



EuroGOOS

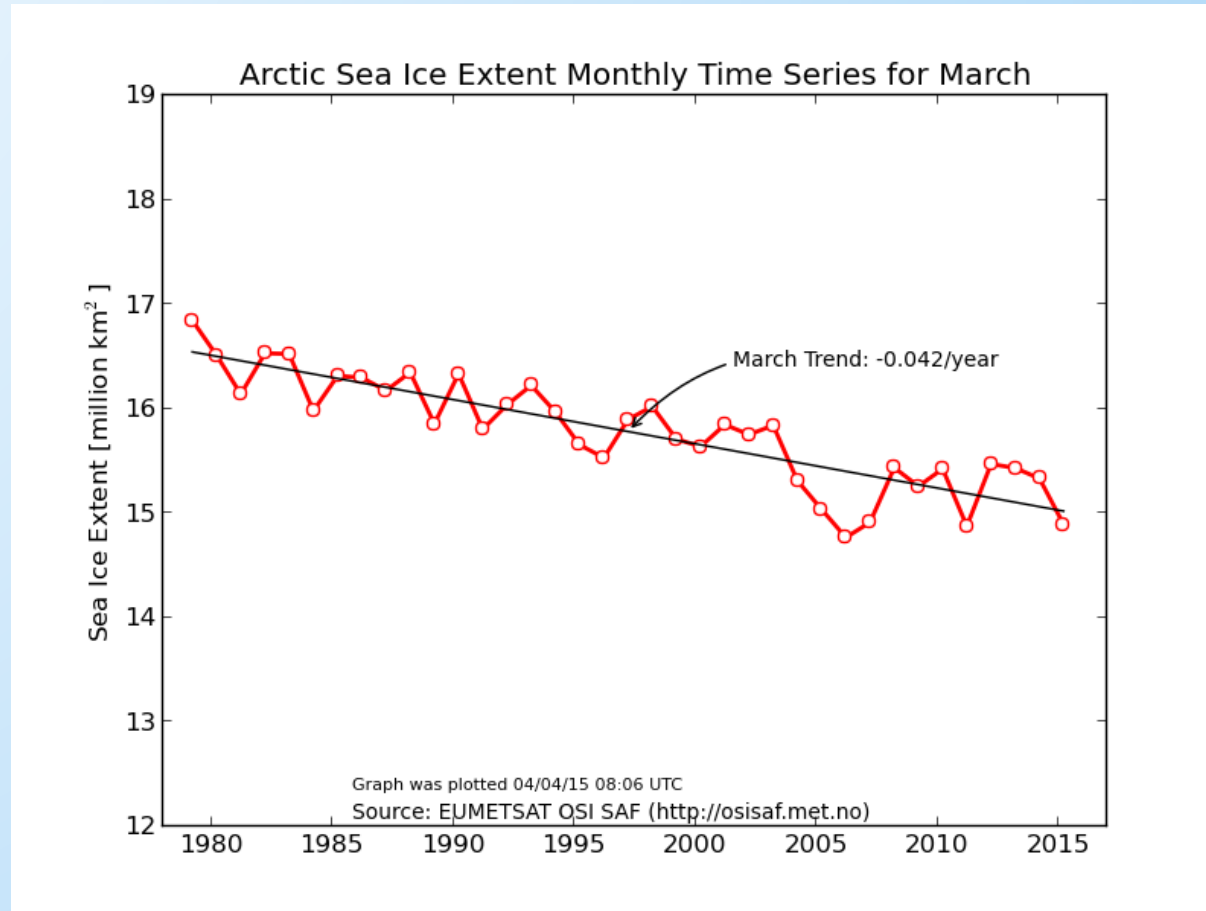
European Global Ocean
Observing System

ARCTIC OPERATIONAL OCEANOGRAPHY

Erik Buch
EuroGOOS chair



Arctic Sea Ice Extent

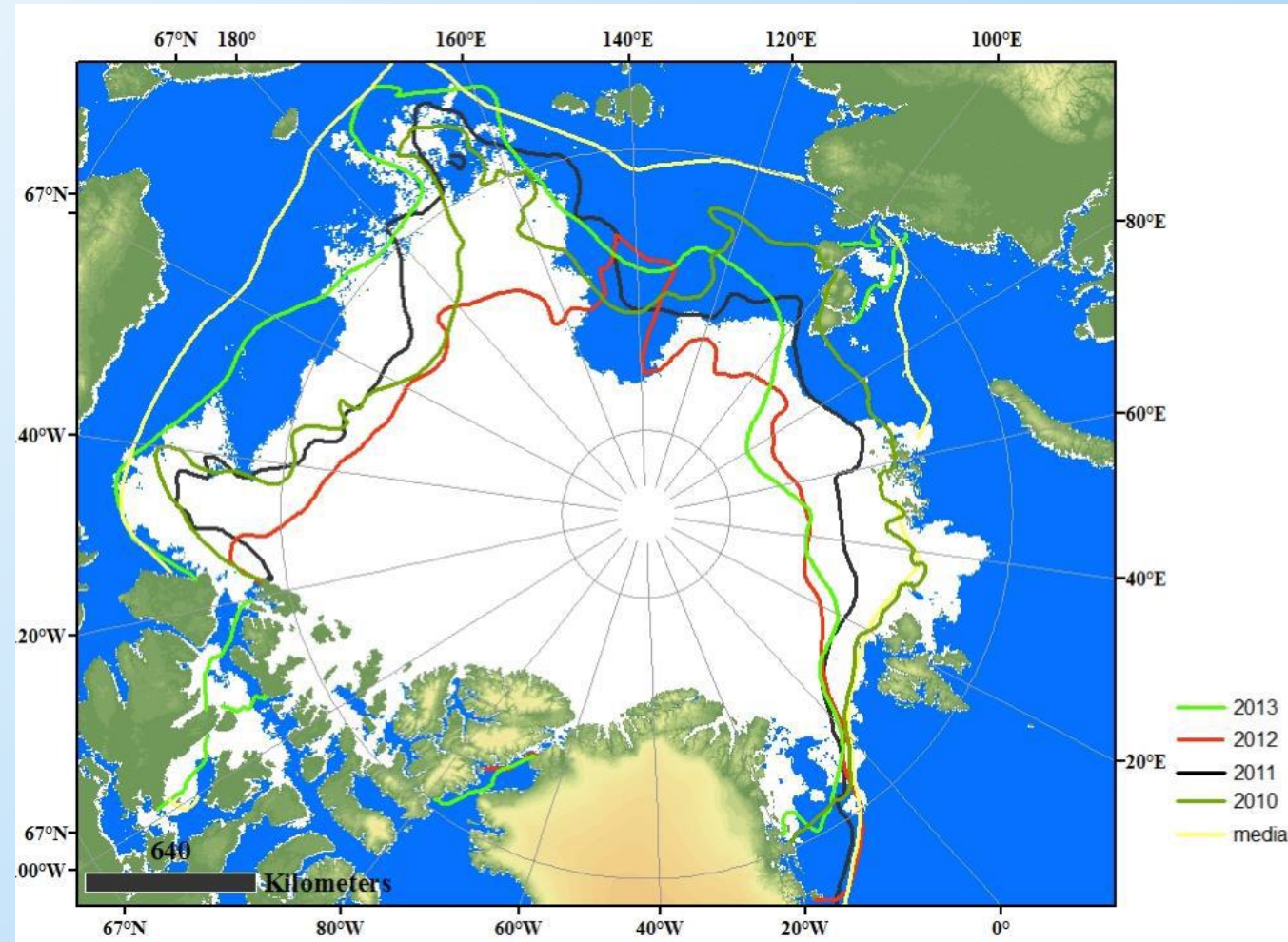




EuroGOOS

European Global Ocean
