USE OF NUMERICAL WEATHER PREDICTION MODELS OUT PUT AND SATELLITE IMAGERY TO FORECAST TROPICAL CYCLONE/DEPRESSION OVER SOUTH INDIAN OCEAN

Abstract

Tropical Cyclone and Depression is one of the great deals of destruction to man made structure and vegetation, which strike human habitation and buildings, cause flood and kill people. Therefore interest needs to be put in forecasting such phenomena.

This study examines tropical cyclones/Depressions generated over South Indian Ocean, then use satellite image, Numerical Weather Prediction Out Put models such as ARPEGE, UKMO and ECMWF , to track an d forecast Tropical Cyclone/Depression. The Analysis and forecast will be shown on a Map called Southern Africa Synthetic Analysis and Southern Africa Synthetic Forecast.

The results show the inefficiency of the three models to forecast tropical cyclones/Depressions after 72hours.