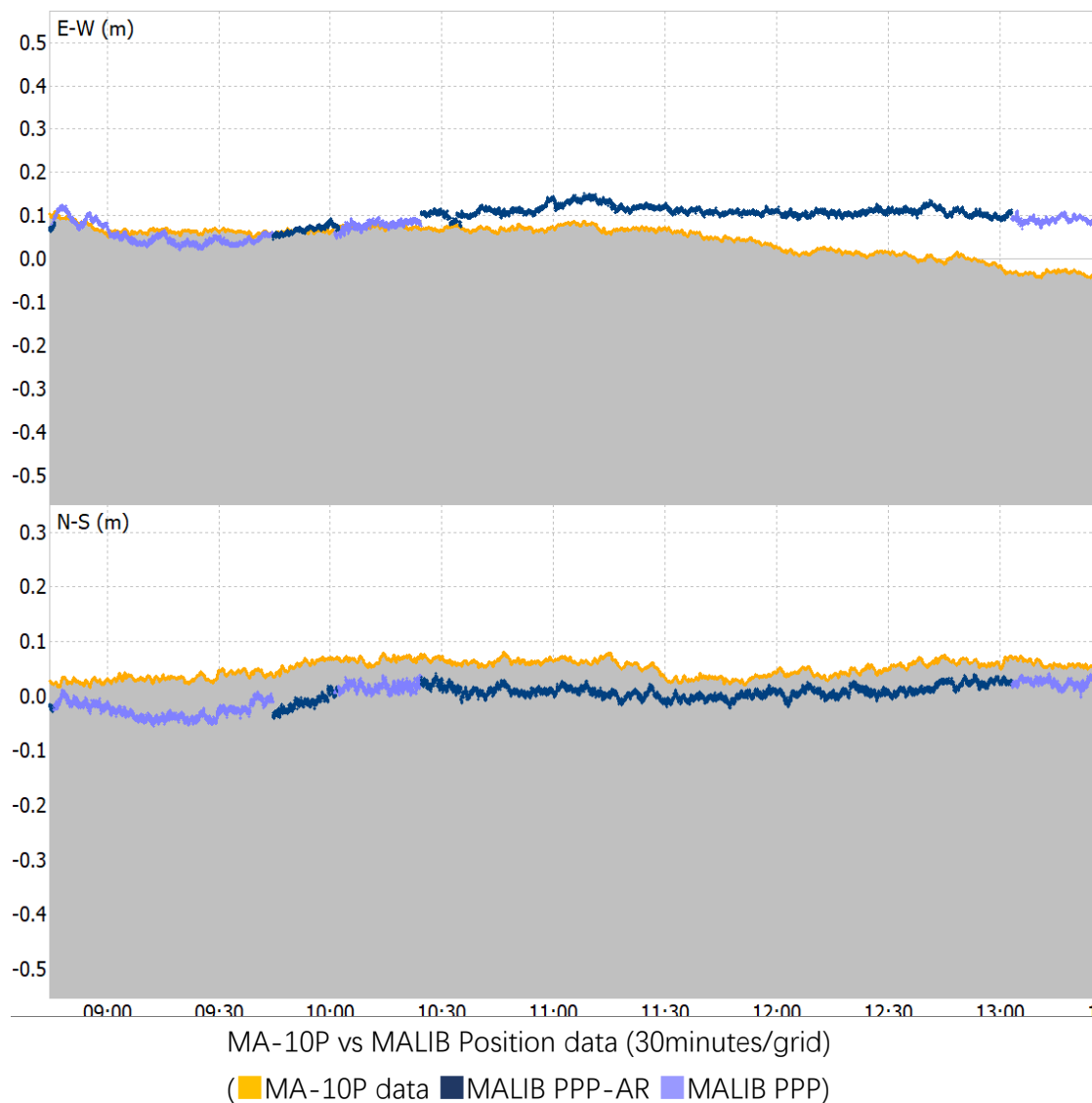


MA-10P coverage time (5minutes/grid)



MALIB coverage time (5minutes/grid)

2. Accuracy



3. Conclusion

The MA-10P can complete PPP initialization within 15 minutes in opensky environment.

The MA-10P can achieve MADOCA/PPP positioning results with an accuracy of 0.1 meters in opensky environment.

The MA-10P currently does not support PPP-AR.

Reference:

[1] https://docs.datagnss.com/gnss/rtk_receiver/MA-10P/

[2] <https://github.com/JAXA-SNU/MALIB>