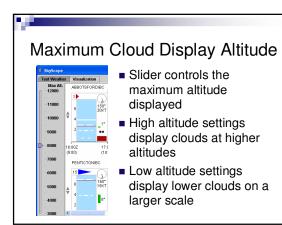


Recent Work

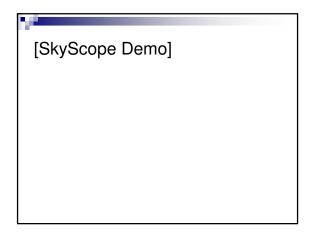
- Finished initial working prototype
- Collected feedback from potential users
- Redesigned parts of the system
- Implemented the changes
- Posted a SkyScope download page with an online tutorial

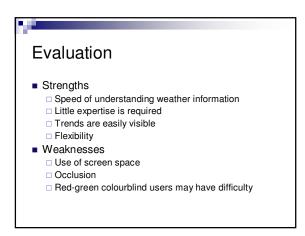
Some Design Changes

- Main window uses tabs instead of a SplitPane
- Temperature Dew point spread
- Ceiling added to cloud layout
- Cause of red minimum condition indicator also appears in red
- Standard precipitation icons instead of text
- Maximum cloud display altitude slider
- Wind speed added to wind direction indicator



Wind Speed Indicator Wind speed was added to the wind direction indicator Long perpendicular lines represent 10 knots of wind Short lines represent 5 knots of wind This technique is consistent with some aviation weather maps





Informal User Feedback

- We demonstrated SkyScope to several licensed pilots
 - $\ \square$ 2 recreational pilots
 - □ 3 flight instructors
 - ☐ Singapore Airlines Captain
 - □ 1 Internet user
- Many suggestions for additions and improvements were given
- Overall feedback was positive and enthusiastic

Conclusion

- Designed and implemented a novel visualization for aviation weather data
- We believe SkyScope dramatically reduces the time required to understand weather data
- User feedback has been very positive
- We believe the approach introduced by SkyScope will see regular use among recreational pilots