

# Status of FerryBox lines in Norway and beyond



Andrew L. King, Marit Norli, Pierre Jaccard, Kai Sørensen  
Norwegian Institute for Water Research

# NIVA FerryBox ship of opportunities

## **M/S Norbjørn**

Bring A/S; Marine Supply



## **M/S Trollfjord**

Hurtigruten



## **M/S Norröna**

Smyril Lines

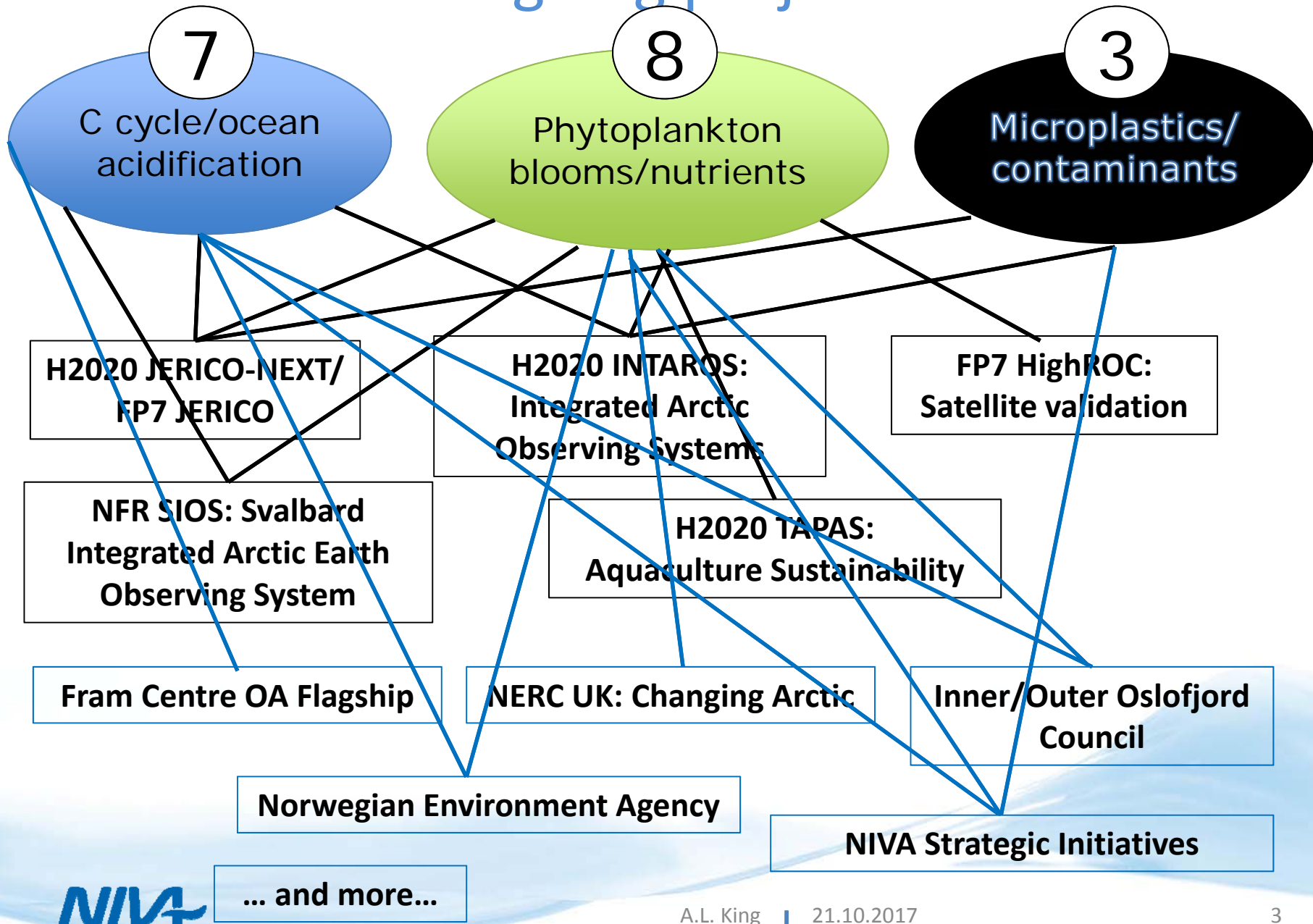


## **M/S Color Fantasy**

Color Line

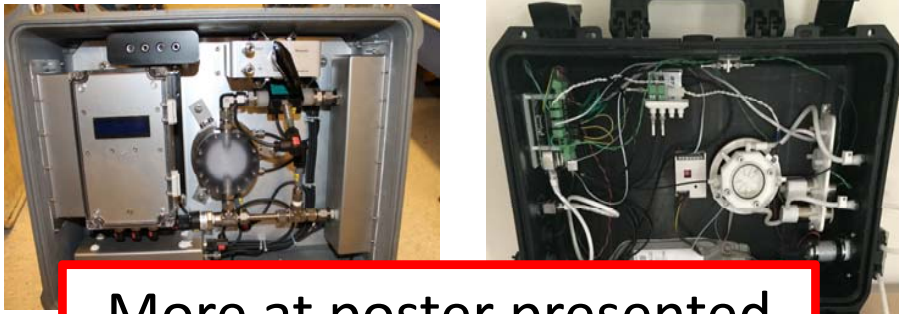


# Ongoing projects



# Sensors and samplers in use and under development

Carbonate system sensors



More at poster presented by Marit Norli

Toxin/contaminant sensors/samplers



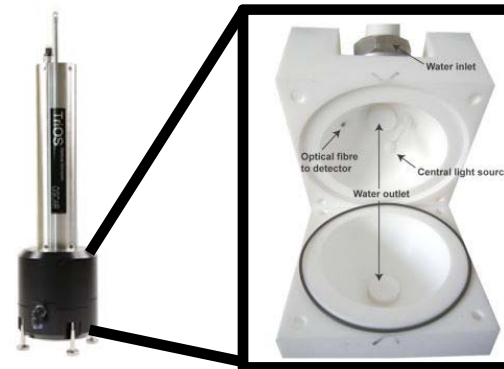
See MariaBox demo next door

cDOM fluorometer



More at poster presented by Caroline Mengeot

Integrated sphere absorption sensor



Microplastics samplers



See Microplastics demo next door

# Upgrade M/S Norröna



- Important line in terms of physics and biogeochemical connection between Atlantic and Norwegian/Arctic region
