

Programme

Day 1, Monday 28 November 2005

Official ESA Welcome	Stephen Briggs
Workshop Objectives and Organization	Y.-L. Desnos
Opening Session: Presentations by ESA [Seed Questions]	Chair: Y.-L. Desnos/M. Engdahl
ERS and Envisat missions status	Wolfgang Lengert (ERS Mission Manager)
ERS and Envisat missions: data and services	Henri Laur (Envisat Mission Manager)
ERS SAR - ENVISAT ASAR: Performance, Processing, Products for Interferometry	Betlem Rosich Tell (ESA)
INSAR services for GMES : utilisation of ERS and ENVISAT for pan-European subsidence monitoring	Philippe Bally (ESA)
Thematic Mapping and DEMs [Seed Questions]	Chair: J. Hoffmann/F.M. Seifert, sec. T. Pearson
Analysis of InSAR phase coherence and correlation of image intensity in urban environment: effects of baseline and urban texture	Nazzareno Pierdicca (Univ. La Sapienza of Rome)
Damage Mapping Using Interferometric Coherence	Jörn Hoffmann (German Aerospace Center)
ERS-ENVISAT Cross-interferometry for Coastal DEM Construction	Sang-Hoon Hong (Yonsei University)
Urban DEM	Daniele Perissin (Politecnico di Milano)
On the generation of a forest biomass map for Northeast China: SAR interferometric processing and development of classification algorithm	Maurizio Santoro (Friedrich-Schiller University)
Discussion: Thematic Mapping and DEMs	
Methodology: General [Seed Questions]	Chair: R. Bamler/C. Prati sec. B. Rosich Tell

APS Estimation and Modeling for Radar Interferometry	R. F. Hanssen (Delft University of Technology)
Methods for Atmospheric Correction in INSAR Data	Franz Meyer (German Aerospace Center (DLR))
InSAR water vapour correction models: GPS, MODIS, MERIS and InSAR integration	Zhenhong Li (COMET, University College London)
Statistical analysis of atmospheric components in ERS SAR data	Alessandro Ferretti (Tele-Rilevamento Europa)
Methodology: General [Seed Questions]	Chair: R. Bamler/C. Prati sec. B. Rosich Tell
Multibaseline SAR interferometry	Andrea Monti Guarnieri (Politecnico di Milano)
Improved resolution image focusing by multi-pass ENVISAT ASAR data	Gilda Schirinzi (Universita' di Cassino)
ScanSAR InSAR Processing of ASAR Wide Swath SLC (WSS) Products	David Small (University of Zurich)
Multidimensional imaging with ERS data	Gianfranco Fornaro (Consiglio Nazionale delle Ricerche)

Day 2, Tuesday 29 November 2005

Methodology: General [Seed Questions]	Chair: R. Hanssen/A. Monti Guarnieri sec. F. Ranera
Evaluating interferometric baseline performances in a SAR formation flight by using relative GRACE GPS navigation solutions	Andreas Kohlhase (DLR)
Scan Patter Synchronization in ENVISAT Wide Swath Mode	Ciro Cafforio (Politecnico di Bari)
The Potential of Broadband L-Band SAR Systems for Small Scale Ionospheric TEC Mapping	Franz Meyer (German Aerospace Center (DLR))
Multibaseline interferometry for natural scatterer characterisation	Francesco De Zan (Politecnico Milano)
Discussion: Methodology General	
Methodology: Longterm DInSAR [Seed Questions]	Chair: J. Mallorqui/R. Lanari, sec. M. Engdahl
Wetland InSAR: Observations and Implications	Shimon Wdowinski (University of Miami)
Advanced Dinsar Based on Coherent Pixels: Development and Results Using CPT Technique	Jesús Domínguez (Indra Espacio)
Performance Analysis of the SBAS Algorithm for Surface Deformation Retrieval	Riccardo Lanari (IREA - CNR)
Thirty years of land subsidence studies in Las Vegas, Nevada, USA: From leveling to cross-examination of ERS and Envisat data with PSInSAR	John W Bell (University of Nevada)
Terrain motion [Seed Questions]	Chair: A. Arnaud/J. Mallorqui, sec. T. Pearson
InSAR measurements of uplift rates of Mount Sedom salt diapir, Dead Sea Rift, with implications to salt-rock properties and emplacement mechanism	Gidon Baer (Geological Survey of Israel)
Result evaluation of Coherent Target Model Product with long-term InSAR data set in Shanghai	Mingsheng Liao (Wuhan University)
Land subsidence mapping and monitoring through PSInSAR: examples from the Arno river basin (Italy)	Paolo Farina (University of Firenze)
Derivation of surface subsidence information in Bangkok (Thailand) by PS analysis of a limited number of interferograms	Jirathana Worawattanamateekul (RS-Tech Co., Ltd.) presented by Jorn Hoffmann (DLR)

