PUBLICATIONS (Peer-reviewed journals and book chapters) – E.D. Waddington

1. Waddington, E.D. and C.H. Chapman. 1974. Numerical seismograms for wave trapping structures near the core boundary. *Canadian Journal of Earth Sciences*, 11, 598-602.
2. Dunlop, D.J. and E.D. Waddington. 1975. The field dependence of thermoremanent magnetization in igneous rocks. *Earth and Planetary Science Letters*, 25, 11-25.
3. Waddington, E.D. and M.R. Dence. 1979. Skeleton Lake, Ontario - evidence for a paleozoic impact crater. *Canadian Journal of Earth Sciences*, 16, 256-263.
4. Paterson,W.S.B. and E.D. Waddington. 1984. Past precipitation rates derived from ice core measurements: methods and data analysis. *Reviews of Geophysics and Space Physics*, 22, 123-130.
5. Paterson, W.S.B., and E.D. Waddington. 1986. Estimated basal temperatures at Crete, Greenland, throughout a glacial cycle. *Cold Regions Science and Technology*, 12, 99-102.
6. Waddington, E.D., and R.T. Marriott. 1986. Ice divide migration at Blue Glacier, U.S.A. *Annals of Glaciology*, 8, 175-176.
7. Waddington, E.D., D.A. Fisher, R.M. Koerner, and W.S.B. Paterson. 1986. Flow near an ice divide: analysis problems and data requirements. *Annals of Glaciology*, 8, 171-174.
8. Waddington, E.D. 1986. Wave ogives. *Journal of Glaciology*, 32(112), 325-334.
9. Waddington, E.D. 1987. Geothermal heat flux beneath ice sheets. In *The physical basis of ice sheet modeling*, IAHS Publication No. 170, p. 217-226.
10. Clarke, G.K.C., D.A. Fisher, and E. D. Waddington. 1987. Wind pumping: a potentially significant heat source in ice sheets. In *The physical basis of ice sheet modeling*, IAHS Publication No. 170, 169-180.
11. Waddington, E.D. and G.K.C. Clarke. 1988. Stable isotope pattern predicted in surge-type glaciers. *Canadian Journal of Earth Sciences*, 25(5), 657-668.
12. Walker, J.C.F. and E.D. Waddington. 1988. Descent of glaciers: some early speculations on glacier flow and ice physics. *Journal of Glaciology*, 34(118), 342-348.
13. Johannesson, T., C.F. Raymond, and E.D. Waddington. 1989. A simple method for determining the response time of glaciers. in *Glacier fluctuations and climatic change*, J. Oerlemans (ed.), Kluwer Academic Publishers. p. 343-352.
14. Johannesson, T., C.F. Raymond, and E.D. Waddington. 1989. Time scale for adjustment of glaciers to changes in mass balance. *Journal of Glaciology*, 35(121), 355-369.
15. Firestone, John, Ed Waddington and James Cunningham. 1990. The potential for basal melting under Summit Greenland. *Journal of Glaciology*, 36(123), 163-168.

16. Cunningham, James, and E.D. Waddington. 1990. Boudinage: a source of stratigraphic disturbance in glacial ice in central Greenland. *Journal of Glaciology*, 36(124), 269-272.

17. Clarke, Garry K.C., and Edwin D. Waddington. 1991. A three-dimensional theory of wind pumping. *Journal of Glaciology*, 37(125), 89-96.

18. MacAyeal, D., J. Firestone and E.D. Waddington. 1991. Paleothermometry by control methods. *Journal of Glaciology*, 37(127), 326-338.

19. Schøtt, C., E.D. Waddington and C.F. Raymond. 1992. Predicted time-scales for GISP 2 and GRIP boreholes at Summit, Greenland. *Journal of Glaciology*, 38(128), 162-168.

20. Hallet, B. and E.D. Waddington. 1992. Buoyancy forces induced by freeze/thaw in the active layer: implications for diapirism and soil circulation. In *Periglacial Geomorphology: proceedings of the 22nd Binghamton geomorphology symposium*, J.C. Dixon and A.D. Abrahams, eds. Wiley, p. 251-280.

