

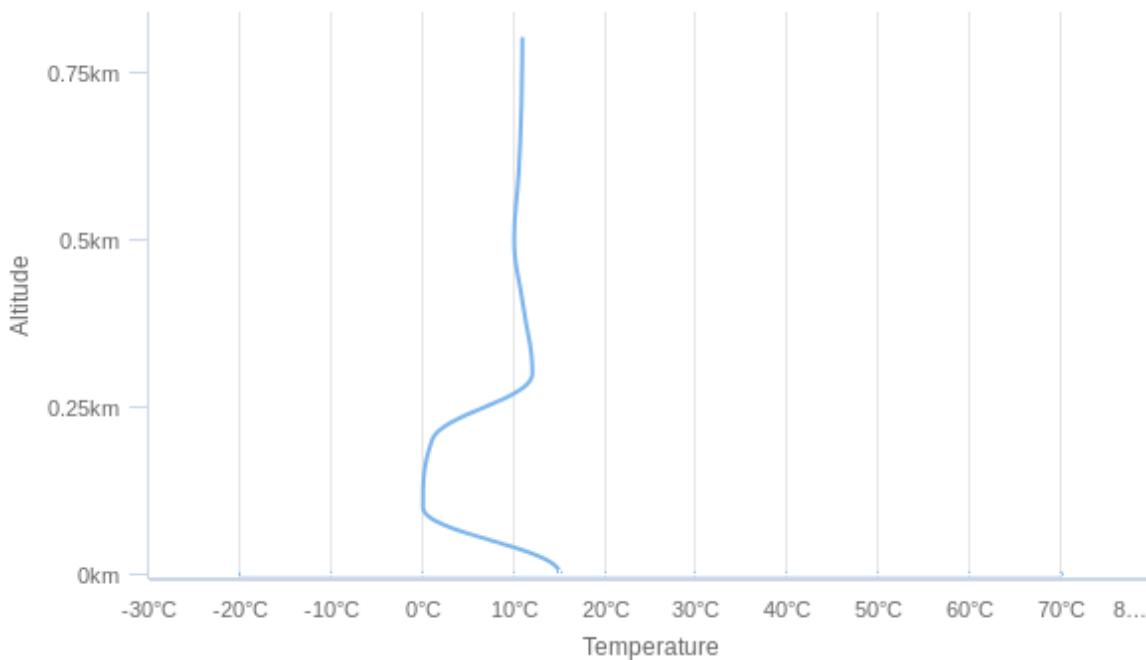
Du kan inte återanvända denna.

Graphs for Windsond

Sparv Embedded is developing the next generation of software for our miniature radiosonde Windsond. The app will first be released for Android tablets, and in the end also support smartphones, Mac, Windows and iPhones. Now we would like to get your input for the best user interface possible to visualize the weather data.

We would appreciate your input on what different graphs and other forms of data representation to produce and use in the application, as it relates to your field of work.

How useful would the following form of graph be to you? This can represent different measurements at different altitudes.



1 2 3 4 5

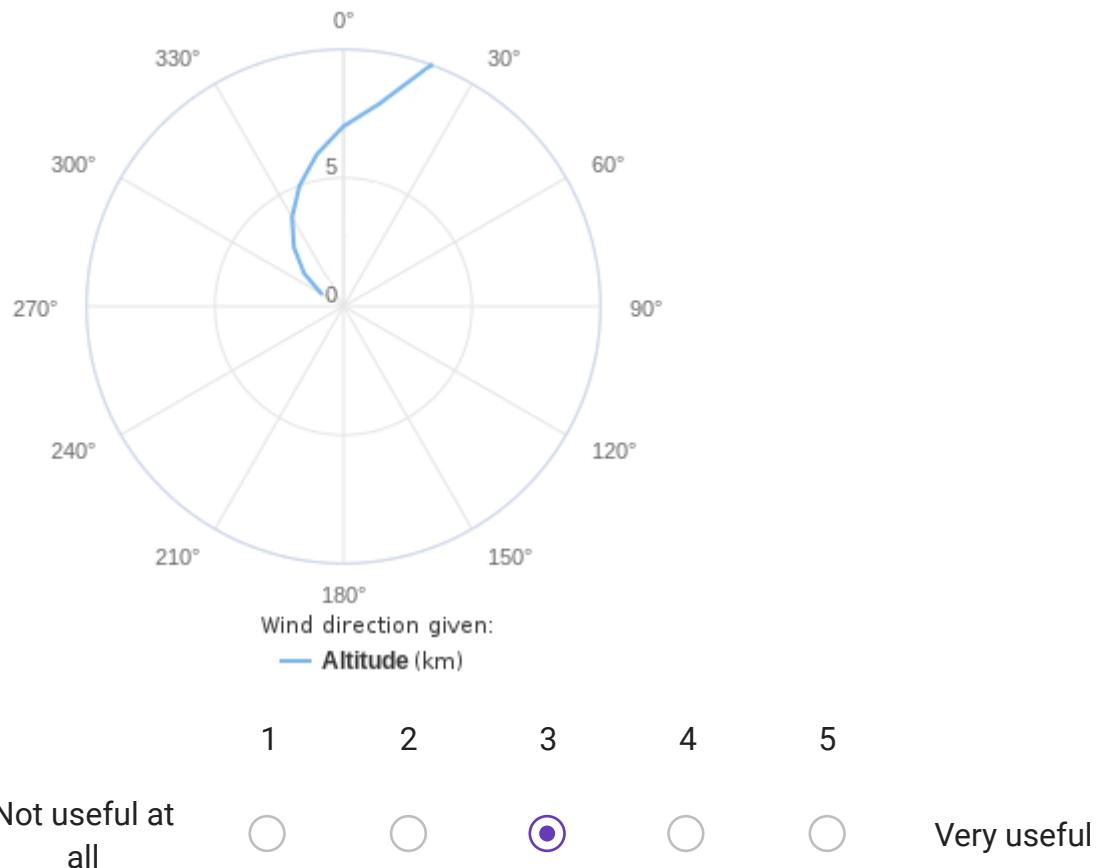
Not useful at
all



Very useful

Would you like to change something about the above visualization?

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

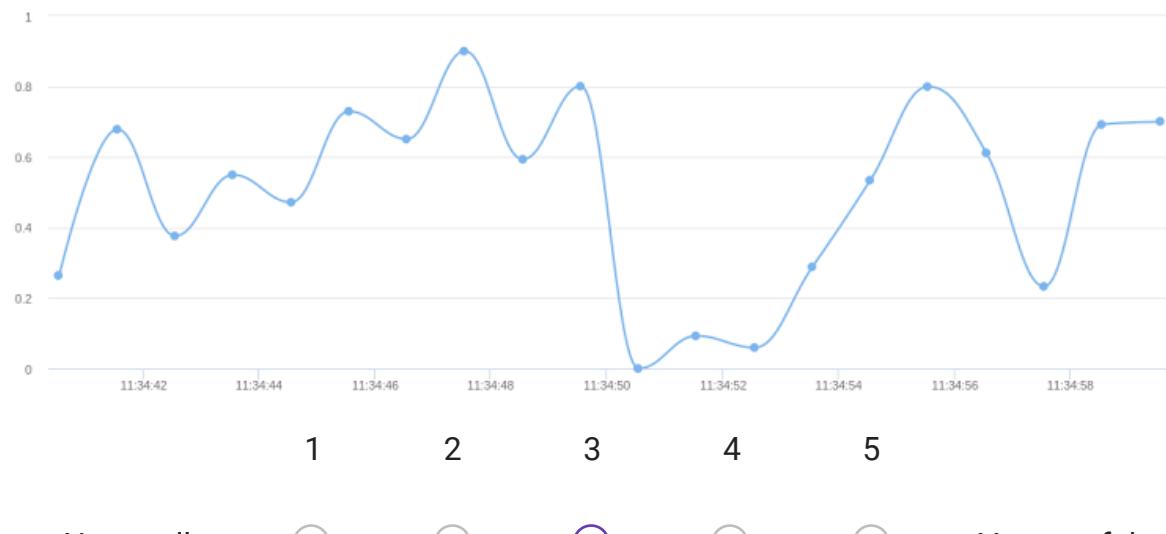
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time,      position (lat, lon), altitude, wind spe
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06m12s625: 40459047,-111487811, 1850,      3.90,
06m09s632: 40459078,-111487732, 1838,      4.60,
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1 2 3 4 5

Not useful at all Very useful

How useful would this form of graph be to you? It displays different measurement parameters over time.



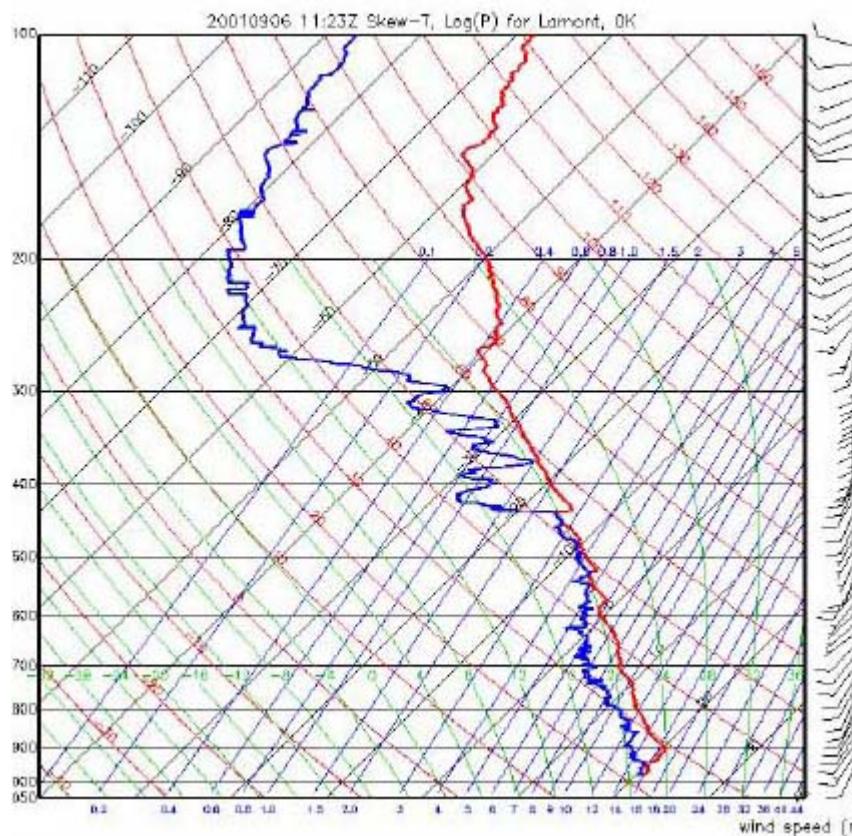
How interested are you in the sonde's current position and status, in contrast to the measurement series?

Latest measurements:

Position: 40458838, -111488299 (lat, long)
Altitude: 1935 (MSL)
Wind speed: 4.90 (m/s)
Wind direction: 56.6 (true degrees)
Temperature: 24 ($^{\circ}$ C)

1	2	3	4	5	
Not interested	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
					Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
					Very useful

In what ways would you access the data?

- Visual representation in the app
- Text in the app
- Send as email
- Transfer to memory card
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- Online (cloud) storage accessible through the app
- Google Drive / Dropbox / etc.
- Övrigt:

Comments on data access

.....

Other comments or wishes for visualizations (describe here, or e-mail to [\[REDACTED\]](#))
.....

What's your name and/or your organization?

[REDACTED] TEST
.....

Thanks for your help from us at Sparv!



