

Western Iceland Sea

- Greenland Sea Project -

CTD Data Report

Joint Danish Icelandic Cruise

R/V Bjarni Sæmundsson

September 1989

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Table of contents

Ágrip (Icelandic Summary).....p.	3
Introduction.....p.	5
Instrumentation and methods.....p.	5
Water masses in the Iceland Sea.....p.	6
Acknowledgement.....p.	7
Figures.....p.	8
References.....p.	14
Table of stations.....p.	15
Data tables.....p.	16

Ágrip

Þessi skýrsla inniheldur hafaðlisfræðigögn frá Íslandshafi. Þau eru hiti og selta sem fall af dýpi (töflur og myndir) og afleiddar stærðir, svo sem eðlisþyngd. Sýnum var safnað með síritandi sondu, CTD, í september 1989 í leiðangri á R/S Bjarna Sæmundssyni í vestur hluta Íslandshafs, frá Grænlandssundi norður fyrir Jan Mayen (72°30'N) og vestan Kolbeinseyjarhryggjar. Danir (Grønlands Fiskeri og Miljø Undersøgelser) og Íslendingar (Hafrannsóknastofnun) áttu samvinnu um þessar rannsóknir sem voru hluti af 5 ára alþjóðlegum hafrannsóknum (1987-1991) sem ganga undir heitinu "Greenland Sea Project". Hliðstæðar skýrslur frá 1987 og 1988 hafa komið út, (S.S. Kristmannsson, S.A. Malmberg & J. Briem 1989 og S.S. Kristmannsson, S.A. Malmberg, J. Briem og E. Buch 1991).

Introduction

In September 1989 a third joint Danish-Icelandic hydro-biological survey was carried out by scientists aboard the Icelandic research vessel BJARNI SÆMUNDSSON in the western Iceland Sea in the area between Jan Mayen, East Greenland and Iceland, (Fig. 1). These investigations were a part of the international GREENLAND SEA PROJECT, GSP, initiated by the Arctic Ocean Science Board (AOSB) in 1987. Several GSP reports have been published. They include objectives of the program (Anon. 1987), investigations performed in 1989 (Malmberg and Buch 1991), CTD data reports from the investigations in 1987 and 1988 (Kristmannsson et.al. 1989, Kristmannsson et.al. 1991) and some general results (Anon. 1991).

The present publication is a report of CTD data collected during the 1989 cruise. It consists of data lists of temperature (in situ and potential), salinity, potential density and specific volume anomaly as a function of depth. Also included are figures of the water mass distribution (Figs. 3,4) and the vertical structure of temperature and salinity from chosen sections (Figs. 5-7). First, a short description of instrumentation and an outline of data-handling methods are given.

Instrumentation and methods

The CTD system used was a Sea Bird Electronics SBE-9 underwater unit with a 12 water bottle rosette. The temperature was measured with a SBE-3 thermometer, a glass-coated thermistor bead with an accuracy of $\pm 0.004^{\circ}\text{C}$. The conductivity was measured with a SBE-4 conductivity meter which is a 2-terminal platinum electrode cell and a flow-through type. The accuracy is 0.003 S/m, (Siemens per meter). The conductivity cell was used with a submersible pump, SBE-5, to match the dynamic response of the cell to that of the temperature sensor. In this way the "salinity spiking" phenomenon was reduced. The pressure was measured by a Digiquartz Pressure Transducer with an accuracy of 0.05% of full scale. The SBE-CTD together with a rosette was operated from a winch with a conducting wire lowered at approximately 1 m/s and only downcast profiles were used in the analysis. Calibration samples for salinity were collected at each station and at fewer ones for temperature. Calibration temperatures were recorded at sea by reversing thermometers from Gohla Precision, Kiel. Calibration salinities were determined ashore, one month after the cruise, with a Guildline-8400 salinometer using IAPSO (batch # 106) standard water as a reference.

The editing and filtering of the CTD downcast data was performed according to the following guidelines of UNESCO (1988):

1. Scaling of independent variables, pressure in decibars, temperature in $^{\circ}\text{C}$ and conductivity in S/m. This was done with software provided by Sea Bird Electronics.

2. Erroneous values (out of range) and unrealistic discontinuities were replaced by adjacent or linearly interpolated values.
3. Smoothing of temperature and conductivity by curve fitting through a small section of dataset.
4. Smoothing of pressure by low-pass filtering.
5. Time lag correction for variables.
6. Averaging of variables to each decibar.
7. Calculation of salinity (UNESCO 1981) and potential temperature (Bryden 1973) and other dependent variables.
8. Calibration of salinities with respect to laboratory analysis of deep water samples. A plot of the SBE-CTD salinities vs. the laboratory analysed salinities is shown in Figure 2. Also shown is the estimated correction line:

$$\text{Salinity(SBE-CTD)} = \text{Salinity(Hydrography)} - 0.022$$

Temperature comparison of SBE-CTD with reversing thermometers showed no significant difference.

Water Masses in the Iceland Sea

The main water masses observed in the study area are as follows (Stefánsson 1962, Swift 1986):

Polar Water of the East Greenland Current. In shallow waters with temperatures below 0°C and salinity less than 34.4.

Deep Water. A cold water mass often referred to as the Norwegian Sea Bottom Water found below 600 m depth with temperatures below 0°C and salinity > 34.9.

Arctic Intermediate Water. A water mass found between Polar Water and Deep Water with temperatures of about 0-1°C and salinity 34.7-34.95.

A more detailed analysis of the water masses shows further differences depending on their regional origin and their time histories. For example, three different deep water masses are evident in the data (Fig. 4). They are Greenland Sea

Deep Water (GDW, $S=34.895$), Norwegian Sea Deep Water (NDW, $S=34.91$) and Arctic Basin Deep Water (ADW, $S=34.925$), (Swift & Koltermann 1988, Malmberg, Kristmannsson & Buch 1990).

Acknowledgement

The joint Danish-Icelandic contribution to the Greenland Sea Project was made possible with contributions from the Icelandic Althing, the Danish National Science Council, the Danish Council for Scientific and Industrial Research and the Commission for Scientific Research in Greenland. We wish to thank the captain and the crew of R/V Bjarni Sæmundsson for their support and also, participating colleagues. The important salinity analysis ashore by Sigbrúður Jónsdóttir is greatly appreciated. Figures were kindly drawn by Ingibjörg Jónsdóttir.

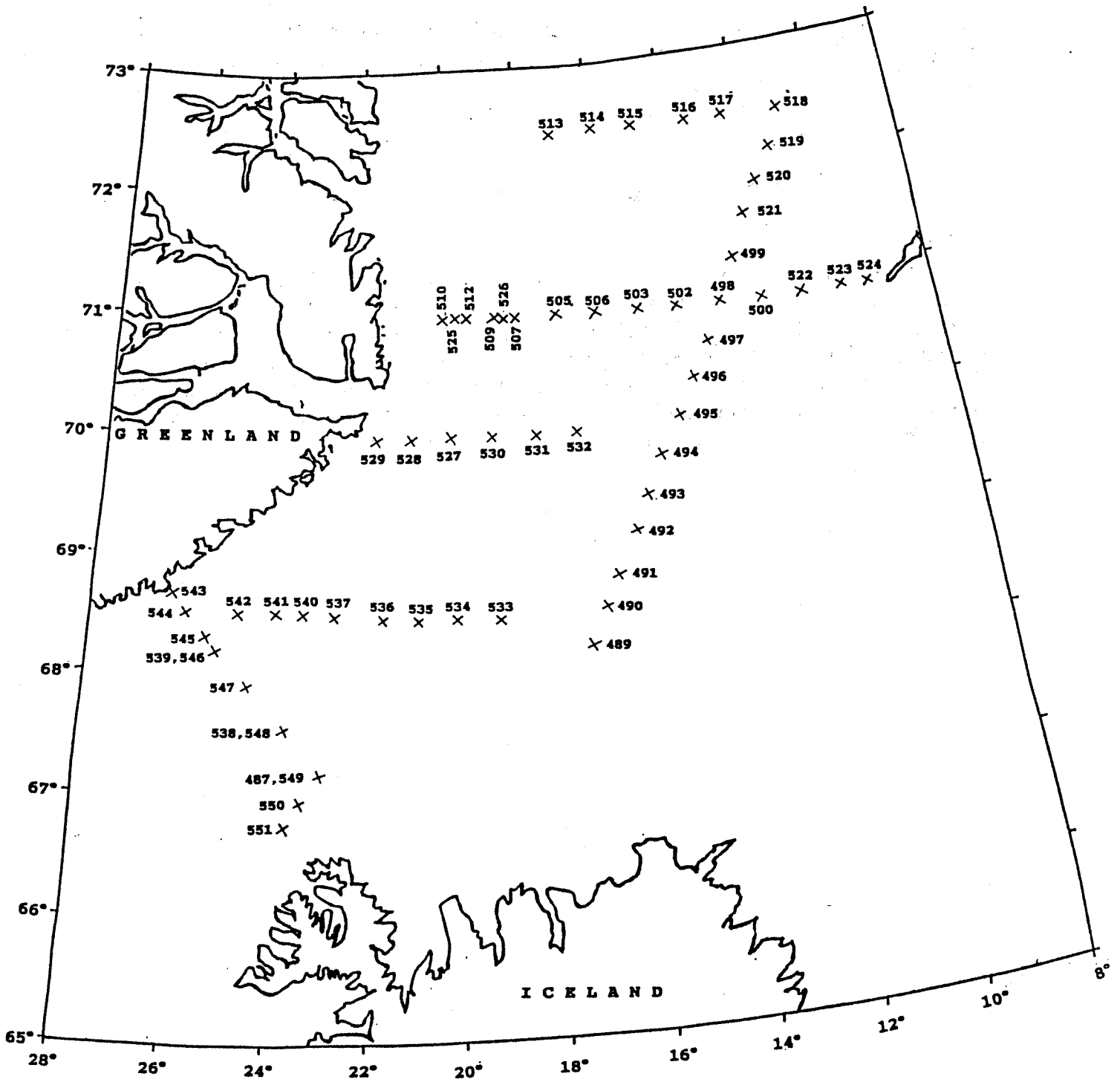


Figure 1. Location of CTD stations by R/V Bjarni Sæmundsson from the GSP program in September 1989.

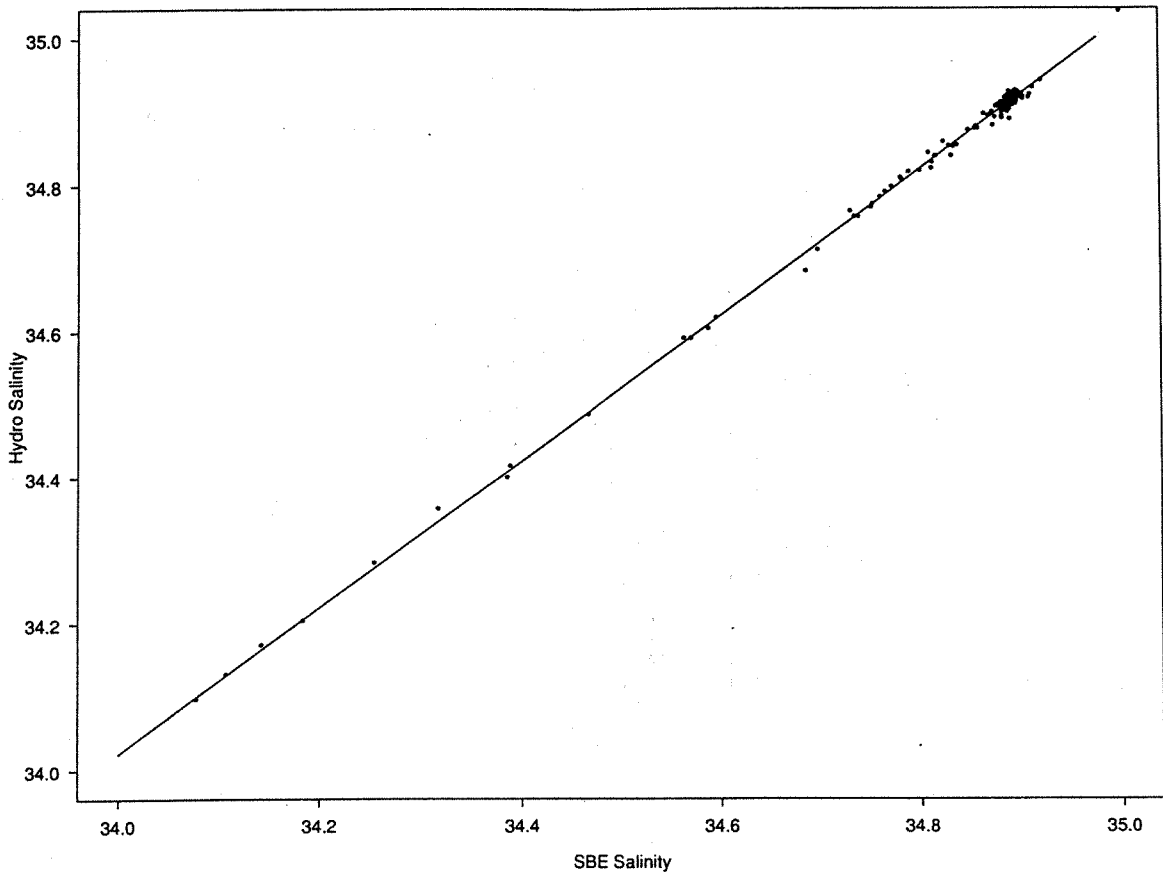


Figure 2. Distribution of hydro salinity vs. CTD salinity and a correction line.

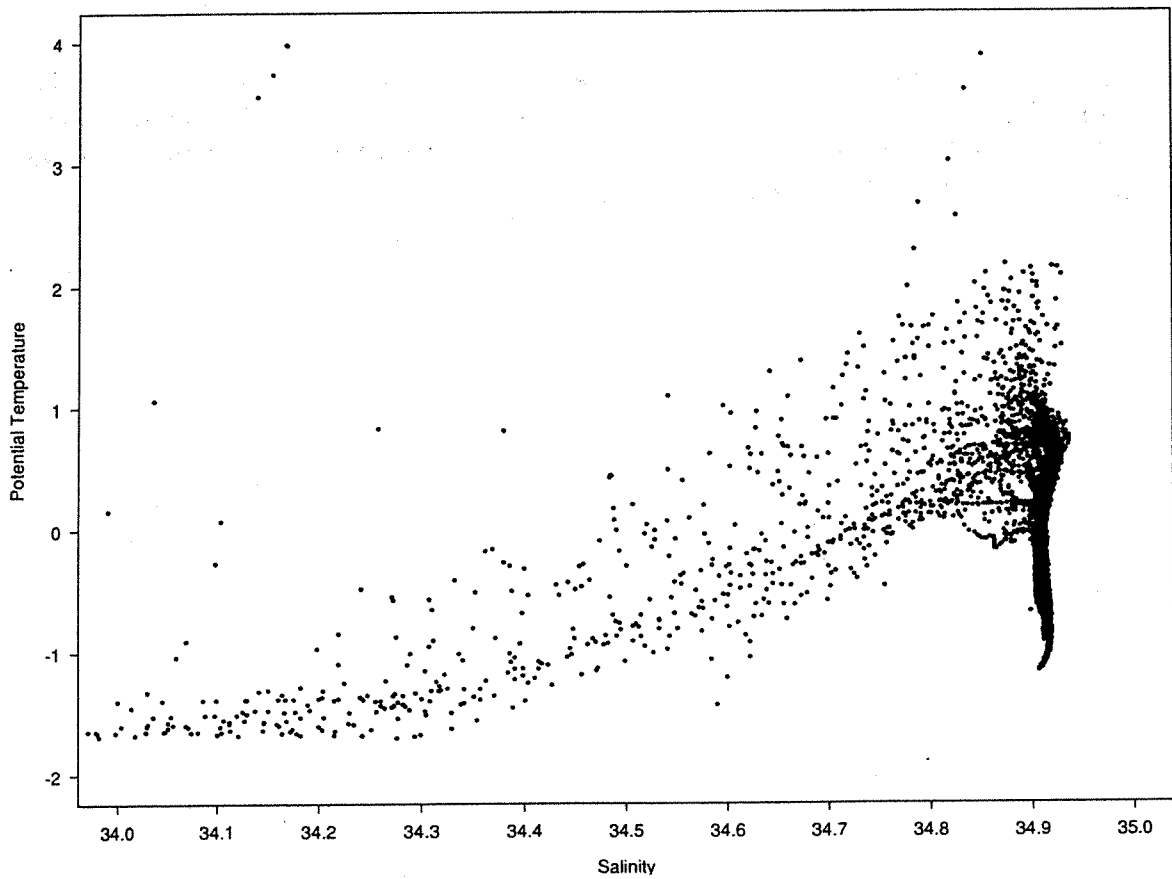


Figure 3. A subset of potential temperature vs. salinity from the SBE-CTD in September 1989.

