

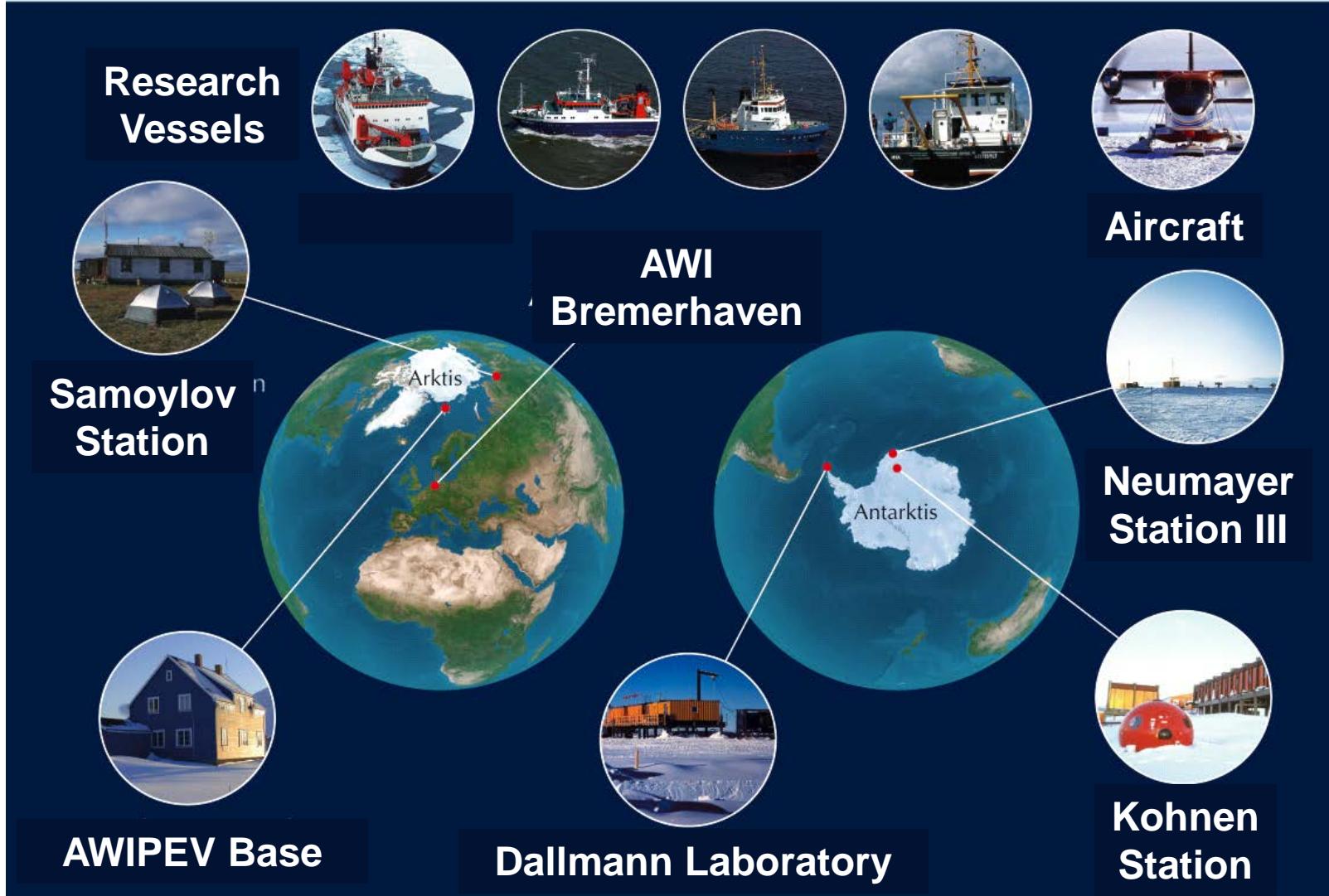
AWI HGF



Dirk Mengedoht et al., 2019

Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung

AWI Research Platforms