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Google Formulär

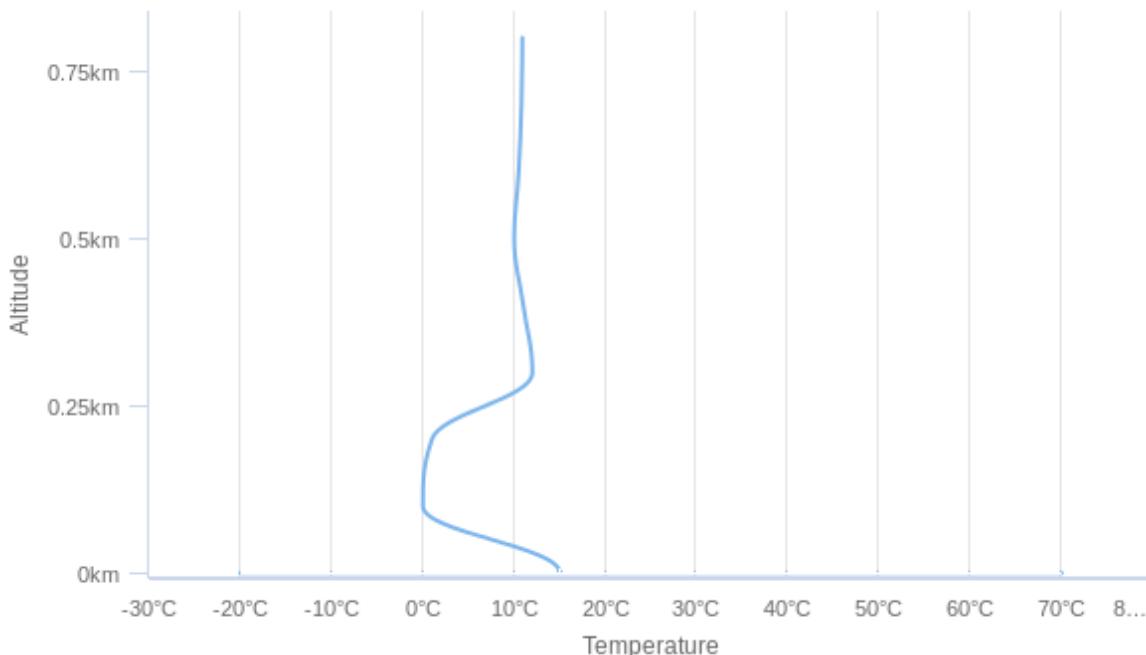
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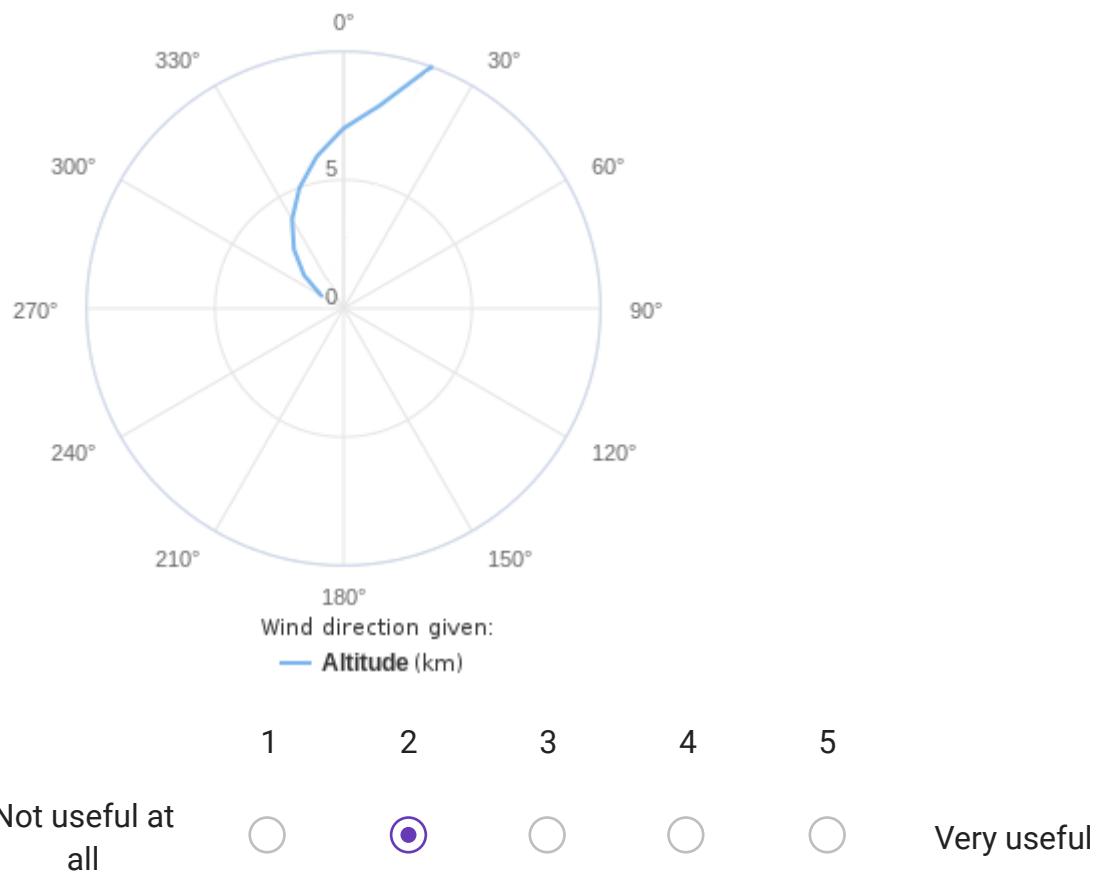
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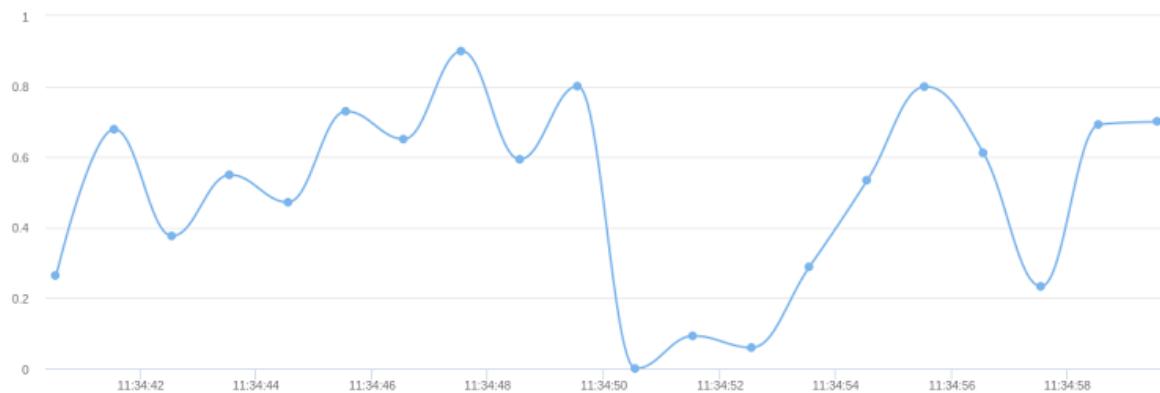
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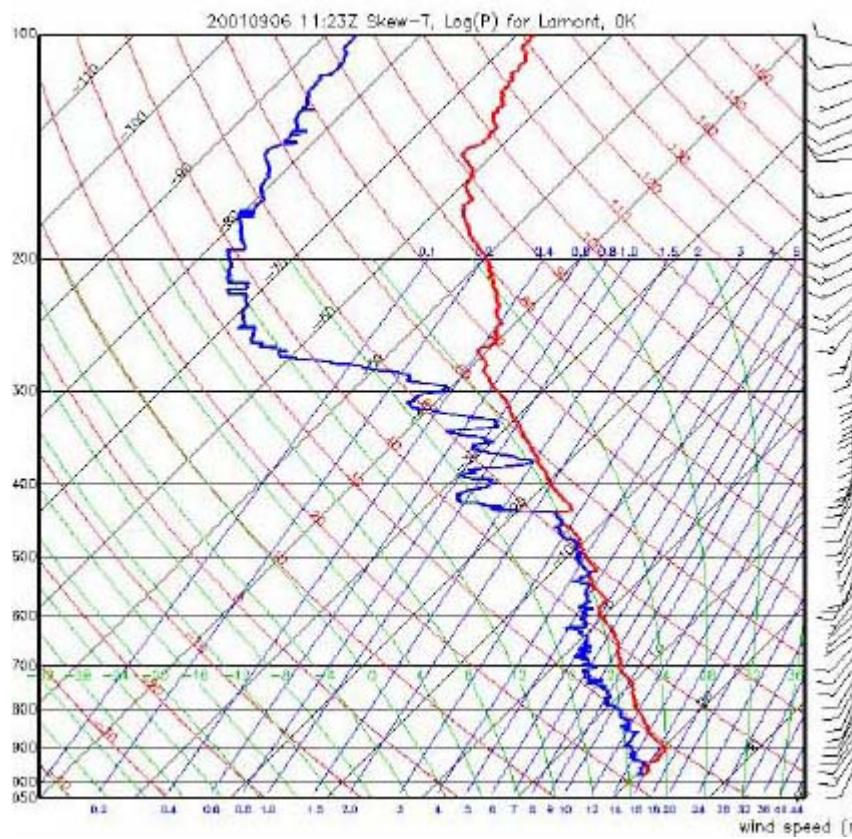
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These are great additions!! I am trying to figure out what the middle graph (above the skew-t) is plotting. Is it a plot of altitude vs time? The y-axis is not labeled (that I could see), so I am not sure what this plot is? If it is a plot of height over time, why would the balloon drop and then rise again?

.....

What's your name and/or your organization?

[REDACTED]

.....

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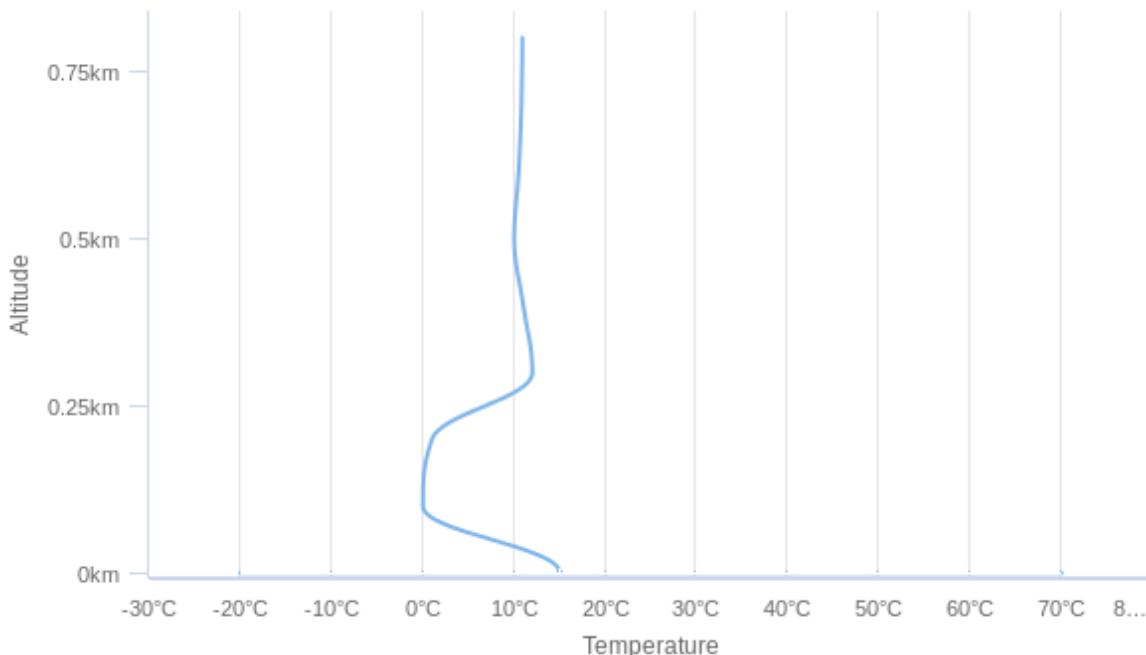
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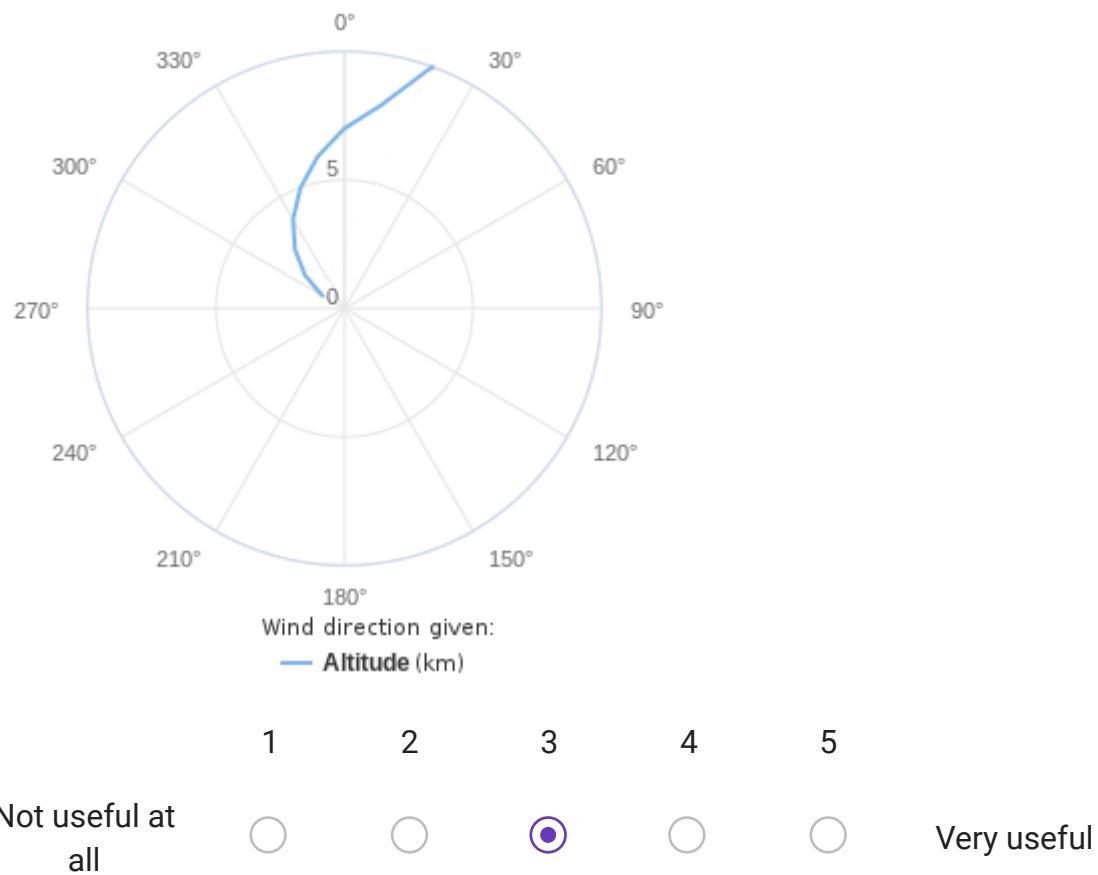
Not useful at
all

Very useful

Would you like to change something about the above visualization?

Altitude scale in ft/m/km user-defined; also MSL and AGL; need horizontal grid lines; variables easily changed; if wind direction variable make scale 0 to 360 degrees but also 16-point text as sub heading (N, NNW, NW, WNW, W, etc.); make sure wind direction is clear as Met direction (from) or Heading (to).

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

Some meteorologists like hodographs which are kind of similar and show other info like Skew-T variables.

