

METAR

The weather data is available from METAR data provided by the regional weather service. The weather data is provided in text format with the following structure:

Airport ID	Date /UTC Time	Wind Direction XXX and Wind Speed XXKTS	Visibility XX SM	Weather Condition Codes	Sky Condition Codes	Temp & Dewpoint	Altimeter Pressure	Remarks
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Example:

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KSLC 220653Z 18020G28KT 10SM -RA BKN050 OVC060 06/M01 A2957 RMK  
AO2 PK WND 18029/0556 RAB18E29B49 SLP004 P0000 T00561006  
400610006
```

- Salt Lake City
- at UTC time 22:06:53,
- Wind is blowing from 180 degrees at 20 knots, Gusting to 28 knots.
- Visibility is 10 statute miles,
- Slight rain, broken clouds at 5000 ft, overcast at 6000 ft.
- The temperature is 6 degrees Celsius, the Dewpoint is Minus 1 degree Celsius,
- the Barometric Pressure is 29.57 inches of mercury (Hg).
- Remarks: there is an automated precipitation sensors (=AO2), Peak Wind is from 180 degrees at 29 knots, Beginning of Rain (RAB)18 Ending € 29 Beginning 49, Sea-level Pressure (SLP), ...

Weather Condition Codes:

Intensity: “-“ Light, “ “ Moderate, “+“ Heavy

Qualifier: **MI** Shallow, **PR** Partial, **BC** Patches, **DR** Low Drifting, **BL** Blowing, **SH** Shower(s), **TS** Thunderstorm, **FZ** Freezing

Weather Conditions - Precipitation:

DZ Drizzle
RA Rain
SN Snow
SG Snow Grains
IC Ice Crystals
PL Ice Pellets
GR Hail
GS Small Hail and/or Snow Pellets
UP Unknown Precipitation

Weather Conditions - Obscuration:

BR Mist
FG Fog
FU Smoke
VA Volcanic Ash
DU Widespread Dust
SA Sand
HZ Haze
PY Spray

Weather Conditions - Other:

PO Well-Developed Dust/Sand Whirls
SQ Squalls
FC Funnel Cloud Tornado Waterspout (see note 3)
SS Sandstorm
SS Duststorm
+TF Tornado

Sky Condition Codes:

Cloud Coverage: FEW (1/8 TO 2/8 cloud coverage), SCT (SCATTERED, 3/8 TO 4/8 cloud coverage, BKN (5/8-7/8 coverage), and OVC (OVERCAST, 8/8 Coverage)

VV is Vertical Visibility is the how high you can see vertically into the indefinite ceiling. An indefinite ceiling caused by fog, rain, snow, etc.

Significant Clouds such as **TCU** (Towering Cumulus), **CB**, (Cumulonimbus, or a shower/thunderstorm), or **ACC** (Alto cumulus Castellanus)