



Εικόνα 1: acquired August 22, 2009

Γεγονός: Flames raced through the forests northeast of Athens, Greece, on August 22, 2009, when the Moderate Resolution Imaging Spectroradiometer (MODIS) on NASA's Aqua satellite captured this image. Areas where the sensor detected fire on the ground are outlined in red.

The fire outside Athens started on Friday, August 21, north of the famed Marathon plain. Aided by strong winds, the fire quickly grew, reaching the edge of Athens, said the Associated Press. The wind also blew thick plumes of smoke from the fire over the city. The smoke plume extends more than a hundred

kilometers over the Aegean Sea in this image (https://earthobservatory.nasa.gov/IOTD/view.php?id=39913&eocn=image&eoci=related_image).

In August 2009, wild fires ravaged the north-eastern fringes of Athens, destroying great part of the capital's forests. The fire was ignited on August 21, about 40 km NE of Athens, and quickly intensified due to the prevailing strong North-eastern winds, that spread the major front of the flames toward Mount Penteli, during the following four days. The BSM_NOA methodology revealed a total burnt area of 13,045 ha. From that, 5786 ha were transitional woodland shrub. The rest were coniferous trees (470 ha), natural grassland (261 ha) and other land cover classes including urban and agricultural land (2468 ha). The large fires occurred in the wildland/urban interfaces (urban areas are represented in gray color). (<http://www.sciencedirect.com/science/article/pii/S1352231011008004?via%3Dihub>)

Θέση πηγής: **38°11'32.79" N 23°54'14.32" E**

1. Υπολογίστε την εξέλιξη της διασποράς του θυσάνου κατά την ημέρα της φωτιάς
2. Υπολογίστε την οπισθοτροχιά των αέριων μαζών που βρίσκονται στην Βουλιαγμένη (37° 48' 27" N, 23° 46' 51" E) την επόμενη ημέρα.

Χρήσιμα links (NOAA/ARL READY)

<https://ready.arl.noaa.gov/index.php>

<https://ready.arl.noaa.gov/HYSPLIT.php>

<https://ready.arl.noaa.gov/hypub-bin/dispasrc.pl>

<https://ready.arl.noaa.gov/hypub-bin/trajtype.pl?runtime=archive>