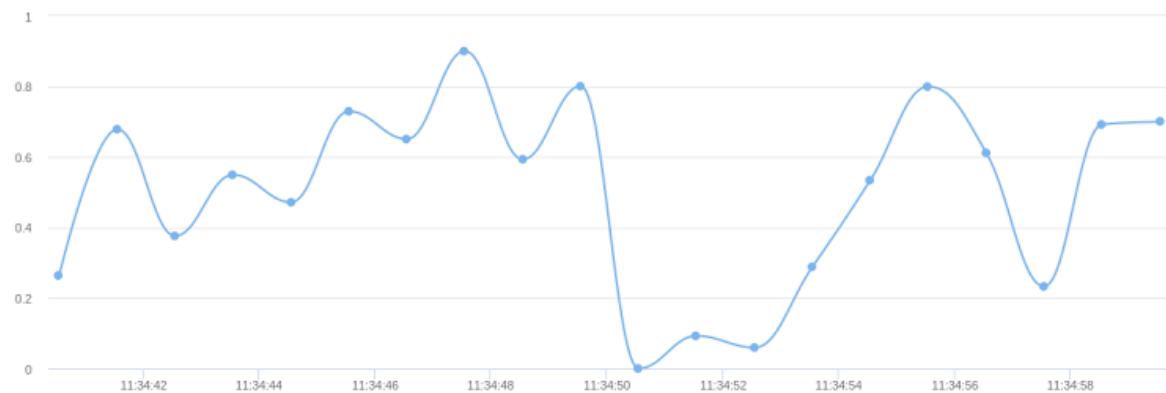
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1 2 3 4 5

Not useful at all Very useful

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1 2 3 4 5

Not at all Very useful

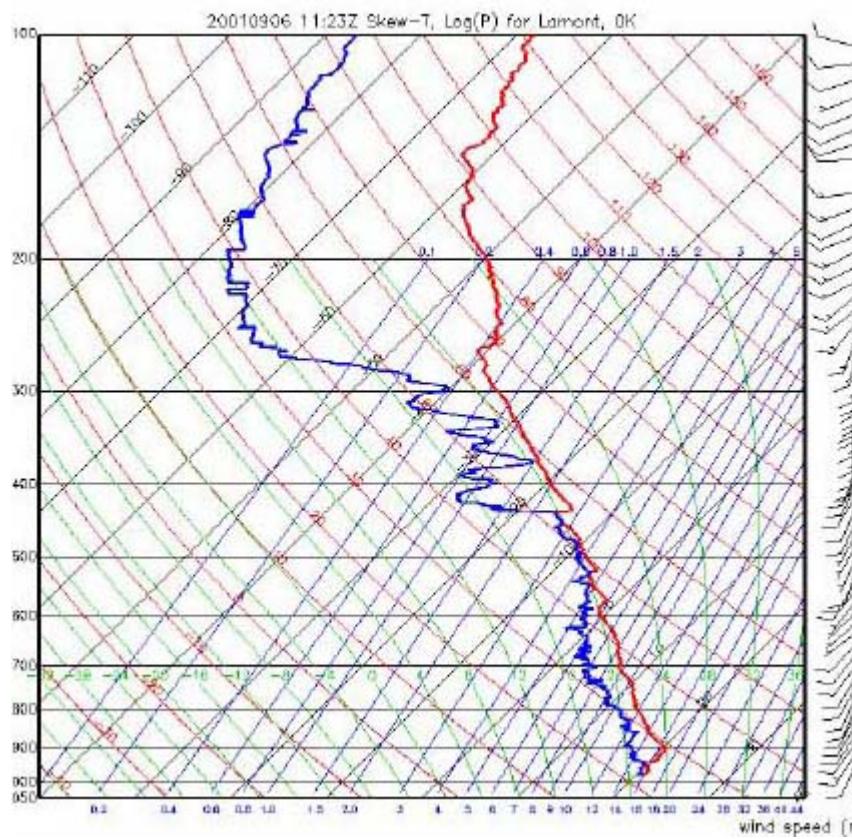
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1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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How useful would skew-t graphs be to you?



1	2	3	4	5
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- Övrigt: Mac/iPhone Notes

Comments on data access

User-defined text output for order of variables, units of measure, etc.; easier than the current template process; time series with user-defined time increments; in the current position data include distance, heading, and sonde receiver status; Skew-T format would be very useful, but not as much with the low level data from current mini-sondes (really need to get to tropopause for Skew-T to be of value).

Other comments or wishes for visualizations (describe here, or e-mail to [REDACTED])

Anders, you all are doing great work. All my thoughts on different aspects come down to allowing the user to choose format, variables, and units easily. On a side note, need to make sondes slightly more robust and easier to access battery plug.

What's your name and/or your organization?

Thanks for your help from us at Sparv!



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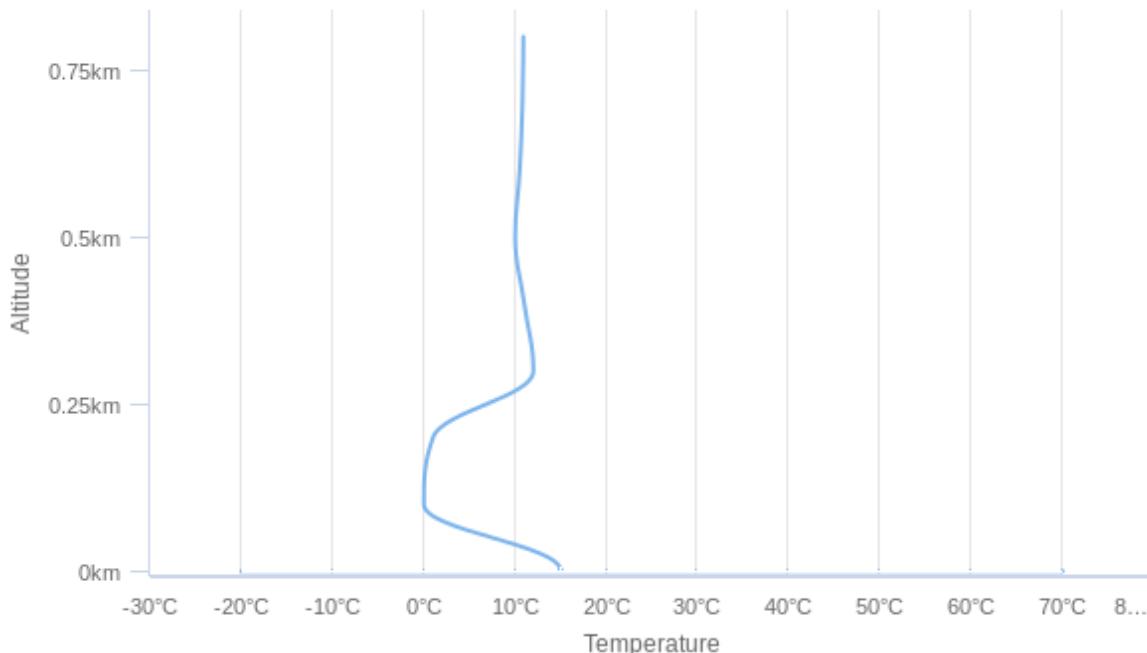
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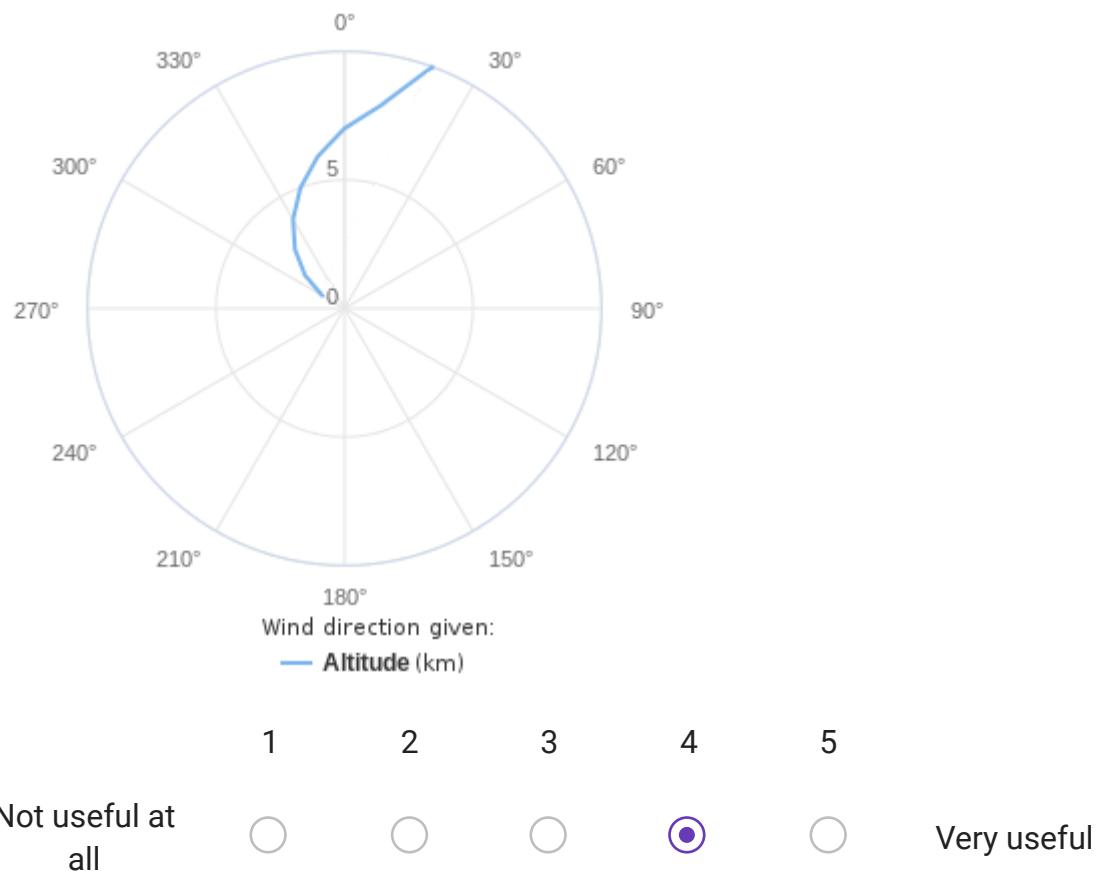
Not useful at
all

Very useful

Would you like to change something about the above visualization?

user defined x axis

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

user ability to control altitude range displayed with altitude label interval selectable

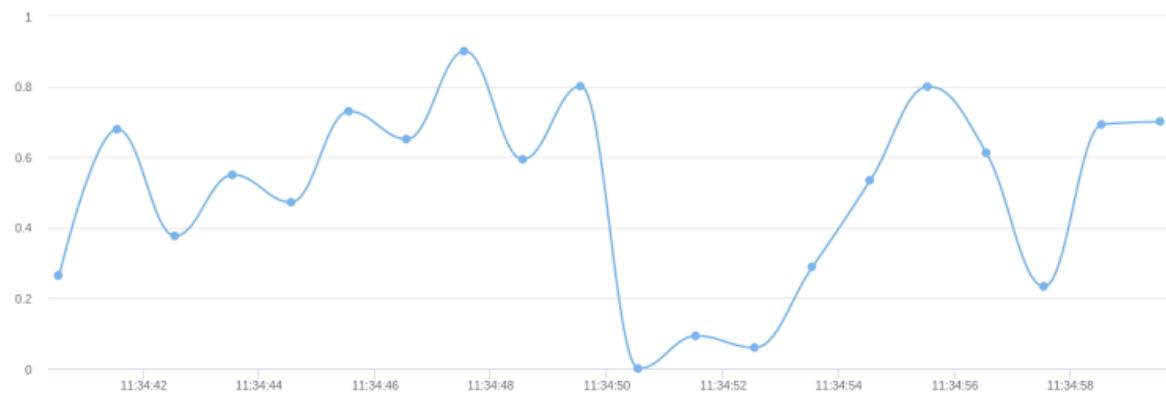
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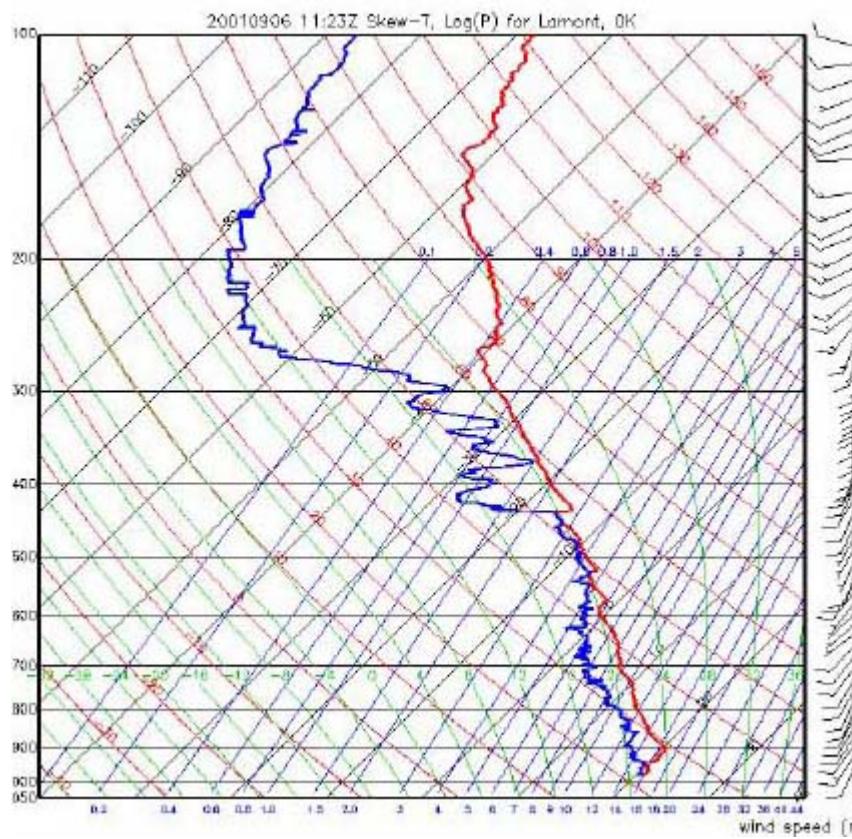
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1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
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- Övrigt:

Comments on data access

main message is don't fix the ranges for the plots, but allow the user to adjust to make them more readable. skewt should be viewable for lowest part of atmosphere only for example

.....

Other comments or wishes for visualizations (describe here, or e-mail to [\[REDACTED\]](#))

.....

What's your name and/or your organization?

[REDACTED]

.....