AWI Organisation



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG

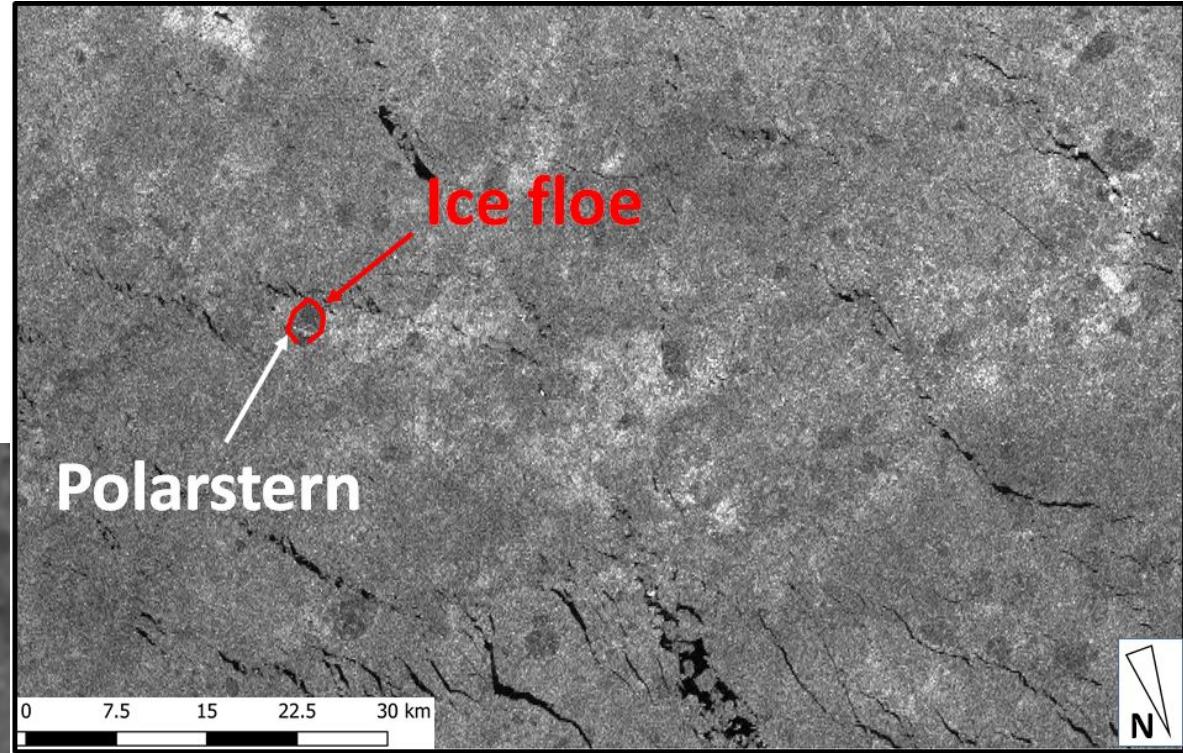
Scientific Divisions, Technologies and Services

