

7 Lists
 7.1 Leg M44/1
 7.1.1 Station Lists

Table 7.1.1: Station list of Leg M44/1

Meteor No.	FU Berlin No.	Date	Equipment	Latitude N	Longitude E	Water Depth (m)	Samples/ Sediment recovery	Remarks
1999								
Mediterranean								
29	3 KG	28.1.99	BC	35°13.74'	21°28.40'	3514 m	-	
30	4 KG	28.1.99	BC	35°14.21'	21°28.52'	3435 m	0.65 m	
31	5 KG	28.1.99	BC	35°13.82'	21°28.34'	3520 m	-	
32	6 KL	28.1.99	BC	35°48.71'	22°40.51'	1000 m	7.20 m	
33	7 ST	29.1.99	ST	34°25.90'	26°10.75'	4300 m		
Sea of Marmara								
34	9 MC	1.2.99	MUC	40°50.63'	27°40.20'	1087 m		
34	10 KL	1.2.99	PC	40°50.60'	27°40.18'	1087 m	8.15 m	
34	11 KLG	1.2.99	PCG	40°50.60'	27°40.17'	1087 m	11.34 m	
35	12 KLG	2.2.99	PCG	40°50.21'	27°40.77'	1078 m	12.76 m	
36	13 MC	2.2.99	MUC	40°50.21'	27°40.86'	1077 m		
37	14 MC	2.2.99	MUC	40°51.11'	27°40.84'	1079 m		
38	15 KL	2.2.99	PC	40°51.08'	27°40.86'	1079 m	10.47 m	
39	16 CTD	3.2.99	CTD	40°51.08'	27°40.85'	1079 m		
40	17 KL	3.2.99	PC	40°49.42'	27°43.90'	426 m	3.20 m	banana
41	18 KL	3.2.99	PC	40°49.43'	27°43.88'	420 m	2.20 m	
42	19 MC	3.2.99	MUC	40°50.50'	27°45.79'	567 m		
43	20 KLG	3.2.99	PCG	40°50.51'	27°45.79'	566 m	10.61 m	
44	21 KL	3.2.99	PC	40°50.50'	27°45.77'	566 m	7.20 m	
45	22 CTD	3.2.99	CTD	40°48.87'	27°44.00'	730 m		
46	23 KL	3.2.99	PC	40°48.83'	27°43.99'	731 m	9.35 m	
47	25 MC	3.2.99	MUC	40°48.91'	27°44.05'	727 m		
48	26 CTD	3.2.99	CTD	40°48.67'	27°57.45'	1216 m		
49	28 CTD	4.2.99	CTD	40°48.25'	28°01.02'	1235 m		
50	29 KL	4.2.99	PC	40°48.22'	28°01.12'	1222 m	12 m	
51	30 MC	4.2.99	MUC	40°48.20'	28°01.12'	1227 m		
52	31 MC	4.2.99	MUC	40°48.94'	27°44.13'	723 m		
53	32 MC	4.2.99	MUC	40°45.61'	27°44.94'	711 m		
54	33 KL	4.2.99	PC	40°45.64'	27°44.90'	712 m	6 m	
55	34 CTD	4.2.99	CTD	40°48.82'	27°42.49'	771 m		
56	35 CTD	4.2.99	CTD	40°48.83'	27°43.28'	727 m		
57	36 CTD	4.2.99	CTD	40°48.84'	27°43.67'	730 m		
58	37 CTD	5.2.99	CTD	40°48.85'	27°44.28'	727 m		
59	38 CTD	5.2.99	CTD	40°48.78'	27°44.93'	668 m		
60	39 CTD	5.2.99	CTD	40°48.75'	27°45.74'	647 m		
61	40 KL	5.2.99	PC	40°47.12'	27°46.31'	702 m	9 m	
62	43 CTD	6.2.99	CTD	40°48.94'	27°46.01'	642 m		
63	44 CTD	6.2.99	CTD	40°49.34'	27°42.20'	709 m		
64	45 CTD	6.2.99	CTD	40°48.96'	27°43.48'	714 m		

Table 7.1.1: continued

Meteor No. 1999	FU Berlin No.	Date	Equipment	Latitude N	Longitude E	Water Depth (m)	Samples/ Sediment recovery	Remarks
65	46	6.2.99	CTD	40°48.71'	27°43.97'	691 m		
66	47	6.2.99	CTD	40°48.22'	27°44.80'	593 m		
67	48	6.2.99	HBS	40°48.70'	27°43.97'	691 m		(rope length)
				40°48.70'	27°43.96'			
68	49	6.2.99	HBS	40°48.72'	27°43.93'	721 m		(rope length)
69	51	7.2.99	FCM	40°48.83'	27°44.08'	727 m		
70	52	7.2.99	HBS	40°48.73'	27°43.96'	719 m		(rope length)
				40°48.72'	27°43.96'			
71	53	7.2.99	HBS	40°48.69'	27°45.81'	647 m		(rope length)
				40°49.05'	27°43.56'			
72	54	7.2.99	HBS	40°49.31'	27°43.41'	718 m		(rope length)
				40°48.94'	27°44.39'			
73	55	7.2.99	WCM	40°48.70'	27°48.31'	715 m		
74	56	8.2.99	CTD	40°48.67'	27°48.38'	724 m		
75	57	8.2.99	CTD	40°49.13'	27°55.94'	1175 m		
76	58	8.2.99	HBS	40°48.99'	27°43.82'	724 m		(rope length)
				40°48.88'	27°44.61'			
77	59	8.2.99	HBS	40°48.89'	27°44.42'	706 m		(rope length)
				40°49.10'	27°43.70'			
78	60	8.2.99	HBS	40°49.50'	27°45.49'	596 m		(rope length)
				40°48.33'	27°43.90'			
79	61	8.2.99	HBS	40°49.00'	27°43.79'	722 m		
80	62	8.2.99	HBS	40°49.00'	27°43.79'	722 m		
81	63	8.2.99	WCM	40°48.83'	27°44.78'	678 m		
82	64	9.2.99	CTD	40°49.27'	27°55.33'	1076 m		
83	65	9.2.99	CTD	40°49.17'	27°56.19'	1190 m		
84	66	9.2.99	HBS	40°49.30'	27°54.95'	1047 m		
85	67	9.2.99	HBS	40°49.06'	27°44.38'	695 m		
86	68	9.2.99	PC	40°48.98'	27°43.80'	724 m	8 m	
87	69	9.2.99	MUC	40°48.98'	27°43.80'	723 m		
88	70	9.2.99	MUC	40°49.00'	27°43.81'	725 m		
89	71	9.2.99	MUC	40°48.83'	27°43.98'	727 m		
90	72	9.2.99	PCG	40°48.84'	27°43.99'	728 m		
91	73	9.2.99	PC	40°49.22'	27°55.25'	1072 m	8.90 m	
92	74	9.2.99	MUC	40°49.21'	27°55.30'	1078 m		
93	75	10.2.99	MUC	40°49.27'	27°55.30'	1074 m		
94	76	10.2.99	MUC	40°48.96'	27°43.80'	730 m		
95	77	10.2.99	MUC	40°48.95'	27°43.78'	731 m		
96	78	10.2.99	MUC	40°48.89'	27°43.79'	733 m		
97	79	10.2.99	PC	40°48.93'	27°43.83'	732 m	8.65 m	
98	80	10.2.99	WCM	40°49.27'	27°55.32'	1078 m		
99	81	10.2.99	CTD	40°45.50'	27°43.97'	681 m		
100	82	10.2.99	PC	40°45.50'	27°44.03'	684 m	4.50 m banana	
101	83	10.2.99	MUC	40°49.00'	27°43.91'	721 m		
102	84	10.2.99	PC	40°49.02'	27°43.95'	717 m	0.20 m	
103	85	10.2.99	PC	40°48.85'	27°43.96'	730 m	8.35 m	
104	86	10.2.99	PC	40°51.38'	27°57.33'	1194 m		
105	88	10.2.99	PCG	40°45.39'	28°46.45'	1175 m	14.85 m	
106	89	11.2.99	PC	40°45.40'	28°46.36'	1169 m	7.30 m	
107	90	11.2.99	MUC	40°45.41'	28°46.28'	1168 m		
108	91	11.2.99	CTD	40°45.46'	28°46.33'	1169 m		
109	92	11.2.99	WCM	40°45.45'	28°46.33'	1168 m		

Table 7.1.1: continued

Meteor No. 1999	FU Berlin No.	Date	Equipment	Latitude N	Longitude E	Water Depth (m)	Samples/ Sediment recovery	Remarks
110	93 MC	12.2.99	MUC	40°46.95'	28°46.45'	1143 m		
111	94 KL	12.2.99	PC	40°47.02'	28°46.37'	1151 m	no core	
112	95 KL	12.2.99	PC	40°47.00'	28°46.40'	1143 m	8.80 m	
113	96 KLG	12.2.99	PCG	40°47.02'	28°46.50'	1142 m	10.26 m	
114	97 KL	12.2.99	PC	40°46.53'	28°46.53'	1094 m	5.40 m	

BC: Box Corer
HBS: Hydro Bottom Station
MUC: Multicorer
PC: Piston Corer (Göttingen)
PCG: Piston Corer (FU Berlin)
ST: Sediment Trap
WCM: Water Current Meter

7.1.2 Fluid samples with Mn²⁺ and S²⁻ dataTable 7.1.2: Fluid samples with Mn²⁺ and S²⁻ data

Station	Location	depth (m)	Mn ²⁺ (ppb)	S ²⁻ (ppb)
22 CTD	40°48.82' N, 27°44.62' W	13.5	1.5	
		307	0.6	
		559	1.4	
		609	1.2	
		658	0.7	
		698	2.2	
		729	0.6	
26 CTD	40°48.67' N, 27°57.47' W	5	2.2	
		706	2.3	
		1134	3	
28 CTD	40°48.25' N, 28°01.02' W	1184	5.9	
		4.5	0.5	
		1203	1.7	
34 CTD	40°48.83' N, 27°42.48' W	1249	4.5	
		503	1.8	
		602	3.8	
35 CTD	40°48.85' N, 27°43.27' W	702	3.3	
		771	1.7	
		504	1.4	
		604	1.2	
36 CTD	40°48.85' N, 27°43.69' W	703	1.6	
		734	2.8	
		504	1	
		604	5.3	
37 CTD	40°48.85' N, 27°44.28' W	694	5.1	
		736	3.6	
		504	0.7	
		603	2.5	
38 CTD	40°48.77' N, 27°44.90' W	702	5.5	
		731	2.8	
		314	1.7	
		504	2.3	
39 CTD	40°48.75' N, 27°45.73' W	604	2.3	
		653	2.9	
		505	1.6	
		604	1.8	
43 CTD	40°49.32' N, 27°42.28' W	650	3.7	
		605	1.7	
		653	3.9	
56 CTD	40°48.66' N, 27°48.36' W	604	1.6	
		634	0.8	
		683	1.9	
		731	1.9	
57 CTD	40°49.17' N, 27°55.93' W	606	0.5	
		706	0.7	
		806	0.7	
		906	0.5	
		1030	0.4	
		1124	0.6	
		1174	2	

Table 7.1.2: continued

Station	Location	depth (m)	Mn ²⁺ (ppb)	S ²⁻ (ppb)
64 CTD	40°49.24' N, 27°55.40' W	297	0.4	
		895	1.1	
		944	0.5	
		994	1.4	
		1044	0.9	
		1094	3.2	
65 CTD	40°49.17' N, 27°56.20' W	34	0.1	
		415	0.6	
		1016	0.2	
		1065	0.2	
		1114	0.7	
		1164	1.1	
9 MC	40°50.63' N, 27°40.20' W	1214	1.7	
		-5	34.4	< 10
		1.5	42.1	< 10
		11	1260	< 10
		21	1520	< 10
		31	1080	< 10
14 MC	40°51.11' N, 27°40.84' W	52	1160	< 10
		-5	6.3	< 10
		1	47	< 10
		6	193	< 10
		8	429	< 10
		12	1234	< 10
		17	1696	< 10
		24	2593	< 10
		33	2174	< 10
		41	1530	< 10
25 MC	40°48.91' N, 27°44.05' W	51	1225	< 10
		-5	11	< 10
		1	58.8	< 10
		9	2148	< 10
		15	1095	< 10
		24	1285	< 10
30 MC	40°48.20' N, 28°01.12' W	36	1285	< 10
		51	1168	< 10
		-5	2.1	< 10
		1	101	< 10
		9	157	< 10
		15	1444	< 10
31 MC	40°48.94' N, 27°44.13' W	22	1632	< 10
		41	1404	< 10
		-5		< 10
		1	33.6	< 10
		7	693	< 10
		15	795	< 10
10 KL	40°50.61' N, 27°40.18' W	22	1820	< 10
		27	1198	< 10
		41	568	< 10
		150	1208	6.3
		400	477	19.9
		750	187	24.3
		905	82	23800

Table 7.1.2: continued

Station	Location	depth (m)	Mn ²⁺ (ppb)	S ²⁻ (ppb)
23 KL	40°48.85' N, 27°43.99' W	17	507	1
		57	358	1
		95	964	1
		170	413	1
		256	298	53
		340	331	1
		370	275	1
		459	47	949
		469	130	540
		501	23.4	610
		530	51	4240
		557	53	57600
		590	27	28600
		630	33.8	2322
		670	99.9	748
		720	288	2150
		40 KL	40°47.06' N, 27°46.34' W	756
801	28.4			206
856	55			146
217	1006			0.3
275	899			0.1
72 KL	40°48.84 N, 27°43.99' W	455	446	3.2
		772	500	2.6
		35	10	1
		65	11	1
		120	550	1
		150	352	1
		190	319	1
		220	171	1
		262	175	1
		282	120	10
		302	81	69
		322	139	1480
		342	66	7410
		362	23	38630
		382	17	26170
402	33	17210		
422	19	108990		
442	8	215650		
462	14	72046		
482	40	38780		
502	14	104500		
522	15	1053		
542	15	8887		
562	27	5604		
582	39	1		
602	12	62		
622	18	1		

Table 7.1.2: continued

Station	Location	depth (m)	Mn²⁺ (ppb)	S²⁻ (ppb)
72 KL	40°48.84 N, 27°43.99' W	662	23	1
		695		101
		745		20
		810		14
		860		179
		913	48	776
		973	36	361
		1011	63	436
		1061	45	365

