



HF Radar Operation & Application Tutorial

(inside Oceans '13 MTS/IEEE conference)

Nansen Environmental and Remote Sensing Center

Bergen, Norway

10 June 2013, 13:00 - 17:00 hrs.

An exciting 4-hour tutorial on HF-Radar Operation and Application in the context of operational oceanography will take place Monday 10 June 2013 at the Nansen Environmental and Remote Sensing Center in Bergen, Norway.

Speakers include Dr. Hugh Roarty, Dr. Josh Kohut, Dr. Scott Glenn of Rutgers University and Mr. Chad Whelan of CODAR Ocean Sensors.

The tutorial will provide an introduction to the principles and current state of the art technology for high-frequency radar (HF radar) applications. The course will touch upon the following topics:

- ***What is an HF Radar?*** Principles of operation, data products & state-of-the-art.
- ***Operating an HF Radar Network:*** What does a network look like and what does it take to manage? How does one process, analyze and visualize the surface current data? How are the products quality controlled?
- ***Applications & Case Studies:*** How are HF data products currently used in operational oceanography? Case Studies will be shown for recent events including search and rescue operations, the Deepwater Horizon oil spill response and Hurricanes Irene and Sandy.

Specific Content for the HF Radar Course

- Principles of operation & data products (0.5 hours)
- State-of-the-Art in HF radar technology (0.5 hours)
- Data visualization & QA/QC (0.5 hours)
- Introduction to US National and Global HF Radar Networks (0.5 hours)
- Search and rescue applications (0.5 hours)
- Pollution floatables tracking (0.5 hours)
- Deepwater Horizon, model validation (0.5 hours)
- Storm forecasting (0.5 hours)

This tutorial is part of the Oceans '13 MTS/IEEE Bergen conference. Participation is limited to 80 persons, so sign up early. Registration information and link to online form is available at <http://www.oceans13mtsieeebergen.org/main.cfm/CID/17/Conference-Registration/>