

Publication list

(Name underlined when student is the first author)

BOOKS / THESIS

- 7 Stracher, G.B., **Prakash, A.**, and Rein, G., (Eds.), 2015, *Coal and peat fires: A global perspective, Volume 4, Peat – Geology, combustion, and case studies*, Elsevier, 174 p., Print Book ISBN 978-0444595102.
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- 5 Stracher G.B, **Prakash, A.**, and Sokol E.V. (Eds.), 2013, *Coal and peat fires: A global perspective, Volume 2, Photographs and Multimedia Tour*, Elsevier, 564 p., ISBN 978-0444594129.
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- 3 Janssen, L.L.F., Huurneman, G.C., Bakker, W.H., Janssen, L.L.F., Reeves, C.V., Gorte, B.G.H., Pohl, C., Weir, M.J.C., Horn, J.A., **Prakash, A.**, and Woldai, T., 2004, *Principles of remote sensing: An introductory textbook*: translated into Korean. ITC Educational Textbook Series, 180 p. ISBN 89-95325631.
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- 9 **Pande, H.**, Garg, R.D., Sen, A.K., and **Prakash, A.**, 2014, Chapter 9 - Impact of mining activities on the landuse and landcover of the Jharia Coalfield, India. In *Coal and peat fires: A global perspective, Volume 3, Case studies*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., pp. 263-279, Print Book ISBN 978-0444595096, eBook ISBN 978-0444595119. [doi: 10.1016/b978-0-444-59509-6.00009-0](https://doi.org/10.1016/b978-0-444-59509-6.00009-0).
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*Each product is approved after a rigorous review by a 5-6 member panel consisting of scientists and educators.

FULL LENGTH PAPERS IN PROCEEDINGS / OTHER JOURNALS

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- 186 Broderson, D., Veazey, A., Raymond, V., Kowalski, K., **Prakash, A.**, and Signor, B., 2016, Building University Capacity to Visualize Solutions to Complex Problems in the Arctic, *AGU Fall Meeting*, December 12-16, San Francisco, CA, Abstract ID PA51A-2249 (poster).
- 185 Heim, B., Beamish, A.L., Walker, D.A., Epstein, H.E., Sachs, T., Chabrillat, S., Buchhorn, M., and **Prakash, A.**, 2016, Discerning spatial and temporal LAI and clear-sky FAPAR variability during summer at the Toolik Lake vegetation monitoring grid (North Slope, Alaska), *AGU Fall Meeting*, December 12-16, San Francisco, CA, Abstract ID GC43B-1166 (poster).
- 184 Waigl, C.F., **Prakash, A.**, Stuefer, M., and Ichoku, C., 2016, Using NPP-Suomi VIIRS I-band data to delineate high- and low-intensity burn areas for forest fires in interior Alaska, derived fire detection products: performance and capabilities for Interior Alaska, *AGU Fall Meeting*, December 12-16, San Francisco, CA, Abstract ID GC42C-02 (presentation).
- 183 Ozbay, G., Sriharan, S., Fan, C., **Prakash, A.**, and San Juan, F., 2016, Application of Geographic Information System (GIS) in Student Experiential Learning on Climate Change and Sustainability, *AGU Fall Meeting*, December 12-16, San Francisco, CA, Abstract ID GC43B-1166 (poster).
- 182 Whitley, M.A., Panda, S.K., **Prakash, A.**, and Brinkman, T.J., 2016, Impacts of Colville River dynamics on river navigability near Nuiqsut, Alaska: 1955-present, *AGU Fall Meeting*, December 12-16, San Francisco, CA, Abstract ID GC31H-1189 (poster).
- 181 **Prakash, A.**, Cristóbal, J., Buchhorn, M., Graham, P., and Stuefer, M., 2016, HyLab: a hyperspectral laboratory for surface water and vegetation characterization in Alaska's Arctic and boreal regions, *14th International Circumpolar Remote Sensing Symposium*, September 12-16, Holmer, Alaska (presentation).
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- 178 Kokaly, R.F., Graham, G.E., Hoefen, T.M., Kelley, K.D., Johnson, M.R., Hubbard, B.E., Goldfarb, R., Buchhorn, M., and **Prakash, A.**, 2016, Deriving mineral information at a copper porphyry deposit using laboratory, field, and airborne imaging spectrometer data collected for the Orange Hill Deposit, Alaska, USA, *35th International Geological Congress*, Aug 27 - Sep 4, Cape Town, South Africa (presentation).
- 177 Kokaly, R.F., Hoefen, T.M., Graham, G.E., Kelley, K.D., Johnson, M.R., Hubbard, B.E., Goldfarb, R., Buchhorn, M., and **Prakash, A.**, 2016, Mineral information at micron to kilometer scales: Laboratory, field, and remote sensing imaging spectrometer data from the Orange Hill porphyry copper deposit, Alaska, USA, *IEEE International Geoscience and Remote Sensing Symposium*, July 10-15, Beijing China (presentation).
- 176 Buchhorn, M., **Prakash, A.**, Hampton, D., Cristóbal, J., Waigl, C., Stuefer, M., and Graham, P., 2016, HyLab: Alaska's In-State Capability for Airborne Imaging Spectroscopy – Applications for Permafrost, *Eleventh International Conference on Permafrost*, June 20-24, Potsdam, Germany (poster).
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- 174 **Prakash, A.**, Cristóbal, J., Buchhorn, M., Graham, P., Kokaly, R.F., Werdon, M., Stuefer, M., and Hampton, D., 2016, Hyperspectral imaging for resource exploration and mapping, *Alaska Geospatial Society Technical Conference*, April 22, Fairbanks, Alaska (invited presentation).
- 173 Cristóbal, J., Buchhorn, M., Kokaly, R.F., **Prakash, A.**, Werdon, M., and Graham, P., 2016, Alaska's new field-based and airborne hyperspectral imaging facility supporting mineral exploration and mapping, *25th Biennial Conference on Alaska Mining*, April 4-10, Fairbanks, Alaska (extended abstract and presentation).
- 172 **Prakash, A.**, Daanen, R., and Holdmann, G., 2016, Innovative remote sensing and modeling techniques for developing a low-temperature geothermal resource, *25th Biennial Conference on Alaska Mining*, April 4-10, Fairbanks, Alaska (extended abstract and invited presentation).
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- 169 Womble, J.N., McNabb, R.W., **Prakash, A.**, Gens, R., Hoef, J.V., Gende, S.M., 2015, Object-based image classification of glacial ice as habitat for Harbor seals in a tidewater glacial fjord in Alaska, *21st Biennial Conference of the Society of Marine Mammalogy*,

