

DeCODED (raw) DATA EDITOR.

Access this data editor through RAOB's EDIT menu.

All sounding data processed by RAOB can be viewed and edited using this DeCoded (or Raw) Data editor.

When RAOB reads data containing a WMO number, the RAOB.STN data file is searched for a matching WMO number. If a match is found, then the station's ICAO identifier and station name & location are automatically placed in the sounding's Identification & Information line. Additionally, if a match is found, both the elevation and coordinate data are also automatically attached to the data file for processing. For stations not listed in the RAOB.STN file and for all newly entered raw data soundings, both the elevation and coordinates must be manually entered as described next.

Station Data.

The Original Data Format line identifies the format of sounding data's source file. To view the source data and its original format, use the Sounding's EDIT Menu and then the SOURCE Data Editor.

The Data Identification & Information line is a free form text line available to the user. RAOB will automatically fill this line with significant information regarding the sounding, which is found from the source file or from information obtained using a WMO match from the RAOB.STN locator file. This information line is always initially displayed upon activating the Add and Edit modes. This information line is always displayed along with the sounding's filename on all screen displays and on all output products.

Station Elevation must be entered in Meters (MSL). Elevations below sea-level are entered using a minus sign (e.g., -20). If the elevation is not known, RAOB will then estimate the station elevation using the Pressure-Altitude method. To do this, first remove data from the Meters data box, and then click on the Estimate Elevation check box. Entry of the sounding site's surface elevation is essential for accurate data processing by RAOB's algorithms. Caution: Elevation estimation is only an approximation -- only the actual measured station elevation will produce accurate results.

Coordinates can be entered in one of two different formats:

Degrees/Minutes/Seconds - or - Decimal-Degrees.

Default Data options exist to help automate entry of new data soundings for the same location. The SAVE option records the above data, while the APPLY option pastes the saved information onto the Station Data edit form.

Pressure & Temperature Data.

RAOB DataFile - CAPE.RAW

File Help

Station Data Pres & Temp Hgt & Wind

	PRS (mb)	T (°C)	T-Td (°C)
1	882.0	29.6	13.0
2	876.0	27.8	10.0
3	850.0	25.0	9.0
4	800.0	20.8	8.0
5	750.0	17.6	11.0
6	735.0	16.4	12.0
7	700.0	12.6	10.0
8	650.0	7.2	7.0
9	600.0	1.2	5.0
10	590.0	-0.1	2.0
11	556.0	-4.5	4.3
12	550.0	-5.1	3.4
13	532.0	-7.7	0.7
14	512.0	-8.9	10.0
15	500.0	-9.5	11.0
16	450.0	-16.1	11.0
17	444.0	-16.9	11.0
18	400.0	-20.5	12.0
19	350.0	-26.5	11.0
20	300.0	-33.5	10.0
21	264.0	-40.1	10.0
22	250.0	-43.3	m
23	200.0	-53.5	m
24	175.0	-58.7	m
25	167.0	-60.7	m

Levels: 29

Insert Delete

Invert Levels

PRS Format

Integer

Tenths

Temperature

°C

°F

Moisture

Td

T-Td

Missing DewPoint (Td) data is represented by the "m" character.

Help

This form allows entry of pressure-level data, including temperatures and dewpoints (or dewpoint spread information). Various data options give the user maximum flexibility during data entry.

A missing dewpoint (Td) must be entered with a small "m".

New or edited data will only be recorded if the user presses the ENTER key.

RAOB continually checks data entries for vertical consistency and against standard pressure-temperature relationships.

Height & Wind Data.

RAOB DataFile - 97020100.WMO

File Help

Station Data Pres & Temp Hgt & Wind

	Height	Wind	
	AGL (m)	Dir (deg)	Spd (kts)
1	0	215	6
2	948	200	4
3	1424	135	2
4	1728	105	1
5	2033	350	2
6	2643	265	3
7	2948	250	10
8	3629	235	14
9	3862	235	14
10	4472	240	19
11	5311	245	43
12	5386	245	42
13	5691	250	49
14	6910	255	54
15	7378	245	44
16	8434	245	47
17	8591	240	44
18	9044	230	42
19	9348	225	43
20	10013	235	57
21	10872	250	57
22	11837	245	59
23	12701	245	67
24	13006	250	67
25	13616	260	68

Levels: 39

Insert Delete

Invert Levels

Hgt Mode

AGL

MSL

Hgt Scale

Meters

Feet

Wind Speed

Knots

m/s

The first (lowest) wind must be at surface level where Height = 0, AGL.

Help

This form allows entry of height-level data, including wind speed & wind direction. Various data options give the user maximum flexibility during data entry.

The first wind must be entered as the surface wind. Also, this wind's height must be zero (0) feet or meters (AGL) or else RAOB will display a warning message.

New or edited data will only be recorded if the user presses the ENTER key.

RAOB continually checks data entries for vertical consistency and against standard wind data relationships.