

Daily status, July 1

AHATS daily status 7/01/08

Staff: Maclean, Horst, Tong, Khoung, Brown

Summary: Chenning and Khoung completed the pressure sensor deployment this morning by connecting the upper 5 sensors to the reference cylinder.

We decided to lower the sonics in the upwind array by 0.5 m to match the height of the lower sonics in the downwind array. This will allow a more accurate combination of the cross-array gradients and the between-array gradients to calculate the streamwise and crosswind gradients.

Good wind direction: For the period 6/25 17:00 through 7/1 16:35, we have 54.25 hours of data periods of length 20 minutes or longer with wind directions from 195-355 degrees. This includes 13 periods of length one hour or greater and equates to good periods 38%(!) of the time.

Note that the daytime periods may be compromised by work on the array, e.g. installing the pressure sensors.

For more details, see the ahats logbook at <https://wiki.ucar.edu/display/ahatslogbook>

[aster@aster S]\$ data_stats

sensor	dsm	sampid	nsamps	start	end	rate	minMaxDT(sec)	minMaxLen		
upwind:/var/tmp/gps_pty0	1	30	20	2008 07 01 23:47:24.385	07 01 23:47:33.643	2.05	0.155	1.043	70	73
upwind:/dev/ttyS1	1	1030	579	2008 07 01 23:47:24.045	07 01 23:47:33.669	60.05	0.013	0.026	12	12
upwind:/dev/ttyS2	1	1040	579	2008 07 01 23:47:24.049	07 01 23:47:33.685	59.98	0.013	0.027	12	12
upwind:/dev/ttyS5	1	1050	579	2008 07 01 23:47:24.041	07 01 23:47:33.671	60.02	0.008	0.021	12	12
upwind:/dev/ttyS6	1	1060	579	2008 07 01 23:47:24.042	07 01 23:47:33.681	59.96	0.009	0.021	12	12
upwind:/dev/ttyS7	1	1070	579	2008 07 01 23:47:24.042	07 01 23:47:33.682	59.96	0.009	0.021	12	12
upwind:/dev/ttyS8	1	1080	579	2008 07 01 23:47:24.042	07 01 23:47:33.682	59.96	0.009	0.021	12	12
upwind:/dev/ttyS9	1	1090	579	2008 07 01 23:47:24.042	07 01 23:47:33.672	60.03	0.007	0.022	12	12
upwind:/dev/ttyS10	1	1100	579	2008 07 01 23:47:24.043	07 01 23:47:33.672	60.03	0.007	0.022	12	12
upwind:/dev/ttyS11	1	1110	579	2008 07 01 23:47:24.051	07 01 23:47:33.682	60.01	0.008	0.022	12	12
downwind1:/var/tmp/gps_pty0	2	30	20	2008 07 01 23:47:24.502	07 01 23:47:33.669	2.07	0.155	0.944	70	73
downwind1:/dev/ttyS1	2	2010	579	2008 07 01 23:47:24.052	07 01 23:47:33.675	60.07	0.012	0.026	12	12
downwind1:/dev/ttyS2	2	2020	579	2008 07 01 23:47:24.047	07 01 23:47:33.683	59.98	0.007	0.019	14	14
downwind1:/dev/ttyS5	2	2030	579	2008 07 01 23:47:24.047	07 01 23:47:33.687	59.95	0.008	0.021	12	12
downwind1:/dev/ttyS6	2	2040	579	2008 07 01 23:47:24.047	07 01 23:47:33.677	60.02	0.008	0.021	12	12
downwind1:/dev/ttyS7	2	2050	579	2008 07 01 23:47:24.048	07 01 23:47:33.678	60.02	0.008	0.021	12	12
downwind1:/dev/ttyS8	2	2060	578	2008 07 01 23:47:24.048	07 01 23:47:33.668	59.98	0.009	0.021	12	12
downwind1:/dev/ttyS9	2	3030	579	2008 07 01 23:47:24.049	07 01 23:47:33.678	60.02	0.008	0.022	12	12
downwind1:/dev/ttyS10	2	3040	578	2008 07 01 23:47:24.049	07 01 23:47:33.668	59.98	0.009	0.021	12	12
downwind1:/dev/ttyS11	2	3050	578	2008 07 01 23:47:24.059	07 01 23:47:33.678	59.98	0.008	0.022	12	12
downwind1:/dev/ttyS12	2	3060	579	2008 07 01 23:47:24.049	07 01 23:47:33.679	60.02	0.008	0.021	12	12
downwind2:/var/tmp/gps_pty0	3	30	20	2008 07 01 23:47:24.388	07 01 23:47:33.655	2.05	0.156	1.043	70	73
downwind2:/dev/ttyS1	3	2070	579	2008 07 01 23:47:24.043	07 01 23:47:33.671	60.03	0.013	0.026	12	12
downwind2:/dev/ttyS2	3	2080	579	2008 07 01 23:47:24.041	07 01 23:47:33.681	59.96	0.013	0.027	12	12
downwind2:/dev/ttyS5	3	2090	579	2008 07 01 23:47:24.044	07 01 23:47:33.683	59.96	0.009	0.021	12	12
downwind2:/dev/ttyS6	3	2100	579	2008 07 01 23:47:24.053	07 01 23:47:33.684	60.02	0.009	0.022	12	12
downwind2:/dev/ttyS7	3	2110	579	2008 07 01 23:47:24.054	07 01 23:47:33.684	60.02	0.007	0.022	12	12
downwind2:/dev/ttyS8	3	2120	579	2008 07 01 23:47:24.054	07 01 23:47:33.685	60.02	0.007	0.023	12	12
downwind2:/dev/ttyS9	3	2130	579	2008 07 01 23:47:24.054	07 01 23:47:33.685	60.02	0.010	0.023	12	12
downwind2:/dev/ttyS10	3	3070	579	2008 07 01 23:47:24.055	07 01 23:47:33.685	60.02	0.010	0.023	12	12
downwind2:/dev/ttyS11	3	3080	579	2008 07 01 23:47:24.044	07 01 23:47:33.674	60.02	0.008	0.022	12	12
downwind2:/dev/ttyS12	3	3090	579	2008 07 01 23:47:24.044	07 01 23:47:33.674	60.02	0.008	0.022	12	12
downwind2:/dev/ttyS13	3	3100	579	2008 07 01 23:47:24.055	07 01 23:47:33.686	60.02	0.008	0.023	12	12
downwind2:/dev/ttyS14	3	3110	579	2008 07 01 23:47:24.056	07 01 23:47:33.686	60.02	0.009	0.023	12	12
profile:/var/tmp/gps_pty0	4	30	21	2008 07 01 23:47:24.340	07 01 23:47:33.508	2.18	0.107	0.944	49	73
profile:/dev/ttyS16	4	50	10	2008 07 01 23:47:24.150	07 01 23:47:33.130	1.00	0.930	1.060	19	19
profile:/dev/ttyS1	4	150	579	2008 07 01 23:47:24.042	07 01 23:47:33.666	60.06	0.012	0.026	12	12
profile:/dev/ttyS10	4	154	9	2008 07 01 23:47:24.893	07 01 23:47:33.573	0.92	1.079	1.091	30	30
profile:/dev/ttyS2	4	300	579	2008 07 01 23:47:24.047	07 01 23:47:33.680	60.00	0.011	0.027	12	12
profile:/dev/ttyS9	4	302	96	2008 07 01 23:47:24.092	07 01 23:47:33.592	10.00	0.099	0.101	47	47
profile:/dev/ttyS11	4	304	9	2008 07 01 23:47:24.653	07 01 23:47:33.234	0.93	1.069	1.081	30	30
profile:/dev/ttyS5	4	400	579	2008 07 01 23:47:24.056	07 01 23:47:33.686	60.02	0.008	0.021	12	12
profile:/dev/ttyS12	4	404	9	2008 07 01 23:47:24.423	07 01 23:47:33.214	0.91	1.090	1.100	30	30
profile:/dev/ttyS6	4	550	579	2008 07 01 23:47:24.047	07 01 23:47:33.687	59.96	0.009	0.021	12	12
profile:/dev/ttyS13	4	554	9	2008 07 01 23:47:24.353	07 01 23:47:33.243	0.90	1.109	1.121	30	30
profile:/dev/ttyS7	4	700	579	2008 07 01 23:47:24.047	07 01 23:47:33.687	59.96	0.009	0.021	12	12
profile:/dev/ttyS14	4	704	9	2008 07 01 23:47:24.313	07 01 23:47:33.103	0.91	1.090	1.100	30	30
profile:/dev/ttyS8	4	800	579	2008 07 01 23:47:24.056	07 01 23:47:33.687	60.01	0.009	0.021	12	12
profile:/dev/ttyS15	4	804	9	2008 07 01 23:47:24.223	07 01 23:47:32.973	0.91	1.089	1.100	30	30
pressure1:/var/tmp/gps_pty0	5	30	20	2008 07 01 23:47:24.407	07 01 23:47:33.584	2.07	0.156	0.944	70	73
pressure1:/dev/gpiomm_fcnr0	5	2034	96	2008 07 01 23:47:24.108	07 01 23:47:33.607	10.00	0.100	0.100	8	8

