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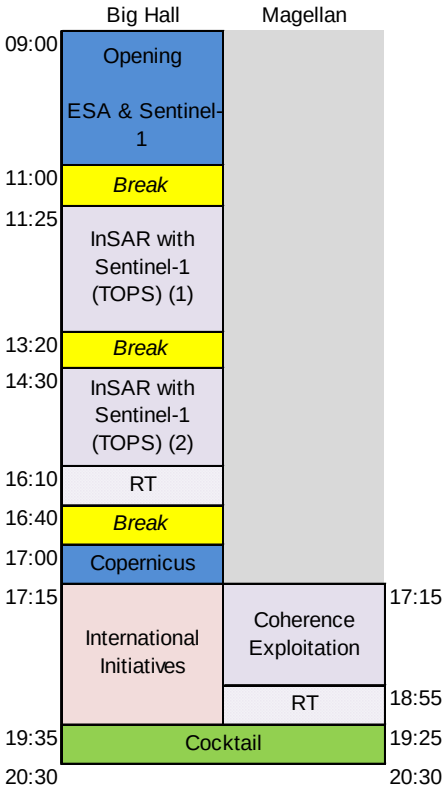
Monday 23 March



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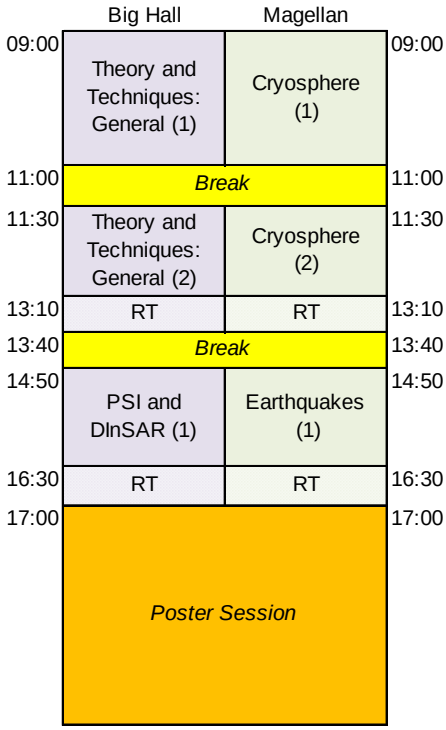

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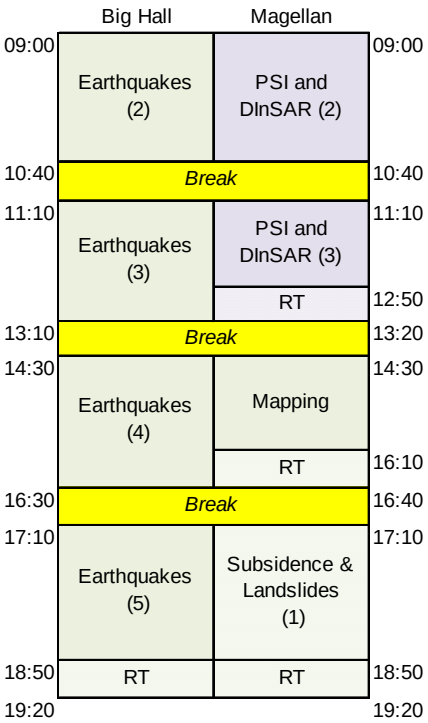

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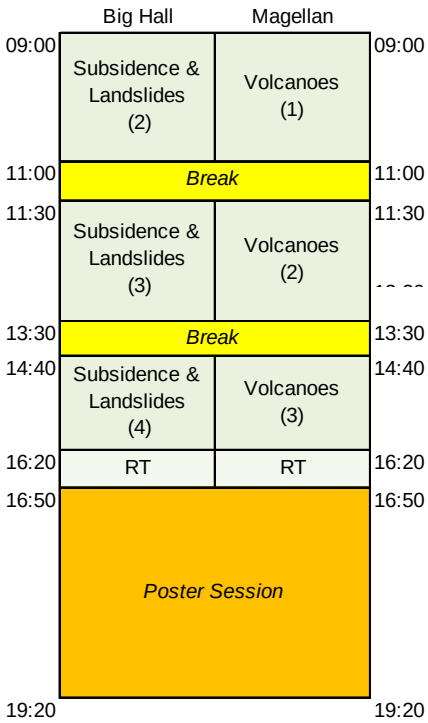

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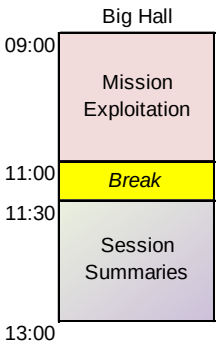

RT= Round Table

Oral Presentations Monday 23 March 2015

1.1.0 Opening Session (Big Hall 09:00-09:30)

09:00 Welcome
Liebig, Volker ESA
09:10 Workshop introduction and Organisation
Engdahl, Marcus ESA, Italy
09:20 ESA Scientific Exploitation of Operational Missions
Desnos, Yves-Louis ESA-ESRIN, Italy

1.1.1 ESA and Sentinel-1 Session (Big Hall 09:30-11:00)
Chairs: Potin, Pierre / Desnos, Yves-Louis

09:30 Copernicus Space Component Programmatic Status
Jutz, Simon ESA
09:45 S1 Mission Status
Potin, Pierre ESA
10:00 S1 Ground Segment and Data Access
Rosich, Betlem ESA
10:15 S1 Instrument and Product Performance Status
Miranda, Nuno ESA
10:30 ESA Heritage SAR missions
Laur, Henri ESA
10:40 ESA & the Geohazards Exploitation Platform
Bally, Philippe ESA
10:50 Sentinel-1 Toolbox
Engdahl, Marcus ESA, Italy

11:00 Coffee Break

1.1.2 InSAR with Sentinel-1 (1) (Big Hall 11:25 -13:00)
Chairs: Larsen, Yngvar / De Zan, Francesco

11:25 Sentinel-1 InSAR Capabilities: Results from the Sentinel-1A In-Orbit Commissioning
Geudtner, Dirk ESA-ESTEC, Netherlands, The
11:40 INVESTIGATIONS WITH THE SENTINEL-1 INTERFEROMETRIC WIDE SWATH MODE
Prats-Iraola, Pau (1); Nannini, Matteo (1); Scheiber, Rolf (1); De Zan, Francesco (1); Wollstadt, Steffen (1); Minati, Federico (2); Costantini, Mario (2); Bucarelli, Andrea (2); Borgstrom, Sven (3); Walter, Thomas R. (4); Foumelis, Michael (5); Desnos, Yves-Louis (6) 1: German Aerospace Center (DLR), Germany; 2: e-GEOS SpA, ASI/Telespazio; 3: National Institute of Geophysics and Volcanology (INGV), Vesuvius Observatory; 4: GFZ Potsdam; 5: RSAC c/o ESA-ESRIN, Italy; 6: ESA-ESRIN, Italy
12:00 SEOM - Sentinel-1 InSAR Performance Study with TOPS Data - Team B: First Results
Larsen, Yngvar (1); Johnsen, Harald (1); Marinkovic, Petar (2); Hooper, Andy (3); Wright, Tim J (3); Perski, Zbigniew (4); Dehls, John (5) 1: Norut, Norway; 2: PPO.labs, The Netherlands; 3: COMET, University of Leeds, United Kingdom; 4: Polish Geological Institute - National Research Institute, Poland; 5: NGU, Norway
12:20 Considerations of the Orbital Tube for Interferometric Applications
Prats-Iraola, Pau (1); Rodriguez-Cassola, Marc (1); Loopez-Dekker, Paco (1); Scheiber, Rolf (1); De Zan, Francesco (1); Barat, Itziar (2); Geudtner, Dirk (2) 1: German Aerospace Center (DLR), Germany; 2: ESA-ESTEC, The Nederlands
12:40 Sentinel-1 precise orbit calibration and validation
Monti Guarnieri, Andrea (1); Mancon, Simone (2); Tebaldini, Stefano (3) 1: Politecnico di Milano, Italy; 2: Politecnico di Milano, Italy; 3: Politecnico di Milano, Italy
13:00 Interferometric Evaluation of Sentinel-1A TOPS data
Yague-Martinez, Nestor (1,2); Rodriguez Gonzalez, Fernando (1); Brcic, Ramon (1); Shau, Robert (1) 1: Remote Sensing Technology Institute. DLR, Germany; 2: Technical University Munich. Germany

13:20 Lunch Break

1.1.3 InSAR with Sentinel-1 (2) (Big Hall 14:30 -16:40)
Chairs: Prats-Iraola, Pau / D'Aria, Davide

14:30 Sentinel-1 TOPS data coregistration: Operational and Practical considerations
Larsen, Yngvar (1); Marinkovic, Petar (2) 1: Norut, Norway; 2: PPO.labs, The Netherlands
14:50 Sentinel-1 IW mode time-series analysis -- When to stitch? How to stitch? Whether to stitch?
Marinkovic, Petar (1); Larsen, Yngvar (2) 1: PPO.labs, The Netherlands; 2: Norut, Norway
15:10 Towards Routine Monitoring of Tectonic and Volcanic Deformation with Sentinel-1
Wright, Tim J (1); Biggs, Juliet (2); Crippa, Paula (3); Ebmeier, Susanna K. (2); Elliott, John (4); Gonzalez, Pablo (1); Hooper, Andy (1); Larsen, Ynvar (5); Li, Zhenhong (3); Marinkovic, Petar (6); Parsons, Barry (4); Walters, Richard (1); Ziebart, Marek (7) 1: COMET, University of Leeds, United Kingdom; 2: COMET, University of Bristol, United Kingdom; 3: COMET, University of Newcastle, United Kingdom; 4: COMET, University of Oxford, United Kingdom; 5: Norut, Norway; 6: PPO.Labs, The Netherlands; 7: COMET, University College London, United Kingdom
15:30 Sentinel-1 InSAR Quality Control: deformation monitoring application perspective
Marinkovic, Petar (1); Larsen, Yngvar (2); Perski, Zbigniew (3) 1: PPO.labs, The Netherlands; 2: Norut, Norway; 3: Polish Geological Institute - National Research Institute, Poland
15:50 An Efficient Sentinel-1 TOPS SBAS-DInSAR Processing Chain

Manunta, Michele; Berardino, Paolo; Bonano, Manuela; De Luca, Claudio; Elefante, Stefano; Fusco, Adele; Lanari, Riccardo; Manzo, Mariarosaria; Pepe, Antonio; Sansosti, Eugenio; Zinno, Ivana; Casu, Francesco IREA-CNR, Italy

16:10 Round Table

16:40 Coffee Break

1.1.4.0 Copernicus Programme Overview (Big Hall 17:00-17:15)

17:00 Copernicus Programme Overview
Roboz, Andras European Commission

1.1.4 International Initiatives (Big Hall 17:15-19:35)

Chairs: Fialko, Yuri / Salvi, Stefano

17:15 SAR Archive and Community Support Activities at UNAVCO
Baker, Scott (1); Crosby, Christopher (1); Meertens, Charles (1); Fielding, Eric Jameson (2); Bryson, Gwendolyn (3); Buechler, Brian (3); Nicoll, Jeremy (3); Baru, Chaitanya (4) 1: UNAVCO, Boulder, CO, USA; 2: Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, USA; 3: Alaska Satellite Facility, University of Alaska Fairbanks, Fairbanks, AK , USA; 4: San Diego Supercomputer Center, UC San Diego, La Jolla, CA, USA

17:35 InSAR results from the WInSAR Consortium
Pritchard, Matt (1); Fielding, Eric Jameson (2); Wdowinski, Shimon (3); Baker, Scott (4); members, WInSAR (5); Zhong, Lu (5) 1: Cornell University, United States of America; 2: Jet Propulsion Lab, Caltech, United States of America; 3: University of Miami, United States of America; 4: UNAVCO, Inc., United States of America; 5: Various Institutions

17:55 The Geohazard Supersites and Natural Laboratories - GSNL Initiative 2.0: Rapid Uptake of New Science in Disaster Risk Management
Salvi, Stefano Supersite Advisory Committee (Chair) and INGV, Italy

18:15 The Italian Supersites volcanoes: a long-term monitoring experiment in active volcanic areas prone to natural hazard
Borgstrom, Sven (1); Buongiorno, Fabrizia (2); Camacho, Antonio (3); Del Gaudio, Carlo (1); De Martino, Prospero (1); Guglielmino, Francesco (4); Lanari, Riccardo (5); Pepe, Antonio (5); Puglisi, Giuseppe (4); Silvestri, Malvina (2); Siniscalchi, Valeria (1); Fernandez, Jose (3) 1: Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Napoli "Osservatorio Vesuviano", Italy; 2: Istituto Nazionale di Geofisica e Vulcanologia - Centro Nazionale Terremoti, Italy; 3: Instituto de Geociencias (IGEO) - CSIC-UCM, Spain; 4: Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Catania "Osservatorio Etneo", Italy; 5: Istituto per il Rilevamento Elettromagnetico dell'Ambiente - Consiglio Nazionale delle Ricerche, Italy

