

GROUP - A - Tropical Humid Climates

It exists between the tropics, i.e. Tropic of Cancer and Tropic of Capricorn.

- due to year-long overhead sun and presence of Inter Tropical Convergence Zone (ITCZ), its climate is hot and humid.

- low annual range of temperature and high rainfall is another characteristics of this climate.

Koepfen has divided this climate into three sub types.

(i) Af - Tropical wet climate.

(ii) Am - Tropical monsoon climate.

(iii) Aw - Tropical wet and dry climate.

(A) Tropical wet climate - (Af)

It is found near the equator.

Extent: The Amazon Basin in South America.

Western equatorial Africa.

Islands of East Indies.

Characteristics:

- (i) Thunder showers in Afternoon, throughout year
- (ii) Temperature is high, annual range of temperatures is negligible.
- (iii) max. temp 30°C minimum around 20°C .
- (iv) Tropical evergreen forest with dense canopy cover and very rich biodiversity of flora and fauna.

Tropical Monsoon climate (Am)

Extent:- Large part of Indian sub-continent
North: Eastern part of South America and
Northern Australia.

- Heavy rainfall occurs mostly in summer
- Dry winter

Tropical wet and dry climate → (Aw)

Extent: North and South of the Amazon forest, Sudan
and south of Central Africa.

Characteristics:

- Annual rainfall is less than Af and Am climate.
- Shorter wet season and longer dry season with drought.
- Temperature is high throughout the year and diurnal range of temperature are the greatest in the dry season.
- Deciduous forest and tree-shedded grasslands occur in this climate.