METAR /TAF Abbreviations / Cloud Types

Α	Hail
ABM	Abeam
ABV	Above
AC	Altocumulus
ACCAS	Altocumulus castellanus
ACCUM	Altocumulate
ACLD	Above clouds
ACSL	Standing lenticular altocumulus
ACTV	Active
ACYC	Anticyclonic
ADDN	Addition
ADRNDCK	Adirondack
ADVCTN	Advection
ADVY	Advisory
AFDK	After Dark
AFT	After
AFTN	Afternoon
AGL	Above Ground Level
AGN	Again
AHD	Ahead
AIREP	Air Report
AIRMET	Airmen's Meteorological Info
ALF	Aloft
ALG	Along
ALGHNY	Allegheny
ALQDS	All quadrants
ALSTG	Altimeter setting
ALTA	Alberta
ALUTN	Alleutian
AMD	Amended forecast
AMDT	Amendment

AMOS Air mass ANLYS Analysis AO1 Automated observation with no precip discriminator (rain/snow) AO2 Automated observation with precip discriminator (rain/snow) AOA At or above AOB At or below AP Anomalous propagation APCH Approach APRNT Apparent AS Altostratus ASOS Automated surface observing system ATLC Atlantic ATTM At this time AURBO Aurora Borealis AUTOB Automatic weather reporting system B Beginning of precipitation (time in minutes (wx reports only) BACLIN Baroclinic prognosis BC British Columbia BCFG Fog patches BCMG Become (becoming) BD Blowing dust (wx reports only) BFDK Before dark BINOVC Breaks in overcast		
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AO1 Automated observation with no precip discriminator (rain/snow) AO2 Automated observation with precip discriminator (rain/snow) AOA At or above AOB At or below AP Anomalous propagation APCH Approach APRNT Apparent AS Altostratus ASOS Automated surface observing system ATLC Atlantic ATTM At this time AURBO Aurora Borealis AUTOB Automatic weather reporting system AWOS Automatic weather observing system B Beginning of precipitation (time in minutes (wx reports only) BACLIN Baroclinic prognosis BATROP Barotropic or barotropic prognosis BC British Columbia BCFG Fog patches BCM(G) Become (becoming) BD Blowing dust (wx reports only) BFDK Before dark	AMS	Air mass
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BCFG Fog patches BCKG Backing BCM(G) Become (becoming) BD Blowing dust (wx reports only) BFDK Before dark	BATROP	Barotropic or barotropic prognosis
BCKG Backing BCM(G) Become (becoming) BD Blowing dust (wx reports only) BFDK Before dark	BC	British Columbia
BCM(G) Become (becoming) BD Blowing dust (wx reports only) BFDK Before dark	BCFG	Fog patches
BD Blowing dust (wx reports only) BFDK Before dark	BCKG	Backing
BFDK Before dark	BCM(G)	Become (becoming)
	BD	Blowing dust (wx reports only)
BINOVC Breaks in overcast		Before dark
	BINOVC	Breaks in overcast

Broken
Build up
Black Hills
Below
Blowing sand (wx reports only)
Boundary
Base of overcast
Braking action fair
Braking action good
Braking action nil
Braking action poor
Brief
Berkshire
Blowing snow (wx reports only)
Between
Blowing spray (wx reports only)
Clear above (PIREP only)
Canada
Caribbean
Cascades
Ceiling and visibility OK
Ceiling and visibility unlimited
Cumulonimbus
Cumulonimbus mammatus
Cirrocumulus
Standing lenticular cirrocumulus
Cold Front
Cold front passage
Chance
Chance Chesapeake