18:35 Satellite Monitoring of the 2014 Dyke Intrusion and Eruption within the Bárðarbunga Volcanic System, facilitated by the CEOS Icelandic SUPERSITE
Parks, Michelle M (1); Dumont, Stéphanie (1); Drouin, Vincent (1); Sigmundsson, Freysteinn (1); Spaans, Karsten (2); Hooper, Andrew (2); Árnadóttir, Thóra (1); Heimisson, Elías Rafn (1); Ófeigsson, Benedikt (3); Hreinsdóttir, Sigrún (4); Friðriksdóttir, Hildur María (1,3); Magnússon, Eyjólfur (1); Vogfjörd, Kristín S (3); Guðmundsson, Gunnar B (3); Jónsdóttir, Kristín (3); Hensch, Martin (3); Brandsdóttir, Bryndís (1); Samsonov, Sergey (5); Jónsdóttir, Ingibjörg (1); Gudmundsson, Magnús T (1); Högnadóttir, Thórdís (1); Einarsson, Páll (1); Hjartardóttir, Ásta Rut (1); Michalczewska, Karolina (1); Hjaltadóttir, Sigurlaug (1,3); Sturkell, Erik (6) 1: Nordic Volcanological Center, Institute of Earth Sciences, University of Iceland, IS-101 Reykjavík, Iceland; 2: COMET, School of Earth and Environment, University of Leeds, Leeds, LS2 9JT, UK; 3: Icelandic Meteorological Office, IS-150 Reykjavík, Iceland; 4: GNS Science, Avalon 5010, Lower Hutt, New Zealand; 5: Canada Centre for Mapping and Earth Observation, Natural Resources Canada, 560 Rochester Street, Ottawa, ON K1A 0E4 Canada; 6: University of Gothenburg, SE-405 30 Gothenburg, Sweden

18:55 The FP7 Marsite Project as a Supersite Initiative: Exploitation of X-Band InSAR Results for Surface Deformation Analysis over the Istanbul Area
Solaro, Giuseppe (1); Nobile, Adriano (2); Bonano, Manuela (1); Salvi, Stefano (3); Manzo, Mariarosaria (1); Merryman Boncori, John Peter (3) 1: IREA-CNR, Italy; 2: Royal Museum for Central africa, Tervuren, Belgium; 3: INGV, CNT, Rome, Italy

19:15 Using SAR and GPS for Hazard Management and Response: Progress and Examples from the Advanced Rapid Imaging and Analysis (ARIA) Project
Simons, Mark (1); Owen, Susan (2); Hua, Hook (2); Yun, Sang-Ho (2); Agram, Piyush (2); Sacco, Gian Franco (2); Webb, Frank (2); Rosen, Paul (2); Lundgren, Paul (2); Fielding, Eric Jameson (2); Manipon, Gerald (2); Moore, Angelyn (2); Liu, Zhen (2); Milillo, Pietro (1,3); Riel, Bryan Valmonte (1); Milillo, Giovanni (4); Cruz, Jennifer (2); Polet, Jascha (1); Samsonov, Sergey (5) 1: Caltech, United States of America; 2: Jet Propulsion Laboratory / Caltech, United States of America; 3: University of Basilicata, Italy; 4: ASI/CIDOT, Italy; 5: Canada Centre for Remote Sensing, Natural Resources Canada

1.2.4 Coherence Exploitation (Magellan 17:15-19:25)

Chairs: Wegmüller, Urs / Foumelis, Michael

17:15 On the Estimation and Interpretation of Sentinel-1 TOPS InSAR Coherence
Wegmüller, Urs; Santoro, Maurizio; Werner, Charles Gamma Remote Sensing AG, Switzerland

17:35 Analysis of the Time Evolution of Temporal Coherence using COSMO-SkyMed HH and VV data
Balbarani, Sebastián (1); Euillades, Pablo Andrés (1); Euillades, Leonardo Daniel (1); Riveros, Natalia Cecilia (2) 1: Instituto CEDIAC - FI - Universidad Nacional de Cuyo & CONICET; 2: Instituto CEDIAC - FI - Universidad Nacional de Cuyo

17:55 Tree Height Analysis in TanDEM-X Data Using Frequency Domain Coherence
Bollian, Tobias (1); Thiele, Antje (2,3); Hinz, Stefan (2); Meyer, Franz Josef (4) 1: European Space Research and Technology Centre (ESTEC), The Netherlands; 2: Karlsruhe Institute of Technology (KIT), Germany; 3: Fraunhofer Institute of Optronics, System Technologies and Image Exploitation (IOSB), Germany; 4: University of Alaska Fairbanks (UAF), USA

18:15 Moving from Temporal Coherence to Decorrelation Time of Interferometric Measurements Exploiting ESA's SAR Archive
Foumelis, Michael (1); Mitraka, Zina (2); Cuccu, Roberto (3); Desnos, Yves-Louis (4); Engdahl, Marcus (4) 1: RSAC c/o ESA-ESRIN, Italy; 2: Foundation for Research and Technology – Hellas (FORTH), Greece; 3: ESA Research and Service Support, Italy; 4: ESA, Italy

18:35 Interferometric Coherence for Rapid Disaster Response
Yun, Sang-Ho (1); Milillo, Pietro (2); Simons, Mark (3); Owen, Susan (1); Webb, Frank (1); Fielding, Eric Jameson (1); Hua, Hook (1); Milillo, Giovanni (4); Coletta, Alessandro (4); Rosen, Paul (1); Dini, Luigi (4) 1: NASA - JPL, United States of America; 2: University of Basilicata, Italy; 3: California Institute of Technology, United States of America; 4: Italian Space Agency (ASI), Italy

18:55 Round Table

Oral Presentations Tuesday 24 March 2015

2.1.1 InSAR Theory and Techniques (1) (Big Hall 09:00-11:00)

Chairs: Bamler, Richard / Monti Guarnieri, Andrea

09:00 Constructing high-resolution, absolute maps of atmospheric water vapor by combining InSAR and GNSS observations
Alshawaf, Fadwa Karlsruhe Institute of Technology, Germany

09:20 Phase inconsistencies and water effects in SAR interferometric stacks
De Zan, Francesco; Zonno, Mariantonietta; López-Dekker, Paco; Parizzi, Alessandro German Aerospace Center (DLR), Germany

09:40 Evaluation of Atmospheric Phase Screens by Adaptive Common-Scene Stacking of Dense InSAR Data Sets
Fialko, Yuri; Tymofyeyeva, Ekaterina UCSD, United States of America

10:00 Statistical Comparison of Troposphere Correction Methods for InSAR
Bekaert, David (1); Walters, Richard J. (1); Hooper, Andrew J. (1); Wright, Tim J. (1); Parker, Doug J. (2) 1: COMET, University of Leeds, United Kingdom; 2: University of Leeds, United Kingdom

10:20 A generalization of the SBAS approach to estimate the temporal evolution of Precipitable Water Vapour from time-series of InSAR interferograms
Pasquini, Cecilia (1); Nico, Giovanni (2); Ruggiero, Valeria (3); Mateus, Pedro (4); Catalao, Joao (5); Sacco, Patrizia (6) 1: Università degli Studi di Trento, Dipartimento di Ingegneria e Scienze dell'Informazione, Italy; 2: Consiglio Nazionale delle Ricerche, Italy; 3: Università degli Studi di Ferrara, Dipartimento di Matematica e Informatica, Italy; 4: Instituto Nacional de Pesquisas Espaciais, Brasil; 5: Universidade de Lisboa, IDL, Portugal; 6: Agenzia Spaziale Italiana, Italy

10:40 A Global Model for Ionospheric Phase Noise in Low-Frequency SAR and InSAR Data
Meyer, Franz Josef (1); Agram, Piyush (2) 1: University of Alaska Fairbanks, United States of America; 2: Jet Propulsion Laboratory, United States of America

11:00 Coffee Break

2.1.2 InSAR Theory and Techniques (2) (Big Hall 11:30-13:40)

Chairs: Rocca, Fabio / Eineder, Michael

11:30 InSAR Forensics: Tracing InSAR Scatterers in High Resolution Optical Image
Wang, Yuanyuan (1); Zhu, Xiao Xiang (1,2) 1: Helmholtz Young Investigators Group "SiPEO", Technische Universität München, Arcisstraße 21, 80333 Munich, Germany; 2: Remote Sensing Technology Institute, German Aerospace Center, Oberpfaffenhofen, 82234 Weßling, Germany

11:50 Split-Band Interferometric SAR Processing Using TanDEM-X Data
De Rauw, Dominique (1); Kervyn, François (2); d'Oreye, Nicolas (3,4); Smets, Benoit (2,3,5); Albino, Fabien (2); Barbier, Christian (1) 1: Centre Spatial de Liège, Belgium; 2: Royal Museum of Central Africa, Belgium; 3: European Center For Geodynamics and Seismology, Luxembourg; 4: National Museum of Natural History, Luxembourg; 5: Vrije Universiteit Brussel, Belgium

12:10 Tomographic processing of AlpTomoSAR airborne data for observing the internal structure of Alpine glaciers: algorithm description, challenges, and future perspectives.
Tebaldini, Stefano (1); Nagler, Thomas (2); Meta, Adriano (3); Coccia, Alex (3) 1: Politecnico di Milano, Italy; 2: ENVEO; 3: MetaSensing

12:30 A Global Validation of ERA-Interim Atmospheric Correction for InSAR
Walters, Richard J (1); Bekaert, David (1); Wright, Tim J (1); Parker, Doug J (2); Hooper, Andy J (1); Crippa, Paola (3); Li, Zhenhong (3) 1: COMET, University of Leeds, United Kingdom; 2: University of Leeds, United Kingdom; 3: COMET, University of Newcastle, United Kingdom

12:50 Advanced Characterization Methods of Height-Varying Short- and Long-Term Forest TomoSAR Temporal Decorrelation
Lombardini, Fabrizio (1,2); Viviani, Federico (1,2) 1: University of Pisa, Italy; 2: CNIT/RaSS Nat. Lab., Italy

13:10 Round Table

13:40 Lunch Break

2.1.3 PSI and DInSAR (1) (Big Hall 14:50-17:00)

Chairs: Marinkovic, Petar / Adam, Nico

14:50 Strategies for Measuring Large Scale Ground Surface Deformations: PSI Wide Area Product Approaches
Duro, Javier (1); Iglesias, Rubén (1); Blanco-Sánchez, Pablo (1); Albiol, David (1); Wright, Tim (2); Adam, Nico (3); Rodriguez Gonzalez, Fernando (3); Brcic, Ramon (3); Parizzi, Alessandro (3); Novali, Fabrizio (4); Bally, Phillippe (5) 1: Altamira-Information, Spain; 2: School of Earth and Environment, University of Leeds, United Kingdom; 3: German Aerospace Center (DLR), Remote Sensing Technology Institute, Germany; 4: Telerilevamento-Europa. Italy; 5: European Space Agency, ESRIN, Italy

15:10 Persistent scatterer pair (PSP) Interferometry and Surface Reconstruction Techniques for

Urban DSM from High Resolution Satellite SAR Acquisitions
Costantini, Mario e-GEOS - Italian Space Agency/Telespazio, Italy

15:30 Advanced InSAR Processing in the Footsteps of SqueeSAR
Even, Markus Fraunhofer IOSB, Germany

15:50 The PSIG approach to Persistent Scatterer Interferometry
Devanthéry, Núria (1); Crosetto, Michele (1); Monserrat, Oriol (1); Cuevas-González, María (1); Crippa, Bruno (2) 1: CTTC, Spain; 2: University of Milan

16:10 Combining InSAR, Levelling and GNSS for the Estimation of 3D Surface Displacements
Fuhrmann, Thomas (1); Caro Cuenca, Miguel (2); van Leijen, Freek (3); Westerhaus, Malte (1); Hanssen, Ramon (3); Heck, Bernhard (1) 1: Geodetic Institute, Karlsruhe Institute of Technology, Germany; 2: Department of Radar Technology, TNO, The Netherlands; 3: Department of Geoscience and Remote Sensing, Delft University of Technology, The Netherlands

16:30 Round Table

Poster session 1

2.2.1 Applications: Cryosphere (1) (Magellan 09:00-11:00)

Chairs: Nagler, Thomas / Rignot, Eric

09:00 Observations of ice surface velocity of Greenland outlet glaciers by Sentinel-1
Nagler, Thomas; Hetzenecker, Markus; Rott, Helmut; Wuite, Jan ENVEO IT GmbH, Austria

09:20 Ice sheet instability in north-east Greenland - or lack thereof.
Rignot, Eric (1,2); Mouginot, Jeremie (1); Scheuchl, Bernd (1); Buzzi, Arnaud (1); Millan, Romain (1) 1: UC Irvine, United States of America; 2: Caltech's Jet Propulsion Laboratory

09:40 A first look at the performance of Sentinel-1 over the West Antarctic Ice Sheet
Hogg, Anna (1); Shepherd, Andrew (1); Gourmelen, Noel (2) 1: University of Leeds, United Kingdom; 2: University of Edinburgh, United Kingdom

10:00 Ice Velocity Mapping Using TOPS SAR Data and Offset Tracking
Dall, Jørgen (1); Kusk, Anders (1); Nielsen, Ulrik (1); Merryman Boncori, John Peter (2) 1: Technical University of Denmark, Denmark; 2: Istituto Nazionale di Geofisica e Vulcanologia, Italy

10:20 Sustained flux increase and grounding line retreat of Amundsen Sea Sector, West Antarctica between 1973 and 2015 using remote sensing data.
Mouginot, Jeremie (1); Rignot, Eric (1,2); Scheuchl, Bernd (1) 1: University of California - Irvine, United States of America; 2: Jet Propulsion Laboratory, United States of America

