



NOBLE GAS LABORATORY
Lamont-Doherty Earth Observatory
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Data Report Stable Isotope Analysis

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Project: S4P
Client: Peter Schlosser
Institution: Lamont-Doherty Earth Observatory
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Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
24822	135	1	3	4/18/2011	465	-0.107 \pm 0.027	-2.184 \pm 0.167	
24843	129	1	27	4/17/2011	454	0.098 \pm 0.005	-0.937 \pm 0.063	
24827	135	1	27	4/18/2011	470	0.082 \pm 0.007	-0.761 \pm 0.130	
24842	129	1	26	4/17/2011	453	0.087 \pm 0.036	-0.722 \pm 0.044	
24847	129	1	31	4/17/2011	458	-0.015 \pm 0.009	-1.365 \pm 0.012	
24841	129	1	25	4/17/2011	452	-0.001 \pm 0.012	-1.403 \pm 0.108	
24852	129	1	36	4/17/2011	463	-0.370 \pm 0.013	-4.021 \pm 0.054	
24849	129	1	33	4/17/2011	460	-0.242 \pm 0.021	-2.887 \pm 0.044	
24839	129	1	5	4/17/2011	450	-0.109 \pm 0.022	-2.098 \pm 0.047	
24851	129	1	35	4/17/2011	462	-0.370 \pm 0.008	-3.960 \pm 0.080	
24830	135	1	30	4/18/2011	473	-0.093 \pm 0.027	-1.902 \pm 0.145	
24848	129	1	32	4/17/2011	459	-0.140 \pm 0.017	-2.145 \pm 0.057	
24846	129	1	30	4/17/2011	457	-0.049 \pm 0.028	-1.700 \pm 0.056	
24850	129	1	34	4/17/2011	461	-0.381 \pm 0.012	-3.966 \pm 0.058	
24864	111	1	32	4/6/2011	379	-0.234 \pm 0.028	-3.119 \pm 0.082	
24913	119	1	33		412	-0.336 \pm 0.032	-3.554 \pm 0.073	
24909	119	1	29		408	-0.143 \pm 0.030	-2.214 \pm 0.100	
24872	114	1	23	4/8/2011	387	0.000 \pm 0.036	-1.227 \pm 0.077	
24878	114	1	30	4/8/2011	393	-0.183 \pm 0.013	-2.551 \pm 0.109	
24867	111	1	35	4/6/2011	382	-0.359 \pm 0.026	-3.760 \pm 0.044	
24915	119	1	35		414	-0.434 \pm 0.008	-4.201 \pm 0.063	
24937	107	1	11	4/5/2011	356	-0.120 \pm 0.014	-1.881 \pm 0.052	
24880	114	1	32	4/8/2011	395	-0.284 \pm 0.033	-3.009 \pm 0.043	
24908	119	1	28		407	-0.048 \pm 0.015	-1.511 \pm 0.103	
24874	114	1	26	4/8/2011	389	0.004 \pm 0.031	-1.209 \pm 0.064	
24912	119	1	32		411	-0.313 \pm 0.045	-3.336 \pm 0.052	
24916	119	1	36		415	-0.379 \pm 0.010	-3.888 \pm 0.033	
24881	114	1	33	4/8/2011	396	-0.304 \pm 0.016	-3.466 \pm 0.071	
24870	114	1	3	4/8/2011	385	-0.117 \pm 0.051	-2.314 \pm 0.092	
24858	111	1	26	4/6/2011	373	-0.026 \pm 0.017	-1.226 \pm 0.065	
24854	111	1	3	4/6/2011	369	-0.195 \pm 0.041	-2.435 \pm 0.115	
24853	111	1	1	4/6/2011	368	-0.203 \pm 0.035	-2.473 \pm 0.033	
24871	114	1	5	4/8/2011	386	-0.152 \pm 0.050	-2.326 \pm 0.044	
24855	111	1	5	4/6/2011	370	-0.181 \pm 0.080	-2.423 \pm 0.101	
24865	111	1	33	4/6/2011	380	-0.338 \pm 0.045	-3.645 \pm 0.037	
24859	111	1	27	4/6/2011	374	-0.003 \pm 0.035	-1.253 \pm 0.050	
24862	111	1	30	4/6/2011	377	-0.112 \pm 0.032	-2.087 \pm 0.019	
24856	111	1	23	4/6/2011	371	0.005 \pm 0.031	-1.439 \pm 0.102	organic contamination may have altered results organic
24948	107	1	36	4/5/2011	367	-0.337 \pm 0.016	-4.195 \pm 0.057	organic contamination may have altered results organic

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
24876	114	1	28	4/8/2011	391	-0.041 \pm 0.014	-1.808 \pm 0.175	
24866	111	1	34	4/6/2011	381	-0.281 \pm 0.063	-3.708 \pm 0.103	
24868	111	1	36	4/6/2011	383	-0.346 \pm 0.037	-3.760 \pm 0.076	
24875	114	1	27	4/8/2011	390	-0.032 \pm 0.037	-1.391 \pm 0.022	
24877	114	1	29	4/8/2011	392	-0.050 \pm 0.003	-1.777 \pm 0.054	
24882	114	1	34	4/8/2011	397	-0.271 \pm 0.015	-3.625 \pm 0.043	
24873	114	1	25	4/8/2011	388	-0.007 \pm 0.023	-1.392 \pm 0.064	
24879	114	1	31	4/8/2011	394	-0.228 \pm 0.028	-2.839 \pm 0.014	
24914	119	1	34		413	-0.340 \pm 0.002	-3.891 \pm 0.046	
24903	119	1	5		402	-0.092 \pm 0.060	-2.196 \pm 0.043	
24884	114	1	36	4/8/2011	399	-0.375 \pm 0.080	-3.830 \pm 0.093	
24905	119	1	25		404	-0.050 \pm 0.021	-1.428 \pm 0.025	
24906	119	1	26		405	-0.072 \pm 0.021	-1.530 \pm 0.071	
24902	119	1	3		401	-0.138 \pm 0.008	-2.443 \pm 0.033	
25083	51	1	21	3/13/2011	199	-0.109 \pm 0.033	-2.035 \pm 0.042	
25085	51	1	25	3/13/2011	201	-0.033 \pm 0.000	-1.716 \pm 0.006	
24911	119	1	31		410	-0.322 \pm 0.049	-3.044 \pm 0.120	
24901	119	1	1		400	-0.224 \pm 0.004	-2.209 \pm 0.040	organic contamination may have altered results
24907	119	1	27		406	-0.085 \pm 0.089	-1.127 \pm 0.074	organic contamination may have altered results
24904	119	1	23		403	-0.073 \pm 0.021	-0.671 \pm 0.031	
24869	114	1	1	4/8/2011	384	-0.164 \pm 0.101	-2.100 \pm 0.023	organic contamination may have altered results
24861	111	1	29	4/6/2011	376	-0.072 \pm 0.065	-1.373 \pm 0.098	organic contamination may have altered results
24910	119	1	30	11/15/2011	409	\pm	\pm	
24860	111	1	28	4/6/2011	375	-0.121 \pm 0.053	-1.542 \pm 0.137	
24857	111	1	25	4/6/2011	372	-0.099 \pm 0.012	-1.225 \pm 0.011	
24863	111	1	31	4/6/2011	378	-0.253 \pm 0.076	-2.771 \pm 0.145	
25059	62	1	27	3/16/2011	246	-0.335 \pm 0.004	-3.396 \pm 0.111	
25057	62	1	21	3/16/2011	244	-0.037 \pm 0.039	-1.361 \pm 0.074	
25050	62	1	3	3/16/2011	237	-0.217 \pm 0.085	-2.613 \pm 0.076	
25051	62	1	5	3/16/2011	238	-0.163 \pm 0.040	-2.268 \pm 0.057	
24929	122	1	33	4/14/2011	428	-0.298 \pm 0.074	-3.945 \pm 0.269	
24921	122	1	25	4/14/2011	420	-0.066 \pm 0.066	-1.375 \pm 0.140	
24926	122	1	30	4/14/2011	425	-0.139 \pm 0.071	-2.152 \pm 0.077	
24925	122	1	29	4/14/2011	424	0.044 \pm 0.093	-1.782 \pm 0.158	
24927	122	1	31	4/14/2011	426	-0.085 \pm 0.089	-2.322 \pm 0.245	
24923	122	1	27	4/14/2011	422	-0.096 \pm 0.083	-2.492 \pm 0.065	
24932	122	1	36	4/14/2011	431	-0.302 \pm 0.137	-4.062 \pm 0.227	
24928	122	1	32	4/14/2011	427	-0.293 \pm 0.041	-3.389 \pm 0.210	
24930	122	1	34	4/14/2011	429	-0.332 \pm 0.093	-4.009 \pm 0.456	