7.2 Leg M44/2

7.2.1 Station Lists

Meteor No. 1999	Profile No.	Date 1999	Equipment	Time (UTC)	Latitude N	Longitude E	Water Depth (m)
117	3	21.02	CTD/Ro, MN maxi 2x LS MER	13:58	28°20.22'	34°33.06'	865
118	4		CTD/Ro	19:32	28°34.92'	34°39.06'	1175
119	5		CTD/Ro	22:25	28°49.98'	34°44.04'	1283
120	6	22.02	CTD/Ro	01:11	29°05.04'	34°46.08'	820
121	7		CTD/Ro, HLN 2x	03:30	29°16.98'	34°48.96'	827
122	8		CTD/Ro, MPS, MN maxi	07:19	29°29.52'	34°57.00'	591
	9		CTD/Ro , MN maxi 2x, LS PAR, LS MER 2x	08:52	29°29.52'	34°57.00'	591
123	10		CTD/Ro, MN maxi 2x, MPS	14:33	29°17.04'	34°48.90'	831
	11		CTD/Ro	18:12	29°17.04'	34°49.02'	831
124	12		CTD/Ro, MN maxi 2x	20:00	29°04.98'	34°45.96'	824
125	13	23.02	CTD/Ro, HLN, MN maxi 2x, LS PAR, LS MER	02:00	28°49.98'	34°44.04'	1410
126	14		CTD/Ro, MN maxi 3x, MPS, LS PAR, LS MER 2x	09:56	28°35.04'	34°39.00'	1176
	15		CTD/Ro	16:27	28°35.10'	34°39.00'	1176
127	16		CTD/Ro	19:11	28°20.04'	34°33.00'	859
128	17		CTD/Ro	23:51	27°53.04'	34°40.02'	623
129	18	24.02	CTD/Ro, HLN	02:06	27°38.94'	34°40.14'	910
130	19		CTD/Ro	05:34	27°25.08'	34°40.08'	885
131	20		CTD/Ro, MN maxi 2x, LS PAR, LS MER 2x	08:20	27°11.04'	34°39.96'	1121
132	21		CTD/Ro	16:07	27°17.88'	34°22.08'	1291
	22		CTD/Ro, MPS	17:00	27°17.88'	34°22.02'	1291
133	23		CTD/Ro, MN maxi 2x, MPS	21:45	27°25.02'	34°04.92'	808
134	24	25.02	CTD/Ro, LS MER 3x, MPS, MOCNESS	07:20	28°20.04'	34°33.00'	872
135	25		LS MER 2x, CTD/Ro, MPS, MOCNESS	14:05	28°34.92'	34°39.00'	1182
136	26		CTD/Ro, MN maxi, MPS	19:47	28°50.04'	34°43.98'	1347
137	27	26.02	CTD/Ro, MOCNESS, LS MER 3x	01:49	29°05.04'	34°46.02'	885
138	28		LS MER 2x, LS PAR, CTD/Ro, MPS, MOCNESS	08:15	29°17.04'	34°49.02'	848
139	29		CTD/Ro, LSPAR, LS MER 2x	12:56	29°29.52'	34°57.00'	587
	30		CTD/Ro, MN maxi	14:18	29°29.52'	34°57.06'	587
140	31		CTD/Ro	16:52	29°31.02'	34°58.68'	311
141	32		CTD/Ro	17:56	29°27.60'	34°56.34'	731
142	33		CTD/Ro	19:06	29°27.60'	34°54.84'	751
143	34		CTD/Ro	20:26	29°23.70'	34°53.22'	838
144	35	27.02	LS MER 3x, CTD/Ro, MN maxi 2x	08:35	27°52.80'	34°39.96'	651
145	36		LS PAR, LS MER 2x, CTD/Ro, MN maxi, MOC	13:54	27°39.24'	34°40.08'	953
	37		CTD/Ro	18:03	27°41.70'	34°40.20'	953
146	38		CTD/Ro, MN maxi	20:07	27°24.96'	34°39.96'	897
147	39	28.02	CTD/Ro, Nansen-Netz	01:56	27°10.98'	34°39.96'	1123
	40		CTD/Ro	03:22	27°10.92'	34°39.90'	1123
148	41		LS MER + PAR 2x, LS MER, CTD/Ro, MN maxi, MOC	07:53	27°23.82'	34°22.08'	1086
149	42		LS MER, CTD/Ro	13:31	27°25.02'	34°05.04'	797
150	43	01.03	CTD/Ro	04:39	29°29.46'	34°57.00'	585
151	44		LS PAR, LS MER 2x, MN mini 3x, CTD/Ro	16:48	29°29.46'	34°57.18'	599

7.2.1 continued

Meteor No. 1999	Profile No.	Date 1999	Equipment	Time (UTC)	Latitude N	Longitude E	Water Depth (m)
152	45	02.03	CTD/Ro, Nansen-Netz, LS MER 2x, LS PAR	01:57	28°20.04'	34°33.06'	866
	46		CTD/Ro 2x, MN maxi, LS MER 2x	06:00	28°20.04'	34°33.00'	866
	47		CTD/Ro, LS PAR, LS MER 2x, MN maxi	09:54	28°20.10'	34°33.06'	866
	48		CTD/Ro Jo-Jo, Nansen-Netz 2x	13:28	28°20.04'	34°33.06'	866
	49		CTD/RO, MN maxi	18:03	28°20.04'	34°33.00'	866
	50		CTD/Ro Jo-Jo, MN maxi	21:03	28°20.10'	34°33.06'	866
	51	03.03	CTD/Ro, LS PAR, LS MER 3x, MN mini 2x	01:52	28°20.04'	34°33.06'	866
153	52		CTD/Ro, MN-Mini, Schl.eins. 1x4 NDR, 2x5, 1x7 Pers.	12:03	27°53.04'	34°39.96'	646
154	53		CTD/Ro, MN- maxi	17:56	27°25.08'	34°40.38'	891
155	54	04.03	CTD/Ro, Nansen-Netz2x, LS PAR, LS MER 2x	03:00	27°24.00'	34°22.14'	1079
156	55		CTD/Ro, MN mini 4x, LS PAR, LS MER 2x	08:05	27°24.96'	34°04.98'	826
157	56	05.03	CTD/Ro, Nansen-Netz, LS PAR, LS MER 2x,	02:09	29°29.46'	34°57.06'	590
	57		CTD/Ro, MN Maxi, LS PAR, LS MER 3x	06:18	29°29.52'	34°57.00'	590
	58		CTD/Ro, LS PAR, LS MER 3x, MN maxi	09:58	29°29.52'	34°56.88'	590
	59		CTD/Ro? Jo-Jo, BO, Nansen-Netz	13:09	29°29.58'	34°57.24'	590
	60		CTD/Ro Jo-Jo, MN maxi	16:55	29°29.64'	34°57.12'	590
	61		CTD/Ro	21:42	29°29.52'	34°57.12'	590
158	62	06.03	MN maxi, CTD/Ro, Nansen-Netz	02:00	29°24.60'	34°54.30'	829
159	63		CTD/Ro, MN maxi, LS MER	04:30	29°24.66'	34°51.66'	446
160	64		CTD/Ro, MN maxi	06:32	29°24.60'	34°52.62'	650
161	65		CTD/Ro, MN maxi	08:39	29°24.60'	34°54.36'	829
162	66		CTD/Ro, MN maxi	11:00	29°24.66'	34°56.16'	798
163	67		CTD/Ro, MN maxi, LS MER 2x	13:15	29°24.60'	34°57.06'	521
	68		CTD/Ro	16:00	29°24.54'	34°57.00'	521
164	69		CTD/Ro, MN Mini 3x	18:56	29°04.98'	34°45.96'	822
165	70	07.03	CTD/Ro, Nansen-Netz, MN maxi, MPS, LS PAR, LS MER 3x	03:13	28°49.92'	34°44.04'	1402
166	71		CTD/Ro, LS PAR 2X, LS MER 2x	11:26	28°34.98'	34°39.00'	1174
167	72		CTD/Ro, MN maxi	15:43	28°19.80'	34°32.82'	849

CTD/Ro	Rosette with CTD
MN maxi	MultiNet maxi
MN mini	MultiNet mini
MOC	MocNess
BO	Bongo Net
HLN	Helgoländer Larvae Net
Nansen-Netz	Nansen Net
MPS	Multipara Probe
LS MER	Light Probe
LS PAR	Light Probe

7.3 Leg M44/3

7.3.1 Station Lists

Table 7.3.1: Station list of Leg M44/3

Meteor No.	GeoB No.	Date	Equipment	Time Seafloor (UTC)	Latitude N	Longitude E	Water Depth (m)	Samples/Sediment recovery (cm)	Remarks
1999		1999							
Gulf of Aqaba, Jordan									
168	5801-1	12.03.	MN	14:32	29°24.89'	34°54.72'	827 m	5x1.5 l	500, 400, 300, 200, 100 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5801-2		MUC	15:18	29°24.90'	34°54.70'	826 m	40 cm	6 big, 4 small tubes filled,
	5801-3		MUC/CTD	16:27	29°24.90'	34°54.70'	826 m	40 cm	6 big, 4 small tubes filled,
169	5801-4	13.03.	SL 12	17:39	29°24.92'	34°54.71'	824 m	280 cm	
	5802-1		MN	05:10	29°30.47'	34°59.68'	396 m	5x1.5 l	370, 300, 200, 100, 50 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5802-2		MUC/CTD	05:49	29°30.45'	34°57.68'	396 m	43 cm	6 big, 4 small tubes filled,
170	5802-3	13.03.	SL 6	06:42	29°30.42'	34°57.65'	400 m	295 cm	
	5803-1		SL 6	07:31	29°30.99'	34°58.10'	298 m	97 cm	
	5803-2		MUC/CTD	08:05	29°30.96'	34°58.02'	301 m	7 cm	6 big, 3 small tubes filled,
171	5804-1	13.03.	MN	09:14	29°30.12'	34°57.42'	456 m	5x1.5 l	400, 300, 200, 100, 50 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5804-2		MUC/CTD	09:46	29°30.07'	34°57.44'	463 m	41 cm	6 big, 4 small tubes filled,
	5804-3		MUC	10:32	29°30.10'	34°57.40'	464 m	40 cm	6 big, 4 small tubes filled,
172	5804-4	13.03.	SL 6	11:23	29°30.10'	34°57.40'	464 m	330 cm	
	5805-1		SL 6	12:55	29°24.90'	34°54.60'	827 m	97 cm	
173	5806-1	13.03.	SL 6	14:58	29°22.76'	34°53.30'	838 m	39 cm	
	5806-2		MUC/CTD	15:51	29°22.75'	34°53.30'	838 m	40 cm	5 big, 4 small tubes filled,
	5806-2		MN	17:01	29°23.26'	34°53.54'	838 m	5x1.5 l	500, 400, 300, 200, 100 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
174	5807-1	15.03.	MN	04:31	29°28.81'	34°56.78'	644 m	5x1.5 l	500, 400, 300, 200, 100 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5807-2		MUC/CTD	05:15	29°28.81'	34°56.78'	646 m	39 cm	6 big, 4 small tubes filled,
	5807-3		SL 6	06:12	29°28.82'	34°56.76'	644 m	186 cm	
Gulf of Aqaba, Israel									
175	5808-1	15.03.	MN	07:46	29°29.06'	34°56.32'	573 m	5x1.5 l	500, 400, 300, 200, 100 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5808-2		SL 6	09:00	29°29.03'	34°56.32'	578 m	364 cm	
	5808-3		MUC/CTD	11:10	29°29.06'	34°56.35'	576 m	43 cm	6 big, 4 small tubes filled,
176	5809-1	15.03.	MN	12:21	29°30.41'	34°57.42'	397 m	5x1.5 l	350, 250, 150, 100, 50 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5809-2		MUC/CTD	12:56	29°30.40'	34°57.36'	401 m	41 cm	6 big, 4 small tubes filled,
	5809-3		SL 6	13:41	29°30.39'	34°57.36'	404 m	304 cm	
Gulf of Aqaba, Jordan									
177	5810-1	15.03.	MN	14:31	29°30.23'	34°57.73'	442 m	5x1.5 l	400, 300, 200, 100, 50 m (2xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5810-2		SL 6	15:01	29°30.22'	34°57.73'	440 m	265 cm	
	5810-3		MUC/CTD	15:43	29°30.21'	34°57.73'	441 m	35 cm	6 big, 4 small tubes filled,
178	5811-1	16.03.	MUC/CTD	11:21	29°24.86'	34°54.70'	827 m	39 cm	6 big, 4 small tubes filled,

Table 7.3.1: continued

Meteor No.	GeoB No.	Date	Equipment	Time Seafloor (UTC)	Latitude N	Longitude E	Water Depth (m)	Samples/ Sediment recovery (cm)	Remarks
<u>Gulf of Aqaba, Israel</u>									
179	5812-1	16.03.	SL 6	13:04	29°31.19'	34°57.84'	262 m	50 cm	
	5812-2		MUC	13:34	29°31.14'	34°57.79'	269 m	15 cm	6 big, 4 small tubes filled,
180	5813-1	16.03.	MUC	14:07	29°31.32'	34°57.90'	240 m	19 cm	6 big, 4 small tubes filled,
	5813-2		SL 6	14:43	29°31.34'	34°57.90'	235 m	247 cm	
181	5814-1	16.03.	SL 6	15:20	29°31.71'	34°58.09'	138 m	0 cm	cc: fossil corals
	5814-2		MUC	15:43	29°31.71'	34°58.08'	140 m	0 cm	did not close, no core recovery
	5814-3		MUC	15:57	29°31.72'	34°58.09'	135 m	6 cm	6 big, 4 small tubes filled
<u>Gulf of Aqaba, Jordan</u>									
182	5815-1	16.03.	GKG	17:42	29°30.64'	34°58.98'	326 m	24 cm	sandy mud, yellowish brown
<u>Gulf of Aqaba, Egypt</u>									
183	5816-1	18.03.	MN	12:31	29°14.00'	34°49.85'	891 m	5x1.5 l 5xNet	Station "B" 500, 400, 300, 200, 100 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄),
	5816-2		MN without net/ CTD	14:00	29°14.00'	34°50.00'	892 m	5x1.5 l	Station "B" 850, 800, 700, 600, 50 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ , Neodym)
184	5817-1	18.03.	MN	16:14	29°06.00'	34°46.01'	857 m	5x1.5 l 5xNet	Station "B1" 500, 400, 300, 200, 100 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5817-2		MN without net/ CTD	17:27	29°06.00'	34°46.00'	856 m	5x1.5 l	Station "B1" 800, 750, 700, 600, 50 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ , Neodym)
185	5818-1	20.03.	MN	07:30	28°47.02'	34°43.02'	1467 m	5x1.5 l 5xNet	Station "M" 500, 400, 300, 200, 100 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5818-2		MN without net/ CTD	08:55	28°47.00'	34°43.00'	1467 m	5x1.5 l	Station "M" 1450, 1200, 1000, 750, 50 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ , Neodym)
186	5819-1	20.03.	MN	11:30	28°35.00'	34°40.00'	1018 m	5x1.5 l 5xNet	Station "K" 500, 400, 300, 200, 100 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5819-2		MN without net/ CTD	12:38	28°35.00'	34°00.00'	1042 m	4x1.5 l	Station "K" 950, 800, 700, 600 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ , Neodym)
187	5820-1	22.03.	MN	07:50	28°20.98'	34°33.78'	886 m	3x1.5 l 5xNet	Station "F" 500, 400, 300*, 200*, 100m * no water samples (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5820-2		MN	09:22	28°21.02'	34°33.99'	888 m	2x1.5 l 5xNet	Station "F" 500*, 400*, 300, 200, 100*m * no water samples (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ , Neodym)
	5820-3		MN without net/ CTD	10:22	28°20.99'	34°33.96'	888 m	5x1.5 l	Station "F" 820, 700, 600, 450, 50 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)

