

## UAF Faculty Peer-Reviewed Publications 2008

1. Addison, B., Benowitz-Fredericks, Z. M., Hipfner, J. M., & **Kitaysky, A. S.** (2008). Are yolk androgens adjusted to environmental conditions? A test in two seabirds that lay single-egg clutches. *General and Comparative Endocrinology*, 158(1), 5-9. doi: 10.1016/j.ygcen.2008.05.020
2. Addison, B., **Kitaysky, A. S.**, & Hipfner, J. M. (2008). Sex allocation in a monomorphic seabird with a single-egg clutch: test of the environment, mate quality, and female condition hypotheses. *Behavioral Ecology and Sociobiology*, 63(1), 135-141. doi: 10.1007/s00265-008-0643-z
3. Adelinda Womkon Badten, V. O. K., Marie Oovi, and Christopher Koonooka (2008). St. Lawrence Island / Siberian Yupik Eskimo Dictionary. Fairbanks, Alaska Native Language Center.
4. Alessa, L., & **Chapin, F. S.** (2008). Anthropogenic biomes: a key contribution to earth-system science. *Trends in Ecology & Evolution*, 23(10), 529-531. doi: 10.1016/j.tree.2008.07.002
5. Alessa, Lilian, & **Chapin III, F. Stuart.** (2008). Anthropogenic biomes: a key contribution to earth-system science. *Trends in Ecology and Evolution*, 23(10), 529-531.
6. **Allen, J.** (2008). "This Decision Notto Drink. A review of Bea Medicine's Drinking and Sobriety in Lakota Society.'" *Wicazo SaReview*. 23: 152-154.
7. **Allman, E. S.**, & **Rhodes, J. A.** (2008). Identifying evolutionary trees and substitution parameters for the general Markov model with invariable sites. *Mathematical Biosciences*, 211(1), 18-33. doi: 10.1016/j.mbs.2007.09.001
8. **Allman, E. S.**, & **Rhodes, J. A.** (2008). Phylogenetic ideals and varieties for the general Markov model. *Advances in Applied Mathematics*, 40(2), 127-148. doi: 10.1016/j.aam.2006.10.002
9. Almberg, L. D., **Larsen, J. F.**, **Eichelberger, J. C.**, Vogel, T. A., & Patino, L. C. (2008). Comparison of eruptive and intrusive samples from Unzen Volcano, Japan: Effects of contrasting pressure-temperature-time paths. *Journal of Volcanology and Geothermal Research*, 175(1-2), 60-70. doi: 10.1016/j.jvolgeores.2008.03.020
10. Alvarez-Aviles, L., **Simpson, W. R.**, Douglas, T. A., Sturm, M., Perovich, D., & Domine, F. (2008). Frost flower chemical composition during growth and its implications for aerosol production and bromine activation. *Journal of Geophysical Research-Atmospheres*, 113(D21). doi: D2130410.1029/2008jd010277
11. **Alvarez-Aviles, L.**, **Simpson, W.R.**, Douglas, T.A., Sturm, M., Perovich, D.K., & Domine, F. (2008). Frost flower chemical composition during growth and its implications for aerosol production and bromine activation. *Journal of Geophysical Research*, 113(D21304). doi: 10.1029/2008JD010277
12. **Amundson, J.M.**, Fahnestock, M., **Truffer, M.**, Tsai, V., & **West, M.** (2008). Analysis of seismic waveforms generated during iceberg calving events, Jakobshavn Isbrae, Greenland. *EOS Trans, AGU(89)*, 53.

## UAF Faculty Peer-Reviewed Publications 2008

13. **Amundson, J.M., Truffer, M.**, Luthi, M.P., Fahnestock, M., **West, D.**, & **Motyka, Roman.** (2008). Glacier, fjord and seismic response to recent large calving events, Jakobshavn Isbrae, Greenland. *Geophys. Res. Lett.*, 35(L22501). doi: 10.1029/2008GL035281
14. Amundson, J. M., **Truffer, M.**, Luthi, M. P., Fahnestock, M., West, M., & Motyka, R. J. (2008). Glacier, fjord, and seismic response to recent large calving events, Jakobshavn Isbrae, Greenland. *Geophysical Research Letters*, 35(22). doi: L2250110.1029/2008gl035281
15. **Andrews, R.A.**, Robert, P., & Lisa, B. (2008). Satellite tracking reveals distinct movement patterns for Type B and Type C killer whales in the southern Ross Sea, Antarctica. *Polar Biology*, 31(12), 1461-1468.
16. Apodaca, R. L., Huff, D. M., & **Simpson, W. R.** (2008). The role of ice in N2O5 heterogeneous hydrolysis at high latitudes. *Atmospheric Chemistry and Physics*, 8(24), 7451-7463.
17. **Apodaca, R.L., Huff, D.M., & Simpson, W.R.** (2008). The role of ice in N2O5 heterogeneous hydrolysis at high latitudes. *Atmos. Chem. Phys.*, 8(1).
18. Arce, J.L., Macias, R., Garcia-Palomo, R., Capra, A., Macias, J.L., **Layer, Paul,** & Rueda, H. (2008). Flank collapse of Zempoala Volcano (Central Mexico). *Journal of Volcanological and Geothermal Research*, 177(4), 944-958.
19. Arce, J. L., Macias, R., Palomo, A. G., Capra, L., Macias, J. L., **Layer, P.,** & Rueda, H. (2008). Late Pleistocene flank collapse of Zempoala volcano (Central Mexico) and the role of fault reactivation. *Journal of Volcanology and Geothermal Research*, 177(4), 944-958. doi: 10.1016/j.jvolgeores.2008.07.015
20. **Arendt, Anthony,** Luthcke, S., **Larsen, Christopher,** Abdalati, W., Krabill, W., & Beedle, M. (2008). Validation of High-Resolution GRACE mascon Estimates of Glacier Mass Changes in the St. Elias Mountains, Alaska, USA using Aircraft Laser Altimetry. *Journal of Glaciology*, 54(188), 778-787.
21. **Arendt, Anthony,** Walsh, John, & **Harrison, William.** (2008). Changes of Glaciers and Climate in Northwestern North America during the Late 20th Century. *Journal of Climate*, 22, 4117-4134.
22. **Arthur, M.,** Jerris R. Hedges, Craig D. Newgard, Brian S. Diggs and Richard J. Mullins (2008). "Racial Disparities in Mortality Among Adults Hospitalized After Injury." *Medical Care* 46(2): 192-199.
23. **Arundale, R.** (2008). "Against (Gricean) intentions at the heart of interaction." *Intercultural Pragmatics* 5(2): 229-258.
24. **Atkinson, S.,** Demaster, D.P., & Calkins, D.G. (2008). Anthropogenic causes of the western Steller sea lion *Eumetopias jubatus* population decline and their threat to recovery. *Mammal Review*, 38(1), 1-18.
25. **Atwood, Donad, Meyer, Franz, & Arendt, Anthony.** (2008). Using L-band

## UAF Faculty Peer-Reviewed Publications 2008

- SAR Coherence to Delineate Glacier Extent. *Canadian Journal of Remote Sensing*.
26. Auer, J.D., & **Holloway, P.S.** (2008). An introduction to harvesting and selling Alaska cut flower peonies. . *University of Alaska Agricultural and Forestry Experiment Station Misc. Pub.*(MP 2008-03), 16.
  27. **Avdonin, S.**, & Kurasov, P. (2008). Inverse problems for quantum trees. *Inverse Problems and Imaging*, 2(1), 1-21.
  28. **Avdonin, S. A.**, & Ivanov, S. A. (2008). Sampling and Interpolation Problems for Vector Valued Signals in the Paley-Wiener Spaces. *Ieee Transactions on Signal Processing*, 56(11), 5435-5441. doi: 10.1109/tsp.2008.928702
  29. Bacula, T. D., Daugherty, D.J., Kennedy, A.J., & **Sutton, T.M.** (2008). Population attributes and stock dynamics of blue sucker in the Wabash River, Indiana. *Fisheries Management and Ecology*, 16, 21-27.
  30. **Baek, Junggho**, & Koo, W. (2008). Identifying Macroeconomic Linkages to U.S. Agricultural Trade Balance. [Refereed Journal Article]. *Canadian Journal of Agricultural Economics*, 56(1), 63-77.
  31. **Bailey, J.E.**, **Webley, P.W.**, & **Prakash, A.** (2008). Illustrating the Geosciences Through Google Earth. *EOS Trans*, 89(53).
  32. **Balaban, M.O.** (2008). Quantifying non-homogeneous colors in agricultural materials. Part I: Method development. *Journal of Food Science*, 73(9), S431-S437.
  33. **Balaban, M.O.**, Aparicio, J. , Zotarelli, M. , & Sims, C. . (2008). Quantifying Non-Homogeneous Colors in Agricultural Materials. Part II: Comparison of Machine Vision and Sensory Panel Evaluations. *Journal of Food Science*, 73(9), S438-S442.
  34. **Balaban, M.O.**, Damar, S., Odabasi, A.Z., & **Oliveira, A.C.M.** (2008). Quality Evaluation of Seafoods. In Da-Wen Sun (Ed.), *Computer Vision Technology for Food Quality Evaluation* (pp. 189-209): Elsevier.
  35. Balshi, Michael S., **McGuire, A. David**, Duffy, Paul, Flannigan, Mike, Walsh, John, & Melillo, Jerry. (2008). Assessing the response of area burned to changing climate in western boreal North America using a Multivariate Adaptive Regression Splines (MARS) approach. *Global Change Biology*, 15, 578-600.
  36. Banik, N., Biswas, B., & **Criddle, K.R.** (2008). An optimum currency area in South Asia: a state space approach. *International Review of Economics & Finance*, 18. doi: doi:10.1016/j.iref.2008.04.004
  37. Banks, R. C., Chesser, R. T., Cicero, C., Dunn, J. L., Kratter, A. W., Lovette, I. J., . . . **Winker, K.** (2008). Forty-ninth supplement to the American Ornithologists' Union - Check-list of north American birds. *Auk*, 125(3), 756-766. doi: 10.1525/auk.2008.9708
  38. **Barber, V. A.**, **Juday, G. P.** , D'Arrigo, R., Berg, E., Buckley, B., Huntington,

## UAF Faculty Peer-Reviewed Publications 2008

- H., . . . Wilmking, M. (2008). Climate Warming in Western North America/Evidence and Environmental Effects (pp. 167).
39. **Barboza, P. S.**, & Parker, K. L. (2008). Allocating Protein to Reproduction in Arctic Reindeer and Caribou. *Physiological and Biochemical Zoology*, 81(6), 835-855. doi: 10.1086/590414
  40. **Barnes, DL**, & Biggar, K. (2008). *Movement of Petroleum Hydrocarbons Through Freezing and Frozen Soils*: Cambridge University Press.
  41. **Barnes, DL**, & Chuviline, E. (2008). Petroleum Migration in Permafrost Affected Regions. In R Margesin (Ed.), *Permafrost Soils* (pp. 263-278): Springer Verlag.
  42. **Barnes, D. L.**, & Wolfe, S. M. (2008). Influence of Ice on the Infiltration of Petroleum into Frozen Coarse-grained Soil. [Article]. *Petroleum Science & Technology*, 26(7/8), 856-867. doi: 10.1080/10916460701824508
  43. **Barnhardt, R.**, O.R.Rasmussen, and J.H. Keskitalo (2008). Arctic Social Indicators: Education. *Arctic Social Indicators*. J. N. L. P.Schweitzer. Copenhagen, Arctic Council.
  44. **Barnhardt, R.**, Tippins, D., & Brandt., C. (2008). "Locations of possibilities in tertiary science education: responding to the vices of Navajo women." *Cultural Studies and Science Education* 2(4).
  45. **Barnhardt, R.** (2008). "Theory Z + N: The role of Alaska Native in Administration." *Democracy and Education* 17(2).
  46. **Barnhardt, R. K., A.O.** (2008). Indigenous Knowledge Systems and Educaiton *Why Do We Educate?* J. W. D. C. G. Fenstermacher, National Society for the Study of Education
  47. Barut, M., **Bogossyan, S.**, & Gokasan, M. (2008). Experimental Evaluation of Braided EKF for Sensorless Control of Induction Motors. *Industrial Electronics, IEEE Transactions on*, 55(2), 620-632.
  48. Bass, H.; E. Herrin, P. Golden, R. Woodward, D. Drob, M. Hedlin, C. Hedlin, K. Walker, M. Garces, **C. Szuberla** and R. Whitaker (2008). High-altitude infrasound calibration experiments. *Journal of Acoustical Society of America*, 123(5. Pt 2), 3920.
  49. **Beget, J.**, Gardner, C., & Davis, K. (2008). Volcanic tsunamis and prehistoric cultural transitions in Cook Inlet, Alaska. *Journal of Volcanology and Geothermal Research*, 176(3), 377-386. doi: 10.1016/j.jvolgeores.2008.01.034
  50. **Beget, James E.**, Gardner, C., & Davis, K. (2008). Volcanic Tsunamis and Prehistoric Cultural Transitions in the Cook Inlet Area. *Journal of Volcanological and Geothermal Research*, 176, 377-386.
  51. **Beget, James E.**, & Kargel, J. (2008). Volcanoes and permafrost in Bering Land Bridge National Preserve, Arctic Alaska, Alaska. Park Service. *U.S. National Park Service, Anchorage*, 32-37.

## UAF Faculty Peer-Reviewed Publications 2008

52. Beier, C. M., Patterson, T. M., & **Chapin, F. S.** (2008). Ecosystem services and emergent vulnerability in managed ecosystems: A geospatial decision-support tool. *Ecosystems*, 11(6), 923-938. doi: 10.1007/s10021-008-9170-z
53. Beier, Colin M., Patteson, Trista M., & **Chapin III, F. Stuart.** (2008). Ecosystem Services and Emergent Vulnerability in Managed Ecosystems: A Geospatial Decision-Support Tool. *Ecosystems*.
54. Beier, C.M. , Sink, S.E. , Hennon, P.E., & **Juday, G.P.** . (2008). Twentieth-century warming and the dendroclimatology of declining yellow-cedar forests in southeastern Alaska. . *Canadian Journal of Forest Research*, 38(6), 1319-1334.
55. Bell, J.L., & **Hopcroft, R.R.** (2008). Assessment of Zoolmage as a tool for the classification of zooplankton. *Journal of Plankton Research*, 30(12), 1351-1367. doi: DOI 10.1093/plankt/fbn092
56. Benowitz, J., & **Layer, P.** (2008). The thermal history and uplift of the Alaska Range from Ar-40/Ar-39 thermochronology. *Geochimica Et Cosmochimica Acta*, 72(12), A74-A74.
57. Benowitz-Fredericks, Z. M., Shultz, M. T., & **Kitaysky, A. S.** (2008). Stress hormones suggest opposite trends of food availability for planktivorous and piscivorous seabirds in 2 years. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(16-17), 1868-1876. doi: 10.1016/j.dsr2.2008.04.007
58. Bentzen, R. L., **Powell, A. N.**, & Suydam, R. S. (2008). Factors Influencing Nesting Success of King Eiders on Northern Alaska's Coastal Plain. *Journal of Wildlife Management*, 72(8), 1781-1789. doi: 10.2193/2007-345
59. Bentzen, Rebecca L., **Powell, Abby N.**, & Suydam, Robert S. (2008). Strategies for Nest-Site Selection by King Eiders. *The Journal of Wildlife Management*, 73(6), 932-938.
60. Bentzen, R. L., **Powell, A. N.**, Williams, T. D., & **Kitaysky, A. S.** (2008). Characterizing the nutritional strategy of incubating king eiders *Somateria spectabilis* in northern Alaska. *Journal of Avian Biology*, 39(6), 683-690. doi: 10.1111/j.1600-048X.2008.04442.x
61. Bentzen, T.W., **Follmann, E.H.**, Amstrup, S.C., Tork, G.S., Wooller, M.J., Muir, D.C.G., & **O'Hara, T.M.** (2008). Dietary Biomagnification of Organochlorine Contaminants in Alaskan Polar Bears. *Canadian Journal of Zoology*, 86, 177-191.
62. Bentzen, T. W., **Follmann, E. H.**, Amstrup, S. C., York, G. S., **Wooller, M. J.**, Muir, D. C. G., & **O'Hara, T. M.** (2008). Dietary biomagnification of organochlorine contaminants in Alaskan polar bears. *Canadian Journal of Zoology-Revue Canadienne De Zoologie*, 86(3), 177-191. doi: 10.1139/z07-124
63. Bentzen, T. W., Muir, D. C. G., Amstrup, S. C., & **O'Hara, T. M.** (2008). Organohalogen concentrations in blood and adipose tissue of Southern

## UAF Faculty Peer-Reviewed Publications 2008

- Beaufort Sea polar bears. *Science of the Total Environment*, 406(1-2), 352-367. doi: 10.1016/j.scitotenv.2008.07.030
64. **Berry, Kevin.** (2008). An Examination of the Potential Bias Associated with Oil and Gas Reserve Estimation: Internal Versus External Reserve Engineers. [Refereed Journal Article]. *Oil, Gas & Energy Quarterly*, 56(4), 781-789.
65. Bersamin, A., **Luick, B.R.**, King, I.B., Stern, J.S., & Zidenberg-Cherr, S. (2008). Westernizing diets influence fat intake, red blood fatty acid composition, and health in remote Alaska Native Communities: the CANHR study. *Journal of the American Dietetic Association*, 108(2).
66. **Bersamin, A.**, Luick, B.R., King, L.B., Stern, J.S., & Zudenderg-Cherr, S. (2008). Westernizing diets influence fat intake, red blood cell fatty acid composition, and health in remote Alaskan Native communities in the Center for Alaska Native Health Study. *Journal of the American Dietetic Association*, 108, 266-273.
67. **Bersamin, A.**, Luick, B.R., Ruppert, E., Stern, J.S., & Zidenberg-Cherr, S. (2008). Diet quality among Yup'ik Eskimos living in rural communities is low: The Center for Alaska Native Health Research pilot study. *Journal of American Dietetic Association*, 106, 1055-1063.
68. Berthelote, A.R., **Prakash, A.**, & **Dehn, J.** (2008). An empirical function to estimate the depths of linear hot sources: Applied to the Kuhio Lava tube, Hawaii. *Bull. of Volcanology*, 70(7), 813-824.
69. Berthelote, A. R., **Prakash, A.**, & **Dehn, J.** (2008). An empirical function to estimate the depths of linear hot sources: Laboratory modeling and field measurements of lava tubes. *Bulletin of Volcanology*, 70(7), 813-824. doi: 10.1007/s00445-007-0171-0
70. Bezrodny, V.G., Charkina, O.V., Galushko, V.B., Groves, K., Kashcheyev, A.S., **Watkins, B.J.**, . . . Murayama, Y. (2008). Application of an Imaging Riometer to the Observation of Discrete Cosmic Sources. *Ann. Geophys.*, 26(1491-1505).
71. Bezrodny, V. G., Charkina, O. V., Galushko, V. G., Groves, K., Kashcheyev, A. S., **Watkins, B. J.**, . . . Murayama, Y. (2008). Application of an imaging HF riometer for the observation of scintillations of discrete cosmic sources. *Radio Science*, 43(6). doi: Rs600710.1029/2007rs003721
72. Bharadwaj, A.S., Pangle, K.L., **Sutton, T.M.**, & Brown, P.B. (2008). Nitrogen excretion in fed and fasted lake sturgeon. *North American Journal of Aquaculture*, 70(2), 132-137. doi: Doi 10.1577/Ao6-086.1
73. **Bhatt, U.S.**; Alexander, M.A.; Deser, C.; **Walsh, J.E.**; Miller, J.S.; Timlin, M.S.; Scott, J.; Tomas, R.A. (2008). The Atmospheric Response to Realistic Reduced Summer Arctic Sea Ice Anomalies. *Geophysical Monograph*, 180, 20.
74. Biggs, J., Burgmann, R., **Freymueller, J.T.**, Lu, Z., Parsons, B., Ryder, I., . . .

## UAF Faculty Peer-Reviewed Publications 2008

- Wright, T. (2008). The postseismic response to the 2002 M7.9 Denali Fault Earthquake: Constraints from InSAR 2003-2005. *Geophys J. Int*, 176, 353-367. doi: 10.1111/j.1365246X.2008.03932.x.
75. Bindeman, I.N., Leonov, V.L., **Izbekov, P.**, Ponomareva, V.V., Watts, K.E., Perepelov, A.B., . . . Chen, C.H. (2008). Large-volume silicic volcanism in Kamchatka: Ar-Ar, U-Pb ages and geochemical characteristics of major pre-Holocene caldera-forming eruptions. *Journal of Volcanological and Geothermal Research*.
76. **Blanchard, A.L.** . (2008). Challenges in Environmental Monitoring of Marine Invertebrate Communities at a Marine Oil Terminal in Alaska *JSM Proceedings, Section on the Environment*. Alexandria, VA: American Statistical Association.
77. **Bluhm, B.A.**, & **Gradinger, R.** (2008). Regional variability in food availability for arctic marine mammals. *Ecological Applications*, 18(2), S77-S96.
78. **Bluhm, B.A.**, **Gradinger, R.**, Hüttmann, F., **Hopcroft, R.R.**, Gebruk, A., & Sirenko, B.I. (2008). Arctic Ocean Diversity – A Census of Marine Life project in the Arctic. *Biology in our Time (in German)*, 38, 40-49.
79. Bodei, S., Buatier, M., Steim-Nann, M., Adatte, T., & **Wheat, C.G.** (2008). Characterization of metalliferous sediment from a low-temperature hydrothermal environment on the Eastern Flank of the East Pacific Rise. *Marine Geology*, 250(1-2), 128-141. doi: DOI 10.1016/j.margeo.2008.01.003
80. Boone, R.B. , **BurnSilver, S.B.**, & Kruska, R. (2008). Comparing Landscape and Infrastructural Heterogeneity within and between Ecosystems. In K. Galvin, R. Reid, R. Behnke & T. Hobbs (Eds.), *Fragmentation of Semi-Arid and Arid Landscapes: Consequences for Human and Natural Systems* (pp. 341-368). New York: Verlag.
81. Borner, A. P., **Kielland, K.**, & **Walker, M. D.** (2008). Effects of simulated climate change on plant phenology and nitrogen mineralization in Alaskan arctic Tundra. *Arctic Antarctic and Alpine Research*, 40(1), 27-38. doi: 10.1657/1523-0430(06-099)[borner]2.0.co;2
82. Bourdouridis, A., Lyons, L.R., Zesta, E., Ruohoniemi, J.M., & **Lummerzheim, D.** (2008). Nightside flow enhancement associated with solar wind dynamic pressure driven reconnection. *Journal of Geophysical Research*. doi: 10.1029/2008JA013489
83. Bourne, S., **Bhatt, U.S.**, Zhang, J., & Thoman, R. (2008). Observed and Modeled Surface-based Temperature Inversions in Alaska from a Climate Perspective. *Atmospheric Research*.
84. Bremond, L., Alexandre, A., **Wooller, M.J.**, Hely, C., Williamson, D., Schafer, P.A., . . . Guiot, J. (2008). Phytolith indices as proxies of grass subfamilies on East African tropical mountains. *Global and Planetary Change*, 61(3-4), 209-224. doi: DOI 10.1016/j.gloplacha.2007.08.016
85. **Bret-Harte, M. S.**, Mack, M. C., Goldsmith, G. R., Sloan, D. B., DeMarco, J.,

## UAF Faculty Peer-Reviewed Publications 2008

- Shaver, G. R., . . . **Chapin, F. S.** (2008). Plant functional types do not predict biomass responses to removal and fertilization in Alaskan tussock tundra. *Journal of Ecology*, 96(4), 713-726. doi: 10.1111/j.1365-2745.2008.01378.x
86. **Bret-Harte, M. Syndonia**, Mack, Michelle C., Goldsmith, Gregory R., Sloan, Daniel B., DeMarco, Jennie, Shaver, Gaius R., . . . **Chapin III, F. Stuart.** (2008). Plant functional types do not predict biomass responses to removal and fertilization in Alaskan tussock tundra. *Journal of Ecology*, 96, 713-726.
87. Brewer, J. H., O'Reilly, K. M., & **Buck, C. L.** (2008). Effect of investigator disturbance on corticosterone concentrations of Black-legged Kittiwake chicks. *Journal of Field Ornithology*, 79(4), 391-398. doi: 10.1111/j.1557-9263.2008.00187.x
88. **Brightwell, G.** (2008). The Dark Lantern. Australia and New Zealand, Scribe.
89. **Brightwell, G.** (2008). "Review of Ian Burney's *Poison, Detection and the Victorian Imagination*. Manchester: Manchester UP, 2007." Journal of British Studies 47(2).
90. **Bristow, W.A.** (2008). Statistics of velocity fluctuations observed by SuperDARN under steady interplanetary magnetic field conditions. *Journal of Geophysical Research*, 113(A11202). doi: 10.1029/2008JA013203
91. Brookens, T. J., **O'Hara, T. M.**, Taylor, R. J., Bratton, G. R., & Harvey, J. T. (2008). Total mercury body burden in Pacific harbor seal, *Phoca vitulina richardii*, pups from central California. *Marine Pollution Bulletin*, 56(1), 27-41. doi: 10.1016/j.marpolbul.2007.08.010
92. Brown, G. E., **Trainor, T. P.**, Eng, P., Chaka, A. M., Kendelewicz, T., Yamamoto, S., . . . Nilsson, A. (2008). GEOC 33-Factors controlling the reactivity of metal oxide surfaces. *Abstracts of Papers of the American Chemical Society*, 235, 33-GEOC.
93. Brown, G. E., Wang, Y., Gelabert, A., Ha, J., Cismasu, C., Ona-Nguema, G., **Trainor, T. P.** . . . Spormann, A. M. (2008). Synchrotron X-ray studies of heavy metal mineral-microbe interactions. *Mineralogical Magazine*, 72(1), 169-173. doi: 10.1180/minmag.2008.072.1.169
94. Brown, J., & **Romanovsky, V. E.** (2008). Report from the International Permafrost Association: State of permafrost in the first decade of the 21(st) century. *Permafrost and Periglacial Processes*, 19(2), 255-260. doi: 10.1002/ppp.618
95. **Brown, S.C.**, & Ploeger, J. (2008). A Kansas and Alaska Example of Extension Opportunities in Emergency Preparedness. *Journal of Extension*, 46(5).
96. Browne, B.L., **Izbekov, P.**, **Eichelberger, J.**, & Churikova, T. (2008). Constraints on the Pre-Eruptive Storage Conditions of the Holocene-Aged KZI Dacite Magma Erupted from Kizimen Volcano, Kamchatka. *International Geology Review*.



