

## Analisis asosiasi semburan radio matahari tipe III dengan flare sinar X dan frekuensi minimum ionosfer

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### Abstrak

The type III solar radio bursts is an indicator of solar X-ray flare phenomena. The effect of solar X-ray flares to the ionospheric layer is the increasing of minimum frequency ( $f_{min}$ ) which indicates the absorption of incoming high frequency (HF) radio wave. Further impact is a disturbance of high frequency radio communications. The number and flux density of type III bursts and X-ray flare can used as an information of ionospheric disturbance possibility. The correlation analysis shows that the number of X-ray flare is related to the number of ionospheric absorption and the time duration of these absorption. The serial event of type III bursts and solar X-ray flare occurs during February 6th to 12th, 2010 are an example cases of the early warning of possibility of radio communications disturbances.