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TABLE A-II - Listing of Data Taken With Two Wire Probe

$r/z$	$g\beta\Delta T F_0^{-2/3} z^{5/3}$	$W F_0^{-1/3} z^{1/3}$	$g^2 \beta^2 \bar{t}^2 F_0^{-4/3} z^{10/3}$	$g\beta \bar{w} t F_0^{-1} z^2$	$\bar{w}^2 F_0^{-2/3} z^{2/3}$
$z = 0.75m$ , ■					
0.000	9.277	3.526	11.320	1.727	0.955
0.043	7.455	2.552	12.040	2.145	1.139
0.100	5.347	2.090	8.323	1.464	1.100
0.159	1.672	0.705	2.436	0.431	0.353
$z = 0.87m$ , ●					
0.010	9.227	3.322	10.570	1.804	1.005
0.072	6.059	2.425	10.770	2.188	1.101
0.114	3.321	1.258	5.933	1.470	0.805
0.158	1.302	0.527	1.405	0.274	0.195
0.199	0.851	0.428	0.471	0.073	0.068
$z = 1.065m$ , ▲					
0.020	9.041	3.123	11.760	1.846	0.906
0.054	8.011	2.906	9.812	2.183	0.907
0.092	5.354	2.057	9.274	1.913	0.884
0.140	2.864	1.013	2.389	1.110	0.589
0.186	0.669	0.222	0.704	0.095	0.047
0.217	0.324	0.154	0.628	0.049	0.049
$z = 1.238m$ , ◆					
0.018	9.161	3.018	12.250	1.949	0.788
0.030	8.582	2.447	12.330	2.084	0.816
0.055	6.565	2.860	12.310	2.237	1.110

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TABLE A-III - Listing of Data Taken With Three Wire Probe

$r/z$	$g\beta\Delta T F_0^{-2/3} z^{5/3}$	$W F_0^{-1/3} z^{1/3}$	$g^2 \beta^2 \bar{v}^2 F_0^{-4/3} z^{10/3}$	$g\beta w t F_0^{-1} z^2$	$g\beta w t F_0^{-1} z^2$	$\overline{w^2 F_0^{-2/3} z^{2/3}}$	$\overline{w^2 F_0^{-2/3} z^{2/3}}$	$\overline{w w F_0^{-2/3} z^{2/3}}$
$z = 0.67m, \square$								
0.051	7.830	2.860	7.290	1.670	0.263	1.110	0.591	0.291
0.094	5.070	2.100	8.710	2.130	0.719	1.080	0.524	0.325
0.126	3.040	1.400	6.530	1.170	0.584	0.860	0.266	0.213
0.166	1.170	6.560	1.320	0.674	0.097	0.398	0.092	0.076
$z = 0.889m, \circ$								
0.000	9.670	3.480	10.900	1.780	0.050	1.110	0.736	0.0288
0.080	6.420	2.580	8.600	2.190	0.640	1.300	0.615	0.269
0.124	3.210	1.460	7.810	1.270	0.594	0.823	0.313	0.242
0.164	0.934	8.050	3.870	0.790	0.073	0.463	0.122	0.0619
0.200	0.267	7.860	2.270	0.842	0.076	0.488	0.120	0.0738
$z = 1.098m, \triangle$								
0.039	7.780	2.920	2.290	2.030	0.358	1.010	0.627	0.233
0.080	6.700	2.700	9.710	1.640	0.907	1.010	0.640	0.341
0.102	3.810	1.890	6.750	1.490	0.763	0.953	0.442	0.343
0.105	3.670	1.980	5.790	1.780	0.613	0.868	0.417	0.272
0.160	1.290	1.280	2.980	0.966	0.148	0.641	0.232	0.119
0.201	0.110	6.660	1.190	0.436	0.077	0.294	0.093	0.0488
$z = 1.29m, \nabla$								
0.000	9.390	3.240	10.600	1.850	0.159	0.993	0.693	0.0408
0.040	8.090	2.970	9.660	1.960	0.878	0.953	0.654	0.196
0.089	5.060	2.110	7.350	1.520	0.861	0.467	0.467	0.257
0.131	1.320	1.320	3.630	1.040	0.493	0.671	0.281	0.221
$z = 1.489m, \diamond$								
0.010	8.970	3.110	10.500	1.960	0.083	0.982	0.668	0.128
0.050	7.410	2.850	9.490	1.930	0.636	0.959	0.659	0.166
0.092	4.720	2.310	7.730	1.540	0.840	0.882	0.489	0.286
0.131	1.520	1.470	4.540	1.110	0.573	0.687	0.363	0.243

