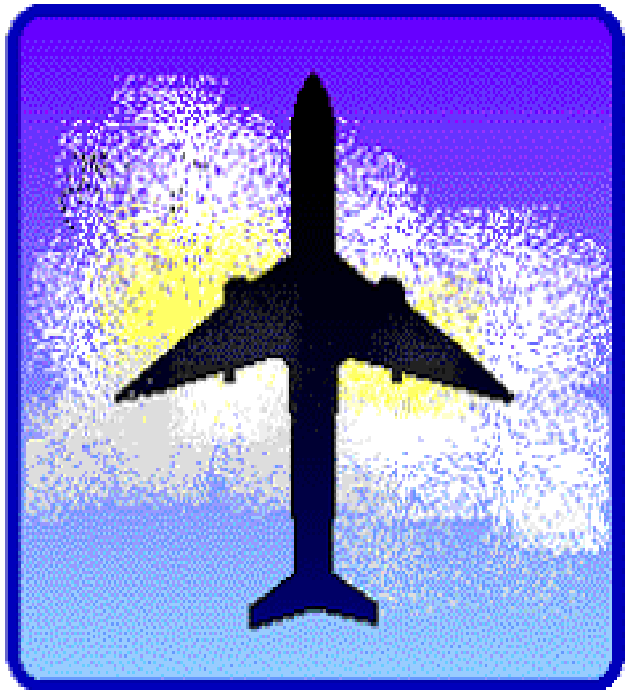


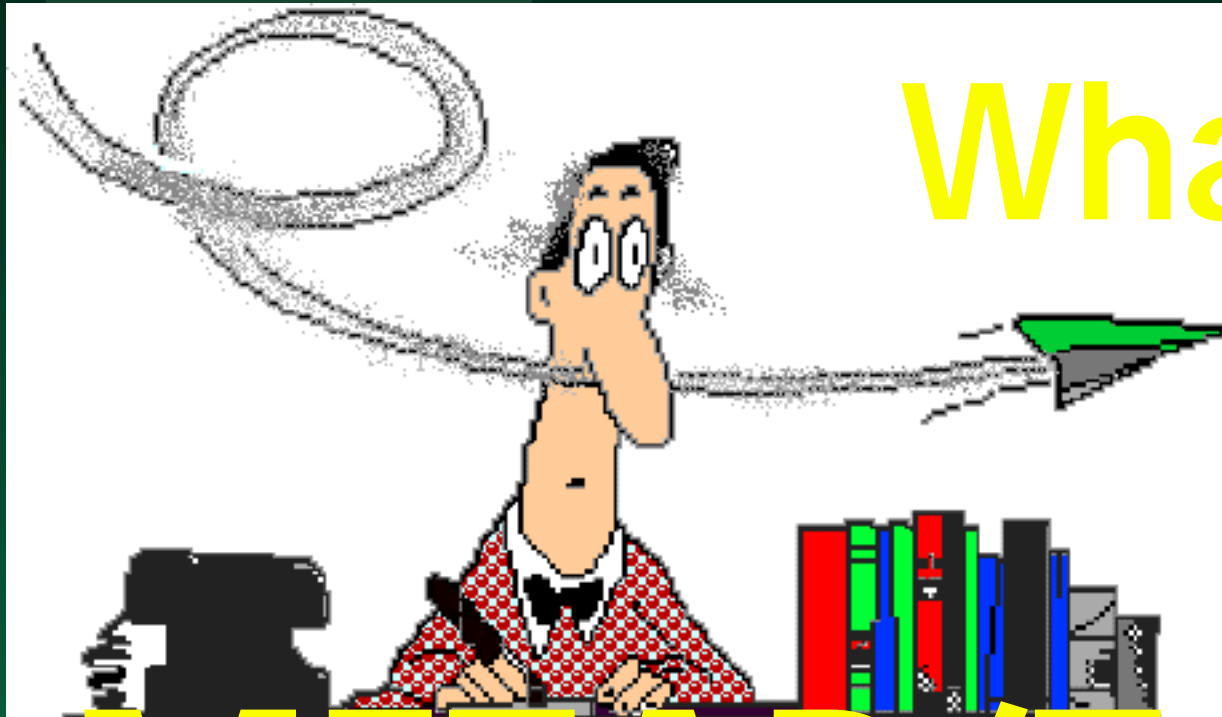
METAR
TAF



WELCOME
TO
METAR/TAF

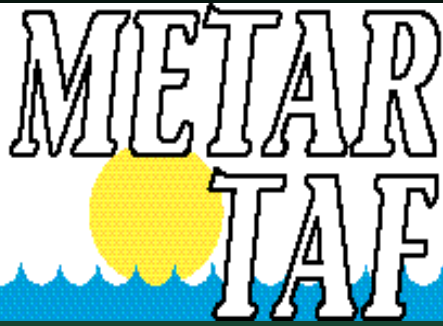
**METAR
TAF**

**WELCOME TO
METAR/TAF**



What is

METAR/TAF?



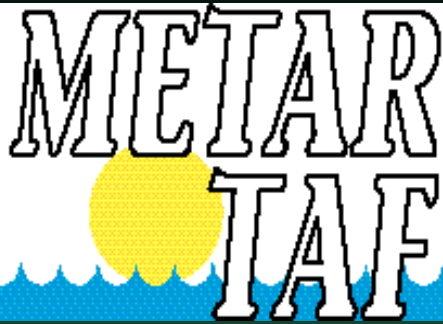
METAR
TAF

METAR

**METEOROLOGICAL AVIATION
ROUTINE WEATHER REPORT**

TAF

AERODROME FORECASTS




**METAR
TAF**

**NEW METAR/TAF CODES
BECOME EFFECTIVE**


JULY 1996

**MILITARY BASES CURRENTLY USING
SIMILAR FORMAT**

METAR

TAF

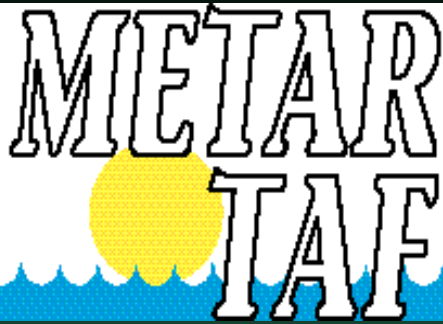
PRESENT

**PIT SA 1955 E0100VC 3/4TRW-
132/65/62/2215G25/992/
R28LRVR2600**

METAR

TAF

NEW

METAR KPIT 081955Z 22015G25KT
3/4SM R28L/2600FT -TSRA
OVC010CB 18/16 A2992



CHANGES

SIGNIFICANT CODE CHANGES FOR METAR

ORDER OF ENTRY

- SAO: SKY CON, VIS, PRESENT WX, SLP, TEMP, WIND, ALTIMETER, RMKS