CLD	Cloud
CLR	Clear
CAS	Clear and smooth
CNL	Cancel
CNDN	Canadian
CNTRL	Central
CNVG	Converge
CNVTV	Convective
CONT-DVD	Continental Divide
CONTRAILS	Condensation trails
CS	Cirrostratus
CST	Coast
CTGY	Category
CTSKLS	Catskills
CU	Cumulus
CUF	Cumuliform
CUFRA	Cumulus fractus
CYC	Cyclonic
CYCLGN	Cyclogenesis
D	Dust (wx reports only)
DABRK	Daybreak
DALGT	Daylight
DCAVU	Clear or scattered cloud and vis greater than 10, remainder or report missing (wx reports only)
DCR	Decreased
DIAM	Diameter
DKTS	Dakotas
DMSH	Diminish
DNS	Dense
DNSLP	Downslope
	-

DNSTRM	Downstream
DP	Deep
DPNG	Deepening
DPTH	Depth
DRFT	Drift
DRZL	Drizzle
DSIPT	Dissipate
DSNT	Distant
DTRT	Deteriorate
DRG	During
DWNDFTS	Downdrafts
DWPNT	Dew point
E	Ending of precipitation (time in minutes)(wx reports only)
E	Equatorial (air mass)
Е	Estimated (wx reports only)
ELNGT	Elongate
EMBDD	Embedded
ENRT	Enroute
ENTR	Entire
ERY	Early
EVE	Evening
EXCP	Except
EXPC	Expect
EXTRM	Extreme
F	Fog (wx reports only)
FA	Area Forecast
FAH	Farenheit
FAX	Facsimile
FIBI	Filed but impracticable to transmit
FINO	Wx report will not be filed for transmission

FLG	Falling
FLRY	Flurry
FNT	Front
FNTGNS	Frontogenesis
FNTLYS	Frontolysis
FORNN	Forenoon
FRMG	Forming
FROPA	Frontal passage
FRST	Frost
FRZ	Freeze
FRZLVL	Freezing level
FRZN	Frozen
FZRANO	Freezing rain sensor not
	operating
FT	Terminal Forecast
G	Gusts reaching (knots)(wx reports only)
GF	Ground fog (wx reports only)
GFDEP	Ground fog estimated (feet) deep
GICG	Glaze icing
GLFALSK	Gulf of Alaska
GLFCAL	Gulf of California
CLFMEX	Gulf of Mexico
GLFSTLAWR	Gulf of St. Lawrence
GNDFG	Ground Fog
GRAD	Gradient
GRTLKS	Great Lakes
GSTS	Gusts
GSTY	Gusty
Н	Haze (wx reports only)
HCVIS	High clouds visible
HDEP	Haze layer estimated (feet) deep
HDSVLY	Hudson Valley

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HI	High
HLSTO	Hailstones
HLYR	Haze layer aloft
HURCN	Hurricane
HVY	Heavy
IC	Ice crystal
ICG	Icing
ICGIC	Icing in clouds
ICGICIP	Icing in clouds and precipitation
ICGIP	Icing in precipitation
IF	Ice fog
IFR	Instrument flight rules
INCR	Increase
INDC	Indicate
INDEF	Indefinite
INLD	Inland
INSTBY	Instability
INTR	Interior
INTR- MTRGN	Inter-mountain region
INTS	Intense
INTST	Intensity
INVRN	Inversion
IOVC	In overcast
IP	Ice pellets (wx reports only)
IR	Ice on runway
JTSTR	Jetstream
K	Smoke
KDEP	Smoke layer estimated (feet) deep
KLYR	Smoke layer aloft
KOCTY	Smoke over city
L	Drizzle (wx reports only)

LABRDR	Labrador
LFT	Lift
LGT	Light
LIFR	Low IFR (wx reports only)
LK	Lake
LSR	Loose snow on runway
LST	Local Standard Time
LTGCA	Lightning cloud to air
LTGCC	Lightning cloud to cloud
LTGCCCG	Lightning cloud to cloud, cloud to ground
LTGCG	Lightning cloud to ground
LTGCW	Lightning cloud to water
LTGIC	Lightning in clouds
LTLCG	Little change
LTNG	Lightning
LYR	Layer or layered or layers
М	Measured ceiling (wx reports only)
М	Missing (wx reports only)
MAN	Manitoba
MDT	Moderate
METAR	Scheduled aviation observation
MEX	Mexico
MHKVLY	Mohawk Valley
MIDN	Midnight
MIFG	Patches of shallow fog not deeper than 2 meters
MLTLVL	Melting level
MNLD	Mainland
MOGR	Moderate or greater
MOV	Move
MRGL	Marginal
MRNG	Morning

