D. Sarah Stamps, PhD

Associate Professor	@dsarah	stamps (Twitter)
Virginia Tech	Phone:	(+1) 540-231-3651
Department of Geosciences	Fax:	(+1) 540-231-3386
926 W. Campus Drive	Email:	dstamps@vt.edu
Blacksburg, VA 24061	http://ww	vw.geodesy.geos.vt.edu
1.0 EDUCATION		
Purdue University, West Lafayette, IN PhD in Geodesy and Geophysics Dissertation: Kinematics and Dynamics of Nubia-Somalia Divergence the East African Rift	e Along	2013
The University of Memphis, Memphis, TN BS in Earth Sciences with honors		2007
Additional Training		
Diversity Committee Toolkit Workshop		2023
Introduction to Machine Learning		2022
Active Bystander Training: How to Stand Up and Step In To End Har	assment	2021
The Carpentries Instructor Training and Certification		2021
Captioning Fundamentals		2021
Principles of Effective Teaching Certificate Program		2020-2021
Becoming a Good Mentor Include Is a Verb: How Allies Make Inclusion a Reality		2020 2020
Creating Effective Group Activities and Assignments		2020
Fostering an Inclusive Classroom Environment		2019
Fostering a Growth Mindset		2019
2.0 POSITIONS HELD		
Associate Professor, Virginia Tech		2021 – present
Department of Geosciences		
Assistant Professor, Virginia Tech		2015 - 2021
Department of Geosciences		
Assistant Adjunct Professor of Geology, UCLA		2014-2016
NSF Earth Sciences Postdoctoral Fellow, MIT/UCLA		2013-2015
Main advisor: Brad Hager, MIT Proposal title: An Investigation of Continental Rift-Parallel Deformation	on	
NSF Graduate Research Fellow, GRA, and GTA, Purdue University		2008-2013
Main advisor: Eric Calais Thesis: Kinematics and Dynamics of Nubia-Somalia Divergence Alor	ng the Eas	t African Rift
NSF Research Experiences for Undergraduates Participant, The University	ty of Arka	ansas 2005 (summer)
Advisors: Glenn Mattioli and Pamela Jansma	•	` ,
Project: Caribbean Plate Block Kinematics and GPS Measurements		
NSF Undergraduate Research Assistant, The University of Memphis		2004-2007
Advisor: Robert Smalley		
Project 1: Kinematics of the Scotia Arc		
Project 2: Developing an analog earthquake locator		

3.0 HONORS AND AWARDS

NSF CAREER Award	2020-present
NSF Computational Infrastructure for Geodynamics Distinguished Lecturer	2019-2020
NSF Computational Infrastructure for Geodynamics Distinguished Lecturer	2017-2018
NSF EarthCube Community Service and Leadership Award	2017
NSF Earth Sciences Postdoctoral Research Fellowship	2013
NSF Graduate Research Fellowship	2009
Outstanding Scientific Publication Award (co-author)	2008
University of Memphis Outstanding Senior Award in Earth Sciences	2007
First and Second Place Awards, University of Memphis Research Forum	2007
Excellence in Earth Sciences Phi Beta Delta Honors Award	2006
NSF Research Experiences for Undergraduates, University of Arkansas	2005
University of Memphis Regents Tuition Award	2004-2007
Leadership Award, Mainthia Technologies, NASA	2003

4.0 GRANTS, FELLOWSHIPS, AND PROPOSALS

- PI, NSF Frontiers in Earth Sciences Program, "Dry Rifting in the Albertine-Rhino Graben" (\$3M total, \$491,754 Virginia Tech portion, 4 years) (Students: Asenath Kwagalakwe, Esha Islam, Crystal Lee, Justin Dean)
- PI, NSF CAREER Program "Volcano-tectonic interactions during early phases of continental rifting" (\$625,000, 5 years)
 (Students: Joshua Robert Jones, Ntambila Daud, Kelsey Popolizio, Rami Gorle, Abdullah Rizwan)
- Co-I, USGS, "Subsidence monitoring network to improve elevation datum quality for a comprehensive analysis of land motion effects on marsh migration in the Chesapeake Bay" (\$170,000, 4 years)
 (Students: Karen Williams, Gabrielle Troia, Madeline Kronebusch, Holly Hughes, Anabelle Fry)
- PI, Virginia Tech Coastal Hazards Seed Grant "Measuring vertical land motions 2018-2019 in the Hampton Roads Area, Virginia: Towards investigating land subsidence processes in the Chesapeake Bay" (\$5000, 1 year)
- PI, Virginia Tech ICTAS Program "Collecting Observations for Data Analysis 2017-2018 and Encoding in the Geosciences (CODE-GEO)" (\$10,000, 1 year)
- PI, NSF EarthCube Program "Brokered Alignment of Long-Tail Observations (BALTO)" (\$1.4M total, \$572,342 Virginia Tech portion, 3 years) (Students: Emmanuel Njinju, Ryan Roane, Gabbi Troia)
- Co-I, NSF EarthCube Program "An Expanded Implementation of Cloud-Hosted 2016 2021 Real-time Data Services for the Geosciences (CHORDS)" (\$1.3M total, \$87,815 + \$24,269 supplement Virginia Tech portion, 3 years) (Students: Joshua Robert Jones, ThaoVy Nguyen)
- PI, NSF GeoPRISMS Program "Quantifying plume-lithosphere interactions with GNSS geodesy, seismology, and geodynamic modeling" (\$393,047 + \$6000 REU) (Students: Tahiry Rajaonarison, Sean Malloy, Myles Mason, Rebecca Plosay)

