





FireHub: A Space based Fire Management Hub

Haris KONTOES, Research Director
Themistocles HEREKAKIS
Emmanouela IERONYMIDI
Ioannis PAPOUTSIS
Stavros SOLOMOS

NATIONAL OBSERVATORY OF ATHENS
INSTITUTE OF ASTRONOMY & ASTROPHYSICS,
SPACE APPLICATIONS AND REMOTE SENSING











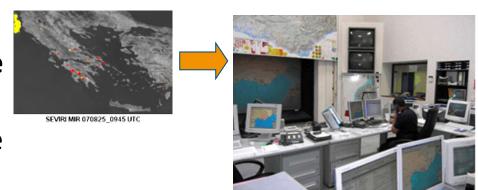


BEYOND participated in the

Best Service Challenge

Copernicus-Masters competition

with the operational EO based fire management service, known as:



"FireHub: A Space Based Fire Management Hub "

The service consists of three pillars:

- 1. The real-time fire detection and monitoring application
- 2. The large scale Burnt Scar Mapping during and after wildfires and the Diachronic BSM
- 3. The fire smoke dispersion forecasting tool















"FireHub: A
Space Based
Fire
Management
Hub "

















"FireHub: A
Space Based
Fire
Management
Hub "

















"FireHub: A
Space Based
Fire
Management
Hub "









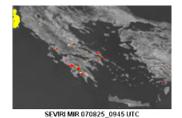






Institutional End Users and stakeholders in Greece and Europe receive the fire disaster services:









- The European Copernicus Program (EMS service)
- The Fire Brigades Control Room (199)
- The Ministry of Env. (Directorate for Forests Protection)
- The Gen. Sec. Civil Protection
 - The Forestry Services over Greece and Europe
 - The National Cadastral Organisation
- The Local Authorities & Environmental Organisations
- The Greek Army

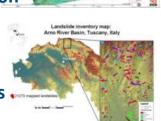
8

8

The Private sector











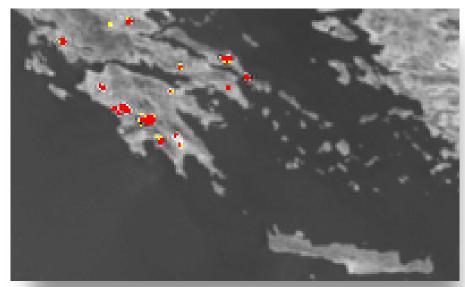


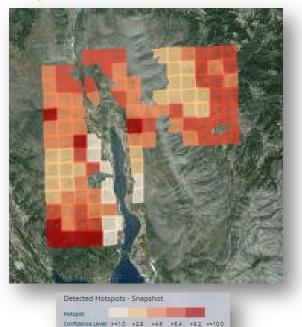






Regional Real Time Fire Monitoring Service based on EUMETSAT MSG SEVIRI Data Monitoring





