

School at Sea - Sea level experiment

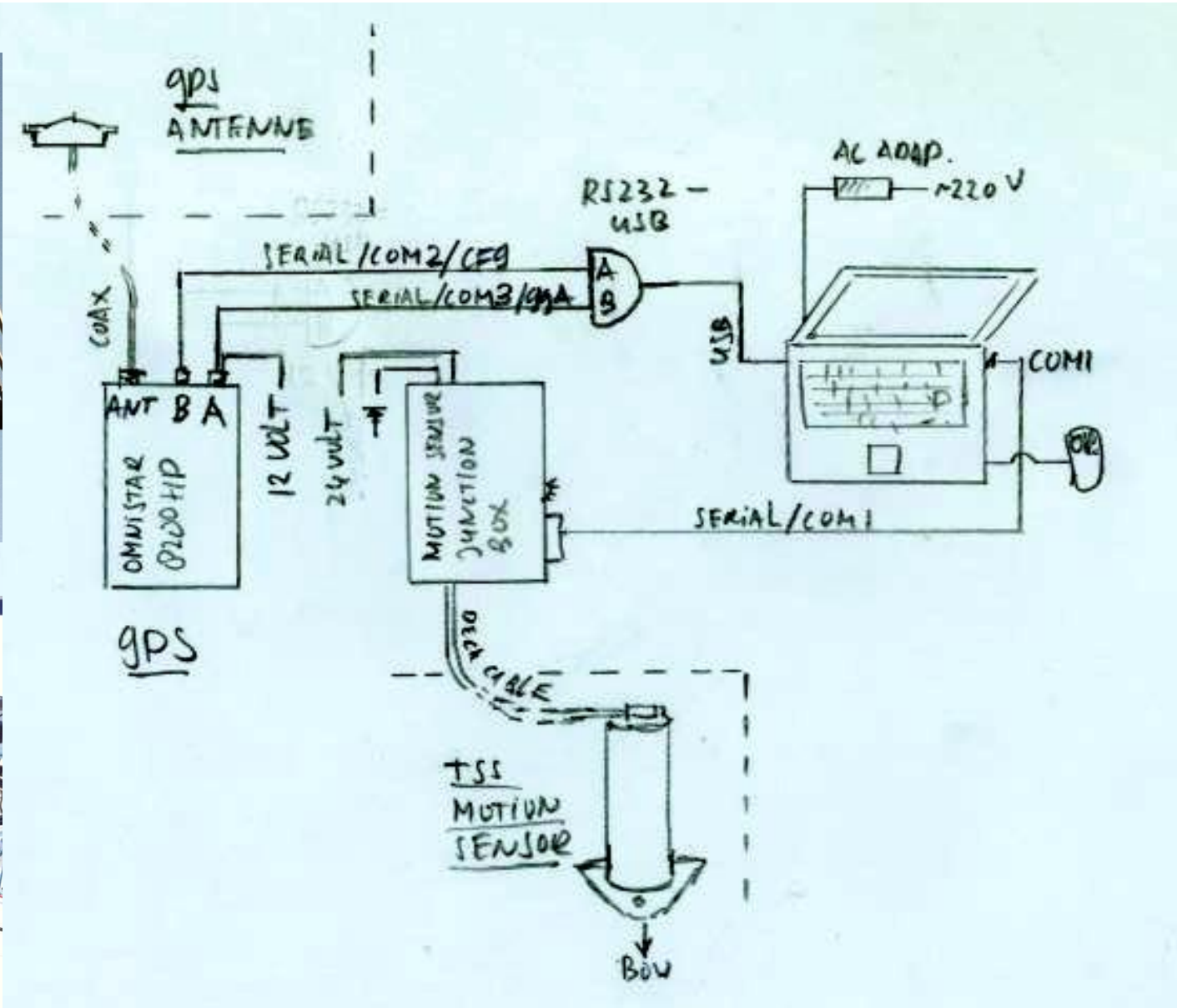
Etappe 1 GPS en Motion Sensor Resultaten