On the use of point target characteristics in the estimation of low subsidence rates due to gas extraction in Groningen, the Netherlands.	Gini Ketelaar (Delft University of Technology)
Ground motion measurement in the lake Mead area (Nevada, USA), by temporal analysis of multiple interferograms.	Olivier Cavalié (ENS)
Ground deformation in Thessaly, central Greece, between 1992 and 2000 by means of ERS multi-temporal InSAR	Cristiano Tolomei (INGV)
Discussion: Terrain Motion	
Session 11: Poster session, Part I	
Optimal Baseline Design and Error Compensation for Bistatic Spaceborne InSAR	Wenqin Wang (Institute of Electronics)
Avalanche and Snowfall Monitoring with a Ground-based Synthetic Aperture Radar	Alberto Martinez-Vazquez (DG-JRC)
Advanced differential interferometric SAR:	Paz Fernandez (University of Granada)
The Dynamics of Mining Subsidence in Knurów Area in Poland Derived from SAR Interferometry and Topographic Data	Tomasz Wojciechowski (Faculty of Earth Sciences, University of Silesia)
Surface Effects of the 2004 Indonesian Earthquake and Tsunami from SAR data	Christian Bignami (Univ. La Sapienza of Rome)
Error Analysis of Velocity Estimation via Bistatic Along Track InSAR	Wenqin Wang (Institute of Electronics, Chinese Academy of Scien)
Slope Motion Monitoring by ERS and ASAR Interferometry at Natural Surfaces and Artificial Reflectors	Thomas Nagler (ENVEO IT)
Investigation of Zagros Thrust-fold-belt deformation using SAR interferometry	Faramarz Nilforoushan (Uppsala University)
Long Term Monitoring of Unstable Slopes by a Ground Based Synthetic Aperture Radar: a Case Study in Italy	Linhsia Noferini (University of Florence)
Accuracy Validation of Digital Elevation Model Extracted from SIR-C/X Polarimetric Interferometric SAR Data	Erxue Chen (Chinese Academy of Forestry)
Tidal Flexure at the Grounding Line of the Rutford Ice Stream Shown by ERS Interferometry	Helena Sykes (University of Wales Swansea)
Reducing the DEM Error Effect in Differential Interferometry	Andrew Sowter (University of Nottingham)
A DEM-Free Approach to Persistent Point Scatterer Interferometry	Mark Warren (University of Nottingham)
Implication of Secondary Geodynamic Phenomena on Co-seismic Interferometric Coherence	Issaak Parcharidis (Harokopio University of Athens)

