

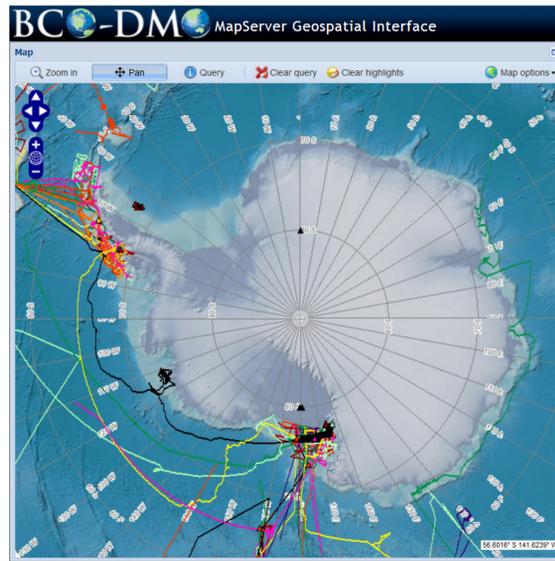
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## INTRODUCTION

The diverse and unique marine ecosystems found in the Southern Ocean are being exposed to rapid environmental changes. Access to research data from the region is critical to gain new insights and support greater understanding of the changes taking place in the region and their impact. Data from decades of U.S. National Science Foundation funded Southern Ocean research programs are available from the Biological and Chemical Oceanography Data Management Office (BCO-DMO). Individual researchers, small research teams and large coordinated programs have contributed data including the full range of in situ measurements, experimental laboratory results, synthesis products and model output. Data from the US Joint Global Ocean Flux Study (JGOFS) and the Southern Ocean GLOBal Ocean ECosystems Dynamics (GLOBEC) program are available along with results from in situ iron fertilization studies and more recently funded studies of productivity, biogeochemical cycling and marine food webs. The data are openly available and accompanied by sufficient documentation to support re-use.



bco-dmo.org



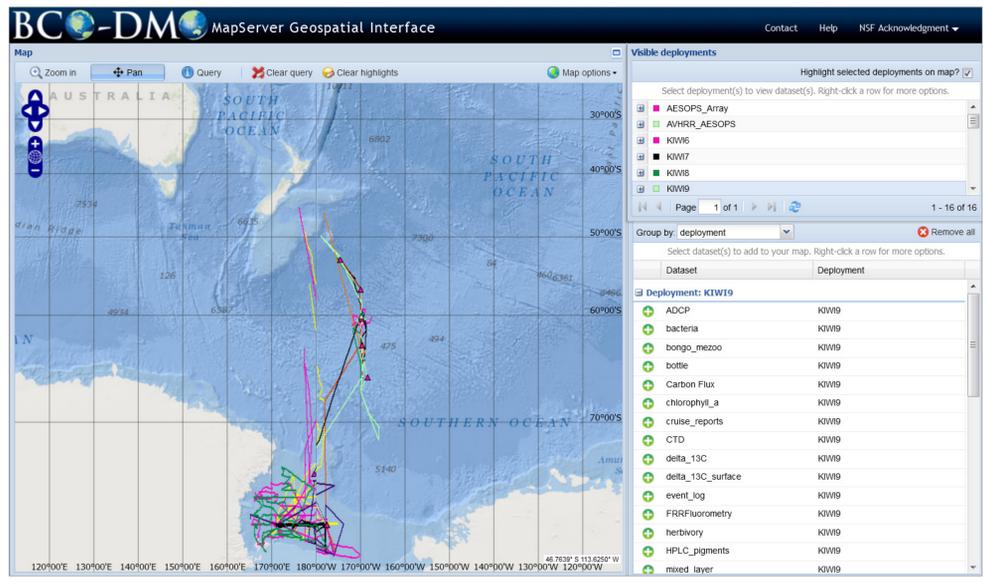
BCO-DMO has worked with US NSF funded investigators to build a community resource of ocean research data from cruises, laboratory experiments, synthesis and modelling efforts.

Additional documentation recorded for projects and cruises provides context for complex data.

