

The Expedition in Numbers



3,400 km: is the distance the Polarstern drifted on a zigzagging course, covering a distance of **1,923 km** in the process



Polarstern was up to **1,500 km** from the nearest human settlement.



Record: during the drift Polarstern reaches **88°36' North**, just **156 km** from the North Pole.



More than **80 institutes** from **20 countries** took part in MOSAIC:



The expedition's research team comprises **37 nationalities**.



7 icebreakers and research vessels carried out and supported the expedition.

- RV Polarstern
- Akademik Fedorov
- Kapitan Dranitsyn
- Admiral Makarov
- RV Maria S. Merian
- RV Sonne
- Akademik Tryoshnikov




The expedition took **389 days** in total.




Produced by




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The MOSAIC floe measured roughly **2.5 x 3.5 km** in the beginning of the drift. Though only **30 cm** thick beneath former melt pools, its solid core was up to **several metres** thick.




The floe 2.0 was roughly **400 x 500 m** in size, and, apart from a ca. 100-metre-wide strip that was several metres thick, was ca. 1.5 metres thick.



300: the number of days on which the team conducted research on the first MOSAIC floe. For a further **30 days**, the team conducted research on the floe 2.0.



The MOSAIC floe was formed off the Siberian coast.



337 scientists and experts and 105 crewmembers of Polarstern were part of MOSAIC. In addition, there were hundreds of people on the supply vessels and on land who supported MOSAIC's research and logistics.



Expedition Leader: Markus Rex

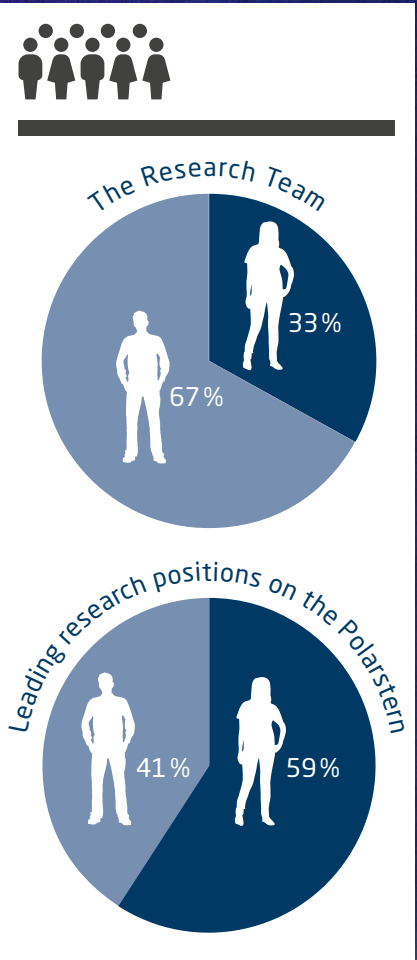
Leg 1
Cruise Leader: Markus Rex
Ship's Captain: Stefan Schwarze

Leg 2
Cruise Leader: Christian Haas
Ship's Captain: Stefan Schwarze

Leg 3
Cruise Leader: Torsten Kanzow
Ship's Captain: Stefan Schwarze

Leg 4
Cruise Leader: Markus Rex
Ship's Captain: Thomas Wunderlich

Leg 5
Cruise Leader: Markus Rex
Ship's Captain: Thomas Wunderlich




Average age of participating researchers: **39 years.**

Photo: Michael Gurtzche / Alfred-Wegener-Institut



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36,278 m: the altitude of the highest measurements taken in the atmosphere



Ca. **1,500** research balloons were launched into the atmosphere.



Up to **70 metric tons** of equipment were installed at the ice camp.



4,297 m: the deepest point in the ocean at which the expedition took measurements



84: the number of days the ROV dived beneath the ice



2,600 m of data cables and **5,000 m** of power cables were laid in the ice camp.



247 monitoring stations drifted as far as **50 km** from Polarstern.



On **56 days** the wind reached speeds of **over 13.9 m/s**.



323: the number of flight hours the helicopters were in use



-42.3 °C, the lowest temperature encountered on the expedition. Factoring in wind chill, this amounted to **-65 °C**.



106: the number of hours the research drones flew over the sea ice



More than **60 polar bears** were sighted near the Polarstern.



Over **1,000 ice cores** were collected.

Photo: Esther Horvath / Alfred-Wegener-Institut