Raw resolution: 3.5x3.5 km wide pixel over entire

Refined resolution: 0.5x0.5 km wide pixel over entire Greece



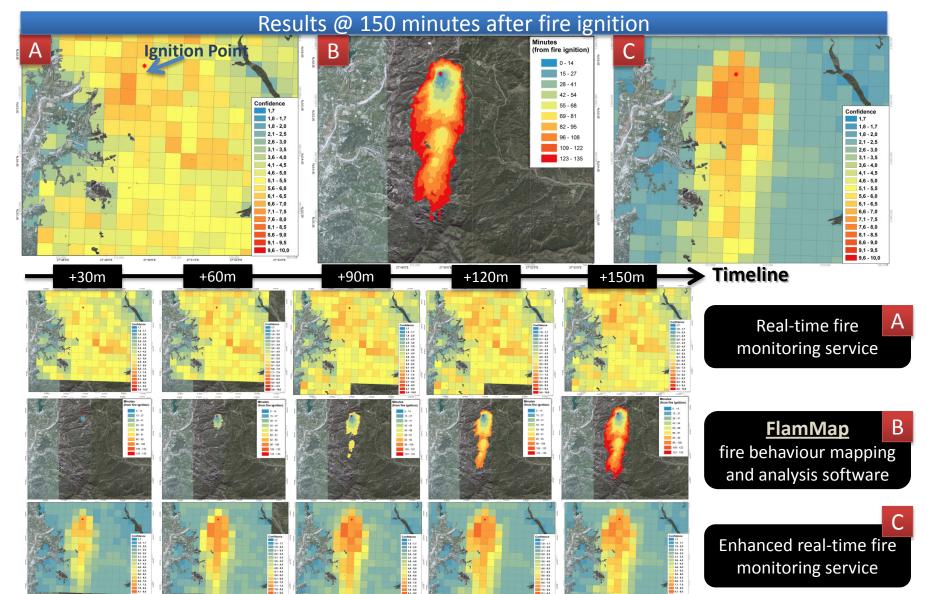






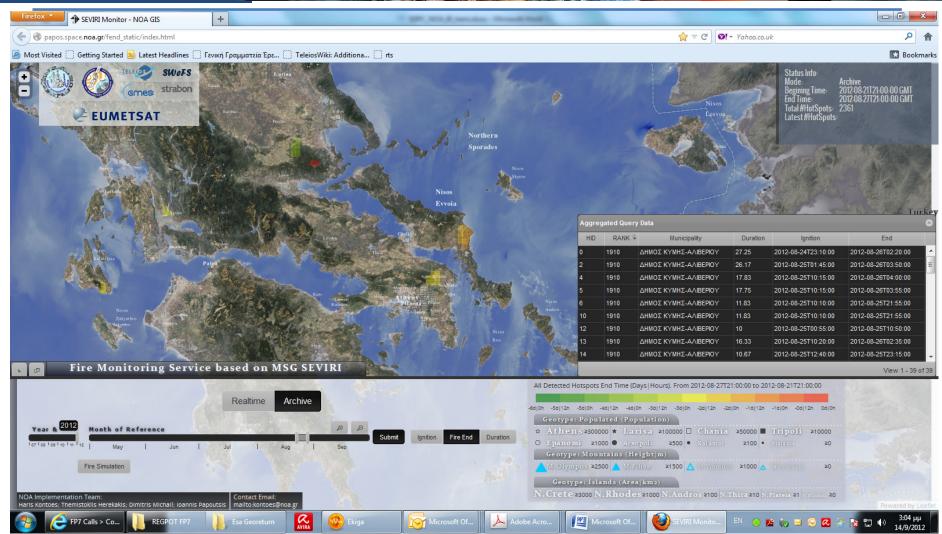










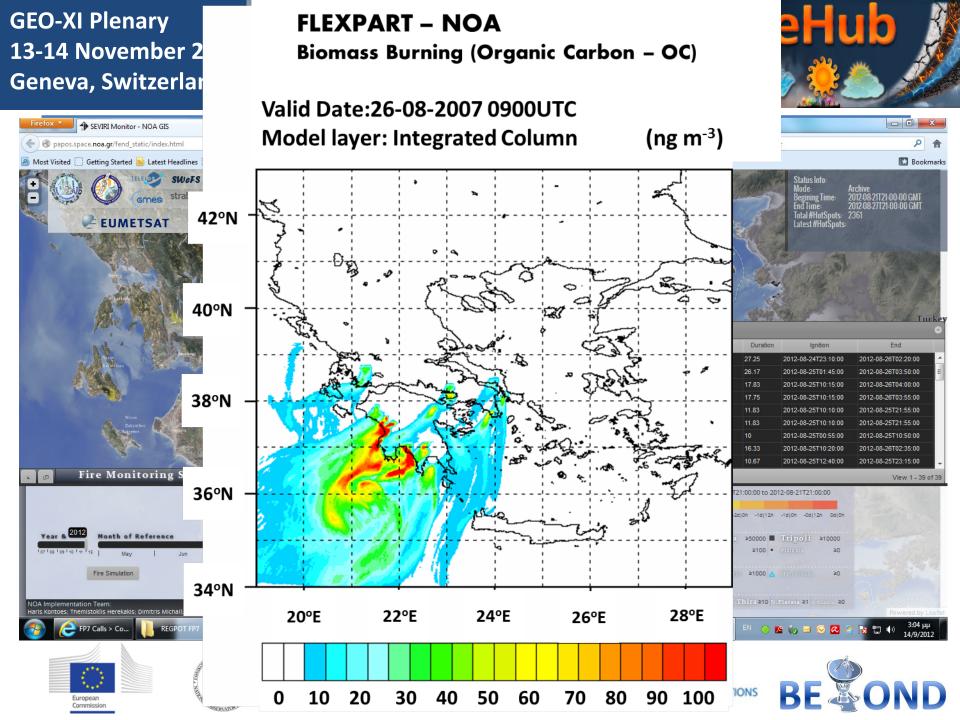






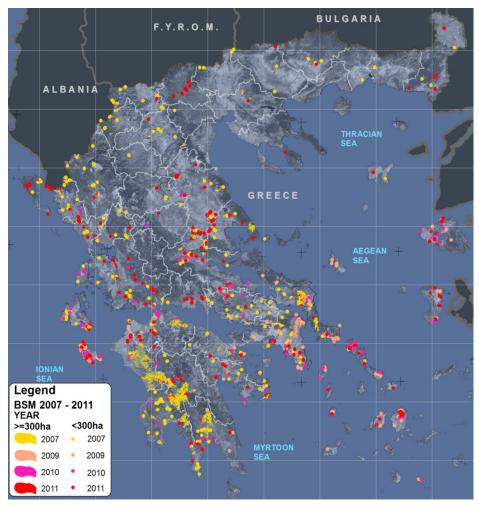


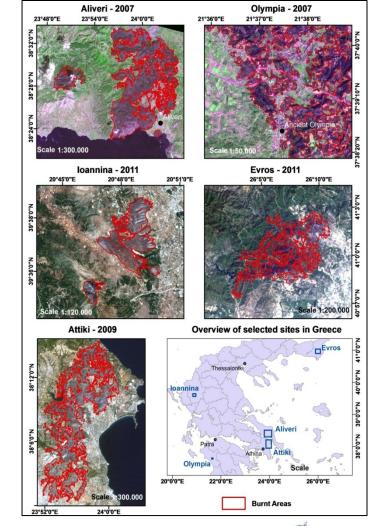
















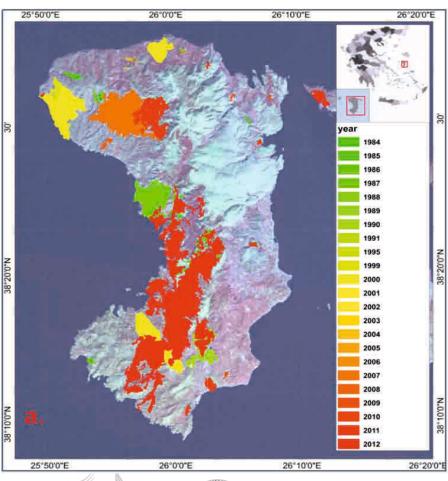




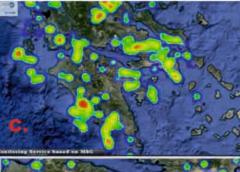




http://ocean.space.noa.gr/diachronic bsm/index.php









- 1) More than 450 Landsat TM images acquired over Greece in the period 1984-2013 residing on USGS archives were downloaded and processed fully automatically using the NOA processing chain.
- 2) Yearly maps of Burned Areas have been produced
- 3) Yearly statistics per land cover type and administrative data have been generated
- 4)On-line dissemination of the produced maps and statistics through the NOA's dedicated web interface













FireHub

A Space based Fire Management Hub



























Thank you for your attention!

For more information

ocean.space.noa.gr/FireHub







