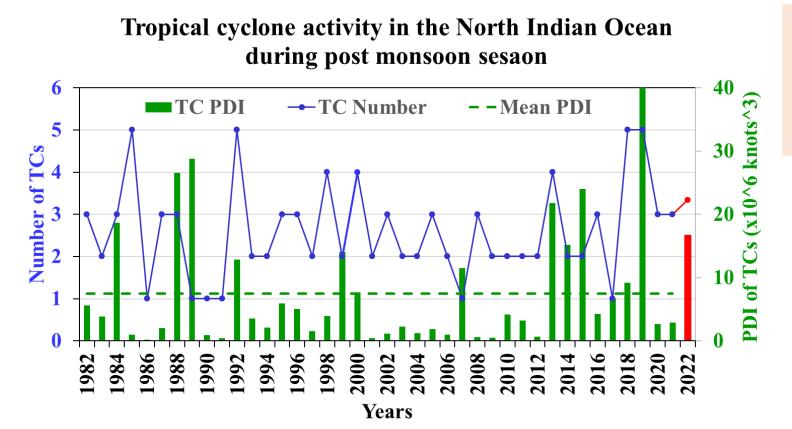
Seasonal Prediction of Tropical Cyclones in the North Indian Ocean

In the year 2022 during October-December months there is a possibility of formation of <u>three</u> Tropical cyclones in the North Indian Ocean with power dissipation index (PDI) of $17 \times 10^6 \, \text{knots}^3$.



Post monsoon season of the year 2022 may experience **three tropical cyclones** with **power dissipation index of ~17 x10⁶ knots³**.

 $PDI = \sum_{i=0}^{N} \sum_{j=0}^{T} V_{max}^{3}$ Where V_{max} is TC maximum sustained wind speed. 'T' is lifetime of TC at 6-h increments and 'N' is a number of TCs in a year

(PDI is a function of the intensity, lifetime and annual frequency of TCs)

Figure: Observed number (blue lines) and Power dissipation index (green stacks) of TCs in NIO during post monsoon years 1982-2021. The 40 years mean PDI value (7.49 x10⁶ knots³) is shown in green dashed line. The predicted number of TC (3.34) and its PDI (16.69 x10⁶ knots³) is shown in the red colour.