



## GEO-CRADLE NEWSLETTER

ISSUE #6, September 2017

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CALENDAR

! Highlights !

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### GEO-CRADLE: Fostering Regional Cooperation and Roadmap for GEOSS and Copernicus

The [GEO-CRADLE](#) EU funded project will actively participate in the [GEO-XIV Plenary](#) with a message "Fostering regional cooperation and roadmap for GEOSS and Copernicus". The [GEO Week 2017](#) will take place at the Ronald Reagan Building and International Trade Center in Washington on 23-27 October 2017. With a focus on delivery and impact, [GEO Week 2017](#) will explore the use and applications of EO in both the public and private sectors for the benefit of humankind. Come and attend our presentations in the demonstration and side events and [find us](#) in the Exhibition Area of the European Commission booth! Find more details on the [GEO-CRADLE website](#).



**"GEO-CRADLE is the only EU GEO funded Coordination Support Action which runs over the diversified territories of North Africa, Middle East and Balkans"**

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GEO-CRADLE upcoming events:

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## **! GEO-CRADLE at GEO-XIV Plenary, 23-27/10/2017, Washington D.C., United States of America !**



GEO-CRADLE will participate in the [GEO-XIV Plenary](#) and present its latest activities and contribution to GEOSS and Copernicus.

On the one hand, GEO-CRADLE will give presentations in a number of demonstration and side events on Tuesday 24/10/2017: [GEO-CRADLE Project Coordinator](#) Dr. Haris Kontoes in [GEO in ACTION](#), GEO-CRADLE partner from [CEDARE](#) Prof. Hesham El-Askary in [AfriGEOSS: Strengthening partnerships with African Diaspora on Earth Observations](#), and GEO-CRADLE partner from [TAU](#) Prof. Eyal Ben-Dor in [Open geo data to achieve food security and sustainable agriculture for SDG 2030](#).

On the other hand, GEO-CRADLE will participate in the Exhibition at the European Commission booth.

Find more details on the [GEO-CRADLE website](#).

## **GEO-CRADLE Regional Workshop in North Africa, 07/12/2017, Tunis, Tunisia**



The next GEO-CRADLE Regional Workshop is jointly organized by the [Project Coordinator National Observatory of Athens \(NOA\)](#) and the [Project Partner Research and Studies Telecommunications Centre \(CERT\)](#).

You can register [here!](#)

More information will be available soon on the [GEO-CRADLE website](#).

GEO-CRADLE @:

**GEO-CRADLE Partner TAU in the ICARE-EUFAR,  
10-13/07/2017, Munich, Germany**



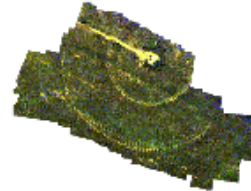
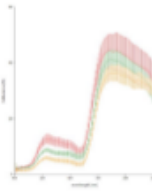
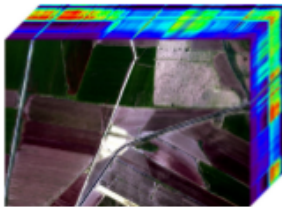
The 2nd International Conference on Airborne Research for the Environment (ICARE 2017) was held at DLR, the German Aerospace Research Center, in Oberpfaffenhofen near Munich, from 10 to 13 July 2017. GEO-CRADLE Partner TAU participated in the meeting and Prof. Eyal Ben Dor gave a presentation entitled "Spectral Imaging of Soils: past, present, and future".

[Read more...](#)

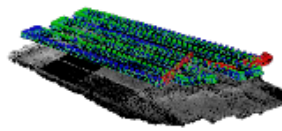
## GEO-CRADLE Partner TÜBİTAK UZAY in the 37th EARSel Symposium, 27-30/06/2017, Prague, Czech Republic



### Hyperspectral Imaging



### UAV Imaging



Ramazan KUPCU and Dr. Kaan KALKAN, from GEO-CRADLE Partner TUBITAK, participated in the 37th EARSel Symposium in Prague and presented the GEO-CRADLE activities related to the Improved Food Security and Water Extremes Management feasibility study of the project.

[Read more...](#)

OUTCOMES:

## GEO-CRADLE Regional Workshop in the Middle East, 14/09/2017, Tel Aviv, Israel



This GEO-CRADLE Regional Workshop in the Middle East was jointly organized by the Project Coordinator [National Observatory of Athens \(NOA\)](#) and the Project Partner [Tel Aviv University \(TAU\)](#) and took place on September 14 in Tel Aviv, Israel. You can see the presentations and photos on the [GEO-CRADLE website](#).

[Read more...](#)

## Minutes of the GEO-CRADLE Regional Workshop in the Balkans, 09/05/2017, Magurele, Romania



This GEO-CRADLE Regional Workshop in the Balkans was jointly organized by the Project Coordinator [National Observatory of Athens \(NOA\)](#) and the Project Partner [National Institute of R&D for Optoelectronics \(INOE\)](#) and it took place on May 9th 2017, at the National Institute of Research and Development for Earth's Physics (NIRDEP) in Magurele, Romania.

The [minutes](#) of the workshop are available on the [GEO-CRADLE website](#).

[Read more...](#)

## Minutes of the GEO-CRADLE Regional Workshop in the Balkans, 24/03/2017, Sofia, Bulgaria



This GEO-CRADLE Regional Workshop in the Balkans was jointly organized by the Project Coordinator [National Observatory of Athens \(NOA\)](#) and the Project Partner [Space Research and Technology Institute \(SRTI\)](#) and took place on March 24th 2017, in Sofia, Bulgaria.

The [minutes](#) of the workshop are available on the [GEO-CRADLE website](#).