GSP 1989

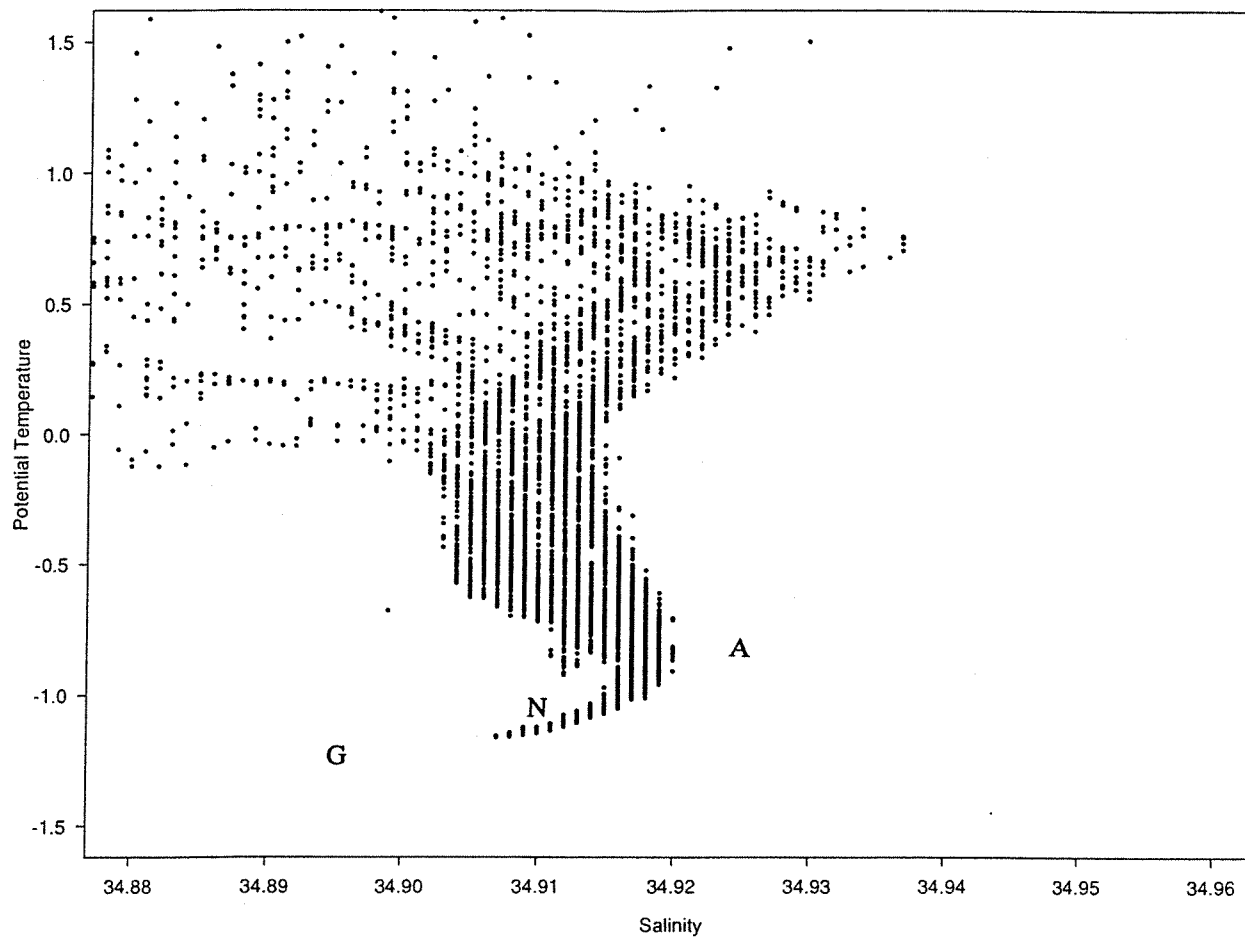


Figure 4. A subset of potential temperature vs. salinity from the SBE-CTD in September 1989. Deep water mass definitions of Swift & Koltermann (1988) are indicated: GDW (Greenland Sea Deep Water), NDW (Norwegian Sea Deep Water) and ADW (Arctic Basin Deep Water).

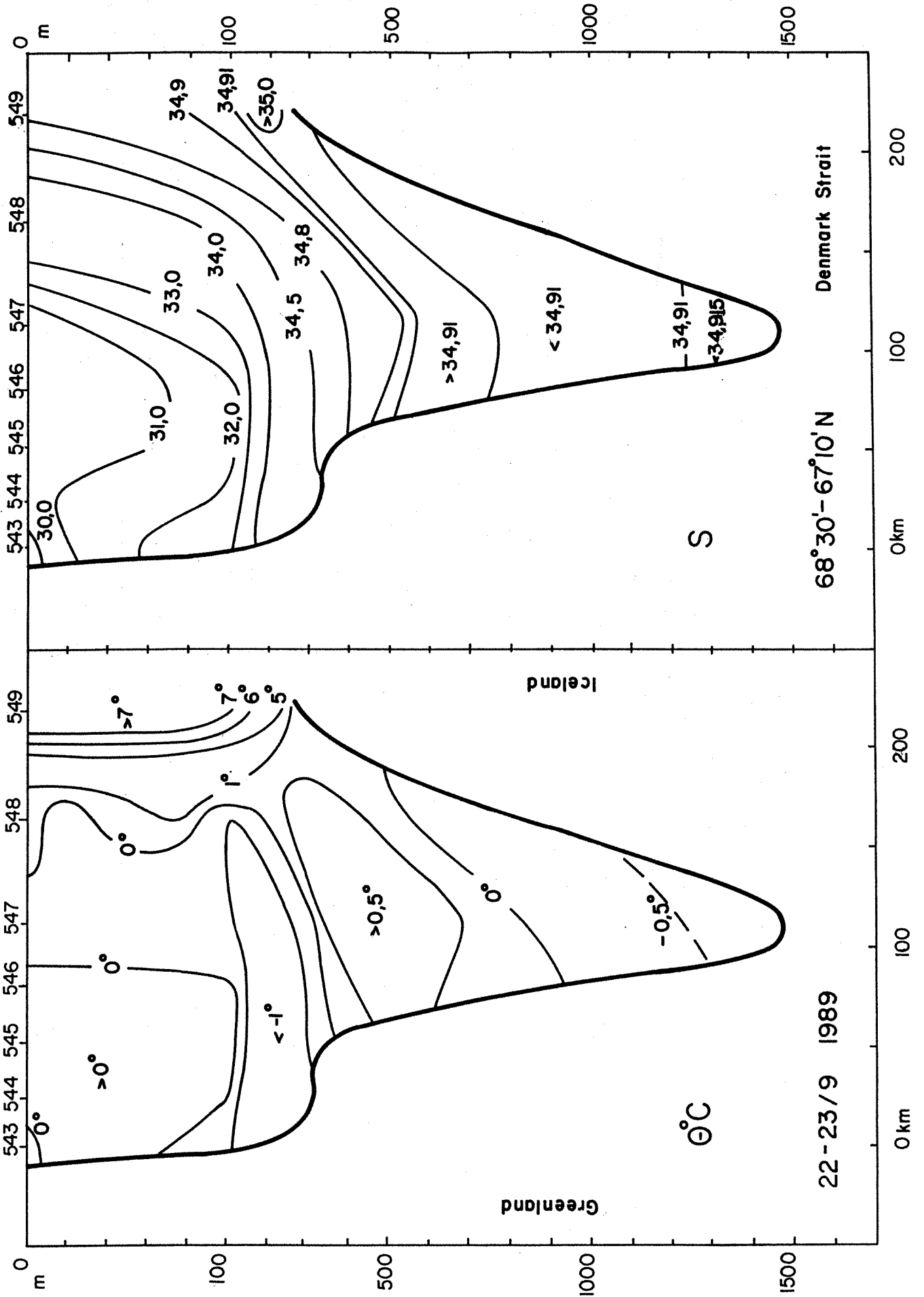


Figure 5. Potential temperature and salinity from Denmark Strait section, from 67°08'N-22°53'W to 68°38'N-26°18'W.

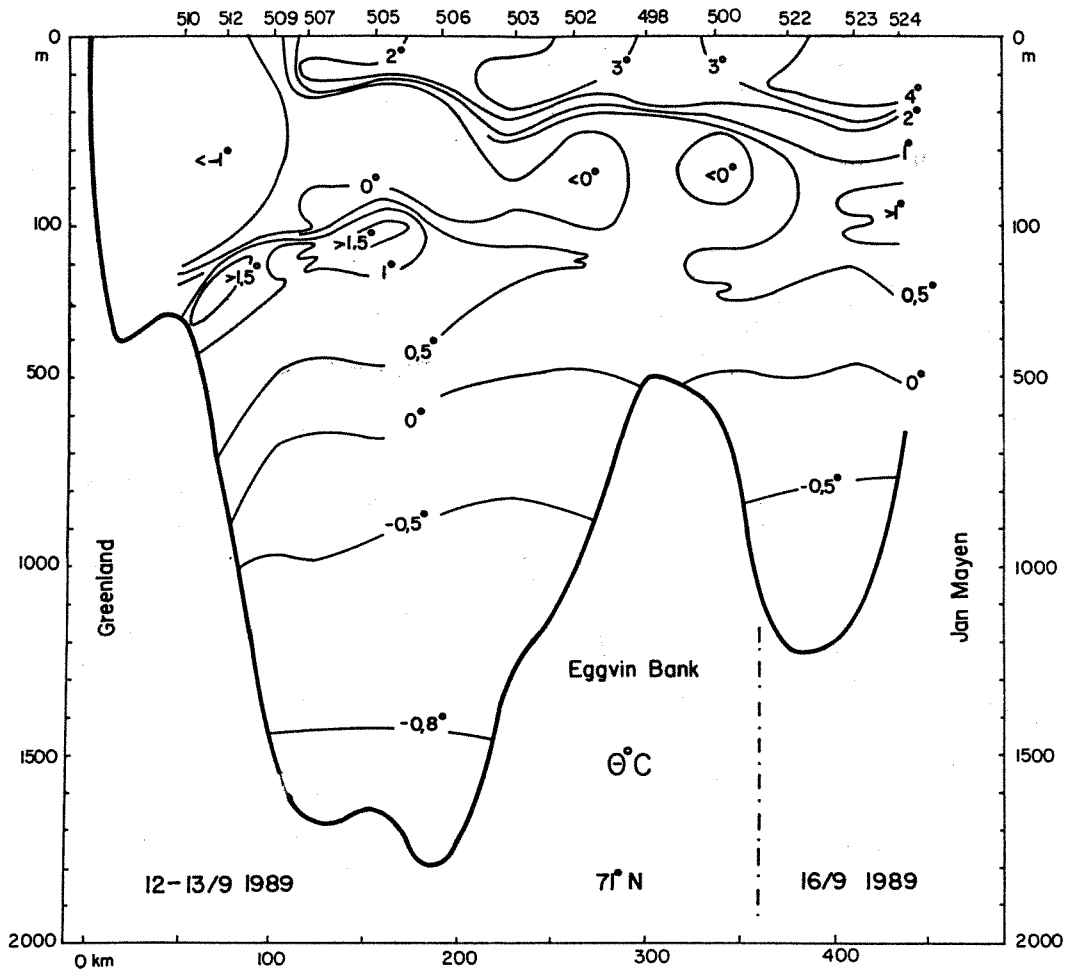


Figure 6(a). Potential temperature from Greenland-Jan Mayen section at $71^\circ 00' \text{N}$.

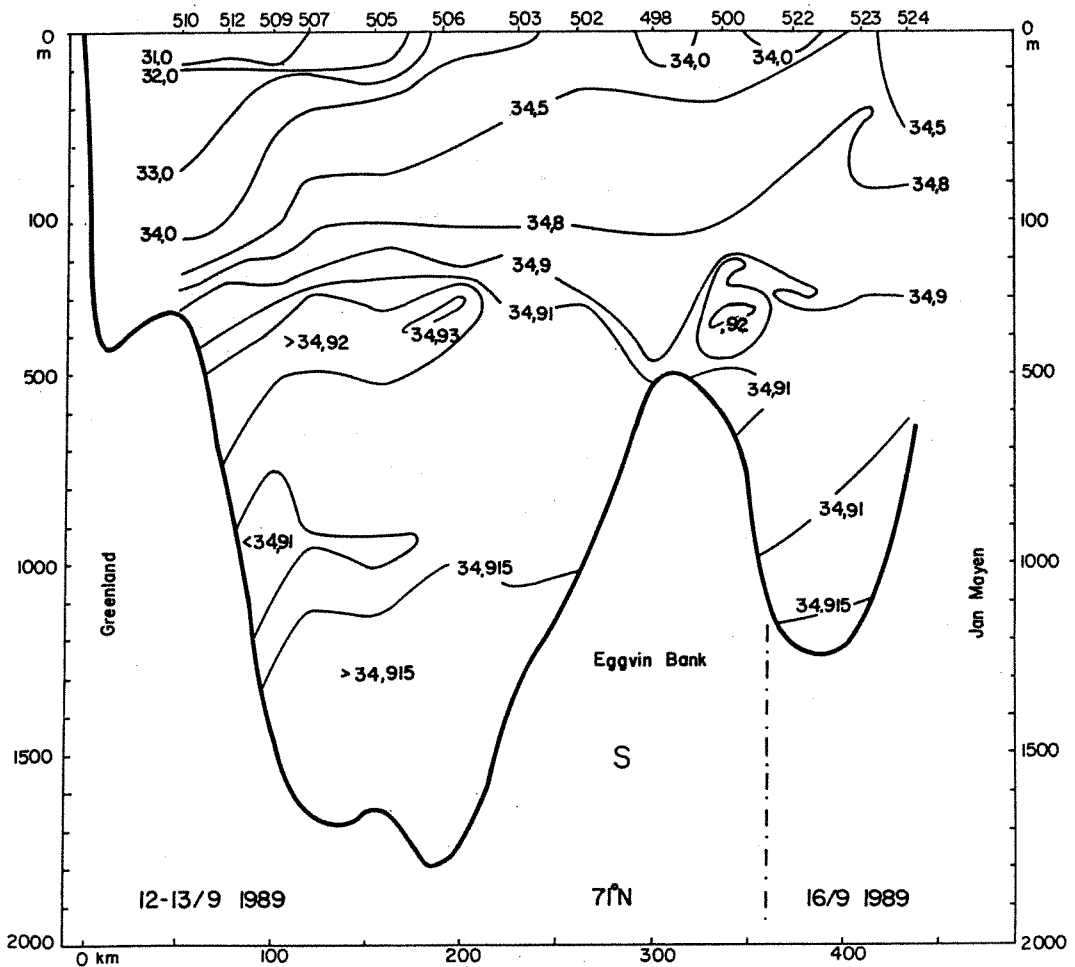


Figure 6(b). Salinity from Greenland-Jan Mayen section at $71^\circ 00' \text{N}$.

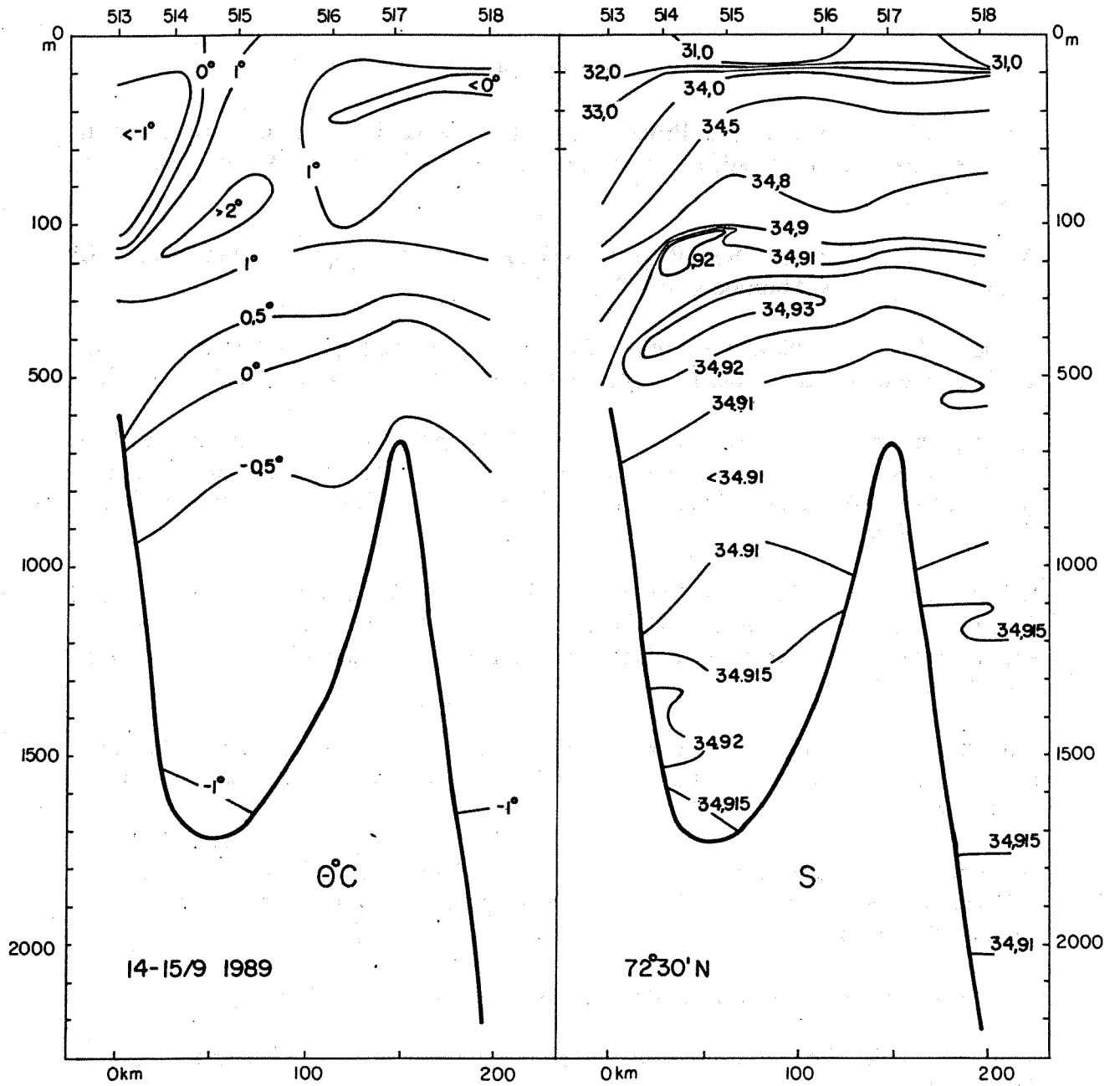


Figure 7. Potential temperature and salinity from Greenland Sea section at 72°30'N.