PI, National Geographic Society "Impending volcano eruption response in northern Tanzania" (\$18,500, 1 year)	2017 - 2018
Co-I, National Geographic Society "Geodetic and Geochemical Constraint on the Hypothesized Lwandle-Somalia Plate Boundary in Northern Madagascar" (\$14,185, 1 year, student Tahiry Rajaonarison lead P	1
PI, National Geographic Society "An investigation of plate boundary forms in Madagascar" (\$25,056, 1 year)	ation 2014-2015
PI, NSF Earth Sciences Postdoctoral Fellowship "An investigation of continental rift-parallel deformation" (\$170,000, 2 years)	2013-2015
PI, National Geographic Society "Kinematic constraints on the Lwandle-Somalia plate boundary across Madagascar from GPS geodesy – Is Madagascar breaking apart?" (\$15,000, 2 years)	2011-2012
PI, NSF Graduate Research Fellowship Program "Testing rifting models in East African Rift" (\$100,000, 3 years)	the 2009-2013
5.0 TEACHING EXPERIENCE	
Virginia Tech (* indicates course was team taught) Tectonics/Advanced Tectonics (Undergraduate/Graduate, new course) Earth's Natural Hazards (Undergraduate, new section) Geodesy in the Earth Sciences (Undergraduate/Graduate, new course) Active Tectonics Seminar (Undergraduate/Graduate, new seminar) Tectonic Geodesy (Graduate, new course) Geodynamics and ASPECT (Graduate, new course) Undergraduate Research Web-based Tools for Teaching and Research: Jupyter Notebooks and GitHub (faculty only)	S16, Spring 2018-2023 F17, F18, S/F19, S20, S/F21 F18, F20, F22* S17* F16 F15*, F17, F20 every semester F21*
Makerere University, Uganda DRIAR project training school 2022	2022*
Government of Uganda, Entebbe Workshop on Tectonic Geodesy Applications for the Seismology Department	2018
AfricaArray Annual Meetings, University of Witwatersrand, S. Africa International Scientific Collaboration and AfricaArray, Instructor Experiment Design and Implementation with GNSS, Instructor	June 2018 June 2017
University of California, Los Angeles Geologic Maps	Winter quarter 2015
University of Antananarivo, Madagascar Introduction to GPS Geodesy and High Precision Observations GPS Training Program	July 2015 June 2013
University of Bukavu, Democratic Republic of Congo GPS Geodesy and Applications in Geodynamics Short-Course	March 2013
Boston University Guest Lecturer, Introductory Geophysics	November 2013

Purdue University

Teaching Assistant, Geosciences in the Cinema Fall 2011

Laboratory Instructor, Physical Geology Summer 2010, Spring 2012

Guest Lecturer, A Dynamic Earth October 2010, 2012

Center for Earthquake Research and Information

Student Teacher, Outreach Activities Spring 2007, Fall 2007

The University of Memphis

Instructor, Environmental Geology Laboratory Spring 2005

6.0 CURRENT GEODESY AND TECTONOPHYSICS LABORATORY MEMBERS

<u>Undergraduate Students</u>

Justin Dean (CMDA, Virginia Tech, 2023 – present)

Madeline Kronebusch (Geosciences, 2021 – present)

Anabelle Fry (Geosciences, Virginia Tech, 2022 – present)

Ruben Ramirez (Geosciences, Virginia Tech, 2022 – present)

Graduate Students

Karen Williams (PhD Student, NSF DRRM Fellow, Virginia Tech, 2020 - present)

Asenath Kwagalakwe (PhD Student, Virginia Tech, 2021 – present)

Ntambila "Daud" Masungulwa (PhD Student, Virginia Tech, 2021 – present)

Software Engineer / Data Science Collaborators

Mike Dye (2021 – present)

John Wenskovitch (2020 – present)

7.0 FORMER GEODESY AND TECTONOPHYSICS LABORATORY MEMBERS

Postdoctoral Associates

Dr. Emmanuel Njinju (2020 – 2023)

<u>Undergraduate Students</u>

Holly Hughes (Geosciences, Virginia Tech, 2022 – 2023)

Isabella Paolucci (Geosciences, Virginia Tech, 2022 – 2023)

Esha Islam (Computational Modeling and Data Analytics, Virginia Tech, 2021 – 2023)

Deja Celestine (USGS Student Contractor, 2021 – 2023)

Crystal Lee (Computational Modeling and Data Analytics, Virginia Tech, 2021 – 2022)

Gabrielle Troia (Geosciences, Virginia Tech, 2019 - 2022)

Rufus Hinton (Engineering, Virginia Tech, 2019 - 2022)

Kelsey Popolizio (Geosciences, Virginia Tech, 2021 – 2022)

Abdullah Rizwan (Computational Modeling and Data Analytics, Virginia Tech, 2021 – 2022)

Rami Gorle (Computational Modeling and Data Analytics, Virginia Tech, 2021 – 2022)

Liam O'Hanlon (Sociology and Criminology, Virginia Tech, 2021 – 2022)

Myles Mason (Computational Modeling and Data Analytics, Virginia Tech, Sept. 2019 – Aug. 2021)

Rebecca Plosay (Geosciences, Virginia Tech, Oct 2019 – May 2020)

Ryan Roane (Physics, Virginia Tech, January 2018 – July 2020)

Roberto Gorjon-Andujar, (BS Geosciences, Virginia Tech, August 2018 – May 2020)

Israel Mamo (Computational Modeling and Data Analytics, Virginia Tech, May 2019 – June 2019)

ThaoVy Nguyen (Mathematics, Virginia Tech, April 2017 – June 2019)

Sarah Morgan, (Mathematics, Virginia Tech, January 2018 – December 2018)

Sean Malloy (Physics, Virginia Tech, January 2017 – May 2018, now Field Engineer at UNAVCO)

Codi Wiersma, (Geosciences, Virginia Tech, August 2016 – May 2017)

Jared Guzman (Physics, Virginia Tech, October 2017 – December 2017)

Greg Jesmok (Geology, UCLA, 2016)

Raul Carrillo (Geology, UCLA, 2016)

Graduate Students

Jane Wambui (Msc, 2022, University of Nairobi, co-advisor)

Joshua Robert Jones (PhD, 2021, MAOP Fellow, Virginia Tech, now a geodesist at the US National Geodetic Survey)

Emmanuel Njinju (PhD, 2020, Virginia Tech, now a postdoctoral associate at University of California, Davis)

Tahiry Rajaonarison (PhD, 2020, Virginia Tech, now a postdoctoral associate at New Mexico Tech)

Jessica Schobelock (MSc, 2018, Virginia Tech, now a Software Engineer at Capitol One)

Herimitsinjo Nia (MSc co-advisor, 2015, University of Antananarivo, Madagascar)

Tahiry Rajaonarison (MSc, co-advisor, 2013, University of Antananarivo, Madagascar)

Research Associates

Rui Xu, Associate Researcher Visiting Scholar, 2017-2018, Sichuan Earthquake Bureau, China

