Tuesday, November 25, 2008

Session 1: Mission Status
8.20 – 8.40 Welcome
8.40 – 9.00 Mission Status
  Stefan Buckreuss - German Aerospace Center (DLR)
9.00 – 9.20 Geometric Validation of TerraSAR-X High-Resolution Products
  Schubert, Adrian - Remote Sensing Laboratories (RSL)
9.20 – 9.40 GPS radio occultation with TerraSAR-X: Introduction, status and initial results
  Wickert, Jens - German Research Centre for Geosciences, GFZ

9.40 – 10.10 Coffee Break

Session 2: InSAR Applications
10.10 – 10.30 Monitoring Land Subsidence in the Venice Lagoon
  Strozeri, Tazio - Gamma Remote Sensing
10.30 – 10.50 CR-based TerraSAR-X interferometry for landslide monitoring
  Ye, Xia - GFZ Potsdam
10.50 – 11.10 InSAR Monitoring of Surface Deformation due to Tunneling
  Construction of main Drainage Pipes in the Emscher Region with TerraSAR-X data
  Knospe, Steffen - TU Clausthal
11.10 – 11.30 PSI analysis of TerraSAR, RADARSAT-1 and RADARSAT-2 strip map data
  Rabus, Bernhard - MDA

11.30 – 13.00 Lunch
Session 3: Land Cover Applications - 1
13.00 – 13.20 Assessment of the potential of TerraSAR-X with respect to 3D-mapping applications using radargrammetric and interferometric techniques
   Gutjahr, Karlheinz - Joanneum Research
   Dana, Iulia Florentina - Romanian Space Agency
13.40 – 14.00 Evaluation of TerraSAR-X observations for Wetland InSAR application
   Wdowinski, Shimon - University of Miami
14.00 – 14.20 Mapping urban area extents with TerraSAR-X single-polarization images
   Gamba, Paolo/Gianni Lisini - University of Pavia
14.20 – 14.40 Analyses of TerraSAR-X modes and polarizations for the classification and discrimination of different tropical rain forest types in Central Kalimantan (Indonesia)
   Heinzel, Vanessa - Remote Sensing Solutions GmbH

14.40 – 15.10 Coffee Break

Session 4: Land Cover Applications - 2
15.10 – 15.30 Use of TerraSAR-X data in forestry
   Martin, Klaus - SLU
15.30 – 15.50 Rice monitoring in the Spain by means of time series of TerraSAR-X dual-pol images
   Lopez-Sanchez, Juan M - University of Alicante
15.50 – 16.10 Simulating X-band interferometric heights and canopy penetration using airborne LIDAR
   Solberg, Svein - Norwegian forest and landscape institute
16.10 – 16.30 Determining forest area using TerraSAR-X data
   Breidenbach, Johannes - Forest Research Institute Baden-Württemberg
16.30 – 16.50 Potential of TerraSAR-X StripMap data in early and rapid agricultural crops mapping
   Mroz, Marek - University of Warmia and Mazury in Olsztyn

Session 5: Poster Session - German Space Operations Center (GSOC)
17.00 – 19.00 Posters and guided tour at GSOC
19.10 – 19.30 Transfer to Andechs
19.30 – 22.00 Joint Dinner at Andechs
22.00 – 22.20 Transfer to DLR
Wednesday, November 26, 2008

Session 1: Ocean Applications

8.20 – 8.40  Ocean current retrievals from complex TerraSAR-X images
Romeiser, Roland - University of Miami

8.40 – 9.00  Ship surveillance with TerraSAR-X ScanSAR
Gabban, Andrea - European Commission - Joint Research Centre (JRC)

9.00 – 9.20  High Resolution Ocean Winds Retrieved from TerraSAR-X
Horstmann, Jochen - NATO Undersea Research Center (NURC)

9.20 – 9.40  Sonar Measurements in Ship Wakes Synchronous with TerraSAR-X Overpasses
Soloviev, Alexander - Nova Southeastern University

9.40 – 10.10  Coffee Break

Session 2: Water and Coastal Applications

10.10 – 10.30  Investigation of intertidal zone using TerraSAR-X
Won, Joong-Sun - Yonsei University

