

Julie Elliott

Earth, Atmospheric, and Planetary Sciences, Purdue University
West Lafayette, IN 47906
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Education

Ph.D. (Geophysics) August 2011
University of Alaska Fairbanks, Fairbanks, Alaska
*Thesis: Active Tectonics in Southern Alaska and the Role of the Yakutat Block
Constrained by GPS Measurements*

M.Sc. (Geophysics) August 2005
University of Alaska Fairbanks
*Thesis: Coseismic deformation of the 2002 Denali Fault earthquake: Contributions from
synthetic aperture radar speckle tracking*

B.A. (Physics) May 1999
Whitman College, Walla Walla, Washington

Professional Experience

Assistant Professor 2014 – present
Earth, Atmospheric, and Planetary Sciences
Purdue University

Postdoctoral Research Associate 2011 – 2014
Department of Earth and Atmospheric Sciences
Cornell University

Graduate Research Assistant 2002 – 2005, 2006 – 2011
Geophysical Institute
University of Alaska Fairbanks

Graduate Teaching Assistant 2005 – 2006
Department of Geology and Geophysics
University of Alaska Fairbanks

Publications

Elliott, J., and M. E. Pritchard, Historic photographs of glaciers and glacial landforms from R. S. Tarr collection at Cornell University, in review at Earth System Science Data.

Elliott, J., and J.T. Freymueller, A Block Model of Present-Day Kinematics of Alaska and Western Canada, in review at Journal of Geophysical Research.

Boggs, K. J. E., R. Aster, P. Audet, G. Burnet, R. Clowes, C. de Groot-Hedlin, D. Eaton, **J. Elliott**, J. Freymueller, M. Hedlin, R. Hyndman, P. Kushner, K. Morell, C. Rowe, D. Schutt, T. James, M. Ulmi, R. Vernon, and N. West (2018), EON-ROSE and the Canadian Cordillera Array – Building Bridges to Span Earth System Science in Canada, p. 97-109, ISSN 1911-4850. doi:<https://doi.org/10.12789/geocanj.2018.45.136>.

Gary L. Pavlis, Mark A. Bauer, **Julie L. Elliott**, Peter Koons, Terry L. Pavlis, Natalia Ruppert, Kevin M. Ward, Lindsay L. Worthington (2019), A unified three-dimensional model of the lithospheric structure at the subduction corner in southeast Alaska: Summary results from STEEP. *Geosphere* doi: <https://doi.org/10.1130/GES01488.1>

Brothers, D.S., **J. Elliott**, J. E. Conrad, P. J. Haeussler, and J.A. Kluesner (2018), Strain Partitioning in Southeastern Alaska: Is the Chatham Strain Fault Active?, *Earth. Planet. Res. Lett.*, 481, 362-371.

Henderson, S., F. Delgado, **J. Elliott**, M. Pritchard, and P. Lundgren (2017), Decelerating uplift at Lazufre Volcanic Center, Central Andes, from AD 2010 to 2016, and Implications for Geodetic Models, *Geosphere*, 13(5), 1489-1505, doi:10.1130/GES01441.1.

Shillington, D.J. et al. (2016), Acquisition of a Unique Onshore/Offshore Geophysical and Geochemical Dataset in the Northern Malawi (Nyasa) Rift, *Seis. Res. Lett.*, 87, doi: 10.1785/0220160112.

Enkelmann, E., P.O. Koons, T.L. Pavlis, B. Hallet, A. Barker, **J. Elliott**, J.I. Garver, S.P.S. Guluck, R. Headley, G. Pavlis, K. Ridgway, N. Ruppert, and H.J.A. Van Avendonk (2015), Cooperation among tectonic and surface processes in the St. Elias Range, Earth's highest coastal mountains, *Geophys. Res. Lett.*, 42, 5838-5846, doi:10.1002/2015GL064727.

Marechal, A., S. Mazzotti, **J. Elliott**, J.T. Freymueller, and M. Schmidt (2015), Indentor-corner tectonics in the Yakutat-St. Elias collision constrained by GPS, *J. Geophys. Res.*, 120, 3897-3908, doi: 10.1002/2014JB011842.

Chapman, J. B., **J. Elliott**, D. I. Doser, and T. L. Pavlis, Slip on the Suckling Hills splay fault during the 1964 Alaska earthquake, *Tectonophys.*, 637, 191-197, doi:10.1016/j.tecto.2014.10.007.

