Monsoons
Mean January 200 hPa Divergent Wind,
Outgoing Longwave Radiation
1979-2001

Div. Wind (vectors, largest around 15 m s\(^{-1}\))
OLR (shading at 10 W s\(^{-2}\) intervals)
Mean July 200 hPa Divergent Wind, 
Outgoing Longwave Radiation 
1979-2001

Div. Wind (vectors, largest around 15 m s\(^{-1}\))
OLR (shading at 10 W s\(^{-2}\) intervals)
Observed Zonal Mean Monsoon Flow

NCEP Long Term Daily Mean Flow for July 1, 50E–150E
250 hPa heights, 15 January 1995
250 hPa heights, 15 July 1995
Fig. 1.5. The evolution of the velocity potential at 850 mb at two weeks prior to the onset, one week prior to the onset, the week of the onset, and one week after the onset. Selected intervals of $10^3 \text{ m}^2 \text{s}^{-2}$ for streamlines of the divergent wind are shown by heavy lines.
India Monsoon Cumulative Precipitation June 1 – August 31,

Water Requirement $295\text{mm} \times 3\text{ months} = 885$
Few areas received minimum water requirement.
Figure 3
Smoothed isopleths of maximum wind speed (in knots) for the layer 2000–8000 ft (600–2400 m) above MSL during the period of the northern summer monsoon. 1 kt = 0.5148 ms$^{-1}$. 
Fig. 4.1 Mean meridional flow at the Equator in July. (Findlater, 1969).
Fig. 6.8.1:2. Annual variation in the latitude and longitude position of low pressure center in the area of Indonesia and the Indian Ocean. The numbers 1 through 12 denote the calendar months. Arrows mean that the lowest pressure is found over land in indicated direction from plotted coordinates. Source: U.S. Navy (1976, 1977, 1979).
Figure 15.10. The explosive increase of winds over the Arabian Sea during the onset is seen in the time evolution of the rotational ($\psi$) and the divergent ($\chi$) kinetic energy at 1.5 km above the sea level or the 850-mb level from May through June 1979. It is interesting and worth noting that the total kinetic energy (sum of $K_\psi$ and $K_\chi$) started to increase rapidly around June 11 over the Arabian Sea while the rainfall over central India commenced around June 18.
Figure 11
Cross equatorial airflow at Garissa, Kenya in relation to rainfall at four stations in western India. (FINDLATER, 1969.)
Monsoon Depressions
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