

Chemoautotrophic food availability influences copepod assemblage composition at deep hydrothermal vent sites within sea knoll calderas in the northwestern Pacific

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Table S1. Taxonomic identities of adult specimens, adult ratio, no. of extracted copepodides from detritus and total volume of detritus.

Sample ID	Siphonostomatoida					Sum	Harpacticoida	Cyclopoida	Calanoida	Unidentified	Total identified adults	Investigated copepodides (adults+ juveniles)	Ratio adults ^b	Extracted copepodides	Fraction size of subsample ^c	Total volume of detritus (ml)
	<i>Stygiopontius</i>	<i>Chasmatopontius</i>	<i>Aphotopontius</i>	Others ^a												
Bayonnaise Knoll																
B1a	14	0	0	0	14	36	0	0	0	50	110	0.45	235	1	11.5	
B2a	13	1	0	0	14	36	0	0	0	50	68	0.74	1131	1/4	17.5	
B3a	10	2	0	0	12	38	0	0	0	50	76	0.66	449	1/8	40	
B4a	1	0	0	0	1	45	1	1	1	49	170	0.29	170	1	55	
B4b	0	0	0	0	0	47	3	0	0	50	124	0.40	349	1	35	
B5a	4	0	0	0	4	46	0	0	0	50	104	0.48	235	1/4	35	
B6a	0	0	0	0	0	49	1	0	0	50	81	0.62	270	1/8	7.5	
B6b	0	0	0	0	0	50	0	0	0	50	95	0.53	277	1/8	37.5	
B7a	0	0	0	0	0	43	7	0	0	50	79	0.63	194	1/4	32.5	
B8a	13	0	0	0	13	36	1	0	0	50	85	0.59	182	1/4	12.5	
B8b	1	0	0	0	1	49	0	0	0	50	97	0.52	206	1/2	35	
B9a	0	0	0	0	0	50	0	0	0	50	86	0.58	293	1/4	27.5	
B10a	0	0	0	0	0	45	5	0	0	50	88	0.57	265	1	17.5	
Myojin Knoll																
K1a	1	0	0	0	1	2	3	2	0	8	93	0.09	93	1	4	
K1b	0	0	0	2	2	48	0	0	0	50	60	0.83	838	1/4	20	
K2a	1	0	0	0	1	15	7	2	0	25	76	0.33	76	1	4	
K2b	0	0	0	0	0	10	3	0	0	13	43	0.30	43	1	1	
K2c	1	0	0	0	1	4	3	2	3	13	39	0.33	39	1	32	
K2d	0	0	0	0	0	11	7	4	0	22	53	0.42	53	1	45	
K3a	0	12	0	0	12	11	4	1	0	28	58	0.48	58	1	5	
K4a	0	0	0	0	0	34	14	2	0	50	79	0.63	128	1	10	
K5a	2	0	2	0	4	4	6	3	1	18	48	0.38	48	1	10	
Myojin-sho Caldera																
S1a	37	6	0	0	43	7	0	0	0	50	149	0.34	604	1/2	10	
S2a	44	2	1	0	47	1	2	0	0	50	92	0.54	194	1	5	
S2b	49	0	0	0	49	1	0	0	0	50	144	0.35	1041	1/2	5	
S2c	47	2	0	0	49	0	0	1	0	50	95	0.53	795	1	2.5	
S2d	48	2	0	0	50	0	0	0	0	50	81	0.62	562	1	2.5	
S2e	45	1	0	0	46	4	0	0	0	50	146	0.34	691	1	52.5	
S3a	13	0	0	0	13	30	7	0	0	50	137	0.36	251	1	17.5	
S3b	2	0	0	3	5	44	1	0	0	50	101	0.50	369	1/4	15	
S4a	23	0	0	0	23	22	5	0	0	50	123	0.41	228	1/2	15	
S4b	3	0	0	0	3	30	17	0	0	50	112	0.45	352	1	30	
S5a	49	0	0	0	49	1	0	0	0	50	77	0.65	216	1/4	33.5	
S5b	3	0	0	0	3	40	7	0	0	50	65	0.77	324	1/4	17.5	
Sum	424	28	3	5	460	889	104	18	5	1476	3134		11259			

