

**Table 10. Average surface and bottom salinity values for the southern Middle Atlantic Bight region.**  
See text for explanation.

Cruise	Reg	Year	Day	Yrday	Npts	Surface					Bottom					Pc	
						Temp	Dtemp	SDV1	SDV2	Flg	Npts	Temp	Dtemp	SDV1	SDV2		Flg
YUB7702	1	1977	237	1977.65	49	32.67	0.64	0.14	0.79	0	42	33.52	0.41	0.14	0.58	0	23
ARG7701	1	1977	295	1977.81	41	32.90	0.14	0.17	0.74	0	34	33.40	0.22	0.15	0.63	1	23
DEL7802	1	1978	51	1978.14	47	33.00	-0.47	0.16	0.70	0	41	33.23	-0.38	0.15	0.73	0	23
ARG7804	1	1978	115	1978.31	51	33.83	1.18	0.15	8.96	0	44	32.99	-0.40	0.14	0.45	0	23
ALB7807	1	1978	178	1978.49	51	30.83	-1.09	0.15	0.96	0	42	32.76	-0.40	0.16	0.41	0	23
BEL7801	1	1978	229	1978.63	49	31.09	-0.79	0.15	1.21	0	44	32.93	-0.33	0.14	0.59	0	23
BEL7803	1	1978	299	1978.82	13	32.44	-0.18	0.27	0.26	1	14	32.74	-0.24	0.22	0.41	1	23
DEL7903	1	1979	59	1979.16	3	32.16	-0.45	0.58	1.14	1	3	32.89	0.05	0.48	1.11	1	23
EVR8001	1	1980	112	1980.31	53	32.99	0.27	0.15	0.80	0	46	33.71	0.38	0.14	0.53	0	23
EVR8006	1	1980	202	1980.55	53	31.96	0.11	0.15	0.91	0	44	33.56	0.42	0.15	0.37	0	23
ALB8101	1	1981	81	1981.22	36	33.71	0.84	0.17	0.41	1	30	33.67	0.57	0.16	0.36	1	23
KEL8103	1	1981	83	1981.23	54	33.90	0.81	0.15	0.74	0	46	33.86	0.42	0.15	0.45	0	23
DEL8103	1	1981	166	1981.45	40	32.35	0.37	0.16	0.51	1	32	33.25	0.36	0.15	0.75	1	23
ALB8202	1	1982	79	1982.22	47	32.46	-0.53	0.16	0.73	1	41	32.67	-0.55	0.14	0.40	1	23
DEL8203	1	1982	147	1982.40	5	32.18	-0.09	0.50	0.52	1	3	32.39	-0.48	0.49	0.77	1	23
ALB8207	1	1982	178	1982.49	20	31.75	-0.81	0.21	0.39	1	13	33.41	-0.21	0.23	0.62	1	27
DEL8209	1	1982	352	1982.96	38	33.45	0.17	0.17	0.49	1	33	33.38	0.08	0.15	0.32	1	23
ALB8304	1	1983	150	1983.41	50	31.14	-0.99	0.16	1.66	0	48	32.76	-0.50	0.14	0.50	0	23
DEL8309	1	1983	324	1983.89	55	32.65	-0.48	0.15	0.65	0	47	33.14	-0.28	0.14	0.41	0	23
DEL8401	1	1984	35	1984.10	51	32.50	-0.76	0.15	0.53	1	44	32.74	-0.48	0.13	0.38	1	23
ALB8403	1	1984	133	1984.37	52	30.73	-1.63	0.15	1.45	0	46	32.81	-0.44	0.14	0.60	0	23
DEL8409	1	1984	310	1984.85	54	32.89	-0.06	0.15	0.81	0	48	33.16	-0.19	0.14	0.36	0	23
DEL8501	1	1985	34	1985.09	49	33.81	0.42	0.15	0.57	1	43	33.86	0.56	0.14	0.52	1	23
DEL8503	1	1985	108	1985.30	56	33.57	0.84	0.15	0.56	0	48	34.08	0.70	0.14	0.28	0	23
ALB8504	1	1985	142	1985.39	55	33.23	0.97	0.15	0.71	0	48	33.82	0.57	0.14	0.47	0	23
DEL8507	1	1985	246	1985.67	55	32.84	0.74	0.15	0.74	0	48	33.46	0.31	0.14	0.52	0	23
DEL8510	1	1985	315	1985.86	53	33.44	0.44	0.15	0.69	0	48	33.81	0.44	0.14	0.50	0	23
DEL8601	1	1986	14	1986.04	53	34.30	0.72	0.15	0.72	0	45	34.46	0.88	0.15	0.65	0	23