MRTM	Maritime
MSTLY	Mostly
MTN	Mountain
MVFR	Marginal VFR
NB	New Brunswick
NEW ENG	New England
NFLD	Newfoundland
NGT	Night
NOSPL	No special observations taken
NC	(wx reports only)
NS NS	Nimbostratus Nova Scotia
NVA NVA	
	Negative vorticity advection
OBS	Observation
OBSC	Obscure
OCFNT	Occluded front
OCLD	Occlude
OCLN	Occlusion
OFP	Occluded frontal passage
OFSHR	Offshore
OMTNS	Over mountains
ONSHR	On shore
ONT	Ontario
ORGPHC	Orographic
OTAS	On top and smooth
OTLK	Outlook
OVC	Overcast
OVR	Over
PAC	Pacific
PCPN	Precipitation
-	Priority Delayed Weather
PDW	Thority Delayed Wedther

PGTSND	Puget Sound
PIBAL	Pilot balloon observation
PK WND	Peak wind (wx report only)
PNHDL	Panhandle
PNO	Rain gauge not operating
PPINA	Radar weather report not available or omitted
PPINE	Radar weather report no echoes observed
PPINO	Radar weather report equipment inoperative due to breakdown
PPIOK	Radar weather report equipment operation resumed
PPIOM	Radar weather report equipment inoperative due to maintenance
PRBLTY	Probability
PRESFR	Pressure falling rapidly
PRESRR	Pressure rising rapidly
PRJMP	Pressure jump (wx reports only)
PROG	Prognosis or prognostic
PSR	Packed snow on runway
PTCHY	Patchy
PTLY	Partly
PVA	Positive vorticity advection
PWINO	Precipitaion identifier information not available (wx reports only)
Q	Squall (wx reports only)
QSTNRY	Quasistationary
QUE	Quebec
R	Rain (wx reports only)
RADAT	Radiosonde observation data
RAOB	Radiosonde observation
RCKY	Rocky Mountains
RDG	Ridge

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Daggad
Ragged
Radar echo height information not available
Radar range height indicator
not operating on scan
Rio Grande
Rainfall
Radar operating below
prescribed standard
Rapid
Rising
Rough
Runway visual range missing
Rain shower (wx reports only)
Snow (wx reports only)
Saskatchewan
Supplementary Aviation
Weather Reporting System
Stratocumulus
Stratocumulus standing lenticular
Scattered
Severe local storms
Atmospherics
Snow grains (wx reports only)
Shift (wx reports only)
Shallow
Shower
Sierra Nevada
Snow and ice on runway
Unscheduled aviation
observation
Sea level pressure
Can laval augenous and
Sea level pressure not available
•
available

Terminal Doppler Weather Radar
Temperature
Thunder
Through
Throughout
Thousand
Until
Tomorrow
Tonight
Cloud top
Top of overcast
Topping
Trough
Tropopause
Tropical
Terrain
Thundershower
Lightning sensor not available
Thunderstorm
Turbulence
Turbulence
Toward
Tower
Towering
Typhoon
Intensity unknown (wx reports only)
Routine PIREP
Up and down drafts
Unstable
Unsteady
Upper

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UTC	Universal coordinated time			
UUA	Urgent PIREP			
٧	Variable (wx reports only)			
VCSH	Showers in vicinity			
VCTY	Vicinity			
VFR	Visual flight rules			
VLY	Valley			
VRBL	Variable			
VSBY	Visibility			
WDLY	Widely			
WEA	Weather			
WFP	Warm front passage			
WK	Weak			
WKN	Weaken			
WL	Will			