10:40 Rapid dynamic activation of a marine-based Arctic ice cap
Gourmelen, Noel (1); McMillan, Malcolm (2); Shepherd, Andrew (2,3); Dehecq, Amaury (4); Leeson, Amber (2); Ridout, Andrew (3); Flament, Thomas (2); Hogg, Anna (2); Gilbert, Lin (3); Benham, Toby (5); van den Broeke, Michiel (6); Dowdeswell, Julian A. (5); Fettweis, Xavier (7); Noël, Brice (6); Strozzi, Tazio (8) 1: University of Edinburgh, United Kingdom; 2: University of Leeds, United Kingdom; 3: University College London, United Kingdom; 4: Université de Savoie, France; 5: University of Cambridge, United Kingdom; 6: Utrecht University, The Netherlands; 7: University of Liège, Belgium; 8: GAMMA Remote Sensing Research and Consulting AG, Switzerland

11:00 Coffee Break

2.2.2 Applications: Cryosphere (2) (Magellan 11:30-13:40)

Chairs: Shepherd, Andrew / Gourmelen, Noel

11:30 Changing Velocities and Elevation at Glaciers in Patagonia, Russia, and Alaska
Pritchard, Matt (1); Willis, Michael (1,2); Melkonian, Andrew (1); Elliott, Julie (3); Durkin, Joey (1) 1: Cornell University, United States of America; 2: University of North Carolina, United States of America; 3: Purdue University, United States of America

11:50 Interferometric control for mapping and quantifying the 2011-14 breakup of Matusevich Ice Shelf, Severnaya Zemlya
Sharov, Aleksey (1); Nikolskiy, Dmitry (2); Troshko, Ksenia (3); Zaprudnova, Zinaida (3) 1: DIGITAL - Institute of Information and Communication Technologies, Joanneum Research, Graz, Austria; 2: SOVZOND Company, Moscow, Russian Federation; 3: Faculty of Geography, Lomonosov Moscow State University, Russian Federation

12:10 Seasonal variabilty of surface velocities, elevation and volume changes of Columbia Glacier, Alaska using high-resolution TanDEM-X satellite time series data"
Vijay, Saurabh; Braun, Matthias FAU Erlangen, Germany

12:30 Sensing the bed-rock movement due to ice unloading from space using InSAR time-series
Zhao, Wenliang; Amelung, Falk University of Miami, United States of America

12:50 Understanding the response of ice streams to tidal forcing using short repeat time InSAR
Simons, Mark (1); Minchew, Brent (1); Milillo, Pietro (1,2); Riel, Bryan Valmonte (1); Agram, Piyush (3) 1: Caltech, United States of America; 2: University of Basilicata, Italy; 3: Jet

Propulsion Laboratory/Caltech, United States of America

13:10 Round Table

13:40 Lunch Break

2.2.3 Applications: Earthquakes and Tectonics (1) (Magellan 14:50-17:00)

Chairs: Wright, Tim J / Fialko, Yuri

14:50 Assessment of ScanSAR Interferometry from Sentinel-1 and ALOS-2
Sandwell, David T. (1); Xu, Xiaohua (1); Tong, Xiaopeng (2) 1: Scripps Institution of Oceanography, United States of America; 2: University of Washington, United States of America

15:10 California 2014 Earthquake Deformation Imaged with InSAR Time Series: La Habra and South Napa
Fielding, Eric Jameson (1); Milillo, Pietro (2); Bürgmann, Roland (3); Yun, Sang-Ho (1); Liu, Zhen (1); Samsonov, Sergey (4); Agram, Piyush S. (1); Milillo, Giovanni (5) 1: Jet Propulsion Lab, Caltech, Pasadena, Calif., USA; 2: University of Basilicata, Potenza, Italy; 3: University of California, Berkeley, California, USA; 4: Natural Resources Canada, Ottawa, Ontario, Canada; 5: Italian Space Agency CIDOT, Matera, Italy

15:30 Probing the 2014 Mw 6.0 South Napa (California) earthquake and postseismic deformation with Sentinel-1 InSAR and GPS
Elliott, John (1); Floyd, Mike (2); Funning, Gareth (3); Hooper, Andy (4); Larsen, Yngvar (5); Marinkovic, Petar (6); Plain, Morgan (4); Samsonov, Sergey (7); Walters, Richard (4); Wright, Tim (4) 1: COMET, Department of Earth Sciences, University of Oxford, United Kingdom; 2: Department of Earth, Atmospheric and Planetary Sciences, Massachusetts Institute of Technology, United States; 3: Department of Earth Sciences, UC RIverside, United States; 4: COMET, School of Earth and Environment, University of Leeds, United Kingdom; 5: Norut, Norway; 6: PPO.labs, The Netherlands; 7: Natural Resources Canada, Ottawa, Ontario, Canada.

15:50 Surface Deformation Analysis of 2014 Napa Earthquake Retrieved Through SAR Techniques
Solaro, Giuseppe (1); Castaldo, Raffaele (1); De Luca, Claudio (1,2); Samsonov, Sergey (3); Casu, Francesco (1) 1: IREA-CNR, Naples, Italy; 2: Università degli Studi di Napoli "Federico II", DIETI, Naples, Italy; 3: Canada Centre for Mapping and Earth Observation, Ottawa, Canada

16:10 Co- And Post-Seismic Displacement Field Of The Pisagua Earthquake 2014 based On InSAR And GPS Data
Eckelmann, Felix; Moreno, Marcos; Metzger, Sabrina; Oncken, Onno GFZ German Research Centre for Geosciences, Germany

16:30 Round Table

Poster session 1

Oral Presentations Wednesday 25 March 2015

3.1.1 Applications: Earthquakes and Tectonics (2) (Big Hall 09:00-10:40)

Chairs: Parsons, Barry / Eliott, John

09:00 A Strike-slip Dominated Fault Rupture of the Sept. 24, 2013 Mw 7.7 Awaran, Pakistan Earthquake And Its First-year Post-seismic Deformation Revealed by Landsat-8 Imagery And TerraSAR-X Data
Sun, Jianbao Institute of Geology, China Earthquake Adminstration, China, People's Republic of

09:20 Improving SAR-image Offsets by Considering Scattering Characteristics: Application to Coseismic Displacement Mapping
Wang, Teng; Jónsson, Sigurjón King Abdullah University of Science and Technology, Saudi Arabia

09:40 Refining the Shallow Slip Deficit
Xu, Xiaohua (1); Tong, Xiaopeng (2); Sandwell, David T. (1); Milliner, Christopher W.D. (3); Dolan, James F. (3); Hollingsworth, James (4); Leprince, Sebastien (5); Ayoub, Francois (5) 1: Scripps Institution of Oceanography, United States of America; 2: University of Washington, United States of America; 3: University of Southern California, United States of America; 4: ARUP consulting, London, UK; 5: California Institute of Technology, United States of America

10:00 Extensional Tectonics and Volcanism in the Red Sea Region observed by InSAR
Jonsson, Sigurjon; Xu, Wenbin; Ruch, Joel; Dutta, Rishabh; Wang, Teng; Bathke, Hannes; Feng, Guangcai King Abdullah University of Science and Technology (KAUST), Saudi Arabia

10:20 Time Series Analysis of InSAR Data Over the Asal Rift, Djibouti Using Radarsat-1 and COSMO-Skymed Data.
Peltzer, Gilles (1,2); Milillo, Pietro (3,4); Sangha, Simran (1,2) 1: University of California, Los Angeles, United States of America; 2: Jet Propulsion Laboratory, California Institute of Technology, United States of America; 3: Seismological laboratory - California institute of Technology, Pasadena - USA; 4: Università della Basilicata – Potenza, Italy

10:40 Coffee Break

3.1.2 Applications: Earthquakes and Tectonics (3) (Big Hall 11:10-13:10)

Chairs: Sun, Jianbao / Fielding, Eric Jameson

11:10 An Atmospherically Corrected DInSAR SBAS Network and its Decomposition into a 3D Field Vector for Tectonic Deformation Detection over the Hyblean Plateau, Italy
Vollrath, Andreas (1); Zucca, Francesco (1); Stramondo, Salvatore (2); Bonforte, Alessandro (3); Guglielmino, Francesco (3); Bekaert, David (4); Hooper, Andrew (4) 1: Università di Pavia, Italy; 2: Istituto Nazionale per Geofisica e Vulcanologia INGV; 3: Istituto Nazionale per Geofisica e Vulcanologia INGV, Osservatorio Etneo; 4: University of Leeds, COMET, School of Earth and Environment

11:30 The Transient Behavior of the North Anatolian Fault Creeping Section seen by COSMO-SkyMed (TM) Acquisitions
Rousset, Baptiste (1); Jolivet, Romain (2); Riel, Bryan Valmonte (3); Milillo, Pietro (4,5); Simons, Mark (3); Lasserre, Cécile (1); Çakir, Ziadyn (6) 1: ISTerre, Université Grenoble Alpes, CNRS, Grenoble, France; 2: Bullard Laboratories, Department of Earth Sciences, University of Cambridge, Cambridge, UK; 3: Seismological Laboratory, Department of Geological and Planetary Sciences, California Institute of Technology, Pasadena, USA; 4: Jet Propulsion Laboratory, California Institute of Technology, Pasadena, USA; 5: Scuola di Ingegneria, Universita' degli studi della Basilicata, Potenza, Italy; 6: Istanbul Technical University, Faculty of Mines, Department of Geology, Istanbul, Turkey

11:50 The Relationship Between Coseismic Slip and Shallow Fault Creep After the 1999 Izmit and Duzce Earthquakes
Hussain, Ekbal; Wright, Tim; Houseman, Gregory; Walters, Richard; Bekaert, David University of Leeds, United Kingdom

12:10 Block-like plate movements in eastern Anatolia observed by InSAR
Cavalié, Olivier (1); Jonsson, Sigurjon (2) 1: Géoazur, Université de Nice, France; 2: King Abdullah University of Science and Technology, Saudi Arabia

12:30 Studying Fault Activation by using Seismic and InSAR Data for the 2012 Ahar-Varzeghan Mw 6.4 and 6.2 Earthquake Doublet in NE Iran
Sudhaus, Henriette (1); Donner, Stefanie (2); Krueger, Frank (1); Ghods, Abdolreza (3); Roessler, Dirk (4); Landgraf, Angela (1); Ballato, Paolo (1) 1: University of Potsdam, Germany; 2: Ludwig-Maximilians University Munich, Germany; 3: Institute of Advanced Studies in Basic Sciences, Zanjan, Iran; 4: GFZ German Centre for Geosciences

12:50 Geodetic Insights into the Growth and Evolution of Thrust Belts: Examples from East Iran
Copley, Alex; Reynolds, Kirsty University of Cambridge, United Kingdom

13:10 Lunch Break

3.1.3 Applications: Earthquakes and Tectonics (4) (Big Hall 14:30-16:30)

Chairs: Peltzer, Gilles / Parsons, Barry

14:30 Interseismic deformation of anticlines in an active foreland fold and thrust belt measured from ALOS-1 InSAR and GPS: the Southwestern Taiwan case
Pathier, Erwan (1); Fruneau, Bénédicte (2); Hu, Jyr-Ching (3); Doin, Marie-Pierre (1); Liao, Yu-Tzu (3); Champenois, Johann (1) 1: University of Grenoble, France; 2: University of Paris-Est Marne-La-Vallée, France; 3: National Taiwan University, Taiwan

14:50 Interseismic strain accumulation in the Kashi Depression (Tianshan, China) from atmosphere-corrected InSAR measurements
Wen, Yangmao; He, Ping; Xu, Caijun; Liu, Yang School of Geodesy and Geomatics, Wuhan University

15:10 Multi-temporal InSAR measurement of interseimic motion on the eastern Tibet border
Doin, Marie-Pierre (1); Lasserre, Cécile (1); He, Pengchao (2); De Sigoyer, Julia (1); Replumaz, Anne (1) 1: ISTerre, UJF, CNRS, Grenoble, France; 2: Department of Geophysics, School of Earth and Space Sciences, Peking University, Beijing,,China

15:30 Measure by radar interferometry (InSAR) of intracontinental deformation in Tibet: the case example of the Altyn Tagh Fault
DAOUT, Simon (1); DOIN, Marie-Pierre (1); LASSERRE, Cécile (1); PELTZER, Gilles (2); Sun, Jianbao (3); Shen, Zhen-Kang (4); Xu, Xiwei (3) 1: ISTerre, Grenoble, France; 2: University of California, USA; 3: Institute of Geology, CEA, Beijing, China; 4: Peking University, School of Earth and Space Science, Beijing, China

15:50 Interseismic crustal deformation in south-central Tibet from InSAR and GPS
Wang, Hua (1); Wright, Tim (2); Liu-Zeng, Jing (3) 1: Department of Surveying Engineering, Guangdong University of Technology, China, People's Republic of; 2: School of Earth and Environment, University of Leeds, UK; 3: Institute of Geology, China Earthquake Administration, China

16:10 Interseismic deformation along the Calaveras fault and refining the geometry of the Hayward-Calaveras stepover
Chaussard, Estelle (1); Bürgmann, Roland (1); Fattahi, Heresh (2); Johnson, Chris (1); Nadeau, Robert (1); Johanson, Ingrid (1) 1: UC Berkeley, United States of America; 2: University of Miami, FL, United States of America

16:30 Coffee Break

3.1.4 Applications: Earthquakes and Tectonics (5) (Big Hall 17:10-19:20)

Chairs: Fielding, Eric Jameson / Jonsson, Sigurjon

17:10 Quantifying the Extent of Fault Coupling and Aseismic Slip along the Central San Andreas Fault: a Bayesian Approach
Jolivet, Romain (1); Simons, Mark (2); Agram, Piyush (3); Duputel, Zacharie (4); Shen, Zheng-Kang (5) 1: Bullard Laboratories, Department of Earth Sciences, University of Cambridge, Madingley Road, CB3 0EZ, Cambridge, UK.; 2: Seismological Laboratory, Division of Geological and Planetary Sciences, California Institute of Technology, 1200 E California Blvd, Pasadena, CA 91125, USA; 3: Jet Propulsion Laboratory / Caltech, USA; 4: Institut de Physique du Globe de Strasbourg, UdS and EOST/CNRS UMR 7516, France; 5: Department of Earth and Space Sciences, University of California, Los Angeles, 595 Charles Young Drive East, Los Angeles, CA 90095-1567, USA.