Elliott, J., J. T. Freymueller, and C. F. Larsen (2013), Active tectonics of the St. Elias orogen, Alaska, observed with GPS measurements, *J. Geophys. Res. Solid Earth*, 118, 5625–5642, doi:10.1002/jgrb.50341

Elliott, J. L., C. F. Larsen, J. T. Freymueller, and R. J. Motyka (2010), Tectonic block motion and glacial isostatic adjustment in southeast Alaska and adjacent Canada constrained by GPS measurements, *J. Geophys. Res.*, 115, B09407, doi:10.1029/2009JB007139.

Pearson, C., R. McCaffrey, **J. L. Elliott**, R. Snay (2010), HTDP 3.0: Software for coping with the coordinate changes associated with crustal motion, *J. Survey Eng.*, 136(2), 80-90.

Elliott, J. L., C. F. Larsen, J. T. Freymueller, and R. J. Motyka (2009), Tectonic block motions in southeast Alaska and adjacent Canada, Earthscope OnSite Fall Newsletter, p. 3.

Freymueller, J.T., H. Woodard, S. Cohen, R. Cross, **J. Elliott**, C. Larsen, S. Hreinsdottir, and C. Zweck (2008), Active deformation processes in Alaska, based on 15 years of GPS measurements, *in* Active Tectonics and Seismic Potential of Alaska, AGU Geophysical Monograph, 179, J.T. Freymueller, P.J. Haeussler, R. Wesson, and G. Ekstrom, eds., AGU, Washington, D.C., pp. 1-42.

Elliott, J., J. T. Freymueller, and B. Rabus (2007), Coseismic deformation of the 2002 Denali Fault earthquake: Contributions from SAR range offsets, *J. Geophys. Res.*, 112, B06421, doi:10.1029/2006JB004428.

Invited Talks

J. Elliott (2018), Active Deformation in Alaska and Western Canada Observed with GPS, Earthscope Speaker Series Seminar, University of Washington.

J. Elliott (2018), Active Deformation in Alaska and Western Canada Observed with GPS, Earthscope Speaker Series Seminar, University of Tennessee.

J. Elliott (2018), Active Deformation in Alaska and Western Canada Observed with GPS, Earthscope Speaker Series Seminar, University of Wisconsin-Milwaukee.

J. Elliott, J. Freymueller, Y. Jiang, L. Leonard, R. Hyndman, and S. Mazzotti (2018), Accommodating Strain Across a Broad Plate Boundary Zone: The Example of Alaska and Western Canada, presented at the UNAVCO Science Workshop, Broomfield, Colorado, 27-29 Mar.

J. Elliott (2017), Active Deformation in Alaska and Western Canada and Targets for Improved Geodetic Coverage, presented at the Canadian Cordillera Array GNSS Workshop, Sidney, British Columbia, March 20-21.

J. Elliott (2017), An Integrated View of Tectonic Deformation in the Northeastern Pacific, Weekly Seminar Series, Univ. Texas at Austin.

J. Elliott (2017), Deformation Without Borders: GPS Results from Alaska and Western Canada, presented at the 2017 Earthscope National Meeting, Anchorage, Alaska, May 16-18.

J. Elliott (2017), Active Deformation in Alaska and Western Canada Observed with GPS, Earthscope Speaker Series Seminar, Millersville University.

J. Elliott (2017), Active Deformation in Alaska and Western Canada Observed with GPS, Earthscope Speaker Series Seminar, Kansas State University.

J. Elliott, J. T. Freymueller, Y. Jiang, L. J. Leonard, R. D. Hyndman, and S. Mazzotti (2017), Active Tectonics of the Far North Pacific Observed with GPS, presented at the 2017 AGU Fall Meeting, New Orleans, LA., Dec. 11-15.

J. Elliott (2016), GPS in Alaska and Western Canada, presented at the EarthsCAN Workshop, Whitehorse, Yukon, May 31.

J. Elliott (2016), GPS in Alaska and Western Canada and future GNSS Opportunities, presented at the EarthsCAN Planning Workshop, Mount Royal University, Calgary, Alberta, Aug, 17-18.

J. Elliott (2016), Science Targets for Improved Geodetic Coverage in Western Canada, presented at the GeoPRISMS workshop “Earthscope-type Canadian Cordillera Seismic Array and GPS network”, in conjunction with the 2016 AGU Fall Meeting, San Francisco, 11 Dec.