Data Report Stable Isotope Analysis

S4P

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24922	122	1	26	4/14/2011	421	0.025 \pm 0.153	-1.409 \pm 0.175	
24931	122	1	35	4/14/2011	430	-0.303 \pm 0.062	-3.207 \pm 0.992	
24889	125	1	25	4/15/2011	436	-0.073 \pm 0.075	-2.313 \pm 0.347	
24834	135	1	34	4/18/2011	477	-0.591 \pm 0.010	-4.562 \pm 0.291	
24924	122	1	28	4/14/2011	423	-0.155 \pm 0.086	-1.727 \pm 0.037	
24920	122	1	23	4/14/2011	419	-0.079 \pm 0.068	-0.979 \pm 0.018	
24917	122	1	1	4/14/2011	416	-0.030 \pm 0.041	-2.267 \pm 0.297	
24918	122	1	3	4/14/2011	417	-0.087 \pm 0.094	-2.436 \pm 0.456	
24887	125	1	5	4/15/2011	434	-0.578 \pm 0.160	-3.471 \pm 0.109	
24888	125	1	23	4/15/2011	435	-0.294 \pm 0.149	-1.864 \pm 0.560	
24886	125	1	3	4/15/2011	433	-0.223 \pm 0.101	-2.434 \pm 0.543	
24885	125	1	1	4/15/2011	432	-0.461 \pm 0.090	-2.744 \pm 0.321	
24890	125	1	26	4/15/2011	437	-0.206 \pm 0.049	-1.517 \pm 0.265	
24899	125	1	35	4/15/2011	446	-0.481 \pm 0.036	-4.042 \pm 0.318	
24892	125	1	28	4/15/2011	439	-0.112 \pm 0.041	-1.720 \pm 0.189	
24895	125	1	31	4/15/2011	442	-0.259 \pm 0.043	-2.325 \pm 0.426	
24891	125	1	27	4/15/2011	438	-0.127 \pm 0.077	-1.620 \pm 0.897	
24900	125	1	36	4/15/2011	447	-0.487 \pm 0.084	-3.827 \pm 0.229	
24896	125	1	32	4/15/2011	443	-0.510 \pm 0.082	-3.676 \pm 0.192	
24898	125	1	34	4/15/2011	445	-0.420 \pm 0.046	-3.306 \pm 0.170	
24893	125	1	29	4/15/2011	440	-0.204 \pm 0.036	-1.476 \pm 0.362	
24894	125	1	30	4/15/2011	441	-0.203 \pm 0.071	-1.828 \pm 0.343	
24840	129	1	23	4/17/2011	451	-0.020 \pm 0.058	-1.600 \pm 0.522	
24897	125	1	33	4/15/2011	444	-0.270 \pm 0.049	-3.686 \pm 0.172	
24824	135	1	23	4/18/2011	467	0.002 \pm 0.023	-1.573 \pm 0.106	
24835	135	1	35	4/18/2011	478	-0.353 \pm 0.067	-4.157 \pm 0.356	
24845	129	1	29	4/17/2011	456	-0.082 \pm 0.112	-1.804 \pm 0.321	
24825	135	1	25	4/18/2011	468	0.055 \pm 0.024	-1.377 \pm 0.309	
24828	135	1	28	4/18/2011	471	-0.125 \pm 0.066	-2.193 \pm 0.132	
24826	135	1	26	4/18/2011	469	-0.017 \pm 0.103	-1.319 \pm 0.292	
24836	135	1	36	4/18/2011	479	-0.407 \pm 0.028	-4.202 \pm 0.363	
24831	135	1	31	4/18/2011	474	-0.117 \pm 0.076	-2.110 \pm 0.099	
24821	135	1	1	4/18/2011	464	-0.195 \pm 0.076	-2.753 \pm 0.138	
24829	135	1	29	4/18/2011	472	0.019 \pm 0.142	-1.643 \pm 0.424	
24832	135	1	32	4/18/2011	475	-0.257 \pm 0.026	-3.335 \pm 0.361	
24844	129	1	28	4/17/2011	455	-0.088 \pm 0.012	-1.635 \pm 0.072	
24838	129	1	3	4/17/2011	449	-0.180 \pm 0.041	-2.635 \pm 0.201	
24833	135	1	33	4/18/2011	476	-0.377 \pm 0.040	-4.017 \pm 0.128	
24837	129	1	1	4/17/2011	448	-0.158 \pm 0.030	-2.622 \pm 0.265	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
24823	135	1	5	4/18/2011	466	-0.135 \pm 0.060	-2.579 \pm 0.046	
25003	86	1	5	3/24/2011	286	-0.281 \pm 0.034	-2.604 \pm 0.252	
25020	82	1	23	3/24/2011	277	-0.156 \pm 0.090	-1.730 \pm 0.404	
25029	78	1	6	3/23/2011	268	-0.332 \pm 0.075	-2.706 \pm 0.139	
25031	78	1	14	3/23/2011	270	-0.601 \pm 0.034	-5.004 \pm 0.211	
25018	82	1	3	3/24/2011	275	-0.311 \pm 0.063	-2.159 \pm 0.135	
25033	78	1	20	3/23/2011	272	-0.616 \pm 0.022	-5.060 \pm 0.283	
25024	82	1	32	3/24/2011	281	-0.468 \pm 0.009	-4.911 \pm 0.103	
25019	82	1	21	3/24/2011	276	-0.085 \pm 0.018	-1.473 \pm 0.127	
25024	82	1	32	3/24/2011	281	-0.425 \pm 0.030	-5.153 \pm 0.231	
25027	78	1	1	3/23/2011	266	-0.319 \pm 0.077	-3.751 \pm 0.144	
25028	78	1	4	3/23/2011	267	-0.108 \pm 0.026	-2.716 \pm 0.076	
25034	78	1	21	3/23/2011	273	-0.371 \pm 0.035	-4.577 \pm 0.256	
25017	82	1	1	3/24/2011	274	-0.115 \pm 0.051	-2.814 \pm 0.264	
25025	82	1	34	3/24/2011	282	-0.304 \pm 0.061	-4.502 \pm 0.172	
25010	86	1	24	3/24/2011	293	-0.148 \pm 0.034	-1.603 \pm 0.221	
25001	86	1	1	3/24/2011	284	-0.210 \pm 0.012	-2.429 \pm 0.176	
25026	82	1	36	3/24/2011	283	-0.506 \pm 0.067	-4.804 \pm 0.121	
25013	86	1	30	3/24/2011	296	-0.341 \pm 0.032	-3.801 \pm 0.113	
25014	86	1	32	3/24/2011	297	-0.400 \pm 0.081	-4.907 \pm 0.075	
25004	86	1	7	3/24/2011	287	-0.089 \pm 0.069	-1.910 \pm 0.138	
25022	82	1	29	3/24/2011	279	-0.506 \pm 0.019	-5.229 \pm 0.178	
25030	78	1	9	3/23/2011	269	-0.497 \pm 0.049	-4.978 \pm 0.235	
25021	82	1	27	3/24/2011	280	-0.443 \pm 0.034	-4.367 \pm 0.189	
25007	86	1	18	3/24/2011	290	0.025 \pm 0.069	-1.386 \pm 0.254	
25032	78	1	18	3/23/2011	271	-0.430 \pm 0.059	-4.969 \pm 0.121	
25008	86	1	20	3/24/2011	291	0.069 \pm 0.160	-1.424 \pm 0.134	
25011	86	1	26	3/24/2011	294	0.137 \pm 0.140	-1.862 \pm 0.104	
25009	86	1	22	3/24/2011	292	-0.070 \pm 0.030	-1.512 \pm 0.136	
25012	86	1	28	3/24/2011	295	-0.052 \pm 0.123	-2.630 \pm 0.185	
25005	86	1	10	3/24/2011	288	-0.132 \pm 0.086	-2.056 \pm 0.132	
25002	86	1	3	3/24/2011	285	-0.213 \pm 0.084	-2.438 \pm 0.294	
25016	86	1	36	3/24/2011	299	-0.521 \pm 0.064	-5.105 \pm 0.319	
25015	86	1	34	3/24/2011	298	-0.585 \pm 0.111	-5.610 \pm 0.093	
25006	86	1	12	3/24/2011	289	-0.136 \pm 0.081	-2.032 \pm 0.270	
25287	83	2	7	3/24/2011	102A	-0.031 \pm 0.099	-1.785 \pm 0.039	
25288	83	2	11	3/24/2011	103A	-0.031 \pm 0.011	-1.800 \pm 0.078	
25295	83	2	27	3/24/2011	110A	-0.049 \pm 0.083	-1.704 \pm 0.116	
25296	83	2	29	3/24/2011	111A	-0.145 \pm 0.061	-2.494 \pm 0.192	

Data Report Stable Isotope Analysis

S4P

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25297	83	2	31	3/24/2011	112A	-0.405 \pm 0.024	-3.946 \pm 0.203	
25299	83	2	35	3/24/2011	114A	-0.551 \pm 0.114	-5.045 \pm 0.226	
25285	83	2	1	3/24/2011	100A	-0.243 \pm 0.080	-2.919 \pm 0.389	
25289	83	2	13	3/24/2011	104A	-0.067 \pm 0.083	-1.924 \pm 0.228	
25291	83	2	19	3/24/2011	106A	0.005 \pm 0.025	-1.255 \pm 0.137	
25292	83	2	21	3/24/2011	107A	0.035 \pm 0.143	-1.057 \pm 0.376	
25298	83	2	33	3/24/2011	113A	-0.178 \pm 0.187	-3.982 \pm 0.234	
25300	83	2	36	3/24/2011	115A	-0.400 \pm 0.083	-4.418 \pm 0.259	
25286	83	2	3	3/24/2011	101A	-0.236 \pm 0.049	-2.629 \pm 0.324	
25294	83	2	25	3/24/2011	109A	0.004 \pm 0.076	-1.204 \pm 0.156	
25290	83	2	15	3/24/2011	105A	-0.128 \pm 0.098	-1.527 \pm 0.060	
25293	83	2	23	3/24/2011	108A	-0.002 \pm 0.062	-1.096 \pm 0.115	
24919	122	1	5	4/14/2011	418	-0.150 \pm 0.106	-2.273 \pm 0.083	
25123	36	1	32	3/8/2011	159	-0.055 \pm 0.038	-1.797 \pm 0.323	
25121	36	1	30	3/8/2011	157	-0.118 \pm 0.054	-2.298 \pm 0.559	
25118	36	1	27	3/8/2011	154	-0.130 \pm 0.104	-2.005 \pm 0.357	
25117	36	1	25	3/8/2011	153	-0.098 \pm 0.055	-1.858 \pm 0.133	
25122	36	1	31	3/8/2011	158	-0.134 \pm 0.047	-1.998 \pm 0.235	
25114	36	1	5	3/8/2011	142	-0.195 \pm 0.034	-2.556 \pm 0.244	
25119	36	1	28	3/8/2011	155	0.004 \pm 0.134	-1.577 \pm 0.132	
25112	36	1	1	3/8/2011	140	-0.189 \pm 0.016	-3.473 \pm 0.445	
25113	36	1	3	3/8/2011	141	-0.183 \pm 0.069	-3.013 \pm 0.124	
25115	36	1	21	3/8/2011	151	0.086 \pm 0.069	-1.937 \pm 0.120	
25116	36	1	23	3/8/2011	152	0.040 \pm 0.114	-1.532 \pm 0.445	
25126	36	1	35	3/8/2011	162	-0.367 \pm 0.094	-4.086 \pm 0.320	
25120	36	1	29	3/8/2011	156	0.105 \pm 0.085	-1.402 \pm 0.181	
25099	42	1	21	3/10/2011	175	-0.085 \pm 0.118	-2.680 \pm 0.091	
25096	42	1	1	3/10/2011	164	-0.269 \pm 0.162	-3.377 \pm 0.326	
25102	42	1	27	3/10/2011	178	-0.113 \pm 0.140	-1.584 \pm 0.125	
25098	42	1	5	3/10/2011	166	-0.197 \pm 0.120	-2.805 \pm 0.277	
25100	42	1	23	3/10/2011	176	-0.035 \pm 0.228	-1.994 \pm 0.312	
25104	42	1	29	3/10/2011	180	-0.114 \pm 0.061	-2.397 \pm 0.224	
25109	42	1	34	3/10/2011	185	-0.417 \pm 0.057	-3.888 \pm 0.171	
25105	42	1	30	3/10/2011	181	-0.112 \pm 0.114	-2.241 \pm 0.085	
25103	42	1	28	3/10/2011	179	-0.102 \pm 0.042	-1.886 \pm 0.322	
25091	51	1	32	3/13/2011	207	-0.332 \pm 0.105	-3.436 \pm 0.170	
25101	42	1	25	3/10/2011	177	-0.070 \pm 0.067	-1.458 \pm 0.396	
25097	42	1	3	3/10/2011	165	-0.228 \pm 0.053	-2.429 \pm 0.434	
25106	42	1	31	3/10/2011	182	-0.255 \pm 0.062	-2.792 \pm 0.242	

