University of Nebraska - Lincoln
DigitalCommons@University of Nebraska - Lincoln

ANDRILL Research and Publications | Antarctic Drilling Program

1-1-2010

Selection of ANDRILL Papers

Follow this and additional works at: http://digitalcommons.unl.edu/andrillrespub

Part of the Environmental Indicators and Impact Assessment Commons

"Selection of ANDRILL Papers" (2010). *ANDRILL Research and Publications.* Paper 12.
http://digitalcommons.unl.edu/andrillrespub/12

This Article is brought to you for free and open access by the Antarctic Drilling Program at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in ANDRILL Research and Publications by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Selection of ANDRILL Papers

last update: October 2010

---

1. Ardini F., F. Soggia, F. Rugi, R. Udisti, M. Grotti. Comparison of inductively coupled plasma spectrometry techniques for the direct determination of rare elements in digests from geological samples. *Anal. Chim. Acta*, 2010, 678, 18-25, doi: 10.1016/j.aca.2010.07.036.

2. Ardini F., F. Soggia, F. Rugi, R. Udisti, M. Grotti. Conversion of rare earth elements to molecular oxide ions in a dynamic reaction cell and consequences on their determination by inductively coupled plasma mass spectrometry. *J. Anal. At. Spectrom.*, 2010, 25, 1588-1597.

3. Atkins C., and Dunbar, G. Aeolian sediment flux on sea-ice in Southern McMurdo Sound (SMS), Antarctica. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.04.006.

4. Del Carlo, P., Panter, K.S., Bassett, K., Bracciali, L., Di Vincenzo, G., Rocchi, S. The upper lithostratigraphic unit of ANDRILL AND-2A core (Southern McMurdo Sound, Antarctica): local Pleistocene volcanic sources, paleoenvironmental implications and subsidence in the southern Victoria Land Basin. *Global and Planetary Change* 69 (2009) 142-161, doi:10.1016/j.gloplacha.2009.09.002.

5. Di Roberto, A., Pompilio, M., and Wilch, T., 2010. Late Miocene submarine volcanism in ANDRILL AND-1B drill core, Ross Embayment, Antarctica. *Geosphere*, doi: 10.1130/GES00537.1 vol. 6 no. 5, 524-536.

6. Di Vincenzo, G., Bracciali, L., Del Carlo, P., Panter, K., Rocchi, S. (2009). 40Ar-39Ar dating of volcanogenic products from the AND-2A core (ANDRILL Southern McMurdo Sound Project, Antarctica): correlations with the Erebus Volcanic Province and implications for the age model of the core. *Bull. Volcanol.*, 72:487–505. DOI 10.1007/s00445-009-0337-z.

7. Dunbar G., Bertler N., McKay R. Sediment flux through the McMurdo Ice Shelf in Windless Bight, Antarctica. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.05.007.

8. Florindo, F., Harwood, D., Levy, R., and SMS Project Science Team. ANDRILL's success during the 4th International Polar Year. *Scientific Drilling*, 6, doi:10.2204/iodp.sd.6.03.2008.

9. Florindo, F., Harwood, D.M., Levy, R.H., 2009. Introduction to "Cenozoic Antarctic glacial history". *Global and Planetary Change*, 69, v-vii.

10. Frank, T.D., Gui, Z., and the ANDRILL SMS Science Team (2010) Cryogenic origin for brine in the subsurface of southern McMurdo Sound, Antarctica. *Geology*, v. 38, p. 587-590.

11. Franke, D., Ehrmann, W., Neogene clay mineral assemblages in the AND-2A drill core (McMurdo Sound, Antarctica) and their implications for environmental change, *Palaeogeography, Palaeoclimatology, Palaeoecology* 286 (2010) 55-65.

12. Giorgetti, G., Talarico, F., Sandroni, S., and Zeoli, A. Provenance of Pleistocene sediments in ANDRILL AND-1B drillhole: clay and heavy mineral data. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.03.018.

13. Harwood, D., Florindo, F., Talarico, F., Levy, R., Kuhn, G., Naish, T., Niessen, F., Powell, R., Pyne, A., and Wilson, G. Antarctic Drilling Recovers Stratigraphic Records from the Continental Margin. *Eos*, 90, No. 11, doi:10.1029/2009EO110002, 2009.

14. Harwood, D., Florindo, F., Talarico, F., Levy, R. (Eds.). Studies from the ANDRILL, Southern McMurdo Sound Project, Antarctica. Initial Science Report on AND-2A. *Terra Antartica*, 15, 235 pp.

