



A study of variation of Sun's Spot and South West Monsoon and Cyclonic Storms in India

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Sun's Spot(S.S) can modulate the Solar Activities (e.g. Solar Wind, Radiation etc.) by large amount. But the Sun's Spots themselves undergo temporal variation in number, size and location on Sun's surface. In particular, analysis have revealed many features of these variation of number of spots including 11 or 22 years cycles. In Indian sub-continent South West Monsoon (SWM) [Rainfall, On-Set Date (OSD), no. of Cyclonic Storms etc.] also does not remain same from year to year. It is possible that all these phenomena are modulated by Solar Activities, that is to say, indirectly by S.S. But it is found that possibly there exist some critical S.S number only beyond which its role become significant i.e. S.S becomes capable to modulate the atmospheric phenomena only when it exceeds some critical value.