17:30 The ICMT Catalogue: A 20-year Compilation of Earthquake Source Parameters from Published InSAR Studies
Funning, Gareth J (1); Ferreira, Ana M G (2); Weston, Jennifer (3); Shakibay Senobari, Nader (1) 1: University of California, Riverside, United States of America; 2: University College, London, United Kingdom; 3: Arizona State University, United States of America

17:50 Mid-term review results of the ESA STSE Pathfinder CHARMING project (Constraining Seismic Hazard Models with InSAR and GPS)
Merryman Boncori, John Peter (1); Devoti, Roberto (1); Visini, Francesco (1); Atzori, Simone (1); Pezzo, Giuseppe (1); Kastelic, Vanjia (1); Carafa, Michele Matteo Cosimo (1); Berardino, Paolo (2); Fornaro, Gianfranco (2); Riguzzi, Federica (1); Pietrantonio, Grazia (1); D'Amico, Vera (1); Meletti, Carlo (1); Salvi, Stefano (1); Fernandez Prieto, Diego (3) 1: Istituto Nazionale di Geofisica e Vulcanologia (INGV), Via di Vigna Murata 605, 00143 Rome, Italy; 2: Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA), Via Diocleziano 328, 80124 Naples, Italy; 3: ESA-ESRIN, Via Galileo Galilei, Casella Postale 64, 00044 Frascati, Italy

18:10 Gravitative deformation after the April 6 2009 L'Aquila Earthquake detected by CosmoSkyMed
Bignami, Christian (1); Albano, Matteo (1); Costantini, Mario (2); Malvarosa, Fabio (2); Moro, Marco (1); Saroli, Michele (3); Stramondo, Salvatore (1) 1: Istituto Nazionale d Geofisica e Vulcanologia, Italy; 2: E-GEOS S.pA.; 3: University of Cassino and Southern Lazio

18:30 Surface liquefaction effects detected and measured by DInSAR: 2012 Emilia (Italy) earthquake
Chini, Marco (1); Albano, Matteo (2); Saroli, Michele (3); Pulvirenti, Luca (4); Moro, Marco (2); Bignami, Christian (2); Falcucci, Emanuela (2); Gori, Stefano (2); Modoni, Giuseppe (3); Pierdicca, Nazzareno (5); Stramondo, Salvatore (2) 1: Centre de Recherche Public - Gabriel Lippmann, Luxembourg; 2: Istituto Nazionale di Geofisica e Vulcanologia, Italy; 3: University of

Cassino and Southern Lazio, Italy; 4: CIMA Research Foundation, Italy; 5: Sapienza University of Rome, Italy

18:50 Round Table

3.2.1 PSI and DInSAR (2) (Magellan 09:00-10:40)

Chairs: Crosetto, Michele / Casu, Francesco

09:00 A Minimum Curvature Combination Method for the Generation of Multi-platform DInSAR Deformation Time-Series
Pepe, Antonio (1); Solaro, Giuseppe (1); Dema, Claudio (2) 1: IREA, Italy; 2: Università della Basilicata, Italy

09:20 Demonstration of TerraSAR-X ScanSAR Persistent Scatterer Interferometry
Rodriguez Gonzalez, Fernando (1); Brcic, Ramon (1); Yague-Martinez, Nestor (1,2); Shau, Robert (1); Parizzi, Alessandro (1); Adam, Nico (1) 1: German Aerospace Center (DLR), Germany; 2: Technical University Munich (TUM), Germany

09:40 Towards the Integration of SAR Tomography and PSI for Improved Deformation Assessment in Urban Areas
Siddique, Muhammad Adnan (1); Hajnsek, Irena (1,2); Wegmuller, Urs (3); Frey, Othmar (1,3) 1: Earth Observation and Remote Sensing, ETH Zurich, Switzerland; 2: German Aerospace Center - DLR, Germany; 3: Gamma Remote Sensing AG, Switzerland

10:00 Deformation Monitoring of Urban Infrastructure by Tomographic SAR using Multi-view TerraSAR-X Data Stacks
Montazeri, Sina (1); Zhu, Xiao Xiang (1,2); Eineder, Michael (1); Hanssen, Ramon (3); Bamler, Richard (1,2) 1: Remote Sensing Technology Institute (IMF), German Aerospace Center (DLR), Oberpfaffenhofen, 82234 Wessling, Germany; 2: Helmholtz Young Investigators Group "SiPEO", Chair of Remote Sensing Technology, Technische Universität München (TUM); 3: Department of Geoscience and Remote Sensing, Delft University of Technology

10:20 Earthquake Damage Mapping using the Coherence of Persistent Scatterers
Wegmüller, Urs; Strozzi, Tazio; Werner, Charles Gamma Remote Sensing AG, Switzerland

10:40 Coffee Break

3.2.2 PSI and DInSAR (3) (Magellan 11:10-13:20)

Chairs: Hanssen, Ramon F / Perissin, Daniele

11:10 Big Data Processing for Nationwide Ground Deformation Monitoring by Persistent Scatterer Interferometry
Costantini, Mario e-GEOS - Italian Space Agency/Telespazio, Italy

11:30 A Cloud Computing Approach for Big DInSAR Data Processing through the P-SBAS Algorithm
Zinno, Ivana (1); Elefante, Stefano (1); Mossucca, Lorenzo (2); De Luca, Claudio (1,3); Manunta, Michele (1); Terzo, Olivier (2); Lanari, Riccardo (1); Casu, Francesco (1) 1: CNR - IREA, Italy; 2: Istituto Superiore Mario Boella; 3: Università degli studi di Napoli Federico II, DIETI

11:50 P-SBAS Service within ESA G-POD Platform for Unsupervised on Demand DInSAR Processing
De Luca, Claudio (1,4); Cuccu, Roberto (2); Elefante, Stefano (1); Manunta, Michele (1); Zinno, Ivana (1); Rivolta, Giancarlo (2,3); Lanari, Riccardo (1); Casu, Francesco (1); Casola, Valentina (4) 1: IREA-CNR, Italy; 2: ESA Research and Service Support, Italy; 3: Progressive Systems Srl, Italy; 4: University of Napoli Federico II, Italy

12:10 Connecting InSAR to a global geodetic datum: Towards absolute scatterer displacements
Mahapatra, Pooja; van der Marel, Hans; van Leijen, Freek; Samiei-Esfahany, Sami; Klees, Roland; Hanssen, Ramon Delft University of Technology, the Netherlands

12:30 A Probabilistic Approach for InSAR Time Series Post-processing
Chang, Ling; Hanssen, Ramon F Delft University of Technology (TU Delft), the Netherlands

12:50 Round Table

13:20 Lunch Break

3.2.3 Applications: Mapping (Magellan 14:30-16:40)

Chairs: Solberg, Svein / Antropov, Oleg

14:30 Forest storm damage mapping with InSAR
Solberg, Svein Norwegian Forest and Landscape Institute, Norway

14:50 TanDEM-X InSAR time series data in forest cover mapping in boreal zone
Antropov, Oleg (1,2); Rauste, Yrjö (1); Häme, Tuomas (1); Praks, Jaan (2) 1: VTT Technical Research Centre of Finland, Finland; 2: Aalto University, Department of Radio Science and Engineering

15:10 Temporal tracking of rice paddy heights with TanDEM-X
Rossi, Cristian (1); Erten, Esra (2) 1: German Aerospace Center (DLR), Germany; 2: Istanbul Technical University (ITU), Turkey

15:30 Bathymetric survey of small reservoirs based on Interferometry Synthetic Apertur Radar (InSAR) technique and TanDEM-X data
Zhang, Shuping (1,2); Medeiros, Pedro (3); de Araújo, José Carlos (4); Waske, Björn (2); Foerster, Saskia (1) 1: GFZ German Research center for Geoscience, Potsdam,Germany; 2: Institute of Geographical Sciences, Free University of Berlin,Germany; 3: Federal Institute of Education, Science and Technology of Ceará, Maracanaú, Brazil; 4: Department of Agricultural Engineering, Federal University of Ceará, Brazil

15:50 Extraction of Subsurface Features from InSAR-derived Digital Elevation Models
Xiong, Siting; Muller, Jan-Peter Imaging Group, Mullard Space Science Laboratory (MSSL), University College London, Department of Space & Climate Physics, , Holmbury St Mary, Surrey, RH5 6NT, UK

16:10 Round Table

16:40 Coffee Break

3.2.4 Applications: Subsidence and Landslides (1) (Magellan 17:10-19:20)

Chairs: Hooper, Andrew / Novali, Fabrizio

17:10 Multi-temporal SAR Monitoring: exploiting both amplitude and phase information
Rucci, Alessio; Ferretti, Alessandro; Fumagalli, Alfio; Novali, Fabrizio TRE s.r.l., Italy

17:30 Subsidence and associated shallow faulting hazard assessment in central Mexico using InSAR and GPS.
Cabral-Cano, Enrique (1); Solano-Rojas, Darío (2); Oliver, Talib (2); Wdowinski, Shimon (2); Chaussard, Estelle (3); Salazar-Tlaczani, Luis (1); Cigna, Francesca (4); DeMets, Charles (5); Pacheco-Martínez, Jesús (6) 1: Universidad Nacional Autonoma de Mexico, Mexico; 2: Rosenstiel School of Marine and Atmospheric Science, University of Miami; 3: Dept. of Earth and Planetary Science, University of California Berkeley; 4: British Geological Survey, Earth Hazards & Observatories, Earth and Planetary Observation and Monitoring; 5: Department of Geoscience, University of Wisconsin-Madison; 6: Departamento de Construcción y Estructuras, Universidad Autónoma de Aguascalientes

17:50 A New Mode of Sinkhole Formation along the Dead Sea Shorelines (Israel): Observations from InSAR, LiDAR, Time-lapse Field Camera, and Water Analysis
Baer, Gidon (1); Avni, Yoav (1); Shviro, Maayan (2); Nof, Ran (3); Gavrieli, Ittai (1); Lensky, Nadav (1); Yechieli, Yoseph (1); Haviv, Itai (2); Dente, Elad (1,4) 1: Geological Survey of Israel, Israel; 2: Ben Gurion University of the Negev, Israel; 3: Geophysical Institute of Israel; 4: Hebrew University, Jerusalem, Israel

18:10 Gazing at Grass: Estimating Surface Deformation over Fast-decorrelating Pasture using InSAR
Morishita, Yu (1,2); Hanssen, Ramon F (2) 1: Geospatial Information Authority of Japan (GSI); 2: Delft University of Technology (TU Delft), Netherlands, The

18:30 Comparison of X-Band, L-Band and C-band Radar images in monitoring subsidence in agricultural area
Zohari, Moein (1,3); Motagh, Mehdi (2); Esmaili, Mostafa (1,3); Mojaradi, Barat (4) 1: Geomatics Department, College of Engineering, University of Tehran, Tehran, Iran; 2: Physics of the Earth Department, GFZ Institute, Germany; 3: Iranian Space Research Institute, Remote Sensing and GIS Department, Tehran ,Iran; 4: Department of Civil Engineering, University of Science and Technology

18:50 Round Table

Oral Presentations Thursday 26 March 2015

4.1.1 Applications: Subsidence and Landslides (2) (Big Hall 09:00-11:00)

Chairs: Pasquali, Paolo / Catalão, João

09:00 Studying aquifer properties in the Los Angeles Basin using InSAR time-series
Agram, Piyush (1); Simons, Mark (2); Jolivet, Romain (2,3) 1: JPL, United States of America; 2: Caltech, United States of America; 3: University of Cambridge, United Kingdom

09:20 Determining Aquifer Deformational Behavior: Madrid Aquifer Case Study
Ezquerro, Pablo (1,2,5); Herrera, Gerardo (2,4,5); Marchamalo, Miguel (1,2,5); Tomas, Roberto (3,5,6); Bejar-Pizarro, Marta (2,3,5); Martínez, Rubén (1,5) 1: Technical University of Madrid. Laboratorio de Topografía y Geomática. ETSI Caminos, Canales y Puertos, Spain; 2: Geohazards InSAR laboratory and Modeling group (InSARlab), Geoscience research department, Geological Survey of Spain (IGME), Spain; 3: Unidad Asociada de investigación IGME-UA de movimientos del terreno mediante interferometría radar (UNIRAD), Spain; 4: Earth Observation and Geohazards Expert Group (EOEG), EuroGeoSurveys, the Geological Surveys of Europe, Belgium; 5: Grupo español de trabajo en subsidencia del terreno (SUBTER), UNESCO, Spain; 6: Departamento de Ingeniería Civil, Escuela Politécnica Superior, Universidad de Alicante, Spain

09:40 Ground Deformation Monitoring at Natural Gas Production Sites Using Interferometric SAR
Goel, Kanika; Adam, Nico German Aerospace Center (DLR), Germany