Geosciences	Biosciences	Climate Sciences	Infrastructure / Administration
Prof. Dr. R. Tiedemann	Prof. Dr. T. Brey	Prof. Dr. T. Kanzow	
Geophysics Prof. Dr. W. Jokat	Polar Biological Oceanography Prof. Dr. D. Wolf-Gladrow komm.	Atmospheric Physics Prof. Dr. M. Rex	Logistics and Research Platforms Dr. U. Nixdorf
Glaciology Prof. Dr. A. Humbert	Marine Biogeosciences Prof. Dr. J. Bijma	Polar Meteorology Dr. C. Lüpkes	Computing and Data Centre Prof. Dr. S. Frickenhaus
Permafrost Research Prof. Dr. G. Grosse	Functional Ecology Prof. Dr. T. Brey	Physical Oceanography of Polar Seas Prof. Dr. T. Kanzow	Library K. Brannemann
Marine Geology and Palaeontology Prof. Dr. R. Tiedemann	Benthopelagic Processes Prof. Dr. C. Richter	Climate Dynamics Prof. Dr. T. Jung	Scientific Workshop Dr. J. Lemburg
Marine Geochemistry Prof. Dr. S. Kasten	Integrative Ecophysiology Prof. Dr. H.-O. Pörtner	Sea Ice Physics Prof. Dr. C. Haas	Human Resources C. Ruholl
Research group Polar Terrestrial Environmental Systems Prof. Dr. U. Herzschuh	Ecological Chemistry Prof. Dr. B. Koch	Palaeoclimate Dynamics Prof. Dr. G. Lohmann	Corporate Finances C. Ungermann
	Shelf Sea System Ecology Prof. Dr. M. Boersma		Purchasing Department J. Eilers
	Coastal Ecology Prof. Dr. K. Wiltshire		Administration and Organization M. Bong-Bertram
	Deep-Sea Ecology and Technology Dr. T. Soltwedel		Construction and Facility Management M. Krüger
	HIFMB Prof. Dr. H. Hillebrand		Technology and Environmental Protection G. Strelow

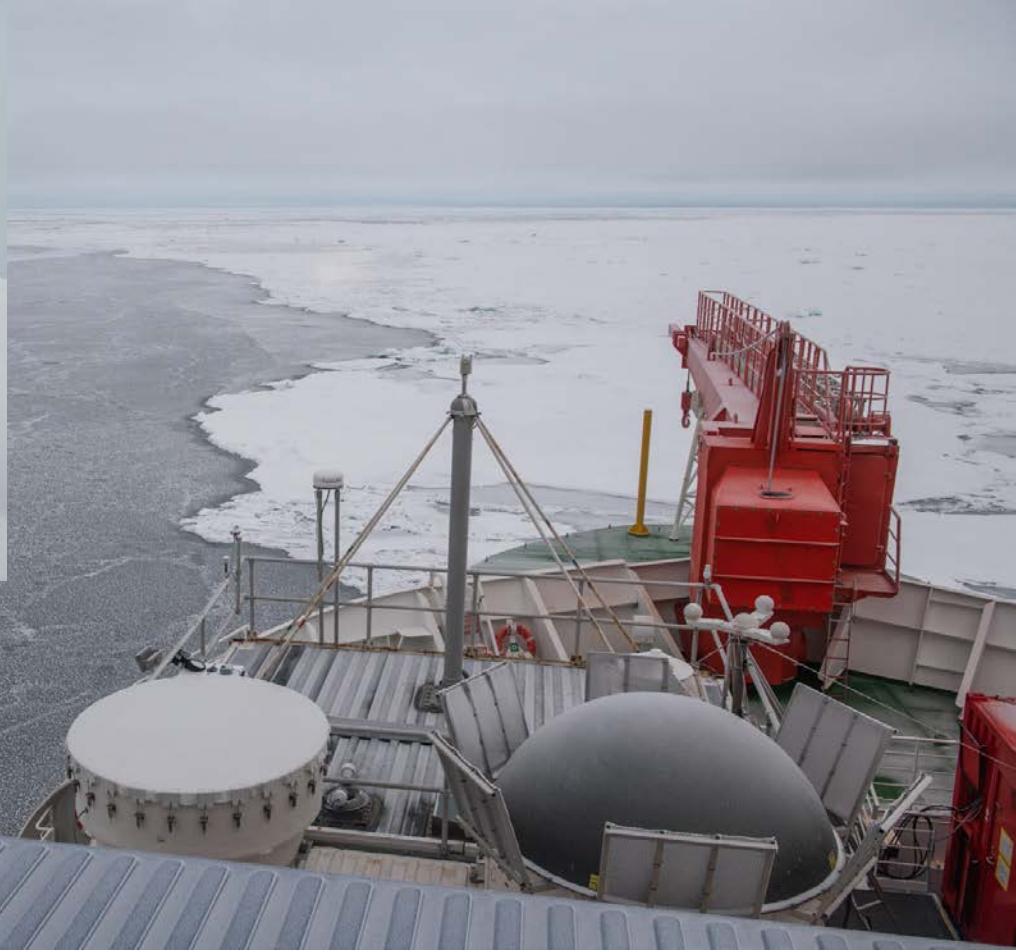
Floe at: 85°N/137°E
5 October 2019



about 2.5 x 3.5 km







MOSAiC web app for all news:

<https://follow.mosaic-expedition.org>

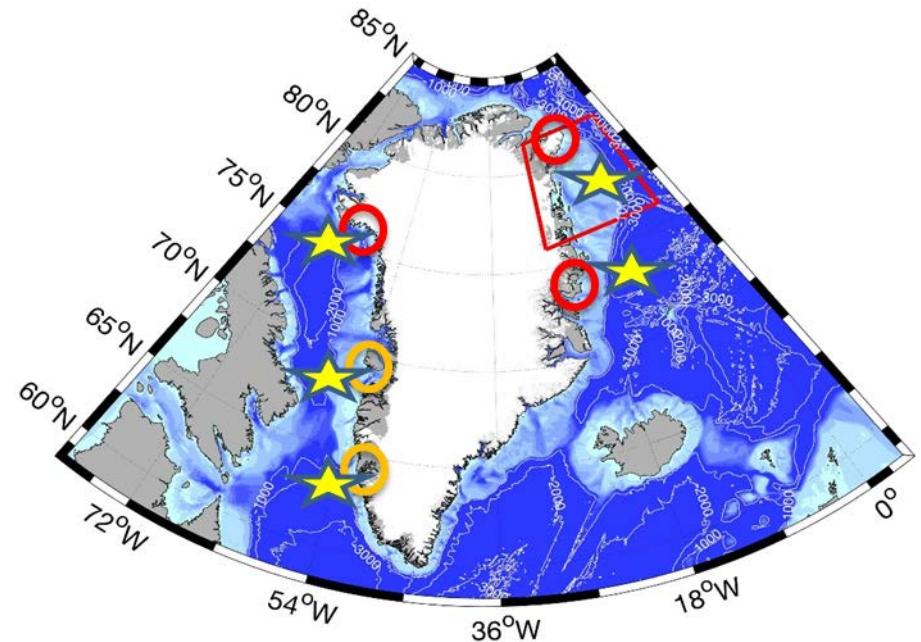
official website:

<https://www.mosaic-expedition.org>



AWI-ASP Monitoring

- GCRC
- AWI
- U Aarhus
- U Copenhagen
- Canada?
- ???

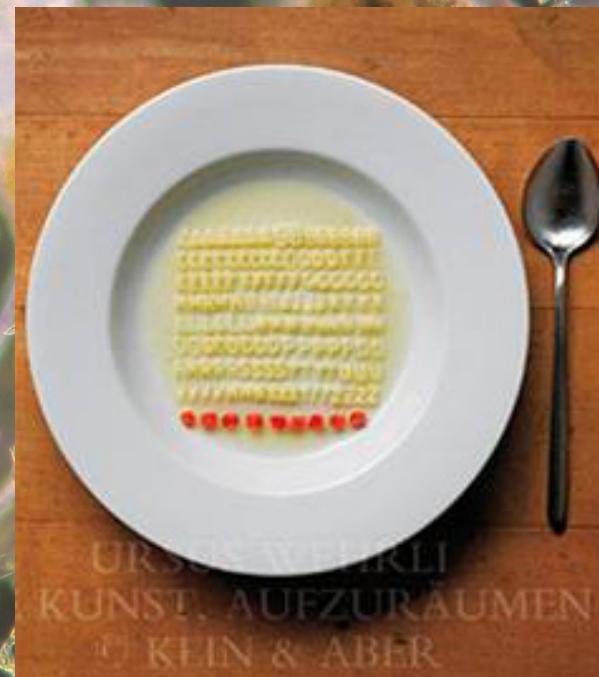


Disko Bay, Nuuk, Daneborg/Zackenberg, Station Nord/Villum,
North West(?)

