



Centre Observation, Impacts, Energie

# SOLAR TRAINING 7<sup>th</sup> EDITION

## Sophia Antipolis January 21<sup>st</sup> – 25<sup>th</sup>, 2019

### Program

Monday January 21<sup>st</sup>, 2019 (OPTIONAL)

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

Tuesday January 22<sup>nd</sup>, 2019

08:30 – 09:00	Welcome coffee - Registration	
09:00 – 10:30	Presentation of MINES ParisTech and Transvalor - "Ice breaker" – 5 min introduction of posters of OIE PhD students – Presentation of the mind map that attendees will be able to fill all training long.	Prof Philippe Blanc Dr Etienne Wey Dr Claire Thomas
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	

Transvalor S.A.  
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Sophia Antipolis  
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06255 Mougins Cedex – France

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Wednesday January 23<sup>rd</sup>, 2019

09:00 – 10:00	Practical work: Analyze cases of measurement failures	All teachers
10:00 – 10:30	Supplementing ground data with meteorological analyses	Dr Alexandre Boilley
10:30 – 11:00	Coffee break – poster session	
11:00 – 11:30	Supplementing ground data with satellite data – Introduction	Dr Claire Thomas
11:30 – 12:00	Limitations of satellite-based methods	
12:00 – 14:00	Lunch	
14:00 – 15:00	SoDa, HelioClim and Heliosat-2, CAMS radiation and CAMS McClear services	Dr Claire Thomas
15:00 – 15:30	Validation	Dr Mathilde Marchand
15:30 – 16:00	Calibration of a long term satellite irradiation time series	Dr Etienne Wey
16:00 – 16:30	Coffee break – poster session	
16:30 – 17:00	Analyze of long term solar resource – variability and representativeness (TMY)	Prof Philippe Blanc
17:00	Adjourn day	

Dinner at Antibes



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Thursday January 24<sup>th</sup>, 2019

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 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	Pierre-Antoine Machelon
14:15 – 16:15	New projects: <ul style="list-style-type: none"><li>- Spectral radiation values: UV, Photosynthetically Active Radiation, PV</li><li>- Heliosat-5: toward a global coverage of HelioClim</li><li>- NEXTGEOSS: access to gridded CAMS data</li></ul>	Dr Thomas Benoit Tournadre, PhD student Lionel Ménard and Hadrien Verbois, PhD student
16:15 – 16:45	Round table: debriefing of the mind map: collect recommendations from attendees to improve the training. Distribution of questionnaires and feedback	All teachers
16:45	Adjourn day	

Friday January 25<sup>th</sup>, 2019 (OPTIONAL)

09:00 – 12:30	Parallel practical work sessions <ul style="list-style-type: none"><li>- QGIS discovery and use</li><li>- Tutorial for resource assessment (management of technical data): Prerequisite: MatLab knowledge</li></ul>	QGIS : Dr Etienne Wey Resource assessment : 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</li><li>- Tutorial for resource assessment (management of technical data): Prerequisite: MatLab knowledge</li></ul>	QGIS : Dr Etienne Wey Resource assessment : Prof Philippe Blanc
16:00	Adjourn day	

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