



Contribution to icebreaker capability

Polarstern

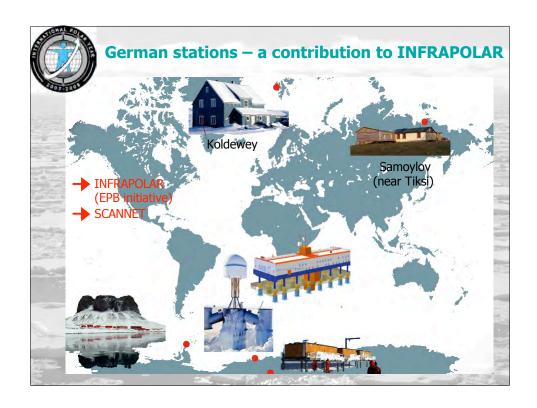
- Bipolar vessel
- biological, geological, geophysical, glaciological, chemical, oceanographic and meteorological research
- International and interdisciplinary expeditions





Aurora Borealis

- Operates autonomously (no additional icebreaker support needed)
- Year-round deployment: Polar Areas and open ocean
- Location of deployment: Central Arctic, Arctic basins, Antarctic Shelf Seas
- Drilling of approx. 1000 m long sediment cores
- International and interdisciplinary expeditions



Coasts

ACCO-Net: Arctic Circumpolar Coastal Observatory Network

IPY lead project for network of coastal observatory sites for monitoring and detecting change in the coastal zone, including:

- coastal erosion and nutrient and sediment flux
- · land-based sea ice observations
- coastal change and socio-economical activity
- changes to ground ice
- Biodiversity inventories, land-ocean biological links

ESA IPY program provides multi-temporal satellite images for ACCO-Net sites :

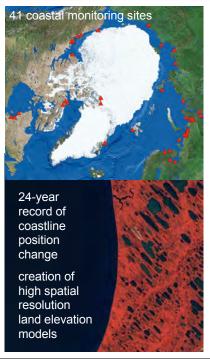
- SPOT 1-4, ALOS AVNIR & PRISM
- time frame: 1986 IPY

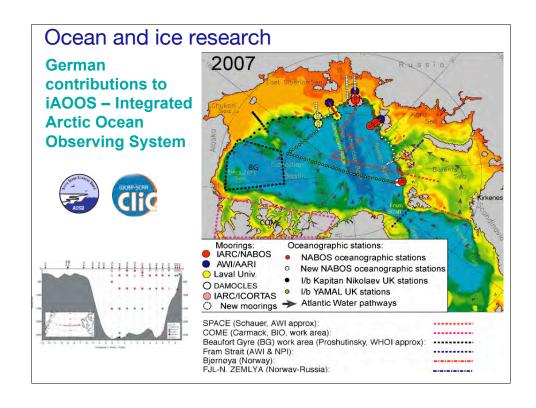




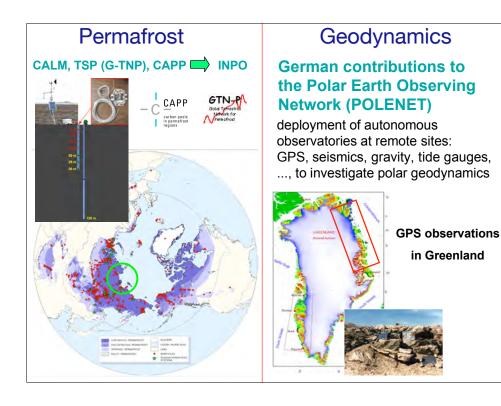








Atmospheric research Atmospheric Investigations on drifting stations Joint German-Russian program AWI-AARI Tethered balloon and ozone measurements Interpretation by regional climate model simulations Atmospheric Investigations of focus on ongoing rapid change of outlet glaciers, including acceleration, thinning, and retreat of ice front opposition of providing an enhanced model on ice discharge from Greenland





Germany's wishlist (non exhaustive)

- Streamline access to the Arctic (logistics, licensing...)
- Strengthen the role of IASC as the platform for international collaboration within the Arctic research realm (and ultimately as the SAON watchdog)
- Support initiatives aiming at coordinating and facilitatingpolar station access and logistics (e.g. INFRAPOLAR)
- Embed SAON into a bipolar framework (e.g. SAON and PANTOS through the SCAR/IASC partnership)

