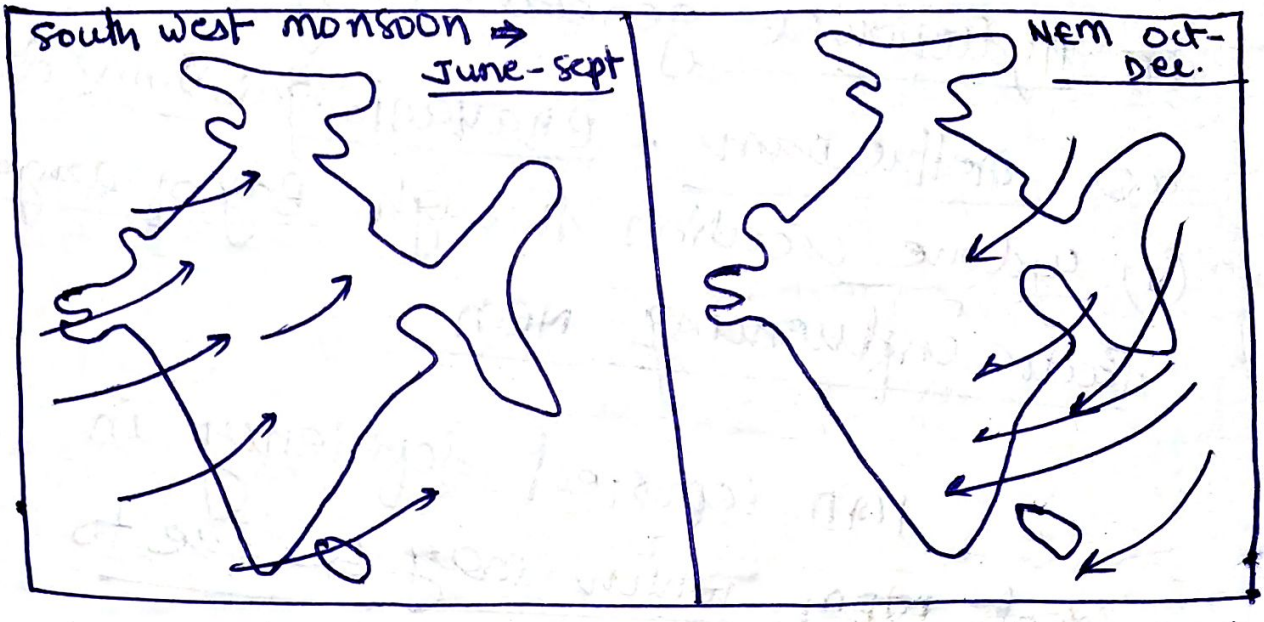
The complete reversal of wind with the apparent movement of sun - south wards brings rainfall in subcontinent. This is called North - East monsoon (NEM)



NEM completes the monsoon cycle and fed water to those regions which left deficient by south-west monsoon (SWM). Those regions are Tamilnadu, Kerala, AP etc.

Importance

(i) Agriculture - farmers of the region for rice, cashew, coffee etc depend upon NEM, which plays significance for livelihood.

(ii) Replenishing water bodies like Kaveri river and lakes like Kolleru.

(iii) Limiting Draught as witnessed in Chennai last year.

(iv) Hydropower generation by dams such as Mettur Dam, Bhavanisagar Dam etc.

(v) cyclone creation through Bay of Bengal.

factor influencing NEM

IMD reported deficiency in current NEM which may be due to

(i) ITCZ position which still lie at northern plain. This low pressure zone when move southward will attract the wind.

(ii) La-Nina condition due to differential heating of pacific ocean weakens north east winds.

(iii) Tibetan plateau may not get cooled as required and there may still be any low pressure.

(iv) western tropical jet may not be in position ie southern Himalaya and is unable to push wind south-ward.

(v) Differential heating of land and ocean may not be in sink with the north east monsoon requirement.