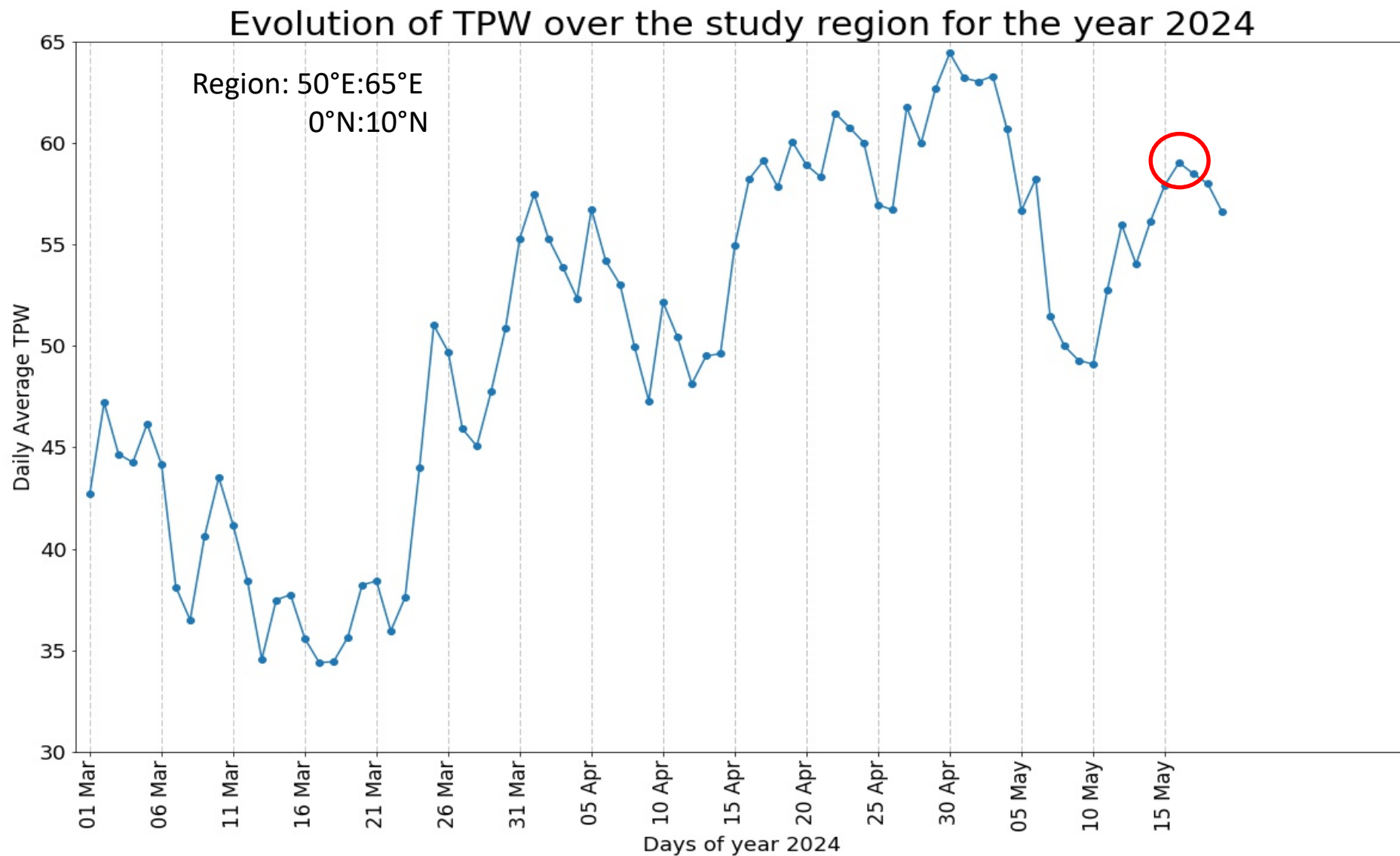
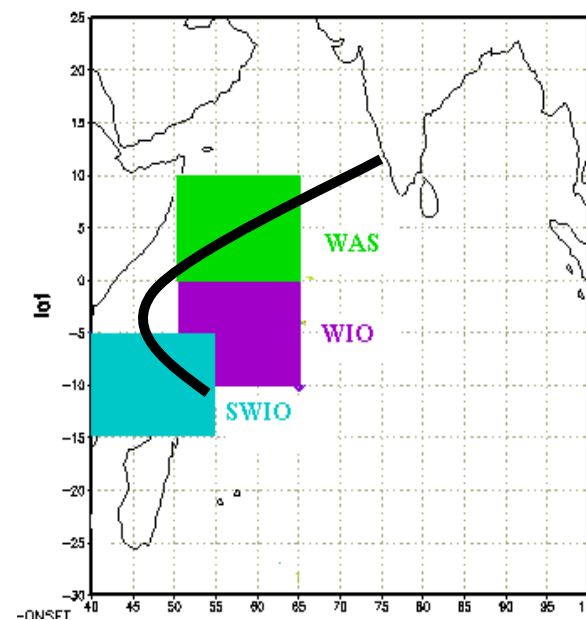


