OLINSAR2005 Workshop - Final Programme	
Day 1, Monday 17 January 2005	
Opening Session: Official Welcome and Keynote Speeches	
Official Welcome	ESA
SAR Polarimetry and Applications	E. Pottier
SAR Interferometry and Applications	F. Rocca
SAR Polarimetric Interferometry and Applications	S. Cloude
Spaceborne SAR Systems for Polarimetric, Interferometric and Pol-InSAR Applications	A. Moreira
Day 2, Tuesday 18 January 2005	
SAR Polarimetric Interferometry (Pol-InSAR)	Chair: W. M. Boerner/S. Cloude
Polarimetric and Interferometric Mission and Application Study	Kostas Papathanassiou
Spaceborne Polarimetric SAR Interferometry: Performance Analysis and Mission Concepts	Gerhard Krieger
Constraining Coherence Optimisation in Polarimetric Interferometry of Layered Targets	Jose Luis Gomez-Dans
Polarimetric SAR Tomography (POLTOMSAR)	Stephane Guillaso
Amplitude-Driven-Adaptive-Neighbourhood Filtering of High-Resolution Pol-InSAR Information	Gabriel Vasile
On the Need of Developing Multi-Band Differential (Multiple Pass) POLinSAR Theory and Algorithms for Remote Sensing and Monitoring Severe Environmental Stress Changes (Disasters) Such as Earthquakes, Severe Storms, Typhoons and Floods	Wolfgang-Martin Boerner
Round Table, SAR Polarimetric Interferometry (Seed Questions)	Chair: W. M. Boerner/S. Cloude
Forestry	Chair: P. Dubois-Fernandez/D. Hoekman
Forest Height Estimation by means of Polarimetric SAR Interferometry: Actual Status and Perspectives	Konstantinos Papathanassiou
Integration of Polarimetric Classification and Forest Parameter Inversion Using Pol-InSAR Data	J.S. Lee
Analysis of forest parameters SAR inversion from SLC multibaseline data	Angelo Liseno
Forest biomass estimation from P-band high incidence angle data	Pascale Dubois-Fernandez
Forest Mapping and Classification Using L-Band POLINSAR Data	Laurent Ferro-Famil
Analysis of forest parameters and agricultural field structure from high resolution PolInSAR X band data	Franck Garestier

Performance of Forest Biomass Estimation from Pol-InSAR and Forest Allometry over Temperate Forests	Tobias Mette
Validation of Heights Derived From Interferometric SAR and LIDAR over the Temperate Forest Site Nationalpark Bayerischer Wald	Thomas Aulinger
ENVISAT/ASAR data for forest observations in Siberia	A. Wiesmann (for Thuy Le Toan)
Round Table, Forestry (Seed Questions)	Chair: P. Dubois-Fernandez/D. Hoekman
Poster Session	Chair: K. Papathanassiou
Resolution effects on Polar and PolInSAR high resolution X band data	Franck Garestier
Quality Assessment of the Oriented Volume over Ground (OVoG) Model for POLINSAR Retrieval Algorithms Applied to Agricultural Crops	Juan M. Lopez-Sanchez
Polarimetric observations of the ocean surface from the airborne radar STORM	Daniele Hauser
PolInSAR data processing with RAT (Radar Tools)	Andreas Reigber
Vegetation height estimation using Polarimetric SAR Interferometry for the Monks Wood National Nature Reserve, UK	Parivash Lumsdon
A Multiscale Approach to Segmentation in Polarimetric SAR Images	Marc Jäger
Polarimetric classification using the Cloude/Pottier decomposition	Mounira Ouarzeddine
Combining High Resolution and Low Resolution Information in Synoptic Representation of Fully Polarimetric SAR Images	Jaan Praks
Quality assessment of multiparametric segmentation techniques for high resolution polarimetric SAR data	Maria Grazia Viscito
Evaluating PolInSAR Parameter Estimation Using Tomographic Imaging Results	Stephane Guillaso
	Free Poster Session
Radarsat-2 Update	Daniel De Lisle
Recent Developments in Long-Wavelength IFSAR for Long Wavelength Forest Mapping	Bryan Mercer
Day 3, Wednesday 19 January 2005	
Applications	Chair: E. Pottier/M. Sato
Fully vs. Dual Polarisation Satellite Sensors for Urban Area Analysis	Giovanna Trianni
Polarimetric Interferometry over Urban Scenarios	Rafael Zandona Schneider
Comparison between PSInSAR data in HH and VV polarization over urban areas	Alessandro Ferretti