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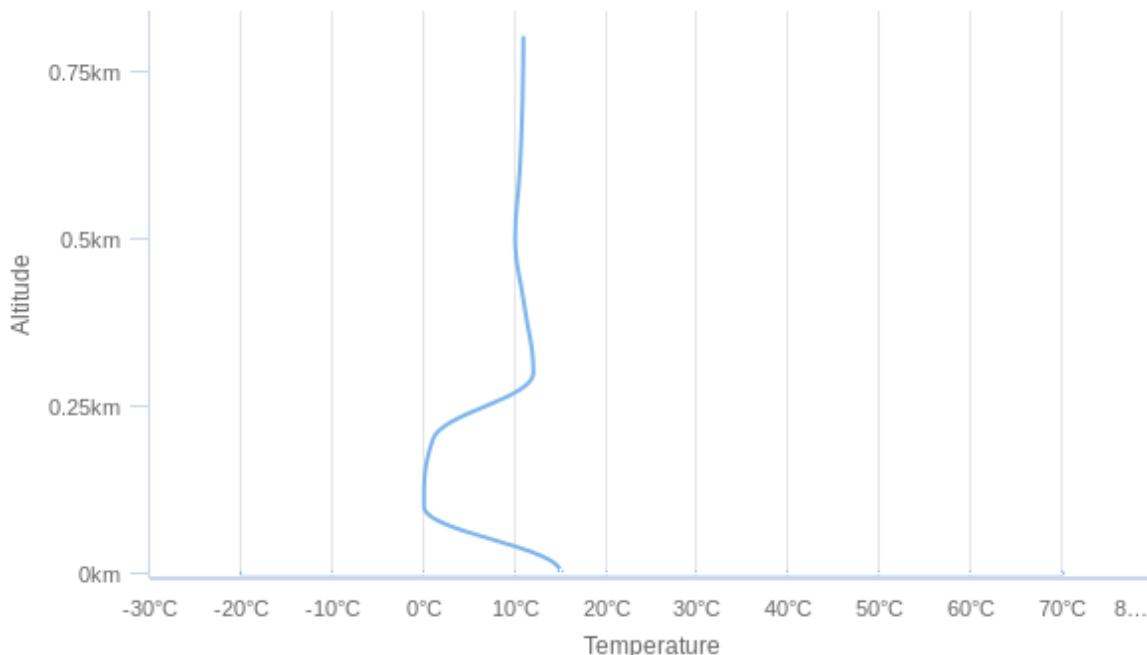
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1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	Very useful			

Would you like to change something about the above visualization?

I would add the dewpoint trace to this graph as well.

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

No

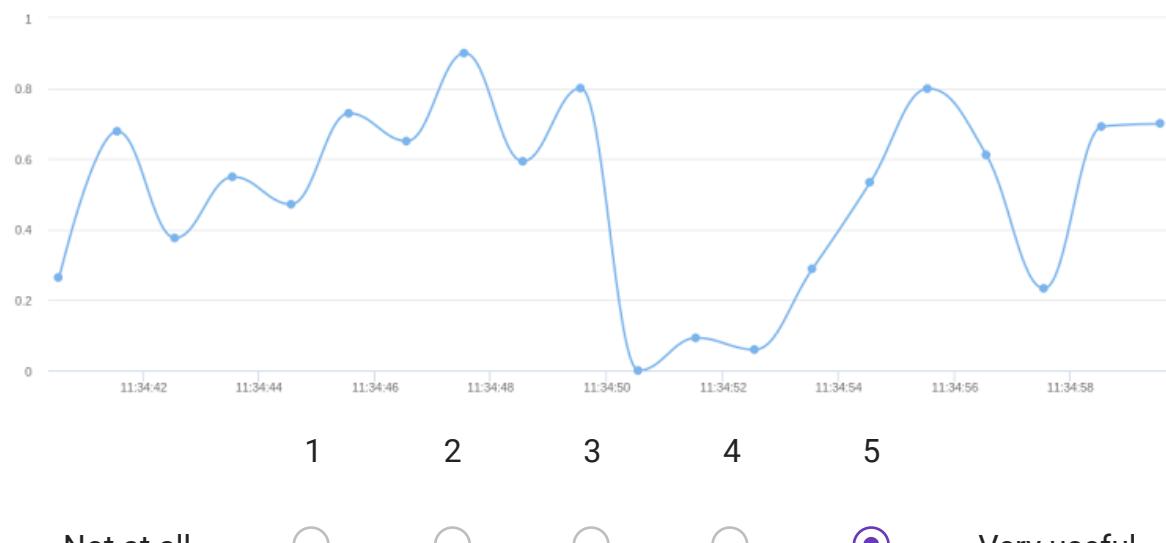
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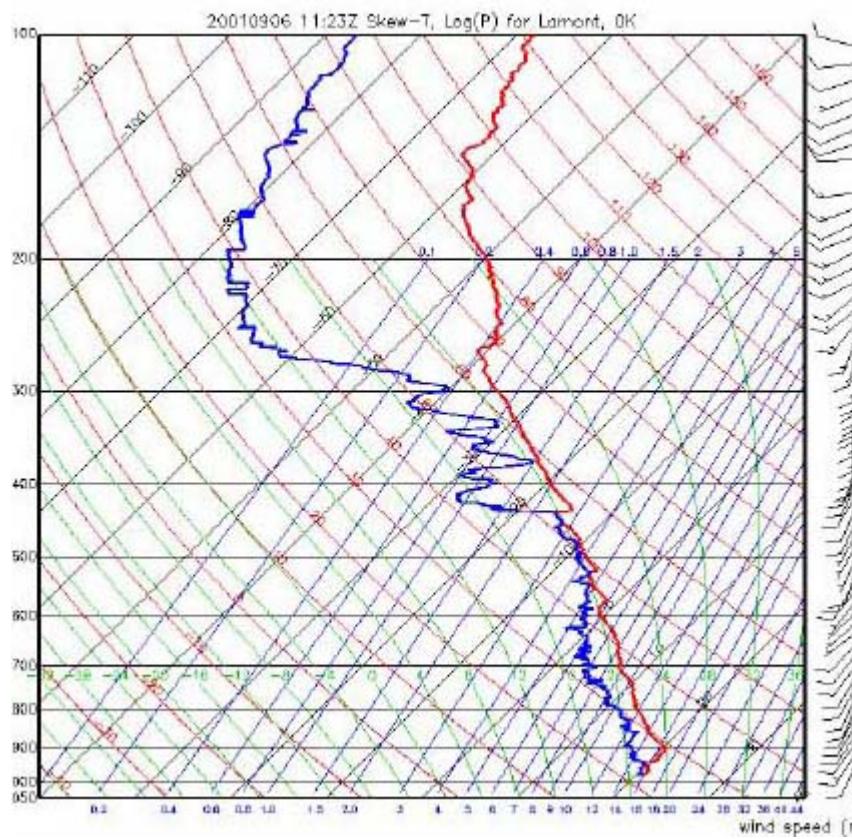
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Övrigt:

Raw data files that can be stored on a web server. Different visualizations of the data can be generated on a web page with PHP scripting.

Comments on data access

We'd also like to retain data files in an online archive for post-event analysis, trending and training.

Other comments or wishes for visualizations (describe here, or e-mail to [\[REDACTED\]](#))

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[REDACTED]

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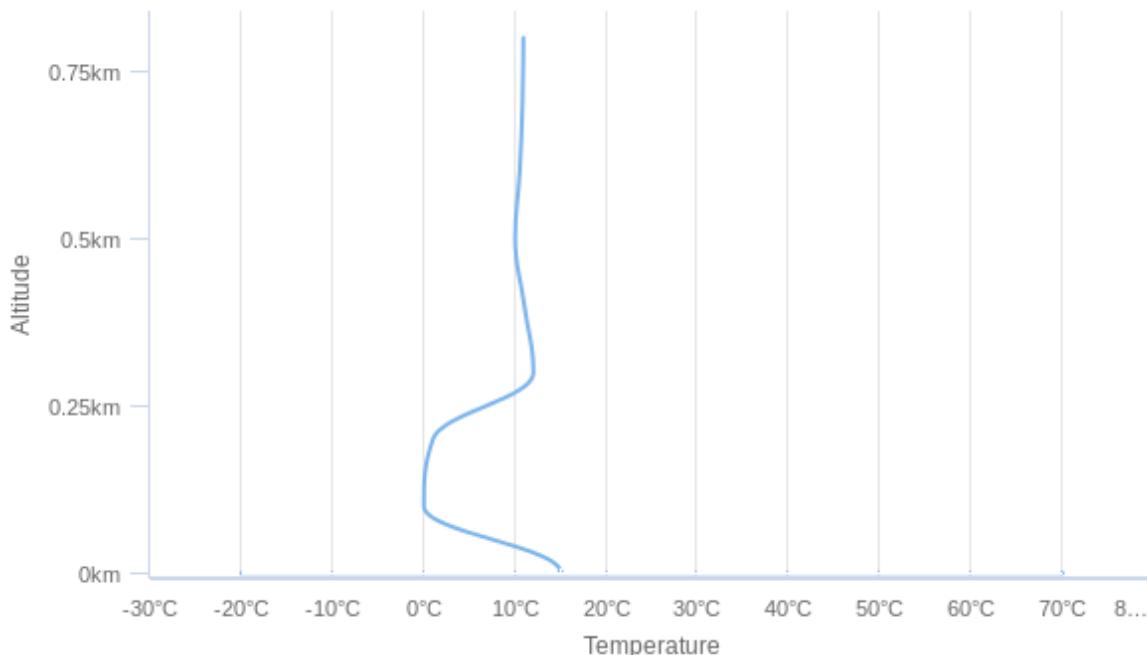
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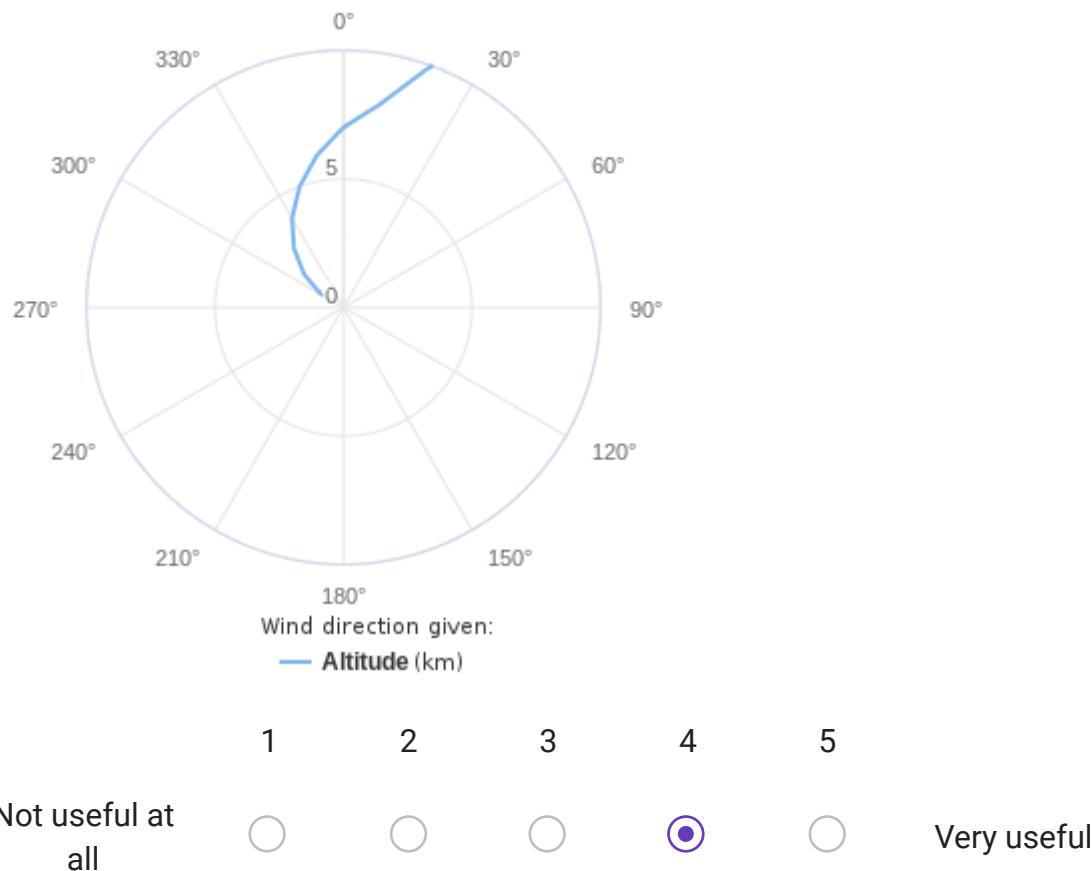
1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> Very useful

Would you like to change something about the above visualization?

Stretch the x-axis to cover measured range, not technical possible range, in the display above, -10 to +20 would be enough. Add a + sign to the positive values.

Use same format (and number of digits) for altitude, maybe 250, 500, 750 meters instead of 0,25 0,5(0) and 0,75 km. Use km scale only if you go like 20km. Beyond that I would suggest meters or feet. Aviation also uses feet a lot.

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

Your intro "at each altitude" – I cannot follow how you would read altitude from that chart. Even in the legend: Blue Line = Altitude (km) does not really help, and is confusing with the text above (wind direction given). – where "given" should probably mean "observed" or so? The word "given" confuses me.

Sure, one line has both dimensions in it, but then there is no simple & single explanation in the legend for that.

My suggestion: different colors or marks for a couple of feet, like a little dash perpendicular to the blue track for each 500 ft or 250 meters?

I see that the two circles try to convey the altitude, but that is hard to understand with only the 0 and 5 markings in there. Maybe different color for font that shows altitude, and maybe more rings that show more intermediate altitudes...