Hans van der Marel, Aerospace Engineering

19-11-2011

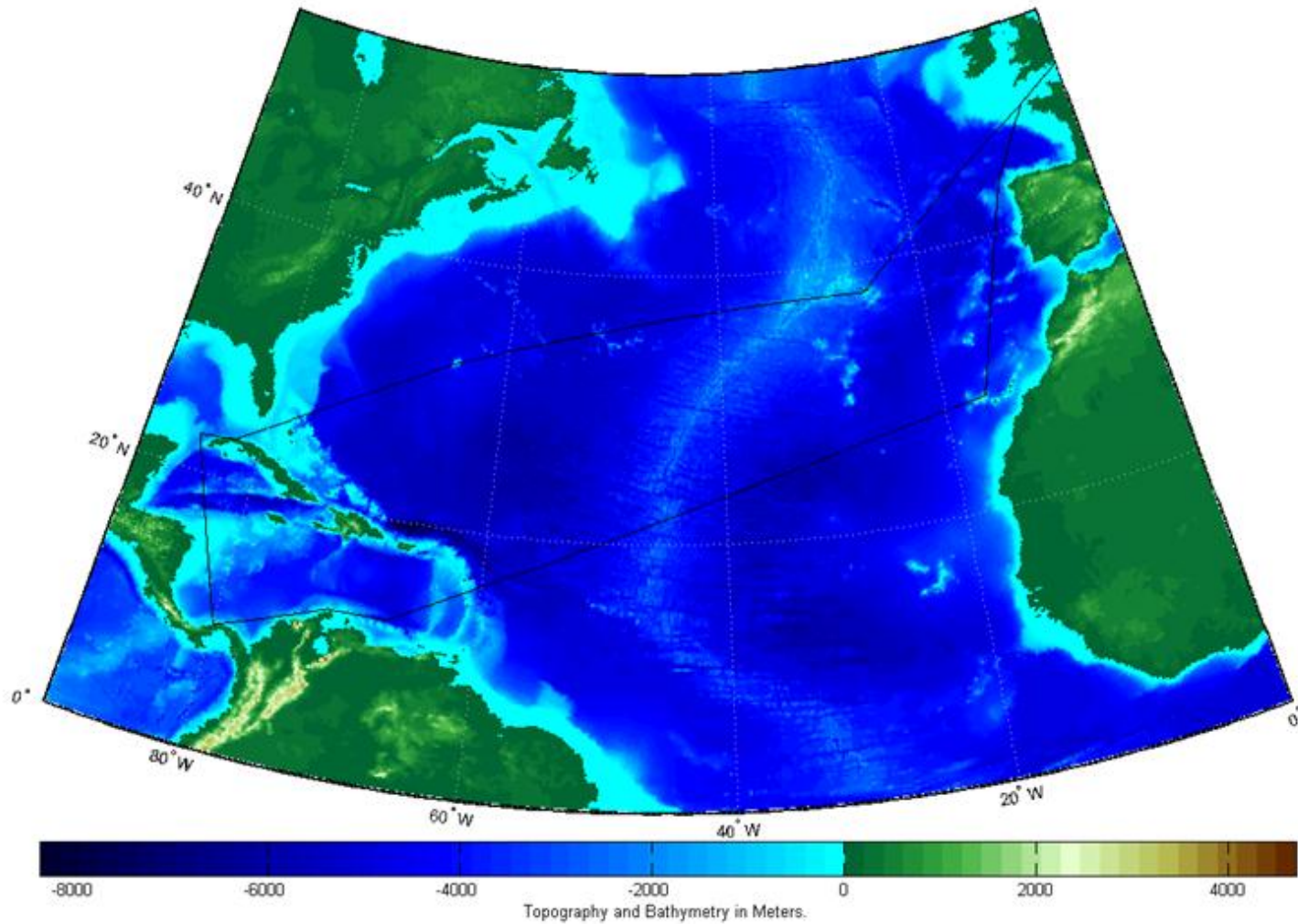
S@S Sea level experiment

- Doel: meten van het zeeniveau
- Instrumenten: GPS & motion sensor
 - Omnistar XP systeem van Fugro Survey B.V.
 - GPS ontvanger met XP correcties (van geostationaire satelliet)
 - Motion Sensor (Pitch, Roll, Heave)
- Locale meting a/b Regina Maris (GPS Antenne -> zeeniveau)
- Referenties:
 - Presentatie Bert Vermeersen over Beagle II
 - Hans van der Marel, Zeeniveau Waarnemingen door School at Sea a/b Regina Maris, Versie 1.0b d.d. 24 October 2011

