



GEOSAT software development project

Kartverket

By Laila Løvhøiden, project mangager



GEOSAT software ambitions

The GEOSAT software will be used in the analysis of space geodetic data by doing combined analysis of data from VLBI, SLR, GPS and DORIS at the observation level.

This will benefit both the accuracy of satellite orbits and the geodetic reference frame

Origin of GEOSAT



Way to find them

to develop a precise multipass
method for satellite Doppler
positioning using celest
mechanics

Team GEOSAT

- Ann-Silje Kirkvik - VLBI
- Eirik Mysen – Gravimetry and combination
- Geir Arne Hjelle - Doris
- Halfdan P. Kierulf - VLBI
- Ingrid Fausk - SLR
- Kristian Breili - Altimetri
- Michael Dähnn – GPS/GNSS
- Per Helge Andersen - Everything

Project status early January 2014

- Gravimetry – “version 1” finished
- Altimetry – “version 1” finished
- VLBI processing test deliveries 10 years to IVS – NMA has applied to become an IVS-center
- SLR – intensive development ongoing
- GPS – awaiting debug and maybe a major revision
- Doris development in the parking lot due to slow project progress
- Combination – awaiting progress and available resources

Project deadline

Per Helge Andersen's
retirement June 2nd 2015



Laila Løvhøiden

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Present

Project manager GEOSAT SDP - NMA
Co-chairing UN-resolution GGRF –NMA

Previous

Head of Administration Land divisjon - NMA
Quality Manager Land divisjon - NMA

Education

Master – Innovation & Technical dev. – UiO
Master – Petroleum engineering - NTNU

Simple math

Laila \neq Geosat

GEOSAT queenie



My project management philosophy

- Empowering the team
- Motivate the team (to continue struggling)
- Building the right competence in the team
 - Build and attract competence
- Build network
- Working on group dynamics
- Ensure good working conditions for the team
 - Secure finances
 - Top management interest (right kind)

Activities/progress since January

- Zuheir Altamimi visiting all week 35 – teaching the team CATREF (the programme used for ITRF2013)
- Processing a lot of VLBI data and uploading to ITRF2013
- Finishing the SLR – in processing and testing phase
- Making the Geosat movie – VIP presentation
- Going on twitter
- Improving Geosat software runtime – a lot
- Implementing version management
- Presenting our VLBI work at the IVS conference in Shanghai
- Abstract approved for the IDS-conference in October 2014
- Working with an info folder about GEOSAT
- Attended IGS-workshop in June

More activities

- The team has a saying in all the management issues of the project
- Team members opening profiles on LinkedIn
- Mapping Per Helge Andersen's scientific network and planning how to ensure that the project can maintain the most important relationships
- Developed simple communication plan/strategy
- Intensive Doris development ongoing
- GPS debugging/revision well in progress
- The work combining the techniques in progress
- Have attracted top management's interest - Created a knowledge key performance indicator to be followed by top management – in order to keep the true priority of the GEOSAT project
- Bugs fixed

Follow us on twitter!!

@kgeosat

The screenshot shows the Twitter profile page for @kgeosat. At the top, there is a navigation bar with icons for Home, Notifications (1), Discover, Profile, and a search bar labeled "Søk på Twitter". Below the navigation bar is a blue header area with the text "Dette er ditt område. Legg til et bilde!". The profile name "Kartverket" is displayed in a white box on the left, with a logo consisting of a green square above a blue wave. To the right of the name, statistics are shown: 12 TWEETS, 38 FØLGER, and 14 FØLGERE, with a "Mer" dropdown menu and a "Rediger profil" button. The bio reads: "Kartverket Geosat @kgeosat Geosat is a multi-technique geodetic software combining observations from VLBI, GNSS, SLR and DORIS at the observation level. For better climate monitoring!". Location is "Norway" and website is "kartverket.no". Two tweets are visible: one from 2. sep. about the NKG General Assembly in Gothenburg, and another from 2. sep. thanking Zuheir Altamimi for teaching CATREF.

Hjem Varsler 1 Oppdag Meg Søk på Twitter

Dette er ditt område. Legg til et bilde!

Kartverket

TWEETS 12 FØLGER 38 FØLGERE 14 Mer

Rediger profil

Kartverket Geosat
@kgeosat

Geosat is a multi-technique geodetic software combining observations from VLBI, GNSS, SLR and DORIS at the observation level. For better climate monitoring!

Norway
kartverket.no

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Tweets Tweets og svar

Kartverket Geosat @kgeosat · 2. sep.
Presently at NKG General Assembly in Gothenburg (lantmateriet.se/en/About-Lantm...). A lot of nice presentations so far..still two more days to go

Kartverket Geosat @kgeosat · 2. sep.
We are thanking Zuheir Altamimi for staying with us last week in Oslo teaching us CATREF - the programme estimating #ITRF2013



Geosat philosophy – descriptive paper

[P. H. Andersen, "Multilevel arc combination with stochastic parameters". *Journal of Geodesy* 01/2000; 74(7): 531 - 551].