

Solar flare C1.7-class on December 24, 2012

The sun is in a period of low activity, this is an anomalous behavior, because we are close to the maximum cycle period, and only C-class flares have happened, such as the C1.7-class flare and whose origin was the active region 1635 on December 24, 2012, at 16:07 UT. There is a prompt signal of this flare in the vertical muon telescope, with a significance of 58% as is shown in the bottom figure. The onset of the muon excess was after 20.4 minutes of the X-ray emission (at 1UA) observed by the GOES15, as is shown in the top figure.

