

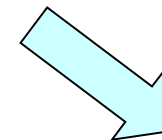
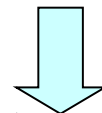
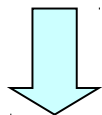
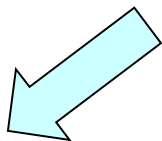
Status report November 2012

Nordic GNSS Data Analysis Centre

Martin Ridal, SMHI

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:

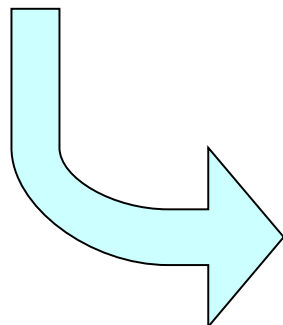
- get_satref (Norway)
 - get_IGS (Europe)
 - qm4ppp: Editing and quality check
- point_1h: Estimation of trop. parameter using PPP

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

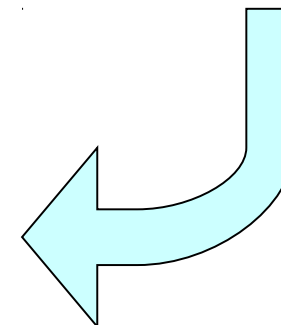
Part 2d - PPP Analysis:

- 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)



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

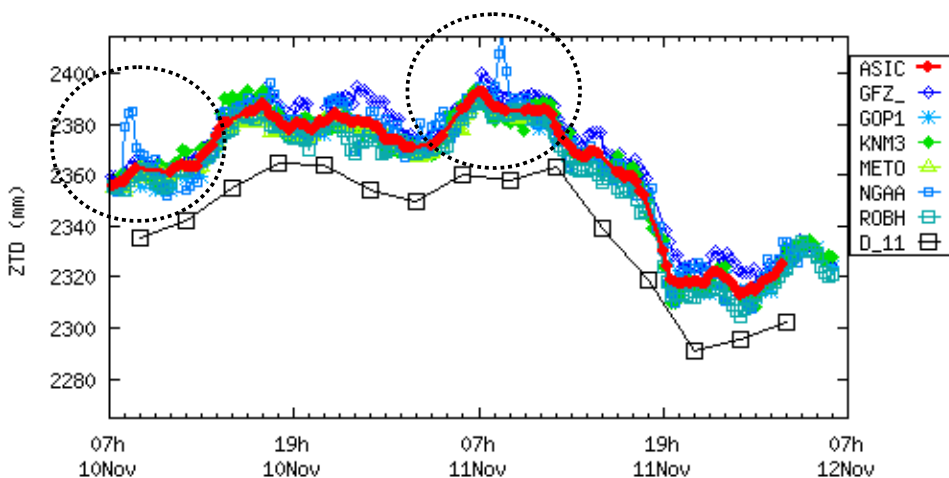
Status and plans

- Currently no data from the GPSnet.dk (private network)
- The data flow is/have been through Chalmers
- A better solution would be like the Finnish solution: Data flow through DMI