Observing System

Arctic Sea Ice horizontal distribution





EuroGOOS

European Global Ocean
Observing System

Maritime activities



09-02-2016

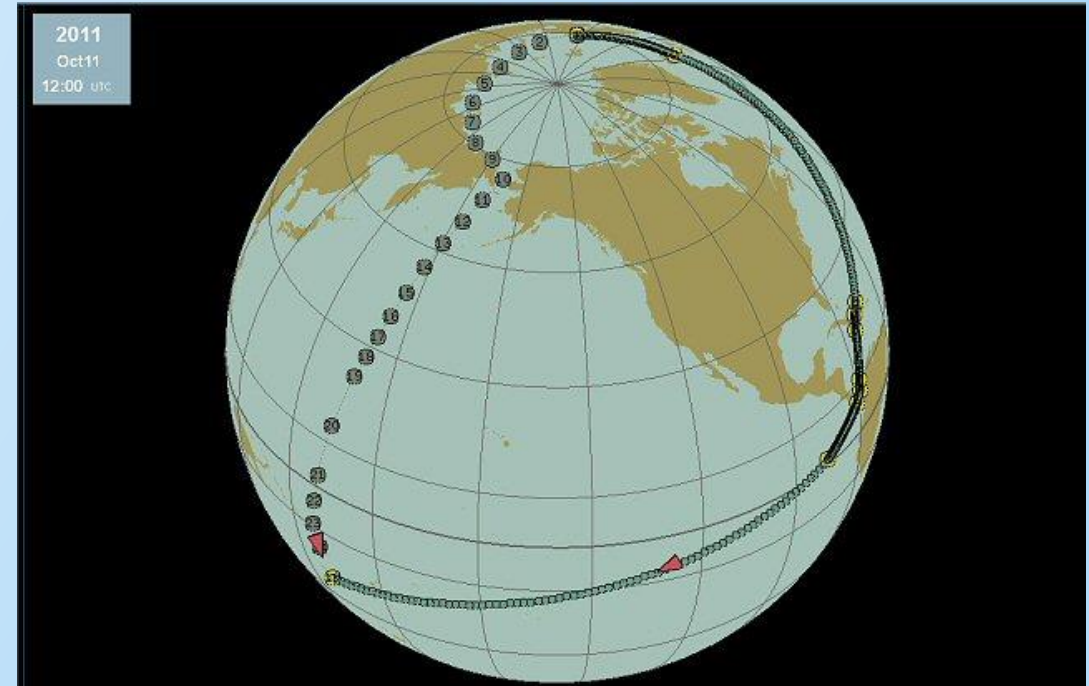
EuroGOOS AISBL eurogoos@eurogoos.eu - <http://www.eurogoos.eu>



