

SPACE WEATHER INFORMATION AND FORECAST SERVICES

(SWIFtS)

WEEKLY SPACE WEATHER NEWS

Periode: March, 3rd – 9th 2017

SOLAR ACTIVITY

For the past week, the Sun was quiet. Since the decaying of NOAA 2641 earlier of the week, which produced several B-class flares, all the active regions for the past week (NOAA2640, NOAA2641, and NOAA2642) steadily decayed to played. Also, no other significant Solar activities recorded for the past week.

GEOMAGNETIC ACTIVITY

Geomagnetic activities in Indonesia during March 3rd – March 9th were in quiet to active level. The minimum value of Dst index on March 3rd was -54 nT. While Kp index has reached 5 on March 6th 2017. At high latitudes, fluctuation of AE index with intensity of 1500 nT. The geomagnetic disturbance has been triggered by high speed solar wind stream, with maximum speed reached around 750 km/s. Due to the fast stream, electron flux was on very high level.

IONOSPHERIC ACTIVITY

Ionosphere conditions in this week started with strong level disturbance on March 3rd and decreased in moderate level on March 4th and then decreased in to quiet level until March 9th.

The strong disturbances in the ionosphere was due to depression of critical frequencies of $F/F2$ layers ($foF2$) for 12 hours. The $foF2$ depressions were impacted to the radiowave propagation over the ionosphere which known as the *MUF Depression*. There was no increment of $fmin$ that could be a source of disturbance in the HF radio communication which known as *Shortwave Fadeout* (SWF) or *Radio Blackout* (RB). Based on the observations using GISTM over Bandung and Biak, the scintillation ($s4$) condition for this week were quiet to severe level. And the error positioning conditions were normal conditions that determined by the index W values.

*For daily space weather information and forecast, please refer to our **Space Weather Information and Forecast Services (SWIFtS)** official website at swifts.sains.lapan.go.id or please e-mail us for request*



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