

Some Characteristics of Surface Wind Structure of Tropical Cyclones over the North Indian Ocean

**Regional Specialised Meteorological Centre
India Meteorological Department
Lodhi Road, New Delhi-110003**

Regional Specialised Meteorological Centre (RSMC), New Delhi, has prepared structure of cyclonic disturbances for premonsoon and post monsoon seasons over the north Indian Ocean. The structure of different stages of cyclonic disturbances, viz., cyclonic storm (CS) with maximum sustained wind speed (MSW) of 34-47 knots, severe cyclonic storm (SCS) with MSW of 48-63 knots, very severe cyclonic storm (VSCS) with MSW of 64-119 knots and super cyclonic storm (SuCS) with MSW of 120 knots or more are presented in figures 1 & 2. The category of extremely severe cyclonic storm has been merged with the category of VSCS.

For details about the data, methodology and results the following publication may kindly be referred.

M Mohapatra and Monica Sharma, 2016, Some Characteristics of Surface Wind Structure of Tropical Cyclones over the North Indian Ocean, Journal of Earth System Sciences, 124, 1573-1598.

Pre-monsoon Season

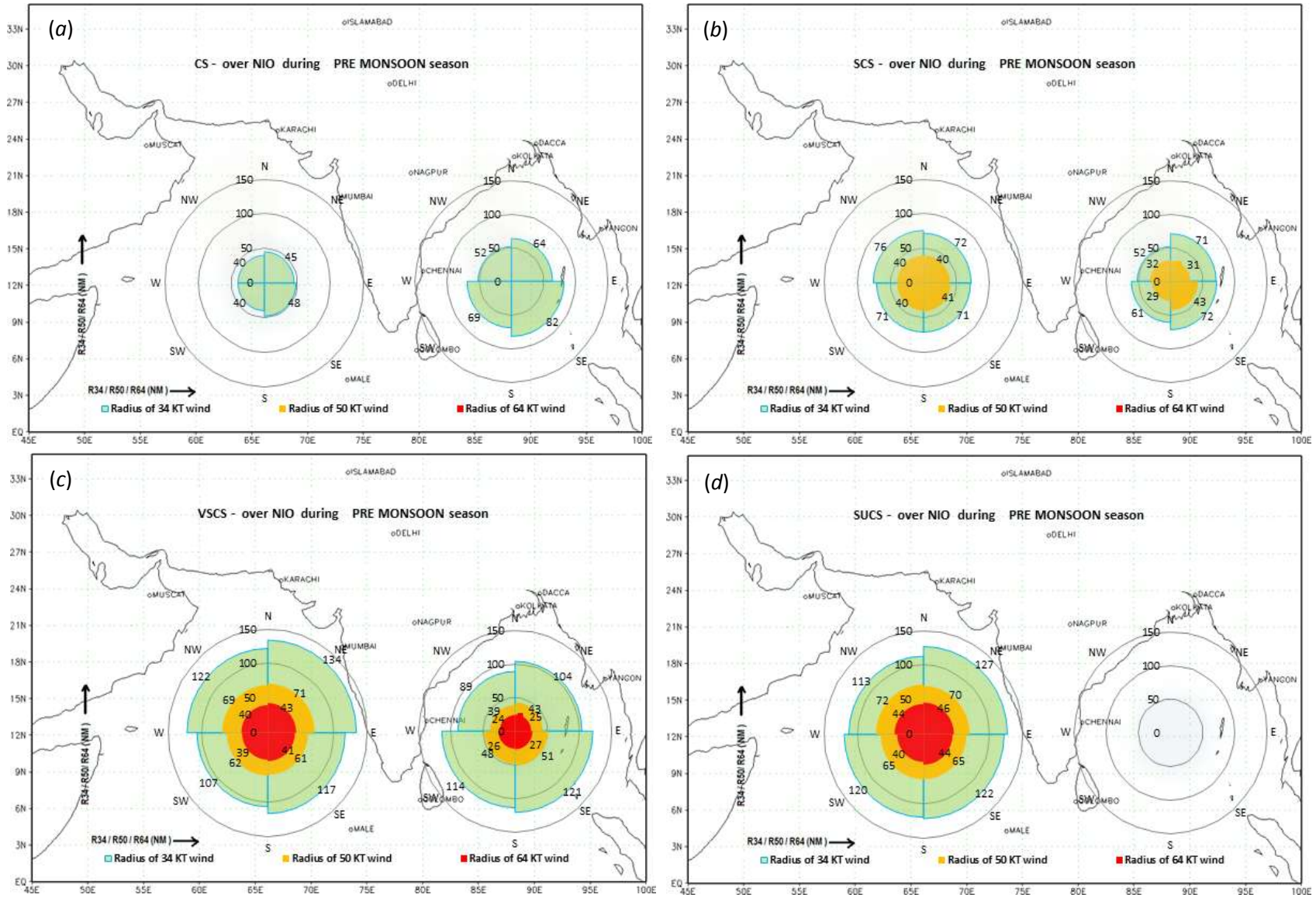


Fig.1. Quadrant wind radii of 34 (green), 50 (yellow) and 64 (red) knots wind (R_{34} , R_{50} and R_{64}) in association with TCs of different intensities (a) CS, (b) SCS, (c) VSCS and (d) SuCS during pre-monsoon season
 The values written inside each quadrant indicate mean R_{34} , R_{50} and R_{64} (nautical miles)

