

Table 3. Coefficients for the annual cycle of surface salinity for MARMAP standard station locations. See text for explanation.

Sta	Lat	Lon	Depth	C1	A1	B1	C2	A2	B2	C3	A3	B3	Sdv
1	35.27	75.23	26	34.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63
2	35.47	75.25	29	33.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72
3	35.68	74.97	54	33.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55
4	35.85	75.48	19	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.91
5	36.25	75.53	26	31.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11
6	36.38	75.25	35	32.75	0.85	0.25	0.00	0.00	0.00	0.00	0.00	0.00	1.01
7	36.15	75.10	36	33.05	1.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	1.05
8	36.27	74.77	413	34.04	0.80	0.94	0.00	0.00	0.00	0.00	0.00	0.00	1.06
9	36.65	74.87	47	33.30	1.33	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.91
10	36.72	75.37	20	32.49	0.73	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.81
11	36.55	75.78	18	30.03	0.45	-1.26	0.00	0.00	0.00	0.00	0.00	0.00	1.68
12	36.95	75.80	12	29.84	2.27	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	2.02
13	36.92	75.55	18	31.78	1.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	1.09
14	36.88	75.32	24	32.54	0.97	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.96
15	36.85	75.07	35	32.88	1.12	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.86
16	36.82	74.83	49	33.31	1.23	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.90
17	36.77	74.58	1174	34.13	1.39	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.72
19	37.22	74.75	68	33.51	1.14	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.83
20	37.30	75.15	28	32.50	1.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.69
21	37.25	75.67	11	31.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40
22	37.62	75.32	17	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
23	37.80	75.28	16	31.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
24	37.52	74.95	31	32.65	0.93	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.74
25	37.52	74.65	60	33.35	1.21	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.62
26	37.63	74.35	98	33.82	1.33	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.72
27	37.80	74.77	40	32.71	1.04	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.74
28	38.17	74.90	25	32.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
29	38.75	74.95	18	30.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
30	38.58	74.80	27	31.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83
31	38.42	74.65	32	32.39	0.71	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.66
32	38.23	74.52	41	32.73	0.98	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.67
33	38.07	74.37	48	32.91	0.94	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.65
34	37.85	74.18	116	33.61	1.33	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.69
35	37.68	74.05	1280	34.48	0.66	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.80
37	37.98	73.97	163	33.85	1.07	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.80
38	38.35	73.65	125	33.78	0.77	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.96
39	38.42	74.12	57	33.03	0.84	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.65
40	38.67	74.32	42	32.68	0.84	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.65
41	38.92	74.55	22	31.99	0.54	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.70
42	39.23	74.43	17	31.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
43	39.35	74.10	24	31.95	0.56	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.68
44	38.95	74.12	40	32.63	1.02	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.54
45	38.75	73.75	49	33.13	0.63	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.64
46	38.65	73.15	177	34.06	1.28	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.70
47	38.98	73.13	78	33.21	1.12	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.73
49	39.28	72.85	81	33.29	0.97	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.70
50	39.20	73.65	42	32.68	0.96	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.70
51	39.65	73.38	33	32.41	1.06	0.45	-0.09	-0.65	0.01	0.00	0.00	0.00	0.48
52	39.57	73.82	22	32.17	0.89	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.72
53	39.72	74.05	15	31.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89
54	40.12	73.80	28	31.87	0.95	-0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.70
55	40.43	73.83	26	30.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68
56	40.27	73.60	25	31.95	0.79	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.75
57	40.10	73.38	40	32.41	0.90	0.29	-0.05	-0.38	-0.21	0.00	0.00	0.00	0.51
58	39.87	73.08	66	32.72	1.02	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.57
59	39.65	72.77	69	32.96	0.90	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.67
60	39.47	72.55	112	33.50	0.95	-0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.67
61	39.30	72.32	249	34.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
64	39.55	72.12	226	34.00	0.60	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.73
65	39.85	72.45	74	33.19	0.58	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.54
66	40.32	72.72	50	32.48	0.94	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.58
67	40.47	73.22	26	32.00	0.75	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.51
68	40.73	72.67	26	31.85	0.69	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.56
69	40.57	72.47	41	32.22	0.82	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.54
70	40.23	71.95	65	33.15	0.66	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.62