J. Elliott, J. Freymueller, A. Marechal, C. Larsen, and M.A. Perea Barreto (2015), An Integrated View of Tectonics in the North Pacific Derived from GPS, presented at 2015 AGU Fall Meeting, San Francisco, 11-14 Dec.

Elliott, J. (2015), Using Geodesy to Observe Glacier Change in Alaska, Weekly seminar series, Department of Geological Sciences, University of Florida.

Elliott, J. (2015), Using Geodesy to Observe Glacier Change in Alaska, Weekly seminar series, Department of Earth and Environmental Sciences, University of Kentucky.

Elliott, J. (2015), Using Geodetic Imaging and Historical Photographs to Document Glacier Change in Alaska, Department of Geological Sciences, Indiana University.

Elliott, J. (2014), Distributed Deformation within Plate Boundary Zones: Examples from the North Pacific Margin, Special Research Symposium, Department of Geosciences, Universidad de los Andes, Bogota, Colombia.

Elliott, J. (2013), Active Tectonics in Southern Alaska and Western Canada Constrained by GPS Measurements, Weekly seminar series, Syracuse University.

Elliott, J. (2013), Active Tectonics in Southern Alaska and Western Canada Constrained by GPS Measurements, Weekly seminar series, University of Iowa.

Elliott, J. (2013), Active Tectonics in Southern Alaska and Western Canada Constrained by GPS Measurements, Seminar, Geological Survey of Canada – Pacific/Pacific Geoscience Centre.

Elliott, J. (2012), Active Tectonics in southern Alaska and the role of the Yakutat Block Constrained by GPS measurements, Weekly seminar series, Purdue University.

Elliott, J. (2012), Active Tectonics in southern Alaska and the role of the Yakutat Block Constrained by GPS measurements, Weekly seminar series, Lamont-Doherty Earth Observatory.

Elliott, J. (2011), The Mobile Margin of Far North America: GPS Constraints on Active Tectonics in Southern Alaska and Northwestern Canada, Weekly seminar series, Department of Earth and Atmospheric Sciences, Cornell University.

Elliott, J. (2010), The Mobile Margin of Far North America: GPS Constraints on Active Deformation in Alaska and the Role of the Yakutat Block, Weekly seminar series, Institute for Geophysics, University of Texas at Austin.

Elliott, J., A. Berger, C. Larsen, T. Pavlis, N. Ruppert, and L. Worthington (2009), The St. Elias Erosion/Tectonics Project (STEEP), Wrangell – St. Elias National Park Research Summit, McCarthy, Alaska.

Elliott, J. (2008), Using GPS to Untangle the Tectonics of the Saint Elias Orogen, Alaska, Wrangell Mountains Center/Wrangell – St. Elias National Park Arts and Lectures Series, Kennecott, Alaska.

Selected Conference Abstracts

Elliott, J. and J. T. Freymueller (2019), An Integrated Geodetic Tectonic Model for Alaska, presented at 2019 Seismological Society of America Meeting, Seattle, WA, 23-26 April.

Leonard, L. J., A. Graham, K. Morell, C. Regalla, N. Harrichhausen, **J. Elliott**, Y. Jiang, C. Amos, and E. Lynch (2019), Near-Surface Geophysical, Geological, and Geodetic Constraints on the Seismic Hazard of the Leech River Fault in the Northern Cascadia Forearc, presented at 2019 Seismological Society of America Meeting, Seattle, WA, 23-26 April.

Bonnette, G., **J. Elliott**, Z. Molitor, M.E. Pritchard, S.L. Nooner, C. Ebinger, E. Saria, D. Ntambila, P.R.N. Chindandali, G.J. Mbogoni, and C. Andronicos (2018), Characterizing Deformation Along an Early-Stage Rift: GPS Observations from the Northern Lake Malawi (Nyasa) Rift, Abstract G23C-0619, presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec.

McConeghy, J.D., L. Flesch, and **J. Elliott** (2018), Investigating the Effect of Mantle Flow and Viscosity Structure on Surface Velocities in Alaska Using 3-D Geodynamic Models, Abstract G23C-0628, presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec.

Spinolo, J., **J. Elliott**, M. Truffer, M.E. Pritchard, and R. Motyka (2018), Variations in Ice Speeds at a Rapidly Retreating Glacier: Yakutat Glacier, Alaska, Abstract C11C-1142, presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec.

