

# SOLAR TRAINING 8<sup>th</sup> EDITION

## Sophia Antipolis January 20<sup>th</sup> – 24<sup>th</sup>, 2020

### Program

#### Monday January 20<sup>th</sup>, 2020 (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 21<sup>st</sup>, 2020

08:30 – 09:00	Welcome coffee - Registration	
09:00 – 10:30	Presentation of MINES ParisTech and Transvalor Presentation of PVPS task 16 (international experts network for solar resource and forecast: <a href="http://www.iea-pvps.org">www.iea-pvps.org</a> ) 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 22<sup>nd</sup>, 2020

09:00 – 11:30	Practical work: Analyze cases of measurement failures	All teachers
11:30 – 12:00	Supplementing ground data with meteorological analyses	Dr Alexandre Boilley
12:00 – 13:30	Lunch	
13:30 – 14:00	Supplementing ground data with satellite data – Introduction	Dr Claire Thomas
14:00 – 14:30	Limitations of satellite-based methods	
14:30 – 15:30	SoDa, HelioClim and Heliosat-2, CAMS radiation and CAMS McClear services	
15:30 – 16:00	Validation	Prof Philippe Blanc and Dr Mathilde Marchand
16:00 – 16:30	Coffee break – poster session	
16:30 – 17:00	Calibration of a long term satellite irradiation time series	Dr Etienne Wey
17:00 – 17:30	Analyze of long term solar resource – variability and representativeness (TMY)	Prof Philippe Blanc
17:30	Adjourn day	

Dinner at Antibes



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Centre Observation, Impacts, Energie

Thursday January 23<sup>rd</sup>, 2020

09:00 – 10:30	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
10:30 – 11:00	Coffee break – poster session	
11:00 – 12:00	Introduction to forecast methodologies	Dr Yves Marie Saint-Drenan
12:00 – 13:30	Lunch	
13:30 – 14:15	Bank and projects financing – Questions and answers	
14:15 – 16:30	News: <ul style="list-style-type: none"> <li>- New research subjects: <ul style="list-style-type: none"> <li>o NEXTGEOSS: <a href="http://www.nextgeoss.eu">www.nextgeoss.eu</a></li> <li>o E-SHAPE: <a href="http://www.e-shape.eu">www.e-shape.eu</a></li> </ul> </li> <li>- New SoDa services <ul style="list-style-type: none"> <li>o Solar cadasters</li> <li>o Solar forecasting</li> <li>o Spectral service</li> </ul> </li> </ul>	Prof Philippe Blanc and Lionel Ménard  Dr Etienne Wey Dr Alexandre Boilley Dr Claire Thomas
16:30 – 16:45	Wrap-up	All teachers

Friday January 24<sup>th</sup>, 2020 (OPTIONAL)

09:00 – 12:30	Parallel practical work sessions <ul style="list-style-type: none"> <li>- QGIS discovery and use for solar potential mapping</li> <li>- Jupyter Notebook for solar processing</li> </ul> Prerequisite: Python knowledge	QGIS : Dr Etienne Wey Python : Dr Alexandre Boilley and Prof Philippe Blanc
12:30 – 14:00	Lunch	
14:00 – 16:00	Parallel practical work sessions <ul style="list-style-type: none"> <li>- QGIS discovery and use for solar potential mapping</li> <li>- Jupyter Notebook for solar processing</li> </ul> Prerequisite: Python knowledge	QGIS : Dr Etienne Wey Python : Dr Alexandre Boilley and Prof Philippe Blanc
16:00	Adjourn day	