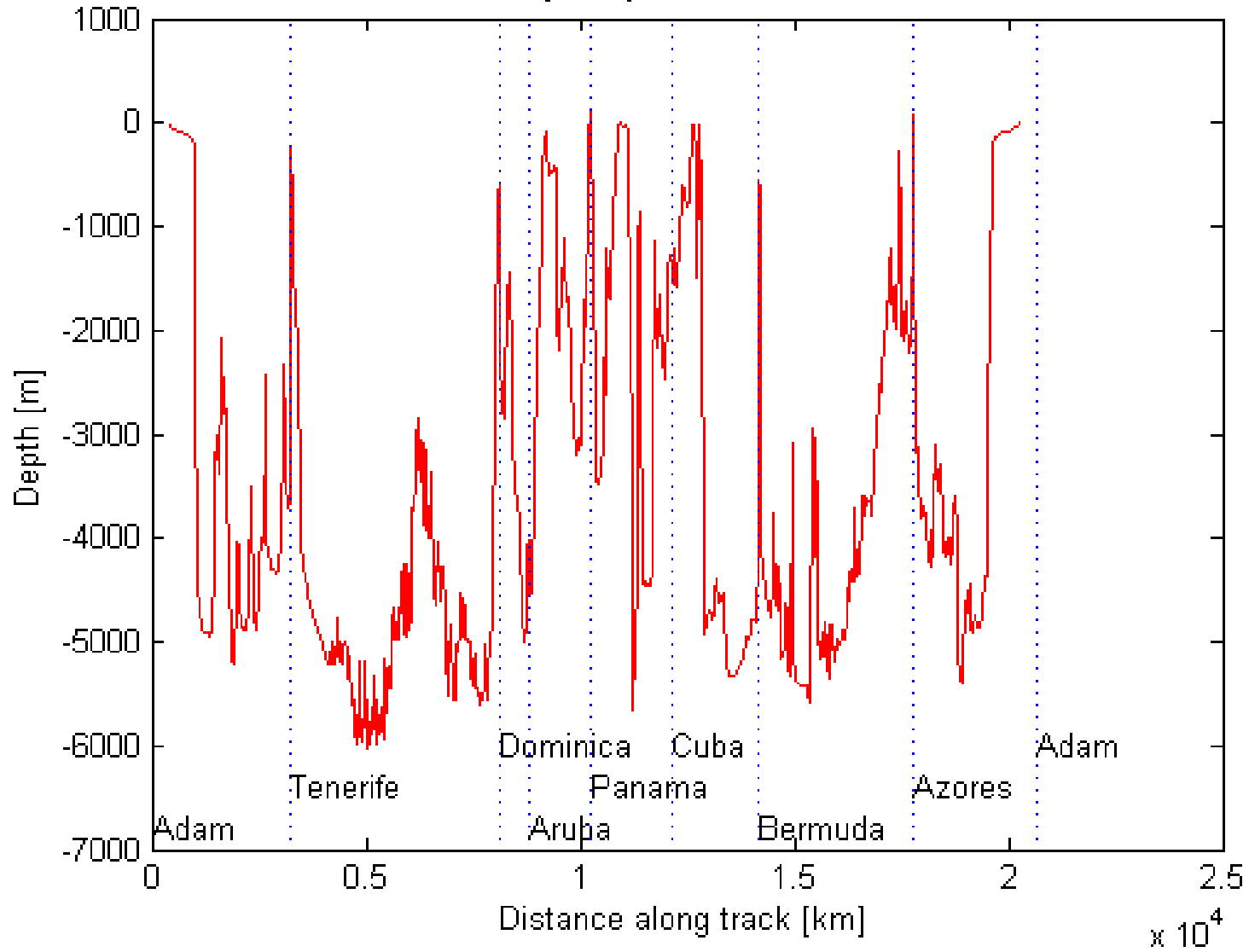


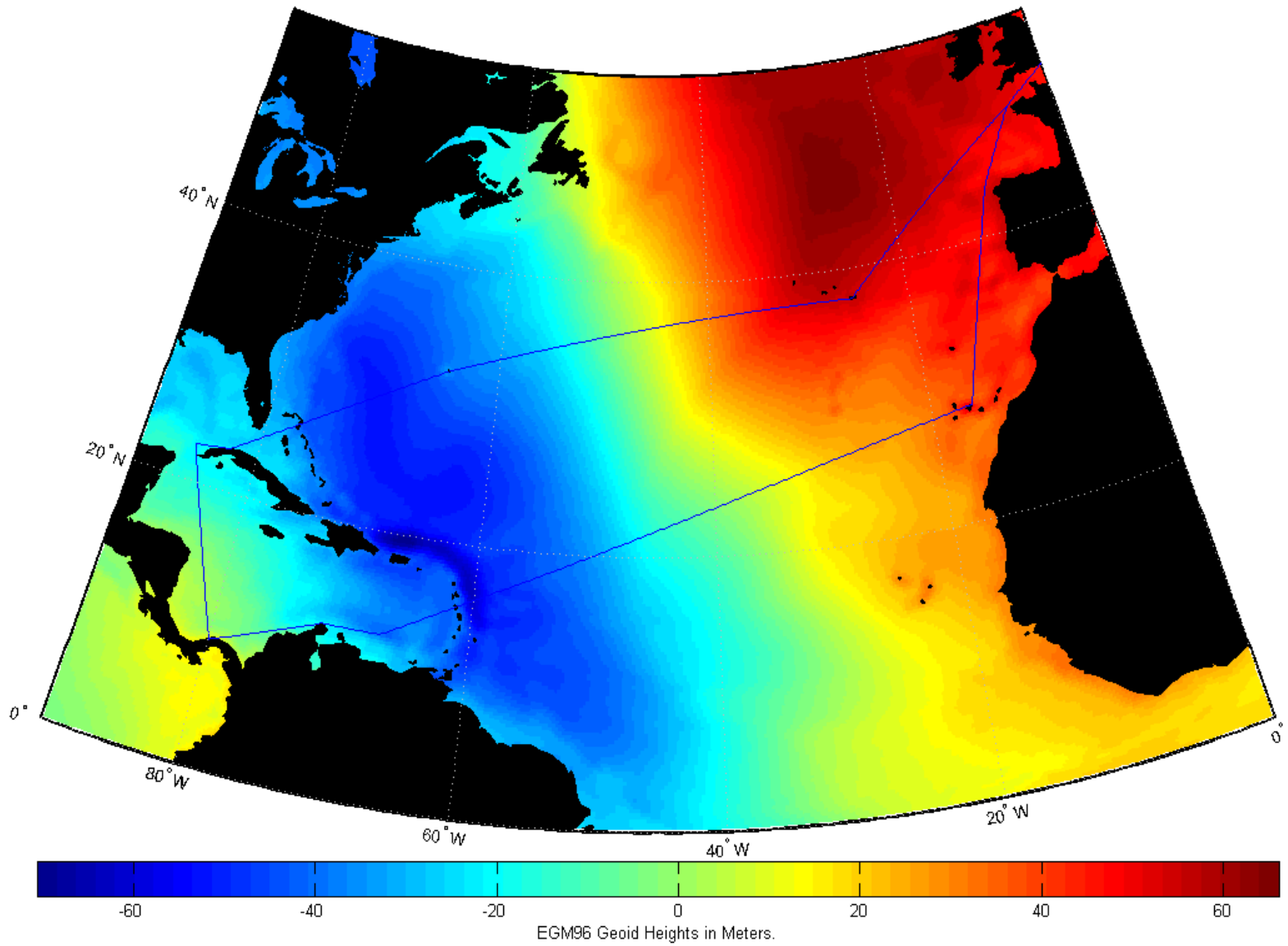
Wat kunnen we verwachten?

- Zie ook:
 - Presentatie Bert Vermeersen over Beagle II
 - Hans van der Marel, Zeeniveau Waarnemingen door School at Sea a/b Regina Maris, Versie 1.0b d.d. 24 October 2011

