



CV Associate Professor Rocco Malservisi, Ph.D.

University of South Florida
School of Geosciences
4202 E. Fowler Ave, NES107
Tampa, FL 33620
+1 813 974 1593
+1 813 974 254 (Fax)
rocco@usf.edu
<http://rocco.myweb.usf.edu/>

Education

- 2002 Ph.D. at The Pennsylvania State University, Dept. of Geosciences. Thesis topic: Numerical modeling of lithospheric plate boundary processes. Advisor Prof. K.P. Furlong.
- 1996 Laurea in Fisica (Italian degree in Physics) Università di Bologna, Italy. Thesis title: Modelli dinamici della Terra per il geode associato a contrasti di densità interni (Earth dynamical models for the geoid generated by internal density contrasts). Grades 110/110. Advisor Prof. R. Sabadini.

Research Experience

- 2016- Associate Professor, University of South Florida, School of Geosciences, Tampa, Florida, USA.
- 2009- 2016 Assistant Professor, University of South Florida, Dept. Geology, Tampa, Florida, USA.
- 2007- 2009 Junior Professor (W1) geophysics/geodynamics Ludwig Maximilian University, Munich, Germany.
- 2006- 2011 Adjunct Faculty University of Miami, Dept. of Marine Geology and Geophysics, Miami, Florida, USA.
- 2005- 2006 Assistant Professor (C1) geophysics/geodynamics Ludwig-Maximilians University, Munich, Germany.
- 2002- 2005 Post-doctoral Associated University of Miami Dept. of Marine Geology and Geophysics, Miami, Florida, USA.
- 1997- 2002 Research Assistant at Penn State University Dept. of Geosciences, University Park, PA, USA.
- 1996-1997 Laureato Frequentatore (Visiting researcher) at Università di Bologna Depart. of Geophysics, Bologna, Italy.



Teaching Experience

- 2016- Associate Professor of Lithospheric Dynamics/Geodesy/Natural Hazards at the University of South Florida.
- 2009-2016 Assistant Professor of Lithospheric Dynamics/Geodesy/Natural Hazards at the University of South Florida.
- 2013 Co-teacher course LA-FEM (Lithospheric Applications of Finite Element Method) at University of Utrecht (NL)
- 2010 Teacher at CERG-C Specialization certificate for the assessment and management of geological and climate related risk, Universite de Geneve, CH, lecture on seismic hazards.
- 2005- 2009 Professor of Geodynamics (W1). Different classes undergraduate and graduate level classes on geodynamics, earth system, geodesy and earth processes associated to natural hazards at the Munich Geocentrum (LMU/TUM).
- Fall 2001 Teaching Assistant at Penn State University GEOS203 Physical Processes in Geology.
- Fall 2000 Certificate by Center for Excellence in Learning and Teaching, Penn State University.
- Fall 2000 Teaching Assistant at Penn State University GEOS489 Dynamics of the Earth, University Park, PA, USA.

Grants

- 2015 Dixon T.H. (PI, USF Geosciences), CO-PI: R. Malservisi (USF Geosciences), C. Lembke (USF, CMS) Continental Shelf Geodesy: Development of Low Cost, High Precision Sea Floor Geodetic Systems Based on GPS for Use on Continental Shelves and Shallow Seas, NSF OTIC, recommended for funding on June 19th, 2015, \$822,128.
- 2015 Dixon, T.H. (PI, USF Geosciences), CO-PI: S. Charbonnier, R. Malservisi (USF Geosciences), G. Mattioli (UNAVCO). Collaborative Research RAPID: Nevado del Ruiz Volcano, Colombia Enhancing geodetic observations and digital elevation models in response to recent activity. NSF July 2015-June 2016., award EAR 1546924, \$29450.
- 2014 Germa, A. (PI, USF Geosciences), CO-PI: C. Connor, R. Malservisi, L. Connor, Dynamic Statistical Models to Improve Long-term Volcanic Hazard Assessments, NSF, award EAR 1347899, \$229,116.00.
- 2013 Malservisi, R. (PI, USF Geology), CO-PI: C. Connor, L. Connor (USF Geology), TOPAZ: Volcanic hazard and tectonic uplift assessment, Japan. (FormID 23293). Obayashi Corporation, Nuclear Facilities Division. \$51039. July, 2013-June, 2014.
- 2012 Malservisi, R. (PI, USF Geology), CO-PI: C. Connor, P. Wetmore, L. Connor (USF Geology). Volcano intrusion and deformation investigation applied to volcanic



- hazards in Japan (Form ID: 19339). Obayashi Corporation, Nuclear Facilities Division. \$36,700. October, 2012-July, 2013.
- 2012 Connor, C. (PI, USF Geology), CO-PI: R. Malservisi, P. Wetmore, L. Connor (USF Geology). Interpretation of the results of the 3D MT surveys, gravity and CO₂ surveys conducted at the Karkar geothermal field (Form ID: 16105). \$27,504.
- 2012 Trotz, M. (PI, USF Engineering), M. Stewart, Malservisi, R. (USF Geology)DOE, grant #2104110803, Geochemical Modeling of Wastewater Injection: CO₂ Physical and Geomechanical Modeling Support from USF (addendum). DOE funding. \$ 9089.00.
- 2012 Wetmore, P. (PI, USF Geology), CO-PI Malservisi, R., Slip History of the southern limit of the big band domain of the Pacific North America Plate Boundary. USF Enhancement Grant. January-December 2012, \$18,860.00.
- 2009 Bavarian Elite Promotion Program grant awarded to PhD student Matthias Hackl on the project: Strain rate patterns from satellite based geodetic measurements. (2 years graduate student salary).
- 2008 DFG renewal of Kinematic of transported terrane grant (18 months graduate student salary + €15000.00 Research money) (Grant DFG MA4163/1-2).
- 2007 DFG on "kinematics of transported terrane, a case study: Baja California". (3 years supporting a PhD student (1/2 BATII, ~20000€/yr) and 2 years for a Diploma student (~6000€/yr) plus money for travel and EGPS field work (40,000€). Total grant ~112000€) (Grant DFG MA4163/1-1).
- 2007 Munich RE grant to support a diploma student (analogous to MSc in US) to work on the influence of modeling assumptions on GPS data interpretations. (6 month salary 4800€)
- 2005 BaCaTec grant for collaboration with Prof. Bürgmann (Berkeley) to study creeping faults. (2 yr travel money for students and scientist 9,700€)
- 2001 Penn State Dept. of Geosciences Knopf grant (Outstanding graduate students who wish to pursue an academic career in the study of geology).
- 2001 Penn State Dept. of Geosciences P.D. Krynine Memorial Fund grant to travel to AGU fall meeting.
- 2000 Penn State Dept. of Geosciences P.D. Krynine Memorial Fund grant to travel to AGU fall meeting.
- 1999 Penn State Dept. of Geosciences P.D. Krynine Memorial Fund grant to travel to AGU fall meeting.

Activities:

- 2015-2016 Member of Infrastructure advisory committee of UNAVCO
- 2016 Convener IASPEI Regional Assembly Latin - American and Caribbean Seismological Commission - LACSC June 20th to 22nd, 2016 - San Jose, Costa Rica session Subduction Zone Processes and Science.
- 2015 Convener EGU General assembly 2015 session TS8.4 Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques.
- 2014 Convener EGU General assembly 2014 session TS9.3 Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques.
- 2013 Convener EGU General assembly 2013 session TS9.5 Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques.



