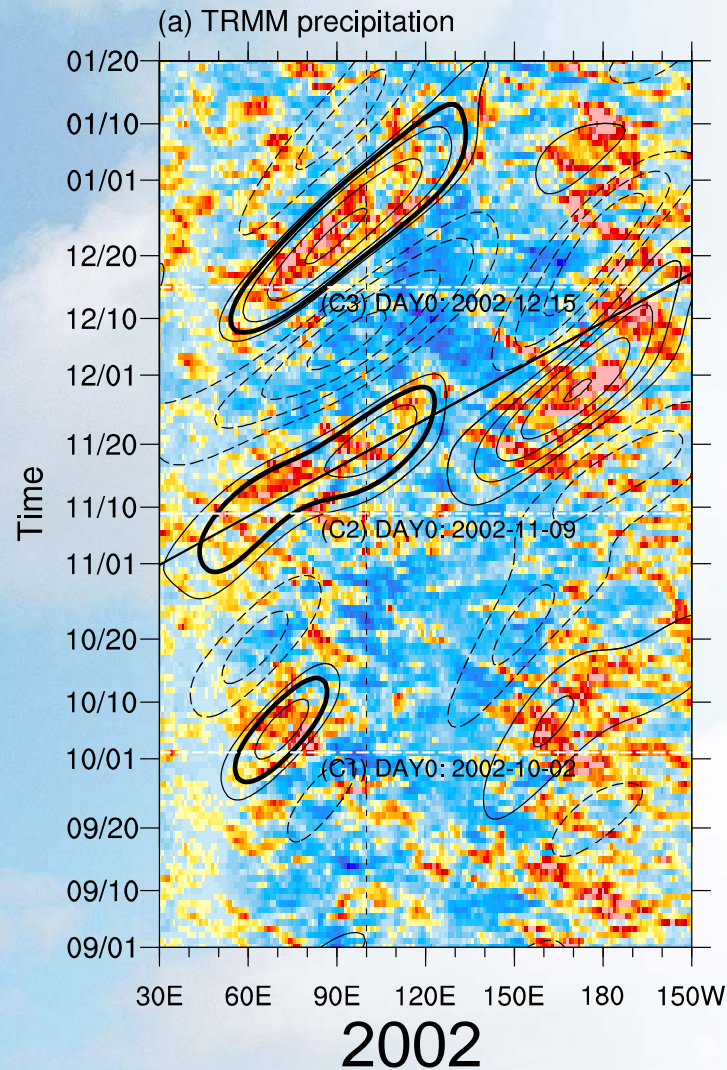


b. MJO and non-MJO



P_{MJO} : 20 - 80 days and zonal wavenumber 1 – 10, averaged over 10°S - 10°N (not perfect)