The November 22, 1995, Mw = 7.2 Gulf of Elat (Aqaba) earthquake cycle revisited	Gidon Baer (Geological Survey of Israel)
Measurement of a Small-scale Subsidence in a Reclaimed Land using RADARSAT-1 SAR	Chang-Wook Lee (Yonsei University)
Results of landslide detection based on SAR Interferometry processing	Bjoern Riedel (TU Braunschweig)
Relationship between piezometric level and ground deformations measured by means of DInSAR in the Vega Media of the Segura River (Spain)	Roberto Tomás (Universidad de Alicante)
Atmospheric Effects on 35-Day Repeat Cycle ERS Interferograms of London	Jon Leighton (University of Nottingham)
Detection of subsidences and landslides in the North-Bohemian coal basin by the InSAR method	Ivana Capkova (Faculty of Civil Engineering, Czech Tech. Univ.)
Application of SAR interferometry for studies of Caspian coast covers	Alexander Zakharov (IRE RAS)
Monitoring of gas pipelines state in Western Siberia using spaceborne SAR interferometry	Alexander Zakharov (IRE RAS)
Space-Adaptive coherence estimation	Andrea Monti Guarnieri (Politecnico di Milano)
Temporal Variability of Ice Flow on Hofsjökull, Iceland, observed by ERS SAR Interferometry	Florian Mueller (University of Innsbruck)
Kinematics, asperities and seismic potential of the Hayward fault, California from ERS and RADARSAT PS-InSAR	Gareth Funning (University of California)
Enhanced quick and dirty estimate for SAR coherence	Andrea Monti Guarnieri (Politecnico di Milano)
Coherence-based Methodology for Interferometric Dem Integration	Pablo Euillades (Instituto CEDIAC - Universidad Nacional de Cuyo)
Designing and Testing a Network of Omnidirectional Permanent Scatterers	Chuck Wicks (USGS)
Antarctic SAR and INSAR calibration experiment during the International Polar Year	Benoit Legresy (CNRS/Legos)
Application of ASAR-ENVISAT Data for Monitoring Andean Volcanic Activity : Results from Lastarria-Azufre Volcanic Complex (Chile-Argentina)	Jean-Luc Froger (IRD LMV UR163 / UMR6524)
The Preliminary Result on Persistent Scatterers and Corner Reflectors Differential Interferometry in Three Gorges Area	Qiming Zeng (Peking University)
Urban Change Detection Using Coherence and Intensity Characteristics of Multi-temporal ERS-1/2 Imagery	Mingsheng Liao (Wuhan University)
Land subsidence monitoring in the Lucca plain (central Italy) with ERS and Envisat	Leonardo Disperati (Università di Siena - Centro di GeoTecnologie)

The Performance of ERS-1/2 Tandem SAR Coherence Image to Estimate Forest Volume Density in the Northeast of China	Yong Pang (Chinese Academy of Forestry)
Utilizing the CR-network in Iceland for an automated interferometric processing chain - Test case with ERS-Tandem data	Karlheinz Gutjahr (Joanneum Research)
Deformation fields of city with SAR interferometry (DINSAR and PSI): key examples from buttes Bergeyre and Chaumont area in Paris city (France)	Benoît Deffontaines (Université de Marne-la-Vallée)
Blind and surface faulting during large and moderate earthquakes deduced from InSAR in Algeria and Morocco: Insights for the active deformation along the plate boundary in North Africa	Samir Belabbes (IPG Strasbourg, UMR7516) presented by Mustapha Meghraoui (IPG Strasbourg)
Combining Radar, Optical and GPS data for Vrancea seismic area analysis	Maria Zoran (National Institute of Optoelectronics)
Dynamics of Mt. Etna before, during and after the 2001 eruption, inferred from GPS and DInSAR data.	Giuseppe Puglisi (Ist. Naz. Geofisica e Vulcanologia)
Application of the Coherent Pixels Technique (CPT) to large datasets of ERS and ENVISAT SAR images for deformation time series retrieval	Jordi J. Mallorqui (Universitat Politècnica de Catalunya (UPC))
Coherence and PS-based Advanced DInSAR analysis tools	Erlinda Biescas (Institute of Geomatics)
Investigations of Nyamuragira and Nyiragongo volcanoes (Democratic Republic of the Congo) using InSAR	Sarah Colclough (Cambridge University)
A generic differential interferometric SAR processing system, with applications to land subsidence and snow-water equivalent retrieval	Yngvar Larsen (Norut IT)
Contribution of SAR Interferometry (from ERS1/2) in the Study of the Eolian Transport Processes: Cases of Niger, Mauritania and Morocco	Catherine Bodart (University of Liège)
A comparison of SBAS and PS ERS InSAR for subsidence monitoring in Oslo, Norway	Tom Rune Lauknes (Norut IT)
Conventional space-borne InSAR for landslide investigations: examples from the northern Apennines (Italy)	Paolo Farina (University of Firenze)
Orbital single-pass interferometry for vessel detection and classification	Jordi J. Mallorqui (Universitat Politècnica de Catalunya (UPC))
Determination of glacier velocities on King George Island (Antarctic Peninsula) by DIFSAR	Albert Moll (Center of Remote Sensing of Land Surfaces)

