

Proposed Marshall Lidar Scanning Schedule

July 12-13

- Both lidars running same scanning strategy
- DBS, Stare, PPI at 35 degrees, RHI E-W and N-S for initial comparison of the lidars

July 14

- Lidar comparison
- RHI's directly looking at each other ~30 min?
- Pointing at 30 m tower sonic 30 min?

July 15-17

- Wind profiling comparison
- Both lidars doing DBS with occasional PPI

July 17-21

- Coordinated RHIs
- 1 hour virtual tower at single location
- 1 hour multiple towers along a transect

July 21-25 (I will be traveling so a simple scanning strategy will be easiest)

- Compare VAD types (fast vs slow)?

July 25-August 1 (Turbulence Week!)

- Running scans specifically for turbulence
- CLAMPS running on its default schedule 10 min stares, VAD, repeat (during the week we will change the length of the stare to see how it impacts vertical variance estimates)
- Windcube 6 beam strategy for turbulence
- Windcube RHI for turbulence
- Collect spectra this week?

August 1- 8 (PBL Height week, thinking S-POL will be there at this time)

- Continuous vertical stare by one lidar ("truth" for PBL height retrieval)
- Other lidar will do occasional vertical stares, but will have other scans in between (testing how the retrieve reacts to data gaps in vertical stares)

August 8-16

- Leaving this week open for now in case something happens so we have some flexibility