

SURVOSTRAL références (1997 – 2007)

1. Aoki, S., S. R. Rintoul, H. Hasumoto, and H. Kinoshita, 2006. Frontal positions and mixed layer evolution in the seasonal ice zone along 140°E line in 2001/02. *Polar Bioscience*, 20, 1-20.
2. Boyd, P W, A Watson, C S Law, E Abraham, T Trull, R Murdoch, D C E Bakker, A Bowie, M Charette, P Croot, K Downing, R Frew, M Gall, M Hadfield, J Hall, M Harvey, G Jameson, J La Roche, M Liddicoat, R. L., M. Maldonado, R M McKay, S Nodder, S Pickmere, R Pridmore, S. R. Rintoul, K Safi, P Sutton, R Strzepek, K Tanneberger, S Turner, A Waite, and J Zeldis, 2000. A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization, *Nature*, 407, 695--702.
3. Breviere E, N Metzl, A Poisson and B Tilbrook (2006) Changes of the oceanic CO₂ sink in the Eastern Indian sector of the Southern Ocean. *Tellus*, 58B, 438–446.
4. Budillon, G. and S. R. Rintoul, 2003. Fronts and upper ocean thermal variability south of New Zealand. *Antarctic Science*, 15(1): 141-152.
5. Cardinal, D., Alleman, L.Y., Dehairs, F., Savoye, N., Trull, T.W. André, L., 2005. Relevance of silicon isotopes to Si-nutrient utilization and Si-source assessment in Antarctic Waters. *Global Biogeochemical Cycles* 19(doi:10.1029/2004GB002364).
6. Cardinal, D.B., Savoye, N., Trull, T.W., André, L., Kopczynska, E.E. Dehairs, F., 2004. Variations of carbon remineralization in the Southern Ocean illustrated by the Baxs proxy. *Deep-Sea Research I* 52, 355-370.
7. Cassar, N., M. L. Bender, B. A. Barnett, S. Fan, W. J. Moxim, H. Levy II, B. Tilbrook (2007) The Southern Ocean Biological Response to Aeolian Iron Deposition, *Science* 317, 1067 - 1070.
8. Chaigneau A, Morrow R, 2002. Surface temperature and salinity variations between Tasmania and Antarctica, 1993-1999. *Journal of Geophysical Research – Oceans*, 107 (C12): Art. No. 8020.
9. Chaigneau, A., R. M. Morrow, and S. R. Rintoul, 2004. Seasonal and interannual evolution of the mixed layer in the Antarctic Zone south of Tasmania. *Deep-Sea Research I*, 51/12, 2047-2072.
10. Cubillos JC, SW Wright, G Nash , MF de Salas, B Griffiths, B Tilbrook, A Poisson, GM Hallegraeff (2007) Distribution of calcification morphotypes of the coccolithophorid *Emiliana huxleyi* in the Australian sector of the Southern Ocean: changes in 2001-2006 compared to historic data. *Marine Ecology Progress Series*, in press.
11. Le Traon, P.-Y., and R.A. Morrow, 2000. "Ocean eddies and currents". In, *Satellite Altimetry and Earth Sciences*, Eds L.L. Fu and A. Cazenave, Academic Press.
12. Morrow R. A, F. Birol, D. Griffin and J. Sudre, 2005. Divergent pathways of cyclonic and anti-cyclonic ocean eddies, *Geophys. Res. Lett.*, 31, L24311, doi:10.1029/2004GL020974.
13. Morrow, R., Valladeau, G., and Sallee, J. (2007). Observed subsurface signature of Southern Ocean decadal sea level rise. *Prog. Oceanogr.* (in press).
14. Morrow R, Brut A, Chaigneau A, 2003. Seasonal and interannual variations of the upper ocean energetics between Tasmania and Antarctica. *Deep-Sea Research I*, 50, 339-356.
15. Morrow, R. M., J.-R. Donguy, A. Chaigneau and S. R. Rintoul, 2004. Cold-core anomalies at the Subantarctic Front, south of Tasmania. *Deep-Sea Research I*, 51, 1417-1440.
16. Rintoul, S. R., J.-R. Donguy and D. Roemmich, 1997. Seasonal evolution of upper ocean thermal structure between Tasmania and Antarctica. *Deep-Sea Research* 44, 1185-1202.
17. Rintoul, S. R., 2000. Southern Ocean currents and climate. *Papers and proceedings of the Royal Society of Tasmania*, 133, 41-50.