=> first sampling period finished in Disko Bay

Coordinated sampling at 4 or 5 stations (equipment AWI-UJ)
Coordinated sample analyses

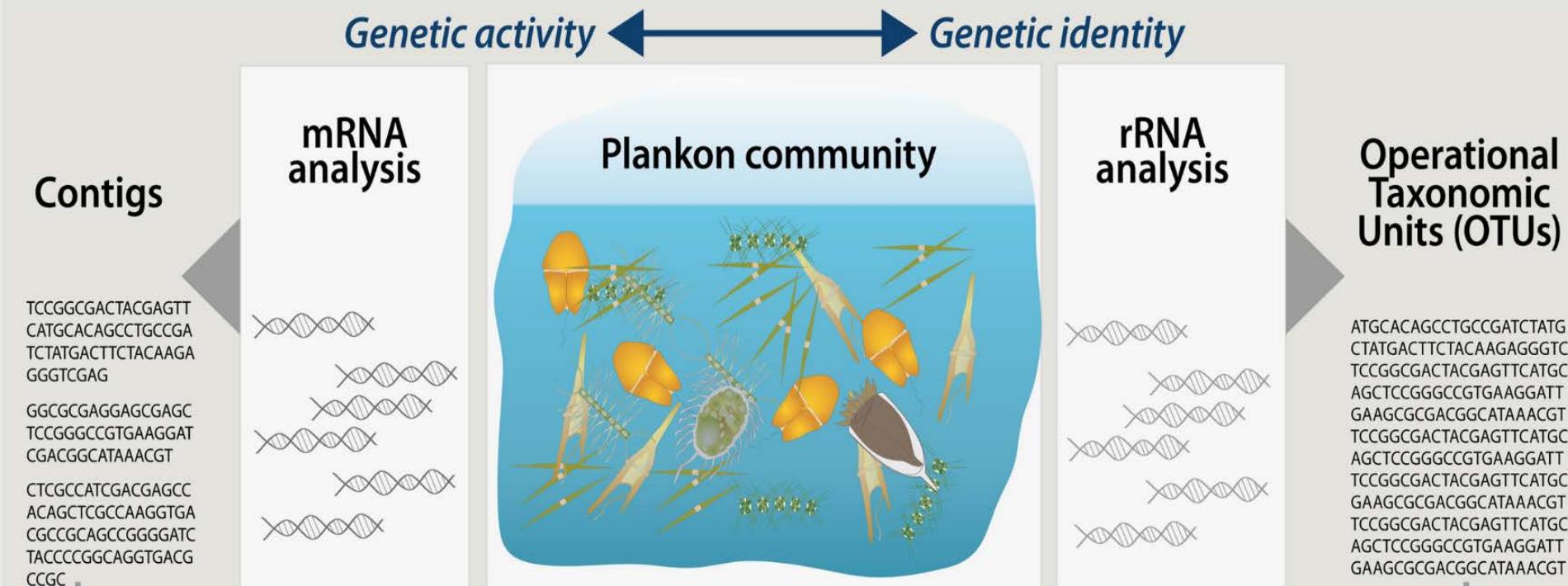
What is going on in the field..?