## UAF Faculty Peer-Reviewed Publications 2008

97. Brubaker, L.B., Higuera, P.E., **Rupp, T.S.**, Olson, M., Anderson, P.M., & Hu, F.S. (2008). Linking sediment charcoal records and ecological modeling to understand causes of past fire-regime change in Alaskan boreal forests. *Ecology*, 90, 1788-1801. doi: 10.1890/08-0797.1
98. Budge, S.M., **Springer, A.M.**, Iverson, S.J., Sheffield, G., & Rosa, C. (2008). Blubber fatty acid composition of bowhead whales, *Balaena mysticetus*: Implications for diet assessment and ecosystem monitoring. *Journal of Experimental Marine Biology and Ecology*, 359(1), 40-46.
99. Budge, S.M., **Wooller, M.J.**, **Springer, A.M.**, Iverson, S.J., **McRoy, C.P.**, & Divoky, G.J. (2008). Tracing carbon flow in an arctic marine food web using fatty acid-stable isotope analysis. *Oecologia*, 157(1), 117-129. doi: DOI 10.1007/s00442-008-1053-7
100. **Bueler, E.** (2008). Lessons from the short history of ice sheet model intercomparison. *The Cryosphere Discussions*, 2, 14. doi: 10.5194/tcd-2-399-2008
101. **Bueler, E.**; Brown, J. (2008). The shallow shelf approximation as a "sliding law" in a thermomechanically coupled ice sheet model. *Journal of Geophysical Research*, 114, 21. doi: 10.1029/2008JF001179
102. Bui, T.D., Jensen, J.L., & **Hanks, C.L.** (2008). Neural network modeling with sparse datasets. *Petroleum Science and Technology*, 26, 545-561.
103. Bull, K. F., Crawford, A. J., McPhie, J., **Newberry, R. J.**, & Meffre, S. (2008). Geochemistry, geochronology and tectonic implications of Late Silurian-Early Devonian volcanic successions, Central Lachlan Orogen, New South Wales. *Australian Journal of Earth Sciences*, 55(2), 235-264. doi: 10.1080/08120090701689381
104. Burek, K.A., Gulland, F., & **O'Hara, T.M.** (2008). Effects of climate change on arctic marine mammal health. *Ecological Applications*, 18(2), S126-S134.
105. Burek, K. A., Gulland, F. M. D., & **O'Hara, T. M.** (2008). Effects of climate change on Arctic marine mammal health. *Ecological Applications*, 18(2), S126-S134.
106. **Burleson, D.** (2008). "Late Valentines." *Verse Daily*(August 12, 2008).
107. **Burleson, D.** (2008). "Omega Bend." *Poetry Daily*(June 5, 2008).
108. **Burleson, D.** (2008). "Thank You All." *Permafrost*(Summer 2008).
109. **BurnSilver, S.B.**, & Worden, J.S. (2008). Processes of Fragmentation in the Amboseli Ecosystem. In K. Galvin, R. Reid, R. Behnke & T. Hobbs (Eds.), *Fragmentation of Semi-Arid and Arid Landscapes: Consequences for Human and Natural Systems*. (pp. 225-244). New York: Verlag.
110. Butler, L. G., & **Kielland, K.** (2008). Acceleration of vegetation turnover and element cycling by mammalian herbivory in riparian ecosystems. *Journal of Ecology*, 96(1), 136-144. doi: 10.1111/j.1365-2745.2007.01318.x

## UAF Faculty Peer-Reviewed Publications 2008

111. Butler, Lem G., & **Kielland, Knut**. (2008). Blackwell Publishing Ltd Acceleration of vegetation turnover and element cycling by mammalian herbivory in riparian ecosystems. *Journal of Ecology*, 96, 136-144.
112. **Cahill, C. F.**, Cahill, T. A., & Perry, K. D. (2008). The size- and time-resolved composition of aerosols from a sub-Arctic boreal forest prescribed burn. *Atmospheric Environment*, 42(32), 7553-7559. Doi:10.1016/j.atmosenv.2008.04.034
113. **Cahill, C.F.**, Cahill, T.A., & Perry, K.D. (2008). The Size-and-Time Resolved Composition of Aerosols from a Sub-Boreal Forest Prescribed Burn. *Atmospheric Environment*, 42, 7553-7559. doi: 10.1016/j.atmosenv.04.034
114. Cai, Y.H., Guo, L.D., Douglas, T.A., & **Whitledge, T.E.** (2008). Seasonal variations in nutrient concentrations and speciation in the Chena River, Alaska. *Journal of Geophysical Research-Biogeosciences*, 113(G3), -. doi: Artn G03035 Doi 10.1029/2008jg000733
115. Cairns, D. K., Gaston, A. J., & **Huettmann, F.** (2008). Endothermy, ectothermy and the global structure of marine vertebrate communities. *Marine Ecology-Progress Series*, 356, 239-250. doi: 10.3354/meps07286
116. Calambokidis, J., Falcone, E.A., **Quinn, T.J.**, **Burdin, A.M.**, Clapham, P.J., Ford, J.K.B., Gabriele, C.M., LeDuc, R., Mattila, D., Rojas-Bracho-Rojas, L., Straley, J.M., Taylor, B.L., Urbán, J.R.; Weller, D., Witteveen, B.H., Yamaguchi, M., Dendlin, A, Camacho, D., Flynn, K., Havron, A., Higgins, J., and Maloney, N. (2008). SPLASH: Structure of populations, levels of abundance and status of humpback whales in the North Pacific. (U.S. Department of Commerce, Trans.). In J. and Wade Barlow, P.R. (Ed.), *Cascadia Research* (pp. 57pp). Seattle, WA: U. S. Department of Commerce.
117. Calef, M. P., **McGuire, A. D.**, & **Chapin, F. S.** (2008). Human influences on wildfire in Alaska from 1988 through 2005: An analysis of the spatial patterns of human impacts. *Earth Interactions*, 12. doi: 110.1175/2007ei220.1
118. Calef, M.P., **McGuire, A.D.**, & **Chapin III, F.S.** (2008). Human Influences on Wildfire in Alaska from 1988 through 2005: An Analysis of the Spatial Patterns of Human Impacts. *Earth Interactions*, 12, 1-17.
119. Calix, T.F., Ferrentino, G. , & **Balaban, M.O.** (2008). Measurement of High-Pressure Carbon Dioxide Solubility in Orange Juice, Apple Juice, and Model Liquid Foods. *Journal of Food Science*, 73(9), E439-E445.
120. Campbell, J. R., & **Sassen, K.** (2008). Polar stratospheric clouds at the South Pole from 5 years of continuous lidar data: Macrophysical, optical, and thermodynamic properties. *Journal of Geophysical Research-Atmospheres*, 113(D20). doi: D20204 10.1029/2007jd009680
121. Campbell, J. R., **Sassen, K.**, & Welton, E. J. (2008). Elevated cloud and aerosol layer retrievals from Micropulse Lidar Signal Profiles. *Journal of Atmospheric and Oceanic Technology*, 25(5), 685-700. doi: 10.1175/2007jtecha1034.1

## UAF Faculty Peer-Reviewed Publications 2008

122. **Carouthers, C.** (2008). "Rationalized out:" Discourses and realities of fisheries privatization in Kodiak, Alaska. In M. Lowe & C. Carothers (Eds.), *Enclosing the Fisheries: People, Places, and Power.*: American Fisheries Society Press.
123. Cebrian, M. R., **Kielland, K.**, & Finstad, G. (2008). Forage quality and reindeer productivity: Multiplier effects amplified by climate change. *Arctic Antarctic and Alpine Research*, 40(1), 48-54. doi: 10.1657/1523-0430(06-073)[cebrian]2.0.co;2
124. Cebrian, M.R., Kielland, K., & **Finstad, G.L.** (2008). Forage quality and reindeer productivity: multiplier effects amplified by climatic change. *Arctic and Alpine Research*, 40(1), 48-54.
125. **Cee, V. J.** (2008). "Review of "Lewis & Clark Tribute" by Thom Sharp." *American String Teacher* 58(1).
126. **Cee, V. J.** (2008). "Review of "Succeed as a String Player! Teen Strings Shows you how. Ed. Megan Westberg." *American String Teacher* 58(3).
127. Chab, D., Kolar, J., **Olson, M. S.**, & Storchova, H. (2008). Two FLOWERING LOCUS T (FT) homologs in *Chenopodium rubrum* differ in expression patterns. *Planta*, 228(6), 929-940. doi: 10.1007/s00425-008-0792-3
128. Chambers, MK, **Ford, MR, White, DM, Barnes, DL, & Schiewer, S.** (2008). Distribution and Transport of Fecal Bacteria at Spring Thaw in a Rural alaskan Community. *Cold Regions Science and Technology*, 22(1), 16-37. doi: doi: 10.1061/(ASCE)0887-381X(2008)22:1(16)
129. Chambers, M., Malcolm, R. Ford, **Daniel, M. White, David, L. Barnes, & Silke, Schiewer.** (2008). Distribution and Transport of Fecal Bacteria at Spring Thaw in a Rural Alaskan Community. *Journal of Cold Regions Engineering*, 22(1), 16-37.
130. Chanton, JP, & **Walter, KM.** (2008). Siberian Permafrost Decomposition, Arctic Lakes and Carbon. . *Development and Transition*.
131. **Chapin, F. S.**, Grens, K., Katsnelson, A., Gawrylewski, A., Zielinska, E., & Scheff, J. (2008). Climate change and the biosphere. *Scientist*, 22(1), 36-42.
132. **Chapin, F. S.**, Randerson, J. T., **McGuire, A. D.**, Foley, J. A., & Field, C. B. (2008). Changing feedbacks in the climate-biosphere system. *Frontiers in Ecology and the Environment*, 6(6), 313-320. doi: 10.1890/080005
133. **Chapin, F. S.**, Trainor, S. F., Huntington, O., Lovcraft, A. L., Zavaleta, E., Natcher, D. C., . . . Naylor, R. L. (2008). Increasing wildfire in Alaska's boreal forest: Pathways to potential solutions of a wicked problem. *Bioscience*, 58(6), 531-540. doi: 10.1641/b580609
134. **Chapin III, F. Stuart**, Randerson, James T., **McGuire, A. David**, Foley, Jonathan A., & Field, Christopher B. (2008). Changing feedbacks in the climate-biosphere system. *Frontiers in Ecology and the Environment*, 6(6), 313-320.

## UAF Faculty Peer-Reviewed Publications 2008

135. **Chapin III, F. Stuart**, Trainor, Sarah F., Huntington, Orville, Lovecraft, Amy L., Zavaleta, Erika, Natcher, David C., . . . Naylor, Rosamond. (2008). Increasing wildlife in Alaska's boreal forest: Pathways to potential solutions of a wicked problem. *Bioscience*, 58(6), 531-540.
136. Chapin III, F. Stuart, **Trainor, Sarah F.**, Huntington, Orville, **Lovecraft, Amy L.**, Zavaleta, Erika, Natcher, David C., . . . Naylor, Rosamond L. (2008). Increasing Wildfire in Alaska's Boreal Forest: Pathways to Potential Solutions of a Wicked Problem. [Article]. *Bioscience*, 58(6), 531-540. doi: 10.1641/b580609
137. Chapin III., F.S. , **Trainor, Sarah F.**, Huntington, O., Lovecraft, A.L., Zavaleta, E., Natcher, D.C., . . . Naylor, R. (2008). Increasing Wildfire in Alaska's Boreal Forest: Causes, Consequences, and Pathways to Potential Solutions of a Wicked Problem. *Biosciences*, 58, 531-540.
138. **Chappell, G. G.**, **Gimbel, J.**, & **Hartman, C.** (2008). Bounds on the metric and partition dimensions of a graph. *Ars Combinatoria*, 88, 349-366.
139. Chappelow, J.E., & **Herrick, R.R.** (2008). On the origin of a double, oblique impact on Mars. *Icarus*, 197, 452-457.
140. **Chappelow, J.E.; Herrick, R.R.** (2008). On the origin of a double, oblique impact on Mars. *Icarus*, 197, 6. doi: 10.1016/j.icarus.2008.06.001
141. Chen, Bing, & **Liu, Juanyu**. (2008). Damage in carbon fiber-reinforced concrete, monitored by both electrical resistance measurement and acoustic emission analysis. *Construction and Building Materials*, 22(11), 2196-2201. doi: DOI: 10.1016/j.conbuildmat.2007.08.004
142. Chen, Bing, & **Liu, Juanyu**. (2008). Experimental application of mineral admixtures in lightweight concrete with high strength and workability. *Construction and Building Materials*, 22(4), 655-659. doi: DOI: 10.1016/j.conbuildmat.2006.10.006
143. **Chen, C.** (2008). Effect of underfill filler settling on thermomechanical fatigue analysis of flip-chip eutectic solders. *Microelectronis Reliability*, 48(7), 12. doi: 10.1016/j.microrel.2008.03.022
144. **Chen, C.; Drew, K.L.** (2008). Droplet-based microdialysis –concept, theory, and design consideration. *Journal of Chromatography A*, 1209(1-2), 8. doi: 10.1016/j.chroma.2008.09.006
145. Chen, C. F., & **Drew, K. L.** (2008). Droplet-based microdialysis-Concept, theory, and design considerations. *Journal of Chromatography A*, 1209(1-2), 29-36. doi: 10.1016/j.chroma.2008.09.006
146. **Chen, C.;** Karulkar, P.C. (2008). Underfill filler settling effect on the die backside interfacial stresses of flip chip packages. *Journal of Electronic Packaging*, 130(3), 10. doi: 10.1115/1.2957324
147. Chen, T. L., Wise, S., Kraus, S., **O'Hara, T.**, Kerr, I. A. R., Payne, R., & Wise, J. P. (2008). (Genotoxicity of mercury in the north Atlantic right whale

## UAF Faculty Peer-Reviewed Publications 2008

- (Eubalaena, glacialis) and in the sperm whale (Physeter macrocephalus). *Marine Environmental Research*, 66(1), 66-67.
148. Chenelot, H., **Jewett, S.**, & Hoberg, M. (2008). Invertebrate communities associated with various substrates in the nearshore eastern Aleutian Islands, with emphasis on thick crustose coralline algae. In P. Bruggeman & N.W. Pollock (Eds.), *Diving for Science 2008. Proceedings of the 27th American Academy of Underwater Sciences Symposium* (pp. 13-36): AAUS.
149. **Cherry, J.** (2008). Assessing Changes in Eurasian Hydroclimatology-A Workshop Report. *WCAP-SCAR Clic: Ice and Climate News*, 11.
150. **Cherry, J.E.**, Déry, S., & Stieglitz, M. Climate and Hydrology of the Toolik Field Station and its Context. In John Hobbie (Ed.), *Toolik Lake Long Term Ecological Research Station*: Oxford University Press.
151. **Cherry, J.**, & participants, &. (2008). Eurasian Hydroclimatology: Observations, Change, Attribution, and Impacts. *Workshop Recommendations (short and long versions)*.
152. Cheyette, D.L., **Rupp, T.S.**, & Rodman, S. (2008). Developing fire behavior fuel models for the wildland-urban interface in Anchorage, Alaska. *Western Journal of Applied Forestry*, 23, 149-155.
153. Chien-Lu Ping, Michaelson, G.J., Jorgenson, M.T., Kimble, J.M., Epstein, H.E, **Romanovsky, V.E.**, & Walker, D.A. (2008). High stocks of soil organic carbon in North American Arctic region. *Nature Geoscience*. doi: doi10.1038/ngeo284
154. Chisham, G., Lester, M., Milan, S.E., Freeman, M.P., **Bristow, W.A.**, Grocott, A., . . . Walker, A.D.M. (2008). A decade of the Super Dual Auroral Radar Network (SuperDARN): scientific achievements, new techniques and future directions *Surveys in Geophysics*. doi: 10.1007/s10712-007-9017-8
155. Christian, S.L., Ross, A.P., Zhao, H.W., Kristenson, H.J., Zhan, X., Rasley, B.T., . . . **Drew, K.L.** (2008). Arctic ground squirrel (*Spermophilus parryii*) hippocampal neurons tolerate prolonged oxygen–glucose deprivation and maintain baseline ERK1/2 and JNK activation despite drastic ATP loss. *Journal of Cerebral Blood Flow & Metabolism*, 28(7), 1307-1319.
156. Christian, S. L., Ross, A. P., Zhao, H. W. W., Kristenson, H. J., Zhan, X. H., **Rasley, B.T.**, . . . **Drew, K. L.** (2008). Arctic ground squirrel (*Spermophilus parryii*) hippocampal neurons tolerate prolonged oxygen-glucose deprivation and maintain baseline ERK1/2 and JNK activation despite drastic ATP loss. *Journal of Cerebral Blood Flow and Metabolism*, 28(7), 1307-1319. doi: 10.1038/jcbfm.2008.20
157. Church, R., Warren, D., Cullimore, R., Schroeder, W., Patterson, W., **Shirley, T.**, . . . Johnston, L. (2008). *A study of living history: Deep WWII shipwrecks in the Gulf of Mexico*: The Past Foundation.
158. **Clausen, T. P.**, **Green, T. K.**, & Steiner, B. (2008). Use of the chemical literature as a template to probe stereoselective reactions by NMR. *Journal of*

## UAF Faculty Peer-Reviewed Publications 2008

- Chemical Education*, 85(5), 692-694.
159. Clilverd, H. M., **Jones, J. B.**, & **Kielland, K.** (2008). Nitrogen retention in the hyporheic zone of a glacial river in interior Alaska. *Biogeochemistry*, 88(1), 31-46. doi: 10.1007/s10533-008-9192-9
160. **Cole, T.** (2008). "Klondike Literature." Columbia: The Magazine of Northwest History 22(2): 9-16.
161. Connor, C., **Prakash, A.**, & Brownlee, M. (2008). GIS In Alaska's Grades 6-12 Earth Science Environment: The Experiential Discoveries in Geoscience Education Project. *Geological Society of America*.
162. Connor, C.L., & **Prakash, A.** (2008). Experiential Discoveries in Geoscience Education: The EDGE Program in Alaska. *Journal of Geoscience Education*, 56(2), 179-186.
163. **Cook, C.R., Strange, A., & Renes, S.** (2008). Counsellor Training via Distance Education: Opportunities for Rural Alaskan Communities. *The Northern Review*, 28, 230-245.
164. **Cooper, C.** (2008). "Assign this: building self-efficacy for class success." Spectra 44.
165. Corell, RW, Hassol, SJ, Melillo, JM, Archer, D, Euskirchen, E, Chapin III, FS, **Walter, K.** . . . McMullen, C. (2008). *Methane from the Arctic: Global Warming Wildcard*. Nairobi, Kenya: United Nations Environment Programme.
166. **Coyle, K.O.**, Pinchuk, A.I., Eisner, L.B., & Napp, J.M. (2008). Zooplankton species composition, abundance and biomass on the eastern Bering Sea shelf during summer: The potential role of water-column stability and nutrients in structuring the zooplankton community. *Deep Sea Research Part II: Topical Studies in Oceanography*, 55(16-17), 1775-1791.
167. Craig, E., & **Huettmann, F.** (2008). Using "Blackbox" algorithms such as TreeNet and random forests for data-mining and for finding meaningful patterns, relationships, and outliers: An overview, an Example using golden eagle satellite data and an outlook for a promising future. In H. F. Wang (Ed.), *Intelligent Data Analysis* (pp. 65-84).
168. Criddle, K., & **Herrmann, Mark.** (2008). A State Space Bioeconomic Model of Pacific Halibut. [Refereed Journal Article]. *Natural Resource Modelling*, 21(1), 117-147.
169. **Criddle, K.R.** (2008). Examining the interface between commercial and sport fishing: a property rights perspective. In D.R. Leal & V Maharaj (Eds.), *Evolving Approaches to Managing Marine Recreational Fisheries*. Lanham, M.D: Rowman & Littlefield Publishers.
170. **Criddle, K.R.** (2008). The legal context of US fisheries management and the evolution of rights-based management in Alaska. In R. Townsend, R. Shotton & H. Uchida (Eds.), *Fisheries Self Governance* (pp. 369-382). Rome: UN FAO.

## UAF Faculty Peer-Reviewed Publications 2008

171. **Criddle, K.R.**, Amos, A.F., Caroll, P., Coe, J.M., Donohue, M.J., Harris, J.H., . . . Young, N.M. . (2008). *Tackling Marine Debris in the 21st Century*. Washington DC National Research Council, National Academy Press.
172. **Criddle, K.R.**, & Herrmann, M. (2008). A state space bioeconomic model of Pacific halibut. *Natural Resource Modeling*, 21(1), 117-147.
173. Cross, R.S., & **Freymueller, J.T.** (2008). Evidence for and implications of a Bering plate based on geodetic measurements from the Aleutians and western Alaska. *Journal of Geophysical Research*, 113(B07405). doi: 10.1029/2007JB005136\_
174. **Crouse, D.** (2008). *The Man Back There*, Sarabande Books.
175. **Cundiff, Nicole.** (2008). Gender Differences in Ethnocultural Empathy and Attitudes Toward Men and Women in Authority. [Refereed Journal Article]. *Journal of Leadership and Organizational Studies*, 15(1), 5-15.
176. Daanen, R. P., Misra, D., Epstein, H., **Walker, D.**, & **Romanovsky, V.** (2008). Simulating nonsorted circle development in arctic tundra ecosystems. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s06 10.1029/2008jg000682
177. **Daanen, R.P.**, Misra, D., Epstein, H.E, Walker, D. , & **Romanovsky, V.E.** (2008). Simulating non-sorted circle development in arctic tundra ecosystems. *Journal of Geophysical Research*, 113(G03S06). doi: 10.1029/2008JG000682
178. Daly, B., & **Konar, B.** (2008). Effects of macroalgal structural complexity on nearshore larval and post-larval crab composition. *Marine Biology*, 153(6), 1055-1064. doi: DOI 10.1007/s00227-007-0878-7
179. Dana, R. H. and **J. Allen**, Eds. (2008). Cultural Competency Training in a Global Society. NY, Springer.
180. Dana, R. H. and **J. Allen** (2008). Globalization: Psychological problems and social need. CulturalCompetency Training in a Global Society., R. In Dana and J. e. H. & Allen. NY, Springer: pp. 25-42).
181. Dana, R. H. and **J. Allen** (2008). The human face of globalization,., Cultural Competency Training in a Global Society., R. H. Dana and J. Allen. NY, Springer: pp. 5-24).
182. **Danielides, M.A**, **Lummerzheim, D.**, & **Otto, A.** (2008). A Three Fluid Simulation of Up-welling Plasma Above Auroral Structures. *Adv. in Space Res.*
183. **Darrow, Margaret M.**, **Huang, Scott L.**, **Shur, Yuri**, & Akagawa, Satoshi. (2008). Improvements in Frost Heave Laboratory Testing of Fine-Grained Soils. [Article]. *Journal of Cold Regions Engineering*, 22(3), 65-78. doi: 10.1061/(asce)0887-381x(2008)22:3(65)
184. Daugherty, D.J., Bacula, T.D., & **Sutton, T.M.** (2008). Reproductive biology of blue sucker in a large Midwestern river. *Journal of Applied Ichthyology*,

## UAF Faculty Peer-Reviewed Publications 2008

- 24(3), 297-302. doi: DOI 10.1111/j.1439-0426.2007.01042.x
185. Daugherty, D.J., **Sutton, T.M.**, & Elliott, R.F. (2008). Potential for reintroduction of lake sturgeon in five northern Lake Michigan tributaries: a habitat suitability perspective. *Aquatic Conservation-Marine and Freshwater Ecosystems*, 18(5), 692-702. doi: Doi 10.1002/Aqc.878
  186. David Schweingruber, A. C., and **Sine Anahita**. (2008). "'A Story and a Ring: Audience Judgments About Engagement Proposals.'" *Sex Roles* 58((3-4)): 165-178.
  187. Davis, C.S., & **Hopcroft, R.R.** (2008). The drifters. *Ocean Geographic Magazine*(July), 23-40.
  188. **Davis, Mike**, & Largay III, J.A. (2008). Consolidated Financial Statements Major Changes Coming! [Refereed Journal Article]. *CPA Journal*, 26-31.
  189. Dennis, M. M., Nelson, S. N., Cantor, G. H., Mosier, D. A., **Blake, J. E.**, & Basaraba, R. J. (2008). Assessment of necropsy findings in sled dogs that died during Iditarod Trail sled dog races: 23 cases (1994-2006). *Javma-Journal of the American Veterinary Medical Association*, 232(4), 564-573.
  190. Derakhshandi, Mehdi, Rathje, Ellen M., **Hazirbaba, Kenan**, & Mirhosseini, S. M. (2008). The effect of plastic fines on the pore pressure generation characteristics of saturated sands. *Soil Dynamics and Earthquake Engineering*, 28(5), 376-386. doi: DOI: 10.1016/j.soildyn.2007.07.002
  191. Desai, Ankur, Noormets, Askko, Bolstad, Paul V., Chen, Jiquan, Cook, Bruce D., Davis, Kenneth J., **Eugenie S.** . . Wang, Weiguo. (2008). Influence of vegetation and seasonal forcing on carbon dioxide fluxes across the Upper Midwest, USA: Implications for regional scaling. *Agricultural and Forest Meteorology*, 148, 288-308.
  192. Deshmukh, V., Butcher, E. A., & **Bueler, E.** (2008). Dimensional reduction of nonlinear delay differential equations with periodic coefficients using Chebyshev spectral collocation. *Nonlinear Dynamics*, 52(1-2), 137-149. doi: 10.1007/s11071-007-9266-6
  193. Diggs, B. S., Richard J. Mullins, Jerris R. Hedges, **Melanie Arthur**, Craig D. Newgard (2008). "Proportion of Seriously Injured Patients Admitted to Hospitals in the US with a High Annual Injured Patient Volume: A Metric of Regionalized Trauma Care." *Journal of the American College of Surgeons* 206(2): 212-219.
  194. Dinesh, M, **Ganguli, R.**, Dutta, S, & **Bandopadhyay, S.** (2008). Non-impact of Particle Size Distribution on Power Generation at a Pulverized Coal Power Plant Burning Low Rank Alaska Coal. *Journal of Fuel Processing Technology*, 89(5), 499-502.
  195. Dixon, J.P., **McNutt, S.**, Power, J.A., & **West, M.** (2008). Twenty years of Alaska Volcano Observatory's contributions to seismology. *EOS Trans, AGU*(89), 53.