- 2012 Member of Panel to evaluate proposal at Office of Science Graduate Fellowship program Basic Science (DOE SCGF BES)
- 2012 Convener EGU General assembly 2012 session TS9.5 Crustal faulting and deformation processes observed by InSAR, GPS and modelling techniques.
- 2011 Convener Fall AGU 2011 session T21A. Birth, Growth, and Maturity of a Continental Margin: Modeling, Observing, and Interpreting the Evolution of a Margin.
- 2011 Chair session S14S3 Plate boundary processes, IASPEI, IUGG General Assembly, June 28-July 7, Melbourne, Australia.
- 2010 Candidate for the UNAVCO Board of directors.
- 2008 Member of extended science team Phase A study DLR Tandem-L mission.
- 2005 Co-Organizer of the NSF sponsored workshop geodynamics of South Island New Zealand, Wellington, New Zealand, 26-29 June 2005.
- 2003 Co-Convener and chairperson of Session TS4.03 "Dynamics of plate boundary fault systems from geological and geodetic data" Joint EGS/AGU/EUG meeting.
- 2002 Co-Convener and chairperson of session "Geodynamics of Transpressional Plate Boundaries: Fiordland, Southern Alps, and Beyond" 2002 Western Pacific AGU.
- 2002 Chairperson of session "Modeling of Deformation and Faulting", 2002, Western Pacific AGU.
- 2002 Co-Organizer joint NSF/New Zealand workshop "Dynamics of Fiordland, New Zealand", Dunedin, New Zealand, 2002.
- 1998 Chairperson session "Geodynamics of the lithosphere: images and models of active tectonics" EGS XXIII General Assembly.

Students:

- ⇒ Mary Njoroge, current PhD student, USF, Kinematics of Nubia Plate. Finished a MSc on the same topic in August 2015. Currently a PhD student at USF.
- ⇒ Surui Xie, current PhD student at USF, Shallow water geodesy, (codvisor Dr. Dixon).
- ⇒ Fanghui Deng, modeling magma transportation for dynamic volcanic hazards maps.
- ⇒ Makan Abdollahzadeh Karegar, current PhD student, USF, Deformation due to CO2 sequestration and delta loading (coadvisor Dr. Dixon).
- ⇒ Ophelia George, current PhD student, USF, Deformation due to magma underplating and volcanic hazards of Dominica (coadvisor Dr. Connor). Defending in August 2016.
- ⇒ Nicholas Voss, current PhD student, USF, Postseismic deformation of Nicoya Peninsula.
- ⇒ Ophelia George, current PhD student (defending end of August), USF, Long-term deformation of magmatic intrusion.
- ⇒ Jose Armando Saballos, PhD student, USF, Short and Long Term Volcano Instability Studies at Concepción Volcano, Nicaragua. Graduated 2013.

- ⇒ Christina Plattner, PhD student, Geodynamics of Baja California. Graduated on March 2009. Awarded Honorable Mention MARGIN topic student presentation Fall AGU Meeting 2006. Awarded Best student Presentation Fall AGU Meeting 2008 Section tectonophysics. Faculty at FAU.
- ⇒ Matthias Hackl, PhD student, Analysis of strain field from geodetic network and GPS time series analysis. (currently officially supervised by Prof. Bachdatze but in reality still working with me). Awarded 2 year stipendium for graduate promotion according to the Bavarian law of elite promotion (BayEFG) on the project related to the study of strain field from GPS data measurement. Currently at Alliaz RE.
- ⇒ Robin Chacko, MSc student at TUM/ESPACE program, Rigidity of the Nubia Plate, graduated September 2008.
- ⇒ Matthias Hackl, Diploma student LMU, Influence of modeling assumptions on the GPS data interpretation, graduated in April 2008.
- ⇒ Stephan Eder, Diploma geophysics LMU, Sensitivity analysis of viscoelastic model for geodetic fault rate, graduated in November 2007.
- ⇒ Jörg Trebeck, BSc Geophysics LMU, Rigid plate motion of the Sierra Nevada Block, USA, August 2009.
- ⇒ Cornelia Rasmussen, BSc Geophysics LMU, Carbonate seismic velocity as function of the porosity, August 2009.

Students co-supervised during my PhD and Post-Doctoral time:

Gans at PSU; Schmalzle and LaFemina at UM; Schaber, Iaffaldano at LMU, Zao at TUM.

Publications

Submitted

Chierici F., Iannaccone G., Pignagnoli L., Guardato Sergio, Locritani M., Embriaco D., Donnarumma G.P., Rodgers Mel, **Malservisi R.**, Beranzoli L. A new method to assess long term sea-bottom vertical displacement in shallow water from bottom pressure sensor: application to Campi Flegrei, Southern Italy. Submitted to *JGR Oceans*.

Yan Jiang, Z. Liu, E.E. Davis, S.Y. Schwartz, T.H. Dixon, N. Voss, R. Malservisi, M. Protti. Slow Slip to Trench at Nicoya Peninsula Observed with Onshore GPS and Seafloor Pressure Sensors. Submitted to *Nature Geosciences*.

2016

George, O., **R. Malservisi**, R. Govers, C. B. Connor, and L. J. Connor (2015). Is uplift of volcano clusters in the Tohoku Volcanic Arc, Japan driven by (sub)crustal ponding? A geodynamic modeling study. In press *JGR*.

2015

Plattner, C., H. Fattahi, **R. Malservisi**, F. Amelung, A. Verdecchia, and T.H. Dixon (2015). Earthquake cycle deformation at the Ballenas Transform, Gulf of California, Mexico,

from InSAR and GPS measurements, Proceedings of the FRINGE Workshop, Frascati, Italy, 23–27 March 2015, ESA SP-731.

- Njoroge, M., **R. Malservisi**, D. Voytenko, M. Hackl (2015). Is Nubia Plate rigid? A geodetic study of the relative motion of different cratonic areas within Africa, IAG Symposium, p 1-9, doi:10.1007/1345_2015_212.
- Marshall, A., C.B. Connor, S. Kruse, **R. Malservisi**, J. Richardson, L. Courtland, L. Connor, J. Wilson, M. Karegar (2015) Subsurface structure of a maar-diatreme and associated tuff ring from a high-resolution geophysical survey, Rattlesnake Crater, Arizona, submitted to *J. Volcan. Geotherm. Res.*, 304, 253-264, doi:10.1016/j.jvolgeores.2015.09.006.
- Plattner, C., **R. Malservisi**, F. Amelung, T. H. Dixon, M. Hackl, A. Verdecchia, P. Lonsdale, F. Suarez-Vidal, and J. Gonzalez-Garcia (2015), Space geodetic observation of the deformation cycle across the Ballenas Transform, Gulf of California, *J. Geophys. Res. Solid Earth*, 120, doi:10.1002/2015JB011959.
- Karegar, M.A., T.H. Dixon, **R. Malservisi**, Q. Yang, S.A. Hossaini, S.D., Hovorka (2015). GPS-based Monitoring of Surface Deformation Associated with CO₂ Injection at an Enhanced Oil Recovery Site, *Int. J. Greenhouse Gas Control.*, 41, 116-126, doi:10.1016/j.ijggc.2015.07.006.
- Malservisi, R.**, S. Schwartz, N. Voss, M. Protti, V. Gonzales, T.H. Dixon, Y. Jiang, A.V. Newman, J. A. Richardson, J.I. Walter, D. Voytenko (2015). Multiscale postseismic behavior on a mega-thrust: the 2012 Nicoya earthquake, Costa Rica, *Geochem. Geophys. Geosyst.*, 16(6), 1848-1864, doi:10.1002/2015GC005794.
- Karegar, M.A., T.H. Dixon, **R. Malservisi**, (2015). A Three-Dimensional Surface Velocity Field for the Mississippi Delta: Implications for Coastal Restoration and Flood Potential, *Geology*, 43, 519-522, doi:10.1130/G36598.1.
- White, J., A. Karakhanian , C. Connor , L. Connor , J. Hughes , **R. Malservisi** , P. Wetmore, (2015). Coupling geophysical investigation with hydrothermal modeling to constrain the enthalpy classification of a potential geothermal resource, *J. Volc., Geotherm. Res.*, 298, 59-70, doi:10.1016/j.jvolgeores.2015.03.020.
- 2014**
- Dixon, T.H., Y. Jiang, **R. Malservisi**, R. McCaffrey, N. Voss, M. Protti, V. Gonzalez (2014). Earthquake and tsunami forecasts: Relation of slow slip events to subsequent earthquake rupture, *Proc. Nat. Ac. Sc.*, 111(48), 17039-17044, doi: 10.1073/pnas.1412299111.
- Saballos, J.A., V. Conde, **R. Malservisi**, C.B. Connor, J. Alvarez, A. Munoz, (2014). Relatively short-term correlation among deformation, degassing, and seismicity: a case study from Concepcion volcano, Nicaragua, *Bulletin of Volcanology*, 76:843, DOI 10.1007/s00445-014-0843-5.
- Protti, M., V. Gonzales, A.V. Newman, T.H. Dixon, S.Y. Schwartz, J.S. Marshall, L. Feng, J.I. Walter, **R. Malservisi**, S. Owen (2014). Nicoya earthquake rupture anticipated by geodetic measurement of the locked plate interface, *Nature Geoscience*, doi:10.1038/ngeo2038.

