



## Newsletter No. III November 2014

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### Editorial by the Project Coordinator Dr Haris KONTOES, Remote Sensing PhD, Research Director of NOA



We feel like it has been a success in BEYOND because our work makes people’s lives a little better, and more safe, and as such it was recognised in the Copernicus Masters Awards Competition of this year, where the FIREHUB tool won the Best Challenge Service prize of 2014. The FIREHUB service provides unique real time information about the status of the active fires and the spread of fires and fire plumes over the ground.

And there is where satellite and IT technologies comes to be of great help. The unique feature of the FIREHUB service is the full exploitation of the very high temporal resolution of the METEOSAT satellites acquiring images every 5 minutes from the entire globe. Through complex modelling, FIREHUB engine combines the satellite observations with additional evidences of fire occurrence, weather forecasts, fuel, and landscape data, in order to derive and disseminate on a 5 minute basis reliable pictures of the active fires with an enhanced spatial resolution of up to 500 meters on the ground, that is 50 times better than the spatial resolution of the raw satellite observations (note that the MSG SEVIRI sensor resolution is ~3.5km over the SE Europe). Along with the fire evolution, FIREHUB provides hourly forecasts of the 3-dimensional smoke field with organic carbon concentration spreads in the atmosphere. Finally relying on any available satellite data of high or very high spatial resolution, including the future Sentinel-2 data, the FIREHUB tool is designed to deliver daily, weekly, and seasonal burned area maps by invoking a fully automatic production chain. For more information visit: <http://ocean.space.noa.gr/FireHub>

#### What is BEYOND?

Established in the framework of the FP7-REGPOT-2012-2013-1 Coordination and Support Actions - Theme Area “4.1 Unlocking and developing the research potential of research entities established in the EU’s Convergence regions and Outermost regions”, the **BEYOND** project (EC GA No 316210) aims at maintaining and expanding the existing state-of-the-art interdisciplinary research potential, by **Building a Centre of Excellence for Earth Observation based monitoring of Natural Disasters** in South-Eastern Europe.

BEYOND foresees to increase its access range to the wider Mediterranean region through the integrated cooperation with twinning organizations in Europe and USA.

**BEYOND** Center of Excellence is hosted at the National Observatory of Athens (NOA) - Institute of Astronomy, Astrophysics, Space Applications and Remote Sensing (IAASARS). The operations of BEYOND officially started in June 2013, and will last for the next three years. The approved EC budget contribution for BEYOND is 2.305.650 Euros.



## Copernicus Masters 2014 Award



### Fire Hub: A Space based Fire Management Hub - Winner of the Best Service Challenge of the Copernicus Masters Awards 2014



The FireHub Winning Team (Photos: © Jan Kobel)



The National Observatory of Athens participated in the Best Service Challenge of the Copernicus-masters competition with the operational EO based fire management service, which was developed in the framework of the **BEYOND project**. The submitted service is entitled "**FireHub: A Space Based Fire Management Hub**", and has been elected as the winner of the Best Service Challenge of the Copernicus Masters 2014 by an experts committee. The Copernicus-masters competition organised by [Anwendungszentrum GmbH Oberpfaffenhofen](http://www.anwendungszentrum.de), aiming to support the development of market-oriented applications that use data from the European Union's Copernicus programme (previously known as Global Monitoring of Environment and Security, or GMES). "**FireHub**" is a service platform that consolidates a real-time fire detection and monitoring application, a large scale Burnt Scar Mapping during and after wildfires, and a fire smoke dispersion forecasting tool, based on the integration of space technologies with geospatial information and meteorological data.

The service has been qualified in the framework of several EC, Copernicus/GMES & ESA projects, relying on fully scalable and transparent automatic processes allowing the transferability of the applications to other climatic and geographic zones in Europe.

The FIREHUB platform addresses real decision-

makers' needs and has been deployed on an operational basis to several user stakeholders, including the Fire Disaster Management Centers of Fire Brigades, the Ministry of Environment Energy and Climate Change, the Forestry Services, the Hellenic Telecom Organization, and various Local and Regional civil protection authorities over Greece. The User base has been rapidly expanded during the last summer with more than 500 independent connections to FIREHUB tool on a daily basis (institutional users and public).