Table 7.3.1: continued

Meteor No.	GeoB No.	Date	Equipment	Time Seafloor	Latitude N	Longitude E	Water Depth (m)	Samples/Sediment recovery (cm)	Remarks
1999		1999		(UTC)			(m)	(cm)	
Northern Red Sea, Egypt									
188	5821-1	22.03.	MN	16:22	27°23.97'	34°14.88'	1118 m	4x1.5 l 5xNet	500, 400*, 300, 200, 100m * no water samples (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
	5821-2		MN	17:16	27°23.98'	34°14.90'	1119 m	5x1.5 l 5xNet	500*, 400, 300*, 200*, 100*m * no water samples (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄ Neodym)
	5821-3		MN without net/ CTD	18:19	27°24.00'	34°14.96'	1119 m	5x1.5 l 5xNet	1050, 900, 750, 600, 50 m (1xδ ¹³ C, 1xδ ¹⁸ O, 1xPO ₄)
189	5822-1	25.03.	MN/CTD	05:44	26°49.46'	34°08.10'	609 m	5xNet	500, 400, 300, 200, 100 m no water samples
Northern Red Sea, Saudi Arabia									
190	5823-1	26.03.	MUC/ CTD	16:19	26°25.26'	35°40.19'	789 m	33 cm	6 big, 4 small tubes filled
	5823-2		SL 6	17:24	26°25.25'	35°40.18'	789 m	410 cm	
191	5824-1	26.03.	MUC/ CTD	20:35	26°29.12'	35°49.52'	587 m	33 cm	6 big, 4 small tubes filled
	5824-2		SL 6	21:23	26°29.13'	35°49.49'	591 m	567 cm	
	5824-3		SL 12	22:40	26°29.12'	35°49.50'	587 m	1016 cm	
192	5825-1	27.03.	MUC/ CTD	01:19	26°30.47'	35°56.94'	1031 m	31 cm	5 big, 4 small tubes filled
	5825-2		SL 12	02:35	26°30.47'	35°56.92'	1030 m	728 cm	
193	5826-1	27.03.	CTD/Ro.	09:29	26°12.70'	35°21.50'	1474 m	3x10 l	
	5826-2		CTD/Ro.	11:07	26°12.71'	35°21.51'	1475 m	3x10 l	
	5826-3		CTD/Ro.	12:49	26°12.71'	35°21.51'	1474 m	10x10 l	
	5826-4		CTD/Ro.	14:45	26°12.72'	35°21.78'	1474 m	10x10 l	
194	5827-1	27.03.	MUC/ CTD	17:10	26°19.11'	35°31.20'	959 m	9 cm	4 small tubes filled
195	5828-1	28.03.	MUC/ CTD	02:19	26°20.78'	35°24.13'	1072 m	11-35 cm	5 big, 4 small tubes filled
	5828-2		SL 12	03:39	26°20.71'	35°24.08'	1057 m	915 cm	
196	5829-1	28.03.	CTD/Ro.	07:23	26°12.73'	35°21.68'	1472 m	10x10 l	
197	5830-1	28.03.	CTD/Ro.	11:34	26°14.00'	35°22.70'	1444 m	10x10 l	
	5830-2		CTD/Ro.	14:20	26°14.00'	35°22.70'	1445 m	10x10 l	
198	5831-1	29.03.	MUC/ CTD	01:25	27°05.30'	35°33.98'	884 m	32 cm	5 big, 4 small tubes filled
	5831-2		SL 12	02:33	27°05.29'	35°33.97'	884 m	1146 cm	
199	5832-1	29.03.	MUC/ CTD	04:49	27°03.20'	35°24.32'	628 m	30 cm	5 big, 4 small tubes filled
	5832-2		SL 12	05:43	27°03.17'	35°24.29'	628 m	1147 cm	
	5832-3		MUC	07:09	27°03.18'	35°24.31'	628 m	30 cm	6 big, 4 small tubes filled
	5832-4		KL 12	09:30	27°03.18'	35°24.32'	627 m	1090 cm	
	5832-5		KL 18	11:49	27°03.18'	35°24.30'	628 m	1660 cm	
200	5833-1	29.03.	SL 18	16:59	27°03.17'	35°24.26'	628 m	-	(same location as 5832) core empty, no samples
	5833-2		SL 18	17:46	27°03.17'	35°24.26'	628 m	1638 cm	(same location as 5832)
201	5834-1	29.03.	SL 18	19:43	27°05.27'	35°34.01'	886 m	1661 cm	(same location as 5831)
202	5835-1	30.03.	CTD/Ro.	10:25	26°15.51'	35°20.00'	1327 m	10x10 l	
	5835-2		CTD/Ro.	12:38	26°15.52'	35°20.00'	1327 m	10x10 l	
	5835-3		IWS 3 m	16:47	26°15.51'	35°20.00'	1328 m	17x0.5 l	
	5835-4		MUC	18:17	26°15.49'	35°20.02'	1328 m	-	no surface, no samples
	5835-5		MUC	19:41	26°15.52'	35°19.99'	1328 m	2 kg	6 big, 4 small tubes filled
	5835-6		MUC	21:03	26°15.50'	35°19.99'	1328 m	2 kg	6 big, 4 small tubes filled
	5835-7		SL 18	22:34	26°15.50'	35°20.00'	1328 m	152 cm	70 cm liquid, tube bent
203	5836-1	31.03.	MUC	00:32	26°12.60'	35°21.55'	1474 m	-	no surface, no samples
	5836-2		SL 12	02:09	26°12.61'	35°21.56'	1475 m	790 cm	
	5836-3		MUC	03:13	26°12.61'	35°21.54'	1475 m	-	tubes empty, no samples
204	5837-1	31.03.	MUC/ CTD	15:01	27°36.69'	34°51.85'	771 m	18 cm	6 big, 4 small tubes filled
	5837-2		SL 12	15:51	27°36.69'	34°51.87'	770 m	718 cm	
	5837-3		KL 18	18:02	27°36.67'	34°51.86'	770 m	1740 cm	

Table 7.3.1: continued

Meteor No.	GeoB No.	Date	Equipment	Time Seafloor	Latitude N	Longitude E	Water Depth	Samples/Sediment recovery	Remarks
1999		1999		(UTC)			(m)	(cm)	
205	5838-1	01.04.	MUC/CTD	07:24	27°34.54'	34°44.16'	832 m	31 cm	6 big, 4 small tubes filled
	5838-2		KL 12	08:37	27°32.76'	34°44.33'	830 m	1070 cm	
	5838-3		SL 18	10:37	27°34.67'	34°44.26'	830 m	1618 cm	
206	5839-1	01.04.	SL 18	12:06	27°34.73'	34°47.91'	802 m	1052 cm	
	5839-2		MUC/CTD	12:55	27°34.84'	34°47.92'	803 m	17 cm	6 big, 3 small tubes filled
207	5840-1	01.04.	MUC/CTD	15:01	27°31.66'	34°41.24'	908 m	32 cm	6 big, 4 small tubes filled
	5840-2		SL 18	16:08	27°31.66'	34°41.24'	909 m	1630 cm	
	5840-3		KL 18	18:21	27°31.65'	34°41.24'	908 m	1720 cm	
208	5841-1	01.04.	KL 12	20:55	27°40.52'	34°48.00'	813 m	1065 cm	
209	5842-1	02.04.	MUC/CTD	12:14	27°42.70'	35°02.84'	863 m	35 cm	6 big, 4 small tubes filled
	5842-2		SL 18	13:21	27°42.74'	35°02.86'	863 m	1337 cm	
210	5843-1	02.04.	SL 18	16:34	27°52.71'	34°58.16'	529 m	1469 cm	
	5843-2		MUC/CTD	17:15	27°52.69'	34°58.16'	529 m	35 cm	5 big, 4 small tubes filled
211	5844-1	02.04.	MUC/CTD	20:00	27°42.81'	34°40.94'	963 m	32 cm	6 big, 4 small tubes filled
	5844-2		SL 18	20:53	27°42.81'	34°40.90'	963 m	1235 cm	
Eastern Mediterranean Sea, Israel									
212	5845-1	05.04.	MUCII	06:30	32°19.29'	34°09.90'	1284 m	42 cm	2 big tubes filled
	5845-2		KL 12	07:55	32°19.30'	34°09.96'	1283 m	1065 cm	
213	5846-1	06.04.	KL 12	04:59	32°36.87'	34°08.89'	1433 m	1050 cm	
	5846-2		MUCII	06:04	32°36.80'	34°08.94'	1432 m	50 cm	3 big tubes filled
214	5847-1	06.04.	MUCII	08:48	32°49.23'	34°09.84'	1532 m	40 cm	3 big tubes filled
	5847-2		KL 12	10:27	32°49.23'	34°09.92'	1533 m	893 cm	
215	5848-1	06.04.	KL 12	13:20	32°36.82'	34°01.62'	1449 m	1042 cm	
	5848-2		MUCII	14:32	32°36.81'	34°01.62'	1449 m	40 cm	3 big tubes filled

CTD Conductivity-temperature-depth profiler
 CTD/Ro. CTD/Rosette water sampler (10 NISKIN bottles with 10 l each)
 GKG Large box corer
 IWS 3m Interface water sampler, 3 m length (17x0.5 l)
 KL Piston corer (with 12 or 18 m pipe)
 MN Multinet (5 nets)
 MUC Multicorer (with 6 big and 4 small tubes, GeoB)
 MUCII Multicorer (with 8 big tubes, GPITü)
 SL Gravity corer (with 6, 12, or 18 m pipe)

7.4 Leg M44/4

7.4.1 Station Lists

Table 7.4.1: Station list of Leg M44/4

Abbreviation of devices		Deployments
CTD/Ro	= CTD/Rosette (with pinger)	60
BYP	= Butterfly sampler	13
D-MOC	= Double-Mocness, 1 sqm mouth opening	33
Go-Flo-WS	= water sampler (Niskin) cast	01
HN	= Handnet	34
ISP	= <i>In-situ</i> -pump	05
MOC-10	= Mocness, 10 sqm mouth opening	14
MUC	= Multiple corer	05
NBT	= Near Bottom Trawl (supraepibenthic sledge)	07
NEU	= Neustonnet	61
OFS	= Surface water sampler	35
PP-Drifter	= <i>In-situ</i> -production assembly	07
SD	= Secchi-Disc	06
ST	= Sediment trap	01

HYDROSWEEP/PARASOUND (HS/PN): 35 nm; ADCP and thermosalinograph continuously between 10.4. and 13.05.1999, i.e. begin and end of the station program.

a.b. = above bottom

Station No	Date 1999	Local Time (UTC+2 hrs)	Device	Start-Position	End-Position	Working Depth (m) remarks
	10.04.	1535	OFS	32°51.25N 033°50.82E		0
216		1735-2140	D-MOC	32°50.06N 033°10.02E	32°57.56N 033°09.73E	0-1370
		1915	OFS	32°51.45N 033°10.20E		0
		2228-2308	CTD/Ro	32°49.97N 033°10.05E		0-200
	10./11.04.	2321-0031	CTD/Ro	32°49.94N 033°10.01E		wc (water column)
217	11.04.	0704-0856	CTD/Ro	33°50.07N 034°00.08E		wc
		0826	OFS	33°50.01N 034°00.07E		0
		1410	OFS	33°49.95N 032°49.98E		0
		1700-1855	HS/PN	33 50.00N 032 10.00E	34°08.00N 031°55.80E	
218	11./12.04	20:08-0048	D-MOC	33°59.64N 032°02.38E	34°07.87N 031°55.89E	0-1850
219	12.04.	0102-0230	CTD/Ro	34°07.96N 031°55.85E		wc
		0300-0319	CTD/Ro	34°07.93N 031°55.85E		0-200
		0410-0509	CTD/Ro	34 07.90N 031°55.82E		0-1000
		0546-1242	PP-Drifter	34°07.88N 031°55.84E	34°05.98N 031°59.28E	
		0611-0634	CTD/Ro	34°07.87N 031°55.73E		0-200
		0705-0853	CTD/Ro	34°07.93N 031°55.76E		wc
		0904-0912	HN	34°07.90N 031°55.80E		0-ca 30
		0932-0948	HN	34°07.91N 031°55.81E		0-ca 30
		1105-1151	CTD/Ro	34°07.15N 031°58.10E		0-1000
		1157-1202	SD	34°06.79N 031°58.26E		0-20
		1355-1444	CTD/Ro	34°07.89N 031°55.87E		0-1000
		1650-1734	CTD/Ro	34°07.89N 031°55.85E		0-1000
		1953-2037	CTD/Ro	34°07.91N 031°55.82E		0-1000
		2038-2053	HN	34°07.88N 031°55.89E		0-ca 30
		2252-2337	CTD/Ro	34°07.90N 031°55.87E		0-1000
	13.04.	0152-0235	CTD/Ro	34°07.86N 031°55.89E		0-1000
		0451-0518	CTD/Ro	34°07.99N 031°55.82E		0-300
		0533-0723	CTD/Ro	34°07.95N 031°55.82E		wc
		0724-0831	HS/PN	34°07.82N 031°55.76E	34°05.00N 032°10.00E	
220		0836-1312	D-MOC	34°05.10N 032°10.22E	34°04.80N 031°59.61E	0-1850
		1251	OFS	34°04.84N 032°00.38E		0
221		1335-1511	MUC	34°04.81N 031°59.67E		2483
	13./14.04.	1555-0030	ISP	34°05.65N 031°57.92E		2500

