

Solar-Terrestrial Interaction as Studied from Total Solar Eclipse of 9 March 2016

*Rhorom Priyatikanto¹, Tiar Dani¹, Emanuel Sungging Mumpuni¹, Mamat Ruhimat¹, Jiyo .¹

1. Indonesian National Institute of Aeronautics and Space

Total Solar Eclipse of 9 March 2016 provides a great opportunity to study the interaction between the Sun and Earth as a complex system. Several team of observers and scientists from National Institute of Aeronautics and Space will be dispatched to some observing points along the track of Lunar shadow and its proximity. The main missions are: (1) to study the physical nature of lower part of Solar corona, (2) to understand the ionospheric disturbance caused by a sudden drop of Solar radiation to the Earth, and (3) to measure the dynamics of local magnetic field that is influenced by the ionospheric disturbance. Preliminary result of those observations/experiments will be discussed in this paper.

Keywords: Solar Eclipse, Corona, Ionosphere, Geomagnet