Det gar inte att reargera oraren

# **Evaluation of the Windsond app**

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Now we have made an initial attempt at implementing the graphs, and it would be great if you could provide some further comments. Your feedback has been great, and we have tried to implement as many features as possible since the last survey. Given that we have something more concrete to show, we hope that your answers can provide some finer details on potential improvements and fixes, and whether you find us to be on the right track towards your vision.

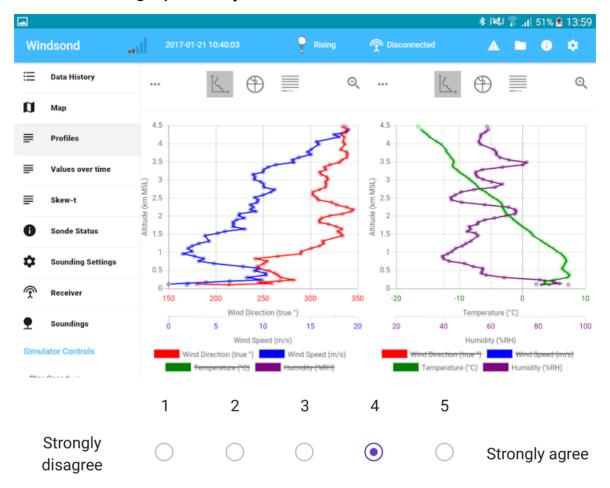
There are requests you asked for in the last survey, which we haven't had time to implement:

- User defined units of measurement (feet, meters, true degrees, mil, etc).
- Darker colors for graph elements such as the guides and the text, for improved visibility.
- Possibility to export data to some platforms (other than the ones currently available) such as e-mail and paper printing.
- More features...

Overall, I found the user	interface easy	y to use. 🤊
---------------------------	----------------	-------------

	1	2	3	4	5	
Strongly disagree	$\bigcirc$			•	$\bigcirc$	Strongly agree

## I found these graphs easy to use. \*



Is the contents of the above graphs clear? Is it easy to understand?

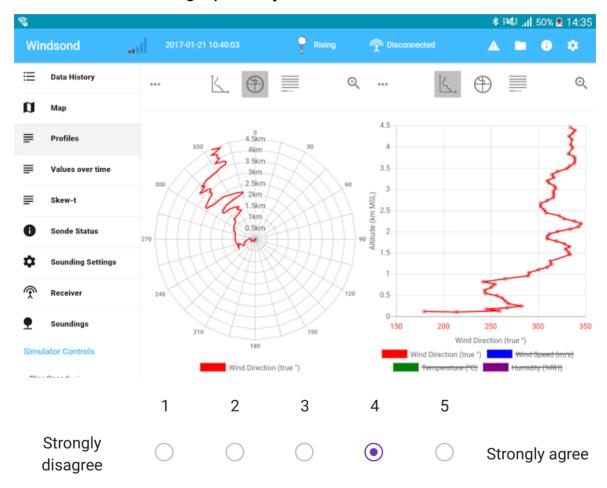
## Would you like something changed in the above implementation?

I would expect the labels to not be there, rather than have a line drawn through them

Having two graphs displayable like above is useful (note the zoom feature to only display one graph at a time). \*



I found the circular graph easy to use. \*



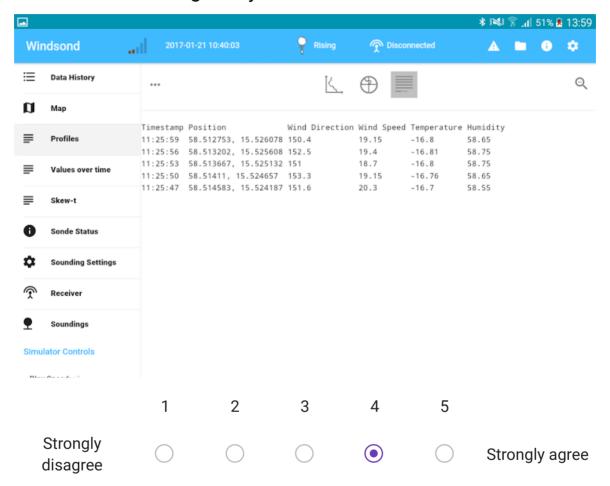
Is the contents of the above graphs clear? Is it easy to understand?

yes	

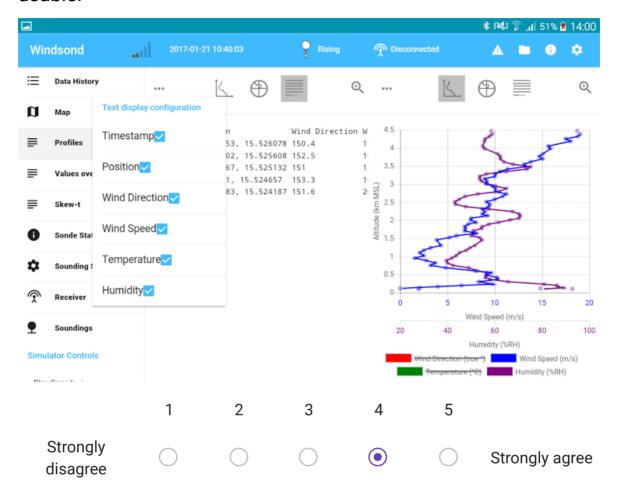
#### Would you like something changed in the above implementation?

Label in cardinal directions in the polar diagram, as otherwise not really much different info. Plot wind direction in the vertical plot without lines (when the wind switches back and forth across zero, then lines are noisy).