Post-monsoon Season

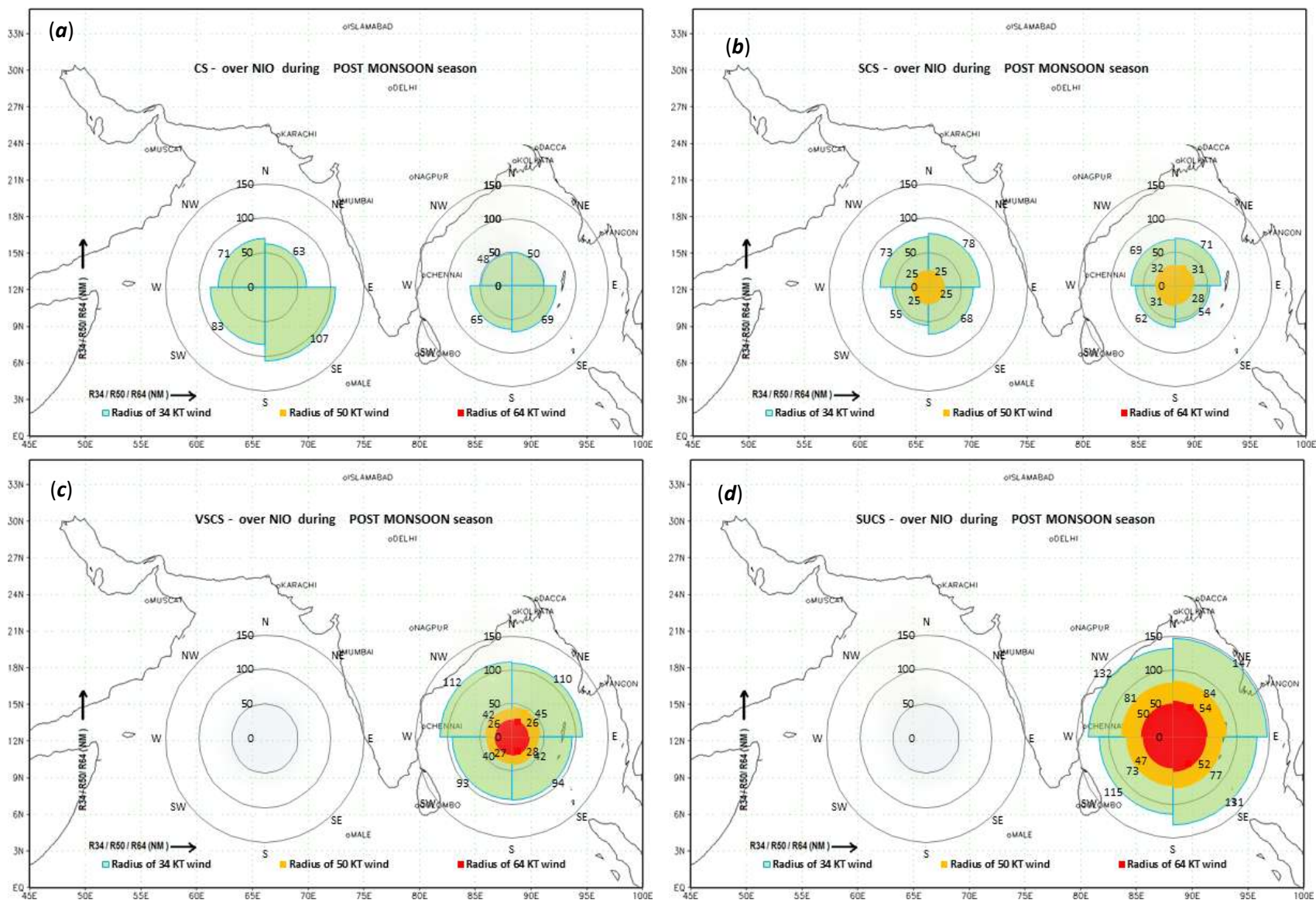


Fig.2. Quadrant wind radii of 34 (green), 50 (yellow) and 64 (red) knots wind (R_{34} , R_{50} and R_{64}) in association with TCs of different intensities (a) CS, (b) SCS, (c) VSCS and (d) SuCS during post-monsoon season
The values written inside each quadrant indicate mean R_{34} , R_{50} and R_{64} (nautical miles)