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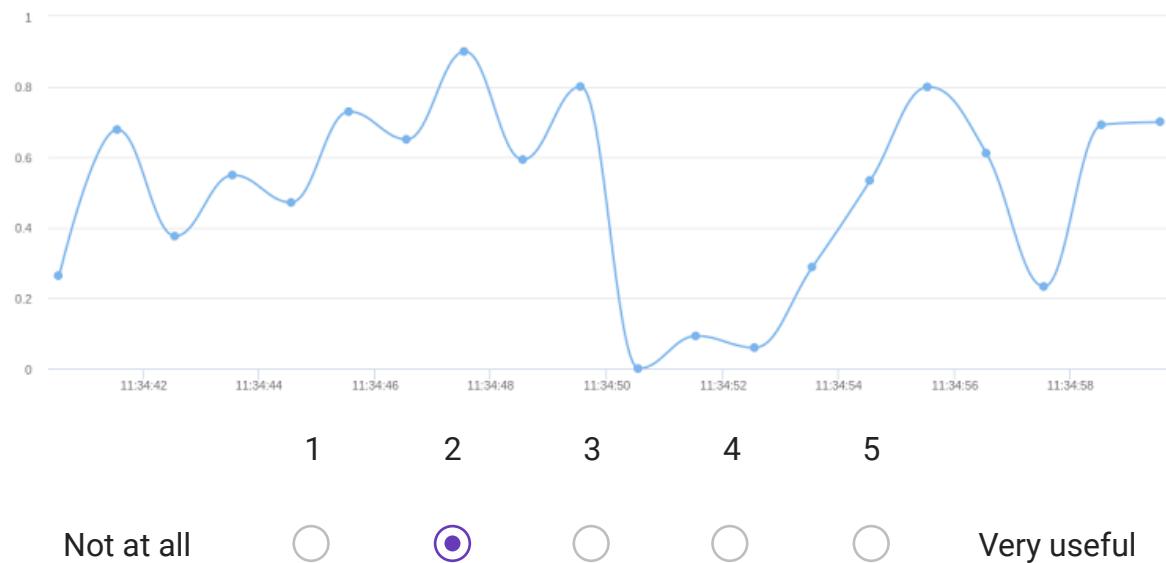
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Very useful

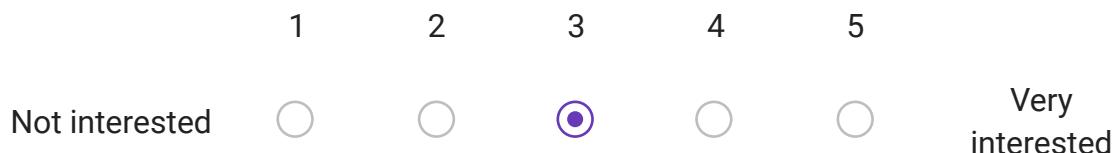
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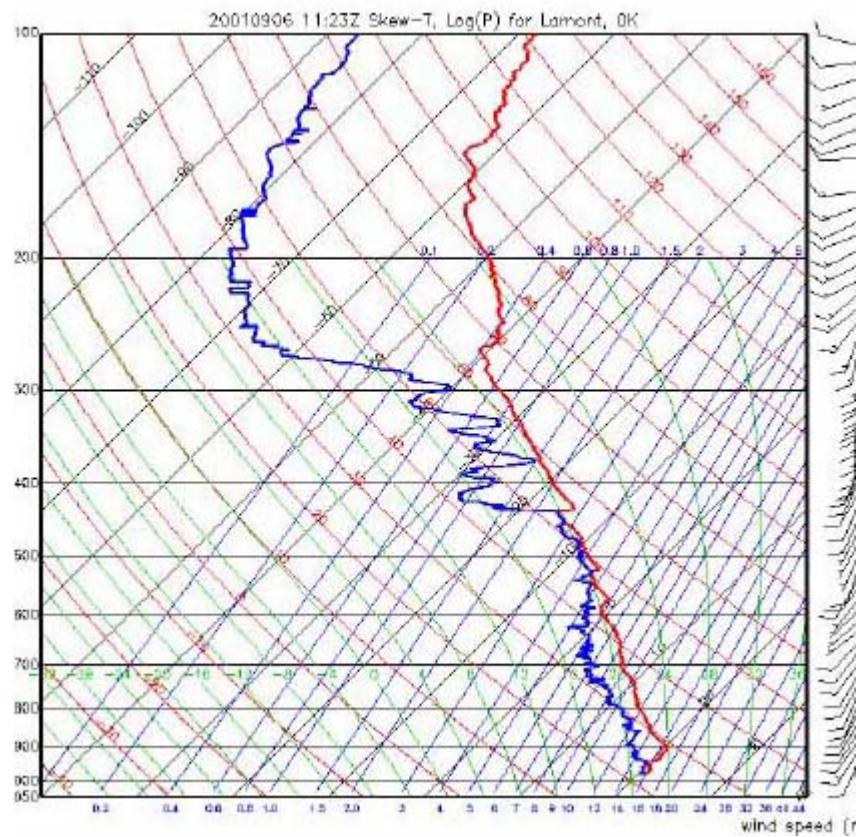
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- Övrigt:

Comments on data access

Would make sense to share a Windsond reading, especially from ground to balloon. Or event to a few balloons (of a team).
One way would be text messages (works in a short burst and therefore quite good for the uplink to the balloon).
E-Mail also for asynchron Communication.
Some raw data over a Internet link sent to a partner app and for displaying would make sense, too. In other words, a remote receiving display for the balloon would make sense for my application. Near realtime, no hassle.

Other comments or wishes for visualizations (describe here, or e-mail to [\[REDACTED\]](mailto:...))

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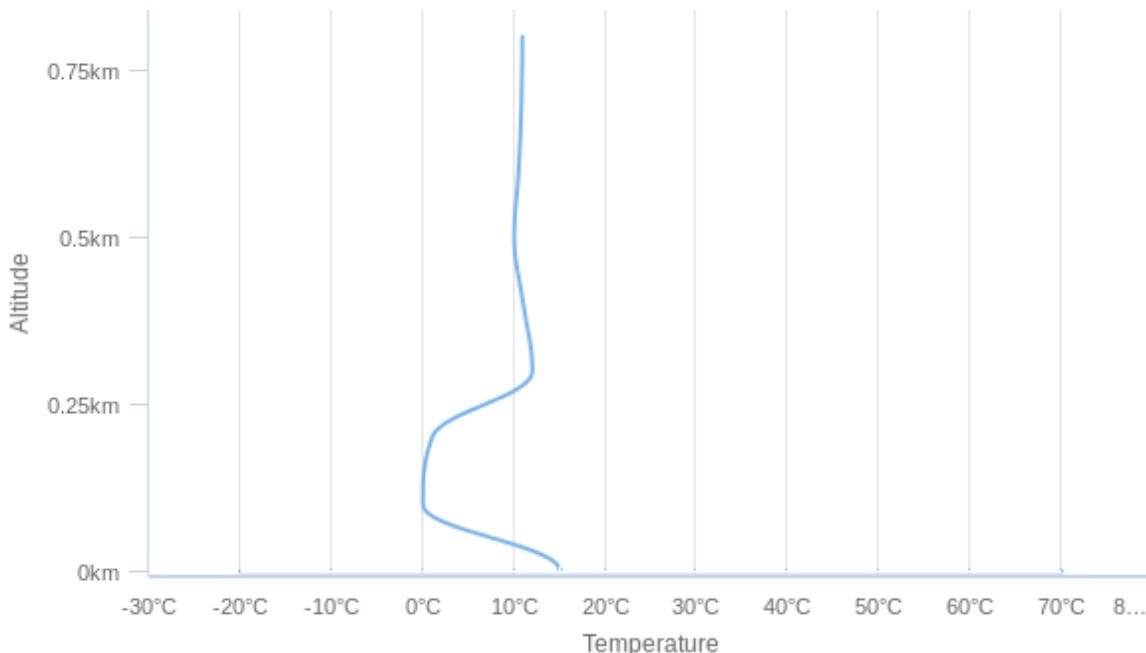
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1 2 3 4 5

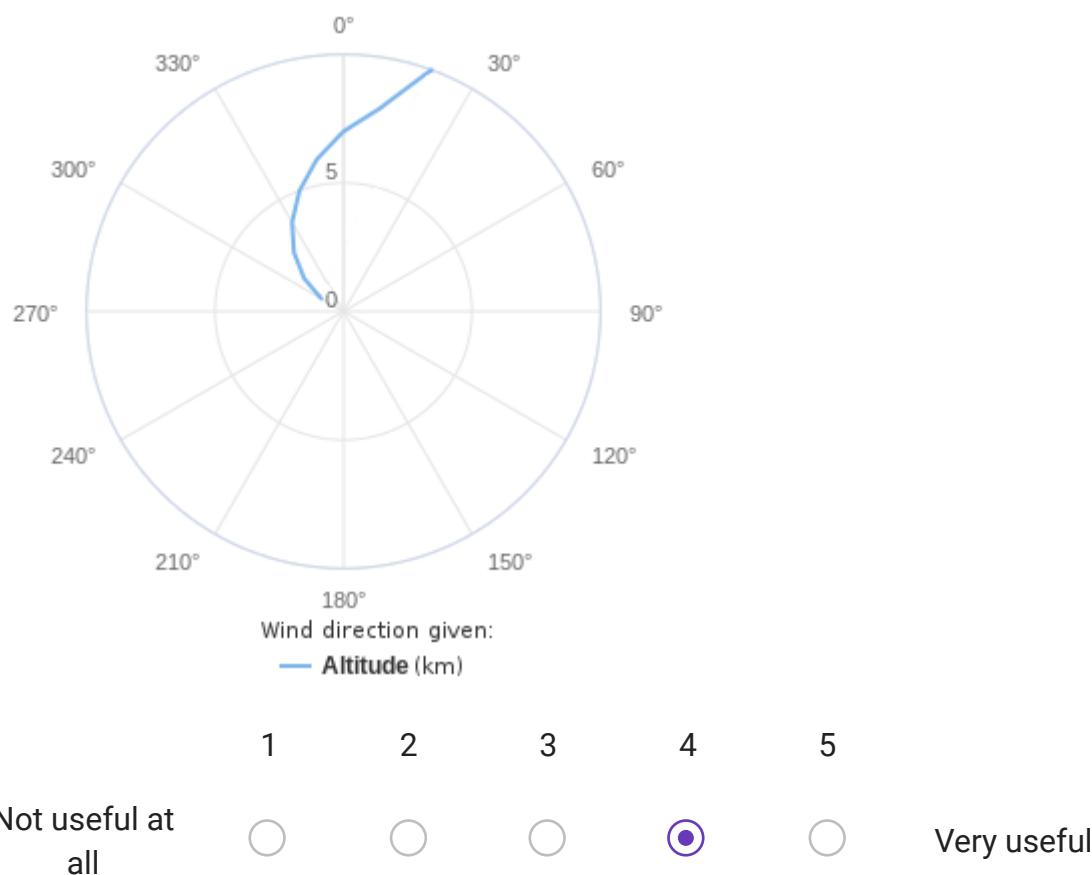
Not useful at all

Very useful

Would you like to change something about the above visualization?

I'd be interested in potential temperature for looking at inversions. Even better would be a tephigram :-)

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

That's quite a good graph! Not sure I've seen one of them before. Possibly a hodograph would be good too (wind direction vs wind speed, sometime colour coded for altitude).

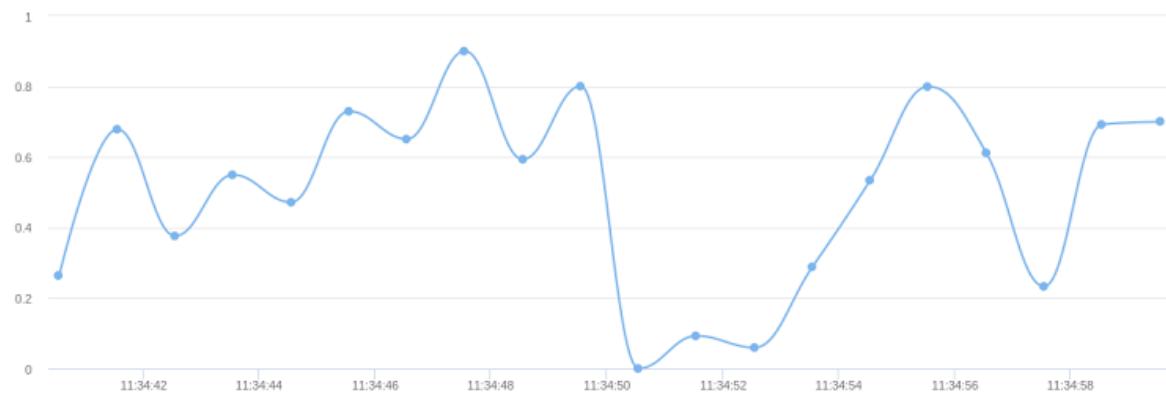
How useful would CSV output be to you? CSV formats can display different values (where you can select which are displayed) and be read by hand or be automatically processed. *

```
time,      position (lat, lon), altitude, wind spe
06m33s480: 40458838,-111488299, 1935,      4.90,
06m21s559: 40458906,-111488124, 1904,      4.40,
06m18s573: 40458951,-111488026, 1889,      5.60,
06m12s625: 40459047,-111487811, 1850,      3.90,
06m09s632: 40459078,-111487732, 1838,      4.60,
```

1 2 3 4 5

Not useful at all Very useful

How useful would this form of graph be to you? It displays different measurement parameters over time.



1 2 3 4 5

Not at all Very useful

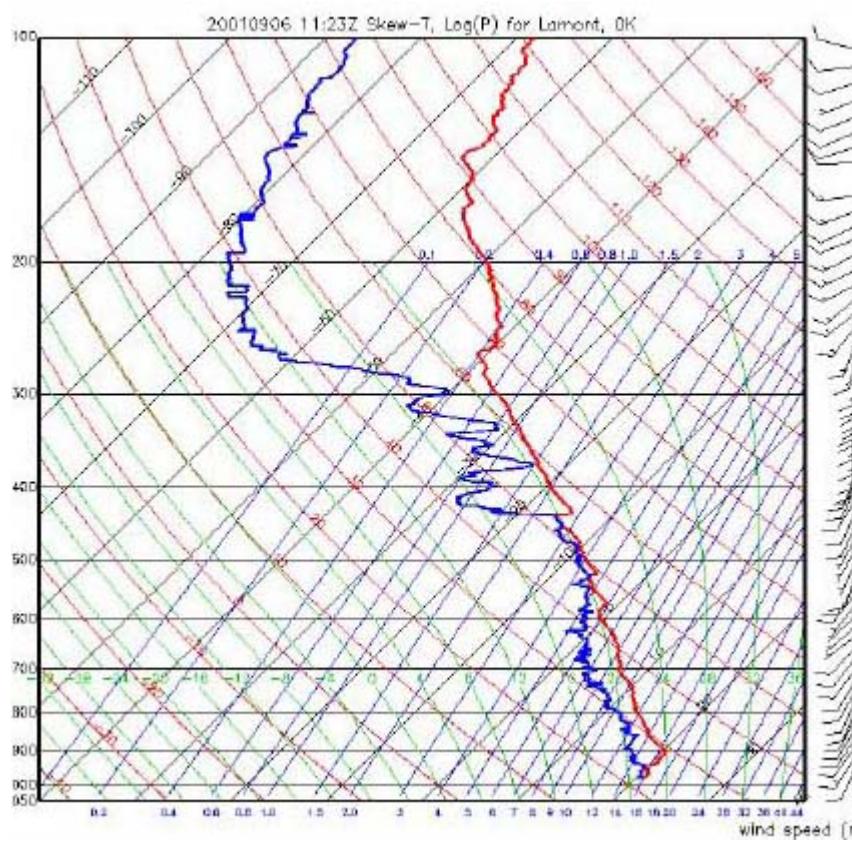
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Latest measurements:

Position: 40458838, -111488299 (lat, long)
Altitude: 1935 (MSL)
Wind speed: 4.90 (m/s)
Wind direction: 56.6 (true degrees)
Temperature: 24 ($^{\circ}\text{C}$)

1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
				Very useful

In what ways would you access the data?