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Table 1. R/V Bjarni Sæmundsson GSP-1989 CTD stations

Station	Date	Hour	Depth, m	Latitude N	Longitude W
487	9	1840	250	67°09'	22°54'
489	10	1541	1307	68°13'	17°00'
490	10	1940	750	68°33'	16°38'
491	10	2215	1275	68°50'	16°15'
492	11	0150	1095	69°09'	15°50'
493	11	0452	1058	69°28'	15°26'
494	11	0803	1200	69°46'	15°03'
495	11	1102	1310	70°04'	14°36'
496	11	1420	1053	70°23'	14°11'
497	11	1720	1511	70°42'	13°45'
498	11	2053	490	70°59'	13°19'
499	12	0035	1303	71°22'	12°47'
500	12	0437	611	71°00'	12°15'
502	12	1102	1022	70°59'	14°21'
503	12	1342	1302	71°00'	15°17'
505	12	2054	1636	71°01'	17°18'
506	13	0017	1800	71°00'	16°16'
507	13	0633	1680	71°00'	18°16'
509	13	1115	1400	70°59'	18°50'
510	13	1640	358	71°00'	19°54'
512	13	1933	830	70°59'	19°18'
513	14	1038	605	72°30'	17°15'
514	14	1406	1623	72°30'	16°05'
515	14	1729	1800	72°30'	15°05'
516	14	2243	1310	72°30'	13°34'
517	15	0156	670	72°30'	12°35'
518	15	0523	2140	72°30'	11°06'
519	15	0927	2140	72°13'	11°30'
520	15	1446	2330	71°55'	12°00'
521	15	1809	2570	71°41'	12°21'
522	16	0010	1218	71°00'	11°14'
523	16	0349	1150	71°00'	10°12'
524	16	0607	642	71°00'	09°30'
525	17	1350	860	70°59'	19°28'
526	18	0928	1402	70°59'	18°49'
527	18	2127	271	70°00'	19°55'
528	18	2358	388	70°00'	20°50'
529	19	0703	511	70°00'	21°26'
530	19	1503	875	70°00'	18°55'
531	19	1855	1618	70°00'	17°56'
532	19	2341	1270	70°00'	16°57'
533	20	1052	827	68°30'	18°55'
534	20	1432	1173	68°30'	19°50'
535	20	1827	1084	68°30'	20°43'
536	20	2134	1132	68°30'	21°38'
537	21	0049	1425	68°30'	22°35'
538	21	0840	805	67°32'	23°45'
539	21	1634	830	68°08'	25°14'
540	21	2336	1450	68°30'	23°31'
541	22	0357	624	68°30'	24°25'
542	22	0757	252	68°30'	25°20'
543	22	1103	137	68°38'	26°18'
544	22	1819	321	68°30'	25°55'
545	22	2030	315	68°18'	25°27'
546	22	2240	830	68°08'	25°14'
547	23	0353	1435	67°53'	24°39'
548	23	1051	802	67°31'	23°46'
549	23	1728	241	67°08'	22°53'
550	23	2021	225	66°53'	23°18'
551	23	2207	72	66°41'	23°09'
552	23	2335	47	66°30'	23°00'

SBE-CTD data tables:

Heading indicates name of station, B for R/V Bjarni Sæmundsson and 89.487-552 for the year and consecutive station numbers, as shown in Figure 1. The variables presented and units used are the following:

depth, in decibars.

temp, *in situ* temperature in °C.

theta, potential temperature in °C.

salnty, salinity in parts per thousand.

sig_th, potential density -1000 kg/m³.

delta, specific volume anomaly x 10⁻⁸m³/kg.

B89.487					
depth	temp	theta	salnty	sig_th	delta
5	5.022	5.021	34.274	27.097	95.62
10	4.978	4.977	34.264	27.095	95.92
15	5.007	5.005	34.270	27.096	95.84
20	4.973	4.972	34.266	27.097	95.83
25	5.015	5.013	34.286	27.108	94.88
30	5.149	5.147	34.314	27.114	94.31
35	5.350	5.348	34.351	27.120	93.85
40	5.532	5.529	34.402	27.139	92.16
45	5.336	5.332	34.450	27.201	86.34
50	5.077	5.073	34.476	27.252	81.53
55	4.981	4.976	34.492	27.276	79.33
60	4.982	4.977	34.533	27.307	76.37
65	4.840	4.835	34.571	27.354	72.00
70	4.575	4.570	34.595	27.403	67.39
75	4.503	4.497	34.812	27.583	50.38
80	4.436	4.430	34.844	27.616	47.30
85	4.157	4.151	34.856	27.656	43.52
90	3.892	3.886	34.852	27.681	41.19
95	3.799	3.792	34.843	27.683	40.99
100	3.612	3.605	34.835	27.695	39.82
110	3.030	3.024	34.819	27.738	35.69
120	2.681	2.674	34.789	27.746	34.92
130	2.300	2.293	34.785	27.775	32.10
140	1.998	1.991	34.778	27.794	30.26
150	1.674	1.666	34.773	27.816	28.12
160	1.231	1.223	34.776	27.850	24.72
170	0.893	0.886	34.790	27.884	21.43
180	0.852	0.844	34.804	27.899	20.06
190	0.659	0.651	34.818	27.922	17.76
200	0.472	0.464	34.828	27.941	15.84
210	0.415	0.406	34.830	27.947	15.35
220	0.248	0.239	34.848	27.970	13.01

B89.489					
depth	temp	theta	salnty	sig_th	delta
5	3.652	3.652	34.095	27.101	95.22
10	3.650	3.649	34.097	27.103	95.09
15	3.606	3.605	34.104	27.113	94.19
20	3.563	3.561	34.104	27.117	93.83
25	3.392	3.391	34.170	27.186	87.30
30	2.650	2.649	34.365	27.409	66.20
35	0.742	0.740	34.642	27.774	31.47
40	0.692	0.690	34.602	27.746	34.20
45	0.597	0.595	34.778	27.893	20.23
50	0.351	0.349	34.732	27.871	22.32
55	-0.479	-0.481	34.771	27.945	15.16
60	-0.460	-0.462	34.755	27.932	16.45
65	-0.470	-0.472	34.758	27.935	16.13
70	-0.400	-0.403	34.728	27.907	18.76
75	-0.321	-0.323	34.721	27.898	19.64
80	-0.167	-0.170	34.735	27.901	19.37
85	-0.126	-0.129	34.747	27.909	18.62
90	-0.036	-0.039	34.763	27.917	17.91
95	-0.003	-0.006	34.777	27.926	17.02
100	0.049	0.045	34.783	27.928	16.83
110	0.184	0.180	34.803	27.938	15.99
120	0.268	0.264	34.824	27.949	14.94
130	0.346	0.341	34.842	27.960	14.01
140	0.437	0.431	34.855	27.965	13.56
150	0.494	0.488	34.868	27.972	12.91
160	0.443	0.436	34.883	27.987	11.50
170	0.491	0.484	34.882	27.984	11.82
180	0.376	0.369	34.890	27.997	10.58
190	0.413	0.405	34.888	27.993	10.96
200	0.518	0.510	34.894	27.991	11.16
210	0.528	0.519	34.907	28.001	10.26
220	0.480	0.471	34.913	28.009	9.52
230	0.433	0.423	34.910	28.009	9.45
240	0.394	0.384	34.900	28.004	9.93
250	0.381	0.370	34.902	28.006	9.75
260	0.378	0.367	34.911	28.014	9.07
270	0.348	0.336	34.909	28.014	9.00
280	0.300	0.289	34.911	28.019	8.53
290	0.203	0.191	34.903	28.018	8.57
300	0.230	0.217	34.904	28.017	8.66
310	0.136	0.123	34.901	28.020	8.32
320	0.216	0.203	34.893	28.009	9.44
330	0.199	0.186	34.903	28.018	8.58
340	0.150	0.136	34.902	28.020	8.35
350	0.099	0.085	34.898	28.019	8.36
360	0.006	-0.008	34.904	28.029	7.32
370	-0.012	-0.027	34.897	28.024	7.77
380	0.059	0.044	34.893	28.017	8.50
390	0.086	0.070	34.901	28.023	8.04
400	0.087	0.071	34.904	28.025	7.79
410	0.019	0.002	34.906	28.030	7.26
420	0.023	0.006	34.904	28.029	7.41
430	0.026	0.008	34.905	28.029	7.39
440	0.030	0.012	34.906	28.029	7.34
450	0.027	0.009	34.905	28.029	7.40

B89.489					
depth	temp	theta	salnty	sig_th	delta
460	0.018	-0.001	34.908	28.032	7.11
470	0.017	-0.002	34.908	28.032	7.10
480	0.013	-0.007	34.909	28.033	6.96
490	-0.008	-0.028	34.909	28.034	6.83
500	-0.023	-0.043	34.912	28.038	6.51
510	-0.035	-0.055	34.912	28.038	6.46
520	-0.053	-0.074	34.911	28.039	6.36
530	-0.059	-0.081	34.911	28.039	6.35
540	-0.080	-0.102	34.913	28.041	6.09
550	-0.093	-0.115	34.912	28.042	6.01
560	-0.108	-0.131	34.914	28.044	5.79
570	-0.129	-0.152	34.914	28.045	5.68
580	-0.141	-0.165	34.912	28.044	5.69
590	-0.153	-0.177	34.912	28.045	5.61
600	-0.181	-0.205	34.915	28.048	5.23
610	-0.207	-0.231	34.915	28.050	5.07
620	-0.227	-0.252	34.915	28.050	4.95
630	-0.240	-0.265	34.914	28.050	4.92
640	-0.263	-0.289	34.916	28.053	4.60
650	-0.286	-0.312	34.917	28.055	4.36
660	-0.296	-0.322	34.915	28.054	4.46
670	-0.310	-0.337	34.915	28.055	4.33
680	-0.316	-0.343	34.914	28.055	4.34
690	-0.324	-0.351	34.915	28.056	4.24
700	-0.331	-0.359	34.915	28.056	4.17
710	-0.344	-0.372	34.914	28.056	4.17
720	-0.362	-0.391	34.916	28.058	3.90
730	-0.367	-0.396	34.914	28.057	3.97
740	-0.377	-0.407	34.915	28.058	3.85
750	-0.390	-0.420	34.915	28.059	3.70
760	-0.400	-0.431	34.916	28.061	3.56
770	-0.407	-0.438	34.916	28.061	3.51
780	-0.421	-0.452	34.916	28.061	3.42
790	-0.434	-0.466	34.917	28.062	3.28
800	-0.437	-0.469	34.915	28.062	3.33
810	-0.448	-0.480	34.915	28.062	3.25
820	-0.452	-0.485	34.915	28.062	3.26
830	-0.462	-0.495	34.915	28.063	3.15
840	-0.473	-0.506	34.917	28.065	2.94
850	-0.481	-0.515	34.917	28.066	2.82
860	-0.486	-0.520	34.916	28.064	2.89
870	-0.491	-0.526	34.916	28.065	2.81
880	-0.497	-0.532	34.917	28.066	2.73
890	-0.503	-0.539	34.917	28.067	2.62
900	-0.511	-0.547	34.915	28.065	2.70
910	-0.518	-0.555	34.917	28.067	2.54
920	-0.522	-0.559	34.918	28.068	2.39
930	-0.528	-0.565	34.916	28.067	2.50
940	-0.532	-0.570	34.916	28.067	2.44
950	-0.538	-0.577	34.916	28.067	2.38
960	-0.544	-0.583	34.918	28.069	2.21
970	-0.548	-0.587	34.917	28.068	2.25
980	-0.555	-0.595	34.918	28.070	2.05
990	-0.559	-0.599	34.917	28.069	2.11
1000	-0.562	-0.603	34.917	28.069	2.07

B89.489					
depth	temp	theta	salnty	sig_th	delta
1010	-0.568	-0.609	34.919	28.071	1.90
1020	-0.570	-0.611	34.918	28.070	1.94
1030	-0.576	-0.618	34.916	28.069	1.98
1040	-0.580	-0.622	34.917	28.070	1.86
1050	-0.583	-0.626	34.918	28.071	1.79
1060	-0.586	-0.630	34.917	28.071	1.77
1070	-0.589	-0.633	34.918	28.071	1.72
1080	-0.594	-0.638	34.917	28.071	1.70
1090	-0.596	-0.641	34.917	28.071	1.69
1100	-0.600	-0.645	34.917	28.071	1.61
1110	-0.601	-0.647	34.917	28.071	1.63
1120	-0.609	-0.655	34.919	28.073	1.41
1130	-0.610	-0.657	34.917	28.072	1.48
1140	-0.613	-0.660	34.917	28.072	1.47
1150	-0.616	-0.664	34.918	28.073	1.35
1160	-0.616	-0.664	34.918	28.073	1.36
1170	-0.617	-0.666	34.917	28.072	1.36
1180	-0.618	-0.667	34.917	28.072	1.35
1190	-0.620	-0.670	34.918	28.073	1.29
1200	-0.623	-0.673	34.918	28.073	1.25
1210	-0.625	-0.676	34.917	28.072	1.29
1220	-0.629	-0.680	34.918	28.074	1.14
1230	-0.630	-0.682	34.918	28.074	1.10
1240	-0.632	-0.684	34.918	28.074	1.10
1250	-0.637	-0.690	34.919	28.075	0.98
1260	-0.646	-0.699	34.919	28.075	0.86
1270	-0.645	-0.699	34.918	28.074	0.95
1280	-0.646	-0.700	34.918	28.075	0.90
1290	-0.646	-0.701	34.918	28.075	0.87

B89.490					
depth	temp	theta	salnty	sig_th	delta
5	2.936	2.935	33.813	26.943	110.21
10	2.942	2.941	33.813	26.943	110.26
15	2.943	2.942	33.815	26.945	110.12
20	2.936	2.935	33.818	26.947	109.90
25	2.869	2.867	33.836	26.968	107.97
30	2.480	2.478	33.925	27.072	98.10
35	1.237	1.235	34.120	27.322	74.35
40	0.071	0.069	34.367	27.592	48.70
45	-0.249	-0.251	34.545	27.752	33.51
50	-0.297	-0.298	34.624	27.817	27.27
55	-0.439	-0.441	34.663	27.857	23.55
60	-0.545	-0.547	34.673	27.869	22.33
65	-0.577	-0.579	34.680	27.876	21.67
70	-0.578	-0.580	34.699	27.892	20.17
75	-0.448	-0.450	34.709	27.894	19.95
80	-0.365	-0.368	34.725	27.903	19.12
85	-0.161	-0.164	34.748	27.911	18.40
90	-0.118	-0.121	34.757	27.916	17.95
95	0.067	0.064	34.782	27.927	16.95
100	0.090	0.087	34.791	27.933	16.41
110	0.180	0.176	34.811	27.944	15.42
120	0.228	0.223	34.822	27.951	14.80
130	0.272	0.267	34.831	27.955	14.37
140	0.306	0.301	34.838	27.959	14.08
150	0.470	0.463	34.856	27.964	13.65
160	0.582	0.575	34.872	27.970	13.16
170	0.579	0.572	34.878	27.975	12.73
180	0.548	0.540	34.883	27.981	12.11
190	0.568	0.560	34.889	27.985	11.79
200	0.564	0.555	34.900	27.993	11.01
210	0.530	0.521	34.897	27.993	10.99
220	0.477	0.468	34.896	27.995	10.78
230	0.469	0.459	34.904	28.003	10.10
240	0.394	0.384	34.900	28.004	9.97
250	0.348	0.338	34.899	28.006	9.78
260	0.484	0.473	34.905	28.002	10.20
270	0.400	0.389	34.909	28.011	9.35
280	0.330	0.318	34.905	28.012	9.22
290	0.298	0.286	34.903	28.012	9.20
300	0.294	0.282	34.906	28.015	8.94
310	0.268	0.255	34.904	28.015	8.90
320	0.203	0.190	34.902	28.016	8.71
330	0.189	0.176	34.900	28.016	8.74
340	0.143	0.130	34.898	28.017	8.64
350	0.148	0.134	34.898	28.017	8.63
360	0.128	0.114	34.904	28.023	8.05
370	0.115	0.100	34.899	28.020	8.34
380	0.085	0.070	34.899	28.021	8.16
390	0.075	0.060	34.899	28.022	8.11
400	0.052	0.035	34.893	28.018	8.42
410	0.035	0.018	34.899	28.024	7.85
420	0.030	0.013	34.901	28.026	7.69
430	0.035	0.017	34.902	28.026	7.64
440	0.050	0.032	34.904	28.027	7.59
450	0.068	0.050	34.907	28.028	7.48

