Aviation Weather Decode Card

UTC Conversion Table			
UTC	EST	CST	WST
0000	1000	0930	0800
0100	1100	1030	0900
0200	1200	1130	1000
0300	1300	1230	1100
0400	1400	1330	1200
0500	1500	1430	1300
0600	1600	1530	1400
0700	1700	1630	1500
0800	1800	1730	1600
0900	1900	1830	1700
1000	2000	1930	1800
1100	2100	2030	1900
1200	2200	2130	2000
1300	2300	2230	2100
1400	0000	2330	2200
1500	0100	0030	2300
1600	0200	0130	0000
1700	0300	0230	0100
1800	0400	0330	0200
1900	0500	0430	0300
2000	0600	0530	0400
2100	0700	0630	0500
2200	0800	0730	0600
2300	0900	0830	0700

SIGMET

SIGMETs provide information on observed or forecast hazardous weather conditions.

Issue Times	As required
Validity	Four hours, reviewed after three hours or when further information available.
Heights	Feet AMSL up to 10,000; flight levels from FL100
Area	North and south of 30°S in Brisbane FIR and west and east of 130°E in Melbourne FIR

ARFOR

Area forecasts are forecasts for a specific region. They are intended for use for domestic IFR and VFR flights below 10,000.

Issue Times	Various depending on area. Daylight hours forecast published as early as practical in the morning.	
Validity	Routinely 12 hours but may vary.	
Heights	Feet AMSL	
Area	Defined areas as specified on the Planning Chart Australia (PCA)	
Wind	**Speed**	Knots
	Direction	Degrees True
Cloud	**Type**	AS, AC, NS, SC, ST, TCU,CB
	Amount	SKC, FEW, SCT, BKN, OVC
Temperature	Degrees Celcius	

TAF and TTF

A TAF is an aerodrome forecast provided for a specific aerodrome, presented in code.
A TTF is a forecast, valid for two hours, attached to the end of a METAR or SPECI stating any significant changes from those described. While the TTF is valid it supersedes the aerodrome TAF.

Issue Times	Major aerodromes 00, 06, 12, 18 Z	
Validity	12, 18 or 24 hours depending on location.	
Heights	Feet above aerodrome level	
Area	Within 5 NM of the aerodrome reference.	
Wind	**Speed**	Knots
	Direction	Degrees True
Visibility	Up to 9999 metres – in metres, eg 6000 Above 9999 metres – in kilometres, eg 20KM CAVOK and 9999 may be used	
Cloud	**Type**	CB
	Amount	NSC, SKC, FEW, SCT, BKN, OVC
Temperature	Degrees Celcius	

METAR AND SPECI

A METAR is a routine meteorological report, compiled manually, provided for a specific aerodrome.
A METAR AUTO is a routine meteorological report provided by an automatic weather station (AWS) provided for a specific aerodrome.
A SPECI is a METAR issued outside of the routine issue time of a METAR.

Issue Times	METARS are issued at fixed times, hourly or half hourly	
Heights	Feet above aerodrome level	
Area	Within 8km of the aerodrome reference point. When the term VC is used it applies to the area between 8 and 16 km from the aerodrome reference point.	
Wind	**Speed**	Knots
	Direction	Degrees True
Visibility	Up to 9999 metres – in metres, eg 6000 Above 9999 metres – in kilometres, eg 20KM Visibililty variation shown by adding the direction eg 2000NE – visibility variation not reported in METAR AUTO. CAVOK and 9999 may be used	
Cloud	**Type**	CB, TCU
	Amount	NSC, SKC, FEW, SCT, BKN, OVC
Temperature	Degrees Celcius	

ATIS and Take-off and Landing Reports

ATIS is a continuous plain language broadcast of the current conditions of an aerodrome. It is broadcast on a discrete frequency.
Take-off and landing reports are available at locations where CA/GRS or UNICOM is provided.

Issue Times	Continuously during operating hours	
Heights	Feet above aerodrome level	
Area	Within 8km of the aerodrome reference point.	
Altimeter Setting	Hectopascals	
Temperature	Degrees Celcius	
Cloud if significant or below 5,000 feet	**Type**	CB, TCU
	Amount	NSC, SKC, FEW, SCT, BKN, OVC
Wind	**Speed**	Knots
	Direction	Degrees Magnetic
Visibility	Up to 9999 metres – in metres, eg 6000 Above 9999 metres – Greater than 10 KM CAVOK may be used	

When Cumulonimbus cloud (CB) is included in meteorological information this implies that there may be associated thunderstorms and the occurrence of severe icing, turbulence and hail.

