Magnetic Observatories

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Deadhorse Magnetic Observatory
2012 USGS Mendenhall Post-Doctoral Fellowship Opportunity:

Conduct research on rapid magnetic-field variations that represent hazards to electric power grids and pipelines.

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Summary

Recent accomplishments:
• Deadhorse observatory (still testing data).
• International collaboration at Tristan da Cunha (South Atlantic).
• **Real-time 1-min data!** ([geomagdata@usgs.gov](mailto:geomagdata@usgs.gov)).

October goals:
• 1-second data (details TBD).
• Real-time *Dst*.

Works in progress:
• Facilities improvement at Barrow, Fresno, Guam.
• International collaboration at Apia (Samoa).

Continuing post-doctoral opportunities.
• Promote modern standards at observatories around the world.
• 1-minute data.
• Raw data reported within 72 hours of acquisition.
• Processed data produced annually.

• Soon to disseminate 1-second data.
• Real-timeliness is promoted, but need to contact individual programs.
• Quasi-definitive data produced within months of acquisition.

• Obtain data from www.intermagnet.org
104 Observatories supported by 52 Institutes from 39 Countries

- Algeria Centre de Recherche en Astronomie, Astrophysique et Geophysique
- Argentina Universidad Nacional de la Plata
- Australia Geoscience Australia
- Belgium Royal Meteorological Institute of Belgium
- Brazil Observatorio Nacional
- Bulgaria Bulgarian Academy of Sciences
- Canada Geological Survey of Canada
- China Institute of Geology and Geophysics, Chinese Academy of Sciences
- China Seismological Bureau of Guangdong Province
- China Lanzhou Institute of Seismology, China Earthquake Administration
- Czech Republic Academy of Sciences of the Czech Republic
- Denmark Danish Meteorological Institute
- Ethiopia Geophysical Observatory of Addis Ababa University
- Finland Finnish Meteorological Institute
- Finland Sodankyla Geophysical Observatory, University of Oulu
- France Institut de Physique du Globe de Paris
- France Institut de Recherche pour le Developpement
- France Ecole et Observatoire des Sciences de la Terre
- Germany GeoForschungsZentrum Potsdam
- Germany Ludwig Maximilians University Munich
- Germany Universities of Karlsruhe and Stuttgart
- Hungary Geodetic and Geophysical Research Institute, Hungarian Academy of Sciences
- Hungary Eotvos Lorand Geophysical Institute
- India Indian Institute of Geomagnetism
- Ireland The Irish Meteorological Service
- Italy Istituto Nazionale di Geofisica e Vulcanologia
- Japan Japan Meteorological Agency
- Kazakhstan Institute of Ionosphere
- Lebanon National Centre for Geophysical Research
- Madagascar Institut et Observatoire Geophysique d'Antananarivo
- Mexico Instituto de Geofisica - Universidad Nacional Autonoma de Mexico
- New Zealand Institute of Geological and Nuclear Sciences Limited
- Peru Instituto Geofisico del Peru
- Poland Institute of Geophysics, Polish Academy of Sciences
- Romania Geological Survey of Romania
- Russia Altay-Sayan Branch of Geophysical Survey, Siberian Branch of the Russian Academy of Sciences
- Russia Borok Geophysical Observatory, Institute of Physics of the Earth of the Russian Academy of Sciences
- Russia Institute of Solar-Terrestrial Physics, Siberian Branch of the Russian Academy of Sciences
- Serbia Geophysical Institute of Grocka
- Slovakia Geophysical Institute of Slovak Academy of Sciences
- South Africa Hermanus Magnetic Observatory - National Research Foundation
- Spain Real Instituto y Observatorio de la Armada
- Spain Instituto Geografico Nacional
- Spain Observatori de l'Ebre - Instituto Geografico Nacional
- Sweden Geological Survey of Sweden
- Turkey Earthquake Research Institute
- Ukraine National Antarctic Scientific Center of Ukraine
- Ukraine Institute of Geophysics, National Academy of Sciences of Ukraine
- United Kingdom British Geological Survey
- United States United States Geological Survey
- Vietnam Institute of Geophysics
- Vietnam Vietnamese Academy of Science and Technology
- Western Somoa Department of Agriculture, Forestry, Fisheries and Meteorology