Wenliang, Z., A. Falk, T.H. Dixon, W. Shimon, **R. Malservisi** (2014). A method for estimating ice mass loss from relative InSAR observations: Application to the Vatnajökull ice cap, Iceland, *Geochem. Geophys. Geosyst.*, 15, 108-120, doi: 10.1002/2013GC004936.

Saballos, Jose A., **R. Malservisi**, C. B. Connor, P. C. La Femina, P. H. Wetmore (2014). Gravity and Geodesy of Concepción volcano, Nicaragua, *Geological Society of America Special Papers* 498, 77-88, doi:10.1130/2013.2498(05).

2013

Hackl, M., **R. Malservisi**, U. Hugentobler, Y. Jiang (2013). Velocity covariance in the presence of anisotropic time correlated noise and transient events in GPS time series, *J. of Geodyn.*, 72, 36-45. doi:10.1016/j.jog.2013.08.007.

Malservisi R., U. Ugentobler, R. Wonnacott, M. Hackl (2013), How rigid is a rigid plate? Geodetic constraint from the TrigNet CGPS network, South Africa , *Geophys J. Int.*, 192, 918-928, doi: 10.1093/gji/ggs081.

2011

Hackl, M., **R. Malservisi**, U. Hugentobler, R. Wonnacott (2011). Estimation of the velocity uncertainties from GPS time series: Examples from the analysis of the South African TrigNet network, *J. Geophys. Res.*, 116, B11404, doi:10.1029/2010JB008142.

2010

Plattner, C., **R. Malservisi**, K.P. Furlong, R. Govers, (2010). Development of the Eastern California Shear Zone – Walker Lane Belt: Effect of pre-existing weakness in the Basin and Range?, *Tectonophysics*, vol. 485, no. 1-4, pp.78-84.

2009

Hackl, M., **R. Malservisi**, S. Wdowinski (2009). Strain patterns from dense GPS networks, *Nat. Haz. Earth Syst. Sci.*, 9(4), 1177-1187.

Schaber, K, H.P. Bunge, B.S.A. Schuberth, **Malservisi R.**, A. Horbach (2009). Stability of the rotation axis in high-resolution mantle circulation models; weak polar wander despite strong core heating, *Geochemistry, Geophysics, Geosystems*, vol. 10, no. 11, Citation Q11W04.

Plattner, C., **R. Malservisi**, R. Govers (2009). On the plate boundary forces that drive and resist the Baja California motion, *Geology*, vol. 37, no. 4, pp.359-362.

2007

Plattner, C., **R. Malservisi**, T.H. Dixon, G.F. Sella, P. Lafemina, J. Fletcher, and F. Suarez-Vidal (2007). New constraints on relative motion between the Pacific plate and Baja California microplate (Mexico) from GPS measurements., *Geophys. J. Int.*, 170, 1373-1380, 2007.

Scharrer, K., **R. Malservisi**, C. Mayer, O. Spieler, and U. Münzer (2007). Monitoring subglacial volcanic activity using a SAR updated GIS - Recent results from Vatnajökull ice cap, Nat. Hazard Earth Sys., 7,717-722.

2006

Schmalzle, G., T.H. Dixon, **R. Malservisi**, R. Govers (2006). Strain Accumulation across the Carrizo Segment of the San Andreas Fault, California: Impact of Laterally Varying Crustal Properties. J. Geophys. Res., 111, doi:10.1029/2005JB003843.

2005

Malservisi, R., C. Gans, K.P. Furlong (2005). Microseismicity and Creeping Faults: Hints from Modeling the Hayward Fault, California (USA). EPSL, 234, 421-435.

La Femina, P.C., T.H. Dixon, **R. Malservisi**, T. Arnadottir, E. Sturkell, F. Sigmundsson, P. Einarsson (2005). Geodetic GPS Measurement in South Iceland: Strain accumulation and partitioning in a propagating ridge system, J. Geophys. Res., Vol 110 (B11), B11405, doi:10.1029/2005JB003675.

2004

Dixon, J.E., T.H. Dixon, D.R. Bell, **R. Malservisi** (2004). Lateral Variation in Upper Mantle Viscosity: Role of Water, Earth Plan. Sci. Lett., 222, 451-467.

Gans C. R., K. P. Furlong, **R. Malservisi** (2004). Fault creep and microseismicity on the Hayward fault, California: Implications for asperity size, Geophys. Res. Lett., 30, doi:10.1029/2003GL017904.

Furlong, K.P., **R. Malservisi**, C. Gans (2004). Imaging patterns of fault creep: implications for earthquake on the Hayward Fault, in Open-File-Report –US Geological Survey, Report: OF2004-1424, edited by M.L. Zoback, US Geological Survey, USA, ISBN:0196-1497.

2003

Malservisi R., T.H. Dixon, P.C. LaFemina, K.P. Furlong (2003). Estimating the Holocene slip rate of the Wasatch fault zone, Utah, from geodetic data: earthquake cycle effects *Geoph. Res. Lett.*, 30, 1673, doi:101029/2003GL017408.

Malservisi R., K.P. Furlong, H. Anderson (2003). Dynamic uplift in a transpressional regime: Numerical simulation of the subduction area of Fiordland, New Zealand., *Earth and Planetary Science Lett.*, 206, 349-364.

Malservisi R., C. Gans, K.P. Furlong (2003). Numerical modeling of creeping faults and implications for the Hayward fault, California, *Tectonophysics*, 361, 121-137.

Furlong, K.P., C. Gans., **R. Malservisi** (2003). Modeling fault creep on the Hayward Fault and implications of seismicity for defining pattern of fault creep, in Open File Report US Geological Survey, Report: OF 03-0485, edited by D. a. Ponce, US Geological Survey, USA, ISBN: 0196-1497.

2002

Dixon, T., J. Decaix, F. Farina, K.P., Furlong, **R. Malservisi**, R. Bennett, F. Suarez Vidal, J. Fletcher, J. Lee (2002). Present-day slip rate for the Agua Blanca and San Miguel-



Vallencitos faults, Northern Baja California, Mexico: influence of rheological model and seismic cycle effects, *JGR*, 107 2226m 10.1029/2000JB000099.

