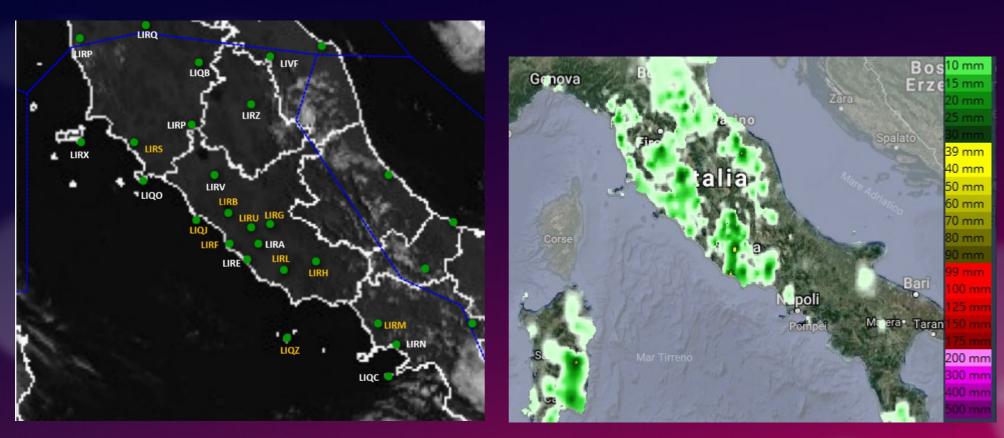
# Thunderstorms on Central Italy 25/06/2018 13.00-15.00 UTC

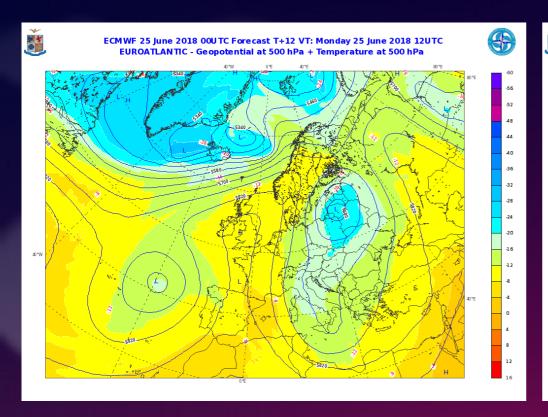
Lt. Valentina ROSATI
Italian Air Force

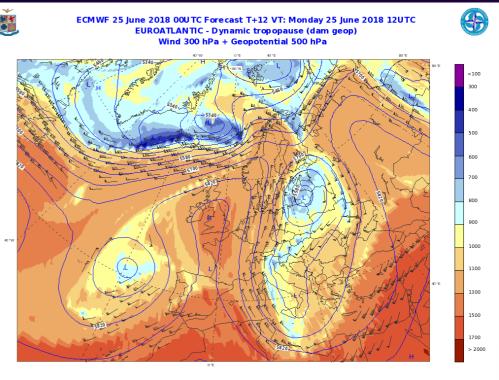
#### Introduction



- METAR from stations in the area (13 21 UTC)
- Cumulated precipitations 13 16 UTC / DEWETRA Software Civil Protection Department

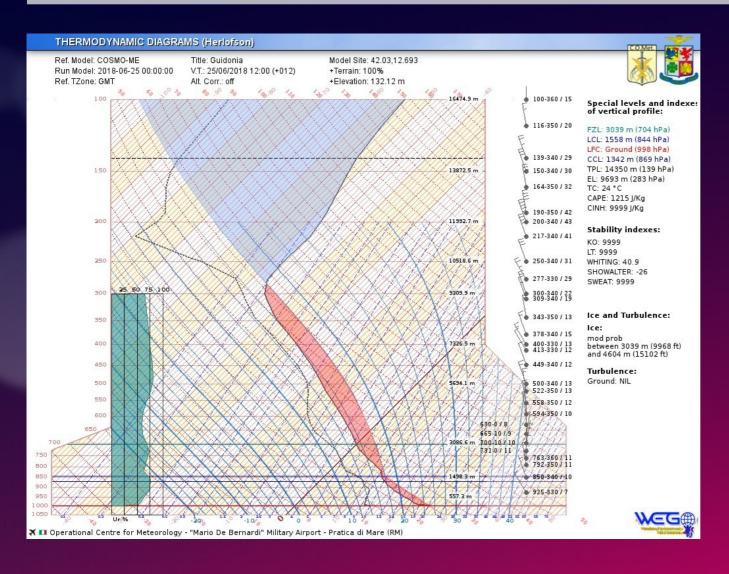
#### Forecasting





- Cut off on North-Eastern Europe
- Cold air descending on Central Italy
- Jet streak