^a Siphonostomatoida unidentified at family level; ^b Ratio of adults in investigated copepodites; ^c fraction size of subsample for extracting copepodites

Table S2. Estimated densities of each taxon (ind. mL⁻¹), based on relative abundance (%) of each taxon per total identified adults, adult ratio, number of extracted copepodids, fraction size of subsample for extracted copepodids, and volume of detritus in Table S1

Sample ID	Siphonostomatoida				Sum	Harpacticoida	Cyclopoida	Calanoida	Unidentified	Total Adult
	<i>Stygiopontius</i>	<i>Chasmatopontius</i>	<i>Aphotopontius</i>	Others						
Bayonnaise Knoll										
B1a	2.6	0	0	0	2.6	6.7	0	0	0	9.3
B2a	49.4	3.8	0	0	53.2	136.9	0	0	0	190.1
B3a	11.8	2.4	0	0	14.2	44.9	0	0	0	59.1
B4a	0.02	0	0	0	0.0	0.8	0.02	0.02	0.02	0.9
B4b	0	0	0	0	0.0	3.8	0.2	0	0	4.0
B5a	1.0	0	0	0	1.0	11.9	0	0	0	12.9
B6a	0	0	0	0	0.0	174.2	3.6	0	0	177.8
B6b	0	0	0	0	0.0	31.1	0	0	0	31.1
B7a	0	0	0	0	0.0	13.0	2.1	0	0	15.1
B8a	8.9	0	0	0	8.9	24.7	0.7	0	0	34.3
B8b	0.1	0	0	0	0.1	5.9	0	0	0	6.1
B9a	0	0	0	0	0.0	24.8	0	0	0	24.8
B10a	0	0	0	0	0.0	7.7	0.9	0	0	8.6
Myojin Knoll										
K1a	0.3	0	0	0	0.3	0.5	0.8	0.5	0	2.0
K1b	0	0	0	5.6	5.6	134.1	0	0	0	139.7
K2a	0.3	0	0	0	0.3	3.8	1.8	0.5	0	6.3
K2b	0	0	0	0	0.0	10.0	3.0	0	0	13.0
K2c	0.03	0	0	0	0.0	0.1	0.09	0.1	0.1	0.4
K2d	0	0	0	0	0.0	0.2	0.2	0.1	0	0.5
K3a	0	2.4	0	0	2.4	2.2	0.8	0.2	0	5.6
K4a	0	0	0	0	0.0	5.5	2.3	0.3	0	8.1
K5a	0.2	0	0.2	0	0.4	0.4	0.6	0.3	0.1	1.8
Myojin-sho Caldera										
S1a	30.0	4.9	0	0	34.9	5.7	0	0	0	40.5
S2a	18.6	0.8	0.4	0	19.8	0.4	0.8	0	0	21.1
S2b	141.7	0	0	0	141.7	2.9	0	0	0	144.6
S2c	157.3	6.7	0	0	164.0	0	0	3.3	0	167.4
S2d	133.2	5.6	0	0	138.8	0	0	0	0	138.8
S2e	4.1	0.1	0	0	4.1	0.4	0	0	0	4.5
S3a	1.4	0	0	0	1.4	3.1	0.7	0	0	5.2
S3b	1.9	0	0	2.9	4.9	42.9	1.0	0	0	48.7
S4a	5.7	0	0	0	5.7	5.4	1.2	0	0	12.4
S4b	0.3	0	0	0	0.3	3.1	1.8	0	0	5.2
S5a	16.4	0	0	0	16.4	0.3	0	0	0	16.7
S5b	3.4	0	0	0	3.4	45.6	8.0	0	0	57.0
Ave	17.3	0.8	0.02	0.3	18.4	22.1	0.9	0.2	0.01	41.6