B89.490					
depth	temp	theta	salnty	sig_th	delta
460	0.052	0.033	34.911	28.032	7.10
470	0.019	0.000	34.911	28.034	6.89
480	0.004	-0.016	34.911	28.035	6.76
490	-0.018	-0.038	34.911	28.037	6.60
500	-0.030	-0.051	34.911	28.038	6.51
510	-0.053	-0.073	34.912	28.039	6.32
520	-0.072	-0.093	34.912	28.040	6.22
530	-0.100	-0.121	34.912	28.042	5.98
540	-0.116	-0.137	34.913	28.043	5.85
550	-0.131	-0.153	34.912	28.044	5.78
560	-0.152	-0.174	34.913	28.045	5.57
570	-0.178	-0.201	34.913	28.047	5.38
580	-0.192	-0.215	34.913	28.047	5.32
590	-0.196	-0.220	34.914	28.048	5.25
600	-0.213	-0.237	34.914	28.049	5.08
610	-0.227	-0.251	34.914	28.050	4.99
620	-0.247	-0.272	34.914	28.051	4.88
630	-0.261	-0.286	34.914	28.052	4.78
640	-0.298	-0.324	34.915	28.054	4.44
650	-0.333	-0.358	34.916	28.057	4.13
660	-0.344	-0.370	34.915	28.057	4.09
670	-0.355	-0.381	34.915	28.057	4.07
680	-0.373	-0.400	34.916	28.059	3.85
690	-0.382	-0.409	34.915	28.059	3.84
700	-0.399	-0.426	34.915	28.060	3.70
710	-0.423	-0.451	34.917	28.062	3.40
720	-0.450	-0.478	34.917	28.064	3.22

B89.491					
depth	temp	theta	salnty	sig_th	delta
5	2.787	2.787	33.901	27.027	102.26
10	2.848	2.847	33.927	27.043	100.80
15	2.806	2.805	33.945	27.060	99.17
20	2.983	2.982	34.098	27.166	89.14
25	1.423	1.422	34.422	27.552	52.59
30	1.121	1.119	34.514	27.647	43.56
35	0.732	0.731	34.656	27.787	30.33
40	0.524	0.522	34.730	27.859	23.45
45	0.334	0.333	34.749	27.885	20.95
50	0.172	0.170	34.774	27.915	18.13
55	0.134	0.132	34.786	27.926	17.07
60	0.133	0.131	34.786	27.926	17.08
65	0.131	0.129	34.787	27.928	16.93
70	0.127	0.124	34.801	27.939	15.86
75	0.124	0.122	34.806	27.943	15.46
80	0.125	0.122	34.808	27.944	15.34
85	0.122	0.118	34.810	27.947	15.12
90	0.119	0.116	34.815	27.951	14.74
95	0.119	0.116	34.819	27.954	14.44
100	0.137	0.133	34.828	27.960	13.89
110	0.189	0.184	34.848	27.973	12.64
120	0.114	0.109	34.854	27.982	11.78
130	0.070	0.065	34.854	27.985	11.50
140	0.051	0.045	34.859	27.990	10.99
150	0.158	0.152	34.868	27.991	10.96
160	0.133	0.127	34.869	27.994	10.69
170	0.153	0.146	34.876	27.998	10.33
180	0.153	0.146	34.877	27.999	10.20
190	0.186	0.179	34.881	28.000	10.12
200	0.119	0.111	34.879	28.003	9.86
210	-0.003	-0.011	34.873	28.005	9.62
220	0.037	0.029	34.876	28.005	9.62
230	-0.045	-0.054	34.874	28.008	9.32
240	-0.027	-0.036	34.875	28.007	9.36
250	-0.052	-0.062	34.876	28.009	9.14
260	-0.081	-0.091	34.875	28.010	9.02
270	-0.094	-0.105	34.875	28.011	8.96
280	-0.045	-0.056	34.879	28.011	8.94
290	-0.083	-0.094	34.880	28.014	8.67
300	-0.108	-0.120	34.880	28.015	8.52
310	-0.103	-0.115	34.884	28.019	8.20
320	-0.110	-0.122	34.882	28.017	8.33
330	-0.036	-0.049	34.886	28.017	8.41
340	-0.023	-0.036	34.890	28.020	8.20
350	-0.028	-0.041	34.891	28.021	8.08
360	-0.011	-0.025	34.895	28.023	7.93
370	-0.008	-0.023	34.897	28.025	7.73
380	-0.024	-0.039	34.899	28.027	7.51
390	-0.008	-0.024	34.900	28.027	7.52
400	-0.013	-0.029	34.903	28.029	7.31
410	-0.001	-0.017	34.906	28.031	7.15
420	-0.007	-0.024	34.906	28.032	7.07
430	-0.019	-0.036	34.908	28.034	6.85
440	-0.042	-0.059	34.908	28.035	6.73
450	-0.045	-0.063	34.909	28.036	6.63

B89.491					
depth	temp	theta	salnty	sig_th	delta
460	-0.064	-0.083	34.909	28.037	6.50
470	-0.058	-0.077	34.911	28.038	6.40
480	-0.088	-0.107	34.912	28.041	6.11
490	-0.106	-0.125	34.912	28.042	5.96
500	-0.128	-0.148	34.911	28.042	5.96
510	-0.163	-0.183	34.912	28.045	5.60
520	-0.179	-0.199	34.912	28.046	5.52
530	-0.195	-0.216	34.912	28.047	5.41
540	-0.218	-0.239	34.913	28.048	5.21
550	-0.234	-0.255	34.913	28.049	5.11
560	-0.255	-0.277	34.913	28.051	4.92
570	-0.268	-0.290	34.913	28.051	4.88
580	-0.277	-0.300	34.913	28.051	4.80
590	-0.290	-0.313	34.913	28.052	4.67
600	-0.305	-0.329	34.913	28.053	4.56
610	-0.321	-0.345	34.914	28.054	4.44
620	-0.331	-0.355	34.914	28.055	4.32
630	-0.342	-0.367	34.913	28.055	4.29
640	-0.354	-0.379	34.914	28.056	4.16
650	-0.373	-0.398	34.913	28.057	4.08
660	-0.380	-0.406	34.913	28.057	4.05
670	-0.386	-0.413	34.913	28.057	4.02
680	-0.395	-0.422	34.913	28.058	3.90
690	-0.405	-0.432	34.914	28.059	3.78
700	-0.423	-0.450	34.915	28.060	3.61
710	-0.431	-0.459	34.915	28.061	3.55
720	-0.447	-0.475	34.915	28.062	3.40
730	-0.456	-0.485	34.915	28.062	3.35
740	-0.465	-0.494	34.915	28.062	3.29
750	-0.477	-0.506	34.915	28.063	3.19
760	-0.486	-0.516	34.914	28.063	3.13
770	-0.491	-0.521	34.915	28.064	3.02
780	-0.494	-0.524	34.915	28.064	3.01
790	-0.498	-0.529	34.915	28.065	2.94
800	-0.504	-0.536	34.915	28.064	2.93
810	-0.512	-0.544	34.916	28.066	2.79
820	-0.523	-0.555	34.916	28.066	2.71
830	-0.529	-0.561	34.915	28.066	2.69
840	-0.534	-0.568	34.916	28.066	2.62
850	-0.540	-0.574	34.915	28.067	2.58
860	-0.547	-0.581	34.916	28.068	2.46
870	-0.549	-0.584	34.916	28.067	2.45
880	-0.559	-0.594	34.916	28.068	2.32
890	-0.564	-0.599	34.915	28.068	2.35
900	-0.568	-0.604	34.916	28.069	2.24
910	-0.574	-0.610	34.916	28.069	2.20
920	-0.589	-0.626	34.917	28.070	2.01
930	-0.602	-0.639	34.917	28.071	1.88
940	-0.611	-0.648	34.917	28.072	1.80
950	-0.613	-0.650	34.915	28.070	1.91
960	-0.628	-0.666	34.918	28.073	1.61
970	-0.628	-0.666	34.918	28.073	1.59
980	-0.636	-0.675	34.918	28.073	1.51
990	-0.643	-0.683	34.918	28.074	1.45
1000	-0.643	-0.683	34.918	28.073	1.46

B89.491					
depth	temp	theta	salnty	sig_th	delta
1010	-0.646	-0.687	34.917	28.073	1.44
1020	-0.647	-0.688	34.917	28.073	1.40
1030	-0.654	-0.696	34.918	28.074	1.28
1040	-0.655	-0.697	34.918	28.074	1.28
1050	-0.657	-0.699	34.918	28.074	1.26
1060	-0.658	-0.701	34.918	28.074	1.24
1070	-0.658	-0.702	34.918	28.074	1.22
1080	-0.660	-0.704	34.918	28.075	1.14
1090	-0.668	-0.712	34.919	28.075	1.05
1100	-0.675	-0.720	34.919	28.076	0.96
1110	-0.680	-0.725	34.918	28.076	0.93
1120	-0.688	-0.734	34.919	28.076	0.83
1130	-0.694	-0.740	34.919	28.077	0.79
1140	-0.697	-0.743	34.919	28.077	0.74
1150	-0.699	-0.745	34.919	28.077	0.71
1160	-0.702	-0.749	34.919	28.077	0.67
1170	-0.703	-0.751	34.918	28.077	0.66
1180	-0.707	-0.755	34.919	28.077	0.58
1190	-0.713	-0.762	34.919	28.078	0.49
1200	-0.712	-0.762	34.919	28.078	0.51
1210	-0.713	-0.763	34.919	28.078	0.44
1220	-0.715	-0.765	34.919	28.078	0.43
1230	-0.715	-0.766	34.919	28.078	0.40
1240	-0.715	-0.766	34.918	28.078	0.44
1250	-0.715	-0.767	34.919	28.078	0.36
1260	-0.715	-0.768	34.919	28.078	0.36

B89.492					
depth	temp	theta	salnty	sig_th	delta
5	4.092	4.092	34.219	27.155	90.12
10	4.092	4.091	34.218	27.155	90.22
15	4.072	4.070	34.221	27.159	89.83
20	4.142	4.141	34.226	27.156	90.20
25	4.169	4.168	34.363	27.262	80.16
30	4.096	4.094	34.444	27.335	73.37
35	2.926	2.924	34.587	27.563	51.72
40	1.321	1.319	34.972	28.001	10.09
45	0.922	0.920	34.733	27.836	25.69
50	0.390	0.388	34.864	27.974	12.54
55	0.187	0.185	34.837	27.965	13.44
60	0.127	0.125	34.862	27.988	11.22
65	0.105	0.103	34.856	27.985	11.51
70	0.100	0.097	34.810	27.947	15.06
75	0.090	0.087	34.815	27.952	14.59
80	0.088	0.085	34.814	27.952	14.63
85	0.098	0.095	34.821	27.957	14.19
90	0.102	0.098	34.823	27.958	14.03
95	0.127	0.124	34.833	27.965	13.40
100	0.143	0.139	34.835	27.965	13.37
110	0.252	0.248	34.841	27.965	13.48
120	0.369	0.364	34.862	27.974	12.62
130	0.373	0.368	34.869	27.980	12.11
140	0.347	0.341	34.878	27.988	11.29
150	0.327	0.321	34.878	27.990	11.14
160	0.295	0.289	34.881	27.994	10.77
170	0.142	0.135	34.892	28.012	9.03
180	0.227	0.220	34.881	27.998	10.34
190	0.219	0.212	34.890	28.006	9.66
200	0.193	0.185	34.883	28.002	9.97
210	0.068	0.060	34.893	28.017	8.54
220	0.151	0.142	34.882	28.003	9.85
230	0.167	0.158	34.885	28.005	9.72
240	0.046	0.036	34.895	28.019	8.28
250	0.053	0.043	34.884	28.011	9.11
260	0.026	0.016	34.883	28.011	9.08
270	0.148	0.138	34.885	28.006	9.62
280	0.184	0.173	34.893	28.011	9.20
290	0.039	0.028	34.898	28.023	7.96
300	0.034	0.022	34.889	28.016	8.61
310	0.058	0.045	34.893	28.018	8.44
320	0.034	0.022	34.898	28.022	7.98
330	0.025	0.012	34.898	28.023	7.91
340	0.033	0.019	34.899	28.024	7.87
350	0.031	0.017	34.900	28.024	7.79
360	0.029	0.014	34.901	28.025	7.71
370	0.030	0.015	34.903	28.027	7.54
380	0.027	0.012	34.905	28.029	7.39
390	0.019	0.004	34.908	28.031	7.13
400	0.011	-0.005	34.908	28.032	7.03
410	-0.001	-0.017	34.910	28.035	6.82
420	-0.015	-0.031	34.910	28.036	6.70
430	-0.028	-0.046	34.912	28.038	6.49
440	-0.049	-0.066	34.912	28.038	6.40
450	-0.072	-0.090	34.916	28.044	5.87

B89.492					
depth	temp	theta	salnty	sig_th	delta
460	-0.104	-0.123	34.915	28.044	5.77
470	-0.130	-0.149	34.915	28.046	5.59
480	-0.151	-0.170	34.914	28.046	5.53
490	-0.159	-0.178	34.912	28.045	5.66
500	-0.173	-0.193	34.913	28.046	5.51
510	-0.188	-0.208	34.913	28.047	5.37
520	-0.208	-0.229	34.913	28.048	5.22
530	-0.224	-0.245	34.914	28.050	5.05
540	-0.237	-0.258	34.913	28.050	5.04
550	-0.259	-0.281	34.916	28.053	4.73
560	-0.275	-0.296	34.915	28.053	4.68
570	-0.290	-0.312	34.914	28.053	4.63
580	-0.295	-0.317	34.913	28.053	4.66
590	-0.309	-0.332	34.914	28.054	4.47
600	-0.338	-0.362	34.916	28.057	4.19
610	-0.362	-0.386	34.915	28.058	4.04
620	-0.374	-0.398	34.917	28.060	3.82
630	-0.389	-0.413	34.915	28.059	3.84
640	-0.401	-0.426	34.916	28.060	3.68
650	-0.414	-0.440	34.917	28.062	3.51
660	-0.427	-0.453	34.916	28.062	3.51
670	-0.437	-0.463	34.916	28.062	3.43
680	-0.439	-0.465	34.915	28.061	3.49
690	-0.441	-0.468	34.916	28.062	3.38
700	-0.452	-0.479	34.916	28.063	3.28
710	-0.465	-0.493	34.916	28.063	3.24
720	-0.472	-0.500	34.917	28.064	3.10
730	-0.478	-0.507	34.916	28.064	3.10
740	-0.480	-0.509	34.916	28.064	3.09
750	-0.491	-0.521	34.918	28.066	2.87
760	-0.496	-0.526	34.916	28.065	2.91
770	-0.501	-0.532	34.917	28.066	2.81
780	-0.506	-0.536	34.916	28.066	2.82
790	-0.509	-0.540	34.916	28.066	2.81
800	-0.509	-0.540	34.916	28.066	2.78
810	-0.509	-0.541	34.916	28.066	2.78
820	-0.513	-0.546	34.917	28.066	2.69
830	-0.515	-0.548	34.916	28.066	2.70
840	-0.521	-0.554	34.918	28.067	2.56
850	-0.522	-0.556	34.916	28.066	2.64
860	-0.526	-0.560	34.917	28.067	2.55
870	-0.531	-0.565	34.917	28.067	2.50
880	-0.535	-0.570	34.917	28.068	2.45
890	-0.538	-0.573	34.917	28.068	2.40
900	-0.540	-0.576	34.917	28.068	2.41
910	-0.541	-0.577	34.917	28.068	2.35
920	-0.545	-0.582	34.917	28.068	2.29
930	-0.546	-0.584	34.917	28.068	2.30
940	-0.548	-0.585	34.918	28.069	2.21
950	-0.549	-0.587	34.917	28.069	2.23
960	-0.550	-0.589	34.917	28.069	2.20
970	-0.552	-0.592	34.917	28.069	2.17
980	-0.552	-0.592	34.917	28.069	2.15
990	-0.554	-0.595	34.917	28.069	2.11
1000	-0.556	-0.597	34.917	28.069	2.09