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S4P

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25088	51	1	29	3/13/2011	204	-0.050 \pm 0.060	-1.085 \pm 0.105	
25110	42	1	35	3/10/2011	186	-0.585 \pm 0.170	-4.535 \pm 0.201	
25093	51	1	34	3/13/2011	209	-0.371 \pm 0.088	-3.967 \pm 0.204	
25111	42	1	36	3/10/2011	187	-0.412 \pm 0.051	-4.072 \pm 0.210	
25107	42	1	32	3/10/2011	183	-0.385 \pm 0.146	-3.060 \pm 0.177	
25344	48	1	35	3/12/2011	51A	-0.466 \pm 0.063	-3.864 \pm 0.125	
25345	48	1	36	3/12/2011	52A	-0.345 \pm 0.045	-3.991 \pm 0.127	
25343	48	1	33	3/12/2011	50A	-0.302 \pm 0.208	-3.918 \pm 0.384	
25340	48	1	27	3/12/2011	47A	0.005 \pm 0.076	-1.288 \pm 0.095	
25339	48	1	25	3/12/2011	46A	0.076 \pm 0.161	-1.326 \pm 0.176	
25342	48	1	31	3/12/2011	49A	-0.066 \pm 0.088	-2.083 \pm 0.249	
25336	48	1	19	3/12/2011	43A	-0.105 \pm 0.077	-1.493 \pm 0.252	
25108	42	1	33	3/10/2011	184	-0.210 \pm 0.204	-2.970 \pm 0.409	
25337	48	1	21	3/12/2011	44A	-0.336 \pm 0.259	-1.686 \pm 0.471	
25331	48	1	5	3/12/2011	38A	-0.323 \pm 0.089	-2.724 \pm 0.158	
25338	48	1	23	3/12/2011	45A	-0.107 \pm 0.272	-1.024 \pm 0.413	
25341	48	1	29	3/12/2011	48A	-0.037 \pm 0.127	-1.071 \pm 0.579	
25335	48	1	18	3/12/2011	42A	-0.196 \pm 0.116	-1.146 \pm 0.430	
25092	51	1	33	3/13/2011	208	-0.445 \pm 0.092	-2.793 \pm 0.640	
25334	48	1	15	3/12/2011	41A	-0.085 \pm 0.086	-2.162 \pm 0.567	
25330	48	1	1	3/12/2011	37A	-0.236 \pm 0.050	-2.456 \pm 0.601	
25332	48	1	9	3/12/2011	39A	-0.259 \pm 0.101	-1.920 \pm 0.692	
25333	48	1	12	3/12/2011	40A	-0.116 \pm 0.093	-1.285 \pm 0.146	
25094	51	1	35	3/13/2011	210	-0.398 \pm 0.127	-3.377 \pm 0.693	
25042	65	2	6	3/17/2011	253	-0.543 \pm 0.124	-3.721 \pm 0.909	
25049	62	1	1	3/16/2011	236	-0.212 \pm 0.160	-2.673 \pm 0.609	
25036	66	2	3	3/17/2011	261	-0.609 \pm 0.103	-5.167 \pm 0.047	
25035	66	2	1	3/17/2011	260	-0.572 \pm 0.050	-5.808 \pm 0.314	
25314	77	1	20	3/22/2011	83A	-0.615 \pm 0.027	-5.885 \pm 0.081	
25063	62	1	35	3/16/2011	250	-0.495 \pm 0.071	-4.713 \pm 0.427	
25056	62	1	19	3/16/2011	243	-0.064 \pm 0.032	-1.438 \pm 0.049	
25052	62	1	9	3/16/2011	239	-0.116 \pm 0.011	-1.720 \pm 0.112	organic contamination may have altered results
25064	62	1	36	3/16/2011	251	-0.475 \pm 0.040	-4.606 \pm 0.122	
25053	62	1	11	3/16/2011	240	-0.148 \pm 0.036	-2.360 \pm 0.230	
25037	66	2	6	3/17/2011	262	-0.672 \pm 0.043	-6.009 \pm 0.137	
25040	66	2	14	3/17/2011	265	-0.608 \pm 0.000	-5.658 \pm 0.090	
25039	66	2	12	3/17/2011	264	-0.595 \pm 0.031	-5.681 \pm 0.221	
25312	77	1	16	3/22/2011	81A	-0.628 \pm 0.022	-5.924 \pm 0.119	
25045	65	2	18	3/17/2011	256	-0.606 \pm 0.035	-5.784 \pm 0.119	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25047	65	2	22	3/17/2011	258	-0.634 \pm 0.029	-6.191 \pm 0.164	
25044	65	2	14	3/17/2011	255	-0.650 \pm 0.024	-6.153 \pm 0.084	
25062	62	1	34	3/16/2011	249	-0.521 \pm 0.063	-5.139 \pm 0.237	
25306	77	1	6	3/22/2011	75A	-0.097 \pm 0.039	-1.799 \pm 0.186	
25311	77	1	14	3/22/2011	80A	-0.618 \pm 0.037	-5.991 \pm 0.187	
25310	77	1	12	3/22/2011	79A	-0.592 \pm 0.012	-5.989 \pm 0.111	
25307	77	1	7	3/22/2011	76A	-0.063 \pm 0.045	-1.567 \pm 0.197	
25038	66	2	10	3/17/2011	263	-0.573 \pm 0.039	-5.667 \pm 0.134	
25304	77	1	4	3/22/2011	73A	-0.044 \pm 0.016	-1.524 \pm 0.186	
25048	65	2	24	3/17/2011	259	-0.580 \pm 0.034	-5.701 \pm 0.126	
25313	77	1	18	3/22/2011	82A	-0.593 \pm 0.017	-5.908 \pm 0.145	
25301	77	1	1	3/22/2011	70A	-0.062 \pm 0.050	-1.784 \pm 0.044	
25043	65	2	10	3/17/2011	254	-0.645 \pm 0.016	-6.178 \pm 0.109	
25269	90	1	1	3/26/2011	84A	-0.604 \pm 0.014	-5.827 \pm 0.146	
25305	77	1	5	3/22/2011	74A	-0.043 \pm 0.003	-1.429 \pm 0.072	
25041	65	2	3	3/17/2011	252	0.005 \pm 0.033	-1.197 \pm 0.044	
25309	77	1	10	3/22/2011	78A	-0.531 \pm 0.020	-5.376 \pm 0.081	
25313	77	1	18	3/22/2011	82A	-0.420 \pm 0.031	-4.772 \pm 0.056	
25306	77	1	6	3/22/2011	75A	-0.577 \pm 0.008	-5.080 \pm 0.067	
25303	77	1	3	3/22/2011	72A	-0.525 \pm 0.005	-4.976 \pm 0.060	
25308	77	1	8	3/22/2011	77A	-0.533 \pm 0.067	-5.289 \pm 0.181	
25301	77	1	1	3/22/2011	70A	-0.531 \pm 0.074	-5.121 \pm 0.313	
25046	65	2	20	3/17/2011	257	-0.582 \pm 0.049	-5.719 \pm 0.143	
25309	77	1	10	3/22/2011	78A	-0.497 \pm 0.076	-4.934 \pm 0.199	
25302	77	1	2	3/22/2011	71A	-0.006 \pm 0.029	-1.520 \pm 0.073	
25311	77	1	14	3/22/2011	80A	-0.468 \pm 0.066	-4.742 \pm 0.222	
25314	77	1	20	3/22/2011	83A	-0.580 \pm 0.037	-5.551 \pm 0.259	
25312	77	1	16	3/22/2011	81A	-0.494 \pm 0.105	-4.997 \pm 0.259	
25302	77	1	2	3/22/2011	71A	-0.539 \pm 0.050	-5.182 \pm 0.071	
25304	77	1	4	3/22/2011	73A	-0.486 \pm 0.011	-4.917 \pm 0.057	
25310	77	1	12	3/22/2011	79A	-0.494 \pm 0.053	-4.988 \pm 0.173	
25340	48	1	27	3/12/2011	47A	-0.439 \pm 0.035	-4.824 \pm 0.078	
25307	77	1	7	3/22/2011	76A	-0.570 \pm 0.029	-5.465 \pm 0.283	
25409	7	1	3	2/23/2011	2	-0.376 \pm 0.056	-4.052 \pm 0.176	
25412	7	1	9	2/23/2011	5	-0.334 \pm 0.028	-3.838 \pm 0.048	
25411	7	1	7	2/23/2011	4	-0.367 \pm 0.032	-3.886 \pm 0.076	
25422	7	1	29	2/23/2011	15	-0.167 \pm 0.025	-2.589 \pm 0.026	
25423	7	1	31	2/23/2011	16	-0.337 \pm 0.013	-3.649 \pm 0.055	
25408	7	1	1	2/23/2011	1	-0.471 \pm 0.045	-4.457 \pm 0.211	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25420	7	1	25	2/23/2011	13	-0.187 \pm 0.025	-2.373 \pm 0.104	
25415	7	1	15	2/23/2011	8	-0.330 \pm 0.047	-3.685 \pm 0.099	
25413	7	1	11	2/23/2011	6	-0.358 \pm 0.065	-3.763 \pm 0.137	
25410	7	1	5	2/23/2011	3	-0.402 \pm 0.084	-3.844 \pm 0.100	
25426	7	1	36	2/23/2011	19	-0.303 \pm 0.040	-3.308 \pm 0.092	
25424	7	1	33	2/23/2011	17	-0.392 \pm 0.036	-4.043 \pm 0.195	
25419	7	1	23	2/23/2011	12	-0.155 \pm 0.031	-2.298 \pm 0.125	
25417	7	1	19	2/23/2011	10	-0.246 \pm 0.036	-2.946 \pm 0.025	
25416	7	1	17	2/23/2011	9	-0.357 \pm 0.057	-3.893 \pm 0.050	
25425	7	1	35	2/23/2011	18	-0.302 \pm 0.030	-3.337 \pm 0.054	
25414	7	1	13	2/23/2011	7	-0.352 \pm 0.012	-3.877 \pm 0.092	
25421	7	1	27	2/23/2011	14	-0.201 \pm 0.053	-2.387 \pm 0.082	
25418	7	1	21	2/23/2011	11	-0.213 \pm 0.043	-2.430 \pm 0.032	