Study of Monsoon Onset over Kerala during 2024 using satellite observations

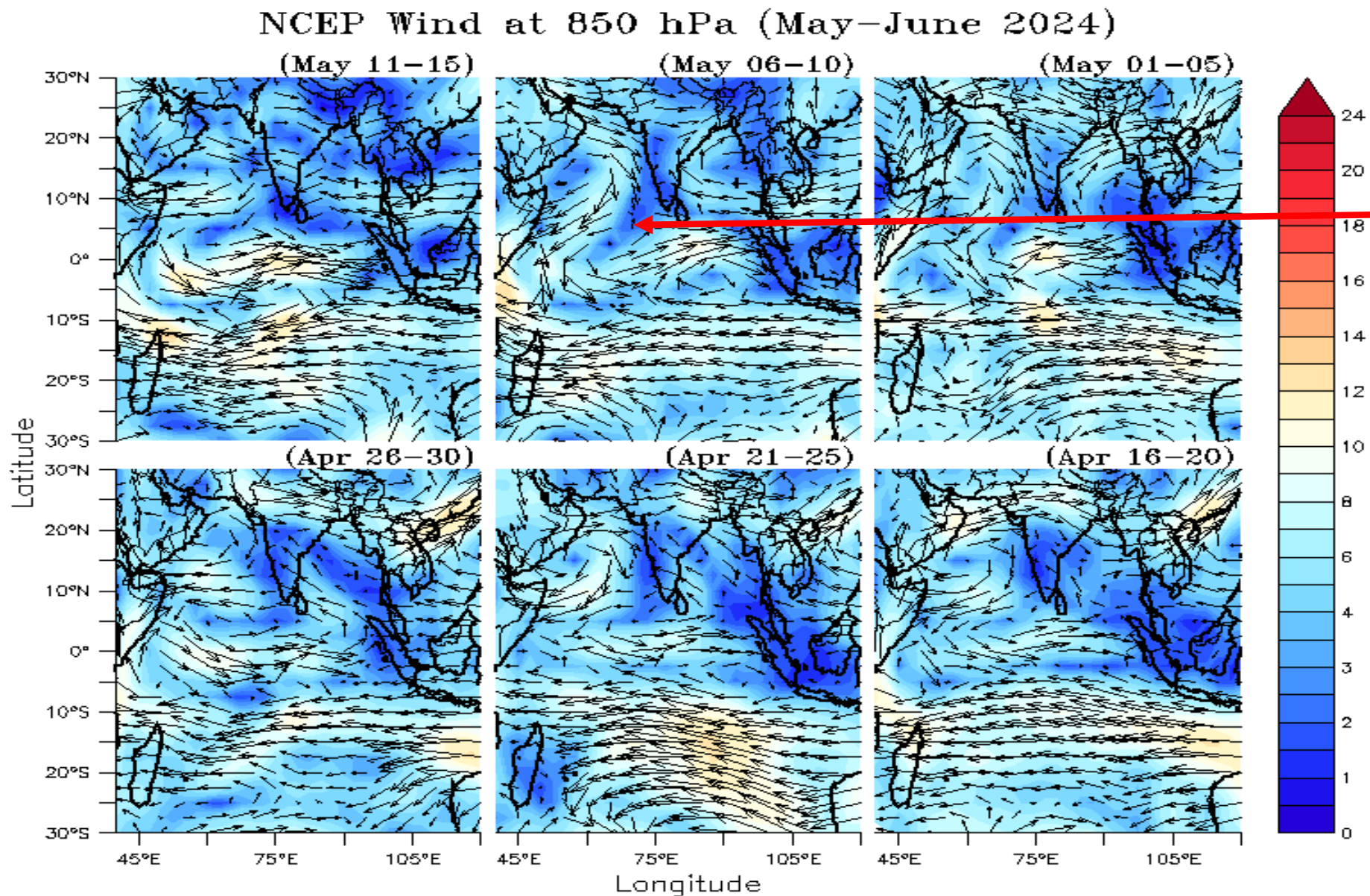


Peak of TPW:
16 May 2024

Prediction of Onset:
03 June 2024
(after 18 days from
peak of TPW, ± 4 days)



Pentad Wind at 850 hPa during pre-monsoon month of 2024



The wind reversal over equator yet to occur and the westerly wind got stronger after the peak TPW achieved.

Conclusion

- A peak of TPW over the Arabian Sea (50°E:65°E; 0°N:10°N) is occurred 18 days prior to Onset at Kerala.
- MJO start forming at the same time over equatorial Indian Ocean.
- The monsoon wind (wind reversal over equator and strong westerly wind) over Arabian Sea into Indian landmass started after the peak of TPW observed.
- **The present analysis lead to the conclusion that the Onset may occurred on 03 June 2024 with a error of ± 4 days.**
- We may like to update our prediction if any cyclonic condition occur over Bay of Bengal.