## A new GLE Alert issued in real-time by the



**Athens Neutron Monitor Alert System** operated in ESA Space Weather Service Network R-ESC

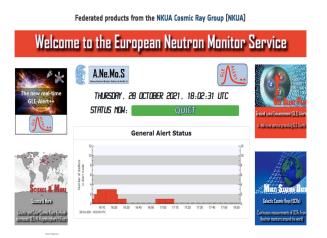


## Ground Level Enhancement (GLE 73) on 28.10.2021

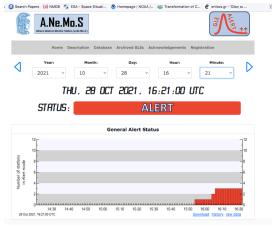
On **28 October 2021**, the operational worldwide Neutron Monitor Network recorded a ground level enhancement of the cosmic ray intensity, named **GLE73** followed by a **Minor Radiation Storm!** 

The new real-time **GLE ALERT++** system of the Athens Neutron Monitor Station issued an **Alert signal** on **28.10.2021 at 16:06 UT 45 min earlier from GOES satellites!!** 

## http://swe.ssa.esa.int/web/guest/space-radiation





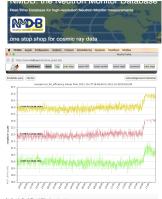




Notification via e-mail was sent to the subscribed users



NM Stations contribute to the Alert++ Red -Alert mode





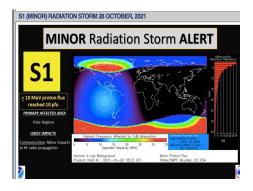


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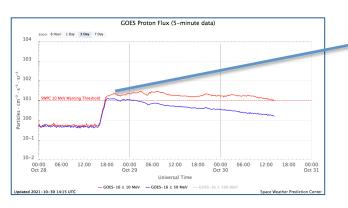
Athens Neutron Monitor Alert System operated in ESA Space Weather Service Network R-ESC



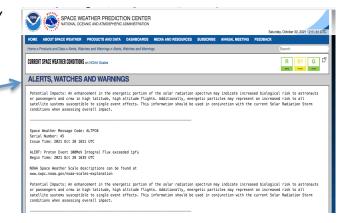
## The relevant ALERT from GOES of >100 MeV protons and flux > 1pfu was issued in real-time by NOAA on 28.10.2021 at 16:51 UT!



Space born measurements of proton fluxes >10 MeV and SXR flare from GOES satellite.



Proton fluxes >100 MeV measured by GOES (SWPC\_NOOA)



Alert signal issued by Space Weather Prediction Center\_SWPC of NOAA

GLE Alert ++ signal 45 min earlier than the alert issued by GOES!!!