

SYSTEM FOR SHORT-TERM NUMERICAL FORECAST OF WEATHER



SISTP

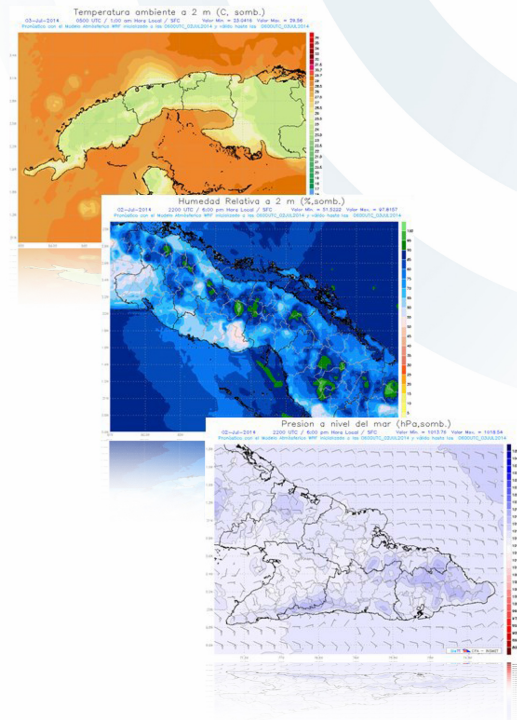


Center of Atmospheric Physics - Institute of Meteorology

SOCIAL IMPACT

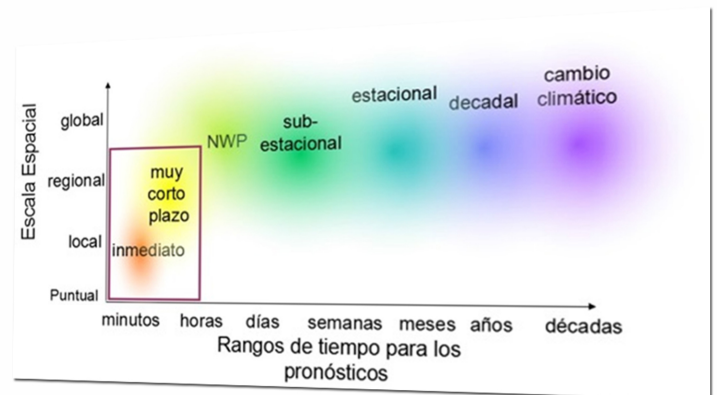
Weather Numerical Forecast can be used in developing early warning systems and monitoring of meteorological phenomena. This would mitigate the impact of natural disasters that cause loss of human lives and goods.

The main goal of numerical modeling is to develop a system of short-term forecast based on the coupling of models of weather numerical prediction, ocean flows, waves and data acquisition.



Short term forecast

The short-term forecast includes immediate forecast of weather phenomena through radar and satellite observations and weather numerical modeling.

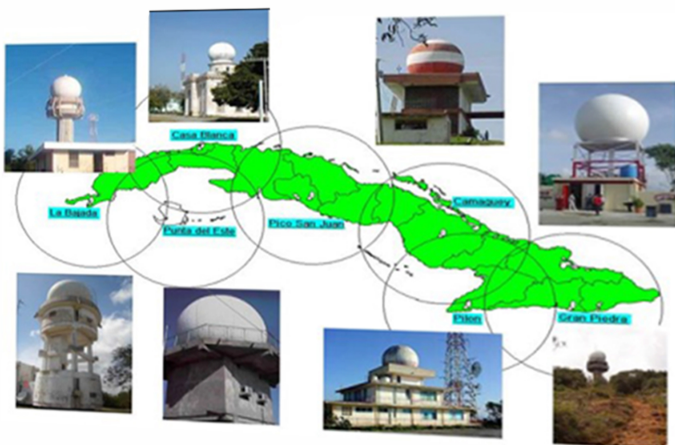


WRF Model

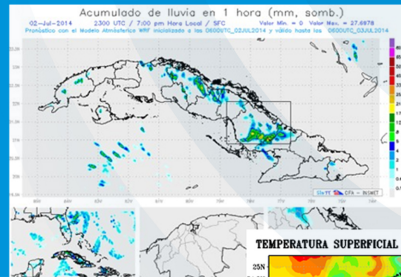
WRF-ARW model is based on the use of advanced numerical methods for solving systems of equations describing the physical processes occurring in the atmosphere. This model has a powerful software engine, and also incorporates the latest advances in the field of weather numerical modeling. There are four domains for the modeling, with resolutions of 27, 9, 3 and 1km.

Data Assimilation

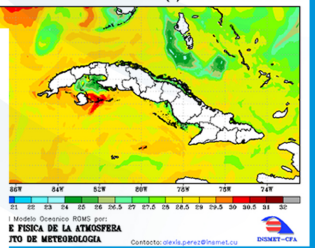
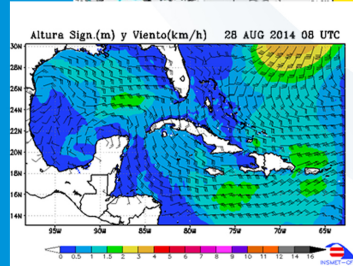
Data from surface stations, soundings, radars and weather satellites are included in the initialization of numerical forecast



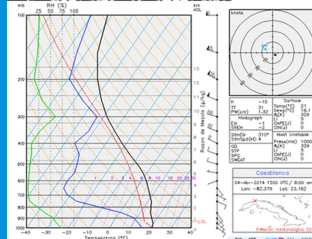
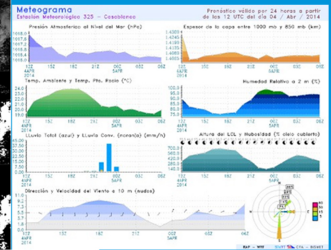
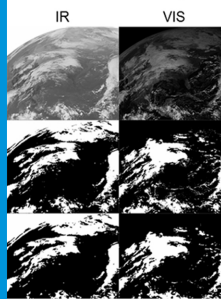
Products and Services



TEMPERATURA SUPERFICIAL DEL MAR (C) 28 AUG 2014 18 UTC



Identificación de objetos



SIST



Contact

MSc. Maibys Sierra Lorenzo
maibys.lorenzo@insmet.cu
Loma de Casablanca, Regla, Havana. CP: 11700
Telephone: 537-868-6591