Lab to
Field

200 μ m

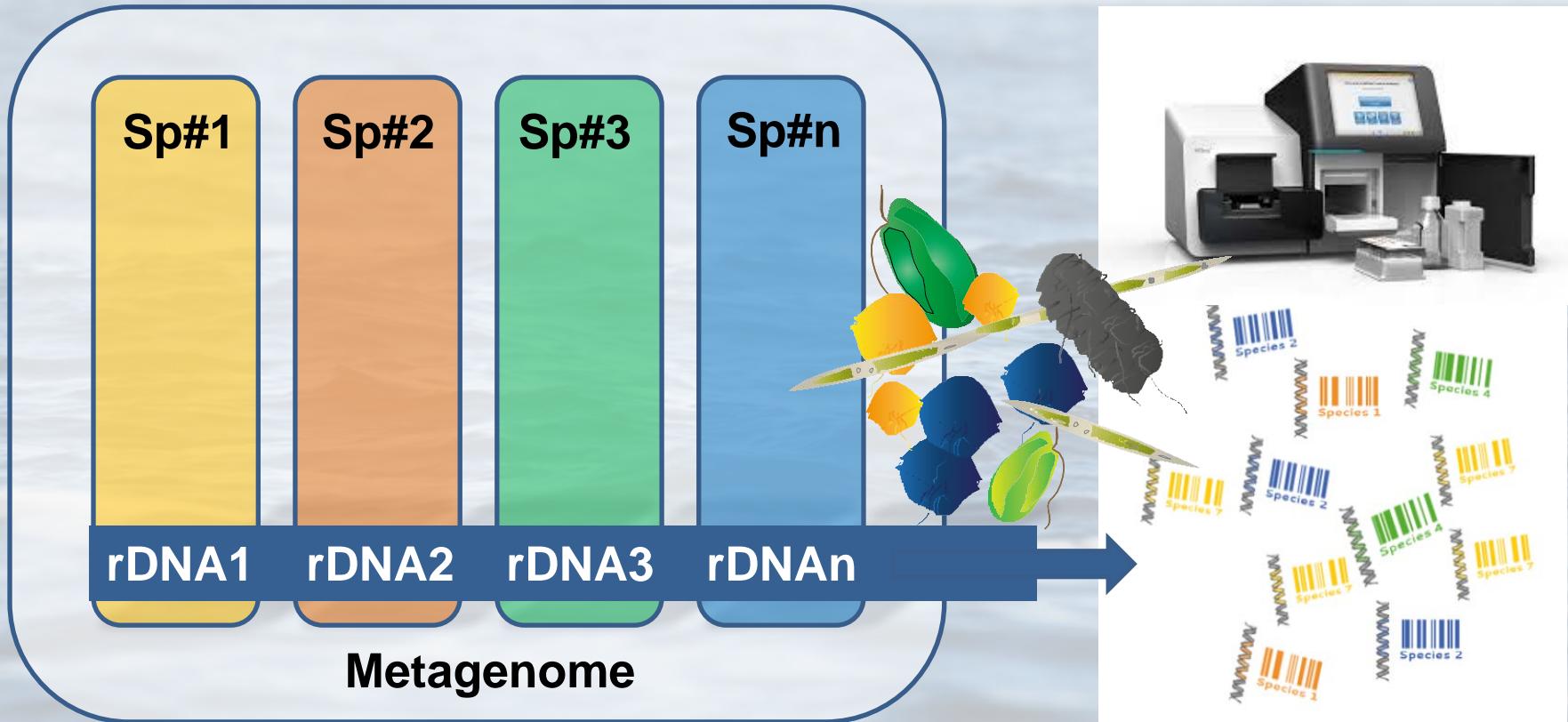
Community Understanding



Comparative Metatranscriptomics: „Who is there?“ & “What are they doing?”

