



Program of the summer school

"sEnsing Of vegetation traits in timE aNd SpacE (EO-SENSE)"

23-24 September 2020 Online event

HRS	Wednesday 23.9	Thursday 24.9
0800 - 0945	Introduction to the Training School - <i>Enrico Tomelleri (unibz)</i>	<u>Lecture</u> : The basics of Spectroradiometers: How Spectrometers work. Calibration. Sources of instrument uncertainty - <i>Andreas Hueni (UZH), Simon Trim (UZH)</i>
	<u>Talks</u> from selected participants (4 mins each)	<u>Lecture</u> : Field Spectroscopy: sources of operator and protocol related uncertainties - <i>Carmen Meiller (UZH), Andreas Hueni (UZH)</i>
coffee break		
1000 - 1100	<u>Lecture</u> : Retrieval approaches of vegetation traits and application to imaging spectroscopy - <i>Katja Berger (LMU)</i>	<u>Lecture/tutorial</u> : EnMAP-Box Agri-tools - <i>Matthias Woher (LMU), Katja Berger (LMU)</i>
1100 - 1200	<u>Lecture</u> : Measuring and interpreting dynamical photosynthesis-related traits: PRI and solar-induced fluorescence - <i>Shari Van Wittenberghe (IPL)</i>	<u>Lecture/tutorial</u> : Use of RTMs and retrieval toolboxes with ARTMO - <i>Jochem Verrelst (IPL)</i>
lunch break		
1300 - 1400	<u>Lecture</u> : Introduction to time series analysis of vegetation data - <i>Clement Atzberger (BOKU)</i> <u>Example</u> : Phenocams for field-phenotyping - <i>Helge Aasen (ETH)</i>	<u>Talks</u> from selected participants (4 mins each)
1400 - 1500	<u>Lecture</u> : Vegetation stress detection: How to interpret thermal, hyperspectral and 3D & structure from motion remote sensing data - <i>Miriam Machwitz (LIST), Martin Schlerf (LIST), Stefan Paulus (IFZ)</i>	<u>Tutorial</u> : DATimeS Time Series toolbox - <i>Santiago Belda (IPL)</i>
coffee break		
1515 - 1615	<u>Examples</u> for stress detection: Water stress on different crops, diseases in viticulture, green house experiments on ray and sugar beet - <i>Miriam Machwitz (LIST), Martin Schlerf (LIST), Stefan Paulus (IFZ)</i>	Discussion and closing
1615 - 1700	Discussion	

Looking forward to your active participation!

The Summer School organizing committee.