- Visual representation in the app
- Text in the app
- Send as email
- Transfer to memory card
- Print to paper
- Online (cloud) storage accessible through the app
- Google Drive / Dropbox / etc.
- Övrigt:

Comments on data access

One thing I'm a big fan is data backup! This would be a great feature.

Other comments or wishes for visualizations (describe here, or e-mail to [REDACTED])

If launching two sondes at the same time, the ability to view them side-by-side or overlaid on top of each other.

What's your name and/or your organization?

[REDACTED]

Thanks for your help from us at Sparv!



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Google Formulär

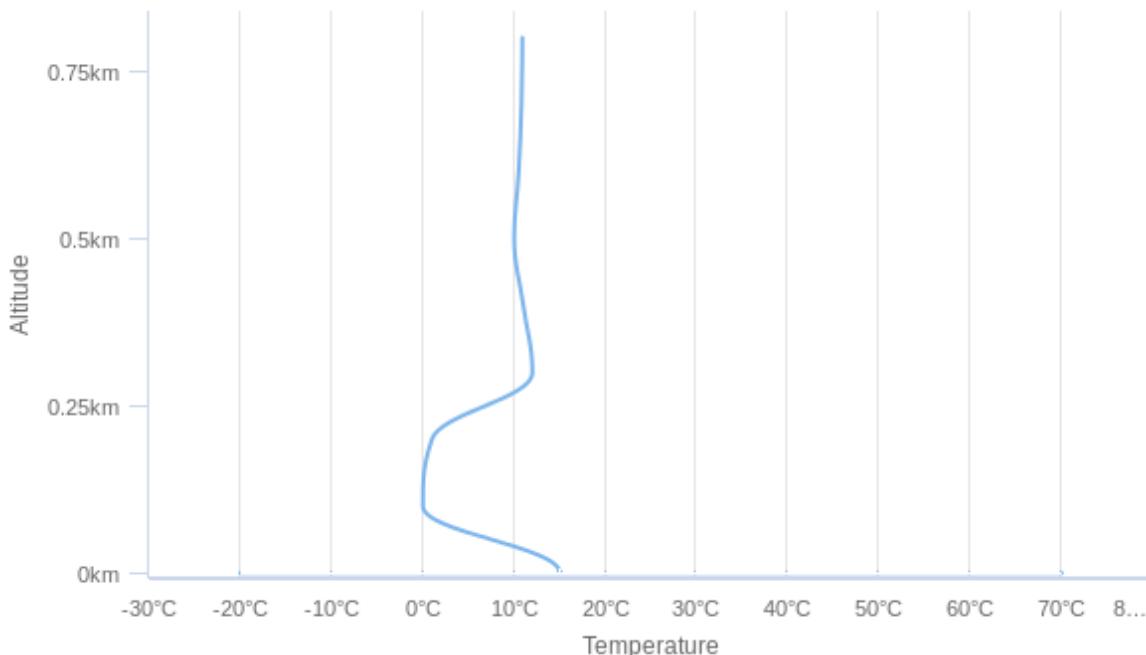
Det går inte att redigera svaren

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1 2 3 4 5

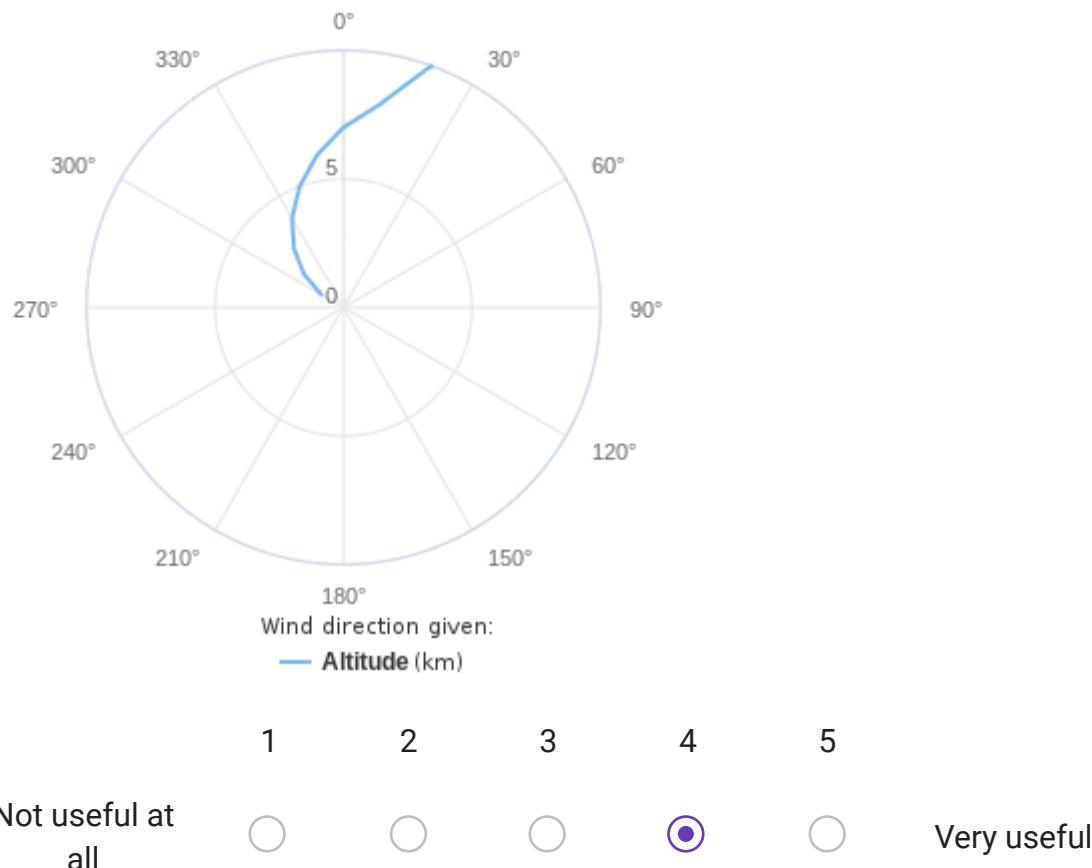
Not useful at all

Very useful

Would you like to change something about the above visualization?

Please add a "no smoothing" option. It would be great to add the dry adiabats / moist adiabats / mixing ratio lines or at least have the possibility to add them. Also an option to get temperature lines tilted 45° to the right could be useful, and scaled by 1°. All in all, something very close to the classic emagram / skew-t diagram would be great.

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

If you could add a wind strength vs altitude on a separate graph, it is something we tend to use to spot certain phenomenon.

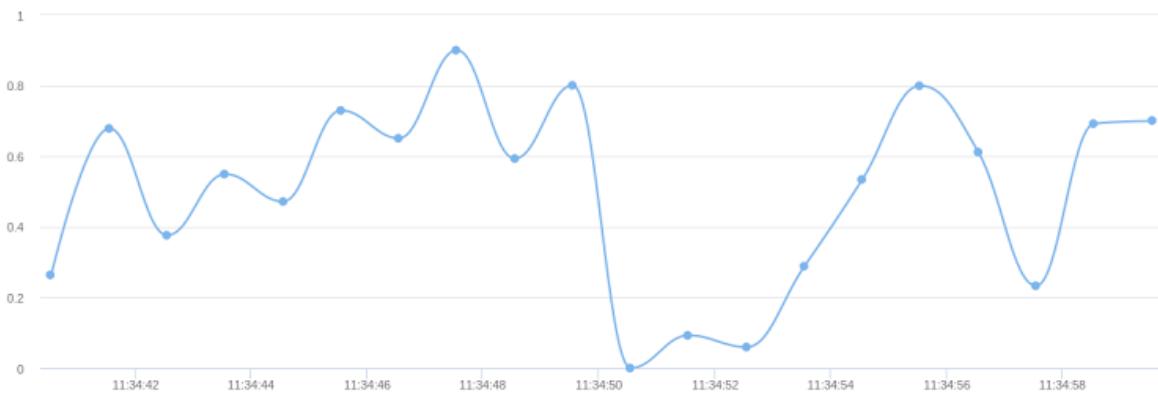
How useful would CSV output be to you? CSV formats can display different values (where you can select which are displayed) and be read by hand or be automatically processed. *

```
time, position (lat, lon), altitude, wind spe
06m33s480: 40458838, -111488299, 1935,      4.90,
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06m18s573: 40458951, -111488026, 1889,      5.60,
06m12s625: 40459047, -111487811, 1850,      3.90,
06m09s632: 40459078, -111487732, 1838,      4.60,
```

1 2 3 4 5

Not useful at all Very useful

How useful would this form of graph be to you? It displays different measurement parameters over time.



Not at all Very useful

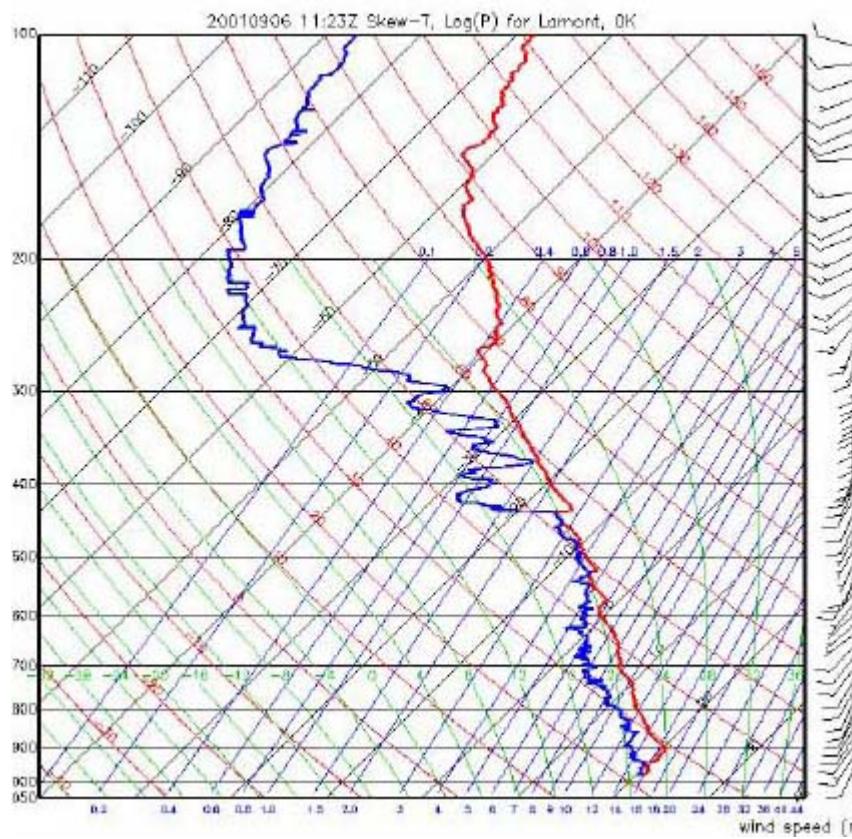
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Wind speed: 4.90 (m/s)
Wind direction: 56.6 (true degrees)
Temperature: 24 ($^{\circ}\text{C}$)

1	2	3	4	5
Not interested	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5	
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	Very useful

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- Övrigt:

Comments on data access

As I mentioned by email, I think the possibility to watch a specific sounding live through the app would be amazing. For instance, gliding pilots can watch the sounding as they prepare for a competition. The possibility to share the sounding you are making (via a world map? a common database?), maybe with a simple "private/public" option, could be very appreciated.

Other comments or wishes for visualizations (describe here, or e-mail to [REDACTED])

I am still gathering opinions on the matter, I will gladly email them to you by the end of this week (9/4/17). Many thanks for your work on this awaited app !

What's your name and/or your organization?

[REDACTED]

Thanks for your help from us at Sparv!