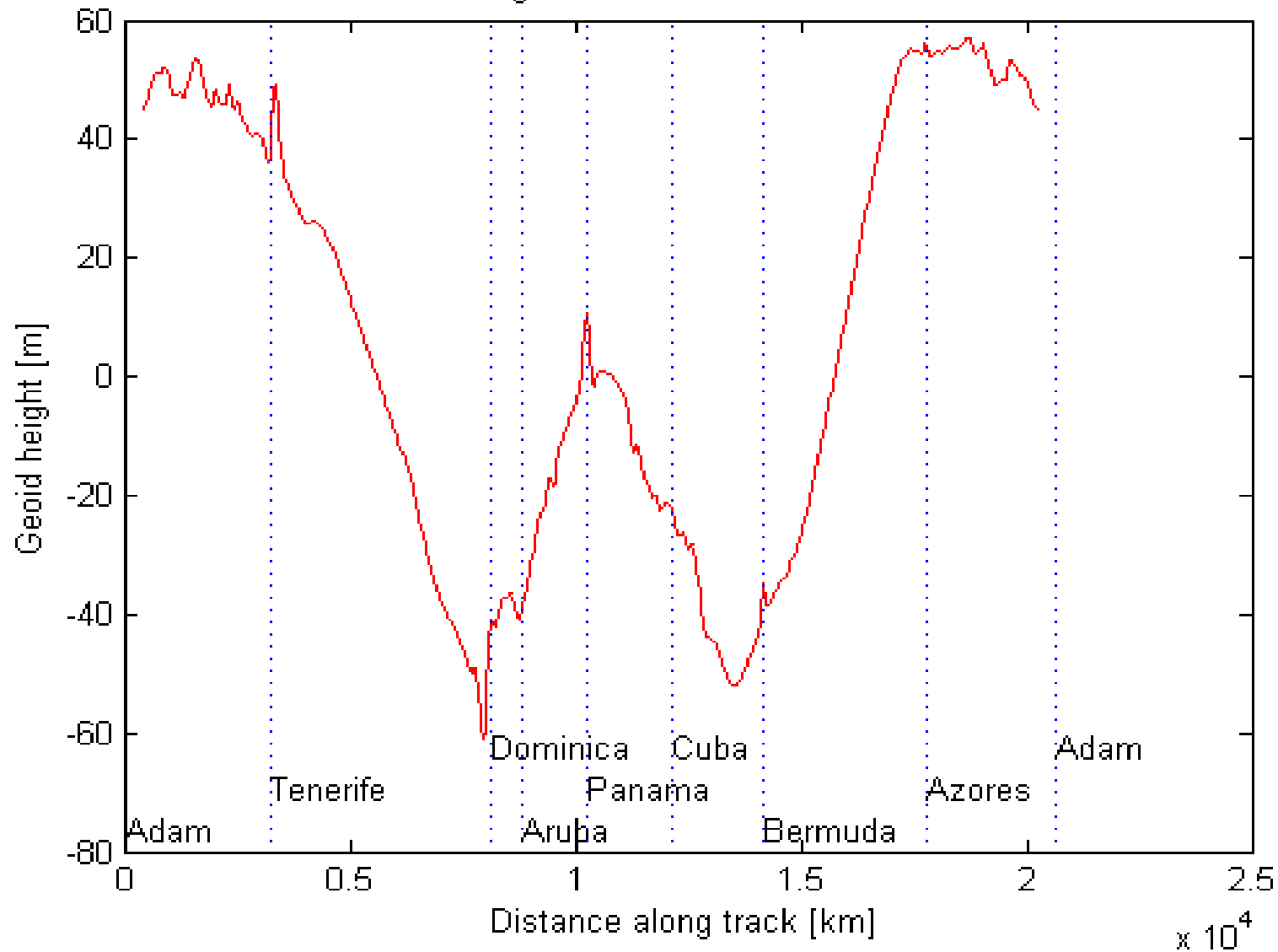


ETOPO5 Ocean Bathymetry Amsterdam-Caribbean-Amsterdam

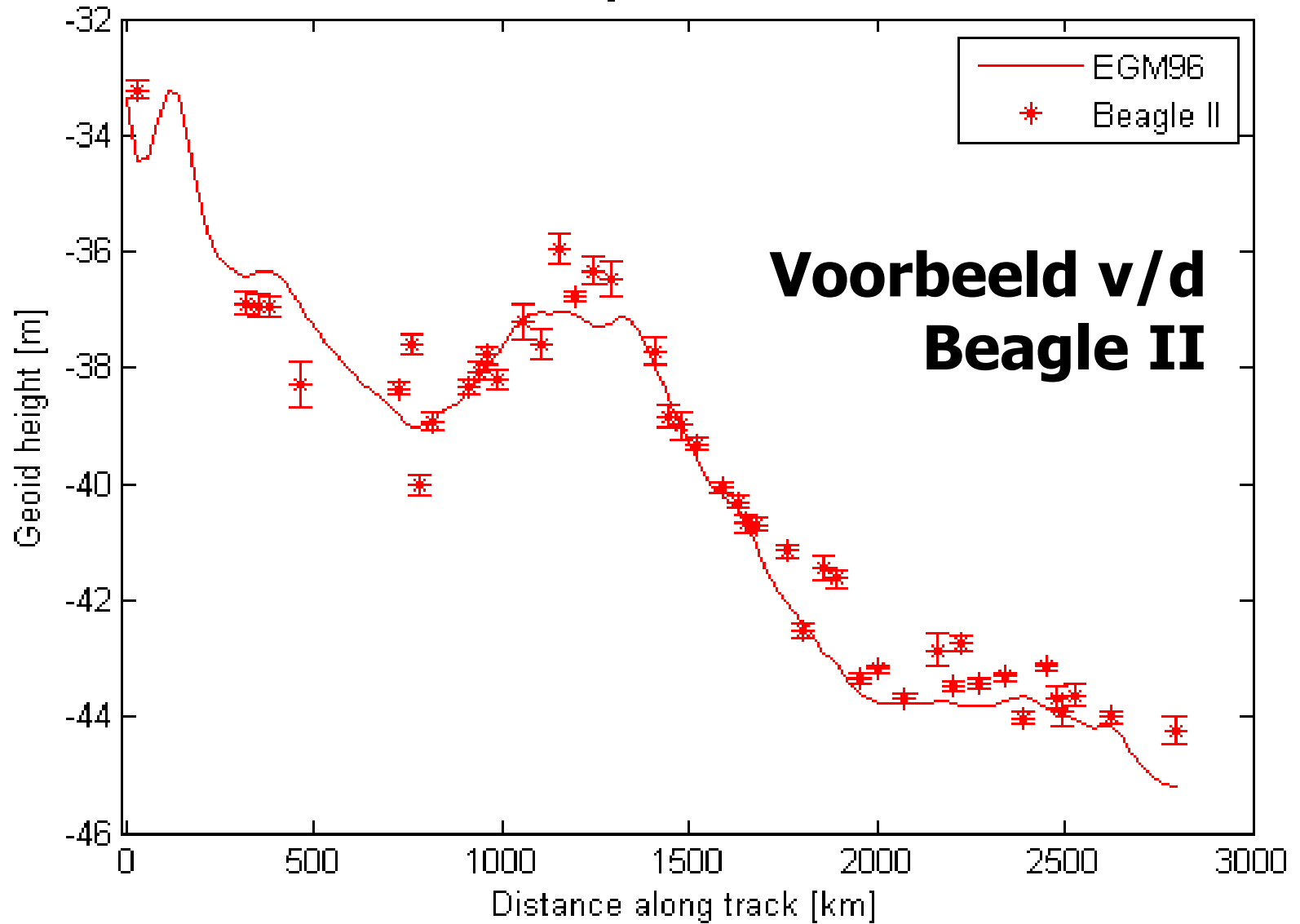




EGM Geoid Heights Amsterdam-Carribean-Amsterdam