"**FireHub**" is also integrated into the Global Fire Monitoring Center that belongs to the International Strategy of UN for Disaster Reduction.

For more information visit the related website:

<http://ocean.space.noa.gr/FireHub>

[Read More...](#)

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## Participation of BEYOND in the EU Presidency events

### 2<sup>nd</sup> South-Eastern Europe GEO Workshop

Integrating Earth Observation Data and Services for Monitoring the Environment, Protecting the Citizens and Stimulating the Regional Economic Growth  
Athens, 20-21 October 2014



BEYOND successfully organized the 2<sup>nd</sup> South-Eastern European GEO Workshop on “Integrating Earth Observation Data and Services for monitoring the Environment, protecting the citizens and stimulating the regional economic growth” focused on North Africa, Middle East and Balkan Region, a two-day workshop that took place in Athens, Greece, on 20<sup>th</sup> and 21<sup>st</sup> October 2014.



The purpose of this workshop was to identify, evaluate and report the existing GEO-GEOSS capacities in the region. It allowed assessing the compatibility and adequacy of the on-going initiatives at the European Union level, as well as networking initiatives at regional level over the three regions, towards the development of an integrated, space based and in-situ, observational and service capacity, for the benefit of critical societal sectors, local economies, continuity of businesses, and the protection of citizens and ecosystems from natural and human induced disasters.



All Participants of the 2nd SE EU GEO-Workshop

### 8th GEO European Project Workshop - SPACE AND SECURITY CONFERENCE

BEYOND participated in the 8th GEO European Project Workshop, on 12&13 June 2014, and the SPACE & SECURITY CONFERENCE on 19&20 June 2014. The Space and Security Conference was co-organised by the General Secretariat for Research and Technology, the National Observatory, the University of Athens, the Greek Ministry of Defense and the European Commission under the auspices of the Hellenic Presidency of the EU.

#### Oral Presentations and Publications Material



- The BEYOND project: Building a Center of Excellence for EO based Monitoring of Natural Disasters - **Haris Kontoes (NOA)**, [[Presentation](#)]
- Monitoring geophysical activity from Space, in the framework of BEYOND Center of Excellence - **Ioannis Papoutsis (NOA)**, [[Presentation](#)]
- Integration of Atmospheric Observing Platforms under the umbrella of a National Research Infrastructure - **Evangelos Gerasopoulos (NOA)**, [[Presentation](#)]
- Current status of the NOANET GNSS network (infrastructure, services, science, vision) - **Athanasios Ganas (NOA)**, [[Presentation](#)]
- **Splinter Session: How Copernicus and its Downstream Projects can contribute to the GEOSS**  
Rapporteur: Vassilis Amoiridis, [[Presentation](#)]



National Observatory of Athens, Thission, 12 June 2014



- The BEYOND project: Building a Center of Excellence for EO based Monitoring of Natural Disasters - **Haris Kontoes (NOA)**, [[Presentation](#)]
- “Use of GNSS for Earthquake assessment and monitoring”, **Dr. Athanasios Ganas, National Observatory of Athens**, [[Presentation](#)]

## CHARADMExp Campaign 2014, 20.06. - 10-07.2014

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

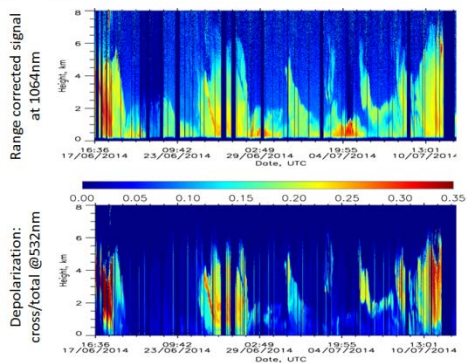
In the framework of BEYOND, NOA organized the [CHARADMExp](#) campaign which took place between 20<sup>th</sup> of June and 10<sup>th</sup> of July at [Finokalia Station](#) in Crete, a core [ACTRIS](#) station. The campaign has been funded by the European Space Agency (ESA) and the aim was to derive optical, microphysical and chemical properties of marine aerosol component and its mixture with dust. For that purpose, sophisticated instrumentation was installed on the site for aerosol characterization by ground-based active/passive remote sensing techniques, surface in-situ measurements and airborne observations employing Unmanned Aerial Vehicles (UAVs).