#### I found these readings easy to use and understand. \*

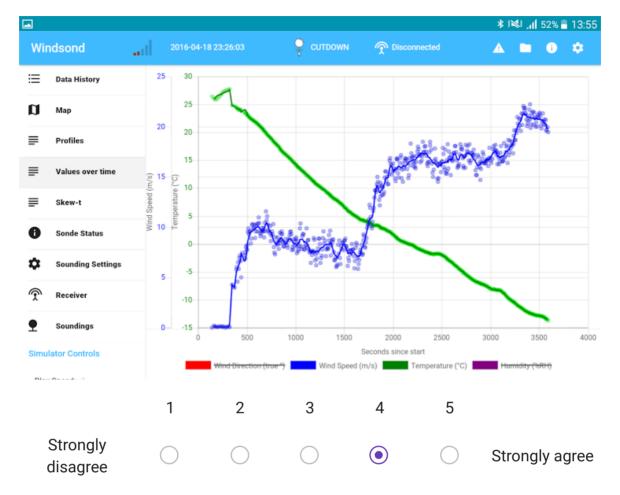


I found this method of choosing different readings to show to be usable. \*



I found this graph showing measurements over time easy to use.





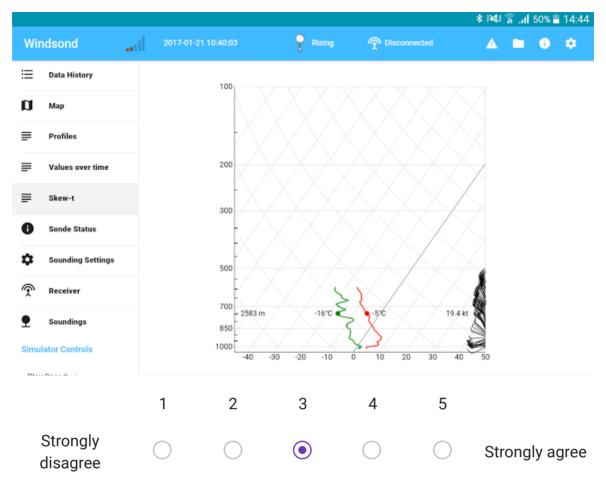
Is the contents of the above graph clear? Is it easy to understand?

Yes

Would you like something changed in the above implementation?

Have the 2nd axis labels on the right side? It is not a big deal

#### I found the skew-t graph easy to use. \*



#### Is the contents of the above graph clear? Is it easy to understand?

Needs to allow the user to set the vertical limit in pressure and the horizontal range in temp so that all the obs in the boundary layer are not squished at the bottom or in a narrow range left-right

#### Would you like something changed in the above implementation?

While the real-time user interface is important, we are more concerned with making sure we can download the raw data and plot in our own applications. Also, allowing all the displays to choose the vertical type of axis (pressure vs. height) would be nice.

## **Additional questions (optional)**

#### What do you think could be improved about the app?

I haven't actually seen the app? But the mockups of the displays look ery good

#### What was your overall impression using the app?

I would really like the flex to use both Android and Windows for the RR2 receiver, but all else being equal, we would use Windows over Android

## Would you use this app again?

	ı	Z	3	4	5	0	/	0	9	10	
No										$\bigcirc$	Yes

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Google Formulär

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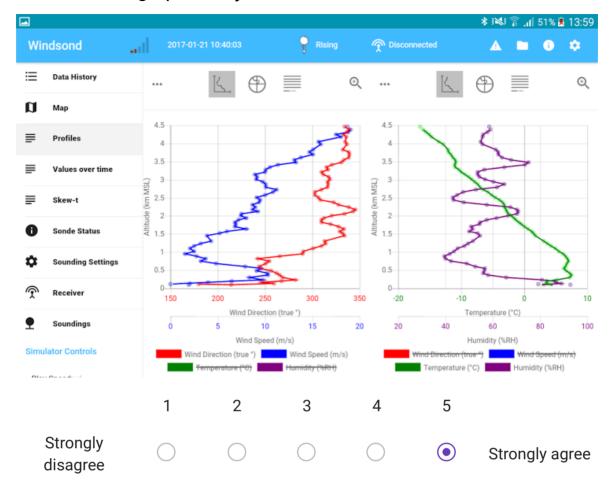
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- More features...

Overall, I found the user interface easy	/ to use. *
--	-------------

	1	2	3	4	5	
Strongly disagree	$\bigcirc$		$\bigcirc$	$\bigcirc$	•	Strongly agree

## I found these graphs easy to use. \*



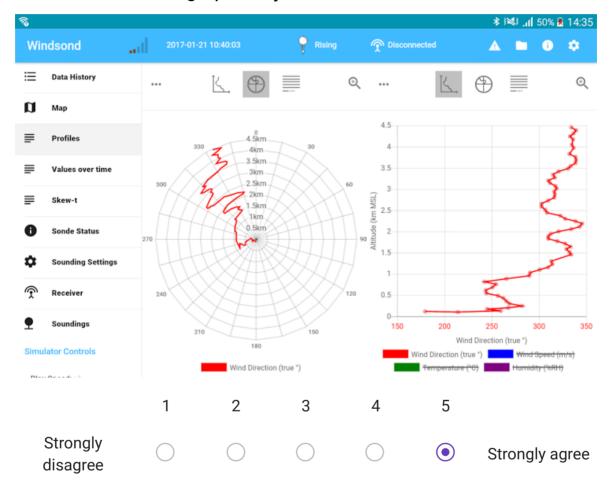
Is the contents of the above graphs clear? Is it easy to understand?

Would you like something changed in the above implementation?

