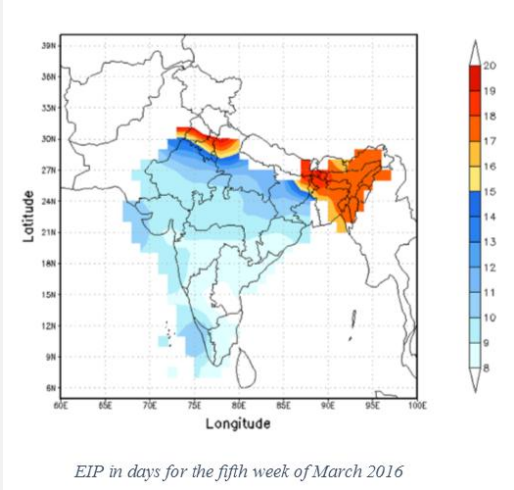


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Program Research Initiation Program
Duration Nine months



Project title Study of Meteorological Parameters associated with Malaria using Satellite Observations and Numerical Models

INSAT-3D and ISRO-AWS data were analysed to study the influence of meteorological parameters on the transmission of vector-borne disease Malaria over the Indian region. SIR and Liverpool Malaria Models were also used to study the characteristics of different malaria parameters such as Human Biting Rate and Extrinsic Incubation Period. Good correlation is found between reported cases of Malaria with rainfall and air temperature.



Extrinsic Incubation Period (in days) computed for the fifth week of March 2016 using INSAT-3D data.