A number of Research Institutes participated in the campaign setting up their instruments on the site, including the [University of Crete](#), the [Leibniz Institute for Tropospheric Research](#), the [Cyprus Institute](#), the [Finish Meteorological Institute](#), the [Universite Lille](#) and the [Davos Physical Meteorological Observatory](#) of the [World Radiation Center](#). On daily basis the campaign has been supported by several modelling services operating at the BEYOND Center of excellence (<http://beyond-eocenter.eu/>) of NOA and partners such as [Barcelona Supercomputing Center](#) and the UK [Met Office](#).

The instrumentation mobilized for the campaign and added to the existing [in-situ instrumentation](#) of Finokalia station consisted of 3 lidars ([PollyXT](#), [EMORAL](#), [HALO](#)), a [Microwave Radiometer](#), 3 [sun-photometers](#) ([CIMEL](#), [PSR](#), [Microtops II](#)), a [UV-MFR radiometer](#), and a [CCN instrument](#).

The model simulations and related forecasts that were utilised to consolidate the measurement strategy were the Real-time fire monitoring system based on MSG/SEVIRI (NOA) ([http://ocean.space.noa.gr/seviri/fend\\_new/index.php](http://ocean.space.noa.gr/seviri/fend_new/index.php)), the Smoke dispersion forecasts (NOA), the Prognostic back-trajectories (NOA), the Meteorological and dust forecasts (BSC, NOA) and the real-time dust AOD retrievals from MSG-SEVIRI (UKMO).

During the campaign, 3 dust episodes were monitored for which the BEYOND atmospheric group already started its investigations.



The data time-series acquired from Polly-XT lidar. Instruments



The 3 lidars (mobile EMORAL (blue van) POLLY-XT (container) and HALO wind lidar (right))



CIMEL and UV-MFR sun-photometers (left) and PSR radiometer (right)



Sitia's Substation: UAV team and EMORAL lidar



# BEYOND

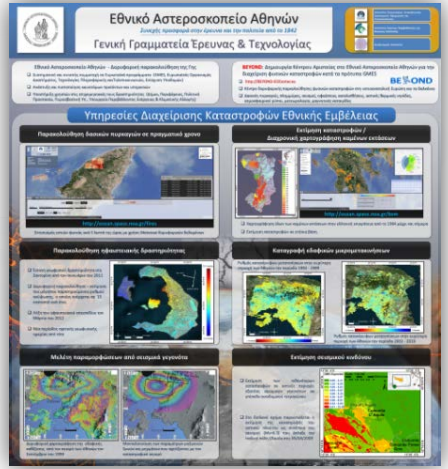
Building a Centre of Excellence for EO-based monitoring of Natural Disasters



## Participation of BEYOND in Special Events

### Researchers' Night 2014

NOA participated in the "Researchers' Night 2014" mega event, on September 26, 2014, at Democritus NCSR, Athens, Greece. The Researcher's Night, is the largest pan-European celebration of science and research, with the participation of academic/research centers from 300 cities in Europe. The presentation of NOA focused on BEYOND efforts and services to setup innovative observational solutions (in-situ and space based), in order to build a Center of Excellence for Earth Observation-based monitoring of Natural Disasters (<http://beyond-eocenter.eu/>). [Link](#)



### Press - Interviews – BEYOND Multimedia Gallery



[Interview at Tech Talks Central](#)



[FireHub - A Space based Fire Management Hub](#)



[Urban Thermal Environment](#)

### 79th Thessaloniki International Fair

NOA participated in the 79th HELEXPO - Thessaloniki International Fair from 7 to 14 of September 2014. NOA's presentation focused on the services delivered through the BEYOND Center of Excellence in the domain of fire disaster management. During the event, the efforts for setting up a multi hazard management approach based on Earth Observation solutions are highlighted to the open public.

