

DONALD D. BLANKENSHIP
RECENT PUBLICATIONS
CURRENTLY IN REVIEW AND IN PRESS
(Students and Postdoctoral Fellows Underlined)

- Blankenship, D.D., D.A. Young, W.B. Moore and J.C. Moore. Radar Imaging of Europa's Subsurface Properties and Processes: The View from Earth. In *EUROPA*, , edited by Pappalardo, R.T., W. B. McKinnon, and K. Khurana, The University of Arizona Press (in press).
- Carter, S.P., D.D. Blankenship, D.A. Young, and J.W. Holt. Identifying the sources and distribution of subglacial water in radar sounding data. *Journal of Glaciology* (in press).
- Chen, J.L., C.R. Wilson, and D. Blankenship. Satellite gravity measurements show accelerated Antarctic ice loss across the entire continent. *Nature Geoscience*, (in review).
- Jordan, T.A., F. Ferraccioli, D.G. Vaughan, J.W. Holt, H.F. Corr, D.D. Blankenship and T.M. Diehl. West Antarctic Rift System unveiled from aerogravity over the Pine Island Glacier Region. *GSA Bulletin*, (in review).

PUBLISHED PAPERS

(Students and Postdoctoral Fellows Underlined; 1,908 Career WoS Citations; h-index = 22)

- Carter, S. P., D. D. Blankenship, D. A. Young, M. E. Peters, J. W. Holt, and M. J. Siegert, Dynamic distributed drainage implied by the flow evolution of the 1996-1998 Adventure Trench subglacial outburst flood, *Earth and Planetary Science Letters*, vol. 283, doi:10.1016/j.epsl.2009.03.019, (2009).
- Joughin, I., S. Tulaczyk, J.L. Bamber, D. D. Blankenship, J. W. Holt, T. Scambos and D.G. Vaughan. Basal conditions for Pine Island and Thwaites Glaciers, West Antarctica determined using satellites and airborne data. *Journal of Glaciology*, vol. 55, no. 190, pp. 245-257, doi:10.3189/002214309788608705, (2009).
- Chen, J.L., C.R. Wilson, B.D. Tapley, D. Blankenship and D. Young. Antarctic regional ice loss rates from GRACE. *Earth and Planetary Science Letters*, vol. 266, p. 140-148, doi: 10.1016/j.epsl.2007.10.057 (2008). (Citations: 4)
- Diehl, T.M., J.W. Holt, D.D. Blankenship, D.A. Young, T Jordan and F. Ferraccioli. First airborne gravity results over the Thwaites Glacier catchment, West Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 9, Q04011, doi:10.1029/2007GC001878, (2008). (Citations: 1)
- Filina, I.Y., D.D. Blankenship, M. Thoma, V.V. Lukin, V.N. Masolov and M.K. Sen. New 3D bathymetry and sediment distribution in Lake Vostok: Implication for pre-glacial origin and numerical modeling of the internal processes within the lake. *Earth and Planetary Science Letters*, vol 276, pp.106-114, doi:10.1016/j.epsl.2008.09.012, (2008).
- Peters, L.E., S. Anandakrishnan, C.W. Holland, H.J. Horgan, D.D. Blankenship and D.G. Voigt. Seismic detection of a subglacial lake near the South Pole, Antarctic. *Geophysical Research Letters*, vol. 35, no.23, L23501, doi:10.1029/2008GL035704, (2008). (Citations: 1).
- Young, D. A., S. D. Kempf, D. D. Blankenship, J. W. Holt and D. L. Morse. New airborne laser altimetry over the Thwaites Glacier catchment, West Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 9, Q06006, doi:10.1029/2007GC001935 (2008).

- Carter, S.P., D.D. Blankenship, M.E. Peters, D.A. Young, J.W. Holt and D.L. Morse. Radar based Antarctic subglacial lake classification in Antarctica. *Geochemistry, Geophysics, Geosystems*, vol. 8, no. Q03016, 20p., doi:10.1029/2006GC001408 (2007). (Citations: 3)
- Golynsky, A., D. Blankenship, M. Chiappini, D. Damaske, F. Ferraccioli, C. Finn, D. Golynsky, A. Goncharov, T. Ishihara, S. Ivanov, W. Jokat, H. Rae Kim, M. König, V. Masolov, Y. Nogi, M. Sand, M. Studinger, and the ADMAP Working Group. New magnetic anomaly map of East Antarctica and surrounding region. In Cooper A., C. Raymond and the ISAES editorial team (ed's.), *Antarctica: A Keystone in a Changing World*, U.S. Geological Survey and The National Academies, USGS OFR-2007-1047, short research paper 050, 5p., doi:10.3133/OF2007-1047.srp050 (2007).
- Peters, M.E., D.D. Blankenship, S.P. Carter, S.D. Kempf, D.A. Young and J.W. Holt. Along-track focusing of airborne radar sounding data from West Antarctica for improving basal reflection analysis and layer detection. *IEEE Transactions on Geoscience and Remote Sensing*, vol. 45, no. 9, p. 2725-2736, doi:10.1109/TGRS.2007.897416 (2007). (Citations: 2)
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- Filina, I., V. Lukin, V. Masolov and D. Blankenship. Unconsolidated sediments at the bottom of Lake Vostok from seismic data. In Cooper A., C. Raymond and the ISAES editorial team (ed's.), *Antarctica: A Keystone in a Changing World*, U.S. Geological Survey and The National Academies, USGS OFR-2007-1047, short research paper 031, 5p., doi:10.3133/OF2007-1047.srp031 (2007). (Google citations: 1)
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- Filina, I., D.D. Blankenship, L. Roy, M. Sen, T. Richter and J. Holt. Inversion of airborne gravity data acquired over subglacial lakes in East Antarctica. In Futterer, D.K., D. Damaske, G. Kleinschmidt, H. Miller and F. Tessensohn, ed's. *Antarctica: Contributions to Global Earth Sciences*, Springer-Verlag, Berlin, Heidelberg and New York, p. 129-134 (2006). (Google citations: 3)
- Holt, J.W., D.D. Blankenship, D.L. Morse, D.A. Young, M.E. Peters, S.D. Kempf, T.G. Richter, D.G. Vaughan and H.F.J. Corr. New boundary conditions for the West Antarctic Ice Sheet: Subglacial topography beneath Thwaites and Smith glacier catchments. *Geophysical Research Letters*, vol.33, no. L09502, doi:10.1029/2005GL025561 (2006) (Citations: 18)
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