B89.492					
depth	temp	theta	salnty	sig_th	delta
1010	-0.559	-0.600	34.918	28.070	1.98
1020	-0.560	-0.601	34.917	28.069	2.03
1030	-0.563	-0.605	34.918	28.070	1.92
1040	-0.565	-0.608	34.917	28.070	1.96
1050	-0.568	-0.611	34.918	28.070	1.90
1060	-0.572	-0.615	34.918	28.071	1.83
1070	-0.580	-0.624	34.918	28.071	1.74
1080	-0.585	-0.630	34.919	28.072	1.65
1090	-0.588	-0.633	34.918	28.071	1.67

B89.493					
depth	temp	theta	salnty	sig_th	delta
5	4.160	4.160	34.559	27.419	65.14
10	4.163	4.163	34.560	27.419	65.16
15	4.162	4.161	34.562	27.421	65.05
20	4.279	4.277	34.597	27.436	63.65
25	4.278	4.276	34.601	27.440	63.35
30	4.275	4.273	34.606	27.444	62.99
35	4.324	4.321	34.618	27.448	62.66
40	4.077	4.074	34.643	27.495	58.31
45	2.110	2.108	34.814	27.814	27.89
50	1.238	1.236	34.850	27.909	18.83
55	0.707	0.704	34.852	27.946	15.28
60	0.525	0.523	34.844	27.951	14.80
65	0.453	0.451	34.832	27.945	15.31
70	0.369	0.366	34.830	27.948	15.00
75	0.268	0.265	34.830	27.954	14.46
80	0.198	0.194	34.826	27.955	14.31
85	0.139	0.136	34.829	27.961	13.81
90	0.112	0.108	34.829	27.963	13.62
95	0.123	0.119	34.830	27.962	13.64
100	0.088	0.084	34.831	27.965	13.37
110	0.024	0.020	34.834	27.971	12.79
120	-0.017	-0.022	34.839	27.978	12.17
130	-0.031	-0.036	34.844	27.982	11.74
140	-0.055	-0.060	34.847	27.986	11.32
150	-0.066	-0.071	34.849	27.988	11.14
160	-0.080	-0.086	34.851	27.991	10.91
170	-0.078	-0.084	34.854	27.993	10.65
180	-0.082	-0.089	34.856	27.994	10.55
190	-0.062	-0.069	34.859	27.996	10.42
200	-0.065	-0.072	34.860	27.998	10.26
210	-0.068	-0.076	34.862	27.999	10.15
220	-0.068	-0.076	34.863	28.000	10.06
230	-0.082	-0.090	34.863	28.001	9.94
240	-0.098	-0.107	34.864	28.002	9.79
250	-0.118	-0.127	34.864	28.003	9.70
260	-0.131	-0.141	34.864	28.004	9.59
270	-0.148	-0.158	34.864	28.004	9.53
280	-0.155	-0.166	34.864	28.005	9.46
290	-0.153	-0.164	34.866	28.007	9.29
300	-0.130	-0.141	34.869	28.008	9.18
310	-0.117	-0.129	34.871	28.009	9.08
320	-0.093	-0.105	34.874	28.011	8.98
330	-0.051	-0.064	34.881	28.014	8.72
340	-0.023	-0.036	34.883	28.014	8.71
350	-0.014	-0.027	34.887	28.017	8.48
360	-0.007	-0.022	34.889	28.018	8.35
370	-0.001	-0.016	34.892	28.020	8.17
380	0.125	0.110	34.900	28.020	8.35
390	0.128	0.112	34.905	28.024	7.97
400	0.106	0.089	34.908	28.028	7.60
410	0.106	0.090	34.908	28.028	7.60
420	0.082	0.065	34.909	28.029	7.41
430	0.062	0.045	34.911	28.032	7.11
440	0.042	0.024	34.912	28.034	6.91
450	0.020	0.002	34.912	28.035	6.77

B89.493					
depth	temp	theta	salnty	sig_th	delta
460	0.004	-0.015	34.912	28.036	6.68
470	-0.009	-0.028	34.912	28.037	6.59
480	-0.032	-0.052	34.913	28.039	6.38
490	-0.042	-0.062	34.913	28.039	6.34
500	-0.070	-0.090	34.914	28.041	6.09
510	-0.092	-0.112	34.913	28.042	5.96
520	-0.125	-0.146	34.914	28.045	5.68
530	-0.149	-0.170	34.914	28.046	5.51
540	-0.159	-0.180	34.914	28.046	5.49
550	-0.184	-0.206	34.914	28.048	5.33
560	-0.197	-0.220	34.914	28.048	5.22
570	-0.212	-0.235	34.914	28.049	5.13
580	-0.239	-0.262	34.915	28.051	4.87
590	-0.278	-0.301	34.915	28.053	4.64
600	-0.298	-0.321	34.915	28.054	4.49
610	-0.319	-0.342	34.915	28.055	4.36
620	-0.319	-0.343	34.914	28.054	4.42
630	-0.331	-0.356	34.915	28.056	4.28
640	-0.347	-0.372	34.915	28.056	4.16
650	-0.355	-0.380	34.915	28.057	4.08
660	-0.365	-0.391	34.915	28.057	4.03
670	-0.376	-0.402	34.915	28.058	3.91
680	-0.391	-0.417	34.915	28.059	3.81
690	-0.406	-0.433	34.915	28.060	3.69
700	-0.407	-0.435	34.915	28.060	3.69
710	-0.420	-0.448	34.915	28.061	3.57
720	-0.432	-0.460	34.915	28.061	3.47
730	-0.448	-0.476	34.916	28.062	3.33
740	-0.456	-0.485	34.915	28.063	3.27
750	-0.469	-0.499	34.915	28.063	3.18
760	-0.488	-0.517	34.916	28.065	2.99
770	-0.495	-0.526	34.916	28.065	2.96
780	-0.503	-0.534	34.916	28.065	2.88
790	-0.509	-0.540	34.916	28.066	2.81
800	-0.515	-0.546	34.916	28.066	2.79
810	-0.530	-0.561	34.917	28.067	2.59
820	-0.538	-0.570	34.917	28.067	2.54
830	-0.548	-0.581	34.916	28.068	2.48
840	-0.557	-0.590	34.917	28.069	2.36
850	-0.561	-0.594	34.917	28.069	2.32
860	-0.572	-0.606	34.917	28.069	2.22
870	-0.580	-0.614	34.918	28.070	2.11
880	-0.584	-0.618	34.917	28.070	2.10
890	-0.585	-0.620	34.917	28.070	2.07
900	-0.589	-0.625	34.918	28.071	2.00
910	-0.598	-0.633	34.918	28.071	1.92
920	-0.600	-0.637	34.917	28.071	1.91
930	-0.603	-0.640	34.917	28.071	1.88
940	-0.611	-0.648	34.918	28.072	1.76
950	-0.619	-0.657	34.918	28.073	1.67
960	-0.627	-0.665	34.918	28.073	1.58
970	-0.631	-0.669	34.918	28.073	1.54
980	-0.635	-0.674	34.918	28.074	1.49
990	-0.639	-0.679	34.918	28.073	1.48
1000	-0.643	-0.683	34.918	28.074	1.40

B89.493					
depth	temp	theta	salnty	sig_th	delta
1010	-0.653	-0.693	34.919	28.075	1.30
1020	-0.654	-0.694	34.919	28.075	1.28
1030	-0.656	-0.698	34.919	28.075	1.23
1040	-0.660	-0.702	34.919	28.075	1.18

B89.494					
depth	temp	theta	salnty	sig_th	delta
5	3.951	3.950	34.585	27.461	61.13
10	3.945	3.945	34.585	27.462	61.12
15	3.938	3.937	34.594	27.469	60.44
20	3.938	3.937	34.594	27.470	60.43
25	3.936	3.935	34.595	27.471	60.39
30	3.936	3.934	34.595	27.471	60.43
35	3.930	3.927	34.597	27.473	60.27
40	3.725	3.723	34.632	27.522	55.69
45	1.359	1.357	34.816	27.873	22.24
50	0.843	0.840	34.831	27.920	17.73
55	0.729	0.727	34.829	27.926	17.16
60	0.612	0.609	34.830	27.934	16.42
65	0.543	0.541	34.827	27.935	16.26
70	0.521	0.518	34.825	27.936	16.26
75	0.451	0.448	34.828	27.942	15.64
80	0.432	0.429	34.828	27.944	15.49
85	0.353	0.350	34.832	27.951	14.80
90	0.316	0.313	34.840	27.960	13.92
95	0.297	0.293	34.842	27.962	13.70
100	0.291	0.287	34.843	27.964	13.58
110	0.288	0.284	34.851	27.971	12.93
120	0.240	0.236	34.858	27.979	12.15
130	0.206	0.201	34.858	27.981	11.97
140	0.211	0.206	34.861	27.983	11.74
150	0.271	0.265	34.873	27.989	11.18
160	0.199	0.193	34.871	27.992	10.93
170	0.278	0.271	34.877	27.992	10.98
180	0.287	0.280	34.882	27.995	10.67
190	0.238	0.231	34.886	28.001	10.06
200	0.226	0.218	34.883	28.000	10.18
210	0.165	0.156	34.881	28.002	9.98
220	0.160	0.151	34.881	28.002	9.97
230	0.203	0.194	34.886	28.004	9.83
240	0.200	0.190	34.889	28.007	9.58
250	0.199	0.189	34.891	28.008	9.49
260	0.224	0.213	34.894	28.009	9.38
270	0.216	0.205	34.896	28.011	9.20
280	0.203	0.191	34.898	28.013	8.99
290	0.196	0.184	34.899	28.014	8.87
300	0.195	0.183	34.900	28.016	8.77
310	0.189	0.177	34.901	28.017	8.64
320	0.196	0.183	34.904	28.019	8.46
330	0.172	0.158	34.907	28.022	8.12
340	0.170	0.156	34.908	28.023	8.03
350	0.149	0.135	34.909	28.026	7.80
360	0.149	0.134	34.911	28.027	7.67
370	0.140	0.125	34.912	28.028	7.56
380	0.112	0.097	34.914	28.031	7.23
390	0.088	0.072	34.914	28.033	7.03
400	0.060	0.044	34.913	28.034	6.93
410	0.031	0.015	34.913	28.035	6.78
420	0.020	0.003	34.913	28.036	6.73
430	-0.002	-0.019	34.913	28.038	6.54
440	-0.020	-0.037	34.914	28.039	6.41
450	-0.049	-0.067	34.914	28.040	6.22

B89.494					
depth	temp	theta	salnty	sig_th	delta
460	-0.061	-0.079	34.914	28.041	6.15
470	-0.089	-0.108	34.913	28.042	5.99
480	-0.114	-0.133	34.913	28.043	5.85
490	-0.143	-0.162	34.912	28.044	5.77
500	-0.158	-0.177	34.913	28.046	5.55
510	-0.181	-0.202	34.914	28.047	5.36
520	-0.190	-0.211	34.913	28.047	5.35
530	-0.200	-0.221	34.914	28.048	5.26
540	-0.213	-0.234	34.914	28.049	5.12
550	-0.220	-0.241	34.914	28.050	5.08
560	-0.241	-0.263	34.914	28.051	4.95
570	-0.253	-0.275	34.914	28.051	4.89
580	-0.276	-0.299	34.914	28.052	4.71
590	-0.286	-0.310	34.914	28.053	4.62
600	-0.298	-0.322	34.914	28.054	4.53
610	-0.312	-0.336	34.914	28.055	4.43
620	-0.328	-0.352	34.915	28.056	4.29
630	-0.344	-0.369	34.915	28.056	4.18
640	-0.361	-0.386	34.914	28.057	4.09
650	-0.376	-0.401	34.915	28.058	3.94
660	-0.389	-0.415	34.914	28.058	3.91
670	-0.395	-0.422	34.915	28.059	3.82
680	-0.400	-0.427	34.915	28.059	3.75
690	-0.410	-0.437	34.915	28.060	3.70
700	-0.424	-0.451	34.915	28.061	3.56
710	-0.440	-0.467	34.915	28.062	3.43
720	-0.455	-0.483	34.916	28.063	3.30
730	-0.463	-0.491	34.915	28.062	3.30
740	-0.480	-0.509	34.916	28.064	3.09
750	-0.491	-0.520	34.917	28.065	2.95
760	-0.504	-0.533	34.916	28.065	2.88
770	-0.518	-0.548	34.917	28.066	2.75
780	-0.528	-0.559	34.916	28.066	2.73
790	-0.536	-0.567	34.916	28.067	2.62
800	-0.537	-0.568	34.916	28.067	2.62
810	-0.539	-0.571	34.917	28.067	2.55
820	-0.540	-0.572	34.917	28.068	2.52
830	-0.542	-0.575	34.917	28.068	2.48
840	-0.552	-0.585	34.917	28.068	2.40
850	-0.560	-0.594	34.917	28.069	2.30
860	-0.569	-0.602	34.918	28.070	2.20
870	-0.576	-0.610	34.918	28.070	2.13
880	-0.583	-0.618	34.918	28.070	2.07
890	-0.587	-0.622	34.917	28.070	2.06
900	-0.593	-0.628	34.918	28.071	1.94
910	-0.596	-0.632	34.917	28.071	1.94
920	-0.601	-0.637	34.918	28.072	1.84
930	-0.602	-0.639	34.918	28.071	1.85
940	-0.604	-0.642	34.918	28.072	1.79
950	-0.605	-0.643	34.918	28.072	1.78
960	-0.606	-0.644	34.918	28.072	1.76
970	-0.611	-0.650	34.919	28.073	1.64
980	-0.617	-0.656	34.918	28.072	1.67
990	-0.626	-0.666	34.918	28.073	1.53
1000	-0.630	-0.670	34.918	28.073	1.51

B89.494					
depth	temp	theta	salnty	sig_th	delta
1010	-0.633	-0.673	34.919	28.074	1.43
1020	-0.638	-0.679	34.918	28.074	1.41
1030	-0.641	-0.682	34.919	28.074	1.34
1040	-0.647	-0.689	34.919	28.074	1.28
1050	-0.648	-0.691	34.918	28.074	1.27
1060	-0.653	-0.696	34.918	28.075	1.22
1070	-0.655	-0.698	34.918	28.075	1.19
1080	-0.658	-0.702	34.919	28.075	1.11
1090	-0.661	-0.706	34.919	28.075	1.06
1100	-0.662	-0.706	34.919	28.076	1.03
1110	-0.668	-0.714	34.919	28.076	0.96
1120	-0.668	-0.713	34.919	28.076	0.98
1130	-0.670	-0.716	34.919	28.076	0.94
1140	-0.670	-0.717	34.919	28.076	0.90
1150	-0.668	-0.715	34.919	28.076	0.90

B89.495					
depth	temp	theta	salnty	sig_th	delta
5	3.995	3.994	34.564	27.440	63.10
10	3.962	3.961	34.568	27.447	62.56
15	3.936	3.935	34.568	27.450	62.32
20	3.874	3.873	34.579	27.464	60.96
25	3.877	3.875	34.579	27.464	61.04
30	3.875	3.873	34.579	27.465	61.03
35	3.288	3.286	34.632	27.565	51.53
40	1.943	1.941	34.746	27.773	31.76
45	0.357	0.356	34.798	27.924	17.33
50	1.020	1.018	34.799	27.883	21.30
55	1.089	1.087	34.829	27.902	19.47
60	1.016	1.013	34.827	27.905	19.17
65	0.883	0.880	34.831	27.917	18.03
70	0.767	0.764	34.827	27.922	17.61
75	0.649	0.645	34.829	27.931	16.69
80	0.612	0.609	34.826	27.931	16.73
85	0.561	0.557	34.829	27.936	16.25
90	0.563	0.560	34.831	27.938	16.06
95	0.565	0.561	34.836	27.942	15.73
100	0.602	0.598	34.842	27.944	15.50
110	0.566	0.562	34.849	27.952	14.73
120	0.587	0.582	34.858	27.958	14.22
130	0.600	0.594	34.866	27.964	13.65
140	0.565	0.559	34.865	27.965	13.58
150	0.542	0.536	34.867	27.968	13.31
160	0.518	0.511	34.870	27.972	12.96
170	0.469	0.461	34.869	27.975	12.67
180	0.432	0.425	34.871	27.979	12.31
190	0.393	0.385	34.871	27.980	12.12
200	0.347	0.339	34.870	27.983	11.88
210	0.320	0.311	34.870	27.984	11.76
220	0.300	0.291	34.871	27.986	11.58
230	0.289	0.280	34.875	27.990	11.20
240	0.286	0.277	34.877	27.991	11.06
250	0.279	0.269	34.879	27.994	10.83
260	0.278	0.267	34.881	27.996	10.67
270	0.266	0.255	34.882	27.997	10.53
280	0.245	0.234	34.885	28.000	10.24
290	0.238	0.226	34.885	28.001	10.13
300	0.232	0.220	34.887	28.003	9.98
310	0.217	0.205	34.887	28.004	9.91
320	0.206	0.193	34.887	28.005	9.80
330	0.216	0.203	34.890	28.006	9.66
340	0.204	0.190	34.891	28.008	9.52
350	0.214	0.200	34.894	28.010	9.37
360	0.221	0.206	34.897	28.012	9.17
370	0.229	0.213	34.900	28.014	8.98
380	0.220	0.204	34.902	28.016	8.78
390	0.212	0.196	34.905	28.019	8.54
400	0.152	0.135	34.902	28.020	8.36
410	0.153	0.137	34.905	28.022	8.14
420	0.144	0.126	34.907	28.024	7.97
430	0.134	0.116	34.908	28.025	7.85
440	0.133	0.115	34.910	28.027	7.70
450	0.122	0.104	34.911	28.029	7.55