## FEATURED SOUTHERN OCEAN RESEARCH PROJECT DATA

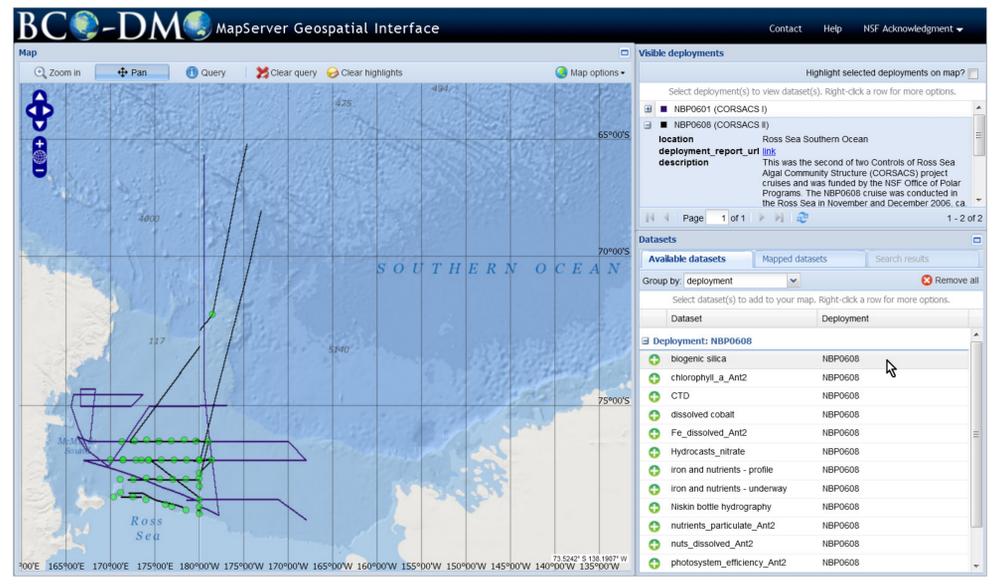
### US JGOFS Southern Ocean

317 data sets from 16 deployments contributed by US JGOFS PIs including the full range of ocean biogeochemistry measurements.



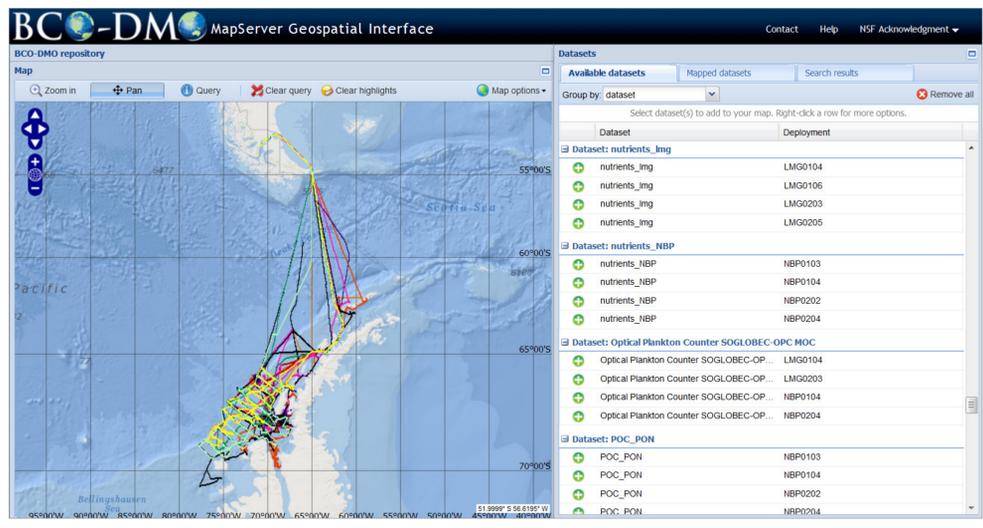
### Ross Sea CORSACS Project

28 marine biogeochemistry data sets contributed by the CORSACS project researchers from two cruises in the Ross Sea in 2005-2006.



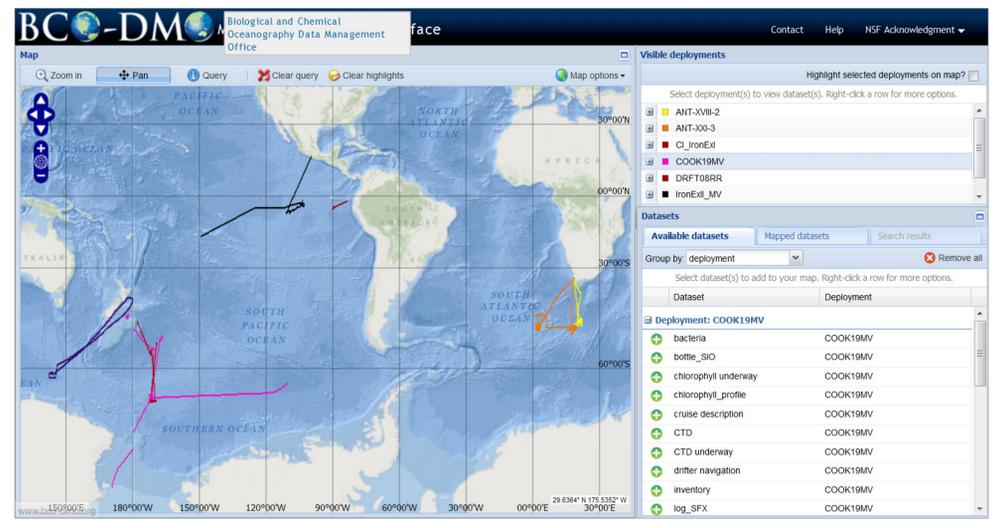
### Southern Ocean GLOBEC

263 data sets from 13 deployments contributed by US GLOBEC PIs including the full range of ocean biology & chemistry measurements.



### In situ Iron Fertilization Projects

Data sets of biogeochemistry measurements contributed by investigators from 10 separate natural and experimental iron fertilization projects.



#### ACKNOWLEDGEMENTS

This work has been supported by NSF awards OCE-0947822, OCE-1031253 and OCE-1435578. We acknowledge the work done by the investigators who contribute data to BCO-DMO and the data managers who work to make those data available. Julie Allen and Katherine Joyce (WHOI) helped develop the BCO-DMO data system user interfaces and the map interface was developed in collaboration with Charlton Galvarino (Second Creek Consulting, LLC).

#### WANT TO CONTRIBUTE DATA TO BCO-DMO?

No cost for investigators funded by NSF OCE or PLR  
Simply send an email to: [info@bco-dmo.org](mailto:info@bco-dmo.org)