2001

Malservisi R., K.P. Furlong, T. Dixon (2001). Dynamics of the Eastern California Shear Zone: influence of the earthquake cycle and lithospheric rheology on the surface velocity field, *Geoph. Res. Lett.*, 28, 2731-3734.

Furlong, K.P., S.D. Sheaffer, and **R. Malservisi** (2001). Thermal-Rheological Controls on Deformation within Oceanic Transforms. In . R.E. Holdsworth, R.A. Strachan, J.F. Maglaughlin, and R.J. Knipe (eds), *The Nature and Tectonic Significance of Fault-Zone Weakening*, Geol. Soc., London, Spec. Pub. 186, 65-83.

Technical Reports

Neil C., M. Apted, W. Aspinall, M. Cloos, C. Connor, L. Connor, S. Engwell, O. Jaquet, J. Kandlbauer, N. Litchfield, S. Mahony, **R. Malservisi**, L. Wallace, K. Berryman, E. Scourse, S. Sparks and M. Stirling (2015). TOPAZ Project: Long-term Tectonic Hazard to Geological Repositories: Toward practical application of the ITM-TOPAZ methodology Nuclear Waste Organisation of Japan (NUMO), Report No. NUMO-TR-15-XX, 199 pps.

Okwen, R., **R. Malservisi**, M. Stewart, M. Trotz, J. Cunningham (2012). Assesment of geomechanical integrity of the anhydrite caprock at PPS deep well injection site, prepared for ECT & TECO Energy.

Invited Talks and Other Presentations

R. Malservisi, S. Schwartz, N. Voss, M. Protti, V. Gonzales, T.H. Dixon, Y. Jiang, A.V. Newman, J.I. Walter, J. Richardson, D. Voytenko. Observing multiscale temporal behavior on a megathrust: Transient behavior and the 2012 Mw 7.6 seismic event. 2015 GeoPRISMS Theoretical and Experimental Institute on Subduction Cycles and Deformation, Redondo Beach, CA, October 12-14, 2015.

Malservisi, R., S. Schwartz, N. Voss, M. Protti, V. Gonzalez, T. Dixon, Y. Jiang, A. Newman, J. Richardson, J. Walter, D. Voytenko, Observing Multiscale temporal behavior on a mega-thrust: Nicoya Earthquake cycle and 2012 megathrust event. International Union Geodesy and Geophysics, Prague, CZ, June 2015.

Njoroge, M., **R. Malservisi**, U. Hugentobler, M. Mokhtari, D. Voytenko, Is Nubia pate rigid? A geodetic study of the relative motion of different cratonic areas within Africa, IAG commission 1 symposium: reference frame for applications in geodetic science, 13-17 October, Luxembourg, 2014.

Dixon T. H., Y. Jiang, **R. Malservisi**, M. Protti, V. Gonzalez, Comparing Pre-, Co- and Post-Seismic Offsets Measured by Continuous GPS for the September 5, 2012 Costa Rica Earthquake. Abstract T34B-04, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.

Malservisi, R., T H Dixon, M Protti, V Gonzales, S Y Schwartz, A V Newman, S R McNutt, Co- and Post-seismic deformation after the 2012 Mw 7.6 Costa Rica Earthquake from Continuous GPS observations, Abstract T54-A01, Meeting of Americas, May 2013, Cancun, Mx.

- Malservisi, R.,** C.B. Connor, L. Connor, Volcano-arc model for linked volcanism, uplift, and exhumation using GTecton, ITM-Topaz Project Team Meeting, NUMO Offices, Tokyo, Japan, Thursday 25th July and Friday 26th July 2013.
- Malservisi, R.,** C.B. Connor, O. George, R. Govers, Magmatic underplating, uplift and erosion models, ITM-Topaz Project Team Meeting, University of South Florida, Tampa, USA, Thursday 14th November and Friday 15th November 2013.
- Malservisi, R.,** Baja Plate rigidity and earthquake cycle, NAU geology colloquium Series, October 2012.
- Malservisi, R.,** U. Hugentobler, R. Wonnacott, M. Hackl, How Rigid is a Rigid Plate? Geodetic Constraints Looking at Nubia from the South, FAU Geosciences Colloquium Series, March 2012.
- Malservisi, R.,** C. Plattner, M. Hackl, Earthquake cycle in Central Gulf of California: what we can see from geodetic observations, Penn State Geodynamic Seminar, March 2010.
- Plattner C., **Malservisi R.,** F. Amelung, Deformation in the Central Gulf of California from Geodetic data, *Eos Trans. AGU*, 90(52), Invited Talk, Fall Meet. Suppl., Abstract T33E-06.
- Malservisi, R.,** U. Hugentobler, R. Wonnacott, R. Chako, How rigid is a rigid plate? Geodetic constraint from the TrigNet CGPS network, South Africa, invited seminar at 1st GNSS Workshop Hermanus Magnetic Observatory, Hermanus, Western Cape, South Africa, January 2009.
- Plattner, C., **R. Malservisi,** R. Govers, Dynamic effects of micro-plate transfer: Lessons from Baja California, MX, invited talk, IASPEI General assembly, 10-16 January, 2009, Cape Town, South Africa.
- Malservisi, R.,** U. Hugentobler, R. Wonnacott, R. Chako, How rigid is a rigid plate? Kinematic constraint from the TrigNet data, South Africa, 4th Annual AfricaArray workshop, University of the Witwatersrand, Johannesburg, South Africa, June 17-18, 2008.
- Malservisi, R.,** C. Plattner, S. Eder, Modeling geodetic fault rate, invited talk at the ETH department weekly seminar, Zurich, Switzerland, November 2007.
- Plattner C., **R. Malservisi,** R. Govers, Dynamic effect of the motion of Baja California, invited talk weekly seminar at CICESE, Ensenada, Mexico, October 2007.
- Malservisi, R.,** C. Plattner, Comparing GPS and InSar in Northern Baja California, invited talk at the weekly seminar of DLR/TUM, March 2007.
- Malservisi, R.,** K.P. Furlong, T.H. Dixon, Effects of lithospheric model assumptions on the interpretation of geodetic data, EGU06-A-04263, EGU General Assembly, Wien April 2006.
- Plattner C., **R. Malservisi,** T.H. Dixon, P. LaFemina, J. Fletcher, F. Suarez-Vidal, Implications of the Baja California (Mexico)/ Pacific coupling on the western hemisphere plate kinematics, Margin-RCL workshop, Ensenada, Mexico, 9-13 January 2006.
- Malservisi, R.,** J. Decaix, T.H. Dixon, C.R. Gans, K.P. Furlong, P.C. Lafemina, Interpreting GPS data: influence of modeling assumptions, Dept of Geosciences Victoria University, Wellington, New Zealand, June 2003.
- Malservisi, R.,** K.P. Furlong, C. Gans, Creeping Fault e microsismicita', Seminar at Dept of geophysics at University of Bologna, fall 2002.



Malservisi, R., K.P. Furlong, H. Anderson, Fiordland, New Zealand, a corner subducted, Seminar at Dept of geophysics at University of Bologna, fall 2002.

Malservisi, R., K.P. Furlong, H. Anderson, Dynamics of Fiordland. Invited talk at geophysics seminar at University of Otago, New Zealand, May 2001.

International Meeting Presentations

2016

Iannaccone G., P. De Martino, F. Chierici, L. Pignagnoli, S. Guardato, **R. Malservisi**, L. Beranzoli, G. Donnarumma. Monitoring Shallow Water Vertical Seafloor Displacement: a Challenge for Seafloor Geodesy. AGU Fall Meeting, San Francisco, CA, December, 12-16, 2014.