8.0 OUTREACH

Public presentations	
Makerere University, Uganda	2022
Virginia Tech Department of Geosciences Public Lecture	2018
Ardhi University, Tanzania	2016
Presentation to Engaresero Village, Tanzania on Volcanic Hazards	2016
and the new TZVOLCANO GNSS Network	
K-12 presentations and activities	
Virginia Tech Hokie for a Day	2022
Virginia Tech Summer Camps	2022
Virginia Tech Black College Institute Geosciences representative	2020, 2021
Virginia Tech Summer Uncamp "Ask an Expert"	2020
Editor, contributor, and featured explorer for National Geographic Kids Book	2018 - 2019
"Absolute Expert: Rocks and Minerals" by Ruth Strother	
National Geographic "Earth and Space Science" by Mark Hendrix High	2019
School Textbook featurette	
Contributor to National Geographic Kids "Solve This!" Children's Book	2016
Sishi High School, China (200+ students)	2015
Chengdu No. 7 High School, China (300+ students)	2015
Sumbawanga Secondary School, Tanzania (200+ students)	2014
2 High Schools in Madagascar (100+ students)	2014
Soroto Secondary School, Tanzania (200+ students)	2010
Olito Secondary School, Uganda (200+ students)	2010
Trinity High School, Haiti (60+ students)	2010
S&H Secondary School, Haiti (50+ students)	2010
Ikizu Secondary School, Tanzania (150+ students)	2008
Media	
YouTube Video on Africa—Tectonic Setting and Historic Earthquakes	2022
IRIS, Scientific consultant	
DRIAR Project Field Training School – 11th-22nd July 2022	2022
Makerere University, Uganda blog post	
Measuring volcanic interactions using real-time data on Jetstream	2021
NSF XSEDE Jetstream Science Focus Article	

Seismological Society of America At-Work: D. Sarah Stamps	2020
D. Sarah Stamps receives \$625,000 NSF CAREER grant to study role	2020
of volcanism in continental rifting, Virginia Tech College of Science New	S
New study: East African Rift System is slowly breaking away, with	2020
Madagascar splitting into pieces, Virginia Tech College of Science News	
Geosciences' D. Sarah Stamps rocks science in National Geographic Kids	2019
book, Virginia Tech College of Science News	
<u>UNAVCO Highlight: CHORDS Provides Next Generation Infrastructure for</u>	2019
Real-time Geoscience Data Services,	
Spring Virginia Tech Science Magazine for CODE-GEO	2018
Invited AGU Policy Twitter featured Tweet	2018
National Geographic Society media interview	2017
on "Mountain of God" Volcano Preparing to Erupt	
Geoscience's D. Sarah Stamps to spearhead \$1.4 million NSF grant to build	2017
key cyberinfrastructure project, Virginia Tech College of Science News	
Geosciences team to place GPS sensors around Tanzanian volcano in	2016
effort to predict eruptions, Virginia Tech College of Science News	• • • • • • • • • • • • • • • • • • • •
National Geographic Society, Interview for Women in Science project	2016
Interview for Discovery Magazine on the East African Rift System	2016
UNAVCO Highlight: Rifting in Eastern Africa: Geodetic data deciphers	2014
spreading forces	2010
Interview for Haitian television on 2010 earthquake, Haiti	2010
Interview for Haitian radio network on 2010 earthquake, Haiti	2010
UNAVCO Highlight: Plate tectonics in the East African Rift	2008
9.0 LEADERSHIP AND SERVICE	
National/International	
NSF EarthCube Early Career Travel Grant Proposal Leader	2021 - 2022
Guest Associate Editor in Solid Earth Geophysics, Frontiers	2021 - 2022
Special Topics Editor, Advances in African Earth Sciences, Frontiers	2021 - 2022
Carpentries Code of Conduct Committee Member	2021 - 2022 2021 - present
NSF EarthCube Workshop Template Materials Proposal Leader	2020 present
Co-Leader of the Early Career Investigator Community Workshop to	2020
Develop a Vision for the Future NSF Geophysical Facility	2020
AGU Committee Chair, Africa Award for Research Excellence	2020 - 2022
in Earth/Ocean Sciences	
AGU Committee member, Africa Award for Research Excellence	2018 - 2020
Research Excellence in Earth and Ocean Sciences	
NSF EarthCube Science and Engagement Team Co-Chair (elected)	2020 - 2022
NSF EarthCube Leadership Council (elected)	2017 - 2018
NSF UNAVCO Virginia Tech Institutional member representative	2015 - present
NSF EarthCube Science Committee (now Science and Engagement Team)	2014 - 2022
NSF EarthCube P418-GUI Advisory Team	2018
NSF EarthCube Registry Priority Action Team	2017
NSF EarthCube 2017 All-Hands Meeting Organizing Committee	2017
NSF EarthCube 2017 All-Hands Meeting Emcee	2017
NSF EarthCube Architecture and Implementation Plan Tiger Team Member	2016
NSF UNAVCO Education & Community Engagement Committee Member	2009 - 2012
NSF UNAVCO Education & Community Engagement Committee Member	2015 - 2017
AGU Geodesy Executive Committee Member	2008 - 2010