Table 7.4.1: continued

222	14.04.	0126-0952	D-MOC	34°05.57N 032°06.15E	34°04.32N 031°47.75E	near bottom
		10:00-10:21	HN	34°04.27N 031°47.75E	34°04.35N 031°47.94E	0-ca 30
223		1117-1518	D-MOC	34°04.64N 031°48.44E	33°57.13N 031°50.21E	0-1850
224		1552-1729	BYP	33°57.10N 031°50.28E		300-500
225		1741-2255	D-MOC	33°56.94N 031°50.12E	33°48.49N 031°42.62E	0-1850
226	15.04.	0157-0343	CTD/Ro	34°05.51N 032°06.06E		wc
		0512-1218	PP-Drifter	34°05.47N 032°06.05E	34°02.00N 032°07.01E	
		0531-0817	BYP	34°05.52N 032°05.90E		0-2400
		0832-0908	BYP	34°05.21N 032°06.02E		0-253
		0918-1045	BYP	34°05.11N 032°06.12E		0-1000
		1132-1142	SD	34°02.15N 032°07.37E		0-28
227		1302-2110	D-MOC	34°05.56N 032°05.82E	34°05.74N 031°46.03E	near bottom
228	15./16.04.	2131-0634	ISP+BYP	34°05.73N 031°45.85E		2250-2425
229	16.04.	0754-1328	D-MOC	34°05.25N 032°00.21E	34°09.29N 031°47.52E	near bottom
		0904-0921	NEU	34°05.86N 031°57.44E	34°06.01N 031°56.83E	0-ca 30 cm
		0935-0943	NEU	34°06.15N 031°56.40E	34°06.29N 031°55.88E	0-ca 30 cm
		1224-1240	NEU	34°08.18N 031°50.20E	34°08.50N 031°49.54E	0-ca 30 cm
		1242-1258	NEU	34°08.53N 031°49.47E	34°08.83N 031°48.76E	0-ca 30 cm
230		1533-1719	CTD/Ro intercalibration with RV „EDT Argonaut“	34°06.30N 031°55.99E		wc
231	16./17.04.	2000-0132	NBT	34°06.30N 031°56.00E	34°02.76N 032°08.89E	0.5-1.5 a.b.
232	17.04.	0236-0810	NBT	34°05.03N 032°02.47E	34°08.81N 031°51.83E	0.5-1.5 a.b.
		1030	OFS	34°33.27N 031°33.95E		0
233		1224-1357	CTD/Ro	34°52.01N 031°20.09E		wc
		1400	OFS			0
		1409-1427	NEU	34°52.21N 031°19.95E	34°52.83N 031°19.57E	0-ca 30 cm
234		1643-1823	CTD/Ro	35°16.00N 031°06.00E		wc
		1708	OFS	35°16.00N 031°05.99E		0
		1833-1850	NEU	35°16.00N 031°06.00E	35°15.36N 031°05.35E	0-ca 30 cm
235		2146-2334	CTD/Ro	34°50.01N 030°40.00E		wc
		2200	OFS	34°50.02N 030°39.94E		0
		2342-2400	NEU	34°50.00N 030°40.02E	34°49.55N 030°40.29E	0-ca 30 cm
236	18.04.	0500-0649	CTD/Ro	33°57.99N 031°12.00E		wc
		0655-0713	NEU	33°58.01N 031°11.85E	33°57.85N 031°11.06E	0-ca 30 cm
237		1015-1210	CTD/Ro	33°52.07N 030°30.03E	33°52.05N 030°30.01E	wc
		1025	OFS	33°52.05N 030°30.03E		0
238		1940-2129	CTD/Ro	34°01.99N 028°51.00E		wc
		2000	OFS	34°01.99N 028°51.04E		0
		2133-2152	NEU	34°02.01N 028°51.10E	34°02.07N 028°50.45E	0-ca 30 cm
239	19.04.	0405-0500	CTD/Ro	34°19.85N 027°30.15E		0-1000
		0535-0724	CTD/Ro	34°20.00N 027°30.00E		wc
		0730-1401	PP-Drifter	34°19.00N 027°30.00E	34°10.80N 027°31.33E	
		0802-1200	D-MOC	34°19.20N 027°29.82E	34°25.12N 027°25.13E	0-1450
		1206-1222	NEU	34°25.13N 027°25.09E	34°25.54N 027°24.82E	0-ca 30 cm
		1406-1410	SD	34°10.74N 027°31.32E		0-24
240		1514-2055	MOC	34°17.04N 027°30.19E	34°26.81N 027°23.37E	0-2500
		1553-1610	NEU	34°18.09N 027°29.42E	3418.62°N 027°29.10E	0-ca 30 cm
241	20.04.	0033	OFS	34°55.00N 026°51.06E		0
		0034-0150	CTD/Ro	34°55.00N 026°51.06E		wc
242		0225-0551	D-MOC	34°58.11N 026°52.02E	35°03.66N 026°47.05E	0-1450
243		0704-0800	CTD/Ro	35°05.55N 026°34.97E		wc
244		1211-1356	ST	34°25.78N 026°11.32E	34°25.98N 026°11.97E	release/ recov. trap
		1435	ST	34°25.78N 026°12.70E		end station
245	20./21.04.	1524-0023	D-MOC	34°22.03N 026°06.54E	34°32.56N 025°48.03E	0-4100
246	21.04.	0149-0408	CTD/Ro	34°28.47N 025°58.60E		wc
		0417-0436	NEU	34°28.48N 025°58.55E	34°28.00N 025°58.96E	0-ca 30 cm
247		0741-0944	CTD/Ro	34°03.04N 026°25.00E		wc

Table 7.4.1: continued

		0820	OFS	34°03.01N 024°95.00E		0
		0951-1010	NEU	34°02.85N 026°24.87E	34°02.38N 026°24.51E	0-ca 30 cm
-		1401	OFS	33°21.56N 026°00.48E		0
248		1452-1631	CTD/Ro	33°14.05N 025°56.10E		wc
		1637-1654	NEU	33°13.93N 025°56.17E	33°13.22N 025°56.12E	0-ca 30 cm
249		1952-2143	CTD/Ro	32°42.94N 025°40.00E		wc
		2055	OFS	32°42.98N 025°40.01E		0
	21./22.04.	2147-0303	D-MOC	32°43.13N 025°39.93E	32°53.96N 025°38.15E	0-2500
		2220-2254	NEU	32°44.19N 025°39.86E	32°45.33N 025°39.73E	0-ca 30 cm
250	22.04.	0630-0810	CTD/Ro	33°29.99N 025°32.00E		wc
		0700	OFS	33°30.00N 025°32.00E		0
		0813-0831	NEU	33°30.03N 02531.99°E	33°30.58N 025°32.17E	0-ca 30 cm
251		1252-1512	CTD/Ro	34°20.01N 025°35.01E		wc
		1312	OFS	34°19.93N 025°35.27E		0
		1515-1524	HN	34°19.63N 025°35.10E		0-ca 30
		1528-1534	HN	34°19.53N 025°35.03E		0-ca 30
252		1718-2200	MOC-10	34°23.03N 025°58.19E	34°26.87N 026°09.20E	1450-2500
253	22./23.04.	2307-0047	MOC-10	34°23.64N 025°59.50E	34°25.16N 026°03.34E	250-600
254	23.04.	0112-0411	CTD/Ro	34°25.51N 026°05.11E		wc
		0530-1207	PP-drifter	34°25.54N 026°05.21E	34°27.12N 026°06.28E	
		0557-1100	MOC-10	34°25.57N 026°05.57E	34°32.37N 026°09.95E	1450-2500
		1209-1217	SD	34°27.15N 026°06.30E		0-36
255		1239-1330	MOC-10	34°28.19N 026°05.77E	34°27.04N 026°07.22E	0-250
256		1442-2400	MOC-10	34°32.73N 026°06.78E	34°14.36N 026°06.09E	3750 - near bottom
		1536-1552	NEU	34°30.91N 026°06.79E	34°30.43N 026°06.79E	0-ca 30 cm
		1553-1610	NEU	34°30.39N 026°06.79E	34°29.95N 026°06.78E	0-ca 30 cm
257	24.04.	0030-0122	MOC-10	34°18.24N 026°06.15E	34°20.29N 026°06.25E	0-250
258		0238-0939	MOC-10	34°32.80N 026°06.84E	34°18.80N 026°06.71E	2500-3750
		0257-0314	NEU	34°32.16N 026°06.80E	34°31.57N 026°06.79E	0-ca 30 cm
		0941-0958	HN	34°18.78N 026°06.71E	34°18.73N 026°06.64E	0-ca 30
259		1032-1333	MOC-10	34°22.78N 026°06.76E	34°28.97N 026°07.09E	600-1450
260		1410-1546	MOC-10	34°26.90N 026°07.08E	34°23.84N 026°07.14E	250-600
261		1635-2325	MOC-10	34°27.05N 026°09.80E	34°21.76N 025°54.29E	2500-3750
		1658-1733	NEU	34°26.75N 026°08.90E	34°26.27N 026°07.48E	0-ca 30 cm
262	25.04	0013-0309	MOC-10	34°24.03N 026°00.10E	34°26.13N 026°06.75E	600-1450
263		0322-1252	ISP+BYP	34°26.20N 026°06.82E		4000-4250
		1259-1435	BYP+GoFo-Sampler	34°26.20N 026°06.82E		0-1000
		1437-1453	BYP	34°26.20N 026°06.81E		0-54
264	25./26.04.	1540-0147	D-MOC	34°28.53N 026°14.41E	34°21.17N 025°51.62E	near bottom
		1855-1912	NEU	34°26.17N 026°07.41E	34°25.95N 026°06.72E	0-ca 30 cm
		2012-2040	HN	34°25.19N 026°04.54E	34°24.83N 026°03.40E	0-ca 30
265	26.04.	0434-0454	CTD/Ro	34°21.19N 025°51.64E		0-150
		0646-1237	PP-drifter	34°25.32N 026°05.02E	34°26.90N 026°04.48E	
		0655-0943	CTD/Ro	34°25.21N 026°04.96E		wc
		1240-1245	SD	34°26.92N 026°04.45E		0-31
266		1341-2345	D-MOC	34°28.24N 026°13.33E	34°20.70N 025°51.23E	0-4250
		1521-1535	NEU	34°27.08N 026°09.96E	34°26.92N 026°09.46E	0-ca 30 cm
		1538-1553	NEU	34°26.89N 026°09.38E	34°26.68N 026°08.83E	0-ca 30 cm
		1906-1932	HN	34°24.15N 026°01.72E	34°23.80N 026°00.75E	0-ca 30
		2144-2201	HN	34°22.17N 025°56.65E	34°22.00N 025°54.97E	0-ca 30
267	27.04.	0144-1105	D-MOC	34°22.89N 025°58.04E	34°35.69N 026°10.56E	1450-4250
		0211-0228	NEU	34°23.22N 025°59.04E	34°23.44N 025°59.62E	0-ca 30 cm
268		1148-1534	D-MOC	34°35.96N 026°10.65E	34°29.10N 026°08.43E	0-1450
269	27./28.04.	1624-0043	D-MOC	34°28.00N 026°12.84E	34°21.30N 025°54.41E	0-4250
	27.04.	1915-1940	HN	34°25.67N 026°06.43E	34°25.51N 026°06.00E	0-ca 30
		2009-2025	NEU	34°25.11N 026°04.83E	34°24.90N 026°04.30E	0-ca 30 cm
		2146-2226	HN	34°23.64N 026°01.28E	34°23.11N 025°59.74E	0-ca 30
270	28.04.	0122-1030	D-MOC	34°23.04N 025°58.12E	34°30.76N 026°18.45E	1450-4250