Malservisi R., F. Chierici, G. Iannaccone, S. Guardato, L. Pignagnoli, M. Locritani, D. Embriaco, G. Donnarumma, M. Rodgers, L. Beranzoli. A new method to assess long term small sea-bottom vertical displacement in shallow water from bottom pressure sensor: the case of Campi Flegrei, Southern Italy. AGU Fall Meeting, San Francisco, CA, December, 12-16, 2014.

Voss N., **R. Malservisi**, T.H. Dixon, M. Protti. Surface deformation due to slow slip source considering a non-elastic medium. AGU Fall Meeting, San Francisco, CA, December, 12-16, 2014.

Deng F., **R. Malservisi**, C.B. Connor, A. Germa, L. Connor. Numerical Modeling of Magma Transport In Distributed Volcanic Fields. AGU Fall Meeting, San Francisco, CA, December, 12-16, 2014.

Voss N., **R. Malservisi**, Z. Liu, T.H. Dixon, M. Protti, V. Gonzales, S. Schwartz, Y. Jiang, Slip mode segmentation of the megathrust beneath Nicoya Peninsula, Costa Rica, European Geosciences Union, General Assembly, Vienna, Austria, April 17-22, 2016.

N. Voss, T.H. Dixon, Z. Liu, **R. Malservisi**, M. Protti, V. Gonzalez, S. Schwartz, Slow Slip Events and the earthquake cycle beneath Nicoya Peninsula, Costa Rica, IASPEI Regional Assembly Latin - American and Caribbean Seismological Commission - LACSC June 20th to 22nd, 2016 - San Jose, Costa Rica.

2015

Germa, A., S. Charbonnier, C. Connor, L. Connor, **R. Malservisi**, S. Tavaréz. A multi-disciplinary method for the understanding of melt distribution in the subsurface at distributed volcanic fields. International Union Geodesy and Geophysics, Prague, CZ, June 2015.

Njoroge, M., **R. Malservisi**, D. Voytenko. How Rigid are cratons? Relative Motion of cratons in Nubia Plate. International Union Geodesy and Geophysics, Prague, CZ, June 2015.

Malservisi, R., N. Voss, S. Schwartz, M. Protti, V. Gonzales, T.H. Dixon, Y. Jiang, A. Newman, J. Walter, J. Richardson, D. Voytenko, Multiscale postseismic behaviour on a mega thrust: the 2012 Nicoya Earthquake, Costa Rica, European Geosciences Union, General Assembly, Vienna, Austria, April 12-17, 2015.

Germa, A., L. Connor, C. Connor, **R. Malservisi**, Subsurface magma pathways inferred from statistical analysis of volcanic vent distribution and numerical model of magma ascent, European Geosciences Union, General Assembly, Vienna, Austria, April 12-17, 2015.

2014



- Voss, N., T. Dixon, **R. Malservisi**, Y. Jiang, M. Protti, Stress evolution within the seismogenic zone due to Slow Slip Events, Nicoya Peninsula, Costa Rica, Abstract S53C-4518, AGU Fall Meeting, San Francisco, CA, December, 15-19, 2014.
- Njoroge, M., **R. Malservisi**, U. Hugentobler, Is Nubia plate rigid? A geodetic study of the relative motion of different cratonic areas within Africa, Abstract G21A-0438, AGU Fall Meeting, San Francisco, CA, December, 15-19, 2014.
- Jiang, Y., R. McCaffrey, T. Dixon, R. Malservisi, M. Protti, Ten Years of Slow Slip Events Observed by cGPS Network in the Nicoya Peninsula, Costa Rica, Abstract T51A-4584, AGU Fall Meeting, San Francisco, CA, December, 15-19, 2014.
- Karegar, M.A., T. Dixon, **R. Malservisi**, GPS analysis of ground surface deformation in response to 2011 drought in Texas, Abstract G23B-0487, AGU Fall Meeting, San Francisco, CA, December, 15-19, 2014.
- George, O., J. Latchman, C. Connor, **R. Malservisi**, L. Connor, Combining Geological and Geophysical Data in Volcanic Hazard Estimation for Dominica, Lesser Antilles, Abstract V41B-4817, AGU Fall Meeting, San Francisco, CA, December, 15-19, 2014.
- Marshall, A., S. Kruse, C. Connor, **R. Malservisi**, High resolution geophysical surveys and modelling to improve understanding of the maar-diatreme and surrounding tuff ring at Rattlesnake Crater, San Francisco Volcanic Field, Arizona, 5th Maar Conference, Queretaro, Mx, 17-22 November, 2014.
- Newman, A.V., M. Protti, C. Kriakopoulos, L. Feng, T. Dixon, **R. Malservisi**, J. Walter, Z. Peng, S. Swartz, J. Marshall, Completing the cycle? Near-field observations of interseismic coupling, megathrust rupture, postseismic response, and recovery of interface coupling along the Nicoya Peninsula of Costa Rica, GSA annual meeting, Vancouver, BC. October 19-22, 2014.
- Malservisi R.**, T. H. Dixon, Y. Jiang, N. Voss, A. V. Newman, C. Kyriakopoulos, J. I. Walter, M. Protti, V. Gonzales, Spatial and temporal evolution of fault slip and deformation associated with the MW 7.6 September 5th 2012 Nicoya Megathrust Earthquake. Abstract EGU2014-8685, EGU General Assembly, Vienna, April 2014.
- Richardson J., C. Connor, R. Malservisi, J. Bleacher, L. Connor, LiDAR observations of an Earth magmatic plumbing system as an analog for Venus and Mars distributed volcanism. Abstract EGU2014-15162, EGU General Assembly, Vienna, April 2014.
- Newman A.V., C. Kyriakopoulos, L. Feng, **R. Malservisi**, T. H. Dixon, S. Y. Schwartz, J. M. Protti, V Gonzalez, Patterns of late-interseismic and coseismic locking and release along the subduction megathrust: the case of the 2012 MW 7.6 Nicoya earthquake in Costa Rica., Abstract EGU2014-8979, EGU General Assembly, Vienna, April 2014.
- Njoroge, M., **R. Malservisi**, U. Hugentobler, and D. Voytenko, Relative Motion of Africa Plate with Respect to South African Kalahari Craton. Abstract EGU2014-12196, EGU General Assembly, Vienna, April 2014.
- George, O.A., J. Latchman, **R. Malservisi**, C. Connor, L. Connor, Using Spatial Density Estimates to Assess Volcanic Hazards in Dominica, Lesser Antilles. Seismological Research Letters, 85, 2, 2014, Seismological Society of America Annual Meeting, Anchorage, 2014.



Karegar M.A, Dixon T.H, Yang Q., **Malservisi R.**, Hosseini S.A., “Application of GPS precise positioning for MVA of CCS in an EOR field in Texas”, 13th Annual Carbon Capture Utilization and Storage Conference, 28 April - 1 May 2014.

