

CLASS NOTES FOR - B.A - PAR - 01 (Hons).

PAPER - 01 - Physical Geography.

Unit - 04 - climatic classification. (PART - 03)

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### Warm Temperate (Mid-Latitude) climates

Warm temperate (mid-latitude) climates extend from  $30^{\circ}$  -  $50^{\circ}$  of latitude mainly on the eastern and western margins of continents. These climates generally have warm summers with mild winters. They are grouped into 4 types.

(i) Humid sub-tropical (Cwa)

(ii) Mediterranean (Cs)

(iii) Humid sub-tropical i.e. no dry season and mild winter (Cfa)

(iv) Marine west coast climate (Cfb)

(A) Humid sub-tropical climate (Cwa)

Humid sub-tropical climate occurs poleward of Tropic of Cancer and Capricorn; mainly in North-Indian plains and South China interior plains. The climate is similar to Aw climate except that the temperature in winter is warm.

## (B) Mediterranean climate (Cs)

It occurs around the Mediterranean sea, along the west coast of continents in subtropical latitudes. between  $30^{\circ}$ - $40^{\circ}$  latitudes e.g - Central California, Central Chile, along the coast in South Eastern and South Western Australia.

These areas come under the influence of subtropical high in summer and westerly wind in winter. Hence the climate is characterized by hot, dry summer and mild, rainy winter. Monthly average temperature in summer is around  $25^{\circ}\text{C}$  and winter below  $10^{\circ}\text{C}$ . The annual precipitation ranges between  $35$ - $90$  cm.

## (C) Humid Subtropical (Cfa) climate

Lies on the eastern parts of the continent in subtropical latitudes.

• Due to unstable air masses, rainfall occurs throughout year.

extent Eastern USA, Southern and Eastern China, Southern Japan, North Eastern Argentina Coastal South Africa and Eastern Coast of Australia.

Annual precipitation range -  $75$ - $150$  cm.

⇒ Thunder storms in summer and frontal precipitation in winter are common.