RAOB – How to quickly plot a Time-Height Diagram, using a multi-sounding file of soundings containing necessary DTG* (date-time-group) information ...

1. Start RAOB, then enter the Cross-Section mode using the Displays menu (or F6).

You could now select File, then "Auto-Load This Cross-Section" to automatically open RAOB in this diagram mode.

- 2. Select File, then the "Create a New Cross-Section" option.
- 3. Select "Time Cross-Section" for a Time-Height diagram.
- 4. Select the "Quick load entire DTG enabled file" button (see image below).

XAOB Cross-Section			
File Edit Displays Analyze Refre	esh Zoom	Interpolate Options Help	
Create a New Cross-Section	Ctrl+N	the second s	
Open an Existing Cross-Section	Ctrl+O		
Auto-Update Current Cross-Section	Ctrl+A	Y Create a New Cross-Section	X
Properties Auto-Load This Cross-Section	F2	Select Diagram Type © Time Cross-Section O Distance Cross-Section O Blank Diagram	
Print Image Save Image to File Copy Image to ClipBoard	CAI+5 CAI+I CAI+C	All soundings must have the same coordiantes.	
Exit			

5. After you identify which datafile you want to use, you will then see RAOB load and pre-process all soundings in your datafile as it creates a diagram dataset. Depending on how many soundings are in your datafile, this process will take a few seconds.

6. You will then be prompted to enter a filename for the time-height diagram dataset, which can quickly be recalled at a later time by using the File menu's "Open an Existing Cross-Section" option.

- 7. Your newly named time-height diagram will then be plotted.
 - 7a. You can now select the Analyze menu (or with your mouse just right-click anywhere to the left of the diagram boundary) to select various analyses.
 - 7b. You can also adjust the diagram using the Options, then Diagram Options Menu (or just right-click the mouse anywhere over the diagram).
 - 7c. You can also plot a mini-Sounding of any of the diagram's component soundings by moving the mouse over the diagram until a "hand" shaped mouse pointer appears, and left-click the mouse.

^{*} DTG enabled files are those soundings that contain date/time information in the following format ... YYYY-MM-DD HH:NN:SS (where N = minutes)