Development of a Ground-Based Synthetic Aperture Radar (GB-SAR) System and its applications to environment monitoring and disaster prevention	Motoyuki Sato
Object Recognition with Radar Polarimetry Using Dual-Frequency and Dual Aspect Angle Observations	Teemu Tares
FOPEN with polarimetric interferometry : validations with experimental data in P-band	Elise Colin
Mapping Dry Snow in Mountain Regions from Fully Polarimetric SAR Data	Audrey Martini
Polarimetric SAR Interferometry for Snow Cover Parameter Estimation	Konstantinos Papathanassiou
Dual-polarisation measurements of the ocean surface radar cross-section: analysis from airborne radar observations and ENVISAT ASAR images	Daniele Hauser
A Preliminary Study on the Capability of SAR Polarimetry to Observe Oil Spills	Maurizio Migliaccio
Polarimetric and Interferometric Features of Oyster Farming Structures in Coastal Areas	Seung-Kuk Lee
PolSARpro: A versatile Polarimetric SAR Data Processing and Educational Toolbox	Eric Pottier
Round Table, Applications (Seed Questions)	Chair: E. Pottier/M. Sato
Land-Agriculture Applications	Chair: P. Lombardo/M. Shimada
A New Eigenvalue-based Parameter for Natural Media Characterization	Sophie Allain
Differential Extinction Estimation over Agricultural Vegetation from Pol-InSAR	Irena Hajnsek
Estimating Sub-Canopy Soil Moisture using POLInSAR	Shane Cloude
A POLINSAR Retrieval Algorithm Applied to Rice Crops	J. David Ballester-Berman
Agriculture classification using POLSAR data	Henning Skriver
On the use of ASAR polarisations for crop monitoring	Thuy Le Toan
Round Table, Land-Agriculture (Seed Questions)	Chair: P. Lombardo/M. Shimada
Day 4, Thursday 20 January 2005	
Theoretical Modelling	Chair: I. Hajnsek/T. Le Toan
On the use of a coherent scattering model to determine the origin of artificial signatures of a target hidden in a forest. Application to the P-Band POLINSAR observation of a trihedron within the Nezer forest.	Laetitia Thirion
Study of the Speckle Noise Effects Over the Eigen Decomposition of Polarimetric SAR Data	Carlos Lopez-Martinez
Generation of Pol-SAR and Pol-In-SAR Data for Homogeneous Distributed Targets Simulation	Luca Pipia

An analytical expression of the polarimetric coeherence based on two-scale surface roughness model	Francesco Mattia
Sensitivity analysis for forest interferometric, polarimetric observables estimation	Christian Ruiz
Round Table, Theoretical Modelling (Seed Questions)	Chair: I. Hajnsek/T. Le Toan
Airborne PolInSAR campaigns	Chair: S. Hensley/H. Skriver
Polarimetric Repeat-Pass Interferometric Airborne UHF SAR Data Acquisition and Calibration	Hubert Cantalloube
Polarimetric SAR in the Sendai square-loop flight by Pi-SAR	Motoyuki Sato
Swiss Alpine Airborne SAR Experiment (SASARE): Multi-baseline polarimetric SAR interferometry studies at L- and P-band	Oliver Stebler
INDREX II: Indonesian Airborne Radar Experiment Campaign over	Irena Hajnsek
Repeat Pass Processing of L-Band and P-band Data over the La Selva Forest in Costa Rica	Scott Hensley
On the need for developing high-altitude drones (UAVs) for implementation of multi-band single and multiple pass differential POLinSAR technology toward in-situ monitoring	Wolfgang-Martin Boerner
Round Table, Airborne Polinsar Campaigns (Seed Questions)	Chair: S. Hensley/H. Skriver
Spaceborne missions for Polinsar	Chair: A. Moreira/J.-C. Souyris
Feasibility Analysis of Pol-INSAR Applications with a TerraSAR-X Tandem Mission	Alberto Moreira
Polarimetric and interferometric potential of the PALSAR/ALOS	Masanobu Shimada
Applications and Design of a Multi-Polarisation 2nd Generation SAR for the COSMO/SKYMED Constellation	Fabio Dell'Acqua
A Study for COSMO-SkyMed SAR Multi-Beam of Second Generation (MSAR-2G)	Pierfrancesco Lombardo
Round Table, Spaceborne Missions (Seed Questions)	Chair: I. Hajnsek/T. Le Toan
Session Summaries	
Workshop Conclusions and Recommendations	Chair: Y.-L. Desnos/M. Engdahl
Day 5, Friday 21 January 2005	
POLSARPRO Training Course	
Topic 1: General Presentation of the PolSARpro Software	E. Pottier
Topic 2: PolSARpro - Single Data Set Package	E. Pottier
Environment, Import Raw Binary Data, Sub Area Extraction	

Polarimetric data conversion	
Change of polarisation basis	
Speckle filtering, P.W.F	
Data processing: polarimetric elements representation.	
Polarimetric decompositions and analysis	
Unsupervised Wishart - H/A/*á* Classification	
Supervised polarimetric Wishart segmentation	
Optimal Polarimetric Contrast Enhancement (O.P.C.E)	
Topic 3: PolSARpro - EO Scientific Investigator Package	E. Pottier
Speckle Filter (BoxCar, JS Lee refined filter)	
H/A/*á* Decomposition and analysis	
Unsupervised Wishart - H/A/*á* Classification	
Practical Course	