## **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

JIGHTE1			
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 <sup>0</sup> 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	
wina	Direction	Degrees True	
Cloud	Туре	AS, AC, NS, SC, ST, TCU,CB	
Cioud	Amount	SKC, FEW, SCT, BKN, OVC	
Temperature	Degrees Celsius		

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			
described. While the TTF is valid it supersedes the aerodrome TAF.			
lssue 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.		
	Speed	Knots	
wind	Direction	Degrees True	
Visibility	Up to 9999 meters – in meters, e.g. 6000 Above 9999 meters – in kilometers, e.g. 20KM CAVOK and 9999 may be used		
Cloud	Туре	СВ	
ciouu	Amount	NSC, SKC, FEW, SCT, BKN, OVC	
<b>Femperature</b>	Degrees Celsius		



	N	/IETAR AND SPECI		
A METAR is a routine meteorological report, compiled manually, provided for a				
specific aerodrome				
A METAR AUTO is a	a routine mete	eorological report provided by an automatic weather		
station (AWS) prov	ided for a spec	cific aerodrome.		
A SPECI is a METAR	issued outsid	e 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			
	Within 8km of the aerodrome reference point.			
Area	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		
	Up to 9999 meters – in meters, e.g. 6000			
Visibility	Above 9999 meters – in kilometers, e.g. 20KM			
	Visibility variation shown by adding the direction e.g. 2000NE –			
	visibility variation not reported in METAR AUTO.			
	CAVOK and 9999 may be used			
Cloud	Туре	CB, TCU		
Cloud	Type Amount	CB, TCU NSC, SKC, FEW, SCT, BKN, OVC		

## **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 Celsius			
<b>Cloud</b> if significant or below 5,000 feet	Туре	CB, TCU		
	Amount	NSC, SKC, FEW, SCT, BKN, OVC		
M/in al	Speed	Knots		
wind	Direction	Degrees Magnetic		
Visibility	Up to 9999 meters – in meters, e.g. 6000 Above 9999 meters – 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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///*	Weather is clear or current weather is not detectable	DS	Dust storm	MI	Shallow	SH	Shower
///**	Cloud is detected, no CB / TCU identified	DU	Dust	MOD	Moderate	SIG	Significant
-	Light	DZ	Drizzle	MOV	Moving	SIGM ET	Significant meteorological information
(Blank space)	Moderate (when included before a weather phenomenon)	EMBD	Embedded	MS	Minus	SKC	Sky Clear
+	Heavy	FC	Funnel Cloud	MTW	Mountain waves	SN	Snow
9999	Visibility 10 km or greater	FCST	Forecast	NC	No change	SPEC I	Aerodrome special meteorological report
ABT	About	FEW	Few (1-2 oktas)	NCD	No cloud detected (METAR AUTO only)	SQ	Squall
AC	Altocumulus	FG	Fog (visibility less than 1000 metres)	NDV	No directional variation available (METAR AUTO only)	SS	Sandstorm
AGL	Above ground level	FIR	Flight information region	NM	Nautical miles	ST	Stratus
AIP	Aeronautical Information Package	FL	Flight level	NOSI G	No significant change	STNR	Stationary
AIREP	Air report – from aircraft in flight	FM	From	NOT AM	Notice to airmen	Т	Temperature in degrees Celsius
AMD	Amended	FRQ	Frequent	NS	Nimbostratus	TAF	Aerodrome forecast
AMSL	Above mean sea level	FU	Smoke	NSC	No significant cloud	тс	Tropical cyclone
ARFOR	Area forecast	FZ	Freezing	NSW	No significant weather	TCU	Towering cumulus
AS	Altostratus	FZL	Freezing level	OBS C	Obscured	TEMP O	Temporarily (30 – 60 minutes duration)
ATIS	Automatic terminal information service	G	Gusts	OCN L	Occasional	TIL	Until
ATS	Air traffic services	GOOD	Visibility greater than 10km over the entire forecast area	OVC	Overcast (8 oktas)	TL	Till
AWIB	Automatic weather information service	GR	Hail (5mm or more)	PIRE P	Pilot report	TREN D	Trend forecast
AWS	Automatic weather station	GS	Hail (smaller than 5 mm)	PL	Ice pellets	TS	Thunderstorm
BC	Patches	HVY	Heavy	PO	Dust devils	TURB	Turbulence
BECMG	Becoming	HZ	Haze	PR	Partially covered with fog	UTC	Coordinated universal time
BKN	Broken (5-7 oktas)	IC	Ice crystals	PRO B	Probability	V	Variations from mean wind direction
BL	Blowing	ICAO	International Civil Aviation Organisation	PRO V	Provisional	VA	Volcanic Ash
BR	Mist	ICE	lcing	PS	Plus	VC	Vicinity of aerodrome (within 10 NM)
BWR	Basic weather report	IFR	Instrument flight rules	QNH	Altimeter sub-scale setting	VFR	Visual flight rules
CAT	Clear air turbulence	IMC	Instrument meteorological conditions	RA	Rain	VMC	Visual meteorological conditions
CAVOK	Cloud and visibility OK	INTER	Intermittently (less than 30 minutes duration)	RE	Recent	VRB	Variable
СВ	Cumulonimbus	ISOL	Isolated	RMK	Remark	WKN	Weakening
CLD	Cloud	KM	Kilometres	RVR	Runway visual range	WDS PR	Widespread
CNL	Cancelled	KT	Knots	SA	Sand	WS	Windshear
COR	Corrected	LYR	Layer	SC	Stratocumulus	WX	Weather
CU	Cumulus	Μ	Metres	SCT	Scattered (3-4 oktas)	Z	Coordinated universal time
DP	Dew point temperature	METAR	Aerodrome routine meteorological report	SEV	Severe		
DR	Drifting	METAR	Automatic aerodrome				