25227	8	1	32	2/23/2011	39	-0.071 \pm 0.035	-2.803 \pm 0.233	
25222	8	1	25	2/23/2011	34	0.178 \pm 0.035	-1.116 \pm 0.097	
25224	8	1	29	2/23/2011	36	-0.026 \pm 0.112	-2.308 \pm 0.261	
25213	8	1	7	2/23/2011	25	0.106 \pm 0.060	-1.488 \pm 0.159	
25214	8	1	9	2/23/2011	26	0.157 \pm 0.053	-1.242 \pm 0.126	
25229	8	1	34	2/23/2011	41	0.063 \pm 0.055	-1.943 \pm 0.158	
25215	8	1	11	2/23/2011	27	-0.205 \pm 0.063	-2.963 \pm 0.236	
25220	8	1	21	2/23/2011	32	-0.041 \pm 0.091	-1.803 \pm 0.215	
25219	8	1	19	2/23/2011	31	0.045 \pm 0.022	-1.443 \pm 0.070	
25208	8	1	1	2/23/2011	20	-0.341 \pm 0.063	-3.830 \pm 0.161	
25209	8	1	2	2/23/2011	21	-0.265 \pm 0.048	-3.501 \pm 0.145	
25226	8	1	31	2/23/2011	38	-0.165 \pm 0.012	-2.974 \pm 0.025	
25221	8	1	23	2/23/2011	33	-0.113 \pm 0.052	-2.331 \pm 0.265	
25228	8	1	33	2/23/2011	40	-0.282 \pm 0.009	-3.177 \pm 0.007	
25216	8	1	13	2/23/2011	28	-0.187 \pm 0.051	-2.431 \pm 0.065	
25218	8	1	17	2/23/2011	30	-0.083 \pm 0.028	-1.944 \pm 0.019	
25210	8	1	3	2/23/2011	22	-0.322 \pm 0.051	-3.463 \pm 0.086	
25212	8	1	5	2/23/2011	24	-0.237 \pm 0.005	-3.127 \pm 0.099	
25211	8	1	4	2/23/2011	23	-0.380 \pm 0.115	-3.949 \pm 0.222	
25217	8	1	15	2/23/2011	29	-0.178 \pm 0.062	-2.356 \pm 0.042	
25231	8	1	36	2/23/2011	43	-0.308 \pm 0.025	-3.269 \pm 0.056	
25225	8	1	30	2/23/2011	37	-0.288 \pm 0.039	-3.229 \pm 0.095	
25223	8	1	27	2/23/2011	35	-0.172 \pm 0.043	-2.716 \pm 0.093	
25230	8	1	35	2/23/2011	42	-0.272 \pm 0.023	-3.143 \pm 0.044	
25393	11	1	15	2/26/2011	15A	-0.161 \pm 0.017	-2.597 \pm 0.220	
25386	11	1	3	2/26/2011	3A	-0.344 \pm 0.041	-3.586 \pm 0.082	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25388	11	1	5	2/26/2011	5A	-0.255 \pm 0.051	-3.042 \pm 0.038	
25391	11	1	11	2/26/2011	11A	-0.139 \pm 0.013	-2.204 \pm 0.014	
25398	11	1	25	2/26/2011	25A	-0.150 \pm 0.038	-2.121 \pm 0.060	
25400	11	1	29	2/26/2011	29A	-0.253 \pm 0.064	-3.222 \pm 0.135	
25385	11	1	2	2/26/2011	2A	-0.340 \pm 0.015	-3.615 \pm 0.048	
25058	62	1	23	3/16/2011	245	-0.045 \pm 0.033	-1.341 \pm 0.045	
25055	62	1	17	3/16/2011	242	-0.083 \pm 0.096	-1.785 \pm 0.177	
25060	62	1	29	3/16/2011	247	-0.513 \pm 0.082	-5.229 \pm 0.088	
25320	60	1	25	3/15/2011	59A	0.107 \pm 0.024	-0.857 \pm 0.127	
25323	60	1	29	3/15/2011	62A	-0.066 \pm 0.089	-1.642 \pm 0.038	
25061	62	1	33	3/16/2011	248	-0.418 \pm 0.055	-4.728 \pm 0.079	
25054	62	1	15	3/16/2011	241	-0.003 \pm 0.069	-1.168 \pm 0.145	
25326	60	1	33	3/15/2011	66A	-0.391 \pm 0.074	-4.348 \pm 0.328	
25324	60	1	30	3/15/2011	63A	-0.365 \pm 0.129	-4.148 \pm 0.040	
25315	60	1	1	3/15/2011	54A	-0.230 \pm 0.094	-2.767 \pm 0.032	
25318	60	1	21	3/15/2011	57A	0.023 \pm 0.054	-1.315 \pm 0.106	
25329	60	1	36	3/15/2011	69A	-0.487 \pm 0.045	-4.420 \pm 0.064	
25327	60	1	34	3/15/2011	67A	-0.247 \pm 0.093	-3.547 \pm 0.129	
25069	57	1	23	3/14/2011	224	-0.180 \pm 0.072	-1.968 \pm 0.206	
25322	60	1	28	3/15/2011	61A	-0.127 \pm 0.027	-1.534 \pm 0.087	
25325	60	1	31	3/15/2011	64A	-0.321 \pm 0.023	-3.378 \pm 0.069	
25067	57	1	5	3/14/2011	214	-0.194 \pm 0.086	-2.259 \pm 0.081	
25068	57	1	21	3/14/2011	223	-0.114 \pm 0.110	-1.323 \pm 0.114	
25077	57	1	34	3/14/2011	233	-0.366 \pm 0.061	-3.507 \pm 0.052	
25321	60	1	27	3/15/2011	60A	-0.142 \pm 0.114	-2.029 \pm 0.275	
25071	57	1	28	3/14/2011	227	-0.132 \pm 0.087	-1.519 \pm 0.162	
25317	60	1	5	3/15/2011	56A	-0.191 \pm 0.094	-2.247 \pm 0.175	
25073	57	1	30	3/14/2011	229	-0.160 \pm 0.023	-2.295 \pm 0.025	
25089	51	1	30	3/13/2011	205	-0.071 \pm 0.052	-1.526 \pm 0.159	
25084	51	1	23	3/13/2011	200	-0.020 \pm 0.033	-1.344 \pm 0.130	
25079	57	1	36	3/14/2011	235	-0.447 \pm 0.039	-4.745 \pm 0.277	
25090	51	1	31	3/13/2011	206	-0.182 \pm 0.032	-2.512 \pm 0.081	
25066	57	1	3	3/14/2011	213	-0.199 \pm 0.057	-2.657 \pm 0.072	
25082	51	1	5	3/13/2011	190	-0.215 \pm 0.029	-2.739 \pm 0.031	
25075	57	1	32	3/14/2011	231	-0.312 \pm 0.031	-3.421 \pm 0.044	
25072	57	1	29	3/14/2011	228	-0.119 \pm 0.078	-1.846 \pm 0.078	
25065	57	1	1	3/14/2011	212	-0.291 \pm 0.018	-2.769 \pm 0.134	
25328	60	1	35	3/15/2011	68A	-0.492 \pm 0.053	-4.390 \pm 0.058	
25080	51	1	1	3/13/2011	188	-0.249 \pm 0.047	-3.333 \pm 0.355	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25319	60	1	23	3/15/2011	58A	-0.101 \pm 0.093	-1.435 \pm 0.184	
25087	51	1	28	3/13/2011	203	-0.007 \pm 0.073	-1.354 \pm 0.122	
25316	60	1	3	3/15/2011	55A	-0.249 \pm 0.093	-2.467 \pm 0.190	
25074	57	1	31	3/14/2011	230	-0.283 \pm 0.038	-2.899 \pm 0.045	
25070	57	1	27	3/14/2011	226	0.018 \pm 0.142	-0.997 \pm 0.189	
25086	51	1	27	3/13/2011	202	-0.187 \pm 0.016	-2.294 \pm 0.276	
25078	57	1	35	3/14/2011	234	-0.424 \pm 0.072	-4.081 \pm 0.119	
24883	114	1	35	4/8/2011	398	-0.394 \pm 0.063	-3.769 \pm 0.142	
25076	57	1	33	3/14/2011	232	-0.417 \pm 0.090	-3.732 \pm 0.172	
25081	51	1	3	3/13/2011	189	-0.265 \pm 0.131	-2.880 \pm 0.182	
25095	51	1	36	3/13/2011	211	-0.441 \pm 0.032	-4.027 \pm 0.153	
25169	18	1	23	3/1/2011	85	-0.110 \pm 0.087	-2.084 \pm 0.248	
25148	24	1	23	3/4/2011	104	-0.024 \pm 0.026	-1.467 \pm 0.062	
25174	18	1	35	3/1/2011	90	-0.281 \pm 0.117	-3.601 \pm 0.379	
25164	18	1	11	3/1/2011	80	-0.110 \pm 0.170	-1.781 \pm 0.243	
25175	18	1	36	3/1/2011	91	-0.326 \pm 0.064	-3.628 \pm 0.056	
25172	18	1	31	3/1/2011	88	-0.222 \pm 0.161	-2.623 \pm 0.278	
25162	18	1	5	3/1/2011	78	-0.232 \pm 0.023	-3.060 \pm 0.383	
25160	18	1	1	3/1/2011	76	-0.207 \pm 0.080	-2.654 \pm 0.156	
25168	18	1	21	3/1/2011	84	-0.089 \pm 0.005	-1.500 \pm 0.067	
25166	18	1	17	3/1/2011	82	-0.001 \pm 0.068	-1.459 \pm 0.133	
25151	24	1	28	3/4/2011	107	-0.073 \pm 0.043	-1.552 \pm 0.107	
25173	18	1	34	3/1/2011	89	-0.351 \pm 0.078	-3.475 \pm 0.167	
25163	18	1	9	3/1/2011	79	-0.234 \pm 0.108	-2.832 \pm 0.237	
25159	24	1	36	3/4/2011	115	-0.335 \pm 0.049	-3.804 \pm 0.166	
25171	18	1	29	3/1/2011	87	-0.136 \pm 0.057	-1.775 \pm 0.107	
25170	18	1	27	3/1/2011	86	-0.117 \pm 0.143	-1.381 \pm 0.356	
25155	24	1	32	3/4/2011	111	-0.298 \pm 0.098	-3.275 \pm 0.261	
25165	18	1	15	3/1/2011	81	-0.104 \pm 0.046	-1.661 \pm 0.056	