[Read more...](#)

## OUTREACH:

### GEO-CRADLE Partners i-Bec and TAU Webinars, 14/06/2017



Two webinars took place in June and were conducted by GEO-CRADLE partners i-

BEC and TAU. The webinars informed the GEO-CRADLE partners who are involved in the implementation of the Pilot on Improvement of Food Security – Water Extremes Management regarding the technical requirements of the Pilot.

### Downloads

Webinar 1: Soil, Spectroscopy, and Soil Spectral Library

[GEO-CRADLE Webinar 1.1](#)

[GEO-CRADLE Webinar 1.2](#)

Webinar 2: A Brief Introduction to Machine Learning

[GEO-CRADLE Soil Spectral Library and Machine Learning Algorithms](#)

[GEO-CRADLE Webinar 2.1](#)

[GEO-CRADLE Webinar 2.2](#)

## GEO-CRADLE Partner i-BEC Training Day, 01/06/2017, Thessaloniki, Greece



GEO-CRADLE partner i-BEC organised a training day on Soil Spectroscopy on June 1st in Thessaloniki. The main topics of the training programme were:

1. Soil importance and basic definitions;
2. Principles of spectroscopy;
3. Soil spectroscopy, state of the art;
4. Building a regional SSL;
5. SSL initiatives.

## Airborne research stories for PRE-TECT!

## AIRBORNE RESEARCH CAMPAIGNS

### PRE-TECT: studying desert dust aerosols with airborne and ground-based measurements

Finokalia, Crete, 01 - 30 April 2017

PRE-TECT is an atmospheric experiment organized by the National Observatory of Athens (NOA). The experiment took place from 1<sup>st</sup> to 30<sup>th</sup> of April 2017 at the Greek atmospheric observatory of Finokalia in Crete, aiming to advance desert dust microphysical characterization from advanced ground-based remote sensing, employing sophisticated inversion techniques capable of retrieving the aerosol absorption. This is the main objective of the ACTRIS JRA1 activity "Improving the accuracy of aerosol light absorption determinations". In order to validate the ground-based remote sensing retrievals, airborne in-situ measurements are of paramount importance. EUFAR has awarded two Transnational Access projects (DoGMA, CIIMA) that helped fulfilling the ACTRIS scientific objectives. This was a great example of collaboration between the two Research Infrastructures, aiming to advance our knowledge on aerosol microphysics and their impact on radiation and cloud formation. The flights were performed by the research aircraft FA20 of the German Aerospace Center (DLR), in synergy with the A-LIFE ERC project (University of Vienna). The FA20 performed 8 EUFAR flights which were coordinated with the ground-based measurements in Finokalia. The research aircraft was equipped with an extended in-situ aerosol payload, a wind

question how rain patterns will develop in future and what the effect of climate change on arid regions might be.

5- The GEO-CRADLE project, aiming to coordinate and integrate state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans in order to develop links with GEO related initiatives towards GEOSS. Two thematic pilots of GEO-CRADLE and their services have been evaluated using the PRE-TECT dataset, the dust forecast service of the ACC pilot (Adaptation to Climate Change) and the SENSE energy system for the determination of solar energy field in the Eastern Mediterranean.



The PRE-TECT team

Contact: Amiridis Vassilis - NOA - [vamoir@noa.gr](mailto:vamoir@noa.gr)

In the framework of the GEO-CRADLE pilots, NOA along with the network partners organized the PRE-TECT experimental campaign, aiming to advance the Adaptation to Climate Change (ACC) and Solar Energy (SENSE) pilots. The PRE-TECT campaign was presented in the latest EUFAR Newsletter, the European Facility For Airborne Research.



**! Give visibility to your data  
and  
to your company / organisation !**

The screenshot displays the GEO-CRADLE Networking Platform interface. At the top, there are navigation links for 'HOME', 'PROFILES', and 'USER MANUAL'. Below this is a search bar with fields for 'Country', 'Organization Name', and 'Thematic Area'. A map of the Mediterranean region is shown with several data points marked. Below the map is a search bar with the text 'Search by keywords, e.g. word1, word2' and a search icon. Below the search bar is a note: 'If you wish to use more filters for your search, please visit the [Advanced search Page](#)'. At the bottom, there are three numbered steps: 1. GO TO SEARCH PAGE, 2. CHOOSE YOUR FILTERS, 3. GET YOUR SEARCH RESULTS.

**Register to the GEO-CRADLE Networking Platform!**

# Geocradle

Home Groups Geocradle Stakeholder Database Datasets Log in Register

Adaptation Range

About

Improved Food Security & Water Extremes Management

Trial mode

RDI beta mode

Access to Raw Materials

The Regional Data Hub (RDH) will soon provide access to both region-related datasets, portals and services developed by a regional network of raw data providers, intermediate users/service providers, end-users from Industry, Academic and Public Sector from the Region of Interest, and, also, datasets and services directly fed from the GEOSS-portal. Moreover, being the centralised gateway for regional data providers to contribute easily and timely their products to GEOSS, the Regional Data Hub is designed to become the focal node in the region in the context of GEOSS and Copernicus implementation. The RDH will facilitate access to downloadable files of Space-borne data from real-time

**Contribute to the GEO-CRADLE Regional Data Hub!**

## GEO & COPERNICUS News:



- Joint Communication for a renewed impetus of the Africa EU Partnership
- Development Seed to host GEO Week icebreaker, 22 October 2017, Washington DC, US
- EuroGeographics Webinar, 28 November 2017, 11:00-12:00 (CET)
- Join the European Space Week, 3-9 November 2017 Tallinn, Estonia



- Copernicus4Energy, 12 October 2017, Brussels, Belgium
- AD DAYS 18-20 November 2017, Taguspark, Oeiras, Portugal



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