
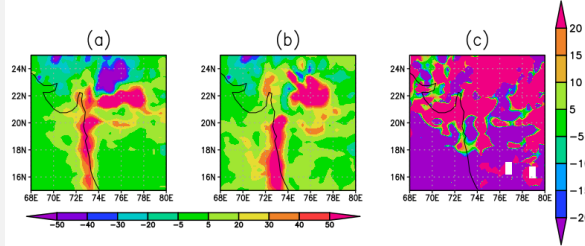


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Affiliation Qualification Program Duration	SV – NIT, Surat Ph. D Scholar Advance Research Programme One month	
Project title	<p>Assimilation of INSAT-3D Sounder retrieved temperature and humidity profiles in WRF model: A case study over South Gujarat region.</p> <p>INSAT-3D sounder retrieved temperature and humidity profiles have been assimilated in WRF model to study their impact on heavy rainfall forecast. A case of heavy rainfall that occurred over Gujarat and Madhya Pradesh during 25 July 2015 has been considered for the study. Results suggested positive improvements in 24-hr accumulated rainfall forecast due to the assimilation of INSAT-3D data.</p>	 <p>(a) Control minus GSMaP 24-hr accumulated rainfall [mm] (b) Experiment minus GSMaP 24-hr accumulated rainfall [mm] and (c) Improvement parameter (%).</p>