EuroGOOS

European Global Ocean
Observing System

Northern Sea Routes



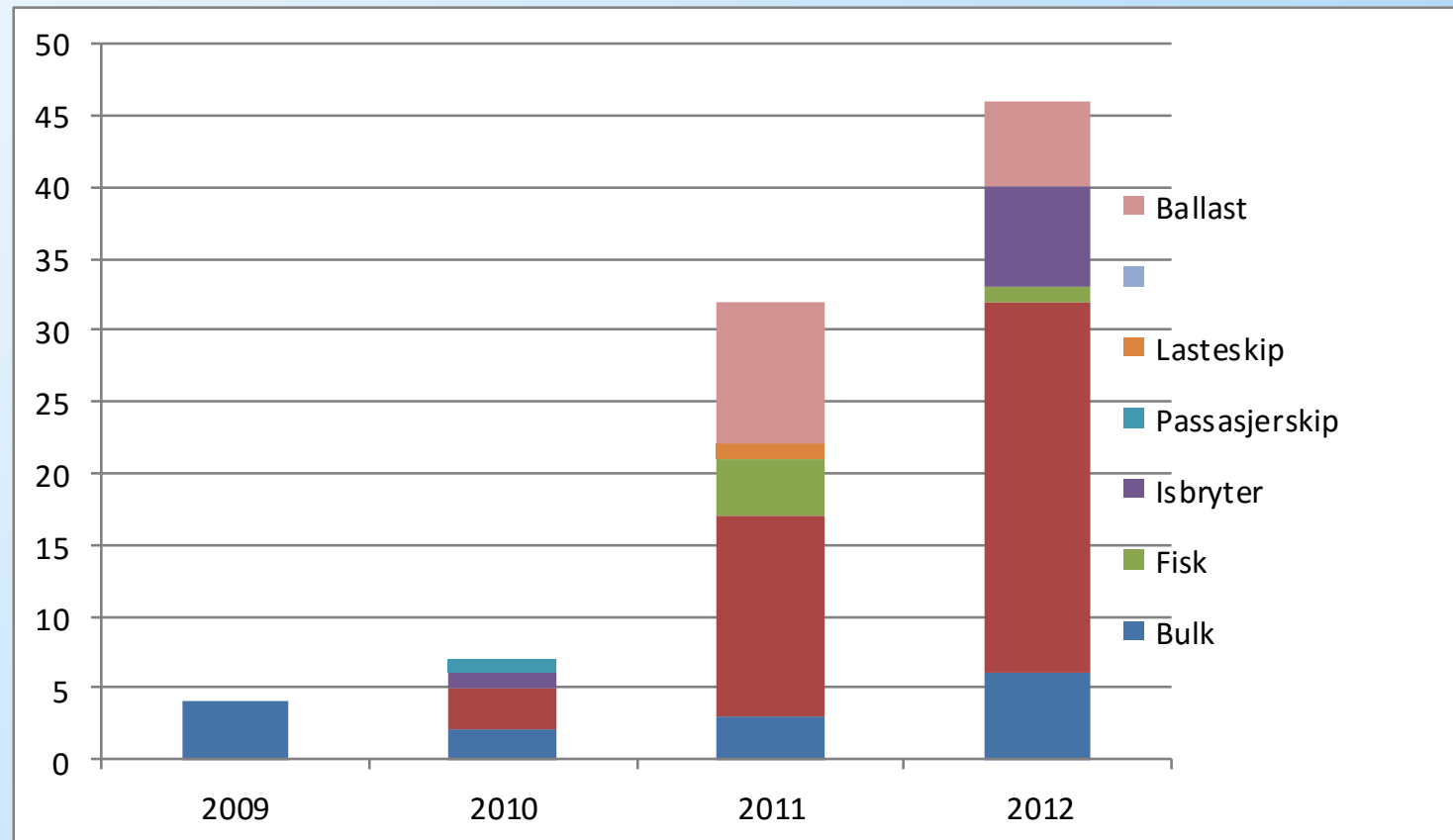
'Polarcus Alima' saved 2600 nm = 9 days



EuroGOOS

European Global Ocean
Observing System

Number of ships in the Northern Sea Route



Sailings through NSR 2009-2012 (numbers and ship type/cargo)
source: www.arctis.com / 2012, Rosatomflot



EuroGOOS

European Global Ocean
Observing System

National areas of responsibilities for search and rescue in the Arctic.

