METAR/TAF LIST OF ABBREVIATIONS AND ACRONYMS

\$	maintenance check indicator	-	light intensity	
+	heavy intensity	/	indicator that visual range data follows; separator between temperature and dew point data.	
ACC	altocumulus castellanus	ACFT MSHP	aircraft mishap	
ACSL	altocumulus standing lenticular cloud	AO1	automated station without precipitation discriminator	
AO2	automated station with precipitation discriminator	ALP	airport location point	
APCH	approach	APRNT	apparent	
APRX	approximately	ATCT	airport traffic control tower	
AUTO	fully automated report	В	began	
BC	patches	BKN	broken	
BL	blowing	BR	mist	
C	center (with reference to runway designation)	CA	cloud-air lightning	
СВ	cumulonimbus cloud	CBMAM	cumulonimbus mammatus cloud	
CC	cloud-cloud lightning	CCSL	cirrocumulus standing lenticular cloud	
cd	candela	CG	cloud-ground lightning	
CHI	cloud-height indicator	CHINO	sky condition at secondary location not available	
CIG	ceiling	CLR	clear	
CONS	continuous	COR	correction to a previously disseminated observation	
DOC	Department of Commerce	DOD	Department of Defense	
DOT	Department of Transportation	DR	low drifting	
DS	duststorm	DSIPTG	dissipating	
DSNT	distant	DU	widespread dust	
		DVR	dispatch visual range	
DZ	drizzle	E	east, ended, estimated ceiling (SAO)	
FAA	Federal Aviation Administration	FC	funnel cloud	
FEW	few clouds	FG	fog	
FIBI	filed but impracticable to transmit	FIRST	first observation after a break in coverage at manual station	
FMH-1	Federal Meteorological Handbook No.1, Surface Weather Observations & Reports (METAR)	FMH2	Federal Meteorological Handbook No.2, Surface Synoptic Codes	

1 of 3 12/24/2008 7:48 AM

ent	FROPA	frontal passage
	FU	smoke
ng	FZRANO	freezing rain sensor not available
<u>.p</u>	GR	hail
hail and/or snow pellets	HLSTO	HLSTO hailstone
Tall and/or show penets	IC	ice crystals, in-cloud lightning
ational Civil Aviation Organization	INCRG	increasing
nittent	KT	KNOTS
vith reference to runway designation)	LAST	last observation before a break in coverage at a manual station
Standard Time	LTG	lightning
Standard Time	M	minus, less than
num	METAR	routine weather report provided at fixed intervals
W	min	minimum
d/moving/movement	MT	mountains
/ moving movement	N/A	not applicable
nal Climatic Data Center	NE	northeast
nal Ocean Survey	NOSPECI	no SPECI reports are taken at the station
e to Airmen	NW	no SPECI reports are taken at the station northwest
nal Weather Service	OCNL	occasional
e of the Federal Coordinator for Meteorology	OHD	overhead
ast	OVR	over
tes greater than the highest reportable value	PCPN	precipitation
llets	PK WND	peak wind
pitation amount not available	PO	dust/sand whirls (dust devils)
ire	PR	partial
are falling rapidly	PRESRR	pressure rising rapidly
oitation identifier sensor not available	PY	spray
with reference to runway designation), runway	RA	rain
ne Delayed (late) observation	RV	reportable value
ay Visual Range	RVRNO	RVR system values not available
ıy	S	snow, south
	SCSL	stratocumulus standing lenticular cloud
		S

2 of 3 12/24/2008 7:48 AM

SCT	scattered	SE	southeast
SFC	surface	SG	snow grains
SH	shower(s)	SKC	sky clear
SLP	sea-level pressure	SLPNO	sea-level pressure not available
SM	statute miles	SN	snow
SNINCR	snow increasing rapidly	SP	snow pellets
SPECI	an unscheduled report taken when certain criteria have been met	SQ	squalls
SS	sandstorm	STN	station
SW	snow shower, southwest	TCU	towering cumulus
TS	thunderstorm	TSNO	thunderstorm information not available
TWR	tower	UNKN	unknown
UP	unknown precipitation	UTC	Coordinated Universal Time
V	variable	VA	volcanic ash
VC	in the vicinity	VIS	visibility
VISNO	visibility at secondary location not available	VR	visual range
VRB	variable	VV	vertical visibility
W	west	WG/SO	Working Group for Surface Observations
WMO	World Meteorological Organization	WND	wind
WSHFT	wind shift	Z	zulu, i.e., Coordinated Universal Time