[Read More](#)



[79th Thessaloniki Int Fair - NOA Presentation \(HD\)](#)



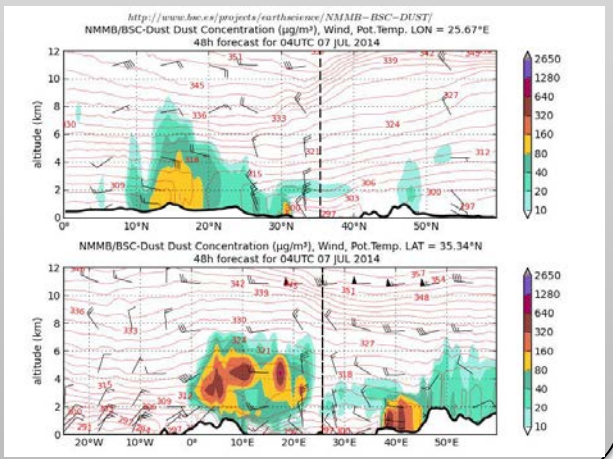
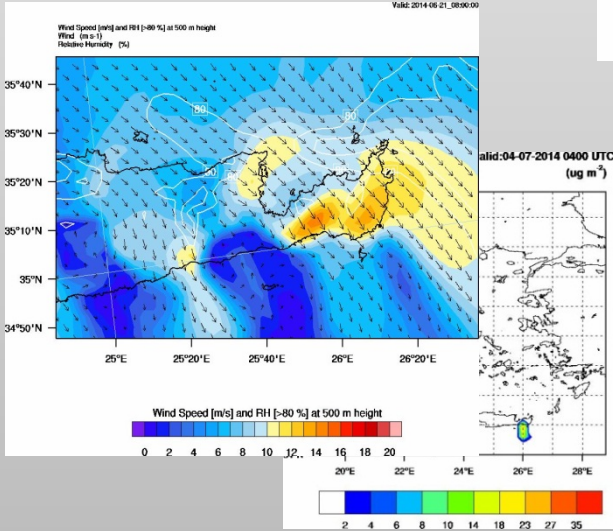
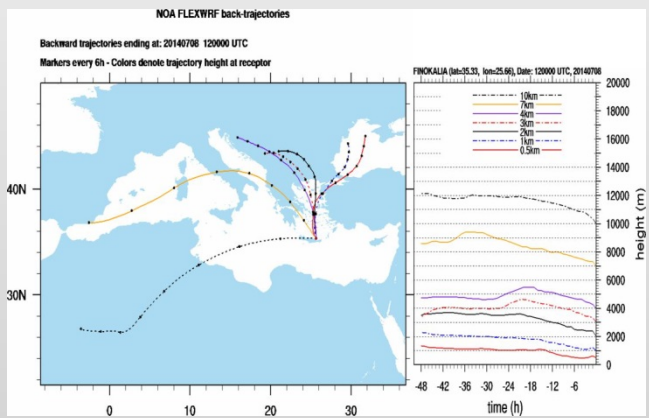
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# Updated list of EO Services available within BEYOND Project

## BEYOND Services provided for CHARADMexp

Contact Persons: [Vassilis Amiridis - vamoir@noa.gr](mailto:vamoir@noa.gr), [Stavros Solomos - ssolomos@noa.gr](mailto:ssolomos@noa.gr)



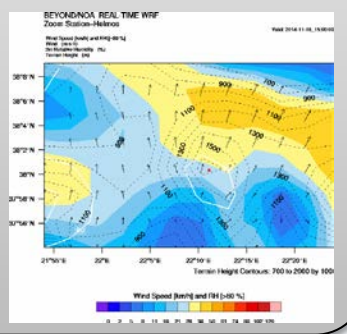
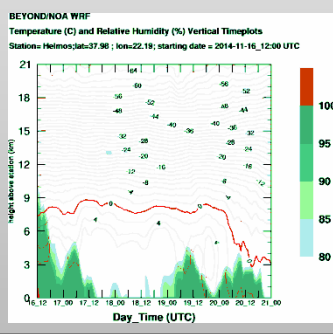
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## Helmos Weather Forecast Service -

<http://ocean.space.noa.gr/BEYONDsite/index.php/atmospheric/helmos-forecast>

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BEYOND provides specific weather information over the NOA's Aristarchos Telescope site at the Helmos mountain Observatory. This information is provided based on WRF\_ARW daily forecasts at a spatial horizontal resolution of 4x4 km, and with a forecasting horizon of 4 days. The forecasts refer to wind and humidity atmospheric fields, as they are considered as the most critical parameters for the operation of the telescope.