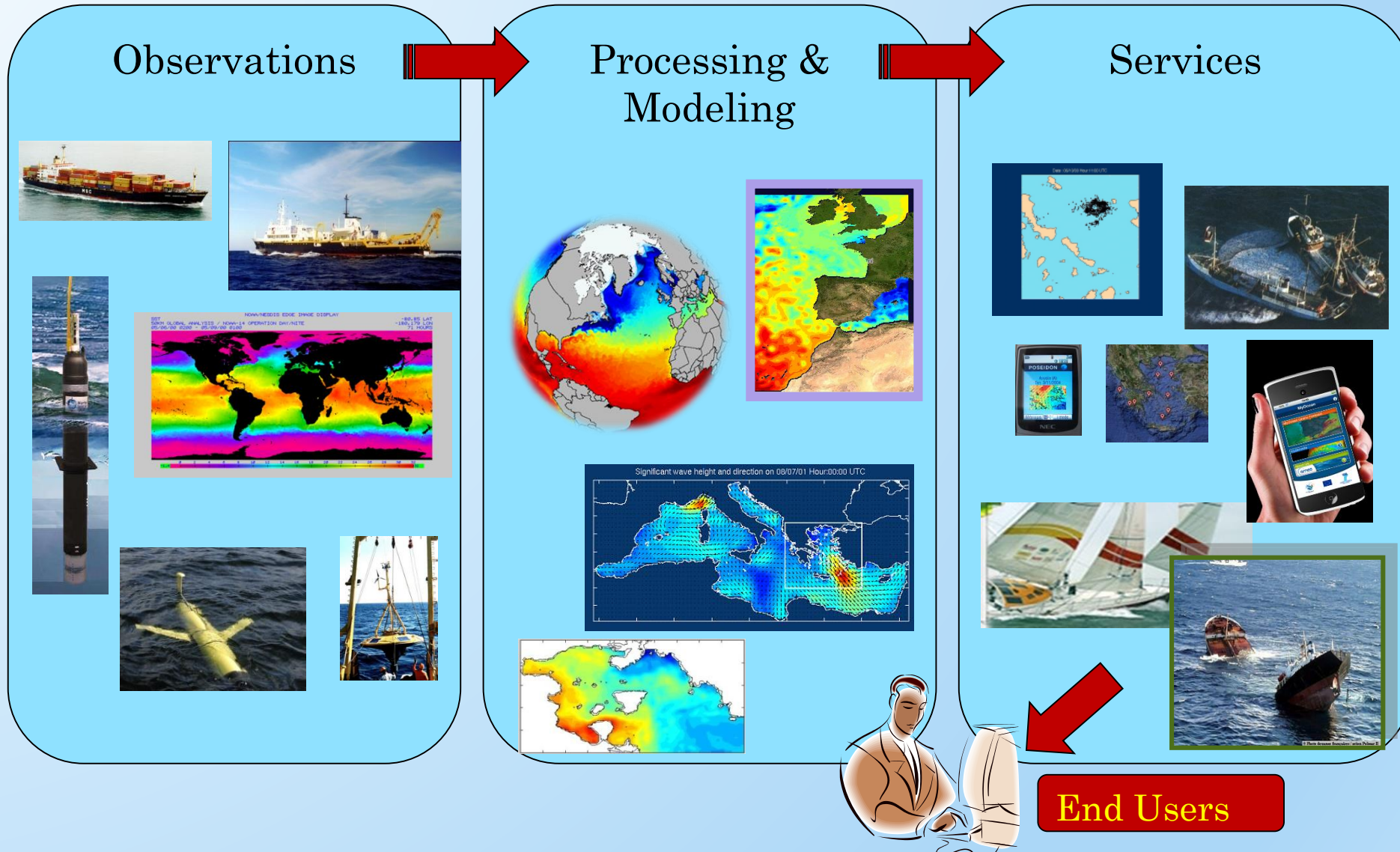




EuroGOOS

European Global Ocean
Observing System

Operational Oceanography



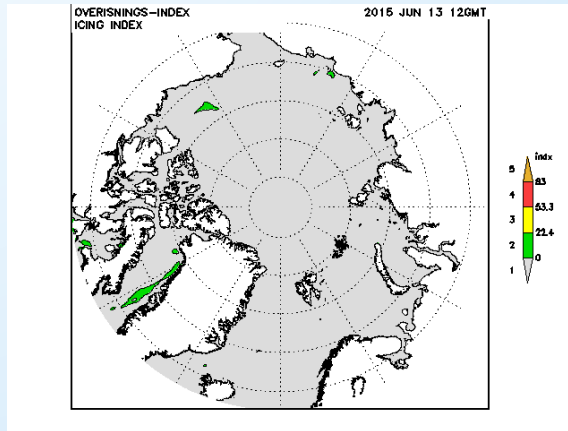


EuroGOOS

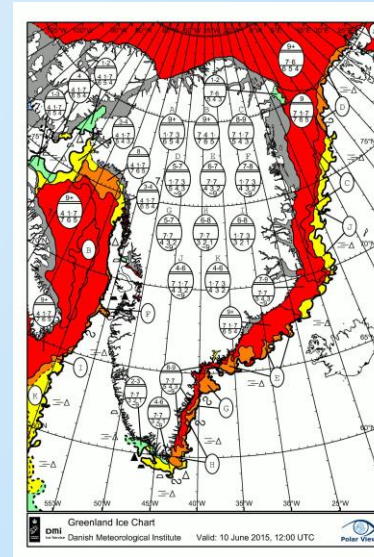
European Global Ocean Observing System

Operational end-user Services