- METAR: WINDS, VIS, RVR, PRES. WX, SKY COND, TEMP, ALTIMETER, RMKS


STATION IDENTIFIER

- SAO: 3-CHARACTER STATION IDENTIFIER
- METAR: 4-LETTER STATION IDENTIFIER (ICAO)

VISIBILITY:

- SUFFIXED WITH "SM" FOR STATUTE MILES

METAR TAF



RVR FOR METAR:

--MOVED FROM REMARKS SECTION TO MAIN BODY OF OBSERVATION

SKY CONDITIONS FOR METAR

- NO EXPLICIT CEILING (1ST BROKEN OR OVERCAST LEVEL IS INFERRED)**
- NO DISTINCTION BETWEEN OPAQUE AND THIN CLOUDS**
- VV INDICATES VERTICAL VISIBILITY (SURFACE-BASED OBSCURATION)**
- REPORTING UNITS CHANGED FROM TENTHS TO OKTAS (EIGHTHS)**
- NEW CATEGORY "FEW" ADDED**

SKC - SKY CLEAR (Manual Observation)

CLR - NO CLOUDS AT OR BELOW 12,000 FEET (AWOS/ASOS)


FEW - 1 TO 2 OKTAS (1 TO 25% COVERAGE)

SCATTERED - 3 TO 4 OKTAS (26 TO 50% COVERAGE)

BROKEN - 5 TO 7 OKTAS (51 TO 99% COVERAGE)