DEL8603	1	1986	132	1986.36	54	33.44	1.07	0.15	1.15	0	47	33.63	0.34	0.14	0.51	0	23
DEL8607	1	1986	244	1986.67	55	32.82	0.75	0.15	0.87	0	47	33.28	0.16	0.14	0.59	0	23
DEL8610	1	1986	312	1986.86	56	33.29	0.30	0.15	0.64	0	48	33.54	0.18	0.14	0.49	0	23
DEL8701	1	1987	11	1987.03	55	33.42	-0.08	0.15	0.89	0	48	33.67	0.14	0.14	0.46	0	23
ALB8702	1	1987	131	1987.36	12	28.66	-2.46	0.34	1.52	1	13	31.61	-1.05	0.23	0.28	1	25
ALB8703	1	1987	136	1987.37	123	30.80	-0.63	0.10	1.05	1	123	32.12	-0.68	0.07	0.51	1	25
DEL8708	1	1987	235	1987.64	54	31.71	-0.27	0.15	0.65	0	43	32.58	-0.56	0.15	0.51	0	23
ALB8706	1	1987	234	1987.64	37	30.80	-0.25	0.19	0.23	1	38	32.05	-0.50	0.14	0.37	1	25
DEL8710	1	1987	312	1987.86	48	32.43	-0.56	0.16	0.50	0	36	32.91	-0.47	0.16	0.58	0	23
DEL8801	1	1988	25	1988.07	53	32.41	-1.09	0.15	0.54	0	46	32.79	-0.75	0.15	0.49	0	23
ALB8803	1	1988	127	1988.35	18	30.43	-0.89	0.27	0.67	1	17	32.28	-0.39	0.21	0.22	1	25
ALB8810	1	1988	322	1988.88	17	31.84	-0.21	0.26	0.55	1	16	32.47	-0.15	0.21	0.44	1	25
DEL8904	1	1989	162	1989.44	79	29.55	-1.51	0.12	1.04	1	78	31.99	-0.63	0.09	0.80	1	25
ORE8905	1	1989	229	1989.63	95	29.18	-1.81	0.12	1.43	1	95	30.93	-1.60	0.09	1.30	1	25
DEL9001	1	1990	16	1990.04	9	33.21	-0.07	0.34	0.43	1	7	33.70	0.18	0.30	0.47	1	24
DEL9105	1	1991	72	1991.20	82	33.04	-0.05	0.11	1.27	0	70	33.48	0.11	0.11	1.02	0	10
CHA9103	1	1991	176	1991.48	4	34.07	1.77	0.53	-9.99	1	0	0.00	-9.99	-9.99	-9.99	1	93
ORE9105	1	1991	215	1991.59	43	31.58	-0.35	0.14	0.64	1	5	33.15	-0.16	0.35	0.51	1	60
DEL9110	1	1991	259	1991.71	83	31.92	-0.33	0.12	0.71	0	75	32.71	-0.46	0.12	0.68	0	10
ALB9202	1	1992	46	1992.13	47	33.10	-0.47	0.16	0.66	0	36	33.47	-0.23	0.15	0.74	0	10
ALB9203	1	1992	69	1992.19	72	32.74	-0.34	0.12	0.89	0	63	33.11	-0.31	0.12	0.83	0	10
DEL9205	1	1992	91	1992.25	6	33.31	-0.23	0.41	0.39	1	0	0.00	-9.99	-9.99	-9.99	1	93
DEL9206	1	1992	168	1992.46	54	31.50	-0.33	0.15	1.07	0	54	32.41	-0.67	0.13	0.59	0	50
ORE9204	1	1992	218	1992.60	48	31.08	-0.82	0.13	0.50	1	45	33.04	-0.21	0.12	0.48	1	60
ALB9211	1	1992	262	1992.72	53	31.68	-0.60	0.15	0.76	0	45	32.43	-0.79	0.15	0.57	0	10
DEL9301	1	1993	20	1993.05	10	32.78	-0.60	0.32	0.53	1	7	32.79	-0.73	0.30	0.47	1	24
ALB9303	1	1993	40	1993.11	57	32.99	-0.53	0.13	0.62	0	50	33.06	-0.60	0.12	0.41	0	10
ALB9304	1	1993	78	1993.21	81	31.82	-1.08	0.12	1.36	0	73	32.64	-0.75	0.11	0.93	0	10
ALB9305	1	1993	131	1993.36	10	33.21	0.83	0.36	-9.99	1	0	0.00	-9.99	-9.99	-9.99	1	1
ORE9304	1	1993	217	1993.59	49	31.05	-0.93	0.13	0.41	1	47	33.22	-0.18	0.12	0.58	1	60
DEL9311	1	1993	257	1993.70	80	31.70	-0.43	0.11	0.85	0	69	32.70	-0.42	0.11	0.69	0	10
