AVIATION WEATHER PRODUCTS

Trend Forecast (TTF)

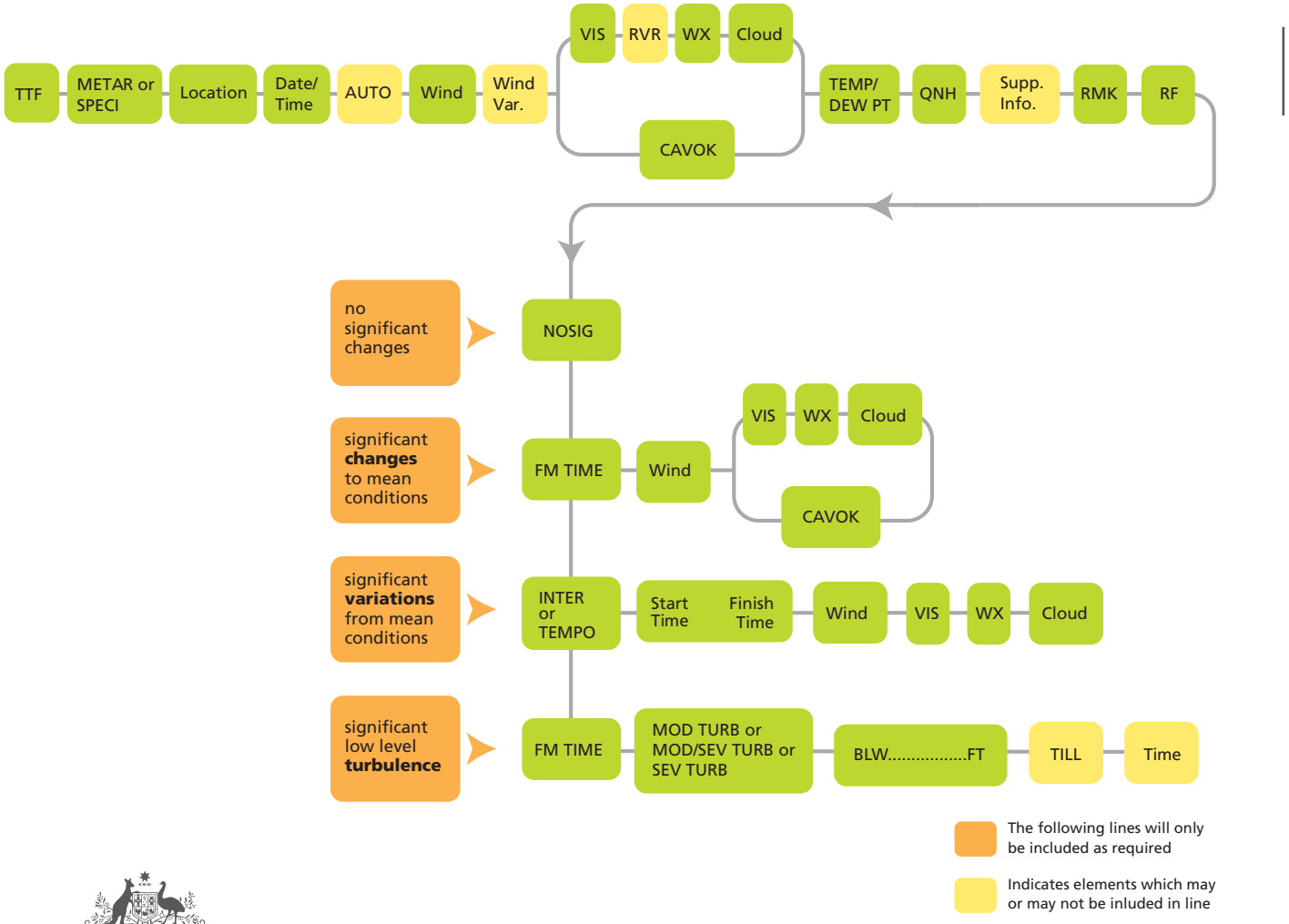
TTF SPECIYPAD 112200Z
00000KT 2000 +DZ
OVC005 12/11 Q1020 RMK
RF00.8/001.8
FM2200 32005KT 9999 NSW
BKN008
FM2300 04005KT 9999 NSW
SCT020

Trend Forecast

The trend forecast is an aerodrome weather report (METAR or SPECI) to which a statement of trend, for the elements wind, visibility, weather and clouds, is appended, forecasting the weather conditions expected to affect the aerodrome for the validity period of the TTF which is normally the three hours following the time of the report.