Return To $\underline{\text{METAR}}$ Introduction and menu

Return to Fairbanks AFSS Home Page

3 of 3 12/24/2008 7:48 AM

APPENDIX C

Content of ASOS-Generated METAR

A Quick Reference Guide

KEY TO DECODE AN ASOS (METAR) OBSERVATION

METAR KABC 121755Z AUTO 21016G24KT 180V240 1SM R11/P6000FT -RA BR BKN015 OVC025 06/04 A2990 RMK AO2 PK WND 20032/25 WSHFT 1715 VIS 3/4V1 1/2 VIS 3/4 RWY11 RAB07 CIG 013V017 CIG 017 RWY11 PRESFR SLP125 P0003 60009 T00640036 10066 21012 58033 TSNO \$

TYPE OF REPORT	METAR: hourly (scheduled) report; SPECI: special (unscheduled) report.	METAR
STATION IDENTIFIER	Four alphabetic characters; ICAO location identifier.	KABC
DATE/TIME	All dates and times in UTC using a 24-hour clock; two-digit date and four-digit time; always appended with \underline{Z} to indicate UTC.	121755Z
REPORT MODIFIER	Fully automated report, no human intervention; removed when observer signed-on.	AUTO
WIND DIRECTION AND SPEED	Direction in tens of degrees from true north (first three digits); next two digits: speed in whole knots; as needed <u>Gusts</u> (character) followed by maximum observed speed; always appended with <u>KT</u> to indicate knots; 00000KT for calm; if direction varies by 60° or more a <u>Variable</u> wind direction group is reported.	21016G24KT 180V240
VISIBILITY	Prevailing visibility in statute miles and fractions (space between whole miles and fractions); always appended with <u>SM</u> to indicate statute miles; values <1/4 reported as M1/4.	1SM
RUNWAY VISUAL RANGE	10-minute RVR value in hundreds of feet; reported if prevailing visibility is \leq one mile or RVR \leq 6000 feet; always appended with <u>FT</u> to indicate feet; value prefixed with <u>M</u> or <u>P</u> to indicate value is lower or higher than the reportable RVR value .	R11/P6000FT
WEATHER PHENOMENA	RA: liquid precipitation that does not freeze; SN: frozen precipitation other than hail; UP: precipitation of unknown type; intensity prefixed to precipitation: light (-), moderate (no sign), heavy (+); FG: fog; FZFG: freezing fog (temperature below 0°C); BR: mist; HZ: haze; SQ: squall; maximum of three groups reported; augmented by observer: FC (funnel cloud/tornado/waterspout); TS (thunderstorm); GR (hail); GS (small hail; <1/4 inch); FZRA (intensity; freezing rain); VA (volcanic ash).	-RA BR
SKY CONDITION	Cloud amount and height: CLR (no clouds detected below 12000 feet); FEW (few); SCT (scattered); BKN (broken); OVC (overcast); followed by 3-digit height in hundreds of feet; or vertical visibility (<u>VV</u>) followed by height for indefinite ceiling.	BKN015 OVC025
TEMPERATURE/DEW POINT	Each is reported in whole degrees Celsius using two digits; values are separated by a solidus; sub-zero values are prefixed with an $\underline{\mathbf{M}}$ (minus).	06/04
ALTIMETER	Altimeter always prefixed with an \underline{A} indicating inches of mercury; reported using four digits: tens, units, tenths, and hundredths.	A2990