21. Alley, R.B., D.A. Meese, C.A. Shuman, A.J. Gow, K.C. Taylor, P.M. Grootes, J.W.C. White, M. Ram, E.D. Waddington, P.A. Mayewski, and G.A. Zielinski. 1993. Abrupt accumulation increase at the Younger Dryas termination in the GISP2 ice core. *Nature*, (362), 527-529.

22. Waddington E.D., D.L. Morse, P.M. Grootes, and E.J. Steig. 1993. The connection between ice dynamics and paleoclimate from ice cores: a study of Taylor Dome, Antarctica. *in* W.R. Peltier, ed., *Ice in the Climate System*. NATO ASI Series I, "Global Environmental Change" Vol. 12, p. 499-516. Springer Verlag, Berlin, 673p.

23. Cunningham, J. and E.D. Waddington. 1993. Air flow and dry deposition of non-seasalt sulfate in polar firn: paleoclimate implications. *Atmospheric Environment*, 27A(17/18), 2943-2956.

24. Taylor, K.C., C.U. Hammer, R.B. Alley, H.B. Clausen, D. Dahl-Jensen, A.J. Gow, N.S. Gundestrup, J. Kipfstuhl, J.C. Moore, and E.D. Waddington. 1993. Electrical conductivity measurements from the GISP2 and GRIP Greenland ice cores. *Nature*, 366, 549-552.

25. Anandakrishnan, S., R.B. Alley, and E.D. Waddington. 1994. Sensitivity of the ice-divide position in Greenland to climate change. *Geophysical Research Letters*, 21(6), 441-444.

26. Waddington, E.D. and D.L. Morse. 1994. Spatial variations of local climate at Taylor Dome, Antarctica: implications for paleoclimate from ice cores. *Annals of Glaciology*, 20, 219-225.

27. Morse, D.L., and E.D. Waddington. 1994. Recent survey of McMurdo Ice Shelf brine infiltration. *Annals of Glaciology*, 20, 215-218.

28. Meese, D.A., A.J. Gow, P. Grootes, P.A. Mayewski, M. Ram, M. Stuiver, K.C. Taylor, E.D. Waddington, and G.A. Zielinski. 1994. The accumulation record

from the GISP2 core as an indicator of climate change throughout the Holocene. *Science*, 266(5191), 1680-1682.

29. Cutler, N.N., C.F. Raymond, E.D. Waddington, D.A. Meese and R.B. Alley. 1995. The effect of ice sheet thickness change on the accumulation history inferred from GISP2 layer thicknesses. *Annals of Glaciology*, 21, 26-32.

30. Bolzan, J.F, E.D. Waddington, R.B. Alley, and D.A. Meese. 1995. Constraints on Holocene ice thickness changes in central Greenland from the GISP2 ice core data. *Annals of Glaciology*, 21, 33-39.

31. Cuffey, K.M., G.D. Clow, R.B. Alley, M. Stuiver, E.D. Waddington and R.W. Saltus. 1995. Large arctic temperature change at the Wisconsin-Holocene glacial transition. *Science*, 270(5235), 455-458.

32. Mayewski, P.A., M.S. Twickler, S.I. Whitlow, L.D. Meeker, Q. Yang, J. Thomas, K. Kreutz, P. Grootes, D. Morse, E. Steig, E. Waddington, E. Saltzman, P.-Y. Whung, and K. Taylor. 1996. Climate change during the last deglaciation in Antarctica. *Science,* 272(5268), 1636-1638.

33. Huybrechts, P., T. Payne, and EISMINT INTERCOMPARISON GROUP. 1996. The EISMINT benchmarks for testing ice sheet models. *Annals of Glaciology*, 23, 1-12.

34. Waddington, E.D. 1996. Where are we going? The ice core - paleoclimate inverse problem. In *Chemical Exchange between the Atmosphere and Polar Snow* E. Wolff and R. Bales, editors. NATO ASI Series I, "Global Environmental Change" Vol. 43, 629-640. Springer Verlag, Berlin. 675p.

