Arctic ROOS

Arctic Regional Ocean Observing System

Annual meeting

22-23 Nov 2016

By

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Main activities in 2015-2016

- Launched Arctic Marine Forecasting Center under CMEMS, 01 May 2015 – continued in 2016 (NERSC, Met.no, IMR)
- ESA CCI sea ice project: operational production of climate data sets for ice concentration, ice thickness
- Delivery of NRT in situ data (cooperation with EMODNet and CMEMS)
- New members of Arctic ROOS: UNIS and MRI have signed the MoU
- Proposal to H2020 BG09: Integrated Arctic Observing System (submitted Feb 2016), accepted
- Proposal on Copernicus Climate Change Services (C3S) to ECMWF on sea ice climate products: SIPCA, accepted

INTAROS

INTAROS: Integrated Arctic Observing System (BG09-H2020)

- submitted 17 February,
- 49 partners from 20 countries
- contract negotiations from 23 June – 13 Sept,
- contract signed in November,
- start date 01 December 2016
- KO-meeting 11-12 January 2017
- 12 Arctic ROOS members + EuroGOOS

Parallel proposals under the same call were also funded : APPLICATE and BLUE ACTION

SIPCA project

- New project under **Sea Ice Products for Climate Applications** (**SIPCA**) (ECMWF call: C3S ITT 312_a, Lot 1)
- Two main variables: **Sea Ice Concentration** (incl. derived ice edge and MY-FY types) and **Sea Ice Thickness**
- **SIPCA** is coordinated by DMI (with MET Norway, AWI, and NERSC as partners)

Networking activities in 2016

- Meetings and workshops: EuroGOOS office + Arctic ROOS: Session at Arctic Circle, 7 – 9 October
- Arctic Observing Summit, 15-18 March, Fairbanks. Statement from GEOCRI – GEO Cold Region Initiative
- Strengthen collaboration with Japan on Arctic research, focus on satellite data, sea ice monitoring and modelling, support to Arctic shipping (Workshop at Arctic Frontier, 27 Jan + Arctic conference in Tokyo, 2 – 4 June)
- ESA Living Planet Symposium, Prague, 9-13 May - > many new results regarding satellite observatons of the Arctic - > (Sentinels ++)
- Contribution to Arctic Science Ministerial, Washington 28 Sept.

Arctic Science Ministerial 28 Sept 2016

- Science Ministers, or their representatives, from 25 governments—Canada, the People's Republic of China, the Kingdom of Denmark, the Faroe Islands, Finland, France, Germany, Greenland, Iceland, India, Italy, Japan, the Republic of Korea, the Netherlands, New Zealand, Norway, Poland, the Russian Federation, Singapore, Spain, Sweden, Switzerland, the United Kingdom, and the United States of America—and the European Union and representatives from Arctic Indigenous peoples' organizations gathered to discuss collective efforts to increase the pace of international scientific collaboration in the Arctic.

Arctic Science Ministerial statement

Statement from EU:

- The **European Union** will initiate a new 5-year project (2016-2021) coordinated by Norway to develop an Integrated Arctic Observing System (INTAROS). The project, with a €15.5 million budget, will involve scientists in 14 European countries (Belgium, Denmark, Finland, France, Germany, Greenland, Ireland, Italy, Norway, Poland, Portugal, Spain, Sweden, and the United Kingdom), as well as in a number of countries elsewhere in the world (Canada, the Peoples' Republic of China, the Russian Federation, and the United States, with other countries expected to join).

Similar statements about APPLICATE and BLUE ACTION

Plans for 2017

- Start implementation of INTAROS, BLUE ACTION, APPLICATE
- Start implementation of SIPCA: Copernicus Climate Change Services for sea ice
- Efforts to initiate more collaboration across Arctic with institutions in China, Japan, South Korea, Russia, USA and Canada (through INTAROS)
- Develop links and collaboration with other Arctic data providers and data centres
- Extend collaboration with users and stakeholders
- Website development, include more data dissemination