

## SENSECO All WGs Workshop & MC-2 Meeting

Time: Monday 25 March 2019 14:30 hrs - Wednesday 27 March 2019 11:00 hrs

Location: Rectorate building (#25), University of Aveiro, Portugal

### Objectives

All WGs Workshop: Inform SENSECO participants about WGs recent activities & outcomes and invite WG participants / external speakers present related research.

MC-2 Meeting: Reporting for Grant Period #1 and Approval of the Grant Period #2 Work and Budget Plan

### Draft Agenda

#### Monday 25 March

14:30 Welcome coffee

14:45-15:00 Introduction (Action Chair / Co-Chair / Local Host)

#### **15-18 hrs Working Group 1 (Chair: MaPi, Javier, Paula)**

15:00 - 15:15	Paula, Javier, MaPi	WG1 presentation + WG1 questionnaire
15:15 - 15:20	Alberto Hornero/Jochem Verrelst	Closing the scaling gap: towards a comparison study of leaf and canopy fluorescence radiative transfer models
15:20 - 15:40	Abdelaziz Kallel	Fluorescence modeling from leaf to canopy based on Monte Carlo RT simulation
15:40 - 16:00	Lea Hallik	MULTIscale SENTINEL land surface information retrieval Platform (MULTIPLY)
16:00 - 16:20	Lachezar Filchev	tba // missing confirmation (??)
16:00 - 16:20	Shawn C. Kefauver	Satellites, UAVs and mobile phones for Agroforestry
16:20 - 16:40	Paula Antunes Matos	tba
16:40 - 17:10	coffee break	
17:10 - 17:30	Pilar Martin	Modelling optical properties of a tree-grass ecosystem by coupling PROSAIL and FLIGHT Radiative Transfer Models
17:30 - 17:50	Sebastian Wieneke	Sun-induced fluorescence yield under plant stress - from canopy to leaf and back
17:50 - 18:00	Paula, Javier, MaPi	WG1 questionnaire results

18:00-18:30 Core Group Meeting

#### Tuesday 26 March

#### **9-12 Working Group 2 (Chair: Lammert, Helge, Jean-Louis)**

9:00 - 9:10	Lammert Kooistra	short introduction of WG2
9:10 - 9:30	Santiago Belda	DATimeS: a GUI time series toolbox for quantifying trends in vegetation phenology
9:30 - 9:50	Helge Aasen	Very-high temporal and spatial resolution time series data from Phenocams and UAVs for phenotyping and agricultural research
9:50 - 10:10	Offer Rozenstein	Remote sensing modelling of crop water consumption and its application in precision irrigation, crop yield forecasting, and national water consumption estimations

10:10 - 10:30	coffee break	
10:30 - 10:50	Paul Nathe	Data Postprocessing of FloX Monitoring Field Spectrometers to Enable the Study of Seasonal Trends in Sun-induced Chlorophyll Fluorescence at Canopy Scale
10:50 - 11:10	Lammert Kooistra	Time series analysis: experience from the BFast toolboxes and opportunities for applications in high-resolution UAV datasets
11:10 - 11:30	Jean-Louis Roujean	Surface albedo & normalized reflectance products at high resolution (hr) from a combination of sentinel-2 and landsat-8 observations
11:30 - 12:00	all	Open discussion based on contributions of WG-2 participants

12:00-13:00 Lunch

### 13-15:30 Working Group 3 (Chair: Miriam, Uwe, Marlana)

13:00-13:15	Miriam Machwitz	Short introduction of WG3 and collection of available databases (Database collection realized by Corine Davids who will not attend)
13:15-13:30	Marlena Kycko	Overview on the existing literature, projects, consortiums, reports and networks that aim to use remote and proximal sensing for detection of drought stress in relevant crops.
13:30-13:50	Laura Mihai	Overview on existing protocols on (i) sensor calibration, (ii) sensor employment and (iii) data fusion.
13:50-14:10	Lucie Homolová	Multi-sensor data from Czech Globe and examples from related projects
14:10-14:30	Dainis Jakovels	The experience of the Institute for Environmental Solutions in the combination of hyperspectral and thermal data and possible cooperation options
14:30-14:45	Uwe Rascher	Data from the 2018 FLEX campaign
14:45-15:00	Clement Atzberger	Experiences using RTMs to assess crop and nutrient requirements in agriculture
15:00-15:30	all	Open discussion based on contributions form WG-3 participants

15:30-16:00 Afternoon tea break

### 16-18:30 Working Group 4 (Chair: Andy, Laura, Paula)

16:00-16:15	Andreas Hueni	Field Spectroscopy - is absolute, traceable reflectance the holy grail?
16:15-16:30	Laura Mihai	Considerations for field spectrometers spectral characterization and calibration
16:30-16:50	Javier Pacheco Labrador	Sun-induced chlorophyll fluorescence I: Instrumental considerations for proximal spectroradiometers
16:50-17:10	Jan Pisek	Reflectance reference target at Järvselja, Estonia for the calibration of optical remote sensing sensors and lessons learned
17:10-17:30	Kadmiel Maseyk	Temperature dependence of the Piccolo-Doppio system from controlled environment measurements
17:30-17:45	Paul Naethe	Vegetation monitoring with FloX and RoX considering field setup, calibration and data quality
17:45-18:00	MaPi Cendrero-Mateo	Sun-induced chlorophyll fluorescence III: benchmarking retrieval methods and sensor characteristics for proximal sensing
18:00-18:30	all	Responses to questionnaire

18:30-19:00 Overall Summary & Conclusions

Dinner

Wednesday 27 March (MC Members / Substitutes)

**8:30-10:45 Management Committee Meeting**

10:45-11:00 Post-mortem MC-2 Core Group Meeting (optional)

12:00 Lunch (optional)