B89.495					
depth	temp	theta	salnty	sig_th	delta
460	0.096	0.077	34.911	28.030	7.34
470	0.079	0.059	34.911	28.031	7.26
480	0.057	0.037	34.911	28.033	7.08
490	0.048	0.028	34.912	28.034	6.98
500	0.036	0.015	34.912	28.035	6.86
510	0.012	-0.008	34.913	28.037	6.66
520	-0.008	-0.029	34.914	28.038	6.48
530	-0.022	-0.044	34.913	28.039	6.42
540	-0.049	-0.071	34.914	28.041	6.18
550	-0.064	-0.086	34.913	28.041	6.13
560	-0.080	-0.103	34.913	28.042	6.05
570	-0.099	-0.123	34.913	28.043	5.88
580	-0.108	-0.131	34.914	28.043	5.82
590	-0.130	-0.154	34.914	28.045	5.66
600	-0.144	-0.168	34.914	28.045	5.57
610	-0.161	-0.186	34.914	28.046	5.44
620	-0.185	-0.210	34.914	28.048	5.25
630	-0.212	-0.238	34.914	28.049	5.09
640	-0.226	-0.252	34.914	28.050	5.00
650	-0.245	-0.272	34.914	28.051	4.83
660	-0.270	-0.296	34.915	28.053	4.64
670	-0.296	-0.322	34.915	28.054	4.44
680	-0.303	-0.330	34.914	28.054	4.43
690	-0.307	-0.335	34.914	28.054	4.41
700	-0.317	-0.345	34.914	28.054	4.36
710	-0.335	-0.363	34.914	28.056	4.21
720	-0.354	-0.383	34.914	28.056	4.09
730	-0.371	-0.400	34.915	28.058	3.91
740	-0.379	-0.408	34.914	28.058	3.86
750	-0.384	-0.414	34.914	28.058	3.82
760	-0.394	-0.424	34.914	28.059	3.76
770	-0.410	-0.441	34.916	28.061	3.53
780	-0.425	-0.456	34.916	28.061	3.40
790	-0.430	-0.462	34.915	28.061	3.39
800	-0.450	-0.482	34.916	28.063	3.22
810	-0.455	-0.487	34.915	28.063	3.20
820	-0.461	-0.493	34.916	28.063	3.13
830	-0.469	-0.503	34.916	28.064	3.05
840	-0.489	-0.523	34.916	28.065	2.85
850	-0.500	-0.534	34.916	28.065	2.80
860	-0.510	-0.544	34.916	28.066	2.71
870	-0.515	-0.550	34.916	28.066	2.69
880	-0.518	-0.553	34.916	28.066	2.61
890	-0.525	-0.560	34.916	28.067	2.56
900	-0.542	-0.578	34.917	28.068	2.34
910	-0.553	-0.590	34.917	28.069	2.28
920	-0.561	-0.598	34.917	28.069	2.22
930	-0.564	-0.601	34.917	28.069	2.18
940	-0.569	-0.607	34.917	28.069	2.12
950	-0.576	-0.614	34.917	28.070	2.04
960	-0.582	-0.621	34.917	28.070	1.98
970	-0.585	-0.624	34.917	28.070	1.98
980	-0.592	-0.632	34.917	28.070	1.89
990	-0.600	-0.640	34.917	28.071	1.78
1000	-0.608	-0.648	34.918	28.072	1.69

B89.495					
depth	temp	theta	salnty	sig_th	delta
1010	-0.613	-0.653	34.917	28.072	1.69
1020	-0.619	-0.660	34.918	28.073	1.56
1030	-0.622	-0.664	34.918	28.072	1.55
1040	-0.631	-0.673	34.918	28.073	1.43
1050	-0.635	-0.678	34.918	28.073	1.42
1060	-0.642	-0.685	34.918	28.074	1.32
1070	-0.645	-0.689	34.918	28.074	1.26
1080	-0.647	-0.691	34.918	28.074	1.27
1090	-0.654	-0.699	34.918	28.074	1.17
1100	-0.657	-0.702	34.918	28.075	1.13
1110	-0.662	-0.707	34.918	28.075	1.08
1120	-0.668	-0.713	34.919	28.076	0.99
1130	-0.672	-0.718	34.918	28.075	0.96
1140	-0.676	-0.723	34.918	28.076	0.92
1150	-0.680	-0.727	34.918	28.076	0.86
1160	-0.685	-0.732	34.919	28.076	0.79
1170	-0.689	-0.737	34.918	28.076	0.76
1180	-0.692	-0.741	34.919	28.077	0.70
1190	-0.695	-0.744	34.919	28.077	0.66
1200	-0.696	-0.745	34.918	28.077	0.65
1210	-0.697	-0.747	34.918	28.077	0.63
1220	-0.699	-0.749	34.919	28.077	0.58
1230	-0.699	-0.750	34.919	28.077	0.55
1240	-0.700	-0.751	34.919	28.077	0.52
1250	-0.700	-0.752	34.918	28.077	0.52
1260	-0.703	-0.756	34.919	28.078	0.44
1270	-0.704	-0.757	34.919	28.078	0.42
1280	-0.704	-0.758	34.919	28.078	0.40
1290	-0.705	-0.759	34.919	28.078	0.36
1300	-0.706	-0.761	34.919	28.078	0.32
1310	-0.706	-0.761	34.919	28.078	0.33

B89.496					
depth	temp	theta	salnty	sig_th	delta
5	3.081	3.081	34.186	27.228	83.18
10	3.144	3.143	34.268	27.288	77.56
15	3.623	3.623	34.418	27.361	70.65
20	3.795	3.794	34.463	27.380	68.92
25	3.527	3.525	34.489	27.428	64.47
30	3.543	3.541	34.528	27.457	61.69
35	3.526	3.524	34.553	27.479	59.71
40	3.525	3.522	34.588	27.507	57.08
45	1.911	1.909	34.659	27.706	38.11
50	-0.574	-0.576	34.636	27.841	25.03
55	-1.279	-1.280	34.604	27.843	24.70
60	-1.427	-1.429	34.590	27.837	25.24
65	-1.268	-1.270	34.586	27.828	26.09
70	-1.205	-1.206	34.600	27.837	25.22
75	-1.133	-1.135	34.611	27.843	24.65
80	-1.040	-1.042	34.622	27.849	24.09
85	-0.885	-0.888	34.640	27.857	23.34
90	-0.729	-0.732	34.659	27.866	22.53
95	-0.626	-0.629	34.675	27.875	21.74
100	-0.466	-0.470	34.702	27.889	20.42
110	-0.247	-0.251	34.736	27.906	18.87
120	-0.048	-0.053	34.761	27.916	17.95
130	0.025	0.020	34.780	27.927	16.91
140	0.069	0.064	34.790	27.933	16.40
150	0.217	0.211	34.815	27.945	15.33
160	0.293	0.287	34.831	27.954	14.54
170	0.383	0.376	34.845	27.960	14.04
180	0.464	0.457	34.860	27.968	13.35
190	0.480	0.472	34.868	27.973	12.90
200	0.431	0.422	34.873	27.980	12.23
210	0.448	0.439	34.881	27.985	11.70
220	0.459	0.449	34.888	27.990	11.28
230	0.448	0.438	34.891	27.994	10.96
240	0.451	0.441	34.892	27.994	10.91
250	0.470	0.460	34.896	27.997	10.72
260	0.441	0.430	34.898	27.999	10.45
270	0.434	0.423	34.898	28.000	10.43
280	0.416	0.404	34.899	28.002	10.18
290	0.405	0.393	34.900	28.004	10.04
300	0.393	0.380	34.900	28.004	10.00
310	0.403	0.390	34.902	28.005	9.92
320	0.422	0.408	34.907	28.008	9.70
330	0.408	0.394	34.908	28.010	9.54
340	0.398	0.384	34.909	28.011	9.39
350	0.405	0.390	34.910	28.012	9.34
360	0.393	0.377	34.912	28.014	9.12
370	0.403	0.387	34.913	28.014	9.13
380	0.382	0.366	34.915	28.017	8.89
390	0.364	0.347	34.915	28.018	8.75
400	0.332	0.315	34.915	28.020	8.53
410	0.305	0.287	34.916	28.023	8.29
420	0.274	0.256	34.915	28.024	8.17
430	0.251	0.233	34.915	28.025	8.06
440	0.207	0.189	34.915	28.028	7.74
450	0.191	0.172	34.914	28.027	7.74

B89.496					
depth	temp	theta	salnty	sig_th	delta
460	0.179	0.160	34.915	28.029	7.60
470	0.158	0.138	34.915	28.030	7.43
480	0.133	0.113	34.915	28.031	7.32
490	0.088	0.068	34.914	28.034	7.04
500	0.077	0.056	34.914	28.034	6.99
510	0.061	0.040	34.914	28.035	6.87
520	0.052	0.031	34.914	28.036	6.82
530	0.042	0.020	34.914	28.036	6.77
540	0.024	0.001	34.914	28.037	6.62
550	0.004	-0.018	34.914	28.038	6.55
560	-0.019	-0.043	34.915	28.040	6.31
570	-0.035	-0.059	34.914	28.040	6.26
580	-0.069	-0.093	34.915	28.043	5.94
590	-0.089	-0.113	34.915	28.043	5.86
600	-0.098	-0.123	34.914	28.043	5.84
610	-0.131	-0.156	34.914	28.045	5.60
620	-0.151	-0.177	34.914	28.046	5.48
630	-0.163	-0.189	34.914	28.047	5.40
640	-0.174	-0.200	34.914	28.047	5.34
650	-0.188	-0.214	34.914	28.048	5.22
660	-0.205	-0.231	34.914	28.049	5.09
670	-0.230	-0.257	34.915	28.051	4.88
680	-0.252	-0.280	34.914	28.051	4.79
690	-0.274	-0.301	34.915	28.053	4.56
700	-0.286	-0.314	34.915	28.054	4.51
710	-0.303	-0.331	34.915	28.054	4.37
720	-0.320	-0.349	34.914	28.055	4.28
730	-0.331	-0.360	34.915	28.056	4.15
740	-0.342	-0.371	34.915	28.057	4.04
750	-0.356	-0.386	34.915	28.058	3.94
760	-0.375	-0.406	34.916	28.059	3.75
770	-0.387	-0.418	34.916	28.060	3.67
780	-0.398	-0.429	34.916	28.060	3.60
790	-0.408	-0.440	34.916	28.061	3.49
800	-0.428	-0.460	34.916	28.062	3.32
810	-0.441	-0.473	34.916	28.063	3.23
820	-0.447	-0.480	34.916	28.063	3.19
830	-0.463	-0.496	34.916	28.064	3.07
840	-0.467	-0.500	34.916	28.064	3.01
850	-0.470	-0.504	34.916	28.064	2.97
860	-0.473	-0.508	34.917	28.064	2.92
870	-0.480	-0.515	34.916	28.065	2.87
880	-0.489	-0.524	34.916	28.065	2.81
890	-0.499	-0.535	34.917	28.066	2.69
900	-0.504	-0.540	34.917	28.066	2.61
910	-0.524	-0.560	34.917	28.067	2.45
920	-0.535	-0.572	34.918	28.068	2.34
930	-0.546	-0.584	34.918	28.069	2.22
940	-0.551	-0.589	34.918	28.069	2.19
950	-0.558	-0.596	34.918	28.069	2.12
960	-0.558	-0.597	34.917	28.069	2.13
970	-0.561	-0.600	34.918	28.070	2.06
980	-0.565	-0.604	34.917	28.070	2.05
990	-0.567	-0.607	34.918	28.070	1.99
1000	-0.568	-0.609	34.918	28.070	1.96

B89.496					
depth	temp	theta	salnty	sig_th	delta
1010	-0.569	-0.610	34.918	28.070	1.95
1020	-0.570	-0.611	34.918	28.070	1.92
1030	-0.571	-0.613	34.918	28.070	1.89

B89.497					
depth	temp	theta	salnty	sig_th	delta
5	3.494	3.493	34.474	27.419	65.14
10	3.863	3.862	34.538	27.433	63.84
15	3.959	3.958	34.567	27.446	62.61
20	3.957	3.956	34.581	27.457	61.63
25	4.043	4.042	34.621	27.480	59.51
30	3.914	3.912	34.635	27.505	57.21
35	2.060	2.058	34.600	27.646	43.71
40	0.500	0.499	34.598	27.754	33.41
45	0.209	0.208	34.568	27.747	34.06
50	-0.152	-0.154	34.603	27.793	29.58
55	-0.405	-0.407	34.617	27.817	27.26
60	-0.917	-0.919	34.622	27.844	24.67
65	-0.687	-0.689	34.622	27.834	25.60
70	-0.145	-0.147	34.656	27.836	25.50
75	-0.071	-0.074	34.686	27.856	23.61
80	-0.110	-0.113	34.700	27.870	22.31
85	-0.063	-0.066	34.713	27.878	21.53
90	0.076	0.072	34.740	27.893	20.21
95	0.078	0.074	34.747	27.898	19.71
100	0.103	0.100	34.753	27.901	19.41
110	-0.039	-0.043	34.757	27.912	18.33
120	-0.043	-0.048	34.763	27.918	17.82
130	0.004	-0.001	34.783	27.931	16.53
140	0.074	0.069	34.793	27.936	16.16
150	0.226	0.220	34.815	27.945	15.37
160	0.406	0.399	34.843	27.957	14.30
170	0.499	0.492	34.860	27.966	13.54
180	0.589	0.581	34.879	27.975	12.69
190	0.612	0.604	34.890	27.982	12.05
200	0.617	0.609	34.896	27.987	11.65
210	0.587	0.577	34.897	27.990	11.34
220	0.601	0.592	34.904	27.994	10.97
230	0.610	0.600	34.909	27.999	10.60
240	0.573	0.563	34.911	28.002	10.29
250	0.569	0.558	34.914	28.005	10.02
260	0.538	0.527	34.917	28.009	9.63
270	0.520	0.509	34.916	28.010	9.55
280	0.491	0.479	34.919	28.013	9.21
290	0.469	0.457	34.919	28.015	9.05
300	0.437	0.424	34.920	28.017	8.79
310	0.400	0.387	34.920	28.020	8.57
320	0.358	0.344	34.918	28.021	8.40
330	0.329	0.315	34.918	28.022	8.27
340	0.305	0.291	34.917	28.023	8.19
350	0.281	0.266	34.916	28.024	8.09
360	0.241	0.226	34.917	28.027	7.78
370	0.214	0.199	34.916	28.027	7.72
380	0.164	0.149	34.916	28.030	7.41
390	0.115	0.099	34.916	28.033	7.07
400	0.083	0.066	34.915	28.034	6.93
410	0.055	0.038	34.914	28.035	6.84
420	0.033	0.016	34.914	28.036	6.73
430	0.025	0.008	34.913	28.036	6.74
440	0.020	0.002	34.913	28.036	6.73
450	-0.011	-0.029	34.913	28.038	6.48

