Proposals for resolutions at the 16th General Assembly of the NKG

Res no 1: Standardization on GNSS signals

The Nordic Geodetic Commission

recognizing the intense development in the GNSS satellite segment and the increased number of signals available to the user community

noting the need for standardization to make these signals usable for the users

noting the real time positioning services and its increasing importance for a wide range of sectors in modern society

recommends the members of NKG to be active in work towards international standardization regarding GNSS signals and its use

Res no 2: Support for geodetic fundamental stations

The Nordic Geodetic Commission

recognizing the importance of the geodetic fundamental stations for science, the global and regional reference frames, earth orientation, timing, and basis for the study of the system earth

noting that these products are vital for a wide range of applications in civil society, like satellite communication, navigation, satellite earth observations, and time transfer

noting the need for upgrading instrumentation at the stations within the NKG activity area, e.g. to comply to the up-coming requirements of the respective IAG services

noting the challenges to get funding for the needed renewals

recommends the National Authorities and geodetic institutions to continue the efforts to operate, maintain and modernize the stations Metsähovi, Ny-Ålesund, and Onsala.

Res no 3: Models of crustal deformations

The Nordic Geodetic Commission

recognizing the important role of intraplate deformations for reference frame definition and maintenance

noting the research ongoing at different Nordic institutions

noting the importance of glacial isostatic adjustment (GIA) to explain crustal deformations and as a tool for climate studies

recommends a close cooperation on exchange of methods, software and results for the goal of establishing a Nordic standard model for crustal deformations in the Fennoscandia and Baltic area

Res no 4: Observing Sea level

The Nordic Geodetic Commission

recognizing that the sea level is playing an increasing role in society

noting that climate change has created a need in society to follow the development in mean sea level increase very closely

noting the different estimations of the sea level rise for the coming decades

noting the great demand for this information among public authorities

recommends to initiate the development of methodology and standards to monitor and estimate the sea level change, using the combination of levelling, tide gauges and space techniques

Res no 5: The importance of the gravity field and improved geoid model

The Nordic Geodetic Commission

recognizing the importance of an accurate geoid model for society, science and for oceanographic studies

noting that the geoid as an equipotential surface is changing over time

noting the need from the GNSS user community of a precise geoid model for height determination in national height systems

noting the highly precise earth potential models becoming available from satellite gravity missions like Grace and GOCE

noting the need also for terrestrial gravity observations for geoid determination

recommends to investigate what needs to be in place (e.g. terrestrial gravity observations, terrain information, etc.) to meet the user needs of a geoid model at the 5 mm uncertainty level in the NKG activity area

res no 6: implementing the new way of work

The Nordic Geodetic Commission

recognizing the need for efficient use of resources

noting the benefit of increased project oriented activities within the Nordic cooperation

noting the need for reducing the carbon footprint of our activities

noting the availability of modern electronic conference facilities

recommends to strive for continuous improvements of our working procedures

res no 7: Outreach

The Nordic Geodetic Commission

recognizing that geodesy is an important part of a modern society and sciences about studies of the planet earth

noting that geodesy is unknown for the wider community

noting a general decrease in number of students in natural sciences

noting the need for qualified geodetic expertise in the future

recommends the geodetic community to improve its ability in outreach activities

Res no 8: NKG GNSS analysis centre

The Nordic Geodetic Commission

recognizing the large number of permanent stations for GNSS in the Nordic area,

noting the wide range of potential products beneficial for society that can be derived from these stations

noting the demand for near real time supervision of these stations

noting the interest for products from these stations in the international scientific community, e.g. EUREF, IAG dense velocity field, the COST action ES0701 "Improved constraints on models of glacial isostatic adjustment", and E-GVAP

recommends the presidium to facilitate the establishment of a distributed NKG GNSS analysis centre.