15. Horgan, H., Naish, T., Bannister, S., Balfour N., and Wilson, G. Seismic stratigraphy of the Plio-Pleistocene Ross Island flexural moat-fill: a prognosis for ANDRILL Program drilling beneath McMurdo-Ross Ice Shelf. *Global and Planetary Change*, Vol. 45 (1-3), 83-97, 2005.

16. Johnston L., Wilson G.S., Gorman A.R., Henrys S.A., Horgan H., Clark R., Naish T.R., Cenozoic basin evolution beneath the southern McMurdo Ice Shelf, Antarctica. *Global and Planetary Change* Vol. 62, 1-2, 2007.

17. Marcano, M.C., Mukasa, S., Lohmann, K.C., Stefano, C., Taviani, M., Andronikov, A. Chronostratigraphic and paleoenvironmental constraints derived from the 87Sr/86Sr signal of Miocene bivalves, Southern McMurdo Sound, Antarctica. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.05.001.

18. Marino F., G. Calzolai, S. Caporali, E. Castellano, M. Chiari, F. Lucarelli, V. Maggi, S. Nava, M. Sala, R. Udisti. PIXE and PIGE techniques for the analysis of Antarctic ice dust and continental sediments. *Nucl. Instrum. Methods Phys. Res. B*, 2008, 266, 2396-2400.

19. McKay, R., Browne, G., Carter, L., Cowan, E., Dunbar, G., Krissek, L., Naish, T., Powell, R., Reed, J., Talarico, F., and Wilch, T., (2009). The stratigraphic signature of the late Cenozoic Antarctic Ice Sheets in the Ross Embayment. *GSA Bulletin*, 121, 11/12, 1537- 1561, doi: 10.1130/B26540.1.

20. Monien, D., Kuhn, G., von Eynatten, H., and Talarico, F.M., (2010, in press) Geochemical provenance analysis of fine-grained sediment revealing Late Miocene to recent Paleo-Environmental changes in the Western Ross Sea, Antarctica: *Global and Planetary Change*, doi:10.1016/j.gloplacha.2010.05.001.

21. Monien, D. (2010) Rapid environmental changes in the Ross Sea embayment using a geochemical approach, PhD thesis, University of Bremen, Germany. Link for citation: http://elib.suub.uni-bremen.de/diss/docs/00012016.pdf

22. Morin, R., T. Williams, S. Henrys, D. Magens, F. Niessen and D. Hansaraj, Heat flow and hydrologic characteristics at the AND-1B borehole, ANDRILL McMurdo Ice Shelf Project, Antarctica. *Geosphere*, v. 6, no. 4, 370-378, doi: 10.1130/GES00512.1, 2010.

23. Naish, T., Powell, R., Levy, R., Florindo, F., Harwood, D., Kuhn, G., Niessen, F., Talarico, F., and Wilson, G. A Record of Antarctic Climate and Ice Sheet History Recovered. *Eos*, Vol. 88, No. 50, 11 December 2007.

24. Naish T., Powell R., Levy, R. (Eds.). Studies from the ANDRILL, McMurdo Ice Shelf Project, Antarctica - Initial Science Report on AND-1B. *Terra Antartica*, 14(3), 121-327, 2007.

25. Naish, T., et al. Obliquity-paced Pliocene West Antarctic ice sheet oscillations. *Nature* 458, 322-328 (19 March 2009), doi:10.1038/nature07867.

26. Naish. T. R., Powell, R.D., Barrett, P.J., R. Levy, Henrys, S. A., Wilson, G.S., Krissek, L.A., Niessen, F., Pompilio, M., Scherer, R., Talarico, F., Pyne A. and MIS Science Team, 2008. Late climate history of the Ross Embayment from the AND-1B drill Hole: Culmination of three decades of Antarctic margin drilling. In Cooper et al. (eds) - *Antarctica: A keystone in a*

Changing World - Proceedings of the 10th International Symposium of Antarctic Earth Sciences, The National Academies Press, Washington, DC. 71-82.

27. Pollard D. and DeConto, R.M. Modelling West Antarctic ice sheet growth and collapse through the past five million years. *Nature*, 458, 329-332 (19 March 2009), doi:10.1038/nature07809.

28. Sandroni S., Talarico F.M., (2010, in press). The record of Miocene climatic events in AND-2A drill core (Antarctica): insights from provenance analyses of basement clasts. *Global and Planetary Change*, doi:10.1016/j.gloplacha.2010.10.002.