The TTF supersedes the Aerodrome Forecast (TAF) for its validity period. For aerodromes where the TTF service is not a 24 hour service, a statement in the remarks section during the last three hours of the service will indicate when the TAF supersedes the TTF, e.g. USE TAF FOR ARRIVALS AFTER 0800Z.

The format of an Australian TTF



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The METAR/SPECI component of the TTF is explained in the METAR/SPECI brochure in this series.

The forecast component of the TTF follows the TAF rules (refer to the TAF brochure in this series) except for the following:

NOSIG

NOSIG is used when no significant changes to the existing conditions (as per the METAR/SPECI) are expected for the validity of the TTF. Note that NOSIG does not mean no significant weather.

FM

FM (from) is used in the same way as for the TAF except that in the TTF the time is given in the format FMHHMM (hours and minutes).

INTER and TEMPO

INTER and TEMPO are used in the same way as for the TAF except that in the TTF the INTER/TEMPO period is given in the format HHMM/HHMM (hours and minutes).

MOD/SEV TURB

Turbulence is used in the same way as for the TAF except that in the TTF the times are given in the format FMHHMM and TILL HHMM (hours and minutes).

PROB

PROB forecasts are not used in TTF. Users should refer to TAF for any likelihood (30 or 40%) of other conditions occurring.

Perth Airport, photo courtesy of Creative Commons

Examples

TTF METAR YPPH 231400Z 02015KT 9999 SCT040 BKN120 22/08 Q1009 RMK
RF00.0/000.0 DISTANT LIGHTNING TO NW
FM1530 32018G35KT 6000 SHRA BKN030 BKN120
INTER 1530/1700 3000 TSRA SCT010 BKN030CB
FM1530 MOD TURB BLW 5000FT

REPORT	EXPLANATION
TTF	Trend Forecast
METAR	Routine meteorological observation
YPPH	Perth Airport location indicator
231400Z	Report time is 1400 on the 23rd of the month UTC
02015KT	Wind is from the north-northeast (020 degrees True) at 15 knots
9999	Visibility is 10 kilometres or more
SCT040	There are 3 to 4 oktas of cloud, with base at 4000 feet above the aerodrome
BKN120	There are also 5 to 7 oktas of cloud, with base at 12 000 feet above the aerodrome
22/08	Air temperature is 22°C and dewpoint temperature is 08°C
Q1009	QNH is between 1009 and 1009.9 hectopascals
RMK	Indicator that remarks follow (rainfall amount and distant lightning)
RF00.0/000.0	There has been no rainfall in the last 10 minutes nor since 9 am (local time)
DISTANT LIGHTNING	Distant (greater than 16 kilometres from the aerodrome reference point) lightning to the northwest has been observed

TO NW	
FM1530	From 1530 UTC the observed conditions of the METAR are expected to change to:
32018G35KT	Wind will be north-westerly (from 320 degrees True) at 18 knots with gusts to 35 knots
6000	The prevailing visibility will reduce to 6000 metres
SHRA	There will be moderate showers of rain
BKN030	Cloud will increase to 5 to 7 oktas with base lowering to 3000 feet above the aerodrome
BKN120	There will also be 5 to 7 oktas at 12 000 feet
INTER	The following significant variations to the previously given mean conditions are expected to occur intermittently (i.e. for periods of less than 30 minutes):
1530/1700	The period of the INTER will be from 1530 to 1700 UTC
3000	Visibility will reduce to 3000 metres
TSRA	Weather will be thunderstorms with moderate rain showers
SCT010	There will be 3 to 4 oktas of cloud, with base at 1000 feet above the aerodrome
BKN030CB	There will be 5 to 7 oktas of cumulonimbus cloud, with base at 3000 feet above the aerodrome
FM1530 MOD TURB BLW 5000FT	From 1530 UTC, expect moderate turbulence below 5000 feet. Refer to TAF for conditions after 1700.