## BEYOND Public Outreach



### Public Media Articles - Interviews

- Livas brings aerosols and clouds under one roof, ESA, [April 17, 2014](#), [Link](#), [\[Press Article \(in Greek\)\]](#)
- Preparing to measure aerosols in Greece, ESA, [23 June 2014](#) ([Article](#))
- The journey of Saharan dust to Crete, enet.gr, Eleytherotypia Press, [July 03, 2014](#), [Link](#)
- Unmanned flights over Crete, ESA, [07 July 2014](#) ([Article](#))
- Modelling support for aerosol measurements in Greece, ESA, [11 July 2014](#) ([Article](#))
- Experiment on "Crete's heaven" - Researchers follow Saharan dust, Rethemnos News Online Magazine, [July 03, 2014](#), [Link \(in Greek\)](#), [\[Press Article \(in Greek\)\]](#), [\[Video\]](#), [\[Video \(Cyprus\)\]](#)
- National Observatory of Athens offers on-line fire monitoring, Hunter and Nature Online Magazine, [July 03, 2014](#), [Link](#)
- Real-time fire data provided by NOA, enet.gr, Eleytherotypia Press, [July 02, 2014](#), [Link \(in Greek\)](#)
- Real-time hot-spots detection, Crash Magazine Online, [July 2014](#), [Link \(in Greek\)](#)
- Real-time fire monitoring services by NOA, GSRT (General Secretariat for Research and Technology), [July 2014](#), [Link \(in Greek\)](#), [\[Press Article \(in Greek\)\]](#), [Link \(in English\)](#)
- Dr. Vassilis Amiridis, [Interview at Tech Talks Central – August 30, 2014](#), [Facebook Link](#), [TechTalksCentral Link](#), [TechTalksCentral\(Researcher's Night\) Link](#), [\[Interview \(Audio\)\]](#), [\[Interview \(Video\)\]](#)
- Participation of BEYOND at the [79th Thessaloniki International Fair, September 06-14, 2014](#), HELEXPO, Thessaloniki, [Link](#)
- Participation of BEYOND at the [Researcher's Night 2014 mega event, September 26, 2014](#), Democritos NCSR, Athens, Greece, [Link](#)
- COPERNICUS MASTERS AWARDS 2014: «Best Service Challenge» nomination: The FIREHUB tool, Awards Ceremony on 23 October 2014 in Berlin, [Link](#)**
- International distinction for the National Observatory of Athens on space technology, Telecast "eco News" on SKAI TV, [November 04, 2014](#), [\[Telecast Link\]](#), [\[Video\]](#)
- Interview (Live U)**, Star Channel, [November 04, 2014](#), [Link](#), [Video \(Interview Only\)](#)
- Copernicus Masters 2014, [Interview at 90.4, Kanali Ena - November 03, 2014](#), [Interview \(Audio\)](#)
- "Space" awards for Greece, tovima.gr, [November 02, 2014](#), [Link](#)
- Greek satellite applications, TO BHMA (tovima.gr), [November 02, 2014](#), [Link](#)
- Best award on space technology for the National Observatory of Athens, SKAI TV "the Good News of the Day" (skai.gr), [October 31, 2014](#), [\[Telecast Link\]](#), [\[Video\]](#)
- Four Greek distinctions at the European Satellite Navigation Competition 2014, SBC TV (sbctv.gr), [October 30, 2014](#), [Link](#), [Video](#)
- NOA's remote sensing research team won the prize of the «Best Service Challenge 2014», [October 30, 2014](#), [H Apopsi \(iapopsi.gr\)](#)
- International «Space» distinction for the National Observatory of Athens, [October 30, 2014](#), [Crash Online Magazine \(crashonline.gr\)](#), [dasarxeio.com](#), [7imeres.gr](#)
- International distinction for the National Observatory of Athens on space technology, [October 30, 2014](#), the FIREHUB Tool, [AlphaTV](#), [Enikos.gr](#), [Imerisia.gr](#), [Tilegrafos.gr](#), [Zougla.gr](#), [Matrix24.gr](#), [tanea.gr](#), [Radio Gamma \(radiogamma.gr\)](#), [iNewsgr.com](#), [NOOZ.gr](#), [NewsBomb \(newsbomb.gr\)](#), [My Way Press \(mywaypress.gr\)](#), [newslog.gr](#), [InsideNews.gr](#), [ANATOLH online \(anatolh.com\)](#), [e-Kriti \(ekriti.gr\)](#), [Hellas Online \(hol.gr\)](#), [exit News \(exitnews.gr\)](#), [Top7News \(top7news.gr\)](#), [TIPOS \(tipos.gr\)](#), [Proto Thema \(protothema.gr\)](#), [Eleftheria \(eleftheria.gr\)](#), [NewsBeast \(newsbeast.gr\)](#), [Kathimerini \(kathimerini.gr\)](#)
- International competition of satellite applications in Berlin: Important distinctions for 4 Greek researchers, SKAI TV "the Good News of the Day", [October 28, 2014](#), [\[Telecast Link\]](#), [\[Video\]](#)
- Quad distinction of Greece in the international competition of satellite applications, [October 24, 2014](#), [in.gr](#), [EMEA \(emea.gr\)](#)