Having two graphs displayable like above is useful (note the zoom feature to only display one graph at a time). \*



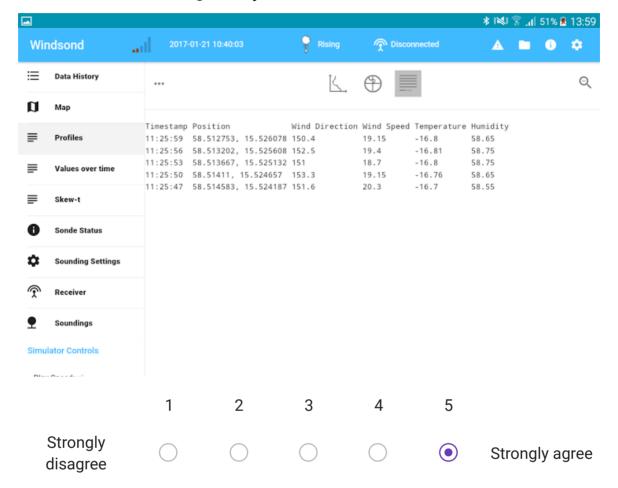
I found the circular graph easy to use. \*



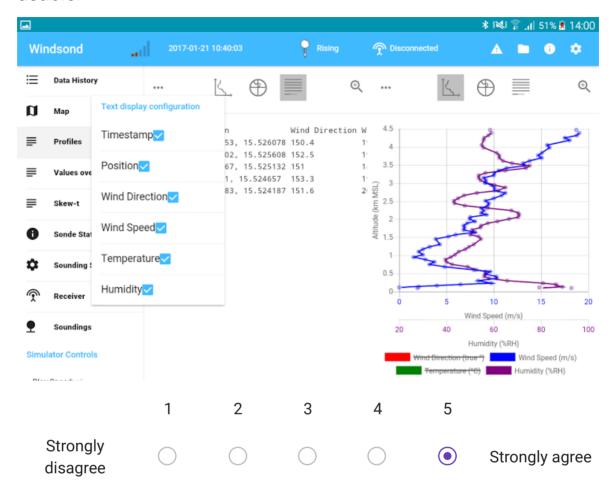
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## Would you like something changed in the above implementation?

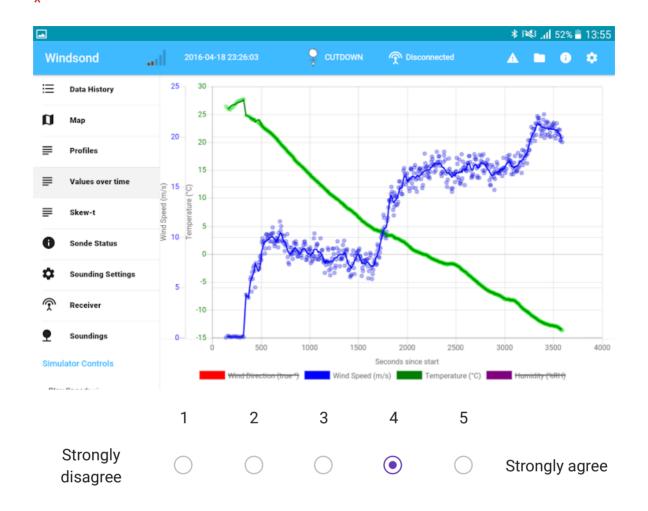
#### I found these readings easy to use and understand. \*



I found this method of choosing different readings to show to be usable. \*



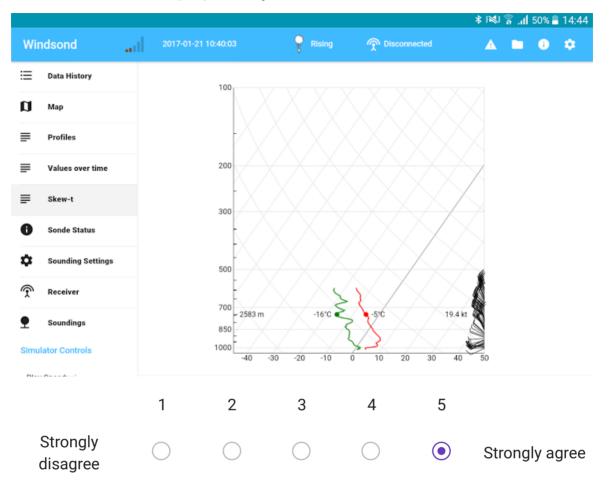
# I found this graph showing measurements over time easy to use.



Is the contents of the above graph clear? Is it easy to understand?

Would you like something changed in the above implementation?

# I found the skew-t graph easy to use. \*



Is the contents of the above graph clear? Is it easy to understand?

Would you like something changed in the above implementation?

Additional questions (optional)											
What do you think could be improved about the app?											
What was your overall impression using the app?											
Would you use this app again?											
	1	2	3	4	5	6	7	8	9	10	
No										•	Yes

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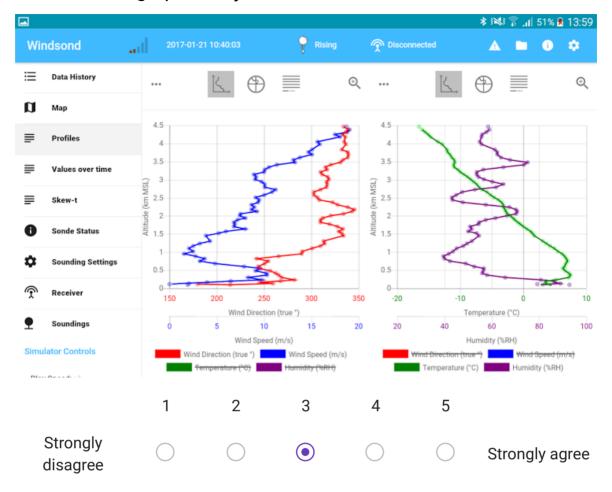
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- More features...

Overall, I found the user interface easy	/ to use. *
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	1	2	3	4	5	
Strongly disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$			Strongly agree

#### I found these graphs easy to use. \*



# Is the contents of the above graphs clear? Is it easy to understand?

Yes, but would there be a way to plot the wind information in a wind barb format?