Adelaide Airport, photo by Adam Trevorrow, courtesy of Creative Commons

TTF SPECI YPAD 112200Z 00000KT 2000 +DZ OVC005 12/11 Q1020 RMK RF00.8/001.8
FM2200 32005KT 9999 NSW BKN008
FM2300 04005KT 9999 NSW SCT020

REPORT	EXPLANATION
TTF	Trend Forecast
SPECI	Special meteorological observation (for reduced visibility and cloud)
YPAD	Adelaide Airport location indicator
112200Z	Report time is 2200 on the 11th of the month UTC
00000KT	Wind is calm
2000	Visibility is 2000 metres
+DZ	Weather is drizzle of heavy intensity
OVC005	There are 8 oktas of cloud, with base at 500 feet above the aerodrome
12/11	Air temperature is 12°C and dewpoint temperature is 11°C
Q1020	QNH is between 1020 and 1020.9 hectopascals
RMK	Indicator that remarks (rainfall measurement) follow
RF00.8/001.8	There has been 0.8 mm of rainfall in last 10 minutes; and 1.8 mm since 9 am (local time)
FM2200	From 2200 UTC the observed conditions of the SPECI are expected to change to:

32005KT	Wind will be from the north-west (320 degrees True) at 5 knots
9999	Visibility will increase to 10 kilometres or more
NSW	There will be nil significant weather
BKN008	There will be 5 to 7 oktas of cloud with base lifting to 800 feet above aerodrome
FM2300	From 2300 UTC the mean conditions are expected to change to:
04005KT	Wind will be from the northeast (040 degrees True) at 5 knots
9999	The prevailing visibility will remain at 10 kilometres or more
NSW	There will be nil significant weather
SCT020	There will be 3 to 4 oktas of cloud with base lifting to 2000 feet above the aerodrome

Melbourne Airport (photo courtesy of Creative Commons)

TTF SPECI YMML 092200Z 00000KT 0300 R16/0300N R27/0350N FG 09/09 Q1017 RMK RF00.0/001.8 NOSIG

REPORT	EXPLANATION
TTF	Trend Forecast
SPECI	Special observation (for reduced visibility due fog)
YMML	Melbourne Airport location indicator
092200Z	Report time is 2200 on the 9th of the month UTC
00000KT	Wind is calm
0300	Visibility is 300 metres
R16/0300N	Runway visual range on runway 16 threshold is 300 metres, with nil trend
R27/0350N	Runway visual range on runway 27 threshold is 350 metres, with nil trend
FG	Weather is fog
09/09	Air temperature and dewpoint temperature are both 9°C
Q1017	QNH is between 1017hPa and 1017.9hPa
RMK	Indicator that remarks (rainfall measurement) follow
RF00.0/001.8	There has been nil rainfall in last 10 minutes; and 1.8 mm since 9 am (local time)
NOSIG	No significant changes from the SPECI conditions are expected during the forecast period (three hours)

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Airservices Australia is the official distributor of aviation forecasts, warnings and observations issued by the Bureau of Meteorology. Airservices' flight briefing services are available at www.airservicesaustralia.com. Telephone contact details for elaborative briefings are contained in Airservices' Aeronautical Information Publication Australia (AIP), which is available online through their website.

Other brochures produced by the Bureau of Meteorology's aviation weather services program can be found at www.bom.gov.au/aviation/knowledge-centre.

A vertical line in the right-hand margin indicates a text amendment since last update.