
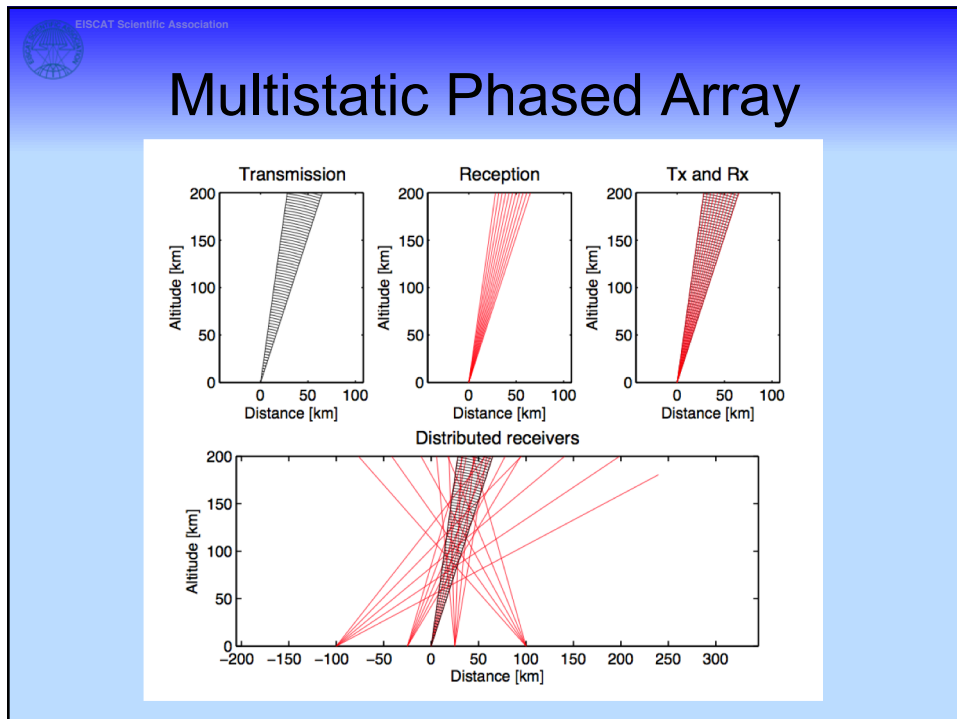
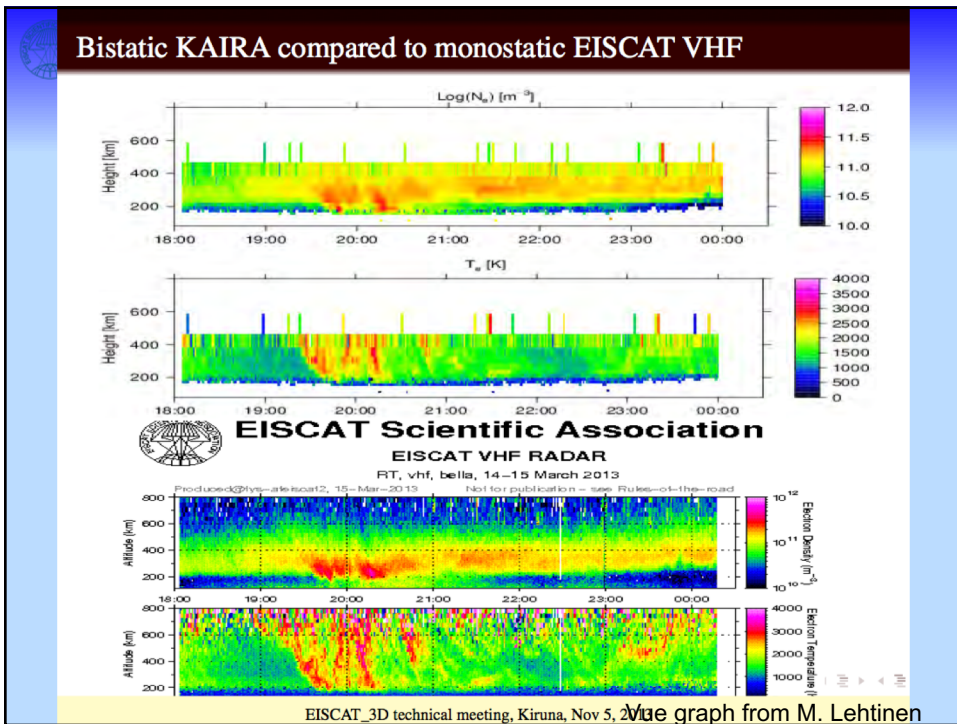