WND	Wind
WRM	Warm
WRMFNT	Warm front
WRNG	Warning
WSHFT	Wind shift
WW	Severe weather forecast
WX	Weather
X	Obscured sky condition
XCP	Except
YDA	Yesterday
Z	UTC
ZRNO	Freezing rain information not available (wx reports only)

WEATHER REPORT DECODING

METAR TAF

METAR (Meteorological Aerodrome Report)

11006 21017 53016

Examples:

KMEM 230853Z AUTO 18014G18KT 10SM CLR 16/M02 A3008 RMK AO2 SLP117 T01561022 TSNO \$ KLAX 161550Z COR 11004KT 2 1/2SM HZ BKN011 BKN015 19/16 A2993 RMK AO2 SLP134 VIS SW-NW 1 1/2 FG BNK SW-NW T01890156 KEWR 160128Z 18008KT 2 1/2SM R04R/4500VP6000FT RA BR SCT008 BKN022 OVC038 22/21 A3001 RMK AO2 RAB20E51 SCT008 V BKN P0008

BKN022 OVC038 22/21 A3001 RMK AO2 RAB20E51 SCT008 V BKN P0008 KBIL 162256Z 29017G27KT 10SM FEW070 SCT085 BKN110 M02/M02 A2961 RMK AO2 PK WND 29027/2250 WSHFT 2241 SLP205 70033 T10171022

KGTF 170322Z 33014KT 1 3/4SM -SN BR OVC005 A2991 RMK A02 RAE17SNB17 P0004

KGTF 170253Z 33013KT 3SM -RA OVC005 02/02 A2990 RMK A02 TWR

VIS 3 SFC VIS 8 CIG 003V007 SLP147 P0000 60011 T00220017 51035 KABQ 100156Z 32010KT 280V340 10SM TS FEW033 BKN075CB OVC100 19/14

A2999 RMK AO2 TSB09RAB09E56 SLP085 FREQ LTGCCCGIC OHD TS OHD MOV NE MTN TOP OBSCD NE P0002 T01940144

SVVA 171100Z 00000KT 9999 FEW016 BKN250 21/19 Q1013 NOSIG

КМЕМ	4-letter ICAO location indicator				
230853	Date and Time of observation followed by Z (Zulu)				
AUTO	Included if METAR is from an automatic, e.g. ASOS station				
COR	Correction to observation (CCA for Canada)				
18014G18	Wind direction in tens of degrees, VRB means variable; if direction +/- 60 deg, wind shown as 180V260				
	Wind speed in knots, meters per second, or kilometers per hour				
	Wind gusts in knots, meters per second, or kilometers per hour				
9999	Visibility in meters				
10SM	Visibility in statute miles (U.S.)				
R04R4500VP6000FT	Runway 4R RVR Runway visual range in meters (feet for the U.S.) Range value may be followed by a trend (D - down, U - up, N - no change, V - variable) for non-U.S. stations				
RA	Weather and/or obstruction to visibility (see <u>table</u>)				

SCT008CB	Cloud cover - SKC (sky clear) or CLR (clear below 12,000 feet for automatic stations),
	FEW (1-2 octas), SCT (3-4 octas), BKN (5-7 octas), or OVC (8 octas)
	3-digit cloud height in hundreds of feet; obscured sky given as VV (vertical visibility), height in hundreds of feet; unknown height reported as ///; more than one layer may be reported
	Cloud type, TCU (towering cumulus), CB (cumulonimbus), CBMAM (cb mammatus)
16	Temperature in degrees Celsius
M02	Dew point in degrees Celsius
Q1016	Altimeter setting (mb or hP)
A3008	Altimeter setting (in Hg)(U.S. only)
RMK	Remarks consisting of recent operationally significant weather as well as additive
	and automated maintenance data (mainly used in the U.S. and Canada) See <u>table</u> below.
=	Denotes end of report

TAF (Terminal Aerodrome Forecast) FedEx Terminal Forecast (FT)

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Examples:

