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WMA 308: SYNOPTIC METEOROLOGY

(2 Units)

General information on Synoptic Meteorology.

Definition and Scope of Synoptic Meteorology.

Examine Synoptic Meteorology as study that involved the weather conditions obtained simultaneously over a wide area. It involves the use of synoptic charts. The main objective of synoptic meteorology is to forecast weather.

Methods of Long and Short range weather forecasts. Basic synoptic codes-prospects of using meteorological satellite data – elements of world weather watch; compilation and analysis of weather charts.

Purposes of Forecasts.

Types of Forecasts.

Analysis of the fields of meteorological elements. Basic Synoptic Codes compilation and Analysis of Weather Charts.

Air masses – their classification and properties; Atmospheric forms. Cyclone activity, Macro-synoptic processes and Long-range weather forecast; Laws of general atmospheric circulation; peculiarities of circulation in various areas of the globe.

Pre-requisite: WMA 201.