

Table VII-3. The average composition of marine algae, phytoplankton, and zooplankton. All are in unit of ppm (dry weight) unless indicated otherwise.

	Average algae (1)	Brown algae (2)	Phyto- (3)	Zoo- (3)		Average algae (1)	Brown algae (2)	Phyto- (3)	Zoo- (3)
Ag-47	0.26	0.28	0.6	0.1	N-7 %		1.8 b	5.7 d	8.8 b
Al-13	700	62	440	50	Na-11 %	0.96	3.3		
As-33	24	30	21 b		Nb-41				
Au-79		0.008 f			Nd-60				
B-5	100	120	33 b	64 b	Ni-28	2.7	3	8	3
Ba-56	30	31	20	21	Os-76				
Be-4	(0.03)	0.003 b			P-15	1100	2800	8000 d	4900 y
Bi-83					Pb-82	9.5	8.4	7	3
Br-35	180	740			Pd-46				
C-6 %	32 b	35	34 d	42 b	Pr-59				
Ca-20 %	2	1.2	0.53	0.84	Pt-78			0.0002 h	
Cd-48		0.4	1.5	3.5	Ra-88		E-7		
Ce-58	1.2				Rb-37	6.9	7.4		
Cl-17	3700	4700			Re-75		0.013 f		
Co-27	0.74	0.7	0.38 b	1 b	Rh-45				
Cr-24	1.7	1.3	4	1 b	Ru-44				
Cs-55	0.093	0.067	0.11 b	0.032 b	S-16 %	1.5	1.2	0.42 b	
Cu-29	14	11	7	13	Sb-51	0.36	0.16 b		
Dy-66					Sc-21	0.32	0.07 b		
Er-68					Se-34	0.14	0.06 b		
Eu-63	0.018				Si-14 %	0.48	0.15	4.8	0.37 y
F-9	6	4.5			Sm-62	0.14			
Fe-26	540	690	1500	150	Sn-50	1.1	1.1	3.5 b	2.2 b
Ga-31	0.14				Sr-38	1200	1400	120	140
Gd-64					Ta-73	0.038			
Ge-32	0.01 e				Tb-65	0.027			
Hf-72	0.18				Te-52				
Hg-80	0.11	0.03	0.16	0.11	Th-90	0.18	0.1 b	0.42 b	0.32 b
Ho-67					Ti-22	35	12	27	
I-53	430	1500	270 b		Tl-81			0.2 fl	0.2 fl
In-49					Tm-69				
Ir-77			20E-6 w		U-92	1.1	0.8 b	0.7 b	0.5 b
K-19 %	1.3	5.2?	1.3	1.2	V-23	3.7	2	4 b	13 b
La-57	0.76				W-74	0.035 f			
Li-3	6	5.4			Y-39				
Lu-71	0.02				Yb-70	0.088			
Mg12 %	1.1	0.94 b	1.6	0.83	Zn-30	150	150	120	91
Mn-25	100	53	13	4	Zr-40	0.7 e			
Mo-42	0.34	0.45	1 b	3 b					

Data sources: (1) Yamamoto (1983) and Yamamoto et al. (1985); (2) Bowen(1966); (3) Martin & Knauer (1973) Group II phytoplankton and Monterey Bay zooplankton; b: Bowen (1979); d: Duarte (1992); e: Eisler (1981); f: Fukai and Meinke (1962); fl: Flegal et al. (1986; h: Hodge et al. (1986); w: Wells et al. (1988); y: Yamamoto (1983).