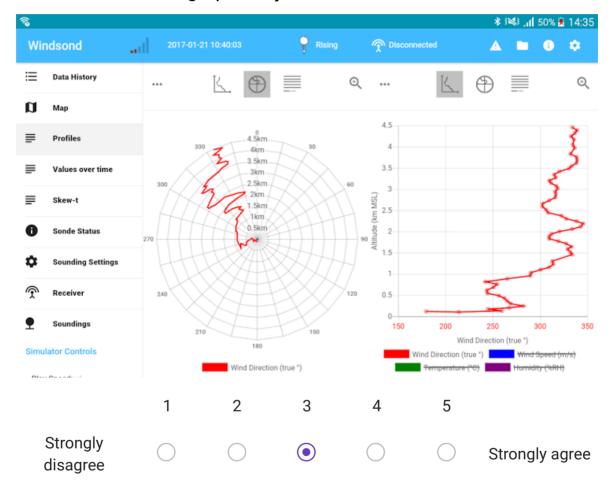
# Would you like something changed in the above implementation?

Please see above, though I like being able to relate the wind with the thermal structure of the atmosphere.

Having two graphs displayable like above is useful (note the zoom feature to only display one graph at a time). \*



I found the circular graph easy to use. \*



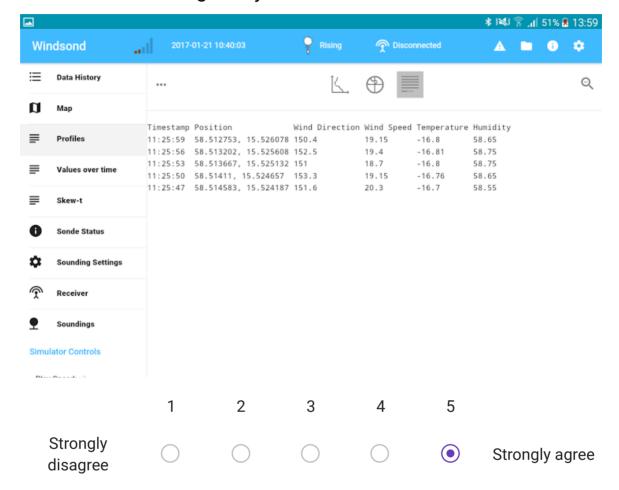
# Is the contents of the above graphs clear? Is it easy to understand?

I understand what you are plotting here, but I don't think a lot of pilots understand how to read this and realize this is related to a fixed point.

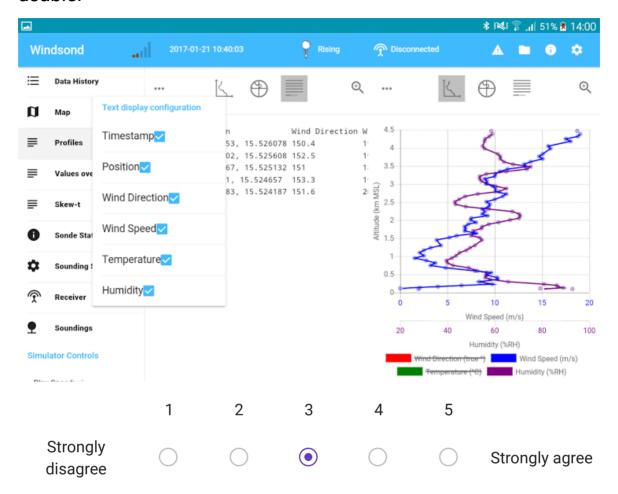
## Would you like something changed in the above implementation?

Please see above

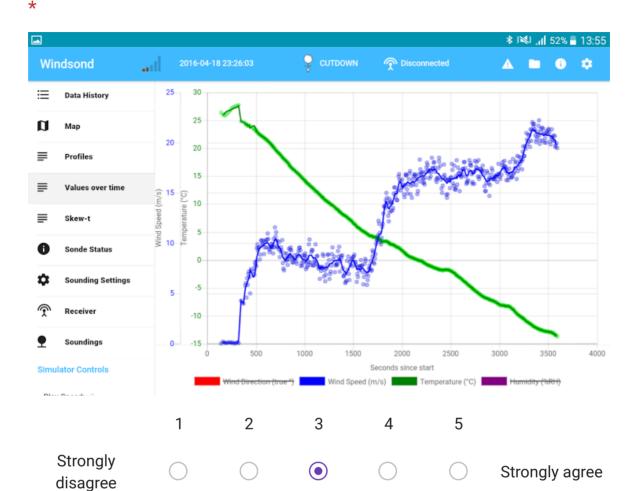
#### I found these readings easy to use and understand. \*



I found this method of choosing different readings to show to be usable. \*



# I found this graph showing measurements over time easy to use.



Is the contents of the above graph clear? Is it easy to understand?

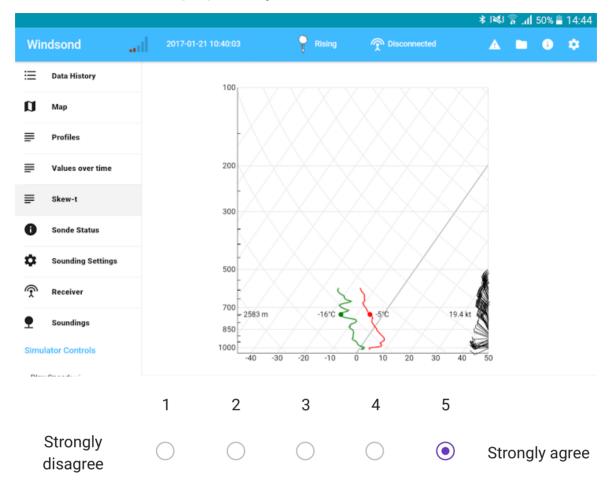
Would you like something changed in the above implementation?

Is it possible to skew the temperature?

09/05/2017, 13:11

23 of 48

## I found the skew-t graph easy to use. \*



Is the contents of the above graph clear? Is it easy to understand?

Yes

Would you like something changed in the above implementation?

I love this chart!!

