

config 2 dimensions

Tom asked us to remeasure heights of the config2 upwind array as we tore it down yesterday:

3	191. 1
4	190. 8
5	190. 8
6	193. 7
7	191. 7
8	191. 9
9	191. 3
1 0	192. 2
1 1	192. 6

There were some stray marks on the towers. I wouldn't rule out the possibility that we chose the wrong reference line on some of the towers (note the the marks ended up underneath the masts sometimes). In particular, I wonder if 6u's measurement was wrong.

Also note that we ended up measuring to the top of the clamp, rather than the top of the boom since this was much easier to get to. The values above all have had an additional 0.7cm subtracted to compensate for this.

P.S. On x-spacing:

Distance from end of boom bracket to center of PAM (square) mast, which was aligned to stakes: 12.4cm

Distance from end of boom bracket to center of horiz array base plate, which was aligned to stakes: ~9cm

Distance between upwind stake line and horiz array stake line: was supposed to be 5.16m.

Distance between end of boom bracket to center of sonic arrays: ~177.7cm [but should be the same for either upwind or horiz array]

Thus, distance between upwind sensors and horiz array sensors: $5.16\text{m} + 12.4\text{cm} - 9\text{cm} = 5.13\text{m}$.

Note that config 3 x-spacing should be the same.