ERATOSTHENES Centre of Excellence (ECoE)



Excellence Research Centre for Earth Surveillance & Space-Based Monitoring of the Environment

1st virtual EXCELSIOR International Technical Workshop

15 July 2020

Advantages and Challenges for Space related Infrastructure in Cyprus

@excelsior2020eu









Gunter Schreier

This project has received funding from

the European Union's Horizon 2020

research and innovation programme

under grant agreement No 857510

German Aerospace Center – German Remote Sensing Data Center DLR - DFD





This project has received funding from the Government of the Republic of Cyprus through the Directorate General of the European's Programmes, Coordination and Development

CONSORTIUM











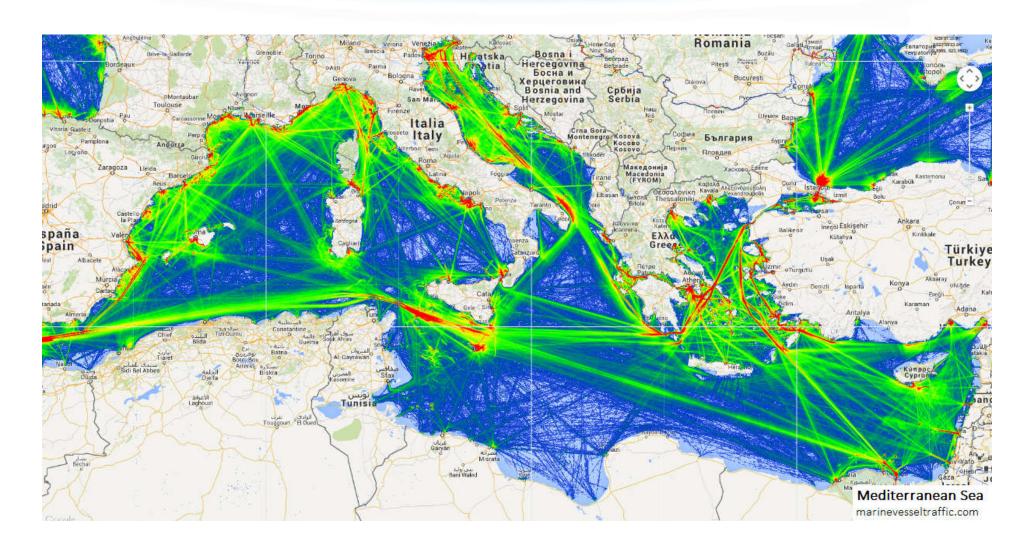
Cyprus at the periphery of European Union — in the Center of EMMENA*:

- Craddle of civilisation
 - World Heritage, Archaelogy
- Gateway to three continents
 - Commerce and trade
 - Conflict, claims, migration
- Environmental richness and endangerment
 - Global Envrionmental Change
 - Natural Risks
- Role in European Green Deal



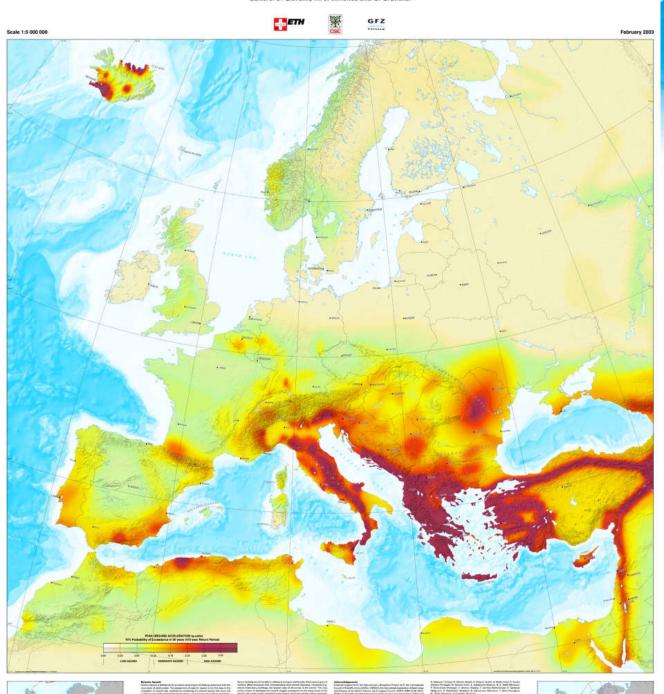
^{*} Eastern Mediterranean, Middle East and North Africa

