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Title of article Dissolution and water-mass patterns in the Southeast Indian Ocean, Part I: Evidence from Recent to late Holocene foraminiferal assemblages

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CORE	SPL.CM	LAT.°S	LONG.°E	DEPTH	% 63	# FRAG	FORAM #	SP.DIV	% PACHL
E35-06A	0-2	53.20	128.10	3933	33	-	-	-	95.6
E37-21A	0-2	51.60	125.18	4355	21	-	-	-	95.8
E39-21B	0-2	48.86	126.02	4081	16	-	-	-	76.5
E39-43A	0-2	47.44	133.01	3947	21	-	-	-	61.5
E39-53A	0-2	48.82	144.54	3916	19	-	-	-	75.7
E44-24A	0-4	56.04	119.90	4329	3	RADS	0	0.0	0.0
E44-26A	0-3	54.02	119.77	4185	-	RADS	-	0.0	99.0
E44-26B	1-4	54.02	119.77	4185	8	RADS	-	0.0	99.0
E44-27A	0-1	53.04	119.73	3450	16	36	219	1.59	99.1
E44-27B	0-1	53.04	119.73	3450	15	30	97	1.70	97.6
E44-31A	0-3	46.00	119.88	4203	9	105	85	2.35	52.8
E45-02A	0-2	29.36	110.25	4908	10	93	1	3.40	25.0
E45-08A	0-3	29.98	99.89	4536	32	29	96	3.65	23.5
E45-09A	0-3	29.98	99.99	3474	25	33	36	3.50	0.0
E45-21A	0-1	37.64	103.10	4237	13	140	30	2.82	24.1
E45-24A	0-2	40.15	104.18	4050	29	-	-	-	55.2
E45-26A	0-1	41.77	105.01	3753	53	28	165	2.50	49.3
E45-27A	0-1	43.31	105.55	3738	28	30	76	2.80	37.8
E45-29A	0-3	44.88	106.45	3758	20	29	132	2.71	42.3
E45-39A	0-3	56.00	112.72	4302	67	QTZ; RADS	0	0.0	0.0
E45-44A	0-3	58.49	114.10	4370	4	RADS; QTZ	0	0.0	0.0
E45-46A	0-2	59.73	114.95	4347	0.2	RADS; QTZ	0	0.0	0.0
E45-49A	0-10	61.35	113.75	4167	-	RADS; MN	0	0.0	0.0
E45-53A	0-3	58.46	113.91	4368	0.4	RADS	-	0.0	0.0
E45-57A	0-2	57.10	114.02	4384	8	RADS	-	0.0	0.0
E45-67A	0-2	49.50	114.49	3240	45	7.5	71	1.73	97.5
E45-70A	0-1	48.50	114.48	3639	30	40	122	2.23	87.5
E45-71A	0-1	48.03	114.49	3619	31	25	274	2.29	84.5
E45-73A	0-1	47.55	114.44	3690	29	38	43	2.32	71.6
E45-74A	2-4	47.55	114.14	3744	31.5	40	53	2.46	68.8
E45-77A	0-2	46.45	114.42	3740	24	60	72	2.22	72.4
E45-78A	0-2	45.07	114.35	4050	24	71	79	2.47	48.8

Table A. Eltanin trigger cores (cont.)