Table 7.4.1: continued

		0139-0157	NEU	34°23.30N 025°58.88E	34°23.53N 025°54.54E	0-ca 30 cm
		0929-0942	HN	34°29.63N 026°16.01E	34°29.88N 026°16.50E	0-ca 30
		0945-1001	NEU	34°29.94N 026°16.64E	34°30.27N 026°17.36E	0-ca 30 cm
		1032-1052	HN	34°30.88N 026°18.67E	34°31.13N 026°19.11E	0-ca 30
271		1204-2108	D-MOC	34°24.64N 026°12.42E	34°25.50N 025°50.02E	near bottom
		1526-1542	NEU	34°25.13N 026°04.49E	34°25.15N 026°03.88E	0-ca 30 cm
272	28./29.04.	2206-0213	D-MOC	34°25.51N 025°57.41E	34°25.60N 026°07.76E	0-1450
	28.04.	2240-2254	HN	34°25.42N 025°58.91E	34°25.42N 025°59.45E	0-ca 30
	28.04.	2315-2332	NEU	34°25.44N 026°00.31E	34°25.44N 026°00.96E	0-ca 30 cm
273	29.04.	0423-0442	CTD/Ro	34°25.49N 026°05.16E		0-150
		0538-1323	PP-Drifter	34°25.58N 026°05.24E	34°29.43N 026°06.25E	
		0548-0800	CTD/Ro	34°25.51N 026°05.19E		wc
		0826-1220	D-MOC	34°25.56N 026°05.93E	34°29.67N 026°14.36E	0-1450
		1324-1328	SD	34°29.45N 026°06.26E		0-28
		1325-1332	HN	34°29.45N 026°06.26E		0-ca 30
274		1415-2200	D-MOC	34°28.04N 026°12.91E	34°19.54N 025°59.03E	0-4250
		2100-2150	HN	34°21.59N 025°59.33E	34°19.74N 025°59.06E	0-ca 30
275	30.04.	0000-0830	NBT	34°26.50N 025°59.58E	34°21.06N 026°18.67E	0.5-1.5 a.b.
		0032-0049	NEU	34°26.17N 026°01.04E	34°26.00N 026°01.64E	0-ca 30 cm
		0600-0618	NEU	34°22.60N 026°12.86E	34°22.43N 026°13.56E	0-ca 30 cm
		0639-0655	NEU	34°22.21N 026°14.38E	34°22.02N 026°15.08E	0-ca 30 cm
276		0927-1804	NBT	34°28.13N 026°13.24E	34°21.57N 025°54.50E	0.5-1.5 a.b.
		1724-1741	NEU	34°22.13N 025°56.14E	34°21.89N 025°55.44E	0-ca 30 cm
277	30.04./ 01.05.	2031-0552	ISP+BYP	34°26.43N 026°07.86E		2000-4230
278	01.05.	0631-1327	MOC-10	34°28.14N 026°12.82E	34°22.60N 025°57.15E	2500-3750
279		1407-1910	MOC-10	34°23.93N 026°00.95E	34°28.00N 026°12.40E	600-1450
		1439-1456	NEU	34°24.40N 026°02.34E	34°24.62N 026°02.99E	0-ca 30 cm
280	01./02.05.	2030-0102	D-MOC	34°28.30N 026°13.02E	34°24.88N 026°03.15E	0-1450
	01.05.	2140-2155	HN	34°27.66N 026°11.22E	34°27.26N 026°09.96E	0-ca 30
281	02.05.	1050-1150	CTD/Ro	35°10.08N 027°30.00E		wc
		1229-1547	D-MOC	35°13.75N 027°26.92E	35°10.18N 027°19.93E	0-1250
		1244-1300	NEU	35°13.50N 027°26.38E	35°13.15N 027°25.77E	0-ca 30 cm
		1301-1316	NEU	35°13.14N 027°25.74E	35°12.87N 027°25.16E	0-ca 30 cm
		1318-1335	NEU	35°12.81N 027°25.09E	35°12.49N 027°24.49E	0-ca 30 cm
282	02./03.05.	2208-0156	MOC-10	34°28.26N 026°13.19E	34°25.43N 026°04.84E	600-1450
283	03.05.	0249-1130	NBT	34°28.03N 026°12.90E	34°21.55N 025°53.67E	0.5-1.5 a.b.
284		1235-1517	MUC	34°24.88N 026°05.81E		failure
		1532-1807	MUC	34°24.88N 026°05.79E		4263
285		1848-2112	MUC	34°25.90N 026°10.76E		3702
286	04.05.	0000-0844	D-MOC	34°29.72N 026°10.17E	34°15.51N 026°00.06E	near bottom
287		1021-1142	NBT	34°28.12N 026°12.91E	34°28.05N 026°12.35E	winch failure
		1226-1314	HN	34°28.30N 026°13.20E		0-ca 30
		1611-1722	CTD/Ro	34°32.76N 025°48.35E		wc
288	04./05.05.	1919-0422	NBT	34°27.99N 026°12.82E		0.5-1.5 a.b.
	04.05.	2039-2101	HN	34°27.99N 026°12.82E	34°26.68N 026°09.83E	0-ca 30
	04.05.	2105-2122	NEU	34°26.63N 026°08.85E	34°26.44N 026°08.26E	0-ca 30 cm
	05.05.	0023-0040	NEU	34°24.05N 026°01.62E	34°20.46N 025°51.61E	0-ca 30 cm
289		0753-0910	CTD/Ro	34°34.00N 025°04.93E		wc
		0822	OFS	34°34.00N 025°04.96E		0
		0915-0935	NEU	34°34.01N 025°04.81E	34°34.31N 025°03.99E	0-ca 30 cm
290		1249-1458	CTD/Ro	34°40.02N 024°19.98E		wc
		1312	OFS	34°40.02N 024°20.01E		0
		1509-1524	NEU	34°40.07N 024°19.66E	34°40.20N 024°18.92E	0-ca 30 cm
		1526-1541	NEU	34°40.22N 024°18.84E	34°40.34N 024°18.19E	0-ca 30 cm
291		1932-2129	CTD/Ro	34°50.06N 023°25.00E		wc
		1954	OFS	34°50.01N 023°24.99E		0
		2135-2154	NEU	34°49.98N 023°24.87E	34°49.84N 023°24.08E	0-ca 30 cm
292	06.05.	0028-0237	CTD/Ro	34°55.96N 022°49.92E		wc

Table 7.4.1: continued

		0032	OFS	34°55.97N 022°49.92E		0
		0243-0300	NEU	34°56.03N 022°49.78E	34°56.11N 022°49.08E	0-ca 30 cm
293		0911-1133	CTD/Ro	35°13.76N 021°28.70E		wc
		1106	OFS	35°13.76N 021°28.73E		0
		1145-1545	D-MOC	35°13.77N 021°28.56E	35°15.67N 021°18.68E	0-1450
		1227-1243	NEU	35°14.36N 021°25.24E	35°14.20N 021°26.01E	0-ca 30 cm
		1245-1302	NEU	35°14.22N 021°25.90E	35°14.36N 021°25.24E	0-ca 30 cm
		1305-1314	HN	35°14.38N 021°25.11E	35°14.44N 021°24.78E	0-ca 30
		1315-1324	HN	35°14.46N 021°24.70E	35°14.52N 021°24.39E	0-ca 30
294		1649-1911	MUC	35°14.00N 021°28.53E		3457
	06./07.5.	1956-0430	ISP+BYP	35°13.74N 021°28.69E		2250-3490
	07.5.	0442-0537	CTD/Ro	35°13.75N 021°28.66E		0-250
		0614-1323	PP-Drifter	35°13.86N 021°28.46E	35°19.56N 021°13.65E	
		0642-0859	CTD/Ro	35°13.77N 021°28.76E		wc
		0914-1323	BYP	35°13.77N 021°28.65E		near bottom
		1837-1842	Ro	35°13.77N 021°28.67E		30; test
		1848-2115	Ro	35°13.76N 021°28.69E		near bottom
		2121-2347	BYP	35°13.75N 021°28.72E		100-1840
		2350-2400	BYP	35°13.76N 021°28.74E		10
	08.5.	0006-0906	D-MOC	35°13.76N 021°28.88E	35°16.58N 021°51.15E	600-3250
295		1655-1846	CTD/Ro	34°25.00N 020°20.15E		wc
		1736	OFS	34°24.99N 020°20.18E		0
		1851-1907	NEU	34°25.00N 020°20.00E	34°24.48N 020°19.45E	0-ca 30 cm
296	09.5.	0045-0820	D-MOC	33°41.31N 019°16.58E	33°31.80N 019°02.67E	600-3250
		0059-0114	NEU	33°40.96N 019°16.06E	33°40.56N 019°15.49E	0-ca 30 cm
		0119-0137	NEU	33°40.44N 019°15.36E	33°40.06N 019°14.88E	0-ca 30 cm
		0405-0430	HN	33°36.99N 019°10.60E	33°36.51N 019°09.88E	0-ca 30
297		0905-1254	D-MOC	33°35.08N 019°07.46E	33°30.14N 019°00.35E	0-1450
		0914-0931	NEU	33°34.84N 019°07.12E	33°34.47N 019°06.59E	0-ca 30 cm
		1026-1043	NEU	33°33.37N 019°04.91E	33°33.01N 019°04.40E	0-ca 30 cm
		1040-1103	HN	33°33.04N 019°04.43E	33°32.61N 019°03.79E	0-ca 30
		1212-1218	HN	33°31.01N 019°01.64E	33°30.86N 019°01.43E	0-ca 30
		1220-1227	HN	33°30.83N 019°01.38E	33°30.67N 019°01.14E	0-ca 30
298		1338-1551	D-MOC	33°33.18N 019°04.54E	33°30.28N 019°00.45E	0-750
299		1605-1809	CTD/Ro	33°30.02N 019°00.05E		wc
		1621	OFS	33°30.02N 019°00.03E		0
300	09./10.5.	2317-0156	CTD/Ro	34°30.00N 019°00.03E		wc
	09.05.	2330	OFS	34°30.02N 019°00.03E		0
	10.5.	0202-0217	NEU	34°30.12N 018°59.99E	34°30.82N 018°59.97E	0-ca 30 cm
301		0531-0800	CTD/Ro	35°09.05N 019°00.00E		wc
		0804-0822	NEU	35°09.18N 019°00.04E	35°09.99N 018°59.98E	0-ca 30 cm
302		1213-1435	CTD/Ro	35°50.04N 019°00.02E		wc
		1435	OFS	35°49.97N 018°59.98E		0
		1440-1458	NEU	35°49.90N 018°59.93E	35°49.27N 018°59.03E	0-ca 30 cm
-		1855	OFS	35°17.45N 018°14.73E		0
303		2302	OFS	34°44.91N 017°29.91E		0
	10./11.5.	2303-0059	CTD/Ro	34°44.96N 017°29.95E		wc
	11.5.	0107-0124	NEU	34°45.09N 017°29.83E	34°45.21N 017°28.86E	0-ca 30 cm
304		0531-0918	D-MOC	34°53.88N 016°29.31E	34°55.43N 016°20.17E	0-1450
		0658-0732	NEU	34°54.43N 016°25.76E	34°54.61N 016°24.45E	0-ca 30 cm
		0820-0837	HN	34°55.00N 016°22.20E	34°55.08N 016°21.75E	0-ca 30
		0845-0858	HN	34°55.13N 016°21.41E	34°55.23N 016°20.91E	0-ca 30
305		1003-1053	CTD/Ro	34°56.08N 016°14.85E		wc
		1003	OFS	34°56.08N 016°14.85E		0
306		1626-1710	CTD/Ro	34°56.10N 016°14.98E		wc
		1702	OFS	34°59.98N 016°60.00E		0
		1714-1747	NEU	35°00.10N 014°59.98E	35°00.85N 014°58.72E	0-ca 30 cm
-		2217	OFS	35°30.26N 013°59.93E		0
307	12.05.	0305-0422	CTD/Ro	35°59.94N 012°59.87E		wc
		0328	OFS	35°59.94N 012°59.92E		0

		0427-0459	NEU	35°59.96N 012°59.66E	36°00.99N 012°58.72E	0-ca 30 cm
-		0956	OFS	36°47.17N 012°16.34E		0
308		1508-1555	CTD/Ro	37°34.02N 011°31.98E		wc
		1517	OFS	37°34.03N 011°32.01E		0
		1601-1633	NEU	37°34.08N 011°31.90E	37°35.09N 011°31.26E	0-ca 30 cm
-		2037	OFS	38°17.00N 011°01.10E		0
309	12./13.05.	2347-0440	D-MOC	38°49.61N 010°37.63E	38°58.74N 010°30.95E	0-1850
	13.05.	0056-0111	NEU	38°51.88N 010°35.95E	38°52.32N 010°35.62E	0-ca 30 cm
		0114-0132	NEU	38°52.40N 010°35.56E	38°52.93N 010°35.18E	0-ca 30 cm
310		0505-0700	CTD/Ro	39°00.04N 010°30.00E		wc
	13.05.	0612	OFS	38°59.09N 010°30.00E		0

8 Concluding Remarks

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9 References

- AKSU, A.E., R.N. HISCOTT, and D. YASAR (1999). Oscillating Quaternary water levels of the Marmara Sea and vigorous outflow into the Aegean Sea from the Marmara Sea-Black Sea drainage corridor. *Mar. Geol.*, 153, 275-302.
- ALAVI, S.N. (1988). Late Holocene deep-sea benthic foraminifera from the Sea of Marmara. *Mar. Micropaleontol.*, 13, 213-237.
- ALLDREDGE, A. L. and N.W. SILVER (1988). Characteristics, dynamics and significance of marine snow. *Prog. Oceanog.*, 20, 41-82.
- AMANN, R.I., W. LUDWIG and K.-H. SCHLEIFER (1995). Phylogenetic identification and in situ detection of individual microbial cells without cultivation. *Microbiol. Rev.*, 59, 143-169.
- ARNDT, H. (1990). Das pelagische "microbial web" in einem eutrophen Flachsee: Jahreszeitliche Unterschiede in der Wechselwirkung zwischen Proto- und Metazooplankton.- Deutsche Gesellschaft für Limnologie, Erweiterte Zusammenfassung der Jahrestagung in Essen, 112-116.
- AZAM, F., T. FENCHEL, J.G. FIELD, J.S. GRAY, L.-A. MEYER-REIL and T.F. THINGSTAD (1983). The ecological role of water-column microbes in the sea. *Mar. Ecol. Prog. Ser.*, 10, 257-263.
- BARKA, A.A. and KADINSKY-CADE, K. (1988). Strike-slip Fault Geometry in Turkey and its influence on earthquake activity. *Tectonics*, 7, 663-684.
- BAU, M. and DULSKI, P. (1996). Anthropogenic origin of positive gadolinium anomalies in river waters. *Earth and Planet. Sci. Lett.*, 143, 245-255
- BEHR, H. D. (1990). Radiation Balance at the Sea Surface in the Atlantic Ocean Region between 40°S and 40°N, *J. Geophys. Res.*, D95, 20633-20640.
- BEHR, H. D. (1992). Net total and UV-B Radiation at the Sea Surface, *Journal of Atmospheric Chemistry*, 15, 299-314.
- BELL, R.T. and A.J. KUPARINEN (1984). Assessing phytoplankton and bacterioplankton production during early spring in lake Erken, Sweden. *Appl. Environ. Microbiol.*, 48, 1221-1230.
- BENGAL (1999). High resolution temporal and spatial study of the BENTHIC biology and Geochemistry of a north-eastern Atlantic abyssal Locality (BENGAL). Contract No MAS3 - CT950018. 1 February 1996-31 January 1999. Final Report.
- BLACKBURN, T. H. B. LUND, Aa., KORM, M. D. (1988). C- and N-mineralization in the sediments of earthen marine fishponds. *Mar. Ecol. Progr. Ser.*, 44, 221-227.
- BOCHDANSKY, A.B. and G. J. HERNDL (1992a). Ecology of amorphous aggregations (marine snow) in the Northern Adriatic Sea: III. Zooplankton interactions with marine snow.- *Mar. Ecol. Prog. Ser.*, 87, 135-146.
- BOCHDANSKY, A.B. and G. J. HERNDL (1992b). Ecology of amorphous aggregations (marine snow) in the Northern Adriatic Sea: V. Role of zooplankton fecal pellets in marine snow.- *Mar. Ecol. Prog. Ser.*, 89, 297-303.
- BOETIUS, A., S. SCHEIBE, A. TSELEPIDES, and H. THIEL (1996). Microbial biomass and activities in deep-sea sediments of the Eastern Mediterranean: trenches are benthic hotspots. *Deep-Sea Res.*, I, 43, 1439-1460.
- BØRSHEIM, K.Y. and G. BRATBAK (1987). Cell volume to carbon conversion factor for a bacterivorous *Monas* sp. enriched from seawater. *Mar. Ecol. Prog. Ser.*, 36, 171-175.
- BOSSELMANN, S. and B. RIEMANN (1986). Zooplankton. In: RIEMANN, B. and M. SONDERGAARD, (eds.). *Carbondynamics in eutrophic temperate lakes*. Elsevier, 199-236.
- CAGATAY, M.N., GÖRÜR, N., ALPAR, B., SAATCILAR, R. AKKÖK, R. SAKINÇ, M. YUCE, H., YALTIRAK, C. and KUSCU, I. (1998). Geological evolution of the Gulf of saros. *Geo-Marine Letters*, 18, 1-9.
- CAGATAY, M.N., GÖRÜR, N., ALGAN, O., EASTOE, C., TCHAPALYGA, A., ONGAN, D., KUHN, T., and KUSCU, I.: Late glacial-Holocene palaeoceanography of the Sea of Marmara: timing of the last connections with the Mediterranean and the Black Sea. *Marine Geology* (submitted).
- CARON, D.A. (1991). Evolving role of Protozoa in aquatic nutrient cycles. In: Reid, P.C., C.M. Turley and P.H. Burkill (eds.). *Protozoa and their role in marine processes*. Springer-Verlag, Berlin, Heidelberg. NATO/ASI Series G, *Ecological Science*, 25, 387-415.
- CARON, D.A., DAVIS, P.G., MADIN, L.P. and SIEBURTH, Y.McN. (1986). Enrichment of microbial populations in macroaggregates (marine snow) from surface water of the North Atlantic.- *Journal of Marine Research*, 44, 543-565.
- CARPENTER, J.H. (1965). The Chesapeake Bay Institute technique for the Winkler dissolved oxygen method. *Limnol. Oceanogr.*, 10, 141-143.

