Curriculum Vitae: Sheldon Drobot

Professional Preparation:

University of Manitoba	Geography	BA (Hons.), 1995
University of Manitoba	Geography	MA, 1997
University of Nebraska	Geosciences	PhD, 1997-2000

Appointments:

Research Associate, Colorado Center for Astrodynamics Research, Department of Aerospace Engineering, University of Colorado, 2004-

Study Director, Polar Research Board and Board on Atmospheric Sciences and Climate, National Academy of Sciences, Washington, DC, 2002-2004

Postdoc, Colorado Center for Astrodynamics Research, Department of Aerospace Engineering, University of Colorado, 2000-2002

Visiting Scientist, National Ice Center, Suitland, Maryland, 2002

Research Assistant, Department of Geosciences, University of Nebraska, 1998-2000

Contract Researcher – Centre for Earth Observation Science, University of Manitoba, 1998

Contract Researcher – TRW Weather TAC Division, 1998

Selected Publications:

1. **Drobot, S.D.**, 2005: A Seasonal Outlook for the Opening Date of Navigation to Prudhoe Bay, 1979-2000. *Proceedings of the 18th International Conference on Port and Ocean Engineering Under Arctic Conditions (POAC)*. June 26–30, 2005. Potsdam, NY.
2. Assel, R., **S.D. Drobot**, and T.E. Croley, 2004: Improving 30-Day Great Lakes Ice Cover Outlooks. *Journal of Hydrometeorology*, 5:713–717.
3. **Drobot, S.D.**, J.A. Maslanik, and C.F. Fowler, 2003: Atmospheric and sea ice conditions during the SHEBA year: Historical and spatial assessment. *Polar Geography*, 27:15-37.
4. **Drobot, S.D.**, 2003: Long-range statistical forecasting of ice severity in the Beaufort/Chukchi Sea, *Weather and Forecasting*, 18, 1161 – 1176.
5. **Drobot, S.D.**, and J.A. Maslanik, 2003: Interannual variability in summer Beaufort sea ice conditions: Relationship to spring and summer surface and atmospheric variability. *Journal of Geophysical Research*, 108(C7), 3233, doi:10.1029/2002JC001537.
6. M. C. Serreze, J. A. Maslanik, T. A. Scambos, F. Fetterer, J. Stroeve, K. Knowles, C. Fowler, **S. Drobot**, R. G. Barry, and T. M. Haran, 2003: A record minimum arctic sea ice extent and area in 2002. *Geophysical Research Letters.*, 30, 1110, doi:10.1029/2002GL016406.
7. Anderson, M.R., and **S.D. Drobot**, 2002: Arctic ocean snow melt onset dates derived from passive microwave, A new data set. In Glaciological Data: Twenty-fifth anniversary: Monitoring an evolving cryosphere. National Snow and Ice Data Center, pp. 13-18.
8. **Drobot, S.D.**, and J.A. Maslanik, 2001: A practical method for long-range forecasting of ice severity in the Beaufort Sea. *Geophysical Research Letters*, 29, 1213, 10.1029/2001GL014173.
9. **Drobot, S.D.**, and M.R. Anderson, 2001: An improved method for determining snowmelt onset dates over Arctic sea ice using scanning multichannel microwave radiometer and Special Sensor Microwave/Imager data. *Journal of Geophysical Research*, 106:24,033-24,050.
10. **Drobot, S.D.**, and M.R. Anderson, 2001: Influence of the Arctic Oscillation on snow melt onset over Arctic sea ice. *Annals of Glaciology*. 33:79-84.

11. Anderson, M.R., and **S.D. Drobot**, 2001: Spatial variability in snow melt onset over Arctic sea ice. *Annals of Glaciology*. 33:74-78.
12. Forster, R.R., D.G. Long, K.C. Jezek, **S.D. Drobot**, and M.R. Anderson, 2001: The onset of Arctic sea-ice melt as detected with passive and active microwave remote sensing. *Annals of Glaciology*. 33:85-93.
13. **Drobot, S.D.**, and M.R. Anderson, 2000: Spaceborne microwave radiometric observations of Arctic sea ice during spring. *Professional Geographer*. 52:315-321.
14. **Drobot, S.D.,** and M.R. Anderson, 1999: Interannual variations in snowmelt onset and links to 500 hPa atmospheric anomalies over the Arctic. *Interactions Between the Cryosphere, Climate and Greenhouse Gasses*. IAHS Publication 256, pp. 55-61.
15. **Drobot, S.D.**, and D.G. Barber, 1998: Towards development of a snow water equivalence (SWE) algorithm using microwave radiometry over snow covered first-year sea ice. *Photogrammetric Engineering and Remote Sensing*. 64:415-423.

National Research Council Projects

1. NRC, 2005: *Final Comments on the Science Plan for the North Pacific Research Board*. National Academies Press. Washington, DC. 44 pp.
2. NRC, 2004: *A Vision for the International Polar Year*. National Academies Press. Washington, DC. 112 pp.
3. NRC, 2004: *Planning for the International Polar Year 2007-2008: Report of the Implementation Workshop*. National Academies Press. Washington, DC. 65 pp.
4. NRC, 2004: *Climate Data Records from Environmental Satellites*. National Academies Press. Washington, DC. 150 pp.
5. NRC, 2004: *Elements of a Science Plan for the North Pacific Research Board*. National Academies Press. Washington, DC. 140 pp.

Conference/Technical Publications

1. **Drobot, S.**, D. Porinchu, K. Azayus, V. Barber, L. Delissio, Z. Eshetu, A. Ridgewell, A. Schnetzer, M. Smith, J. Warren. 2003. The Ideal Climate Change Ph.D. Program. Working Group Report from the The DISsertations initiative for the advancement of Climate Change ReSearch (DISCCRS). Available at: http://aslo.org/phd/disccrsclimatechange.pdf
2. **Drobot, S.D.,** J.A. Maslanik, and C. Fowler, 2001: Spatial and temporal variations in monthly averaged cloud cover based on AVHRR Polar Pathfinder Data. *Proceedings of the Sixth Conference on Polar Meteorology and Oceanography*. San Diego, CA, USA. May 14-18, 2001, pp. 49-52.
3. **Drobot, S.D.**, and M.R. Anderson, 2001: Towards prediction of snowmelt onset over Arctic sea ice. *Proceedings of the Sixth Conference on Polar Meteorology and Oceanography*. San Diego, CA, USA. May 14-18, 2001, pp. 93-96.
4. **Drobot, S.D.**, and M.R. Anderson, 2000: Variations in the snow melt onset date derived from passive microwave data. *Proceedings of the 11th Symposium on Global Change Studies*. Long Beach, CA, USA. January 11-15, 2000, pp. 58-61.
5. **Drobot, S.D.**, and M.R. Anderson, 1999: Spatial variation in 500 hPa atmospheric height anomalies and links to snow melt onset over the Arctic. *Proceedings of the 5th Conference on Polar Meteorology and Oceanography*. Dallas, Texas, USA. January 10-15, 1999, pp. 35-38.
6. Anderson, M.R. and **S.D. Drobot**, 1999: Spatio-temporal variability In snow melt onset over the Arctic as determined by microwave radiometry. *Proceedings of the 5th Conference on Polar Meteorology and Oceanography*. Dallas, Texas, USA. January 10-15, 1999, pp. 31-34.