J. Elliott, Y. Jiang, L. J. Leonard, R. D. Hyndman, J. Freymueller, and S. Mazzotti (2017), Active Deformation of the Northern Cordillera Observed with GPS, presented at the 2017 AGU Fall Meeting, New Orleans, LA., Dec. 11-15.

M. E. Pritchard, W. Zheng, S. T. Henderson, J. B. Gaherty, D. J. Shillington, S. J. Oliva, C. Ebinger, S. L. Nooner, **J. Elliott**, E. Saria, D. Ntambila, and P. R. N. Chindandali (2017), Rifting Mechanisms Constrained by InSAR, Seismicity, GPS, and Surface Rupture from the Karonga Earthquake Sequence in Northern Lake Malawi (Nyassa), presented at the 2017 AGU Fall Meeting, New Orleans, LA, Dec. 11-15.

J. Elliott, L. Leonard, R. Hyndman, Y. Jiang, and J. Freymueller^M (2017), Active Deformation in Alaska and Western Canada Observed with GPS, presented at the 2017 Canadian Geophysical Union Meeting, Vancouver, British Columbia, May 28-31.

J. Elliott, J. Freymueller, C. Larsen, A. Marechal, S. Mazzotti, L. Nikolaishen, L. Leonard, and M. Schmidt (2016), An Integrated View of Tectonics in the North Pacific derived from GPS, presented at the 2016 GAC-MAC Meeting, Whitehorse, Yukon, June 1-3.

J. Elliott, A. Marchel, J. Freymueller, and C. Larsen (2016), Active Tectonics of Glacier Bay and Wrangell-St. Elias National Parks, Alaska, presented at the Alaska National Park Service Centennial Science and Stewardship Symposium, Fairbanks, Oct. 19-21.

J. Elliott, L. Stearns, M. Pritchard, and T. Bartholomaeus (2015), Observations of Dynamic Changes at an Advancing Tidewater Glacier: Hubbard Glacier, Southeast Alaska, presented at 2015 AGU Fall Meeting, San Francisco, CA, 14-18 Dec.

Pritchard, M., M.J. Comeau, M. West, D. Christensen, H. Mcfarlin, A. Farrell, R. Del Porto, J. Gottsmann, S. McNutt, G. Michelfelder, M. Diez, **J. Elliott**, S. Henderson, L. Keyson, F. Delgado, and M. Unsworth (2015), Multi-sensor geophysical constraints on crustal melt in the central Andes: the PLUTONS project, presented at 2015 AGU Fall Meeting, San Francisco, CA, 14-18 Dec.

Enkelmann, E., P.O. Koons, T.L. Pavlis, B. Hallet, A. Barker, **J. Elliott**, J.I. Garver, G. Pavlis, and N. Ruppert (2015), Cooperation Among Tectonic and Surface Processes in the St. Elias Range; Earth's Highest Coastal Mountains, Abstract 173-2, presented at 2015 GSA Annual Meeting, Baltimore, MD, 1-4 Nov.

Elliott, J., M. McAdams^U, and M. Pritchard (2015), The Ralph Tarr Alaska Collection: Glacier Photographs from 1904-1911, presented at 2015 Northwest Glaciology Meeting, Portland, OR, 16-17 Oct.

Henderson, S., M. Pritchard, **J. Elliott**, R. Del Potro, and F. Delgado, Observations and models of ground deformation from the PLUTONS Project: Lazufre and Uturunco, Central Andes, Abstract V23F-01, presented at 2014 Fall Meeting, AGU, San Francisco, CA, 15-19 Dec.

Noor, I. Ella, **J. Elliott**, S. Nadell, and M. Pritchard, Digitization of images from the 1905-1911 Alaska Expeditions of R.S. Tarr and Colleagues, presented at the Northwest Glaciology Annual Meeting, Fairbanks, Alaska, 17-18 Oct.

Chapman, J.B., **J. Elliott**, D.I. Doser, and T.L. Pavlis, Slip on the Suckling Hills Splay Fault during the 1964 Alaska Earthquake, presented at the Seismological Society of America Meeting, Anchorage, AK 30 April-2 May.

Elliott, J., J.T. Freymueller, and C. Larsen (2014), GPS-derived fault geometries and slip rates for eastern Prince William Sound and the St. Elias orogen, presented at the Seismological Society of America Meeting, Anchorage, AK, 30 April-2 May.