## UAF Faculty Peer-Reviewed Publications 2008

196. Domine, F., Albert, M., Huthwelker, T., Jacobi, H. W., Kokhanovsky, A. A., Lehning, M., . . . **Simpson, W. R.** (2008). Snow physics as relevant to snow photochemistry. *Atmospheric Chemistry and Physics*, 8(2), 171-208.
197. Dong, J.H. , Cheng, X.F., Yin, Y.Y., Fang, Q., Ding, M., Li, T.T., **McBeath, J.H.**, . . . Zhang, Z.Z. (2008). Characterization of tomato zonate spot virus, a new tospovirus in China *Archives of Virology*, 153(5), 855-864. doi: 10.1007/s00705-008-0054-5
198. Dou, F., **Ping, C.L.**, Guo, L. , & Jorgenson, M.T. (2008). Estimating the Impact of Seawater on the Production of Soil Water-Extractable Organic Carbon during Coastal Erosion. [Technical report]. *Soil Science Society of America*, 37(6), 2368-2374.
199. Douglas, H. D., **Kitaysky, A. S.**, & Kitaiskaia, E. V. (2008). Seasonal covariation in progesterone and odorant emissions among breeding crested auklets (*Aethia cristatella*). *Hormones and Behavior*, 54(2), 325-329. doi: 10.1016/j.yhbeh.2008.03.003
200. Douglas III, Hector D., **Kitaysky, Alexander S.**, & Kitaiskaia, Evgenia V. (2008). Seasonal covariation in progesterone and odorant emissions among breeding crested auklets (*Aethia cristatella*). *Hormones and Behavior*, 54, 325-329.
201. Douglas, T., Walsh, M. E., **Trainor, T. P.**, Jones, A., McGrath, C. J., & Weiss, C. (2008). COLL 151-Breakdown of nitramine (RDX, HMX) and nitroaromatic (TNT) explosives on soil surfaces. *Abstracts of Papers of the American Chemical Society*, 235, 151-COLL.
202. Douglas, T. A., Sturm, M., **Simpson, W. R.**, Blum, J. D., Alvarez-Aviles, L., Keeler, G. J., . . . Johnson, K. (2008). Influence of snow and ice crystal formation and accumulation on mercury deposition to the Arctic. *Environmental Science & Technology*, 42(5), 1542-1551. doi: 10.1021/es070502d
203. Droege, S. B., & **Dong, Lily (Chunlian)**. (2008). Strategic Entrepreneurship: Imitation Versus Substitution. [Refereed Journal Article]. *Journal of Small Business Strategy*, 19(1), 55-67.
204. **Druckenmiller, P. S.**, & Russell, A. P. (2008). A phylogeny of Plesiosauria (Sauropterygia) and its bearing on the systematic status of *Leptocleidus* Andrews, 1922. *Zootaxa*(1863), 1-120.
205. **Druckenmiller, P. S.**, & Russell, A. P. (2008). Skeletal anatomy of an exceptionally complete specimen of a new genus of plesiosaur from the early cretaceous (Early Albian) of northeastern Alberta, Canada. *Palaeontographica Abteilung a-Palaozoologie-Stratigraphie*, 283(1-3), 1-33.
206. Dugan, V.G., Chen, R., Spiro, D.J., Sengamalay, N., Zaborsky, J., Ghedin, E., . . . Taubenberger, J.K. (2008). The Evolutionary Genetics and Emergence of Avian Influenza Viruses in Wild Birds. *PLoS Pathogens*, 4(5), 1-9.

## UAF Faculty Peer-Reviewed Publications 2008

207. **Dunlap, K. L.**, Reynolds, A. J., Tosinib, G., Kerr, W. W., & **Duffy, L. K.** (2008). Seasonal and diurnal melatonin production in exercising sled dogs (vol 147, pg 863, 2007). *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology*, 149(3), 339-339. doi: 10.1016/j.cbpa.2008.01.006
208. Ebert, U., & **Sentman, D.D.** (2008). Streamers, sprites and lightning. *J. Phys. D.:Appl. Phys*, 41(23). doi: 10.1088/0022-3727/41/23/230301
209. Ebert, U., & **Sentman, D. D.** (2008). Streamers, sprites, leaders, lightning: from micro- to macroscales. *Journal of Physics D-Applied Physics*, 41(23). doi: 23030110.1088/0022-3727/41/23/230301
210. Eckerth, J. **S., S** (2008). Research on task-based language learning and teaching. Theoretical, methodological and pedagogical perspectives. New York, Lang.
211. Eicken, H., **Hartmann, A.**, and **Lovecraft, A** (2008). "North by 2020: A forum for local and global perspectives on the north.." Shared Voices- International Polar Year Legacy Edition 34.
212. Ejoifor, N, Patil, S., Chukwu, G., **Reynolds, Douglas**, & Khataniar, S. (2008). Economic Appraisal of Transporting Gas-to-Liquids Products through the Trans-Alaska Pipeline System (TAPS). [Refereed Journal Article]. *Energy Sources, Part B: Economics, Planning and Policy*, 3, 196-202.
213. Elphic, R. C., Chu, P., Hahn, S., James, M. R., Lawrence, D. J., Prettyman, T. H., **J. B. Johnson** . . . Podgorney, R. K. (2008). Surface and Downhole Prospecting Tools for Planetary Exploration: Tests of Neutron and Gamma Ray Probes. *Astrobiology*, 8(3), 639-652.
214. Ely, C. R., Pearce, J. M., & **Ruess, R. W.** (2008). Nesting Biology of Lesser Canada Geese, *Branta canadensis parvipes*, along the Tanana River, Alaska. *Canadian Field-Naturalist*, 122(1), 29-33.
215. Epstein, H. E., **Walker, D. A.**, Reynolds, M. K., Jia, G. J., & Kelley, A. M. (2008). Phytomass patterns across a temperature gradient of the North American arctic tundra. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s0210.1029/2007jg000555
216. Erdoğdu, F., & **Balaban, M.O.** . (2008). Complex method optimization. In F. Erdoğdu (Ed.), *Optimization in Food Engineering* (pp. 294-304). Boca Raton, Florida: CRC Press,.
217. Evans, A. L. , Bey, R.F., Schoster, J.V., Gaarder, J.E., & **Finstad, G.L.** (2008). Preliminary studies on the etiology of keratoconjunctivitis in reindeer (*Rangifer tarandus tarandus*) calves in Alaska. *Journal of Wildlife Diseases*, 44(4), 1051-1055.
218. Falk, A., **Green, T. K.**, & **Barboza, P.** (2008). Quantitative determination of secondary metabolites in *Cladina stellaris* and other lichens by micellar electrokinetic chromatography. *Journal of Chromatography A*, 1182(1), 141-144. doi: 10.1016/j.chroma.2007.12.035

## UAF Faculty Peer-Reviewed Publications 2008

219. Fan, X.; **Walsh, J.E.**; Krieger, J.R. (2008). A one-year experimental Arctic reanalysis and comparisons with ERA-40 and NCEP/NCAR reanalyses. *Geophysical Research Letters*, 35(19). doi: 10.1029/2008GL035110
220. Fang, X., Randall, D., **Lummerzheim, D.**, Soloman, S.C., Mills, M.J., Marsh, D.R., . . . Lu, G. (2008). Electron impact ionization: A new parameterization for 100 eV to 1 MeV electrons. *Journal of Geophysical Research*, 113(A09311). doi: 10.1029/2008JA013384
221. **Faudree, J. R.**, Faudree, R. J., & Ryjacek, Z. (2008). Forbidden subgraphs that imply 2-factors. *Discrete Mathematics*, 308(9), 1571-1582. doi: 10.1016/j.disc.2007.04.014
222. **Fazzino, D.** (2008). "Continuity and Change in Tohono O'odham Food Systems: Implications for Dietary Interventions." *Culture and Agriculture* 30(1): 38-46.
223. Fellman, J. B., D'Amore, D. V., Hood, E., & **Boone, R. D.** (2008). Fluorescence characteristics and biodegradability of dissolved organic matter in forest and wetland soils from coastal temperate watersheds in southeast Alaska. *Biogeochemistry*, 88(2), 169-184. doi: 10.1007/s10533-008-9203-x
224. Ferrentino, G., Ferrari, G., Poletto, M., & **Balaban, M.O.** (2008). Microbial Inactivation Kinetics during High-Pressure Carbon Dioxide Treatment: Nonlinear Model for the Combined Effect of Temperature and Pressure in Apple Juice. *Journal of Food Science*, 73(8), E389-E395. doi: DOI 10.1111/j.1750-3841.2008.00920.x
225. **Filler, DM**, **Barnes, DL**, Snape, I, & **Johnson, RA.** (2008). *Thermally Enhanced Bioremediation and Integrated Engineered Designs*: Cambridge University Press.
226. Finney, B., Turner, S., Hawkesworth, C., **Larsen, J.**, Nye, C., George, R., . . . **Eichelberger, J.** (2008). Magmatic differentiation at an island-arc caldera: Okmok volcano, Aleutian Islands, Alaska. *Journal of Petrology*, 49(5), 857-884. doi: 10.1093/petrology/egn008
227. Fiorillo, A.R., **McCarthy, P.J.**, **Flaig, P.P.**, Brandlen, E., Norton, D.W., Zippi, P., . . . Gangloff, R.A. (2008). Paleontology and paleoenvironmental interpretation of the Kikak-Tegoseak Quarry (Prince Creek Formation: Late Cretaceous), northern Alaska: a multi-disciplinary study of a high-latitude ceratopsian dinosaur bonebed. *New Perspectives on Horned Dinosaurs*.
228. **Fochesatto, Javier**, **Collins, Richard**, **Sassen, Ken**, Quantz, H., & Gramapuran, K. (2008). Eye-Safe Polarization Diversity Lidar for aerosol studies: Design and preliminary applications. *International Journal of High Speed Electronics and Systems*, 18(3), 713-726.
229. **Fochesatto, Javier**, & Sloan, J. (2008). Signal processing of multicomponent Raman spectra of particulate matter. *International Journal of High Speed Electronics and Systems*, 18(2), 277-294.
230. **Fochesatto, J.**; **Collins, R.L.**; **Sassen, K.**; Quantz, H.; Ganapuran, K.

## UAF Faculty Peer-Reviewed Publications 2008

- (2008). Eye-Safe Polarization Diversity Lidar for Aerosol Studies: design and preliminary applications. *International Journal of High Speed Electronics and Systems*, 18(3), 14. doi: 10.1142/S0129156408005680
231. **Fochesatto, J.**; Sloan, J. (2008). Signal Processing of Multicomponent Raman Spectra of Particulate Matter. *International Journal of High Speed Electronics and Systems*, 18(2), 18. doi: 10.1142/S0129156408005345
232. Fogel, M.L., **Wooller, M.J.**, Cheeseman, J., Smallwood, B.J., Roberts, Q., Romero, I., & Meyers, M.J. (2008). Unusually negative nitrogen isotopic compositions ( $\delta N-15$ ) of mangroves and lichens in an oligotrophic, microbially-influenced ecosystem. *Biogeosciences*, 5(6), 1693-1704.
233. Fournier, T., & **Freymueller, J.** (2008). Inflation detected at Mount Veniaminof, Alaska, with campaign GPS. *Geophysical Research Letters*, 35(20). doi: L2030610.1029/2008gl035503
234. Fournier, T., & **Freymueller, J.T.** (2008). Inflation detected at Mount Veniaminof, Alaska, with campaign GPS. *Geophys Res Lett*, 35(L20306). doi: 10.1029/2008GL035503
235. **Fox, J.D.** (2008). The Farthest North Forest Sports Festival = Bragging Rights! *Western Forester*, 25(1), 18.
236. Frank, C. L., Karpovich, S., & **Barnes, B. M.** (2008). Dietary fatty acid composition and the hibernation patterns in free-ranging arctic ground squirrels. *Physiological and Biochemical Zoology*, 81(4), 486-495. doi: 10.1086/589107
237. French, N.H., Kasischke, E..S., Hall, R..J. , Murphy, K. A. , **Verbyla, D. L.** , Hoy, E. E. , & Allen, J. L. . (2008). Using Landsat data to assess fire and burn severity in the North American boreal forest regions: an overview and summary of results. *International Journal of Wildland Fire*, 17, 443-462.
238. **Fresco, N.**, & **Scott, T.R.** (2008). SNAP Preliminary Report to the Governor's Sub-Cabinet on Climate Change. *Agricultural and Forestry Experiment Station Miscellaneous Publication*(MP 2008-06), 24.
239. **Freymueller, J.T.**, Woodard, H., Cohen, S., Cross, R.S., **Elliot, J.**, **Larsen, Christopher**, . . . Zweck, C. (2008). Active deformation processes in Alaska, based on 15 years of GPS measurements. *Active Tectonics and Siesmic Potential of Alaska, AGU Geophysical Monograph*(179), 1-42.
240. **Ganquli, R.** & **Bandopadhyay, S.** (2008). Field Scale Investigation of Pulverized coal Mill Power Consumption *Minerals and Metallurgical Processing Journal, Society for Mining, Metallurgy and Exploration, Inc.*, 25(3), 139-142.
241. Garron, J. (2008). End of an era for experimental oil spill sites. *Agroborealis*, 39(2), 25-27.
242. Gazal, R. , White, M., Gillies, R., Rodemaker, E., **Sparrow, E.B.**, & Gordon, L. (2008). GLOBE students, teachers, and scientists demonstrate variable

## UAF Faculty Peer-Reviewed Publications 2008

- differences between urban and rural leaf phenology along a multi-continent bioclimatic gradient. *Global Change Biology*, 14, 1-13. doi: 10.1111/j.1365-2486.2008.01602.x
243. **Geier, H.** (2008). Year 2007 Economic Impact of the Boeing Ground-Based Mid-Course Defense (GMD) Program: Alaska Operations 2007. *Agricultural and Forestry Experiment Station Miscellaneous Publication*(RPT 2008-01), 14.
244. Geml, J., **Laursen, G. A.**, & **Taylor, D. L.** (2008). Molecular diversity assessment of arctic and boreal *Agaricus* taxa. *Mycologia*, 100(4), 577-589. doi: 10.3852/07-042r1
245. Geml, J., Tulloss, R. E., Laursen, G. A., Sazanova, N. A., & **Taylor, D. L.** (2008). Evidence for strong inter- and intracontinental phylogeographic structure in *Amanita muscaria*, a wind-dispersed ectomycorrhizal basidiomycete. *Molecular Phylogenetics and Evolution*, 48(2), 694-701. doi: 10.1016/j.ympev.2008.04.029
246. **Gens, R.**, **Prakash, A.**, & **Li, S.** (2008). Mapping deforestation in parts of the Amazon forest using JERS-1 SAR images: Case study for an area north west of Rondonia, Brazil. *EOS Trans*, 89(53).
247. George, M.R., McDougald, N.K., Jensen, W.A., Larsen, R.E., Cao, D.C., & **Harris, N.R.** (2008). Effectiveness of nutrient supplement placement for changing beef cow distribution. *Journal of Soil and Water Conservation*, 63(1), 11-17.
248. Glover, A. G., Smith, C. R., **Mincks, S. L.**, Sumida, P. Y. G., & Thurber, A. R. (2008). Macrofaunal abundance and composition on the West Antarctic Peninsula continental shelf: Evidence for a sediment 'food bank' and similarities to deep-sea habitats. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(22-23), 2491-2501. doi: 10.1016/j.dsr2.2008.06.008
249. **Goering, Greg.** (2008). Socially Concerned Firms and the Provision of Durable-Goods. [Refereed Journal Article]. *Economic Modelling*, 25(3), 575-583.
250. **Goering, Greg.** (2008). Welfare Impacts of a Non-Profit Firm in Mixed Commercial Markets. [Refereed Journal Article]. *Economic Systems*, 32(4), 326-334.
251. Gomes, L., & **Bogossyan, S.** (2008). Editorial. *Industrial Electronics, IEEE Transactions on*, 55(6), 2324-2325.
252. Gonzalez, G., Gould, A. T., Hudak, A.T., & **Hollingsworth, T.N.** (2008). Decay of Aspen (*Populus tremuloides* Michx.) Wood in Moist and Dry Boreal, Temperate, and Tropical Forest Fragments. *Ambio*, 37(7-8), 588-597.
253. González, G. , Gould, W.A. , Hudak, A.T., & **Hollingsworth, T.N.** (2008). Decay of aspen (*Populus tremuloides* Michx.) wood in moist and dry boreal, temperate and tropical forest fragments *Ambio*, 37(7-8), 588-597.

## UAF Faculty Peer-Reviewed Publications 2008

254. **Gouin, T.**, Shoeib, M., & Harner, T. (2008). Atmospheric concentrations of current-use pesticides across south-central Ontario using monthly-resolved passive air samplers. *Atmospheric Environment*, 42(34), 8096-8104. doi: 10.1016/j.atmosenv.2008.05.070
255. **Gouin, T.**, Wania, F., Ruepert, C., & **Castillo, L. E.** (2008). Field testing passive air samplers for current use pesticides in a tropical environment. *Environmental Science & Technology*, 42(17), 6625-6630. doi: 10.1021/es8008425
256. Gould, William A., Gonzalez, Grizelle, Hudak, Andrew T., **Hollingsworth, Teresa Nettleton**, & Hollingsworth, Jamie. (2008). Forest Structure and Downed Woody Debris in Boreal, Temperate, and Tropical Forest Fragments. *Ambio*, 37(7), 577-587.
257. Gould, W.A., González, G., Hudak, A.T., **Hollingsworth, T.N.**, & J., Hollingsworth. (2008). Forest structure and downed woody debris in boreal, temperate, and tropical forest fragments. *Ambio*, 37(7-8), 577-587.
258. Greene, H.G., O'Connell, V., Brylinsky, C., & **Reynolds, J.R.** (2008). Marine benthic habitat classification: What's best for Alaska? In J.R. Reynolds & H.G. Greene (Eds.), *Marine Habitat Mapping Technology for Alaska* (pp. 169-184). Fairbanks, Alaska: Alaska Sea Grant College Program.
259. **Grossweiner, K. A.** (2008). "Narrators and Narrating Characters: Voicing in *Le Roman De Flamenca*." *Neuphilologus* 92: 395-408.
260. Gustavsson, B., Kosch, M., Wong, A., Pederson, T., Heinselman, C., Mutiso, C., **Bristow, W.A.** . . . Wang, W. (2008). First estimates of volume distribution of HF-pump enhanced emissions at 6300 and 5577 Å: a comparison between observations and theory. *Annals of Geophysics*, 26, 3999-4012.
261. Guzzetti, B.M., Talbot, S.L., Tessler, D.F., Gill, V.A., & **Murphy, E.C.** (2008). Secrets in the eyes of Black Oystercatchers: A new sexing technique. *Journal of Field Ornithology*, 79(2), 215-223. **IAB**
262. **Hanks, C.L.** (2008). Unraveling the timing of fluid migration and trap formation in the Brooks Range foothills and southern Colville basin. *AETDL/DOE*.
263. Harris, A.J.L., Lodato, L., **Dehn, J.**, & Spampinato, L. (2008). Thermal characterization of fumarole fields I: A method of tracking thermal trends in infrared data. *Bull. Volcanol.* doi: 10.1007/s00445-008-0236-8
264. **Harrison, William, Motyka, Roman, Truffer, M.**, Eisen, O., Moran, M.T., Raymond, C.F., . . . Nolan, M. (2008). Another surge of Variegated Glacier, Alaska, USA, 2003/04. *J. Glaciol*, 54(184), 192-194.
265. Harrison, W. D., Motyka, R. J., **Truffer, M.**, Eisen, O., Moran, M. T., Raymond, C. F., . . . Nolan, M. (2008). Another surge of Variegated Glacier, Alaska, USA, 2003/04. *Journal of Glaciology*, 54(184), 192-194.
266. Hartman, K.J., & **Margraf, F.J.** (2008). Common relationships among

## UAF Faculty Peer-Reviewed Publications 2008

- proximate composition components in fish. *Journal of Fish Biology*, 73, 2352-2360.
267. Hartman, K.J., & **Margraf, F.J.** (2008). Common relationships among proximate composition components in fishes. *Journal of Fish Biology*, 73(10), 2352-2360.
268. **Hartmann, A. M.** (2008). Meaning of Life (opinion) Fairbanks Daily News-Miner: A-5.
269. Hasan, I., & **Zhou, Mingming.** (2008). Financial Sector Development and Growth: The Chinese Experience. In George Mavrotas (Ed.), *Domestic Resource Mobilization and Financial Development* (pp. 89-111): Palgrave MacMillan.
270. **Hay, B.** & **Nance, K.** (2008). Forensics Examination of Volatile System Data Using Virtual Introspection. *SIGOPS Oper. Syst. Rev.*, 42(3). doi: 10.1145/1368506.1368517
271. Hayes, M., & **Hanks, C.L.** (2008). Evolving mechanical stratigraphy during detachment folding. *Journal of Structural Geology*, 30, 548-564.
272. **Heaton, J.** (2008). Hydroelectric power from Eklutna: reclamation efforts to develop Southcentral Alaska during the Cold War era. Reclamation, Managing Water in the West, The Bureau of Reclamation: Hisotry essays from the Centennial Symposium, Government Printing Office. 2.
273. Hecht, J. H., Mulligan, T., Strickland, D. J., Kochenash, A. J., Murayama, Y., Tanaka, Y. M., **Conde, M. G.** . . . Morrison, D. (2008). Satellite and ground-based observations of auroral energy deposition and the effects on thermospheric composition during large geomagnetic storms: 1. Great geomagnetic storm of 20 November 2003. *Journal of Geophysical Research-Space Physics*, 113(A1). doi: A0131010.1029/2007ja012365
274. Herb Bunch Volunteers, **Holloway, P.S.**, Gardiner, E., & Matheke, G. (2008). Herb Evaluations 2007. *Agricultural and Forestry Experiment Station AFES Variety Trial(VT 2008-03.)*.
275. **Herman, Susan.** (2008). Teaching Contemporary Human Resource Management. [Refereed Journal Article]. *Journal of Management Education*, 32(2), 143-145.
276. Herter, H.L., & **Eckert, G.L.** (2008). Transport of Dungeness crab (*Cancer magister*) megalopae into Glacier Bay, Alaska. *Marine Ecology Progress Series*, 372, 181-194.
277. **Heyne, E.** (2008). "Review of: Jennifer Brice, Unlearning to Fly." Western American Literature 43(2).
278. **Heyne, E.** (2008). "Review of: Peggy Shumaker, Just Breathe Normally. ." Western American Literature 43(1).
279. **Heyne, E.** (2008). "Truth or Consequences: Individuality, Reference, and the Fiction/Nonfiction Distinction (Constructing Media Reality: The New

## UAF Faculty Peer-Reviewed Publications 2008

- Documentarism)." Zeitschrift für Anglistik und Amerikanistik: A Quarterly of Language, Literature, and Culture **56**(2): 117-127.
280. **Hock, R.**, Flowers, G., & Johannesson, T. (2008). Glaciers in watershed and global hydrology Preface. *Hydrological Processes*, *22*(19), 3887-3887. doi: 10.1002/hyp.7109
281. Hodges, M. R., Tattersall, G. J., **Harris, M. B.**, McEvoy, S. D., Richerson, D. N., Deneris, E. S., . . . Richerson, G. B. (2008). Defects in breathing and thermoregulation in mice with near-complete absence of central serotonin neurons. *Journal of Neuroscience*, *28*(10), 2495-2505. doi: 10.1523/jneurosci.4729-07.2008
282. Hodges, M.R., Tattersall, G.J., **Harris, M.B.**, McEvoy, S.E., Richerson, D.N., Deneris, E.S., . . . Richerson, G.B. (2008). Defects in Breathing and Thermoregulation in Mice with Near-Complete Absence of Central Serotonin Neurons. *Journal of Neuroscience*, *28*(10), 2495-2505.
283. Hollingsworth, T. N., Schuur, E. A. G., **Chapin, F. S.**, & **Walker, M. D.** (2008). Plant community composition as a predictor of regional soil carbon storage in Alaskan boreal black spruce ecosystems. *Ecosystems*, *11*(4), 629-642. doi: 10.1007/s10021-008-9147-y
284. Hollingsworth, T.N., Schuur, E.A.G., **Chapin III, F.S.**, & Walker, M.D. (2008). Plant Community Composition as a Predictor of Regional Soil Carbon Storage in Alaskan Boreal Black Spruce Ecosystems. *Ecosystems*, *11*, 629-642.
285. **Holloway, P.**, Matheke, G.E.M., Hanscom, J., Gardiner E, Weber, J., Hockstettler, G., . . . Smith, A. . (2008). Annual flowering plant evaluations 2007. . *Agricultural and Forestry Experiment Station AFES Variety Trial*(VT 2008-01.).
286. Holmes, A.L., Wise, S.S., Goertz, C.E.C., Dunn, J.L., Gulland, F.M.D., Gelatt, T., Wise, J.P., **Atkinson, S.**.. (2008). Metal tissue levels in Steller sea lion (*Eumetopias jubatus*) pups. *Marine Pollution Bulletin*, *56*(8), 1416-1421. doi: DOI 10.1016/j.marpolbul.2008.05.007
287. **Holton, G.**, Ed. (2008). Kamus Bahasa Pantar Barat (Companion Dictionary of Western Pantar). Kupang, Indonesia, UBB-GMIT.
288. **Holton, G.** (2008) Mapping Alaska's Native languages.
289. **Holton, G.**, Ed. (2008). Nûun Dínahtl'ăa': The Tanacross Animal Book. Fairbanks: Alaska.
290. **Holton, G.** (2008). The rise and fall of semantic alignment in North Halmahera, Indonesia. The Typology of Semantic Alignment. M. D. Søren and Wichmann, Oxford University Press: 252-276.
291. **Holton, G.**, Ed. (2008). Tanacross Sound System. Fairbanks: Alaska, Alaska Native Language Center.
292. Hongyan, G., Buchapudi, K.R., Smyth, A., **Schulte, M.K.**, & Ji, H.-F. (2008).