CORE	SPL.CM	LAT.°S	LONG.°E	DEPTH	% 63	# FRAG	FORAM #	SPDIV	% PACHL
E45-81A	0-3	43.98	114.36	4158	9	134	53	2.37	30.9
E45-83A	0-2	42.59	114.44	4248	19	91	70	2.40	28.4
E45-86A	0-2	41.50	114.43	4257	34	-	-	-	-
E45-88-1	3-4	40.55	114.54	4392	20	-	-	-	38.0
E45-102A	0-2	33.61	113.59	3049	15	9	79	3.44	0.0
E47-01A	0-2	51.58	78.97	3528	14.5	51	19	2.61	97.3
E47-04A	0-3	64.12	80.40	3540	5	RADS; QTZ	0	0.0	0.0
E47-05A	2-3	65.54	80.43	2880	13	RADS; QTZ	0	0.0	0.0
E47-06A	0-2	66.11	78.44	2889	8	RADS; QTZ	0	0.0	0.0
E47-09A	0-2	66.38	78.02	2394	10	QTZ; RADS	0	0.0	0.0
E47-10A	2-3	63.96	83.99	3549	4	QTZ	0	0.0	97.7
E47-20A	0-3	49.19	72.15	948	80	RK FRAGS	-	-	98.8
E47-22A	0-2	47.48	73.93	2628	24.5	RK FRAGS	-	1.64	96.6
E48-03A	0-1	41.02	100.01	3868	15	59	264	2.65	18.1
E48-04A	0-1	38.89	97.97	4023	29	61	44	2.51	52.7
E48-05A	0-2	36.44	97.47	4221	12.5	40	73	3.19	13.8
E48-06A	0-1	34.00	97.54	4212	9	153	79	2.95	6.2
E48-09A	0-2	30.46	97.58	3038	24	12	211	3.61	16.7
E48-10A	2-4	30.47	97.60	3060	24.5	9	58	3.68	6.1
E48-11A	0-1	29.66	97.53	3425	25	35	73	3.57	7.1
E48-17A	0-2	34.03	92.67	4302	9	354	29	2.69	4.2
E48-18A	2-3	35.43	91.88	3605	30	28	66	3.38	7.4
E48-19A	0-1	37.65	90.69	3691	22	45.5	99	3.06	8.6
E48-20A	0-4	39.18	89.38	3393	27.5	16	171	3.36	8.8
E48-22A	0-1	39.89	85.41	3324	27	11	93	3.12	9.5
E48-23A	0-1	39.52	83.72	3459	23	21	115	3.08	7.1
E48-24A	0-2	39.11	82.17	3396	28	18	199	3.17	12.2
E48-27A	0-1	38.54	79.90	3231	24	30	85	3.07	5.3
E48-28A	0-1	38.55	79.92	3173	25	28	101	3.09	9.1
E48-30A	0-6	35.82	81.62	4217	9	447	17	2.12	1.8
E48-31A	0-1	34.81	84.13	3582	20	72	68	3.23	6.5
E48-32A	0-1	32.79	83.87	2926	52.5	18	74	3.46	0.0
E48-34A	0-3	29.96	85.57	4068	17	65	134	3.63	11.5

Table A. Eltanin trigger cores (cont.)

CORE	SPL.CM	LAT.°S	LONG.°E	DEPTH	% 63	# FRAG	FORAM #	SPDIV	% PACHL
E48-37A	0-1	31.43	88.97	3047	31	18	110	3.61	4.8
E48-38A	0-4	31.97	90.17	3708	23	62	415	3.42	9.3
E48-42A	0-3	31.31	93.48	4491	1	804	6	2.36	17.4
E48-46A	0-1	31.15	97.45	2484	34	17	82	3.55	0.0
E48-48A	0-2	33.12	99.29	4255	59	-	-	-	11.1
E48-49A	1-3	34.50	100.03	4347	7	135	35	2.75	6.3
E48-50A	0-3	32.20	102.83	5054	2	RADS	0	0.0	0.0
E49-01A	0-2	39.99	110.06	4564	11	-	-	-	25.7
E49-03A	0-2	45.11	109.92	4122	20	41	115	2.68	53.7
E49-04A	0-2	46.99	110.13	3513	37	16	25	2.40	73.9
E49-05A	0-2	49.03	110.18	3420	48	10	37	2.13	94.6
E49-06A	0-3	51.01	105.99	3276	11	14.5	212	1.60	97.1
E49-10A	0-2	59.03	110.13	4303	3	RADS; MN	0	0.0	0.0
E49-11A	0-2	59.65	110.16	4233	5	RADS;DIATOMS	0	0.0	0.0
E49-17A	0-3	48.28	90.25	3448	20	45	53	2.14	90.3
E49-18A	0-3	46.05	90.15	3204	28	11	68	2.50	65.6
E49-19A	0-1	43.89	90.10	2988	35	13	102	2.84	50.0
E49-20A	0-2	40.08	94.89	3492	32.5	16	115	3.16	12.2
E49-21A	0-3	42.18	94.89	3240	34	7	-	3.29	22.4
E49-22A	1-2	45.02	95.08	2690	33	14	114	2.54	68.2
E49-23A	0-1	47.13	95.08	3207	32	20	169	2.33	83.8
E49-24A	0-5	47.99	95.04	3164	48	8	51	2.43	78.5
E49-25A	0-2	49.38	94.83	3285	38	34	60	1.98	88.4
E49-27A	0-2	53.63	95.13	3847	-	-	-	-	98.5
E49-32A	0-3	58.37	98.47	4143	RADS & DIATOMS		0	0.0	0.0
E49-38A	0-4	50.85	100.09	3564	-	70	67	1.19	98.7
E49-39A	1-3	50.06	100.22	3344	6	34	102	1.78	94.8
E49-41A	0-3	48.24	100.06	2997	76.5	10	60	2.15	94.9
E49-42A	0-1	47.24	100.13	2853	62	10	98	2.42	80.5
E49-43A	0-1	46.49	100.05	3024	70	12.5	74	2.33	73.5
E49-44A	0-1	45.66	100.12	3411	35	12	93	2.64	65.9
E49-46A	0-2	44.07	100.02	3562	45	13	66	2.83	33.9
E49-48A	0-2	42.45	100.03	3600	29	9	496	2.89	31.9