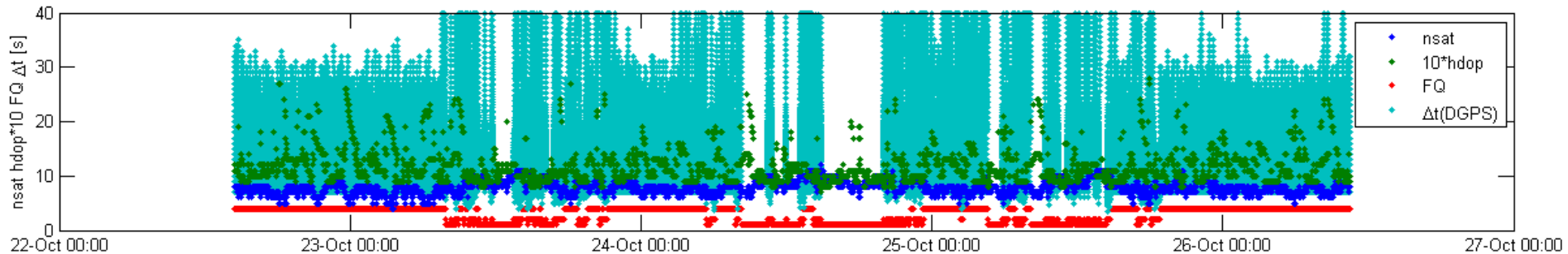
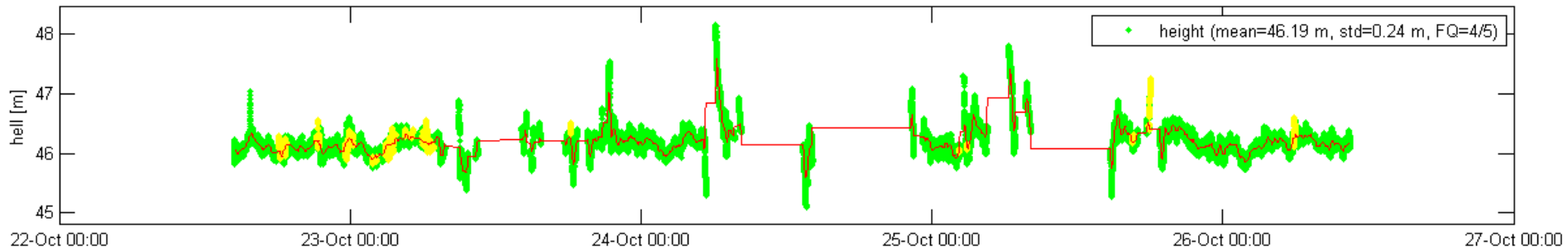
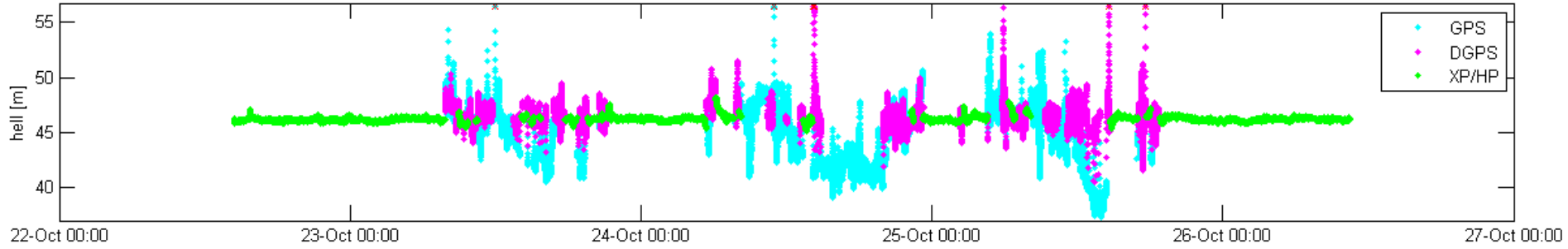
Geoid Heights Perth-Mauritius.