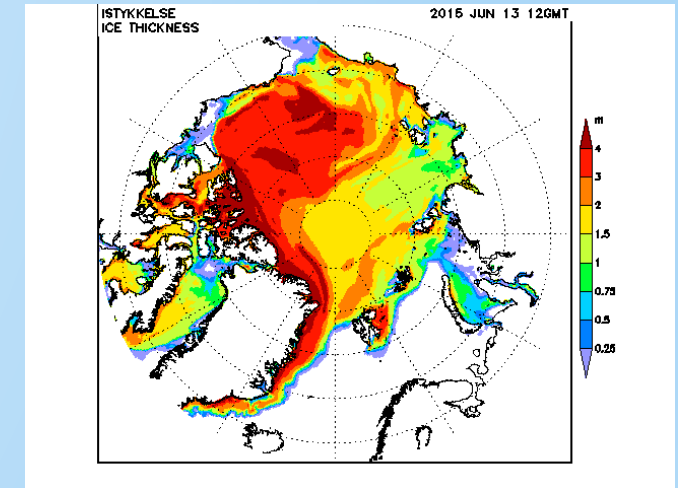
Icing Index



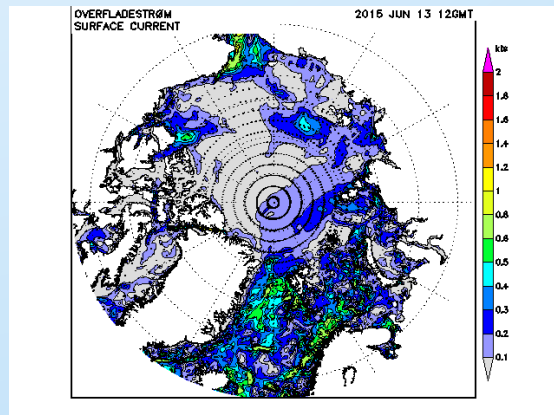
Sea-Ice service



Ice thickness



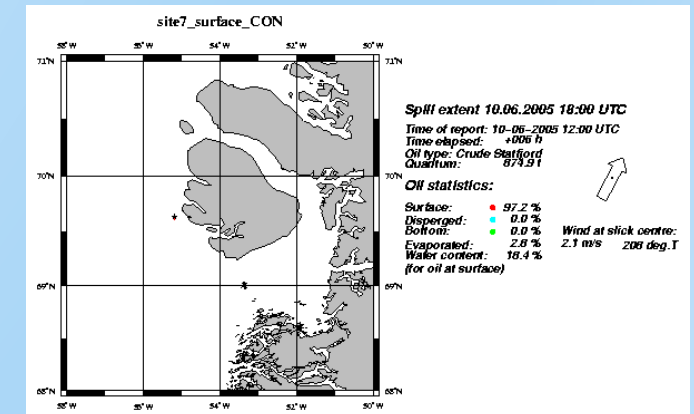
Surface currents



Search and Rescue



Oil spill Service

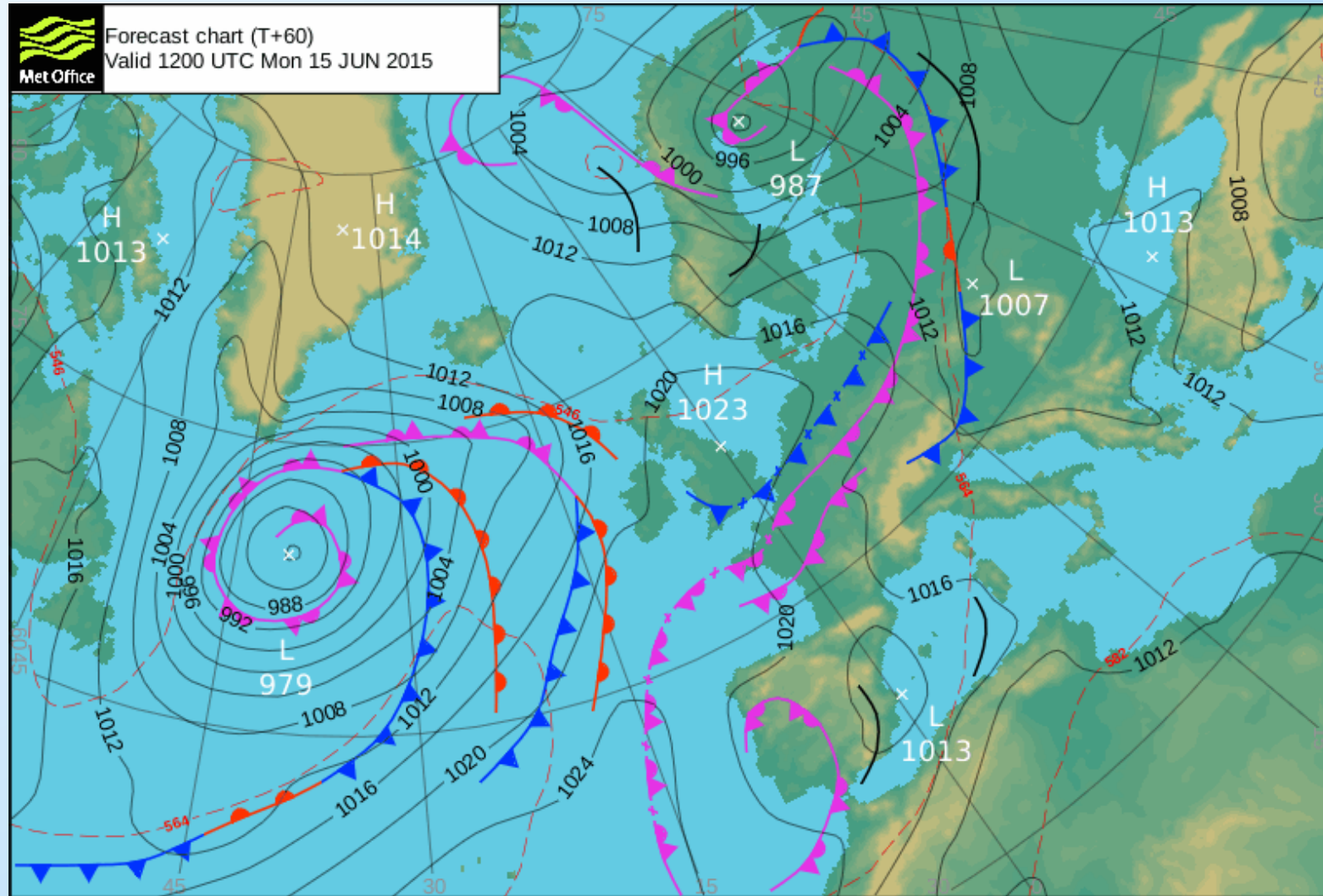