- December 13-18, San Francisco, CA (presentation).
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- 167 **Prakash, A.**, Buchhorn, M., Cristóbal, J., Kokaly, R.F., Graham, P., Waigl, C., Hampton, D., Werdon, M., Guldager, N., Bertram, M., and Stuefer, M., 2015, Field-based and airborne hyperspectral imaging for applied research in the State of Alaska, *AGU Fall Meeting*, December 14-18, San Francisco, CA., Abstract ID GC23K-1233 (poster).
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- 164 Clawson, C., Falke, J., Rose, J., Martin, A., Cristóbal, J., and **Prakash, A.**, 2015, Chandalar River chum salmon (*Oncorhynchus keta*) riverscape-scale salmon habitat assessment and monitoring, *AFS Alaska Chapter Meeting*, Nov 2-6, Homer, Alaska (poster).
- 163 Buchhorn, M., Kokaly, R.F., **Prakash, A.**, Werdon, M., Cristóbal, J., and Graham, P., 2015, Field-based and airborne hyperspectral imaging for mineral exploration in the State of Alaska, *Alaska Miners Association Fall Convention*, Nov. 1-7, Anchorage, Alaska (poster).
- 162 Womble, J.N., McNabb, R.W., **Prakash, A.**, Gens, R., Hoef, J.V., Gende, S.M., 2015, Assessing the Availability of Glacial Ice for Harbor Seals in Tidewater Glacial Fjord. *Ecosystem Studies of Sub-Arctic Seas (ESSAS) 10th Annual Science Meeting*, June 15-17, Seattle, USA (presentation).
- 161 Buchhorn, M., **Prakash, A.**, Hampton, D., Cristóbal, J., Waigl, C., Stuefer, M., Kokaly, R.F., and Graham, P., 2015, HyLab: Alaska's In-State Capability for Airborne Imaging Spectroscopy, *36th International Symposium on Remote Sensing of Environment (ISRSE)*, May 11-15, Berlin, Germany (poster).
- 160 Graham, P., Cristóbal, J., **Prakash, A.**, 2015, Estimation of surface energy fluxes in Arctic ecosystems: integrating multiplatform remote sensing and field data. *AWRA-AK Annual Conference and Workshops: Water Resource Remote Sensing Applications in Alaska*, May 13-15, Fairbanks, AK (poster).
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- 151 McNabb, R. W., Womble, J.N., **Prakash, A.**, Gens, R., and J. Ver Hoef, 2014, Object-Based Image Classification of Floating Ice Used as Habitat for Harbor Seals in a Tidewater Glacier Fjord in Alaska. *AGU Fall Meeting*, December 15-19, San Francisco, CA. Abstract ID 25191 (poster).
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- 149 Waigl, C., **Prakash, A.**, and Gens R., 2014, The Arctic seen from space: enhancing STEM education with interactive learning. *Arctic Science Conference*, September 27–28, Fairbanks, Alaska (presentation).
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- 146 Ozbay, G., Sriharan, S., Fan, C., **Prakash, A.**, and San Juan, F., 2014, Application of Geographic Information System (GIS) in Environmental Science and Sustainable Agriculture Education. *6th International Conference on Education and New Learning Technologies (EDULEARN14)*, July 7-9, Barcelona, Spain (presentation).
- 145 **Prakash, A.**, and Cristóbal, J., 2014, The potential for hyperspectral imaging for vegetation (forestry) studies in southeast Alaska. *UAF Remote Sensing Symposium*, April 18, Fairbanks, Alaska (presentation).
- 144 Meggers, S., Seitz, A., **Prakash, A.**, and Tanner, T, 2014, Factors influencing Chinook salmon spawning distribution in the Togiak River, Alaska. *Alaska Cooperative Fish and Wildlife Research Unit Annual Research Review Meeting*, March 26, Fairbanks, AK (presentation).
- 143 **Prakash, A.**, Cristóbal, J., Hatfield, M., Cunningham, K., Sait, E., and Cook, M., 2014, New Sensors and Unmanned Aerial Systems for Mapping and Exploration. Hyperspectral and Unmanned Aerial System Workshop at the *Alaska Surveying and Mapping Conference*, Session Convenors, March 24-28, Fairbanks, AK (presentation).
- 142 **Prakash, A.**, Haselwimmer, C.E, Gens, R., Womble, J.N., and Ver Hoef, J., 2013, Quantifying the availability of tidewater glacial ice as a habitat for Harbor Seals in John's Hopkins Inlet, Alaska using Object-Based Image Analysis of airborne visible imagery, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 141 **Prakash, A.**, Sriharan, S., Ozbay, G., SanJuan, F., Fan, C., and David, V., 2013, Enhancing GIS Instruction at 1890 Institutions and HBCUs through Collaboration with the University of Alaska Fairbanks, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 140 Cristóbal J., **Prakash, A.**, Starkenburg, D.P., Fochesatto, G.J., Anderson, M., Kustas, W., Alfieri, J.G., Gens, R., and Kane, D.L., 2013, Implementation of a two-source energy balance model in a sub-Arctic deciduous boreal forest, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 139 Gens, R., **Prakash, A.**, Balazs, M.S., Chittambakkam, A., Starkenburg, D.P., Waigl, C., Jones, E., Ozbay, G., Ferguson, A., Foster, K., Kluge, A., Sriharan, S., Cook, S., Stilson, K., 2013, A Prototype Two-tier Mentoring Program for Undergraduate Summer Interns from Minority-Serving Institutions at the University of Alaska Fairbanks, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 138 Haselwimmer, C.E., Wilson, R., Upton, C., **Prakash, A.**, Holdmann, G., and Walker, G., 2013, Hyperspatial Thermal Imaging of Surface Hydrothermal Features at Pilgrim Hot Springs, Alaska using a small Unmanned Aerial System (sUAS), *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).

