

Publication list

(Name underlined when student is the first author)

THESIS / BOOK CHAPTERS

1. Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), *Coal and peat fires: A global perspective, Volume 3, Case studies*, (in preparation, expected publication in 2013).
2. **Prakash, A.**, Chapter 25 - World's densest congregation of coal mine fires: A case study 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. (expected publication in 2013).
3. Watson, I.M. and **Prakash, A.**, Chapter 2 - Satellite systems and interactions. in *Monitoring Volcanoes in the North Pacific: Observations from Space*, edited by Dean, K.J. and Dehn, J., Springer and Praxis, 500p., ISBN: 978-3-540-24125-6. (expected publication in 2012).
4. Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), 2012, *Coal and peat fires: A global perspective, Volume 2, Photos and Multimedia Tour*, (in press).
5. **Prakash, A.**, Gens, R., Prasad, S., Raju, A., and Gupta, R.P., 2012, Jharia Coalfield Fires, India. in *Coal and peat fires: A global perspective, Volume 2, Multimedia and Photo Tour*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier (in press).
6. Stracher G.B, **Prakash, A.** and Sokol E.V. (Eds.), 2010, *Coal and peat fires: A global perspective, Volume 1, Coal- combustion and geology*, Elsevier, 335 p., ISBN-13: 978-0-444-52858-2.
7. **Prakash, A.** and Gens, R., 2010, Chapter 14 - Remote sensing of coal fires. in *Coal and peat fires: A global perspective, Volume 1, Coal - combustion and geology*, edited by Stracher, G.B, Prakash, A. and Sokol E.V., Elsevier, pp. 231-252, ISBN-13: 978-0-444-52858-2.
8. Quattrochi, D.A., **Prakash, A.**, Eveva, M., Wright, R., Hall, D.K., Anderson, M., Kustas, W.P., Allen, R.G., Pagano, T., and Coolbaugh, M.F., 2009, Thermal remote sensing: Theory, sensors, and applications. in *Manual of Remote Sensing 1.1: Earth Observing Platforms & Sensors*, volume ed. Mark Jackson, ASPRS, 550 p. ISBN: 1-57083-086-X.
9. Stracher, G.B., Finkelman R.B., Hower, J.C., Pone, D.N., **Prakash, A.**, Blake, D.R., Schroeder, P.A., Emsbo-Mattingly S.D., and O'Keefe, J.M.K., 2009, Natural and anthropogenic coal fires. in *Encyclopedia of Earth*, topic editor Dogan, A.U, Encyclopedia editor Cleveland, C.J., National Council for Science and the Environment.
10. 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.**, Woldai, T., 2004, *Principles of remote sensing : An introductory textbook* : translated into Korean. ITC Educational Textbook Series, 180 p. ISBN: 89-953256-3-1.

11. Parodi, G.N. and **Prakash, A.**, 2004, Chapter 9 - Radiometric correction. in *Principles of remote sensing: an introductory textbook* (Third edition), edited by N. Kerle, ITC Educational Textbook Series. 250p., ISBN: 90-6164-227-2.
12. **Prakash, A.**, 2001, Chapter 8 - Radiometric aspects. in *Principles and Remote Sensing* (Second edition), edited by Janssen, L.L.F. and Huurneman, G.C., ITC Educational Textbook Series. 180 p. ISBN: 90-6164-199-3.
13. **Prakash, A.**, 1996, *Remote sensing - GIS based geoenvironmental studies in Jharia Coalfield, India, with special reference to coalmine fires*. Ph.D. Thesis, Department of Earth Sciences, UOR, Roorkee, India, 194 p.