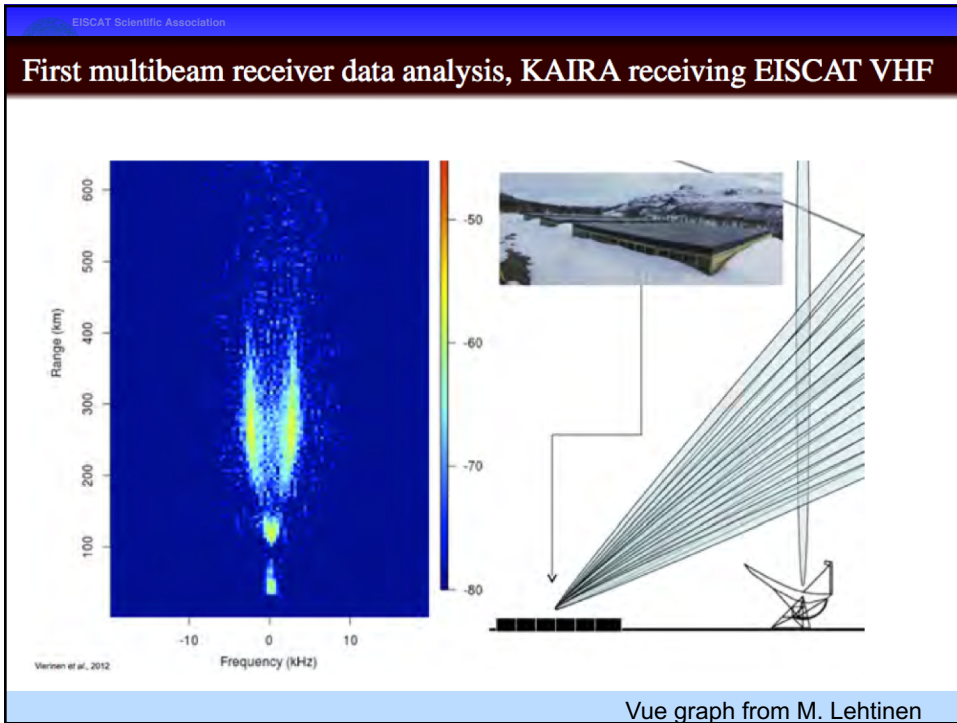