35. Waddington, E.D., J. Cunningham and S.L. Harder. 1996. The effects of snow ventilation on chemical concentrations. In *Chemical Exchange between the Atmosphere and Polar Snow* E. Wolff and R. Bales, editors. NATO ASI Series I, "Global Environmental Change" Vol. 43, 403-451. Springer Verlag, Berlin. 675p.

36. Nereson, N.A., E.D. Waddington, C.F. Raymond and H.P. Jacobson. 1996. Predicted age-depth scales for Siple Dome and inland WAIS ice cores in West Antarctica. *Geophysical Research Letters,* 23(22), 3163-3166.

37. Clow, G.D., R.W. Saltus, and E.D. Waddington. 1996. A new, high-precision borehole temperature logging system used at GISP2, Greenland, and Taylor Dome, Antarctica. *Journal of Glaciology*, 42(142), 576-584.

38. Dahl-Jensen, D., N.S. Gundestrup, K.R. Keller, S.J. Johnsen, S.P Gogenini, H. Miller, S. Kipstuhl, and E.D. Waddington. 1997. A search in north Greenland for a new ice-core drill site. *Journal of Glaciology*, 43(144), 300-306.

39. Alley R.B., A.J. Gow, D. Meese, J. Fitzpatrick, E. Waddington and J.F. Bolzan. 1997. Grain-scale processes, folding and stratigraphic disturbance in the GISP2 ice core. *Journal of Geophysical Research*, 102(C12), 26,819-26,830.

40. Hvidberg, C.S., D. Dahl-Jensen, and E.D. Waddington. 1997. Ice flow between the GRIP and GISP2 bore holes in central Greenland. *Journal of Geophysical Research*, 102(C12), 26,851-26,859.

41. Nereson, N.A., C.F. Raymond, E.D. Waddington and R.W. Jacobel. 1998. Migration of the Siple Dome ice divide, West Antarctica. *Journal of Glaciology*, 44(148) 643-652.

42. Steig, E.J., D.L. Morse, E.D. Waddington and P.J. Polissar. 1998. Using the sunspot cycle to date ice cores. *Geophysical Research Letters*, 25(2), 163-166.

43. Morse, D. L., E.D. Waddington and E.J. Steig. 1998. Ice age storm trajectories inferred from radar stratigraphy at Taylor Dome, Antarctica. Geophysical Research Letters, 25(17), 3383-3386.

44. Steig, E.J., E.J. Brook, J.W.C. White, C.M. Sucher, M.L. Bender, S.J. Lehman, D.L. Morse, E.D. Waddington and G.D. Clow. 1998. Synchronous climate changes in Antarctica and the North Atlantic. *Science*, 282(5386), 92-95.

45. Conway, H., B.L. Hall, G.H. Denton, A.M. Gades, and E.D. Waddington. 1999. Past and future grounding-line retreat of the West Antarctic Ice Sheet. *Science*, 286(5438), 280-283.

46. Vaughan, D.G., H.F.J. Corr, C.S.M. Doake and E.D. Waddington. 1999. Distortion of isochronous layers in ice revealed by ground-penetrating radar. *Nature*, 398(6725), 323-326.

47. Thorsteinsson, Throstur, E.D. Waddington, K.C. Taylor, R.B. Alley and D.D. Blankenship. 1999. Strain rate enhancement at Dye 3, Greenland. *Journal of Glaciology*, 45(150), 338-345.

48. Morse, D.L., E.D. Waddington, H-P. Marshall, T.A. Neumann, E.J. Steig, J.E. Dibb, D.P. Winebrenner and R.J. Arthern. 1999. Accumulation rate measurements at Taylor Dome, East Antarctica: techniques and strategies for mass balance measurements in polar environments. *Annaler Geografiska*, 81A(4), 683-694.

49. Arthern, R.J., D.P. Winebrenner, and E.D. Waddington. 2000. Densification of water ice deposits on the residual north polar cap of Mars. *Icarus*, 144, 367-381.