10:00 Verification of Satellite Interferometry for Dam Surveillance
Cetinic, Frano (1); Larsen, Yngvar (1,2); Lauknes, Tom Rune (1,2); Lier, Øyvind (3); Ekström, Ingvar (3) 1: Globesar, Norway; 2: Norut, Norway; 3: SWECO, Sweden

10:20 Merging Ground-based and spaceborne InSAR data to monitor an earth dam
Mascolo, Luigi (1); Nico, Giovanni (2); Pitullo, Alfredo (3) 1: DIAN srl, Italy; 2: Consiglio Nazionale delle Ricerche, Italy; 3: Consorzio di Bonifica di Capitanata, Italy

10:40 Potential of Multi-temporal InSAR Techniques for Structural Health Monitoring
Lazecky, Milan (1,2); Bakon, Matus (2,3); Sousa, Joaquim J. (2,4); Perissin, Daniele (5); Hlavacova, Ivana (6,2); Patricio, Gloria (7,8); Papco, Juraj (3) 1: IT4Innovations, VSB-TU Ostrava, 17. listopadu 15, 708 00 Ostrava-Poruba, Czech Republic; 2: Universidade de Tras-os-Montes e Alto Douro, UTAD, Quinta de Prados, 5000-801 Vila Real, Portugal; 3: Department of Theoretical Geodesy, Slovak University of Technology, Radlinskeho 11, 813 68 Bratislava, Slovakia; 4: INESC TEC - INESC Technology and Science (formerly INESC Porto); 5: School of Civil Engineering, Purdue University, 550 Stadium Mall Drive, West Lafayette, IN47907, Office: HAMP 4106, USA; 6: Czech Technical University in Prague, Faculty of Civil Engineering, Thakurova 7, 166 29 Praha 6, Czech Republic; 7: Research Unit for Inland Development, Polytechnic Institute of Guarda, Av. Dr. Francisco Sa Carneiro nº50, 6300-559 Guarda, Portugal; 8: Departamento de Geociencias, Ambiente e Ordenamento do Territorio, Faculdade de Ciencias, Universidade do Porto, Portugal

11:00 Coffee Break

4.1.2 Applications: Subsidence and Landslides (3) (Big Hall 11:30-13:30)

Chairs: Strozzi, Tazio / Lauknes, Tom Rune

11:30 Improved PSI Performance for Landslide Monitoring Applications
Duro, Javier; Iglesias, Rubén; Blanco-Sánchez, Pablo; Sánchez, Francisco; Albiol, David Altamira-Information, Spain

11:50 PSI for Landslide Hazard Assessment and Monitoring: Current Issues, Underexploited and Future Application Opportunities
Wasowski, Janusz (1); Bovenga, Fabio (2); Nutricato, Raffaele (3); Nitti, Davide Oscar (3); Chiaradia, Maria Teresa (4) 1: CNR-IRPI, Italy; 2: CNR-ISSIA, Italy; 3: GAP srl, c/o Politecnico di Bari; 4: Politecnico di Bari

12:10 Evaluation of the Use of the sub-Pixel Offset Tracking Method with Conventional dInSAR Techniques to Monitor Landslides in Densely Vegetated Terrain in the Three Gorges Region, China
Sun, Luyi; Muller, Jan-Peter Mullard Space Science Laboratory, Dept. of Space and Climate Physics, University College London, United Kingdom

12:30 Landslide Monitoring in Three Gorges Area by Joint Use of Phase Based and Amplitude Based Methods
Shi, Xuguo (1); Zhang, Lu (1,2); Liao, Mingsheng (1,2); Balz, Timo (1,2) 1: Wuhan University, China, People's Republic of; 2: Collaborative Innovation Center for Geospatial Technology, China, People's Republic of

12:50 Slow-moving Landslide Monitoring with Multi-temporal TerraSAR-X data by means of DInSAR Techniques in Crotone Province (Southern Italy)
Confuorto, Pierluigi (1); Plank, Simon (2); Di Martire, Diego (1); Calcaterra, Domenico (1); Thuro, Kurosch (3); Ramondini, Massimo (1) 1: Federico II University of Napoli, Italy; 2: German Remote Sensing Data Center, (DFD), German Aerospace Center (DLR) (Germany); 3: Chair for Engineering Geology, Technische Universität München (TUM) (Germany)

13:10 Retrieving 3D deformation pattern of a landslide with hi-resolution InSAR and in-situ measurements: "Just landslide" case-study
Perski, Zbigniew (1); Wojciechowski, Tomasz (1); Marinkovic, Petar (2); Michalski, Andrzej (1); Chowaniec-Tobiasz, Katarzyna (1); Nescieruk, Piotr (1) 1: Polish Geological Institute - National Research Institute, Poland; 2: PPO.Labs, The Netherlands

13:30 Lunch Break

4.1.3 Applications: Subsidence and Landslides (4) (Big Hall 14:40-16:50)

Chairs: Hooper, Andrew / Perski, Zbigniew

14:40 InSAR Processing Challenges in Arctic Landscapes
Lauknes, Tom Rune (1); Larsen, Yngvar (1); Dehls, John (2) 1: Norut; 2: Geological Survey of Norway

15:00 Glacier Lake and Slope Stability Monitoring
Strozzi, Tazio (1); Wiesmann, Andreas (1); Caduff, Rafael (1); Frey, Holger (2); Huggel, Christian (2); Kääb, Andreas (3) 1: Gamma Remote Sensing and Consulting AG, Switzerland; 2: Department of Geography, University of Zurich, Switzerland; 3: Department of Geosciences, University of Oslo, Norway

15:20 Advanced Numerical Modelling for Slow Landslide Analyses through the Effective Integration of SBAS-DInSAR and in situ Observations: the Case Study of Ivancich Landslide (Assisi, Italy)
Castaldo, Raffaele (1); Tizzani, Pietro (1); De Novellis, Vincenzo (1); Lollino, Piernicola (2); Manunta, Michele (1) 1: IREA-CNR, Italy; 2: IRPI-CNR, Italy

15:40 Three-dimensional Imaging for Rapid Motion of the Slumgullion Landslide, Colorado, with COSMO-SkyMed and UAVSAR
Fielding, Eric Jameson (1); Delbridge, Brent (2); Milillo, Pietro (3); Bürgmann, Roland (2); Hensley, Scott (1); Agram, Piyush S. (1); Minchew, Brent (4); Riel, Bryan Valmonte (4) 1: Jet Propulsion Lab, Caltech, Pasadena, Calif., United States of America; 2: University of California, Berkeley, Calif., United States of America; 3: University of Basilicata, Potenza, Italy; 4: California Institute of Technology, Pasadena, Calif., United States of America

16:00 Use of Space-borne InSAR data to Optimize Landslide Numerical Models: the example of an Ancient Landslide in El Portalet, Central Pyrenees, Spain
Manconi, Andrea (1); Lollino, Piernicola (1); Duro, Javier (2); Mondini, Alessandro (1); Guzzetti, Fausto (1) 1: CNR IRPI, Italy; 2: Altamira Information, Spain

16:20 Round Table

Poster session 2

4.2.1 Applications: Volcanoes (1) (Magellan 09:00-11:00)

Chairs: Wauthier, Christelle / Puglisi, Giuseppe

09:00 Volcano Monitoring on a Regional Scale: Results from the CEOS DRM Volcano Pilot
Arnold, David (1); Biggs, Juliet (1); Delgado, Francisco (2); Pritchard, Matt (2); Ebmeier, Susanna K. (1) 1: University of Bristol, United Kingdom; 2: Cornell University

09:20 InSAR Imaging of Aleutian Volcanoes: Monitoring a Volcanic Arc from Space
Lu, Zhong (1); Dzurisin, Dan (2) 1: Southern Methodist Univ, United States of America; 2: US Geological Survey, United States of America

09:40 Application of satellite and airborne InSAR to volcano deformation processes in the Pacific Rim
Lundgren, Paul R (1); Milillo, Pietro (1,2); Kiryukhin, Alexey (3); Samsonov, Sergey (4); Gil, Fernando (5); Cordova, Maria (5); Owen, Susan (1); Tanaka, Akiko (6) 1: Jet Propulsion Laboratory, California Institute of Technology, United States of America; 2: Scuola di Ingegneria, Università degli Studi della Basilicata, Potenza, Italy; 3: Institute of Volcanology & Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia; 4: Canada Centre for Remote Sensing, Ottawa, ON, Canada; 5: Observatorio Vulcanológico de los Andes del Sur, SERNAGEOMIN, Temuco, Chile; 6: Geological Survey of Japan, AIST, Tsukuba, Japan

10:00 Deep looks into explosive volcano craters by high resolution SAR observations
Walter, Thomas R. GFZ Potsdam, Germany

10:20 The Chiles – Cerro Negro Volcanoes Unrest: Application of InSAR, In-situ Geodesy, and Other Observations to an Evolving Crisis
Lundgren, Paul (1); Milillo, Pietro (1,2); Mothes, Patricia (3); Medina, Lourdes Narváez (4); Laverde, Carlos (4); Wessels, Rick (5); Amelung, Falk (6); Samsonov, Sergey (7); Tanaka, Akiko (8); Owen, Susan (1); Biggs, Juliet (9); Ebmeier, Susanna K. (9); Parker, Amy (9); Battaglia, Maurizio (10,11); Prejean, Stephanie (12); Lyons, John (12) 1: Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, United States of America; 2: Scuola di Ingegneria, Università degli Studi della Basilicata, Potenza, Italy; 3: Instituto Geofisico, Escuela Politécnica Nacional, Quito, Ecuador; 4: Servicio Geológico Colombiano, Observatorio Vulcanológico y Sismológico de Pasto, Pasto, Colombia; 5: Volcano Disaster Assistance Program, US Geological Survey, Reston, VA, USA; 6: Marine Geology and Geophysics – RSMAS, University of Miami, Miami, FL, USA; 7: Canada Centre for Remote Sensing, Ottawa, Canada; 8: Geological

Survey of Japan, AIST, Tsukuba, Japan; 9: School of Earth Sciences, University of Bristol, Bristol, UK; 10: Volcano Science Center, US Geological Survey, Menlo Park, CA, USA; 11: Department of Earth Sciences, Sapienza – University of Rome, Rome, Italy; 12: Volcano Science Center, US Geological Survey, Anchorage, AK, USA

10:40 Measuring Topographic Changes at Active Volcanoes by Double Differential TanDEM-X InSAR
Kubanek, Julia; Westerhaus, Malte; Heck, Bernhard Karlsruhe Institute of Technology (KIT), Germany

11:00 Coffee Break

4.2.2 Applications: Volcanoes (2) (Magellan 11:30-13:30)

Chairs: Puglisi, Giuseppe / Lu, Zhong

11:30 Ten years of InSAR in the Kivu Rift basin : Results and Perspectives
Kervyn, François (1); D'Oreye, Nicolas (2,3); Albino, Fabien (1); Derauw, Dominique (4); Cayol, Valerie (5); Arjona, Alicia (3); Nobile, Adriano (1) 1: Royal Museum for Central Africa. Earth Science Dept. Belgium; 2: National Museum of Natural History. GD Luxemburg; 3: European Center of Geodynamic and Seismology. GD Luxemburg; 4: Centre Spatial de Liège. Belgium; 5: Laboratoire Magmas et Volcans. France

11:50 High-resolution InSAR time series analysis following the 2011 eruption of Nabro Volcano, Eritrea: Implications for the mechanisms of post-eruptive subsidence.
Hamlyn, Joanna Elizabeth (1); Wright, Tim J. (1); Keir, Derek (2); Pagli, Carolina (3); Neuberg, Jurgen W. (1); Grandin, Raphael (4); Sansosti, Eugenio (5); Pepe, Susi (5); Casu, Francesco (5); Walters, Richard (1); Carboni, Elisa (6); Grainger, Roy (6); Goitom, Berhe (7); Hammond, James. O. S (8); Oppenheimer, Clive (9); Kendall, Michael (7); Parker, Amy (7); Biggs, Juliet (7) 1: COMET, School of Earth and Environment, University of Leeds, Leeds, UK.; 2: National Oceanography Centre Southampton, University of Southampton, Southampton, UK.; 3: Dipartimento di Scienze della Terra, Universita di Pisa, Pisa, Italia.; 4: Institut de Physique du Globe de Paris (IPGP), Paris, France.; 5: Istituto per il Rilevamento Elettromagnetico dell'Ambiente, Consiglio Nazionale delle Ricerche, (IREA-CNR) Napoli, Italia; 6: Department of Physics, University of Oxford, Oxford, UK.; 7: School of Earth Sciences, University of Bristol, Bristol, UK.; 8: Department of Earth Science and Engineering, Imperial College London, London UK.; 9: Department of Geography, University of Cambridge, Cambridge, UK.