## UAF Faculty Peer-Reviewed Publications 2008

- An Improved Surface Modification Approach for Micromechanical Biosensors. *Lanmuir*, 24(2), 345-349.
293. Horning, M., Haulena, M., Tuomi, P.A., & **Mellish, J.A.E.** (2008). Intraperitoneal implantation of life-long telemetry transmitters in otariids. *Bmc Veterinary Research*, 4, -. doi: Artn 51Doi 10.1186/1746-6148-4-51
294. Horrillo, J., Knight, W., & **Kowalik, Z.** (2008). Kuril Islands tsunami of November 2006: 2. Impact at Crescent city by local enhancement. *Journal of Geophysical Research-Oceans*, 113, C01021. doi: 10.1029/2007jc004404
295. Horrillo, J.; Knight, W.; **Kowalik, Z.** (2008). Kuril Islands tsunami of November 2006: 2. Impact at Crescent City by local enhancement. *Journal of Geophysical Research*, 113(1), 12. doi: 10.1029/2007JC004404
296. **Howard, W. A.**, Pickett, Z. N., & Pang, K. L. (2008). INOR 163-((VO)-O-IV)(2)(ttha) (2)- (ttha = Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetate) as a model of the transferrin-vanadyl complex: X-ray structure of Na-2 (VO)(2)(ttha) (H<sub>2</sub>O)(8), density functional theory calculations, and the kinetics of the formation of (VO)(2)(ttha) (2-) from ttha(6-) and Bis(maltolato)oxovanadium(IV). *Abstracts of Papers of the American Chemical Society*, 235, 163-INOR.
297. Hrodey, P.J., Kalb, B.J., & **Sutton, T.M.** (2008). Macroinvertebrate community response to large-woody debris additions in small warmwater streams. *Hydrobiologia*, 605, 193-207. doi: DOI 10.1007/s10750-008-9354-8
298. Hrodey, P.J., & **Sutton, T.M.** (2008). Fish community responses to half-log additions in warmwater streams. *North American Journal of Fisheries Management*, 28(1), 70-80. doi: Doi 10.1577/M06-168.1
299. Huang, H.; Chen, C.; Cowles, G.W.; Winant, C.D.; Beardsley, R.C.; **Hedstrom, K.S.**; Haidvogel, D. B. (2008). FVCOM validation experiments: Comparisons with ROMS for three idealized barotropic test problems, . *Journal of Geophysical Research*, 113. doi: 10.1029/2007JC004557.
300. Hulme, S., **Wheat, C.G.**, Coggon, R.M., & McManus, J. (2008). Data report: trace element, Sr isotope, and Ge/Si composition of fluids and sediments in ridge-flank low-temperature hydrothermal environments. Vol. 301. A.T. Fisher, T. Urabe & A. Klaus (Eds.), *Proceedings of the Integrated Ocean Drilling Program* doi:doi:10.2204/iodp.proc.301.202.2008
301. Hulson, P.J.F., Miller, S.E., **Quinn, T.J.**, Marty, G.D., Moffitt, S.D., & Funk, F. (2008). Data conflicts in fishery models: incorporating hydroacoustic data into the Prince William Sound Pacific herring assessment model. *Ices Journal of Marine Science*, 65(1), 25-43. doi: DOI 10.1093/icesjms/fsm162
302. Huss, H., Bauder, A., Funk, M., & **Hock, Regine.** (2008). Determination of the seasonal mass balance of four Alpine glaciers since 1865. *Journal of Geophysical Research*, 113(F01015). doi: 10.1029/2007JF000803
303. Huss, M., Bauder, A., Funk, M., & **Hock, R.** (2008). Determination of the seasonal mass balance of four Alpine glaciers since 1865. *Journal of*

## UAF Faculty Peer-Reviewed Publications 2008

*Geophysical Research-Earth Surface*,  
113(F1).doi:F0101510.1029/2007jf000803

304. Ilgen, A. G., Mueller, S., Newville, M., & **Trainor, T. P.** (2008). GEOC 129-Arsenic and antimony speciation in water and bottom sediments associated with geothermal waste fluids: Dachny geothermal field, Kamchatka, Russia. *Abstracts of Papers of the American Chemical Society*, 235, 129-GEOC.
305. Ilgen, A. G., Newville, M., & **Trainor, T. P.** (2008). GEOC 159-Arsenic and antimony interactions with kaolinite, montmorillonite and nontronite clays. *Abstracts of Papers of the American Chemical Society*, 235, 159-GEOC.
306. Ingham, M., Pringle, D., & **Eicken, H.** (2008). Cross-borehole resistivity tomography of sea ice. *Cold Regions Science and Technology*, 52(3), 263-277. doi: 10.1016/j.coldregions.2007.05.002
307. Ingham, M., Pringle, D.J., & **Eicken, H.** (2008). Cross-borehole resistivity tomography of sea ice. . *Cold Reg. Sci. Technol*, 52, 263-277.
308. Ingham, M.; **Pringle, D.J.; Eicken, H.** (2008). Cross-borehole resistivity tomography of sea ice. *Cold Regions Science and Technology*, 52, 15. doi: 10.1016/j.coldregions.2007.05.002
309. **Irish, J.** (2008). Dental morphometric analyses of the Neolithic human skeletal sample from R12: characterizations and contrasts. *A Neolithic Cemetery in the Northern Dongola Reach: Excavations at Site R12*. S. S. a. D. Usai. London, Sudan Archeological Research Society: 105-112.
310. **Irish, J.** (2008). A dental assessment of biological affinity between inhabitants of the Gebel Ramlah and R12 Neolithic sites. *Man--Millenia--Environment: Studies in Honour of Professor Romuald Schukd.* Z. S. a. A. Tomaszewski. Warsaw, Polish Academy of Sciences: 45-52.
311. **Irish, J.** (2008). *Technique and Application in Dental Anthropology*. Cambridge, Cambridge University Press.
312. **Irish, J. w.** B. B., R. Schild, E. Kolstrup, H Krolik, D Manka and T.Boron. (2008). "A late Magdalenian perinatal human skeleton from Wilczyce Poland." *Journal of Human Evolution* 55: 436-740.
313. Isomursu, M., Rätti, O., Helle, P., & **Hollmén, T.** (2008). Parasitized grouse are more vulnerable to predation as revealed by a dog-assisted hunting study. *Annales Zoologici Fennici*, 45, 496-502.
314. Jakobsson, M., Polyak, L., Edwards, M., Kleman, J., & **Coakley, B.** (2008). Glacial geomorphology of the Central Arctic Ocean: the Chukchi Borderland and the Lomonosov Ridge. *Earth Surface Processes and Landforms*, 33(4), 526-545. doi: 10.1002/esp.1667
315. Jakobsson, M., Polyak, L., Edwards, M., Kleman, J., & **Coakley, B.J.** (2008). Glacial geomorphology of the Central Arctic Ocean: the Chukchi Boarderland

## UAF Faculty Peer-Reviewed Publications 2008

- and the Lomonosov Ridge. *Earth Surf. Process Landforms*, 33, 526-545. doi: 10.1002/esp.1667
316. **Jeffries, M.O.** (2008). The Ellesmere Ice Shelves, Nunavut, Canada *Arctic Ice Shelves and Ice Islands* (Vol. Springer).
317. **Jeffries, M.O., Morris, K.,** & Duguay, C.R. (2008). Lake Ice and River Ice. State of the Earth's Cryosphere at the Beginning of the 21st Century: Glaciers, Global Snow Cover, Floating Ice, and Permafrost and Periglacial Environments. *U.S. Geological Survey Professional Paper, 1386-A*(Satellite Image Atlas of Glaciers of the World, Introduction and Synthesis).
318. **Jerry McBeath, M. B., Jonathan Rosenberg** and **Mary Ehrlander** (2008). Campaigns, Elections and the Influence of Oil. *The Political Economy of Oil in Alaska: Multinationals vs. the State*, Lynne Rienner Publishers.
319. **Jerry McBeath, M. R.,** and **Mary Ehrlander** (2008). *Education Reform in the American States*, Information Age Publishing.
320. **Jewett, S.C.,** Brewer, R., Chenelot, H., Clark, R. , Dasher, D., Harper, S., & Hoberg, M. . (2008). Scuba techniques for the Alaska Monitoring and Assessment Program (AKMAP) of the Aleutian Islands, Alaska. In P. and N.W. Pollock Bruggeman (Ed.), *Diving for Science 2008. Proceedings of the 27th American Academy of Underwater Sciences Symposium*, (pp. 71-89): AAUS.
321. Jiang, G., Xu, J., Xiong, J., Ma, R., Murayama, Y., **Thorsen, D., . . .** Franke, S.J. (2008). A case study of the mesospheric 6.5-day wave observed by radar systems. *Journal of Geophysical Research*, 113(D16111). doi: 10.1029/2008JD009907
322. **Jin, M.;** Wang, J.; Mizobata, K.; Hu, H.; Shimada, K. (2008). Observations and modeling of ice-ocean conditions in the coastal Chukchi and Beaufort Seas. *Acta Oceanologica Sinica*, 27(3), 9.
323. Joaquin, H.J.F., Tolasa, S., **Oliveira, A.C.M.,** Lee, C.M., & Lee, K.H. (2008). Effect of milk protein concentrate on lipid oxidation and formation of fishy volatiles in herring mince (*Clupea harengus*) during frozen storage. *Journal of Agricultural and Food Chemistry*, 56(1), 166-172. doi: Doi 10.1021/Jf072460i
324. Johnson, A. B., & **Winker, K.** (2008). Autumn stopover near the Gulf of Honduras by Nearctic-Neotropic migrants. *Wilson Journal of Ornithology*, 120(2), 277-285.
325. Johnson, C. L., Constable, C. G., Tauxe, L., Barendregt, R., Brown, L. L., Coe, R. S., **Layer, P. . . .** Stone, D. B. (2008). Recent investigations of the 0-5 Ma geomagnetic field recorded by lava flows. *Geochemistry Geophysics Geosystems*, 9. doi: 10.1029/2007gc001696
326. Johnson, D. S., **Thomas, D. L.,** Hoef, J. M. V., & Christ, A. (2008). A general framework for the analysis of animal resource selection from telemetry data. *Biometrics*, 64(3), 968-976. doi: 10.1111/j.1541-0420.2007.00943.x

## UAF Faculty Peer-Reviewed Publications 2008

327. **Johnson, Jerome B.**, Cargile, James D., & Smith, Donald M. (2008). Soil properties from low-velocity probe penetration. [Article]. *Shock & Vibration*, 15(2), 127-135.
328. Jokiahho, O., Lanchester, B.S., Ivchenko, N., Daniell, G.J., Miller, C.H., & **Lummerzheim, D.** (2008). Rotational temperature of N<sup>+2</sup> (0,2) ions from spectrographic measurements used to infer the energy of precipitation in different auroral forms and compared with radar measurements. *Annals of Geophysics*, 26, 853.
329. Jones, D.A., **Layer, Paul**, & Newberry, R.J. (2008). A 3100-Year History of Argon Isotopic and Compositional Variation at El Chichon Volcano. *Journal of Volcanological and Geothermal Research*, 175, 427-443.
330. Jones, D. A., **Layer, P. W.**, & **Newberry, R. J.** (2008). A 3100-year history of argon isotopic and compositional variation at El Chichon volcano. *Journal of Volcanology and Geothermal Research*, 175(4), 427-443. doi: 10.1016/j.jvolgeores.2008.02.018
331. Joughin, I., Howat, I., Alley, R. B., Ekstrom, G., Fahnestock, M., Moon, T., **Truffer, M.** . . Tsai, V. C. (2008). Ice-front variation and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland. *Journal of Geophysical Research-Earth Surface*, 113(F1). doi: F0100410.1029/2007jf000837
332. Joughin, I., Howat, I. M., Fahnestock, M., Smith, B., Krabill, W., Alley, R. B., . . . **Truffer, M.** (2008). Continued evolution of Jakobshavn Isbrae following its rapid speedup. *Journal of Geophysical Research-Earth Surface*, 113(F4). doi: F0400610.1029/2008jf001023
333. Joughin, I.R., Howat, I., Alley, R.B., Ekstrom, G., Fahnestock, M., Moon, T., **Truffer, M.** . . Tsai, V. (2008). Ice front variation and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland. *Journal of Geophysical Research*, 113(F01004). doi: 10.1029/2007JF000837
334. Joughin, I.R., Howat, I., Fahnestock, M., Smith, B., Krabill, W., Alley, R.B., . . . **Truffer, M.** (2008). Continued evolution of Jakobshavn Isbrae following its rapid speedup. *Journal of Geophysical Research*, 113(F04006). doi: 10.1029/2008JF001023
335. Jurcevic S., **A.** Vlastelica M., et al. (2008). "Gender differences in war-related disappearance in Croatia." *Psychiatria Danubina* 20(1): 53-62.
336. Jurcevic, Slavica, Vlastelica, Mirela, **Allen, James**, & Dahl, Solveig. (2008). Gender differences in war-related disappearance in Croatia (1991-1995). *Psychiatria Danubina*, 20(1), 53-62.
337. Kade, A., & **Walker, D. A.** (2008). Experimental alteration of vegetation on nonsorted circles: Effects on cryogenic activity and implications for climate change in the arctic. *Arctic Antarctic and Alpine Research*, 40(1), 96-103. doi: 10.1657/1523-0430(06-029)[kade]2.0.co;2
338. Kadko, D., Pickart, R.S., & **Mathis, J.** (2008). Age characteristics of a shelf-break eddy in the western Arctic and implications for shelf-basin

## UAF Faculty Peer-Reviewed Publications 2008

- exchange. *Journal of Geophysical Research-Oceans*, 113(C2), -. doi: Artn C02018 Doi 10.1029/2007jc004429
339. Kanamori, S., **Benson, C.S.**, **Truffer, M.**, Matoba, S., **Solie, D.**, & Shiraiwa, T. (2008). Seasonality of snow accumulation at Mount Wrangell, Alaska, USA. *J. Glaciol*, 54(185), 273-278.
340. Kanamori, S., Benson, C. S., **Truffer, M.**, Matoba, S., Solie, D. J., & Shiraiwa, T. (2008). Seasonality of snow accumulation at Mount Wrangell, Alaska, USA. *Journal of Glaciology*, 54(185), 273-278.
341. **Kane, DL**, Hinzman, LD, Gieck, RE, McNamara, JP, Youcha, E, & Oatley, JA. (2008). Contrasting Extreme Runoff Events in Areas of Continuous Permafrost, Arctic Alaska. *Hydrology Research*, 39(4), 287-298.
342. Kane, E.S., Betts, E.F., Burgin, A.J., Clilverd, H.M., Crenshaw, C.L., Fellman, J.B., . . . **Jones, J.B.** (2008). Precipitation control over inorganic nitrogen import–export budgets across watersheds: a synthesis of long-term ecological research. *Ecohydrology*, 1, 105-117.
343. **Kaplan, L.** (2008). Some effects of migration in Inupiaq language. The Urban Arctic, Living Communities: New Perspectives on Inuit Urban Life. K. T. Frank Sejersen, and Soren Thuesen. Copenhagen, University of Copenhagen Press.
344. **Karlsson, M.** (2008). Early day length sensitivity in sunflower. [Abstract]. *HortScience*, 43, 1261-1262.
345. Kaufman, M. R., **Gradinger, R. R.**, **Bluhm, B. A.**, & **O'Brien, D. M.** (2008). Using stable isotopes to assess carbon and nitrogen turnover in the Arctic sympagic amphipod *Onisimus litoralis*. *Oecologia*, 158(1), 11-22. doi: 10.1007/s00442-008-1122-y
346. Kaviani, D., Bui, T.D., Jensen, J.L., & **Hanks, C.L.** (2008). The application of artificial neural networks with small data sets: an example for analysis of fracture spacing in the Lisburne Formation, northeastern Alaska. *SPE Reservoir Evaluation and Engineering*, 11(3), 598-561.
347. **KC, H.** (2008). "Review: Ancient health: Skeletal indicators of agricultural and economic intensification." American Journal of Physical Anthropology **138**: 518-519
348. Kearney, C.S., **Dean, Ken**, Realmuto, V.J., Watson, I.M., **Dehn, J.**, & Prata, F. (2008). Observations of SO<sub>2</sub> production and transport from Bezymianny volcano, Kamchatka using the MODerate resolution Infrared Spectroradiometer (MODIS). *International Journal of Remote Sensing*, 29(22), 6647-6665.
349. Kenyon, S., Forsberg, R., & **Coakley, B.J.** (2008). New Gravity Field for the Arctic. *EOS Trans*, 89(32), 289. doi: 10.1029/2008EO320002
350. Kilgour, M.J., & **Shirley, T.C.** (2008). Bathymetric and spatial distribution of decapod crustaceans on deep-water shipwrecks in the Gulf of Mexico.

## UAF Faculty Peer-Reviewed Publications 2008

- Bulletin of Marine Science*, 82(3), 333-344.
351. Kilgour, M.J., & **Shirley, T.C.** (2008). Distribution of red deepsea crab (*Chaceon quinquegens*) by size and sex in the Gulf of Mexico. *Fishery Bulletin*, 106(3), 317-320.
352. Kilgour, M.J., & **Shirley, T.C.** (2008). *Eumunida picta* S. I. Smith, 1883, and *Lophelia pertusa* (Linnaeus, 1758): A relationship or just good friends? *Crustaceana*, 81(5), 587-593.
353. Kim, Kou, **Zhou, Wei**, & **Huang, Scott L.** (2008). Frost heave predictions of buried chilled gas pipelines with the effect of permafrost. *Cold Regions Science and Technology*, 53(3), 382-396. doi: DOI: 10.1016/j.coldregions.2008.01.002
354. Kimbirauskas, R. K., Merritt, R. W., **Wipfli, M. S.**, & Hennon, P. (2008). Headwater macroinvertebrate community response to riparian red alder (*Alnus rubra* Bong.) in southeast Alaska. *Pan-Pacific Entomologist*, 84(3), 220-237.
355. Kirschner, D., Jaramillo, M., **Green, T.**, Hapiot, F., Leclercq, L., Bricout, H., & Monflier, E. (2008). Fine tuning of sulfoalkylated cyclodextrin structures to improve their mass-transfer properties in an aqueous biphasic hydroformylation reaction. *Journal of Molecular Catalysis a-Chemical*, 286(1-2), 11-20. doi: 10.1016/j.molcata.2008.01.038
356. Knapp, A.K., Briggs, J.M., Collins, S.C., Archers, S.R., **Bret-Harte, M.S.**, Ewers, B.E., . . . Cleary, M.B. (2008). Shrub Encroachment in North American Grasslands: Shifts in Growth Form Dominance Rapidly Alters Control of Ecosystem Carbon Inputs. *Global Change Biology*, 14, 615-623.
357. Knapp, A. K., Briggs, J. M., Collins, S. L., Archer, S. R., **Bret-Harte, M. S.**, Ewers, B. E., . . . Cleary, M. B. (2008). Shrub encroachment in North American grasslands: shifts in growth form dominance rapidly alters control of ecosystem carbon inputs. *Global Change Biology*, 14(3), 615-623. doi: 10.1111/j.1365-2486.2007.01512.x
358. Koepke, J., **Christie, D.M.**, Dziony, W., Holtz, F., Lattard, D., Maclennan, J., . . . Yamazaki, S. (2008). Petrography of the dike-gabbro transition at IODP Site 1256 (equatorial Pacific): The evolution of the granoblastic dikes. *Geochemistry Geophysics Geosystems*, 9, -. doi: Artn Q07o09 Doi 10.1029/2008gc001939
359. **Koester, D.** (2008). "(in Russian) (trnslation from the French of La Geste d'Asdiwal invers e: d rive d'un mythe dans le Pacifique Nord) " (in Russian) 6: 4-18.
360. Kolb, E.J. , **Bailey J.E.**, Bishop, A., Cain, J., Goddard, M., Hurowitz, K., . . . Wernecke, J. (2008). KML-based teaching lessons developed by Google in partnership with the University of Alaska. [Fall Meeting Supplement Abstract IN41B-1146]. *EOS Trans*, 89(53).
361. Kong, F., **Oliveira, A.C.M.**, Tang, J., Rasco, B., & **Crapo, C.** . (2008). Effect

## UAF Faculty Peer-Reviewed Publications 2008

- of salt addition on the quality changes of salmon fillet during thermal processing. . *Food Chemistry*, 106 (3), 957-966.
362. Korel, F., & **Balaban, M.O.** . (2008). Chemical Composition and Health Aspects of Chestnut (*Castanea* spp.). In F. Shahidi & C. Alasalvar (Eds.), *Tree Nuts: Composition, Phytochemicals, and Health Effects* (pp. 171-184): Taylor & Francis
363. Korel, F., & **Balaban, M.O.** (2008). Electronic nose technology in food analysis. In Otlés (Ed.), *Handbook of Food Analysis Instruments*. Atlanta, GA: CRC Press.
364. **Kowalik, Z.** (2008). Energy Flux as a tool in locating tsunami secondary sources. *Science of Tsunami Hazards*, 27(3), 1-29.
365. **Kowalik, Z.**, Horrillo, J., Knight, W., & Logan, T. (2008). Kuril Islands tsunami of November 2006: 1. Impact at Crescent city by distant scattering. *Journal of Geophysical Research-Oceans*, 113(C1), C01020. doi: 10.1029/2007jc004402
366. **Kowalik, Z.**; Horrillo, J.; Logan, T. (2008). Kuril Islands tsunami of November 2006: 1. Impact at Crescent City by distant scattering. *Journal of Geophysical Research*, 113(1), 11. doi: 10.1029/2007JC004402
367. **Kramm, G.**, Dlugi, R., & Zegler, M. (2008). On the recognition of fundamental physical principles in recent atmospheric-environmental studies. *J. Calcutta Math Soc.*, 4(1 & 2), 31-55.
368. Kristoffersen, Y., Hall, J., Hunkins, K., Ardai, J., **Coakley, B.J.**, & Hopper, J. (2008). Extensive local seabed disturbance, erosion and mass wasting on Alpha Ridge, Central Arctic Ocean: possible evidence for an extra-terrestrial impact? *Norwegian Journal of Geology*, 88, 313-320.
369. Kristoffersen, Y., Hall, J. K., Hunkins, K., Ardai, J., **Coakley, B. J.**, Hopper, J. R., & Healy Seismic, Team. (2008). Extensive local seabed disturbance, erosion and mass wasting on Alpha Ridge, Central Arctic Ocean: possible evidence for an extra-terrestrial impact? *Norwegian Journal of Geology*, 88(4), 313-320.
370. **Kruse, G.H.** (2008). Climate change and Alaska's fisheries. *Alaska Seas and Coasts*, 5 2-3.
371. **Kruse, G.H.**, Drinkwater, K., Ianelli, J.N., Link, J.S., Stram, D.L., Wespestad, V., & Woodby, D. (Eds.). (2008). *Resiliency of gadid stocks to fishing and climate change* (Vol. AK-SG-08-01). Fairbanks, Alaska: Alaska Sea Grant College Program.
372. Kulkarni, Devdatta P., Namburu, Praveen K., **Ed Bargar, H.**, & **Das, Debendra K.** (2008). Convective Heat Transfer and Fluid Dynamic Characteristics of SiO<sub>2</sub> Ethylene Glycol/Water Nanofluid. [Article]. *Heat Transfer Engineering*, 29(12), 1027-1035. doi: 10.1080/01457630802243055
373. Kulkarni, Devdatta P., Vajjha, Ravikanth S., **Das, Debendra K.**, & Oliva,

## UAF Faculty Peer-Reviewed Publications 2008

- Daniel. (2008). Application of aluminum oxide nanofluids in diesel electric generator as jacket water coolant. *Applied Thermal Engineering*, 28(14-15), 1774-1781. doi: DOI: 10.1016/j.applthermaleng.2007.11.017
374. Kumar, GS, Sekhar, M, & **Misra, D.** (2008). Time Dependent Dispersivity of Linearly Sorbing Solutes in a single Fracture with Matrix Diffusion. *ASCE Journal of Hydrolic Engineering*, 13(4), 250-257. doi: [http://dx.doi.org/10.1061/\(ASCE\)1084-0699\(2008\)13:4\(250\)](http://dx.doi.org/10.1061/(ASCE)1084-0699(2008)13:4(250)
375. Kurkowski, T. A., **Mann, Dan H.**, **Rupp, T.Scott** , & **Verbyla, David L.** . (2008.). Relative importance of different secondary successional pathways in an Alaskan boreal forest. *Canadian Journal of Forest Research.*, 38, 1911-1923.
376. Kuzu, A, Gokasan, M, & **Bogossyan, S.** (2008). Novel Approach for Detection and Tracking of Explosive Carrying Mobile Humans with Odor-Sensor Based Multisensor Networks. *WSEAS Transactions on Systems and Control*, 3(1), 63-70.
377. Lake, Bryce C., Schmutz, Joel A., **Lindberg, Mark S.**, Ely, Craig R., Eldridge, William D., & Boreraman, Fred J. (2008). Body mass of pre fledging Emperor Geese *Chen canagica* : large-scale effects of interspecific densities and food availability. *Ibis*, 150, 527-540.
378. Lang, A. S., Kelly, A., & **Runstadler, J. A.** (2008). Prevalence and diversity of avian influenza viruses in environmental reservoirs. *Journal of General Virology*, 89, 509-519. doi: 10.1099/vir.0.83369-0
379. **Larsen, Christopher**, Coombs, M., Tilman, Nye, C., & **Izbekov, P.** (2008). Petrology and Geochemistry of the 2006 Eruption of Augustine Volcano, Alaska. *U.S. Geological Survey Professional Paper XXXX-X*.
380. **Larsen, J. F.** (2008). Heterogeneous bubble nucleation and disequilibrium H<sub>2</sub>O exsolution in Vesuvius K-phonolite melts. *Journal of Volcanology and Geothermal Research*, 175(3), 278-288. doi: 10.1016/j.jvolgeores.2008.03.015
381. **Larsen, J.F.**, Neal, C.A., **Webley, P.W.**, **Freymueller, J.T.**, Haney, M., **McNutt, S.**, . . . Wessels, R. (2008). Eruption of Alaska Volcano Breaks Historic Pattern, *Eos, Trans. Amer. Geophys. Union*, 90, 173-174.
382. Lawrence, D. M., Slater, A. G., **Romanovsky, V. E.**, & Nicolsky, D. J. (2008). Sensitivity of a model projection of near-surface permafrost degradation to soil column depth and representation of soil organic matter. *Journal of Geophysical Research-Earth Surface*, 113(F2). doi: F0201110.1029/2007jf000883
383. Lazerson, S. A., & **Wiechen, H. M.** (2008). Three-dimensional simulations of magnetic reconnection in a dusty plasma. *Journal of Plasma Physics*, 74, 493-513. doi: 10.1017/s0022377807006861
384. LeBlanc, L., **Larsen, Christopher**, **West, M.**, **O'Neel, S.**, & **Truffer, M.** (2008). Time-series Analysis of Icequakes and Ice Motion, Bering Glacier,



## UAF Faculty Peer-Reviewed Publications 2008

- AK. *EOS Trans*, AGU(89), 53.
385. Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., Dahlman, L., Domenico, B., & Taber, M.R. (2008). Archiving Data to Facilitate Its Use in Education. *EOS Trans*, 89(53).
386. Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., & members, DAWG. (2008). Recommendations for Making Geoscience Data Accessible and Usable in Education. *EOS Trans*, 89(32), 291. doi: 10.1029/2008EO2003
387. Lee, D.E., Gregory, M.R., Luter, C., Zezina, O.N., Robinson, J.H., & **Christie, D.M.** (2008). Melvicalathis, a new brachiopod genus (Terebratulida : Chlidonophoridae) from deep sea volcanic substrates, and the biogeographic significance of the mid-ocean ridge system. *Zootaxa*(1866), 136-150.
388. Lee, S.H., **Whitledge, T.E.**, & Kang, S.H. (2008). Carbon uptake rates of sea ice algae and phytoplankton under different light intensities in a landfast sea ice zone, Barrow, Alaska. *Arctic*, 61(3), 281-291.
389. Lee, S.H., **Whitledge, T.E.**, & Kang, S.H. (2008). Spring time production of bottom ice algae in the landfast sea ice zone at Barrow, Alaska. *Journal of Experimental Marine Biology and Ecology*, 367, 204-212.
390. Lehtikoinen, A., Ost, M., **Hollmen, T.**, & Kilpi, M. (2008). Does Sex-Specific Duckling Mortality Contribute to Male Bias in Adult Common Eiders? *Condor*, 110(3), 574-578. doi: DOI 10.1525/cond.2008.8574
391. **Leonard, B.** (2008). Mediating Athabascan oral traditions in post-secondary classrooms. *International Journal of Multicultural Education*, 10(2).
392. LePain, D.L., Wartes, M.A., **McCarthy, P.J.**, Silliphant, L.J., Peterson, S., Shellenbaum, D.P., . . . Stanley, R. (2008). Facies associations, sand body geometry and depositional systems in Late Oligocene-Pliocene strata, southern Kenai Peninsula, Cook Inlet, Alaska: Report on progress during the 2006-2007 field seasons. *Alaska Division of Geological & Geophysical Surveys*.
393. Li, Q.X., Wang, D., Shelver, W., **Atkinson, S.**, & Mellish, J.A. (2008). Tissue distribution of PCBs and organochlorine pesticides in Alaskan northern fur seals: comparison of various congener classification schemes. *Organohalogen Compounds*, 80, 1251-1254.
394. Li, Z., **Bhatt, U. S.**, & **Molders, N.** (2008). Impact of doubled CO<sub>2</sub> on the interaction between the global and regional water cycles in four study regions. *Climate Dynamics*, 30(2-3), 255-275. doi: 10.1007/s00382-007-0283-4
395. Li, Z., **Bhatt, U.S.**, & **Molders, N.** (2008). Impact of doubled CO<sub>2</sub> on the interaction between the regional and global water cycle in four study regions. *Clim Dyn*, 30, 255-275.
396. Li, Z., & **Molders, N.** (2008). Interaction of impacts of doubling CO<sub>2</sub> and changing regional land-cover on evaporation, precipitation, and runoff at

## UAF Faculty Peer-Reviewed Publications 2008

- global and regional scales. *International Journal of Climatology*, 28(12), 1653-1679. doi: 10.1002/joc.1666
397. Li, Z., & **Molders, N.** (2008). Interaction of impacts of doubling CO<sub>2</sub> and changing regional landcover on evaporation, precipitation, and runoff at global and regional scales. *Int. J. Climatol*, 28, 1653-1679.
398. Li, Z.; **Bhatt, U.S.; Molders, N.** (2008). Impact of doubled CO<sub>2</sub> on the interaction between the regional and global water cycle in four study regions. *Climate Dynamics*, 30(2-3), 21. doi: 10.1007/s00382-007-0283-4
399. Li, Z.; **Molders, N.** (2008). Interaction of impacts of doubling CO<sub>2</sub> and changing regional land-cover on evaporation, precipitation, and runoff at global and regional scales. *International Journal of Climatology*, 28(12), 27. doi: 10.1002/joc.1666
400. **Liang, J.J.**, Calkin, D.E., Gebert, K.M., Venn, T.J., & Silverstein, R.P. . (2008). Factors influencing large wildland fire suppression expenditures. . *International Journal of Wildland Fire*, 17: . , 650-659.
401. **Lin, HK, Walsh, DE**, Oleson, JL, & Chen, X. (2008). Reduction of Cyanate to Cyanide in Cyanidation Tailings Under Reducing Environments. *Minerals and Metallurgical Processing*, 25(1), 41-45.
402. **Lin, HK, Walsh, DE**, Sonderland, SH, Bissue, C, & Debrah, A. (2008). Flotability of Metallic Iron Fines from Comminution Circuits and Their Effect on Flotation of a Sulfide Ore. *Minerals and Metallurgical Processing*, 25(4).
403. Lin, R., Lindstrom, S.C., & **Stekoll, M.S.** (2008). Photosynthesis and respiration of the conchocelis of Alaskan Porphyra (Bangiales, Rhodophyta) species in response to environmental variables. *Journal of Phycology*, 44, 573-583.
404. Lindstrom, S.C., Conitz, J.M., Hall, S. , & **Stekoll, M.S.** (2008). Induction of conchospore release: ecotypic variation in northeast Pacific species of Porphyra. *Journal of Applied Phycology*, 20, 331-340.
405. **Lipka, J.**, & Andrew-Ihrke, D. (2008). Ethnomathematics applied to classrooms in Alaska: Mathematics in a Cultural Context. *NCSM- Network, Communicate, Support, Motivate Leadership in Mathematics Education, Winter*, 35-37.
406. Lisuzzo, Nicholas, **Kielland, Knut**, & **Jones, Jeremy B.** (2008). Hydrologic controls on nitrogen availability in a high-latitude, semi-arid floodplain. *Ecoscience*, 15(3), 366-376.
407. Lisuzzo, N. J., **Kielland, K.**, & **Jones, J. B.** (2008). Hydrologic controls on nitrogen availability in a high-latitude, semi-arid floodplain. *Ecoscience*, 15(3), 366-376. doi: 10.2980/15-3-2998
408. **Little, Joeseeph**, & Berrens, R. (2008). The Southwestern Market for Big-Game Hunting Permits and Services: A Hedonic Pricing Analysis. [Refereed Journal Article]. *Human Dimensions of Wildlife*, 13(3), 143-157.