25157	24	1	34	3/4/2011	113	-0.384 \pm 0.118	-3.787 \pm 0.214	
25156	24	1	33	3/4/2011	112	-0.333 \pm 0.065	-3.717 \pm 0.039	
25149	24	1	25	3/4/2011	105	0.064 \pm 0.093	-1.774 \pm 0.440	
25152	24	1	29	3/4/2011	108	-0.051 \pm 0.031	-1.640 \pm 0.244	
25161	18	1	3	3/1/2011	77	-0.046 \pm 0.057	-1.998 \pm 0.169	
25154	24	1	31	3/4/2011	110	-0.140 \pm 0.090	-2.573 \pm 0.094	
25144	24	1	1	3/4/2011	92	-0.048 \pm 0.054	-2.356 \pm 0.155	
25147	24	1	21	3/4/2011	103	0.100 \pm 0.076	-0.978 \pm 0.084	
25137	30	1	30	3/6/2011	133	-0.177 \pm 0.119	-2.514 \pm 0.171	
25150	24	1	27	3/4/2011	106	-0.196 \pm 0.054	-1.745 \pm 0.131	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25146	24	1	5	3/4/2011	94	-0.333 \pm 0.119	-2.762 \pm 0.130	
25140	30	1	33	3/6/2011	136	-0.233 \pm 0.091	-2.736 \pm 0.091	
25145	24	1	3	3/4/2011	93	-0.148 \pm 0.045	-2.644 \pm 0.254	
25158	24	1	35	3/4/2011	114	-0.435 \pm 0.154	-3.811 \pm 0.180	
25143	30	1	36	3/6/2011	139	-0.412 \pm 0.086	-4.205 \pm 0.478	
25129	30	1	3	3/6/2011	117	-0.179 \pm 0.123	-2.709 \pm 0.289	
25139	30	1	32	3/6/2011	135	-0.055 \pm 0.094	-1.708 \pm 0.201	
25141	30	1	34	3/6/2011	137	-0.210 \pm 0.016	-2.880 \pm 0.270	
25134	30	1	27	3/6/2011	130	0.044 \pm 0.036	-1.052 \pm 0.124	
25142	30	1	35	3/6/2011	138	-0.269 \pm 0.073	-3.045 \pm 0.155	
25131	30	1	21	3/6/2011	127	-0.282 \pm 0.020	-2.737 \pm 0.431	
25135	30	1	28	3/6/2011	131	-0.286 \pm 0.038	-1.932 \pm 0.144	
25130	30	1	5	3/6/2011	118	-0.370 \pm 0.029	-2.837 \pm 0.167	
25133	30	1	25	3/6/2011	129	-0.209 \pm 0.084	-1.762 \pm 0.291	
25125	36	1	34	3/8/2011	161	-0.483 \pm 0.063	-4.199 \pm 0.236	
25136	30	1	29	3/6/2011	132	-0.134 \pm 0.057	-1.791 \pm 0.218	
25127	36	1	36	3/8/2011	163	-0.557 \pm 0.102	-4.914 \pm 0.262	
25128	30	1	1	3/6/2011	116	-0.349 \pm 0.088	-3.036 \pm 0.040	
25132	30	1	23	3/6/2011	128	-0.150 \pm 0.101	-1.525 \pm 0.279	
25138	30	1	31	3/6/2011	134	-0.123 \pm 0.154	-1.510 \pm 0.287	
25124	36	1	33	3/8/2011	160	-0.414 \pm 0.058	-3.365 \pm 0.163	
25259	93	1	21	3/27/2011	124A	-0.076 \pm 0.093	-1.431 \pm 0.240	
25266	93	1	33	3/27/2011	129A	-0.261 \pm 0.043	-3.327 \pm 0.068	
25252	93	1	7	3/27/2011	117A	-0.128 \pm 0.050	-2.460 \pm 0.040	
25267	93	1	34	3/27/2011	133A	-0.238 \pm 0.101	-3.318 \pm 0.337	
25264	93	1	31	3/27/2011	132A	-0.089 \pm 0.019	-1.908 \pm 0.084	
25262	93	1	29	3/27/2011	131A	-0.051 \pm 0.057	-1.178 \pm 0.285	
25254	93	1	11	3/27/2011	119A	-0.087 \pm 0.008	-1.696 \pm 0.076	
25260	93	1	27	3/27/2011	125A	0.046 \pm 0.052	-0.949 \pm 0.143	
25255	93	1	13	3/27/2011	120A	-0.047 \pm 0.037	-1.371 \pm 0.106	
25283	90	1	35	3/26/2011	98A	-0.354 \pm 0.113	-3.911 \pm 0.515	
25253	93	1	9	3/27/2011	118A	-0.137 \pm 0.074	-2.154 \pm 0.416	
25261	93	1	28	3/27/2011	126A	-0.026 \pm 0.018	-1.211 \pm 0.070	
25256	93	1	14	3/27/2011	121A	0.010 \pm 0.010	-1.257 \pm 0.113	
25268	93	1	35	3/27/2011	130A	-0.334 \pm 0.102	-3.575 \pm 0.420	
25258	93	1	19	3/27/2011	123A	-0.048 \pm 0.062	-1.314 \pm 0.364	
25279	90	1	28	3/26/2011	94A	-0.055 \pm 0.025	-1.709 \pm 0.150	
25263	93	1	30	3/27/2011	127A	-0.068 \pm 0.066	-1.487 \pm 0.276	
25257	93	1	17	3/27/2011	122A	-0.058 \pm 0.072	-1.560 \pm 0.194	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25272	90	1	11	3/26/2011	87A	-0.064 \pm 0.076	-1.725 \pm 0.202	
25273	90	1	16	3/26/2011	88A	-0.045 \pm 0.047	-1.543 \pm 0.239	
25278	90	1	26	3/26/2011	93A	0.047 \pm 0.030	-0.982 \pm 0.162	
25275	90	1	20	3/26/2011	90A	-0.101 \pm 0.066	-2.046 \pm 0.065	
25269	90	1	1	3/26/2011	84A	-0.213 \pm 0.021	-2.776 \pm 0.048	
25282	90	1	34	3/26/2011	97A	-0.300 \pm 0.037	-3.434 \pm 0.102	
25277	90	1	25	3/26/2011	92A	0.000 \pm 0.016	-1.245 \pm 0.098	
25280	90	1	30	3/26/2011	95A	-0.122 \pm 0.040	-2.114 \pm 0.169	
25276	90	1	22	3/26/2011	91A	-0.001 \pm 0.024	-1.258 \pm 0.150	
25000	91	1	36	3/26/2011	317	-0.412 \pm 0.034	-4.215 \pm 0.120	
25274	90	1	18	3/26/2011	89A	-0.098 \pm 0.040	-1.840 \pm 0.075	
25271	90	1	8	3/26/2011	86A	-0.129 \pm 0.008	-2.110 \pm 0.014	
25284	90	1	36	3/26/2011	99A	-0.340 \pm 0.066	-3.759 \pm 0.074	
25270	90	1	4	3/26/2011	85A	-0.175 \pm 0.049	-2.369 \pm 0.060	
25281	90	1	32	3/26/2011	96A	-0.228 \pm 0.014	-2.776 \pm 0.121	
24997	91	1	29	3/26/2011	314	-0.310 \pm 0.037	-2.341 \pm 0.091	
24998	91	1	31	3/26/2011	315	-0.461 \pm 0.012	-3.489 \pm 0.047	
24983	91	1	1	3/26/2011	300	-0.134 \pm 0.015	-2.748 \pm 0.027	
24994	91	1	23	3/26/2011	311	0.111 \pm 0.067	-0.959 \pm 0.166	
24999	91	1	33	3/26/2011	316	-0.188 \pm 0.023	-3.004 \pm 0.039	
24987	91	1	9	3/26/2011	304	0.064 \pm 0.086	-1.274 \pm 0.308	
24985	91	1	5	3/26/2011	302	0.057 \pm 0.138	-1.574 \pm 0.446	
24984	91	1	3	3/26/2011	301	0.041 \pm 0.123	-1.785 \pm 0.293	
24990	91	1	15	3/26/2011	307	-0.118 \pm 0.091	-2.062 \pm 0.409	
24991	91	1	17	3/26/2011	308	-0.078 \pm 0.044	-1.685 \pm 0.110	
24988	91	1	11	3/26/2011	305	-0.101 \pm 0.112	-1.740 \pm 0.238	
24986	91	1	7	3/26/2011	303	-0.112 \pm 0.081	-2.011 \pm 0.259	
24993	91	1	21	3/26/2011	310	0.051 \pm 0.040	-1.230 \pm 0.178	
24996	91	1	27	3/26/2011	313	0.074 \pm 0.040	-0.953 \pm 0.132	
24995	91	1	25	3/26/2011	312	-0.048 \pm 0.050	-1.778 \pm 0.288	
24992	91	1	19	3/26/2011	309	0.001 \pm 0.075	-1.397 \pm 0.198	
24989	91	1	13	3/26/2011	306	-0.060 \pm 0.025	-1.761 \pm 0.034	
25185	15	1	24	2/27/2011	69	-0.012 \pm 0.038	-1.351 \pm 0.054	
25161	18	1	3	3/1/2011	77	-0.191 \pm 0.041	-2.438 \pm 0.054	
25187	15	1	30	2/27/2011	71	0.072 \pm 0.021	-1.043 \pm 0.057	
25189	15	1	34	2/27/2011	73	-0.342 \pm 0.054	-3.676 \pm 0.277	
25182	15	1	16	2/27/2011	66	-0.074 \pm 0.047	-1.796 \pm 0.090	
25179	15	1	4	2/27/2011	63	-0.272 \pm 0.061	-2.713 \pm 0.102	
25167	18	1	19	3/1/2011	83	-0.060 \pm 0.012	-1.534 \pm 0.061	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25176	15	1	1	2/27/2011	60	-0.323 \pm 0.078	-3.145 \pm 0.242	
25191	15	1	36	2/27/2011	75	-0.416 \pm 0.030	-3.674 \pm 0.026	
25184	15	1	20	2/27/2011	68	-0.141 \pm 0.020	-2.151 \pm 0.255	
25178	15	1	3	2/27/2011	62	-0.244 \pm 0.069	-2.763 \pm 0.079	
25186	15	1	28	2/27/2011	70	-0.124 \pm 0.102	-1.921 \pm 0.038	
