



NORDISKA KOMMISSIONEN FÖR GEODESI

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Preliminary version 2007-06-29

The NKG Steering Committee on the on-going sub projects for "NORDIC POSITIONING SERVICE"

**Minutes of the 26th meeting
Gardemoen, June 26, 2007**

PRESENT

Denmark:	Casper Jepsen (temporary secretary) Lolita Bahl
Finland:	No representative
Norway:	Per Erik Opseth Line Langkaas
Sweden:	Bo Jonsson (chair)



ITEM 1: OPENING OF THE MEETING

Bo Jonsson welcomed everybody to the 26th meeting of the NKG Steering Committee on the on-going sub projects for “Nordic Positioning Service”. Casper Jepsen was appointed as temporary secretary for this meeting.

The Steering Committee agreed to the following agenda for the meeting

- 1 - Opening
- 2 - Nordnet – the computer network
- 3 - NorDPOS
- 4 - Exchange of data.
- 5 - Website
- 6 - Test with common ITRF in GPSNet.
- 7 - The DAB status in Sweden will be investigated
- 8 - Distributions channels in Germany
- 9 - Coordinates from GPSNet.fi
- 10 - Monitor stations
- 11 - The National GPS services
- 12 - The Automated Computations Service in Sweden
- 13 - Spidernet test in Denmark.
- 14 - Preparation for the next Directors General Meeting.
- 15 - Egnos
- 16 - Other Items
- 17 - Next meeting and closing

The minutes from the last meeting i Gävle was not approved, but will be discussed on the next meeting in Copenhagen

ITEM 2 - Nordnet - the computer network (all)

The network is up and running. Casper Jepsen will check up about payment for the old datalines. Line Langkaas will check with Frode about payment for the new datalines.

ITEM 3 - NorDPOS (Casper)

There have been problems with the DPOS SERVER running on KMS HP Unix server, Line will follow up on this problems and find a person who can make the program more stable. KMS and DR (Danmarks Radio) had a fruitfully meeting 4 weeks ago there they tested the line between KMS and DR and the DAB distribution. There are still some problems and they will be looked at during the summer. Casper thinks it is possible that we can test it later this year. It was discussed if RTCM 2.3 or 3.X should be sent out trough DAB.



Casper and Gro will meet after the holidays for a discussion of this.

ITEM 4. Exchange of data.

LMV has problems with delays in GPSNET. The problem is recognised by Trimble and may have connections with the big amount of satellite tracked in the Nordic area (GPS+GLONASS). SK uses Swedish data along the border – but its unclear if the exchange is done by DEC/DES or with NTRIP. LMV doesn't use SK data due the problem by gpsnet. Rune & Örjan will be in touch if necessary next week (DEC/DES and javad converter).

ITEM 5. Website

Casper showed the status online – and everybody was happy about the result so far. Tom Halvorsen (Statens Kartverk) and Casper Jepsen (KMS) meet on the 09 – 10 of July in KMS for a preliminary installation of the program on a Norwegian server.

ITEM 6. Test with common ITRF in GPSNet.

Gro will be asked if she has done a test with ITRF in GPSNet, otherwise she might be in contact with Anders Frisk.

ITEM 7. The DAB status in Sweden will be investigated.

Bo reported that the private provider of the FM- radio DGPS service (meter accuracy) stopped this activity on the 1/1 -07. Another service provider has been search for, but Teracom has not found any one. Therefore the service will continue with Teracom as serviceprovider. SWEPOS provides the DGPS corrections.

ITEM 8. Distributions channels in Germany.

Casper has search for some info about closing of FM-radio. Nobody will give an answer. The item 7+8 will in the future be one item called: Distribution channels.

ITEM 9. Coordinates from GPSNet.fi.

Bo has sent the coordinates of the GPSNet.fi to Casper last week. Casper will make a new map of all perm. GNSS stations in the Nordic countries. (Properly 2 maps - One with Svalbard etc. and one without.) Different colours on private or public owned stations.

ITEM 10. Monitor stations.

In LMV they are working in corporation with "vägverket" about a monitor of the E45 project. Per-Erik has seen that the new Trimble R5 has a module together with GPSNet for a monitor feature.

Lola tells about the new "norm for RTK-services" in dk. And the concerns about this and the needs for monitor stations.

