

Water Delta 18-O analysis: CO2 - H2O equilibration method

Date	18.08.2011						
Analyst	ADM						
Equilibration vessel set	A1A						
Sample volume/mL	2.4						
P(CO2)/mb	880	d18-O CO2 (VSMOW)	9.510				
beta	0.005	Equilibration T/ deg C	21				
Internal Standards							
Standard	d 18-O H2O	Run #	Port	d 18-O CO2	alpha standards are averages from each bank		
VSMOW	0.000	63173	A10	41.529	1.041696		
VSMOW	0.000	63174	A11	41.636	1.041803		
VSMOW	0.000	63175	A12	41.615	1.041782	1.041760	0.000057
VSMOW	0.000	63173	A10	41.529	1.041696		
VSMOW	0.000	63174	A11	41.636	1.041803		
VSMOW	0.000	63175	A12	41.615	1.041782	1.041760	0.000057
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VSMOW	0.000	63173	A10	41.529	1.041696		
VSMOW	0.000	63174	A11	41.636	1.041803		
VSMOW	0.000	63175	A12	41.615	1.041782	1.041760	0.000057
SAMPLES							
Sample	Port	Equilib. #	MS #	d 18-O (CO2)		d 18-O (H2O)	
				VPDB	VSMOW	VSMOW	VSMOW-SLAP
NTW	A1	63164	63164	2.985	33.938	-7.387	-7.435
NTW	A2	63165	63165	3.138	34.095	-7.235	-7.282
NTW	A3	63166	63166	3.215	34.174	-7.159	-7.206
NTW	A4	63167	63167	3.042	33.996	-7.331	-7.379
USGS67400	A5	63168	63168	8.382	39.500	-2.020	-2.033
USGS67400	A6	63169	63169	8.455	39.575	-1.947	-1.960
USGS67400	A7	63170	63170	8.554	39.678	-1.848	-1.860
USGS67400	A8	63171	63171	8.045	39.153	-2.355	-2.370
VSMOW	A9	63172	63172	10.26	41.436	-0.152	-0.153
VSMOW	A10	63173	63173	10.35	41.529	-0.062	-0.062
VSMOW	A11	63174	63174	10.45	41.636	0.041	0.042
VSMOW	A12	63175	63175	10.43	41.615	0.021	0.021
NTW	B1	63176	63176	3.212	34.171	-7.162	-7.209
NTW	B2	63177	63177	n/r			
NTW	B3	63178	63178	n/r			
NTW	B4	63179	63179	n/r			
NTW	B5	63180	63180	n/r			
NTW	B6	63181	63181	n/r			
JC-034263	B7	63182	63182	18.88	50.327	8.427	8.482
JC-034263	B8	63183	63183	19.11	50.562	8.654	8.710
JC-033895	B9	63184	63184	1.051	31.944	-9.311	-9.372
JC-033895	B10	63185	63185	0.2954	31.164	-10.063	-10.129
NTW	B11	63186	63186	3.179	34.137	-7.194	-7.241
NTW	B12	63187	63187	3.244	34.204	-7.130	-7.176
IAEA-1	C1	63188	63188	10.90	42.095	0.484	0.487
IAEA-1	C2	63189	63189	10.9	42.146	0.533	0.536
IAEA-1	C3	63190	63190	10.74	41.933	0.328	0.330
IAEA-1	C4	63191	63191	10.68	41.868	0.265	0.267
IAEA-2	C5	63192	63192	5.18	36.198	-5.206	-5.240
IAEA-2	C6	63193	63193	5.213	36.233	-5.172	-5.206
IAEA-2	C7	63194	63194	5.161	36.180	-5.223	-5.257
IAEA-2	C8	63195	63195	5.054	36.070	-5.329	-5.364
IAEA-3	C9	63196	63196	0.1498	31.014	-10.208	-10.274
IAEA-3	C10	63197	63197	0.4248	31.298	-9.934	-9.999
IAEA-3	C11	63198	63198	0.3480	31.219	-10.011	-10.076
IAEA-3	C12	63199	63199	0.4472	31.321	-9.912	-9.977
IAEA-4	D1	63200	63200	-4.801	25.911	-15.132	-15.231
IAEA-4	D2	63201	63201	-4.966	25.741	-15.296	-15.396
IAEA-4	D3	63202	63202	-4.881	25.828	-15.212	-15.311
IAEA-4	D4	63203	63203	-4.886	25.823	-15.217	-15.317
GISP	D5	63204	63204	-14.17	16.248	-24.456	-24.616
GISP	D6	63205	63205	-14.29	16.124	-24.575	-24.736
GISP	D7	63206	63206	-14.21	16.216	-24.487	-24.646
GISP	D8	63207	63207	-14.36	16.061	-24.636	-24.797
USGS64444	D9	63208	63208	-40.3	-10.636	-50.397	-50.726
USGS64444	D10	63209	63209	-40.61	-10.999	-50.747	-51.078
USGS64444	D11	63210	63210	-40.73	-11.124	-50.868	-51.200
USGS64444	D12	63211	63211	-40.7	-11.064	-50.810	-51.142