Geophysical Research Abstracts Vol. 18, EGU2016-4732, 2016 EGU General Assembly 2016 © Author(s) 2016. CC Attribution 3.0 License.



The X-class flares released in the year 2014, during the double peak of SC-24

Ahmed Hady, Marwa Mostafa, and susan samwel Cairo University, Cairo, Egypt (aahady@sci.cu.edu.eg)

During the Solar cycle 24 decline phase, giving a new peak was given on January 7, 2014 and the release of x-class flare, with high energetic particles, bigger than that occurred during the mean peak of this cycle. After that a few X-class flares was released during year 2014. We note that during the last 5 solar cycles, a new peak has appeared releasing high energetic particles and X-class solar flares, which are called the secondary peak or the double peak of solar cycle.

The aim of this descriptive study is to follow the morphological and magnetic changes of the active region before, during, and after the production of X-class flares according to data analysis.

Furthermore, the causes of the release of these eruptive storms have been discussed for the period, year 2014, during the double peak of the solar cycle 24.