50. Steig, E.J., D.L. Morse, E.D. Waddington, M. Stuiver, P.M. Grootes, P.A. Mayewski, S.I. Whitlow and M.S. Twickler. 2000. Wisconsinan and Holocene climate history from an ice core at Taylor Dome, western Ross Embayment, Antarctica. *Annaler Geografiska*, 82A(2-3) 213-235.

51. Nereson, N.A., C.F. Raymond, R.W. Jacobel and E.D. Waddington. 2000. The accumulation pattern across Siple Dome, West Antarctica, inferred from radar-detected internal layers. *Journal of Glaciology*, 46(152), 75-87.

52. MacGregor, K.M., R.S. Anderson, S.P. Anderson and E.D. Waddington. 2000. Numerical simulation of glacial-valley longitudinal profile evolution. *Geology*, 28(11) 1,031-1,034.

53. Cuffey, K.M., T. Thorsteinsson and E.D. Waddington. 2000. A renewed argument for crystal size control of ice sheet strain rates. *Journal of Geophysical Research*, 105(B12), 27,889-27,894.

54. Naito, N., Y. Ageta, M. Nakawo, E.D. Waddington, C.F. Raymond, and H.B. Conway. 2001. Dynamic sensitivities of a summer-accumulation type glacier to

climate changes indicated with a glacier fluctuation model. *Bulletin of Glaciological Research* ,18, 1-8.

55. Rempel, A.W., E.D. Waddington, J.S. Wettlaufer and M.G. Worster. 2001. Possible displacement of the climate signal in ancient ice by premelting and anomalous diffusion. *Nature*, 411, 568-571.

56. Grootes, P.M., E.J. Steig, M. Stuiver, E.D. Waddington, D.L. Morse and M.-J. Nadeau. 2001. The Taylor Dome Antarctic $\delta^{18}O$ record and globally synchronous changes in climate. *Quaternary Research*, 56(3), 289-298.

57. Waddington, E.D., J.F. Bolzan and R.B. Alley. 2001. Potential for stratigraphic folding near ice sheet centers. *Journal of Glaciology*, 47(159), 639-648.

58. Nereson, N.A. and E.D. Waddington. 2002. Isochrones and isotherms beneath migrating ice divides. *Journal of Glaciology*, 48(160), 95-108.

59. Zumberge, M.A., D.H. Elsberg, W.D. Harrison, E. Husmann, J.L. Morack, E.C. Pettit and E.D. Waddington. 2002. Measurement of vertical velocity and strain at Siple Dome by optical sensors. *Journal of Glaciology*, 48(161), 217-225.

60. Rempel, A.W., J.S. Wettlauferr and E.D. Waddington. 2002. Anomalous diffusion of multiple impurity species: predicted implications for the ice-core climate records. *Journal of Geophysical Research*, 10.1029/2002JB001857, 06 December 2002.

61. Morse, D.L., D.D. Blankenship, E.D. Waddington and T.A. Neumann. 2002. A site for deep ice coring in West Antarctica: results from aerogeophysical surveys and thermo-kinematic modeling. *Annals of Glaciology*, 35, 36-44.

62. Waddington, E.D., E.J. Steig and T.A. Neumann. 2002. Using characteristic times to assess whether stable isotopes can be reversibly deposited. *Annals of Glaciology*, 35, 118-124.

63. Thorsteinsson, Throstur, and E.D. Waddington. 2002. Folding in strongly anisotropic layers near ice sheet centers. *Annals of Glaciology*, 35, 480-486.

64. Hawley, R.L., E.D. Waddington, D.L. Morse, N.W. Dunbar and G.A. Zielinski. 2002. Dating firn cores by vertical strain measurements. *Journal of Glaciology*, 48(162), 401-406.

65. Hawley, R.L., E.D. Waddington, R.B. Alley and K.C. Taylor. 2003. Annual layers in polar firn detected by borehole optical stratigraphy. *Geophysical Research Letters*, 30(15),1788. doi:10.1029/2003GL0176751.

66. Pettit, E.C., H.P. Jacobson and E.D. Waddington. 2003. Effects of basal sliding on isochrones and flow near an ice divide. *Annals of Glaciology*, 37, 370-376.

