heights

For my own sanity, I try here to document all the heights so far:

 (These are now updated with the array 4 values. Not all of these make sense [different measurements when things weren't moved]. I'm working now to resolve them.)

Array:	1 sonic	AGL*	1 TRH	AGL		2 sonic	AGL	2 TRH	AGL		3 sonic	AGL	3 TRH	AGL		4 sonic	AGL	4 T
ref (AGL)	+0.055	1.52 (1.53)	1.52	-0.37		+0.05	1.76	-0.37	1.76		x	1.61	x	x		-0.027	1.65	x
"8m"	6.475	**8.05**	6.855	**8.005**		-	-	-	-		6.468	**8.128**	-	-		6.508	**8.063**	6.8
"7m"	5.505	**7.08**	5.855	**7.005**		-	-	-	-		5.544**	**7.204****	-	-		5.582	**7.137**	5.8
"5.5m"	3.955	**5.53**	4.315	**5.465**		3.99	**5.80**	4.43	**5.82**		4.256	**5.916**		5.845		4.286	**5.841**	4.7
"4m"	2.665	**4.24**	3.08	**4.230**		2.90	**4.71**	3.33	**4.72**		3.316	**4.976**		4.884		3.352	**4.907**	3.7
"3m"	1.725	**3.30**	2.105	**3.255**		1.96	**3.77**	2.36	**3.75**		2.110	**3.770**	-	-		2.140	**3.695**	2.5
"1.5m"	-0.02	**1.55**	0.355	**1.505**		-	-	-	-		-0.026	**1.634**	-	-		0.000	**1.555**	0.3
top	2.66	**4.25**	x	x		2.91	**4.72**	x	x		4.260	**5.920**	x	x		x	**8.060**	x
bottom	1.66	**3.25**	x	x		1.91	**3.72**	x	x		3.262	**4.922**	x	x		x	**7.062**	x
upwind	2.17->1.67	**3.75->3.25**	x	x		1.92	**3.73**	x	x		3.254	**4.914**	x	x		x	**7.062**	x

*3/18/09, TWH added the height of the sonic measurement volume above the top of the boom (5.5? cm).

**Note that the 7m sonic was moved up "about 4-5 cm" on Aug 3 at 09:41 (see logbook entry)

 "-" means shouldn't have changed from last

"x" means value not needed

TRH at "5m" and "4m" were moved between array 2 and array 3, but measured during array 4.

final values to be used in **bold**

ref4 was 0.040m above ref3, but for the profiles, the reference was the top of the lowest sonic boom, which was 0.027m below ref3.