## UAF Faculty Peer-Reviewed Publications 2008

409. Liu, H., & **Hopcroft, R.R.** (2008). Growth and development of *Pseudocalanus* spp. in the northern Gulf of Alaska. *Journal of Plankton Research*, 30(8), 923-935. doi: DOI 10.1093/plankt/fbn046
410. Loher, T., & **Seitz, A.C.** (2008). Characterization of active spawning season and depth for eastern Pacific halibut (*Hippoglossus stenolepis*), and evidence of probably skipped-spawning. *Journal of Northwest Atlantic Fishery Science*, 41, 23-36.
411. Lombardo, V. T., Hopkins, S. E., Selosse, M. A., Cozzolino, S., & **Taylor, D. L.** (2008). Isolation and characterization of new polymorphic microsatellite loci in the mixotrophic orchid *Limodorum abortivum* L. Swartz (Orchidaceae). *Molecular Ecology Resources*, 8(5), 1117-1120. doi: 10.1111/j.1755-0998.2008.02176.x
412. Loring, P. A., **Chapin, F. S.**, & Gerlach, S. C. (2008). The services-oriented architecture: Ecosystem services as a framework for diagnosing change in social ecological systems. *Ecosystems*, 11(3), 478-489. doi: 10.1007/s10021-008-9136-1
413. Loring, Philip A., **Chapin III, F. Stuart**, & Gerlach, S. Craig. (2008). The Services-Oriented Architecture: Ecosystem Services as a Framework for Diagnosing Change in Social Ecological Systems. *Arctic ecosystems in a changing climate: an ecophysiological perspective*, 11, 478-489.
414. Lowe, M. , & **Carothers, C.** (Eds.). (2008). *Enclosing the Fisheries: People, Places, and Power. Symposium 68*. Bethesda, MD: American Fisheries Society.
415. Luthcke, S., **Arendt, Anthony**, Rowlands, D., **Larsen, Christopher**, & McCarthy, J. (2008). Recent Glacier Mass Changes in the Gulf of Alaska Region from GRACE MASCON solutions. *Journal of Glaciology*, 54(188), 797-777.
416. **Ma, Yilong**, & Wu, Shufen. (2008). Simultaneous measurement of brain tissue oxygen partial pressure, temperature, and global oxygen consumption during hibernation, arousal, and euthermia in non-sedated and non-anesthetized Arctic ground squirrels. *Journal of Neuroscience Methods*, 174, 237-244.
417. Mack, Michelle C., Treseder, Kathleen K., Manies, Kristen K., Harden, Jennifer W., Schuur, Edward A.G., Vogel, Jason G., . . . **Chapin III, F. Stuart**. (2008). Recovery of Aboveground Plant Biomass and Productivity After Fire in Mesic and Dry Black Spruce Forests of Interior Alaska. *Ecosystems*, 11, 209-225.
418. Mack, M. C., Treseder, K. K., Manies, K. L., Harden, J. W., Schuur, E. A. G., Vogel, J. G., . . . **Chapin, F. S.** (2008). Recovery of aboveground plant biomass and productivity after fire in mesic and dry black spruce forests of interior alaska. *Ecosystems*, 11(2), 209-225. doi: 10.1007/s10021-007-9117-9

## UAF Faculty Peer-Reviewed Publications 2008

419. Majhi, Ipshita, & **Daqing, Yang**. (2008). Streamflow Characteristics and Changes in Kolyma Basin in Siberia. [Article]. *Journal of Hydrometeorology*, 9(2), 267-279. doi: 10.1175/2007jhm845.1
420. Malav, Dinesh, **Ganguli, Rajive**, Dutta, Sridhar, & **Bandopadhyay, Sukumar**. (2008). Non-impact of particle size distribution on power generation at a pulverized coal power plant burning low rank Alaska coal. *Fuel Processing Technology*, 89(5), 499-502. doi: DOI: 10.1016/j.fuproc.2007.10.001
421. **Mamoon, T.** (2008). "Conversions/Subversions: Sufi subtexts of Bangladeshi identity." *Comparative Civilizations Review* 59(fall): 127-148.
422. Maniscalco, J.M., Calkins, D.G., Parker, P., & **Atkinson, S.** (2008). Causes and extent of natural mortality among Steller sea lion (*Eumetopias jubatus*) pups. *Aquatic Mammalogy*, 34(3), 277-287.
423. Mantilla, D., Kristinsson, H.G., **Balaban, M.O.**, Otwell, W.S., Chapman, F.A., & Raghavan, S. (2008). Carbon monoxide treatments to impart and retain muscle color in tilapia fillets. *Journal of Food Science*, 73(5), C390-C399. doi: DOI 10.1111/j.1750-3841.2008.00757.x
424. Mantilla, D., Kristinsson, H.G., **Balaban, M.O.**, Otwell, W.S., Chapman, F.A., & Raghavan, S. (2008). Color stability of frozen whole tilapia exposed to pre-mortem treatment with carbon monoxide. *Journal of the Science of Food and Agriculture*, 88(8), 1394-1399. doi: Doi 10.1002/Jsfa.3230
425. **Marchenko, S.** (2008). Climate Change and its Impact on the Frozen Tombs of the Altai Mountains *UNESCO Project Preservation of Frozen Tombs of the Altai Mountains*, (pp. 61-63).
426. **Margraf, F.J.** . (2008). A new home for habitat. *Fisheries*, 33, 532.
427. **Marlow, P.** (2008). State achievement measures, educational programming, and the Yup'ik language: report to the Lower Kuskokwim School District.: 39
428. Marsik, T, & **Johnson, R.** (2008). *Effect of Outdoor Air Quality on Indoor Air*, VDM Verlag. Berlin.
429. Marsik, T, & **Johnson, R.** (2008). HVAC Air-Quality Models and it's use to Test a PM2.5 Control Strategy. *Building and Environment*, 43, 1850-1857.
430. Marsik, T, & **Johnson, R.** (2008). Use of Simulink to Address Key Factors for Radon Mitigation in a Fairbanks Home. *Health Physics*, 94, 434-439.
431. Marsik, T, & **Johnson, R.** (2008). Use of Simulink to Evaluate the Air Quality and Energy Performance of HRV-Equipped Residences in Fairbanks, Alaska. *Energy and Buildings*, 44, 1605-1613.
432. Mason, S. E., Tanwar, K., **Trainor, T. P.**, & Chaka, A. M. (2008). COLL 79-Pb(II) sorption on hydrated oxide surfaces. *Abstracts of Papers of the American Chemical Society*, 235, 79-COLL.
433. Mastin, L.B., Guffanti, M., Servranckx, R., **Webley, P.W.**, Barsotti, S., **Dean,**

## UAF Faculty Peer-Reviewed Publications 2008

- Ken**, . . . Waythomas, C.F. (2008). A multidisciplinary effort to assign realistic source parameters to model of volcanic ash-cloud transport and dispersion during eruptions. *Journal of Volcanology and Geothermal Research, Issue on Volcanic Ash Clouds*. doi: 10.1016/j.jvolgeores.2009.01.008
434. Matheke, G.E.M., Hanscom, J., **Holloway, P.S.**, & Gardiner, E. . (2008). Vegetable trials 2007. *Agricultural and Forestry Experiment Station AFES Variety Trial(VT 2008-02)*.
435. Matsuura, H., **Nakazawa, A.**, & Lung, D.E. (2008). Commentary: Solid Waste as it Impacts Community Sustainability in Alaska. *Journal of Rural and Community Development*, 3(3).
436. **Matusevich, Y.** (2008). "Chaotic foundations: Nietzsche & Mikhail Bakhtin." *Journal of Language, Literature and Cultural Studies* **Spring 2008**: 116-130.
437. **Maurits, S.A.**; Gherm, V.E.; Zernov, N.N.; Strangeways, H.J. (2008). Modelling of scintillation effects on high-latitude transionospheric path using ionospheric model (UAF EPPIM) for background electron density specifications. *Radio Science*, 43, 17. doi: 10.1029/2006RS003539
438. **Maxwell, D., Truffer, M., Avdonin, S., & Stuefer, M.** (2008). An iterative scheme for determining glacier velocities and stresses. *Journal of Glaciology*, 54(188), 888-898.
439. Mazen, A., **Herman, Susan**, & Ornstein, S. (2008). Professor Delight: Cultivating Organizational Citizenship Behavior. [Refereed Journal Article]. *Journal of Management Education*, 32(5), 563-579.
440. **McBeath, G. a. L., Amy** (2008). Begich v. Stevens. *The Roads to Congress 2008*, Rowman & Littlefield.
441. **McBeath, G. a. R.**, Maria (2008). "Testing, testing, testing: rural and urban reponses to Alaska's high stakes testing regime." *Northern Review* **28**(Winter 2008): 207-229.
442. **McBeath, G. a. W.** (2008). "China's environmental diplomacy." *American Journal of Chinese Studies* **April 2008**: 1-16.
443. McCauley, D. E., & **Olson, M. S.** (2008). Do recent findings in plant mitochondrial molecular and population genetics have implications for the study of gynodioecy and cytonuclear conflict ? *Evolution*, 62(5), 1013-1025. doi: 10.1111/j.1558-5646.2008.00363.x
444. **McClellan, J.** (2008). "Evidence-Based Practice in Criminal Investigation." *Journal of Applied Security Research* **3**(1): 37-56.
445. **McClellan, J.** (2008). Sexual (Lust) Homicide: Definitional Constructs, Dynamics, and Investigative Considerations. *Serial Murder and the Psychology of Violent Crimes* R. Kocsis, Springer/Humana Press.
446. McGuire, A. D., Walsh, J., Kimball, J., Klein, J., Euskirchen, S., Drobot, S., **Rupp, T.S.**, . . . Calef, M. (2008). The Western Arctic Linkage Experiment (WALE): Overview and synthesis. *Earth Interactions*, 12(7), 13. doi:

## UAF Faculty Peer-Reviewed Publications 2008

- 10.11175/2008EI239.1
447. **McGuire, A. D.**, Walsh, J. E., Kimball, J. S., Clein, J. S., Euskirchen, S. E., Drobot, S., . . . Calef, M. (2008). The western Arctic Linkage Experiment (WALE): Overview and synthesis. *Earth Interactions*, 12. doi: 710.1175/2008ei239.1
448. McHarg, M.G., **Stenbaek-Nielsen, H.C.**, & **Kammae, T.** (2008). Observations of the STARDUST sample return capsule entry using a high frame rate slit-less spectrograph. *Am. Inst. Aeronautics and Astronautics*.
449. McKenzie, J., & **Wynne, K.M.** (2008). Spatial and temporal variation in the diet of Steller sea lions in the Kodiak Archipelago, 1999 to 2005. *Marine Ecology-Progress Series*, 360, 265-283. doi: Doi 10.3354/Meps07383
450. McNamara, JP, Oatley, JA, Hinzman, LD, & **Kane, DL.** (2008). Case Study of a Large Summer Flood on the North Slope of Alaska: Bedload Transport. *Hydrology Research*, 39(4), 299-308.
451. McNamara, J. P., **Kane, D. L.**, Hobbie, J. E., & Kling, G. W. (2008). Hydrologic and biogeochemical controls on the spatial and temporal patterns of nitrogen and phosphorus in the Kuparuk River, arctic Alaska. *Hydrological Processes*, 22(17), 3294-3309. doi: 10.1002/hyp.6920
452. **McNutt, S.**, & Nishimura, T. (2008). Volcanic Tremor During Eruptions: Temporal Characteristics, Scaling and Estimates of Vent Radius. *J. Volcanol. Geotherm. Res.*, 178, 10-18.
453. **McNutt, S.**, **Tytgat, G.**, **Estes, S.A.**, & **Stihler, S.** (2008). A Parametric Study of the January 2006 Explosive Eruptions of Augustine Volcano, Alaska. . *USGS Prof. Paper*.
454. Meek CL, Lovecraft, A. L., Robards, M. D. , & **Kofinas, G. P.** (2008). Building resilience through interlocal relations: Case studies of polar bear and walrus management in the Bering Strait. *Marine Policy*, 32(6), 1080-1089. doi: 10.1016/j.marpol.2008.03.003
455. Mellon, C. D., **Wipfli, M. S.**, & Li, J. L. (2008). Effects of forest fire on headwater stream macroinvertebrate communities in eastern Washington, USA. *Freshwater Biology*, 53(11), 2331-2343. doi: 10.1111/j.1365-2427.2008.02039.x
456. Mernild, SH, **Kane, DL.**, Hansen, BU, Jakobsen, BH, Hosholt, B, & Knudsen, NT. (2008). Climate, Glacier Mass Balance and Runoff (1993-2005) for the Mittivakkat Glacier Catchment, Ammassalik, SE Greenland, and in a Long Term Perspective (1898-1993). *Hydrology Research*, 39(4), 239-256.
457. Mesquita, M. D. S., Kvamsto, N. G., Sorteberg, A., & **Atkinson, D. E.** (2008). Climatological properties of summertime extra-tropical storm tracks in the Northern Hemisphere. *Tellus Series a-Dynamic Meteorology and Oceanography*, 60(3), 557-569. doi: 10.1111/j.1600-0870.2008.00305.x
458. Mesquita, M.D.S.; Kvamsto, N.G.; Sorteberg, A.; **Atkinson, D.E.** (2008).

## UAF Faculty Peer-Reviewed Publications 2008

- Climatological properties of summertime extra-tropical storm tracks in the Northern Hemisphere. *Tellus A*, 60(3), 14. doi: 10.1111/j.1600-0870.2008.00305.x
459. **Meyer, Franz**, & **Nicoll, J.** (2008). Prediction, Detection and Correction of Faraday Rotation in Full-Polarimetric L-Band SAR Data. *IEEE Transactions on Geoscience and Remote Sensing*, 46(10; Part 2), 3076-3086.
460. Michaelson, G. J., **Ping, C. L.**, Epstein, H., Kimble, J. M., & **Walker, D. A.** (2008). Soils and frost boil ecosystems across the North American Arctic Transect. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s1110.1029/2007jg000672
461. Michell, R.G., Lynch, K.A., Heinselman, C., & **Stenbaek-Nielsen, H.C.** (2008). PFISR nightside observations of naturally enhanced ion acoustic lines, and their relation to boundary auroral features. *Annales Geophysicae*, 26, 3623-3639.
462. Michell, R. G., Lynch, K. A., Heinselman, C. J., & **Stenbaek-Nielsen, H. C.** (2008). PFISR nightside observations of naturally enhanced ion acoustic lines, and their relation to boundary auroral features. *Annales Geophysicae*, 26(11), 3623-3639.
463. Michell, R. G., Lynch, K. A., & **Stenbaek-Nielsen, H. C.** (2008). Ground-based observational signature of a downward current channel in an active auroral arc. *Geophysical Research Letters*, 35(8). doi: L0810110.1029/2008gl033596
464. Mier, J. A., Sanchez, R., Garcia, L., Carreras, B. A., & **Newman, D. E.** (2008). Characterization of Nondiffusive Transport in Plasma Turbulence via a Novel Lagrangian Method. *Physical Review Letters*, 101(16). doi: 165001 10.1103/PhysRevLett.101.165001
465. Mier, J.A., Sanchez, R., Garcia, L., Carreras, B.A., & **Newman, D.E.** (2008). Characterization of non-diffusive transport in plasma turbulence via a novel Lagrangian method. *Physical Review Lett.*, 101(16), 165001.
466. Mier, J.A., Sanchez, R., Garcia, L., **Newman, D.E.**, & Carreras, B.A. (2008). On the nature of transport in near-critical dissipative trapped electron turbulence: effect of a subdominant diffusive channel. *Physics of Plasmas*, 15(112301).
467. Mier, J. A., Sanchez, R., Garcia, L., **Newman, D. E.**, & Carreras, B. A. (2008). On the nature of transport in near-critical dissipative-trapped-electron-mode turbulence: Effect of a subdominant diffusive channel. *Physics of Plasmas*, 15(11). doi: 11230110.1063/1.3006088
468. Miller, M. J., Bermingham, E., Klicka, J., Escalante, P., Do Amaral, F. S. R., Weir, J. T., & **Winker, K.** (2008). Out of Amazonia again and again: episodic crossing of the Andes promotes diversification in a lowland forest flycatcher. *Proceedings of the Royal Society B-Biological Sciences*, 275(1639), 1133-1142. doi: 10.1098/rspb.2008.0015

## UAF Faculty Peer-Reviewed Publications 2008

469. Miller, S.E., **Quinn, T.J.**, & Ianelli, J.N. . (2008). Estimation of age-specific migration in an age-structured model *Resiliency of Gadid Stocks to Fishing and Climate Change* (Vol. AK-SG-08-01, pp. 161 – 178 ). Fairbanks, Alaska: Alaska Sea Grant College Program, University of Alaska Fairbanks.
470. Miller, Thaddeus R., Baird, Timothy D., Littlefield, Caitlin M., **Kofinas, Gary, Chapin III, F. Stuart**, & Redman, Charles L. (2008). Synthesis Epistemological Pluralism: Reorganizing Interdisciplinary Research. *African Journal of Ecology Cetacean Research and Management Society*, 13(2), 31-46.
471. Miller, T.R. , Baird, T. D. , Littlefield, C. M. , **Kofinas, G. P.**, Chapin, III, F. , & Redman, C. L. . (2008). Epistemological pluralism: reorganizing interdisciplinary research. *Ecology and Society*, 13(2), 46.
472. **Mincks, S. L.**, Smith, C. R., Jeffreys, R. M., & Sumida, P. Y. G. (2008). Trophic structure on the West Antarctic Peninsula shelf: Detritivory and benthic inertia revealed by delta C-13 and delta N-15 analysis. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(22-23), 2502-2514. doi: 10.1016/j.dsr2.2008.06.009
473. **Molders, N.** (2008). Suitability of the Weather Research and Forecasting (WRF) Model to Predict the June 2005 Fire Weather for Interior Alaska. *Weather and Forecasting*, 23(5), 953-973. doi: 10.1175/2008waf2007062.1
474. **Molders, N.**, Luijting, H., & **Sassen, Ken**. (2008). Use of Atmospheric Radiation Measurement program data from Barrow, Alaska for evaluation and development of snow albedo parameterizations. *Meteor Atmos Phys*, 99, 199-219.
475. **Molders, N.**, Luijting, H., & **Sassen, K.** (2008). Use of atmospheric radiation measurement program data from Barrow, Alaska, for evaluation and development of snow-albedo parameterizations. *Meteorology and Atmospheric Physics*, 99(3-4), 199-219. doi: 10.1007/s00703-007-0271-6
476. **Molders, N.**, Morton, D., Newby, G., Stevens, E., & **Stuefer, M.** (2008). Now and forecasting Alaska weather. *Bull. of the Amer. Meteor. Soc.*, 89, 515-519.
477. **Molders, N.**, Morton, D., Newby, G., Stevens, E., & **Stuefer, M.** (2008). Nowcasting and forecasting Alaskan weather. *Bulletin of the American Meteorological Society*, 89(4), 515-519. doi: 10.1175/bams-89-4-515
478. **Molders, N.**; **Morton, D.**; **Newby, G.B.**; Stevens, E.; **Stuefer, M.** (2008). Nowcasting and Forecasting Alaskan Weather. *Bulletin of the American Meteorological Society*(April 2008), 5.
479. Mongrain, J., **Larsen, J. F.**, & King, P. L. (2008). Rapid water exsolution, degassing, and bubble collapse observed experimentally in K-phonolite melts. *Journal of Volcanology and Geothermal Research*, 173(3-4), 178-184. doi: 10.1016/j.jvolgeores.2008.01.026
480. **Moon, B. B., David M.** and McCluskey, John (2008). "General strain theory and delinquency: focusing on the influences of strain characteristics on



## UAF Faculty Peer-Reviewed Publications 2008

- delinquency." *Crime and Delinquency* **54**(4): 582-613.
481. Morris, A. B., **Ickert-Bond, S. M.**, Brunson, D. B., Soltis, D. E., & Soltis, P. S. (2008). Phylogeographical structure and temporal complexity in American sweetgum (*Liquidambar styraciflua*; Altingiaceae). *Molecular Ecology*, *17*(17), 3889-3900. doi: 10.1111/j.1365-294X.2008.03875.x
482. Morris, A.B., **Ickert-Bond, S.T.**, Brunson, B., Soltis, D.E., & Soltis, P.S. (2008). Phylogeographical structure and temporal complexity in American sweetgum (*Liquidambar styraciflua*; Altingiaceae). *Molecular Ecology*, *17*, 3889-3900.
483. **Motyka, Roman**, Lawson, D., Finnegan, D., Kalli, G., Molnia, B., & **Arendt, Anthony**. (2008). Hubbard Glacier Update: Another Closure of Russell Fiord in the Making? *Journal of Glaciology*, *54*(112), 562-564.
484. Mu, H., Klotzkin, D., de Silva, A., Wagner, H. P., White, D., & **Sharpton, B.** (2008). Temperature dependence of electron mobility, electroluminescence and photoluminescence of Alq(3) in OLED. *Journal of Physics D-Applied Physics*, *41*(23). doi: 23510910.1088/0022-3727/41/23/235109
485. **Mueter, F.J.**, & Litzow, M.A. (2008). Sea ice retreat alters the biogeography of the Bering Sea continental shelf. *Ecological Applications*, *18*(2), 309-320.
486. Muir, A.M., **Sutton, T.M.**, Peeters, P.J., Claramunt, R.M., & Kinnunen, R.E. (2008). An Evaluation of Age Estimation Structures for Lake Whitefish in Lake Michigan: Selecting an Aging Method Based on Precision and a Decision Analysis. *North American Journal of Fisheries Management*, *28*(6), 1928-1940. doi: doi:10.1577/M08-014.1
487. **Mulder, C.P.H.**, Grant-Hoffman, M. Nicole, Towns, David R., Bellingham, Peter J., Wardle, David A., Durrett, Melody S., . . . Bonner, Karen I. (2008). Direct and indirect effects of rats: does rat eradication restore ecosystem functioning of New Zealand seabird islands? *Biological Invasions, online edition*.
488. **Mulder, C. P. H.**, Roy, B. A., & Gusewell, S. (2008). Herbivores and pathogens on *Alnus viridis* subsp *fruticosa* in Interior Alaska: effects of leaf, tree, and neighbour characteristics on damage levels. *Botany-Botanique*, *86*(4), 408-421. doi: 10.1139/b08-015
489. Mumbi, C.T., Marchant, R., Hooghiemstra, H., & **Wooller, M.J.** (2008). Late Quaternary vegetation reconstruction from the Eastern Arc Mountains, Tanzania. *Quaternary Research*, *69*(2), 326-341.
490. Munn, A. J., & **Barboza, P. S.** (2008). Could a big gut be too costly for muskoxen (*Ovibos moschatus*) in their first winter? *Zoology*, *111*(5), 350-362. doi: 10.1016/j.zool.2007.10.004
491. **Muskett, R.R.**, **Lingle, Craig**, Sauber, J.M., Post, A.S., Tangboarn, W.V., Rabus, B., & **Echelmeyer, Keith**. (2008). Airborne-Spaceborne DEM and Laser Altimetry-Derived Surface Elevation and Volume Changes of the Bering Glacier System, 1972-2006. *J. Glaciol*, *55*(190), 316-326.

