



WITH



International remote sensing school for hydrological applications 2018

H-SAF PRODUCTS APPLICATION

SOIL MOISTURE FOR HYDROLOGICAL RISK MANAGEMENT

Rome, Italy, 13th – 16th November 2018

TUESDAY 13 NOVEMBER

INTRODUCTION AND H SAF SOIL MOISTURE PRODUCTS

MORNING SESSION

9.00 - 9.15 **Welcome:** *H SAF Project Manager*

9.15 - 9.30 **Introduction to the SAF:** *EUMETSAT*

09.30 – 10.00 **Introduction to the H SAF:** *H SAF Management*

10.00 – 10.30 **Introduction to the user area:** *DPC*

10.30 - 11.00 **Introduction to the course:** *DPC*

11.00 - 11.30 Coffee break

11.30 - 12.30 **Lecture 1 - Remote sensing of Soil Moisture (SM):** *CNR-IRPI or TUWien*

12.30 – 13.30 **Lecture 2 - H SAF Satellite surface SM products:** *TUWien*

13.30 - 14.30 Lunch

AFTERNOON SESSION

14.30 - 15.30 **Lecture 3 - H SAF surface and root-zone SM data assimilation products:** *ECMWF*

15.30 - 16.30 **Exercise 1 - Managing (download and use) of H SAF SM products:** *TUWien & ECMWF*

16.30 - 16.45 Coffee break

16.45 - 17.45 **Exercise 2 - Visualization of H SAF SM products:** *TUWien*

17.45 - 18.00 **Working Group (WG) definition:** *DPC*



WITH



WEDNESDAY 14 NOVEMBER

FLOOD AND DROUGHT THROUGH H SAF SOIL MOISTURE PRODUCTS

MORNING SESSION

9.00 - 10:00 **Lecture 4 - Analysis of satellite SM spatial patterns:** *CIMA*

10:00 - 10.45 **Exercise 3 - Application of Lecture 4 in the student basins:** *CIMA & IRPI-CNR*

10.45 - 11.15 Coffee break

11.15 - 12.30 **Lecture 5 - Analysis of satellite SM time series:** *IRPI-CNR*

12.30 - 13.15 **Exercise 4 - Application of Lecture 5 in the student basins:** *IRPI-CNR & CIMA*

13.15 - 14.30 Lunch

AFTERNOON SESSION

14.30 - 15.15 **Lecture 6 - Flood and drought through H SAF SM products:** *IRPI-CNR*

15.15 - 16.30 **Lab 1 – Flood and drought in the student basins**

16.30 - 17.00 Coffee break

17.00 - 18.00 **Lab 1 - Flood and drought in the student basins (continuation)**



WITH



THURSDAY 15 NOVEMBER

H SAF SOIL MOISTURE PRODUCTS EXPLOITATION FOR FLOOD PREDICTION AND HAZARD ASSESSMENT

MORNING SESSION

9.00 - 10:00 **Lecture 7 - SM assimilation for flood prediction: CIMA + ECMWF? IMGW?**

10:00 - 10.45 **Exercise 5 - Modelled versus satellite SM: CIMA + IRPI-CNR**

10.45 - 11.15 Coffee break

11.15 - 12.30 **Exercise 6 - Hydrological model application to WG basin: CIMA + IRPI-CNR**

12.30 - 13.15 **Lecture 8 - Exploitation of H SAF SM for hazard assessment: IRPI-CNR**

13.15 - 14.30 Lunch

AFTERNOON SESSION

14.30 - 16.30 **Lab 2 - SM data assimilation in the WG basins**

16.30 - 17.00 Coffee break

17.00 - 18.00 **Lab 3 - Hazard assessment through SM in the WG basins**



WITH



FRIDAY 16 NOVEMBER

WORKING GROUP PRESENTATION AND FINAL DISCUSSION

MORNING SESSION

08:30 - 09:00 Organization of presentations by WGs

09.00 - 11.00 **WG presentation**

11.00 - 11.30 Coffee break

11.30 - 12.30 **Discussion and feedback**

12.30 - 13.30 **Closure of the course**