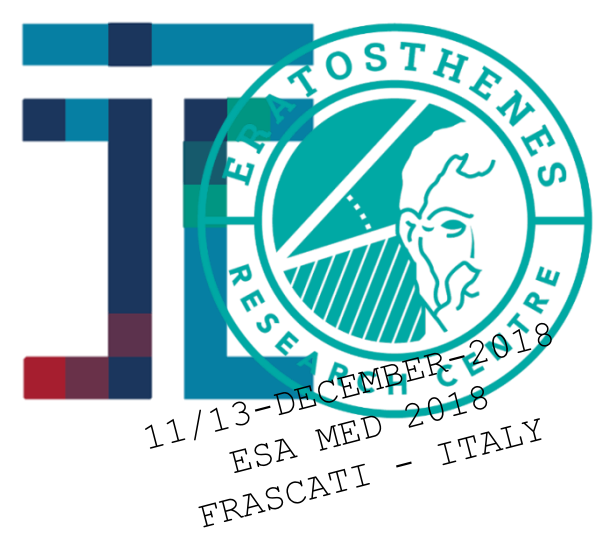


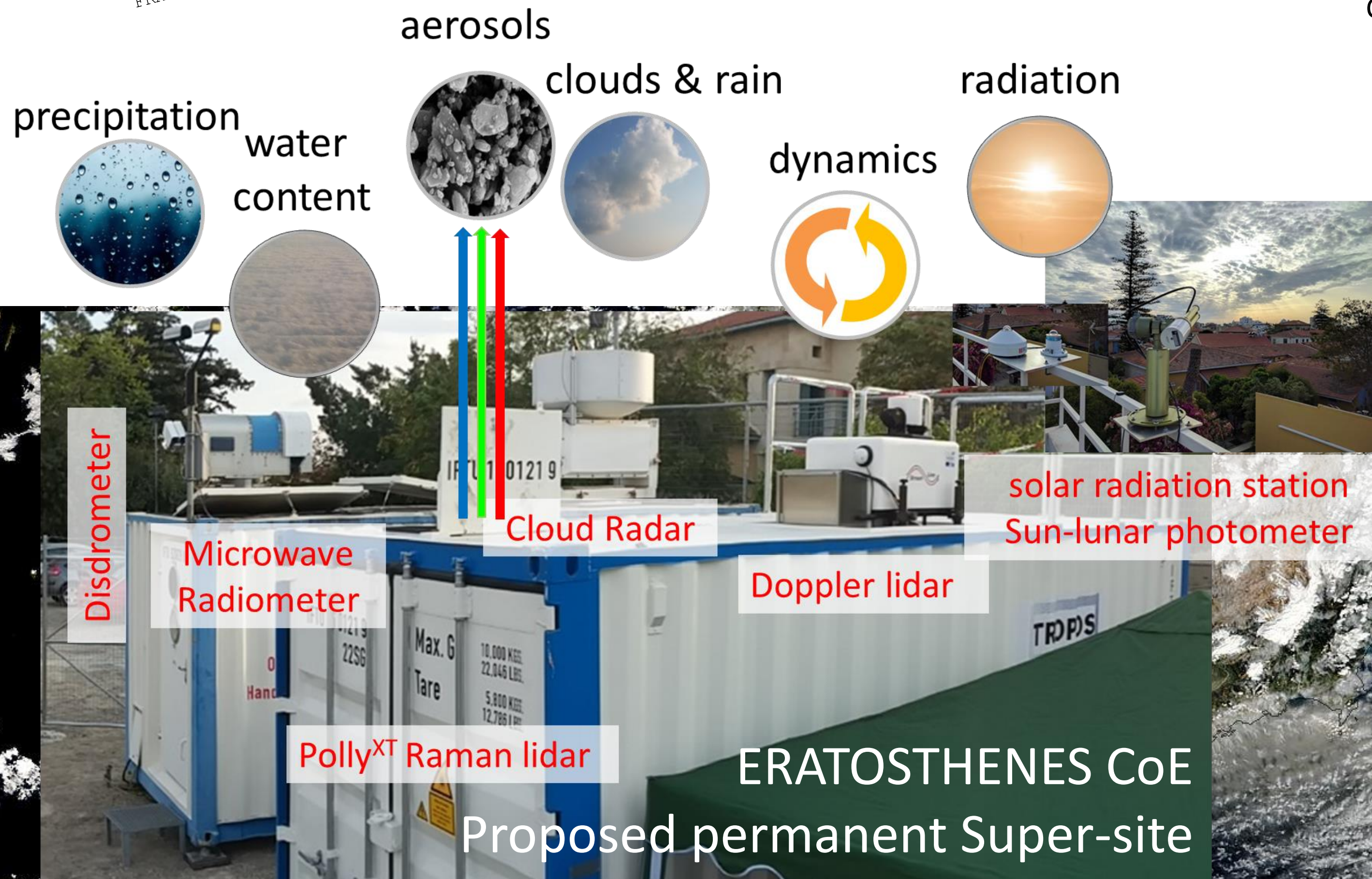
# The Potential of an Atmospheric Remote Sensing Supersite in the EMMENA Region: An Opportunity Through the ECoE