10.30 – 10.50  Monitoring of Coastal Cultural Grounds Using TerraSAR-X and
Yang, Chan-Su - Korea Ocean Research & Development Institute

10.50 – 11.10  Bayesian Land and Sea Segmentation of SAR Images Using Graph Cuts
Ferreira, João - Instituto de Telecomunicações

11.10 – 11.30  Morphology of Internal Wave Signatures in TerraSAR-X images
Sequeira, Pedro - University of Lisbon

11.30 – 13.00  Lunch

Session 3: Polar Applications

13.00 – 13.20  Fracturing and break-up events of Wilkins Ice Shelf, Antarctica:
Humbert, Angelika - University of Münster

Nagler, Thomas - ENVEO

13.40 – 14.00  Improved sea ice monitoring for the Baltic Sea – Project overview and first results
Eriksson, Leif E. B. - Chalmers University of Technology

14.00 – 14.20  SAR imaging of melt-onset on sea ice: First Results from the MELTEX Campaign
Dierking, Wolfgang - Alfred Wegener Institute

14.20 – 14.50  Coffee Break
Session 4: SAR Methods

14.50 – 15.10 Interferometric Techniques for TerraSAR-X Data
Nies, Holger – Center for Sensorsystems, University of Siegen

15.10 – 15.30 A model for high resolution TerraSAR-X images of natural scenes
Riccio, Daniele – Università “Federico II” di Napoli

15.30 – 15.50 Singular point characterization and monitoring using advanced TerraSAR-X modes
Tison, Céline – CNES

15.50 – 16.10 Pansharpening with TerraSAR-X and optical data
Klonus, Sascha – Universität Osnabrück

16.10 – 16.30 Generic Object Categorisation in Polarimetric SAR-data by Inexact Subgraph Matching
Ronny Hänsch – Berlin Institute of Technology

16.30 – 16.45 Short Break

16.45 – 18.00 Tips & tricks for spectral, radiometric, and geometric interpretation of TerraSAR-X products
Fritz, Thomas – German Aerospace Center (DLR)

Tuesday, November 25, 2008

17.00 – 19.00 – Poster Session (GSOC)

1. High Resolution SAR Interferometric Techniques – Results from the Commissioning Phase and from Early Projects
Eineder, Michael – German Aerospace Center (DLR)

2. Validation of spectral and individual ocean Wave parameters at offshore platforms
Lehner, Susanne – German Aerospace Center (DLR)

3. Development and Validation of new X-band Algorithm to measure Wind Speed and Sea State from WaMoS II and TerraSAR-X Data Sets
Tränkmann, Ina – OceanWaveS GmbH

4. Fine features of ship wakes in the problem of ship detection
Lehner, Susanne – German Aerospace Center (DLR)

5. Monitoring of Shipping Lanes – the Panama Canal
Lehner, Susanne – German Aerospace Center (DLR)

6. Combined use of the SAR Doppler anomaly and normalized radar cross section to retrieve ocean surface winds
Mouche, Alexis – C.L.S.

Rosenthal, Wolfgang – GAUSS Bremen

8. Preliminary InSAR analysis of TerraSAR-X observations of Mt. Etna and Kilauea volcanoes
Lundgren, Paul – California Institute of Technology, Jet Propulsion Laboratory
9. Evaluation of TerraSAR-X DINSAR and IPTA for ground-motion monitoring
   Wegmüller, Urs – Gamma

10. RadarMon 2008: Subsidence monitoring over a collapsed mine in Berezniki, Russia
    Hebel, Hans-Peter – TU Clausthal

11. Classification of TerraSAR-X high resolution imagery in Assam, India, for water resources management
    Boehm, Bettina – Friedrich-Schiller-University of Jena

12. XMAS – Determination of the Mass Balance of Alpine Glaciers with TerraSAR-X data
    Hochschild, Volker – Universität Tuebingen

13. Simple image processing techniques for near-real time inundation monitoring using TerraSAR-X imagery
    Gebhardt, Steffen – German Aerospace Center (DLR)

14. Using TerraSAR-X data for improved urban flood model validation
    Mason, David – University of Reading

15. Synthetic aperture radar data segmentation based on histograms: TerraSAR-X vs. ALOS
    Dabboor, Mohammed – University of Calgary

