

# SPACE WEATHER INFORMATION AND FORECAST SERVICES

(SWIFtS)

## WEEKLY SPACE WEATHER NEWS

Periode: March, 10<sup>th</sup> – 16<sup>th</sup> 2017

### SOLAR ACTIVITY

For this past week, Solar activity was quiet due to the fact that the Sun was spotless, there were no active regions appear on the Sun. No significant activity recorded, no flare, no radio burst, and no CME detected for the past week. The spotless Sun was occurred for longer than one week.

### GEOMAGNETIC ACTIVITY

Geomagnetic activities in Indonesia during March 10<sup>th</sup> – March 16<sup>th</sup> were in quiet level. The lowest minimum value of Dst index was on March 10<sup>th</sup> was -30 nT at 04:00 – 05:00 UT, while Kp was 3 at the same time. At high latitudes, the highest intensity of AE index was 1000 nT on 10 March 2017. Space environment condition actually been slight disturbed because there were several times occurrences of high speed stream from coronal hole, and it was slight disturbed the high latitude region. While in the low latitude and equator region there was no effect from the events.

### IONOSPHERIC CONDITIONS

Ionosphere conditions in this week were dominantly in quiet level, there was moderate condition at 11-13 March 2017. The Quiet level disturbances in the ionosphere was due to no depression of critical frequencies of  $F/F2$  layers ( $foF2$ ). 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, Biak and Manado the scintillation ( $s4$ ) condition for this week were quiet level. Similar to the  $s4$  conditions, the error positioning conditions were between normal to slight levels 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](http://swifts.sains.lapan.go.id) or please e-mail us for request by facsimile*



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