# Additional questions (optional)

What c	lo yo	u thin	k cou	ıld be	impr	oved	abou	t the	app?		
Having o	Having dew point data in the tabular text information would be great.										
What v	What was your overall impression using the app?										
I really li	ke it!										
Would	you ı	use th	nis ap	p aga	ain?						
	1	2	3	4	5	6	7	8	9	10	

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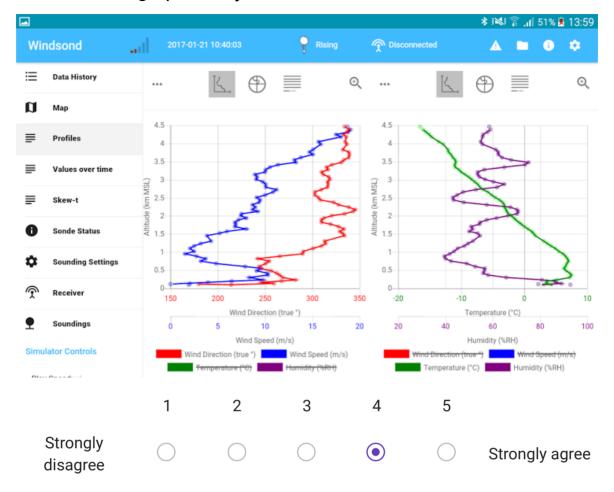
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- More features...

Overall, I found the user interface easy	/ to use. *
--	-------------

	1	2	3	4	5	
Strongly disagree	$\bigcirc$	$\bigcirc$	$\bigcirc$			Strongly agree

## I found these graphs easy to use. \*



Is the contents of the above graphs clear? Is it easy to understand?

Yes
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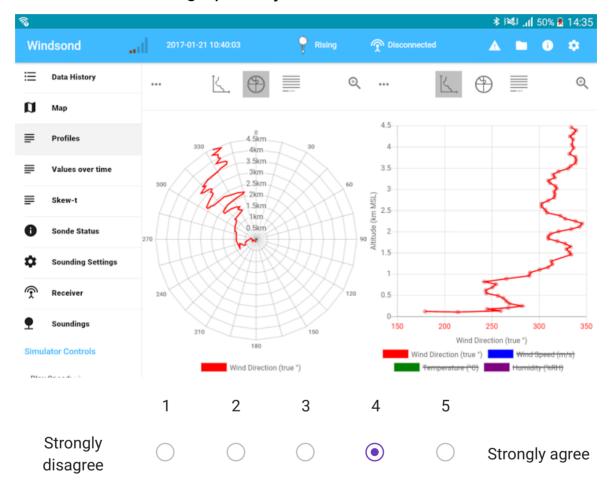
Would you like something changed in the above implementation?

No

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I found the circular graph easy to use. \*



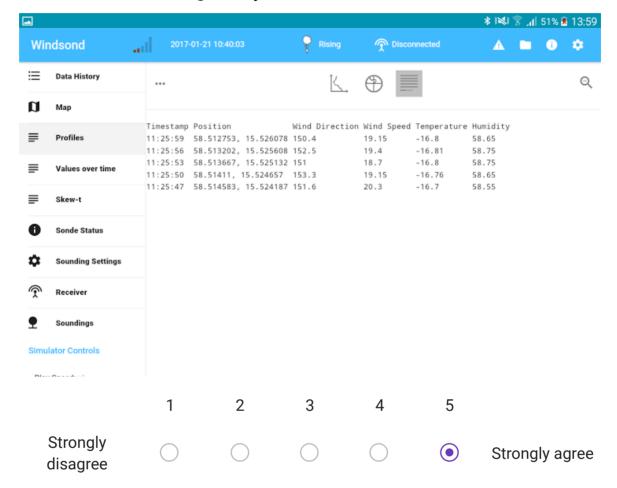
Is the contents of the above graphs clear? Is it easy to understand?

Yes

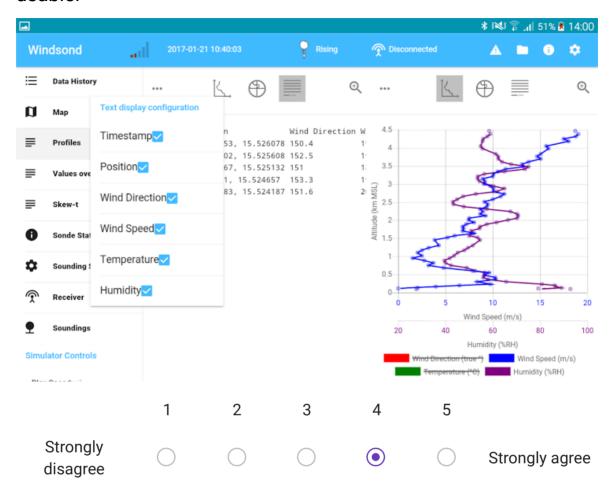
## Would you like something changed in the above implementation?

No

#### I found these readings easy to use and understand. \*

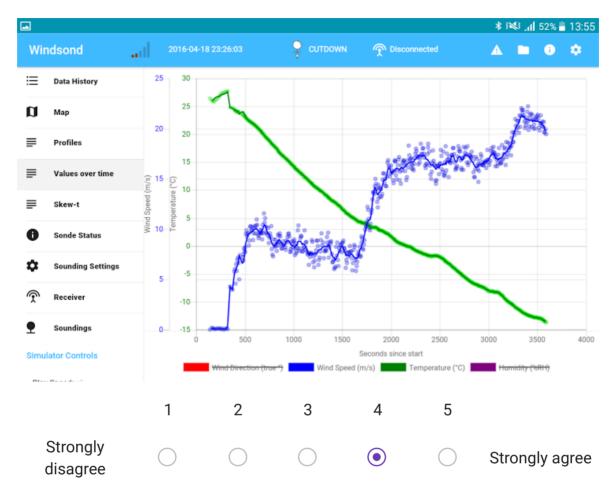


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I found this graph showing measurements over time easy to use.





