Εικόνα 1: acquired November 28, 2010

Γεγονός: Dust blew off the coasts of Tunisia and Libya in late November 2010, creating camel-colored plumes over the Mediterranean Sea. The Moderate Resolution Imaging Spectroradiometer (MODIS) on NASA's Aqua satellite captured this natural-color image on November 28, 2010. Sand seas cover much of Algeria, Tunisia, and Libya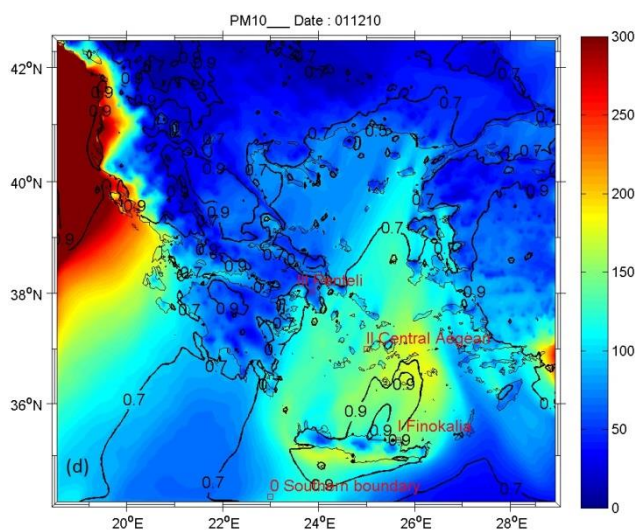, and some of those sand seas stretch all the way to the coast. The plumes blowing toward the northeast appear to have arisen from sediments near the shoreline. Although dust partially obscures the coastline along the Tunisia-Libya border, skies over Tripoli (also known as Tarabulus) are clear.

Dust continued blowing off the coast of Tunisia in early December 2010. On December 1, a thick plume of dust stretched across the Mediterranean Sea, from Tunisia past Sicily. The Moderate Resolution Imaging Spectroradiometer (MODIS) on NASA's Terra satellite took this picture the same day.

Εικόνα 2: Spatial distribution of the daily average total PM10 concentrations (model outputs, in µg m-3) over the EM on 01/12/2010.Isopleths show the contribution (values from 0 to 1) of dust to the daily average surface concentrations (http://www.sciencedirect.com/science/article/pii/S1352231016304745?via%3Dihub).

A plume of dust so thick it completely hides the land and water surfaces below stretches northeastward from Tunisia. The dust passes over northwestern Sicily and mixes with clouds west of mainland Italy. Between dust and clouds, the Mediterranean Sea is almost completely obscured in this natural-color image. The clouds may be related to the same weather system that stirred the dust. (πηγή: https://earthobservatory.nasa.gov/NaturalHazards/view.php?id=47403).

Θέση πηγής:
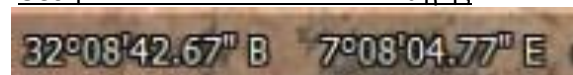
1. Υπολογίστε την εξέλιξη της διασποράς του θυσάνου κατά την παραπάνω ημέρα επεισοδίου σκόνης
2. Υπολογίστε την οπισθοτροχιά των αέριων μαζών που βρίσκονται Αθήνα (38.04 Ν, 23.86 Ε) σε επόμενη ημέρα.

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
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