

Class Notes for B.A. Part - 01 (Hons).

Paper - 01 - Physical Geography

Unit - 04 - climatic classification (PART-04)

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Marine West Coast climate

Marine west coast climate is located poleward from the Mediterranean climate on the west coast of the continents. The main areas are Northwestern Europe, west coast of North America, North of California, Southern Chile, South eastern Australia and New Zealand. Due to marine influence, the temperature is moderate and in winter, it is warmer than for its latitude. The mean temperature in summer months ranges from 15°C - 20°C and in winter 4°C - 10°C . The annual and daily ranges of temperature are small. Precipitation occurs throughout the year. Precipitation varies greatly from 50 - 200 cm.

Cold Snow Forest climates (P)

Cold snow forest climates occur in the large continental area in the northern Hemisphere between 40° - 70° north latitudes in Europe, Asia and North America. Cold snow forest climates are divided into two types (i) Df - cold climate with humid winters (ii) Dw - cold climate with dry winters.

Cold climate with humid winters (Df)

Cold climate with humid winters occurs poleward of marine west coast climate and high-latitude steppe. The winters are cold and snowy. The frost-free season is short. The annual range of temperatures are large. The weather changes are abrupt and short. Poleward the winters are more severe.

Cold climate with dry winters (Dw)

Cold climates with dry winters occurs mainly over northeastern Asia. The development of pronounced winter anti-cyclone and its weakening in summer sets in monsoon like reversal of wind in this region. Poleward summer temperatures are lower and winter temperatures are extremely low with many locations experiencing below freezing point temperatures for up to seven months in a year. Precipitation occurs in summer. The annual precipitation is low from 12-15 cm.