

Antarctica New Zealand Science Update (39) January 2009

- 1. Publications:** We have been collecting information from many of you about the number of publications that have been produced from Antarctica NZ-supported work from 2003 to 2008. We intend to send this information to CEOs and Pro Vice Chancellors of relevant organisations as Antarctica NZ's high-level check on the output of the work we have supported. We acknowledge that there are a number of ways (other than publications) that the outputs from a research programme can be measured. However, the number of publications is a relatively inexpensive way of providing a high-level check on the performance of the work we have supported.
- 2. Antarctic Metadata Collection:** Ceisha continues in earnest with her work on identifying all the data that have been collected by scientists who have worked with the NZ Antarctic programme over the last 50 years. To date she has entered 480 records of collected data in to the Antarctic Master Directory (see: http://gcmd.nasa.gov/KeywordSearch/Home.do?Portal=amd_nz&MetadataType=0) – and has linked these to publications and actual data sources where possible. Through her investigations Ceisha has unearthed several data sets that have been stored privately and needed a secure and publicly accessible home – so all this work is a fantastic achievement towards securing the whereabouts of data that have been collected over the years, ensuring that they can be easily accessible in the future. On an international front, from being in the shadows in this area, NZ is now one of the leading nations in the logging of its Antarctic data. Many thanks to all of you who have helped Ceisha with this work.
- 3. Applications for the Antarctic Postgraduate Scholarships** are due by **March 6 2009**. These scholarships have been instrumental in bringing several students into Antarctic research and continuing the funding for others over the past 15 years. Do please invite and encourage appropriate students to apply for these awards. For more information contact Shulamit or go to: <http://www.antarcticanz.govt.nz/research/1027>
- 4. Organisation for the 2009 Antarctica New Zealand conference** from 1-3 July 2009 hosted by the University of Auckland is underway. The general format of the conference can be found at: <http://www.antarcticanz.govt.nz/article/6973.html#10429>. If anyone would like to use this opportunity to hold a meeting or workshop in conjunction with the conference – please contact Shulamit by return email. More details on the conference will be available shortly.
- 5. SCAR BIOLOGY TRAVEL AWARD:** An outcome of the VII SCAR Biology Symposium held in Christchurch in 1998 was the establishment of the SCAR Biology Student Travel Award Scheme, set up specifically to help NZ-registered postgraduate students attend the SCAR Biology symposia that are held every 4 years. The award is administered by a group of executors set up under the auspices of the Royal Society of NZ's Committee on Antarctic Science. The next of these symposia will be held in Sapporo, Japan 26-31 July 2009 and the successful recipients of this round of travel awards are: Dana Clark - University of Otago; Crystal Lenky - Gateway Antarctica, University of Canterbury; Angela McGaughran - Massey University. Congratulations to these students and we wish them well for their presentations in Sapporo.
- 6. 'Extraordinary Kiwis'** airs on Prime TV on Sunday 1st Feb 2009 at 8:30pm – including a feature on Dr Victoria Metcalf and her research at Scott Base during the 2007/2008 season.
- 7. The December edition of the SCAR Newsletter** is now available to view on the website at: <http://www.scar.org/news/newsletters/issues2008/dec08.html>.

8. **APECS January Newsletter** can be downloaded from:

http://arcticportal.org/uploads/vD/xx/vDxx5PZDdLwsW_Z270Gtzg/APECS-January-09-Newsletter.pdf

Publications Submitted to Ant NZ this Month

Cummings, V.

Update from IceCUBE.

Water and atmosphere 16(1): 4 2008.

Cummings, V.J.

Ice conditions structure marine communities.

New Zealand science teacher 118: 26-28 2008.

De Mazière, M. Vigouroux, C. Bernath, P.F. Baron, P. Blumenstock, T. Boone, C.D. Brogniez, C. Catoire, V. Coffey, M. Duchatelet, P. Griffith, D. Hannigan, J. Kasai, Y. Kramer, I. Jones, N. Mahieu, E. Manney, G.L. Piccolo, C. Randall, C. Robert, C. Senten, C. Strong, K. Taylor, J. Tétard, C. Walker, K.A. Wood, S. Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. Atmospheric chemistry and physics 8: 2421–2435 2008.

Dils, B. De Mazière, M. Müller, J.F. Blumenstock, T. Buchwitz, M. de Beek, R. Demoulin, P. Duchatelet, P. Fast, H. Frankenberg, C. Gloudemans, A. Griffith, D. Jones, N. Kerzenmacher, T. Kramer, I. Mahieu, E. Mellqvist, J. Mittermeier, R.L. Notholt, J. Rinsland, C.P. Schrijver, H. Smale, D. Strandberg, A. Straumel, A.G. Stremme, W. Strong, K. Sussmann, R. Taylor, J. van den Broek, M. Velazco, V. Wagner, T. Warneke, T. Wiacek, A. Wood, S.

Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH₄, CO₂ and N₂O.

Atmospheric chemistry and physics 6: 1953–1976 2006.

Godfrey, M.J.

2D and 3D Geophysical Imaging of Polygonal Patterned Ground in the McMurdo Dry Valley, Antarctica. MSc. Christchurch University of Canterbury, 2008.

Meadows, J.

Under the ice with Rod Budd.

Water and atmosphere 16(1): 27 2008.

Payan, S. Camy-Petret, C. Oelhaf, H. Wetzell, G. Maucher, G. Keim, C. Pirre, M. Huret, N. Engel, A. Volk, M.C. Kuellmann, H. Kuttippurath, J. Cortesi, U. Bianchini, G. Mencaraglia, F. Raspollini, P. Redaelli, G. Vigouroux, C. De Mazière, M. Mikuteit, S. Blumenstock, T. Velazco, V. Notholt, J. Mahieu, E. Duchatelet, P. Smale, D. Wood, S. Jones, N. Piccolo, C. Payne, V. Bracher, A. Glatthor, N. Stiller, G. Grunow, K. Jeseck, P. Tel, Y. Pfeilsticker, K. Butzl, A.

Validation and data characteristics of methane and nitrous oxide profiles observed by MIPAS and processed with Version 4.61 algorithm.

Atmospheric chemistry and physics discussions 7: 18043–18111 2007.

Proffitt, F. Cummings, V.J.

Sea ice effects on Ross Sea food webs.

Aquatic biodiversity and biosecurity update 26 2008.

Sutherland, D.L. Hawes, I.

Annual growth layers as proxies of past growth conditions for benthic microbial mats in a perennially ice-covered Antarctic lake.

FEMS microbiology ecology 67: 279-292 2008.

doi: 10.1111/j.1574-6941.2008.00621.x