67. Thorsteinsson, T., E.D. Waddington and R.C. Fletcher. 2003. Spatial and temporal scales of anisotropic effects in ice-sheet flow. *Annals of Glaciology*, 37, 40-48.

68. Pettit, E.C. and E.D. Waddington. 2003. Ice flow at low deviatoric stress. *Journal of Glaciology,* 49(166), 359-369.

69. Anderson, R.L., S.P. Anderson, K.R. MacGregor, E.D. Waddington, S. O 'Neel, C.A. Riihimaki and M.G. Loso. 2004. Strong feedbacks between hydrology and

sliding of a small alpine glacier. *Journal of Geophysical Research*, 109(F3), F03005 doi: 10.1029/2004JF000120.

70. Jacobson, H.P. and E.D. Waddington. 2004. Recumbent folding in ice sheets: a core-referential study. *Journal of Glaciology*, 50(168), 3-16.

71. Neumann, T.A. and E.D. Waddington. 2004. Effects of firn ventilation on isotopic exchange. *Journal of Glaciology*, 50(169), 183-104.

72. Hawley, R.L., E.D. Waddington, G.W. Lamorey, and K.C. Taylor. 2004. Vertical-strain measurement in firn at Siple Dome, Antarctica. *Journal of Glaciology*. 50(170), 447-452.

73. Elsberg, D.H., W.D. Harrison, M.A. Zumberge, J.L. Morack, E.C. Pettit, E.D. Waddington and E. Husmann. 2004. Depth- and time-dependent vertical strain rates at Siple Dome, Antarctica. *Journal of Glaciology*, 50(171), 511-521.

74. Waddington, E.D, H. Conway, E.J. Steig, R.B. Alley, E.J. Brook, K.C. Taylor and J.W.C. White. 2005. Decoding the dipstick: thickness of Siple Dome, West Antarctica at the Last Glacial Maximum. *Geology*, 33(4), 281-284.

75. Neumann, T.A., E.D. Waddington, E.J. Steig, and P.M. Grootes. 2005. Non-climate influences on stable isotopes at Taylor Mouth, Antarctica. *Journal of Glaciology*, 51(173), 248-258.

76. Jacobson, H.P and E.D. Waddington. 2005. Recumbent folding of divide arches in response to unsteady ice divide migration. *Journal of Glaciology*, 51(173), 201-209.

77. Thorsteinsson, T., E.D. Waddington, K. Matsuoka, I. Howat, and S. Tulaczyk. 2005. Survey of flow, topography and ablation on NW-Mýrdalsjökull, S-Iceland. *Jökull* 55, 155-162.

78. McDaniel, S., K. Bennett, W.B. Durham, and E.D. Waddington. 2006. In situ deformation apparatus for time-of-flight neutron diffraction: Texture development of polycrystalline ice I-h. *Reviews of Scientific Instruments,* 77 (9). (Art. No. 093902, Sep 2006.)

79. Waddington, E.D. and C.S. Lingle. 2006. Dynamics of the East Antarctic Ice Sheet. *In* S. Elias, ed. *Encyclopedia of Quaternary Sciences*. Elsevier. 1305-1312.

80. Pettit, E.C., H.P. Jacobson, T. Thorsteinsson and E.D. Waddington. 2007. The role of crystal fabric in flow near an ice divide. *Journal of Glaciology* 53(181), 277-288.

81. Price, S.F., H. Conway, and E.D. Waddington. 2007. Evidence for late Pleistocene thinning of Siple Dome, West Antarctica. *Journal of Geophysical Research*, 112, F03021, doi:10.1029/2006JF000725.

82. Price, S.F., E.D. Waddington, and H. Conway. 2007. A full-stress thermomechanical flow band model using the finite volume method. *Journal of Geophysical Research*, 112, F03020, doi:10.1029/2006JF000724.

83. Morse, D.L., E.D. Waddington, and L.A. Rasmussen. 2007. Ice deformation in the vicinity of an ice-core site at Taylor Dome, Antarctica, and a derived accumulation-rate history, *Journal of Glaciology*, 53(182), 449-460.