2013

- Newman A.V., M Protti, V M Gonzalez, T H Dixon, S Y Schwartz, L Feng, Z Peng, J Marshall, **R Malservisi**, S E Owen, Success! Detailed Pre-event Analysis Identified the Slip Area and Magnitude of the Sept. 2012 MW 7.6 Nicoya Earthquake, Abstract S43-D02, Meeting of Americas, May 2013, Cancun, Mx.
- Germa, A., C. B. Connor, L. Connor, **R. Malservisi**, Development and relationship of monogenetic and polygenetic volcanic fields in time and space: from field observations to numerical modeling. Abstract 1W_1C-P13. IACVEI Scientific Assembly, Kagoshima, Japan, July 2013.
- Karegar M.A., Yang Q., Dixon T.H., **Malservisi R.**, Hosseini S. A., GPS-based CCS MVA: Monitoring and Modeling Surface Deformation at the CO₂-EOR in Hasting, TX”, U.S. Department of Energy (DOE), Carbon Storage R&D Project Review Meeting, Developing the Technologies and Infrastructure for CCS, August 20-22, 2013.
- Kirscher, U., Zubovich, A., Mikolaichuk, A., **Malservisi, R.**, Hackl, M., Bachtadse, V., Rigid block model vs. continuous deformation within continents GPS and paleomagnetic data from Kyrgyzstan, Central Asia. Abstract 1.10-12, IAGA Scientific Assembly, Yucatan MX, August, 2013.
- Germa, A., C. Connor, L. Connor, **R. Malservisi**, Development and relationship of monogenetic and polygenetic volcanic fields in time and space. Abstract EGU2013-1025, EGU General Assembly, Vienna, Austria. 2013.
- Walter, J.I., Z. Peng, X. Meng, C. Kyriakopoulos, A. V. Newman, **R. Malservisi**, L. Feng, S. Y. Schwartz, T. H. Dixon, M. Protti, Z. Kannan, Spatio-temporal patterns of post-earthquake seismicity and afterslip following the 5 September 2012 (M_w 7.6) Nicoya Peninsula earthquake. Abstract G23B-0788, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.
- R. Malservisi**, Yan Jiang; Timothy H. Dixon; Marino Protti; Victor Gonzalez; Andrew V. Newman, Evolution of Shallow Aseismic Slip Around the MW 7.6 September 5th 2012 Nicoya Megathrust Earthquake. Abstract G23B-0791, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.
- Q. Yang, M. Abdollahzadeh, T. H. Dixon, **R. Malservisi**, S. A. Hosseini, Modeling surface deformation due to CO₂ injection at an enhanced oil recovery field in Texas. Abstract GC23A-0882, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.
- Germa A., C. Connor, L. Connor, **R. Malservisi**, A New Way to estimate volcanic hazards and present multi-hazard maps. Abstract V23B-2811, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.
- Abdollahzadeh, M., T. H. Dixon, **R. Malservisi**, Geodetic subsidence rate in coastal Louisiana. Abstract EP31A-0834, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.
- Kyriakopoulos C., A. V. Newman, **R. Malservisi**, T. H. Dixon, J. I. Walter, M. Protti, V. Gonzalez, Geodetic and Structural Constraints on Locking and Failure Around the 5 September 2012 Nicoya (M_w7.6), Costa Rica Earthquake. Abstract G31C-04, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.



George O., **R. Malservisi**, R. M. Govers, C. Connor, L. Connor, A finite element modeling investigation on the effects of magma underplating on topographic variation and exhumation rates over long time scales. Abstract T31D-2557, 2013 Fall Meeting, AGU, San Francisco, Calif., Dec. 2013.

2012

Wetmore, P., **R. Malservisi**, J. Wilson, B. Ferwerda, H. Alsleben, Kinematics of Displacement on the Central and Western Agua Blanca and Santo Tomas Faults, Baja California, Mexico, 2012 SSA Meeting, San Diego, CA, 17-19 April. 2012.

M. Hackl, **R. Malservisi**, U. Hugentobler, and Y. Jiang, Detection of transients in GPS time series based on covariance analyses of the rate, Abstract EGU2012-7850-1, EGU General Assembly, Vienna, Austria. 2012.

W. Zaho, F. Amelung, S. Wdowinsky, T.H. Dixon, **R. Malservisi**, Rapid retreat of the Vatnajokull ice cap, Iceland, constrained by synthetic aperture radar interferometry, AGU Fall Meeting which is 3-7 December 2012, San Francisco, California.

Malservisi, R., C. Plattner, M. Hackl, F. Suarez-Vidal, Implication of the Central Gulf of California (MX) Earthquake cycle in understanding continental plate boundary rheology, 2012 AGU Fall Meeting which is 3-7 December 2012, San Francisco, California.

2011

Malservisi, R., Dragging Terranes from below: How oblique subduction of transform faults could couple Baja California and Pacific, Abstract T21A-2317 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec. 2011.

Hackl, M., **R. Malservisi**, U. Hugentobler, Time Correlated Noise and Transients in GPS Time Series, Abstract G31A-0945 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec. 2011.

Hackl, M., **R. Malservisi**, U. Hugentobler, Characterisation of time correlated noise in large GPS networks, Abstract 1689 presented at IUGG General Assembly, June 28-July 7, Melbourne, Australia. 2011.

Malservisi, R., U. Hugentobler, M. Hackl, R. Wonnacott, Constraining Nubia plate rigidity from Continuous GPS observations, Abstract 4186 presented at IUGG General Assembly, June 28-July 7, Melbourne, Australia. 2011.

Malservisi, R., M. Hackl, P.C. La Femina, J.S. Oldow, H. Geirsson, Diffuse plate boundary and microplate motion: kinematic effects of partial coupling between blocks in Western North America, EGU General Assembly, 3-8 April, Vienna, Austria. 2011.

Hackl, M., **R. Malservisi**, Urs Hugentobler, Time correlated noise vs. transient in GPS time series, EGU General Assembly, 3-8 April, Vienna, Austria. 2011.

2010

C. Plattner, **R. Malservisi**, R. Govers, Transfer of the Baja California Microplate by Partial Coupling with the Pacific Plate, *Eos Trans. AGU*, 91(26), Meet. Am. Suppl., Abstract T43A-04, 2010.



- Hackl M., **R. Malservisi**, U. Hugentobler, Uncertainty estimation of the velocity model for stations of the TrigNet and the IGS network, IGS Workshop and Vertical Rates Symposium, Newcastle upon Tyne, UK, 28 June - 2 July 2010.
- Malservisi R.**, M. Hackl, C. Plattner, F. Suarez Vidal, J.J. Gonzales Garcia, F. Amelung, Earthquake cycle on a transform fault in the Gulf of California, Mexico, EGU general assembly, Wien, Austria, May 2-7, 2010.
- Hackl, M., **R. Malservisi**, U. Hugentobler, R. Wonnacott, Uncertainty estimation of the velocity model for the TrigNet GPS network, EGU general assembly, Wien, Austria, May 2-7, 2010.
- C. Plattner, F. Amelung, **R. Malservisi**, Deformation in the central Gulf of California from the August 2009 M 6.9 event, EGU general assembly, Wien, Austria, May 2-7, 2010.

2009

- Malservisi R.**, C. Plattner, M. Hackl, J.J. Gonzalez-Garcia, J J, F. Suarez Vidal, F. Amelung, T.H. Dixon, Earthquake cycle on the Ballenas Fault, Central Gulf of California, MX, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract G23B-0689, December 2009.
- Plattner C., **Malservisi R.**, F. Amelung, Deformation in the Central Gulf of California from Geodetic data, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract T33E-06, December 2009.
- Hackl M., **R. Malservisi**, U. Hugentobler, R. Wonnacott, Uncertainty estimation of the velocity model for the TrigNet GPS network, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract G11B-0646, December 2009.
- Furlong K.P., G.P. Hayes, R.M. Govers, **R. Malservisi**, The 29 September Mw8+ Samoa Earthquake: Tectonic drivers and reactivated detachment faults? , *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract U21D-04, December 2009.
- R. Malservisi**, U. Hugentobler, and R. Wonnacott, Nubia rigid plate motion as seen from far south, EGU general assembly, Wien, Austria, April 19-24, 2009.
- M. Hackl, **R. Malservisi**, K. Furlong, and E. Kirby, Crustal strain rate patterns of the western North America Plate boundary, EGU general assembly, Wien, Austria, April 19-24, 2009.
- C. Plattner, **R. Malservisi**, R. Govers, and G. Iaffaldano, Microplate transfer by lithospheric coupling forces at the plate boundary, EGU general assembly, Wien, Austria, April 19-24, 2009.
- Malservisi R.**, U. Hugentobler, R. Wonnacott, R. Chako, How rigid is a rigid plate? Geodetic constraint from the TrigNet data, South Africa, IASPEI General assembly, 10-16 January, 2009, Cape Town, South Africa, 2009.
- Malservisi R.**, U. Hugentobler, R. Wonnacott, R. Chako, How rigid is a rigid plate? Geodetic constraint from the TrigNet CGPS network, South Africa, invited seminar at 1st GNSS Workshop Hermanus Magnetic Observatory, Hermanus, Western Cape, South Africa, January 2009.
- Plattner, C., **R. Malservisi**, R. Govers, Dynamic effects of micro-plate transfer: Lessons from Baja California, MX, invited talk IASPEI General assembly, 10-16 January, 2009, Cape Town, South Africa.