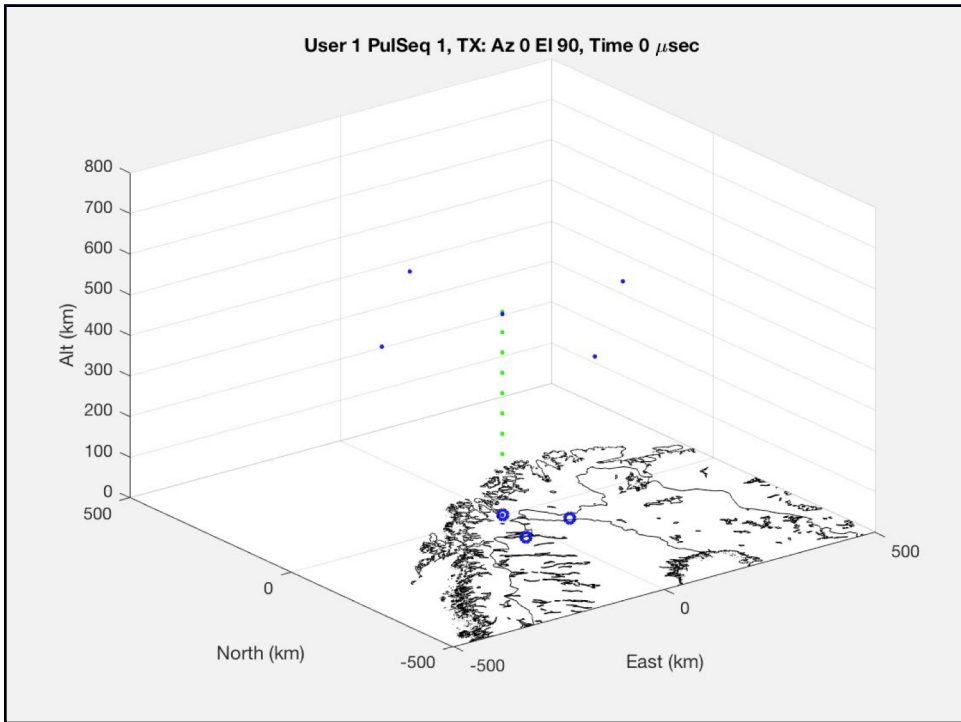
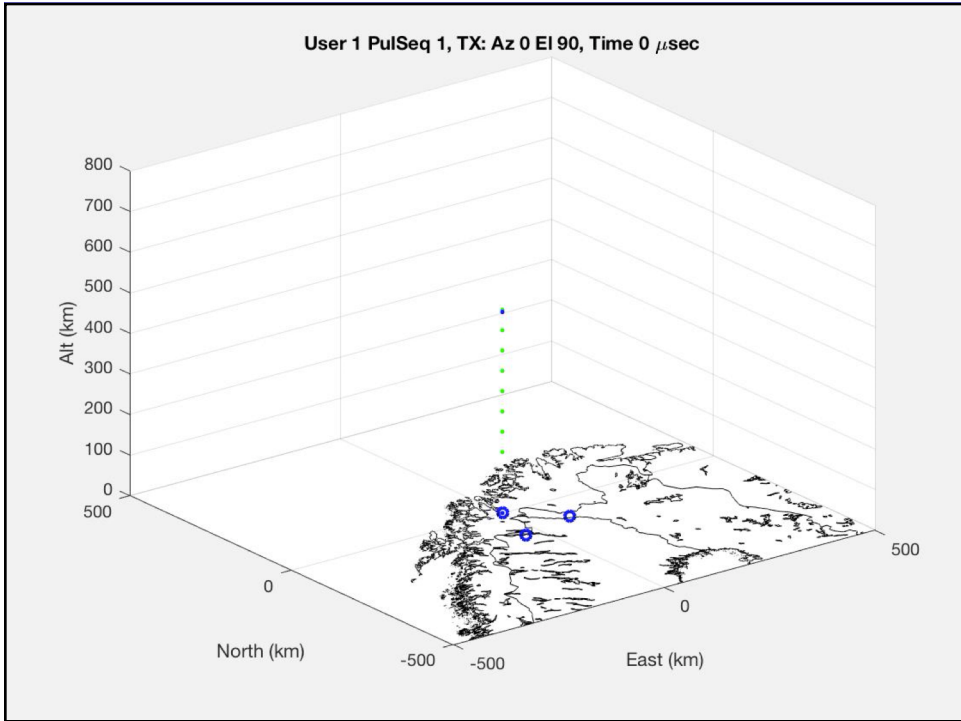
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