- 137 Starkenburger, D. P., Fochesatto, G.J., Nagano, H., Harazono, H., Iwata, H., Cristobal, J., Prakash, A., and Kane D., 2013, Large Scale Turbulent Heat Fluxes in Boreal Forest of Interior Alaska, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 136 Waigl, C., Stuefer, M., and **Prakash, A.**, 2013, Remote sensing of Alaskan boreal forest fires at the pixel and sub-pixel level: multi-sensor approaches and sensitivity analysis, *AGU Fall Meeting*, December 9-13, San Francisco, CA (poster).
- 135 **Prakash, A.**, Haselwimmer, C.E., Hampton, D., Kampe, T., Roberts, D.A., Mueller, A., and Bachmann, M., 2013, The University of Alaska Hyperspectral Imaging Laboratory (UA HyLab): building capacity for airborne imaging spectroscopy supporting Alaskan and Arctic science and applications, and HypSIRI preparatory activities. *HypSIRI Science and Applications Workshop*, October 15-17, Pasadena, CA (presentation).
- 134 Meggers, S., Seitz, A., **Prakash, A.**, and Haselwimmer, C.E., 2013, Factors influencing Chinook salmon spawning distribution in the Togiak River, Alaska. *Alaska Fisheries Society Meeting*, October 9-11, Fairbanks, Alaska (presentation).
- 133 **Prakash, A.**, Cristóbal, J., Haselwimmer, C.E., and Hampton, D., 2013, Potential of Hyperspectral Remote Sensing for Mapping Permafrost Features and Associated Biophysical Variables. *NRC Permafrost Workshop*, October 9, Fairbanks, AK (presentation).
- 132 Walsh J. and Prakash A., 2013, Remote Sensing and Observation Research Scenario. *Arctic Collaborative Environment (ACE) Technical Review and Interchange Meeting*, September 9-10, Fairbanks, AK (presentation).
- 131 Starkenburger, D.P., Fochesatto, G.J., and **Prakash A.**, 2013, The influence of low velocity winds and gravity waves on the detection and analysis of coherent structures in the Alaskan boreal forest, *Alaska Weather Symposium*, March 13, Fairbanks, AK (presentation).
- 130 Womble, J.N., Hoef, J.V., **Prakash, A.**, Haselwimmer, C., and Gens, R., 2013, Assessing the availability of glacial ice as habitat for harbor seals in a tidewater glacial fjord, *Alaska Marine Science Symposium*, January 21-25, Anchorage, Alaska (presentation).
- 129 Cristóbal, J., **Prakash, A.**, Starkenburger, D.P., Fochesatto, G.J., Anderson, M., Gens, R., Kane, D.L., Kustas, W., and Alfieri, J.G., 2012, Energy fluxes retrieval on an Alaskan Arctic and sub-Arctic vegetation by means MODIS imagery and the DTD method, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H21H-1270 (poster).
- 128 Floyd, A., **Prakash, A.**, Meyer, F.J., Gens, R., and Liljedahl, A.K., 2012, Using synthetic aperture radar to study river ice breakup on the Kuparuk River, Northern Alaska, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. C21C-0621 (poster).
- 127 Gens, R., Cristóbal, J., and **Prakash, A.**, 2012, Integrating geospatial data and models for higher order product generation and visualization in open-source domain, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H13M-06 (presentation).

