## 2D sonic azimuth at base

Gordon, Oct 5
The Gill windsonic at base was installed with no concern about its orientation.
Today Tom calibrated the data scope, then measured the sonic boom azimuth (with declination=0), getting the following readings:

| 38.2 | 37.5 | 37.1 | 36.6 | 35.1 | 35.8 | 36.4 | 35.4 | mean=36. |
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The magnetic declination here is 10.5 degrees. So the boom azimuth is $36.5+10.5+180=227.0$ degrees wrt true north.
Then we removed the sonic and boom from the tower to figure out the orientation of the sonic relative to the boom.
By putting a ruler along the transducers and some advanced trig we estimated that the north arrow on the sonic is 2 degrees clockwise from the boom.
So N on the sonic is at 229 degrees true.
Entered this as the offset angle in \$ISFF/projects/METCRAXII/ISFF/cal_files/noQC/dir_base_10m.dat.