EuroGOOS

European Global Ocean
Observing System

International cooperation essential



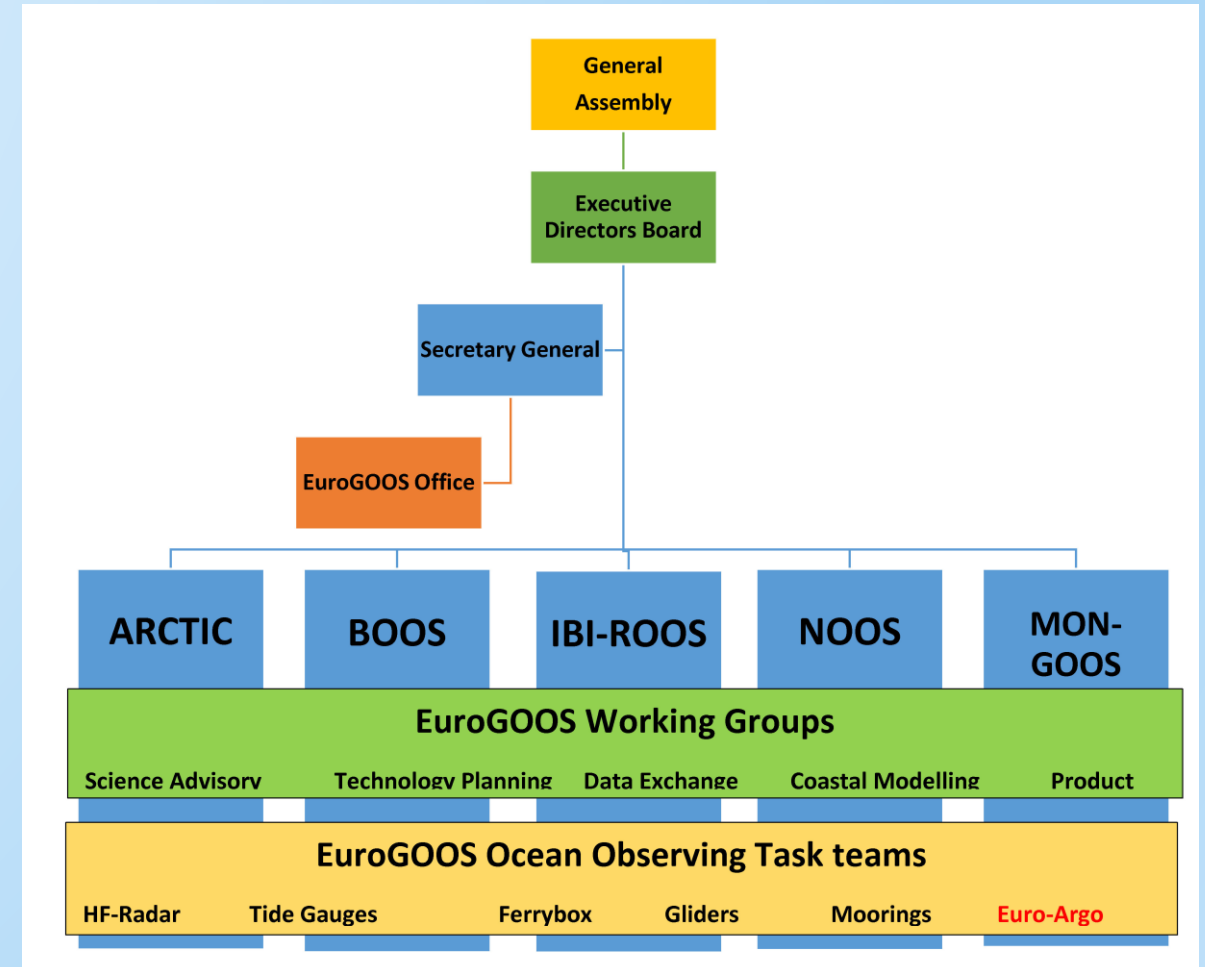


EuroGOOS

European Global Ocean
Observing System

- EuroGOOS
- Copernicus Marine Service
- EMODnet – European Marine observations and Data Network

