

**Table 7.2** Total fluxes and fluxes of biogeochemically essential constituents measured at globally-distributed deep open-ocean stations, including large marginal seas, neritic environments (10), and the Black Sea (13). These stations were covered by bottom-tethered time-series sediment traps which were deployed at several hundred meters from the bottom yet above the nepheloid layer, for (at least) a full year. The contents of the essential biogeochemical constituents were published or provided by the original investigators. References: (1) Honjo et al. (1995); (2) Honjo et al. (1995) and Honjo and Manganini (unpublished data); (3) Honjo (1984) and C. S. Wong (unpublished data); (4) Nozaki (1989); (5) Honjo et al. (1995); (6) Honjo (1990b); (7) Honjo and Manganini (1993); (8) Pudsey and Honjo (unpublished data); (9) Fischer et al. (1988); (10) Wefer et al. (1988); (11) Nair et al. (1989); (12) Ittekkot et al. (1991); (13) Hay et al. (1991).

Station	Year	Location	Depth	g m <sup>-2</sup> d <sup>-1</sup>						Weight %			Mole			(Ref.)	
				Total	CaCO <sub>3</sub>	SiO <sub>2</sub>	C <sub>o</sub>	C <sub>ino</sub>	CaCO <sub>3</sub>	SiO <sub>2</sub>	C <sub>o</sub>	C <sub>o</sub>	Si	C <sub>o</sub> /C <sub>ino</sub>	Ca/Si		
<i>North Pacific</i>																	
C. Okhotsk	90/91	53°N 149°E	1.1	47	4	25	1.7	0.5	9	33	3.6	1.7	11.7	3.4	0.1	1	
C. Bering	91/92	58°N 179°E	3.1	52	6	31	1.8	0.7	11	59	3.4	2.7	16.8	2.8	0.1	2	
Sta. P	82/83	50°N 145°W	3.8	56	19	30	2.3	2.3	35	54	4.1	7.7	14.1	1.0	0.4	3	
Sta. P	83/84	50°N 145°W	3.8	17	9	7	0.9	1.1	52	38	5.2	3.6	3.1	0.8	0.6	3	
Sta. P	84/85	50°N 145°W	3.8	22	11	10	0.6	1.3	44	44	2.7	4.3	4.6	0.5	0.7	3	
Sta. P-C	85/86	48°N 138°W	3.5	26	12	11	1.2	1.5	42	42	4.7	4.9	5.1	0.8	0.7	3	
Kuroshio-JT	88/89	34°N 142°E	4.2	36	12	6	1.1	1.4	33	17	3.1	4.8	2.8	0.8	1.2	4	
EqPac	92/93	9°N 140°W	2.3	8	5	2	0.5	0.6	61	25	6.0	2.0	0.8	0.8	1.8	5	
EqPac	92/93	5°N 140°W	2.1	27	18	6	1.5	2.2	66	23	5.5	7.2	2.4	0.7	2.1	5	
EqPac	92/93	2°N 140°W	2.2	27	18	6	1.3	2.2	67	23	4.9	7.2	2.4	0.6	2.1	5	
EqPac	92/93	EQ 140°W	3.6	35	23	7	1.2	2.8	66	21	3.5	9.2	3.4	0.4	1.9	5	
EqPac	92/93	2°S 140°W	3.6	31	18	7	1.3	2.1	57	22	4.2	7.1	3.2	0.6	1.6	5	
EqPac	92/93	5°S 140°W	2.2	22	15	5	1.0	1.8	66	21	4.5	5.9	2.1	0.6	1.9	5	
EqPac	92/93	12°S 135°W	3.6	8	6	1	0.3	0.7	80	10	3.9	2.5	0.4	0.4	4.7	5	

*North Atlantic*

Fram Strait	84/85	79°N	1°E	2.4	7	1.4	0.6	0.4	0.2	20	8	5.6	0.6	0.3	2.4	1.4	6
Bear Island	84/85	76°N	11°E	2.8	29	7	2	2.9	0.8	23	7	10.0	2.6	0.9	3.6	2.0	6
Greenland B.	84/85	75°N	7°W	2.8	10	3	3	0.4	0.3	33	26	3.9	1.3	1.2	1.0	0.8	6
Aegir Ridge	85/86	70°N	2°W	2.8	17	9	1	0.5	1.1	53	9	3.1	3.6	0.7	0.5	3.7	6
Lofoten Basin	84/85	69°N	10°E	2.8	24	11	1	1.4	1.4	48	5	5.8	4.6	0.5	1.0	6.5	6
Jan Mayen	85/86	66°N	1°E	2.6	17	9	2	0.6	1.1	53	9	3.4	3.7	0.8	0.5	3.4	6
NABE	89/90	48°N	21°W	3.7	26	15	6	1.0	1.8	59	21	3.8	6.2	2.6	0.6	1.7	7
NABE	89/90	34°N	21°W	4.5	21	13	2	0.9	1.5	61	9	4.3	5.7	0.9	0.6	3.9	7

*Southern Ocean*

S. Georgia Is.	87/88	57°S	37°W	2.7	8	1	7	0.1	0.4	13	88	3.8	0.5	3.3	0.3	0.2	8
Weddell Sea	85/86	62°S	35°W	0.9	0.4	0.01	0.3	0.03	<	2	75	8	<	0.1	25	0.03	9
Bransfield St.	85/86	62°S	58°W	1.6	108	5	39	4.3	0.6	5	36	4.0	2.0	18	7.1	0.08	10

*North Indian Ocean*

Arab. Sea W	86/87	16°N	60°E	2.9	34	19	7	1.8	2.3	56	21	5.3	7.6	3.4	0.8	1.6	11
Arab. Sea C	86/87	14.5°N	65°W	2.8	27	18	3	1.5	2.1	66	12	5.7	7.0	1.5	0.7	3.3	11
Arab. Sea E	86/87	15.5°N	69°E	2.8	24	12	3	1.6	1.4	50	13	6.8	4.6	1.5	1.1	2.2	11
B. Bengal C	87/88	13°N	84°E	2.3	45	17	8	2.6	2.0	38	19	5.8	6.8	7.9	1.3	0.6	12
E. Ind. O	87/88	4.5°N	87°E	3.0	38	19	7	2.0	2.2	49	19	5.3	7.4	8.7	0.9	0.6	12

*Black Sea*

N. of Amasra	82/85	42°N	32°E	1.2	100	28	9	13.1	3.4	28	9	13.0	11.2	4.2	3.8	1.8	13
N. of Sakarya	86/88	42°N	30°E	1.2	28	10	10	5.6	1.2	36	36	20.0	4.0	4.7	4.6	0.6	13