

IODP *Proceedings*, Volume 331

Site C0013, Table T6. Composition of interstitial pore water, Site C0013.

Core, section, interval (cm)	Depth (mbsf)	Volume (mL)	Refractive index	pH	Alkalinity (mM)	Cl (mM)	Phosphate (μM)	NH ₄ (mM)	Si (mM)*	Br (mM)	SO ₄ (mM)	Na (mM)	Na _{charge}	Difference (%)	Na/Cl	Na/Cl _{charge}	K (mM)	Mg (mM)	Ca (mM)	Zn (μM)	Rb (μM)	Mo (nM)	Cs (nM)	U (nM)	Boron (μM)	Ba (μM)	Fe (μM)	Li (μM)	Mn (μM)	Si (μM)†	Sr (μM)	
331-C0013B-																																
1T-1, 50-60	0.50	63.5	1.33952	6.27	1.18	558.3	1.5	0.02	0.69	0.850	28.2	417.2	493.3	15.43	0.747	0.884	8.5	47.8	9.6	0.19	1.24	247.3	4.0	2.6	382	1.19	5.1	48.4	7.4	0.64	88.6	
1T-1, 108-118	1.08	31.5	1.34046	6.67	5.37	560.9	1.4	0.04	0.63	0.903	70.3	484.2	490.8	1.34	0.863	0.875	8.3	69.2	35.2	1.39	0.91	990.2	6.9	46.3	257	1.91	0.7	41.3	34.4	0.58	158.1	
1T-CC, 12-20	1.30	13.0	1.34107	6.77	4.74	559.1	1.0	0.13	0.60	0.877	88.7	509.8	495.4	2.91	0.912	0.886	9.5	85.2	33.3	8.98	1.69	2097.8	17.6	38.7	175	1.16	0.7	45.9	51.5	0.55	148.9	
331-C0013D-																																
1H-1, 0-9.5	3.00	36.5	1.33922	7.58	3.96	553.6	1.3	0.03	0.13	0.825	28.7	447.8	479.8	6.65	0.809	0.867	10.1	51.8	11.2	23.11	1.50	1395.5	9.1	2464.7	238	0.74	0.5	43.5	10.2	0.12	76.9	
1H-1, 19-29	3.19	36.0	1.33948	7.27	2.67	553.2	1.0	0.02	0.27	0.853	29.1	470.3	472.5	0.47	0.850	0.854	9.8	55.4	10.9	0.18	0.93	313.2	2.4	46.6	282	1.15	0.7	40.8	2.7	0.26	87.5	
1H-1, 57-67	3.57	38.0	1.33948	7.25	3.31	555.7	1.3	0.02	0.27	0.851	28.7	468.5	475.4	1.46	0.843	0.856	8.6	55.8	10.9	0.13	0.58	312.7	1.3	11.2	291	1.00	3.4	40.8	3.5	0.25	87.2	
1H-2, 41-53	4.19	34.0	1.33978	6.76	6.29	558.5	2.8	0.02	0.34	0.858	40.0	470.5	480.5	2.09	0.842	0.860	7.0	61.7	17.4	4.61	0.49	387.7	0.9	9.7	321	1.13	0.7	32.7	2.4	0.31	111.1	
1H-2, 68-80	4.46	34.0	1.34016	7.00	9.20	555.8	1.5	0.02	0.31	0.845	54.4	476.5	480.3	0.79	0.857	0.864	6.9	67.5	26.2	0.30	0.51	293.9	1.5	22.7	323	1.81	2.6	29.4	7.0	0.29	154.2	
1H-3, 0-10	4.78	26.5	1.34005	6.78	11.01	559.6	3.3	0.02	0.39	0.902	46.1	486.5	473.8	2.69	0.869	0.847	6.3	73.1	18.7	1.54	0.44	690.6	2.1	27.7	307	1.50	0.7	37.1	6.8	0.36	124.1	
1H-3, 25-35	5.03	27.0	1.34030	7.02	11.77	561.2	—	0.02	0.35	0.863	56.1	483.2	481.6	0.33	0.861	0.858	6.3	75.1	24.0	1.69	0.43	936.8	2.3	45.5	306	1.77	0.6	33.5	7.2	0.33	155.1	
1H-3, 107.5-117.5	5.86	28.0	1.34039	6.97	14.70	573.1	2.0	0.02	0.43	0.907	53.3	503.1	484.9	3.75	0.878	0.846	6.5	81.6	20.3	1.40	0.47	181.5	1.6	61.2	311	1.19	0.7	34.7	8.0	0.40	141.0	
1H-3, 132.5-142.5	6.11	16.0	1.34022	6.97	8.40	585.3	1.4	0.02	0.82	0.919	42.9	502.4	488.9	2.77	0.858	0.835	6.5	78.5	14.0	6.84	0.48	209.8	1.4	47.2	318	1.45	0.8	46.4	13.3	0.77	112.0	
1H-4, 60-70	6.81	26.0	1.34005	6.62	12.84	558.0	1.5	0.04	1.23	0.865	44.4	480.5	476.0	0.94	0.861	0.853	9.1	66.5	21.2	1.03	0.88	70.3	1.9	3.8	308	1.33	11.8	42.5	6.2	1.14	120.4	