- CUSHING, D.H., G.F. HUMPRHEY, K. BANSE and T. LAEVASTU (1958). Report of the Committee on Terms and Equivalents.- In: Conseil permanent International Mer (Ed. P.-V. Rapports), 144, 15-16.
- DEWEY, J.F. and SENGÖR, A.M.C. (1979). Aegean and surrounding regions: complex multiplate and continuum tectonics in a convergent zone. *Geol. Soc. Am. Bull.*, Part I, 90, 84-92.
- DULSKI, P. (1994). Interferences of oxide, hydroxide and chloride analyte species in the determination of rare earth elements in geological samples by inductively coupled plasma-mass spectrometry. *Fresenius' Journal of Analytical Chemistry*, 350, 194-203.
- EDER, W., and HUBER, R. (1999). Recovery of novel procaryotic rRNA sequences from low-temperature, saline brine sediments of Kebrit Deep, Red Sea. *Meeresforschung mit FS Sonne, Statusseminar 10.-12.03.99 in Freiberg, Bundesministerium für Bildung und Forschung, Rostock-Warnemünde, Germany.*
- EDER, W., LUDWIG, W., and HUBER, R. (1999). Novel 16S rRNA gene sequences retrieved from highly saline brine sediments of Kebrit Deep, Red Sea. *Arch. Microbiol.*, 172, 213-218.
- EIE (Elektrik Isleri Etud Idaresi Genel Mudurlugu) (1993). Sediment data and sediment transport amount for Surface Waters in Turkey. Publication No. 93-59, 615 pp.
- ENTCH B., BOTO, K. G., SIM, R. G., and WELLINGTON, J. T. (1983). Phosphorous and nitrogen in coral reef sediments. *Limnol. Oceanogr.* 28, 465-467.
- ERICSON, D. B., and WOLLIN, G. (1968). Pleistocene climates and chronology in deep-sea sediments. *Science*, 162, 1227-1234.
- FABER, E., BOTZ, R., POGGENBURG, J. SCHMIDT, M., STOFFERS, P., and HARTMANN, M. (1998). Methane in Red Sea brines. *Organic Geochemistry* 29, 363-379.
- FUENTES, A, and ESPINO, L. (1990). Metabolism as determination of nutrient exchange in organic-rich sediments of a coastal lagoon. *Ciencias Marinas*, 16(3), 45-62.
- GOCKE, K. and R. KOPPE (1994). Abundance and Secondary Production of Bacteria in an Extreme Oligotrophic Marine Environment.- In: HIEKE, W., P. HALBACH, M. TÜRKAY and H. WEIKERT, (eds.). *Mittelmeer 1993. METEOR-Berichte 94-3, Leitstelle METEOR, Universität Hamburg*, 89-91.
- GOODAY, A.J. and C.M TURLEY (1990). Response by benthic organisms to input of organic material to the ocean floor. *Phil. trans. R. Soc. Lond.*, 331, 119-138.
- GÖRÜR, N., CAGATAY, M.N., SAKINÇ, M., SÜMENGİN, M., GENTÜRK, K., YALTIRAK, C. and TCHAPALYGA, A. (1997). Origin of the Sea of Marmara from Neogene to Quaternary paleogeographic evolution of its frame. *International Geology Review*, 39, 342-352.
- GRAHAM, G., and MAZZULLO, J. (1988). *Handbook for Shipboard Sedimentologists*. ODP Technical Note Nr. 9.
- GRASSHOFF, K., EHRHARDT, M., and KREMLING, K. (1983). *Methods of Seawater Analysis*. Verlag Chemie, Weinheim, 419 pp.
- HALBACH, P., KUHN, T., SCHMIEDL, G., SEIFERT, R., PEKDEGER, A. und MOCHE, R. (1999). Untersuchung des Feststoff- und Fluid-Haushalts im tiefen Marmarameer sowie der regionalen quartären paläozeanographischen Entwicklung. *Kurzbericht zur Forschungsfahrt M 44/1. FU Berlin*, 22 S.
- HARTMANN, M., SCHOLTEN, J., STOFFERS, P., and WEHNER, F. (1998). Hydrographic structure of brine-filled deeps in the Red Sea – new results from the Shaban, Kebrit, Atlantis II, and Discovery Deep. *Marine Geology*, 144, 311-330.
- HAUSMANN, K., N. HÜLSEMANN and S. SCHADE (1994). Protozoology.- In: HIEKE, W., P. HALBACH, M. TÜRKAY and H. WEIKERT, (eds.). *Mittelmeer 1993. METEOR-Berichte 94-3, Leitstelle METEOR, Universität Hamburg*, 46-47.
- HAUSMANN, K., H. ARNDT and M. WOLF (1999). Protozoology. In: HIEKE, W., Ch. HEMLEBEN, P. LINKE, M. TÜRKAY and H. WEIKERT (eds.). *Mittelmeer 1997/98, Cruise No. 40, 28 October 1997 - 10 February 1998. METEOR-Berichte, Universität Hamburg*, 99-2, 117-119.
- HEMLEBEN, C., MEISCHNER, D., ZAHN, R., ALMOGI-LABIN, A., ERLKENKUSER, H., and HILLER, B. (1996). Three hundred eighty thousand year long stable isotope and faunal records from the Red Sea: Influence of global sea level change on hydrography. *Paleoceanography*, 11, 147-156.
- HERNDL, G.J. (1988). Ecology of amorphous aggregations (marine snow) in the Northern Adriatic Sea. II. Microbial density and activity in marine snow and its implication to overall pelagic processes.- *Mar. Ecol. Prog. Ser.*, 48, 265-275.
- HERNDL, G.J. (1992). Marine snow in the Northern Adriatic Sea: possible causes and consequences for a shallow ecosystem. *Mar. Microb. Food Webs*, 6, 149-172.

- HERNDL, G.J. and P. PEDUZZI (1988). Ecology of amorphous aggregations (marine snow) in the Northern Adriatic Sea: I. General considerations. *Mar. Ecol.*, 9, 79-90.
- HUBER, R. (1999). Die Laserpinzette als Basis für Einzelzellkultivierung. *Biospektrum*, 4, 289-291.
- IOC Manuals and Guides (1983). Chemical methods for use in marine environmental monitoring, UNESCO, 12, pp. 53.
- JACOBS, J. (1974). Quantitative Measurement of Food Selection. *Oecologia*, 31, 420-426.
- KARSTEN, G. and J.F. IMHOFF (1999). Analysis of the microbial diversity in the oligotrophic Eastern Mediterranean Sea by fluorescence-in-situ-hybridization. Annual Meeting of the "Vereinigung für Allgemeine und Angewandte Mikrobiologie", 7.3.-10.3.99, Göttingen, Germany. Poster abstract No. P-K 17, *Biospektrum Sonderdruck*, p. 104.
- KARSTEN, G., J. SÜLING, F. LAPPE and C. BEGLER. (1999). Abundance, activity and diversity of bacteria in the extreme oligotrophic Eastern Mediterranean. In: W. HIEKE, CH. HEMLEBEN, P. LINKE, M. TÜRKAY and H. WEIKERT (eds.). *Mittelmeer 1997/98, Cruise No. 40, 28 October 1997 - 10 February 1998. METEOR-Berichte, Universität Hamburg, 99-2, 132-136.*
- KELLER, J., RYAN, W.B.F., NINKOVICH, D. and ALTHERR, R. (1978). Explosive volcanic activity in the Mediterranean over the past 200,000 yr as recorded in deep-sea sediments. *Geol. Soc. Am. bull.*, v89, p 591-606.
- KLEIN, B., W. ROETHER, B.B. MANCA, D. BREGANT, V. BEITZEL, V. KOVACEVIC and A. LUCHETTA (1999). The large deep water transient in the Eastern Mediterranean. *Deep-Sea Res. I*, 46, 371-414.
- KOPPELMANN, R. and H. WEIKERT (1999). Temporal changes of deep-sea mesozooplankton abundance in the temperate NE Atlantic and estimates of the carbon budget. *Mar. Ecol. Prog. Ser.*, 179, 27-40.
- KROM, M.D., N. KRESS, S. BRENNER and L.I. GORDON (1991). Phosphorus limitation of primary productivity in the E. Mediterranean Sea. *Limnol. Oceanogr.*, 36, 424-432.
- KROM, M.D., S. BRENNER, N. KRESS, A. NEORI and L.I. GORDON (1993). Nutrient distributions during an annual cycle across a warm-core eddy from the eastern Mediterranean Sea. *Deep-Sea Res.*, 40, 805-825.
- LANDRY, M.J. (1994). Methods and controls for measuring the grazing impact of planktonic protists. *Mar. Microb. Food Webs*, 8, 37-57.
- LANDRY, M.R. and HASSETT, R.P. (1982). Estimating the grazing impact of marine microzooplankton. *Mar. Biol.*, 67, 283-288.
- LANDRY, M.R., KIRSSTEIN, J. and CONSTANTINO, L. (1995) A refined dilution technique for measuring the community grazing impact of microzooplankton with experimental tests in the Central Equatorial Pacific. *Mar. Ecol. Prog. Ser.*, 120, 53-63.
- LAYBOURN-PARRY, J. (1984). *A Functional Biology of Free-Living Protozoa*. Croom Helm, Australia.
- LI, H., VELDHUIS, M.J.W. and POST, A.F. (1998). Alkaline phosphatase activities among planktonic communities in the northern Red Sea. *Mar. Ecol. Prog. Series*.
- LINDELL, D. and POST, A.F. (1995). Deep mixing triggers a succession among ultraphytoplankton in the Gulf of Aqaba (Eilat), Red Sea. *Limnol. Oceanogr.*, 40, 1130-1140.
- LINDELL, D., PADAN, E. and POST, A.F. (1998). ntcA expression and nitrite uptake in the marine *Synechococcus* sp. strain WH7803. *J. Bacteriol.*, 180, 1878-1886.
- LENZ, J., H. AUF DEM VENNE, A. DETMER, P. FRITSCH, U. JUNGHANS, I. KIRSCH, T. LUETKEBOHLE and R. TURNEWITSCH (1994). Primary Production and Microbial Loop in the Mixed Surface Layer.- In: HIEKE, W., P. HALBACH, M. TÜRKAY and H. WEIKERT, (eds.). *Mittelmeer 1993. METEOR-Berichte 94-3, Leitstelle METEOR, Universität Hamburg, 81-89.*
- LOCHTE, K. and C.M TURLEY (1988). Bacteria and cyanobacteria associated with phytodetritus in the deep sea. *Nature*, 333, 67-69.
- LU, C.C., A. GUERRA, F. PALUMBO and W.C. SUMMERS (1992). Order Sepioidea Naef, 1916. In: SWEENEY, M.J., C.F.E. ROPER, K.M. MANGOLD, M.R. CLARKE, and S. VON BOLETZKY (eds.). "Larval" and juvenile cephalopods: a manual for their identification. *Smithson. Contrib. Zool.*, 513, 21-36.
- LYNN, D.H. (1992). Protargol staining, B-4.1-C-4.8.- In: Lee, J.J. and A.T. Saldo (eds.). *Protocols in Protozoology*. Published by the Society of Protozoologists.
- MALANOTTE-RIZZOLI, P. and A. HECHT (1988). Large-scale properties of the eastern Mediterranean: a review. *Oceanologica Acta*, 11, 323-335.