OVERCAST - 8 OKTAS (100% COVERAGE)

METAR TAF



PRESENT WEATHER FOR METAR:

--CODING & ABBREVIATION CHANGES:

TSRA vs. TRW TO INDICATE THUNDER STORMS

RA vs. R FOR RAIN


--NEW DESCRIPTOR CODES:

VC (IN THE VICINITY); MI (SHALLOW); BC (PATCHES); DR (LOW DRIFTING)

--NEW WEATHER PHENOMENA CODES:

**GR(HAIL); GS (SMALL HAIL); BR (MIST); PO (DUST-DEVILS); SQ (SQUALLS);
FC (ALL TORNADIC ACTIVITY); SS (SAND STORMS); DS (DUST STORMS)**

METAR TAF



TEMPERATURE/DEWPOINT FOR METAR:

--UNITS IN WHOLE DEGREES CELSIUS

ALTIMETRY FOR METAR:

--ALTIMETER SETTING (ALL 4-DIGITS) PREFIXED BY LETTER 'A'

EXAMPLE: A2992

--SEA LEVEL PRESSURE (IN MILLIBARS) MOVED FROM MAIN BODY OF OBSERVATION TO REMARKS SECTION

REMARKS FOR METAR:

--TRADITIONAL ADDITIVE DATA REMAINS

--ADDITIONAL GROUPS ADDED THAT METAR DOES NOT ACCOMODATE

- TEMP/DEWPOINT REFINEMENT

- SEA LEVEL PRESSURE

**METAR
TAF**

**OK, LET'S TEST FLY
METAR!**



DECODE CARD • FRONT

METAR TAF



"DRAFT" KEY to 1996 INTERNATIONAL AERODROME
FORECAST (TAF) and 1996 AVIATION ROUTINE
WEATHER REPORT (METAR)

TAF
KPIT 091720Z 091818 15005KT 5SM HZ FEW020 WS010/31022KT
 FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM TSRA OVC008CB
 FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 00000KT 1SM -RA BR
 FM1015 22005KT 5SM -SHRA OVC020 BECMG 1315 20010KT P6SM NSW SKC=
METAR
KPIT 091955Z 22015G25KT 3/4SM R28L/2600FT 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, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	AUTO amended observation (METAR only): AUTO indicates fully automated report, no human intervention; omitted when observer signs on	
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or Variable); next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed: 00000 KT for calm; for METAR , if direction varies 60 degrees or more, Variability appended, e.g. 180V260	22015G25KT
SSM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus SSM . (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R : 2-digit runway designator L eft, C enter, or R ight as needed; 7' : Minus or P lus in U.S., 4-digit value, Feet in U.S., (usually meters elsewhere); 4-digit value V ariability 4-digit value (and tendency D own, U p or N o change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKY Clear 0/8, FEW <1/8-2/8, SCaTtered 3/8-4/8, BrOkEN 5/8-7/8, OVeRcast 8/8; 3-digit height in hundreds of feet; and only Towering CU rnulus or CumulonimB us. Or Vertical Visibility for obscured sky and height "VV004", or unknown height "VV///". More than one layer may be forecast or reported. CLear for "clear below 12,000 feet" for automated observations.	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "7" last 2 digits, dew-point temperature; M inus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits: in U.S., A -inches and hundredths; (Q -hectoPascals, e.g., Q1013)	A2992

DECODE CARD • BACK

METAR TAF



**"DRAFT" KEY to 1996 INTERNATIONAL AERODROME
FORECAST (TAF) and 1996 AVIATION ROUTINE
WEATHER REPORT (METAR)**

Supplementary information for report: (Wind Shear in lower layers (METAR), and 2-digit RunWay designator or ALL runways; Recent weather of operational significance.) Remark indicator and domestic remarks stripped before international dissemination.

