

Preliminary Program

Each day includes morning and afternoon sessions, combining lectures, software training, real-world dataset applications and discussion with experts from the Earth Observation sector.

6–10 July 2026

Day 1 — Monday, 6 July 2026

Earth Observation Scenario, Missions and Value Chain

09:00–13:00 | EO global scenario, sensors and missions

Opening of the Summer School and introduction to the current Earth Observation landscape, including the main EO missions, sensors, data types and application domains.

14:00–17:45 | EO mission segments and downstream services

Overview of the EO value chain, from upstream and midstream activities to downstream services, with a focus on operational applications and business cases.

Day 2 — Tuesday, 7 July 2026

Software Tools and Precision Farming Applications

09:00–13:00 | EO software tools

Introduction to key software environments for Earth Observation data processing and analysis, with practical demonstrations and guided exercises.

14:00–16:45 | EO applications for precision farming

Application-oriented session on the use of EO data for precision agriculture, including work on real-world datasets and examples of operational services.

Day 3 — Wednesday, 8 July 2026

SAR Fundamentals, Detectors and Interferometry

09:00–13:00 | SAR fundamentals and detectors

Introduction to Synthetic Aperture Radar principles, including SAR imaging, interferometry and polarimetry, followed by an overview of SAR detectors and their applications.

14:00–16:45 | InSAR, DInSAR and advanced interferometry

Dedicated session on interferometric techniques for the analysis of surface deformation and ground motion, with emphasis on advanced EO applications.

Day 4 — Thursday, 9 July 2026

Ground Motion and Disaster Management

09:00–13:00 | Ground motion applications

EO-based approaches for monitoring ground deformation, including practical work with real-world datasets and examples of applied ground motion analysis.

14:00–16:45 | Disaster management: volcanology and earthquakes

Thematic session on the use of EO data for disaster management, with focus on volcanic and seismic hazards, monitoring strategies and operational applications.

Day 5 — Friday, 10 July 2026

Cultural Heritage, EO Services and Closing Panel

09:00–13:00 | EO applications for cultural heritage

Session dedicated to the use of EO technologies for cultural heritage monitoring and protection, including real-world dataset applications.

14:00–15:15 | Panel on EO services and the Abruzzo Aerospace District

Discussion on the role of the Abruzzo Aerospace District in the development of EO services, innovation ecosystems and market opportunities.

15:15–15:45 | Closing session

Final remarks, wrap-up of the Summer School and closing of the activities.