



V.20140910

SAR Altimetry Training Course

21 October 2014, 14:00, to 22 October 2014, 18:00

Just before the 8th Coastal Altimetry Workshop

Konstanz, Germany

The SAR Altimetry Training Course is organized by ESA in the framework of the 8th Coastal Altimetry Workshop on the shore of lake Constance, as part of the Scientific Exploitation of Operational Missions Programme Element to foster a new generation of Altimeter specialists.

The course objectives are:

- Training the next generation of European and Canadian Principal Investigators (PIs)
- Teaching and demonstrating theoretical principles, processing algorithms, data products and their use in applications
- Introducing tools and methods for the scientific exploitation of SAR Altimetry data
- Stimulating and supporting the scientific exploitation of ESA EO and Third Party operational Missions

The course is focused for an audience of young researchers (PhD Students or Post-Docs) and researchers desiring to get familiar with the basics of SAR Altimetry. Priority will be given to European and Canadian citizens.

The SAR Altimetry Training Course will be held in the historical Konzil building, dating back to the 15th century.

Konzil Konstanz

Hafenstraße 2

78462 Konstanz, Germany

Candidates shall submit an application at:

<http://congrexprojects.com/2014-events/14c16/sar-altimetry-training-course>

The attendance is free of charge.

Students are required to bring a poster on their current research that will be exposed during the ice breaker cocktail.

SAR Altimetry Training Course Programme

21 October 2014, 14:00

Theoretical Lectures Session

14:00-15:00 Theory behind delay-Doppler/SAR altimetry – improvements from CryoSat to Sentinel-3 to Jason-CS/Sentinel-6

Russell K Raney, 2kR, USA

15:00-15:45 Pseudo-LRM or Reduced SAR data processing

Cristina Martin-Puig, IsardSAT, Poland, et al.

15:45-16:00 Coffee break

16:00-16:30 FBR/L1A to L1B data processing techniques and opportunities

Salvatore Dinardo, Serco, ESRIN, Italy

16:30-17:00 The Sentinel-3 SAMOSA Model and Retracking

Salvatore Dinardo, Serco, ESRIN, Italy

17:00-17:45 Algorithms within CNES/CLS Cryosat Prototype Processor

Thomas Moreau, CLS, France, François Boy, CNES, France

(presented by Jérôme Benveniste)

18:00-19:00 Ice breaker Cocktail and **Student Poster Session**

22 October 2014

SAR Altimetry Tools Demo Session

09:00-10:00 SARvatore GPOD Processing, BRAT/Sentinel-3 toolbox
Bruno Lucas, Deimos ESRIN, Italy and Salvatore Dinardo, Serco ESRIN, Italy

Next Generation SAR Altimetry Session

10:00-11:00 Next generation altimetry specific features and Jason-CS/Sentinel-6 mission description

Mònica Roca, IsardSAT, Barcelona

11:00-12:00 Enhanced SAMOSA and next generation processing evolutions for Jason-CS/Sentinel-6

Cristina Martin-Puig, IsardSAT, Poland

12:00-13:30 Lunch

Scientific Application Session

13:30-14:00 SAR altimetry for Sea Floor topography

Ole Baltazar Andersen, DTU Space, DK

14:00-14:30 SAR Altimetry over the Polar Ocean

Lars Stenseng, DTU Space, DK

14:30-15:00 SAR Altimetry in the Coastal Zone

Paolo Cipollini, NOC, UK

Hands-On Session

15:00-18:00 SARvatore Hands-On SAR Altimetry On-Line Processing

Bruno Lucas, Deimos ESRIN, Italy and Salvatore Dinardo, Serco ESRIN, Italy

(16:00-16:15 coffee break while waiting for processing output)