Mediterranean shipping routes



EUROPEAN-MEDITERRANEAN SEISMIC HAZARD MAP

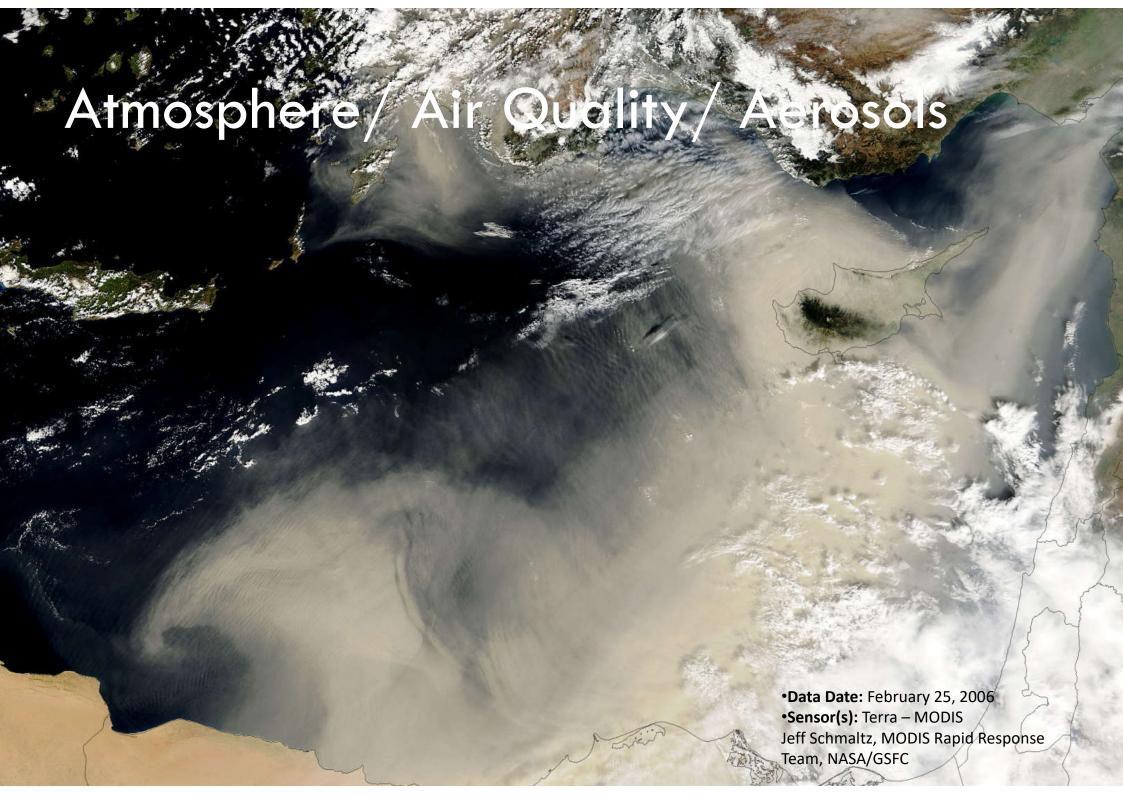
Editors: D. Giardini, M. J. Jiménez and G. Grünthal



