



KEY to NEW INTERNATIONAL AERODROME
FORECAST (TAF) and NEW AVIATION ROUTINE
WEATHER REPORT (METAR)

TAF

KPIT 091720Z 1818 22020KT 3SM -SHRA BKN020 FM20 30015G25KT 3SM
SHRA OVC015 PROB40 2022 1/2SM TSRA OVC008CB FM23 27008KT
5SM -SHRA BKN020 OVC040 TEMPO 0407 00000KT 1SM -RA FG FM10
22010KT 5SM -SHRA OVC020 BECMG 1315 20010KT P6SM NSW SKC

METAR

KPIT 1955Z 22015G25KT 3/4SM R22L/2700FT TSRA OVC010CB 18/16 A2992

Forecast	Explanation	Report
TAF	Message type: TAF-routine and TAF AMD-amended forecast, METAR-hourly and SPECI-special report	METAR
KPIT	ICAO location indicator	KPIT
091720Z	Issuance time: ALL times in UTC "Z", 2-digit date and 4-digit time for TAF, 4-digit time for METAR	1955Z
1818	Valid period: first 2 digits begins and last 2 ends forecast	
22020KT	Wind: first 3 digits mean true-north direction, nearest 10 degrees, (or Variable); next 2 digits mean speed and unit, <u>KT</u> , (KMH or MPS); as needed, <u>Gust</u> and 2-digit maximum speed; 00000KT for calm; (for reports only, if direction varies 60 degrees or more, Variability appended, e.g., 180V260)	22015G25KT
3SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; " <u>+</u> "; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); <u>Variability</u> (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change)	R22L/2700FT
-SHRA	Significant present, forecast and recent weather: see table	TSRA
BKN020	Cloud amount, height and type: <u>Sky Clear</u> , <u>SCaTtered</u> , <u>BroKeN</u> , <u>OverCast</u> ; 3-digit height in hundreds of feet; and either <u>Towering CUmulus</u> or <u>CumulonimBus</u> . Or <u>Vertical Visibility</u> for obscured sky and height "VV004", or unknown height "VV///". More than one layer may be forecast or reported. <u>CleaR</u> for "clear below 12 thousand feet" at automated observation sites.	OVC010CB
	Temperature: in degrees Celsius; first 2 digits, temperature " <u>+</u> " last 2 digits, dew-point temperature; below zero reported with <u>Minus</u> , e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013)	A2992



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Supplementary information for report: (Wind Shear in lower layers, LandiNg or TakeOff, RunWay, 2-digit designator; REcent weather of operational significance.) ReMark: Automated Observation or AOAugmented; wind shear; recent weather and time; and TORNADO, FUNNEL CLOUD, WATERSPOUT.

FM20

From and 2-digit hour: indicates significant change

**PROB40
2022**

PROBability and 2-digit percent: probable condition during 2-digit beginning and 2-digit ending time period

**TEMPO
0407**

TEMPOrary: changes expected for less than 1 hour and in total, less than half of 2-digit beginning and 2-digit ending time period

**BECMG
1315**

BECOMiNg: change expected during 2-digit beginning and 2-digit ending time period

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUALIFIER

Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S., 5-10SM from center of runway complex (elsewhere within 8000m)

Descriptor

MI Shallow	BC Patches	DR Drifting	TS Thunderstorm
BL Blowing	SH Showers	FZ Supercooled/freezing	

WEATHER PHENOMENA

Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Diamond dust	PE Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			

Obscuration

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

Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirs
FC Funnel cloud/tornado/waterspout			

Explanations in parentheses "(" indicate different worldwide practices. Ceiling defined as the lowest broken or overcast layer, or the vertical visibility. Automated Observations may be Augmented manually for certain weather phenomena. TAFs exclude temperature, turbulence and icing forecasts and METARs exclude trend forecasts. Although not used in U.S., Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility is 10 kilometers or more; no cloud below 1500 meters (5000 feet) or below the highest minimum sector altitude, whichever is greater and no cumulonimbus; and no precipitation, thunderstorm, duststorm, sandstorm, shallow fog, or low drifting dust, sand or snow.

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UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration—National Weather Service