Subsidence through space and time in the lake Mead area : Insights from cross-platform ERS/Envisat interferometry.	Marie-Pierre Doin (Ecole Normale Supérieure)
Permanent scatterers and seismic motion estimation in the Gargano Peninsula	Silvia Scirpoli (Politecnico)
First steps towards single-pass interferometry based on a bistatic fixed receiver SAR system	Jordi J. Mallorqui (Universitat Politècnica de Catalunya (UPC))
Variation in aseismic slip along the creeping section of the San Andreas fault from space-based geodetic data	Frederique Rolandone (Université Pierre et Marie Curie)
Improved understanding of ground surface deformation caused by underground mining activities using levelling and PSInSAR data	Ilona Kemeling (University of Durham)
Spatio-temporal phase unwrapping using integer least-squares	Freek van Leijen (Delft University of Technology)
The interpretation of Bam fault kinematics using Envisat SAR interferometric data	Zbigniew Perski (Delft University of Technology)
Preliminary Results of Differential Interferometry in West-central Argentina	Pablo Euillades (Instituto CEDIAC)
Interferometric Coherence analysis of wetlands: The Everglades (south Florida) as a case study	Sang-Wan Kim (University of Miami) presented by Shimon Wdowinski (University of Miami)
Measuring the surface deformation caused by landslide in Wanzhou by InSAR technique	Jingfa Zhang (Institute of Crustal Dynamics, CEA)
Key Steps in InSAR Process to Measure Surface Deformation in Cangzhou	Lixia Gong (Institute of Crustal Dynamics, CEA)
Tainan Neotectonics from Persistent Scatterer Interferometry (sw Taiwan)	Jyr-Ching Hu (National Taiwan University)
PSIC4: the IREA contribution based on the exploitation of the SBAS approach	Eugenio Sansosti (IREA-CNR)
Subsidence revealed by PSInSAR technique in the Ottignies-Wavre area (Belgium) related to water pumping in urban area	Xavier Devleeschouwer (Royal Belgian Institute of Natural Sciences)
Phase unwrapping using Brunch-cut and Markovian Model	Mounira Ouarzeddine (USTHB)
Interferometric study of landslides in urban Volga banks	Ludmila Zakharova (IRE RAS)
An University Educational Experience by means of ESA Software and Data	Maurizio Migliaccio (Università degli Studi di Napoli "Parthenope")
Using DInSAR to Monitor Subsidence Caused by Underground Mining Utilising Block-Caving Method.	Andrew Jarosz (Curtin University of Technology)

Application of PSI technique to landslide investigations in the Caramanico area (Italy): lessons learnt	Janusz Wasowski (CNR-IRPI, Bari)
A Data Fusion Technique for Mosaicking of Different Sources Digital Elevation Models	Mario Costantini (Telespazio S.p.A.)
The SAMAAV project: Study and Monitoring of Active African Volcanoes using ERS and ENVISAT data	F. Kervyn (Royal Museum for Central Africa)
INSAR based services to Industry: customer feedback	Stephen Coulson (ESA)
Radar interferometric monitoring of ground subsidence due to underground coal mining near Gardanne, France	R. F. Hanssen (Delft University of Technology)
DLR's results of the PSIC4 study	Nico Adam (DLR)
Interferometric Point Target Analysis over the PSIC4 test site	Tazio Strozzi (Gamma Remote Sensing AG)
The applicability and limitations of displacement model PSI methods	Geraint Cooksley (Altamira Information)
Monitoring long-term ground movements and Deep Seated Gravitational Slope Deformations by InSAR time series: cases studies in Italy	Salvatore Stramondo (Istituto Nazionale di Geofisica e Vulcanologia)
SARscape WideSwath Interferometry	Davide D'Aria (ARESYS s.r.l.)
ASAR Background regional mission analysis	Jorge Del Rio Vera (ESA)

