

Status report December 2013

Nordic GNSS Data Analysis Centre

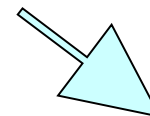
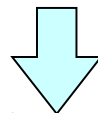
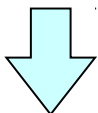
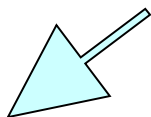
Martin Ridal, SMHI

Status and plans

- Currently SMHI is processing Swedish, Norwegian, Finnish and Danish stations
- Norway will start to process their stations – OGAA (Oslo GAA)
 - Capacity limits at SMHI
 - Problems with permissions to hand out oil rig data to SMHI
 - Time plan?
- NGAA will then be Norrköping GAA
- There are plans in Denmark to start CGAA (Copenhagen) but not in the near future

Part 1 – Satellite Orbit & Clocks:

- get_orbits: Ultra rapid orbits & clocks from JPL



Part 2a - PPP Analysis:

- get_SWEPOS (Sweden)
- qm4ppp: Editing and quality check
- point_1h: Estimation of trop. parameter using PPP

➤ Part 2b - PPP Analysis:

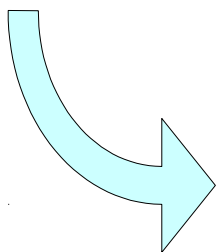
- get_satref (Norway)
- get_IGS (Europe)
- qm4ppp: Editing and quality check
- point_1h: Estimation of trop. parameter using PPP

Part 2c - PPP Analysis:

- get_finnet (Finland)
- get_finnet_2 (Trimble net)
- qm4ppp: Editing and quality check
- point_1h: Estimation of trop. parameter using PPP

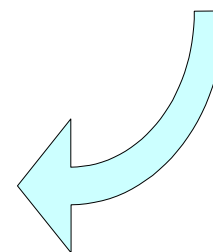
Part 2d - PPP Analysis:

- get_dannet (Denmark)
- get_dknet (Trimble net)
- qm4ppp: Editing and quality check
- point_1h: Estimation of trop. parameter using PPP



Part 3 – Combined ZTD and Quality

- costprod_file: Merging the solutions and delivery of “cost-file”
- ftp SMHI and UKMO (COST-server)



Data use

MetCoOp

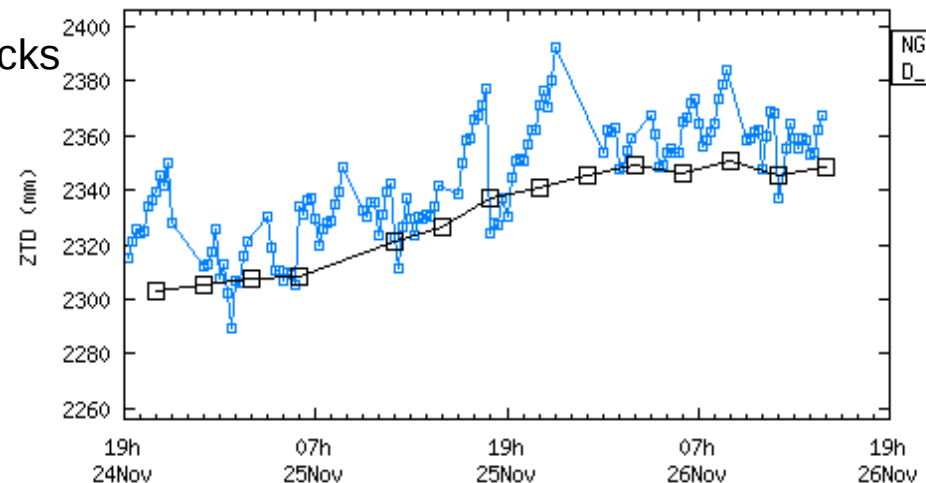
- Cooperation between Sweden and Norway to run operational weather forecasts
 - Operational in March 2014
 - Plan is to include GNSS in the operational runs

HARMONIE

- Variational bias control has been developed and tested
- First experiments has been run
- Will be part of the high resolution observation impact study together with radar and IASI data

Status and plans: News

- Migration to a new platform is in the process
 - Better capacity but two servers will be needed
- Test environment has been set up
 - To test the new platform
 - Results are the same
 - Will be kept as a test environment
- Still problems with noisy data
 - Need to get better orbits and clocks



Status and plans: News

- A data flow through DMI has been set up
- Currently all stations from KMS (10)
- Currently only processed in the test environment

