

OVERALL PROGRAMME

	Monday 21 DAY 1	Tuesday 22 DAY 2	Wednesday 23 DAY 3	Thursday 24 DAY 4	Friday 25 DAY 5
09:00 - 09:30	Intro & Opening	ESA EO Programs	ESA SENTINEL-1 Mission	ESA Earth Explorers BIOMASS and CoRe H2O	Recent Advances in Radar Polimetry
09:30 - 11:00	PoISAR Basic Concepts	PoISAR Advanced Concepts	Pol-InSAR Intro & Basics	PoISAR Surface Parameters Estimation - Intro & Basic	
11:00 - 11:30	Coffe Break				
11:30 - 13:45	PoISAR Basic Concepts	Introduction to NEST PoISARpro & NEST	Pol-InSAR Advanced Concepts	PoISAR Surface Parameters Estimation - Advanced Concepts	In-orbit and Future Polarimetric SAR Spaceborne Missions
13:45 - 15:00	Lunch Break				
15:00 - 16:30	PoISARpro Overview	PoISAR Practical PoISARpro & Land Cover	Pol-InSAR Practical Biomass Estimation	PoISAR Practical Surface Parameters Estimation	Future perspective on Radar Polarimetry and its Applications
16:30 - 17:00	Coffe Break				
17:00 - 18:30	PoISAR Practical PoISARpro & Basic Use	PoISAR Practical PoISARpro & Time-series analysis	Pol-InSAR Practical Biomass Estimation	PoISAR Practical Surface Parameters Estimation	Closing

ORGANISING COMMITTEE

- Yves Louis Desnos (ESA),
- Prof. Eric Pottier (University of Rennes 1),
- Andrea Minchella (RSAC c/o ESA),
- Ulla Vayrinen (Serco c/o ESA).

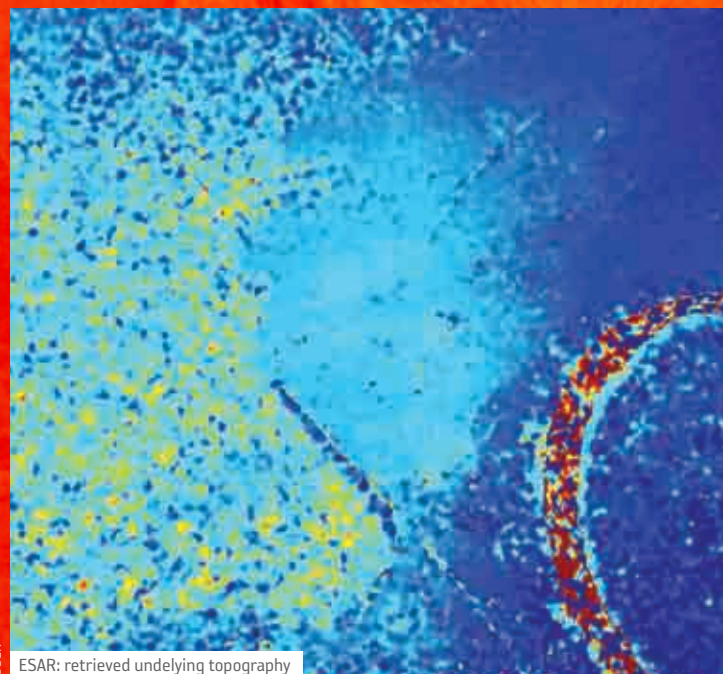
CONTACT POINTS

Course Co-Ordination

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Logistics:

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→ 2nd ADVANCED COURSE ON RADAR POLARIMETRY

21-25 January 2013 | ESA ESRIIN | Frascati (Rome), Italy

INTRODUCTION

The European Space Agency is organising the 2nd Advanced Course on Radar Polarimetry, which will be held in ESA ESRIN, Frascati, Italy on 21-25 January 2013.

Post graduate, PhD students, post – doctoral research scientists and users from European countries and Canada interested in Radar Polarimetry and its applications are invited to attend a 5 days course in the subject.

Research scientists and students from all other countries are also welcome to apply and participate to the course subject to space availability.

OBJECTIVES

The main objectives of the course are to:

- Train the next generation of European and Canadian Principal Investigators (PIs);
- Explain theoretical principles, processing algorithms, data products and their use in applications;
- Introduce available tools and methods for the exploitation of dual polarization and fully polarimetric data;
- Provide first-hand and up-to-date information on the state of the art in Radar Polarimetry and Polarimetric SAR Interferometry.



CONTENTS

The advanced course will provide a substantial and balanced introduction to the basic theory, scattering model, systems and advanced concepts, and applications typical to radar polarimetric remote sensing.

The course will include theoretical lectures as well as hands-on computing exercises exposing students to PolSAR and Pol-InSAR data processing for remote sensing applications, illustrating the use of PolSARpro, the ESA Toolbox for exploitation of EO SAR polarimetric data, with a focus on full-pol spaceborne (ALOS, RADARSAT-2, TerraSAR-X) product.

LECTURERS

The team of lecturers will be comprised of Principal Investigators and Professors from leading universities and research institutions coordinated by Prof. Eric Pottier from the University of Rennes1, France.

APPLICATION

The official language of the course is English. No participation fees will be charged. Participants are expected to finance their own travel and accommodation expenses.

Participation is limited to a maximum of 60 students and subject to selection of application. Students wishing to participate can apply on-line via the training course website.

Application Submission will be available from 1st August 2012 to 5th October 2012.

For further information please visit the Course website at:

<https://earth.esa.int/polarimetrycourse2013>

