High Resolution Real Time Weather Forecast

Mesoscale Model: Weather Research and Forecasting Model (Version 3.3)

Horizontal Resolution: Nested Domain (45 Km, 15 Km and 5 Km)

Grid Points: Domain 1: 260×235 (45 Km)

Domain 2: 352×373 (15 Km)

Domain 3: 676×721 (5 Km)

Vertical Levels: 36 (upto 10 hPa)

Assimilation Method: 3-Dimensional Variational Data Assimilation (3D-Var)

Data Used for Assimilation:

ISRO's AWS, INSAT AMV, Vertical profiles from GTS, Ocean Surface Winds from Oceansat-2 and ASCAT Scatterometer, Temperature and Moisture Profiles from ATOVS and IASI (EUMETCast), Refractivity from GRAS RO (EUMETCast), Conventional observation and AMVs available through GTS.

Error Statistics in Surface Meteorological Parameter

Forecast Hour	Temperature (C)	Relative Humidity (%)	Wind Speed (m/s)
	Rmsd (Bias)	Rmsd (Bias)	Rmsd (Bias)
24 Hour	1.42(0.38)	9.37(-2.77)	1.85(0.18)
48 Hour	1.51(0.33)	10.10(-2.76)	2.06(0.13)
72 Hour	1.61(0.29)	10.63(-2.65)	2.21(0.09)