- MALANOTTE-RIZZOLI, P., B.B. MANCA., M. RIBERA D'ALCALÀ, A. THEOCHARIS, S. BRENNER, G. BUDILLON and E. OZSOY (1999). The Eastern Mediterranean in the 80°S and in the 90°S: the big transition in the intermediate and deep circulation. *Dyn. Atm. and Oceans*, (accepted).
- McKENZIE, D.P., (1972). Active tectonics of the Mediterranean region, *Geophys. J.R. Astr. Soc.*, 30, 109-185.
- MIX, A. C., RUGH, W., PISIAS, N. G., and VEIRS, S. (1992). Color reflectance spectroscopy: A tool for rapid characterization of deep-sea sediment. In "Proceedings of the Ocean Drilling Project, Initial Report 138." (I. Mayer, N. G. Pisias, and T. e. a. Janecek, Eds.).
- MULINEAUX, L.S., and G.P. LOHMANN (1981). Late Quaternary stagnations and recirculation of the eastern Mediterranean: Changes in the deep water recorded by fossil benthic foraminifera. *J. Foraminiferal Res.*, 11, 20-39.
- MÜLLER-NICKLAS, G., S. SCHUSTER, E. KALTENBÖCK and G. HERNDL (1994). Organic content and bacteria metabolism in amorphous aggregations of the northern Adriatic Sea. *Limnol. Oceanogr.*, 39, 58-68.
- MURRAY, J.W. (1991). Ecology and palaeoecology of benthic foraminifera. Longman Scientific & Technical, London, 397 pp.
- MUYZER, G. and K. SMALLA (1998). Application of denaturing gradient gel electrophoresis (DGGE) and temperature gradient gel electrophoresis (TGGE) in microbial ecology. *Antonie van Leeuwenhoek* 73, 127-141.
- NESIS, K.N. (1982). Abridged key to the cephalopod mollusks of the World Ocean. In BURGESS, L.A. (ed.). *Cephalopods of the world. Light and Food Industry Publishing House, Moscow*: 385+ii pp (In Russian.). Translated into English by LEVITOV, B.S. 1987. T. F. H. Publications, Neptune City: 351 pp.
- NIEWÖHNER, C., HENSEN, C., KASTEN, S., ZABEL, M., and SCHULZ, H.D. (1998). Deep sulfate reduction completely mediated by anaerobic methane oxidation in sediments of the upwelling area off Namibia. *Geochim. Cosmochim. Acta*, 62, 455-464.
- NIXON, S. W., KELLY, J. R., PURNAS, B. N., OVIATTE, C. A., and HALE, S. S. (1980). Phosphorus regeneration and the metabolism of coastal marine bottom communities. In: K.R. TENORE and B.C COULL (eds). *Marine Benthic Dynamics*, University of South Carolina Press, Columbia, pp. 219-242.
- OKAY, A.I., DEMIRBAG, E., KURT, H., OKAY, N. and KUSCU, I. (1999). An active, deep marine strike-slip basin along the north Anatolian Fault in Turkey. *Tectonics*, 18, 129-147.
- OUVERNEY, C. C. and J.A. FUHRMAN (1997). Increase in fluorescence intensity of 16S rRNA in situ hybridization in natural samples treated with chloramphenicol. *Appl. Environ. Microbiol.*, 63, 2735-2740.
- PADISÁK, J. and R. ADRIAN (1999). In: VON TÜMLING, W. and G. FRIEDRICH, (eds.). *Biovolume. Biologische Gewässeruntersuchung, Methoden der Biologischen Wasseruntersuchung*, 2, Gustav Fischer Verlag, 334-368.
- PÄTZOLD, J., and cruise participants (2000). Report and preliminary results of METEOR cruise M44/3, Aqaba (Jordan)-Safaga (Egypt)-Dubá (Saudi Arabia)-Suez (Egypt)-Haifa (Israel), 12.03. - 07.04.99. *Berichte aus dem Fachbereich Geowissenschaften der Universität Bremen* 149, pp. 135.
- PETERS, R.H. (1984). Methods for the study of feeding, grazing and assimilation by zooplankton. In: DOWNING, J.A. and F.H. RIGLER (eds.). *A Manual on Methods for the Assessment of Secondary Production in Freshwaters*. Blackwell, Oxford IBP Handbook, 17, 336-412.
- POEM Group, The (1992). General circulation of the Eastern Mediterranean, *Earth-Science Rev.*, 32, 285-239.
- POMEROY, L.R. (1974). The ocean's food web, a changing paradigm. *Bioscience*, 24, 499-504.
- POR, F. D. (1978). *Lessepsian migration*. Ecological Studies 23, Springer, Heidelberg.
- PORTER, K.G. and Y.S. FEIG (1980). The use of DAPI for identifying and counting aquatic microflora.- *Limnol. Oceanogr.*, 25, 943-948.
- REISS, Z., and HOTTINGER, L. (1984). "The Gulf of Aqaba (Elat)." Springer-Verlag, Berlin, 330 p.
- REISS, Z., LUZ, B., ALMOGI-LABIN, A., HALICZ, E., WINTER, A., and WOLF, M. (1980). Late quaternary paleoceanography of the Gulf of Aqaba (Elat), Red Sea. *Quaternary Research* 14, 294-308.
- RICKARD, D. (1997). Kinetics of pyrite formation by the H₂S oxidation of iron (II) monosulfide in aqueous solutions between 25 and 125 °C: The rate equation. *Geochimica et Cosmochimica Acta*, 61, 115-134
- ROETHER, W., B.B. MANCA, B. KLEIN, D. BREGANT, D. GEORGOPOULOS, V. BEITZEL, V. KOVACEVIC, and A. LUCHETTA (1996). Recent changes in the Eastern Mediterranean deep water. *Science*, 271, 333-335.
- ROPER, C.F.E. (1974). Vertical and seasonal distribution of pelagic cephalopods in the Mediterranean. Preliminary report. *Bull. Am. Malacol. Union*, May 1974, 27-30.
- ROPER, C.F.E. and YOUNG, R.E. (1975). Vertical distribution of pelagic cephalopods. *Smithson. Contrib. Zool.*, 209, 51 pp.

- ROUBAUD, C., CHARPY, L., and SARAZIN, G. (1996). Diffusional nutrient fluxes at the sediment-water interface and organic matter mineralization in an atoll lagoon (Tihehu, Tuamotu archipelago, French Polynesia). *Mar. Ecol. Progr. Ser.*, 132, 181-190.
- SAROGLU, F. (1988). Age and Offset of the North Anatolian fault. In: Melih Tokay Symposium: Spec. Publ. of the Middle East Technical University, Ankara, p. 65-79.
- SCHLÜTER, M. (1990). Zur Frühdiagenese von organischem Kohlenstoff und Opal in Sedimenten des südlichen und östlichen Wedellmeeres. *Geochemische Analyse und Modellierung. Ber. Polarforsch.*, 73, 156 pp.
- SCHMIEDL, G., C. HEMLEBEN, J. KELLER, and M. SEGL (1998). Impact of climatic changes on the benthic foraminiferal fauna in the Ionian Sea during the last 330,000 years. *Paleoceanography*, 13, 447-458.
- SEIFERT, R., DELLING, N., RICHNOW, H. H., KEMPE, S., HEFTER, J., and MICHAELIS, W. (1999). Ethylene and methane in the upper water column of the subtropical Atlantic. *Biogeochemistry* 44, 73-91.
- SENGÖR, A.M.C. (1979). The North Anatolian Transform Fault: its age, offset and tectonic significance. *J. Geol. Soc. London*, 136, 269-282.
- SENGÖR, A.M.C., GÖRÜR, N. and SAROGLU, F. (1985). Strike slip faulting and related basin formation in zones of tectonic escape. In: Turkey as a case study. In: Strike-slip Deformation, Basin Formation and Sedimentation. Biddle, K.T. and Christie-Blick, N. Soc. Econ. Palent. Min. Spec. Publ., 37, 227-264.
- SIMON, M. and M.M. TILZER (1987). Bacterial response to seasonal changes in primary production and phytoplankton biomass in Lake Constance. *J. Plankton Res.*, 9, 535-553.
- SIMON, M. and F. AZAM (1989). Protein content and protein synthesis rates of planktonic bacteria. *Mar. Ecol. Progr. Ser.*, 51, 201-213.
- SMITH, A.D., TAYMAZ, T., OKTAY, F., YUCE, H., ALPAR, B., BASARAN, H., JACKSON, J.A., KARA, S. and SIMSEK, M. (1995). High resolution seismic profiling in the Sea of Marmara (northwest Turkey). Late Quaternary sedimentation and sea level changes. *Geol. Soc. Am. Bull.*, 107, 923-936.
- SPIEB, V. (1993). Digitale Sedimentechographie - Neue Wege zu einer hochauflösenden Akustostratigraphie. *Berichte, Fachbereich Geowissenschaften, Universität Bremen* 35, 199 p.
- STOFFERS, P., and cruise participants (1998). Cruise report SONNE 121, Red Sea. Hydrography, hydrothermalism, and palaeoceanography in the Red Sea. Nr. 88. Geologisch-Paläontologisches Institut der Universität Kiel, Kiel, Germany.
- STRAUB, C. and KAHLE, H.-G. (1997). Recent crustal deformation and strain accumulation in the Marmara Sea region, NW Anatolia, inferred from repeated GPS measurements, in Active tectonics of Northwest Anatolia. In: The Marmara Poly-project. Schindler, C. and Pfister, M. (eds.), Hochschulverlag AG an der ETH, Zürich, pp. 417-447.
- STRICKLAND, J., and PARSONS, T. (1968). A particular hand book of sea water analysis. pp. 67-311.
- SUZUKI, N. and K. KATO (1957). Studies on suspended material. Marine snow in the sea. 1. Sources of marine snow. *Bull. Fac. Fish. Hokkaido Univ.*, 4, 132-135.
- TAYMAZ, T., JACKSON, J.A. and MCKENZIE, D. (1991). Active Tectonics of the North and central Aegean Sea. *Geophys. J. Int.*, 106, 433-490.
- TURLEY, C., R.C. NEWELL and D.B. ROBINS (1986). Survival strategies of two small marine ciliates and their role in regulating bacterial community structure under experimental conditions. *Mar. Ecol. Progr. Ser.*, 33, 57-70.
- UNESCO (1983). Algorithm for the computation of the standard properties of seawater. *Unesco TP in Marine Science* 44.
- UTERMÖHL, H. (1958). Zur Vervollkommnung der quantitativen Phytoplankton-Methodik.- *Internat. Verein. Limnol.*, 9, 1-39.
- VERITY, P.G. (1991). Feeding in planktonic protozoans: Evidence for non-random acquisition of prey. *J. Protozool.*, 83, 69-76.
- VOSS, N.A., S.J. STEPHEN and Zh. DONG (1992). Family Cranchiidae Prosch, 1849. In: SWEENEY, M.J., C.F.E. ROPER, K.M. MANGOLD, M.R. CLARKE, and S. VON BOLETZKY (eds.). "Larval" and juvenile cephalopods: a manual for their identification. *Smithson. Contrib. Zool.*, 513, 187-210.
- WEIKERT, H. (1990). A proposed vertical distribution pattern of micronekton in the deep Levantine Sea, Eastern Mediterranean, and its applicability to the Red Sea. *Bull. Inst. OcÉanogr. Monaco*, no spécial, 7, 39-50.

- WEIKERT, H. (1994). Structure and ecology of mesozooplankton and micronekton. In: HIEKE, W., P. HALBACH, M. TÜRKAY and H. WEIKERT (eds.). *Mittelmeer 1993, Cruise No. 25, 12 May - 20 August 1993*. METEOR-Berichte, Universität Hamburg, 94-3, 72-76.
- WEIKERT, H. (1995). Strong variability of bathypelagic zooplankton at a site in the Levantine Sea - a signal of seasonality in a low-latitude deep-sea? *Rapp. Comm. int. Mer Médit.*, 34, 218.
- WEIKERT, H., B. CHRISTIANSEN and L. NEUGEBOHRN (1999). Zooplankton studies in the deep Eastern Mediterranean Sea. Temporal changes in deep-sea zooplankton. In: HIEKE, W., CH. HEMLEBEN, P. LINKE, M. TÜRKAY and H. WEIKERT (eds.). *Mittelmeer 1997/98, Cruise No. 40, 28 October 1997 - 10 February 1998*. METEOR-Berichte, Universität Hamburg, 99-2, 145-147.
- WIEBE, P.H., A.W. MORTON, A.M. BRADLEY, R.H. BACKUS, J.E. CRADDOCK, V. BARBER, T.J. COWLES and G.R. FLIERL (1985). New developments in the MOCNESS, an apparatus for sampling zooplankton and micronekton. *Mar. Biol.*, 60, 179-187.
- WONG, H.K., LUDMAN, T., ULUG, A. and GORUR, N. (1995). The Sea of Marmara: a plate boundary sea in an escape tectonic regime. *Tectonophysics*, 244, 231-250.
- WÖRNER, U., H. ZIMMERMANN-TIMM and H. KAUSCH (submitted). Succession of bacteria and protists on laboratory-made aggregates during winter and spring. *Mirob. Ecol.*
- YAHIEL, G., FABRICIUS, K., POST, A.F., MARIE, D., VAULOT, D. and GENIN, A. (1998). Phytoplankton grazing near coral reefs. *Limnol. Oceanogr.*, 43, 551-563.
- YOUNG, R.E. (15.03.1998). Enoploteuthidae Pfeffer, 1900. In: YOUNG, R.E., M. VECCHIONE and K.M. MANGOLD (eds.). *The tree of life – Cephalopoda*. Internet: <http://www.soest.hawaii.edu/tree/cephalopoda/cephalopoda.html>
- YOUNG, R.E., K.M. MANGOLD and M. VECCHIONE (1992). The enoploteuthid group of families. In: SWEENEY, M.J., C.F.E. ROPER, K.M. MANGOLD, M.R. CLARKE, and S. VON BOLETZKY (eds.). "Larval" and juvenile cephalopods: a manual for their identification. *Smithson. Contrib. Zool.*, 513, 55-66.
- YOUNG, R.E., K.M. MANGOLD and M. VECCHIONE (15.03.1998). Pyroteuthidae Pfeffer, 1912. In: YOUNG, R.E., M. VECCHIONE and K.M. MANGOLD (eds.). *The tree of life – Cephalopoda*. Internet: <http://www.soest.hawaii.edu/tree/cephalopoda/cephalopoda.html>
- ZIMMERMANN, R. (1977). Estimation of bacterial number and biomass by epifluorescence microscopy and scanning electron microscopy. In: Rheinheimer G. (ed.). *Microbial ecology of a brackish water environment*. *Ecological Studies* 25, Springer, Berlin, 103-120.
- ZIMMERMANN, H. (1996). Interactions between Planktonic Protozoans and Metazoans after the Spring Bloom of Phytoplankton in a Eutrophic Lake, the Belauer See, in the Bornhöveder Seenkette, North Germany. *Acta Protozoologica*, 35, 215-221.
- ZIMMERMANN-TIMM, H. (1999). In: VON TÜMPLING, W. and G. FRIEDRICH, (eds.). *Zooplankton-Protozooplankton. Biologische Gewässeruntersuchung, Methoden der Biologischen Wasseruntersuchung, 2*, Gustav Fischer Verlag, 76-97.
- ZIMMERMANN-TIMM, H. (1999). In: VON TÜMPLING, W. and G. FRIEDRICH, (eds.). *Ästuare. Biologische Gewässeruntersuchung, Methoden der Biologischen Wasseruntersuchung, 2*, Gustav Fischer Verlag, 482-534.
- ZIMMERMANN-TIMM, H. and S. BARKMANN (submitted). Feeding behaviour of two planktonic freshwater ciliates coexisting during spring time in the eutrophic Belauer See (Bornhöveder Seenkette, North Germany).- *Limnologica*