- Partnership with US collaborators (ADCP + XBTs)
- New cooperation with Marine Institute in Faroe Islands
- Upgrade core FerryBox system
- Install autosampler and advanced sensors (thermal radiometer for SST; DMI)

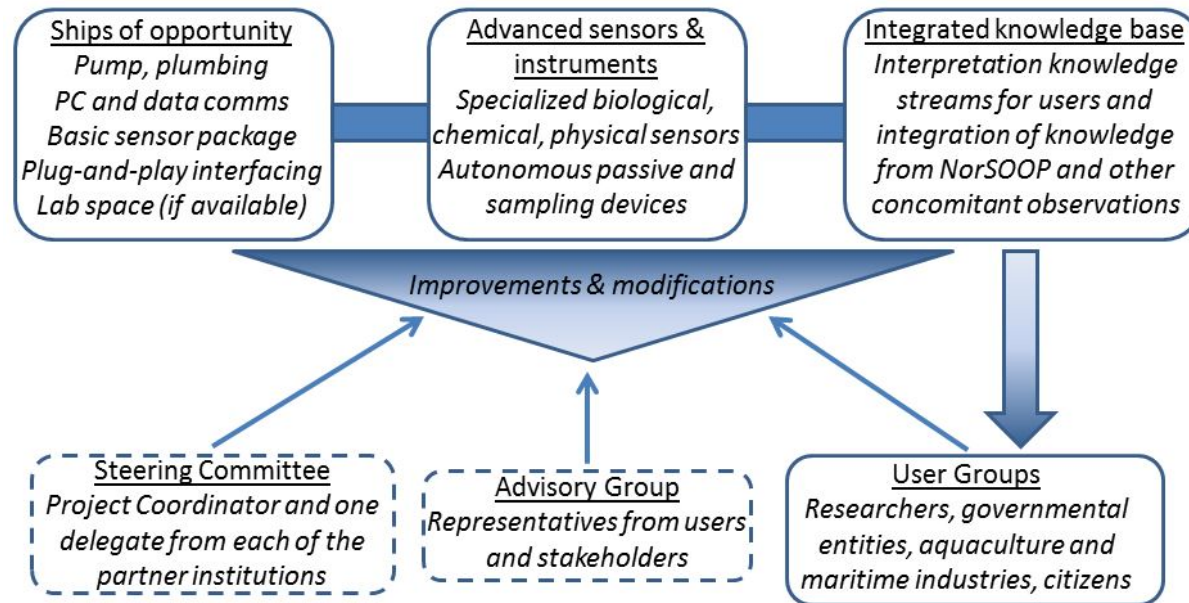
# New M/S Amundsen and the Southern Ocean



- New Hurtigruten ship in 2018 that will cruise around S. America and Antarctica
- FerryBox has been planned into its design and construction
- Will add a new polar region to NIVA's FerryBox network

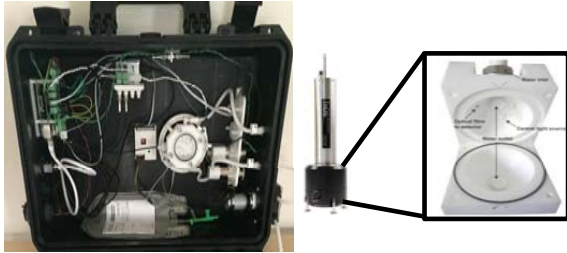


# Proposal submitted: Norwegian Ships of Opportunity (NorSOOP)

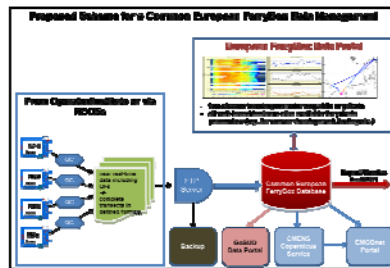


- Proposal to Norwegian Research Council in 2016 with NIVA, IMR, MET NO, and Akvaplan-niva
- Coordinate and upgrade existing FerryBoxes
- Add 3 new FerryBoxes (Lofoten Islands, Norwegian Sea, Arctic)
- Provide onboard lab space for visiting researchers and experiments
- 1<sup>st</sup> place on reserve list – still waiting for answer`