Elliott, J., M. Pritchard, A. Melkonian, and M. Willis (2013), Satellite Observations of Surface Flow Variations at Southeast Alaskan Glaciers, Abstract C43C-0685 presented at 2013 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec. (Poster Presentation)

Henderson, S. T., M. E. Pritchard, and **J. Elliott** (2013), Quantifying crustal response to deep active intrusions with geodesy-based finite element modeling, Abstract V12B-07 presented at 2013 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.

Elliott, J., J. T. Freymueller, and C. F. Larsen (2012), GPS Constraints on Strain Partitioning and Transfer in Alaska, 2012 Fall Meeting, AGU. (Invited Presentation)

Elliott, J., M. Pritchard, and A. Melkonian (2012), Satellite Observations of Glacier Change in Southeast Alaska, presented at the IGS Symposium on Glaciers and Ice Sheets in a Warming Climate, Fairbanks, AK, 24-29 June. (Poster Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2011), Active Tectonics of Southern Alaska and the Role of the Yakutat Block Constrained by GPS, Abstract T33A-2375 presented at 2011 Fall Meeting, AGU, San Francisco, CA, 5-9 Dec. (Poster Presentation)

Elliott, J., J. T. Freymueller, C. F. Larsen, and R. J. Motyka (2010), The Mobile Margin of Far North America: GPS Constraints on Active Deformation in Alaska and the Role of the Yakutat Block, Abstract T13C-2213 presented at 2010 Fall Meeting, AGU, San Francisco, CA, 13-17 Dec. (Poster Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2009), Deformation styles along the southern Alaska margin constrained by GPS, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract G23D-05. (Oral Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2009), Accretionary tectonics of southern Alaska constrained by GPS, Earthscope National Meeting, Boise, Idaho. (Poster Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2008), Collisional tectonics in the St. Elias orogen, Alaska observed by GPS, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract T44A-04. (Oral Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2007), Crustal deformation and strain localization in the Saint Elias orogen, Alaska, observed by GPS, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract G14A-02. (Oral Presentation)

Freymueller, J. T., and **J. Elliott** (2007), Uncertainty in the motion of the North American plate and its impact, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract G21B-0497.

Elliott, J., J. T. Freymueller, and C. F. Larsen (2006), Using GPS to untangle the tectonics of the Saint Elias orogen, Alaska, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract G42A-03. (Oral Presentation)

Larsen, C. F., R. Motyka, **J. L. Elliott**, J. T. Freymueller, K. A. Echelmeyer, and E. R. Ivins (2006), Combined datasets from GPS, raised shorelines, tide gauges and glacier volume changes used to differentiate between GIA, elastic rebound and tectonics in Glacier Bay, Alaska, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract G23C-02.

Elliott, J., J. T. Freymueller, and C. F. Larsen (2006), Using GPS to untangle the tectonics of the Saint Elias orogen, Alaska, Geological Society of America, *Abstracts with Programs*, 38(5), p. 95. (Poster Presentation)

Elliott, J., J. T. Freymueller, and C. F. Larsen (2005), Collisional tectonics of the Saint Elias orogen, Alaska, observed by GPS, *Eos Trans. AGU*, 86(52), Fall Meet. Suppl., Abstract T24A-04. (Oral Presentation)

Elliott, J., J. T. Freymueller, and B. T. Rabus (2004), Coseismic deformation from the 2002 M_w 7.9 Denali Fault earthquake: Insights from SAR speckle tracking, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract G21A-0120. (Poster Presentation)

Elliott, J., E. J. Price, and J. T. Freymueller (2003), Crustal deformation associated with the 2002 Denali Fault earthquake sequence observed by SAR interferometry, *Eos Trans. AGU*, 84(46), Fall Meet. Suppl., Abstract S12A-0371. (Poster Presentation)

Courses Taught

EAPS 59100 – Fundamentals of Geology	Fall 2014
EAPS 11600 – Earthquakes and Volcanoes	Spring 2015, 2016, 2017, 2018
EAPS 59100 – Introduction to Geodesy	Fall 2015, 2018
EAPS 59100 – Geodetic Data and Applications	Fall 2016, 2019
EAPS 59100 – Alaska Tectonics	Fall 2018
EAPS 35400 – Plate Tectonics	Spring 2019