AGU Fall Meeting Session, Co-Chair or Chair Review Panel Member for NASA's Earth & Surface Interiors Review Panel Member for NSF EAR Postdoctoral Fellowship 2016, 2021 External Grant Reviewer (Multiple years for the programs NSF Tectonics, GeoPRISMS, Geophysics, EarthCube, UK Early Career, NASA postdoctoral program) Reviewer for journals (Numerous reviews for journals such as Tectonics, Science Advances, Geophysical Journal International, Journal of Geophysical Research, Tectonophysics, Earth and Planetary Science Letters, Geophysical Research Letters, Physics of the Earth and Planetary Interiors, Reviews of Geophysics, etc.)		
Virginia Tech IT Systems and Services Committee Virginia Tech IT Transformation Steering Committee Virginia Tech Women in Data Science Blacksburg Event organizer Virginia Tech Department of Geosciences Alumni Event Virginia Tech Science Week/Virginia Tech GeoFair Virginia Tech Hokie Village education outreach Virginia Tech ICAT Day Spring Break Camp: Collecting Observations and Data Analysis for Encoding in the Geosciences Virginia Tech Science Week/Virginia Tech GeoFair	2021 - present 2022 - 2023 2022, 2023 2019 2019 2017, 2018 2018, 2021, 2022	
10.0 DIVERSITY, EQUITY, AND INCLUSION ACTIVITIES Virginia Tech College of Science Diversity & Inclusion Committee Chair Virginia Tech College of Science Diversity & Inclusion Committee Member Virginia Tech Geosciences URGE Pod Leader NSF EarthCube Diversity, Equity, and Inclusion Working Group Member Virginia Tech HHMI Inclusive Excellence Faculty Scholar International Association for Geoscience Diversity Member Virginia Tech Geosciences Inclusion, Diversity, Equity, Inclusion, and Accessibility (IDEA) Committee Member	2022 - present 2021 - 2022 2020 - present 2020 - 2021 2019 - 2022 2019 - present 2018 - present	
Virginia Tech Black College Institute Department Representative Supported Fall GNSS measurements with HBCU Hampton University Spring Break GNSS measurements with HBCU Hampton University Virginia Tech Black Students in STEM booth organization Black Students in STEM hike organizer and participant Virginia Tech Advancing Diversity Workshop Virginia Tech HBCU/HSI Institute Outreach Developed CODE-GEO program for underrepresented students in STEM (funded by NSF CAREER grant for 2021-2025)	2019, 2020, 2021 2020, 2021 2019 2019 2019 2018, 2019, 2020 2018, 2019, 2020 2018, 2021, 2022	
11.0 INVITED PANEL PARTICIPANT Women in Data Science Blacksburg Event Career Panelist EarthCube Program Panelist International Data Week Panelist 12.0 ORAL PRESENTATIONS GAGE/SAGE Community Science Workshop, invited plenary American Geophysical Union, invited talk	2022, 2023 2020 2016 Mar 2023 Dec 2022	

European Geosciences Union	May 2022
CSDMS Keynote	May 2022 May 2022
American Geophysical Union, oral presentation	Dec 2021
AfricaArray keynote presentation, virtual	Dec 2021
AIKE keynote presentation, virtual	Dec 2021
Stony Brook University, virtual, YouTube	Oct 2021
University of Alaska, virtual, YouTube	Sept 2021
University of Maryland, in-person	Sept 2021 Sept 2021
German Research Center for Geosciences, virtual, <u>YouTube</u>	Feb 2021
Virginia Tech, Department of Geosciences, virtual	Feb 2021
American Geophysical Union, invited, virtual	Dec 2020
A •	
University of California, Los Angeles, virtual	Apr 2020 Feb 2020
Vertical Land Motions in the Chesapeake Bay Workshop, Hampton, VA	
University of New Mexico, Albuquerque, NM Michigan State University of CIC Distinguished Leatures Foot Leaving MI	Feb 2020
Michigan State University as CIG Distinguished Lecturer, East Lansing, MI	Nov 2019
Grand Valley State University as CIG Distinguished Lecturer, Allendale, MI	Nov 2019
The University of Memphis, Memphis, TN	April 2019
Penn State University, State College, PA	March 2019
University of Delaware, Newark, DE	Nov 2018
International Conference on the East African Rift System, Tanzania	Oct 2018
Appalachian State University, Boone, NC	Sept 2018
University of Witwatersrand, Africa Array Annual Meeting, South Africa	June 2018
EarthCube All-Hands Meeting, Denver, CO	June 2018
Hampton University as NSF CIG Distinguished Lecturer, Hampton, VA	Apr 2018
American Geophysical Union Fall Meeting, San Francisco, CA	Dec 2017
University of Witwatersrand, Africa Array Annual Meeting, South Africa	July 2017
University of Kentucky, Holbrook Lecture, Lexington, KY	April 2017
University of Michigan, The Smith Lecture, Ann Arbor, MI	January 2017
Ardhi University, Tanzania, Departmental Special Seminar	June 2016
Princeton University, Princeton, NJ	Apr 2016
UNAVCO Science Workshop, Boulder, CO	Mar 2016
Office of Foreign Disaster Assistance, USAID, Washington DC	Mar 2016
Volcano Disaster Assistance Program, USGS, Reston, VA	Mar 2016
Global Volcanism Program, Smithsonian Institute, Washington DC	Mar 2016
National Geographic Headquarters, Washington, D.C.	Feb 2016
American Geophysical Union Fall Meeting, San Francisco, CA	Dec 2015
Virginia Tech, Blacksburg, VA, Departmental Colloquium	Mar 2015
Harvard University, Cambridge, MA	Jan 2014
University of California, Los Angeles, CA	Dec 2013
Massachusetts Institute of Technology, Cambridge, MA	Nov 2013
Active Volcanism and Continental Rifting Conference, Rwanda	Nov 2013
NSF GeoPRISMS East African Rift Planning Workshop, New Jersey	Oct 2012
Queen Elizabeth National Park 2012 Research Symposium, Uganda	June 2012
University of Memphis – Memphis, TN	Nov 2011
University of Antananarivo, Madagascar	Aug 2010
IGCP 565 Workshop on separating hydrologic and tectonic signals in	Oct 2010
geodetic data. Reno, NV	

13.0 SKILLS

Language: English, Swahili (professional)

<u>Computer:</u> GAMIT-GLOBK GNSS/GPS processing software maintained at MIT, Generic Mapping Tools, Matlab, TDEFNODE, LaTeX, SHELLS, AWK, vi, USGS Coulomb 3, sparse codes in Fortran (Holt and Haines, 1993; Flesch et al., 2001; Stamps et al., 2010, 2014, 2018, Rui and Stamps, 2019), SELEN 4.0, Visit, Git, CHORDS, Grafana, Jupyter Notebook, GitHub community code development and contributions ASPECT (Computational Infrastructure for Geodynamics Community Code) in C++, USGS dMODELS

<u>Teaching:</u> Certificate in Effective Teaching, Certified Carpentries Instructor, HHMI Inclusive Excellence Faculty Scholar

14.0 PROFESSIONAL AFFILIATIONS/MEMBERSHIPS

- American Geophysical Union
- European Geosciences Union
- Geological Society of America
- Seismological Society of America
- American Association for the Advancement of Science
- International Association for Geoscience Diversity
- Association for Women Geoscientists