2008

- Malservisi, R.**, C. Plattner, M. Hackl, J. Weber, V. Bachtadse, P. Umhoefer, Deformation and rotation in southern Baja California, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T11A-1855, 2008.
- Plattner, C., **Malservisi, R.**, Govers, R., Baja transfer by partial coupling with the Pacific plate, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T13E-05, 2008.
- Hackl, M., **R. Malservisi**, S. Wdowinski, Crustal strain rate tensor from dense GPS networks, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T21B-1954, 2008.
- Umhoefer, P., R. Arrowsmith, G. Kent, N. Driscoll, G. Martinez-Gutierrez, **R. Malservisi**, C. Plattner, M. Busch, S. Maloney, B. Buchanan, Neotectonics across an active oblique-divergent plate margin, SW Gulf of California, EOS Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T11A-1854, 2008.
- Malservisi, R.**, U. Hugentobler, R. Wonnacott, R. Chako, How rigid is a rigid plate? Kinematic constraint from the TrigNet data, South Africa, 4th Annual AfricaArray workshop, University of the Witwatersrand, Johannesburg, South Africa, June 17-18, 2008.
- Malservisi, R.**, Hugentobler, U., Wonnacott, R., Chacko, R., How rigid is a rigid plate? Geodetic constraint from the Kalahari craton, South Africa. EGU general assembly, Wien, Austria, April 13-18, 2008.
- Plattner, C., **Malservisi, R.**, Govers, R., Do stalled slab fragments drive Baja California? EGU general assembly, Wien, Austria, April 13-18, 2008.
- Hackl, M., **Malservisi, R.**, Strain pattern from geodetic measurements. EGU general assembly, Wien, Austria, April 13-18, 2008.
- Schaber, K., Bunge, H.-P., **Malservisi, R.**, Geoid calculations from a Mantle Circulation model. EGU general assembly, Wien, Austria, April 13-18, 2008.

2007

- Malservisi, R.**, Furlong, K.P., Govers, R., How does a lithospheric plate boundary adapt to changes in plate motion? - An example from South Island of New Zealand, G12-1TU5P-0346, *abst. of papers presented at 2007 European Geosciences Union General Assembly*.
- Plattner, C., **Malservisi, R.**, Dixon, T., Sella, G., LaFemina, P., Fletcher, J., Suarez-Vidal, F. Kinematic and dynamic implications of terrane transfer, a study of Baja California, Mexico, *abst. of papers presented at 2007 European Geosciences Union General Assembly*.
- Eder, S.; **Malservisi, R.**; Plattner, C. Fault maturity and geodetic interpretations: how the 'spin up' cycle affects the interpretation of lithospheric viscosity and fault slip deficit, *abst. of papers presented at 2007 European Geosciences Union General Assembly*.
- Furlong, K.P., **Malservisi, R.**, Lithospheric controls on fault creep: Insights from the San Andreas fault system, G7/GD15-1TU40-002, *abst. of papers presented at 2007 European Geosciences Union General Assembly*.
- Malservisi, R.**, Furlong, K.P., Govers, R., How does a lithospheric plate boundary adapt to changes in plate motion? An example from South Island of New Zealand, *abst. of papers presented at 2007 European Geosciences Union General Assembly*
- Hackl, M., **Malservisi, R.**, Strain pattern in Southern California from geodetic measurements, AGU fall meeting 2007, San Francisco, CA.



Plattner, C., **Malservisi, R.**, Govers, R., Implications of the Baja California Microplate Motion on the Deformation Within the Western North America Plate Boundary Zone, AGU fall meeting 2007, San Francisco, CA.

Chacko, R., **Malservisi, R.**, Hugentobler, U., Wonnacott, R., How rigid is a rigid plate? Geodetic constraint from the Kalahari craton, South Africa. AGU fall meeting 2007, San Francisco, CA.

2006

Malservisi, R., Govers, R., Furlong, K., How does a lithospheric plate boundary adapt to changes in plate motion? An example from South Island of New Zealand *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract T41G-04.

Furlong, K., **R Malservisi**, C. Gans, Mapping the deformational behavior and mechanical properties of the Hayward fault. Seismo. Soc. America Annual Meeting.

Malservisi, R., Furlong, K.P., Dixon, T.H., Effect of lithospheric model assumptions on the interpretation of geodetic data (solicited), *papers presented at 2007 European Geosciences Union General Assembly*.

Plattner, C., **Malservisi, R.**, Dixon, T.H., LaFemina, P., Sella, G., Schmalzle, G., Fletcher, J., Suarez-Vidal, F., How coupled are Baja California (Mexico) and Pacific? *papers presented at 2007 European Geosciences Union General Assembly*.

Plattner, C., **Malservisi, R.**, Dixon, T.H., LaFemina, P., Fletcher, J., Suarez-Vidal, F., Implications of Baja California microplate kinematics. AGU fall meeting 2006, San Francisco, CA.

Eder, S., **Malservisi, R.**, Fault maturity and geodetic interpretations: how the 'spin up' cycle affects the interpretation of lithospheric viscosity and fault slip deficit. AGU fall meeting 2006, San Francisco, CA.

Malservisi, R., Govers, R., Furlong, K., How does a lithospheric plate boundary adapt to changes in plate motion? An example from South Island of New Zealand. AGU fall meeting 2006, San Francisco, CA.

2005

Malservisi, R., Furlong, K P Govers, R, Lithospheric-scale plate boundary response to changes in plate motion , *EOS Trans. AGU*, Papers at Fall AGU Meeting, San Francisco, CA.

Plattner, C., **Malservisi, R.**, Dixon, T.H., LaFemina, P., Sella, G., Schmalzle, G., Fletcher, J., Suarez-Vidal, F., Is Baja California part of the Pacific Plate? AGU fall meeting 2005, San Francisco, CA.

Schmalzle, G., LaFemina, P., Dixon, T., **Malservisi, R.**, Govers, R., Oldow, J., Strain Patterns Across the Eastern California Shear Zone. AGU fall meeting 2005, San Francisco, CA.

Outerbridge, K., Dixon, T., Wdowinski, S., **Malservisi, R.**, Current Vertical Crustal Movements in Northern Baja California, Mexico. AGU fall meeting 2005, San Francisco, CA.