The Monitor stations problems will be dicussed in the RTK group. (Gro, Peter and Casper)



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ITEM 11. The National GPS services

Norway.

22 new stations is setup this year. See the webpage for more information.

([http://www.satref.no/modules.php?name=Content&pa=list_pages_subcategories&scid=32;&title=CPOS Utbygging](http://www.satref.no/modules.php?name=Content&pa=list_pages_subcategories&scid=32;&title=CPOS%20Utbygging))

Leica has established some stations in the south western part of Norway, but SATREF has only lost a few customers sofar.

There has been problems with some Trimble receivers when using RTCM 3.0 combined with GSM and RTCM 2.3 combined with GPRS. In the near future both GSM and GPRS will provide both versions of the RTCM-formats. Some Topcon receivers have problems with the RTCM-format for GLONASS.

SATREF has bought 48 new Trimble receivers, 24 is delivered in 2007 and 24 will be delivered in 2008.

2 new employees have started in the last mounts. 1 new employee will start in a couple of month dealing with sales.

Rune will stop as the leader of the section on the 1st. of October and will start as "fagdirektør". SATREF will arrange a "SATREF bruker conference" on the 6-7 of December.

Denmark.

4 new Permanent stations (class A) will be build in 2007-2009.

The work about the "Norm for RTK services" was discussed.

KMS (REF) has got one new employee, primary for the Bernese calculations.

Sweden.

32 new stations will be established this year -> SWEPOS will have 155 stations in September. 791 connections are registered as users of SWEPOS. SWEPOS will arrange a a SWEPOS seminar on the 16 of October.

ITEM 12. The Automated Computations Service in Sweden

The work with installing Bernese 5.0 on a windows platform goes one, and a solution is nearby. A special version is made for the "vegvarket".

On the next meeting their might be a demo.

ITEM 13. Spidernet test in Denmark.

Due to many problems, it has not been possible to make a test of Spidernet in Denmark. Its still on the paper, but due to problem with resources its properly delayed to later this year or next year.

ITEM 14. Preparation for the next Directors General Meeting.



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It was discussed what this group should deliver to the report of the NKG president at the meeting of the Directors General of the Nordic Mapping Authorities in the end of August in Vsby.

We agreed upon 4 slides. 1 with the Purpose for this Task Force. 1 screen dump of the new website, and 2 maps showing the Permanent GNSS stations in the Nordic area.

Casper will make the slides and send them to Bosse , who forward them to Anders Olsson. (before August)

ITEM 15. EGNOS

Nothing new on EGNOS – but Norway is involved in some int. projects

1. CNES and SATREF project on monitoring Galileo.
2. Alenia Space and SATREF, new distribution channels for EGNOS
3. The new RIMS stations on Svalbard and Jan Meyen, have they made any improvement in EGNOS? Anna Jensen is making a project for Statens Kartverk on ionosphere models.

This Item will in the future be called “International Project”.

ITEM 16. Other items

Lola and Casper has attended the EUREF07-meeting in London and pointed out resolution #4 .

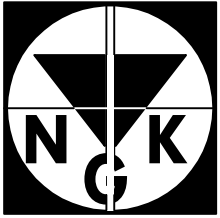
<p style="text-align: center;">Resolution no. 4</p> <p>The IAG Reference Frame Sub-commission for Europe (EUREF)</p> <p><i>recognising the success of the EUREF-IP Pilot Project</i></p> <p><i>and acknowledging the establishment of EPN guidelines for real-time data submission and also the inclusion of real-time data streams as a routine part of EPN operations</i></p> <p><i>recommends the transition of EUREF-IP from a pilot project to operational status</i></p> <p><i>and further recommends the support of such real time data by all EPN station managers.</i></p>
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DK and SE will properly full fill this. NO will take this up to discussion.

ITEM 17. Next meeting and closing

The next telephone meeting will take place 11 of October from 09:30 – 10:30. Per-Erik will book a phone meeting

The next meeting will take place in Denmark, Friday the 12 of October from 09:00 – 16:00, there will be a dinner on the 11 of October somewhere in Copenhagen. (Lola & Casper will invite)



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Bosse thanked Statens Kartverk for the arrangement of a good and fruitful meeting near Gardemoen and the participants for their fruitful contributions.