KPIT 091720Z 091818 22020KT 3SM -SHRA BKN020CB

FM2000 30015G25KT 1SM SHRA OVC15CB PROB40 2022 1/2SM TSRA
OVC008CB

FM2300 27008KT 5SM -SHRA BKN020 OVC040 WS010/30020KT

TEMPO 0407 0000KT 1SM -RA BR

FM1000 22010KT 5SM -SHRA OVC020 BECMG 1315 20010KT 7SM NSW SKC=

EWR FT FEDEX 2900Z-2912Z 290046Z ABV 2000/3 OCNL 6 BKN

3SM -SHRA BR, VCTS 1215

02Z 6 OVC OCNL 4 BKN 2SM -RA BR

04Z 4 OVC 3SM BR OCNL 11/2SM -RA BR

06Z 5 OVC 3SM BR

08Z 12 BKN 3SM BR

10Z -X 2SM BR * =
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KPIT	Station identifier. The TAF code uses ICAO 4-letter station identifiers. FedEx forecasts
EWR	use 3-letter identifiers
FT FEDEX AMD01	FedEx weather department terminal forecast, amendment 1

091720Z	Issuance time. 2-digit Date and and 4-digit zulu Time.
091818 2900Z-2912Z	Valid date and time. '091818' means a 24 hour forecast valid from 1800Z on the 9th until 1800Z the following day. Valid from the 29th 0000Z to 1200Z (FedEx)
22020KT 1215	Wind. First 3 digits mean true north direction (nearest 10 deg) or VRB for variable. The next two digits mean speed and unit (KT for knots, KMH for kilometers per hour, or MPS for meters per second). Wind gust, as needed, is given as a 2-digit maximum speed. 00000KT is given for calm. If wind direction varies 60 degrees or more, variability is appended, e.g. 180V260. In FedEx forecast, direction is 2-digit, velocity is always in knots.
3SM	Visibility. In the U.S., prevailing visibility is given in statue miles and fractions (SM). Outside the U.S., 4-digit sector visibility in meters is given and as required, differing in value with direction.
-SHRA	Weather. Weather and/or obstruction to visibility given in code (see <u>table</u> below).
BKN020CB 12 BKN	Cloud amount. Cloud amount is given as SKC (sky clear), FEW (1-2 octas), SCT (3-4 octas), BKN (5-7 octas), or OVC (8 octas). The cloud height is given in hundreds of feet. Clouds types reported are either TCU (towering cumulus) or CB (cumulonimbus). An obscured sky is reported as VV (vertical visibility) with height in hundreds of feet. (FedEx forecast uses X for sky obscured, or -X for partially obscured.) An unknown height is reported as ////. More than one layer may be forecasted or reported.
FM2000 06Z	Condition start time. Start time of a weather event is given as FM (from) followed by the 4-digit hour and minutes in Zulu time. FedEx forecast use only 2-digit start hour and no FM.
PROB40 2022	Probability. The probability of a weather event occurring is given in percent along with the 2-digit Zulu hour start and end of the event.
TEMPO 0407	Temporary. Temporary changes in weather conditions are given along with the 2-digit Zulu hour start and end of the event. This signals changes to the forecast.
BECMG 1315	Becoming. What condtions will become between the two 2-digit Zulu hours given. This signals changes to a forecast.
WS010/30020KT	Forecast of non-convective low-level wind shear. This group will only be given in the U.S. (following the Cloud group) and Canada (following the wind group).

