

df_all2015

Station	Depth	TP	Date	lat	lon	X	Y	Source	Date-Range
Alpha	5	1.89	2015-03-24	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	1.27	2015-03-24	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	1.53	2015-03-24	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
GH15	5	8.09	2015-04-01	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	April 1
Leg C #1	5	8.05	2015-04-01	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	5.95	2015-04-01	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	9.45	2015-04-01	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Alpha	5	6.8	2015-04-06	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	1.65	2015-04-06	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.09	2015-04-06	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	8.17	2015-04-14	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	April 14
Beta	5	3.14	2015-04-14	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
GH15	5	4.97	2015-04-14	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	8.19	2015-04-14	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	7.67	2015-04-14	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	4.92	2015-04-14	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Omega	5	1.66	2015-04-14	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	6.23	2015-05-11	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	May 11
Beta	5	2.85	2015-05-11	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
GH15	5	4.91	2015-05-11	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	5.35	2015-05-11	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	9.54	2015-05-11	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	11.78	2015-05-11	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Omega	5	2.85	2015-05-11	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	8.34	2015-06-01	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	June 1 - June 2
Beta	5	3.34	2015-06-01	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	3.08	2015-06-01	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Grand2S_20m	2	16.82	2015-06-02	43.03485842	-86.2766948	558922.186228983	4764939.59645206	CSMI	
Grand2S_10m	2	6.9	2015-06-02	43.03930031	-86.25119858	560994.778136075	4765451.07703667	CSMI	
Grand2S_5m	2	8.16	2015-06-02	43.0405629	-86.24394471	561584.3929103	4765596.58358886	CSMI	
GrandMth_20m	2	5.21	2015-06-02	43.05174376	-86.28520028	558213.33890223	4766808.77470047	CSMI	
GrandMth_10m	2	42.12	2015-06-02	43.05614293	-86.25989014	560270.298006852	4767315.16922786	CSMI	
Grand2N_20m	2	8.59	2015-06-02	43.06894509	-86.29136576	557695.088442756	4768714.725402	CSMI	
Grand2N_10m	2	6.28	2015-06-02	43.07393961	-86.26292249	560005.99849494	4769289.32078691	CSMI	
Grand2N_10m	2	14.67	2015-06-02	43.07393961	-86.26292249	560005.99849494	4769289.32078691	CSMI	
Grand2N_5m	2	4.95	2015-06-02	43.07503839	-86.25665898	560514.836009552	4769415.8399962	CSMI	
Grand5N_20m	2	7.03	2015-06-02	43.094526	-86.30433062	556615.960370152	4771546.66303684	CSMI	
Grand5N_20m	2	7.53	2015-06-02	43.094526	-86.30433062	556615.960370152	4771546.66303684	CSMI	
Grand5N_10m	2	13.4	2015-06-02	43.09979607	-86.27492078	559004.38205324	4772152.18383364	CSMI	
Grand5N_5m	2	18.39	2015-06-02	43.10104846	-86.26770355	559590.482228666	4772296.36678763	CSMI	
GH15	5	3.27	2015-06-02	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	7.26	2015-06-02	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	3.4	2015-06-02	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	6.59	2015-06-02	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Alpha	5	3.15	2015-06-15	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	5.17	2015-06-15	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.97	2015-06-15	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
GH15	5	4.68	2015-06-29	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Alpha	5	4.75	2015-07-01	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	3.29	2015-07-01	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	3.19	2015-07-01	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Musk10S_20m	2	9.32	2015-07-17	43.13888878	-86.32584947	554825.055880013	4776458.89481745	CSMI	July 17 - July 18