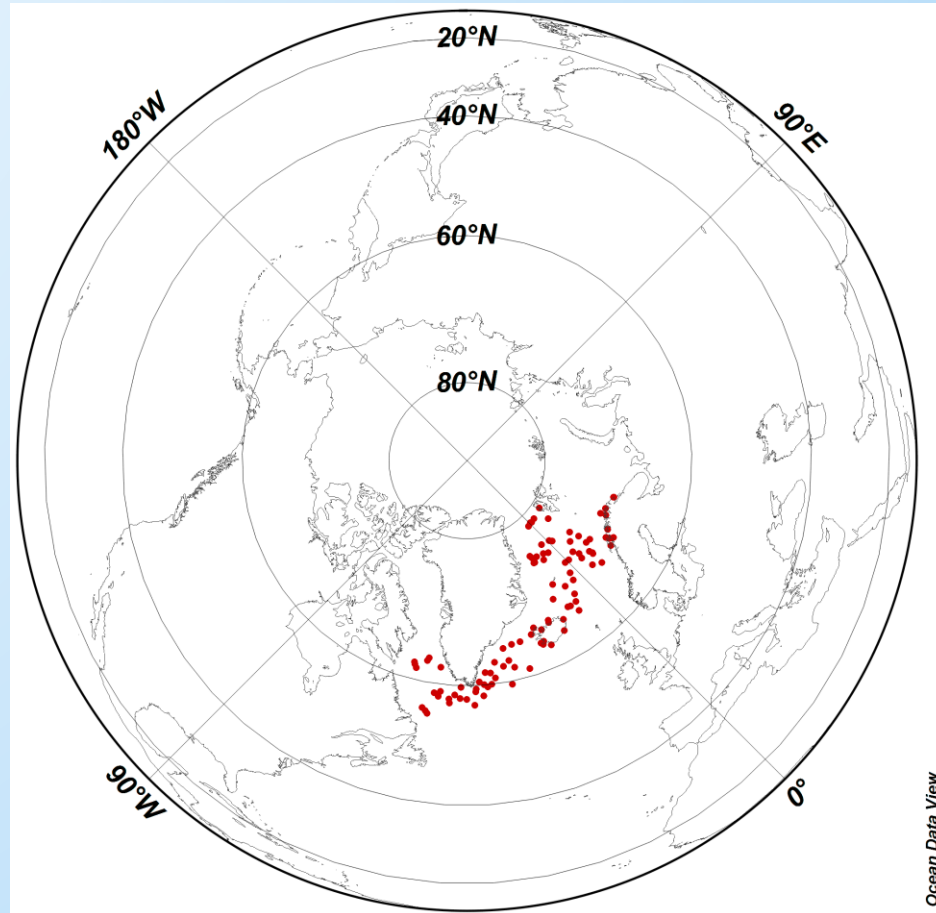
European activities





EuroGOOS
European Global Ocean
Observing System

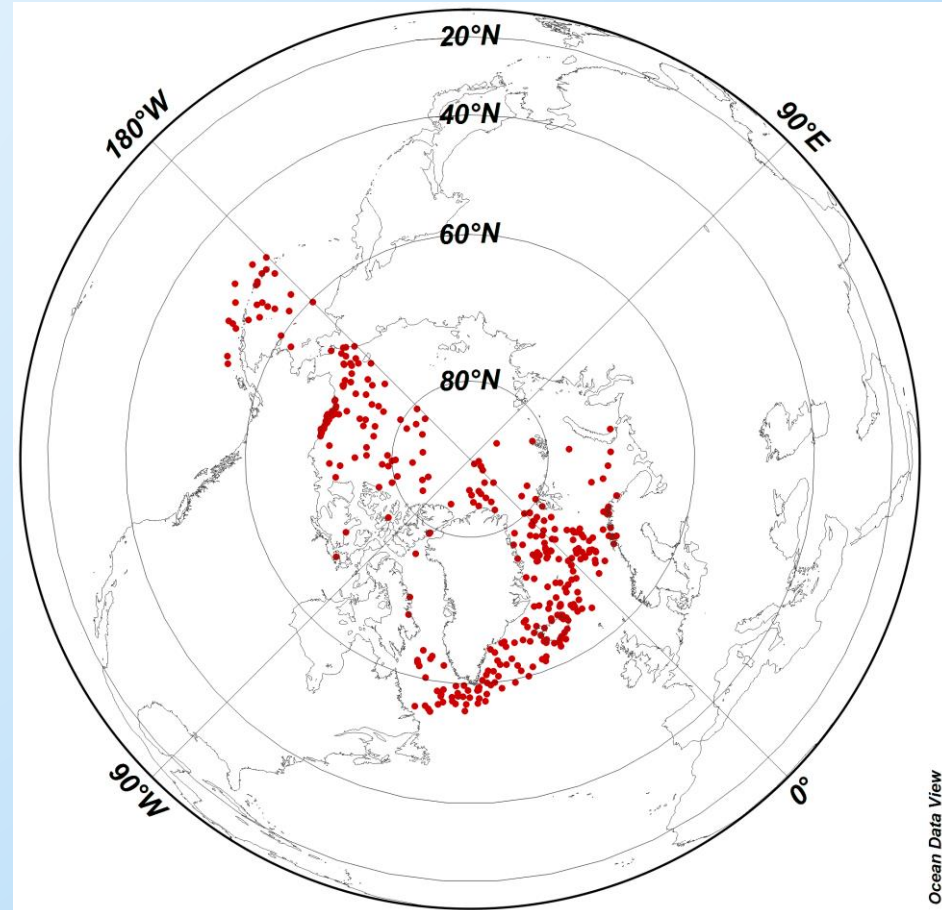
EMODNET European Data





EuroGOOS
European Global Ocean
Observing System

EMODNET – European and IOOS (US) data





EuroGOOS

European Global Ocean
Observing System

Vision for the future