DEL9402	1	1994	35	1994.10	61	33.13	-0.45	0.13	0.57	0	53	33.59	-0.05	0.12	0.51	0	10
DEL9403	1	1994	68	1994.19	81	32.36	-0.79	0.11	1.50	0	72	32.73	-0.71	0.11	0.96	0	10
ALB9405	1	1994	178	1994.49	60	30.82	-1.18	0.12	0.50	1	55	33.80	0.40	0.11	0.74	1	60
DEL9407	1	1994	213	1994.58	76	32.30	0.60	0.14	1.34	0	75	33.45	0.43	0.12	0.86	0	50
ALB9409	1	1994	258	1994.71	83	32.63	0.39	0.11	1.34	0	75	33.10	-0.09	0.11	0.87	0	10
ALB9503	1	1995	44	1995.12	29	33.98	0.38	0.19	0.70	1	25	34.04	0.45	0.16	0.50	1	10

REL9501	1	1995	78	1995.21	36	33.45	0.55	0.25	0.99	1	10	33.90	0.42	0.28	0.59	1	93
ALB9504	1	1995	78	1995.21	28	33.62	0.51	0.18	0.69	0	26	33.50	0.20	0.17	0.59	1	10
ALB9507	1	1995	174	1995.48	41	32.35	0.28	0.15	0.37	1	39	33.40	-0.11	0.14	0.48	1	60
PE9501	1	1995	197	1995.54	12	33.21	0.89	0.26	1.20	1	1	32.92	-1.11	-9.99	-9.99	1	93
ALB9512	1	1995	256	1995.70	61	32.66	0.52	0.14	0.63	0	56	32.53	-0.18	0.12	0.56	1	10
ALB9603	1	1996	42	1996.12	67	32.83	-0.82	0.13	0.95	0	58	33.60	-0.12	0.12	0.71	0	10
ALB9604	1	1996	80	1996.22	98	32.85	-0.20	0.10	0.89	0	90	33.13	-0.31	0.10	0.72	0	10
ALB9609	1	1996	216	1996.59	130	30.62	-1.28	0.08	0.42	1	97	32.51	-0.84	0.08	0.43	1	60
ALB9611	1	1996	259	1996.71	84	30.65	-1.53	0.11	1.30	0	73	31.77	-1.40	0.11	0.73	0	10
ALB9703	1	1997	39	1997.11	56	32.40	-1.30	0.14	0.54	0	42	32.71	-0.99	0.14	0.48	0	10
ALB9704	1	1997	69	1997.19	82	31.75	-1.31	0.11	1.13	0	73	32.59	-0.83	0.11	1.33	0	10
DEL9705	1	1997	72	1997.20	18	30.27	-2.01	0.26	2.22	1	17	30.60	-2.11	0.22	2.52	1	93
DEL9706	1	1997	146	1997.40	14	31.20	-0.22	0.25	0.30	1	14	31.92	-0.59	0.21	0.60	1	70
DEL9707	1	1997	171	1997.47	16	30.65	-0.95	0.24	1.00	1	16	31.91	-0.91	0.20	0.18	1	50
ALB9711	1	1997	257	1997.70	77	31.79	-0.45	0.12	1.04	0	70	32.58	-0.62	0.11	0.71	0	10
ALB9803	1	1998	43	1998.12	51	32.78	-0.89	0.14	0.78	0	43	33.11	-0.69	0.13	0.78	0	10
ALB9804	1	1998	67	1998.18	77	32.01	-1.00	0.12	1.28	0	70	32.26	-0.83	0.11	0.79	1	10
DEL9804	1	1998	77	1998.21	9	32.56	-0.85	0.32	0.34	1	6	32.47	-0.88	0.30	0.32	1	93
DEL9806	1	1998	145	1998.40	19	29.62	-2.19	0.26	2.03	1	19	31.29	-1.87	0.21	0.56	1	82
ALB9807	1	1998	149	1998.41	40	31.08	-1.06	0.17	1.03	0	36	31.99	-1.28	0.15	0.57	0	22
AJ9801	1	1998	196	1998.54	6	31.48	-1.07	0.39	0.27	1	1	32.53	-0.58	-9.99	-9.99	1	93
ALB9809	1	1998	207	1998.57	42	30.08	-1.81	0.15	0.56	1	41	32.58	-0.85	0.13	0.48	1	60
ALB9811	1	1998	270	1998.74	77	31.24	-1.07	0.11	0.76	0	71	32.09	-1.21	0.11	0.80	0	10
DEL9813	1	1998	309	1998.85	39	31.82	-1.05	0.17	0.34	0	37	32.01	-1.36	0.15	0.49	0	22
ALB9902	1	1999	37	1999.10	60	32.62	-0.95	0.14	0.51	0	45	32.80	-0.84	0.14	0.39	0	10