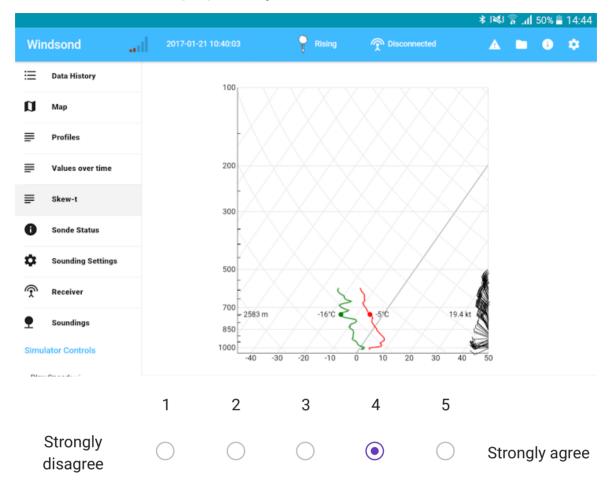
Is the contents of the above graph clear? Is it easy to understand?

Yes

Would you like something changed in the above implementation?

No

## I found the skew-t graph easy to use. \*



Is the contents of the above graph clear? Is it easy to understand?

Yes

Would you like something changed in the above implementation?
No

Additi	onal d	quest	ions (	optic	onal)						
What	do yo	u thin	k cou	ıld be	impr	oved	abou	it the	app?		
It is useful as is											
What	was y	our o	verall	impr	essic	n usi	ng th	е арр	?		
It is use	eful										
Would	l you ı	use th	nis ap	p aga	ain?						
	1	2	3	4	5	6	7	8	9	10	
No							•			$\bigcirc$	Yes

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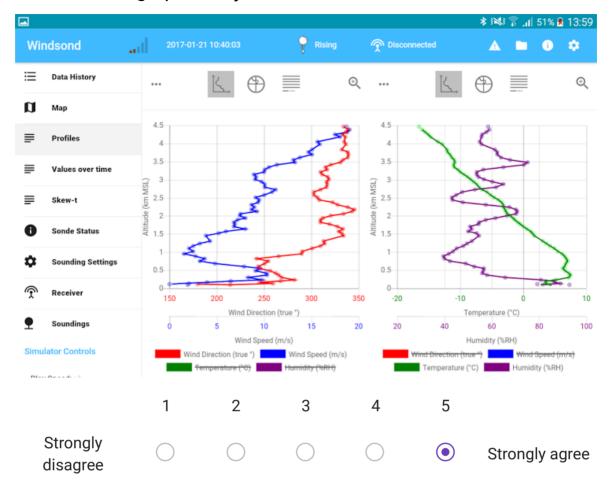
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- More features...

Overall, I found the user interface easy	/ to use. *
--	-------------

	1	2	3	4	5	
Strongly disagree	$\bigcirc$		$\bigcirc$		•	Strongly agree

#### I found these graphs easy to use. \*



# Is the contents of the above graphs clear? Is it easy to understand?

Yes they are very clear, and easy to understand.

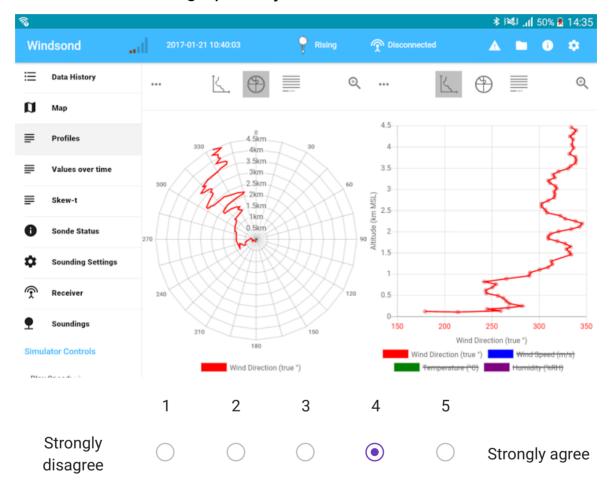
# Would you like something changed in the above implementation?

Maybe an option to see all the data (the whole scatter plot), which can be useful and indicative of the reliability of the sounding, and of the airmass homogeneity.

Having two graphs displayable like above is useful (note the zoom feature to only display one graph at a time). \*



I found the circular graph easy to use. \*



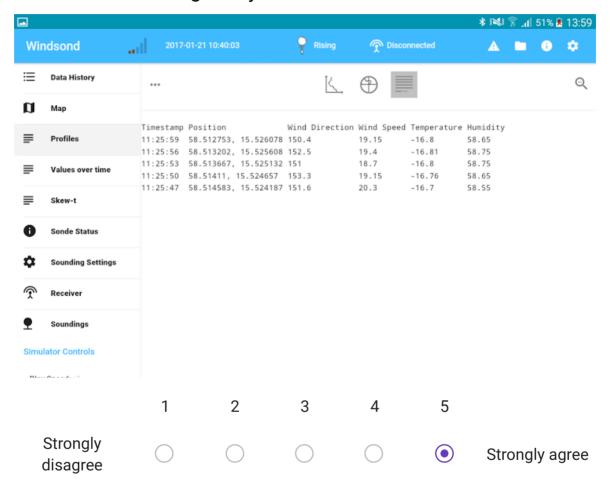
Is the contents of the above graphs clear? Is it easy to understand?

Yes.

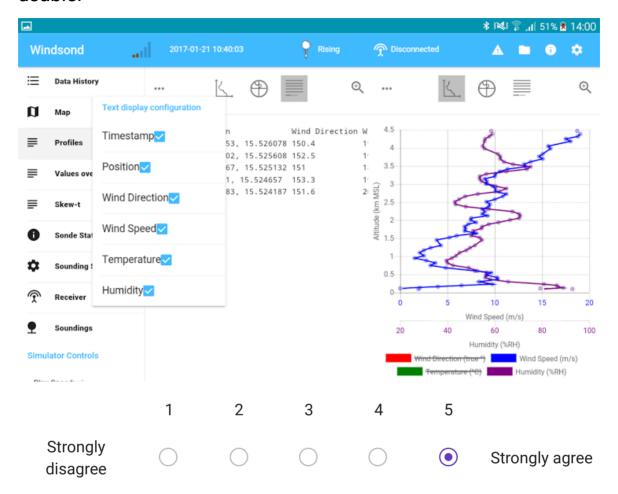
#### Would you like something changed in the above implementation?