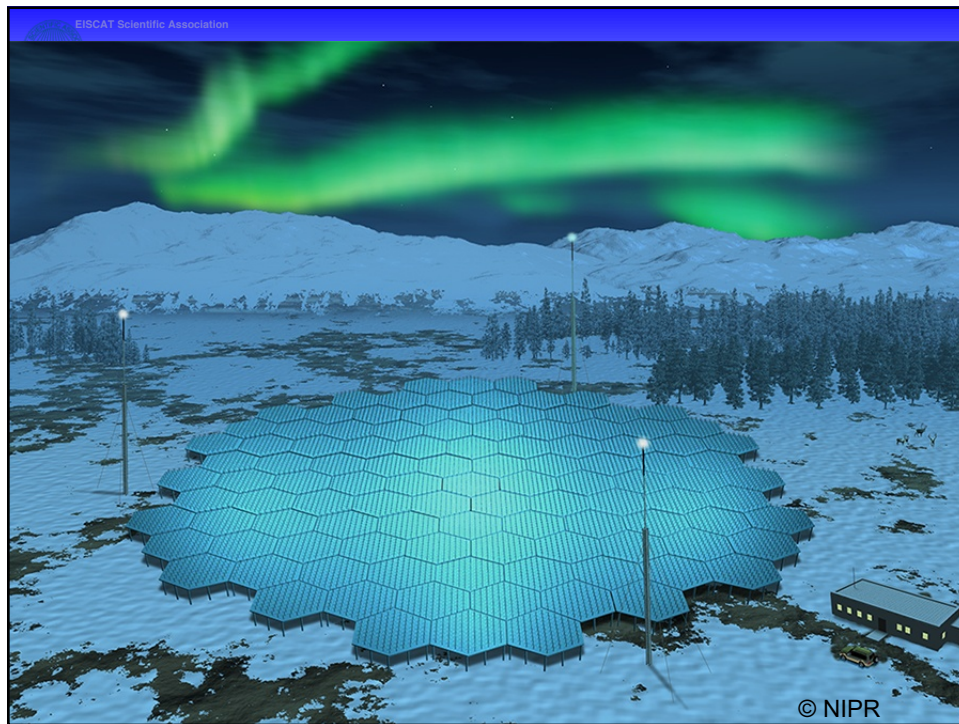
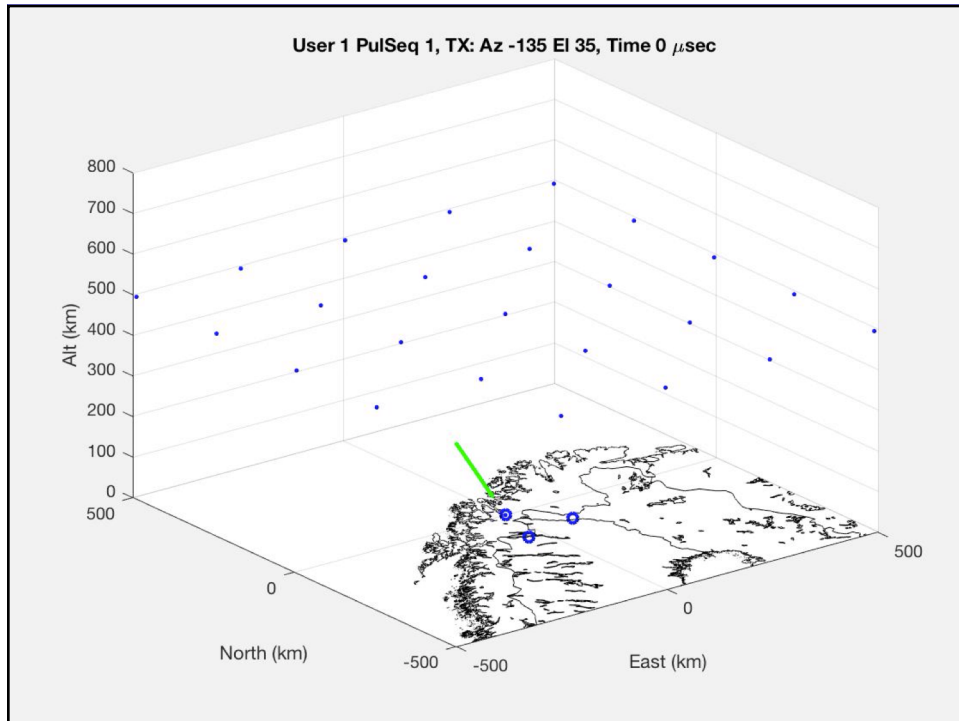
EISCAT_3D