16. Automated mapping of surface water and flood extent from TerraSAR-X
    Hahmann, Thomas – German Aerospace Center (DLR)

17. TerraSAR-X observations and acquisition planning for ice velocities in Antarctica, Patagonia and Island
    Floricioiu, Dana – German Aerospace Center (DLR)

18. TerraSAR-X morphological profiles for urban classification
    Chini, Marco – Istituto Nazionale di Geofisica e Vulcanologia

19. Assessment of canopy structure variables of agroforestry systems along a land use intensity gradient in Central Sulawesi, Indonesia
    Erasmi, Stefan – Georg-August-Universität Göttingen

20. Monitoring of crude oil spill off the west coast of Korean Peninsula using SAR images
    Kim, Duk-jin – Korea Aerospace Research Institute

21. Traffic Monitoring With TerraSAR-X
    Runge, Hartmut – German Aerospace Center (DLR)

22. TerraSAR-X for urban areas monitoring: novelties and promises of High Resolution
    Riccio, Daniele – Università Federico II di Napoli

23. Road network extraction in urban areas by means of feature-level fusion
    Gamba, Paolo – University of Pavia

24. A Synthetic Aperture Radar Simulator for Repeat Pass Interferometric Data
    Hsueh, Chang Chi – University of Toronto

25. FRA-SAR 2010 - An Experimental Analysis of High Resolution Synthetic Aperture Radar within the Framework of the FAO’s next Global Forest Resource Assessment for the Year 2010
    Knuth, Ralf – Friedrich-Schiller-University of Jena

26. Disaster Phenomena of Wenchuan Earthquake in TerraSAR-X Images
    Hong, ZHANG – Center for Earth Observation and Digital Earth

27. Agricultural Change Monitoring with Dual-Polarimetric Analysis
28. Glacier movement study in NW-Himalayan region using repeat pass high resolution TerraSAR-X data
   Dhar, Tishampati - University of Adelaide

29. Snow cover area monitoring using multi-temporal TerraSAR-X data
   Venkataraman, Gopalan - Indian Institute of Technology Bombay

30. Evaluation of TerraSAR-X for natural oil seep studies
   Thankappan, Medhavy - Geoscience Australia

31. Overview of Bistatic TerraSAR-X/F-SAR Spaceborne-Airborne Experiment
   Rodriguez-Cassola, Marc - German Aerospace Center (DLR)

32. Experimental Results for TerraSAR-X Single Channel Switched Aperture and
    Dual Receive Antenna Mode - Along-Track Interferometry –
    Gabele, Martina Karin - German Aerospace Center (DLR)

33. Knowledge based Image Information Mining (KIM) for TerraSAR-X data
    exploration: Development and validation of scenarios and applications of the KIM
    module of the TerraSAR-X Payload Ground Segment
    Datcu, Mihai - German Aerospace Center (DLR)

34. Modeling and parameter estimation of TSX images for scene classification and
    recognition
   Datcu, Mihai - German Aerospace Center (DLR)

35. Absolute Phase Estimation from TerraSAR-X Data using Wideband
    Interferometry
    Brcic, Ramon - German Aerospace Center (DLR)

36. Automatic Registration of TerraSAR-X Images with Other Compatible Sensors
    Suri, Sahil - German Aerospace Center (DLR)

37. Analysis of the first TSX images and future plans.
    Weydahl, Dan Johan - Norwegian Defence Research Establishment (FFI)

38. Forest Monitoring using TerraSAR-X data – Evaluation of processing methods
    and first results
    Lemp, Dirk - Universität Freiburg

39. Evaluation of TerraSAR-X InSAR for the measurements of mining subsidence
    Zbigniew Perski - University of Silesia

40. TerraSAR-X Spotlight Interferometric Observations of Archaeoastronomical
    Structures at Nabta Playa, Egypt
    Rosen, Paul - Jet Propulsion Laboratory

41. Urban sprawl analysis in megacities synergistically using Landsat and TerraSAR-
    X stripmap data
    Taubenböck, Hannes - German Aerospace Center (DLR)

42. Change detection in urban areas using TerraSAR-X spotlight images
    Schmitt, Andreas - German Aerospace Center (DLR)