Musk10S_20m	2	8.6	2015-07-17	43.13888878	-86.32584947	554825.055880013	4776458.89481745	CSMI	
Musk10S_10m	2	13.83	2015-07-17	43.14429627	-86.29842753	557050.11452085	4777077.71287136	CSMI	
Musk10S_5m	2	8.41	2015-07-17	43.14528605	-86.29340407	557457.68404363	4777191.0625403	CSMI	
Musk2S_20m	2	21.23	2015-07-17	43.20209085	-86.36630342	551482.030475298	4783451.93989376	CSMI	
Musk2S_10m	2	16.96	2015-07-17	43.20909836	-86.33969816	553637.329521551	4784246.85283762	CSMI	
Musk2S_10m	2	6.8	2015-07-17	43.20909836	-86.33969816	553637.329521551	4784246.85283762	CSMI	
Musk2S_5m	2	13.13	2015-07-17	43.21115409	-86.33188756	554269.975606109	4784480.18359168	CSMI	
MuskMth_20m	2	7.81	2015-07-17	43.21836249	-86.37574169	550701.775203828	4785253.18878126	CSMI	
MuskMth_10m	2	16.92	2015-07-17	43.22482502	-86.35118557	552690.643760925	4785986.046226	CSMI	
Musk2N_20m	2	9.46	2015-07-17	43.23418967	-86.38826799	549671.543336433	4787003.33162058	CSMI	
Musk2N_10m	2	7.89	2015-07-17	43.2416606	-86.35987983	551970.26703904	4787850.2533068	CSMI	
Musk2N_5m	2	9.75	2015-07-17	43.24336776	-86.3533882	552495.846977393	4788043.89388899	CSMI	
Grand2S_20m	2	8.21	2015-07-18	43.03485842	-86.2766948	558922.186228983	4764939.59645206	CSMI	
Grand2S_10m	2	6.81	2015-07-18	43.03930031	-86.25119858	560994.778136075	4765451.07703667	CSMI	
Grand2S_5m	2	8.48	2015-07-18	43.0405629	-86.24394471	561584.3929103	4765596.58358886	CSMI	
GrandMth_20m	2	11.79	2015-07-18	43.05174376	-86.28520028	558213.33890223	4766808.77470047	CSMI	
GrandMth_10m	2	28.52	2015-07-18	43.05614293	-86.25989014	560270.298006852	4767315.16922786	CSMI	
GrandMth_5m	2	39.21	2015-07-18	43.05707665	-86.25451344	560707.226173679	4767422.73446551	CSMI	
Grand2N_20m	2	17.71	2015-07-18	43.06894509	-86.29136576	557695.088442756	4768714.725402	CSMI	
Grand2N_10m	2	19.55	2015-07-18	43.07393961	-86.26292249	560005.99849494	4769289.32078691	CSMI	
Grand2N_5m	2	20.3	2015-07-18	43.07503839	-86.25665898	560514.836009552	4769415.8399962	CSMI	
Grand5N_20m	2	14.93	2015-07-18	43.094526	-86.30433062	556615.960370152	4771546.66303684	CSMI	
Grand5N_10m	2	16.86	2015-07-18	43.09979607	-86.27492078	559004.38205324	4772152.18383364	CSMI	
Grand5N_5m	2	15.95	2015-07-18	43.10104846	-86.26770355	559590.482228666	4772296.36678763	CSMI	
Alpha	5	8.58	2015-07-21	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	July 21 - July 22
Beta	5	3.44	2015-07-21	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	3.09	2015-07-21	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
GH15	5	3.47	2015-07-22	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	5.87	2015-07-22	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	7.78	2015-07-22	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	5.34	2015-07-22	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
GH15	5	17.13	2015-08-03	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	August 3 - August 5
Leg C #1	5	11.63	2015-08-03	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	13.33	2015-08-03	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	8.76	2015-08-03	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Alpha	5	4.77	2015-08-05	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	2.17	2015-08-05	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.7	2015-08-05	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	2.94	2015-08-18	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	2.98	2015-08-18	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.66	2015-08-18	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	3.11	2015-09-01	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	September 1 - September 2
Beta	5	2.42	2015-09-01	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.64	2015-09-01	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
GH15	5	3.31	2015-09-02	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	3.27	2015-09-02	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	3.51	2015-09-02	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	3.82	2015-09-02	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Alpha	5	2.69	2015-09-21	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	2.44	2015-09-21	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.59	2015-09-21	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	2.89	2015-10-05	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	October 5
Beta	5	2.96	2015-10-05	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	2.79	2015-10-05	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	

GH15	5	12.77	2015-10-06	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	3.75	2015-10-06	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	2.39	2015-10-06	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	6.29	2015-10-06	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Alpha	5	3.17	2015-10-22	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	
Beta	5	2.93	2015-10-22	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
Omega	5	3.15	2015-10-22	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	4.95	2015-11-03	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	November 3
Beta	5	3.81	2015-11-03	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
GH15	5	4.63	2015-11-03	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	6.65	2015-11-03	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	5.6	2015-11-03	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	5.64	2015-11-03	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Omega	5	3.94	2015-11-03	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	
Alpha	5	3.69	2015-12-07	43.18817	-86.344	553306.099639673	4781919.95482314	Pothoven	December 7
Beta	5	3.17	2015-12-07	43.20617	-86.44967	544706.267740664	4783857.03170876	Pothoven	
GH15	5	3.25	2015-12-07	43.07282	-86.27887	558708.764461978	4769153.7040642	Pothoven	
Leg C #1	5	3.86	2015-12-07	43.22017	-86.35417	552452.266313198	4785467.21649018	Pothoven	
Leg D #1	5	4.58	2015-12-07	43.14233	-86.29933	556978.553785653	4776858.74122028	Pothoven	
Leg E #1	5	3.64	2015-12-07	43.05367	-86.26283	560033.304049781	4767038.44311217	Pothoven	
Omega	5	4.07	2015-12-07	43.19983	-86.56983	534948.62962508	4783095.77643593	Pothoven	