- Partnership = sharing responsibilities and costs
- Based on a common vision for an Arctic Ocean Observation system
- Synergy in working together



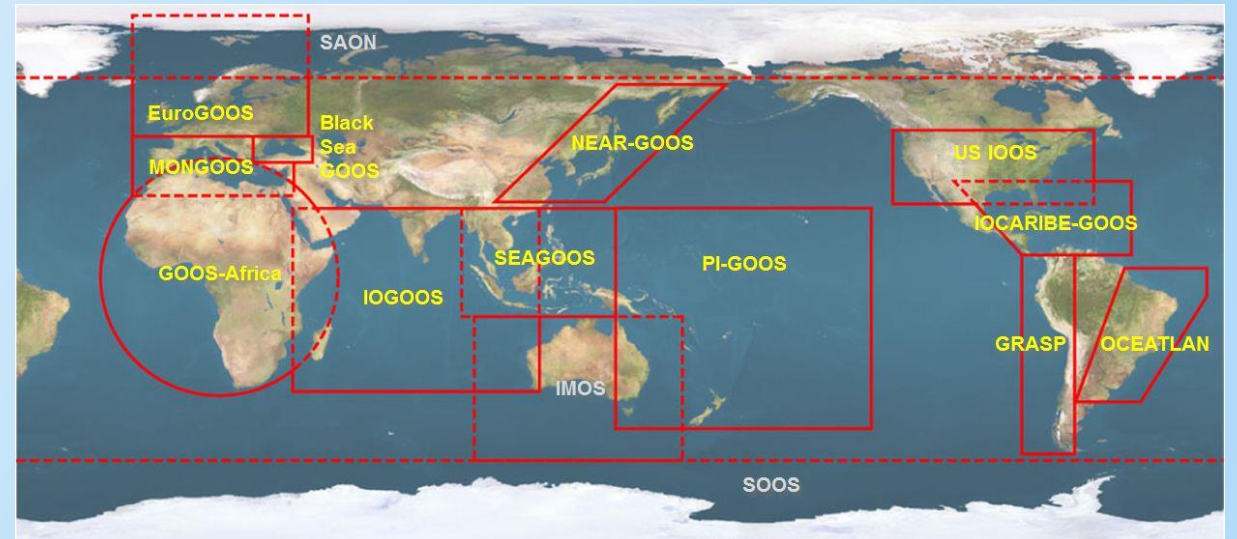


EuroGOOS

European Global Ocean
Observing System

IOC to establish an Arctic GOOS

Proposal





EuroGOOS

European Global Ocean
Observing System



Thanks for the attention