

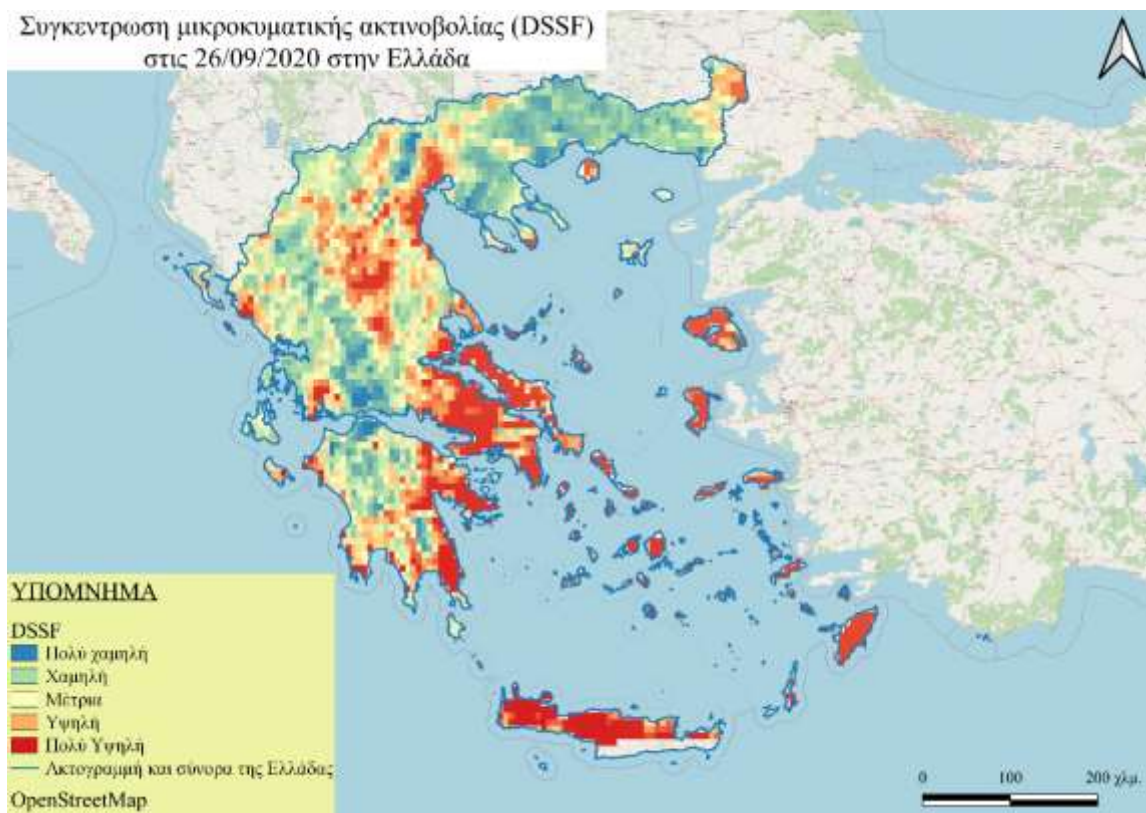
## Improved satellite support for climate change studies with the new Radiation Index (DSSF) of the Aratos Earth Observation Data Platform

In the renewed system of **Aratos Earth Observation Data Platform** the renewal of the DSSF radiation index is added. Downwelling Surface Shortwave Radiation Flux (DSSF) refers to the radiation energy in the wavelength range (0.3 microns - 4.0 microns) that reaches the Earth's surface per hour and surface unit.

It essentially depends on the angle of the solar zenith, on the cloud cover and to a lesser extent on the atmospheric absorption and surface whiteness.

The DSSF index is vital for a wide range of applications including scientific areas such as weather forecasting, hydrology, climate, agriculture and environmental studies.

In numerical weather forecasting and general atmospheric circulation models, satellite-derived DSSF calculations can either be used as a control variable or as a substitute for surface radiation measurement networks.



**We continue to innovate with space technologies since 2005.**

For more information visit [www.aratos.gr](http://www.aratos.gr) and [www.aratosdisastercotrol.com](http://www.aratosdisastercotrol.com).