18. Rintoul, S. R., C. Hughes and D. Olbers, 2001. The Antarctic Circumpolar System. In: *Ocean Circulation and Climate*, G. Siedler, J. Church, and J. Gould, (Eds.), Academic Press, 271-302.
19. Rintoul, S. R., J. Church, E. Farhbach, M. Garcia, A. Gordon, B. King, R. Morrow, A. Orsi, and K. Speer, 2002: Monitoring and understanding Southern Ocean variability and its impact on climate: A strategy for sustained observations. In: *Observing the Ocean in the 21st Century*, C. J. Koblinsky and N. R. Smith (Eds.), Bureau of Meteorology, Melbourne, Australia, pp. 486-508.
20. Rintoul, S. R. and T. W. Trull, 2002. Seasonal evolution of the mixed layer in the Subantarctic Zone south of Australia. *Journal of Geophysical Research*, 106, 31,447-31,460.
21. Rintoul, S. R., S. Sokolov, and J. Church, 2002. A six year record of baroclinic transport variability of the Antarctic Circumpolar Current at 140°E, derived from XBT and altimeter measurements. *Journal of Geophysical Research – Oceans*, 107 (C10): art.no. 3155.
22. Rintoul, S. R., 2006. Antarctic Circumpolar Current. In: *Encyclopedia of the Antarctic*, Routledge, New York, pp. 234-239.
23. Rintoul, S. R., 2007. The Role of the Southern Ocean in Past, Present and Future Climate: A Strategy for the International Polar Year. *Indian Journal of Marine Science*, special issue on the International Polar Year, submitted.
24. Rintoul, S. R. 2007. Antarctic Circumpolar Current. In: *Encyclopedia of Ocean Sciences* (JH Steele, SA Thorpe and KK Turekian, eds.), Elsevier, Oxford.
25. Sallee, J.B. K. Speer and R.A. Morrow, 2007. Response of the Antarctic Circumpolar Current to Atmospheric Variability, *J. Climate* (in press).
26. Sallee JB, Wienders N, Speer K, Morrow R, 2006. Formation of subantarctic mode water in the southeastern Indian Ocean, *OCEAN DYNAMICS* 56 (5-6): 525-542.
27. Savoye, N., Dehairs, F., Elskens, M., Cardinal, D., Kopczyńska, E.E., Trull, T.W., Wright, S., Baeyens, W. Griffiths, F.B., 2004. Regional variation of spring N-uptake and new production in the Southern Ocean. *Geophysical Research Letters* 31, L03301, doi:10.1029/2003GL018946.
28. Sokolov, S. and S. R. Rintoul, 2002: The structure of Southern Ocean fronts at 140E. *Journal of Marine Systems*, 37, 151-184.
29. Sokolov, S. and S. R. Rintoul, 2003: The subsurface structure of interannual temperature anomalies in the Australian sector of the Southern Ocean. *Journal of Geophysical Research - Oceans*, 108 (C9): Art. No. 3285.
30. Sokolov, S. and S. R. Rintoul, 2007. Multiple jets of the Antarctic Circumpolar Current south of Australia. *Journal of Physical Oceanography*, 37, 1394-1412.
31. Sokolov, S., S. R. Rintoul and B. Wienecke, 2006. Tracking the Polar Front south of New Zealand with penguin dive data. *Deep-Sea Research I*, 53, 591-607.
32. Takahashi, T, SC Sutherland, C Sweeney, A Poisson, N Metzl, B Tillbrook, N Bates, R Wanninkhof, RA Feely, C Sabine, J Olafsson, and Y Nojiri (2002). Global sea-air CO₂ flux based on climatological surface ocean pCO₂, and seasonal biological and temperature effects, *Deep-Sea Res. II*, 49, 1601-1622.
33. Trull, T., S. R. Rintoul, M. Hadfield, and E. R. Abraham, 2001. Circulation and seasonal evolution of polar waters south of Australia: Implications for iron fertilization of the Southern Ocean. *Deep-Sea Research II*, 48, 2439-2466.
34. Trull, T.W., Bray, S.G., Manganini, S.J., Honjo, S. François, R., 2001. Moored sediment trap measurements of carbon export in the Subantarctic and Polar Frontal Zones of the Southern Ocean, south of Australia. *Journal of Geophysical Research* 106(C12), 31489-31510.
35. Trull, T.W., Rintoul, S.R., Hadfield, M. Abraham, E.R., 2001. Circulation and seasonal evolution of Polar waters south of Australia: Implications for iron fertilisation of the

Southern Ocean. Deep Sea
Research II 48(11/12), 2439-2466.

Theses:

Brévière, E., "Variabilités temporelles des flux de CO₂ à l'interface air-mer dans l'océan Indien et Austral au sud de la Tasmanie". PhD Thesis, Université Paris VI, Discipline : Oceanography. Octobre 2005.

Brut, Aurore, LEGOS. Etude de la variabilité saisonnière et interannuelle du courant circumpolaire antarctique au sud de l'Australie, Masters Thesis « Océan, Atmosphère, Biosphère », Univ. Toulouse III. June 1999.

Cancet, M., Observation de la salinité de surface dans l'océan austral, en préparation du programme satellitaire SMOS (Soil Moisture Ocean Salinity). Masters Thesis « Dynamique des Fluides, Energétique et Transferts », Univ Toulouse III. July 2007.

Chaigneau, Alexis. Variabilité de la température et salinité de surface à la traversée du courant Circumpolaire Antarctique au sud de l'Australie. Masters Thesis « Océan, Atmosphère, Biosphère », Univ. Toulouse III. June 2000.

Chaigneau, Alexis. Variabilité de la couche superficielle de l'océan austral entre la Tasmanie et l'Antarctique. PhD Thesis. Université Toulouse III, Discipline : Océanographie Physique. November 2003.

Hatfield, B. An Analysis of bathythermograph data from the Southern Ocean. Honours, University of Tasmania, 1994.

Sallee, J.-B., Circulation des eaux modales Subantarctiques dans l'océan austral, PhD Thesis, Université Toulouse III, Discipline : Océanographie Physique. November 2007.