**Publications from METEOR expeditions
in other reports**

- Gerlach, S.A., J. Thiede, G. Graf und F. Werner (1986): Forschungsschiff Meteor, Reise 2 vom 19. Juni bis 16. Juli 1986. Forschungsschiff Poseidon, Reise 128 vom 7. Mai bis 8. Juni 1986. Ber. Sonderforschungsbereich 313, Univ. Kiel, 4, 140 S.
- Siedler, G., H. Schmickler, T.J. Müller, H.-W. Schenke und W. Zenk (1987): Forschungsschiff Meteor, Reise Nr. 4, Kapverden - Expedition, Oktober - Dezember 1986. Ber. Inst. f. Meeresk., 173, Kiel, 123 S.
- Wefer, G., G.F. Lutze, T.J. Müller, O. Pfannkuche, W. Schenke, G. Siedler und W. Zenk (1988): Kurzbericht über die Meteor - Expedition Nr. 6, Hamburg - Hamburg, 28. Oktober 1987 - 19. Mai 1988. Berichte, Fachbereich Geowissenschaften, Universität Bremen, 4, 29 S.
- Müller T.J., G. Siedler und W. Zenk (1988): Forschungsschiff Meteor, Reise Nr. 6, Atlantik 87/88, Fahrtabschnitte Nr. 1 - 3, Oktober - Dezember 1987. Ber. Inst. f. Meeresk., 184, Kiel, 77 S.
- Lutze, G.F., C.O.C. Agwu, A. Altenbach, U. Henken-Mellies, C. Kothe, N. Mühlhan, U. Pflaumann, C. Samtleben, M. Sarnthein, M. Segl, Th. Soltwedel, U. Stute, R. Tiedemann und P. Weinholz (1988): Bericht über die "Meteor" -Fahrt 6-5, Dakar - Libreville, 15.1.-16.2.1988. Berichte - Reports, Geol. Paläont. Inst., Univ. Kiel, 22, 60 S.
- Wefer, G., U. Bleil, P.J. Müller, H.D. Schulz, W.H. Berger, U. Brathauer, L. Brück, A. Dahmke, K. Dehning, M.L. Durate-Morais, F. Fürsich, S. Hinrichs, K. Klockgeter, A. Kölling, C. Kothe, J.F. Makaya, H. Oberhänsli, W. Oschmann, J. Posny, F. Rostek, H. Schmidt, R. Schneider, M. Segl, M. Sobiesiak, T. Soltwedel und V. Spieß (1988): Bericht über die Meteor - Fahrt M 6-6, Libreville - Las Palmas, 18.2.1988 - 23.2.1988. Berichte, Fachbereich Geowissenschaften, Universität Bremen, 3, 97 S.
- Hirschleber, H., F. Theilen, W. Balzer, B. v. Bodungen und J. Thiede (1988): Forschungsschiff Meteor, Reise 7, vom 1. Juni bis 28. September 1988, Ber. Sonderforschungsbereich 313, Univ. Kiel, 10, 358 S.

METEOR-Berichte

List of publications

- 89-1 (1989) Meincke, J.,
Quadfasel, D. GRÖNLANDSEE 1988-Expedition, Reise Nr. 8,
27. Oktober 1988 - 18. Dezember 1988.
Universität Hamburg, 40 S.
- 89-2 (1989) Zenk, W.,
Müller, T.J.,
Wefer, G. BARLAVENTO-Expedition, Reise Nr. 9,
29. Dezember 1988 - 17. März 1989.
Universität Hamburg, 238 S.
- 90-1 (1990) Zeitschel, B.,
Lenz, J.,
Thiel, H.,
Boje, R.,
Stuhr, A.,
Passow, U. PLANKTON'89 - BENTHOS'89, Reise Nr. 10,
19. März - 31. August 1989.
Universität Hamburg, 216 S.
- 90-2 (1990) Roether, W.,
Sarnthein, M.,
Müller, T.J.,
Nellen, W.,
Sahrhage, D. SÜDATLANTIK-ZIRKUMPOLARSTROM,
Reise Nr. 11, 3. Oktober 1989 - 11. März 1990.
Universität Hamburg, 169 S.
- 91-1 (1991) Wefer, G.,
Weigel, W.,
Pfannkuche OSTATLANTIK 90 - EXPEDITION, Reise Nr. 12,
13. März - 30. Juni 1990.
Universität Hamburg, 166 S.
- 91-2 (1991) Gerlach, S.A.,
Graf, G. EUROPÄISCHES NORDMEER, Reise Nr. 13,
6. Juli - 24. August 1990.
Universität Hamburg, 217 S.
- 91-3 (1991) Hinz, K.,
Hasse, L.,
Schott, F. SUBTROPISCHER & TROPISCHER ATLANTIK,
Reise Nr. 14/1-3, Maritime Meteorologie und
Physikalische Ozeanographie, 17. September -
30. Dezember 1990. Universität Hamburg, 58 S.
- 91-4 (1991) Hinz, K. SUBTROPISCHER & TROPISCHER ATLANTIK,
Reise Nr. 14/3, Geophysik, 31. Oktober -
30. Dezember 1990. Universität Hamburg, 94 S.
- 92-1 (1992) Siedler, G.,
Zenk, W. WOCE Südatlantik 1991, Reise Nr. 15,
30. Dezember 1990 - 23. März 1991. Universität
Hamburg, 126 S.
- 92-2 (1992) Wefer, G.,
Schulz, H.D.,
Schott, F.,
Hirschleber, H. B. ATLANTIK 91 - EXPEDITION, Reise Nr. 16,
27. März - 8. Juli 1991. Universität Hamburg,
288 S.

- 92-3 (1992) Suess, E.,
Altenbach, A.V. EUROPÄISCHES NORDMEER, Reise Nr. 17,
15. Juli - 29. August 1991. Universität Hamburg, 164 S.
- 93-1 (1993) Meincke, J.,
Becker, G. WOCE-NORD, Cruise No. 18, 2. September -
26. September 1991. NORDSEE, Cruise No. 19,
30 September - 12 October 1991. Universität
Hamburg, 105 pp.
- 93-2 (1993) Wefer, G.,
Schulz, H.D. OSTATLANTIK 91/92 - EXPEDITION, Reise Nr. 20,
M 20/1 und M 20/2, 18. November 1991 - 3. Februar
1992. Universität Hamburg, 248 S.
- 93-3 (1993) Wefer, G.,
Hinz, K.,
Roeser, H.A. OSTATLANTIK 91/92 - EXPEDITION, Reise Nr. 20,
M 20/3, 4. Februar - 13. März 1992. Universität
Hamburg, 145 S.
- 93-4 (1993) Pfannkuche, O.,
Duinker, J.C.,
Graf, G.,
Henrich, R.,
Thiel, H.,
Zeitschel, B. NORDATLANTIK 92, Reise Nr. 21,
16. März - 31. August 1992. Universität
Hamburg, 281 S.
- 93-5 (1993) Siedler, G.,
Balzer, W.,
Müller, T.J.,
Rhein, M.,
Onken, R.,
Zenk, W. WOCE South Atlantic 1992, Cruise No. 22,
22 September 1992 - 31 January 1993.
Universität Hamburg, 131 pp.
- 94-1 (1994) Bleil, U.,
Spieß, V.,
Wefer, G. Geo Bremen SOUTH ATLANTIC 1993, Cruise
No. 23, 4 February - 12 April 1993. Universität
Hamburg, 261 pp.
- 94-2 (1994) Schmincke, H.-U.,
Rihm, O. OZEANVULKAN 1993, Cruise No. 24, 15 April -
9 May 1993. Universität Hamburg, 88 pp.
- 94-3 (1994) Hieke, W.,
Halbach, P.,
Türkay, M.,
Weikert, H. MITTELMEER 1993, Cruise No. 25,
12 May - 20 August 1993. Universität Hamburg,
243 pp.
- 94-4 (1994) Suess, E.,
Kremling, K.,
Mienert, J. NORDATLANTIK 1993, Cruise No. 26,
24 August - 26 November 1993. Universität Hamburg,
256 pp.

- 94-5 (1994) Bröckel, K. von,
Thiel, H.,
Krause, G. ÜBERFÜHRUNGSFAHRT, Reise Nr. 0, 15. März -
15. Mai 1986. ERPROBUNGSFAHRT, Reise Nr. 1,
16. Mai - 14. Juni 1986. BIOTRANS IV, Skagerrak 86,
Reise Nr. 3, 21. Juli - 28. August 1986. Universität
Hamburg, 126 S.
- 94-6 (1994) Pfannkuche, O.,
Balzer, W.,
Schott, F. CARBON CYCLE AND TRANSPORT OF WATER
MASSES IN THE NORTH ATLANTIC - THE
WINTER SITUATION, Cruise No. 27, 29 December -
26 March 1994. Universität Hamburg, 134 pp.
- 95-1 (1995) Zenk, W.,
Müller, T.J. WOCE Studies in the South Atlantic, Cruise No. 28,
29 March - 14 June 1994. Universität Hamburg, 193 pp.
- 95-2 (1995) Schulz, H.,
Bleil, U.,
Henrich, R.,
Segl, M. Geo Bremen SOUTH ATLANTIC 1994, Cruise
No. 29, 17 June - 5 September 1994. Universität
Hamburg, 323 pp.
- 96-1 (1996) Nellen, W.,
Bettac, W.,
Roether, W.,
Schnack, D.,
Thiel, H.,
Weikert, H.,
Zeitschel, B. MINDIK (Band I), Reise Nr. 5, 2. Januar -
24. September 1987. Universität Hamburg, 275 S.
- 96-2 (1996) Nellen, W.,
Bettac, W.,
Roether, W.,
Schnack, D.,
Thiel, H.,
Weikert, H.,
Zeitschel, B. MINDIK (Band II), Reise Nr. 5, 2. Januar -
24. September 1987. Universität Hamburg, 179 S.
- 96-3 (1996) Koltermann, K.P.,
Pfannkuche, O.,
Meincke, J. JGOFS, OMEX and WOCE in the North Atlantic 1994,
Cruise No. 30, 7 September - 22 December 1994.
Universität Hamburg, 148 pp.
- 96-4 (1996) Hemleben, Ch.,
Roether, W.,
Stoffers, P. Östliches Mittelmeer, Rotes Meer, Arabisches Meer,
Cruise No. 31, 30 December 1994 - 22 March 1995.
Universität Hamburg, 282 pp.
- 96-5 (1996) Lochte, K.,
Halbach, P.,
Flemming, B.W. Biogeochemical Fluxes in the Deep-Sea and Investiga-
tions of Geological Structures in the Indian Ocean,
Cruise No. 33, 22 September - 30 December 1995.
Universität Hamburg, 160 pp.

- 96-6 (1996) Schott, F., Pollehne, F., Quadfasel, D., Stramma, L., Wiesner, M., Zeitzschel, B. ARABIAN SEA 1995, Cruise No. 32, 23 March - 19 September 1995. Universität Hamburg, 163 pp
- 97-1 (1997) Wefer, G. Bleil, U. Schulz, H. Fischer, G. Geo Bremen SOUTH ATLANTIC 1996 (Volume I), Cruise No. 34, 3 January - 18 February 1996. Universität Hamburg, 254 pp.
- 97-2 (1997) Wefer, G. Bleil, U. Schulz, H. Fischer, G. Geo Bremen SOUTH ATLANTIC 1996 (Volume II), Cruise No. 34, 21 February - 15 April 1996. Universität Hamburg, 268 pp.
- 97-3 (1997) Wefer, G. 10 Jahre Forschungsschiff METEOR (1986 - 1996) - Dokumentation der Fahrten M0 - M34 (Volume I), Cruise No. 0-17. Universität Hamburg, 269 pp.
- 97-4 (1997) Wefer, G. 10 Jahre Forschungsschiff METEOR (1986 - 1996) - Dokumentation der Fahrten M0 - M34 (Volume II), Cruise No. 18-34. Universität Hamburg, 236 pp.
- 98-1 (1998) Wefer, G. Müller, T.J. Canary Islands 1996/97, Cruise No. 37, 4 December 1996 - 22 January 1997. Universität Hamburg, 134 pp.
- 98-2 (1998) Mienert, J. Graf, G. Hemleben, C. Kremling, K. Pfannkuche, O. Schulz-Bull, D. Nordatlantik 1996, Cruise No. 36, 6 June 1996 - 4 November 1996. Universität Hamburg, 302 pp.
- 98-3 (1998) Hemleben, C. Zahn, R. Meischner, D. Karibik 1996, Cruise No. 35, 18 April - 3 June 1996. Universität Hamburg, 208 pp.
- 98-4 (1998) Bleil, U. Fischer, G. Geo Bremen South Atlantic 1997, Cruise No. 38, 25 January - 14 April 1997. Universität Hamburg, 244 pp.
- 99-1 (1999) Schott, F. Koltermann, K.-P. Stramma, L. Sy, A. Zahn, R. Zenk, W. North Atlantic 1997, Cruise No. 39, 18 April - 14 September 1997. Universität Hamburg, 197 pp.

- 99-2 (1999) Hieke, W.
Hemleben, Ch.
Linke, P.
Türkay, M.
Weikert, H. Mittelmeer 1997/98, Cruise No. 40, 28 October 1997-10 February 1998. Universität Hamburg, 286 pp.
- 99-3 (1999) Schulz, H.D.
Devey, C.W.
Pätzold, J.
Fischer, G. Geo Bremen / GPI Kiel South Atlantic 1998, Cruise No. 41, 13 February - 13 June 1998. Universität Hamburg, 341 pp.
- 00-1 (2000) Pfannkuche, O.
Müller, T.J.
Nellen, W.
Wefer, G. Ostatlantik 1998, Cruise No. 42, 16 June - 26 October 1998. Universität Hamburg, 259 pp.
- 00-2 (2000) Schmincke, H.-U.
Graf, G.,
Krastel, S. DECOS / OMEX II, Cruise No. 43, 25 November 1998-14 January 1999, Universität Hamburg, 103 pp.
- 00-3 (2000) Pätzold, J.
Halbach, P.E.
Hempel, G.
Weikert, H. Östliches Mittelmeer - Nördliches Rotes Meer 1999, Cruise No. 44, 22 January - 16 May 1999, Universität Hamburg, 240 pp.