25180	15	1	8	2/27/2011	64	-0.354 \pm 0.040	-3.510 \pm 0.091	
25181	15	1	12	2/27/2011	65	-0.272 \pm 0.002	-2.782 \pm 0.021	
25190	15	1	35	2/27/2011	74	-0.108 \pm 0.085	-1.654 \pm 0.083	
25177	15	1	2	2/27/2011	61	-0.035 \pm 0.084	-1.608 \pm 0.006	
25183	15	1	18	2/27/2011	67	-0.186 \pm 0.043	-2.201 \pm 0.038	
25199	12	1	18	2/27/2011	51	-0.139 \pm 0.056	-2.252 \pm 0.247	
25193	12	1	2	2/27/2011	45	-0.225 \pm 0.043	-2.890 \pm 0.034	
25197	12	1	12	2/27/2011	49	-0.085 \pm 0.083	-1.801 \pm 0.322	
25196	12	1	8	2/27/2011	48	-0.112 \pm 0.147	-2.064 \pm 0.179	
25194	12	1	3	2/27/2011	46	-0.153 \pm 0.052	-2.517 \pm 0.172	
25198	12	1	16	2/27/2011	50	-0.067 \pm 0.012	-1.723 \pm 0.093	
25195	12	1	4	2/27/2011	47	-0.266 \pm 0.048	-3.274 \pm 0.170	
25192	12	1	1	2/27/2011	44	-0.293 \pm 0.069	-3.319 \pm 0.170	
25201	12	1	24	2/27/2011	53	-0.076 \pm 0.070	-1.516 \pm 0.129	
25200	12	1	20	2/27/2011	52	-0.030 \pm 0.023	-1.502 \pm 0.040	
25405	11	1	34	2/26/2011	34A	-0.263 \pm 0.122	-3.027 \pm 0.193	
25207	12	1	36	2/27/2011	59	-0.265 \pm 0.059	-3.154 \pm 0.113	
25205	12	1	34	2/27/2011	57	-0.313 \pm 0.103	-3.757 \pm 0.301	
25202	12	1	28	2/27/2011	54	-0.081 \pm 0.047	-1.538 \pm 0.213	
25206	12	1	35	2/27/2011	58	-0.275 \pm 0.033	-3.110 \pm 0.153	
25204	12	1	33	2/27/2011	56	-0.218 \pm 0.112	-2.891 \pm 0.213	
25384	11	1	1	2/26/2011	1A	-0.160 \pm 0.095	-3.282 \pm 0.093	
25396	11	1	21	2/26/2011	21A	-0.006 \pm 0.177	-1.491 \pm 0.164	
25399	11	1	27	2/26/2011	27A	-0.374 \pm 0.038	-3.928 \pm 0.105	
25406	11	1	35	2/26/2011	35A	-0.294 \pm 0.012	-3.321 \pm 0.069	
25203	12	1	30	2/27/2011	55	-0.103 \pm 0.024	-1.713 \pm 0.090	
25389	11	1	7	2/26/2011	7A	-0.161 \pm 0.089	-2.436 \pm 0.069	
25394	11	1	17	2/26/2011	17A	-0.071 \pm 0.066	-1.720 \pm 0.169	
25387	11	1	4	2/26/2011	4A	-0.299 \pm 0.065	-3.297 \pm 0.051	
25407	11	1	36	2/26/2011	36A	-0.420 \pm 0.052	-3.944 \pm 0.374	
25404	11	1	33	2/26/2011	33A	-0.323 \pm 0.015	-3.271 \pm 0.164	
25397	11	1	23	2/26/2011	23A	-0.108 \pm 0.070	-1.699 \pm 0.064	
25401	11	1	30	2/26/2011	30A	-0.310 \pm 0.061	-3.315 \pm 0.109	
25403	11	1	32	2/26/2011	32A	-0.269 \pm 0.067	-3.078 \pm 0.067	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
25395	11	1	19	2/26/2011	19A	-0.142 \pm 0.132	-1.769 \pm 0.200	
25392	11	1	13	2/26/2011	13A	-0.076 \pm 0.066	-1.915 \pm 0.014	
25402	11	1	31	2/26/2011	31A	-0.310 \pm 0.060	-3.153 \pm 0.058	
25390	11	1	9	2/26/2011	9A	-0.254 \pm 0.086	-2.794 \pm 0.293	
24975	97	1	15	3/30/2011	322	-0.116 \pm 0.017	-1.709 \pm 0.104	
25251	93	1	5	3/27/2011	116A	-0.175 \pm 0.036	-2.261 \pm 0.093	
25265	93	1	32	3/27/2011	128A	-0.134 \pm 0.025	-2.080 \pm 0.058	
24954	103	1	6	4/3/2011	347	-0.195 \pm 0.083	-2.902 \pm 0.086	
24971	97	1	1	3/30/2011	318	-0.139 \pm 0.083	-2.324 \pm 0.066	
24979	97	1	30	3/30/2011	326	-0.279 \pm 0.037	-2.719 \pm 0.218	
24982	97	1	36	3/30/2011	329	-0.495 \pm 0.052	-4.274 \pm 0.030	
24978	97	1	25	3/30/2011	325	-0.167 \pm 0.052	-1.601 \pm 0.042	
24973	97	1	5	3/30/2011	320	-0.146 \pm 0.030	-2.610 \pm 0.088	
24981	97	1	34	3/30/2011	328	-0.437 \pm 0.019	-4.051 \pm 0.082	
24977	97	1	20	3/30/2011	324	-0.078 \pm 0.073	-1.712 \pm 0.066	
24965	101	1	20	4/1/2011	336	-0.107 \pm 0.035	-2.097 \pm 0.331	
24976	97	1	19	3/30/2011	323	-0.137 \pm 0.061	-1.866 \pm 0.031	
24961	101	1	5	4/1/2011	332	-0.267 \pm 0.066	-2.571 \pm 0.044	
24958	103	1	10	4/3/2011	351	-0.373 \pm 0.064	-3.860 \pm 0.099	
24972	97	1	3	3/30/2011	319	-0.220 \pm 0.072	-2.665 \pm 0.068	
24974	97	1	11	3/30/2011	321	-0.133 \pm 0.049	-2.040 \pm 0.118	
24954	103	1	6	4/3/2011	347	-0.163 \pm 0.031	-2.608 \pm 0.250	
24950	103	1	2	4/3/2011	343	-0.331 \pm 0.071	-2.815 \pm 0.028	
24970	101	1	36	4/1/2011	341	-0.463 \pm 0.103	-4.062 \pm 0.125	
24964	101	1	19	4/1/2011	335	-0.050 \pm 0.065	-1.509 \pm 0.031	
24953	103	1	5	4/3/2011	346	-0.114 \pm 0.166	-1.885 \pm 0.170	
24949	103	1	1	4/3/2011	342	-0.235 \pm 0.048	-2.697 \pm 0.029	
24951	103	1	3	4/3/2011	344	-0.231 \pm 0.025	-3.085 \pm 0.377	
24957	103	1	9	4/3/2011	350	0.012 \pm 0.038	-1.229 \pm 0.146	
24952	103	1	4	4/3/2011	345	-0.068 \pm 0.032	-2.119 \pm 0.022	
24960	101	1	3	4/1/2011	331	-0.210 \pm 0.031	-2.597 \pm 0.088	
24959	101	1	1	4/1/2011	330	-0.257 \pm 0.089	-2.649 \pm 0.132	
24969	101	1	34	4/1/2011	340	-0.322 \pm 0.035	-3.623 \pm 0.075	
24956	103	1	8	4/3/2011	349	-0.102 \pm 0.019	-1.520 \pm 0.122	
24963	101	1	15	4/1/2011	334	-0.126 \pm 0.015	-1.707 \pm 0.073	
24966	101	1	25	4/1/2011	337	-0.096 \pm 0.037	-1.661 \pm 0.506	
24962	101	1	11	4/1/2011	333	-0.175 \pm 0.098	-1.720 \pm 0.054	
24968	101	1	32	4/1/2011	339	-0.226 \pm 0.114	-2.290 \pm 0.146	
24955	103	1	7	4/3/2011	348	-0.033 \pm 0.035	-1.188 \pm 0.110	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O ± err	dD ± err	Comment
24967	101	1	30	4/1/2011	338	0.060 ± 0.116	-0.817 ± 0.213	
24938	107	1	13	4/5/2011	357	-0.041 ± 0.062	-1.120 ± 0.063	
24933	107	1	1	4/5/2011	352	-0.300 ± 0.070	-3.487 ± 0.384	
24934	107	1	3	4/5/2011	353	-0.237 ± 0.096	-2.794 ± 0.101	
24947	107	1	35	4/5/2011	366	-0.377 ± 0.017	-4.004 ± 0.023	
24942	107	1	26	4/5/2011	361	0.054 ± 0.059	-1.218 ± 0.031	
24941	107	1	24	4/5/2011	360	-0.010 ± 0.067	-1.164 ± 0.053	
24944	107	1	30	4/5/2011	363	-0.051 ± 0.143	-1.389 ± 0.109	
24936	107	1	9	4/5/2011	355	-0.260 ± 0.070	-2.915 ± 0.264	
24945	107	1	33	4/5/2011	364	-0.351 ± 0.057	-3.525 ± 0.116	
24943	107	1	28	4/5/2011	362	-0.118 ± 0.037	-1.438 ± 0.107	
24935	107	1	7	4/5/2011	354	-0.193 ± 0.071	-2.293 ± 0.102	
24940	107	1	21	4/5/2011	359	-0.041 ± 0.117	-1.269 ± 0.118	
24946	107	1	34	4/5/2011	365	-0.402 ± 0.027	-3.678 ± 0.108	
24939	107	1	19	4/5/2011	358	-0.149 ± 0.135	-2.179 ± 0.330	
	85	1	1			-0.195 ± 0.055	-2.447 ± 0.034	
	85	1	2			-0.167 ± 0.043	-2.337 ± 0.068	
	85	1	3			-0.105 ± 0.034	-2.127 ± 0.054	
	85	1	4			-0.107 ± 0.071	-2.010 ± 0.084	
	85	1	5			-0.161 ± 0.145	-1.967 ± 0.127	
	85	1	6			-0.279 ± 0.089	-2.696 ± 0.205	
	85	1	7			-0.236 ± 0.066	-1.939 ± 0.031	
	85	1	8			-0.144 ± 0.141	-1.764 ± 0.096	
	85	1	9			-0.166 ± 0.052	-1.681 ± 0.066	
