



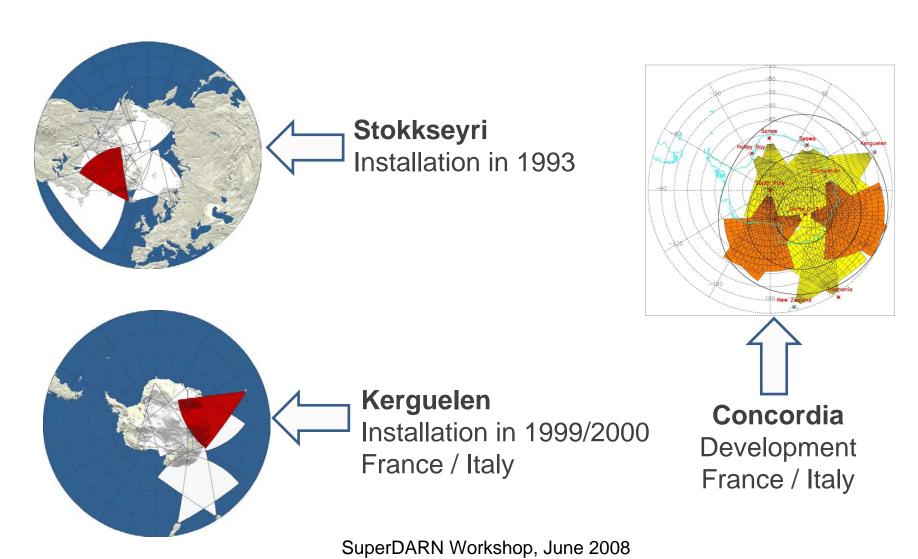
Status of the French SuperDARN radars

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SuperDARN Workshop, June 2008

Radars with french involvement



French radars status

Situation after the illness and death of Jean-Paul Villain:

- Necessity of reorganization
- Review of SD by funding agencies (size of scientific community, scientific output, level of funding compared to available resources)
- Decision to adapt involvement to capabilities:
 - + limited scientific and technical manpower
 - + lack of sufficient support within STP community
 - + limited funding
- General situation of STP science in France

Status of Kerguelen radar

- +Operations with help of IPEV
- + Last maintenance during southern summer 2006/2007
- + Problems:
 - only 12 (over 16) operating TX, no spares
 - outdated computers / software (before 2004, unable to run THEMIS programs)
 - all baluns in bad condition, should be replaced





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Status of Stokkseyri radar

- + Contract with University of Reykjavik for operation
- + Last maintenance in 2004
- + Outdated computers / software
- + Important ongoing deterioration of antenna array due in particular to proximity of sea
- + Impact on data quality





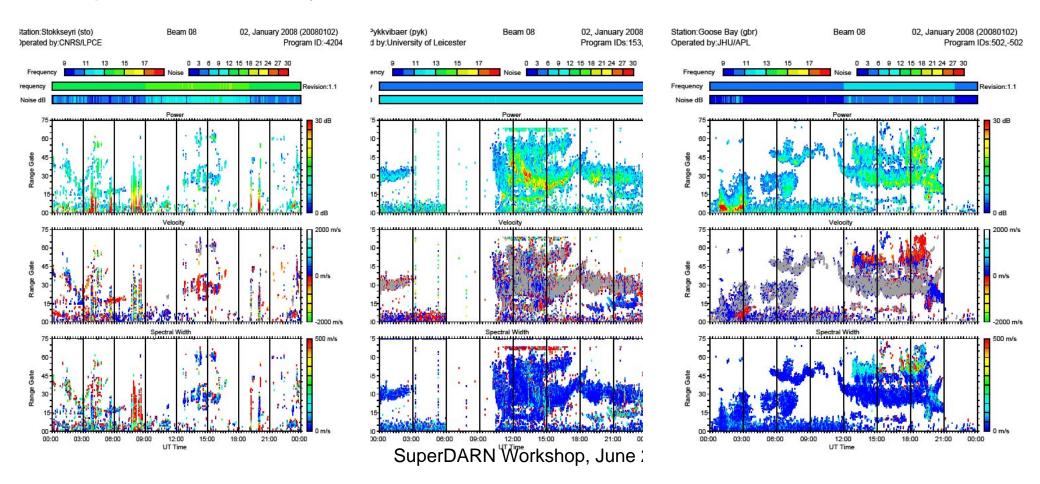






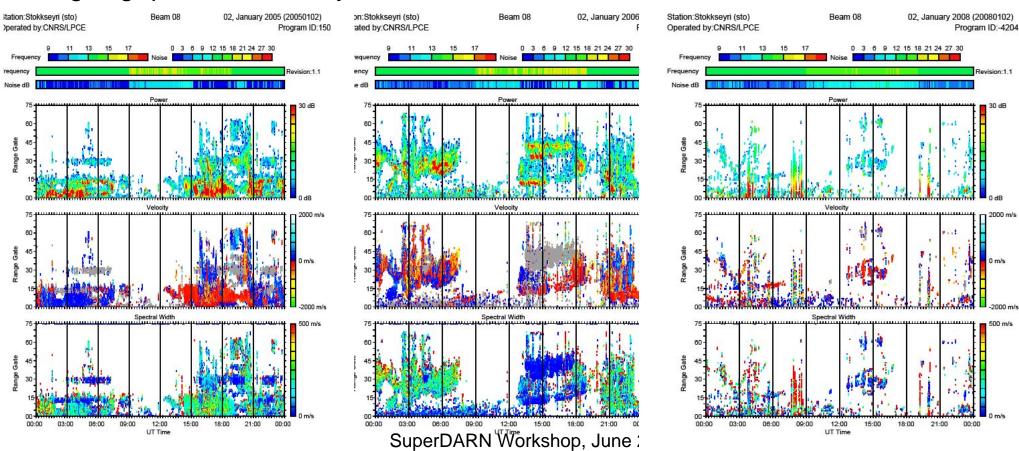
Status of Stokkseyri radar

Comparison for January 2, 2008



Status of Stokkseyri radar

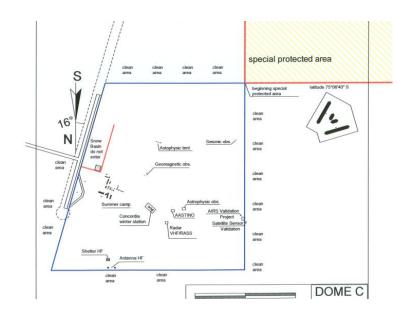
Comparison 2005 – 2008 Ongoing quantitative study



Concordia radars







- + Funding of equipment as agreed with IFSI (50/50)
- + Manpower ~ 15 man x months
- + Preparatory field trip in 2005/06
- + Shipment of equipment from LPCE in 12/2007
- + Planned participation of engineers to mechanical installation

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French radars status: decisions

- + New organization:
 - Aurélie Marchaudon Pl
 - P.L. Blelly Co-PI
 - Expertise of J.C. Cerisier and C. Hanuise
 - Technical support: P. Fergeau, A. Péan, X. Vallières



+ Decisions

- **Focus on Kerguelen radar** (upgrade, latest standards ...) with maintenance during southern summer 2009/2010.
- Responsibility of Concordia radar transfered to IFSI
- Operation of Stokkseyri radar until the end of 2009 in present state. Transfer of radar to other group(s) only possibility for continuing operations from 2010. Detailed audit of radar state in fall 2008.