



This feature requires RAOB's Fronts & Forecast module.

Maximum Surface Temperature Forecast -- Restriction Options

Maximum temperature forecast algorithm is based on Gold's (1933) equal-area methodology. Method assumes (1) no clouds, (2) light winds, and (3) summer months. These restrictions can be configured below.

**Clouds** Winds Seasons

Activate cloud restrictions. Note: Cloud layers are generated by RAOB's internal algorithms.

Cloud Type	Cloud Coverage		
	OVC	BKN	SCT
CI	90	95	99
AS	60	80	95
SC	50	70	90
NS/ST	35	60	80

Values represent percentage (%) retention factors. All cloud layers are searched for the lowest percentage value found from the Cloud Coverage table. Other cloud types (such as CU and AC) are ignored.

Restore default values

**Lowest significant cloud layer found = AS-BKN**

Save Changes Close Help

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Clouds **Winds** Seasons

Activate wind restrictions.

**1 knot = 1% reduction**

Wind speed is obtained from RAOB's calculation of the Mean Transport Wind (TransportM), which is the mean wind in the Mixing Layer or PBL. When activated, the maximum temperature increase is reduced by 1 percent for each knot of wind speed. For example, a 10 kt mean wind will reduce maximum wind result by 10%.

**The current sounding's TransportM (mean wind) = 25 knots.**

Save Changes Close Help

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Clouds Winds **Seasons**

Restore default values  Activate seasonal restrictions.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
50	60	70	80	90	100	100	90	80	70	60	50

Values represent percentage of the temperature increase retained. Values should be adjusted for latitude.

RAOB determines the 'Month' value from the DTG of the sounding data. If the Month can not be determined from the sounding data, then the Month is obtained from this computer's operating system (OS).

**The 'Month' associated with the current sounding = Mar \***

\* OS derived.

Save Changes Close Help