

11th ESA Training Course on Earth Observation

Preliminary Programme

Time (CET)	Monday 22/03/2021
08:00-08:30	Registration
08:30 – 08:45	<p>Welcome by representative of the Malta Council for Science and Technology Speaker: Isaac Massa</p> <p>Welcome by ESA Representative, ESA External Relations Speaker: Nathalie Tinjod</p>
08:45 – 09:45	<p>Theory: ESA Intro & Introduction to ESA EO Missions Speaker: Francesco Sarti</p> <p>Additional: Access to ESA data and to ESA Third Party Mission data</p>
09:45 – 10:30	<p>Theory: SAR Basics for Land Trainer: Pierre Louis Frison (University Gustave Eiffel)</p>
10:30 – 10:45	Coffee Break
10:45 – 12:30	(continuation)
12:30 – 13:30	Lunch Break
13:30 – 15:40	<p>RUS Exercise 1 (demo): Comparison of Urban Mapping Methods using SAR Trainer: Miguel Castro Gómez (RUS Copernicus)</p>
15:40 – 17:15	<p>RUS Exercise 1 (self-paced session): Repeat the exercise in your own RUS VM Trainers (available for support via Webex chat): Tereza Šmejkalová, Miguel Castro Gómez, Georgia Karadimou (RUS Copernicus)</p>
17:00 – 17:30	Live Q&A session with trainers

Tuesday 23/03/2021	
08:30 – 10:30	<p>Theory: SAR for Marine applications (ocean, waves, wind, currents, oil spills, ship detection) Trainer: Martin Gade (University of Hamburg)</p>
10:30 – 10:45	Coffee Break
10:45 – 12:30	(continuation)
12:30 – 13:30	Lunch Break
13:30 – 15:00	<p>RUS Exercise 2 (demo): Ship detection with Sentinel-1 (with coffee break around 15h) Trainer: Tereza Šmejkalová (RUS Copernicus)</p>
15:00 – 15:15	Coffee Break
15:15 – 15:40	(continuation)
15:40 – 17:00	<p>RUS Exercise 2 (self-paced session): Repeat the exercise in your own RUS VM Trainers (available for support via Webex chat): Tereza Šmejkalová, Miguel Castro Gómez, Georgia Karadimou (RUS Copernicus)</p>
17:00 – 17:30	Live Q&A session with trainers

Wednesday 24/03/2021	
08:30 – 11:00	Theory: Optical RS for Marine applications Trainer: Bob Brewin (University of Exeter)
11:00 – 11:30	Coffee Break
11:30 – 13:00	RUS Exercise 3 (demo): Nearshore Bathymetry Derivation with Sentinel-2 Trainer: Georgia Karadimou (RUS Copernicus)
13:00 – 14:00	Lunch Break
14:00 – 15:45	RUS Exercise 3 (self-paced session): Repeat the exercise in your own RUS VM Trainers (available for support via Webex chat): Georgia Karadimou, Tereza Šmejkalová, Miguel Castro Gómez (RUS Copernicus)
15:45 – 16:00	Live Q&A session with trainers
16:00 – 16:15	Coffee Break
16:15 – 16:45	RUS Exercise 4 (demo): Ocean colour monitoring with Sentinel-3 Trainer: Georgia Karadimou (RUS Copernicus)
16:45 – 17:15	RUS Exercise 4 (self-paced session): Repeat the exercise in your own RUS VM Trainers (available for support via Webex chat): Georgia Karadimou, Tereza Šmejkalová, Miguel Castro Gómez (RUS Copernicus)
17:15 – 17:30	Live Q&A session with trainers

Thursday 25/03/2021	
08:30 – 10:30	Theory & Demo: InSAR monitoring of volcanic deformation at Mount Etna Trainer: Gianluca Valentino (University of Malta)
10:30 – 10:45	Coffee Break
10:45 – 12:30	Theory & Demo: Using freeware tools for Sentinel5- NetCDF files Trainers: Joseph A. Zammit and Steve Zerafa (MCAST)
12:30 – 13:30	Lunch Break
13:30 – 15:00	Theory: Atmospheric Composition in the mediterranean area: Implications for Air Quality Trainer: Federico Fierli (EUMETSAT)
15:00 – 15:15	Coffee Break
15:15 – 17:30	Demo & Exercise: Discover satellite data for atmospheric composition: A case study on the mediterranean region Trainers: Julia Wagemann (EUMETSAT, Contractor)

Friday 26/03/2021	
08:30 – 10:30	Demo & Exercise: HARP toolbox - gridding exercise Trainers: Sander Niemeijer (S&T Corp)
10:30 – 10:45	Coffee Break
10:45 – 12:30	Self-paced session with presence of instructors for Q&A: Practise the handling of atmospheric composition data Trainers: Julia Wagemann (EUMETSAT, Contractor), Sander Niemeijer (S&T Corp)
12:30 – 13:00	Feedback and Certificates