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1. Smikrud, K., **Prakash, A.**, and Margraf, J., Spatial analyses of large woody debris distribution and monitoring in the Unuk River, Southeast Alaska (in preparation).
2. Oommen, T., Baise, L.G., Gens, R., **Prakash, A.**, and Gupta R.P., Multisensor and multispectral approach in documenting and analyzing liquefaction hazard using satellite remote sensing (in review).
3. Panda, S.K., Romanovsky, V., **Prakash, A.**, and Marchenko S., Numerical modeling of permafrost dynamics at selected sites in interior Alaska (in review).
4. Panda, S.K., **Prakash, A.**, Jorgenson, M.T. and Solie, D.N., Application of multi-source remote sensing and field data to mapping permafrost distribution in Interior Alaska (in review).
5. South, L., Rosenberger, A., **Prakash, A.**, Margraf, J., and Hamazaki, T., A remote sensing/GIS-based approach to identify, monitor, and model spawning habitat for fall chum salmon in a sub-arctic, glacially-fed river (in review).
6. Ekstrand, A.L., Webley, P.W., Garay, M.J., Dehn, J., Prakash, A., Nelson, D.L., Dean, K.G., and Steensen T., 2011, A Multi-Sensor Plume Height Analysis of the 2009 Redoubt Eruption, *Journal of Volcanology and Geothermal Research* (in revision).
7. Woll, C., **Prakash, A.**, and Sutton, T., 2011, A case-study of in-stream juvenile salmon habitat classification using decision-based fusion of multispectral aerial images, *Applied Remote Sensing Journal* (in print).
8. Engle, M.A., Radke, L.F, Heffern E.L., O'Keefe, J., Smeltzer, C.D., Hower, J.C., Hower, J.M., **Prakash, A.**, Kolker, A., Eatwell, R.J., ter Schure, A., Queen, G., Aggen, K.L., Stracher, G.B., Henke, K.R., Olea, R., and Román-Colón, Y., 2011, Quantifying greenhouse gas emissions from coal fires using airborne and ground-based methods, . *International Journal of Coal Geology*, 88 (2-3), 147-151.
9. **Prakash, A.**, Schaefer, K., Witte, W.K., Collins, K., Gens R., and Goyette, M., 2011, Remote Sensing - GIS Based Investigation of a Boreal Forest Coal Fire. *International Journal of Coal Geology*, 86 (1), 79-86.

10. Oommen, T., Misra, D., **Prakash, A.**, Bandopadhyay S., Naidu, S., and Kelley, J.J., 2011, Multiple regressive pattern recognition technique: An adapted approach for improved georesource estimation. *Natural Resources Research*, 20 (1), 11-24.
11. Panda, S.K., **Prakash, A.**, Solie, D.N., Romanovsky, V.E. and Jorgenson, M.T., 2010, Remote sensing and field-based mapping of permafrost distribution along the Alaska Highway corridor, Interior Alaska. *Permafrost and Periglacial Processes*, 21: 271–281.
12. Yarker, M.B., PaiMazumder, D., Cahill, C.F., Dehn, J., **Prakash, A.**, Mölders, N., 2010. Theoretical investigations on potential impacts of high-latitude volcanic emissions of heat, aerosols and water vapor and their interactions on clouds and precipitation. *Open Atmospheric Science Journal*, (4), 24-44.
13. Wiltse, M., **Prakash, A.**, Burns, L., 2009, Image analysis of airborne geophysical data from the Salcha river – Pogo area, Alaska. *Canadian Journal of Remote Sensing*, 35(S1), S56-S71.
14. Kolker, A., Engle, M., Stracher, G., Hower, J.C., **Prakash, A.**, Radke, L.F, ter Schure, A., and Heffern, E.L., 2009, Emissions from coal fires and their impact on the environment. *US Geological Survey*, Fact Sheet 2009–3084.
15. Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., and DAWG members, 2008, Recommendations for making geoscience data accessible and usable in education. *EOS*, 89(32), 291, (DOI: 10.1029/2008EO2003).
16. Smikrud, K., **Prakash, A.**, and 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.
17. Oommen, T., Misra, D., Twarakavi, N.K., **Prakash, A.**, Sahoo B.C., and Bandopadhyay S., 2008, An objective analysis of support vector machine based classification for remote sensing. *Mathematical Geosciences*, 40(4), 409-424.
18. Connor, C., and **Prakash, A.**, 2008, Experiential discoveries in geoscience education: The EDGE Program in Alaska. *Journal of Geoscience Education*, 56(2), 179-186.
19. Oommen, T., **Prakash, A.**, Misra, D., Naidu, S., Kelley, J.J., and Bandopadhyay S., 2008, GIS based marine platinum exploration, Goodnews bay region, southwest Alaska, *Marine Georesources and Geotechnology* , 26(1), 1-18.
20. Berthelote, A.R., **Prakash, A.**, and Dehn, J., 2008, An empirical function to estimate the depths of linear hot sources: Applied to the Kuhio Lava tube, Hawaii. *Bulletin of Volcanology*, 70 (7), 813-824.
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22. **Prakash, A.**, 2006, Introducing geoinformatics for Earth system science education. *Journal of Geoscience Education*, 54(5), 555-560.

