



German Arctic Expeditions 2021 - 2022

FARO/ASSW, 2022, Tromsø

Dirk Mengedoht (Alfred Wegener Institute, Germany)



Polarstern Arctic Expeditions

2021

Leg	Start	End	Mission
PS126	24 May 2021 Bremerhaven	28 June 2021 Bremerhaven	FRAM Framjelly (Fram Strait, West Spitzbergen & East Greenland)

Testings + 16 days quarantine in Bremerhaven



RV POLARSTERN

SCHEDULE

2021

[illegible]

Polarstern Arctic Expeditions

2022

Leg	Start	End	Mission
PS131	27 June 2022 Bremerhaven	17 August 2022 Bremerhaven	ATWAICE Fram Strait NE Greenl. Shelf W Nansen Basin



Heincke Arctic Expeditions

2020



Leg	Start	End	Mission
HE605	09.08.2022 Bremerhaven	05.09.2022 Bremerhaven	RISING Biology Lofoten, Barent Sea, Svalbard

No Arctic cruises in 2021

2022-2023



Isabelle Schulz
Station Leader

Guillaume Herment
Observatory
Engineer

Tommy Jegou
Logistic Engineer

The new team is
planned
to arrive 4 April.

2021-2022



Gregory Tran
Station Leader

Fieke Rader
Observatory
Engineer

Yohann Dulong
Logistic Engineer

- Atmosphere Observatory
- Permafrost Observatory
- Under Water Observatory



www.awipev.eu/awipev-observatories

- **Many returning projects related to topics of all four Flagships**



www.awipev.eu/science/projects-in-2022

—————→ **Focus on the NEW projects**

cyanobacteria

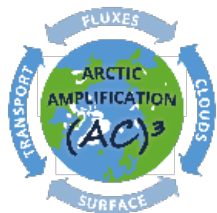
prasiolaceae

STRUFUMICOM

brownification

RIS-ID	PI	Project	Institutes
5742	Philipp Fischer	Underwater Observatory	AWI
11789	Charlotte Havermans	Arctic Jellies	AWI
11219	Benoit Lebreton + Lars Gutow	MADFOOD? Benthic Algae	Univ.LaRochele, AWI
10524	Carlos Jimenez	Radionucleides in macroalgae and sediments	Univ.Malaga
10794	Jean Lilensten	Polarisation of the thermospheric Red Line in Svalbard (Polarlis)	Univ.Grenoble
11632 2950	Karen Lloyd Julia Boike	Arctic Microbial Permafrost Degradation; Sensitivity of the permafrost systems water and energy balance	Univ.Tennessee, AWI