15.0 COLLABORATORS AND OTHER AFFILIATIONS

<u>International Collaborators:</u> Giorgio Spada (Universita` di Bologna), Daniele Melini (Istituto Nazionale di Geofisica e Vulcanologia), Max Moorkamp (University of Leicester, UK), Kang-Hyeun Ji (Korea Institute for Geosciences and Mineral Resources), Xu Rui (Sichuan Earthquake Agency), Elifuraha Saria (Ardhi University, Tanzania), Fred Tugume (Geological Survey and Mines Department, Ministry of Energy and Mineral Development of Uganda), Gladys Kianji (University of Nairobi), Stewart Fishwick (University of Leicester), Sascha Brune (GFZ), Jean Mary Kiberu (Makerere University, Uganda), Giampiero Iaffaldano (University of Copenhagen), Charles Williams (GNS, New Zealand), Sæmundur Halldórsson (University of Iceland)

<u>U.S. Collaborators:</u> Maurizio Battaglia (USGS, VDAP), Mong-Han Huang (University of Maryland), Corné Kreemer (University of Nevada, Reno), Estella and Elliot Atekwana (University of California, Davis), Bill Moore (Hampton University), John Naliboff (New Mexico Tech), Suzan Van der Lee (Northwestern University), Mike Taylor (University of Kansas), Andrew Katumwehe (Mid-Western State University), Rob Evans (WHOI), Tyrone Rooney (University of Michigan)

Major Graduate Advisor: Eric Calais, Ecole Normale Supérieure (formerly Purdue University)

Major Postdoctoral Advisor: Brad Hager, Massachusetts Institute of Technology

16.0 REPORTS AND TECHNICAL NON-REFERRED PUBLICATIONS

- [11] NSF GEOPRISMS WORKSHOP REPORT: Janiszewski, Helen; Condit, Cailey; Kitajima, Hiroko; Stamps, D. Sarah (2023): Report of the Structure and Deformation at Plate Boundaries GeoPRISMS Synthesis Workshop. 10.5281/zenodo.7482699
- [10] WHITE PAPER: Evans, Eileen L.; Nikulin, Alex; Ford, Heather A.; Stamps, D. Sarah; Creasy, Neala; Swiatlowski, Jeryln; et al. (2020): An Early Career Investigator Community Vision for the Future NSF Geophysical Facility: Education, Workforce, and Outreach Needs. figshare. Online resource. https://doi.org/10.6084/m9.figshare.12398372.v1
- [9] WHITE PAPER: Ford, Heather A.; Floyd, Michael; Stamps, D. Sarah; Mendoza, Manuel; Bozdag, Ebru; Bowden, Daniel; et al. (2020): An Early Career Investigator Community Vision for the Future

- NSF Geophysical Facility: Data Services Needs. figshare. Online resource. https://doi.org/10.6084/m9.figshare.12398321.v1
- [8] WHITE PAPER: Stamps, D. Sarah; Eilon, Zach; Fan, Wenyuan; Lynner, Colton; Kehoe, Haiyang; Ford, Heather A.; et al. (2020): An Early Career Investigator Community Vision for the Future NSF Geophysical Facility: Instrumentation Services Needs. figshare. Online resource. https://doi.org/10.6084/m9.figshare.12398288.v1
- [7] NSF EARTHCUBE: A Position Paper on EarthCube adoption/promotion of principles embodied in the FAIR acronym for current and future activities, 2019, Rubin, K.H., Kelbert, A., Stamps, D.S., Meier, O., Koskela, R. and the EarthCube Leadership Council
- [6] NSF EARTHCUBE REPORT: Ouida Meyer, D. Sarah Stamps, Lynne Schreiber, and the EarthCube Science Committee, 2018, EarthCube Resources for GEO-CI Workshops, https://doi.org/10.5281/zenodo.3371777
- [5] NSF EARTHCUBE REPORT: David Arctur, Scott Peckham, D. Sarah Stamps, Bob Arko, Janet Fredericks, 2016, AIP Tiger Team Response to the Xenity Architecture Implementation Plan
- [4] NSF EARTHCUBE SCIENCE COMMITTEE REPORT: Aronson E, Bristol S, Burgess AB, Chandrasekar V, Close H, van Eyken T, Ferrini V, Gomez B, Kinkade D, Kelbert A, Martin RL, Ritterbush K, Rubin K, Schmittner A, Slota S, Stamps DS, Stocks K, Tzeng MW, Wiebe P, Wood-Charlson E, 2015, Geoscience 2020: Cyberinfrastructure to reveal the past, comprehend the present, and envision the future, EarthCube Working Paper ECWP-2015-1, dx.doi.org/10.7269/P3MG7MDZ
- [3] WHITE PAPER: Douglas B., R, Bennett, D.S. Stamps, N. Niemi, B. Wang, E. Nissan, M, Oskin, A. Duvall, M.Hamburger, 2015, Current directions of field science education with respect to geodetic technologies, White Paper for Workshop on Future Seismic and Geodetic Facility Needs in the Geosciences, May 4-6, 2015.
- [2] WHITE PAPER: Stamps D.S. et al., 2013, An investigation of rift-parallel surface deformation along the East African Rift System, GeoPRISMS Planning Workshop for East African Rift, Morristown, NJ, 10/25/13-10/27/13.
- [1] WHITE PAPER: Stamps D.S. et al., 2013, An investigation of plate boundary formation in Madagascar, GeoPRISMS Planning Workshop for East African Rift, Morristown, NJ, 10/25/13-10/27/13.

17.0 PEER-REVIEWED PUBLICATIONS AND BOOKS

*GTL graduate student author, **GTL researcher/postdoc authored, ***GTL undergraduate student author ORCID 0000-0002-3531-1752

Statistics from Google Scholar (5/22/2023): Total citations: 1638, H-Index: 18, i10 index: 19 Total Peer-Reviewed Publications: 34 (7 first author, 14 second author, 12 student first author)

- [34] *Niinju E.A., D.S. Stamps, T. Rooney, E.A. Atekwana, T.A. Rajaonarison (in press) Instantaneous 3D tomography-based convection beneath the Rungwe Volcanic Province, East Africa: implications for melt generation, Geophysical Journal International
- [33] *Rajaonarison, T. A., Stamps, D. S., Naliboff, J., Nyblade, A., & *Njinju, E. A. (2023). A Geodynamic Investigation of Plume-Lithosphere Interactions Beneath the East African Rift. *Journal of Geophysical Research: Solid Earth*, e2022JB025800.
- [32] *Daud, N., Stamps, D.S., Battaglia, M., Huang, M.H., Saria, E. and Ji, K.H. (2023) Elucidating the magma plumbing system of Ol Doinyo Lengai (Natron Rift, Tanzania) using Satellite Geodesy and numerical modeling. Journal of Volcanology and Geothermal Research, p.107821, https://doi.org/10.1016/j.jvolgeores.2023.107821