29. Schiermeier, Q. Sediment cores reveal Antarctica's warmer past. *Nature*, 453, 13, 1 May 2008.

30. Speece, M.A., Levy, R.H., Harwood, D.M., Pekar, S.F., and Powell, R.D. New seismic methods to support sea-ice platform drilling. *Scientific Drilling*, 7, 40-43. doi:10.2204/iodp.sd.7.06.2009.

31. Talarico F.M., McKay R.M., Powell R.D., Sandroni S., Naish T., (accepted 05/06/2009). Late Cenozoic oscillations of Antarctic ice sheets revealed by provenance of basement clasts and grain detrital modes in ANDRILL core AND-1B. *Global and Planetary Change*.

32. Talarico F., and Sandroni S. Clast provenance and variability in ANDRILL (AND-1B) cores: implications for the Pliocene-Pleistocene paleoclimatic evolution in the Ross Embayement (Antarctica). *Global and Planetary Change*, doi:10.1016/j.gloplacha.2009.04.007.

33. Zattin M., Talarico F. and Sandroni S. (2010) - Integrated provenance and detrital thermochronology studies in the ANDRILL AND-2A drill core: Late Oligocene-Early Miocene exhumation of the Transantarctic Mountains (southern Victoria Land, Antarctica). *Terra Nova*, 22, 361-368.

34. Villa, G., Persico, D., Wise, S.W.Gadaleta, Calcareous nannofossil evidence for Marine Isotope Stage 31 (1 Ma) in the AND-1B Core, ANDRILL (Antarctica), *Global and Planetary Change*, doi: 10.1016/j.gloplacha.2009.12.003.

35. Warny, S., R.A. Askin, M.J. Hannah, B.A.R. Mohr, J.I. Raine, D.M. Harwood, F.Florindo, and SMS Science Team. Palynomorphs from sediment core reveal a sudden remarkably warm Antarctica during the Mid Miocene. *Geology*, 37, 10, 955–958, doi: 10.1130/G30139A.1.

36. Winter, D., Sjunneskog, C., Scherer, R., Maffioli, P., Harwood, D. (2010, in press), Diatombased correlation of early to mid-Pliocene drillcores from the southwestern Ross Sea, Antarctica, *Global and Planetary Change*, doi: 10.1016/j.gloplacha.2009.12.004.

37. Winter, D., Sjunneskog, C., and Harwood, D. (2010 in press). Early to mid-Pliocene environmentally constrained diatom assemblages from the AND-1B drillcore, McMurdo Sound, Antarctica. *Stratigraphy*, vol. 7, nos. 2-3.

38. Winter, D., Sjunneskog, C., Scherer, R., Maffioli, P., Riesselman, C., Harwood, D. (2010, in press) Pliocene-Pleistocene diatom biostratigraphy of nearshore Antarctica from the AND-1B drillcore, McMurdo Sound, *Global and Planetary Change*, doi: 10.1016/j.gloplacha.2010.04.004.

39. Witze, A. Polar research: School of rock. *Nature,* 446, 129-131 (8 March 2007), doi:10.1038/446129a.

40. Betterly, S.J., Speece, M.A., Levy, R.H., Harwood, D.M. and Henrys, S.A. 2007. A novel over-sea-ice seismic reflection survey in McMurdo Sound, Antarctica. *Terra Antartica*, v. 14(2), p.97-106.

41. Fielding, C.R., Harwood, D.M. Winter, D.M., Francis, J.E., 2010. Neogene stratigraphy of Taylor Valley, Transantarctic Mountains, Antarctica: Evidence for climate dynamism and a vegetated Early Pliocene coastline of McMurdo Sound..., *Global Planetary Change* (2010), doi:10.1016/j.gloplacha.2010.09.003

42. Naish, T.., Powell, R.D., Levy, R.H., Niessen, F., Kuhn, G., Florindo, F., Talarico, F., Wilson, G., Harwood, D.M., and the ANDRILL-MIS Science Team, 2007. Examining Antarctica, A geological record of the last 14 million years of Antarctric climate and tectonic history from the ANDRILL McMurdo Sound Project. *Geotimes*, October, 2007 52(10): 30-33.

43. Naish, T., Powell, R., Levy, R., Florindo, F., Harwood, D., Kuhn, G., Niessen, F., Talarico, F., and Wilson, G. A Record of Antarctic Climate and Ice Sheet History Recovered. *Eos*, Vol. 88, No. 50, 11 December 2007.

44. Scopelliti, G., Bellanca A., Neri. R. Petrography and carbonate isotope stratigraphy from MIS AND-1B core, Antarctica: evidence of the early Pliocene warming event. *Global and Planetary Change* (accepted 11/23/10) DOI: 10.1016/j.gloplacha.2010.11.006.