Maybe an increment that adapts to the depth of the sounding could be appreciated (for exemple, 1 circle for each km of altitude if the sounding goes above 5000m, and 500m circles if the sounding stopped below 5000m).

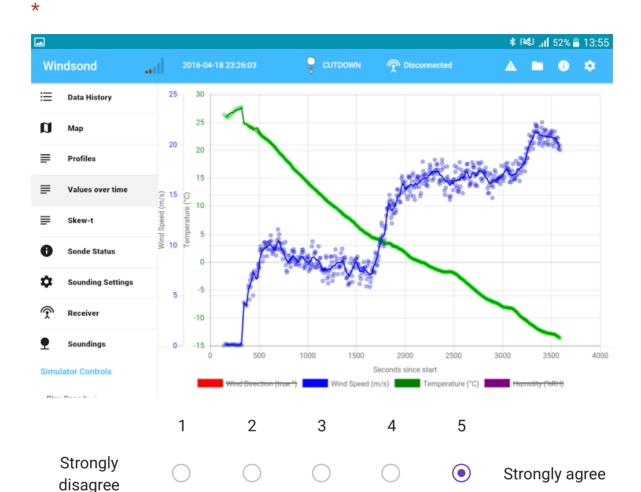
#### I found these readings easy to use and understand. \*



I found this method of choosing different readings to show to be usable. \*



I found this graph showing measurements over time easy to use.

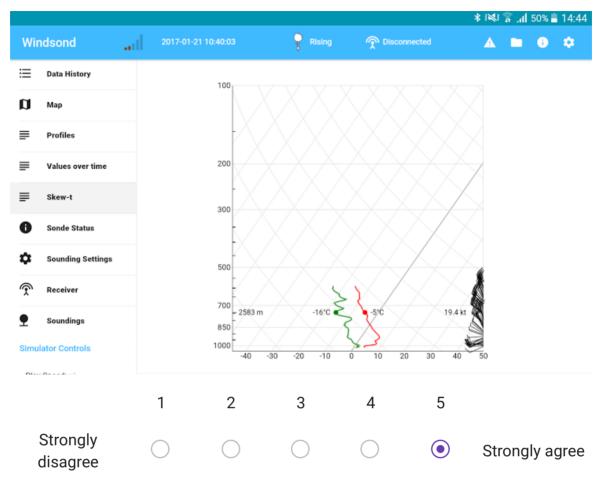


Is the contents of the above graph clear? Is it easy to understand? Yes.

Would you like something changed in the above implementation?

The time aspect is not really useful given the way I plan to use the app.

# I found the skew-t graph easy to use. \*



#### Is the contents of the above graph clear? Is it easy to understand?

Yes, except for the wind. Maybe there are too many wind barbs, but it would be ok with auto fitting scales (see below).

#### Would you like something changed in the above implementation?

I would like it to be zoomable, with auto fitting scales (top of the sounding equals top of the graph). Adding the opportunity to draw predefined lines (like a parallel to the dry adiabat, the moist adiabat, and mixing ratio) would be top notch. This way you could directly make an analysis of the sounding on the app.

Additional questions (ontional)

Additional questions (optional)											
What do you think could be improved about the app?											
What was your overall impression using the app?											
Would you use this app again?  1 2 3 4 5 6 7 8 9 10											
No	$\bigcirc$		Yes								

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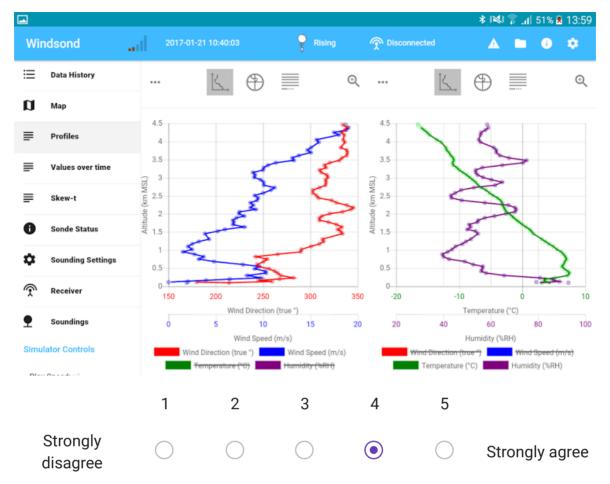
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- More features...

Overall, I found the user interface easy	/ to use. *
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	1	2	3	4	5	
Strongly disagree	$\bigcirc$		•	$\bigcirc$		Strongly agree

#### I found these graphs easy to use. \*



# Is the contents of the above graphs clear? Is it easy to understand?

Wind graph looks good. T and RH graph looks a bit confusing because of the multiple grid lines. Maybe make sure the grid lines overlap, or make it possible to switch one set of grid lines off?

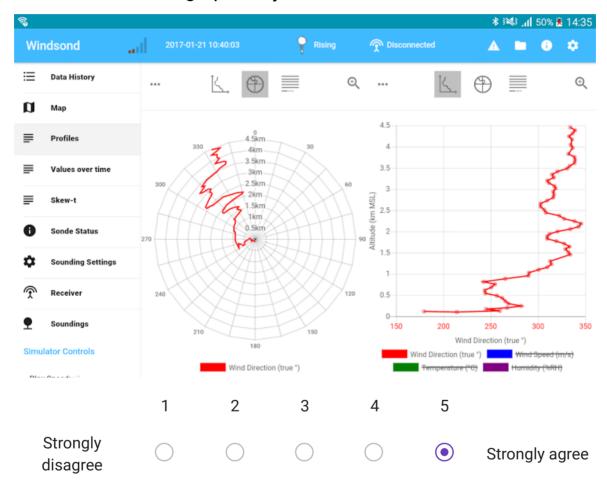
# Would you like something changed in the above implementation?

