

Sonic, prop azimuths

This table summarizes the sonic and prop vane azimuths. Azimuth angles were shot relative to magnetic north with the datascope.

date	stn	whom	sonic (measured, magnetic)	sonic Vazimuth (calculated, true)	prop (measured, magnetic)	prop azimuth (calc, true)	notes
6/29	1	Kurt, Rus	356.3, 356.7	267.8	92.3, 92.6	273.8	
6/24	2	Gordon, Dan	357.0	268.3	93.3	274.6	https://wiki.ucar.edu/x/R7yTB
6/29	2	Kurt	357.0	268.3	93.3	274.6	good agreement with 6/24
6/29	3	Kurt	353.0	264.3	93.2	274.5	
6/24	4	Gordon, Dan	354.3	265.6	92.6	273.9	https://wiki.ucar.edu/x/RLyTB
6/29	4	Kurt	353.5	264.8	88.9	270.2	prop disagrees (-3.7 deg) with 6/24
7/5	4	Dan, Kris	354.2	265.5			https://wiki.ucar.edu/x/_MWTB

Magnetic declination = 1.3 deg E

sonic: Vazimuth = measured + declination - 90

Vazimuth is the direction that the sonic V axis is pointing, and is the rotation angle of horizontal wind components from instrument to geographic coordinates.

prop: azimuth = measured + declination + 180

prop azimuth is the angle that is added to the wind directions measured by the propvane, so that they are relative to true north.