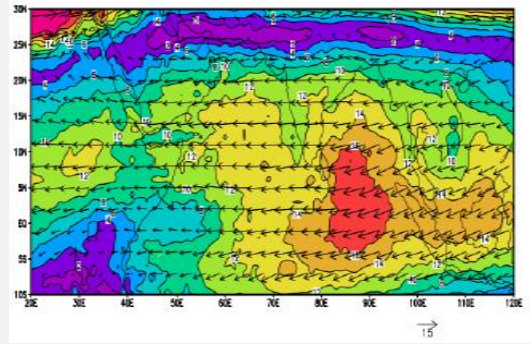


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Program Research Initiation Program
Duration Five months



Project title Intra-Seasonal Variation of Tropical Easterly Jetstream Captured by INSAT-3D Atmospheric Motion Vectors

Ability of the INSAT-3D AMVs to capture the know characteristics of the tropical easterly jet stream is studied during 2014-2017 monsoon season. Results are compared with ECMWF and NCEP reanalysis data. INSAT-3D AMV is able to capture the spatial pattern, strength and location of the axis very well. Intraseasonal northward propagation of TEJ's axis, change in the position of axis between active and break monsoon conditions are studied. Association between monsoon rainfall activity, low level jet steam and tropical easterly jet stream is explored.



Seasonal (JJAS) mean winds (ms^{-1}) between 300 hPa and 200 hPa for 2014 obtained from INSAT-3D. The tropical easterly jet stream is seen clearly.