## UAF Faculty Peer-Reviewed Publications 2008

492. **Muskett, R.R., Lingle, Craig**, Sauber, J.M., Post, A.S., Tangborn, W.V., & Rabus, B. (2008). Accelerating Wastage of the Malaspina Glacier System Alaska, USA and Yukon, Canada from 1927-2006. *J. Glaciol*, 54(188), 788-800.
493. **Muskett, R.R., Lingle, Craig**, Sauber, J.M., Rabus, B., & Tangborn, W.V. (2008). Acceleration of Surface Lowering on the Tidewater Glaciers of Icy Bay, Alaska, USA from InSAR DEMs and ICESat Altimetry. *Earth and Planetary Science Letters*, 265, 345-359. doi: 10.1016/j.epsl.2007.10.012
494. **Muskett, R.R.; Lingle, C.S.**; Sauber, J.M.; Post, A.S.; Tangborn, W.V.; Rabus, B.T. (2008). Accelerating Wastage of the Malaspina Glacier System Alaska, U.S.A., and Yukon, Canada, from 1972 to 2006. *Journal of Glaciology*, 54(188), 13.
495. **Muskett, R.R.; Lingle, C.S.**; Sauber, J.M.; Rabus, B.T.; Tangborn, W.V. (2008). Acceleration of Surface Lowering on the Tidewater Glaciers of Icy Bay, Alaska, U.S.A., from InSAR DEMs and ICESat Altimetry. *Earth and Planetary Science Letters*, 265, 16. doi: 10.1016/j.epsl.2007.10.012
496. Myers, M.J., Ylitalo, G.M., Krahn, M.M., Boyd, D., Calkins, D., Burkanov, V., & **Atkinson, S.** (2008). Organochlorine contaminants in endangered Steller sea lion pups (*Eumetopias jubatus*) from western Alaska and the Russian Far East. *Science of the Total Environment*, 396(1), 60-69. doi: DOI 10.1016/j.scitotenv.2008.02.008
497. Myers-Smith, I. H., Harden, J. W., Wilmking, M., Fuller, C. C., **McGuire, A. D., & Chapin, F. S.** (2008). Wetland succession in a permafrost collapse: interactions between fire and thermokarst. *Biogeosciences*, 5(5), 1273-1286.
498. Myers-Smith, I.H., Harden, J.W., Wilmking, M., Fuller, C.C., **McGuire, A.D., & Chapin III, F.S.** (2008). Wetland succession in a permafrost collapse: interactions between fire and thermokarst. *Biogeosciences*.
499. Nakamura, T.K.M., Fujimoto, M., & **Otto, A.** (2008). The structure of an MHD-scale Kelvin-Helmholtz vortex: Two dimensional two-fluid simulations including finite electron inertial effects. *Journal of Geophysical Research*, 113, 9204. doi: 10.1029/2007JA012803
500. Nakamura, T. K. M., Fujimoto, M., & **Otto, A.** (2008). Structure of an MHD-scale Kelvin-Helmholtz vortex: Two-dimensional two-fluid simulations including finite electron inertial effects. *Journal of Geophysical Research-Space Physics*, 113(A9). doi: A0920410.1029/2007ja012803
501. Nakamura, T.K.M.; Fujimoto, M.; **Otto, A.** (2008). The structure of an MHD-scale Kelvin-Helmholtz vortex: Two-dimensional two-fluid simulations including finite electron inertial effects. *Journal of Geophysical Research*, 113, 16. doi: 10.1029/2007JA012803
502. **Nance, K**, Bishop, M, & **Hay, B.** (2008). Virtual Machine Introspection: Observation or Interference? *IEEE Security & Privacy*, 6(5), 32-37.
503. Nelson Barber, S. , & **Lipka, J.** (2008). Rethinking the Case for Culture-based

## UAF Faculty Peer-Reviewed Publications 2008

- Curriculum: Conditions that Support Improved Mathematics Performance in Diverse Classrooms. In M & Mattai Brisk, P. (Ed.), *Language, Curriculum & Community in Teacher Preparation* (pp. 99-123). Mahwah, NJ: Lawrence Erlbaum.
504. Nelson, J. L., Zavaleta, E. S., & **Chapin, F. S.** (2008). Boreal fire effects on subsistence resources in Alaska and adjacent Canada. *Ecosystems*, 11(1), 156-171. doi: 10.1007/s10021-007-9114-z
505. Nelson, Joanna L., Zavaleta, Erika S., & **Chapin III, F. Stuart.** (2008). Boreal Fire Effects on Subsistence Resources in Alaska and Adjacent Canada. *Ecosystems*, 11, 156-171.
506. Newman, K., & **Springer, A.M.** (2008). Nocturnal activity by mammal-eating killer whales at a predation hot spot in the Bering Sea. *Marine Mammal Science*, 24(4), 990-999. doi: DOI 10.1111/j.1748-7692.2008.00236.x
507. **Ng, C.S.**, Rosenberg, D., Germaschewski, K., Pouquet, A., & **Bhattacharjee, A.** (2008). A Comparison of Spectral Element and Finite Difference Methods Statically Refined Nonconforming Grids for the MHD Island Coalescence Instability Problem. *Astrophys. J. Suppl.*, 177, 613.
508. **Ng, C.S.**; Bhattacharjee, A. (2008). A Constrained Tectonics Model for Coronal Heating. *The Astrophysical Journal*, 675(1). doi: 10.1086/525518
509. **Ng, C.S.**; Rosenberg, D.; Germaschewski, K.; Pouquet, A.; Bhattacharjee, A. (2008). A comparison of spectral element and finite difference methods using statically refined nonconforming grids for the MHD island coalescence instability problem. *The Astrophysical Journal Supplement Series*, 177(2). doi: 10.1086/588139
510. Nicolsky, D. J., **Romanovsky, V. E.**, Tipenko, G. S., & Walker, D. A. (2008). Modeling biogeophysical interactions in nonsorted circles in the Low Arctic. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s050.1029/2007jg000565
511. **Nicolsky, D.J.**, **Suleimani, E.N.**, & **Hansen, R.A.** (2008). Validation and verification of a numerical model for tsunami propagation and runup. *Pure and Applied Geophysics*.
512. Nicolsky, D.J.; **Romanovsky, V.E.**; Tipenko, G.S.; **Walker, D.A.** (2008). Biogeophysical interactions in nonsorted circles in the Low Arctic. *Journal of Geophysical Research*, 113(G3), 17. doi: 10.1029/2007JG000565
513. Nielsen, S. E., Stenhouse, G. B., Beyer, H. L., **Huettmann, F.**, & Boyce, M. S. (2008). Can natural disturbance-based forestry rescue a declining population of grizzly bears? *Biological Conservation*, 141(9), 2193-2207. doi: 10.1016/j.biocon.2008.06.020
514. Nilsson, P.B., **Hollmen, T.E.**, **Atkinson, S.**, MashbUrn, K.L., Tuomi, P.A., Esler, D., . . . Rizz, D.J. (2008). Effects of ACTH, capture, and short term confinement on glucocorticoid concentrations in harlequin ducks (*Histrionicus histrionicus*). *Comparative Biochemistry and Physiology a-Molecular &*

## UAF Faculty Peer-Reviewed Publications 2008

- Integrative Physiology*, 149(3), 275-283. doi: DOI 10.1016/j.cbpa.2008.01.002
515. Noormets, A., Desai, A.R., Cook, B.D., **Euskirchen, E.S.**, Ricciuto, D.M., Davis, K.J., Bolstad, P.V., Schmid, H.P., Vogel, C.V., Carey, E.V., Su, H.B. & Chen, J. (2008). Moisture sensitivity of ecosystem respiration: Comparison of 14 forest ecosystems in the Upper Great Lakes Region, USA. *Agricultural and Forest Meteorology*, 148, 216-230.
516. Nye, C. J., Coombs, M. L., **Larsen, J.**, Izbekov, P., Tilman, A., & Cameron, C. (2008). Augustine Volcano: Mg, Cr, & Ni-rich; LILE, REE and HFSE-poor. *Geochimica Et Cosmochimica Acta*, 72(12), A692-A692.
517. **O'Brien, D. M.**, Min, K. J., Larsen, T., & Tatar, M. (2008). Use of stable isotopes to examine how dietary restriction extends *Drosophila* lifespan. *Current Biology*, 18(4), R155-R156.
518. O'Donnell, J.A., **Romanovsky, V.E.**, Harden, J.W., Yoshikawa, K., & McGuire, A.D. (2008). The effect of soil moisture and ice content on the thermal conductivity of organic soil horizons underlain by discontinuous permafrost, Extended Abstract. *Ninth International Conference on Permafrost*, 227-228.
519. **O'Hara, Todd M.**, Hanns, Cyd, Woshner, Victoria M., Zeh, Judy, Bratton, Gerald, & Taylor, Robert. (2008). Essential and non-essential elements in the bowhead whale: epidermis-based predictions of blubber, kidney, liver and muscle tissue concentrations. *Journal of Cetacean Research and Management*, 10(2), 107-117.
520. **Okkonen, S.R.**, & Belanger, C. (2008). Annual period temperature and salinity signals of surface waters in Prince William Sound, Alaska. *Geophysical Research Letters*, 35(14), -. doi: Artn L14604Doi 10.1029/2008gl034456
521. **Okkonen, S.R.**, & Bélanger, C. (2008). A child's view of circulation in Prince William Sound, Alaska. *Oceanography*, 21(2), 54-57.
522. **Oliveira, A.C.M., Crapo, C.A., Himelbloom, B.H.**, Morey, A., & Ambardekar, A. (2008). Development and characterization of vacuum packaged wild pink salmon (*Oncorhynchus gorbuscha*) jerkies using marinades. In **D. Kramer** & L. Brown (Eds.), *International Smoked Seafood Conference Proceedings* (pp. 67-74). Fairbanks, Alaska: Alaska Sea Grant College, University of Alaska Fairbanks.
523. **Olson, J.**, & **Szuberla, C.** (2008). Processing infrasonic array data. *Handbook of Signal Processing in Acoustics*, 2.
524. **Olson, J., Wilson, C., Szuberla, C., McNutt, S., Tytgat, G.**, & Drob, D. (2008). Infrasonic observations of the 2006 augustine Volcano eruptions at I53US. *USGS Professional Paper*.
525. **Olson, Link E.**, Sargis, Eric J., Stanley, William T., Hildebrandt, Kyndall, & Davenport, Tim R.B. (2008). Additional molecular evidence strongly supports

## UAF Faculty Peer-Reviewed Publications 2008

- the distinction between the recently described African primate *Rungwecebus kipunji* (Cercopithecidae, Papionini) and *Lophocebus*. *Molecular Phylogenetics and Evolution*, 48, 789-794.
526. **Olson, L. E.**, Sargis, E. J., Stanley, W. T., Hildebrandt, K. B. P., & Davenport, T. R. B. (2008). Additional molecular evidence strongly supports the distinction between the recently described African primate *Rungwecebus kipunji* (Cercopithecidae, Papionini) and *Lophocebus*. *Molecular Phylogenetics and Evolution*, 48(2), 789-794. doi: 10.1016/j.ympev.2008.04.031
527. Olson, T.K., & **Criddle, K.R.** (2008). Industrial evolution: a case study of Chilean salmon aquaculture. *Aquaculture Economics and Management*, 12, 1-18.
528. Oommen, T., Baise, L.G., **Gens, R.**, **Prakash, A.**, & Gupta, R.P. (2008). Multisensor and Multispectral Approach in Documenting and Analyzing Liquefaction Hazard using Remote Sensing. *EOS Trans*, 89(53).
529. Oommen, Thomas, **Misra, Debasmita**, Twarakavi, Navin, Prakash, Anupma, Sahoo, Bhaskar, & **Bandopadhyay, Sukumar**. (2008). An Objective Analysis of Support Vector Machine Based Classification for Remote Sensing. *Mathematical Geosciences*, 40(4), 409-424. doi: 10.1007/s11004-008-9156-6
530. Oommen, T., Misra, D., Twarakavi, N.K., **Prakash, A.**, Sahoo, B.C., & Bandopadhyay, S. (2008). An objective analysis of support vector machine based classification for remote sensing. *Mathematical Geosciences*, 40(4), 409-424.
531. Oommen, T., Misra, D., Twarakavi, N. K. C., **Prakash, A.**, Sahoo, B., & Bandopadhyay, S. (2008). An objective analysis of Support Vector Machine based classification for remote sensing. *Mathematical Geosciences*, 40(4), 409-424. doi: 10.1007/s11004-008-9156-6
532. Oommen, T., **Prakash, A.**, **Misra, D.**, **Naidu, S.**, **Kelley, J.J.**, & **Bandopadhyay, S.** (2008). GIS Based Marine Platinum Exploration, Goodnews Bay Region, Southwest Alaska. *Marine Georesources and Geotechnology*, 26(1), 1-18.
533. Oppel, S., & **Powell, A. N.** (2008). Assigning king eiders to wintering regions in the Bering Sea using stable isotopes of feathers and claws. *Marine Ecology-Progress Series*, 373, 149-156. doi: 10.3354/meps07744
534. Oppel, S., **Powell, A. N.**, & Dickson, D. L. (2008). Timing and distance of King Eider migration and winter movements. *Condor*, 110(2), 296-305. doi: 10.1525/cond.2008.8502
535. Oppel, S., **Powell, A.N.**, & **O'Brien, D.** (2008). Using Eggshell Membrane as a Non-invasive Tool to Investigate the Source of Nutrients in Avian Eggs. *Journal of Ornithology*, 1-7.
536. Oyama, S., **Watkins, B.J.**, Maeda, S., Shinagawa, H., Nozawa, S., Ogawa,

## UAF Faculty Peer-Reviewed Publications 2008

- Y., . . . Kofman, W. (2008). Generation of Lower-Thermospheric Vertical Wind Estimated with the EISCAT KST radar at High-Latitudes during Moderate Geomagnetic Disturbance. *Ann. Geophys.*, 26, 1491-1505.
537. Oyama, S., **Watkins, B. J.**, Maeda, S., Shinagawa, H., Nozawa, S., Ogawa, Y., . . . Kofman, W. (2008). Generation of the lower-thermospheric vertical wind estimated with the EISCAT KST radar at high latitudes during periods of moderate geomagnetic disturbance. *Annales Geophysicae*, 26(6), 1491-1505.
538. **PaiMazumder, D.**, Miller, J. , Li, Z., Walsh, John, Etringer, A., McCreight, J., . . . **Molders, N.** (2008). Evaluation of Community Climate System Model soil temperatures using observations from Russia. *Theor. Appl Climatol*, 94, 187-213.
539. PaiMazumder, D., Miller, J., Li, Z., Walsh, J. E., Etringer, A., McCreight, J., . . . **Molders, N.** (2008). Evaluation of Community Climate System Model soil temperatures using observations from Russia. *Theoretical and Applied Climatology*, 94(3-4), 187-213. doi: 10.1007/s00704-007-0350-0
540. Pamperin, N. J., **Follmann, E. H.**, & Person, B. T. (2008). Sea-ice use by arctic foxes in northern Alaska. *Polar Biology*, 31(11), 1421-1426. doi: 10.1007/s00300-008-0481-5
541. **Panda, S.**, **Prakash, A.**, & **Solie, D.** (2008). Identification of Surface Signatures Indicative of Near-Surface Permafrost in the Alaska Highway Corridor. *EOS Trans*, 89(53).
542. Park, W., & **Shirley, T.C.** (2008). Development and Distribution of Dungeness Crab Larvae in Glacier Bay and Neighboring Straits in Southeastern Alaska: Implications for Larval Advection and Retention. *Animal Cells and Systems*, 12(4), 279-286.
543. Park, W., & **Shirley, T.C.** (2008). Variations of Abundance and Hatch Timing of Dungeness Crab Larvae in Southeastern Alaska: Implications for Climate Effect. *Animal Cells and Systems*, 12(4), 287-295.
544. Parker, P., Harvey, J.T., Maniscalco, J.M., & **Atkinson, S.** . (2008). Pupping and site fidelity among individual Steller sea lions (*Eumetopias jubatus*) at Chiswell Island, Alaska. *Canadian Journal of Zoology*, 309A(2), 73-82.
545. Pearce, John M., Blums, Peter, & **Lindberg, Mark S.** (2008). Site Fidelity Is an Inconsistent Determinant of Population Structure in the Hooded Merganser (*Lophodytes cucullatus*): Evidence from Genetic, Mark–Recapture, and Comparative Data. *The Auk*, 125(3), 711-72522.
546. Pearce, J. M., Blums, P., & **Lindberg, M. S.** (2008). Site fidelity is an inconsistent determinant of population structure in the hooded merganser (*Lophodytes cucullatus*): Evidence from genetic, mark-recapture, and comparative data. *Auk*, 125(3), 711-722. doi: 10.1525/auk.2008.07154
547. Pedersen, T., Esposito, R., Kendall, E., **Sentman, D.**, Kosch, M., Mishin, E., & Marshall, R. (2008). Observations of artificial and natural optical emissions

## UAF Faculty Peer-Reviewed Publications 2008

- at the HAARP facility. *Annales Geophysicae*, 26(5), 1089-1099.
548. **Peterson, Rorik A.**, & Dean, Ken G. (2008). Forecasting exposure to volcanic ash based on ash dispersion modeling. *Journal of Volcanology and Geothermal Research*, 170(3-4), 230-246. doi: DOI: 10.1016/j.jvolgeores.2007.10.003
549. **Petitto, S. C.**, Tanwar, K., Ghose, S. K., Eng, P., & **Trainor, T. P.** (2008). COLL 274-Surface structure and composition of oxidized and reduced hydrated magnetite (111). *Abstracts of Papers of the American Chemical Society*, 235, 274-COLL.
550. Petrauskas, L., **Atkinson, S.**, Gulland, F., **Mellish, J.A.**, & Horning, M. (2008). Monitoring glucocorticoid response to rehabilitation and research procedures in California and Steller sea lions. *Journal of Experimental Zoology Part a-Ecological Genetics and Physiology*, 309A(2), 73-82. doi: Doi 10.1002/Jez.435
551. Pickett, Z. N., **Howard, W. A.**, & Graves, C. R. (2008). 4-chloro-2,6-bis(hydroxymethyl)pyridinium chloride and 4-dimethylamino-2,6-bis(hydroxymethyl)pyridinium chloride hemihydrate. *Journal of Chemical Crystallography*, 38(9), 717-721. doi: 10.1007/s10870-008-9439-2
552. Pilavtepe-Çelik, M., Alpas, H., Yousef, A.E., & **Balaban, M.** (2008). Image Analysis Based Quantification of Bacterial Volume Change with High Hydrostatic Pressure. *Journal of Food Science*, 73(9), M423-M429.
553. Pinchuk, A.I., & **Coyle, K.O.** (2008). Distribution, egg production and growth of euphausiids in the vicinity of the Pribilof Islands, southeastern Bering Sea, August 2004. *Deep Sea Research Part II: Topical Studies in Oceanography*, 55(16-17), 1792-1800.
554. Pinchuk, A.I., **Coyle, K.O.**, & **Hopcroft, R.R.** (2008). Climate-related variability in abundance and reproduction of euphausiids in the northern Gulf of Alaska in 1998-2003. *Progress in Oceanography*, 77(2-3), 203-216. doi: DOI 10.1016/j.pocean.2008.03.012
555. **Ping, C.L.**, Michaelson, G.J., Jorgensen, M.T., Kimble, J.M., Epstein, H., Romanovsky, V.E., & Walker, D.A. (2008). High stocks of soil organic carbon in North American Arctic region. *Nature Geoscience*, 1, 615-619. doi: 10.1038/ngeo284
556. Ping, C. L., Michaelson, G. J., Jorgenson, M. T., Kimble, J. M., Epstein, H., **Romanovsky, V. E.**, & **Walker, D. A.** (2008). High stocks of soil organic carbon in the North American Arctic region. *Nature Geoscience*, 1(9), 615-619. doi: 10.1038/ngeo284
557. Ping, C.L., Michaelson, G.J., Kimble, J.M., **Romanovsky, V.E.**, Shur, Y.L., Swanson, D.A., & Walker, D.A. (2008). Cryogenesis and soil formation along a bioclimate gradient in Arctic North America. *Journal of Geophysical Research*, 113(G03S06). doi: 10.1029/2008JG000744

## UAF Faculty Peer-Reviewed Publications 2008

558. **Ping, C. L.**, Michaelson, G. J., Kimble, J. M., **Romanovsky, V. E.**, Shur, Y. L., Swanson, D. K., & **Walker, D. A.** (2008). Cryogenesis and soil formation along a bioclimate gradient in Arctic North America. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s1210.1029/2008jg000744
559. Ping, Chien-Lu, Michaelson, Gary J., Jorgenson, Mark T., Kimble, John M., Epstein, Howard, Romanovsky, Vladimir E., & **Walker, Donald A.** (2008). High stocks of soil organic carbon in the North American Arctic region. *Nature Geoscience, Advance Online Publication*.
560. Piraino, S., **Bluhm, B.A.**, **Gradinger, R.**, & Boero, F. (2008). *Sympagohydra tuuli* gen. nov. et sp. Nov. (Cnidaria: Hyrdozoa) a cool hydroid from the Arctic sea ice. *Journal of the Marine Biological Association of the UK*, 88(8), 1637-1641.
561. Plante, S., **Smiley, S.**, **Oliveira, A. C. M.**, Stone, D. A. J., Hardy, R. W., & Bechtel, P. J. (2008). Testes meals made from Alaska's seafood processing byproducts. *Journal of Aquatic Food Product Technology*, 17(2), 195-211. doi: Doi 10.1080/10498850801937265
562. Pollitt, M, **Nance, K**, **Hay, B**, Dodge, RC, Craiger, P, Burke, P, . . . Brubaker, B. (2008). Virtualization and digital Forecnsics: A Research and Education Agenda. *Journal of Digital Forensic Practice*, 2(2), 62-73.
563. **Polyakov, I.V.**; Alexeev, V.A.; Belchansky, G.I.; Dmitrenko, I.A.; Ivanov, V.V.; Kirillov, S.A.; Korablev, A.A.; Steele, M.; Tomokhov, L.A.; Yashayaev, I. (2008). Arctic Ocean freshwater changes over the past 100 years and their causes. *Journal of Climate*, 21(2), 21. doi: 10.1175/2007JCLI1748.1
564. Porter, S.S., **Eckert, G.L.**, Byron, C.J., & Fisher, J.L. (2008). Comparison of light traps and plankton tows for sampling brachyuran crab larvae in an Alaskan fjord. *Journal of Crusta* **Palter, M.** (2008). The Evolution of a Performance Practice: Thomas DeLio's wave/s., Edwin Mellen Press.
565. **Potter, B.** (2008). "Radiocarbon chronology of Central Alaska: Technological continuity and economic change." *Radiocarbon* 50(2): 181-204.
566. **Potter, B.** (2008). Tanana River Basin. *Archeology in America*. L. S. C. Francis P. McManamon, Kent Lightfoot and Geoarge R. Milner, Greenwood Publishing Group.
567. **Potter, B.** a. **G., S. Craig** (2008). Brooks Range. *Archeology in America*. L. S. C. Francis P. McManamon, Kent Lightfoot, and George R. Milner, Greenwood Publishing. *Ocean Biology*, 28(1), 175-179.
568. **Prakash, A.**, **Bailey, J.E.**, & **Webley, P.W.** (2008). Intergrating Virtual Globe Research Applications into Educational Curriculum. *Geological Society of America*.
569. **Prakash, A.**; **Collett, Timothy**; **Hanks, K**; **Fisk, Robert F.**; **Papp, Kristin**; & **Sarkar, Sudipta**. (2008). Terrestrial Gas Hydrate Characterization in Alaska North Slope: Exploring New Ideas and Research Directions. *Geological Society of America*.



## UAF Faculty Peer-Reviewed Publications 2008

570. **Prakash, A.**, & Connor, C. (2008). Recruiting first generation college students into the Geosciences:Alaska's EDGE project. *EOS Trans*, 89(53).
571. **Prakash, A.**, Engle, K., **Panda, S.**, Margraf, J., & **Underwood, T.** (2008). Nearshore Thermal Habitat and General Circulation Mapping in Arctic Alaskan Coasts Using Archived AVHRR Images. *EOS Trans, AGU* 89(53).
572. Pruett, C. L., Arcese, P., Chan, Y. L., Wilson, A. G., Patten, M. A., Keller, L. F., & **Winker, K.** (2008). Concordant and discordant signals between genetic data and described subspecies of Pacific coast Song Sparrows. *Condor*, 110(2), 359-364. doi: 10.1525/cond.2008.8475
573. Pruett, C. L., Arcese, P., Chan, Y. L., Wilson, A. G., Patten, M. A., Keller, L. F., & **Winker, K.** (2008). The effects of contemporary processes in maintaining the genetic structure of western song sparrows (*Melospiza melodia*). *Heredity*, 101(1), 67-74. doi: 10.1038/hdy.2008.31
574. Pruett, C. L., & **Winker, K.** (2008). The effects of sample size on population genetic diversity estimates in song sparrows *Melospiza melodia*. *Journal of Avian Biology*, 39(2), 252-256. doi: 10.1111/j.2008.0908-8857.04094.x
575. Pruett, C. L., & **Winker, K.** (2008). Evidence for cryptic northern refugia among high- and temperate-latitude species in Beringia - A response to Stewart and Dalen (2008). *Climatic Change*, 86(1-2), 23-27. doi: 10.1007/s10584-007-9332-6
576. Psoch, C., & **Schiewer, S.** (2008). Long-term flux improvement by air sparging and backflushing for a membrane bioreactor, and modeling permeability decline. *Desalination*, 230(1-3), 193-204. doi: DOI: 10.1016/j.desal.2007.11.026
577. Quattrochi, D.A., **Prakash, A.**, Eveva, M., Wright, R., Hall, D.K., Anderson, M., . . . Coolbaugh, M.F. (2008). *Thermal Remote Sensing: Theory, Sensors, Applications* (Vol. 4th Ed).
578. **Radic, V.**, **Hock, Regine**, & Oerlemans, J. (2008). Analysis of scaling methods in deriving future volume evolutions of valley glaciers. *Journal of Glaciology*, 54(187), 601-612.
579. Raikevich, M.I., **Stone, David**, & **Layer, Paul**. (2008). Age and Paeomagnetism of the Okhotsk-Chukotka Volcanic Belt near Elgygytgyn, Chukotka, Russia. *Geophysical Journal International*.
580. **RaLonde, R.** (2008). The Alaska shellfish farming financial planning program. *Journal of Shellfish Research*, 27(4), 1045-1045.
581. **RaLonde, R.** (2008). *Vibrio parahaeamolyticus* in Alaska: Results three years after the Prince William sound outbreak. *Journal of Shellfish Research*, 27(4), 1044-1045.
582. Reynolds, M. K., Comiso, J. C., **Walker, D. A.**, & **Verbyla, D.** (2008). Relationship between satellite-derived land surface temperatures, arctic vegetation types, and NDVI. *Remote Sensing of Environment*, 112(4),