12:10 Magma-Tectonic Processes in Kīlauea's Upper Rift Zones Revealed by the Modeling of Geodetic and Volcano-Tectonic Seismic Datasets
Wauthier, Christelle (1); Roman, Diana (2); Poland, Michael P. (3); Miklius, Asta (3); Hooper, Andy (4); Fukushima, Yo (5); Cayol, Valerie (6) 1: The Pennsylvania State University, United States of America; 2: The Carnegie Institution of Washington, United States of America; 3: Hawaiian Volcano Observatory, USGS, United States of America; 4: University of Leeds, UK; 5: Tohoku University, Japan; 6: Lab. Magmas et Volcans, Univ. Blaise Pascal, France

12:30 Analysis of unrest episodes in the last decade at Mauna Loa volcano through the use of multi-temporal and multi-platform InSAR data
Pepe, Susi (1); Castaldo, Raffaele (1); Casu, Francesco (1); D'Auria, Luca (2,1); De Luca, Claudio (1); De Novellis, Vincenzo (1); Sansosti, Eugenio (1); Solaro, Giuseppe (1); Tizzani, Pietro (1); Zeni, Giovanni (1) 1: IREA - CNR, Italy; 2: Osservatorio Vesuviano sezione di Napoli INGV, Italy

12:50 Measuring Volcanic Deformation at Unimak Island from 2003 to 2010 Using Weather Model-assisted Time Series InSAR
Gong, Wenyu (1); Meyer, Franz Josef (1); Lee, Chang-wook (2); Lu, Zhong (3); Freymueller, Jeffrey (1) 1: University of Alaska Fairbanks, United States of America; 2: Korea Meteorological Administration, the Republic of Korea; 3: Southern Methodist University,United States of America

13:10 Imaging the episodic growth of a magmatic reservoir beneath the megacity of Naples
D'Auria, Luca (1,2); Pepe, Susi (2); Castaldo, Raffaele (2); Zinno, Ivana (2); Macedonio, Giovanni (1); Giudicepietro, Flora (1); Casu, Francesco (2); Manzo, Mariarosaria (2); Sansosti, Eugenio (2); Lanari, Riccardo (2); Tizzani, Pietro (2) 1: Osservatorio Vesuviano sezione di Napoli INGV, Italy; 2: IREA -CNR, Italy

13:30 Lunch Break

4.2.3 Applications: Volcanoes (3) (Magellan 14:40-16:50)

Chairs: Lundgren, Paul R / d'Oreye, Nicolas F

14:40 PS-InSAR Measurements at the Most Active Volcanoes in Iceland: Role of Interferometric Synthetic Aperture Radar in Deformation Monitoring at Bárðarbunga, Askja, Hekla, Katla and Eyjafjallajökull Volcanoes
Parks, Michelle M (1); Dumont, Stéphanie (1); Drouin, Vincent (1); Sigmundsson, Freysteinn (1); Spaans, Karsten (2); Hooper, Andrew (2); Ófeigsson, Benedikt (3); Hreinsdóttir, Sigrún (4); Árnadóttir, Thóra (1); Hjaltadóttir, Sigurlaug (1,3); Michalczewska, Karolina (1);

Hjartardóttir, Ásta Rut (1); Geirsson, Halldór (5); LaFemina, Pete (5); Sturkell, Erik (6); Magnússon, Eyjólfur (1); Friðriksdóttir, Hildur María (1,3); Vogfjörd, Kristín S (3); Guðmundsson, Gunnar B (3); Jónsdóttir, Kristín (3); Hensch, Martin (3) 1: Nordic Volcanological Center, Institute of Earth Sciences, University of Iceland, IS-101 Reykjavík, Iceland; 2: COMET, School of Earth and Environment, University of Leeds, Leeds, LS2 9JT, UK; 3: Icelandic Meteorological Office, IS-150 Reykjavík, Iceland; 4: GNS Science, Avalon 5010, Lower Hutt, New Zealand; 5: The Pennsylvania State University, University Park, Pennsylvania 16802, USA; 6: University of Gothenburg, SE-405 30 Gothenburg, Sweden

15:00 The Ongoing Collapse of Bárðarbunga Caldera, Iceland
Riel, Bryan Valmonte (1); Milillo, Pietro (1,2); Simons, Mark (1); Lundgren, Paul (3); Samsonov, Sergey (4) 1: California Institute of Technology, United States of America; 2: Scuola di Ingegneria, Università degli Studi della Basilicata, Italy; 3: Jet Propulsion Laboratory, United States of America; 4: Canada Centre for Mapping and Earth Observation, Natural Resources, Canada

15:20 Deformation models for the 2014 Bárðarbunga dyke intrusion and caldera collapse in Iceland
Hooper, Andrew (1); Sigmundsson, Freysteinn (2); Hreinsdóttir, Sigrún (3); Ófeigsson, Benedikt (4); Heimisson, Elías Rafn (1); Dumont, Stéphanie (1); Parks, Michelle M (1); Spaans, Karsten (2); Drouin, Vincent (1); Árnadóttir, Thóra (1) 1: COMET, School of Earth and Environment, University of Leeds, Leeds, LS2 9JT, UK; 2: Nordic Volcanological Center, Institute of Earth Sciences, University of Iceland, IS-101 Reykjavík, Iceland; 3: GNS Science, Avalon 5010, Lower Hutt, New Zealand; 4: Icelandic Meteorological Office, IS-150 Reykjavík, Iceland

15:40 Constraints from satellite radar interferometry on the plumbing system feeding the 2014 fissure eruption at Holuhraun, Bárðarbunga volcanic system, Iceland
Dumont, Stéphanie (1); Parks, Michelle M (1); Sigmundsson, Freysteinn (1); Drouin, Vincent (1); Hreinsdóttir, Sigrun (2); Ófeigsson, Benedikt (3); Hooper, Andrew (4); Spaans, Karsten (4); Heimisson, Elías Rafn (1); Vogfjörd, Kristín (3); Hensch, Martin (3); Hjartardóttir, Ásta Rut (1); Magnússon, Eyjólfur (1) 1: Nordic Volcanological Center, Institute of Earth Sciences, University of Iceland, Reykjavík, Iceland; 2: GNS Science, Avalon 5010, Lower Hutt, New Zealand; 3: Icelandic Meteorological Office, IS-150 Reykjavík, Iceland; 4: COMET, School of Earth and Environment, University of Leeds, Leeds, LS2 9JT, UK

16:00 Rapid InSAR processing as a volcano monitoring tool
Spaans, Karsten; Hooper, Andy COMET, School of Earth and Environment, University of Leeds, United Kingdom

16:20 Round Table

Oral Presentations Friday 27 March 2015

5.1.1 Mission Exploitation (Big Hall 09:00-11:00)

Chairs: Prats-Iraola, Pau / Coletta, Alessandro

09:00 SAOCOM 1A Interferometric Error Model and Analysis
Euillades, Pablo Andrés (1); Euillades, Leonardo Daniel (1); Azcueta, Mario (2); Sosa, Gustavo Javier (3) 1: Instituto CEDIAC - FI - Universidad Nacional de Cuyo & CONICET; 2: Comisión Nacional de Actividades Espaciales de Argentina; 3: Instituto CEDIAC - FI - Universidad Nacional de Cuyo

09:20 InSAR Sensitivity Analysis of Tandem-L Mission for Modeling Volcanic and Seismic Deformation Sources
Ansari, Homa (1,2); Goel, Kanika (1); Parizzi, Alessandro (1); Sudhaus, Henriette (3); Adam, Nico (1); Eineder, Michael (1) 1: (1) Remote Sensing Technology Institute (IMF), German Aerospace Center (DLR), Wessling, Germany; 2: (2) Chair of Remote Sensing Technology (LMF), Technical University of Munich (TUM), Munich, Germany; 3: (3) Department of Physics of the Earth, German Research Centre for Geosciences (GFZ), Potsdam, Germany

09:40 Mitigation of Volcanic risk: the COSMO-SkyMed contribution
Sacco, Patrizia; Daraio, Maria Girolamo; Battagliere, Maria Libera; Coletta, Alessandro Italian Space Agency, Italy

10:00 TanDEM-X Mission Status: DEM Data Acquisition and Science Phase
Böer, Johannes; Bräutigam, Benjamin; Borla Tridon, Daniela; Schulze, Daniel; Bachmann, Markus; Zink, Manfred German Aerospace Center (DLR), Germany

10:20 Global Maps from Interferometric TanDEM-X Data: Applications and Potentials
Rizzoli, Paola; Martone, Michele; Bräutigam, Benjamin; Zink, Manfred German Aerospace Center DLR, Germany

10:40 Biomass, a polarimetric interferometric P-band SAR mission
Arcioni, Marco (1); Bensi, Paolo (1); Fehringer, Michael (1); Fois, Franco (2); Heliere, Florence (1); Miranda, Nuno (1); Scipal, Klaus (1) 1: ESA; 2: RHEA System

11:00 Coffee Break

5.1.2 Session Summaries (Big Hall 11:30-13:00)

Chairs: Desnos, Yves-Louis / Engdahl, Marcus

11:30 INSAR with Sentinel-1
11:40 Coherence Exploitation
11:50 InSAR Theory and Techniques: General
12:00 PSI and DinSAR
12:10 Cryosphere
12:20 Mapping
12:30 Earthquakes and Tectonics
12:40 Volcanoes
12:50 Subsidence and Landslides

Poster Presentations Tuesday 24 March 2015

1 viStaMPS – The InSAR Collaborative Project
Sousa, Joaquim João (1); Guimarães, Pedro (1); Sousa, Antonio (1); Ruiz, Antonio M. (2); Patrício, Glória (3); Magalhães, Luís (4) 1: University of Trás-os-Montes e Alto Douro, Portugal; 2: University of Jaén; 3: Instituto Politécnico da Guarda; 4: Universidade do Minho

2 PGI's open source toolbox for interferometric time-series processing and data analysis: status review
Perski, Zbigniew (1); Marinkovic, Petar (2) 1: Polish Geological Institute - National Research Institute, Poland; 2: PPO.Labs, The Netherlands

3 Sentinel-1 support in the GAMMA Software
Wegmüller, Urs; Werner, Charles; Strozzi, Tazio; Wiesmann, Andreas; Frey, Othmar Gamma Remote Sensing AG, Switzerland

4 Efficient Focusing, Interferometry and Interferometric Stacking of Sentinel-1 IWS TOPS Data
Cantone, Alessio (1); Peternier, Achille (1); Pasquali, Paolo (1); De Filippi, Marco (1); Riccardi, Paolo (1); Vitulli, Raffaele (2) 1: sarmap s.a., Switzerland; 2: ESA ESTEC

5 Interferometric Processing of SLC Sentinel-1 TOPS Data
Grandin, Raphael Institut de Physique du Globe de Paris, France

6 RSF: A robust non-parametric phase filtering method for automatic processing of Sentinel-1 interferograms
González, Pablo J. University of Leeds, United Kingdom

7 Automated generation of near-realtime, optimum accuracy movement products with Sentinel-1A IW data
Rabus, Bernhard Theodor (1,2); Ghuman, Parwant Singh (1) 1: 3vGeomatics Inc; 2: Simon Fraser Univsersity (SFU)

8 The Cloud4SAR Interferometry Challenge within the ESA e-Collaboration for Earth Observation (E-CEO) project
Casu, Francesco (1); Manunta, Michele (1); Boissier, Enguerran (2); Brito, Fabrice (2); Aas, Christina (3); Lavender, Samantha (4); Ribeiro, Rita (5); Farres, Jordi (6); Mathieu, Pierre Philippe (6) 1: CNR - IREA, Italy; 2: Terradue UK Ltd; 3: Science and Technology AS; 4: Pixalytics Ltd; 5: UNINOVA; 6: ESA - ESRIN

9 A Parallel Computational Model for Multichannel Phase Unwrapping Problem
Imperatore, Pasquale; Pepe, Antonio; Lanari, Riccardo IREA-CNR, Via Diocleziano 328, 80124 Napoli, Italy

10 Unwrapping using Mixed Mathematical Arts (MMA)
Grydeland, Tom; Larsen, Yngvar; Lauknes, Tom Rune Norut, Norway

11 2D Phase Unwrapping by fusion Cut-Line and Quality-Maps
HOCINE, Faiza; BELHADJ-AISSA, Sawssen; FEKIR, Mohamed; BELHADJ-AISSA, Aichouche University of Science and Technology Houari Boumediene (USTHB), Algeria

12 Phase unwrapping with reformulated MCF using Anchor Points
Gara, Mateusz; Ghuman, Parwant Singh 3v Geomatics, Canada

13 On resolving the Local Oscillator drift induced phase ramps in ASAR and ERS1/2 interferometric data - the final solution
Marinkovic, Petar (1); Larsen, Yngvar (2) 1: PPO.labs, The Netherlands; 2: Norut, Norway

14 Impact of BAQ level on InSAR performance of RADARSAT-2 extended swath beam modes.
Eppler, Jayson; Kubanski, Mike MDA Systems Ltd., Canada

15 New Coherence Algorithm for High Motion Areas
zimmer, Aaron Alan; Rabus, Bernhard Theodor 3vGeomatics inc., Canada

16 Exploiting Fringe Frequency Information for Geophysical Modelling
Parizzi, Alessandro; Eineder, Michael DLR, Germany

17 Decorrelating Clutter Statistics for Long Integration Time SAR Imaging
Leanza, Antonio (1); Monti Guarnieri, Andrea (1); Recchia, Andrea (1); Broquetas Ibars, Antoni (2); Ruiz Rodon, Josep (2) 1: Politecnico di Milano, Italy; 2: Universitat Politecnica de Catalunya, Spain

18 Correction of Ionospheric Phase Screen in Differential Interferograms Using Range Split-Band Technique
Gomba, Giorgio; Eineder, Michael German Aerospace Center (DLR), Germany

19 Influence of GNSS Configuration and Map Interpolation Method on INSAR Atmospheric Phase Assessment
Simonetto, Elisabeth (1); Morel, Laurent (1); El Hamri, Yassine (1); Durand, Stéphane (1); Durand, Frédéric (1); Froger, Jean-Luc (2); Polidori, Laurent (1); Nicolas-Duroy, Joelle (1) 1: ESGT- CNAM, France; 2: LMV - OPGC - Univ. Blaise Pascal, France