23. Smikrud, K. and **Prakash, A.**, 2006, Detecting and monitoring large woody debris in a part of the Unuk river, Alaska, using digital aerial photography. *GIScience and Remote Sensing*, 43 (2), 142-154.
24. Stracher, G.B., **Prakash, A.**, Schroeder, P., McCormack, J., Zhang, X.M., and van Dijk, P., 2005, New mineral occurrences and mineralization processes: Wuda coal-fire gas vents of Inner Mongolia. *American Mineralogist*, 90(11-12), 1729-1739.
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27. **Prakash, A.**, Fielding, E.J., Gens, R., Genderen, J.L. van and Evans, D.L., 2001, Data fusion for investigating land subsidence and coalfire hazards in a coal mining area. *International Journal of Remote Sensing*, 22(6), 921-932.
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REFEREED ONLINE PRODUCTS AND PUBLICATIONS *

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2. McCaffrey, M., Meier, W., **Prakash, A.**, Rogan, B., and Youngman, B., 2007, Whither Arctic Sea Ice? Case Study Chapter in the Earth Exploration Toolbook. Passed NASA educational and DLESE community review (<http://serc.carleton.edu/eet/seaice/>). Part of the reviewed Climate Literacy & Energy Awareness Network (CLEAN) collection.
3. **Prakash, A.**, Gens, R., and Gupta, A., 2006, Treasure Hunt in Alaska. A website for grades 4-5 school children reviewed and approved by NASA Science Mission Directorate Education Product Review Panel (www.treasure-hunt.alaska.edu).
4. **Prakash, A.**, Nielsen, C., Gupta, A., and Gens, R., 2004, Alaska: A Bird's Eye View. A website for middle school children reviewed and approved by NASA Earth Science Enterprise Education Product Review Panel (www.birds-eye-view.alaska.edu).

*Each product is approved after a rigorous review by a 5-6 member panel consisting of scientists and educators.

CONFERENCE PROCEEDINGS / OTHER JOURNALS

1. Balazs, M.S., Wolken, G.J., **Prakash, A.**, 2011, Estimating Rates of Sedimentation using LiDAR, GPS, and Historic Aerial Imagery. *Eos Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. NH53A-1733.
2. Haselwimmer, C., and **Prakash, A.**, 2011, Use of airborne thermal imaging to quantify heat flux and flow rate of surface geothermal fluids at Pilgrim Hot Springs, Alaska. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. H51C-1223.
3. Floyd, A., Liljedahl, A.K., Gens, R., **Prakash, A.**, Mann, D.H., 2011, Remote Sensing, Modeling, and In-Situ Measurements to Study the Spring and Summer Thermal Regime of the Kuparuk River, Northern Alaska. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. C41C-0422.
4. Schaefer, K., **Prakash, A.**, and Witte, W., 2011, Hazard Analysis and Disaster Preparedness in the Fairbanks North Star Borough, Alaska using Hazard Simulations, GIS, and Network Analysis. *Trans. AGU* 92(52), Fall Meet. Suppl., Abstract no. NH13D-1402.
5. Haselwimmer, C., **Prakash, A.**, and Holdmann, G., 2011, Geothermal Exploration in Pilgrim, Alaska Using Airborne Thermal Infrared Remote Sensing. *Geothermal Resource Council*, 35th Annual Meeting, Oct 23-26, San Diego, California. Full manuscript.
6. Panda, S.K., Marchenko, S., **Prakash, A.**, and Romanovsky, V.E., 2010, Modeling of permafrost dynamics at two different biophysical settings near Dry Creek, Interior Alaska. *Eos Trans. AGU* 91(52), Fall Meet. Suppl., Abstract no. C31A-0492.