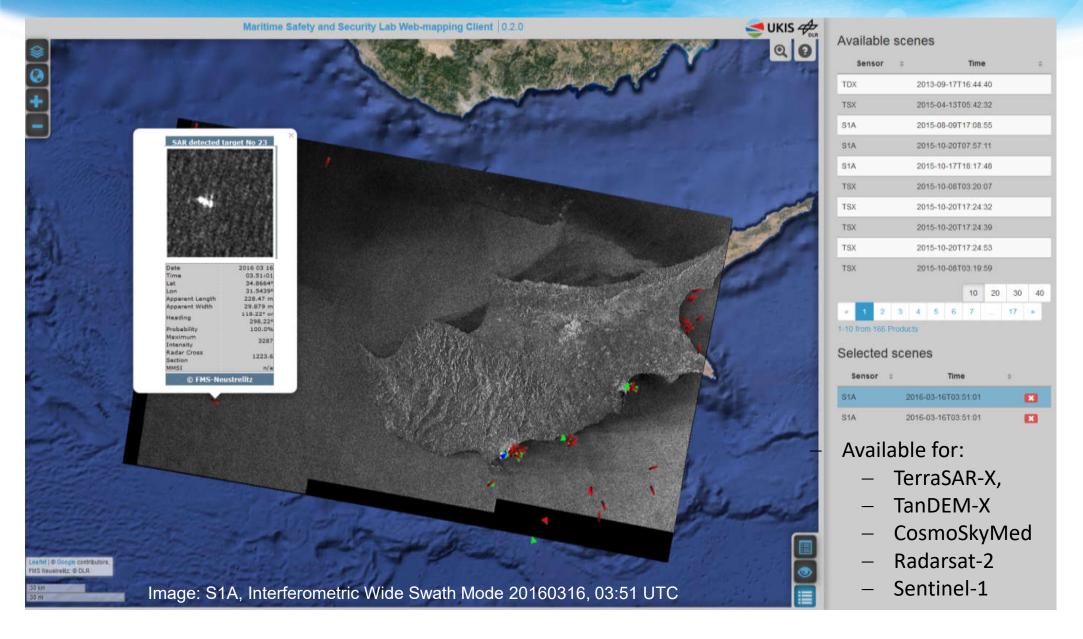
Centre for Earth Surveillance

EMMENA:

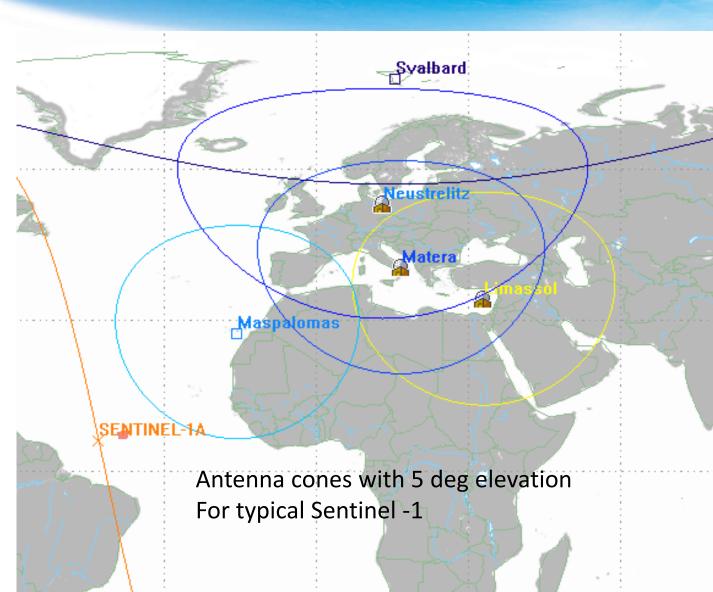
Endangered by seismic hazards



Earth ObservationApplication: Maritime Awareness



Cyprus station in European context







Space related Infrastructure in Cyprus

- Satellite to Ground Communications
 - Payload & Telecommand
 - HF bands & optical
 - Equatorial orbits of future systems
- Calibration, Validation
 - Test & Calibration Sites
 - In Situ, ground based measurements
- Earth Observation Data Hubs
 - Regional IT Platforms for Data and Services
- "Launch & Landing Site"









