

SOLAR TRAINING 9th EDITION

Sophia Antipolis January 25th – 29th, 2021

Program

Monday January 25th, 2021 (OPTIONAL)

14:00 – 16:00	Basics in solar radiation - Practical work : sun position for true north	Prof Philippe Blanc
16:00 – 16:30	Coffee break	
16:30 – 17:30	Basics in GIS	Prof Thierry Ranchin

Tuesday January 26th, 2021

08:30 – 09:00	Welcome coffee - Registration	
09:00 – 10:30	Presentation of MINES ParisTech and Transvalor Introduction of posters of OIE PhD students	Prof Thierry Ranchin Dr Etienne Wey Prof Philippe Blanc PhD Students
10:30 – 11:00	Coffee break – poster session	
11:00 – 12:00	Presentation of the SoDa service	Dr Mathilde Marchand
12:00 – 14:00	Lunch	
14:00 – 15:30	Site prospection using existing atlases (IRENA, PACA, Urban solar cadasters...)	Dr Etienne Wey
15:30 – 16:00	Coffee break – poster session	
16:00 – 17:00	In-situ measurements	Prof Philippe Blanc
17:00 – 17:30	Using existing in-situ pyranometric measurements	
17:30 – 18:00	Using existing measuring stations from a nearby network	
18:00	Adjourn day	



Centre Observation, Impacts, Energie

Wednesday January 27th, 2021

09:00 – 10:30	Practical work: Analyze cases of measurement failures	All teachers
10:30 – 11:00	Coffee break – poster session	
11:00 – 11:30	Supplementing ground data with meteorological analyses	Dr Alexandre Boilley
11:30 – 12:00	Supplementing ground data with satellite data – Introduction	Dr Claire Thomas
12:00 – 13:00	Lunch	
13:00 – 13:30	Limitations of satellite-based methods	Dr Claire Thomas and Marion Linck
13:30 – 14:30	SoDa, HelioClim and Heliosat-2, CAMS radiation and CAMS McClear services	
14:30 – 15:00	Validation	Dr Yves Marie Saint Drenan
15:00 – 15:30	Calibration of a long term satellite irradiation time series	Dr Etienne Wey
15:30	Adjourn day	

Dinner at Antibes



Solar Training Edition 9 – 25 to 29 January 2021

Centre Observation, Impacts, Energie

Thursday January 28th, 2021

09:00 – 09:45	Analyze of long term solar resource – variability and representativeness (TMY)	Prof Philippe Blanc
09:45 – 10:45	Monitoring an installation with satellite irradiation data: the challenge to deal with high resolution spatial and temporal variability	Prof Philippe Blanc, Dr Yves-Marie Saint-Drenan and Dr Etienne Wey
10:45 – 11:00	Coffee break – poster session	
11:00 – 12:00	Introduction to forecast methodologies	Dr Yves Marie Saint-Drenan and Dr Alexandre Boilley
12:00 – 14:00	Lunch	
14:00 – 16:30	News: <ul style="list-style-type: none"> - New research subjects - New SoDa services 	
16:30 – 16:45	Wrap-up	All teachers

Friday January 29th, 2021 (OPTIONAL)

09:00 – 12:30	Parallel practical work sessions <ul style="list-style-type: none"> - QGIS discovery and use for solar potential mapping - Jupyter Notebook for solar processing – Support to the pilot 3.2 “High photovoltaic penetration at urban scale” from the Horizon 2020 e-shape project Prerequisite: Python knowledge	QGIS : Dr Etienne Wey and Marion Linck Python : Dr Alexandre Boilley, Lionel Ménard, Dr Benoit Gschwing and Prof Philippe Blanc
12:30 – 14:00	Lunch	
14:00 – 16:00	Parallel practical work sessions <ul style="list-style-type: none"> - QGIS discovery and use for solar potential mapping - Jupyter Notebook for solar processing – Support to the pilot 3.2 “High photovoltaic penetration at urban scale” from the Horizon 2020 e-shape project Prerequisite: Python knowledge	QGIS : Dr Etienne Wey and Marion Linck Python : Dr Alexandre Boilley, Lionel Ménard, Dr Benoit Gschwing and Prof Philippe Blanc
16:00	Adjourn day	