- 126 Haselwimmer, C.E., **Prakash, A.**, Parr, C., Stowell, L., Miller, J.K., Daanen, R.P., and Holdmann, G., 2012, Investigating geothermally-heated ground at Pilgrim Hot Springs, Alaska using remote sensing observations of anomalous snow-melt and in-situ shallow temperature measurements, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. V13A-2808 (poster)..
- 125 **Prakash, A.**, Cristóbal, J., Fochesatto, G.J., Starkenburg, D.,P., Kane, D.L., Gens, R., Alfieri, J.G., Irving, K., Anderson, M., and Kustas, W., 2012, Field-based ET calibration and validation sites in interior Alaska: Preparatory science for NASA's planned HypsIRI mission, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. H13F-1426 (poster).
- 124 Starkenburg, D.,P., Fochesatto, G.J., Cristóbal, J., **Prakash, A.**, Gens, R., and Kane, D.L., 2012, The contribution of coherent structures to the aggregation of large-scale heat fluxes in the Alaskan boreal forest, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. A13D-0251 (poster).
- 123 Waigl, C., **Prakash A.**, and Stuefer, M., 2012, Sub-pixel characterization of Alaskan boreal forest fires using medium-resolution satellite-borne infrared remote sensing, *AGU Fall Meeting*, Dec 3-7, San Francisco, California. Abstract no. NH53A-1813 (poster).
- 122 Schaefer, K., **Prakash, A.**, Witte, W.K., and Gens, R., 2012, Developing A Decision Support System For Emergency Management Services, Alaska, *ESRI International User Conference*, Oct 26, Redland, CA (presentation).
- 121 **Prakash, A.**, Cristóbal, J., Fochesatto, G.J., Starkenburg, D.,P., Gens, R., Kane, D.L., Alfieri, J.G., Irving, K., Anderson, M., and Kustas, W., 2012, New evapotranspiration CalVal sites in interior Alaska: Preparatory science for NASA's planned HypsIRI mission, *Fifth HypsIRI Science Workshop*, Oct 16-18, Washington D.C. (presentation).
- 120 Balazs, M.S., Wolken, G.J., **Prakash, A.**, 2012, A comparison of DSMs derived from traditional and modern photogrammetric techniques, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
- 119 Daanen, R.P., Chittambakkam, A., Haselwimmer, C., **Prakash, A.**, Mager, M., and Holdmann, G., 2012, Geothermal Exploration at Pilgrim Hot Springs, Alaska, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
- 118 Miller, J.K., **Prakash, A.**, Daanen, R., and Haselwimmer, C., 2012, Stratigraphic model of the geothermal anomaly at Pilgrim Hot Springs, Seward Peninsula, Alaska, *Alaska Geologic Society Technical Conference*, Sept. 22, Fairbanks, Alaska (poster).
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