Table A. Eltanin trigger cores (cont.)

CORE	SPL.CM	LAT.°S	LONG.°E	DEPTH	% 63	# FRAG	FORAM #	SPDIV	% PACHL
E49-50A	0-3	40.61	99.91	4061	15	-	-	-	19.1
E49-52A	2-4	39.00	99.95	4131	17	91	44	2.88	15.3
E49-53A	0-3	37.86	100.03	4248	20	19	116	2.98	13.5
E50-03A	0-7	42.01	104.90	4014	17	39	56	2.79	24.1
E50-04A	0-4	44.02	105.00	3753	14	-	-	-	37.0
E50-05A	2-3	46.11	105.03	3405	27	9.5	25	2.84	66.3
E50-06A	0-2	48.03	105.24	3009	35	8	63	2.44	85.0
E50-07A	0-8	50.02	104.91	3132	22	10	84	1.91	94.8
E50-09A	2-4	52.02	105.01	3186	4	11	113	1.15	97.2
E50-15A	0-2	60.07	109.98	4203	3	RADS	0.4	1.36	75.0
E50-16A	0-3	61.04	114.81	4239	0.5	RADS	0	0.0	0.0
E54-01A	0-2	48.12	86.19	3823	1	RADS	0	0.0	0.0
E54-11A	0-2	59.78	81.02	1800	47.5	10	0	0.0	0.0

Table 2B. Varimax Factor Scores from Q-mode CABFAC of Planktonic Foraminifera from Core-top Samples Shallower than 4000 meters.

Species	Factor 1	Factor 2	Factor 3
Neogloboquadrina pachyderma (L)	-0.05	-0.99	-0.05
Neogloboquadrina pachyderma (R)	0.34	0.09	-0.17
Globigerina quinqueloba	0.06	0.04	-0.25
Globigerina bulloides	-0.03	0.02	-0.89
Globorotalia inflata	0.54	-0.07	-0.18
Globorotalia truncatulinoides (R)	0.06	-0.01	0.03
Globorotalia truncatulinoides (L)	0.31	0.02	-0.02
Globigerinita glutinata	0.18	-0.02	-0.12
Globorotalia scitula	0.09	-0.02	0.04
Orbulina universa	0.05	0.01	-0.01
Globigerina falconensis	0.54	-0.02	0.15
Globorotalia hirsuta	0.07	0.0	0.02
Globigerinoides ruber	0.36	-0.09	0.21
Neogloboquadrina dutertrei	0.06	0.01	-0.01
Globigerinella aequilateralis	0.07	-0.01	0.03
Globigerina rubescens	0.09	-0.02	0.05
variance (%)	29.4	23.8	41.6

Table 3. Varimax Factor Scores From Q-mode CABFAC of Planktonic Foraminifera From Core-top Samples Deeper than 4000 meters.