FM1930
TEMPO
2022
PROB40
0407
BECMG
1315


From and 2-digit hour and 2-digit minute **beginning** time: indicates significant change. Each FM starts on new line, indented 5 spaces.
TEMPO: changes expected for < 1 hour and in total, < half of 2-digit hour **beginning** and 2-digit hour **ending** time period
PROB: Probability and 2-digit percent: probable condition during 2-digit hour **beginning** and 2-digit hour **ending** time period
BECMG: change expected during 2-digit hour **beginning** and 2-digit hour **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	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing
WEATHER PHENOMENA			
Precipitation			
DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PE Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			
Obscuration			
BR Mist (>5/8SM)	FG Fog (<5/8SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust
Other			
SO Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud/tornado/waterspout			

- Explanations in parentheses () indicate different worldwide practices.
- Ceiling is not designated; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend forecasts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 1500 m (5000 ft) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, or DRDU, DRSA or DRSN.

December 1995 **National Oceanic and Atmospheric Administration—National Weather Service**
UNITED STATES DEPARTMENT OF COMMERCE

METAR

TAF

TYPE OF REPORT

METAR KPIT 081955Z 22015G25KT

3/4SM R28L/2600FT -TSRA

OVC010CB 18/16 A2992

Explanation: **Routine Hourly Observation**

METAR
TAF

TYPE OF REPORT

SPECI KPIT 081955Z 22015G25KT
3/4SM R28L/2600FT -TSRA
OVC010CB 18/16 A2992

Explanation: Special Report

METAR
TAF

LOCATION

METAR **KPIT** 081955Z 22015G25KT
3/4SM R28L/2600FT -TSRA
OVC010CB 18/16 A2992

Explanation: Reporting Point Using Four
Letters - Domestic U.S. Begins with 'K'

METAR
TAF

TIME

METAR KPIT **081955Z** 22015G25KT
3/4SM R28L/2600FT -TSRA
OVC010CB 18/16 A2992

Explanation: Observation Time


- 6 Digit Date-time in UTC (ZULU)

METAR
TAF

SURFACE WINDS

METAR KPIT 081955Z **22015G25KT**
3/4SM R28L/2600FT -TSRA OVC010CB
18/16 A2992

Explanation: Surface Winds from 220 Degrees
at 15 Knots Gusting to 25 Knots

METAR

TAF

VISIBILITY

METAR KPIT 081955Z 22015G25KT
3/4SM R28L/2600FT -TSRA
OVC010CB 18/16 A2992

Explanation: **Visibility is 3/4 STATUTE MILES -**
Note Suffix of 'SM'

METAR
TAF

RUNWAY VISUAL RANGE

METAR KPIT 081955Z 22015G25KT
3/4SM **R28L/2600FT** -TSRA
OVC010CB 18/16 A2992

Explanation: For Runway 28 Left, The RVR is
Reported as 2600 Feet

**METAR
TAF**


SIGNIFICANT WEATHER

METAR KPIT 081955Z 22015G25KT
3/4SM R28L/2600FT **-TSRA**
OVC010CB 18/16 A2992

Explanation: Thunderstorms with Light Rain at
Time of Observation

('-' Indicates Light, '+' Indicates Heavy, No Indicator
Means Moderate - Only Applies To Precipitation)

For These Codes, Refer to NOAA Decode Card,
Table of Significant Present, Forecast and Recent Weather

METAR

TAF

SIGNIFICANT WEATHER

METAR KPIT 081955Z 22015G25KT
3/4SM R28L/2600FT
FC +TSRAGR BR
OVC010CB 18/16 A2992

Explanation: For These Codes, Refer to NOAA
Decode Card, Table of Significant Present,
Forecast and Recent Weather

METAR
TAF

CLOUD COVER

METAR KPIT 081955Z 22015G25KT 3/4SM
R28L/2600FT -TSRA **OVC010CB** 18/16
A2992

Explanation: Overcast Cloud Layer at 1000
Feet with Cumulonimbus Clouds

- Only Cumulonimbus or Towering Cumulus Reported


METAR
TAF

TEMPERATURE/DEWPOINT

METAR KPIT 081955Z 22015G25KT 3/4SM
R28L/2600FT -TSRA OVC010CB 18/16
A2992

Explanation: Temperature is 18 Celsius,
Dewpoint is 16.