Day 3, Wednesday 30 November 2005

Methodology and techniques: Advances in PSI (Persistent Scatterer Interferometry) [Seed Questions]	Chair: F. Rocca/R. Bamler, sec. M. Engdahl
The STUN algorithm for Persistent Scatterer Interferometry	Bert Kampes (DLR)
Advances in Analyzing InSAR Persistent Scatterers in Non-urban Environments	Andrew Hooper (Stanford University)
Coherent Scatterers in Urban Areas: Characterisation and Information Extraction	Rafael Zandona Schneider (DLR)
Spaceborne SAR anatomy of a city	Daniele Perissin (Politecnico di Milano)
ERS - ASAR Integration in the Interferometric Point Target Analysis	Urs Wegmuller (Gamma Remote Sensing AG)
PSInSAR validation by means of a blind experiment using dihedral reflectors	Fabrizio Novali (Tele-Rilevamento Europa - T.R.E. s.r.l.)
Parametric Estimation and Model Selection Based on Amplitude-Only Data in PS_Interferometry	Nico Adam (DLR)
Methodology and techniques: Advances in PSI (Persistent Scatterer Interferometry) [Seed Questions]	Chair: F. Rocca/R. Bamler sec. M. Engdahl
Dissemination of PS-InSAR results for improved interpretation and analysis	Swati Gehlot (Technical University Delft)
Coherent Target Monitoring at High Spatial Density: Examples of Validation Results	Marco van der Kooij (Vexcel Canada Inc.)
Recursive Persistent Scatterer Interferometry	Petar Marinkovic (Delft University of Technology)
A Joint Space-Time Approach to Persistent Scatterer Interferometry	Mario Costantini (Telespazio S.p.A.)
PSIC4 validation activities	Daniel Raucoules (BRGM)
Discussion: Advances in PSI	
Parallel session	
Volcanoes [Seed Questions]	Chair: G. Wadge/P. Lundgren sec. A. Zmuda
Two years of InSAR monitoring of volcanic activity at Piton de la Fournaise (Réunion Island) using ASAR-ENVISAT data	Pierre Tinarid (Laboratoire Magmas and Volcans)

Measuring contemporary deformation in the Taupo Volcanic Zone, New Zealand using SAR interferometry	Jessica Hole (ESSC, University of Reading)
Ground deformation monitoring at the Phlegrean Fields (Naples, Italy) from the exploitation of SAR data in the framework of CAT-1 and DUP activities	Sven Borgstrom (Istituto Nazionale di Geofisica e Vulcanologia)
InSAR measurements of volcanic deformation at Etna – forward modelling of atmospheric errors for interferogram correction	Rachel Holley (University of Reading)
The 2005 eruption of Fernandina volcano, Galapagos, seen by InSAR	Falk Amelung (University of Miami)
Imaging Volcanic Deformation Over Aleutian Islands	Zhong Lu (SAIC, USGS/EROS) presented by Paul Lundgren (JPL)
SAR interferometry applied to volcanoes in Italy and Kamchatka	Paul Lundgren (Jet Propulsion Laboratory)
Flank dynamic of Mt. Etna by combining ascending and descending Permanent Scatterer analysis and GPS data.	Giuseppe Puglisi (Ist. Naz. Geofisica e Vulcanologia)
Ice and Snow [Seed Questions]	Chair: D. Derauw/J. Mohr sec. M. Eskelinen
Controlled Interferometric Modelling of Glacier Changes in South Svalbard	Aleksey Sharov (Joanneum Research)
Application of SAR Interferometry to Himalayan Glaciers	Gopalan Venkataraman (Indian Institute of Technology)
A comparison of remotely sensed surface velocities with balance velocities on two Svalbard ice caps	Suzanne Bevan (University of Wales Swansea)
The effects of basal water beneath Vatnajökull, Iceland, observed by SAR interferometry	Eyjólfur Magnússon (University of Innsbruck)
Greenland ice velocities: Envisat vs Radarsat-1 background missions	Eric Rignot (Jet Propulsion Laboratory)
Monitoring Alaskan snow pack with InSAR	Richard Forster (University of Utah)
Discussion: Ice and Snow	
Session 11: Poster session, Part II	
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Day 4, Thursday 1 December 2005