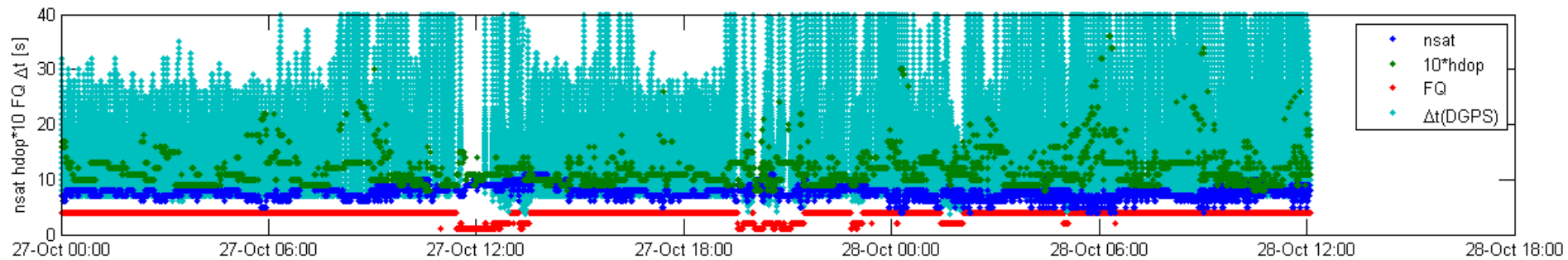
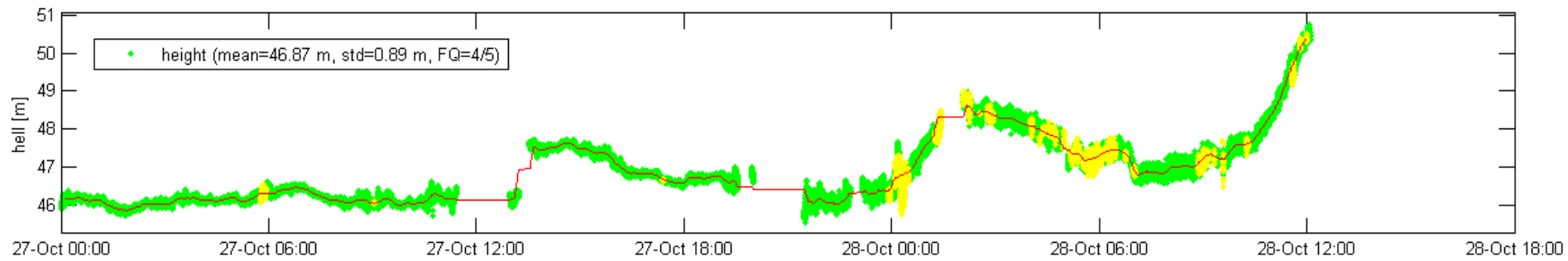
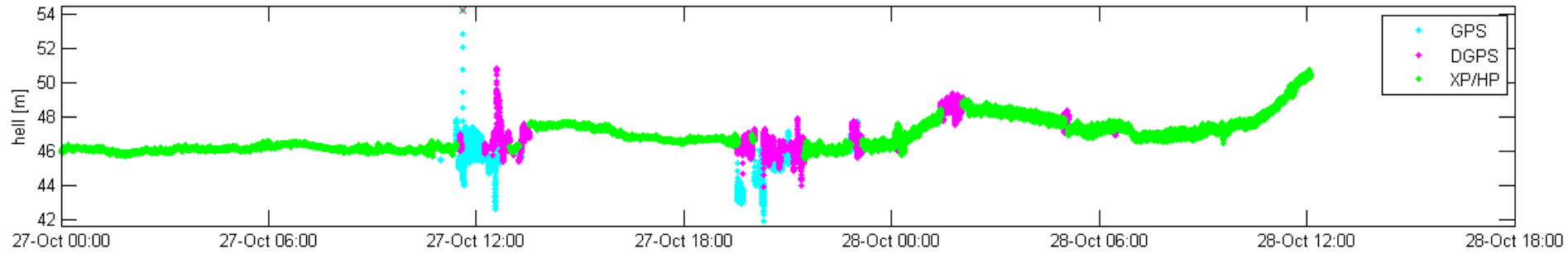
Eerste resultaten

- GPS
- Motion Sensor (Pitch, Roll, Heave)