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Google Formulär

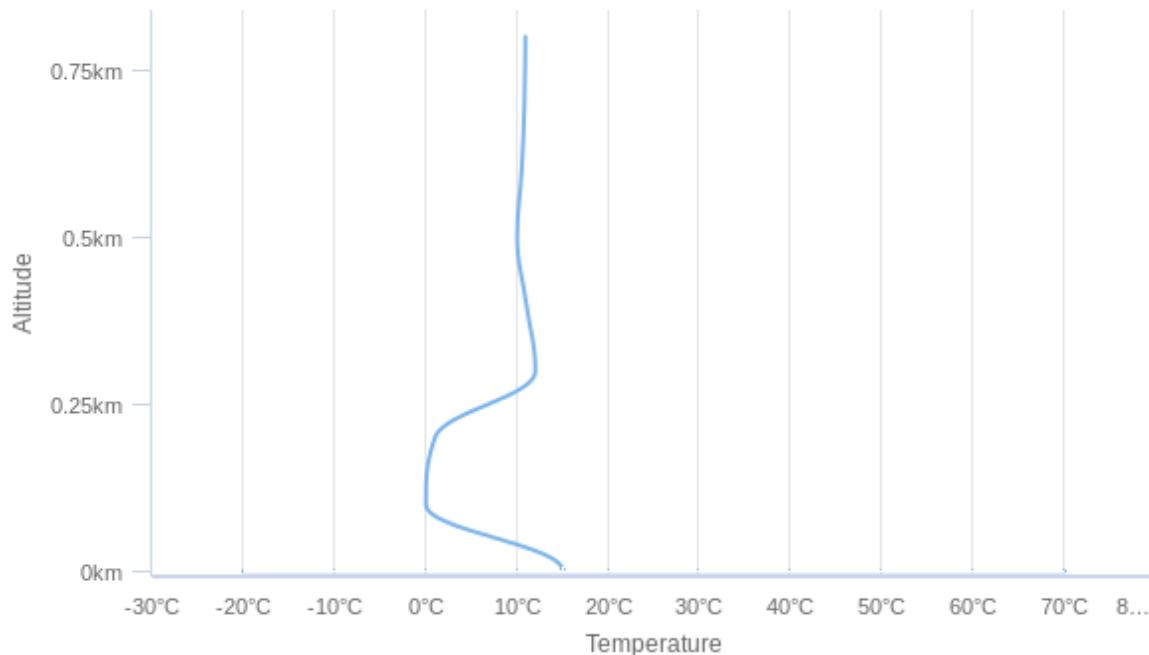
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1 2 3 4 5

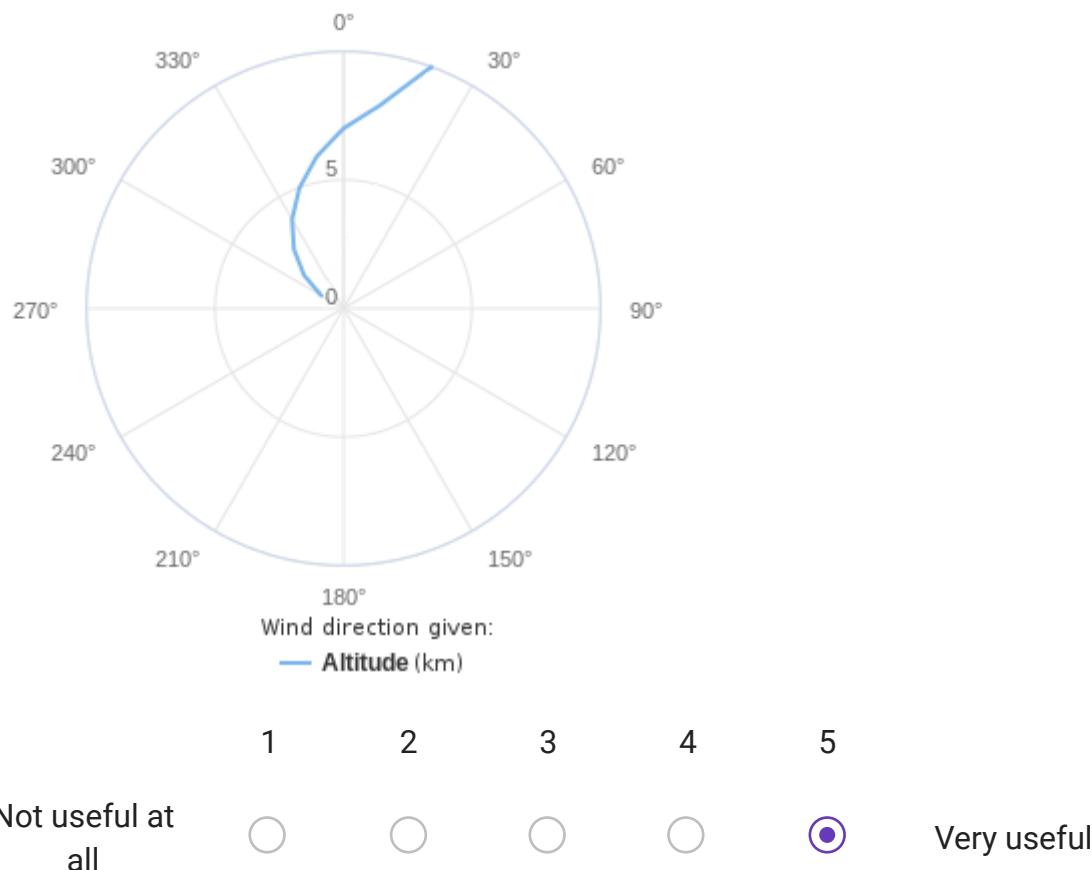
Not useful at
all

Very useful

Would you like to change something about the above visualization?

For the ammunition testing application we work in meters for altitude and military mils for direction (6400 mil = 360 degree).

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

Can you include an option to have the wind direction in military mils for direction (6400 mil = 360 degree).

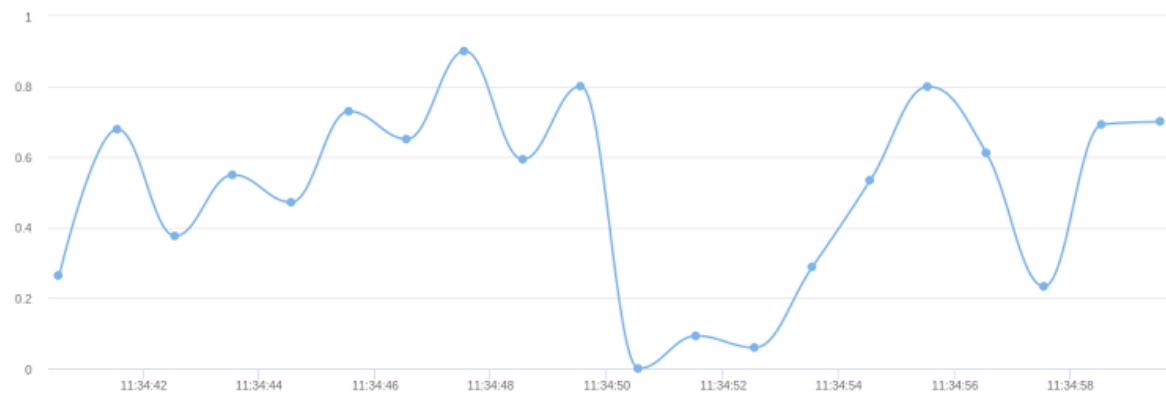
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```

1 2 3 4 5

Not useful at all Very useful

How useful would this form of graph be to you? It displays different measurement parameters over time.



1 2 3 4 5

Not at all Very useful

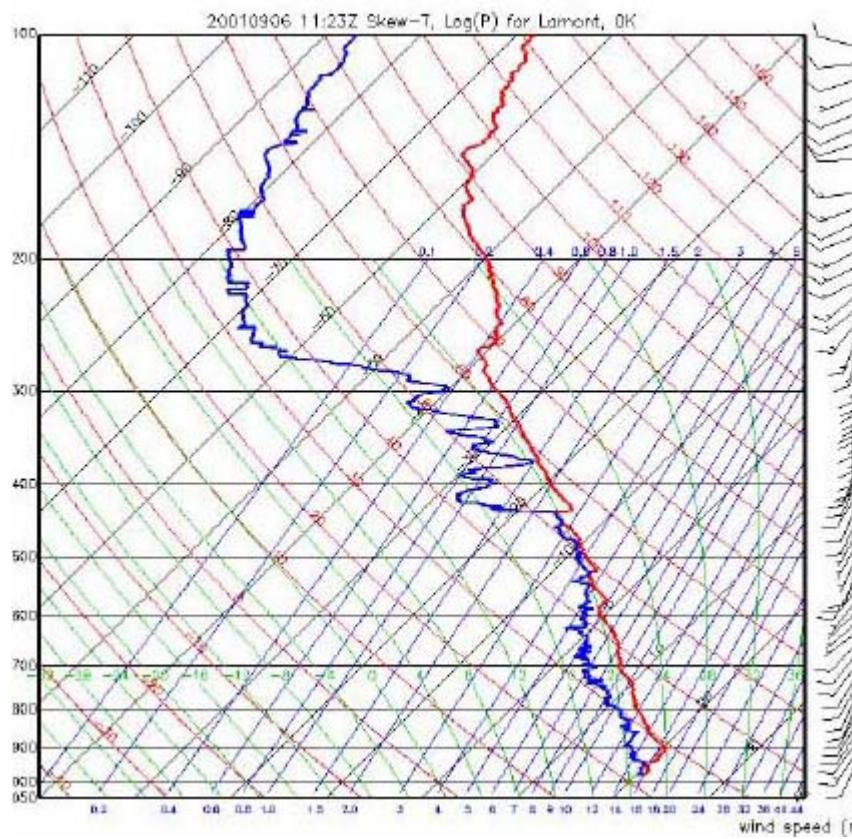
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1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
				Very useful

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- Övrigt:
NATO STANAG Metrological message formats (METCM; METB3 and METFM)
in printed form, .TXT file format and data exchange format with Thales ATLAS
weapon management system.

Comments on data access

[REDACTED]

[REDACTED]

[REDACTED]

Other comments or wishes for visualizations (describe here, or e-mail to [REDACTED])

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[REDACTED]

[REDACTED]

Thanks for your help from us at Sparv!



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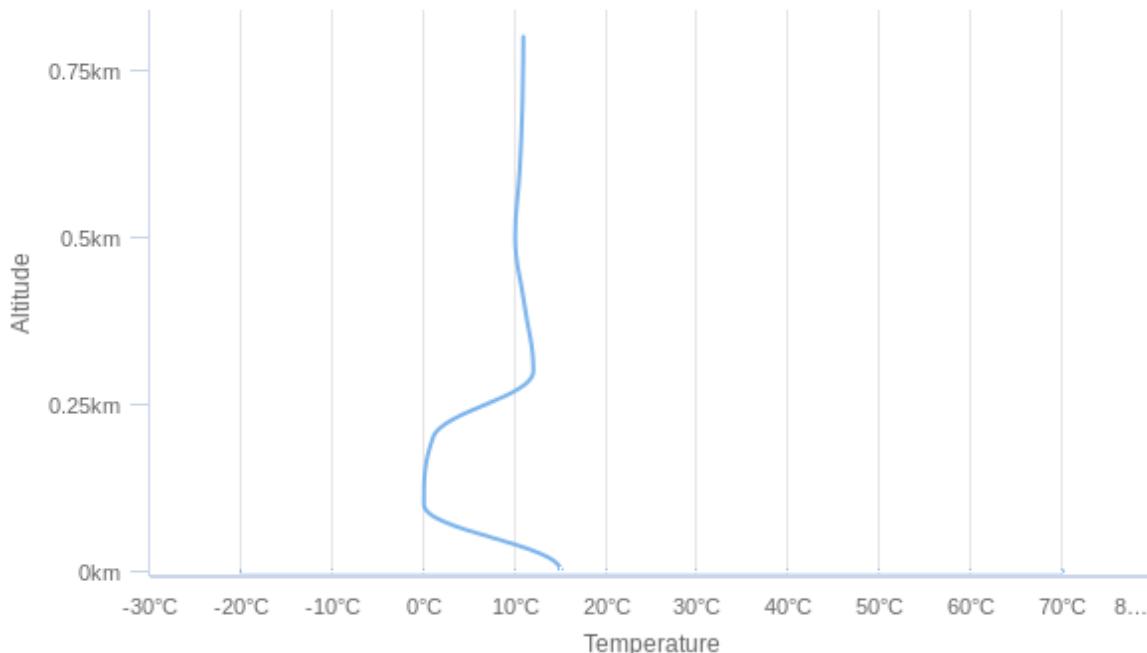
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1 2 3 4 5

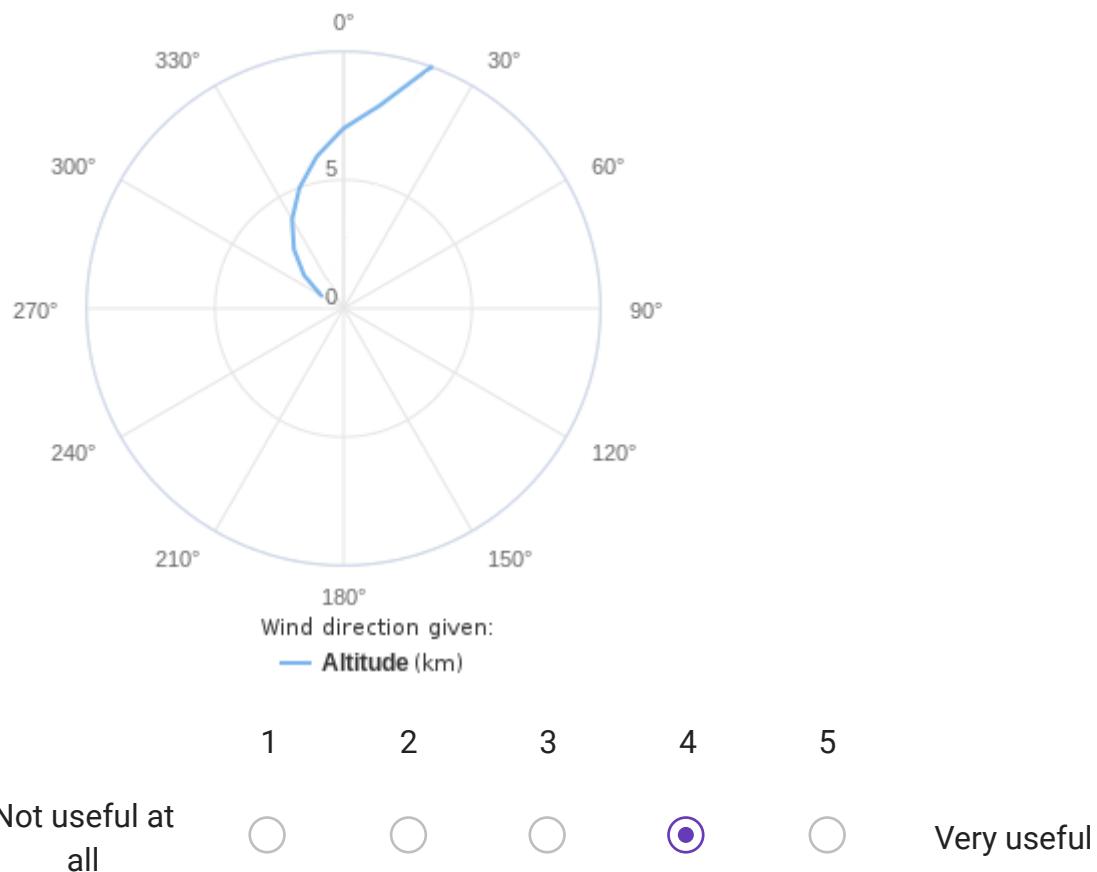
Not useful at
all

Very useful

Would you like to change something about the above visualization?

I suggest a black axis and data line for the best contrast as this will most likely be used outdoors where sun glare is a problem.

