



# Tromsø Geophysical Observatory

Near Real-time Geomagnetic Data Provider  
for Space Weather Applications in the European Sector

TIEMS-conference, Oslo  
October 2012

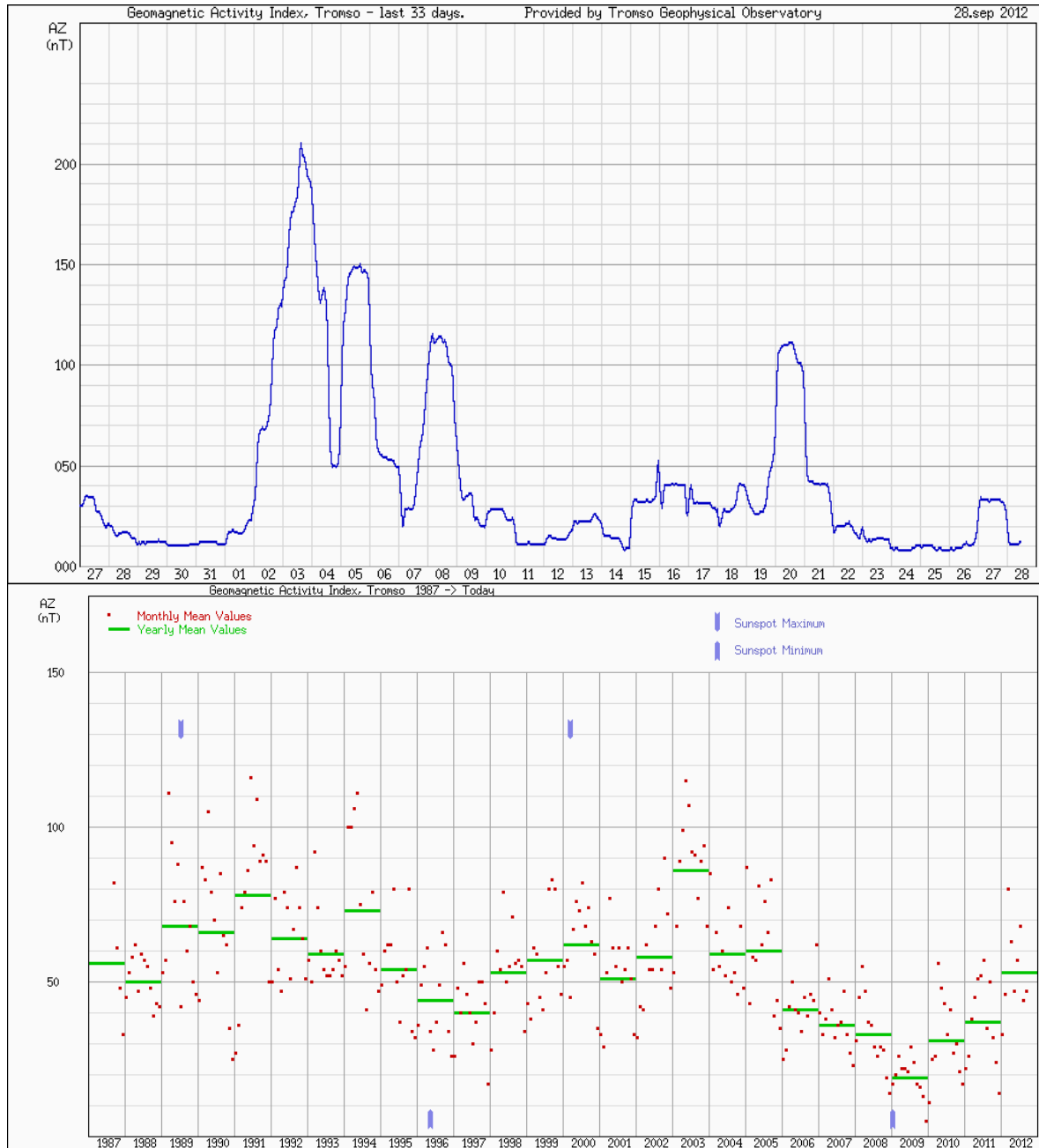
Magnar Gullikstad Johnsen



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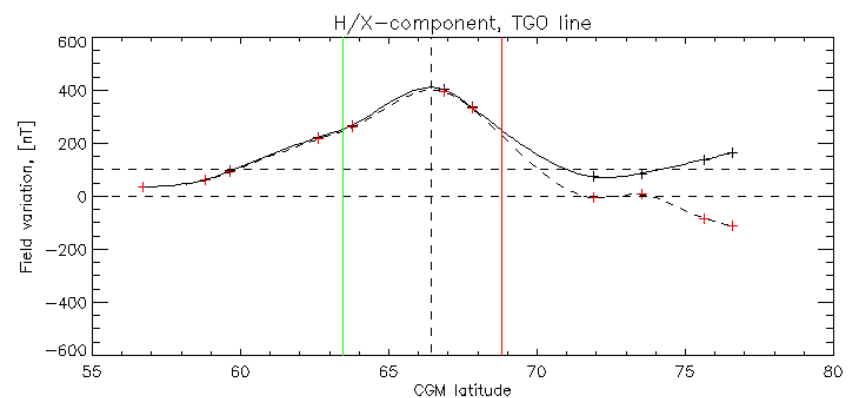
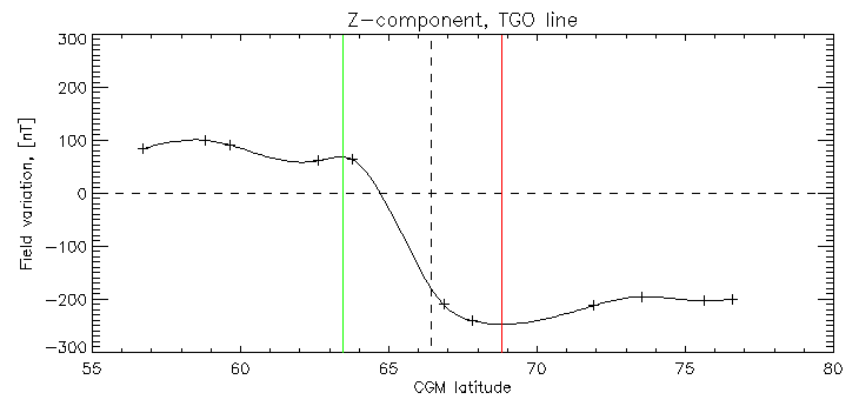
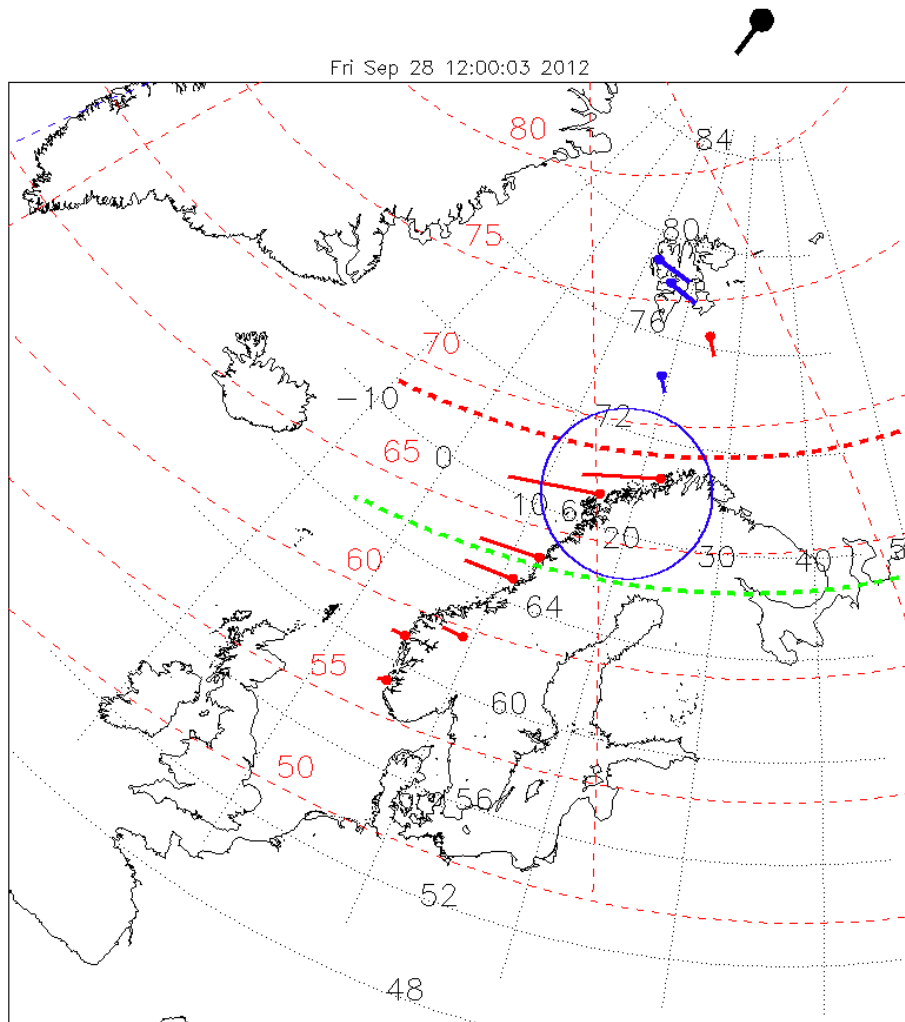
- Unit under the Faculty of Science and Technology, University of Tromsø
- Main Responsibility: Maintain observational time series (1928/32 – future) of the geomagnetic field in Norway (magnetometers) and electron density profile above Tromsø (ionosonde).
- Responsible for the Ramfjordmoen Research Station outside Tromsø (co-located with the EISCAT Incoherent Scatter Radar).
- TGO is participating in several European Union (EU) and European Space Agency (ESA) space weather related projects where both near real-time data and derived products are provided. In addition the petroleum industry is benefiting from our real-time data services for directional drilling.

# Geomagnetic Activity Index



# Electrojet Tracker

- <http://fox.phys.uit.no/AFFECTS/>



Data time stamp: 02/07/2012 15:00:00

# Acknowledgements

- Daniel R. Weimer is thanked for developing the Weimer 2005 empirical model and making it available. This study received the Weimer 2005 model from the CEDAR Database at the National Center for Atmospheric Research, which is supported by the National Science Foundation of the United States of America.
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