

Twisted Transformation – circulation and interaction of water masses in the Weddell Sea

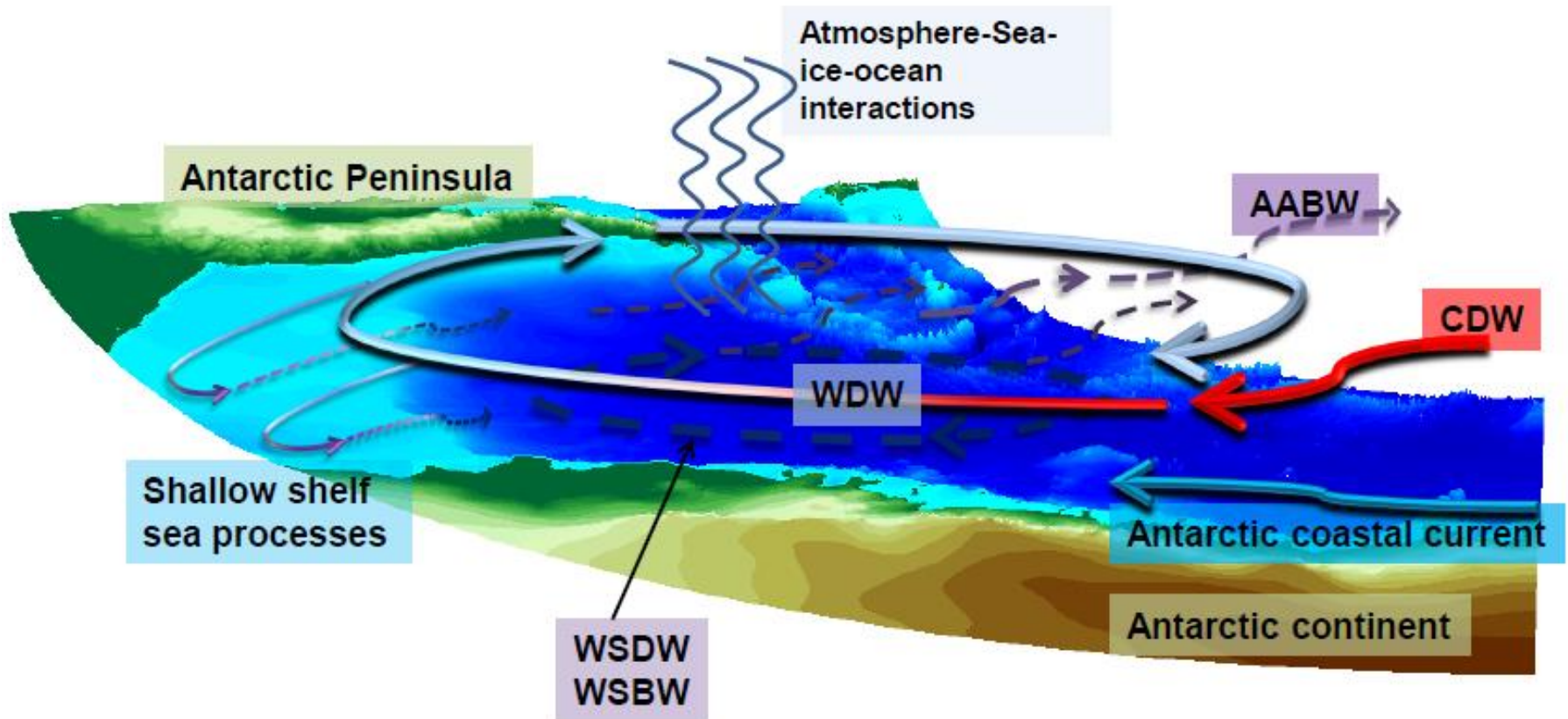
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[K. A. Reeve, O. Boebel, T. Kanzow, V. Strass, G. Rohardt, and E. Fahrbach†.
A gridded data set of upper-ocean hydrographic properties in the Weddell Gyre obtained by objective mapping of Argo float measurements.
 Earth Syst. Sci. Data, 8, 15–40, 2016. doi:10.5194/essd-8-15-2016]

Outline (recent results from AWI long-term observations):

- 1. Inflow of CDW/WDW into and circulation with the Weddell gyre deduced from objective mapping of float data*
- 2. Multi-decadal changes of thermohaline properties in the Weddell interior determined on basis of repeat CTD stations*
- 3. Long-term variations in temperature and velocity in the Weddell outflow regime on the northwestern continental slope derived from mooring records.*