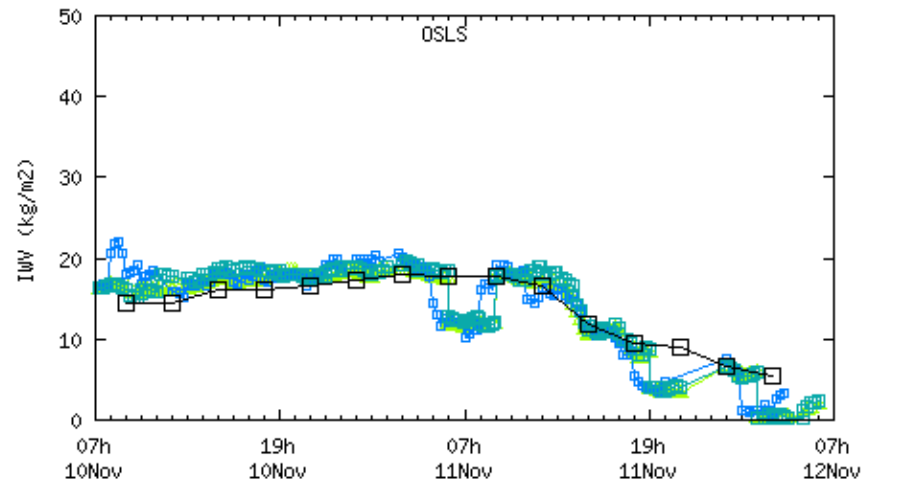
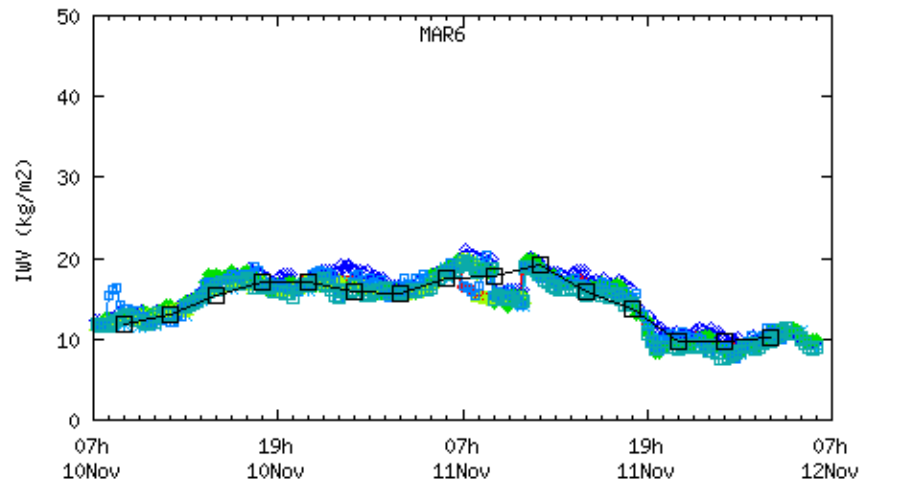
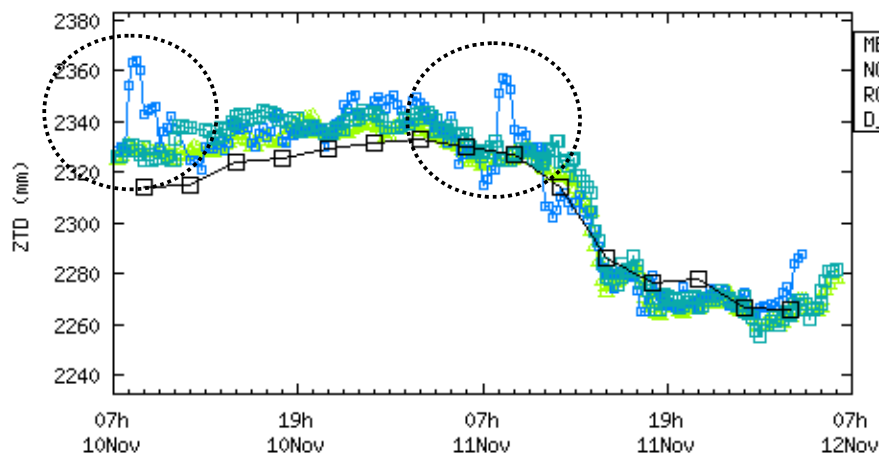


NGAA processing

Mårtsbo, Sweden



Oslo, Norway



(c)KNMI/EGVAP

(c)KNMI/EGVAP

Status and plans

- The problems with “jumps” is due to problems with orbits and clocks from JPL at midnight
- We will fetch these from IGS real time pilot project
- Jan Johansson from Chalmers is helping us with this

- We will switch to “current hour” when this is solved

Data use

MetCoOp

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

HARMONIE

- Work is underway to improve the data handling
- Will be part of the high resolution observation impact study together with radar and IASI data