- [31] Brune, Sascha, Jean-Arthur Olive, D. Sarah Stamps, Folarin Kolawole, Susanne Buiter, Roger Buck, (2023), Geodynamics of Rift Initiation and Evolution, *Nature Reviews Earth & Environment:* 1-19/
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18.0 PUBLICATIONS SUBMITTED, IN REVIEW/REVISIONS, OR IN PREPARATION

*GTL graduate student author, **GTL researcher authored, ***GTL undergraduate student author

- *Ntambila, D., D.S. Stamps, M. Battaglia, M-H. Huang, E. Saria, K-H. Ji (re-submitted) Elucidating the Magma Plumbing System of Ol Doinyo Lengai (Natron Rift, Tanzania) Using Satellite Geodesy and Numerical Modeling, *Journal of Volcanology and Geothermal Research*
- **Njinju E.A., D.S. Stamps, T. Rooney, E. Atekwana, *T. Rajaonarison (in revisions) Tomography-Based Convection and Melt Generation Beneath the Rungwe Volcanic Province, East Africa, *Geophysical Journal International*
- Rui, X., D.S. Stamps, M.-L. Chevalier (in prep), Euler-pole Clustering of GNSS Velocities Using Unsupervised Machine Learning in the Southeastern Tibetan Plateau: Block Identification and the Dominance of Sinistral-slip Faults, *Geology*
- Iaffaldano, G., J.M. de Blas, X. Rui, D.S. Stamps, B. Zhao, (in prep) South China motion modified by the 2008 Mw 7.9 Great Wenchuan earthquake, *Sci. Reports*
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19.0 OPEN-ACCESS DATA PRODUCTS, JUPYTER NOTEBOOKS, AND SOFTWARE

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20.0 SELECTED CONFERENCE PROCEEDINGS AND ABSTRACTS

2023

Stamps, D.S. (plenary) Towards Volcanic Hazards Assessment Using Transient Detection in the Natron Rift, Tanzania, GAGE/SAGE 2023 Community Science Workshop

2022

- D.S. Stamps, E. Njinju, A. Kwagalakwe, J. Naliboff, T. Rajaonarison (2022) Continental rifting advances using 3D computational modeling of lithospheric deformation, asthenospheric flow, and deep melt generation with ASPECT, European Geosciences Union Meeting
- D.S. Stamps, E. Njinju, A. Kwagalakwe, J. Naliboff, T. Rajaonarison (2022) Continental rifting advances using 3D computational modeling of lithospheric deformation, asthenospheric flow, and deep melt generation with ASPECT, CSDMS Meeting
- Stamps, D.S., Kreemer, C., Fernandes, R.M.S., Rajaonarison, T.A.A. and Rambolamanana, G., 2022, December. A Revision of East African Rift System Kinematics from GPS Observations and Block Modeling. In *Fall Meeting* 2022. AGU.
- Masungulwa, N.S.D., Stamps, D.S., Ji, K.H. and Saria, E., 2022, December. Transient Signal Detection Using GNSS Measurements of the Active Volcano Ol Doinyo Lengai, Tanzania. In *Fall Meeting 2022*. AGU.
- Williams, K., Stamps, D.S., Austermann, J., Rajaonarison, T.A. and Njinju, E., 2022. Towards an Investigation of the Effects of Dynamic Topography on Vertical Land Motions Along the North American Atlantic Coast. *Authorea Preprints*.
- Njinju, E.A., Stamps, D.S., Rooney, T.O., Atekwana, E.A. and Rajaonarison, T.A., 2022. Tomography-Based Convection and Melt Generation Beneath the Rungwe Volcanic Province, East Africa. *Authorea Preprints*.

D. Sarah Stamps, Estella Atekwana, Eliot Atekwana, et al. The DRIAR Project: Dry-Rifting In the Albertine-Rhino Graben, Uganda. *Authorea*. January 30, 2022.

Stamps, D.S., C. Kreemer, M-H Huang, K Williams, J Duda, W Moore, P. Hensel, R Hippenstiel (2022), Investigating Vertical Land Motions in the Chesapeake Bay of Eastern North America with GPS and InSAR, In *Fall Meeting 2022*. AGU.

Rui Xu, D.S. Stamps, Euler-pole Clustering of GNSS Velocities Using Unsupervised Machine Learning in the Southeastern Tibetan Plateau: Block Identification and the Dominance of Sinistral-slip Faults (2022), In *Fall Meeting 2022*. AGU.

2021

M. Dye, D. S. Stamps, M. Mason, and E. Saria (2021), Toward autonomous detection of anomalous GNSS data via applied unsupervised artificial intelligence, Third International Conference on Transdisciplinary AI (TransAI), 2021, pp. 85-91, doi: 10.1109/TransAI51903.2021.00023.

Stamps, DS, J Gallagher, S Peckham, A Sheehan, N Potter, K Neumiller, E Njinju, M Stoica, EA Easton, D Fuka, D Fuker (2021), Seamless Long-Tail and Big Data Access via the EarthCube Brokering Cyberinfrastructure BALTO, EarthCube Annual Meeting

D.S. Stamps, J.R. Jones, E. Saria, D. Ntambila, M. Daniels, D. Mencin, K.H. Ji, A. Adams (2021), Implementing Real-Time GNSS Monitoring with the EarthCube Cyberinfrastructure CHORDS for Ol Doinyo Lengai, Tanzania, Seismological Society of America (oral presentation)

Stamps, D.S., Shirzaei, M., Troia, G., Sherpa, S., Hensel, P., Moore, W., Lotspeich, R.R., Duda, J., Williams, K., Kreemer, C. and Weiss, J., 2022. Towards a New Baseline of Vertical Land Motions in the Chesapeake Bay Using GNSS and InSAR. *Authorea Preprints*.

