

## Publication list

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### Thesis, book chapters, manuals and reports

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- PRAKASH, A., **GENS, R.**, PRASAD, S., RAJU, A. AND GUPTA, R.P., 2013. [Coal Fires in the Jharia Coalfield, India](#). In Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 2, Photographs and multimedia tours*. Elsevier, p. 153-177.
- STRACHER, G., WITH CONTRIBUTING AUTHORS (**GENS, R.**) BY STATE (ALASKA, KENTUCKY, UTAH), 2013. [United States Coal Fires](#). In Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 2, Photographs and multimedia tours*. Elsevier, p. 441-528.
- GENS, R.**, 2012. *Remote sensing of glaciers: Techniques for topographic, spatial and thematic mapping of glaciers (by P.K.E. Pellikka and W.G. Rees)*. Book review for Photogrammetric Engineering & Remote Sensing.
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- GENS, R.**, 2009. [Spectral Information Content of Remote Sensing Imagery](#). In Li et al. (eds.) *Geospatial Technology for Earth Observation*. Springer, p. 177-201.
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- GENS, R.** AND LOGAN, T., 2003. *Alaska Satellite Facility software tools: Manual*. Geophysical Institute, UAF, ISBN 0-915360-16-0, 180 pages.
- BREE, R.J.P., **GENS, R.**, GROOT, J.S., HALSEMA, D. VAN, HANSSEN, R.F., HOUT, P. VAN DEN, KLEES, R., MIN, E. DE, SCHRAMA, E.J.O. AND USAI, S., 2000. *Deformation measurements with SAR*. Netherlands Remote Sensing Board, USP-2-99-16.
- GENDEREN, J.L. VAN, PRAKASH, A., **GENS, R.**, VEEN, B.S. VAN, LIDING, C., TAO, T.X. AND FENG, G., 2000. *Coal fire interferometry*. Netherlands Remote Sensing Board, USP-2-99-32.
- GENS, R.**, 1998. [Quality assessment of SAR interferometric data](#). Doctoral thesis, University of Hannover, Germany, 141 pages.
- GENDEREN, J.L. VAN, CASSELLS, C. AND **GENS, R.** (EDS.), 1997. *Synergy of remotely sensed data - A European scientific research network*. Final report, Enschede, the Netherlands, ISBN 90-6164-151-9, 81 pages.

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### Refereed journal papers

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- GENS, R.**, ATWOOD, D.K. AND POTTIER, E., 2013. [Geocoding of polarimetric processing results: Alternative processing strategies](#). *Remote Sensing Letters*, **4** (1): 39-45.
- ATWOOD, D.K., SMALL, D. AND **GENS, R.**, 2012. [Improving PolSAR Land Cover Classification With Radiometric Correction of the Coherency Matrix](#). *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **5** (3): 848-856.
- BIENIEK, P., BHATT, U., THOMAN, R., ANGELOFF, H., PARTAIN, J., PAPINEAU, J., FRITSCH, F., HOLLOWAY, E., WALSH, J., DALY, C., SHULSKI, M., HUFFORD, G., HILL, D., CALOS, S. AND **GENS, R.**, 2012. [Climate divisions for Alaska based on objective methods](#). *Journal of Applied Meteorology and Climatology*, **51** (7): 1276-1289.
- WIRTH, L., ROSENBERGER, A., PRAKASH, A., **GENS, R.**, MARGRAF, F.J., AND HAMAZAKI, T., 2012. [A remote sensing / GIS-based approach to identify, characterize, and model spawning habitat for fall chum salmon in a sub-arctic, glacially-fed river](#). *Transactions of the American Fisheries Society*, **141** (5): 1349-1363.
- 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.
- BHATT, U.S., WALKER, D.A., RAYNOLDS, M.K., COMISO, J.C., EPSTEIN, H.E., JIA, G., **GENS, R.**, PINZON, J.E., TUCKER, C.J., TWEEDIE, C.E. AND WEBBER, P.J., 2010. [Circumpolar Arctic tundra vegetation change is linked to sea-ice decline](#). *Earth Interactions*, **14** (8): 1-20.
- GENS, R.**, 2010. [Remote sensing of coastlines: Detection, extraction and monitoring](#). *International Journal of Remote Sensing*, **37** (7): 1819-1836.
- GENS, R.**, 2008. [Oceanographic Applications of SAR Remote Sensing](#). *GIScience & Remote Sensing*, **45** (3): 275-305.
- LI, S., BENSON, C., **GENS, R.** AND LINGLE, C. 2008. [Motion patterns of Nabesna Glacier \(Alaska\) revealed by interferometric SAR techniques](#). *Remote Sensing of Environment*, **112** (9): 3628-3638.
- LIMPITLAW, D., AND **GENS, R.**, 2006. [Dambo mapping for environmental monitoring using Landsat TM and SAR imagery: Case study in the Zambian Copperbelt](#). *International Journal of Remote Sensing*, **27** (21): 4839-4845.
- GENS, R.**, 2005. [RADARSAT-1 interferometric baseline catalog at the Alaska Satellite Facility](#). *EOS*, **86** (16): 158.
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- GENS, R.**, 2000. [The influence of input parameters on SAR interferometric processing and its implication on the calibration of SAR interferometric data](#). *International Journal of Remote Sensing*, **21** (8): 1767-1771.
- GENS, R.**, 1999. [Quality assessment of interferometrically derived digital elevation models](#). *International Journal of Applied Earth Observation and Geoinformation*, **1** (2): 102-108.
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- PRAKASH, A., **GENS, R.** AND VEKERDY, Z., 1999. [Monitoring coal fires using multi-temporal night-time thermal images in a coalfield in North-west China](#). *International Journal of Remote Sensing*, **20** (14): 2883-2888.
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### Proceedings papers and conference presentations