## UAF Faculty Peer-Reviewed Publications 2008

- 1884-1894. doi: 10.1016/j.rse.2007.09.008
583. Raynolds, M.K., Comiso, J.C., Walker, D.A. , & **Verbyla, D.L.** ( 2008.). Relationship between satellite-derived land surface temperatures, arctic vegetation types, and NDVI. *Remote Sensing of Environment*, 112, 1884-1894.
584. Raynolds, M. K., **Walker, D. A.**, Munger, C. A., Vonlanthen, C. M., & Kade, A. N. (2008). A map analysis of patterned-ground along a north American Arctic Transect. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s0310.1029/2007jg000512
585. Read, Amanda, Vogl, Sigrid J., **Hueffer, Karsten**, Gallagher, Larry A., & Happ, George M. (2008). Francisella Genes Required for Replication in Mosquito Cells. *Journal of Medical Entomology*, 45(6), 1108-1116.
586. Reijmer, C.H., & **Hock, Regine**. (2008). A distributed energy balance model including a multi-layer subsurface snow model. *Journal of Glaciology*, 54(184), 61-72.
587. Reijmer, C. H., & **Hock, R.** (2008). Internal accumulation on Storglacidren, Sweden, in a multi-layer snow model coupled to a distributed energy- and mass-balance model. *Journal of Glaciology*, 54(184), 61-72.
588. **Reilly, T.** w. S. T. (2008). "Hard science and the paranormal in *Gravity's Rainbow*: Precognition machines, cockroaches and not that Helmut Schmidt." *Pynchon Notes* 54-55(september 2008): 39-54. *South African Journal of Geology*.
589. Reimold, W.U., Gibson, R.L., **Layer, Paul**, Pybus, G.Q.J., & Colliston, W.P. (2008). Argon thermochronological analysis of selected mafic intrusions from the Vredfor **Reilly, T.** (2008). "Free Women and Freeman: the language of lobotomy in *The Golden Notebook*." *Doris Lessing Studies* 27(1.2): 17-23.
590. Reppond, K.L., Rugolo, L. , & **Oliveira, A.C.M.** (2008). Changes in biochemical composition during development of snow crab, *Chionocetes opilio*, embryos. *Journal of Crustacean Biology*, 28 (3), 519-527.
591. **Reynolds, Douglas**, & Kolodziej, M. (2008). Former Soviet Union Oil Production and GDP Decline: Granger Causality and the Multi-Cycle Hubbert Curve. [Refereed Journal Article]. *Energy Economics*, 30(2), 271-289.
592. **Reynolds, J.R.**, & Green, H.G. (Eds.). (2008). *Marine Habitat Mapping Technology for Alaska*. Fairbanks, Alaska: Alaska Sea Grant College Program, University of Alaska Fairbanks
593. **Reynolds, J.R.**, Greene, H.G., Kurland, J., Woodby, D., & **Allee, B.** (2008). Overview: Marine habitat mapping technology for Alaska. In J.R. Reynolds & H.G. Greene (Eds.), *Marine Habitat Mapping Technology for Alaska* (pp. 1-11). Fairbanks, Alaska: Alaska Sea Grant, University of Alaska Fairbanks.
594. **Reynolds, J.R.**, Greene, H.G., Kurland, J., Woodby, D., & **Allee, B.** (2008). Workshop Report: Marine Habitat Mapping Technology Workshop for

## UAF Faculty Peer-Reviewed Publications 2008

- Alaska. In J.R. Reynolds & H.G. Greene (Eds.), *Marine Habitat Mapping Technology for Alaska* (pp. 237-265). Fairbanks, Alaska: Alaska Sea Grant College Program, University of Alaska Fairbanks.
595. Ripepe, M., Burton, M., Caltabiano, G., **Dehn, J.**, Fiaschi, A., Harris, A.J.L., . . . Wright, R. (2008). A novel integrated geophysical approach to predicting, tracking and understanding volcanic eruptions: A case study from Stromboli. *Science, 2002-2003*.
596. Riseborough, D., Shiklomanov, N., Etzelmuller, B., Gruber, S., & **Marchenko, S.** (2008). Recent Advances in Permafrost Modeling. *Permafrost and Periglacial Processes, 19*, 137-156.
597. Ritchie, J., **Lingle, Craig, Motyka, Roman, & Truffer, M.** (2008). Seasonal fluctuations in the advance of a tidewater glacier and potential causes: Hubbard Glacier, Alaska, USA. *J. Glaciol, 54(186)*, 401-411.
598. Ritchie, J. B., Lingle, C. S., Motyka, R. J., & **Truffer, M.** (2008). Seasonal fluctuations in the advance of a tidewater glacier and potential causes: Hubbard Glacier, Alaska, USA. *Journal of Glaciology, 54(186)*, 401-411.
599. **Rivkin, I.** (2008). "NIMH Multisite HIV/STD Prevention Trial for African American Couples Group (2008a). Formative study to develop the EBAN treatment and comparison interventions for couples." *Journal of Acquired Immune Deficiency Syndromes 49(Supp1)*: S42-S51.
600. **Rivkin, I.** (2008). "NIMH Multisite HIV/STD Prevention Trial for African American Couples Group (2008b). Supervision of facilitators in a multisite study: Goals, process and outcomes." *Journal of Acquired Immune Deficiency Syndromes 49((Supp1)*: S59-S67.
601. Robards, M. , & **Joly, J.L.** . (2008). Interpretation of 'Wasteful Manner' within the Marine Mammal Protection Act and its Role in Management of the Pacific Walrus. *13 Ocean and Coastal Law Journal, 171*.
602. Roberts, J.H., & **Rosenberger, A.E.** (2008). Threatened fishes of the world: Percina rex (Jordan and Evermann 1889) (Percidae). *Environmental Biology of Fishes, 83(4)*, 439-440. doi: 10.1007/s10641-008-9353-7
603. Roberts, J.H., **Rosenberger, A.E.**, Albanese, B.W., & Angermeier, P.L. (2008). Movement patterns of endangered Roanoke logperch (Percina rex). *Ecology of Freshwater Fish, 17(3)*, 374-381. doi: DOI 10.1111/j.1600-0633.2007.00288.x
604. Rogers-Cotrone, J., Yankovsky, A.E., & **Weingartner, T.J.** (2008). The impact of spatial wind variations on freshwater transport by the Alaska Coastal Current. *Journal of Marine Research, 66*, 899-925.
605. Rohrs-Richey, Jennifer K., & **Mulder, Christa P.H.** (2008). Effects of local changes in active layer and soil climate on seasonal foliar nitrogen concentrations of three boreal forest shrubs. *Canadian Journal of Forest Research, 37(2)*, 383-394.

## UAF Faculty Peer-Reviewed Publications 2008

606. Rosa, C., **Blake, J. E.**, Bratton, G. R., Dehn, L. A., Gray, M. J., & **O'Hara, T. M.** (2008). Heavy metal and mineral concentrations and their relationship to histopathological findings in the bowhead whale (*Balaena mysticetus*). *Science of the Total Environment*, 399(1-3), 165-178. doi: 10.1016/j.scitotenv.2008.01.062
607. Roussel-Dupre, R., Colman, J. J., Symbalisky, E., **Sentman, D.**, & Pasko, V. P. (2008). Physical processes related to discharges in planetary atmospheres. *Space Science Reviews*, 137(1-4), 51-82. doi: 10.1007/s11214-008-9385-5
608. **Ruppert, J.** (2008). Survivance in the works of Velma Wallis. *Survivance: Narratives of Native Presence*. G. Vizenor. Lincoln, University of Nebraska Press: 285-295.
609. **Rybkin, A.** (2008). On the evolution of a reflection coefficient under the Korteweg-de Vries flow. *Journal of Mathematical Physics*, 49(7). doi: 10.1063/1.2951897
610. Safine, D. E., & **Lindberg, M. S.** (2008). Nest habitat selection of White-winged Scoters on Yukon Flats, Alaska. *Wilson Journal of Ornithology*, 120(3), 582-593.
611. **Saito, K.** (2008). Arctic Land Hydro-thermal Sensitivity under Warming: Idealized Off-Line Evaluation of Physical Terrestrial Scheme in Global Climate Model. *Journal of Geophysical Research*, 113, 11. doi: 10.1029/2008JD009880
612. Saleem, M., Brim, H., Hussain, S., Arshad, M., **Leigh, M.B.**, & Zia-Ul-Hassan. (2008). Perspective on microbial cell surface display in bioremediation. *Biotechnology Advances*, 26, 151-161.
613. Salem, M., Brim, H., Hussain, S., Arshad, M., **Leigh, M. B.**, & Zia ul, hassan. (2008). Perspectives on microbial cell surface display in bioremediation. *Biotechnology Advances*, 26(2), 151-161. doi: 10.1016/j.biotechadv.2007.10.002
614. Sanchez, R., **Newman, D. E.**, Leboeuf, J. N., Decyk, V. K., & Carreras, B. A. (2008). Nature of Transport across Sheared Zonal Flows in Electrostatic Ion-Temperature-Gradient Gyrokinetic Plasma Turbulence. *Physical Review Letters*, 101(20). doi: 20500210.1103/PhysRevLett.101.205002
615. Sanchez, R., **Newman, D.E.**, Leboeuf, J.N., Decyk, V.K., & Carreras, B.A. (2008). On the nature of transport across sheared zonal flows in electrostatic, toroidal gyrokinetic plasma turbulence. *Physical Review Lett.*, 101(20), 205002.
616. Sanders, C. J., Smoak, J. M., **Naidu, A. S.**, & Patchineelamt, S. R. (2008). Recent sediment accumulation in a mangrove forest and its relevance to local sea-level rise (Ilha Grande, Brazil). *Journal of Coastal Research*, 24(2), 533-536. doi: Doi 10.2112/07-0872.1
617. **Sassen, K.** (2008). Boreal tree pollen sensed by polarization lidar:

## UAF Faculty Peer-Reviewed Publications 2008

- Depolarizing biogenic chaff. *Geophysical Research Letters*, 35(18). doi: L18810 10.1029/2008gl035085
618. **Sassen, Kenneth**. (2008). *Identifying atmospheric aerosols with polarization lidar*.
619. **Sassen, K.**, & Khvorostyanov, V. I. (2008). Cloud effects from boreal forest fire smoke: evidence for ice nucleation from polarization lidar data and cloud model simulations. *Environmental Research Letters*, 3(2). doi: 02500610.1088/1748-9326/3/2/025006
620. **Sassen, K.**, & Wang, Z. (2008). Classifying clouds around the globe with the CloudSat radar: 1-year of results. *Geophysical Research Letters*, 35(4). doi: L0480510.1029/2007gl032591
621. **Sassen, K.**, Wang, Z., & Liu, D. (2008). Global distribution of cirrus clouds from CloudSat/Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observations (CALIPSO) measurements. *Journal of Geophysical Research-Atmospheres*, 113(D20). doi: D00a1210.1029/2008jd009972
622. **Sassen, K.**, & Zhu, J. (2008). The rainbow as interactive art: modeling the Elaisson Beauty installation at SFMOMA. *Applied Optics*, 47(34), H171-H175.
623. Sato, T., Miura, S., Ohta, Y., Fujimoto, H., **Sun, W.**, **Larsen, Christopher**, . . . **Frey Mueller, J.T.** (2008). Earth tides observed by gravity and GPS in southeastern Alaska. *Journ of Geodynamics*, 46(3-5), 78-89.
624. **Schiewer, Silke**, & Patil, Santosh B. (2008). Modeling the effect of pH on biosorption of heavy metals by citrus peels. *Journal of Hazardous Materials*, 157(1), 8-17. doi: DOI: 10.1016/j.jhazmat.2007.12.076
625. **Schiewer, Silke**, & Patil, Santosh B. (2008). Pectin-rich fruit wastes as biosorbents for heavy metal removal: Equilibrium and kinetics. *Bioresource Technology*, 99(6), 1896-1903. doi: DOI: 10.1016/j.biortech.2007.03.060
626. Schipper, J., Chanson, J. S., Chiozza, F., Cox, N. A., Hoffmann, M., Katariya, V., . . . **Powel, A.**, . . . **Taylor, B. L.**, . . . Young, B. E. (2008). The status of the world's land and marine mammals: Diversity, threat, and knowledge. *Science*, 322(5899), 225-230. doi: 10.1126/science.1165115
627. Schmidt, Joshua H., **Lindberg, Mark S.**, Johnson, Devin S., Conant, Bruce, & King, James. (2008). Evidence of Alaskan Trumpeter Swan Population Growth Using Bayesian Hierarchical Models. *The Journal of Wildlife Management*, 73(5), 720-727.
628. **Schnabel, WE**, Abichou, T, **Barnes, D**, Lee, W, Munk, J, & Pape, B. (2008). Assessing the Performance of a cold Region Evapotranspiration Landfill Cover using Lysimetry and Electrical Resistivity Tomography. *Journal of Phytoremediation*, In Press.
629. Schuler, T.V., Crochet, P., **Hock, Regine**, Jackson, M., Barstad, I., & Johannesson, T. (2008). Distribution of snow accumulation on Svartisen ice

## UAF Faculty Peer-Reviewed Publications 2008

- cap, Norway, assessed by a model for orographic precipitation. *Hydrological Processes*, 22, 3998-4008. doi: 10.1002/hyp.7073
630. Schuler, T. V., Crochet, P., **Hock, R.**, Jackson, M., Barstad, I., & Johannesson, T. (2008). Distribution of snow accumulation on the Svartisen ice cap, Norway, assessed by a model of orographic precipitation. *Hydrological Processes*, 22(19), 3998-4008. doi: 10.1002/hyp.7073
631. Schuur, E.A.G., Bockheim, J., Canadell, J.G., Euskirchen, E., Field, C.B., Goryachkin, S.V., **Romanovsky, V. E.** . . . Zimov, S.A. (2008). Vulnerability of permafrost carbon to climate change: Implications for the global carbon cycle. *Bioscience*, 58(8), 701-714.
632. Sedinger, J. S., Chelgren, N. D., Ward, D. H., & **Lindberg, M. S.** (2008). Fidelity and breeding probability related to population density and individual quality in black brent geese *Branta bernicla nigricans*. *Journal of Animal Ecology*, 77(4), 702-712. doi: 10.1111/j.1365-2656.2008.01403.x
633. **Seitz, A.C.** . (2008). Invited review: Robin N. Gibson (ed.), Flatfishes: Biology and Exploitation. *Fish Biology and Fisheries*, 18, 249-250.
634. Senocak, I., Henuartner, N. W., **Short, M. B.**, & Daniel, W. B. (2008). Stochastic event reconstruction of atmospheric contaminant dispersion using Bayesian inference. *Atmospheric Environment*, 42(33), 7718-7727. doi: 10.1016/j.atmosenv.2008.05.024
635. **Sentman, D.D.** (2008). Chemical effects of weak electric fields in the trailing columns of sprite streamers. *EOS Trans, AGU*.
636. **Sentman, D.D., McNutt, S., Stenbaek-Nielsen, H.C., Tytgat, G., & DeRoin, N.** (2008). Imaging Observations of Hot Thermal Emissions from Augustine Volcano Using a Small Astronomical Camera. "Journal?".
637. **Sentman, D.D., McNutt, S., Stenbaek-Nielsen, H.C., Tytgat, G., & DeRoin, N.** (2008). Imaging observations of hot thermal emissions from Augustine Volcano using a small astronomical camera. *USGS Prof. Paper, Special Issue on Augustine Eruptions 2005-2006*.
638. **Sentman, D.D., & Stenbaek-Nielsen, H.C.** (2008). Chemical effects of weak electric fields in the trailing columns of sprite streamers. *Plasma Sources Sci. Technol.*, 18(034012). doi: 10.1088/0963-0252/18/3/034012
639. **Sentman, D.D., Stenbaek-Nielsen, H.C.,** McHarg, M.G., & Morrill, J. (2008). Plasma chemistry of sprite streamers. *Journal of Geophysical Research*, 113(D11112). doi: 10.1029/2007JD008941
640. **Sentman, D. D., Stenbaek-Nielsen, H. C.,** McHarg, M. G., & Morrill, J. S. (2008). Plasma chemistry of sprite streamers. *Journal of Geophysical Research-Atmospheres*, 113(D11). doi: D1111210.1029/2007jd008941
641. Shen, H., **Quinn, T.J.**, Westpestad, V., Dorn, M.W., & Kookesh, M. (2008). Using acoustics to evaluate the effect of fishing on school characteristics of walleye pollock *Resiliency of Gadid Stocks to Fishing and Climate Change*

## UAF Faculty Peer-Reviewed Publications 2008

- (pp. 125 – 140 ). Fairbanks, Alaska: Alaska Sea Grant College Program, University of Alaska Fairbanks.
642. Shepler, D., Lupfer-Johnson, G., & **Rivkin, I. D** (2008). "The effects of yoga on self-objectification." *Psi Chi Journal of Undergraduate Research* **13**(4): 168-172.
643. Shpigalskaya, N.Y., Brykov, V.A., **Gharrett, A.J.**, Kukhlevsky, A.D., Shaporev, R.A., & Varnavskaya, N.V. (2008). Variation of mitochondrial DNA in chinook salmon *Oncorhynchus tshawytscha* Walbaum populations from Kamchatka. *Russian Journal of Genetics*, **44**(7), 849-858. doi: Doi 10.1134/S1022795408070132
644. Shuler, A.E., Eckstrom, G., **West, M.**, & Senyukov, S. (2008). Ambient Noise Tomography at Bezymianny Volcano, Kamchatka. *EOS Trans, AGU*(89), 53.
645. Shultz, M. T., & **Kitaysky, A. S.** (2008). Spatial and temporal dynamics of corticosterone and corticosterone binding globulin are driven by environmental heterogeneity. *General and Comparative Endocrinology*, **155**(3), 717-728. doi: 10.1016/j.ygcen.2007.11.002
646. Sicart, J.E., **Hock, Regine**, & Six, D. (2008). Glacier melt, air temperature, and energy balance in different climates: The Bolivian Tropics, the French Alps, and northern Sweden. *Journal of Geophysical Research*, **113**(D24113). doi: 10.1029/2008JD01406
647. Siddon, E.C., & **Stekoll, M.S.** (2008). Community level effects of *Nereocystis luetkeana* in southeastern Alaska. *Journal of Experimental Marine Biology and Ecology*, **361**, 8-15.
648. **Siekman, S.** (2008). Scaffolding During Collaborative WebQuests. Research on task-based language learning and teaching. Theoretical, methodological and pedagogical perspectives. J. Eckerth, Siekman, S. (Eds). NY, Lang.
649. **Sikes, D. S.**, Vamosi, S. M., Trumbo, S. T., Ricketts, M., & Venables, C. (2008). Molecular systematics and biogeography of *Nicrophorus* in part-The investigator species group (Coleoptera : Silphidae) using mixture model MCMC. *Molecular Phylogenetics and Evolution*, **48**(2), 646-666. doi: 10.1016/i.ympev.2008.04.034
650. **Simmons, H.L.** (2008). Spectral modification and geographic redistribution of the semi-diurnal tide. *Ocean Modelling*, **21**(3-4), 13. doi: 10.1016/j.ocemod.2008.01.002
651. Simon, A., **Eichelberger, J.**, **West, M.**, Ramsey, M., Newman, A., Reed, M., . . . Selyangin, O. (2008). Mutnovsky Volcano: Exploring the feedback loop between arc volcanism and continental hydrothermal systems. *EOS Trans, AGU*(53).
652. **Simpson, W. R.**, Alvarez-Aviles, L., & Carlson, D. (2008). PHYS 720-Arctic springtime halogen chemistry: The role of sea ice microstructures. *Abstracts of Papers of the American Chemical Society*, **235**, 720-PHYS.

## UAF Faculty Peer-Reviewed Publications 2008

653. Sinclair, E.H., Vlietstra, L.S., Johnson, D.S., Zeppelin, T. K., Byrd, G.V., **Springer, A.M.**, . . . Hunt, G.L. (2008). Patterns in prey use among fur seals and seabirds in the Pribilof Islands. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(16-17), 1897-1918. doi: DOI 10.1016/j.dsr2.2008.04.031
654. Sloan, D. B., Barr, C. M., **Olson, M. S.**, Keller, S. R., & **Taylor, D. R.** (2008). Evolutionary rate variation at multiple levels of biological organization in plant mitochondrial DNA. *Molecular Biology and Evolution*, 25(2), 243-246. doi: 10.1093/molbev/msm266
655. Smikrud, K., **Prakash, A.**, & Nichols, J. (2008). Decision based fusion for improved fluvial landscape classification using digital aerial photographs and forward looking infrared images. *Photogrammetric Engineering and Remote Sensing*, 74(7), 903-911.
656. Smikrud, K. M., **Prakash, A.**, & Nichols, J. V. (2008). Decision-based fusion for improved fluvial landscape classification using digital aerial photographs and forward looking infrared images. *Photogrammetric Engineering and Remote Sensing*, 74(7), 903-911.
657. Smith, C. R., **Mincks, S.**, & DeMaster, D. J. (2008). The FOODBANCS project: Introduction and sinking fluxes of organic carbon, chlorophyll-a and phytodetritus on the western Antarctic Peninsula continental shelf. *Deep-Sea Research Part II-Topical Studies in Oceanography*, 55(22-23), 2404-2414. doi: 10.1016/j.dsr2.2008.06.001
658. Snape, I, Acomb, LA, **Barnes, DL**, Brainbridge, S, **Filler, D**, Plato, N, . . . Walworth, J. (2008). *Contamination, Regulation, and Remediation: an Introduction to Bioremediation of Petroleum hydrocarbons in Cold Regions*: Cambridge University Press.
659. **Snifka, L.** (2008). Ebb and Flow. Challenges, Arctic Region Supercomputing Center.
660. **Snifka, L.** (2008). Numer 49 Turns 50. Alaska Magazine. May 2008.
661. **Snifka, L.** (2008). Riding the Wave. Challenges, Arctic Region Supercomputing Center. Summer 2008.
662. **Soria, J. A.** . (2008). Biomass for bio fuels: not all trees are equal. *Agroborealis*, 39(2), 7-9.
663. **Soria, J.A.**, McDonald, A.G., & He, B.B. (2008). Wood solubilization and depolymerization by supercritical methanol, Part 2: Analysis of methanol soluble compounds. *Holzforschung*, 62(4), 409-416.
664. **Soria, J.A.**, McDonald, A.G., & Shook, S.R. (2008). Wood solubilization and depolymerization using supercritical methanol, Part 1: Process optimization and analysis of methanol insoluble components (bio-char). *Holzforschung*, 62(4), 402-408.
665. Sparks, R.S.J., Folkes, C.B., Humphreys, M.C.S., Barford, D.N., Clavero, J.,



## UAF Faculty Peer-Reviewed Publications 2008

- Sunagua, M.C., **McNutt, S.** . . . Prtichard, M.E. (2008). UTURUNCU VOLCANO, BOLIVIA: VOLCANIC UNREST DUE TO MID-CRUSTAL MAGMA INTRUSION. *Amer. J. Science*, 308, 727-769.
666. **Sparrow, E.B.**, YLeMone, P., Yule, S., Boger, R., Galloni, M., & Kopplin, M. (2008). Pole to Pole Videoconferences Connect Students and Scientists. [Abstract]. *EOS Trans, AGU89(53)*.
667. **Sparrow, S. D.**, & masiak, d. (2008). Second harvest timing and cut height of forage crops in Central Alaska. *Agronomy Journal*, 100, 1615-1621.
668. Spellman, G. M., Cibois, A., Moyle, R. G., **Winker, K.**, & Barker, F. K. (2008). Clarifying the systematics of an enigmatic avian lineage: What is a bombycillid? *Molecular Phylogenetics and Evolution*, 49(3), 1036-1040. doi: 10.1016/j.ympev.2008.09.006
669. **Springer, A. M.**, Estes, J. A., van Vliet, G. B., Williams, T. M., **Doak, D. F.**, Danner, E. M., & Pfister, B. (2008). Mammal-eating killer whales, industrial whaling, and the sequential megafaunal collapse in the North Pacific Ocean: A reply to critics of Springer et al. 2003. *Marine Mammal Science*, 24(2), 414-442. doi: 10.1111/j.1748-7692.2008.00185.x
670. Stahl, J.P., & **Kruse, G.H.** (2008). Classification of ovarian stages of walleye pollock. In **G.H. Kruse**, K. Drinkwater, J.N. Ianelli, J.S. Link, D.L. Stram, V. Wespestad & D. Woodby (Eds.), *Resiliency of gadid stocks to fishing and climate change* (Vol. AK-SG-08-01, pp. 1-23). Fairbanks, Alaska: Alaska Sea Grant College Program.
671. Stahl, J.P., & **Kruse, G.H.** (2008). Spatial and Temporal Variability in Size at Maturity of Walleye Pollock in the Eastern Bering Sea. *Transactions of the American Fisheries Society*, 137(5), 1543-1557. doi: Doi 10.1577/T07-099.1
672. **Stenbaek-Nielsen, H.C.**, & Jenniskens, P.J. (2008). High speed spectrographic photometry of the Stardust Sample Return Capsule around peak deceleration. *Journal of Spacecraft and Rockets*.
673. **Stenbaek-Nielsen, H.C.**, & McHarg, M.G. (2008). High time-resolution sprite imaging: Observations and implications. *J. Phys. D.:Appl. Phys*, 41(234009).
674. Stevens, D., **Stephens, S.**, Burns, P. , Batzli, S. , & Olson, T. . (2008). MapTEACH: Place-based geospatial learning and applications in Alaska. *InstantPublisher, Collerville, Tennessee*, 405.
675. Stracher, Hower, Hielt, J., **Prakash, A.**, & Pone. (2008). Coal Fires: Gateway to Environmental Destruction and Human Suffering. *SportCom2008*.
676. Street-Perrott, F.A., Barker, P.A., Leng, M.J., Sloane, H.J., **Wooller, M.J.**, Ficken, K.J., & Swain, D.L. (2008). Towards an understanding of late Quaternary variations in the continental biogeochemical cycle of silicon: multi-isotope and sediment-flux data for Lake Rutundu, Mt Kenya, East Africa, since 38 ka BP. *Journal of Quaternary Science*, 23(4), 375-387. doi: Doi 10.1002/Jqs.1187

## UAF Faculty Peer-Reviewed Publications 2008

677. Su, B., Wang, X., **Drew, K. L.**, Perry, G., Smith, M. A., & Zhu, X. (2008). Physiological regulation of tau phosphorylation during hibernation. *Journal of Neurochemistry*, 105(6), 2098-2108. doi: 10.1111/j.1471-4159.2008.05294.x
678. Su, L. G., **Collins, R. L.**, Krueger, D. A., & She, C. Y. (2008). Statistical analysis of sodium Doppler wind-temperature lidar measurements of vertical heat flux. *Journal of Atmospheric and Oceanic Technology*, 25(3), 401-415. doi: 10.1175/2007jtecha915.1
679. Suding, K. N., Lavorel, S., **Chapin, F. S.**, Cornelissen, J. H. C., Diaz, S., Garnier, E., . . . Navas, M. L. (2008). Scaling environmental change through the community-level: a trait-based response-and-effect framework for plants. *Global Change Biology*, 14(5), 1125-1140. doi: 10.1111/j.1365-2486.2008.01557.x
680. Suding, Katharine N., Lavorel, Sandra, **Chapin III, F. Stuart**, Cornelissen, Johannes H.C., Diaz, Sandra, Garnier, Eric, . . . Navas, Marie-Laure. (2008). Scaling environmental change through the community-level: a trait-based response-and-effect framework for plants. *Global Change Biology*, 14, 1125-1140.
681. **Sueleimani, E., Nicolisky, D.J., West, D.**, Combellick, R.A., & **Hansen, R.A.** (2008). Tsunami Inundation Maps of Seward and northern Resurrection Bay, Alaska. *Division of Geological & Geophysical Surveys, Report of Investigations*(State of Alaska Department of Natural Resources).
682. Suito, H., & **Freymueller, J.T.** (2008). A viscoelastic and afterslip postseismic deformation model for the 1964 Alaska earthquake. *Journal of Geophysical Research*. doi: 10.1029/2008JB005954
683. Sukhanova, I., **Whitledge, T.**, Flint, M., & **Stockwell, D.** (2008). Effect of nutrient amendments on the summer phytoplankton dynamics on the Bering Sea shelf under experimental conditions. *Oceanology*, 48(6), 798-812. doi: 10.1134/S0001437008060052
684. **Suleimani, E.N., Nicolisky, D.J.**, Haeussler, P.J., & **Hansen, R.A.** (2008). Integrated effects of tectonic and landslide-generated tsunami runup at Seward, Alaska during the MW9.2 1964 earthquake. *Pure and Applied Geophysics*.
685. Takahashi, A., Matsumoto, K., Hunt, G. L., Shultz, M. T., **Kitaysky, A. S.**, Sato, K., . . . Watanuki, Y. (2008). Thick-billed murres use different diving behaviors in mixed and stratified waters. *Deep-Sea Research Part Ii-Topical Studies in Oceanography*, 55(16-17), 1837-1845. doi: 10.1016/j.dsr2.2008.04.005
686. Takahashi, Akinori, Matsumoto, Kei, L., Hunt Jr. George, Shultz, Michael T., **Kitaysky, Alexander S.**, Sato, Katsufumi, . . . Watanuki, Yutaka. (2008). Thick-billed murres use different diving behaviors in mixed and stratified waters. *Deep-Sea Research II*, 55, 1837-1845.
687. Tanaka, T, **Huang, S.** & Akagawa, S. (2008). Arctic Field Test Offers Method