84. Matsuoka, K., T. Thorsteinsson, H. Bjornsson, and E.D. Waddington. 2007. Radio-wave scattering from within temperate glacier ice, Myrdalsjökull, Iceland. *Journal of Glaciology*, 53(182), 473-478.

85. Waddington, E.D., T.A. Neumann, M.R. Koutnik, H.P. Marshall, and D.L. Morse. 2007. Inference of accumulation-rate patterns from deep layers in glaciers and ice sheets. *Journal of Glaciology* 53(183), 694-712.

86. Price, S.F., Conway, E.D. Waddington, and R. Bindschadler. 2008. Model investigations of inland migration of fast-moving outlet glaciers and ice streams. *Journal of Glaciology*. 54(184), 49-60.

87. Winebrenner, D.P., M.R. Koutnik, E.D. Waddington, A. Pathare, B. Murray, S. Byrne. 2008. Evidence for ice flow prior to trough formation in the Martian North Polar Layered Deposits. *Icarus* 195, 90-105.

88. Neumann, T.A., H. Conway, S.F. Price, E.D. Waddington, G.A. Catania, and D.L. Morse. 2008. Holocence accumulation and ice sheet dynamics in central West Antarctica. *Journal of Geophysical Research* 113, F02018, doi:10.1029/2007JF000764.

89. Town, M.S., E.D. Waddington, V.P. Walden, and S.G. Warren. 2008. Temperatures, heating rates and vapour pressures in near-surface snow at the South Pole. *Journal of Glaciology* 54(186), 487-498.

90. Howat, I.M., S. Tulaczyk, E.D. Waddington, and H. Bjornsson. 2008. Dynamic controls on glacier sliding inferred from surface motion. *Journal of Geophysical Research (Earth Surface Processes)*. 113, F03015, doi:10.1029/2007JF000925.

91. Town, M.S., S.G. Warren, V.P. Walden, and E.D. Waddington. 2008. Effects of atmospheric water vapour on modification of stable isotopes in near-surface polar snow. *Journal of Geophysical Research*. 113, D24303, doi:10.1029/2008JD009852.

92. MacGregor, K.M., R.S. Anderson, and E.D. Waddington. 2009. Numerical modeling of glacial erosion and headwall processes in alpine valleys. *Geomorphology*. 103(2), 189-204. doi: 10.1016/j.geomorph.2008.04.022

93. MacGregor, J.A., K. Matsuoka, M.R. Koutnik, E.D. Waddington, M. Studinger, and D.P. Winebrenner. 2009. Millennially averaged accumulation rates for the Lake Vostok region inferred from deep internal layers. *Annals of Glaciology* 50(51), 25-34.

94. Koutnik, M.R., E.D. Waddington, and D.P. Winebrenner. 2009. A method to infer past surface mass balance and topography from internal layers in martian polar layered deposits. *Icarus* 204(2), 458-470.

95. Steen-Larsen, H.C., M.R. Koutnik and E.D. Waddington. 2010. A Monte Carlo approach to inference of past accumulation-rate pattern from deep layers. *Journal of Glaciology*, 56(196), 318-332.

96. Waddington, E.D. 2010. Life, death, and afterlife of the extrusion flow theory. *Journal of Glaciology* 56(200), 973-996.

97. Pettit, E.C., E.D. Waddington, W. Harrison, T. Thorsteinsson, H.P. Jacobson, D. Elsberg, J. Morack, and M. Zumberge. 2011. The crossover stress, anisotropy, and the flow law at Siple Dome. *Journal of Glaciology*, 57(201), 39-52.

98. Hawley, R.L., and E.D. Waddington. 2011. In-situ measurements of firn compaction profiles using Borehole Optical Stratigraphy. *Journal of Glaciology*, 57(202), 289-294.

99. Campbell, A.J., E.D. Waddington, and S.G. Warren. 2011. Refugium for surface life on Snowball Earth in a nearly-enclosed sea? A first simple model for sea-glacier invasion. *Geophysical Research Letters* 38. doi:10.1029/2011GL048846.

100. Koutnik, M.R., and E.D. Waddington. 2012. A well-posed model of ice flow near an ice divide using a spatially limited domain. *Journal of Glaciology* 58(211), 1008-1020.