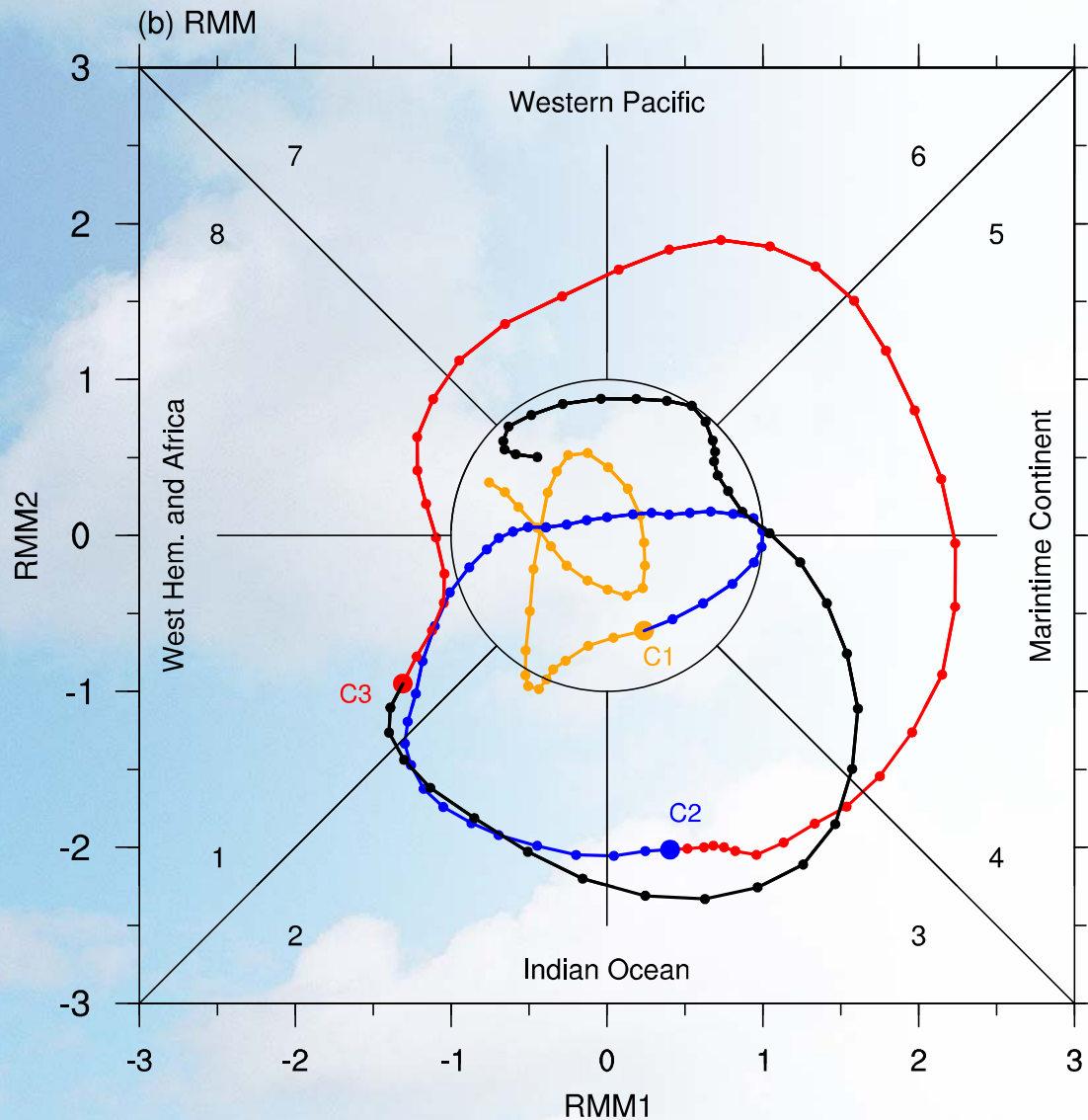
threshold of 1.45 mm day^{-1} was chosen as the noise level of P_{MJO} . This value is the averaged STD over the IO and MC ($60 - 120^{\circ}\text{E}$).

MJO:

(I) P_{MJO} was greater than 1.45 mm day^{-1} at day 0 at any longitude between $60 - 90^{\circ}\text{E}$

(II) area of $> 1.45 \text{ mm day}^{-1}$ moved eastward through 100°E (the eastern boundary of the IO) in the following days

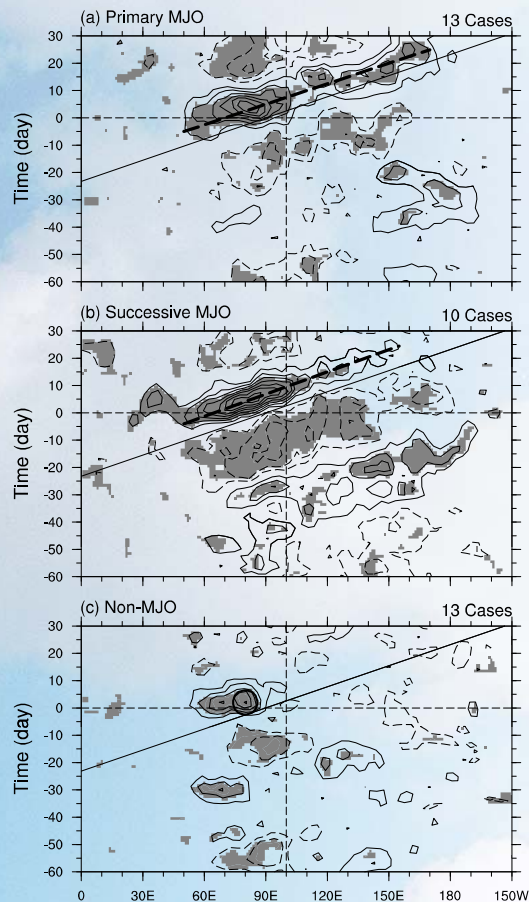
c. Primary and successive MJO



Successive:
 $|RMM| > 1$ in phase 8, 1
Primary:
 $|RMM| < 1$ in phase 8, 1

RMM phase diagram. Each dot represents a day. Red, black, and blue represent the primary MJO, successive MJO, and non-MJO, respectively. Convective initiation (day 0) is marked by the large dot.

d. Verification



Composite Hovmöller diagrams of precipitation anomalies (contours, interval 1 mm day⁻¹) averaged over 10° S – 10° N for (a) primary MJO events, (b) successive MJO events, and (c) non-MJO events.

Composite of the RMM index for the (red) primary MJO, (black) successive MJO, and (blue) non-MJO. Each dot represents a day. Day 0 is marked by a large dot.