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## **Analysis of Lightning Activity Variations over Papua New Guinea**

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### **Abstract**

The properties of lightning activity over Papua New Guinea have been studied using satellite observations for the period 1998-2016. Variation of lightning activity depend on a number of factors like season, place and time. OTD/LIS lightning flash data has been used for our analysis. An increase in trend of lightning activity was observed in certain regions. These variations are compared with atmospheric parameters like atmospheric temperature, humidity and precipitation. Last decade is known to be the warmest period during the past century. Lightning activity can be modulated by sunspot cycle and atmospheric warming. The factors that control lightning activity will be discussed.

### **Topic Areas**

Lightning Physics, Characteristics and Measurements, Aviation and Other Unique Uses of Lightning Data

### **Submission Format**

No preference