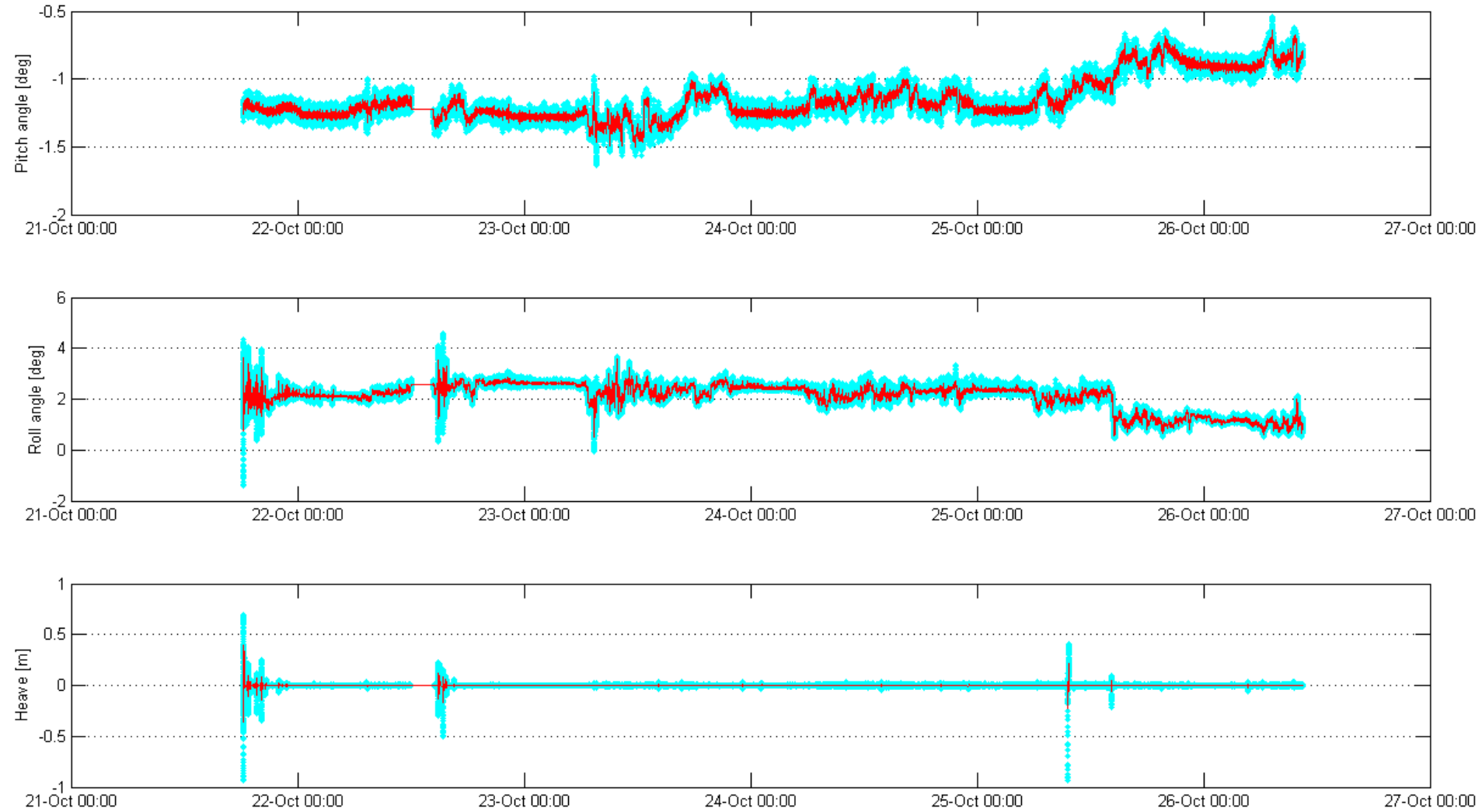
school at sea



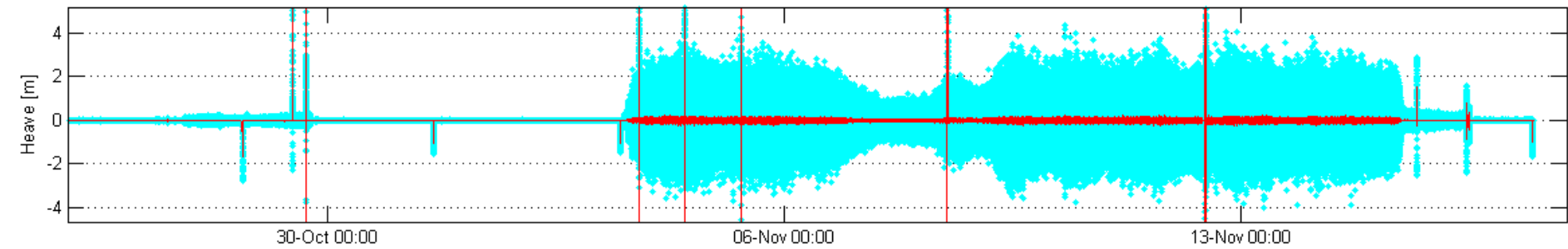
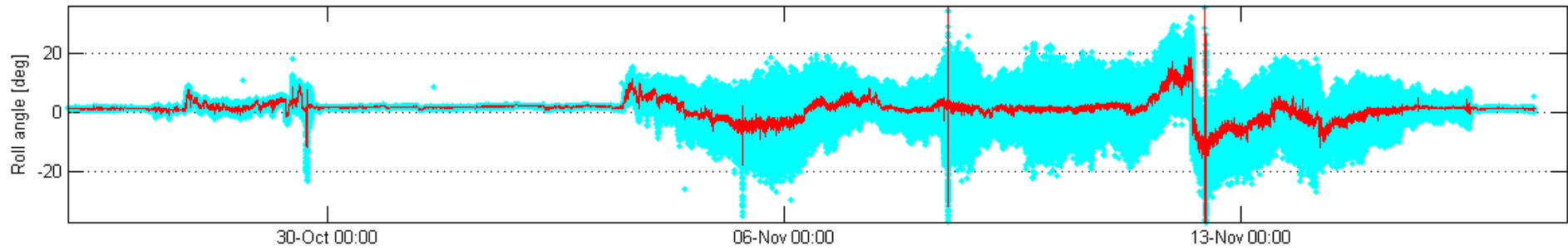
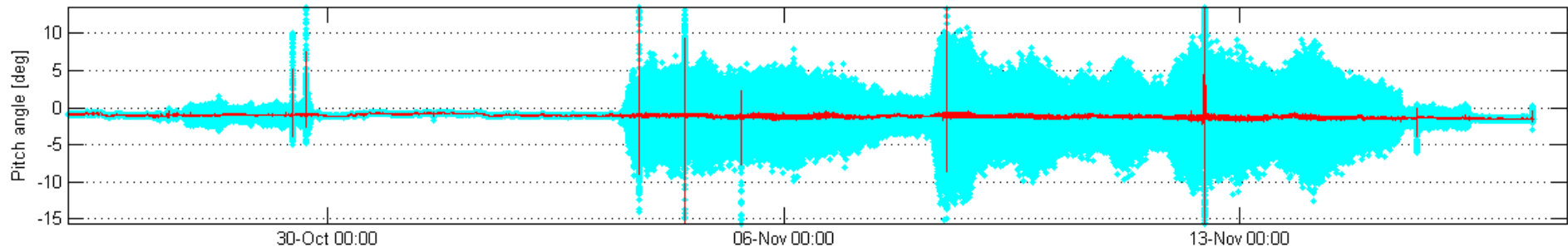
NMEA GGA data



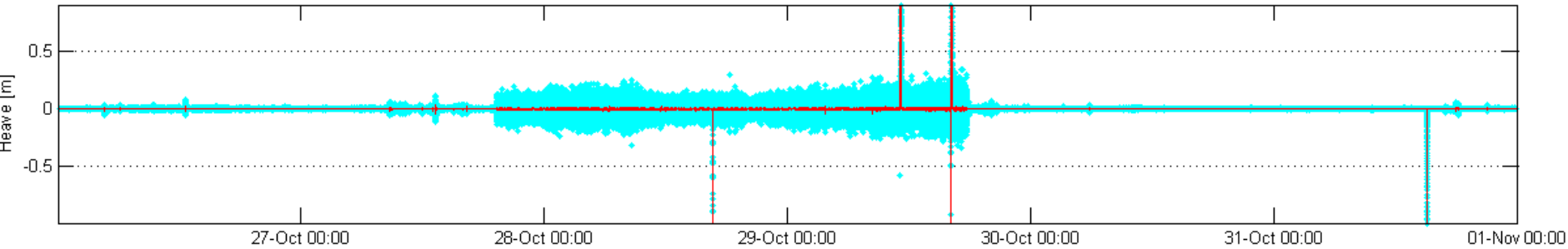
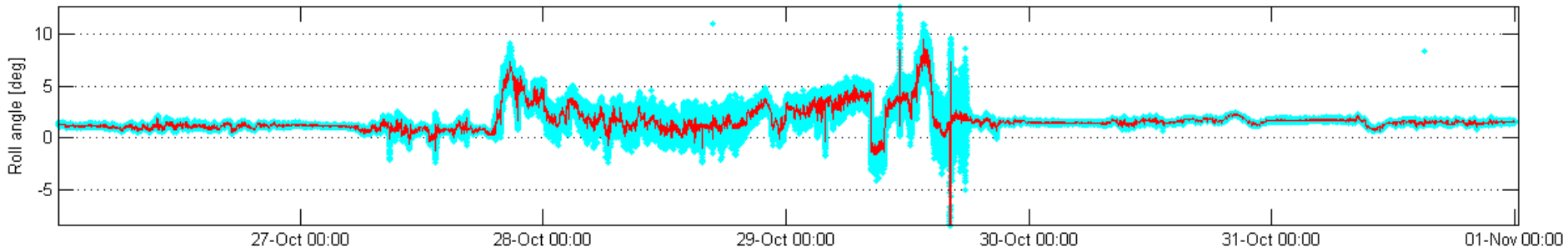
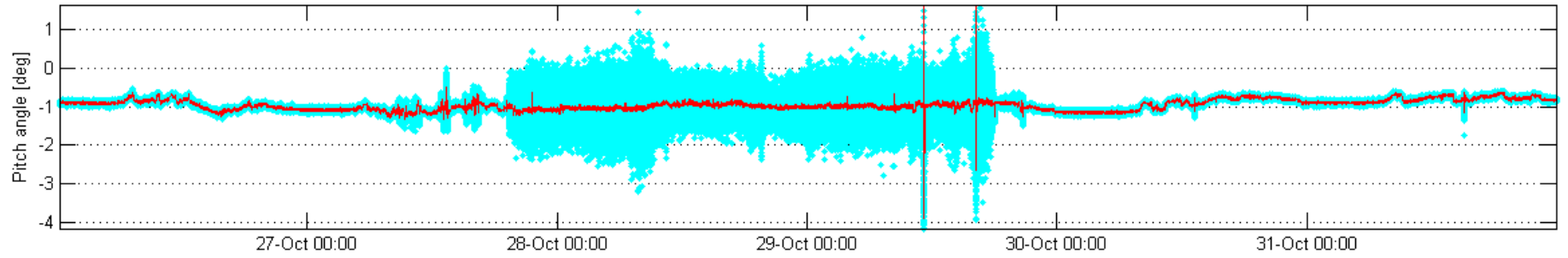
data/RawIn*