2020

Peckham, S, M Stoica, DS Stamps, J Gallagher, N Potter, D Fulker (2020), The BALTO Jupyter Notebook GUI, Jupyter Meets Earth Meeting

Peckham, S, M Stoica, DS Stamps, J Gallagher, N Potter, D Fulker (2020), The BALTO Jupyter Notebook GUI, EarthCube Annual Meeting

Stamps, DS, J Gallagher, S Peckham, A Sheehan, N Potter, K Neumiller, E Njinju, M Stoica, A Easton, D Fuka, D Fulker (2020), Seamless Long-Tail and Big Data Access via the EarthCube Brokering Cyberinfrastructure BALTO, EarthCube Annual Meeting

Njinju E, DS Stamps, K Neumuller, J Gallagher (2020), Lithospheric control of melt generation beneath the Rungwe Volcanic Province and the Malawi Rift, East Africa, EarthCube Annual Meeting

K Neumiller, J. Gallagher, DS Stamps, E. Njinju, Maria, (2020), Remote data processing inside the ASPECT analysis tool, EarthCube Annual Meeting

<u>2</u>019

DS Stamps, JHR Gallagher, SD Peckham, AF Sheehan, N Potter, M Stoica, EA Njinju, ZM Easton, DW Fulker, DR Fuka (2019) The Open-Source EarthCube Cyberinfrastructure BALTO: Applications in Earth Science, AGU Fall Meeting

Jones, JR, DS Stamps, B Aagaard, C Wauthier (2019) Investigation of Volcano-tectonic Interactions in the Natron Rift of the East African Rift System using Numerical Modeling, AGU Fall Meeting

Daniels, MD, SJ Graves, V Chandrasekar, DS Stamps, B Kerkez, C Martin, SR Gooch, JR Jones, MD Bartos (2019) CHORDS: Helping to build the Internet of Things for the Geosciences (IoT-G), AGU Fall Meeting

Rajaonarison, TA, J Naliboff, DS Stamps (2019) The relationship between lithospheric structure and observed deformation centered on the Eastern Branch of the East Africa Rift System, AGU Fall Meeting

Fuka, DR, ME Apple, JHR Gallagher, DW Fulker, N Potter, R Duerr, MB Wagena, E Lingerfelt, MD Daniels, A Ameko, SD Peckham, K Neumiller, A Collick, EM Bock, RR White, DS Stamps, ZM Easton (2019) IoT Sensors and Their Pathway to HPC, AGU Fall Meeting

Njinju, EA, DS Stamps, JHR Gallagher, K Neumiller (2019) Sources of Melt Generation in the Malawi Rift Implemented with ASPECT and the EarthCube Cyberinfrastructure BALTO, AGU Fall Meeting

2018

Stamps, DS, E Saria, M Daniels, D Mencin, JR Jones, D Ntambila, KH Ji (2018) Tanzania Volcano Observatory (TZVOLCANO): Implementing Real-Time GNSS Monitoring with the EarthCube Cyberinfrastructure CHORDS, poster, UNAVCO Science Workshop

Malloy S, M Stoica, DS Stamps, S Peckham, C Meertens (2018) Towards Open Access GNSS/GPS Velocity Solutions at UNAVCO, UNAVCO Science Workshop

Gallagher, J, N Potter, DS Stamps (2018) Using JSON-LD to power dataset search and discovery in the Hyrax data server, AGU Fall Meeting

Daniels M, B Kerkez, V Chandrasekar, S Graves, DS Stamps, A Botnick, C Martin, K Keiser, R Gooch, JR Jones, M Bartos, C Collins (2018) CHORDS: Building the Internet of Things for the Geosciences (IoT-G), Poster, AGU Fall Meeting

Stamps, DS, J Gallagher, S Peckham, A Sheehan, N Potter, M Stoica, S Malloy, E Njinju, ZM Easton, DR Fuka (2018) Towards Brokered Alignment of Long¬Tail Observations (BALTO), iPoster, AGU Fall Meeting

Malloy S, CM Puskas, M Stoica, DS Stamps, D Phillips, S Peckham (2018) Towards Open Access GNSS/GPS Velocity Solutions at UNAVCO, AGU Fall Meeting

Daniels M, B Kerkez, V Chandrasekar, S Graves, DS Stamps, A Botnick, C Martin, K Keiser, R Gooch, JR Jones, M Bartos, C Collins (2018) Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS): Developing interfaces to systems that visualize, process, analyze and archive real-time geoscience data, poster, EarthCube All-Hands Meeting

Njinju, EA, DS Stamps, S Fishwick (2018) Investigating Seismic Anisotropy Beneath the Malawi Rift, East Africa with Geodynamic Modeling, poster, AGU Fall Meeting

Rajaonarison T, DS Stamps, S Fishwick S, Brune, A Glerum (2018) Small-Scale Flow Induced Azimuthal Seismic Anisotropy beneath Madagascar: Implications for Rheology, poster, AGU Fall Meeting

Stamps, DS, J Gallagher, S Peckham, A Sheehan, N Potter, M Stoica, S Malloy, E Njinju, ZM Easton, DR Fuka (2018) Towards Brokered Alignment of Long-Tailed Observations (BALTO), a, poster, EarthCube All-Hands Meeting

2017

Jones, JR, DS Stamps (2017) A case study in graduate student development, EarthCube All-Hands Meeting, 2017, invited talk

Stamps, DS, E. Saria, J.R. Jones, K.H. Ji, M. Daniels, D. Mencin, D. Ntambila (2017) Potential volcanic deformation signals at Ol Doinyo Lengai in 2017: detection and Response, EarthCube All-Hands Meeting

Schobelock, J, DS Stamps, M Pagani, J Garcia, RH Styron, (2017) The Role of Long-Term Tectonic Deformation on the Distribution of Present-Day Seismic Activity in the Caribbean and Central America, AGU Fall Meeting

Stamps, D.S., E Saria, T. Rajaonarison (2017) Advances in the kinematics and dynamics of Africa, AfricaArray Meeting

T Nguyen, D.S. Stamps (2017) Visualizing TZVOLCANO GNSS Data with Grafana via the EarthCube Cyberinfrastructure CHORDS: an Example of Dashboard Creation for the Geosciences, AGU Fall Meeting

Stamps, DS, C. Kreemer, T Rajaonarison (2017) Is Active Tectonics on Madagascar Consistent with Somalian Plate Kinematics?, AGU Fall Meeting

Njinju, E, E Atekwana, DS Stamps, M Abdelsalam, VA Nyalugwe (2017) Evidence for crustal and sub-continental lithospheric mantle decoupling beneath the Malawi Rift, AGU Fall Meeting

