

**Answer the following questions:**

- 1) Which criteria will determine the weather conditions along the flight route? Are they favorable for the occurrence of dangerous weather phenomena? If so, why?
- 2) Are dangerous weather phenomena expected along the flight route?
- 3) What flight and meteorological conditions are expected along the flight route?
- 4) What will be the effect of the diurnal change of meteorological quantities on the formation of weather conditions?
- 5) Analyze the vertical structure of the wind field and determine whether it contributes to the development of deep convection. Why?
- 6) Based on the analysis of temperature and humidity stratification of the atmospheric boundary layer, determine whether there is a potential for the realization of conditional non-local instability?
- 7) Whom the weather bulletin is given to if the flight will be carried out by several aircrafts?
- 8) How in advance is the weather bulletin issued to the crew commander?
- 9) What should be the period of validity of the forecast for the flight along a certain route?