1H-5, 0-10	7.62	20.0	1.33992	7.18	14.72	551.4	1.6	0.19	0.89	0.875	38.7	476.3	460.4	3.45	0.864	0.835	12.6	72.2	13.5	1.08	4.70	369.1	16.4	5.5	259	1.34	0.6	65.2	18.1	0.82	82.0	
331-C0013E-																																
1H-2, 15-24	0.31	11.0	1.33889	7.10	9.08	472.5	3.7	0.86	0.96	0.724	34.9	400.9	403.1	0.56	0.848	0.853	9.1	43.1	26.8	18.97	2.77	1121.8	29.8	143.3	317	0.91	0.7	35.0	23.6	0.90	116.9	
1H-2, 83-93	0.99	0.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1H-4, 30-40	2.31	0.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1H-5, 76-86	4.15	27.0	1.33873	6.80	4.83	504.5	1.8	0.83	2.17	0.747	13.4	416.4	407.6	2.16	0.825	0.808	28.1	40.2	11.6	2.96	7.60	350.2	21.5	0.3	588	1.40	8.1	762.6	148.0	2.17	50.9	
1H-6, 62-72	5.33	16.0	1.33810	7.67	12.46	367.9	3.1	2.22	1.23	0.609	40.8	312.3	289.5	7.86	0.849	0.787	42.8	22.6	42.6	1.61	69.22	1182.1	1611.1	9.8	704	3.27	0.5	845.7	8.9	1.16	163.2	
5H-1, 88-96	16.88	28.0	1.34007	6.98	22.20	622.5	3.9	1.46	3.93	1.070	12.9	478.1	478.2	0.01	0.768	0.768	81.1	7.3	48.4	0.12	124.78	40.0	1642.3	5.9	1703	4.61	1.4	1420.2	298.5	3.13	117.8	
7H-2, 87.5-99.5	27.22	0.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
331-C0013F-																																
1H-2, 15-25	0.33	35.0	1.33944	7.03	29.91	552	4.5	0.13	0.28	0.901	14.5	472.8	473.4	0.13	0.857	0.858	10.0	53.0	11.0	0.10	1.21	103.1	6.8	82.2	385	1.41	0.6	44.0	12.7	0.26	83.2	
1H-3, 58-68	1.77	32.0	1.33956	7.32	7.63	551	0.7	0.10	0.67	0.914	30.8	478.9	467.2	2.51	0.869	0.848	10.2	58.1	13.8	0.64	1.33	261.6	9.5	20.9	223	1.62	0.7	41.9	3.5	0.62	89.1	
1H-5, 38-52	3.54	17.0	1.33966	6.30	9.35	570	2.5	0.14	2.95	0.891	26.5	499.0	483.1	3.31	0.876	0.848	10.3	60.0	9.7	0.12	17.53	28.8	76.9	1.6	335	1.03	9.2	56.0	15.9	2.75	66.4	
1H-8, 49-61	6.66	26.0	1.33870	6.66	7.22	515	2.8	2.17	5.65	0.794	7.9	348.5	428.9	18.74	0.677	0.833	32.0	18.6	20.3	0.13	1.45	26.9	8.5	2.1	795	3.00	1.2	807.4	665.8	5.28	73.1	
331-C0013G-																																
1H-2, 76-88	8.73	30.0	1.33964	6.95	7.29	499	1.4	1.07	2.23	0.825	55.3	443.9	412.2	7.70	0.889	0.825	18.7	53.6	40.0	1.09	23.59	890.1	639.1	10.8	490	2.25	38.0	354.5	92.4	2.06	139.0	
Bottom water					2.04	543				0.836	28.08	466			0.859		10.15	52.5	10.23						410			26.2			90.6	

* = value was determined colorimetrically aboard ship, † = value was determined postcruise via ICP-OES. Volumes are crude approximates only. Na_{charge} is the Na value that we calculate from charge balance based on Cl, Br, sulfate, alkalinity, Mg, K, and Ca balance. BD = below detection limit, — = no data. Bottom water values were calculated based on the chlorinity of samples from the uppermost ~1 mbsf from Sites C0014, C0015, and C0017 (n = 4) and assuming that the elements are in constant proportion to chloride; we also make the assumption that chlorinity and chloride are the same.