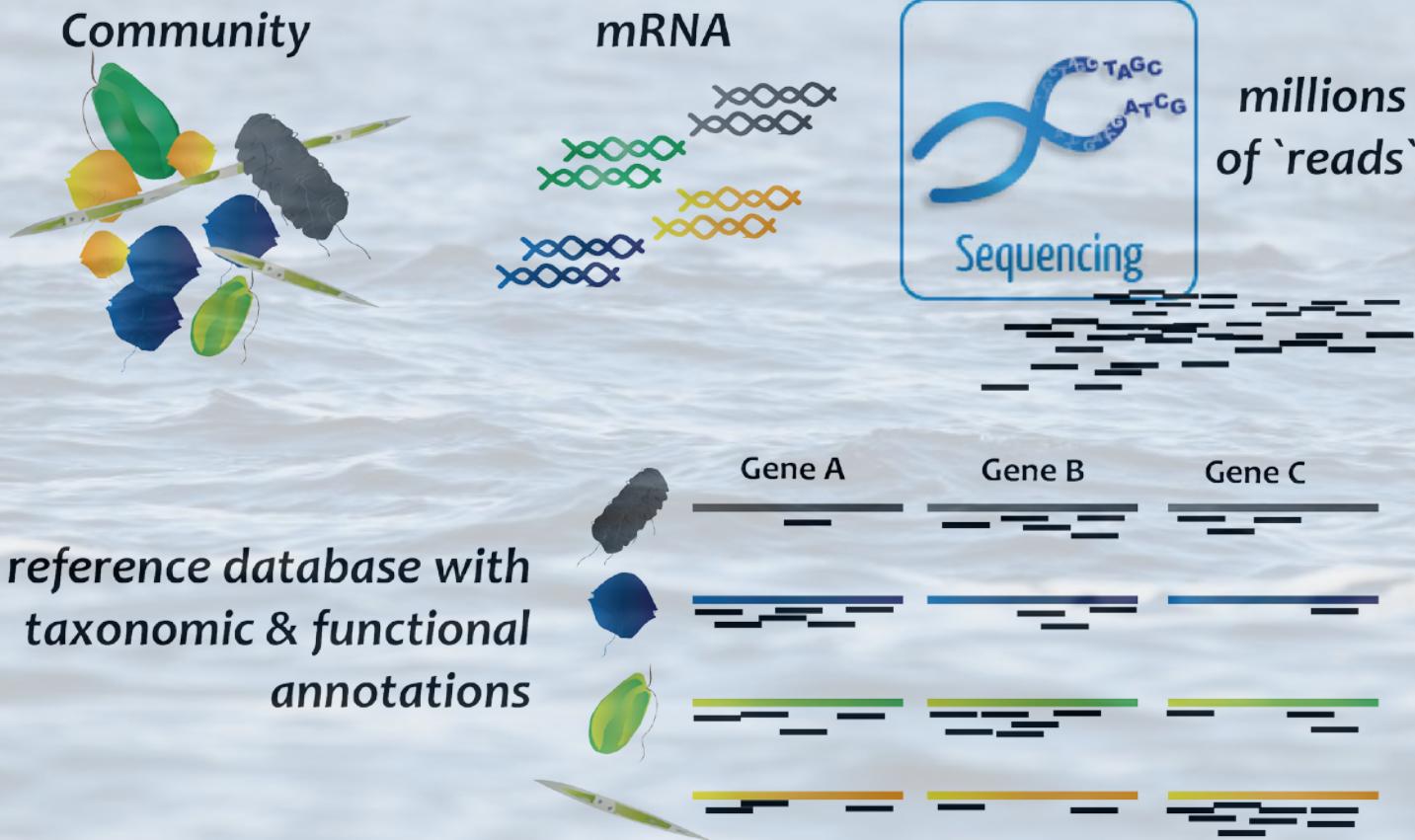
Community analyses

Metabarcoding



Community analyses

Metatranscriptomics



Expeditions:

- MOSAiC is running until 2020
- 2021 North and West Svalbard (Spitzbergen): van Mijenfjorden, Wijdefjorden, Woodfjorden, Kongsfjorden, Isfjorden.
- Scoresbysund 2022

Monitoring workshop and including Station Nord/Villum (?) and Daneborg/Zackenberg(?)... Meeting in Nuuk Feb/March 2020?

- Which data to collect
- Sampling
- Analyses
- logistics

The Team

- **Uwe John: science et al.**
- **Torsten Kanzow: science et al.**
- **Dirk Mengedoht: logistics et al.**
- **Claudia Hanfland: education**
- **Ralf Röchert: communication**
- **Behind the Scene but always around: Nicole Biebow**