ALB9903	1	1999	71	1999.19	80	32.37	-0.67	0.11	0.96	0	70	33.03	-0.37	0.11	1.24	0	10
DEL9907	1	1999	157	1999.43	5	31.16	-0.40	0.43	0.11	1	5	31.92	-0.38	0.37	0.39	1	50
ALB9909	1	1999	202	1999.55	57	32.27	0.35	0.12	0.81	1	57	34.13	0.75	0.11	0.78	1	60
ALB9910	1	1999	270	1999.74	81	32.75	0.39	0.11	1.42	0	74	33.46	0.28	0.11	1.26	0	10
NP9901	1	1999	313	1999.86	26	33.62	0.53	0.21	0.81	0	23	34.23	0.75	0.18	0.62	0	22
ALB0001	1	2000	47	2000.13	63	34.50	0.81	0.13	0.48	0	52	34.53	0.77	0.12	0.42	0	10
ALB0002	1	2000	82	2000.22	78	33.51	0.59	0.12	0.98	0	70	33.68	0.31	0.11	0.90	0	10
DEL0006	1	2000	146	2000.40	31	32.45	0.27	0.18	0.75	0	28	33.39	0.16	0.16	0.55	0	22
ALB0004	1	2000	200	2000.55	43	32.21	0.27	0.14	0.83	1	43	33.35	0.05	0.12	0.55	1	60
ALB0006	1	2000	256	2000.70	79	32.53	0.33	0.11	1.54	0	73	32.69	-0.53	0.11	1.00	0	10
ALB0007	1	2000	307	2000.84	33	33.10	0.20	0.19	0.47	0	33	33.10	-0.26	0.14	0.53	1	22
ALB0102	1	2001	35	2001.10	66	33.39	-0.27	0.12	0.61	0	54	33.53	-0.13	0.12	0.48	0	10
DEL0101	1	2001	46	2001.12	18	33.64	-0.51	0.23	0.34	1	7	33.87	-0.12	0.31	0.52	1	16
ALB0103	1	2001	70	2001.19	86	32.74	-0.41	0.11	1.12	0	78	33.21	-0.26	0.11	0.70	0	10
ALB0106	1	2001	141	2001.39	39	32.15	-0.12	0.16	0.48	1	36	32.67	-0.57	0.14	0.29	1	22
DEL0104	1	2001	141	2001.39	17	31.55	-0.31	0.28	1.18	1	17	32.30	-0.85	0.22	0.56	1	82
ALB0107	1	2001	188	2001.52	52	31.41	-0.58	0.13	0.54	1	51	33.28	-0.09	0.12	0.56	1	60
ALB0110	1	2001	255	2001.70	82	32.52	0.32	0.11	1.11	0	75	32.83	-0.28	0.12	0.59	0	10
ALB0111	1	2001	305	2001.83	32	33.49	0.64	0.19	0.52	0	32	33.69	0.37	0.16	0.52	0	22
ALB0203	1	2002	45	2002.12	84	34.46	0.50	0.11	0.72	1	62	34.43	0.59	0.11	0.65	1	10
DEL0201	1	2002	55	2002.15	24	33.88	0.19	0.20	0.58	1	16	33.94	0.43	0.19	0.42	1	16
ALB0204	1	2002	78	2002.21	80	33.78	0.80	0.11	0.83	0	75	33.90	0.45	0.11	0.62	0	10
ALB0206	1	2002	144	2002.40	38	33.21	1.02	0.16	0.61	0	37	33.78	0.43	0.14	0.37	0	22
ALB0208	1	2002	204	2002.56	46	32.07	0.18	0.14	0.56	1	46	33.42	0.09	0.12	0.51	1	60
NOB0201	1	2002	228	2002.62	33	32.41	0.59	0.18	0.70	0	32	33.29	0.30	0.15	0.49	1	22
ALB0210	1	2002	255	2002.70	77	32.41	0.30	0.11	0.60	0	72	32.80	-0.28	0.11	0.54	0	10
DEL0210	1	2002	304	2002.83	34	33.22	0.46	0.17	0.56	0	33	33.28	0.00	0.15	0.60	0	22
OC384	1	2002	302	2002.83	14	34.69	0.44	0.26	0.43	1	1	35.11	-0.26	-9.99	-9.99	1	91
DEL0302	1	2003	47	2003.13	52	34.10	0.47	0.14	0.52	0	38	34.28	0.56	0.14	0.40	0	10
DEL0303	1	2003	75	2003.21	64	33.03	0.04	0.13	1.99	0	62	33.55	0.14	0.11	1.52	0	10
ALB0301	1	2003	214	2003.59	52	31.34	-0.66	0.13	0.57	1	55	33.51	0.10	0.11	0.48	1	60
ALB0306	1	2003	308	2003.84	5	33.34	0.01	0.40	0.56	1	2	33.74	0.49	-9.99	-9.99	1	22