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11. Trochim E., **Prakash, A.**, and Kane, D., 2010, Assessing the impacts of the hydrological drainage networks upon the characteristics of permafrost in the Upper Kuparuk region, *Third European Conference on Permafrost*, June 13-17, Svalbard, Norway,
12. Orlich, A., Hutchings, J., and **Prakash, A.**, 2010, Comparing In-situ Observations of Arctic Sea Ice to SSM/I and AMSR-E Sea Ice Products for 2006-2009, *IPY Oslo Science Conference*, Oslo, Norway, June 8-12, Session T5-5 Space for polar science.
13. Trochim E., **Prakash, A.**, and Kane, D., 2010, Integrating field methods into the study of water tracks in the foothills of the Alaskan Arctic, *IPY Oslo Science Conference*, Oslo, Norway, June 8-12, Session T2-4 Permafrost on a warming planet.
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28. Kolker, A., Engle, M.A., Hower, J.C., O'Keefe, J., Radke, L.F, Heffern, E.L., ter Schure, A., Stracher, G.B., **Prakash, A.**, Román-Colón, Y., and Olea, R., 2009, Measuring CO2 emissions from coal fires in the U.S., Proceedings, *Annual International Coal Conference*, Pittsburgh, PA, September, 7 p. [Best technical paper, 2009 Conference]
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31. **Prakash, A.**, Ohler, J., and Connor, C., 2009, Enhancing Diversity in Geosciences in Alaska Through an Introduction of Geospatial Education and Digital Storytelling, *National Science Teachers Association Annual Meeting*, New Orleans, Louisiana, March 19-22, Session no. 2028.
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35. **Prakash, A.**, Engle, K., Panda, S., Margraf, J., and Underwood, T., 2008, Nearshore Thermal Habitat and General Circulation Mapping in Arctic Alaskan Coasts Using Archived AVHRR Images. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. OS11D-1166.
36. **Prakash, A.**, and Connor, C., 2008, Recruiting first generation college students into the Geosciences: Alaska's EDGE project. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. ED52A-03.
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39. Ledley, T.S., **Prakash, A.**, Manduca, C., Fox, S., Dahlman, L., Domenico, B., and Taber, M.R., 2008, Archiving Data to Facilitate Its Use in Education. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. U13D-05.
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41. Panda, S., **Prakash, A.**, and Solie, D., 2008, Identification of Surface Signatures Indicative of Near-Surface Permafrost in the Alaska Highway Corridor. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. C31E-0553.

42. Trochim E., **Prakash, A.**, and Kane, D., 2008, Delineating Water Tracks in Headwater Drainage Basins of the Alaskan Arctic. *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract no. C31E-0558.
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45. Connor, C., **Prakash, A.**, and Brownlee, M., 2008, GIS In Alaska's Grades 6-12 Earth Science Environment: The Experiential Discoveries in Geoscience Education (EDGE) Project. *Geological Society of America*, Houston, Texas.
46. Stracher, G., Hower, J., Hiatt, J., **Prakash, A.**, Pone, D. et al., 2008, Coal Fires: Gateway to Environmental Destruction and Human Suffering. *SpontCom2008*, Johannesburg, South Africa, September 9. Plenary address at international conference (delivered by graduate student Denis Pone).
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