DIOFANTOS G. HADJIMITSIS<sup>1</sup>, ALBERT ANSMANN<sup>2</sup>, HARIS KONTOES<sup>3</sup>, GUNTER SCHREIER<sup>4</sup>, GEORGE KOMODROMOS<sup>5</sup>, JOHANNES BÜHL<sup>2</sup>, RODANTHI-ELISAVET MAMOURI<sup>1</sup>, SILAS MICHAELIDES<sup>1</sup>, ARGYRO NISANTZI<sup>1</sup>, PATRIC SEIFERT<sup>2</sup>, KYRIACOS THEMISTOCLEOUS<sup>1</sup> AND ULLA WANDINGER<sup>2</sup>

1. Cyprus University of Technology, ERATOSTHENES Research Centre, Faculty of Engineering and Technology, Cyprus | 2. Leibniz Institut für Troposphärenforschung, Leipzig, Germany | 3. National Observatory of Athens, Athens, Greece | 4. Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Berlin, Germany | 5. Department of Electronic Communications of the Ministry of Transport, Communications and Works, Nicosia Cyprus.

contact: rodanthi.mamouri@cut.ac.cy

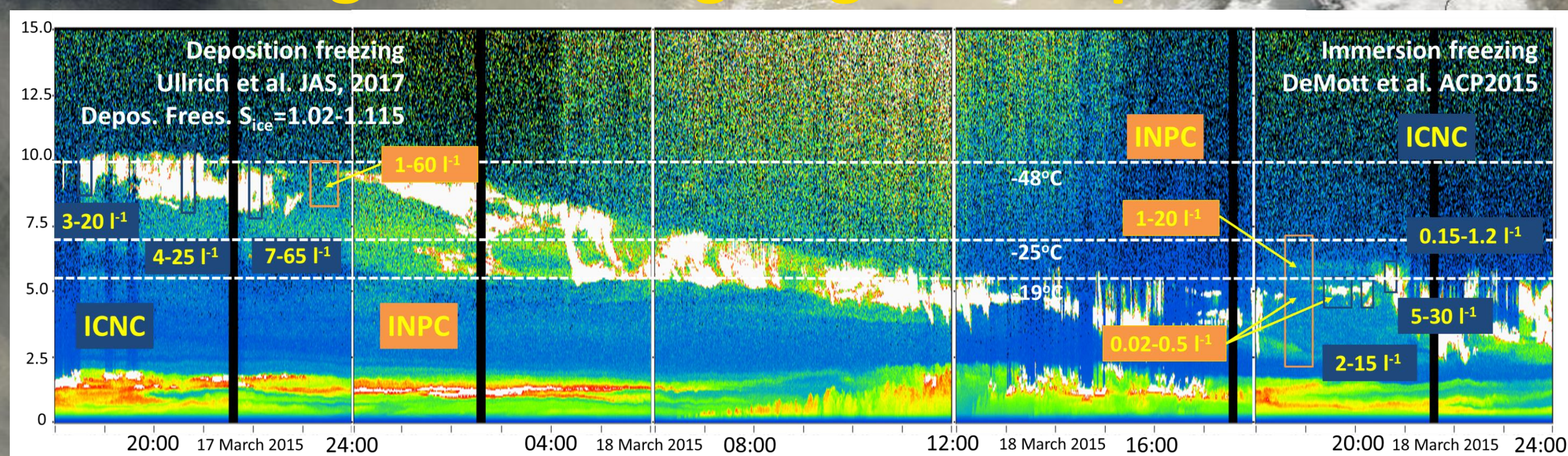


**Limassol, Cyprus [34.7°N, 33°E]**  
**ideal natural laboratory**  
**for advanced and comprehensive**  
**field studies of**  
**climate change,**  
**aerosol-cloud-dynamics-precipitation interaction,**  
**weather-precipitation-dryness complex,**  
**representative for**  
**typical Mediterranean and even Middle East**  
**meteorological conditions and for coastal areas in**  
**the EMMENA region**

The vision of the **ERATOSTHENES Research Centre** of the Cyprus University of Technology (CUT) is to become a **Centre of Excellence for Earth Surveillance and Space-Based Monitoring of the Environment** in the framework of the EU H2020 Teaming project EXCELSIOR [GA No 763643]. The EXCELSIOR team consists of CUT, DLR, NOA, TROPOS, and the Cyprus' Department of Electronic Communications (DEC-MTCW).

