



## Winter AMLR Oceanographic Survey

Weekly Report Number 4

September 9-17, 2014

### US AMLR Completes 3<sup>rd</sup> Consecutive Winter Field Campaign

The fourth week of the survey concentrated survey effort on the Joinville Island Area and the transit out of the survey area. Conditions deteriorated during this week, with higher winds across the area. However, we were protected from any swells owing to our sampling locations. Because of the lack of ice we were able to transit south farther than we normally sample during summer. We were also able to sample the shelf on the Antarctic Peninsula and by the end of the week, we had sampled the entire AMLR grid. Ice conditions continue to be very mild, and only pancake or slush ice has been seen in any quantity.

24 stations were sampled in the Joinville Area, and an additional nine stations were sampled on the southern Elephant Island (EI) Area during this week. Larval and juvenile krill were abundant in this region, and *Thysanoessa macrura* declined in relative importance.

Acoustic biomass estimates for this area were low and comparable to the values seen around the West shelf and the northern Elephant Island region. Integrated chlorophyll-a (100m) averaged about  $10 \mu\text{g m}^2$  in the EI Area, less than the amount on the northern Elephant Island region, and similar to the amount of chlorophyll-a in the South Area.

We ended sampling on the 15<sup>th</sup> of September, completing several Drake Passage stations north of Elephant Island. We arrived to Punta Arenas late afternoon of the 17<sup>th</sup> of September, and disembarked all gear on the 18<sup>th</sup>.

This concludes the US AMLR Program's Winter 2014 Antarctic survey.

*Submitted by C. Reiss, Chief Scientist, on behalf of the AMLR researchers aboard the RVIB Palmer.  
Photos provided by AERD researcher Jen Walsh.*