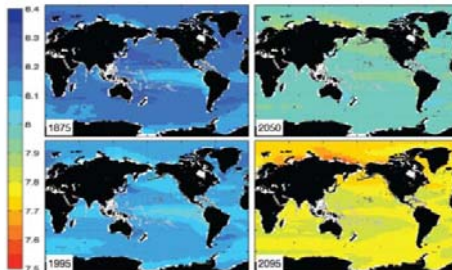
# Major tasks moving forward



Implement new sensors and try to standardize existing ones



Data management: how to best deal with data and how to put it to use



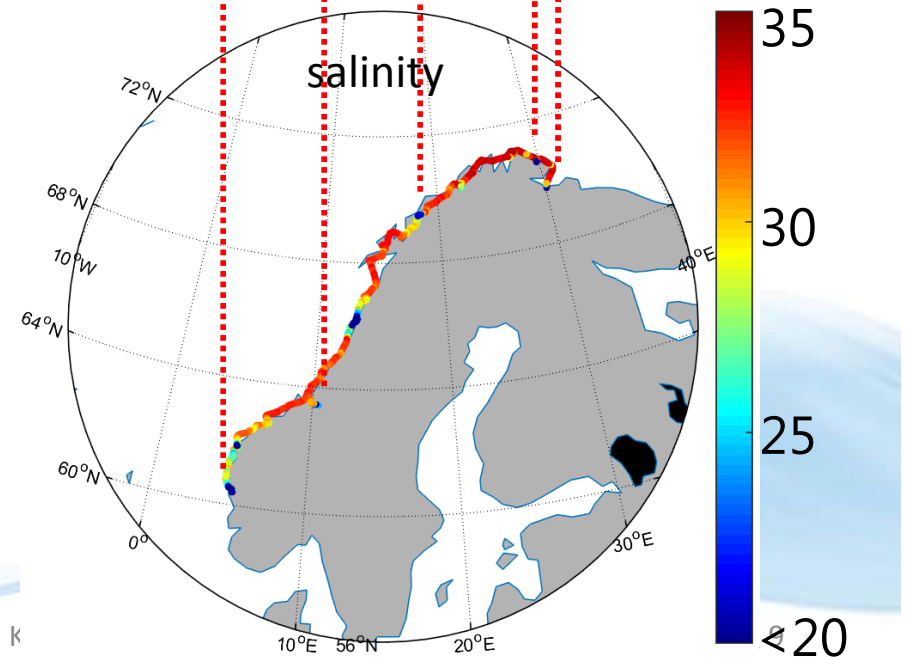
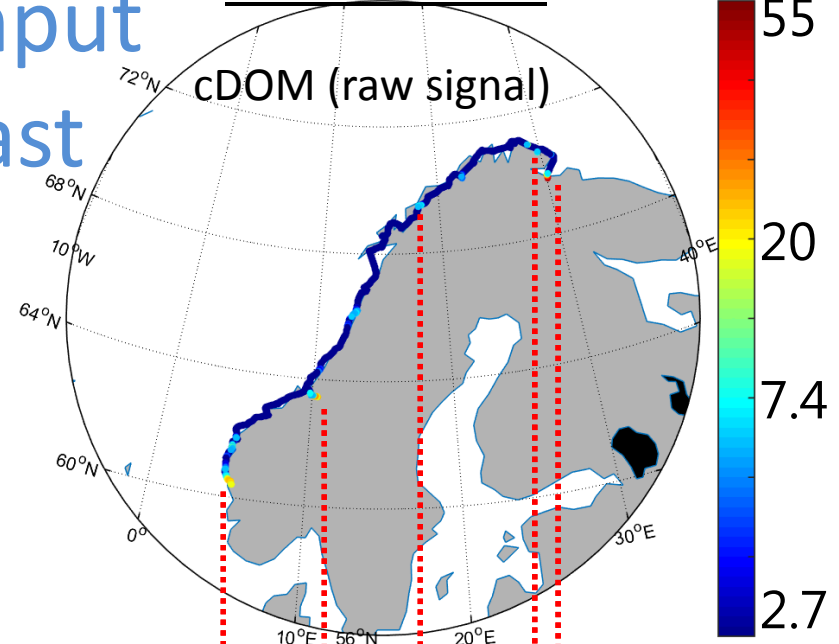
Analyze observations and put in context of pressing environmental and research issues



# Freshwater and cDOM input along the Norwegian coast

More at poster presented by  
Caroline Mengeot

23-28 June 2017



## Salinity v. cDOM