Funded Projects

Geodetic Contributions to the Alaska Hazards Maps Agency: USGS	Duration: 2016-2017 \$51,181
Geodetic Characterization of the Easternmost Alaska Subduction Zone Agency: NSF	Duration: 2016-2020 \$226,401
Tectonic and magmatic processes during early-stage rifting: an integrated study of northern Lake Malawi, Africa Agency: NSF, subcontract through Columbia University	Duration: 2016-2020 \$93,952
Geodetic Field Response to the 2018 M7 Anchorage Earthquake Agency: NSF	Duration: 2019-2020 \$11,138

Professional Societies

American Geophysical Union	2003 – present
Geological Society of America	2006 – present
Seismological Society of America	2014 –
Canadian Geophysical Union	2017 –
Alaska Geological Society	

Awards and Honors

Earthscope Speaker Series speaker	2017 - 2018
Fulbright Specialist Roster	2017 -
Don Richter Memorial Scholarship, Alaska Geological Society (\$1000)	2010
Geophysical Society of Alaska Scholarship (\$1500)	2010
UAF Graduate School Thesis Completion Grant (\$12,000)	2009
Alaska Geological Society Scholarship (\$600)	2009
UAF College of Natural Sciences and Mathematics Student Travel Grant (\$600)	2005
Geophysical Institute Student Travel Grant (\$600)	2005
UAF Graduate School Travel Grant (\$600)	2004, 2008
Peter MacKeith Memorial Scholarship, UAF (\$1000)	2004

Service

Chair, UNAVCO Geodetic Data Services Advisory Committee	2018 – present
Member, UNAVCO Nominating Committee	2018 – present
Member, UNAVCO Geodetic Data Services Advisory Committee	2015 – present
Advisory Board, Canadian Cordillera Array/EON-ROSE Project	2017 – present
IRIS Grand Challenges Science Committee on Change and Interactions among Climate, Hydrology, Surface Processes, and Tectonics	2015
Organizing Committee, Earthscope National Meeting	2015

Computer Knowledge

Platform familiarity: Mac, Linux/Unix
Program familiarity: MATLAB, GMT, awk, VI, GIPSY/OASIS GPS processing software, ROI PAC InSAR software, Illustrator, Word, Excel, PowerPoint

Field Experience

Installation of benchmarks and campaign-style GPS surveys following the Denali Fault earthquake	2002
UAF Volcanology Field School – Katmai Campaign-style GPS surveys at sites in central Alaska	2003
UAF International Volcanology Field School – Kamchatka Campaign-style GPS surveys at sites in central and eastern Alaska Campaign-style GPS surveys at sites on and around Spurr volcano	2004
Establishment of new benchmarks across Chugach and St. Elias mountains, campaign-style GPS surveys at these and previously established benchmarks in region Establishment of new benchmarks around several volcanoes on the Kamchatka Peninsula and campaign-style GPS surveys at these sites	2005
Campaign-style GPS surveys at sites on the Kenai Peninsula, Alaska Establishment of additional benchmarks across Chugach and St. Elias mountains and campaign-style GPS surveys at these sites Deployment and retrieval of temporary GPS stations on Bering Glacier	2006
Campaign-style GPS surveys at benchmarks in the Chugach and St. Elias mountains and in Prince William Sound Establishment of semi-permanent GPS sites on Pavlof volcano	2007
Campaign-style GPS surveys at 50+ sites in the Chugach and St. Elias mountains Recovery and removal of seismic and GPS stations on the Bering Glacier	2008
Campaign-style GPS surveys at sites in the Chugach mountains and Prince William Sound	2009
Campaign-style GPS surveys at sites in central Alaska	2010
Campaign-style GPS installations and surveys at sites in the Lazufre volcanic region, Chile	2011
Campaign-style GPS surveys and maintenance of permanent GPS stations in the Lazufre volcanic region, Chile	2014

Maintenance of permanent GPS stations in the Lazufre volcanic region, Chile	2015
Maintenance of permanent GPS stations in the Lazufre volcanic region, Chile	2016
Maintenance of permanent GPS station on Haenke Island, Disenchantment Bay, Alaska	2017
Installation of permanent GPS station in the Copper River Valley, southcentral Alaska	2017
Campaign-style GPS surveys and maintenance of permanent GPS stations in Copper River Valley, southcentral Alaska	2018
Campaign-style GPS surveys and maintenance of permanent GPS stations in Copper River Valley, southcentral Alaska	2019