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- GENS, R.**, WIRTH, L., FLOYD, A. AND BARKER, E., 2012. Using of SAR imagery for open water characterization in cold northern climates. *IEEE International Geoscience and Remote Sensing Symposium*, Munich, Germany.
- TIWARI, R.K, GUPTA, R.P., **GENS, R.**, AND PRAKASH, A., 2012. Use of optical, thermal and microwave imagery for debris characterization in Bara-Shigri glacier, Himalayas, India. *IEEE International Geoscience and Remote Sensing Symposium*, Munich, Germany.
- ATWOOD, D., ARKO, S.A, **GENS, R.** AND SANCHES, R., 2011. Enhancing the Accessibility and Utility of UAVSAR L-band SAR Data. *AGU Fall Meeting*, San Francisco, CA, USA.
- BALSER, A., **GENS, R.** AND JONES, J., 2011. Synthetic Aperture RADAR (SAR) Polarimetry for Detection and Monitoring of Thermokarst Landforms in the Noatak Basin, Brooks Range, Alaska. *AGU Fall Meeting*, San Francisco, CA, USA.
- FLOYD, A., LILJEDAHL, A.K., **GENS, R.**, PRAKASH, A. AND MANN, D.H., 2011. Remote Sensing, Modeling, and In-Situ Measurements to Study the Spring and Summer Thermal Regime of the Kuparuk River,

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- BIENIEK, P.A., BHATT, U.S., WALKER, D.A., RAYNOLDS, M.K., COMISO, J.C., EPSTEIN, H.E., **GENS, R.**, PINZON, J., TUCKER, C.J., STEELE, M. AND OZIMEK, C. 2010. Alaska tundra vegetation trends and their links to the large-scale climate. *AGU Fall Meeting*, San Francisco, CA, USA.
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- PRAKASH, A., ANDERSON, M., BAISE, L., CSAPLOVICS, E., FOCESATTO, J., **GENS, R.**, GUPTA, R.P., KANE, D., MUMM, J., OKKONEN S.R., OOMMEN, T., SAHA, A., TROCHIM, E., WILSON R., AND WYATT, C., 2009. HypsIRI Preparatory Science at the University of Alaska Fairbanks. *Second HypsIRI Mission Science Workshop*, Pasadena, CA, USA.
- GENS, R.**, AND PRAKASH, A., 2009. Remote Sensing for Mapping Earth Surface Composition and Change. *Technical Session at the 43rd Alaska Surveying and Mapping Conference*, Anchorage, AK, USA.
- ATWOOD, D., DENNY, P., HOGENSON, H., DIXON, B. AND **GENS, R.**, 2008. MapReady: An Open Source Tool for the Utilization of SAR in Geospatial Applications *AGU Fall Meeting*, San Francisco, CA, USA.
- GENS, R.**, PRAKASH, A. AND 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 *AGU Fall Meeting*, San Francisco, CA, USA.
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- NICOLL, J. AND **GENS, R.**, 2003. Development and Application of a SAR Training Processor. *Proceedings of IGARSS'03*, Toulouse, France.
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- GENDEREN, J.L. VAN AND **GENS, R.**, 1996. SAR Interferometry: Principles and research trends. *Proceedings of the GEOINFORMATICS'96 Symposium*, Wuhan, China, Vol. I, pp. 99 106.
- GENS, R.** AND GENDEREN, J.L. VAN, 1996. An approach to error propagation modelling of SAR interferometric data. *ESA Fringe'96 Workshop*, Zurich, Switzerland.
- GENS, R.** AND GENDEREN, J.L. VAN, 1996. Analysis of the geometric parameters of SAR interferometry for spaceborne systems. *International Archives of Photogrammetry and Remote Sensing*, 31(B2):107-110.
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### Multimedia/web products

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- GENS, R.**, 2013. [\*Global distribution of coal and peat fires\*](#). Interactive World Map of Coal and Peat Fires made to accompany Stracher et al. (eds.) *Coal and peat fires: A global perspective, Volume 2, Photographs and multimedia tours*. Elsevier.
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- PRAKASH, A., **GENS, R.** AND MCCLUNG, S., 2007. [\*Polar Remote Sensing: A resource for undergraduate education\*](#). Rated as 'Outstanding' by NASA Science Mission Directorate Education Product Review Panel.
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