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

no

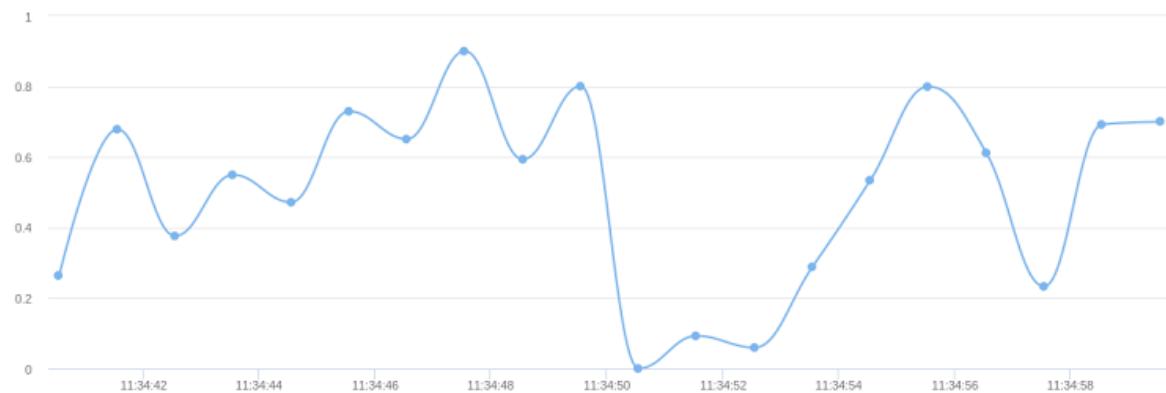
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1 2 3 4 5

Not useful at all Very useful

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1 2 3 4 5

Not at all Very useful

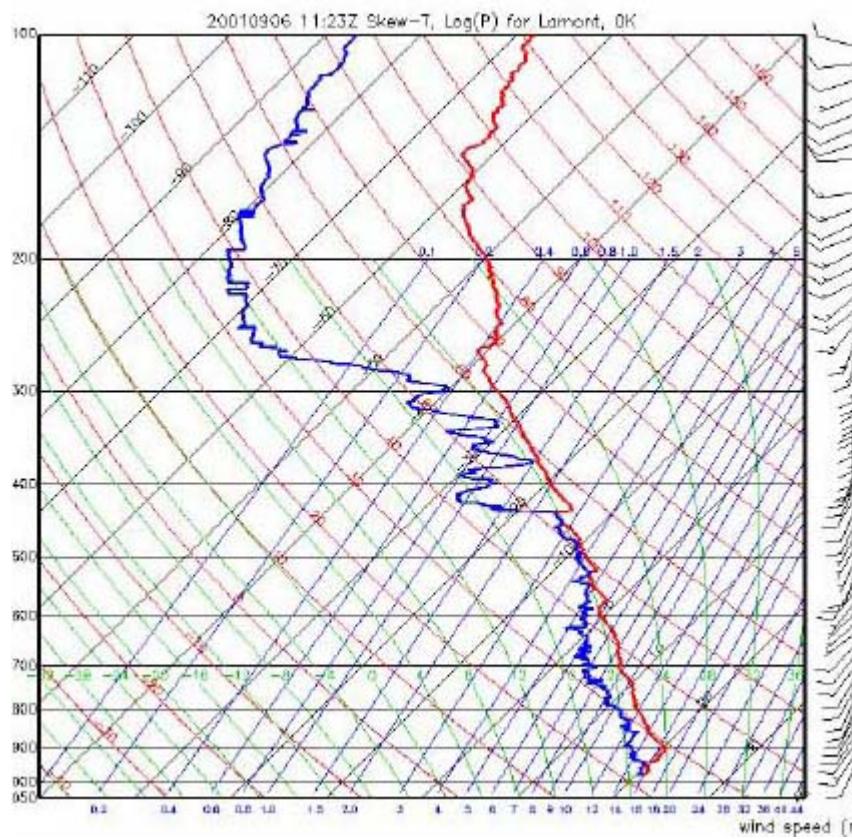
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1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				Very interested

How useful would skew-t graphs be to you?



1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
				Very useful

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- Online (cloud) storage accessible through the app
- Google Drive / Dropbox / etc.
- Övrigt:
live map publically available if the data can be uploaded live to your server.

Comments on data access

The ability to post basic current data to twitter or facebook would be useful for observers following remotely.

Other comments or wishes for visualizations (describe here, or e-mail to [REDACTED])

What's your name and/or your organization?

[REDACTED]

Thanks for your help from us at Sparv!



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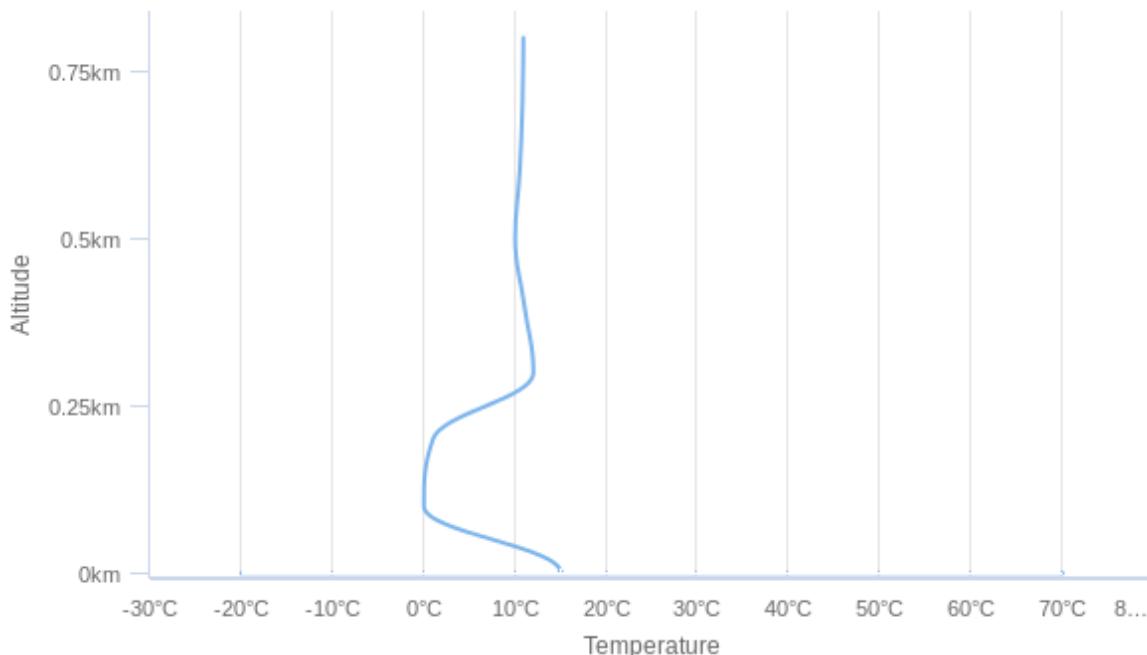
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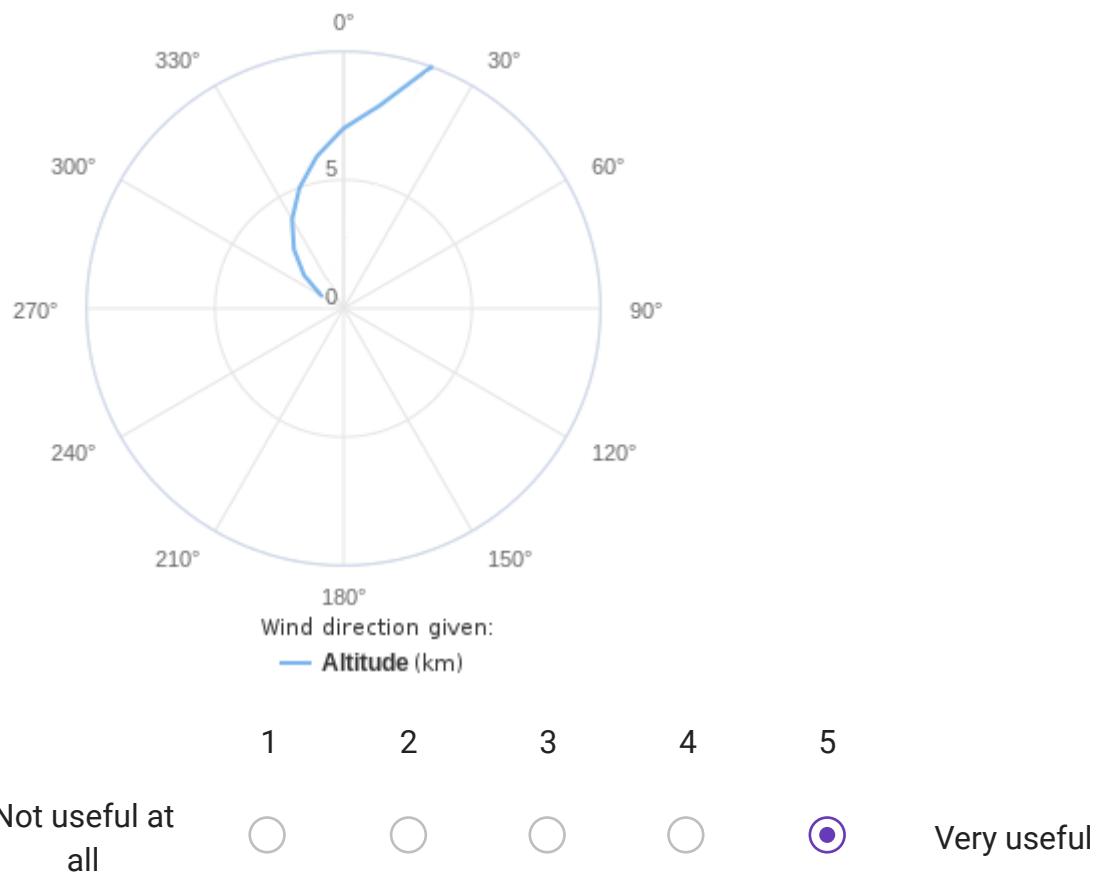


1	2	3	4	5
Not useful at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> Very useful

Would you like to change something about the above visualization?

Skew the temperature and have pressure on the side, also calculated parameters if possible.

How useful would this form of graph be to you? This can represent directional measurements (such as wind direction) at each altitude.



Would you like to change something in the above visualization?

n/a

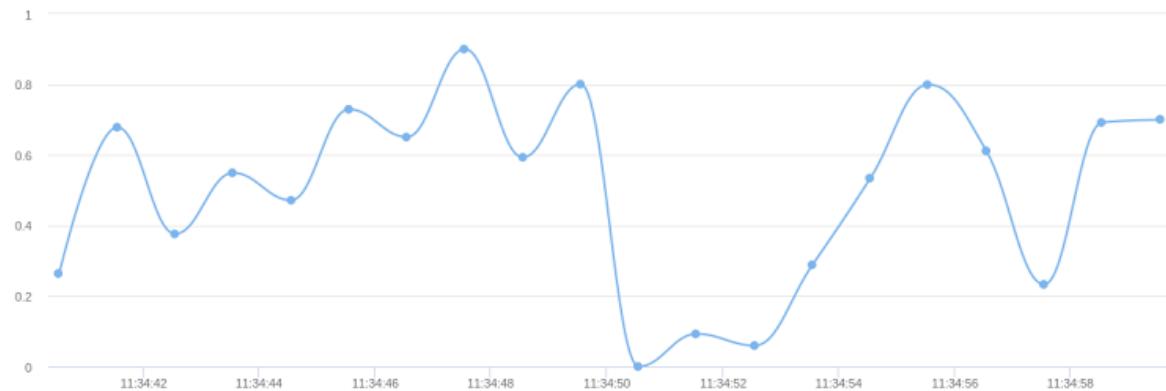
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Not useful at all Very useful

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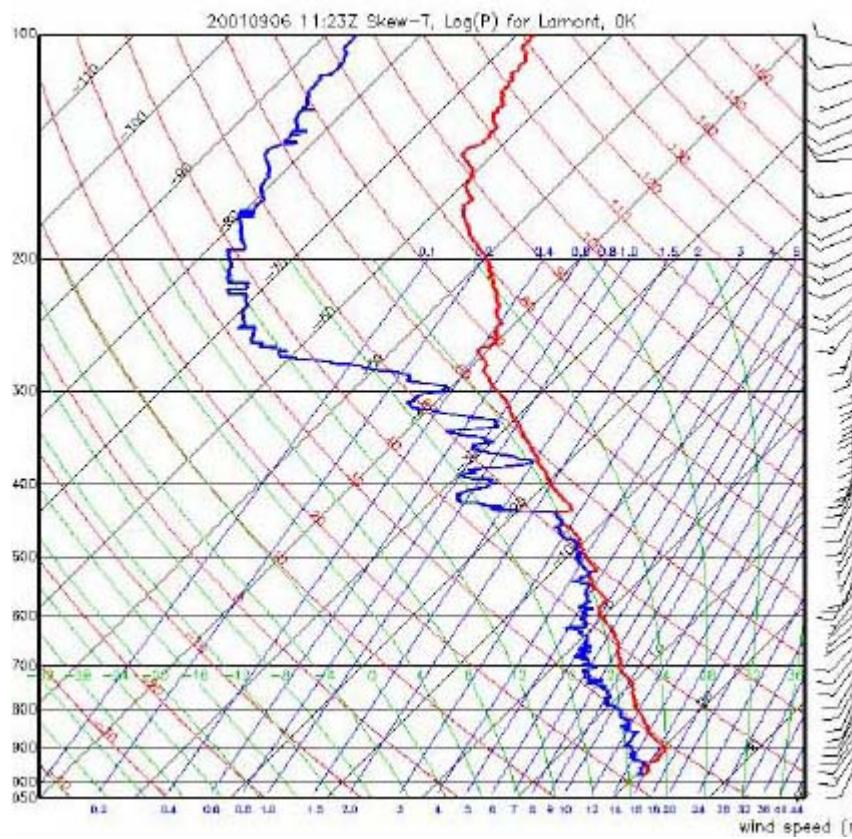
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1	2	3	4	5
Not interested	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
				Very interested

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1	2	3	4	5
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Comments on data access

.....

Other comments or wishes for visualizations (describe here, or e-mail to info@sparv.se)
.....

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