- Below Zero Temperatures Prefixed with an "M"
Example: "M06"


METAR

TAF

ALTIMETER SETTING

METAR KPIT 081955Z 22015G25KT 3/4SM
R28L/2600FT -TSRA OVC010CB 18/16

A2992

Explanation: Altimeter Setting - Four Digits -
'A' Prefix Indicates Inches of Mercury,
'Q' Indicates Hectopascals

METAR

TAF

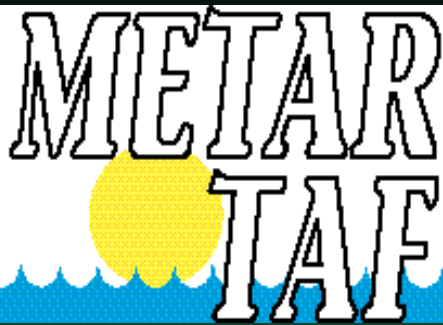
QUIZ

**METAR KATL 231250Z 00000KT
15SM SKC 26/18 A3021**

DECODE CARD

METAR TAF

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 <u>Z</u> , 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	<u>AUTO</u> mated observation (METAR only): <u>AUTO</u> indicates fully automated report, no human intervention; omitted when observer signs on	
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiAbLe</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed: 00000 <u>KT</u> for calm; for METAR, if direction varies 60 degrees or more, <u>VaRiAbLi</u> appended, e.g. 180V260	22015G25KT
SSM	Prevailing visibility: in U.S., <u>Statute Miles & Fractions</u> ; above 6 miles in <u>TAF PlusSSM</u> . (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
HZ	Runway Visual Range: <u>R</u> : 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>7</u> : <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); 4-digit value <u>VaRiAbLi</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No change</u>)	R28L/2600FT
FEW020	Significant present, forecast and recent weather: see table (on back)	TSRA
	Cloud amount, height and type: <u>SKY Clear</u> 0/8, <u>FEW</u> <1/8-2/8, <u>ScAtTered</u> 3/8-4/8, <u>BrOkEn</u> 5/8-7/8, <u>OverCast</u> 8/8; 3-digit height in hundreds of feet; and only <u>Towering Cumulus</u> or <u>CumulonimBus</u> . Or <u>Vertical Visibility</u> for obscured sky and height "V004", or unknown height "VV///". More than one layer may be forecast or reported.	OVC010CB
	<u>Clear</u> for "clear below 12,000 feet" for automated observations.	A2992
	Temperature: degrees Celsius; first 2 digits, temperature <u>7</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	18/16
	Allimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; (<u>Q</u> -hectoPascals, e.g., Q1013)	



DECODE CARD QUALIFIERS

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	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

WEATHER PHENOMENA

Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PE Ice pellets	GR Hail	GS Small hail/snow pellets


UP Unknown precipitation in automated observations

Obscuration

BR Mist ($\geq 5/8$ SM)	FG Fog ($< 5/8$ SM)	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 whirls
FC Funnel cloud/tornado/waterspout			

METAR

TAF

QUIZ

**METAR CYUL 231050Z 31015G27KT
280V350 1400SW 6000N R24/P1500
+SHRA SCT005 SCT010CB BKN018
OVC025 10/03 Q0995 RMK RETS WS
TKOF RWY24 T00960027 10142 20012**

METAR

TAF

QUIZ

**METAR KHEF 180752Z AUTO
30008KT 10SM CLR 22/10 A3010
RMK A02 SLP138 T02180096**

METAR
TAF

NEW TAF FORMAT

Attention

On Deck ...

New Incoming!!!

METAR TAF

PLANNING A NEW FLIGHT?




YOU NEED TO CHECK THE FORECASTS!!!

ΜΕΤΑΡ
ΤΑΡ

NEW TAF FORMAT

ΚΠΙΤ 091720Z 091818 22020KT 3ΣΜ –ΣΗΡΑ
ΒΚΝ020 ΦΜ20 30015Γ25KT 3ΣΜ ΣΗΡΑ ΟςΧ015
ΠΡΟΒ40 2022 1/2ΣΜ ΤΣΡΑ ΟςΧ008ΧΒ ΦΜ23
27008KT 5ΣΜ –ΣΗΡΑ ΒΚΝ020 ΟςΧ040 ΤΕΜΠΟ
0407 00000KT 1ΣΜ –ΡΑ ΦΓ ΦΜ10 22010KT 5ΣΜ
–ΣΗΡΑ ΟςΧ020 ΒΕΧΜΓ 1315 20010KT Π6ΣΜ
ΝΣΩ ΣΚΧ

METAR

TAF

NEW TAF FORMAT

TAF

**KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB
FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR
FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC**

METAR
TAF

NEW TAF FORMAT

It's

SIMPLER

than it looks!!!