REMARKS IDENTIFIER: RMK	RMK		
TORNADIC ACTIVITY: Augmented; report should include TORNADO, FUNNEL CLOUD, or WATERSPOUT, time begin/end, location, movement; e.g., TORNADO B25 N MOV E.			
TYPE OF AUTOMATED STATION: AO2; automated station with precipitation discriminator.	AO2		
PEAK WIND : PK WND dddff(f)/(hh)mm; direction in tens of degrees, speed in whole knots, and time.	PK WND 20032/25		
WIND SHIFT: WSHFT (hh)mm	WSHFT 1715		
TOWER OR SURFACE VISIBILITY: TWR VIS vvvvv: visibility reported by tower personnel, e.g., TWR VIS 2; SFC VIS vvvvv: visibility reported by ASOS, e.g., SFC VIS 2.			
$ \hline \textbf{VARIABLE PREVAILING VISIBILITY: VIS } v_n v_n v_n v_n v_n v_n v_n v_n v_n v_n$	VIS 3/4V1 1/2		
VISIBILITY AT SECOND LOCATION: VIS vvvvv [LOC]; reported if different than the reported prevailing visibility in body of report.	VIS 3/4 RWY11		
LIGHTNING: [FREQ] LTG [LOC]; when detected the frequency and location is reported, e.g., FRQ LTG NE.			
BEGINNING AND ENDING OF PRECIPITATION AND THUNDERSTORMS: w'w'B(hh)mmE(hh)mm; TSB(hh)mmE(hh)mm	RAB07		
VIRGA: Augmented; precipitation not reaching the ground, e.g., VIRGA.			
VARIABLE CEILING HEIGHT : CIG $h_nh_nh_nVh_xh_xh_x$; reported if ceiling in body of report is < 3000 feet and variable.	CIG 013V017		
CEILING HEIGHT AT SECOND LOCATION: CIG hhh [LOC]; Ceiling height reported if secondary ceilometer site is different than the ceiling height in the body of the report.	CIG 017 RWY11		
PRESSURE RISING OR FALLING RAPIDLY: PRESRR or PRESFR; pressure rising or falling rapidly at time of observation.	PRESFR		
SEA-LEVEL PRESSURE: SLPppp; tens, units, and tenths of SLP in hPa.	SLP125		
HOURLY PRECIPITATION AMOUNT: Prrrr; in .01 inches since last METAR; a trace is P0000.	P0003		
3- AND 6-HOUR PRECIPITATION AMOUNT : 6RRRR; precipitation amount in .01 inches for past 6 hours reported in 00, 06, 12, and 18 UTC observations and for past 3 hours in 03, 09, 15, and 21 UTC observations; a trace is 60000.	60009		
24-HOUR PRECIPITATION AMOUNT : 7R ₂₄ R ₂₄ R ₂₄ R ₂₄ ; precipitation amount in .01 inches for past 24 hours reported in 12 UTC observation, e.g., 70015.			
HOURLY TEMPERATURE AND DEW POINT : $Ts_nT_aT_aT_as_nT'_aT'_aT'_a$; tenth of degree Celsius; s_n : 1 if temperature below 0°C and 0 if temperature 0°C or higher.	T00640036		
6-HOUR MAXIMUM TEMPERATURE : $1s_nT_xT_xT_x$; tenth of degree Celsius; 00, 06, 12, 18 UTC; s_n : 1 if temperature below 0°C and 0 if temperature 0°C or higher.	10066		
6-HOUR MINIMUM TEMPERATURE : 2s _n T _n T _n T _n ; tenth of degree Celsius; 00, 06, 12, 18 UTC; s _n : 1 if temperature below 0°C and 0 if temperature 0°C or higher.	21012		
24-HOUR MAXIMUM AND MINIMUM TEMPERATURE : $4s_nT_xT_xT_xs_nT_nT_n$; tenth of degree Celsius; reported at midnight local standard time; 1 if temperature below 0°C and 0 if temperature 0°C or higher, e.g., 400461006.			
PRESSURE TENDENCY : 5appp; the character (a) and change in pressure (ppp; tenths of hPa) the past 3 hours.	58033		
SENSOR STATUS INDICATORS: 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; VISNO [LOC]: visibility at secondary location not available, e.g., VISNO RWY06; CHINO [LOC]: (cloud-height-indicator) sky condition at secondary location not available, e.g., CHINO RWY06.	TSNO		
MAINTENANCE CHECK INDICATOR: Maintenance needed on the system.	\$		
If an element or phenomena does not occur, is missing, or cannot be observed, the corresponding group and space are omitted (body and/or remarks) from that particular report, except for Sea-Level Pressure (SLPppp). SLPNO shall be reported in a METAR when the SLP is not available.			