Table A-IV - Terms of the mean buoyancy equation

$\eta$	Radial Advection	Vertical Advection	Radial Transport	Vertical Transport	Error
0.00	0.00	-53.27	44.97	-3.60	11.89
0.02	-0.26	-49.00	41.70	-4.05	11.60
0.04	-0.72	-37.86	31.00	-4.64	12.22
0.06	-0.73	-23.90	18.70	-4.23	10.16
0.08	0.11	-11.36	8.61	-2.77	5.41
0.10	1.59	-2.78	2.10	-1.09	0.18
0.12	3.08	1.52	-1.30	0.11	-3.42
0.14	3.98	2.70	-2.64	0.70	-4.74
0.16	4.05	2.30	-2.87	0.84	-4.33
0.18	3.47	1.48	-2.59	0.75	-3.11

TABLE A-V - Terms of the Mean Momentum Equation

$\eta$	Radial Advection	Vertical Advection	Radial Transport	Vertical Transport	Buoyancy Force	Error
0.00	0.00	-3.85	12.72	0.30	-9.40	-0.23
0.02	0.00	-3.17	12.12	0.34	-9.15	0.15
0.04	0.00	-1.42	9.76	0.37	-8.43	0.28
0.06	-0.01	0.64	6.69	0.29	-7.36	0.26
0.08	0.00	2.25	3.70	0.10	-6.08	-0.04
0.10	0.03	3.00	1.31	-0.11	-4.76	-0.54
0.12	0.08	2.91	-0.29	-0.26	-3.53	-1.09
0.14	0.13	2.31	-1.17	-0.32	-2.48	-1.54
0.16	0.15	1.56	-1.53	-0.32	-1.65	-1.78
0.18	0.14	0.92	-1.55	-0.29	-1.04	-1.81

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TABLE A-VI - Terms of the Temperature Variance Equation

$\eta$	Advection	Diffusion	Production	Dissipation
0.000	70.8	5.2	28.9	-105.1
0.020	68.1	0.2	39.8	-108.3
0.040	59.0	-7.9	61.4	-112.5
0.060	43.0	-10.3	74.1	-106.9
0.080	24.9	-6.2	70.3	-89.0
0.100	10.2	-0.2	55.5	-65.5
0.120	1.5	3.8	38.3	-43.6
0.140	-2.1	5.1	23.8	-26.9
0.160	-2.8	4.6	13.7	-15.4
0.180	-2.4	3.4	7.3	-8.3

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TABLE A-VII - Terms of the Turbulence Kinetic Energy

$\eta$	Advection	Diffusion	Gradient Production	Buoyancy Production	Dissipation
0.000	2.7	-0.0	0.5	1.8	-5.0
0.020	2.6	-0.9	1.4	1.9	-5.1
0.040	2.2	-2.1	3.4	2.1	-5.8
0.060	1.4	-2.2	5.3	2.2	-6.8
0.080	0.3	-1.4	6.1	2.0	-7.1
0.100	-0.5	-0.3	5.6	1.6	-6.3
0.120	-1.1	0.2	4.3	1.1	-4.6
0.140	-1.3	0.4	2.9	0.8	-2.8
0.160	-1.2	0.3	1.6	0.5	-1.3
0.180	-0.9	0.2	0.8	0.3	-0.4