20 A NWM–based correction for water vapour in InSAR retrievals
Crippa, Paola (1); Li, Zhenhong (1); Wadge, Geoff (2) 1: Newcastle University, United Kingdom; 2: University of Reading, United Kingdom

21 High-Resolution Numerical Weather Prediction of Soufrière Hills Volcano, Montserrat for InSAR Atmospheric Correction
Webb, Thomas Lloyd University of Reading, United Kingdom

22 Assessment of Atmospheric Column Water Vapor Effect on Displacement Interferometric Estimations in DInSAR Method (ASAR Sensor)
Pakdaman, Mohamad Sadeq; Almodaresi, Sayyed Ali; Sarkargar Ardakani, Ali Department of Remote Sensing and GIS, Faculty of

Engineering, Yazd Branch, Islamic Azad University, Yazd, Iran

23 Constructing high-resolution maps of atmospheric water vapor using InSAR
Alshawaf, Fadwa Karlsruhe Institute of Technology, Germany

24 Enhancement of SnowScat for tomographic observation capabilities
Frey, Othmar (1); Werner, Charles L. (2); Wiesmann, Andreas (2) 1: Gamma Remote Sensing AG, Switzerland, Earth Observation & Remote Sensing, ETH Zurich, Switzerland; 2: Gamma Remote Sensing AG, Switzerland

25 Texture Free Radargrammetric Processing of Opposite-View TomoSAR Data for DEM Estimation
Banda, Francesco; Tebaldini, Stefano Politecnico di Milano, Italy

26 Improved Topographic Mapping Through Multi-baseline InSAR with MAP Estimation
Dong, Yuting (1); Jiang, Houjun (1); Zhang, Lu (1,2); Liao, Mingsheng (1,2); Shi, Xuguo (1) 1: State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, Wuhan University, Wuhan, China; 2: Collaborative Innovation Center for Geospatial Technology, Wuhan, China

27 MTInSAR model for joint estimation of deformation, topographic residual and orbit error: an update
Zhang, Lei (1); Ding, Xiaoli (1); Lu, Zhong (2); Hu, Jun (1,3) 1: The Hong Kong Polytechnic University, Hong Kong S.A.R. (China); 2: Southern Methodist University, USA; 3: Central South University, China

28 Quality and accuracy evaluation of a new improved baseline estimation method by using different external DEMs in different terrain areas
Feng, Lang; Muller, Jan-Peter Mullard Space Science Laboratory University College London, United Kingdom

29 Evaluation of High Resolution TanDEM-X DEM and its implications to InSAR Applications
Li, Zhenhong (1); Motagh, Mahdi (2); Li, Peng (3) 1: COMET, School of Civil Engineering and Geosciences, Newcastle University, United Kingdom; 2: Department of Geodesy and Remote Sensing, Helmholtz Center Potsdam, GFZ German Research Center for Geosciences, Germany; 3: GNSS Research Center, Wuhan University, China

30 Application of ERS-ENVISAT cross-interferometry for DEM construction over the Amery Ice Shelf, East Antarctica
Cheng, Xiao; Cheng, Cheng Beijing Normal University, China, People's Republic of

31 Mitigation of atmospheric phase delay in InSAR time series using ERA-interim model and MODIS data: application to the permafrost deformation in Hurd peninsula, Antarctica.
Reis, Ana Rita (1); Catalão, João (1); Vieira, Gonçalo (2); Nico, Giovanni (3) 1: IDL, Faculty of Sciences of the University of Lisbon, Portugal; 2: CEG/IGOT-University of Lisbon, Portugal,; 3: Consiglio Nazionale delle Ricerche (CNR), Instituto per le Applicazioni del Calcolo (IAC) - Bari, Italy,

32 Grounding line derivation over the Antarctic Ice Sheet from TerraSAR-X
Baessler, Michael; Floricioiu, Dana; Abdel Jaber, Wael German Aerospace Center (DLR), Germany

33 Surface deformation and hydraulic features of land terminating glaciers in Greenland observed by TerraSAR-X and TanDEM-X
Nagler, Thomas (1); Hetzenecker, Markus (1); Rott, Helmut (1); Floricioiu, Dana (2); Wuite, Jan (1) 1: ENVEO IT GmbH, Austria; 2: Remote Sensing Technology Institute, DLR, Germany

34 Evaluation of X-band InSAR technique for monitoring seasonal surface elevation change in a permafrost landscape, Barrow, Alaska
Haghshenas Haghighi, Mahmud (1); Motagh, Mahdi (1); Heim, Birgit (2); Streletskiy, Dmitry (3); Grosse, Guido (2); Bartsch, Annett (4) 1: Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum GFZ, Potsdam, Germany; 2: Alfred Wegener Institute Helmholtz-Center for Polar and Marine Research, Potsdam, Germany; 3: George Washington University, Washington, DC, United States; 4: Vienna University of Technology, Vienna, Austria

35 Evaluation of Interferometric Coherence over Polar Regions with Space-based Quadruple Polarimetric Synthetic Aperture Radar
Hong, Sang-Hoon (1,2); Wdowinski, Shimon (2); Atwood, Don (3); Park, Jeong-Won (1) 1: Korea Polar Research Institute, Korea, Republic of (South Korea); 2: University of Miami, U.S.A.; 3: Michigan Tech Research Institute, U.S.A.

36 Ice sheet velocity estimation from Sentinel-1 data
Lemos, Adriano; Shepherd, Andrew; McMillan, Malcolm University of Leeds, United Kingdom

37 Ice Velocity, Grounding Line, and Calving Front from Satellite SAR Data – Overview of a NASA MEaSUREs Project
Scheuchl, Bernd (1); Mouginot, Jeremie (1); Rignot, Eric (1,2); Millan, Romain (1) 1: University of California, Irvine, United States of America; 2: Caltech's Jet Propulsion Laboratory, United States of America

38 Ice elevation, volume and mass changes 2000 - 2012 of glaciers in South Chile from TanDEM-X and SRTM data
Saß, Björn Lukas (1); Floricioiu, Dana (2); Abdel Jaber, Wael (2); Braun, Matthias (1) 1: University of Erlangen, Institute of Geography; 2: German Aerospace Center, Remote Sensing Technology Institute

39 Ice Displacement Time-series Generation Over the Viedma Glacier (Argentina) through High Resolution SAR data
Euillades, Leonardo Daniel (1,2); Euillades, Pablo Andrés (1,2); Riveros, Natalia Cecilia (1); Casu, Francesco (3); Elefante, Stefano (3); Masiokas, Mariano (4); Pite, Pierre (4); Ruiz, Lucas Ernesto (4) 1: Instituto CEDIAC, Facultad de Ingeniería, Universidad Nacional de Cuyo, Mendoza, Argentina; 2: CONICET, Argentina; 3: Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA-CNR), Napoli, Italy; 4: Instituto Argentino de Nivología, Glaciología y Ciencias Ambientales (IANIGLA), CCT CONICET Mendoza, Argentina

40 Estimation and Analysis of the Thickness Changes of Mountain Glacier with Satellite InSAR Data
zhou, jianmin; li, zhen Institute of Remote sensing and Digital Earth/CAS, China, People's Republic of

41 Elevation changes of surge-type glaciers in the Karakoram region inferred from TanDEM-X InSAR
Rankl, Melanie; Vijay, Saurabh; Braun, Matthias University of Erlangen, Germany

42 A Decade of Seasonal and Interannual Surface Velocity Variations of Inylchek Glacier, Central Asia, Investigated by ENVISAT and TerraSAR-X Radar Data
Neelmeijer, Julia; Motagh, Mahdi GFZ German Research Centre for Geosciences, Potsdam, Germany

43 Monitoring Surface Displacements on Alpine Glaciers: Joint Exploitation of Photogrammetric Techniques and Ground Based Radar Interferometry
Manconi, Andrea (1); Giordan, Daniele (1); Allasia, Paolo (1); Caduff, Rafael (2); Strozzi, Tazio (2); Curtaz, Michèle (3); Vagliasindi, Marco (3); Bertolo, Davide (4) 1: Geohazard Monitoring Group, CNR IRPI, Italy; 2: GAMMA Remote Sensing, Switzerland; 3: Fondazione Montagna sicura - Montagne sûre, Italy; 4: Struttura Attività Geologiche Regione Autonoma Valle d'Aosta, Italy

44 Alpine Permafrost Deformation Monitoring through X- and C-Band SAR Multi-temporal Interferometry
Callegari, Mattia (1,2); Notarnicola, Claudia (2); Riccardi, Paolo (3); Seppi, Roberto (1); Zucca, Francesco (1) 1: University of Pavia; 2: EURAC; 3: Sarmap S.A.

45 Analysis of Agricultural Scenes based on SAR Interferometry
Nico, Giovanni (1); Pellegrinelli, Alberto (2); Giretti, Daniela (3); Soccodato, Filippo Maria (4); Di Pasquale, Andrea (5); Catalao, Joao (6) 1: Consiglio Nazionale delle Ricerche, Italy; 2: Università della Basilicata, Scuola di Ingegneria, Italy; 3: Università di Ferrara, Dipartimento di Ingegneria, Italy; 4: IAT Ingegneria per l'Ambiente e il Territorio srl, Italy; 5: DIAN srl, Italy; 6: Universidade de Lisboa, IDL, Portugal

46 Processing Optical and SAR data for burned forests mapping: An integrated framework
Stroppiana, Daniela (1); Azar, Ramin (1,3); Calò, Fabiana (1); Pepe, Antonio (1); Imperatore, Pasquale (1); Boschetti, Mirco (1); Silva, João M. N. (2); Brivio, Pietro A. (1); Lanari, Riccardo (1) 1: IREA-CNR, Italy; 2: University of Lisbon, School of Agriculture, Forest Research Centre, Tapada da Ajuda, 1349-017 Lisboa, Portugal; 3: Politecnico di Milano, Dipartment of Civil and Environment Engineering (DICA) , Piazza L. da Vinci, 32, Milano, Italy

47 Advanced interferometric applications and SAR data calibration over Thessaloniki (Greece) in preparation for Sentinel-1 SAR interferometry
Costantini, Fabiano (1); Mouratidis, Antonios (2) 1: Tor Vergata University, Italy; 2: Aristotle Univeristy of Thessaloniki, Greece

48 Efficient Strategy Selection of Permanent and Distributed Scatterers In Non-urban Areas
FEKIR, Mohamed (1); HOCINE, Faiza (2); HADDOUD, Afifa (3); BELHADJ-AISSA, Aichouche (4) 1: USTHB (university of sciences and technology , Algiers, Algeria; 2: USTHB (university of sciences and technology , Algiers, Algeria; 3: USTHB (university of sciences and technology , Algiers, Algeria; 4: USTHB (university of sciences and technology , Algiers, Algeria

49 Improved Small-baseline Subset Analysis of High Resolution SAR Images for Linear Infrastructure Deformation Mapping
Shi, Xuguo (1); Liao, Mingsheng (1,2); Zhang, Lu (1,2); Yang, Mengshi (1); Balz, Timo (1,2) 1: Wuhan University, China, People's Republic of; 2: Collaborative Innovation Center for Geospatial Technology, China, People's Republic of

50 Long Metal Cable Scattering in High Resolution SAR Images
Li, Tao (1,2); wang, Mingzhou (1); Xu, Kan (1); Li, Sha (1); Hou, Ailing (1); Wu, Wenhao (1); Liu, Yan (3); Li, Zhenhong (2) 1: GNSS Research Centre, Wuhan university, China; 2: COMET, School of Civil Engineering and Geoscience, Newcastle University, UK; 3: High Voltage Department, China Electric Power Research Institute, China

51 A New Change Detection Technique applied to COSMO-SkyMed Stripmap Himage data
Losurdo, Angela (1); Marzo, Cosimo (2); Guariglia, Annibale (1) 1: Geocart S.p.A., Italy; 2: Agenzia Spaziale Italiana, Italy

52 Mapping Changes and Damages in Areas of Conflict: from Archive C-band SAR Data to New HR X-band Imagery, towards the Sentinels
Tapete, Deodato (1,2) 1: Department of Geography, Durham University, Durham, United Kingdom; 2: Institute of Hazard, Risk and

Resilience (IHRR), Durham University, Durham, United Kingdom

53 Corner reflectors as the tie between InSAR and GNSS measurements: Case study of resource extraction in Australia
Garthwaite, Matthew C.; Lawrie, Sarah; Dawson, John H.; Thankappan, Medhavy Geoscience Australia, GPO Box 378, Canberra, ACT 2601 Australia

54 ANALYSIS OF THE THERMAL DILATION COMPONENT OF PSI OBSERVATIONS
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55 Urban Areas Extraction from Multitemporal SAR RGB Images Using Interferometric Coherence and Textural Information
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56 Using Advanced DInSAR techniques to identify potential geodetic precursors of building collapse following seismic swarms - L'Aquila.
Morigi, Massimo (1); Giuliani, Giampaolo (2); Avanzi, Giovanni (3); Di Francesco, Romolo (4) 1: University Tor Vergata Rome, Italy; 2: Permanent Foundation Giuliani; 3: Paneidos S.r.l.; 4: MySpaceWork S.n.c.