## BEYOND Public Outreach



### Journals

- ❑ V. Amiridis, E. Marinou, A. Tsekeri, U. Wandinger, E. Giannakaki, R. Mamouri, T. Herekakis, P. Kokkalis, S. Kazadzis, E. Gerasopoulos, D. Balis, A. Papayannis, C. Kontoes, N. Papagiannopoulos, L. Mona, G. Pappalardo, A. Ansmann and O. Le Rille, **LIVAS: a 3D multi-wavelength aerosol/cloud global climatology based on CALIPSO and EARLINET**, submitted in Atmospheric Chemistry and Physics, 2014
- ❑ John Peter Merryman Boncori, Ioannis Papoutsis, Giuseppe Pezzo, Cristiano Tolomei, Simone Atzori, Athanassios Ganas, Vassilios Karastathis, Stefano Salvi, Charalampos Kontoes, A. Antonioli, **The February 2014 Cephalonia Earthquake (Greece): 3D Deformation Field and Source Modeling from Multiple SAR Techniques**, Seismological Research Letters, First published online on: **November 19, 2014**, doi: 10.1785/0220140126, [Link](#)



### Presentations - Conference Proceedings

- ❑ I. Papoutsis, C. Kontoes, A. Ganas, **BEYOND Center of Excellence for monitoring geophysical activity and geo-hazard mapping**, Oral Presentation, 2nd Tectonic Geodesy Workshop, Earthquake Planning and Protection Organization, Athens, Greece on **May 14, 2014**, [Workshop Link](#), [Presentation](#)
- ❑ Oral presentations and conference proceedings at 12th International Conference on Meteorology, Climatology and Atmospheric Physics **COMECAP 2014** Heraklion, Greece on **May 28-31, 2014**
  - Sofiou F., Solomos S., Amiridis V., Herekakis T., Argialas D., Kontoes H. "**Evaluation of FLEXPART smoke dispersion using MISR plume heights**", [Poster](#)
  - Amiridis V., Marinou E., Tsekeri A., Giannakaki E., Mamouri R.E., Kokkalis P., Kazadzis S., Gerasopoulos E., Herekakis T., Papayannis A., Balis D.S., **Lidar climatology of Vertical Aerosol Structure (LIVAS): a 3-dimensional global aerosol database**, [Link](#)
  - Kosmopoulos P.G., Kazadzis S., Flocas H.A., Marinou E., Amiridis V., Taylor M., Jacovidis C.P., **A 3D aerosol climatology in the atmosphere of Greece by remote sensing & radiative-transfer modeling techniques**, [Link](#)
  - Marinou E., Dandou A., Tombrou M., Amiridis V., **Comparison of mixing layer heights derived from CALIPSO and WRF model simulations**, [Link](#)
  - Papayannis A., Tsaknakis G., Amiridis V., Nicolae D., Kokkalis P., Talianu C., Belegante L., **Study of the long-range transport mechanisms affecting air quality over Athens and Bucharest using synergy of remote and in situ sensors: the case of July 2012**, [Link](#)
  - Taylor M., Kazadzis S., Tsekeri A., Gkikas A., Amiridis V., **AEROMAP: Satellite retrieval of dust aerosol microphysical and optical parameters using neural networks**, [Link](#)
  - Tsaknakis G., Papayannis A., Amiridis V., Nicolae D., Kokkalis P., Talianu C., Belegante L., **16-month air mass cluster analysis over Greece and Romania: application in air quality assessment linked to transport processes**, [Link](#)
  - Tsekeri A., Amiridis V., Marengo F., Marinou E., **Validation of CALIPSO classification scheme using airborne in-situ data**, [Link](#)
- ❑ Vassilis Amiridis, Ulla Wandinger, Eleni Marinou, Alexandra Tsekeri, Sara Basart, Stelios Kazadzis, Jose M. Baldasano, Albert Ansmann, Stavros Solomos, Haris Kontoes "**Dust model validation using CALIPSO**", INTERNATIONAL CONFERENCE ON ATMOSPHERIC DUST, Castellaneta Marina, Italy - **June 1-6, 2014**, [Presentation](#)



