

Antarctica New Zealand Science Update (38) December 2008

1. **Oden Update:** Antarctica New Zealand has decided not to pursue the Feb 2010 Ross Sea marine science cruise using the ODEN until we can ensure we have a high quality science programme and preferably a US/NZ marine science collaboration in place. We are also investigating reprioritisation of our 2009/10 and 2010/11 baseline budgets to ascertain if we can make savings or refocus science support to facilitate a voyage in Feb 2011. We hope to call for expressions of science interest in our 2009 science bidding process and build a stronger case for a US/NZ marine science partnership over 2009.
2. **Ed is currently at Scott Base** as the Senior Antarctica New Representative and is meeting with many events as they come and go from the Base. The season appears to be going well with some great results coming in. January will be a busy month with 6 events heading to the Darwin Glacier region for the Latitudinal Gradient Project and a large IPY event going into the Miers/Garwood Valleys.
3. **The latest APECS newsletter** (Association of Polar Early Career Scientists) can be downloaded from: http://arcticportal.org/apecs/documents/apecs_december_newsletter.pdf
4. **The SCAR Bulletin 168**, which contains reports on Policy Advice to the ATCM, CEP and CCAMLR can be found at: <http://www.scar.org/publications/bulletins/>

Reminders:

5. Applications for the **Antarctic Postgraduate Scholarships** are due by **March 6 2009**. For more information contact Shulamit or go to: <http://www.antarcticanz.govt.nz/research/1027>
6. **2009 Antarctica New Zealand conference** 1-3 July 2009 hosted by the University of Auckland. We'll send out further information on this event in the new year.
7. **IPY Oslo Science Conference 8-12 June 2010**. Go to: <http://www.ipy-osc.no/>
8. **SCAR Biology Symposium**, Sapporo, Japan. 27-31 July 2009. The deadline for abstract submission is currently **January 9th 2009**. Go to: <http://www.scarbiodiversitysymposium2009.jp/index.html>
9. **International Student Conference 2-5 October 2009** in Whitehorse, Yukon, Canada. See: <http://www.arcticportal.org/apecs/apecs-news/apecs-news/acuns--apecs-communities-of-change--building-an-ipy-legacy>

Publications submitted to Antarctica NZ this month:

Allan, W. Struthers, H. Lowe, D.C.

Methane carbon isotope effects caused by atomic chlorine in the marine boundary layer: Global model results compared with Southern Hemisphere measurements.

Journal of geophysical research 112: D04306 2007.

doi:10.1029/2006JD007369, 2007

Barrett, P.J.

A history of Antarctic cenozoic glaciation – view from the margin.

In: Antarctic climate evolution Florindo, F. Siegert, M. eds Amsterdam : Elsevier p. 33-83, 2008.

doi: 10.1016/S1571-9197(08)00003-7

Büdel, B. Bendix, J. Bicker, F.R. Green, T.G.A.

Dewfall as a water source frequently activates the endolithic cyanobacterial communities in the granites of Taylor Valley, Antarctica.

Journal of phycology 44: 1415-1424 2008.

doi: 10.1111/j.1529-8817.2008.00608.x

Danesi, S. Dubbini, M. Morelli, A. Vittuari, L. Bannister, S.

Joint geophysical observations of ice stream dynamics.

In: Geodetic and geophysical observations in Antarctica. Capra, A. Dietrich, R. (eds) Berlin : Springer-Verlag p. 281-298, 2008.

Farrell, R.L. Duncan, S.M. Blanchette, R.A. Held, B.W. Jurgens, J.E. Arendz, B.A.
Scientific evaluation of deterioration of historic huts of Ross Island Antarctica.

In: Historical polar bases - preservation and management. Barr, S. Chaplin, B. (eds) Oslo ICOMOS pp. 59-64, 2008.

Krol, M.C. Fokke Meirink, J. Bergamaschi, P. Mak, J.E. Lowe, D. Jöckel, P. Houweling, S. Röckmann, T.R.

What do 14CO measurements tell us about OH?

Atmospheric chemistry and physics discussions 7: 10405–10438 2007.

www.atmos-chem-phys-discuss.net/7/10405/2007/

Le Quéré, C. Rödenbeck, C. Buitenhuis, E.T. Conway, T.J. Langenfelds, R. Gomez, A. Labuschagne, C. Ramonet, M. Nakazawa, T. Metzl, N. Gillett, N. Heimann, M.

Saturation of the Southern Ocean CO₂ sink due to recent climate change.

Science 316(5832): 1735-1738 2007.

doi: 10.1126/science.1136188

McDonald, A.J.

Antarctic ozone depletion and polar stratospheric clouds.

Clean air and environmental quality 42(4): 30-35 2008.

Millar, C.D. Huynen, L. Subramanian, S. Mohandesan, E. Lambert, D.M.

New developments in ancient genomics.

Trends in ecology and evolution 23(7): 347-410 2008.

Robinson, N.

Heartbeat of the global ocean: Antarctic sea ice and the climate system.

New Zealand science teacher 118: 20-22 2008.

Speirs, J.C. McGowan, H.A. Neil, D.T.

Polar eolian sand transport: grain characteristics determined by an automated scanning electron microscope (QEMSCANHH).

Arctic, Antarctic and Alpine Research 40(4): 731-743 2008.

doi: 10.1657/1523-0430(07-029)[SPEIRS]2.0.CO;2

Thompson, R.L. Manning, A.C. Lowe, D.C. Weatherburn, D.C.

A ship-based methodology for high precision atmospheric oxygen measurements and its application in the Southern Ocean region.

Tellus B59(4): 643-653 2007.

doi: 10.1111/j.1600-0889.2007.00292.x

Thompson, R.L. Gloor, M. Manning, A.C. Lowe, D.C. Rödenbeck, C. Le Quéré, C.

Variability in atmospheric O₂ and CO₂ concentrations in the southern Pacific Ocean and their comparison with model estimates.

Journal of geophysical research 113: G02025 2008.

doi:10.1029/2007JG000554