57 Small scale ground deformations observed in the western rift of Corinth by exploiting multitemporal interferometry and GPS measurements
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58 The Mw 5.9 February 2014 Cephalonia Earthquake (Greece): 3D Deformation Field and Source Modeling from Multiple SAR Techniques
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59 Fault slip pattern of the 2014 earthquake sequence in Ilam province, southwest Iran: Implications for seismogenic characteristics of the Zagros mountain fold-thrust belt
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60 Using integer least squares estimator to connect isolated InSAR fringes in earthquake slip inversion
Wang, Chisheng Shenzhen University, China, People's Republic of

61 Measuring and Modelling the Earthquake Deformation Cycle at Continental Dip-slip Faults: Postseismic Deformation
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62 The Vertical Coseismic Deformation Field of the Wenchuan Earthquake Based on the Combination of GPS and InSAR
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63 Coseismic and Postseismic Deformation of the 2008 Dachaidan Mw 6.3 Earthquake from InSAR Observations
Liu, Yang; Xu, Caijun; Wen, Yangmao School of Geodesy and Geomatics, Wuhan University, China

64 InSAR Interseismic Velocity Along the Red River Fault in Yunnan, China
Zhang, Jingfa; Li, Yongsheng; Tian, Yunfeng Institute of Crustal Dynamics, China Earthquake Administration, China, People's Republic of

65 Large-scale Interseismic Deformation along the Western Segment of the Altyn Tagh Fault Revealed by Wide-Swath InSAR Observations in the Northern Tibetan Plateau
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66 A brief overview of current efforts to investigate the active front of the Pamir, Central Asia, using GPS and InSAR
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67 Mapping fault creep and transient motion in central and southern California using satellite InSAR, UAVSAR and GPS
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68 Modelling Fault Slip Distribution using Geodesy and Seismology
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69 Earthquake cycle deformation at the Ballenas Transform, Gulf of California, Mexico, from InSAR and GPS measurements
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70 InSAR evidences of surface rupture following a moderate Mw5.0 shallow earthquake in the Ecuadorian Andes
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71 The 20 years history of ground deformation in the Kyoto basin and the Osaka plain
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72 Complete and Consistent Coverage of Taiwan Island by InSAR
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73 Resolving 3D ground movements induced by subsurface fluid variations with D-InSAR LOS measurement
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74 Monitoring of land deformation due to oil production by InSAR time series analysis
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75 Detecting surface deformation due to shale gas hydraulic fracturing by InSAR, corner reflectors and geodetic observations
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76 Geological mapping of fractures and lineaments using image processing of Synthetic Aperture Radar (SAR) (Case study: Kalate Naderi
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77 Multi-temporal SAR backscattering analysis for intertidal morphodynamics
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78 A comparison between coherence levels of ERS, ASAR, PalSAR and Sentinel-1 data in the Danube Delta
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79 Multitemporal SAR Interferometry in the Messolonghi-Etoliko Natura 2000 Overlapping Deltas Area
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80 Evaluation of Space-based Wetland InSAR Observations over the Cienaga Grande de Satnta Marta (CGSM), Colombia
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81 InSAR Monitoring of Tide Propagation through Coastal Wetlands
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82 A surprising application of InSAR: geodetic issues underpinning sea level science
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83 Estimate Algorithm of Interferometric SAR Baseline
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2 Post-earthquake Slope Stability Assessment in Mountains Area of Sichuan Region by Multitemporal SAR Interferometry
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3 Application of Differential Inteferometry for Analysis of Ground Movements in Albania
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4 Terrestrial SAR Interferometry Monitoring For The Emergencies Management: A Case Study In Northern Italy
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5 Multi-temporal InSAR Analysis of Wenjiagou Landslide Using Distributed Scatterers
Wang, Chao (1); Zhang, zhengjia (1,2); zhang, hong (1); tang, yixian (1) 1: Institute of remote sensing and digital earth, CAS, China, People's Republic of; 2: University of Chinese Academy of Sciences, China, People's Republic of

6 Application of Persistent Scatterer Interferometry (PSI) technique for deformation monitoring of large-scale landslides in mountainous areas of Western China
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7 Monitoring slow-moving landslides over Zhouqu, China with advanced InSAR time series technique
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8 Integrating InSAR, ALS and D-GNSS to monitor mass-movement on the Jurassic Coast
Ford, Andy Bournemouth University, United Kingdom

9 RADARSAT-2 and TerraSAR-X InSAR Monitoring of a Coastal Landslide Along Railway Corridor
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10 Evaluation of landslide hazard in the coastal zones of water reservoirs with SAR interferometry and field observations: a multi-frequency synergy approach
Perski, Zbigniew (1); Liu, Guang (2); Marinkovic, Petar (3); Wojciechowski, Tomasz (1); Fan, Jinghui (4); Wójcik, Antoni (1) 1: Polish Geological Institute - National Research Institute, Poland; 2: Center for Earth Observation and Digital Earth, Chinese Academy of Sciences, China; 3: PPO.Labs, The Netherlands; 4: China Aero Geophysical Survey and Remote Sensing Center for Land and Resources, China

11 Multi-temporal Monitoring of Slow-moving Landslides in South Pindus Mountain Range, Greece
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12 Landslides modelling and monitoring by exploiting satellite SAR acquisitions, optical imagery and in-situ measurements in Greece. Preliminary results *Elias, Panagiotis (1); Sykioti, Olga (1); Spyros, Neokosmidis (1); Demetrius, Paronis (1); Katerina, Kavoura (2); Nikolaos, Sabatakakis (2); Konstantinos, Chousianitis (1); George, Drakatos (1); Vassilis, Anastasopoulos (2); Briole, Pierre (3) 1: National Observatory of Athens, Greece; 2: University of Patras, Greece; 3: Ecole Normale Supérieure, Paris, France*

13 On the Potential of Satellite InSAR for Landslide Time of Failure Prediction

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14 Exploitation of Multi-Temporal SAR Interferometry for systems devoted to Environmental Monitoring and Risk Management
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15 Ground-based and Satellite Interferometric Observations of a Fast Moving Rock Glacier Complex (Ádjet mountain, North Norway)
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16 Terrestrial Radar Interferometry for the Measurement of Active Rockglaciers over Distances of Several Kilometer
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17 Monitoring of a Landslide Induced by New Highway Construction
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18 Using SAR Interferograms and Coherence Images for Object-Based Delineation of Unstable Slopes
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19 Monitoring of landslide activity in Slovakia territory using multi-temporal InSAR techniques
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20 ESA G-POD service: new potential for the analysis and interpretation of surface deformation in mountain regions by exploiting the Parallel-SBAS technique
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21 Inferring landslide pixels from radar images by applying GIS-based multi-criteria filtering analysis
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22 Monitoring of Landslide Activity in the Big Sochi Region (the Great Caucasus) using L, C, and X – band SAR Data
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23 Investigating the Potential of Very High Resolution TerraSAR-X and High Resolution Sentinel-1A Data for Landslide Movement Monitoring
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24 Mapping flooded areas and terrain displacements in the ravine La Cantuta (Lima, Peru) by means of Cosmo-Sky-Med interferometric data
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28 Monitoring the Construction of M-30 Tunnels under Madrid City (Spain)
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29 Ground Displacement Trends in an Urban Environment Using Multi-Temporal InSAR Analysis and two Decades of Multi-Sensor Satellite-Based SAR Imagery
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30 Urban Infrastructure Monitoring with a Spatially Adaptive Multi-looking InSAR Technique
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31 Extracting 3D city subsidence in Shanghai, China with multi-platform SAR images
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32 Monitoring of ground displacements in Metropolitan Taipei Basin by using high resolution X-band SAR interferometry
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33 Deformation Studies in Warsaw Using Persistent Scatterer Interferometry
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34 Cartography of the Belgian monuments at risk via PSI analysis of the ground movements, the GEPATAR project.
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35 Monitoring Structure and Regional-level Displacements for Lisbon Using Multi-temporal InSAR Techniques
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36 Surface Deformation Monitoring of Berlin by Satellite based Radar Data
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37 Monitoring ground deformation using Persistent Scatters Interferometry (PSI) and Small Baselines (SBAS) techniques: The case study of Valencia, Rome and South Sardinia
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38 Land Deformation Mapping of Mumbai City using PSInSAR Technique
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39 Turning the Spotlight on Oslo: Ultra-high resolution TerraSAR-X Staring SpotLight interferometry for urban subsidence characterization
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40 Land Subsidence in Beijing revealed with multi-wavelength InSAR Time Series and GPS observations
Chen, Mi (1,2); Li, Zhenhong (2); Li, Tao (3,2); Hu, Leyin (4,2); Gong, Huili (1); Li, Xiaojuan (1) 1: College of Resources Environment and Tourism, Capital Normal University, Beijing 100048, China; 2: COMET, School of Civil Engineering and Geosciences, Newcastle University, Newcastle upon Tyne NE1 7RU, UK; 3: GNSS Research Center, Wuhan University, Wuhan 430079, China; 4: Earthquake

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41 Interferometric determination of subsidences in Prague city
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42 Small-Magnitude Vertical Land Movement in the Perth Basin, Australia, from a Two-Year TerraSAR-X Time-Series
Filmer, Mick (1); Schenk, Andreas (2); Westerhaus, Malte (2); Featherstone, Will (1) 1: Western Australian Centre for Geodesy & The Institute for Geoscience Research, Curtin University of Technology, Australia; 2: Geodetic Institute, Karlsruhe Institute of Technology, Germany

43 TerraSAR-X Staring Spotlight Monitoring of a Highway Bridge in the Czech republic
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44 Combined Use of L-band, C-band, and X-band SAR Images for Monitoring the Dynamic Process of an Artificial Island-the Hong Kong International Airport
Ma, Peifeng (1); Lin, Hui (1); Lan, Hengxing (2); Chen, Jie (1) 1: The Chinese University of Hong Kong, Hong Kong S.A.R. (China); 2: State Key Laboratory of Resources and Environmental Information System (LREIS), Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences

45 Seawall Stability Monitoring with TerraSAR-X Interferometry in eastern China
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46 Stability Analysis of Masjed-Soleyman Earth-fill Dam Using High-Resolution Satellite Radar Images
Emadali, Lotfollah (1); Motagh, Mahdi (2) 1: Tehran university, Iran, Islamic Republic of; 2: GFZ German Research Center for Geosciences, Department of Geodesy and Remote Sensing, Potsdam, Germany

47 Time Series SAR Interferometry for the Detection of Surface Deformation in Mornos Dam (Central Greece) for the period 2003-2010.
Neokosmidis, Spiros (1); Elias, Panagiotis (2); Parcharidis, Isaak (1) 1: Harokopio University of Athens, Greece; 2: National Observatory of Athens,Greece

48 Differential InSAR - based Detection of Terrain Deformations, Movements and Subsidence for the Determination of Hazardous Active Seismic Areas along the Coastal Zones of the Caspian Sea
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50 InSAR Evaluation of Ground Heave and Subsidence near an Underground Gas Storage Facility
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51 Land Subsidence Detection in Agricultural Areas of Konya Closed Basin by PS-InSAR and GNSS Observations
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52 The Analysis of Vertical Displacements on Post-mining Areas with a Complicated Tectonic Structure using DInSAR and PSInSAR Methods
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53 Exploiting Sentinel-1A InSAR to Monitor Land Motion in Non-urban Areas: Proof-of-concept via Intermittent SBAS (ISBAS) Analysis of C-band Archives for the South Wales Coalfield, UK
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54 Deformation Mapping for Coal Mining Using Time-series InSAR Combining Persistent Scatterers and Distributed Scatterers in Huainan City, China
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61 11-year Subsidence and Associated Effects Evaluation over Northern ZMVM by means of Advanced Radar Interferometry
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62 Multi-Sensor Geophysical Investigations of Land Subsidence In Fars Province of South Iran
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63 Ground Deformation Signals of Thessaly Plain (Greece) from SAR Interferometry
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64 Geo-hazard Monitoring in Northern Greece Using InSAR techniques: the case Study of Thessaloniki
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65 Analysis of the deformation pattern along the subduction zone of Crete, Greece, using multi-temporal ERS and Envisat data
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67 Monitoring the effects of peatland restoration and peat subsidence in Indonesia using InSAR time series
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68 Subsidence before the 2010 Xynthia storm. The case of La Faute s/ mer, France
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69 InSAR measurements and elastic modeling for sinkhole prediction along the Dead Sea, Israel
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71 Multi-Image InSAR Time Series Analysis for Planning Future Seismic Acquisitions
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72 Monitoring uplift in the area of Lesina Marina (Southern Italy) through PSInSAR: interpreting 20 years of data
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73 Mechanical modeling of surface salt in Kuqa fold-thrust belt, northwestern China
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74 Insight into activity of Anguru salt diapir (Southeast of Zagros, Iran) by InSAR time series analysis
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75 DInSAR analysis reveals bulging of Azerbaijan mud volcano edifices before an eruption
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76 Global patterns of volcano deformation from satellite observations
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78 Interface for the joint inversion of sources geometries, locations and stress changes
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81 InSAR Observations of Dike Propagation and Dike-Fault Interaction at Harrat Lunayyir, Saudi Arabia
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83 Framework of research in the Kivu rift Basin context (Central Africa – Great Lakes Region)
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87 Modelling of ground deformation at Mt Etna observed with the MSBAS InSAR during 2009-2013
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88 The wet refractivity tomography for improving the DInSAR deformation measurements on mount Etna
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92 Combination of TerraSAR-X SpotLight imagery and high-resolution Terrestrial Laser Scanner (TLS) data at Láscar Volcano, Chile
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Salzer, Jacqueline; Nikkhoo, Mehdi; Walter, Thomas R. GFZ German Research Centre for Geosciences, Potsdam, Germany

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95 InSAR Mapping of displacements and lava flows related to recent eruptions (2010-2014) at Piton de la Fournaise
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