71	39.87	71.82	169	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93
72	40.07	71.50	92	33.52	0.51	-0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.73
73	40.52	71.60	76	33.12	0.62	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.55
74	40.82	72.13	40	31.85	0.98	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.55
75	41.07	71.70	45	31.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
76	41.33	71.35	30	32.16	0.41	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43
77	41.15	71.25	40	32.38	0.32	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.40
78	40.97	71.17	50	32.49	0.37	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.39
79	40.68	71.03	62	32.79	0.28	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.48
80	40.35	70.85	99	33.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
81	40.17	70.77	132	33.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
82	39.98	70.67	406	34.09	0.39	-0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.65
85	40.22	70.42	114	33.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
86	40.70	70.58	57	32.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
87	41.17	71.00	34	32.33	0.33	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.43
88	41.05	70.55	44	32.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
89	40.68	70.18	45	32.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
90	40.40	69.70	70	32.87	0.23	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.32
91	40.13	69.57	91	33.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55
93	40.88	69.57	37	32.52	0.28	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.31
94	41.53	69.43	63	32.41	0.63	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.36
95	41.97	69.83	96	32.25	0.74	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.47
96	42.25	69.72	220	32.52	0.78	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.43
97	42.10	70.33	61	31.77	0.85	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.54
98	42.43	70.63	75	31.58	0.99	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.62
99	42.80	70.53	101	31.65	1.07	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.55
100	42.83	70.00	197	32.43	0.67	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.37
101	43.13	69.97	157	32.33	0.81	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.38
102	43.40	70.20	103	31.80	0.87	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.45
103	43.33	69.68	206	32.50	0.57	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.42
104	43.67	69.37	100	32.35	0.54	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.31
105	42.97	69.28	163	32.65	0.52	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.45
106	42.58	69.23	225	32.67	0.45	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.35
107	42.18	69.20	194	32.64	0.53	0.49	-0.01	-0.18	-0.18	0.00	0.00	0.00	0.30
108	41.90	69.17	216	32.63	0.41	0.57	-0.01	-0.13	-0.25	0.00	0.00	0.00	0.29
109	41.65	69.15	170	32.51	0.52	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.30
110	41.33	69.12	160	32.47	0.52	0.44	-0.01	-0.22	-0.10	0.00	0.00	0.00	0.32
111	41.07	69.10	89	32.63	0.34	0.42	-0.01	-0.18	-0.12	0.00	0.00	0.00	0.27
112	40.92	69.10	72	32.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
113	40.65	69.08	75	32.90	0.18	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.26
114	40.42	69.05	80	32.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
115	40.08	69.02	171	34.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01
117	40.48	68.62	82	32.88	0.11	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.31
118	40.33	68.35	131	33.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65
119	40.52	67.93	109	32.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
120	40.80	68.28	57	32.77	0.03	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.21
121	40.85	68.73	64	32.80	0.02	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.20
122	41.33	68.70	85	32.68	0.37	0.37	-0.03	-0.24	-0.14	0.00	0.00	0.00	0.28
123	41.18	68.13	38	32.74	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.20
124	41.62	68.10	35	32.77	0.09	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.23
125	41.87	68.18	177	32.68	0.29	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.28
126	41.62	68.88	100	32.64	0.46	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.35
127	41.98	68.65	168	32.67	0.29	0.51	-0.01	-0.09	-0.21	0.00	0.00	0.00	0.29
128	42.17	68.80	188	32.68	0.41	0.46	-0.02	-0.10	-0.28	0.00	0.00	0.00	0.32
129	42.32	68.45	198	32.70	0.36	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.34
130	42.67	68.32	207	32.78	0.37	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.35
131	42.75	68.77	201	32.70	0.51	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.30
132	42.92	68.37	152	32.70	0.44	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.29
133	43.20	67.98	203	32.61	0.65	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.33
134	43.38	68.13	208	32.66	0.48	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.36
135	43.37	68.68	136	32.63	0.49	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.36
136	43.13	69.02	172	32.59	0.61	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.46
137	43.62	68.93	135	32.49	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
138	43.97	68.58	88	32.31	0.48	-0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.30
140	43.97	68.18	108	32.65	0.50	-0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.30
141	44.33	67.72	68	32.43	0.44	-0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.30
142	43.82	67.72	223	32.71	0.47	-0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.27
143	42.98	67.70	182	32.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
144	42.60	67.70	201	32.63	0.41	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.27
145	42.30	67.70	236	32.65	0.34	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.31
146	41.80	67.70	32	32.77	0.13	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.23

147	41.50	67.68	24	32.73	0.06	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.21
148	41.27	67.68	40	32.69	0.02	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.21
149	40.93	67.68	67	32.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
150	40.62	67.68	81	32.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
151	40.37	67.67	780	33.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89
153	40.77	67.32	97	32.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
154	40.67	67.08	190	33.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74
155	41.22	66.93	68	32.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
157	41.55	67.02	63	32.76	-0.01	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.24
158	41.60	66.52	83	32.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28
159	42.03	66.83	75	32.85	0.15	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.21
160	41.98	67.40	22	32.83	0.08	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.23
161	42.18	67.25	180	32.71	0.22	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.31
162	42.72	67.47	205	32.65	0.55	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.21
163	42.77	66.97	170	32.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
164	43.20	66.80	142	32.46	-0.05	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.26
165	43.58	66.73	126	32.60	0.28	-0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.26
166	43.50	67.00	205	32.65	0.23	-0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.30
167	43.70	67.43	205	32.66	0.55	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.28
168	44.03	67.17	140	32.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56
169	44.27	67.12	139	32.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
170	44.27	66.60	201	32.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
171	43.53	66.33	74	32.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
172	43.02	66.33	128	32.26	-0.10	-0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.51
173	42.65	66.33	110	32.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63
174	42.47	66.33	250	32.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
175	42.28	66.33	245	32.46	0.11	-0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.29
176	42.15	66.33	182	32.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
177	41.87	66.33	85	32.76	0.03	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.19
178	41.50	66.33	89	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
179	41.17	66.32	155	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
181	44.00	66.20	22	31.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
182	43.40	67.72	261	32.62	0.46	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.38
183	43.28	69.33	164	32.65	0.45	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.43
184	38.57	74.88	20	31.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05
185	39.92	73.93	20	31.77	0.61	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.69
186	39.87	73.55	33	32.35	0.83	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.64
187	40.25	73.90	22	31.36	0.79	-0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.89
188	42.43	70.15	81	32.28	0.77	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.40
189	42.82	66.33	62	32.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
190	43.28	66.33	81	32.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
191	41.65	65.92	125	32.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
192	41.90	65.82	148	32.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
193	40.87	66.62	245	33.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65