## UAF Faculty Peer-Reviewed Publications 2008

- for Estimating Pipeline Heave. *Oil and Gas Journal*, 106(44), 50-52, 54, 56-57.
688. Tanwar, K., **Petitto, S. C.**, Ghose, S. K., Eng, P., & **Trainor, T. P.** (2008). GEOC 34-Structural investigation of Fe(II) adsorption on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (1-102) and (0001) using crystal truncation rod diffraction. *Abstracts of Papers of the American Chemical Society*, 235, 34-GEOC.
689. Tanwar, K. S., **Petitto, S. C.**, Ghose, S. K., Eng, P. J., & **Trainor, T. P.** (2008). Structural investigation of Fe(II) adsorption on hematite (0001) and (1(1)over-bar02). *Geochimica Et Cosmochimica Acta*, 72(12), A932-A932.
690. Tanwar, K. S., **Petitto, S. C.**, Ghose, S. K., Eng, P. J., & **Trainor, T. P.** (2008). Structural study of Fe(II) adsorption on hematite(1(1)over-bar02). *Geochimica Et Cosmochimica Acta*, 72(14), 3311-3325. doi: 10.1016/j.gca.2008.04.020
691. **Tanwar, K.S.**; Petitto, S.C.; Ghose, S.K.; Eng, P.J.; **Trainor, T.P.** (2008). Structural Study of Fe(II) Adsorption on Hematite (1-102). *Geochimica Et Cosmochimica Acta*, 72(14), 15. doi: 10.1016/j.gca.2008.04.020
692. **Taylor, B.E.**, Croll, A.E., Drucker, M.L., & Wilson, A. (2008). Developmental exposure to ethanol or nicotine inhibits the hypercapnic ventilatory response in tadpoles. *Respiratory Physiology & Neurobiology*, 160(1), 83-90.
693. **Taylor, B. E.**, Croll, A. E., Drucker, M. L., & Wilson, A. L. (2008). Developmental exposure to ethanol or nicotine inhibits the hypercapnic ventilatory response in tadpoles. *Respiratory Physiology & Neurobiology*, 160(1), 83-90. doi: 10.1016/j.resp.2007.08.011
694. **Taylor, D. Lee**, Booth, Michael G., McFarland, Jack W., Herriott, Ian C., Lennon, Niall J., Nusbaum, Chad, & Marr, Thomas G. (2008). Increasing ecological inference from high throughput. *Molecular Ecology Resources*, 8, 742-752.
695. **Taylor, D. L.**, Booth, M. G., McFarland, J. W., Herriott, I. C., Lennon, N. J., Nusbaum, C., & Marr, T. G. (2008). Increasing ecological inference from high throughput sequencing of fungi in the environment through a tagging approach. *Molecular Ecology Resources*, 8(4), 742-752. doi: 10.1111/j.1755-0998.2008.02094.x
696. **Taylor, D. L.**, & McCormick, M. K. (2008). Internal transcribed spacer primers and sequences for improved characterization of basidiomycetous orchid mycorrhizas. *New Phytologist*, 177(4), 1020-1033. doi: 10.1111/j.1469-8137.2007.02320.x
697. **Taylor, K.** (2008). Receiving Rhetoric: Mayor Ray Nagin's Persuasion Regarding Evacuation of New Orleans. *Sizing Up Rhetoric.* e. D. Zarefsky. Long Grove IL, Waveland Press.
698. **Taylor, K.** K. B., D. Carlone, C. Medved, M. Aarkhus, & E. Gabor (2008). "Meaning/ful Work and Organizational Communication: Questioning Boundaries, Positionalities, and Engagements." *Management*

## UAF Faculty Peer-Reviewed Publications 2008

Communication Quarterly **22-1**(August): 152-161.

699. Terry, P. W., Greenwald, M., Leboeuf, J. N., McKee, G. R., Mikkelsen, D. R., Nevins, W. M., **Newman, D. E.** . . Force. (2008). Validation in fusion research: Towards guidelines and best practices. *Physics of Plasmas*, *15*(6). doi: 062510.1063/1.2928909
700. Thelen, W.A., **West, M.**, Malone, S.D., & Senyukov, S. (2008). The Role of Multiplets in the Seismicity of the October 2007 Eruption at Bezymianny Volcano, Russia. *EOS Trans, AGU*(89), 53.
701. Thomas, D.N., Fogg, G.E., Convey, P., Fritsen, C.H., Bili, J.M., **Gradinger, R.**, . . . Walton, D.W.H. . (2008). *The biology of polar ocean*: Oxford University Press.
702. Thomson, A.W., **Lopez, J. A.**, Hadiaty, R.K., & Page, L.M. (2008). A new species of Nanobagrus (Teleostei: Bagridae) from southern Sumatra. *Proceedings of the Academy of Natural Sciences of Philadelphia*, *157*(1), 67-72. doi: doi:10.1635/0097-3157(2008)157[67:ANSONT]2.0.CO;2
703. Thomton, J.D., **Mellish, J.E.**, Hennen, D.R., & Horning, M. (2008). Juvenile Steller sea lion dive behavior following temporary captivity. [Article]. *Endangered Species Research*, *4*(1-2), 195-203. doi: 10.3354/esr00062
704. Thost, D., & **Truffer, M.** (2008). Glacier Recession on Heard Island, Southern Indian Ocean. *Arctic Ant. Alpine Res.*, *40*(1), 199-214. doi: 10.1657/1523-0430(06-084)[THOST]2.0.CO:2
705. Thost, D. E., & **Truffer, M.** (2008). Glacier recession on Heard Island, southern Indian Ocean. *Arctic Antarctic and Alpine Research*, *40*(1), 199-214. doi: 10.1657/1523-0430(06-084)[thost]2.0.co;2
706. Tomisch, C.S., Fowell, S.J., & **McCarthy, P.J.** (2008). *Latest Cretaceous Flora in a ancient fluvial environment: Preliminary results from a paleoenvironmental study of the lower Cantwell Formation at Sable Mountain, Denali National Park, Alaska.*
707. Topp, C. M., & **Winker, K.** (2008). Genetic patterns of differentiation among five landbird species from the Queen Charlotte Islands, British Columbia. *Auk*, *125*(2), 461-472. doi: 10.1525/auk.2008.06254
708. Topp, Carrie M., & **Winker, Kevin.** (2008). Genetic Patterns of Differentiation among Five Landbird SpSpecies from the Queen Charlotte Islands, British Columbia. *The Auk*, *125*(2), 461-472.
709. **Trainor, S.F.** (2008). Finding Common Ground: Moral Values and Cultural Identity in Early Conflict over the Grand Staircase-Escalant National Monument. *Journal Land, Resources, & Environmental Law*, *28*(2), 331-359.
710. **Trainor, S.F.** (2008). Finding Common Ground: Moral Values and Cultural Identity in Early Conflict Over the Grand Staircase-Escalante National Monument. *Journal of Land, Resources, and Environmental Law*, *28*(2), 331-359.

## UAF Faculty Peer-Reviewed Publications 2008

711. **Trainor, S.F.**, Chapin III, F.S., McGuire, David, Calef, M., **Fresco, N.**, Kwart, M., . . . Natcher, D.D. (2008). Vulnerability and Adaptation to Climate-Related Fire Impacts in Rural and Urban Interior Alaska. *American Association for the Advancement of Science Arctic Science, Arctic Science Division*.
712. Tranchida Lombardo, V., Hopkins, S.E., Selosse, M.-A., Cozzolino, S., & **Taylor, L.** (2008). Isolation and characterization of new polymorphic microsatellite loci in the mixotrophic orchid *Limodorum abortivum* L. Swartz (Orchidaceae). *Molecular Ecology Resources*, 8, 1117-1120.
713. Trillmich, F., Rea, L., **Castellini, M.**, & Wolf, J.B.W. (2008). Age-related changes in hematocrit in the Galapagos sea lion (*Zalophus wollebaeki*) and the Weddell seal (*Leptonychotes weddellii*). *Marine Mammal Science*, 24(2), 303-314. doi: DOI 10.1111/j.1748-7692.2007-00177.x
714. Trochim, E., **Prakash, A.**, & Kane, D. (2008). Delineating Water Tracks in headwater Drainage Basins of the Alaskan Arctic. *EOS Trans*, 89(53).
715. Trunilina, V.A., **Layer, Paul**, Parfenov, L.M., Zaitsev, A.I., & Orlov, Y.S. (2008). *The Tommot pluton: a Middle Paleozoic rift-related alkaline gabbro and syenite complex, Yakutia, northeast Russia*.
716. Turetsky, M. R., Treat, C. C., Waldrop, M. P., Waddington, J. M., Harden, J. W., & **McGuire, A. D.** (2008). Short-term response of methane fluxes and methanogen activity to water table and soil warming manipulations in an Alaskan peatland. *Journal of Geophysical Research-Biogeosciences*, 113. doi: G00a1010.1029/2007jg000496
717. **Tuttle, S.** (2008). "Phonetics and word definition in Ahtna Ahtabaskan." *Linguistics* 46(2): 439-470.
718. Uchiyama, T., **Finney, B.P.**, & **Adkison, M.D.** (2008). Effects of marine-derived nutrients on population dynamics of sockeye salmon (*Oncorhynchus nerka*). *Canadian Journal of Fisheries and Aquatic Sciences*, 65(8), 1635-1648. doi: Doi 10.1139/F08-085
719. Uhlik, O., Jecna, K., Mackova, M., **Leigh, M. B.**, Demnerova, K., & Macek, T. (2008). Stable isotope probing as a tool for the detection of active microorganisms in xenobiotics degradation. *Chemicke Listy*, 102(7), 474-479.
720. Urschel, M. R., & **O'Brien, K. M.** (2008). High mitochondrial densities in the hearts of Antarctic icefishes are maintained by an increase in mitochondrial size rather than mitochondrial biogenesis. *Journal of Experimental Biology*, 211(16), 2638-2646. doi: 10.1242/jeb.018598
721. Van Stempvoort, D, Biggar, K, **Filler, DM**, **Johnson, RA**, Snape, I, Mumford, K, & **W, Schnable**. (2008). Emerging Technologies in: Bioremediation of Petroleum Hydrocarbons in Cold Climates. In D.; Snape Filler, I.; Barnes, D. (Ed.). New York City: Cambridge University Press.
722. **Verbyla, D. L.** (2008). The greening and browning of Alaska based on 1982-2003 satellite data. . *Global Ecology and Biogeography*, 17, 547-555.

## UAF Faculty Peer-Reviewed Publications 2008

723. **Verbyla, D. L.**, Kasischke, E. S., & Hoy, E. E. (2008). Seasonal and topographic effects on estimating fire severity from Landsat TM/ETM+ data. *International Journal of Wildland Fire*, 17, 527-534.
724. **Verbyla, D.L.**, & Lord, R. ( 2008. ). Estimating post-fire organic soil depth in the Alaskan boreal forest using the Normalized Burn Ratio. *International Journal of Remote Sensing*, 29(13), 3845-3853.
725. Vincent, A.C.; **Mueller, D.R.**; Vincent, W.F. (2008). Simulated heat storage in a perennially ice-covered high Arctic lake: Sensitivity to climate change. *Journal of Geophysical Research*, 113, 11. doi: 10.1029/2007jc004360
726. Vogel, J. G., Bond-Lamberty, B. P., Schuur, E. A. G., Gower, S. T., Mack, M. C., O'Connell, K. E. B., . . . **Ruess, R. W.** (2008). Carbon allocation in boreal black spruce forests across regions varying in soil temperature and precipitation. *Global Change Biology*, 14(7), 1503-1516. doi: 10.1111/j.1365-2486.2008.01600.x
727. Vonlanthen, C. M., **Walker, D. A.**, Reynolds, M. K., Kade, A., Kuss, P., Daniels, F. J. A., & Matveyeva, N. V. (2008). Patterned-ground plant communities along a bioclimate gradient in the High Arctic, Canada. *Phytocoenologia*, 38(1-2), 23-63. doi: 10.1127/0340-269x/2008/0039-0023
728. **Wagner, D.**, DeFoliart, L., **Doak, P.**, & Schneiderheinze, J. (2008). Impact of epidermal leaf mining by the aspen leaf miner (*Phyllocnistis populiella*) on the growth, physiology, and leaf longevity of quaking aspen. *Oecologia*, 157(2), 259-267. doi: 10.1007/s00442-008-1067-1
729. Waitt, R.B., & **Beget, James E.** (2008). Volcanic Processes and Geology of Augustine Volcano, Alaska. *U.S. Geological Survey Professional Paper*, 16xx.
730. Walker, D.A., Epstein, H., Krantz, V.E., Romanovsky, V.E., **Ping, C.L.**, Michaelson, G.J., . . . Daniels, F.J.A. (2008). Arctic Patterned-Ground Ecosystems: a Synthesis of Studies Along a North American Arctic Transect. *J. Geophys. Res.* doi: 10.1029/2007JG000504
731. **Walker, D. A.**, Epstein, H. E., **Romanovsky, V. E.**, Ping, C. L., Michaelson, G. J., Daanen, R. P., . . . Daniels, F. J. A. (2008). Arctic patterned-ground ecosystems: A synthesis of field studies and models along a North American Arctic Transect. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s0110.1029/2007jg000504
732. **Walker, D.A.**, Epstein, H.E., & Welker, J.M. (2008). Introduction to special section on biocomplexity of arctic tundra. *Journal of Geophysical Research*, 113, 1-5.
733. **Walker, D. A.**, Epstein, H. E., & Welker, J. M. (2008). Introduction to special section on Biocomplexity of Arctic Tundra Ecosystems. *Journal of Geophysical Research-Biogeosciences*, 113(G3). doi: G03s0010.1029/2008jg000740
734. **Wall, Sherry**, Walton, S.M., & **Wichmann, Hank.** (2008). Students in Free

## UAF Faculty Peer-Reviewed Publications 2008

- Enterprise Are Changing the World. [Refereed Journal Article]. *New Accountant*, 724(4), 20-22.
735. Walsh, John, Chapman, W.L., **Romanovsky, V.E.**, Christensen, J.H., & Stendel, M. (2008). Global Climate Model Performance over Alaska and Greenland. *Journal of Climate*. doi: 10.1175/2008JCLI2163.1
736. Walsh, J. E., Chapman, W. L., **Romanovsky, V.**, Christensen, J. H., & Stendel, M. (2008). Global Climate Model Performance over Alaska and Greenland. *Journal of Climate*, 21(23), 6156-6174. doi: 10.1175/2008jcli2163.1
737. Walter, K., Engram, M., Duguay, C.R., **Jeffries, M.O.**, & Chapin III, F.S. (2008). The potential use of synthetic aperture radar (SAR) for estimating methane ebullition from arctic lakes. *Journal of the American Water Resources Association*, 44(2), 305-315.
738. **Walter, K. M.**, Chanton, J. P., **Chapin, F. S.**, Schuur, E. A. G., & Zimov, S. A. (2008). Methane production and bubble emissions from arctic lakes: Isotopic implications for source pathways and ages. *Journal of Geophysical Research-Biogeosciences*, 113. doi: G00a0810.1029/2007jg000569
739. Walter, K.M., Chanton, J.P., **Chapin III, F.S.**, Schuur, E.A.G., & Zimov, S.A. (2008). Methane production and bubble emissions from arctic lakes: Isotopic implications for source pathways and ages. *Journal of Geophysical Research*, 113.
740. **Walter, K. M.**, Engram, M., Duguay, C. R., Jeffries, M. O., & Chapin, F. (2008). The Potential Use of Synthetic Aperture Radar for Estimating Methane Ebullition From Arctic Lakes1. *JAWRA Journal of the American Water Resources Association*, 44(2), 305-315. doi: 10.1111/j.1752-1688.2007.00163.x
741. Walter, K. M., Engram, M., Duguay, C. R., Jeffries, M. O., & **Chapin, F. S.** (2008). The potential use of synthetic aperture radar for estimating methane ebullition from Arctic lake. *Journal of the American Water Resources Association*, 44(2), 305-315. doi: 10.1111/j.1752-1688.2007.00163.x
742. Wang, D.L., **Atkinson, S.**, Hoover-Miller, A., Shelver, W.L., & Li, Q. X. (2008). Simultaneous use of gas chromatography/ion trap mass spectrometry - electron capture detection to improve the analysis of bromodiphenyl ethers in biological and environmental samples. *Rapid Communications in Mass Spectrometry*, 22(5), 647-656. doi: Doi 10.1002/Rcm.3410
743. Wang, R., Soll, L., Dugan, V., **Runstadler, J.A.**, Happ, G.M., Slemons, R.D., & Taubenberger, J.K. (2008). Examining the hemagglutinin subtype diversity among wild duck-origin influenza A viruses using ethanol-fixed cloacal swabs and a novel RT-PCR method. *Virology*, 375, 182-189.
744. Wang, R. X., Soll, L., Dugan, V., **Runstadler, J.**, Happ, G., Slemons, R. D., & Taubenberger, J. K. (2008). Examining the hemagglutinin subtype diversity

## UAF Faculty Peer-Reviewed Publications 2008

- among wild duck-origin influenza A viruses using ethanol-fixed cloacal swabs and a novel RT-PCR method. *Virology*, 375(1), 182-189. doi: 10.1016/j.virol.2008.01.041
745. **Wang, Y.**, Francis, D. R., **O'Brien, D. M.**, & Wooller, M. J. (2008). A protocol for preparing subfossil chironomid head capsules (Diptera : Chironomidae) for stable isotope analysis in paleoclimate reconstruction and considerations of contamination sources. *Journal of Paleolimnology*, 40(3), 771-781. doi: 10.1007/s10933-008-9197-3
746. Waychunas, G., Eng, P., Ghose, S. K., Shen, Y. R., Spagnoli, D., **Trainor, T. P.**, & Zhang, L. N. (2008). COLL 77-Ordering of water near mineral interfaces: Recent observations, simulations, and consequences. *Abstracts of Papers of the American Chemical Society*, 235, 77-COLL.
747. **Webley, P.W.**, Atkinson, David, **Collins, Richard**, **Dean, Ken**, **Fochesatto, Javier**, **Sassen, Ken**, . . . Flynn, C.J. (2008). Validation of a Volcanic Ash Dispersion Model during Late January/Early February 2006 Eruption of Mount Augustine Volcano. *Bull. of the Amer. Meteor. Soc.*, 89(11), 1647-1658. doi: 10.1175/2008BAMS2579.1
748. Webley, P. W., **Atkinson, D.**, **Collins, R. L.**, Dean, K., Fochesatto, J., **Sassen, K.**, . . . Mizutani, K. (2008). Predicting and Validating the Tracking of a Volcanic Ash Cloud during the 2006 Eruption of Mt. Augustine Volcano. *Bulletin of the American Meteorological Society*, 89(11), 1647-+. doi: 10.1175/2008bams2579.1
749. **Webley, P.W.**, **Collins, Richard**, **Dean, Ken**, **Fochesatto, Javier**, **Sassen, Ken**, **Cahill, C.F.**, . . . Mazutani, K. (2008). Predicting and Validating the tracking of a volcanic ash cloud during the 2006 eruption of Mt. Augustine Volcano. *Bull. of the Amer. Meteor. Soc.*, 1647-1658.
750. Webley, P.W., Dean, K. , **Bailey J.E.**, Dehn, J., & Peterson, R. (2008). Automated forecasting of volcanic ash dispersion utilizing Virtual Globes. *Natural Hazards*, 51(2), 345-361. doi: 10.1007/s11069-008-9246-2
751. **Webley, P.W.**, **Dean, Ken**, **Bailey, J.E.**, **Dehn, J.**, & Peterson, R. (2008). Volcanic Ash Modeling for North Pacific Volcanoes Automated Operational Monitoring and Virtual Globes. *Natural Hazards: SI Aviation Hazards from Volcanoes*. doi: 10.107/s11069-008-9246-2
752. **Webley, P.W.**, **Dean, Ken**, **Collins, Richard**, **Fochesatto, Javier**, **Sassen, Ken**, Atkinson, David, . . . Prata, A. (2008). Validation of a Volcanic Ash Dispersion Model During Late January/Early February 2006 Eruption of Mount Augustine Volcano. *Bulletin of American Meteorological Society*. doi: 10.1175/2008BAMS2579.1
753. **Webley, P.W.**, Wooster, M.J., Strauch, W., Saballos, J.A., Dill, K., Stephenson, P., . . . Matias, O. (2008). Experiences from Real-time Satellite-Based Volcano Monitoring in Central America: Case Studies at Fuego, Guatemala. *International Journal of Remote Sensing*, 29(22), 6618-6644.



## UAF Faculty Peer-Reviewed Publications 2008

754. Wen, J., Berggren, S. T., Lee, C. H., **Ickert-Bond, S.**, Yi, T. S., Yoo, K. O., . . . . Potter, D. (2008). Phylogenetic inferences in *Prunus* (Rosaceae) using chloroplast *ndhF* and nuclear ribosomal ITS sequences. *Journal of Systematics and Evolution*, 46(3), 322-332. doi: 10.3724/sp.j.1002.2008.08050
755. **Whalen, M.T.**, & Beatty, T.W. (2008). Kamishak Formation, Puale Bay,. *Reifenstuhl, Bristol Bay and Alaska Peninsula Petroleum System Field Studies, 2004-2007*(Alaska Division of Geological Surveys Report of Investigation 2008-1), 105-130.
756. **Wheat, C.G.**, & Fisher, A.T. (2008). Massive, low-temperature hydrothermal flow from a basaltic outcrop on 23 Ma seafloor of the Cocos Plate: Chemical constraints and implications. [Article]. *Geochemistry Geophysics Geosystems*, 9, 16. doi: Gc00213610.1029/2008gc002136
757. **Wheat, C.G.**, Fryer, P., Fisher, A.T., Hulme, S., Jannasch, H., Mottl, M.J., & Becker, K. (2008). Borehole observations of fluid flow from South Chamorro Seamount, an active serpentinite mud volcano in the Mariana forearc. *Earth and Planetary Science Letters*, 267(3-4), 401-409. doi: DOI 10.1016/j.epsl.2007.11.057
758. **Wheat, C.G.**, & McManus, J. (2008). Germanium in mid-ocean ridge flank hydrothermal fluids. *Geochemistry Geophysics Geosystems*, 9, -. doi: Artn Q03025 Doi 10.1029/2007gc001892
759. White, D., Autier, V., Yoshikawa, K., **Jones, J.**, & Seelen, S. (2008). Using DOC to better understand local hydrology in a subarctic watershed. *Cold Regions Science and Technology*, 51(1), 68-75. doi: 10.1016/j.coldregions.2007.08.005
760. **White, D.**, Clilverd, H., **Tidwell, A.**, Little, L., Lilly, M., Chambers, M., & Reichardt, D. (2008). A Tool for Modeling the Winter Oxygen Depletion Rate in Arctic Lakes1. *JAWRA Journal of the American Water Resources Association*, 44(2), 293-304. doi: 10.1111/j.1752-1688.2007.00162.x
761. **White, D.**, Prokein, P., Chambers, M., Lilly, M., & **Toniolo, H.** (2008). Use of Synthetic Aperture Radar for Selecting Alaskan Lakes for Winter Water Use1. *JAWRA Journal of the American Water Resources Association*, 44(2), 276-284. doi: 10.1111/j.1752-1688.2007.00160.x
762. Whiteside, J. H., Olsen, P. E., Kent, D. V., **Fowell, S. J.**, & Et-Touhami, M. (2008). Synchrony between the Central Atlantic magmatic province and the Triassic-Jurassic mass-extinction event? Reply to Marzoli et al. *Palaeogeography Palaeoclimatology Palaeoecology*, 262(3-4), 194-198. doi: 10.1016/j.palaeo.2008.02.010
763. **Wichmann, Hank, Abramowicz, Ken, & Sparks, H. Charles.** (2008). SBA Helps Small Businesses Think Big. *Strategic Finance*, 45-49.
764. Wiklund, E., **Finstad, G.L.**, Johansson, L., Aguiar, G., & Bechtel, P. J. (2008). Carcass composition and yield of Alaskan reindeer steers and effects of

## UAF Faculty Peer-Reviewed Publications 2008

- electrical stimulation applied during field slaughter on meat quality. . *Meat Science*, 78, 185-193.
765. Wiklund, E., **Finstad, G.L.**, Workers, S., & Bechtel, P. J. (2008). Effects of early castration on carcass composition, yield and quality characteristics of meat from young reindeer (*Rangifer tarandus tarandus*) bulls and steers. *Rangifer*, 28, 1-8.
766. Williams, C. T., **Kitaysky, A. S.**, & Buck, C. L. (2008). Food restricted Tufted Puffin (*Fratercula cirrhata*) nestlings increase vocal activity during handling without modulating total or free corticosterone. *Journal of Ornithology*, 149(2), 277-283. doi: 10.1007/s10336-008-0274-1
767. Williams, C. T., **Kitaysky, A. S.**, Kettle, A. B., & Buck, C. L. (2008). Corticosterone levels of tufted puffins vary with breeding stage, body condition index, and reproductive performance. *General and Comparative Endocrinology*, 158(1), 29-35. doi: 10.1016/j.ygcen.2008.04.018
768. Williams, J. K., Wyatt, G. E., **Rivkin, I. D.**, Ramamurthi, H. C., Li, X., & Liu, H (2008). "Risk reduction for HIV-positive African American and Latino men with histories of childhood sexual abuse." *Archives of Sexual Behavior* 37(5): 763-772.
769. **Wilson, C.** & **Olson, J.** (2008). Auroral Infrasound and Local Geomagnetic Disturbances at I53US. *Inframatics*, 22.
770. Wilson, R. E., Eaton, M., & **McCracken, K. G.** (2008). Color divergence among Cinnamon Teal (*Anas cyanoptera*) subspecies from north America and south America. *Ornitologia Neotropical*, 19(2), 307-314.
771. Wilson, Robert E., Eaton, Muir, & **McCracken, Kevin G.** (2008). Short Communications: Color divergence among cinnamon teal (*Anas cyanoptera*) subspecies from North American and South America. *Ornitologia Neotropical*, 19, 307-314.
772. Wilson, R. E., & **McCracken, K. G.** (2008). Specimen shrinkage in Cinnamon Teal. *Wilson Journal of Ornithology*, 120(2), 390-392.
773. **Wilson, T.** (2008). "Starmakers: dictators, songwriters, and the negotiation of censorship in the Argentine Dirty War." *A Contracorriente* 6(1): 50-75.