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http://www.unmannedapprovals.com.au

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//*	**Weather is clear or current weather is not detectable**
///*	Cloud is detected, no CB / TCU identified
-	Light
(Blank space)	Moderate (when included before a weather phenomenon)
+	Heavy
9999	Visibility 10 km or greater
ABT	About
AC	Altocumulus
AGL	Above ground level
AIP	Aeronautical Information Package
AIREP	Air report – from aircraft in flight
AMD	Amended
AMSL	Above mean sea level
ARFOR	Area forecast
AS	Altostratus
ATIS	Automatic terminal information service
ATS	Air traffic services
AWIB	Automatic weather information service
AWS	Automatic weather station
BC	Patches
BECMG	Becoming
BKN	Broken (5-7 oktas)
BL	Blowing
BR	Mist
BWR	Basic weather report
CAT	Clear air turbulence
CAVOK	Cloud and visibility OK
CB	Cumulonimbus
CLD	Cloud
CNL	Cancelled
COR	Corrected
CU	Cumulus
DP	Dew point temperature
DR	Drifting
DS	Dust storm
DU	Dust
DZ	Drizzle
EMBD	Embedded
FC	Funnel Cloud
FCST	Forecast
FEW	Few (1 -2 oktas)
FG	Fog (visibility less than 1000 metres)
FIR	Flight information region
FL	Flight level
FM	From
FRQ	Frequent
FU	Smoke
FZ	Freezing
FZL	Freezing level
G	Gusts
GOOD	Visibility greater than 10km over the entire forecast area
GR	Hail (5mm or more)
GS	Hail (smaller than 5 mm)
HVY	Heavy
HZ	Haze
IC	Ice crystals
ICAO	International Civil Aviation Organisation
ICE	Icing
IFR	Instrument flight rules
IMC	Instrument meteorological conditions
INTER	Intermittently (less than 30 minutes duration)
ISOL	Isolated
KM	Kilometres
KT	Knots
LYR	Layer
M	Metres
METAR	Aerodrome routine meteorological report
METAR	Automatic aerodrome meteorological report
MI	Shallow
MOD	Moderate
MOV	Moving
MS	Minus
MTW	Mountain waves
NC	No change
NCD	No cloud detected (METAR AUTO Only)
NDV	No directional variation available (METAR AUTO only)
NM	Nautical miles
NOSIG	No significant change
NOTAM	Notice to airmen
NS	Nimbostratus
NSC	No significant cloud
NSW	No significnat weather
OBSC	Obscured
OCNL	Occasional
OVC	Overcast (8 oktas)
PIREP	Pilot report
PL	Ice pellets
PO	Dust devils
PR	Partially covered with fog
PROB	Probability
PROV	Provisional
PS	Plus
QNH	Altimeter sub-scale setting
RA	Rain
RE	Recent
RMK	Remark
RVR	Runway visual range
SA	Sand
SC	Stratocumulus
SCT	Scattered (3-4 oktas)
SEV	Severe
SFC	Surface
SG	Snow grains
SH	Shower
SIG	Significant
SIGMET	Significnat meteorological information
SKC	Sky Clear
SN	Snow
SPECI	Aerodrome special meteorological report
SQ	Squall
SS	Sandstorm
ST	Stratus
STNR	Stationary
T	Temperature in degrees celcius
TAF	Aerodrome forecast
TC	Tropical cyclone
TCU	Towering cumulus
TEMPO	Temporarily (30 – 60 minutes duration)
TIL	Until
TL	Till
TREND	Trend forecast
TS	Thunderstorm
TURB	Turbulence
UTC	Coordinated universal time
V	Variations from mean wind direction
VA	Volcanic Ash
VC	Vicinity of aerodrome (within 10 NM)
VFR	Visual flight rules
VMC	Visual meteorological conditions
VRB	Variable
WKN	Weakening
WDSPR	Widespread
WS	Windshear
WX	Weather
Z	Coordinated universal time