## BEYOND Public Outreach



### Presentations - Conference Proceedings

- ❑ Keramitsoglou I., Kiranoudis C.T. and Sismanidis P.. 2014. "**Space-derived real-time monitoring of the thermal environment of Mediterranean cities**", Oral presentation and Poster, Mediterranean City international conference (MedCity 2014), in Athens, Greece on **June 10-11, 2014**
- ❑ Keramitsoglou I., Kiranoudis C.T. and Sismanidis P.. 2014. "**Towards real-time quarter-hour monitoring of the urban thermal environment at sharpened spatial resolution**", Oral Presentation and Proceedings, 3rd International Workshop on Earth Observation and Remote Sensing applications (EORSA 2014), in Changsha, China on **June 11-14, 2014**, [[Presentation](#)]
- ❑ Oral Presentations at the 8th GEO European Projects Workshop (GEPW-8), in Athens, Greece on **June 12-13, 2014**
  - Ganas A. 2014. "**Current status of the NOANET GNSS network 2006-2014**", [[Presentation](#)]
  - E. Gerasopoulos, 2014. "**Integration of atmospheric observing platforms under the umbrella of a national research infrastructure**", [[Presentation](#)]
  - I. Papoutsis, 2014. "**Monitoring geophysical activity from Space, in the framework of BEYOND Center of Excellence**", [[Presentation](#)]
  - Keramitsoglou I., Kiranoudis C.T. and Sismanidis P.. 2014. "**New service for quarter-hour monitoring of urban temperatures from space**, Oral presentation and Poster, [[Poster](#)], [[Bookmark - Front](#)], [[Bookmark - Back](#)]
  - Kontoes C. 2014. "**The European Centre of Excellence BEYOND for Earth Observation based monitoring of Natural Disasters in South-Eastern Europe**", [[Presentation](#)]
- ❑ Oral presentations at the 1st international geomatics applications conference (GEOMAPPLICA), in Skiathos Island, Greece on **September 08-11, 2014**
  - V. Amiridis, S. Solomos, A. Tsekeri, E. Mariou, S. Kazadzis, E. Gerasopoulos, T. Herekakis, C. Kontoes "**Atmospheric hazards monitoring and forecasting**", [[Presentation](#)]
  - C. Kontoes, V. Amiridis, I. Keramitsoglou, I. Papoutsis, A. Tsouni, G. Balasis and E. Christia "**BEYOND Center of Excellence for EO-based monitoring of Natural Disasters**"
  - A. Tsouni, C. Kontoes, E. Ieronymidi, A. Koukouvinos and D. Koutsoyiannis "**BEYOND Center of Excellence: Flood mapping and modeling**", [[Presentation](#)]
  - I. Papoutsis, C. Kontoes, A. Ganas, V. Karastathis, S. Solomos and V. Amiridis "**BEYOND Center of Excellence: Geophysical activity 'seen' from space**", [[Presentation](#)]
  - Keramitsoglou I., Kiranoudis C.T. and Sismanidis P.. 2014. "**Developing a EO-based service for real-time monitoring of urban temperatures**", [[Presentation](#)]
- ❑ E. Flaounas, V. Kotroni, K. Lagouvardos, A. Gkikas, S. Kazadzis 2014. "**Dust transfer through Mediterranean cyclones: relative contribution to aerosol climatology**". Oral Presentation at the HyMeX, in Malta on **September 2014**, [[Presentation](#)]