Kolawole, F, EA Atekwana, S Malloy, DS Stamps, R Grandin, MG Abdelsalam, K Leseane, EM Shemang (2017) April 3, 2017 Mw 6.5 Moiyabana, Botswana Earthquake resulted from extensional reactivation of Precambrian Limpopo Belt thrust splay: Evidence from potential field data and Differential Interferometric Synthetic Aperture Radar (DInSAR) analyses, AGU Fall Meeting

Jones, JR, DS Stamps, C. Wauthier, MD Daniels, E Saria, Elifuraha, K-H Ji, D Mencin, D Ntambila (2017) Implementing real-time GNSS monitoring to investigate continental rift initiation processes, AGU Fall Meeting

Jones, JR, J Schobelock, TT Nguyen, TA Rajaonarison, S Malloy, EA Njinju, L Guerra, DS Stamps, GB Glesener (2017) A Hands-on Physical Analog Demonstration of Real-Time Volcano Deformation Monitoring with GNSS/GPS, AGU Fall Meeting

Malloy, S. DS Stamps (2017) Implications of Seismically Active Fault Structures in Ankay and Alaotra Regions of Central Madagascar, AGU Fall Meeting Abstracts

Rajaonarison, TA, Stamps, DS, Fishwick, Stewart (2017) Geodynamic Constraints on the Sources of Seismic Anisotropy Beneath Madagascar, AGU Fall Meeting

Muirhead, J, H Lee, SA Kattenhorn, TP Fischer, CJ Ebinger, S Mana, BD Turrin, G Kianji, E Dindi, SW Roecker, SJ Oliva, A Weinstein, DS Stamps (2016) Early-stage continental rifting in East Africa assisted by magma and magmatic Volatiles, AGU Fall Meeting Abstracts

2016

Rajaonarison, T.A., DS Stamps (2016) The Malagasy Lithosphere-Asthenosphere System Constrained by Independent Initial Temperature Conditions: Implications for Extensional Processes, AGU Fall Meeting Abstracts

Jones, JR, DS Stamps (2016) Investigating Stress Interactions Between the Active Ol Doinyo Lengai Volcano and Adjacent Natron Border Fault in a Young Segment of the East African Rift System, AGU Fall Meeting Abstracts

Stamps, DS, E Saria, JR Jones, MD Daniels, D Mencin (2016) Tectono-Magmatic Investigations with Societal Implications: Progress on the Tanzania Volcano Observatory (TZVOLCANO, AGU Fall Meeting Abstracts

Schobelock, J., DS Stamps (2016) Toward a Regional Tectonic Strain Rate Model: A Geodetic Model of the Caribbean and Central America, AGU Fall Meeting Abstracts

Daniels, MD, B Kerkez, V Chandrasekar, SJ Graves, DS Stamps, MJ Dye, K. Keiser, CL Martin, SR Gooch (2016) Using Cloud-Hosted Real-time Data Services for the Geosciences (CHORDS) in a range of geoscience applications, AGU Fall Meeting Abstracts

2015

Kreemer, G. Blewitt, DS Stamps, E. Saria (2015), Plate Tectonics 2.0: Using GPS to Refine Global Crustal Kinematics and Rewrite Textbooks, American Geophysical Union Fall Meeting.

Stamps, DS, T. Rajaonarison, and G. Rambolamanana (2015), Continental Deformation in Madagascar from GNSS Observations (Invited), American Geophysical Union Fall Meeting.

Stamps, DS, W. Bangerth, B. Hager, C. Kreemer, and E. Saria (2015), Kinematics and Dynamics of Observed Along-Rift Surface Motions in the East African Rift System, American Geophysical Union Fall Meeting.

Stamps, DS, W. Bangerth, and B. Hager (2015), Topside Driven 3D Convection Model of the East African Rift System with Comparison to Observed Rift-Parallel Surface Motions, LPI Contributions, 1839, 5019, Caltech.

Stamps, DS, W. Bangerth, and B. Hager (2015), Influence of Edge-Driven 3D Convection on Mantle-Lithosphere Interactions in East Africa, 14th International Workshop on Modelling of Mantle and Lithospheric Dynamics, France.

21.0 PRE-FACULTY CONFERENCES AND WORKSHOPS

Nov 2014	UNAVCO Field Education Workshop, USA
May 2014	ASPECT Hack-a-thon, USA
Dec 2005-14	American Geophysical Union Fall Meeting, USA
July 2012	CIG Mantle-Lithosphere Dynamics Workshop, USA
Jan 2011	ExxonMobil Student Scientist Conference, USA
Jun 2010	AfricaArray Workshop, USA
Aug 2009	Advanced Workshop on Monitoring, Evaluating, and Communicating Seismic and
	Volcanic Hazards in East Africa – Trieste, Italy
May 2009	NSF MARGINS Rupturing Continental Lithosphere Workshop, USA
Apr 2009	European Geosciences Union, Austria
Feb 2009	Purdue Univ. Sigma Xi Research Forum, USA

Dec 2008	Purdue Univ. Ecological Sciences and Engineering Symposium, USA	
Feb 2008-13	Purdue Univ. Earth & Atmospheric Sci. Graduate Student Expo, USA	
Aug 2007	MAERC Research Experiences for Undergraduates, USA	
July 2007	International Conference on the East African Rift - Kampala, Uganda	
Jun 2006-14	UNAVCO Science Workshop, USA (special session leader, 2012)	
Jun 2006	UNAVCO GAMIT/GLOBK Workshop, USA	
Feb 2006	Tennessee Honors Council, USA	

22.0 FIELDWORK EXPERIENCE

Uganda	GNSS deployment, student training, PI	2022
Kenya	GNSS deployment, student training, PI	2017, 2019
Hampton Roads, VA	GNSS campaigns, student training, PI	2018, 2019, 2021
Rainbow Basin, CA	Geologic Mapping course, instructor	2015
Madagascar	GPS campaigns, student training, PI	2010, 2012, 2014
Uganda	GPS campaign, training, PI	2007-2010, 2012, 2014, 2018
La Jolla, California	Sedimentology	2011
Tanzania	GPS campaign, co-leader, PI	2006, 2008, 2012, 2014, 2016,
		2017, 2019
Haiti	GPS campaign, geodesist	2010
Texas and New Mexico Geologic mapping		2010
Black Hills, South Dakota	Geologic mapping	2007
Death Valley, California	Stratigraphy and mapping	2006
Northern Caribbean	GPS campaign	2005
New Madrid Seismic Zone	GPS network maintenance	2005-2007