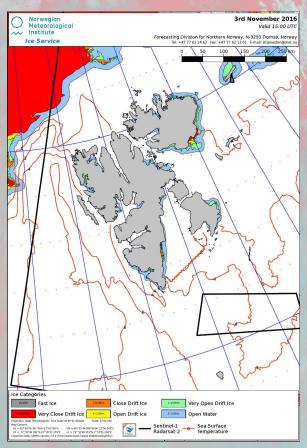
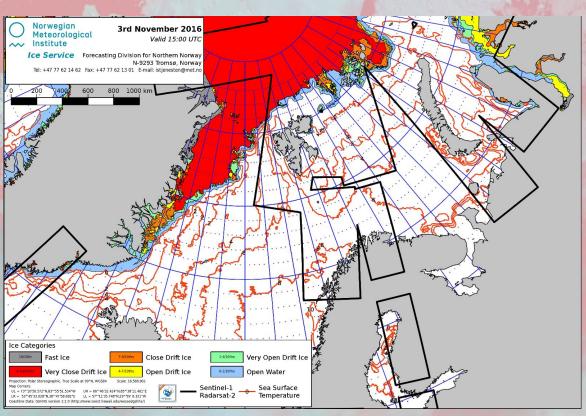


Nick Hughes, Leader of the Norwegian Ice Service

Operations - Arctic ice charts

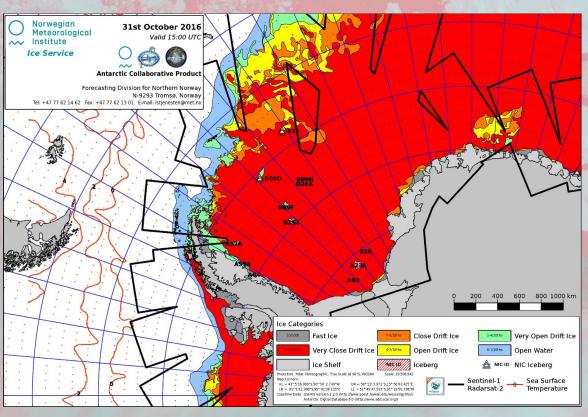
Weekdays



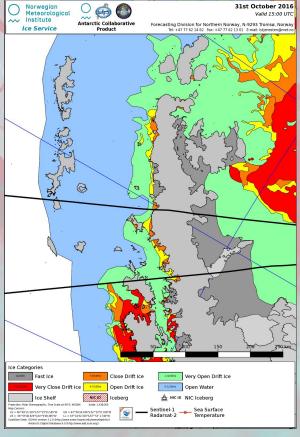




Operations - Antarctic ice charts



Mondays, October to April





European Ice Services

- Rebooted in 2016
- Mini analysts workwhop in conjunction with BSIM in September 2016
- A number of collaborative activities are planned, as resources and availability of personnel permit.



Personnel

MetKlim VNN Istjenesten



Nick Hughes Head of Ice Service

Ice analysis training



Penelope Wagner Researcher, SPICES project



Trond Robertsen Senior Analyst



Signe Alvarstein Senior Analyst



Håvard Larsen Analyst, Antarctica



Odd-Ivar Olsen Analyst

Software Development - Bifrost



- National ice services have developed ice charting tools independently
- Bifrost is our free, open source attend to provide a common standard that could become a community project
- Important for capacity building in the Southern Hemisphere
 - Argentina, Chile, South Africa, Australia and New Zealand for Antarctic



Research Projects

- EU (Active)
 - FP7 SIDARUS 2011-13
 - FP7 ACCESS 2011-15
 - FP7 ICEMAR 2011-13
 - FP7 ICE-ARC 2014-17
 - H2020 SPICES 2015-18





- Norwegian
 - o CIRFA 2015-23



INTEGRATED REMOTE SENSING
AND FORECASTING FOR ARCTIC OPERATIONS

Romsenter

- PRODEX Thinlce 2011-14
- Early Warning 2014
- Sentinel4Thinlce 2015

Polar Institute ICE

- N-ICE 2014-present
- ICE-Whales 2015-17

N-ICE 2015