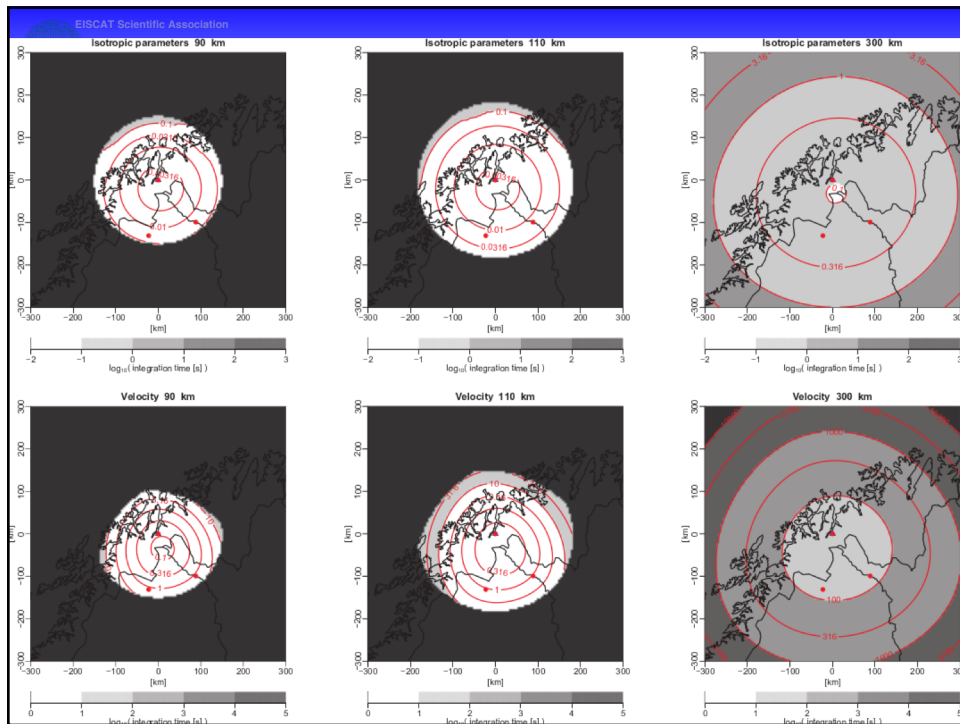
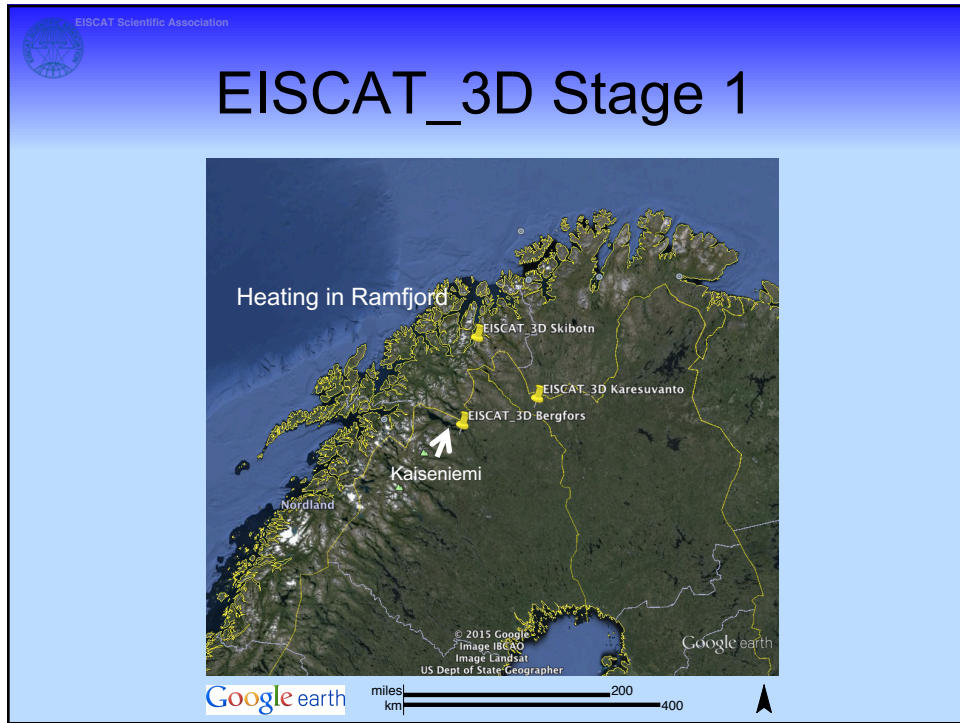
- Phased array technologies for rapid beam steering (volumetric imaging)
- Multiple sites for vector measurements of the ionospheric plasma
- Sufficient sensitivity for sub-second measurements of auroral phenomena
- Interferometric capabilities for 100-m spatial scale measurements
- Design Study 2005-2009
 - 5 partners, 30 man years
 - EISCAT, University of Tromsø, Luleå University of Technology, Rutherford Appleton Laboratory, Swedish Institute of Space Physics
 - Total budgeted volume 2.8 MEUR
 - EU FP6 support 2 MEUR
- Preparatory Phase 2010-2014

