SIOS Marine Infrastructure Workshop KROP – Kongsfjorden Rijpfjorden Observatory Programme

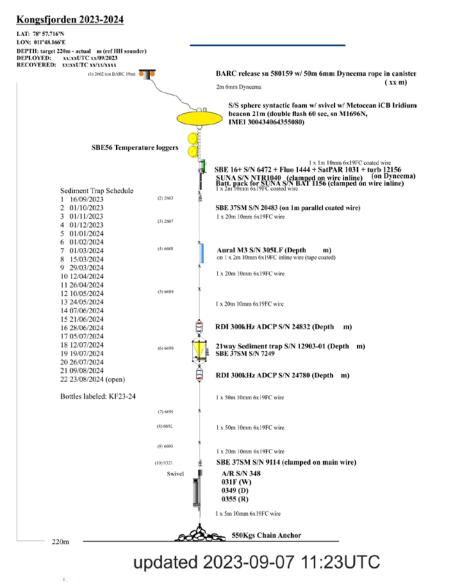
9. oktober 2023 Jørgen Berge, Malin Daase, Daniel Vogedes, UiT



UiT The Arctic University of Norway



Overview of marine infrastructure / time series



- KF (near KB3) : 2002 ongoing, Rijpfjorden 2006 ongoing
- Mostly identical setup over years and fjords
- All data available except:

sediment trap (various processing levels) AURAL (data kept by NPI and not shared)

- Successful test of BARC system (anchor recovery and other features

Instrumentation:

BARC canister for full recovery incl anchor 10 x SBE56 temp logger evenly spaced Syntactic foam sphere w/ Metocean Iridium beacon SBE16p w/ fluoresence and PAR SUNA nitrate sensor 3 x SBE37 (top, middle, bottom) 2 x ADCP 300 kHz (at 100 m upward and downward) McLane 21-way sediment trap IXBlue acoustic release Anchor: 500 kg old anchor chain

From 2023: change to 10mm Dyneema instead of wire **UIT** The Arctic University of Norway www.sios-svalbard.org

Outlook, future perspectives

Kongsfjorden: part of the InfraNOR programme, hence in operation throughout 2026. Also part of a planned infrastructure-proposal lead by NORCE

Rijpfjorden: No funding, based on UiT priorities and opportunities

Both observatories need a more longterm commitment!



	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Kongsfjorden	•																_	•								₽ ?
Rijpfjorden					•			•	-														-	?		

SIOS



Main logistical challenges and wishes

- Longterm funding
- One thing is the logistical challenges of putting things in the water / picking them up, but another and equally important issue is the curation, management and use of data.
- Clear and more strategic interplay between different types of infrastructure.
 E.g. in Kongsfjorden through the marine flagship...how can our observatories contribute towards a more comprehensive understanding of the system?



What you hope to get out of a Svalbard marine infrastructure network

- Opportunities to share logistics (cruises, equipment, manpower, data handling etc)
- A joint and broader interaction between sites and data
- Data sharing!!

