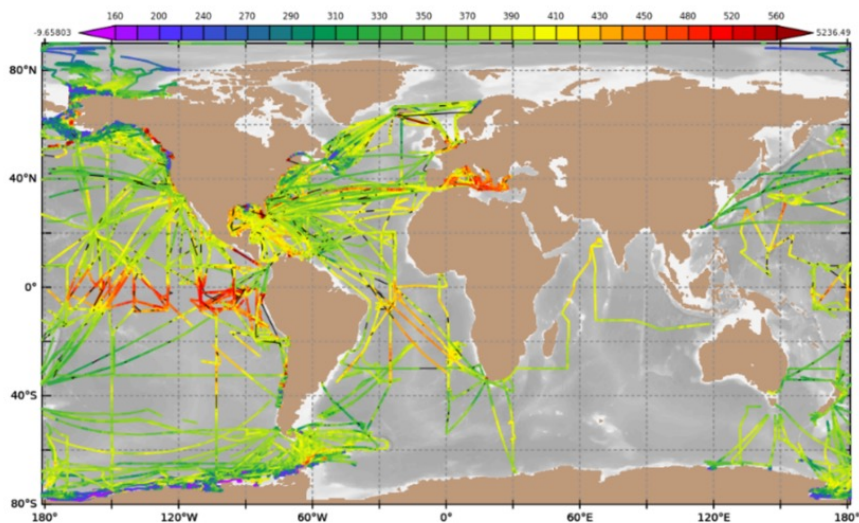


Largest Network of Surface $p\text{CO}_2$ data In the world.

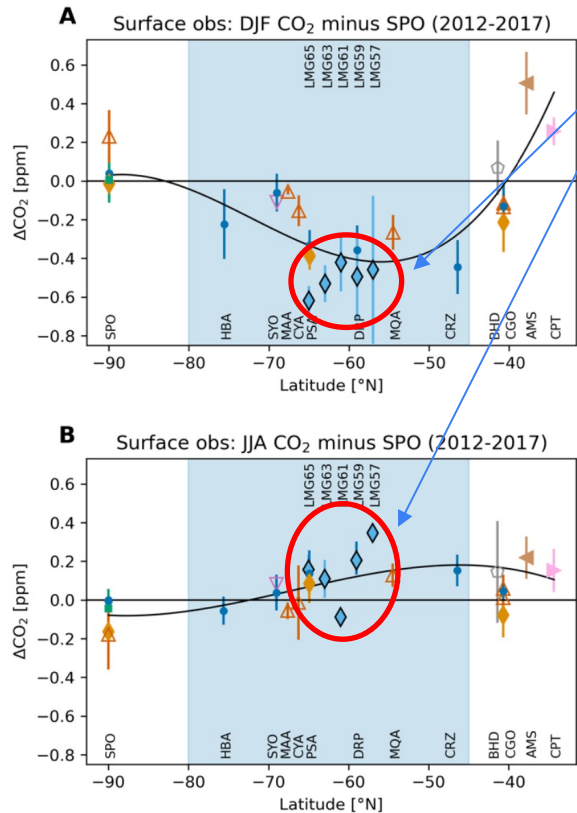
FY 2021
HIGHLIGHTS



- ~ 8.8 M data points since 2005. Represents $\frac{1}{4}$ of world wide data.
- 2020 and 2021 had a 40% data loss compared to previous years
- Contributes to the GCB-2021 estimate of the still increasing Ocean sink of 2.8 ± 0.4 GtC/year.

Atmospheric measurements from ships used in atmospheric studies

FY 2021
HIGHLIGHTS



- Measurements from ships quality comparable to Surface Monitoring Stations and Aircraft Campaigns.
- Ship measurements from the *ARSV Laurence M. Gould*, funded by GOMO.
- Ship-based measurements extend back to 2005 and are utilized due to extensive temporal coverage.
- This analysis estimates a net uptake of CO₂ south of 45°S. Consistent with ship-based estimates but stronger than recent estimates based on profiling-float observations.

From Long, M., et al. (2021), Strong Southern Ocean Carbon Uptake Evident in Airborne Observations, *Science*.