Is it possible to customise the colours of the graphs in the app? I'd probably go for green/purple for the wind and red/blue for the T and RH.

Having two graphs displayable like above is useful (note the zoom feature to only display one graph at a time). \*



I found the circular graph easy to use. \*



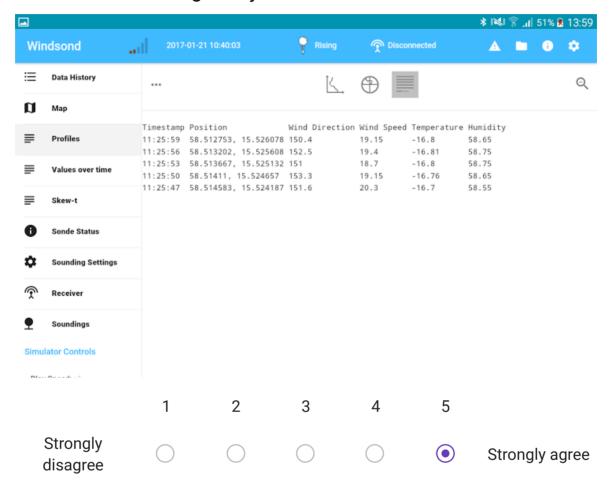
Is the contents of the above graphs clear? Is it easy to understand?

Yes. I like it! A nice way to plot wind shear :-).

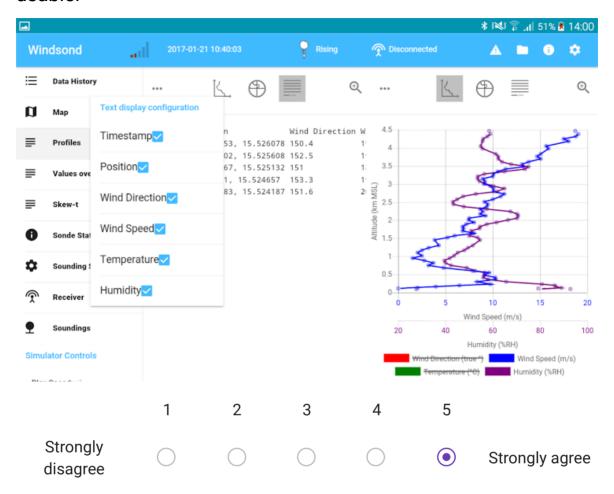
#### Would you like something changed in the above implementation?

I assume that you can tap on the different parameters to turn them on and off. If not, that could be useful.

#### I found these readings easy to use and understand. \*

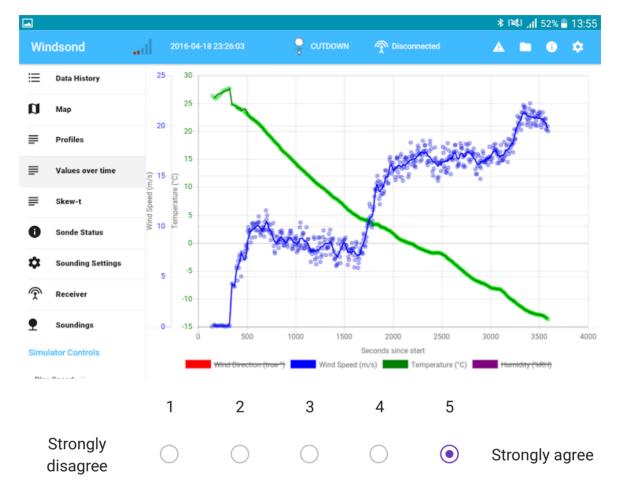


I found this method of choosing different readings to show to be usable. \*



# I found this graph showing measurements over time easy to use.





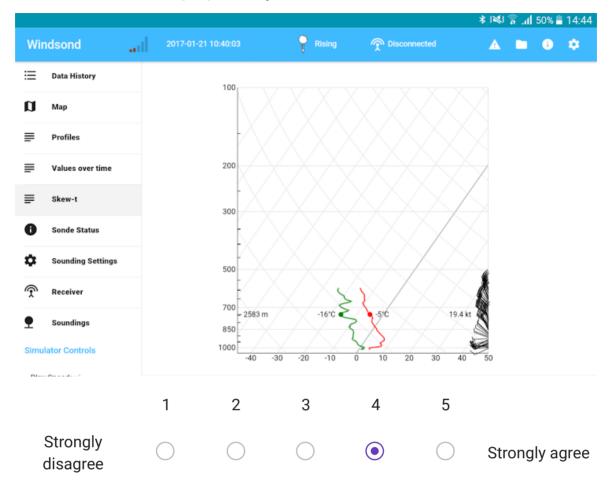
#### Is the contents of the above graph clear? Is it easy to understand?

Yes, although the multiple grid lines are a bit confusing again.

#### Would you like something changed in the above implementation?

Could you add pressure/height to this (like in PC Windsond)? Could be useful more generally to switch between pressure and height.

# I found the skew-t graph easy to use. \*



# Is the contents of the above graph clear? Is it easy to understand?

Yes! skew-t :-)! Would be useful to adjust the number of wind barbs as it can be useful to both see the high and low resolution stuff, depending on what you want to pick out.

# Would you like something changed in the above implementation?

s this zoomable?

#### Additional questions (optional)

#### What do you think could be improved about the app?

Can you export any graphs as png files (or similar)? Maybe even eps/pdf? This would make them easier to share. Also, exporting images/data straight to email to share them with people? Guess that's less of a priority, but could be a nice feature.

# What was your overall impression using the app?

Seems well laid out and intuitive. If you need some alpha/beta testing let me know!

#### Would you use this app again?

	I	2	3	4	Э	0	/	8	9	10	
No										•	Yes

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