

Tbaro changes

I note that since we are for the first time mounting the barometer outside of the DSM box, Tbaro changes much faster than before. In particular, in the past 30minutes this morning, Tbaro has changed at the east sites from being nearly equal to T to being almost 10degrees higher. I assume this is due to heating by shortwave radiation as the station comes out of the shadow of the mountains.

The barometer pressure is compensated for changes in its temperature and is still well within its calibrated range, but it is possible that this rate of change could induce temperature gradients within the sensor that makes the Tbaro measurement (and thus any compensation) less valid. It would be interesting to examine these pressure data in detail during these times to see if an error in pressure can be detected. (Though it isn't obvious what the reference would be.)