2004

- Malservisi, R**, P C LaFemina, T H Dixon, J Fletcher, F. Suarez-Vidal, K P Furlong, Present day Fault Kinematics of Northern Baja California, Mexico, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract G11A-0768.
- P C La Femina, T H Dixon, **R Malservisi**, T Arnadottir, F Sigmundsson, E Sturkell, Strain Partitioning and Accumulation across Overlapping Spreading Centers: Geodetic GPS Measurements in South Iceland, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract G11A-0768.
- G F Sella, **R Malservisi**, S Wdowinski, T Dixon, P LaFemina, Effect of reference stations on continuous GPS (CGPS) time series. *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract G11A-0768.
- Malservisi, R.**; Gans, C.R.; Furlong, K.P., Using microseismicity to help to map creep on a fault plane: hints from modeling the Hayward fault, Abs. papers presented at the 1st EGU Congress (EGU04-A-03931).
- Furlong, Kevin, and **R. Malservisi**, 2004, Implications of the formation and location of the deeper extent of the plate boundary for exhumation along the Alpine Fault, New Zealand, Abs. of papers presented at the 17th Australian Geologic Convention, Hobart, Tasmania, Australia.
- 2003
- Furlong, K.P., and **R. Malservisi**, 2003, Implications of the 8/21/2003 Mw 7.2 Fiordland New Zealand earthquake for the development of the Alpine fault plate boundary, *Eos. Trans. AGU*, 84(46) Fall Meet. Suppl. Abstract T51C-03.
- Gans, C., K.P. Furlong, and **R. Malservisi**, 2003, Implications of microseismicity and earthquake induced transient fault creep for the earthquake potential on the Hayward fault, eastern San Francisco bay area, *Eos. Trans. AGU*, 84(46) Fall Meet. Suppl. Abstract T11D-0427.
- G M Schmalzle, **R Malservisi**, T Dixon, Effects of Lateral Heterogeneity on Strain Accumulation Across the Carrizo Plain Segment of the San Andreas Fault. *Eos. Trans. AGU*, 84(46) Fall Meet. Suppl.
- J E Dixon, T Dixon, **R Malservisi**, D Bell, Lateral Variation in Upper Mantle Viscosity: Role of Water. *Eos. Trans. AGU*, 84(46) Fall Meet. Suppl.
- Malservisi, R**; La Femina, P.C.; Dixon, T.H.; Furlong, K.P., 2003, The role of rheology in strain partitioning between the Agua Blanca and San Miguel Faults in northern Baja California, Mexico. Papers Presented at 2003 EGS Meeting TS21-1FR1P-0390
- 2002
- Malservisi, R**, Furlong, K P, Gans, C, 2002, Implications of Earthquake-Induced Transient Creep Rates on Creeping Faults, Papers presented at Fall AGU Meeting
- Gans, C R, Furlong, K P, **Malservisi, R**, 2002, Implications of Patterns of Micro-Seismicity on Creeping Faults: Evidence From the Hayward Fault, Papers presented at Fall AGU Meeting
- Furlong, K P, Anderson, H, **Malservisi, R** 2002, Localized subduction in response to transpression: A sliver 'neath Fiordland, West. Pac. Geophys. Mtg, Wellington, N.Z.
- Malservisi, R.**, K.P. Furlong and C. Gan, 2002, Creeping faults and seismicity: lesson from the Hayward Fault, California. EGS Meeting, Nice

- Furlong, K.P., **R. Malservisi**, and H. Anderson, 2002, Initiation(?) of subduction in a complex transpressional regime, Fiordland, New Zealand. EGS Meeting, Nice
- Malservisi, R.**, Furlong, K P, Anderson, H, 2002, Elevating Fiordland: plate geometries and dynamic support. West. Pac. Geophys. Mtg, Wellington, N.Z.
- Malservisi, R.**, Furlong, K P, Gans, C R 2002 Creeping Faults and Seismicity: insight from numerical simulations of the Hayward fault, West. Pac. Geophys. Mtg, Wellington, N.Z.

2001

- Furlong, K.P., **R. Malservisi**, H. Anderson, 2001, Initiation of Subduction in a Complex Transpressional Regime, Fiordland, New Zealand, *Eos. Trans. AGU 82, (47) Fall Meet. Suppl.* Abstract T41F-03.
- Malservisi, R.**, K.P. Furlong, C. Gans, 2001, Fault Creep on the Hayward Fault, CA: Implications for Fault Properties and Patterns of Moment Release, *Eos. Trans. AGU 82, (47) Fall Meet. Suppl.* Abstract S41A-0593.
- Furlong, K.P.; **Malservisi, R.**; Sheaffer, S., 2001, Thermal-Rheologic Controls on Deformation within Oceanic Transforms, *Geophysical Research Abstracts*, European Geophysical Society, Vol. 3
- Malservisi, R.**; Furlong, K.P.; Govers, R.; Anderson, H., 2001, Australian Plate Flexure in the Fiordland (New Zealand) Subduction, *Geophysical Research Abstracts*, European Geophysical Society, Vol. 3
- Furlong, K.P.; Dixon, T.; **Malservisi, R.**; Decaix, J., 2001, A diffuse plate boundary in northern Baja: implications of geodynamic modeling and crustal deformation observations, *Geophysical Research Abstracts*, European Geophysical Society, Vol. 3
- Malservisi, R.**; Furlong, K.P.; Dixon, T., 2001, Dynamics of the Eastern California Shear Zone: influence of the earthquake cycle and lithospheric rheology on the surface velocity field, *Geophysical Research Abstracts*, European Geophysical Society, Vol.3.

2000

- Furlong, Kevin P., Dixon, Tim, **Malservisi, R.**, 2000, Geodynamics of the Eastern California Shear Zone. *GSA National Meeting, Program with Abstracts*
- Dixon, T. H., Decaix, J., Furlong, K., **Malservisi, R.**, Bennett, R., Suarez Vidal, F., Fletcher, J, 2000, Present day slip rates for the Aqua Blanca and San Miguel-Valencitos faults in Northern Baja California, Mexico. *GSA National Meeting, Program with Abstracts*
- Furlong, Kevin P., Dixon, Tim, **Malservisi, R.**, Decaix, Julien, 2000, A diffuse plate boundary in Northern Baja California: implications of geodynamic modeling with crustal deformation observations. *GSA National Meeting, Program with Abstract.*
- Malservisi, R.**, Furlong, K P, Dixon, T H., 2000, Dynamics of the Eastern California Shear Zone, *Eos Trans. AGU, 81 (48)*, Fall Meet. Suppl.
- Furlong, K.P., T. Dixon, and **R. Malservisi**, 2000, Geodynamics of the Eastern California Shear Zone, GSA Annual Meeting, Reno, NV.



Furlong, K.P., T. Dixon, **R. Malservisi**, and J. Decaix, 2000, A diffuse plate boundary in northern Baja: implications of geodynamic modeling with crustal deformation observations, GSA Annual Meeting, Reno, NV. (Invited).

Malservisi, R., K.P. Furlong, R. Govers, and H. Anderson, 2000, Australian plate flexure in the Fiordland (New Zealand) subduction, European Geophysical Society Meeting, Nice France.

1999

Malservisi, R., and K.P. Furlong, 1999, The role of Australian plate flexure on Fiordland (new Zealand) Topography, *EOS trans. AGU*, 80, F969

1998

Malservisi, R., K.P. Furlong, and A. Meuwissen, 1998, Lithospheric accommodation in the transpressional regime of Fiordland, New Zealand, *EOS trans.AGU*, 79, F904.

Malservisi, R., and K.P. Furlong, 1998, Lithospheric response to transpressional plate boundary kinematics, European Geophysical Society Ann. Meeting, Nice, France, *Annales Geophysicae* (1988), vol.16, Suppl. 1, 1998.

Sabadini R., L.L.A. Vermeersen, **Malservisi R.**, The long-term rotation dynamics of the Earth, European Geophysical Society Ann. Meeting, Nice, France, *Annales Geophysicae* (1988), vol.16, Suppl. 1, 1998.