

Table VII-1. The average concentrations of elements in the surface and deep waters of the Atlantic and Pacific oceans (in nM) and in the whole ocean (in unit of 10^{-9} g/l).

	type	Atlantic		Pacific		Whole ocean
		Surface (nM)	Deep (nM)	Surface (nM)	Deep (nM)	Ave.(10^{-9} g/l)
Ag-47	n	0.0007	0.007	0.001	0.023	2.5
Al-13	s	37	20	5	0.5	300
As-33	n	20	21	20	24	1700
III	s			0.3	0.07	5.2
Au-79	pc	0.053 E-3		0.055 E-3		0.03
B-5	c	0.42 E6				4.5 E6
Ba-56	n	35	70	35	150	15000
Be-4	n	0.010	0.020	0.004	0.025	0.21
Bi-83	s	0.25 E-3		0.2 E-3	0.02 E-3	0.004
Br-35	c	0.84 E6				67 E6
C-6	n	2 E6	2.2 E6	2 E6	2.4 E6	28 E6
Ca-20	c	10 E6	11 E6	10 E6	11.3 E6	450 E6
Cd-48	n	0.010	0.35	0.010	1.0	76
Ce-58	s	0.066	0.019	0.011	0.004	1.6
Cl-17	c	530 E6				18.8 E9
Co-27	s			0.12	0.02	1.2
Cr-24	n	3.5	4.5	3	5	250
III	s			0.2	0.05	2.6
Cs-55	c	2.3				310
Cu-29	n	1.3	2	1.3	4.5	210
Dy-66	n	0.005	0.0061			1.5
Er-68	n	0.0036	0.0053			1.3
Eu-63	n	0.0006	0.0010	0.0007	0.0018	0.21
F-9	c	0.068 E6				1.3 E6
Fe-26	m	2	7	0.2	2	250
Ga-31	m	0.0450	0.0300	0.0025	0.0150	1.7
Gd-64	n	0.0034	0.0061	0.0040	0.0100	1.3
Ge-32	n	0.001	0.020	0.005	0.100	4.3
Hf-72	s		0.020	0.022	0.019	3.4
Hg-80	m	0.0025	0.0025	0.0017	0.0017	0.42
Ho-67	n	0.0015	0.0018	0.0010	0.0036	0.45
I-53	n	410	450	350	460	58000
-I		0.035	~ 0	0.090	0.020	0.34
In-49	s	0.0005	0.0002	0.0015	0.0010	0.1
Ir-77	(n)			7.8 E-6		0.0015
K-19	c	10 E6				390 E6
La-57	n	0.013	0.028	0.019	0.051	5.6
Li-3	c	0.026 E6				0.18 E6
Lu-71	n	0.0008	0.0012	0.0004	0.0024	0.32
Mg-12	c	53 E6				1.3 E9
Mn-25	s	1.9	1.8	1.9	0.8	72
Mo-42	c	107				10300

	type	Atlantic		Pacific		Whole ocean Ave.(10 ⁻⁹ g/l)
		Surface (nM)	Deep (nM)	Surface (nM)	Deep (nM)	
N-7	n	5	20000	5	40000	0.42 E6
Na-11	c	470 E6				10.8 E9
Nb-41	(n)					10
Nd-60	n	0.013	0.023	0.013	0.034	4.2
Ni-28	n	2	7	2	10	530
Os-76	(n)					1.7 E-3
P-15	n	50	1400	50	2800	65000
Pb-82	s	0.150	0.020	0.050	0.005	2.7
Pd-46	n			0.18 E-3	0.66 E-3	0.07
Pr-59	n	0.0030	0.0050	0.0032	0.0073	0.87
Pt-78	n	0.0003	0.0003	0.0005	0.0014	0.1
Ra-88	n	16 E-6	41 E-6	20 E-6	71 E-6	130 E-6
Rb-37	c	1400				0.12 E6
Re-75	c			0.043		8
Rh-45	(n)					
Ru-44	(n)			<0.05 E-3		≤0.005
S-16	c	28 E6				898 E6
Sb-51	c	1	1			150
Sc-21	m	0.014	0.020	0.008	0.018	0.86
Se-34	VI	0.5	1.0	0.5	1.3	90
	IV	0.03	0.5	0.07	0.9	55
Si-14	n	1000	30000	1000	150000	2.5 E6
Sm-62	n	0.0027	0.0044	0.0027	0.0068	0.84
Sn-50	s	0.020	0.005			0.6
Sr-38	c	0.089 E6	0.090 E6	0.089 E6	0.090 E6	7.8 E6
Ta-73	(n)					≤2.5
Tb-65	n	0.0007	0.0010	0.0005	0.0016	0.21
Te-52	VI	0.0009	0.0004	0.0010	0.0004	0.05
	IV	0.0004	0.0002	0.0005	0.0001	0.02
Th-90	s					0.05
Ti-22	m	0.060	0.300	0.005	0.200	10
Tl-81	pc	0.069				14
Tm-69	n	0.0008	0.0010	0.0004	0.0020	0.25
U-92	c	13.5				3200
V-23	n	35	35	40	49	2150
W-74	(n)					100
Y-39	(n)					13
Yb-70	n	0.0030	0.0045	0.0022	0.0130	1.5
Zn-30	n	0.8	1.6	0.8	8.2	320
Zr-40	m		0.200	0.080	0.185	17

Notice: Ex = 10^x; Data source: mainly from Whitfield and Turner (1987) and additional data from Li (1991 and references therein); and Colodner (1991) for Atlantic Pt, and Hodge et al. (1985) for Pacific Pt; Flegal et al. (1995) for Ag, and Cutter and Cutter (1995) for Sb.