Earthquakes and Tectonics [Seed Questions]	Chair: P. Lundgren/B. Parsons, sec. F. Sarti
Resolving Vertical Tectonics in the San Francisco Bay Area from Permanent Scatterer InSAR and GPS Analysis	Roland Bürgmann (University of California, Berkeley) presented by Gareth Funning (University of California)
Ground deformation in the two years since the 2003 Bam, Iran earthquake	Eric Fielding (Jet Propulsion Laboratory, Caltech)
Some InSAR data considerations when studying Earthquakes	Sigurjon Jonsson (ETH Zurich)
Fault Identification in Buried Strike-Slip Earthquakes using InSAR: The 1994 and 2004 Al Hoceima, Morocco Earthquakes.	Juliet Biggs (COMET)

Constraining a viscoelastic coupling model of the North Anatolian Fault (NAF) along the Ganos segment by Permanent Scatterers	Mahdi Motagh (GeoForschungsZentrum Potsdam (GFZ))
The 1994-2004 Al Hoceima (Morocco) Earthquake Sequence: Conjugate fault ruptures deduced from InSAR	Ahmet M. Akoglu (ITU) presented by Ziyadin Cakir (IPG Strasbourg)
Comparison of DINSAR techniques for measuring interseismic deformation across the North Anatolian Fault	Erwan Pathier (Oxford University)
Crustal deformation and fault slip during the seismic cycle in the North Chile subduction zone, from GPS and InSAR (ERS and ENVISAT) observations	Jean-Bernard de Chabaliere (Institut de Physique du Globe de Paris)
Joint inversion of InSAR and broadband teleseismic waveform data using ABIC: application to the 1997 Manyi, Tibet earthquake	Gareth Funning (University of California)
What are the slip rates of the major faults of Tibet?	Tim Wright (COMET, Department of Earth Sciences)
Present-day deformation rates along the northern edge of Tibet, using SAR interferometry	Cécile Lasserre (ENS)
Post-seismic mantle relaxation in the Central Nevada Seismic Belt detected by InSAR: Implication for Basin and Range dynamics	Noel Gourmelen (University of Miami - RSMAS)
To Measure the deformation field of several seismic faults in Western China and analyze the kinematics feature	Jingfa Zhang (Institute of Crustal Dynamics, CEA)
Research Within the WInSAR Consortium	Howard Zebker (Stanford University)
Landslides [Seed Questions]	Chair: H. Rott/U. Wegmuller, sec. F. Palazzo
Long term DInSAR analysis of a deep seated gravitative motion in the Alpine region of Val Di Susa, Italy	Simone Atzori (INGV)
SAR Interferometric Point Target Analysis of Slope Instabilities in the Community of Biasca, Switzerland	Tazio Strozzi (Gamma Remote Sensing)
On the application of PSI technique to landslide monitoring in the Daunia mountains, Italy	Fabio Bovenga (Dip. Interateneo di Fisica - Bari)
Landslide hazard mapping at a basin scale using remote-sensing data and artificial neural networks	Sandro Moretti (Università di Firenze)
Discussion: Landslides	

Day 5, Friday 2 December 2005

Address by ESA's Director of Earth Observation	Volker Liebig
Future missions [Seed Questions]	Chair: G. Levrini sec. F. Sarti
TanDEM-X: A Satellite Formation for High Resolution SAR Interferometry	Gerhard Krieger (DLR)
Interferometric capabilities of ALOS PALSAR and its utilization	Ryoichi Furuta (JAXA)
RADARSAT-2: Mission Overview and Applications	Bernhard Rabus (MDA)
SAR Interferometry Capabilities of Canada's planned SAR Satellite Constellation	Dirk Geudtner (Canadian Space Agency)
Mission and System Characteristics of the European Radar Observatory (Sentinel-1)	Evert Attema (ESA)
Summary session	
Session Summaries	
Recommendations by session	