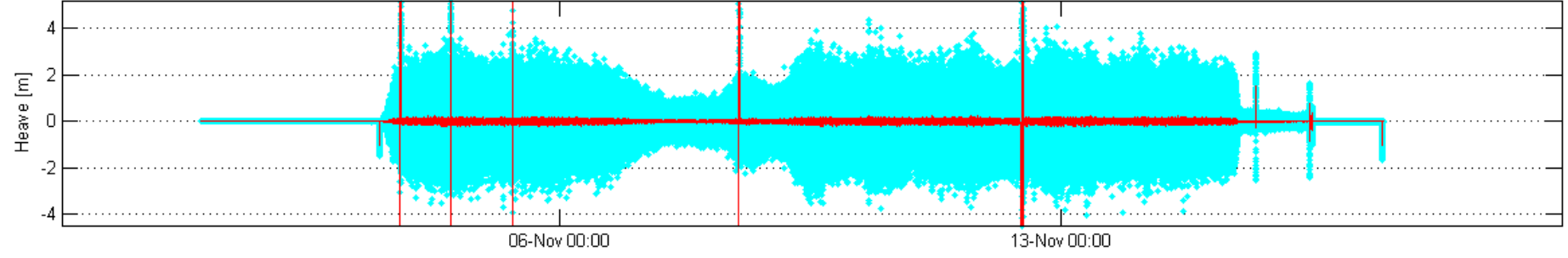
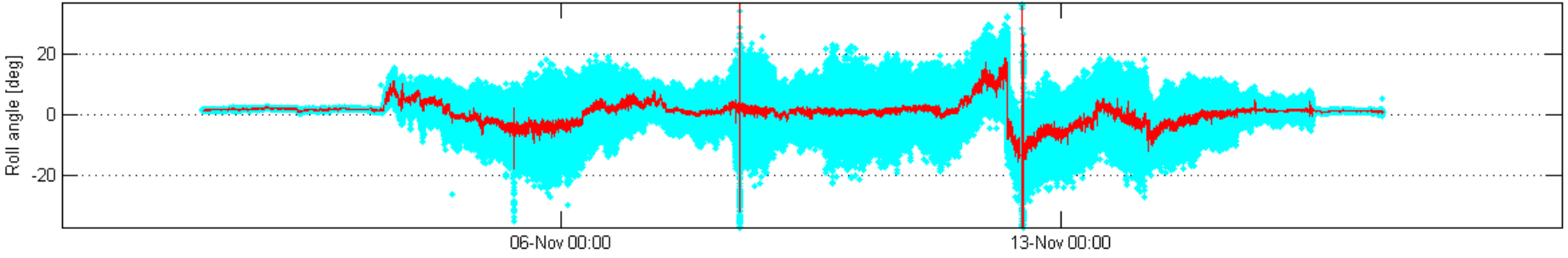
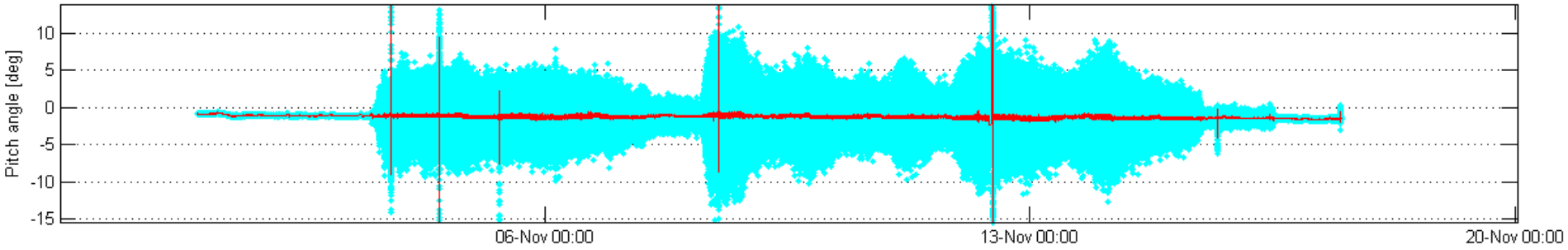
data/RawIn*



data/RawIn*201110*



data/RawIn*201111*



Volgende Etappe

- Reparatie GPS antenne kabel
- Meting hoogte GPS antenne tov zeeniveau
- Wisselen van Geostationaire Satelliet (zie handleiding)!!

STARFIX HIGH-POWER SPOT COVERAGE