B89.497					
depth	temp	theta	salnty	sig_th	delta
460	-0.057	-0.075	34.913	28.040	6.20
470	-0.089	-0.108	34.913	28.042	6.03
480	-0.105	-0.124	34.913	28.042	5.96
490	-0.111	-0.131	34.912	28.042	5.94
500	-0.121	-0.141	34.912	28.043	5.87
510	-0.133	-0.153	34.912	28.043	5.81
520	-0.161	-0.181	34.913	28.045	5.57
530	-0.183	-0.204	34.912	28.046	5.45
540	-0.193	-0.214	34.912	28.047	5.39
550	-0.215	-0.236	34.912	28.048	5.24
560	-0.225	-0.247	34.912	28.048	5.17
570	-0.237	-0.259	34.912	28.049	5.11
580	-0.254	-0.277	34.912	28.050	4.96
590	-0.276	-0.299	34.913	28.051	4.79
600	-0.285	-0.308	34.912	28.052	4.76
610	-0.296	-0.320	34.913	28.052	4.67
620	-0.301	-0.325	34.913	28.053	4.63
630	-0.316	-0.341	34.912	28.053	4.53
640	-0.325	-0.350	34.913	28.054	4.44
650	-0.335	-0.360	34.913	28.054	4.38
660	-0.347	-0.373	34.913	28.055	4.30
670	-0.360	-0.386	34.913	28.056	4.17
680	-0.385	-0.411	34.913	28.057	4.00
690	-0.394	-0.421	34.913	28.058	3.92
700	-0.397	-0.424	34.913	28.057	3.92
710	-0.407	-0.435	34.913	28.058	3.80
720	-0.420	-0.449	34.913	28.059	3.70
730	-0.429	-0.458	34.913	28.060	3.62
740	-0.444	-0.473	34.913	28.060	3.54
750	-0.444	-0.473	34.913	28.060	3.54
760	-0.454	-0.484	34.913	28.061	3.45
770	-0.455	-0.485	34.913	28.060	3.44
780	-0.464	-0.494	34.914	28.062	3.29
790	-0.470	-0.501	34.914	28.062	3.25
800	-0.483	-0.515	34.914	28.063	3.13
810	-0.497	-0.529	34.914	28.064	3.01
820	-0.504	-0.537	34.914	28.064	2.95
830	-0.515	-0.548	34.914	28.064	2.87
840	-0.518	-0.551	34.915	28.065	2.80
850	-0.527	-0.561	34.915	28.065	2.72
860	-0.546	-0.580	34.914	28.066	2.58
870	-0.551	-0.585	34.914	28.066	2.56
880	-0.558	-0.593	34.914	28.066	2.52
890	-0.563	-0.598	34.914	28.067	2.47
900	-0.580	-0.616	34.914	28.068	2.29
910	-0.586	-0.622	34.914	28.068	2.25
920	-0.594	-0.631	34.915	28.069	2.16
930	-0.601	-0.638	34.914	28.069	2.11
940	-0.610	-0.647	34.915	28.070	1.99
950	-0.613	-0.650	34.915	28.070	1.94
960	-0.618	-0.656	34.915	28.070	1.89
970	-0.621	-0.660	34.916	28.071	1.81
980	-0.626	-0.666	34.916	28.071	1.75
990	-0.631	-0.670	34.915	28.071	1.73
1000	-0.638	-0.678	34.916	28.072	1.63

B89.497					
depth	temp	theta	salnty	sig_th	delta
1010	-0.647	-0.687	34.916	28.072	1.52
1020	-0.654	-0.695	34.916	28.073	1.44
1030	-0.656	-0.697	34.916	28.073	1.41
1040	-0.664	-0.706	34.917	28.074	1.29
1050	-0.667	-0.709	34.916	28.073	1.29
1060	-0.668	-0.711	34.917	28.074	1.24
1070	-0.669	-0.712	34.917	28.074	1.21
1080	-0.675	-0.719	34.917	28.074	1.16
1090	-0.682	-0.726	34.917	28.075	1.08
1100	-0.685	-0.729	34.917	28.075	1.02
1110	-0.689	-0.734	34.917	28.075	0.97
1120	-0.692	-0.738	34.916	28.075	0.99
1130	-0.693	-0.739	34.917	28.075	0.93
1140	-0.697	-0.743	34.917	28.075	0.87
1150	-0.698	-0.744	34.917	28.075	0.85
1160	-0.699	-0.747	34.917	28.075	0.82
1170	-0.703	-0.751	34.917	28.076	0.76
1180	-0.707	-0.755	34.917	28.076	0.69
1190	-0.711	-0.760	34.917	28.076	0.64
1200	-0.712	-0.761	34.917	28.076	0.65
1210	-0.712	-0.762	34.917	28.076	0.61
1220	-0.714	-0.765	34.917	28.077	0.55
1230	-0.715	-0.766	34.917	28.077	0.52
1240	-0.718	-0.769	34.918	28.077	0.47
1250	-0.718	-0.770	34.917	28.077	0.48
1260	-0.720	-0.772	34.917	28.077	0.42
1270	-0.721	-0.774	34.917	28.077	0.42
1280	-0.723	-0.776	34.917	28.077	0.36
1290	-0.724	-0.778	34.917	28.077	0.34
1300	-0.724	-0.778	34.917	28.077	0.32
1310	-0.724	-0.779	34.917	28.077	0.29
1320	-0.726	-0.781	34.917	28.077	0.27
1330	-0.727	-0.783	34.917	28.078	0.24
1340	-0.727	-0.783	34.918	28.078	0.21
1350	-0.727	-0.784	34.917	28.078	0.20
1360	-0.727	-0.785	34.917	28.078	0.18
1370	-0.729	-0.787	34.918	28.078	0.13
1380	-0.730	-0.788	34.917	28.078	0.12
1390	-0.730	-0.789	34.917	28.078	0.09
1400	-0.730	-0.790	34.918	28.078	0.05
1410	-0.731	-0.792	34.917	28.078	0.04
1420	-0.731	-0.792	34.917	28.078	0.03
1430	-0.732	-0.793	34.917	28.078	0.01
1440	-0.732	-0.794	34.918	28.078	-0.03
1450	-0.731	-0.793	34.917	28.078	-0.02
1460	-0.730	-0.793	34.917	28.078	-0.03
1470	-0.732	-0.796	34.918	28.078	-0.10
1480	-0.731	-0.796	34.918	28.078	-0.10
1490	-0.730	-0.795	34.918	28.078	-0.11
1500	-0.730	-0.795	34.917	28.078	-0.13

B89.498					
depth	temp	theta	salnty	sig_th	delta
5	2.882	2.882	33.978	27.080	97.27
10	2.843	2.842	33.985	27.089	96.41
15	2.823	2.822	33.986	27.091	96.21
20	2.802	2.801	34.088	27.175	88.36
25	2.836	2.835	34.268	27.316	75.00
30	2.735	2.733	34.396	27.426	64.56
35	2.161	2.159	34.502	27.560	51.91
40	0.820	0.818	34.550	27.695	38.95
45	0.264	0.262	34.696	27.846	24.63
50	0.351	0.349	34.701	27.846	24.69
55	0.357	0.355	34.723	27.863	23.09
60	0.331	0.329	34.743	27.880	21.44
65	0.328	0.326	34.745	27.883	21.22
70	0.306	0.303	34.748	27.886	20.85
75	0.252	0.249	34.752	27.892	20.30
80	0.218	0.215	34.753	27.895	20.03
85	0.207	0.204	34.757	27.899	19.67
90	0.207	0.203	34.759	27.900	19.53
95	0.208	0.205	34.770	27.909	18.71
100	0.208	0.204	34.773	27.912	18.45
110	0.207	0.203	34.780	27.918	17.88
120	0.207	0.203	34.787	27.923	17.39
130	0.210	0.205	34.791	27.926	17.08
140	0.219	0.214	34.800	27.933	16.48
150	0.227	0.221	34.810	27.941	15.77
160	0.294	0.287	34.811	27.938	16.09
170	0.234	0.228	34.811	27.942	15.69
180	0.227	0.219	34.814	27.944	15.44
190	0.226	0.218	34.817	27.947	15.21
200	0.218	0.210	34.821	27.950	14.88
210	0.239	0.231	34.827	27.954	14.53
220	0.221	0.213	34.828	27.956	14.34
230	0.204	0.195	34.833	27.961	13.87
240	0.202	0.192	34.837	27.964	13.56
250	0.201	0.190	34.842	27.968	13.19
260	0.206	0.196	34.847	27.972	12.84
270	0.207	0.197	34.853	27.977	12.40
280	0.207	0.196	34.855	27.978	12.27
290	0.209	0.198	34.857	27.980	12.12
300	0.210	0.198	34.860	27.982	11.92
310	0.209	0.196	34.861	27.984	11.79
320	0.210	0.197	34.866	27.987	11.44
330	0.213	0.199	34.870	27.990	11.17
340	0.217	0.203	34.876	27.995	10.78
350	0.226	0.211	34.881	27.999	10.38
360	0.220	0.205	34.884	28.002	10.13
370	0.222	0.206	34.885	28.002	10.09
380	0.221	0.205	34.888	28.005	9.86
390	0.220	0.203	34.889	28.005	9.81
400	0.218	0.201	34.891	28.007	9.66
410	0.210	0.193	34.895	28.011	9.27
420	0.200	0.183	34.896	28.013	9.12
430	0.196	0.178	34.897	28.013	9.05
440	0.192	0.174	34.897	28.014	9.02
450	0.187	0.168	34.898	28.015	8.90

B89.498					
depth	temp	theta	salnty	sig_th	delta
460	0.185	0.166	34.899	28.015	8.86
470	0.181	0.161	34.899	28.016	8.78
480	0.173	0.153	34.900	28.017	8.67

B89.499					
depth	temp	theta	salnty	sig_th	delta
5	2.796	2.796	33.710	26.874	116.79
10	2.795	2.795	33.823	26.963	108.30
15	2.872	2.871	33.907	27.024	102.56
20	3.143	3.141	34.000	27.074	97.94
25	3.580	3.578	34.163	27.163	89.57
30	3.708	3.706	34.273	27.238	82.53
35	2.680	2.678	34.289	27.346	72.19
40	2.540	2.538	34.312	27.377	69.29
45	1.498	1.496	34.318	27.463	61.03
50	0.818	0.816	34.380	27.558	51.94
55	-0.124	-0.126	34.506	27.714	37.11
60	-0.373	-0.375	34.554	27.765	32.21
65	-0.340	-0.343	34.593	27.795	29.40
70	-0.301	-0.304	34.599	27.798	29.06
75	-0.221	-0.223	34.628	27.817	27.27
80	0.091	0.088	34.695	27.855	23.78
85	0.254	0.251	34.715	27.863	23.10
90	0.442	0.438	34.746	27.876	21.85
95	0.679	0.675	34.788	27.896	20.07
100	0.789	0.785	34.805	27.902	19.50
110	0.824	0.819	34.822	27.914	18.44
120	0.837	0.832	34.836	27.925	17.45
130	0.910	0.904	34.852	27.933	16.69
140	0.906	0.900	34.870	27.947	15.39
150	0.856	0.849	34.878	27.958	14.43
160	0.820	0.813	34.883	27.964	13.86
170	0.765	0.757	34.887	27.970	13.23
180	0.731	0.723	34.888	27.974	12.92
190	0.754	0.745	34.897	27.979	12.45
200	0.775	0.766	34.904	27.984	12.05
210	0.776	0.766	34.906	27.985	11.90
220	0.767	0.757	34.911	27.990	11.48
230	0.779	0.768	34.916	27.993	11.20
240	0.765	0.755	34.919	27.997	10.88
250	0.751	0.740	34.920	27.998	10.76
260	0.734	0.722	34.916	27.996	10.99
270	0.713	0.701	34.923	28.003	10.28
280	0.741	0.729	34.926	28.004	10.32
290	0.730	0.717	34.928	28.006	10.06
300	0.686	0.673	34.928	28.009	9.83
310	0.679	0.665	34.929	28.010	9.68
320	0.654	0.640	34.929	28.012	9.53
330	0.620	0.605	34.929	28.014	9.33
340	0.579	0.563	34.928	28.016	9.13
350	0.549	0.534	34.928	28.017	8.99
360	0.525	0.509	34.927	28.018	8.89
370	0.506	0.490	34.927	28.019	8.81
380	0.478	0.462	34.926	28.021	8.64
390	0.438	0.421	34.925	28.022	8.45
400	0.357	0.340	34.922	28.024	8.22
410	0.314	0.297	34.922	28.027	7.92
420	0.255	0.237	34.919	28.028	7.77
430	0.221	0.203	34.916	28.028	7.74
440	0.183	0.164	34.915	28.029	7.61
450	0.151	0.133	34.915	28.030	7.41

B89.499					
depth	temp	theta	salnty	sig_th	delta
460	0.126	0.107	34.914	28.031	7.34
470	0.119	0.099	34.913	28.031	7.34
480	0.088	0.068	34.914	28.033	7.10
490	0.059	0.039	34.913	28.034	6.94
500	0.038	0.017	34.913	28.035	6.83
510	0.000	-0.021	34.914	28.038	6.54
520	-0.020	-0.041	34.912	28.038	6.49
530	-0.043	-0.064	34.913	28.040	6.28
540	-0.059	-0.081	34.911	28.039	6.31
550	-0.098	-0.121	34.911	28.041	6.08
560	-0.108	-0.131	34.910	28.041	6.06
570	-0.125	-0.148	34.910	28.042	5.96
580	-0.139	-0.162	34.910	28.042	5.91
590	-0.171	-0.195	34.909	28.043	5.72
600	-0.182	-0.206	34.909	28.044	5.64
610	-0.199	-0.223	34.910	28.045	5.51
620	-0.214	-0.239	34.909	28.045	5.49
630	-0.242	-0.268	34.909	28.047	5.28
640	-0.274	-0.299	34.910	28.049	5.01
650	-0.291	-0.317	34.909	28.049	4.95
660	-0.310	-0.336	34.907	28.049	4.93
670	-0.336	-0.362	34.909	28.052	4.60
680	-0.339	-0.366	34.909	28.051	4.63
690	-0.350	-0.378	34.908	28.052	4.56
700	-0.364	-0.392	34.909	28.053	4.44
710	-0.376	-0.404	34.909	28.053	4.35
720	-0.382	-0.410	34.908	28.053	4.31
730	-0.395	-0.424	34.909	28.054	4.18
740	-0.414	-0.443	34.909	28.055	4.03
750	-0.419	-0.448	34.909	28.055	4.01
760	-0.428	-0.458	34.909	28.056	3.89
770	-0.438	-0.468	34.910	28.057	3.79
780	-0.450	-0.481	34.909	28.057	3.74
790	-0.465	-0.496	34.910	28.059	3.54
800	-0.466	-0.497	34.910	28.059	3.52
810	-0.472	-0.504	34.911	28.059	3.45
820	-0.481	-0.514	34.912	28.061	3.28
830	-0.493	-0.526	34.912	28.061	3.19
840	-0.504	-0.538	34.912	28.062	3.09
850	-0.518	-0.552	34.912	28.063	2.94
860	-0.526	-0.560	34.913	28.064	2.87
870	-0.534	-0.569	34.912	28.064	2.81
880	-0.537	-0.572	34.913	28.064	2.74
890	-0.542	-0.578	34.913	28.065	2.65
900	-0.547	-0.583	34.914	28.066	2.58
910	-0.555	-0.591	34.913	28.066	2.54
920	-0.561	-0.598	34.914	28.066	2.45
930	-0.565	-0.602	34.913	28.066	2.43
940	-0.575	-0.612	34.915	28.068	2.26
950	-0.585	-0.623	34.915	28.068	2.15
960	-0.590	-0.629	34.915	28.069	2.11
970	-0.592	-0.631	34.915	28.069	2.06
980	-0.603	-0.642	34.916	28.070	1.92
990	-0.606	-0.645	34.916	28.070	1.89
1000	-0.607	-0.647	34.916	28.070	1.86

B89.499					
depth	temp	theta	salnty	sig_th	delta
1010	-0.613	-0.654	34.916	28.070	1.80
1020	-0.628	-0.669	34.917	28.072	1.60
1030	-0.636	-0.678	34.917	28.073	1.50
1040	-0.641	-0.683	34.917	28.073	1.46
1050	-0.647	-0.689	34.917	28.073	1.36
1060	-0.657	-0.700	34.917	28.074	1.28
1070	-0.662	-0.705	34.918	28.074	1.19
1080	-0.665	-0.709	34.917	28.074	1.20
1090	-0.672	-0.717	34.918	28.075	1.07
1100	-0.677	-0.722	34.918	28.075	1.02
1110	-0.683	-0.728	34.918	28.076	0.94
1120	-0.698	-0.743	34.919	28.077	0.74
1130	-0.710	-0.756	34.919	28.077	0.67
1140	-0.725	-0.771	34.919	28.078	0.52
1150	-0.727	-0.773	34.919	28.078	0.49
1160	-0.730	-0.777	34.919	28.079	0.43
1170	-0.733	-0.781	34.919	28.079	0.41
1180	-0.739	-0.787	34.918	28.078	0.38
1190	-0.746	-0.794	34.919	28.079	0.27
1200	-0.757	-0.806	34.919	28.080	0.14
1210	-0.762	-0.811	34.919	28.080	0.13
1220	-0.762	-0.812	34.919	28.080	0.06
1230	-0.763	-0.814	34.919	28.080	0.02
1240	-0.767	-0.818	34.919	28.080	-0.01
1250	-0.774	-0.826	34.920	28.081	-0.13
1260	-0.787	-0.839	34.920	28.082	-0.26
1270	-0.799	-0.851	34.920	28.082	-0.36
1280	-0.801	-0.854	34.920	28.082	-0.40