Species	Factor 1	Factor 2	Factor 3
Neogloboquadrina pachyderma (L)	0.25	-0.12	0.02
Neogloboquadrina pachyderma (R)	0.22	0.43	-0.03
Globigerina quinqueloba	0.24	-0.08	0.10
Globigerina bulloides	0.88	-0.22	0.05
Globorotalia inflata	0.14	0.79	0.21
Globorotalia truncatulinoides (R)	-0.02	-0.03	0.12
Globorotalia truncatulinoides (L)	0.10	0.26	0.09
Globigerinita glutinata	0.03	-0.10	0.39
Globorotalia scitula	-0.01	-0.03	0.09
Orbulina universa	0.04	-0.02	0.07
Globigerina falconensis	0.0	-0.04	0.30
Globorotalia hirsuta	-0.04	0.17	-0.02
Globigerinoides ruber	-0.14	-0.10	0.76
Neogloboquadrina dutertrei	-0.01	-0.01	0.08
Globigerinella aequilateralis	-0.01	-0.06	0.17
Globigerina rubescens	-0.03	-0.07	0.21
variance (%)	53.4	27.9	14.6

TABLE ~~A~~ D. VARIMAX FACTOR MATRIX OF ELTANIN CORE-TOP TOTAL FAUNA DATA

Eltanin core	Communality	Factor 1	Factor 2	Factor 3
44-27	0.998	0.037	-0.939	-0.338
44-27	0.995	0.043	-0.939	-0.333
45-09	0.815	0.896	-0.095	-0.049
45-26	0.987	0.344	-0.190	-0.913
45-27	0.991	0.461	-0.182	-0.863
45-29	0.969	0.469	-0.225	-0.836
45-67	0.996	0.039	-0.911	-0.404
45-70	0.944	0.220	-0.240	-0.915
45-71	0.973	0.188	-0.419	-0.873
45-73	0.984	0.222	-0.373	-0.892
45-74	0.963	0.308	-0.236	-0.901
45-77	0.950	0.262	-0.276	-0.897
47-01	0.979	-0.021	-0.987	-0.069
47-20	0.978	-0.047	-0.986	-0.055
47-22	0.994	0.093	-0.918	-0.378
48-03	0.921	0.473	-0.069	-0.833
48-09	0.829	0.896	-0.110	-0.117
48-10	0.866	0.923	-0.092	-0.077
48-11	0.839	0.907	-0.091	-0.086
48-18	0.911	0.838	-0.035	-0.456
48-19	0.914	0.735	-0.032	-0.610
48-20	0.940	0.753	-0.021	-0.611
48-22	0.931	0.822	-0.056	-0.503
48-23	0.885	0.831	-0.032	-0.440
48-24	0.929	0.686	-0.051	-0.675
48-27	0.858	0.821	-0.014	-0.429

TABLE 4 (cont.)

Eltanin core	Communality	Factor 1	Factor 2	Factor 3
48-28	0.901	0.833	-0.043	-0.453
48-31	0.914	0.855	-0.035	-0.425
48-32	0.964	0.938	-0.021	-0.288
48-37	0.954	0.955	-0.070	-0.193
48-38	0.911	0.824	-0.048	-0.479
48-46	0.905	0.939	-0.043	-0.145
49-04	0.988	0.241	-0.420	-0.868
49-05	0.987	0.115	-0.690	-0.705
49-06	0.994	0.037	-0.947	-0.309
49-17	0.977	0.216	-0.658	-0.706
49-19	0.907	0.534	-0.396	-0.682
49-20	0.960	0.613	-0.030	-0.764
49-21	0.911	0.613	-0.087	-0.727
49-22	0.977	0.330	-0.513	-0.778
49-23	0.989	0.220	-0.504	-0.829
49-24	0.991	0.228	-0.487	-0.838
49-25	0.950	0.215	-0.532	-0.787
49-38	0.961	0.125	-0.954	-0.188
49-39	0.994	0.118	-0.868	-0.477
49-41	0.953	0.210	-0.439	-0.846
49-42	0.981	0.268	-0.409	-0.861
49-43	0.958	0.271	-0.237	-0.910
49-44	0.950	0.388	-0.421	-0.789
49-46	0.988	0.467	-0.134	-0.867
49-48	0.956	0.459	-0.147	-0.851
50-05	0.953	0.382	-0.322	-0.839

TABLE D (cont.)

Eltanin core	Communality	Factor 1	Factor 2	Factor 3
50-06	0.989	0.222	-0.528	-0.813
50-09	0.987	-0.018	-0.961	-0.253
	Variance	29.394	23.816	41.579
	Cum. Var.	29.394	53.211	94.970