**EXCELSIOR** can be regarded as a pioneering step forward to establish modern atmospheric field research in the EMMENA region and to upgrade the position of Cyprus in the European atmospheric monitoring landscape and networking infrastructures by means of active/passive remote sensing from ground and space.

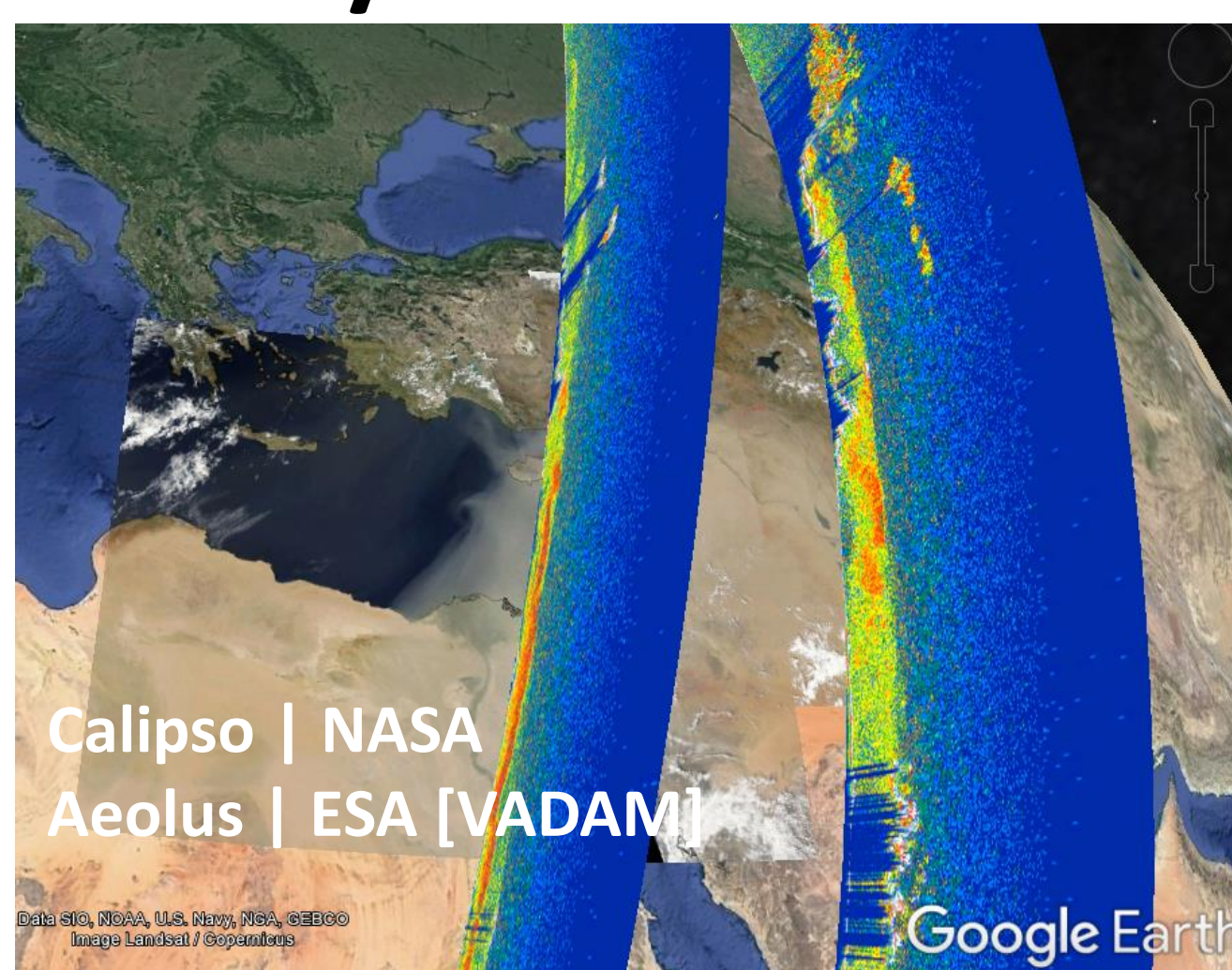
## Monitoring and cutting-edge atmospheric research



