HOKKAIDO UNIVERSITY

Title	Impact of Climate Change on Hunter-Fisher-Gatherer Cultures in Northern Japan Over the Past 4,400 Years
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Core	Top depth (cm)	Bottom depth (cm)	Center depth (cm)	1σ confidence interval			Year CE	Sphagnum (Sp)		Shrub stem (SS)		Shrub branch (SB)		Shrub root (SR)		Grass leaf (GL)		Grass roots (GR)		SS - Sp		SB - Sp		SR - Sp		GL - Sp		GR - Sp	
				Age (y BP)	from	to		δ18O (‰)	σ	δ18O (‰)	σ	δ18O (‰)	σ	δ18O (‰)	σ	δ18O (‰)	σ	δ18O (‰)	σ	Δδ18O (‰)	σ	Δδ18O (‰)	σ	Δδ18O (‰)	σ	Δδ18O (‰)	σ	Δδ18O (‰)	σ
MHWL-3	0	15	8	living			2013	21.71	0.49			24.23	0.67									2.51	0.83						
MHWL-3	20	22	21	135	55	172	1815	23.45	0.15							21.32	0.49									-2.13	0.49		
MHWL-3	30	32	31	229	142	266	1721	24.12	0.09	24.83	0.09									0.70	0.13								
MHWL-3	40	42	41	324	242	359	1626	23.45	0.06							21.63	0.58									-1.81	0.58		
MHWL-3	50	52	51	417	305	427	1533	24.47	0.13	25.98	0.12					25.57	0.04	25.39	0.25	1.51	0.18					1.10	0.13	0.93	0.25
MHWL-3	60	62	61	503	410	535	1447	24.42	0.68							23.86	0.72									-0.56	0.72		
MHWL-3	70	72	71	590	486	630	1360	22.33	0.37							24.59	0.01									2.27	0.01		
MHWL-3	80	82	81	676	573	729	1274	23.67	0.13							23.78	0.46									0.10	0.46		
MHWL-3	90	92	91	762	668	826	1188	21.28	0.25							23.35	0.29									2.08	0.29		
MHWL-3	100	102	101	849	763	916	1101							23.32	0.36	24.77	0.27	25.31	0.13										
MHWL-3	110	112	111	935	865	1002	1015	21.00	0.24							22.69	0.14									1.69	0.14		
MHWL-3	120	122	121	1021	970	1080	929	19.25	0.09							23.41	0.13									4.16	0.13		
MHWL-3	130	132	131	1108	1070	1127	842	18.89	0.05							23.42	0.13									4.53	0.13		
MHWL-3	140	142	141	1193	1127	1215	757	20.89	0.00					22.64	0.14	23.21	0.21							1.75	0.14	2.33	0.21		
MHWL-3	150	152	151	1278	1194	1293	672	22.16	0.04							24.32	0.04									2.16	0.04		
MHWL-3	160	162	161	1363	1266	1366	587	19.97	0.16							23.43	0.06									3.46	0.06		
MHWL-3	170	172	171	1448	1339	1427	502	20.05	0.37							22.85	0.00									2.80	0.00		
MHWL-3	180	182	181	1529	1414	1485	421	21.37	0.56	22.82	0.01					25.26	0.09	24.90	0.00	1.44	0.56					3.88	0.09	3.53	0.00
MHWL-3	190	192	191	1571	1453	1538	379																						
MHWL-3	200	202	201	1613	1504	1600	337	22.07	0.22							23.38	0.15									1.31	0.15		
MHWL-3	220	222	221	1696	1606	1712	254	22.31	0.09							25.34	0.72									3.04	0.72		
MHWL-3	230	232	231	1738	1661	1764	212	22.62	0.09							23.56	0.00									0.94	0.00		
MHWL-3	240	242	241	1780	1716	1816	170	19.88	0.71	23.93	0.63					24.67	0.06			4.05	0.95					4.79	0.63		
MHWL-3	250	252	251	1821	1771	1866	129	18.61	0.12							23.07	0.52									4.46	0.52		
MHWL-3	260	262	261	1863	1826	1909	87	21.69	0.08																				
MHWL-3	270	272	271	1907	1885	1977	43	20.54	0.24							22.90	0.14									2.36	0.14		
MHWL-3	280	282	281	1976	1934	2032	-26	20.88	0.21							23.83	0.04									2.95	0.04		
MHWL-3	290	292	291	2044	1991	2111	-94	19.95	0.07	23.13	0.08									3.17	0.11								
MHWL-3	300	302	301	2112	2052	2187	-162	19.84	0.02	20.77	0.61			23.20	0.26	23.26	0.21			0.94	0.61			3.37	0.26	3.43	0.64		
MHWL-3	310	312	311	2180	2116	2261	-230	21.00	0.03	24.31	0.14									3.31	0.14								
MHWL-3	320	322	321	2249	2175	2328	-299									23.34	0.02												
MHWL-3	330	332	331	2317	2239	2394	-367	23.34	0.23	24.07	0.14									0.73	0.27								
MHWL-3	340	342	341	2385	2306	2452	-435	24.38	0.22							25.00	0.37									0.62	0.37		
MHWL-3	350	352	351	2453	2373	2494	-503	21.37	0.25	23.82	0.05					26.10	0.45			2.44	0.26					4.73	0.45		
MHWL-3	360	362	361	2522			-572	19.71	0.35	24.50	0.17									4.79	0.39								
MHWL-3	370	372	371	2590			-640	21.16	0.08							23.24	0.56									2.08	0.56		
MHWL-3	390	392	391	2726			-776	23.06	0.10							25.02	0.83									1.95	0.83		