	85	1	10			-0.153 ± 0.073	-1.560 ± 0.062	
	85	1	11			-0.174 ± 0.040	-1.502 ± 0.035	
	85	1	12			-0.139 ± 0.054	-1.510 ± 0.097	
	85	1	13			-0.133 ± 0.092	-1.368 ± 0.077	
	88	1	1			-0.389 ± 0.085	-3.849 ± 0.471	
	88	1	2			-0.174 ± 0.049	-2.570 ± 0.087	
	88	1	3			-0.139 ± 0.079	-2.185 ± 0.105	
	88	1	4			-0.110 ± 0.107	-2.106 ± 0.213	
	88	1	5			-0.076 ± 0.029	-1.827 ± 0.061	
	88	1	6			-0.037 ± 0.056	-1.524 ± 0.110	
	88	1	7			-0.301 ± 0.101	-2.931 ± 0.392	
	88	1	8			-0.155 ± 0.132	-1.861 ± 0.199	
	88	1	9			-0.164 ± 0.127	-1.462 ± 0.309	
	88	1	10			-0.021 ± 0.024	-1.351 ± 0.179	
	88	1	11			-0.021 ± 0.048	-1.181 ± 0.030	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	88	1	12			-0.014 \pm 0.088	-0.974 \pm 0.252	
	88	1	13			-0.249 \pm 0.078	-2.104 \pm 0.273	
	88	1	14			-0.132 \pm 0.019	-1.165 \pm 0.082	
	88	1	15			-0.116 \pm 0.018	-1.633 \pm 0.141	
	88	1	16			-0.297 \pm 0.069	-2.953 \pm 0.134	
	88	1	17			-0.162 \pm 0.061	-3.688 \pm 0.063	
	88	1	18			-0.092 \pm 0.041	-3.362 \pm 0.158	
	88	1	19			-0.406 \pm 0.090	-4.638 \pm 0.421	
	85	1	14			-0.015 \pm 0.071	-1.661 \pm 0.153	
	85	1	15			-0.463 \pm 0.054	-4.052 \pm 0.081	
	85	1	16			-0.401 \pm 0.101	-4.949 \pm 0.168	
	85	1	17			-0.580 \pm 0.176	-5.348 \pm 0.275	
	85	1	18			-0.568 \pm 0.026	-5.232 \pm 0.105	
	85	1	19			-0.595 \pm 0.092	-6.386 \pm 0.419	
	89	1	1			-0.126 \pm 0.057	-2.728 \pm 0.092	
	89	1	2			-0.057 \pm 0.061	-2.507 \pm 0.079	
	89	1	3			-0.014 \pm 0.070	-2.143 \pm 0.049	
	89	1	4			-0.028 \pm 0.026	-1.902 \pm 0.042	
	89	1	5			0.021 \pm 0.175	-1.695 \pm 0.222	
	89	1	6			-0.203 \pm 0.124	-2.193 \pm 0.270	
	89	1	7			-0.167 \pm 0.031	-1.888 \pm 0.114	organic contamination may have altered results
	89	1	11			-0.022 \pm 0.117	-1.458 \pm 0.074	
	89	1	8			0.027 \pm 0.041	-1.353 \pm 0.123	
	89	1	12			0.014 \pm 0.142	-0.930 \pm 0.109	
	89	1	9			-0.135 \pm 0.057	-2.550 \pm 0.334	
	89	1	17			-0.383 \pm 0.062	-3.597 \pm 0.035	
	89	1	15			-0.129 \pm 0.043	-1.489 \pm 0.142	
	89	1	18			-0.396 \pm 0.064	-3.703 \pm 0.181	
	89	1	19			-0.396 \pm 0.047	-3.978 \pm 0.043	
	89	1	14			0.005 \pm 0.072	-1.406 \pm 0.057	
	89	1	13			-0.006 \pm 0.022	-2.079 \pm 0.396	
	89	1	16			-0.221 \pm 0.068	-2.526 \pm 0.161	
	89	1	10			-0.029 \pm 0.014	-1.635 \pm 0.138	
	92	1	16			-0.262 \pm 0.056	-2.661 \pm 0.096	
	92	1	15			-0.016 \pm 0.040	-1.486 \pm 0.116	
	92	1	1			-0.133 \pm 0.069	-2.475 \pm 0.040	
	92	1	10			-0.146 \pm 0.037	-2.484 \pm 0.302	
	92	1	14			-0.059 \pm 0.085	-1.330 \pm 0.076	
	92	1	11			0.011 \pm 0.037	-1.328 \pm 0.077	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	92	1	12			-0.026 \pm 0.052	-1.239 \pm 0.072	
	92	1	18			-0.236 \pm 0.077	-3.182 \pm 0.054	
	92	1	3			-0.075 \pm 0.009	-2.387 \pm 0.014	
	92	1	7			-0.085 \pm 0.035	-1.892 \pm 0.115	
	92	1	6			-0.078 \pm 0.062	-1.898 \pm 0.169	
	92	1	19			-0.357 \pm 0.138	-4.338 \pm 0.452	
	92	1	13			-0.057 \pm 0.032	-1.514 \pm 0.022	
	92	1	9			0.062 \pm 0.076	-1.382 \pm 0.188	
	92	1	2			-0.108 \pm 0.126	-2.554 \pm 0.106	
	92	1	4			-0.145 \pm 0.124	-2.269 \pm 0.071	
	92	1	5			-0.155 \pm 0.086	-2.084 \pm 0.133	
	92	1	17			-0.407 \pm 0.103	-4.438 \pm 0.251	
	92	1	8			-0.060 \pm 0.042	-2.189 \pm 0.297	
	79	1	5			-0.135 \pm 0.163	-2.253 \pm 0.127	
	79	1	9			-0.347 \pm 0.165	-4.280 \pm 0.341	
	79	1	2			-0.246 \pm 0.086	-3.170 \pm 0.174	
	79	1	1			-0.349 \pm 0.029	-3.902 \pm 0.040	
	79	1	4			-0.190 \pm 0.120	-2.651 \pm 0.394	
	79	1	3			-0.164 \pm 0.005	-1.982 \pm 0.143	
	79	1	7			-0.361 \pm 0.162	-3.113 \pm 0.125	
	79	1	11			-0.354 \pm 0.039	-4.534 \pm 0.106	
	79	1	6			-0.181 \pm 0.087	-2.439 \pm 0.238	
	79	1	10			-0.403 \pm 0.033	-4.674 \pm 0.248	
	79	1	8			-0.511 \pm 0.016	-4.882 \pm 0.457	
	79	1	12			-0.360 \pm 0.105	-4.639 \pm 0.263	
	84	1	10			-0.064 \pm 0.051	-1.553 \pm 0.031	
	84	1	5			-0.213 \pm 0.018	-2.169 \pm 0.070	
	84	1	8			-0.089 \pm 0.097	-1.749 \pm 0.237	
	84	1	9			-0.072 \pm 0.145	-1.680 \pm 0.362	
	84	1	11			-0.201 \pm 0.023	-2.684 \pm 0.425	
	84	1	12			-0.045 \pm 0.039	-1.525 \pm 0.154	
	84	1	13			-0.130 \pm 0.102	-1.512 \pm 0.057	
	84	1	14			-0.037 \pm 0.002	-1.699 \pm 0.156	
	84	1	15			-0.289 \pm 0.064	-2.906 \pm 0.018	
	84	1	16			-0.349 \pm 0.012	-3.868 \pm 0.106	
	84	1	17			-0.494 \pm 0.029	-4.573 \pm 0.042	
	84	1	18			-0.461 \pm 0.046	-4.608 \pm 0.054	
	81	1	1			0.057 \pm 0.064	-2.574 \pm 0.258	
	81	1	2			-0.055 \pm 0.031	-2.660 \pm 0.070	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	81	1	3			-0.175 \pm 0.089	-2.490 \pm 0.345	
	81	1	4			-0.087 \pm 0.037	-1.926 \pm 0.051	
	81	1	5			-0.051 \pm 0.075	-1.417 \pm 0.245	
	81	1	6			-0.036 \pm 0.023	-0.757 \pm 0.384	
	81	1	7			-0.052 \pm 0.011	-2.245 \pm 0.198	
	81	1	8			-0.016 \pm 0.057	-1.449 \pm 0.271	
	81	1	9			0.086 \pm 0.060	-1.311 \pm 0.212	
	81	1	10			0.035 \pm 0.051	-1.281 \pm 0.301	
	81	1	11			0.007 \pm 0.030	-1.567 \pm 0.091	
	81	1	12			0.033 \pm 0.085	-1.520 \pm 0.320	
	81	1	13			-0.218 \pm 0.053	-2.482 \pm 0.521	
	81	1	14			-0.294 \pm 0.044	-3.305 \pm 0.156	
	81	1	15			-0.366 \pm 0.019	-3.711 \pm 0.087	
	81	1	16			-0.380 \pm 0.023	-4.204 \pm 0.197	
	81	1	17			-0.279 \pm 0.069	-4.003 \pm 0.149	
	140	1	1			-0.004 \pm 0.023	-1.036 \pm 0.174	
	140	1	2			-0.110 \pm 0.014	-1.951 \pm 0.178	
	140	1	3			-0.062 \pm 0.007	-1.433 \pm 0.124	
	140	1	4			-0.017 \pm 0.037	-1.359 \pm 0.021	
	140	1	5			-0.063 \pm 0.042	-1.532 \pm 0.152	
	140	1	6			-0.105 \pm 0.060	-1.809 \pm 0.128	
	140	1	7			-0.116 \pm 0.030	-2.191 \pm 0.156	
	140	1	8			-0.256 \pm 0.023	-3.352 \pm 0.272	
	140	1	9			-0.363 \pm 0.041	-3.848 \pm 0.128	
	140	1	10			-0.436 \pm 0.012	-4.277 \pm 0.047	
	140	1	11			-0.450 \pm 0.031	-4.704 \pm 0.190	
	140	1	12			-0.426 \pm 0.042	-4.594 \pm 0.149	
	140	1	13			-0.441 \pm 0.046	-4.629 \pm 0.081	
	140	1	14			-0.470 \pm 0.007	-4.537 \pm 0.049	
	95	1	10			-0.014 \pm 0.039	-1.341 \pm 0.102	
	95	1	1			-0.081 \pm 0.024	-2.910 \pm 0.299	
	95	1	2			0.002 \pm 0.077	-2.286 \pm 0.294	
	95	1	3			-0.098 \pm 0.022	-2.398 \pm 0.090	
	95	1	4			-0.139 \pm 0.042	-2.448 \pm 0.112	
