SPACE WEATHER INFORMATION AND FORECAST SERVICES
(SWIFtS)
WEEKLY SPACE WEATHER NEWS
Periode: January, 13th – 19th 2017

SOLAR ACTIVITY

Within the past week, the Sun was in quiet condition, with slight increase becoming eruptive due to activities of flare C 3.8 from NOAA 2625 earlier on 01/12 15:54 UT. Afterward, the Solar decrease to quiet with two Active Regions remain, NOAA 2625 and 2626 on the Solar disk with the tendency to be stable for the whole week. Three type III radio bursts were observed for past week.

GEOMAGNETIC ACTIVITY

Geomagnetic activities in Indonesia during January 13th – 19th were in quiet level. The maximum value of K-index was 3 while Kp index has reached 5 on January 17th 2017, triggered by fast stream emerged from the sun. Minimum Dst index has reached -23 nT on January 19th 2017. Substorm occurred at January 18th, 5 UT, It has taken 41 hours of duration but with intensity less than 1000 nT. Due to the fast stream, electron fluxes has reached high level on January 17th 2017.

IONOSPHERIC CONDITIONS

Ionosphere conditions in this week generally were inquiet condition. Only one day was strong disturbances level on January 15, 2017.
The strong level disturbances in the ionosphere was occured due to the depression of critical frequencies of F/F2 layers (foF2) for up to 3 hours duration. 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). The error positioning conditions were in normal to slight level condition with W index up to -2.

*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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