

# Solar flare M1.7- class and M1.6- class on November 20, 2012

Solar activity has been moderate with two low level M1.7-Class flare at 12:41 UT and a M1.6-class flare at 19:28 UT and numerous C-Class flares detected on Nov 20, 2012. Most of the activity has been centered around Sunspot 1618 in the northern hemisphere. This region currently has a Beta-Gamma magnetic configuration with a slight delta region within the middle of the group.

M1.7 and M1.6 X-rays flares (Nov 20,2012) on the GOES15 spacecrafts (top panel). Tupa muon counting rate on the inclined 45 degree West telescope (bottom panel). The two peaks observed on the Tupa data indicate the probable association with GOES M-class flares.