	95	1	5			0.002 \pm 0.053	-1.904 \pm 0.089	
	95	1	6			0.053 \pm 0.027	-1.614 \pm 0.094	
	95	1	7			-0.075 \pm 0.045	-2.354 \pm 0.298	
	95	1	8			-0.099 \pm 0.063	-1.952 \pm 0.221	
	95	1	9			0.028 \pm 0.061	-1.541 \pm 0.302	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	95	1	11			0.055 \pm 0.075	-1.349 \pm 0.225	
	95	1	12			0.015 \pm 0.038	-1.376 \pm 0.117	
	95	1	13			-0.006 \pm 0.014	-1.457 \pm 0.035	
	95	1	14			-0.083 \pm 0.017	-1.829 \pm 0.217	
	95	1	16			-0.010 \pm 0.054	-1.279 \pm 0.213	
	95	1	17			-0.014 \pm 0.027	-1.195 \pm 0.149	
	95	1	19			-0.254 \pm 0.018	-3.363 \pm 0.049	
	139	1	12			-0.049 \pm 0.014	-1.889 \pm 0.082	
	139	1	13			-0.085 \pm 0.020	-1.982 \pm 0.062	
	139	1	14			-0.254 \pm 0.021	-3.435 \pm 0.209	
	95	1	15			0.164 \pm 0.006	-1.143 \pm 0.052	
	139	1	16			-0.348 \pm 0.049	-4.121 \pm 0.203	
	139	1	17			-0.472 \pm 0.007	-4.922 \pm 0.055	
	139	1	15			-0.003 \pm 0.058	-3.203 \pm 0.232	
	95	1	18			-0.082 \pm 0.027	-3.046 \pm 0.076	
	139	1	18			-0.569 \pm 0.058	-5.716 \pm 0.131	
	139	1	19			-0.490 \pm 0.071	-4.939 \pm 0.017	
	139	1	20			-0.440 \pm 0.023	-4.521 \pm 0.047	
	139	1	21			-0.488 \pm 0.019	-4.517 \pm 0.124	
	139	1	1			-0.056 \pm 0.015	-1.593 \pm 0.054	
	139	1	2			-0.067 \pm 0.030	-1.462 \pm 0.109	
	139	1	3			-0.014 \pm 0.028	-1.416 \pm 0.053	
	139	1	4			-0.062 \pm 0.031	-1.327 \pm 0.048	
	139	1	5			-0.092 \pm 0.040	-1.961 \pm 0.123	
	139	1	6			-0.007 \pm 0.081	-1.237 \pm 0.075	
	139	1	7			-0.011 \pm 0.029	-1.066 \pm 0.030	
	139	1	8			-0.001 \pm 0.063	-1.012 \pm 0.172	
	139	1	9			0.067 \pm 0.022	-0.890 \pm 0.036	
	139	1	10			0.046 \pm 0.029	-1.038 \pm 0.048	
	139	1	11			-0.077 \pm 0.056	-1.964 \pm 0.273	
	84	1	1			-0.141 \pm 0.025	-2.241 \pm 0.113	
	84	1	2			-0.124 \pm 0.033	-2.099 \pm 0.097	
	84	1	3			-0.094 \pm 0.013	-1.946 \pm 0.032	
	84	1	4			-0.096 \pm 0.070	-1.874 \pm 0.009	
	84	1	6			-0.092 \pm 0.019	-1.742 \pm 0.046	
	84	1	7			-0.134 \pm 0.031	-2.250 \pm 0.256	
	80	1	1			-0.229 \pm 0.036	-2.891 \pm 0.040	
	80	1	2			-0.160 \pm 0.072	-2.550 \pm 0.106	
	80	1	3			-0.126 \pm 0.076	-1.681 \pm 0.127	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	80	1	4			-0.069 \pm 0.060	-1.468 \pm 0.108	
	80	1	5			-0.039 \pm 0.032	-1.297 \pm 0.145	
	80	1	6			-0.119 \pm 0.083	-2.319 \pm 0.133	
	80	1	7			-0.147 \pm 0.045	-2.096 \pm 0.042	
	80	1	8			0.012 \pm 0.076	-2.032 \pm 0.102	
	80	1	9			-0.306 \pm 0.027	-3.002 \pm 0.056	
	80	1	10			-0.482 \pm 0.025	-4.424 \pm 0.034	
	80	1	11			-0.543 \pm 0.030	-4.837 \pm 0.066	
	80	1	12			-0.605 \pm 0.089	-5.453 \pm 0.374	
	94	1	1			-0.287 \pm 0.025	-2.996 \pm 0.033	
	94	1	2			-0.249 \pm 0.035	-2.747 \pm 0.066	
	94	1	3			-0.296 \pm 0.045	-2.847 \pm 0.035	
	94	1	4			-0.222 \pm 0.035	-2.572 \pm 0.087	
	94	1	5			-0.242 \pm 0.034	-2.434 \pm 0.065	
	94	1	6			-0.072 \pm 0.020	-2.229 \pm 0.035	
	94	1	7			0.183 \pm 0.017	-1.600 \pm 0.032	
	94	1	8			-0.063 \pm 0.026	-2.500 \pm 0.508	
	94	1	9			0.016 \pm 0.045	-1.352 \pm 0.146	
	94	1	10			0.067 \pm 0.052	-1.142 \pm 0.130	
	94	1	11			0.091 \pm 0.128	-0.839 \pm 0.184	
	94	1	12			0.061 \pm 0.016	-0.800 \pm 0.009	
	94	1	13			0.111 \pm 0.029	-0.578 \pm 0.037	
	94	1	14			-0.021 \pm 0.038	-1.968 \pm 0.300	
	94	1	15			-0.071 \pm 0.085	-1.363 \pm 0.159	
	94	1	16			0.019 \pm 0.076	-1.264 \pm 0.270	
	94	1	17			-0.076 \pm 0.037	-2.406 \pm 0.017	
	94	1	18			-0.255 \pm 0.087	-3.420 \pm 0.192	
	94	1	19			-0.257 \pm 0.072	-3.290 \pm 0.074	
	63_01	1	1			-0.220 \pm 0.038	-3.194 \pm 0.229	
	63_01	1	2			-0.117 \pm 0.082	-2.265 \pm 0.187	
	63_01	1	3			-0.068 \pm 0.013	-2.005 \pm 0.044	
	63_01	1	4			-0.031 \pm 0.066	-1.850 \pm 0.096	
	63_01	1	5			-0.036 \pm 0.072	-1.965 \pm 0.047	
	63_01	1	6			0.204 \pm 0.022	-1.217 \pm 0.076	
	63_01	1	7			-0.660 \pm 0.048	-3.630 \pm 0.143	
	63_01	1	8			-0.456 \pm 0.037	-2.667 \pm 0.145	
	63_01	1	9			-0.615 \pm 0.080	-2.850 \pm 0.076	
	63_01	1	10			-0.617 \pm 0.077	-2.565 \pm 0.096	
	63_01	1	11			-0.699 \pm 0.043	-2.657 \pm 0.017	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O ± err	dD ± err	Comment
	63_01	1	12			-0.595 ± 0.064	-2.323 ± 0.072	
	63_01	1	13			0.020 ± 0.046	-1.786 ± 0.433	
	63_01	1	14			0.050 ± 0.101	-2.454 ± 0.115	
	63_01	1	15			0.605 ± 0.059	-3.553 ± 0.127	
	63_01	1	16			-0.511 ± 0.048	-5.613 ± 0.064	
	63_01	1	17			-0.092 ± 0.060	-4.687 ± 0.079	
	63_01	1	18			-0.557 ± 0.029	-5.783 ± 0.101	
	63_01	1	19			-0.252 ± 0.022	-4.547 ± 0.023	
	17	1	1			-0.222 ± 0.056	-2.617 ± 0.043	
	7	1	1			-0.189 ± 0.063	-4.029 ± 0.231	
	7	1	2			-0.130 ± 0.031	-3.163 ± 0.081	
	7	1	3			-0.150 ± 0.010	-3.194 ± 0.210	
	7	1	4			0.696 ± 0.039	-1.785 ± 0.055	
	7	1	5			0.133 ± 0.014	-2.443 ± 0.207	organic contamination may have altered results
	7	1	6			0.113 ± 0.044	-2.221 ± 0.167	
	7	1	7			-0.583 ± 0.015	-4.368 ± 0.373	
	7	1	8			-0.502 ± 0.044	-3.183 ± 0.181	
	7	1	9			-0.475 ± 0.017	-3.001 ± 0.079	
	7	1	10			-0.393 ± 0.066	-2.798 ± 0.032	
	7	1	11			-0.437 ± 0.061	-2.994 ± 0.220	
	7	1	12			1.440 ± 0.033	-0.690 ± 0.068	
	7	1	13			-1.193 ± 0.066	-5.505 ± 0.380	
	7	1	14			-1.144 ± 0.031	-4.970 ± 0.021	
	7	1	15			-1.265 ± 0.036	-5.217 ± 0.107	
	7	1	16			-1.148 ± 0.026	-4.750 ± 0.007	
	7	1	17			-1.179 ± 0.008	-4.571 ± 0.071	
	7	1	18			-0.872 ± 0.061	-4.160 ± 0.061	
	7	1	19			-0.183 ± 0.035	-3.874 ± 0.387	
	14	1	2			-0.273 ± 0.031	-3.173 ± 0.112	
	14	1	3			-0.237 ± 0.026	-2.716 ± 0.061	
	14	1	4			-0.189 ± 0.017	-2.661 ± 0.026	
	14	1	5			-0.175 ± 0.058	-2.262 ± 0.173	
	14	1	6			-0.135 ± 0.044	-2.004 ± 0.109	
	14	1	7			-0.190 ± 0.017	-2.893 ± 0.264	
	14	1	8			-0.117 ± 0.007	-1.880 ± 0.020	
	14	1	9			-0.136 ± 0.019	-1.845 ± 0.021	
	14	1	10			-0.087 ± 0.051	-1.554 ± 0.099	
	14	1	11			0.207 ± 0.025	-0.849 ± 0.080	
	14	1	12			-0.055 ± 0.031	-1.461 ± 0.091	

Data Report Stable Isotope Analysis

S4P

Identifier 1	Station	Cast	Niskin	Sampling Date	AddID	d18O \pm err	dD \pm err	Comment
	14	1	13			-0.093 \pm 0.023	-1.730 \pm 0.062	
	14	1	14			-0.011 \pm 0.020	-1.604 \pm 0.108	

Data Report Stable Isotope Analysis

S4P

