

SPACE WEATHER INFORMATION AND FORECAST SERVICES

(SWIFtS)

WEEKLY SPACE WEATHER NEWS

Periode: May, 5th – 11th 2017

SOLAR ACTIVITY

For the past week, Sun were on quiet level. The condition remained very low as the Sun reveals two simple active region (NOAA 2654 & 2655) without flaring activity. NOAA 2654 and 2655 are a stable region with simple characteristic. For the last of the week, there was only one active region left, and spotless, i.e., NOAA 2655. Thus, for the whole week between May, 5th – 11th 2017, the Solar activity remain quiet, continued from the previous week.

GEOMAGNETIC ACTIVITY

Geomagnetic activities during May, 5th – 11th 2017 were on quiet level. The minimum Dst index was -9 nT. Maximum Kp index was 3. Substorm occurred several times on May 7th, 2017 with total duration about 14 hours, and the AE index intensity was ≤ 1000 nT. The electron flux on May, 5th – 11th 2017 were at low level condition, around 100 [cm²/sec/sr], except on May, 7th reached a high level, around 1000 [cm²/sec/sr].

IONOSPHERIC CONDITIONS

Ionosphere conditions in this week were dominantly in quiet level.

The Minor level disturbances in the ionosphere was occurred only for one day due to the depression of critical frequencies of F/F2 layers (*foF2*) for more than 1 hours in 10th May 2017. The *foF2* depressions were impacted to the radiowave propagation over the ionosphere which known as the *MUF Depression*. Although the *foF2* experienced depression, the minimum frequencies (*fmin*) of the ionosphere in this week were in normal conditions. 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 or please e-mail us for request by facsimile*



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