#### Forecasting

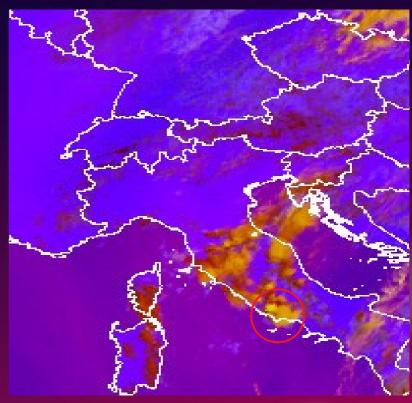


#### **Sounding on Guidonia**

- CAPE: 1215 J/Kg
- Whiting Index: 40.9



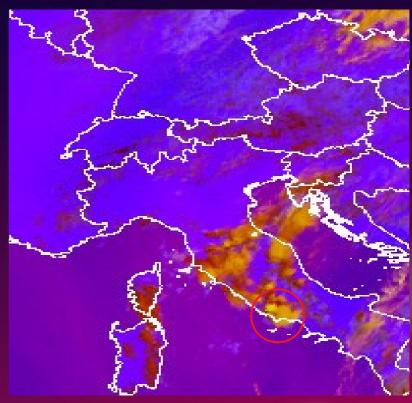
MSG4 HRV Channel - 1300 UTC



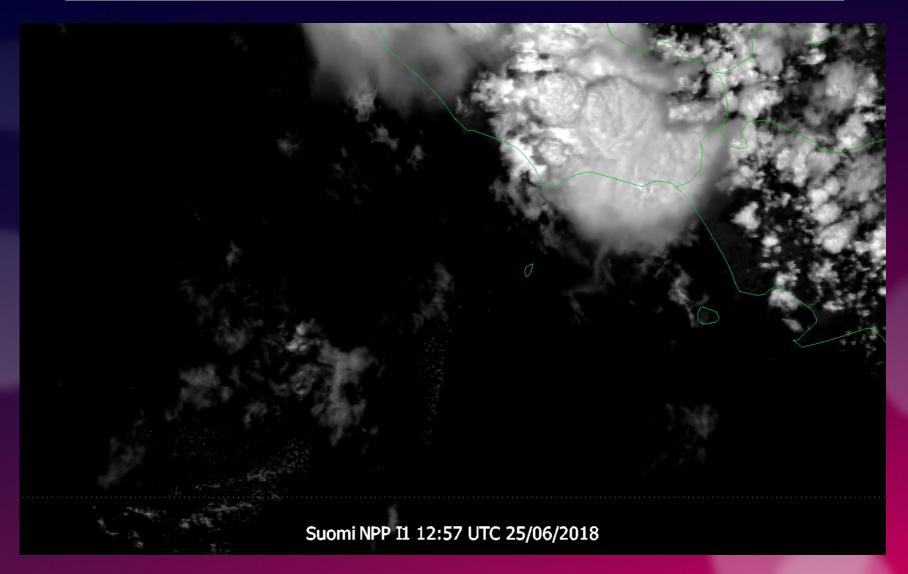
Convection RGB - 1300 UTC

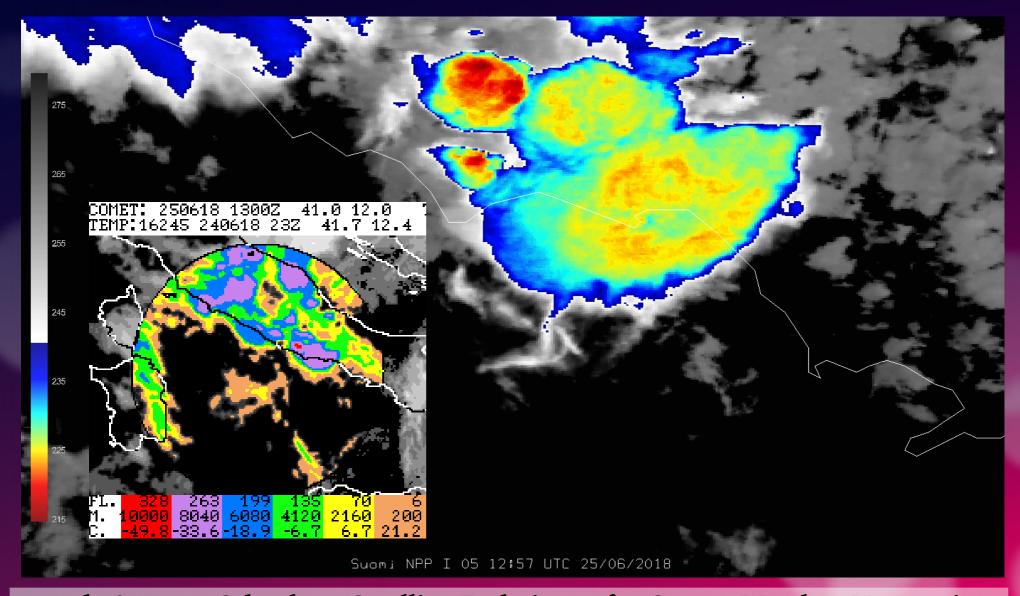


MSG4 HRV Channel - 1300 UTC

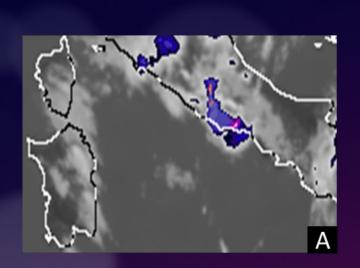


Convection RGB - 1300 UTC

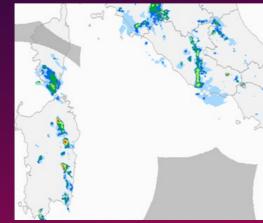




#### Ground Observations



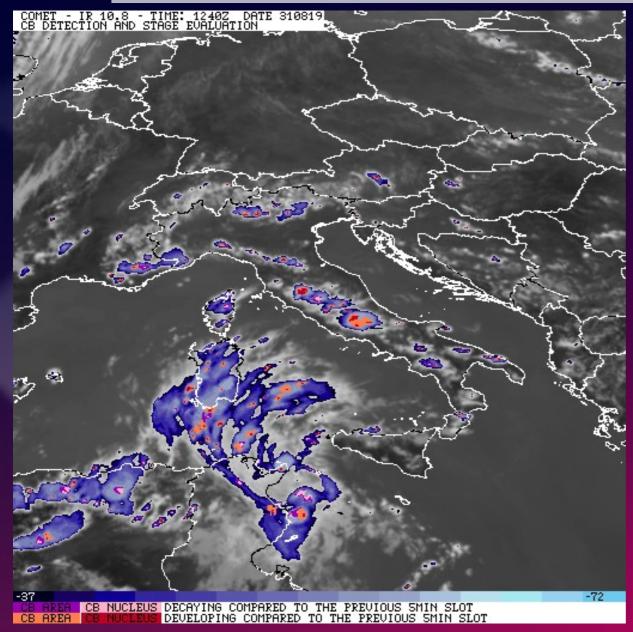




13:30 UTC

- A) NEFODINA
- **B) LAMPINET**
- C) IR 10.8 ENHANCED
- D) SRI Radar National Network

#### Nefodina



#### **Application:**

To assess the presence of thunderstorms and their intensity and to monitor their life cycle (developing/dissolving phase) using geostationary satellite data.

NEFODINA provides information on convective nuclei inside cloudy systems using a multichannel approach. The product consists of the last infrared image (ch10.8) where the convective cells and their phase are represented. This graphical output image is associated to an ASCII file where the minimum, medium and modal BT of the IR1, WV1, WV2 channels are reported with position, shape, slope area and other information for each convective cell since when it was detected.

http://www.meteoam.it/nefodina/enhttps://www.essl.org/cwg/