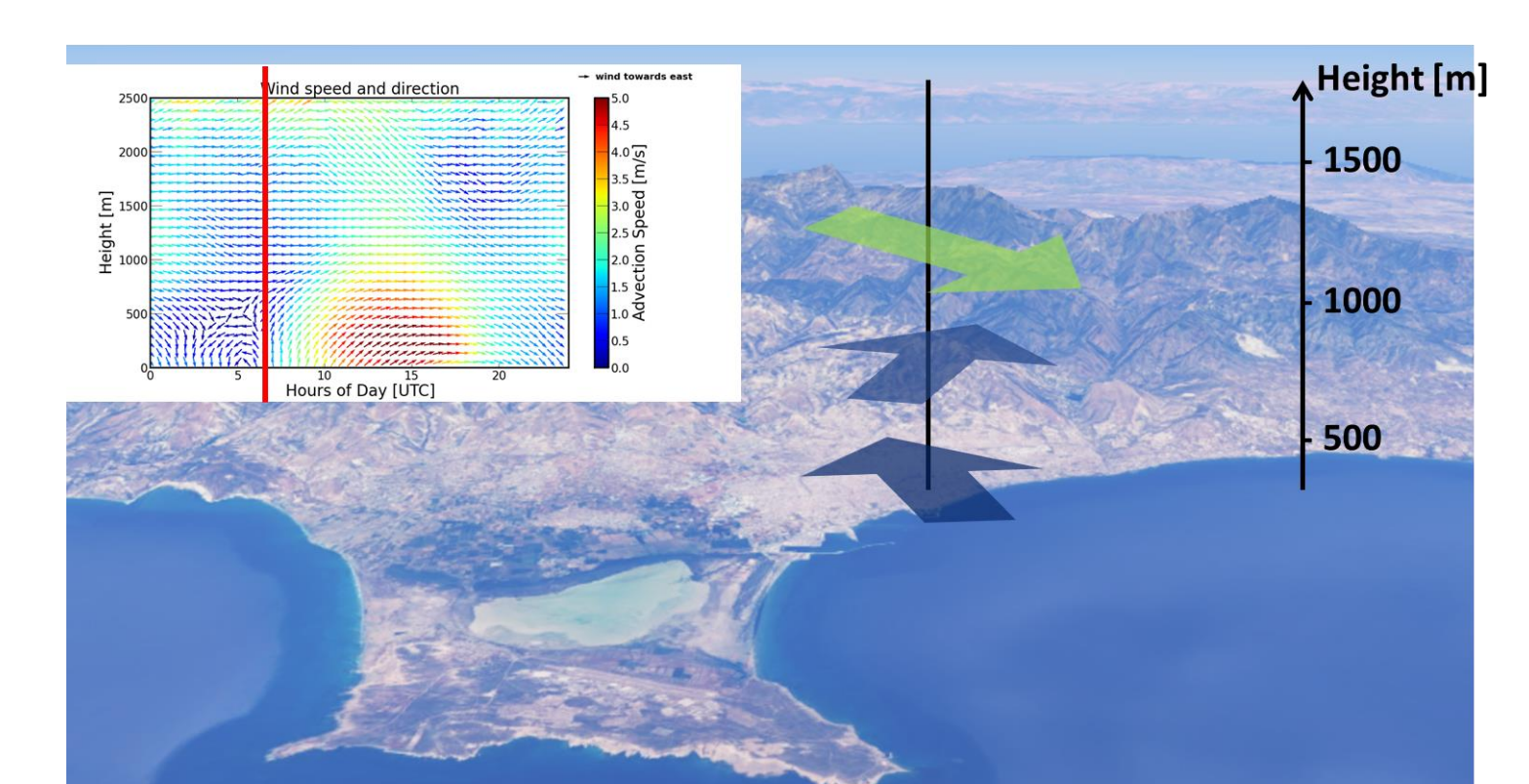
## Closure studies - Campaigns



## Ground Truth CAL/VAL activities



## Local-Coastal Circulation



This paper is funded by the EXCELSIOR Teaming Project which has received funding from the European Union's Horizon 2020 research and innovation programme, under grant agreement No 763643: Work programme H2020 under "Spreading Excellence and Widening Participation", call: H2020-WIDESPREAD-04-2017: TeamingPhase1 (Coordination and Support Action) (www.excelcior2020.eu) ERATOSTHENES Research Centre of Cyprus University of Technology thanks ACTRIS-2 (H2020-INFRAIA-2014-2015) under grant agreement no. 654109)

Acknowledgements