TAF

KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TS OVC008 B
FM2300 2700 3SM -SHRA BKN020 OVC040
TEMPO 0407 0000KT 1SM -RA BR
FM1000 22010KT 5SM -SHRA OVC020 BECMG
1502010KT 3SM -SHRA OVC020

METAR
TAF

NEW TAF FORMAT

THE SECRET:

Break it down

by time frames!


METAR
TAF

TIME FRAMES

HOW TO IDENTIFY THE TIME FRAMES:

FM2000 - FroM and 4-digit time: indicates significant change.

PROB40 2022 - PROBability and 2-digit suffix: probable condition between 2-digit beginning and 2-digit ending times.

METAR

TAF

TIME FRAMES

HOW TO IDENTIFY THE TIME FRAMES:

TEMPO 0407 - TEMPOrary; changes expected for less than 1 hour in each instance, and in total, less than 1/2 of the 2-digit beginning and 2-digit ending time period.

BECMG 1315 - BECoMinG; change expected between 2-digit beginning and 2-digit ending times.

METAR
TAF

LOCATION AND VALID TIMES

TAF

KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB
FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR
FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC

METAR
TAF

LOCATION AND VALID TIMES

KPIT 091720Z 091818


Explanation: Pittsburgh, PA, Terminal
Forecast issued on the 9th at 1720Z and
valid from the 9th starting at 1800Z until
the 10th at 1800Z

METAR
TAF

FIRST TIME FRAME

TAF

KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB
FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR
FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC

METAR

TAF

FIRST TIME FRAME

091818 22020KT 3SM -SHRA BKN020

Explanation: From the Beginning of the Forecast Period (1800Z) until the Next Time Frame, the Forecast Reads Winds 220 Degrees at 20 Knots, Visibility 3 Statute Miles in Light Rain Showers with a Broken Ceiling at 2000 Feet.

METAR
TAF

SECOND TIME FRAME

TAF

KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020


FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB

FM2300 27008KT 5SM -SHRA BKN020 OVC040

TEMPO 0407 00000KT 1SM -RA BR

FM1000 22010KT 5SM -SHRA OVC020 BECMG


1315 20010KT P6SM NSW SKC

METAR

TAF

SECOND TIME FRAME

FM2000 30015G25KT 3SM SHRA OVC015
PROB40 2022 1/2SM TSRA OVC008CB

**Remember time frames?
There are two within this
example.**

METAR

TAF

SECOND TIME FRAME

FM2000 30015G25KT 3SM SHRA OVC015
PROB40 2022 1/2SM TSRA OVC008CB


Explanation: The First Part, from 2000Z until the next Time Frame, Forecasts Winds from 300 Degrees at 15 Knots Gusting to 25 Knots, Visibility 3 Statute Miles in Moderate Rain Showers with an Overcast Ceiling at 1500 Feet, but ...

METAR
TAF

SECOND TIME FRAME

FM2000 30015G25KT 3SM SHRA OVC015
PROB40 2022 1/2SM TSRA OVC008CB

Explanation: ...the Second Part Says that between 2000Z and 2200Z, the Forecast is for a Good Probability of (Chance of) the Visibility Decreasing to 1/2 Statute Mile in Thunderstorms and Moderate Rain with the Ceiling Lowering to 800-Feet, including Cumulonimbus Clouds.

METAR

TAF


THIRD TIME FRAME

TAF

**KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB**

**FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR**

**FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC**

METAR

TAF

THIRD TIME FRAME

FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR


**Remember time frames?
There are two within this
example, also.**

METAR
TAF

THIRD TIME FRAME

FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR


Explanation: From 2300Z until 1000Z (Next Time Frame) the winds are expected to be from 270 Degrees at 8 Knots, Visibility 5 Statute Miles in light Rain Showers, with a Broken Ceiling at 2000 Feet and an Overcast Layer at 4000 Feet, but...