pressure1:/dev/gpiomm_fcncr1	5	2036	96	2008	07	01	23:47:24.108	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr2	5	2044	96	2008	07	01	23:47:24.108	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr3	5	2046	96	2008	07	01	23:47:24.108	07	01	23:47:33.608	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr4	5	2054	96	2008	07	01	23:47:24.108	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr5	5	2056	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr6	5	2064	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr7	5	2066	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr8	5	2074	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr9	5	2076	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr10	5	3054	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr11	5	3056	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr12	5	3064	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure1:/dev/gpiomm_fcncr13	5	3066	96	2008	07	01	23:47:24.107	07	01	23:47:33.607	10.00	0.100	0.100	8	8
pressure2:/var/tmp/gps_pty0	6	30	20	2008	07	01	23:47:24.321	07	01	23:47:33.487	2.07	0.156	0.944	70	73
pressure2:/dev/gpiomm_fcncr0	6	2084	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr1	6	2086	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr2	6	2094	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr3	6	2096	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr4	6	2104	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr5	6	2106	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr6	6	2114	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr7	6	2116	96	2008	07	01	23:47:24.088	07	01	23:47:33.588	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr8	6	3074	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr9	6	3076	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr10	6	3084	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr11	6	3086	97	2008	07	01	23:47:24.088	07	01	23:47:33.688	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr12	6	3094	97	2008	07	01	23:47:24.088	07	01	23:47:33.687	10.00	0.100	0.100	8	8
pressure2:/dev/gpiomm_fcncr13	6	3096	97	2008	07	01	23:47:24.088	07	01	23:47:33.687	10.00	0.100	0.100	8	8