*	Denotes included on Maintenance/Crew Scheduling IFR alert report
=	Denotes end of report

QUALIFIER		WEATHER PHENOMENA		
Intensity or Proximity 1	Descriptor 2	Precipitation 3	Obscuration 4	Other 5
- Light	MI Shallow	DZ Drizzle	BR Mist	PO Well- Developed
Moderate (see	PR Partial	RA Rain	FG Fog	Dust/Sand Whirls
note 2)	BC Patches	SN Snow	FU Smoke	SQ Squalls
+ Heavy	DR Low Drifting	SG Snow Grains	VA Volcanic Ash	FC Funnel Cloud Tornado
VC In the vicinity	BL Blowing	IC Ice Crystals	DU Widespread	Waterspout (see note 3)
(see note 3)	SH Shower(s)	PL Ice Pellets	Dust	SS Sandstorm
	TS	GR Hail	SA Sand	SS Duststorm
	Thunderstorm	GS Small Hail and/or	HZ Haze	
	FZ Freezing	Snow Pellets	PY Spray	
		UP Unknown		
		Precipitation		

- 1. The weather groups shall be constructed by considering columns 1 to 5 in the table above in sequence, i.e. intensity, followed by description, followed by weather phenomena, e.g. heavy rain shower(s) is coded as +SHRA
- 2. To denote moderate intensity no entry or symbol is used.
- **3.** Tornados and waterspouts shall be coded as +FC.

Automated, Manual, and Plain Language AO1, AO2 Type of automated station PK WND 29027/2250 Peak Wind 290/27 at 2250Z WSHFT 2241 FROPA Wind Shift at 2241Z cold front passage WS010/30020KT Wind Shear (non-convective) at 1,000 ft 300 deg at 20 kt

Tower Visibility			
Surface Visibility			
Variable Prevailing Visibility			
Sector Visibility			
Lightning, type direction			
Rain began at 20 ended at 51			
Thunderstorm began 09 rain began 09 ended 56			
Thunderstorm location, movement			
Hailstone size			
Virga, direction			
Variable Ceiling Height (300 variable 700)			
Obscurations (>50% of sky obscured by smoke)			
Variable Sky Condition			
Significant Cloud Types			
Pressure Rising/Falling Rapidly			
Sea-level Pressure (1011.7 mb)			
Aircraft mishap			
No SPECI reports taken			
Snow increasing rapidly (2 in last hour/10 in on ground)			
Additive Data			
Leading character indicates type of data			

Hourly Precipitation Amount in hundreths of inches (0.08)				
Hourly temperature and dew point in tenths degrees C (21.7/14.4)				
(-2.7/-3.2) 1=minus sign				
6-hour maximum temperature in tenths degrees C (27.2)				
6-hour minimum temperature in tenths degrees C (21.1)				
Snow depth on the ground in inches				
24-hour max/min temperature in tenths degrees C				
3-hour pressure tendency (3.2 mb change) (see <u>table</u> below for 2nd digit code)				
3- and 6-hour precipitation amount				
24-hour precipitation amount				
Cloud Types (low, med high level)				
Water equivalent of snow on ground (0.01)				
Duration of sunshine in minutes				
Automated Maintenance Data				
RVRNO: RVR missing;				
PWINO : precipitation identifier information not available;				
PNO: precipitation amount not available;				
FZRANO: freezing rain information not available;				
TSNO: thunderstorm information not available (may indicate				
augmenting weather observer not logged on);				
VISNO [LOC]: visibility at second location not available, e.g. VISNO RWY06;				
CHINO [LOC]: (cloud-height- indicator) sky condition at secondary				
location not available, e.g., CHINO RWY06.				
Maintenance check indicator ASOS requires maintenance				

Characteristics of Barometer Tendency			
Primary Description Requirement			
	Increasing, then decreasing.	0	
Atmospheric pressure now	Increasing, then steady, or increasing then increasing more slowly.	1	
HIGHER than 3 hours ago.	Increasing steadily or unsteadily.	2	
	Decreasing or steady, then increasing; or increasing then increasing more rapidly.	3	
Atmospheric pressure now	Increasing, then decreasing.	0	
SAME as 3 hours ago.	Steady	4	
	Decreasing then increasing.	5	
	Decreasing, then increasing.	5	
Atmospheric pressure now LOWER	Decreasing, then steady, or decreasing then decreasing more slowly.	6	
than 3 hours ago.	Decreasing steadily or unsteadily.	7	
	Steady or increasing, then decreasing; or decreasing then decreasing more rapidly.	8	