- ❑ Amiridis, V., U. Wandinger, E. Marinou, A. Tsekeri, **LIVAS: a 3D multi-wavelength aerosol climatology**, ESA/JAXA EarthCARE Workshop 2014, Tokyo, **September 17-19, 2014**, [[Presentation](#)]
- ❑ Keramitsoglou I., Kiranoudis C.T. and Sismanidis P.. 2014. "**Real-time quarter-hour monitoring of urban heat islands**", Oral presentation and Proceedings, 3rd International Conference on countermeasures to urban heat islands, in Venice, Italy on **October 13-15, 2014**
- ❑ Aggeliki Barberopoulou and Finn Scheele, **Towards developing a hazard assesment methodology of historical tsunami events**, International Workshop «Mega Earthquakes and Tsunamis in Subduction Zones—Forecasting Approaches and Implications for Hazard Assessment», Rhodes, Greece on **October 06-08, 2014**, [[METSZ 2014 Site](#)]
- ❑ A. Barberopoulou and A. J. Curtis, **Video data collection after natural disasters**, SafeRhodes Conference, Rhodes, Greece on **October 24-26, 2014**, [[SafeRhodes 2014 Site](#)]

## BEYOND Public Outreach



### Press Releases – NOA Announcements

- Real time fire monitoring service, Press Release, [6 August 2013](#), [GR](#)
- Real time fire monitoring service and diachronic mapping of burned areas in Greece, Press Release, [27 June 2014](#), [GR](#)
- "FireHub" - winner of the Best Service Challenge of the Copernicus Masters 2014, Press Release, [23 October 2014](#), [EN](#)
- "FireHub" - winner of the Best Service Challenge of the Copernicus Masters 2014, Press Release, [29 October 2014](#), [GR](#)

BEYOND



National Observatory of Athens



Institute for Astronomy, Astrophysics,  
Space Applications & Remote Sensing



FP7-Regpot-2012-23-1



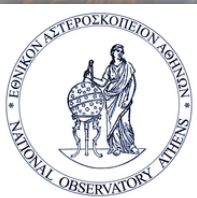
**BEYOND**

Building a Centre of Excellence  
for EO-based monitoring of Natural Disasters

**Newsletter**

# BE OND e-Newsletter

**BEYOND** aims to maintain and expand the existing state-of-the-art interdisciplinary research potential, by Building a Centre of Excellence for Earth Observation based monitoring of Natural Disasters in south-eastern Europe, with a prospect to increase its access range to the wider Mediterranean region through the integrated cooperation with twinning organizations .



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### ACTIVITY: 4.1

Unlocking and developing the research potential of research entities established in the EU's Convergence regions and Outermost regions.

### CALL IDENTIFIER:

Integration of research entities from the EU's Convergence and Outermost regions in the ERA and enhancement of their innovation potential.

**Project GA number: 316210**  
**Total Budget: 2305650 €**  
**Duration: 3 years (2013-2016)**  
**EU Project Officer: Ms Ralitsa Atanasova**  
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