

ICTP ASO, May 2007

Lynne Talley
Scripps Institution of Oceanography
UCSD

Some online resources:

1. Scripps Inst. Oceanography course: Introduction to Physical Oceanography
<http://www-pord.ucsd.edu/~ltalley/sio210>
Includes online notes, lectures, study questions, and link to draft textbook (Emery, Talley and Pickard). Text is to be published in fall 2007.
2. WOCE Hydrographic Programme atlases for Pacific and Indian (Talley), link to Southern Ocean (Orsi), eventually Atlantic (Koltermann)
http://www-pord.ucsd.edu/whp_atlas
3. Intergovernmental Panel on Climate Change (IPCC)
<http://www.ipcc.ch>

Major publications used in the presentations:

- Ganachaud, A. 2003: Large-scale mass transports, water mass formation, and diffusivities estimated from World Ocean Circulation Experiment (WOCE) hydrographic data. *J. Geophys. Res.*, **108** (C7), 3213, doi:10.1029/2002JC001565
- _____ and C. Wunsch, 2000: Improved estimates of global ocean circulation, heat transport and mixing from hydrographic data. *Nature*, **408**, 453-456.
- _____ and C. Wunsch, 2003: Large-scale ocean heat and freshwater transports during the World Ocean Circulation Experiment. *J. Clim.*, **16**, 696-705.
- Reid, J. L., 1994: On the total geostrophic circulation of the North Atlantic Ocean: Flow patterns, tracers and transports. *Progr. Oceanogr.*, **33**, 1-92.
- _____, 1997: On the total geostrophic circulation of the Pacific Ocean. Flow patterns, tracers and transports. *Progr. Oceanogr.*, **39**, 263-352.
- _____, 2003: On the total geostrophic circulation of the Indian Ocean. Flow patterns, tracers and transports. *Progr. Oceanogr.*, **56**, 137-186.
- _____, 2005. On the world-wide circulation of the deep water from the North Atlantic Ocean. *J. Mar. Res.*, **63**, 187-201.
- Schmitz, W. J., 1995: On the interbasin-scale thermohaline circulation. *Rev. Geophys.*, **33**, 151-173.
- Talley, L. D., 2003: Shallow, intermediate and deep overturning components of the global heat budget. *J. Phys. Oceanogr.*, **33**, 530-560.
- Talley, L. D., J. L. Reid and P. E. Robbins, 2003b: Data-based meridional overturning streamfunctions for the global ocean. *J. Climate*, **16**, 3213-3226.
- Talley, L. D. and J. L. Reid, 2007. Freshwater transports for the global ocean. Submitted to *Progr. Oceanogr.*