101. Headley, R., B. Hallet, G. Roe, and E.D. Waddington. 2012. Spatial distribution of erosion rates in the St. Elias range, Alaska, inferred from a realistic model of glacier dynamics. *Journal of Geophysical Research*, 117(F3), doi:10.1029/2011JF002291.

102. MacGregor, J.A., K. Matsuoka, E.D.Waddington, D.P.Winebrenner, and F. Pattyn. 2012. Spatial variation of englacial radar attenuation: modeling approach and application to the Vostok flowline. *Journal of Geophysical Research*. 117, F03022, doi:10.1029/2010JF002327.

103. Dahl-Jensen, D., and NEEM Community Members. 2013. Eemian interglacial reconstructed from a Greenland folded ice core. *Nature* 493(7433), 489-494.

104. Koutnik, M.R., E.D. Waddington, D.P. Winebrenner, and A.V. Pathare. 2013. Response timescales for Martian ice masses and implications for ice flow on Mars. *Icarus* 225, 949-959.

105. WAIS Divide Project Members. 2013. Onset of deglacial warming in West Antarctica driven by local orbital forcing. *Nature* 500(7463), 440-444.

PAPERS ACCEPTED FOR PUBLICATION

PAPERS SUBMITTED FOR PUBLICATION

Pettit, E.C., E. Whorton, E.D. Waddington, and R. Sletten. In review. Influence of debris-rich basal ice on flow of a polar glacier. *Journal of Glaciology*.

Aydin, N., T.J. Fudge, K.R. Verhulst, M.R. Nicewonger, E.D. Waddingotn, E.S. Saltzman. In review. Carbonyl sulfide hydrolysis in Antarctic ice cores and an atmospheric history for the last 8,000 years. J. *Geophys. Res. Atmospheres*.

Fudge, T.J., E.D. Waddington, H. Conway, J.M.D. Lundin, K.C. Taylor. In review. Interpolation methods for Antarctic ice-core timescales: application to Byrd, Siple Dome and Law Dome ice cores. *Climate of the Past*.

Campbell, A.J., E.D. Waddington, and S.G. Warren. In review. Refugium for surface life on Snowball Earth in a nearly-enclosed sea? A numerical solution for sea-glacier invasion through a narrow strait. *J. Geophys. Res. Earth Surface*.

PAPERS IN PREPARATION FOR PUBLICATION

Narod, B.B., E.D. Waddington and G.D. Clow. In prep. A high-resolution digital thermometer for borehole measurements in ice sheets. *Journal of Glaciology*.

Pettit, E.C., E.D. Waddington, N.A. Nereson, G.S. Hamilton, and M.A. Zumberge. In prep. Mass balance and behavior of Siple Dome, West Antarctica. *Journal of Glaciology*.

Thorsteinsson, T., E.D. Waddington, and L. Wilen. In prep. A standardized approach to extraction of fabric information from thin sections. *Journal of Glaciology*.

Thorsteinsson, Throstur, E.D. Waddington, Thorsteinn Thorsteinsson, L. Wilen, and G. Lamorey. In prep. Comparing methods to characterize fabric anisotropy from sonic-logging and thin-section data from in Greenland. *Journal of Glaciology*.

Lundin, J., E.D. Waddington, H. Conway, E.J. Brook, and L. Adams. In prep. Interpolation of sparse depth-age data in ice cores: an inverse approach. *Journal of Glaciology*.

Morse, D.L., E.D. Waddington, D.D. Blankenship and G.D. Clow. In prep. Morphology, temperatures and stability of Taylor Dome, Antarctica. *Journal of Glaciology*.

Clow, G.D., E.D. Waddington and D.L. Morse. In prep. Heat flow at Taylor Dome, Victoria Land, East Antarctica. *Geophys. Res. Lett*.

Obryk, M.K., P.T. Doran, C.P. McKay, and E.D. Waddington. In prep. The influence of westerly winds in Taylor Valley, Antarctica, on the presence of Glacial Lake Washburn and paleotemperatures during the Last Glacial Maximum.