
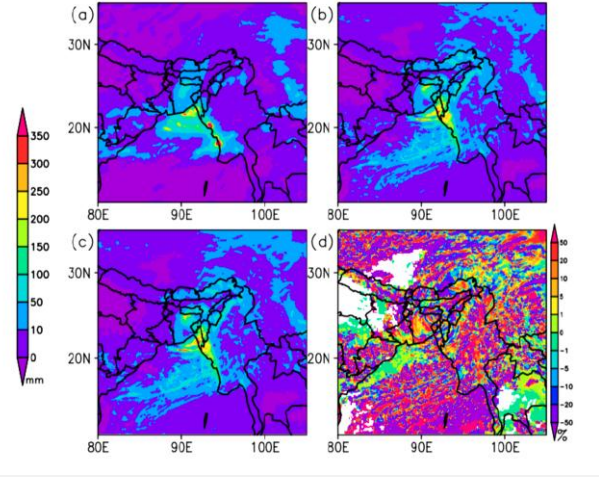


<p>Name</p> <p>Affiliation</p> <p>Qualification</p> <p>Program</p> <p>Duration</p>	<p>Mr. Lekhadiya Hiren Satishkumar</p> <p>SV-NIT, Surat</p> <p>Ph. D</p> <p>Advance Research Program</p> <p>Three months</p>	
<p>Project title</p>	<p>Impact of the assimilation of INSAT-3D sounder retrieved temperature and humidity profiles on extreme rainfall event forecast</p> <p>Impact of the assimilation of the INSAT-3D retrieved temperature and humidity profiles in WRF model was evaluated during a heavy rainfall event (12-15 June 2017) over Bangladesh and adjoining region. The analysis obtained after assimilation was compared with the ECMWF analysis. Results showed a quite good improvement in temperature and humidity profiles when compared with ECMWF analysis. The model predicted 72-Hr rainfall forecast was also found to improve the assimilation of INSAT-3D retrieved temperature and humidity profiles.</p>	 <p>Spatial distribution of (a) GSMaP rainfall [mm] (b) CNT rainfall [mm], (c) EXP rainfall [mm] and (d) rainfall improvement parameter.</p>