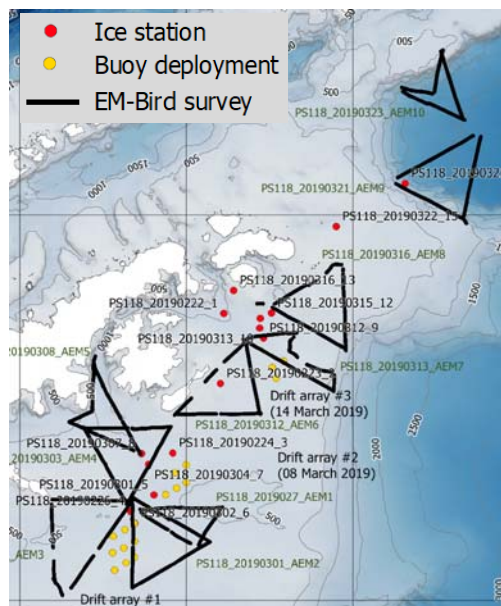


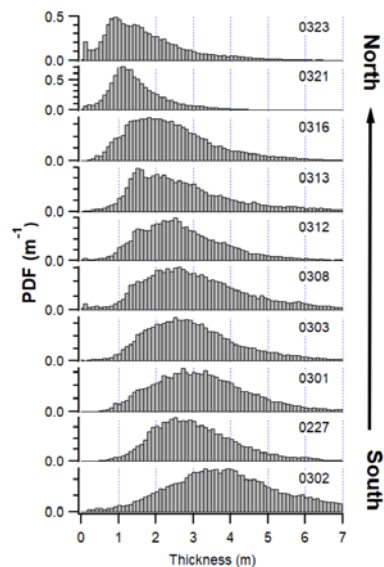
New observations of late summer bio-physical sea-ice and snow conditions in the northwestern Weddell Sea (in Feb/Mar 2019)



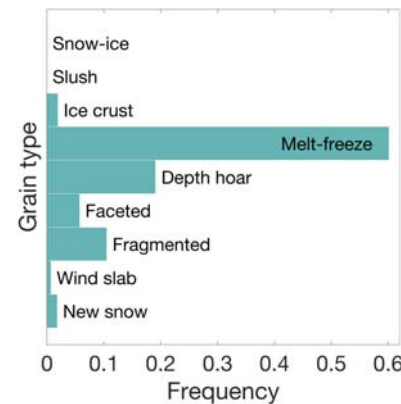
Christian Haas, Stefanie Arndt, Ilka Peeken, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany



Ice thickness (EM Bird)

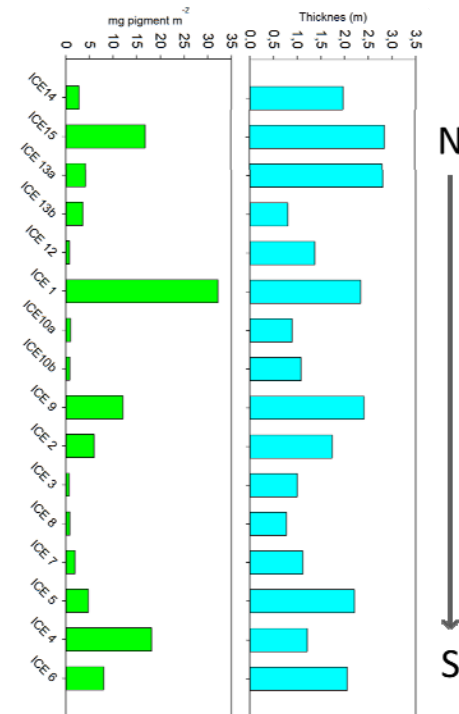


Snow types (snow pits) and snow to ice transformation



Snow: 13 ± 7 cm (range 0 - 23 cm)
Superimposed ice: 11 ± 11 cm (0 - 35 cm)
Snow-ice: 22 ± 22 cm (0 - 93 cm)

Chl a (ice cores)



- Ice & snow thickness, snow and ice texture, and biological properties observed in Feb/Mar 2019 (just north of iceberg A68)
- Very thick ice (3-4 m) and thin snow, little changed over past decade
- Metamorphic snow and superimposed ice important for ice mass balance, ocean freshwater, and remote sensing
- High sea ice algae standing stocks, no clear latitudinal gradients