

TRAINING COURSE

THE ON-DEMAND P-SBAS/ EARTHCONSOLE® SERVICE

Training course on the P-SBAS DInSAR web tool for Earth surface deformation analysis through the joint exploitation of the C-band satellite data and the EarthConsole® platform.

📅 Thursday, 18th of April 2024 14:00 - 18:00 CEST

📍 EGU General Assembly 2024 (Vienna, Austria) - Room 2.43

🔗 <https://meetingorganizer.copernicus.org/EGU24/session/50926>

In this training, you will be guided by IREA - CNR team as they teach you the basic principles of the satellite Differential Interferometry technique and how to use the on-demand P-SBAS (Parallel Small Baseline Subset) DInSAR web tool available on the EarthConsole® platform to conduct research on Earth surface displacement induced by natural (i.e. volcanic eruptions, earthquakes, landslides) or anthropogenic (i.e. aquifer exploitation, mining operations, building of infrastructures) phenomena.

You will learn how to use this tool to process both Sentinel-1 and ENVISAT SAR data in a fully unsupervised manner, all through a user-friendly web interface without the need to download data to your own processing and archiving systems.

You will also be introduced to the Network of Resources (NoR), an ESA initiative that may sponsor scientific users to exploit this tool through the EarthConsole® platform.

PROGRAMME

- **14:00 - 14:15** : Introduction to the training course
- **14:15 - 15:00** : Principles of the satellite SAR technology
- **15:00 - 15:45** : Introduction to the P-SBAS DInSAR algorithm for the analysis of the Earth surface deformation
- **15:45 - 16:15** : Break
- **16:15 - 17:00** : P-SBAS DInSAR processing within the EarthConsole® platform
- **17:00 - 17:45** : Overview of the EarthConsole® platform
- **17:45 - 18:00** : Open Discussion

REQUIREMENTS

1. Basic knowledge of SAR data is desirable. A laptop with internet connection will be needed.
2. Upon completing registration to EGU 2024, we kindly request you to confirm your attendance to the training course here: www.eventbrite.it/e/training-course-on-the-p-sbas-dinsar-web-tool-for-earth-surface-deformation-tickets-853458857417