METAR

TAF

THIRD TIME FRAME

FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR

Explanation: ...Between 0400Z and 0700Z the Forecast calls for Temporarily (Occasionally) Calm Winds, Visibility Decreasing to 1 Statute Mile in Light Rain and Mist.


METAR

TAF

FOURTH TIME FRAME

TAF

**KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020
FM2000 30015G25KT 3SM SHRA OVC015 PROB40
2022 1/2SM TSRA OVC008CB
FM2300 27008KT 5SM -SHRA BKN020 OVC040
TEMPO 0407 00000KT 1SM -RA BR**


**FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC**

METAR

TAF

FOURTH TIME FRAME

FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC

**Remember time frames?
There are two within this
example, also.**


METAR

TAF

FOURTH TIME FRAME

**FM1000 22010KT 5SM -SHRA OVC020 BECMG
1315 20010KT P6SM NSW SKC**

Explanation: From 1000Z (until 1300Z) the Forecast calls for Winds from 220 Degrees at 10 Knots, Visibility 5 Statute Miles in Light Rain Showers with an Overcast Ceiling at 2000 Feet.

(Notice -- No CB or TCU type clouds present)


METAR

TAF

FOURTH TIME FRAME

FM1000 22010KT 5SM -SHRA OVC020 **BECMG**
1315 20010KT P6SM NSW SKC

Explanation: Between 1300Z and 1500Z, the Forecast Calls for Surface Winds from 220 Degrees at 10 Knots, Visibility more than 6 Statute Miles, no Significant Weather expected with Clear Skies.


**METAR
TAF**



**ADDITIONAL
INFORMATION**

**TAF's Exclude Temperature,
Turbulence and Icing Forecasts**

TAF AMD - Amended Forecast

METAR

TAF

NEW TERMS/ CONTRACTIONS

NSW - No Significant Weather

SKC - Clear Skies

Note: CLR is never used in TAF's

**VC - Vicinity, but not at Aerodrome;
in U.S. 5-10 Statute Miles from
center of runway complex.**

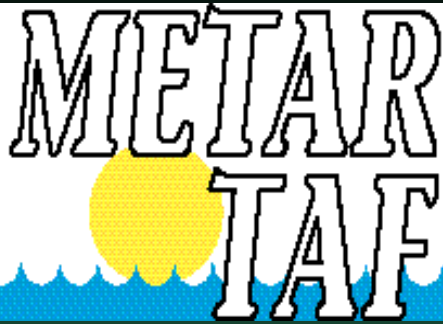
METAR TAF

SELF QUIZ

1. METAR KPHL 081550Z 24007KT 7SM BKN009 OVC020 18/16 A3005
2. METAR KLAX 151550Z 21008KT 1/2SM R14/3500V5500FT FG OVC003 14/14 A3018
3. SPECI KACY 231545Z 00000KT 1 1/4SM -SHSN BKN006 OVC010 M03/M03 A2942
RMKS SB30
4. METAR KBUF 061549Z 35015G27KT 1/4SM BLSN R31/1200FT VV003 01/M01 A3013
5. METAR KBOS 301549Z 15012KT 6SM -RASN SCT004 BKN009 OVC015 02/M01
A2949 RMKS PRESFR
6. METAR KBWI 111550Z 09008KT 3/4SM R10/3800FT -FZDZ PE OVC008 M01/M01
A2990

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TAF KJFK 251720Z 251818 21007KT 5SM -SHRA BKN030 OVC080
FM2200 33015G25KT P6SM BKN030 BKN080 PROB40 2301 1SM TSRA
FM0500 32005KT P6SM SCT050 SCT100 TEMPO 0709 00000KT 1SM BR
FM1200 33010KT 4SM BR HZ BECMG 1416 30010KT P6SM NSW SKC



CREDITS

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RAY DOWNS

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NATIONAL WEATHER SERVICE

METAR
TAF

BYE... BYE!!!

*That's all folks!!!
Let's get out of here!*