marine biology projects
in polar night

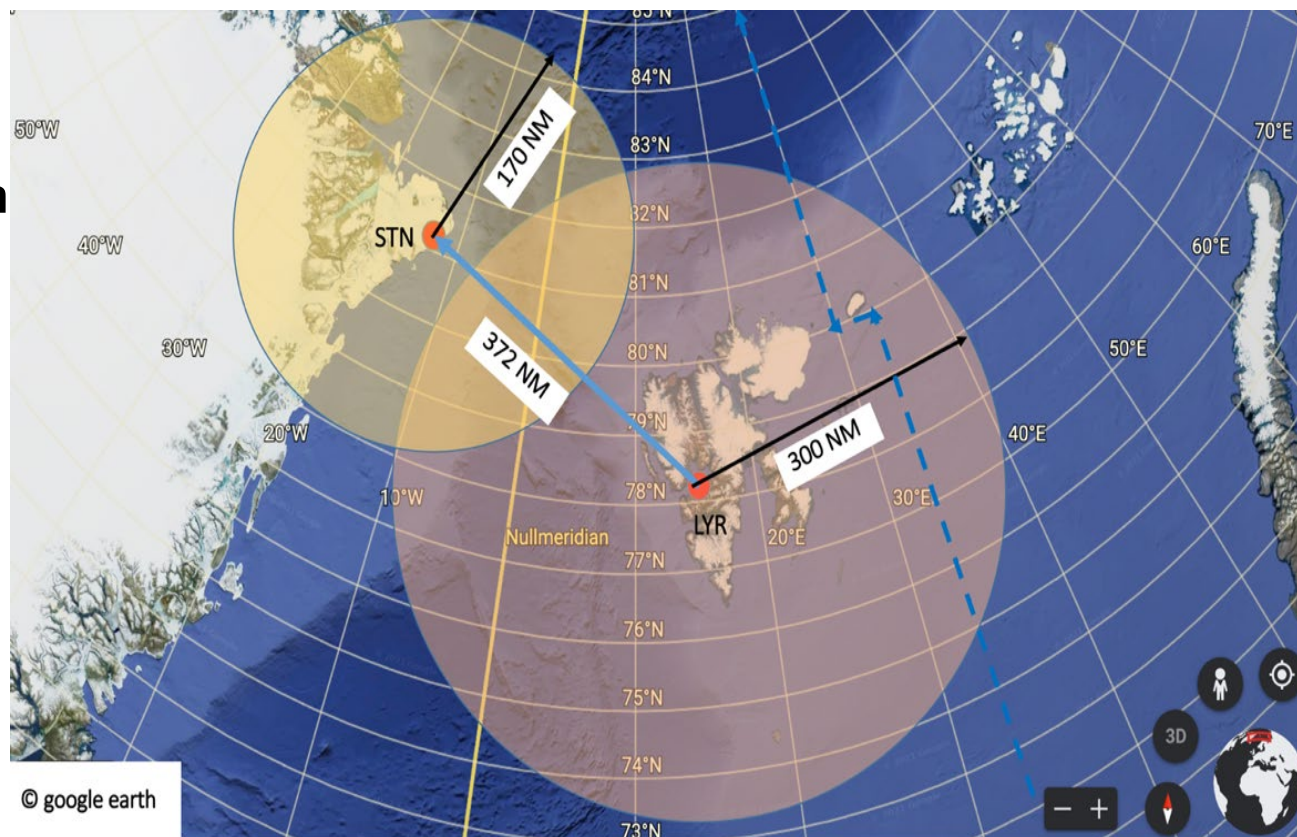


HALO - AC3

POLAR 5 & 6 from Longyearbyen



- **14 March 2022:**
departure Bremen
- **14 April 2022:**
arrival Bremen



UNIVERSITÄT
LEIPZIG



Universität Bremen



TROPOS
Leibniz Institute for
Tropospheric Research



MAX-PLANCK-INSTITUT
FÜR CHEMIE

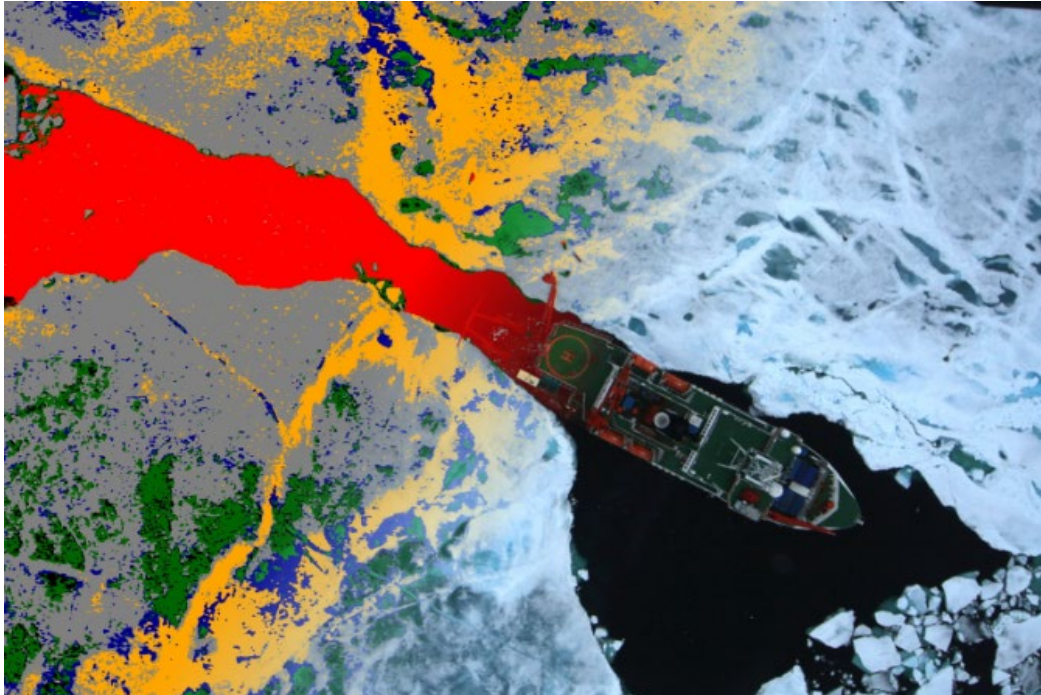


IceBird planned for Summer 2022

Continuation of sea ice thickness time series in late summer

Additional focus:

Studies on melt pond characteristics of different Arctic sea ice regimes



Sea ice surface
classification (green: melt
ponds)

Concerns



The Changing Arctic Transpolar System (CATS, 2017 - 2021)

Heidemarie Kassens (GEOMAR) & Vladimir Ivanov (AARI)



- CATS aims to assess how climate change will affect the highly sensitive Arctic Environment and to what extent these changes may impact the climate in Europe
- Kara Sea, Laptev Sea, East Siberian Sea and Chukchi Sea
- Severnaya Zemlya (Cape Baranova)



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



Thank you!