

1) Printed Reports and Forecasts

• METAR

→ is the Aviation Routine Weather Report.

The temperatures are given in degrees Celsius. The atmospheric pressure however is reported in hecto pascals everywhere, but the US where the atmospheric pressure is reported in inches of mercury.

For aviation purposes the standard temperature and atmospheric pressure are 59° F (15°C) and 29.92 in. Hg (1013.2 hPa).

Follow this link to examine a sample METAR. (ADDITION 4)

• TAF

→ is an airport forecast.

TAF forecasts ^{significant weather} significant weather, temporary, probable and expected changes in weather conditions.

Follow this link to examine a sample TAF. (ADDITION 5)

- The SA report is a ^{concise} picture of the weather on the surface where an airport weather station or other weather facility is located (station designator). This report might contain up to the 10 separate elements listed here:

- Station designator (airport or other type of aviation facility)
- Time of report and type (this could be a record observation or a special report)
- Sky condition and ceiling
- Visibility
- Weather and obstructions to vision
- Sea level pressure (in millibars)
- Temperature and dew point
- Wind information
- Altimeter setting
- Remarks and coded data

Follow this link to examine an SA report. (ADDITION 6)

- NOTAM* →
- * Notice to Airmen (NOTAM) ^{organization} may be found at the end of the SA report or is given as separate information. This report includes timely information about the aviation facility such as runway closures, obstructions in the approach and departure paths to airports, outages and operational hours of the facility.

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- * Pilot reports (PIREPs) ^{flight} These reports offer current weather conditions as reported by pilots who have just recently flown through an area. Pilots are supposed to make these reports as they keep weather information updated and assist in warning pilots in preflight of potential weather hazards along their planned route.

This report usually includes such information as

- height of cloud layers,
- in-flight visibility,
- icing conditions and turbulence,

Follow this link to examine PIREPs (ADDITION 2)

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- Radar Weather Reports (RAREPs) ^{weather} are issued by most radar stations each hour with special reports provided as needed. This report provides information regarding general areas of precipitation, noting thunderstorm activity. It also includes type of precipitation, its intensity, direction and speed of activity as well as height of rain-bearing clouds. These are transmitted over weather service circuits and can be found in Flight Service station weather broadcasts.

- Terminal Forecasts (FT) ^{organization} is one of the best sources for predicting what the weather at a particular airport (terminal) will be in the future. These forecast predictions cover an area within 5 nautical miles of the center of the runway field. FTs are usually issued 3 times a day and are valid for accuracy up to 24 hours. The first section of the FT covers the expected weather for the upcoming 18-hour period.