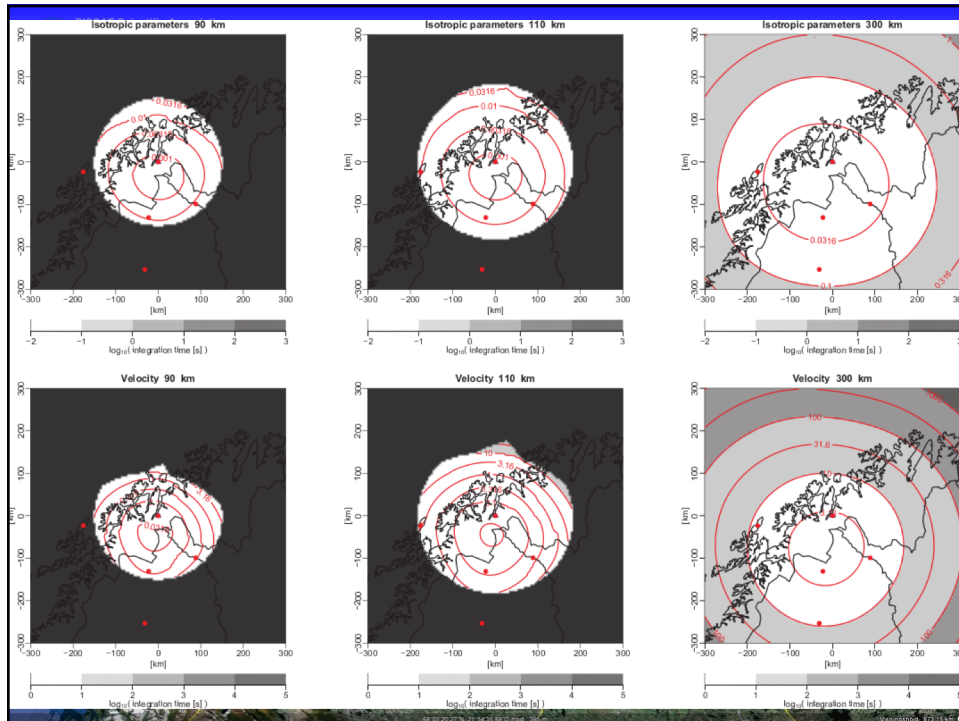













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EISCAT_3D Science

- An extremely versatile and largely software-defined instrument
- Specific science plans are developed within national user communities
- Easy expansion to new fields
- Easy inclusion of new nations

EISCAT_3D Science Case

Anita Aikio¹, Ian McCre²,
and the EISCAT_3D Science Working Groups

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²STFC Rutherford Appleton Laboratory, United Kingdom

EISCAT_3D Preparatory Phase Project WP3

Version 3.0, July 2014

https://www.eiscat3d.se/sites/default/files/EISCAT3D_ScienceCase_final.pdf