B89.500					
depth	temp	theta	salnty	sig_th	delta
5	3.032	3.032	34.208	27.250	81.14
10	3.019	3.019	34.209	27.252	81.00
15	3.015	3.014	34.209	27.252	80.98
20	2.994	2.992	34.245	27.283	78.11
25	2.914	2.912	34.385	27.402	66.86
30	2.787	2.786	34.420	27.441	63.16
35	2.077	2.075	34.482	27.551	52.79
40	1.473	1.471	34.492	27.605	47.60
45	0.708	0.706	34.539	27.694	39.12
50	0.404	0.402	34.556	27.726	36.05
55	-0.176	-0.178	34.624	27.812	27.81
60	-0.161	-0.164	34.626	27.812	27.76
65	-0.201	-0.203	34.647	27.832	25.94
70	-0.282	-0.285	34.673	27.857	23.50
75	-0.217	-0.219	34.699	27.874	21.89
80	-0.127	-0.129	34.722	27.888	20.59
85	-0.106	-0.109	34.726	27.891	20.33
90	-0.026	-0.030	34.744	27.901	19.38
95	0.062	0.058	34.766	27.914	18.18
100	0.119	0.116	34.791	27.931	16.60
110	0.221	0.216	34.817	27.947	15.15
120	0.264	0.259	34.828	27.953	14.57
130	0.311	0.306	34.838	27.958	14.10
140	0.366	0.361	34.847	27.963	13.71
150	0.409	0.403	34.856	27.967	13.34
160	0.493	0.486	34.868	27.972	12.94
170	0.547	0.540	34.876	27.976	12.63
180	0.635	0.628	34.892	27.982	12.04
190	0.676	0.668	34.895	27.983	12.06
200	0.759	0.751	34.909	27.989	11.53
210	0.751	0.742	34.915	27.994	11.09
220	0.735	0.725	34.916	27.996	10.93
230	0.712	0.701	34.916	27.997	10.78
240	0.609	0.598	34.915	28.003	10.20
250	0.530	0.520	34.908	28.002	10.23
260	0.471	0.460	34.906	28.005	9.97
270	0.425	0.414	34.902	28.004	10.05
280	0.548	0.536	34.909	28.002	10.29
290	0.473	0.461	34.909	28.007	9.81
300	0.473	0.460	34.913	28.010	9.53
310	0.465	0.452	34.915	28.012	9.32
320	0.481	0.467	34.918	28.014	9.22
330	0.494	0.480	34.921	28.016	9.06
340	0.483	0.469	34.923	28.018	8.88
350	0.453	0.438	34.923	28.019	8.70
360	0.432	0.416	34.922	28.020	8.63
370	0.362	0.346	34.921	28.023	8.29
380	0.312	0.296	34.919	28.024	8.11
390	0.296	0.280	34.917	28.024	8.13
400	0.270	0.253	34.918	28.026	7.93
410	0.253	0.236	34.917	28.026	7.87
420	0.182	0.165	34.915	28.029	7.55
430	0.162	0.144	34.913	28.029	7.59
440	0.096	0.078	34.912	28.031	7.27
450	0.071	0.053	34.910	28.031	7.26

B89.500					
depth	temp	theta	salnty	sig_th	delta
460	0.050	0.031	34.910	28.032	7.16
470	0.041	0.021	34.909	28.032	7.14
480	0.036	0.016	34.908	28.031	7.17
490	0.018	-0.003	34.909	28.033	6.99
500	0.007	-0.014	34.910	28.034	6.86
510	-0.006	-0.027	34.910	28.035	6.75
520	-0.011	-0.033	34.910	28.035	6.74
530	-0.035	-0.057	34.911	28.038	6.48
540	-0.059	-0.081	34.911	28.039	6.32
550	-0.089	-0.112	34.912	28.041	6.07
560	-0.100	-0.122	34.912	28.042	6.02
570	-0.124	-0.147	34.912	28.043	5.81
580	-0.137	-0.160	34.912	28.044	5.75

B89.502					
depth	temp	theta	salnty	sig_th	delta
5	3.175	3.174	34.266	27.283	77.98
10	3.148	3.147	34.267	27.287	77.68
15	3.147	3.146	34.275	27.293	77.15
20	3.158	3.157	34.286	27.301	76.40
25	3.186	3.184	34.355	27.354	71.46
30	2.666	2.664	34.446	27.473	60.19
35	1.357	1.356	34.598	27.698	38.75
40	0.925	0.924	34.609	27.736	35.11
45	0.515	0.513	34.673	27.813	27.77
50	0.271	0.269	34.675	27.829	26.28
55	-0.257	-0.259	34.671	27.854	23.86
60	-0.611	-0.613	34.667	27.868	22.47
65	-0.446	-0.448	34.678	27.868	22.42
70	0.043	0.041	34.713	27.873	22.11
75	-0.173	-0.176	34.727	27.895	19.94
80	-0.327	-0.330	34.722	27.899	19.57
85	-0.182	-0.185	34.731	27.899	19.55
90	-0.218	-0.221	34.746	27.913	18.23
95	-0.170	-0.173	34.754	27.917	17.85
100	0.053	0.049	34.776	27.923	17.36
110	0.127	0.123	34.799	27.938	16.00
120	0.286	0.282	34.824	27.949	15.00
130	0.366	0.360	34.842	27.958	14.14
140	0.373	0.367	34.850	27.964	13.59
150	0.405	0.399	34.859	27.970	13.10
160	0.448	0.441	34.865	27.973	12.84
170	0.473	0.466	34.874	27.978	12.36
180	0.509	0.502	34.881	27.982	12.03
190	0.509	0.501	34.884	27.984	11.85
200	0.506	0.497	34.888	27.987	11.54
210	0.508	0.500	34.893	27.991	11.17
220	0.499	0.490	34.895	27.994	10.95
230	0.481	0.471	34.896	27.995	10.82
240	0.449	0.439	34.897	27.998	10.53
250	0.423	0.412	34.896	27.999	10.43
260	0.395	0.384	34.899	28.003	10.09
270	0.386	0.374	34.899	28.004	10.02
280	0.366	0.355	34.901	28.007	9.74
290	0.371	0.359	34.901	28.007	9.76
300	0.383	0.371	34.904	28.008	9.67
310	0.379	0.366	34.905	28.009	9.52
320	0.386	0.373	34.909	28.012	9.27
330	0.356	0.342	34.910	28.015	9.01
340	0.318	0.304	34.910	28.016	8.84
350	0.288	0.273	34.911	28.019	8.56
360	0.292	0.277	34.912	28.020	8.49
370	0.292	0.277	34.914	28.022	8.32
380	0.286	0.270	34.916	28.023	8.19
390	0.263	0.247	34.917	28.025	7.98
400	0.230	0.213	34.917	28.027	7.75
410	0.201	0.184	34.917	28.029	7.59
420	0.181	0.164	34.916	28.029	7.52
430	0.160	0.142	34.916	28.030	7.41
440	0.150	0.132	34.915	28.031	7.39
450	0.103	0.084	34.915	28.033	7.08

B89.502					
depth	temp	theta	salnty	sig_th	delta
460	0.086	0.067	34.914	28.034	7.03
470	0.070	0.051	34.914	28.034	6.98
480	0.025	0.005	34.914	28.036	6.69
490	-0.019	-0.038	34.914	28.039	6.38
500	-0.042	-0.062	34.912	28.039	6.38
510	-0.067	-0.088	34.912	28.040	6.21
520	-0.068	-0.089	34.911	28.039	6.32
530	-0.089	-0.110	34.912	28.041	6.11
540	-0.121	-0.142	34.912	28.043	5.88
550	-0.128	-0.150	34.911	28.042	5.89
560	-0.135	-0.157	34.911	28.043	5.86
570	-0.160	-0.183	34.911	28.044	5.65
580	-0.159	-0.183	34.911	28.044	5.71
590	-0.172	-0.196	34.911	28.045	5.57
600	-0.191	-0.215	34.912	28.046	5.42
610	-0.221	-0.245	34.913	28.049	5.10
620	-0.240	-0.265	34.912	28.049	5.04
630	-0.256	-0.281	34.912	28.050	4.97
640	-0.269	-0.295	34.912	28.050	4.87
650	-0.285	-0.311	34.912	28.051	4.78
660	-0.297	-0.323	34.911	28.051	4.71
670	-0.306	-0.333	34.911	28.052	4.63
680	-0.307	-0.334	34.911	28.051	4.67
690	-0.318	-0.345	34.912	28.053	4.52
700	-0.321	-0.349	34.911	28.053	4.51
710	-0.337	-0.365	34.912	28.054	4.34
720	-0.337	-0.365	34.911	28.053	4.41
730	-0.347	-0.376	34.912	28.055	4.26
740	-0.357	-0.387	34.911	28.055	4.23
750	-0.366	-0.396	34.912	28.055	4.15
760	-0.383	-0.414	34.912	28.057	3.96
770	-0.389	-0.420	34.912	28.056	3.96
780	-0.400	-0.431	34.912	28.057	3.85
790	-0.403	-0.434	34.912	28.058	3.81
800	-0.414	-0.446	34.912	28.058	3.73
810	-0.426	-0.458	34.913	28.059	3.59
820	-0.431	-0.464	34.913	28.059	3.56
830	-0.443	-0.476	34.913	28.060	3.43
840	-0.447	-0.481	34.912	28.060	3.46
850	-0.448	-0.482	34.911	28.059	3.49
860	-0.459	-0.493	34.912	28.060	3.34
870	-0.476	-0.511	34.913	28.062	3.15
880	-0.478	-0.514	34.913	28.062	3.13
890	-0.482	-0.518	34.911	28.060	3.24
900	-0.496	-0.532	34.912	28.062	3.05
910	-0.506	-0.542	34.913	28.063	2.88
920	-0.515	-0.552	34.913	28.063	2.84
930	-0.522	-0.560	34.913	28.064	2.74
940	-0.530	-0.568	34.914	28.065	2.59
950	-0.537	-0.576	34.914	28.065	2.57
960	-0.547	-0.586	34.914	28.066	2.49
970	-0.564	-0.603	34.914	28.067	2.30
980	-0.568	-0.607	34.913	28.067	2.33
990	-0.580	-0.620	34.915	28.068	2.15
1000	-0.592	-0.632	34.914	28.068	2.08
1010	-0.597	-0.638	34.914	28.069	2.02
1020	-0.608	-0.649	34.915	28.069	1.89

B89.503					
depth	temp	theta	salnty	sig_th	delta
5	2.641	2.641	33.827	26.980	106.68
10	2.787	2.786	33.984	27.093	96.02
15	3.228	3.227	34.157	27.191	86.77
20	3.202	3.201	34.174	27.207	85.26
25	3.166	3.164	34.174	27.211	84.95
30	3.118	3.116	34.174	27.215	84.60
35	3.202	3.200	34.189	27.220	84.23
40	2.966	2.964	34.213	27.260	80.40
45	1.227	1.225	34.438	27.579	50.05
50	1.099	1.097	34.542	27.671	41.31
55	0.928	0.926	34.599	27.728	35.92
60	0.467	0.464	34.630	27.782	30.76
65	0.229	0.227	34.686	27.840	25.21
70	0.210	0.208	34.700	27.853	24.01
75	0.144	0.141	34.715	27.869	22.51
80	-0.124	-0.126	34.731	27.895	19.92
85	-0.064	-0.067	34.743	27.903	19.24
90	-0.015	-0.018	34.754	27.909	18.70
95	0.022	0.019	34.759	27.911	18.51
100	0.074	0.070	34.769	27.916	18.05
110	0.227	0.222	34.792	27.926	17.14
120	0.167	0.162	34.812	27.946	15.25
130	0.197	0.192	34.818	27.949	14.96
140	0.344	0.339	34.839	27.958	14.18
150	0.461	0.455	34.860	27.967	13.35
160	0.565	0.558	34.874	27.973	12.87
170	0.648	0.641	34.885	27.976	12.62
180	0.690	0.682	34.893	27.980	12.31
190	0.674	0.666	34.899	27.986	11.76
200	0.671	0.662	34.902	27.989	11.48
210	0.678	0.669	34.907	27.992	11.22
220	0.636	0.627	34.908	27.996	10.86
230	0.621	0.611	34.908	27.996	10.81
240	0.578	0.567	34.907	27.999	10.56
250	0.555	0.544	34.907	28.000	10.43
260	0.475	0.464	34.905	28.003	10.09
270	0.420	0.409	34.902	28.004	10.02
280	0.411	0.400	34.903	28.006	9.87
290	0.368	0.356	34.904	28.009	9.56
300	0.370	0.358	34.902	28.007	9.73
310	0.358	0.345	34.905	28.010	9.41
320	0.354	0.341	34.907	28.012	9.26
330	0.337	0.323	34.907	28.014	9.11
340	0.348	0.333	34.906	28.012	9.28
350	0.323	0.308	34.910	28.016	8.85
360	0.301	0.286	34.911	28.018	8.65
370	0.295	0.280	34.911	28.019	8.61
380	0.266	0.250	34.911	28.021	8.40
390	0.244	0.228	34.911	28.022	8.27
400	0.229	0.212	34.911	28.023	8.16
410	0.215	0.198	34.911	28.023	8.12
420	0.183	0.166	34.912	28.026	7.85
430	0.163	0.146	34.911	28.027	7.75
440	0.124	0.106	34.913	28.030	7.40
450	0.114	0.095	34.911	28.030	7.43

B89.503					
depth	temp	theta	salnty	sig_th	delta
460	0.101	0.082	34.912	28.031	7.30
470	0.090	0.071	34.912	28.031	7.25
480	0.078	0.058	34.912	28.032	7.15
490	0.068	0.048	34.912	28.032	7.12
500	0.039	0.018	34.912	28.035	6.88
510	0.014	-0.007	34.913	28.036	6.67
520	-0.001	-0.022	34.912	28.037	6.63
530	-0.015	-0.037	34.911	28.036	6.63
540	-0.035	-0.057	34.912	28.039	6.40
550	-0.050	-0.073	34.912	28.039	6.36
560	-0.073	-0.096	34.912	28.040	6.20
570	-0.103	-0.126	34.913	28.042	5.92
580	-0.127	-0.150	34.912	28.044	5.78
590	-0.144	-0.167	34.913	28.045	5.65
600	-0.168	-0.192	34.912	28.046	5.51
610	-0.180	-0.205	34.911	28.045	5.50
620	-0.194	-0.219	34.912	28.047	5.33
630	-0.207	-0.232	34.912	28.048	5.25
640	-0.214	-0.240	34.912	28.048	5.21
650	-0.231	-0.258	34.913	28.049	5.03
660	-0.243	-0.269	34.912	28.049	5.01
670	-0.265	-0.292	34.913	28.051	4.81
680	-0.273	-0.301	34.912	28.051	4.77
690	-0.285	-0.313	34.912	28.052	4.69
700	-0.300	-0.328	34.913	28.053	4.52
710	-0.312	-0.340	34.912	28.053	4.48
720	-0.319	-0.348	34.912	28.053	4.48
730	-0.337	-0.367	34.913	28.055	4.25
740	-0.361	-0.390	34.913	28.056	4.07
750	-0.387	-0.417	34.913	28.058	3.87
760	-0.408	-0.438	34.913	28.058	3.76
770	-0.417	-0.448	34.912	28.058	3.78
780	-0.434	-0.465	34.913	28.060	3.55
790	-0.435	-0.467	34.913	28.060	3.55
800	-0.440	-0.471	34.913	28.060	3.51
810	-0.447	-0.479	34.912	28.060	3.47
820	-0.457	-0.489	34.912	28.060	3.40
830	-0.467	-0.500	34.913	28.061	3.27
840	-0.479	-0.512	34.913	28.062	3.17
850	-0.487	-0.521	34.913	28.062	3.11
860	-0.492	-0.527	34.913	28.063	3.05
870	-0.498	-0.533	34.914	28.063	2.97
880	-0.509	-0.544	34.913	28.063	2.90
890	-0.514	-0.549	34.913	28.063	2.90
900	-0.520	-0.556	34.913	28.063	2.85
910	-0.536	-0.572	34.914	28.065	2.63
920	-0.544	-0.581	34.914	28.066	2.57
930	-0.547	-0.584	34.913	28.065	2.58
940	-0.550	-0.587	34.913	28.065	2.54
950	-0.551	-0.590	34.914	28.066	2.47
960	-0.563	-0.601	34.914	28.067	2.35
970	-0.569	-0.608	34.914	28.067	2.33
980	-0.572	-0.612	34.914	28.067	2.25
990	-0.579	-0.619	34.914	28.067	2.20
1000	-0.588	-0.629	34.914	28.068	2.11

B89.503					
depth	temp	theta	salnty	sig_th	delta
1010	-0.592	-0.633	34.914	28.068	2.07
1020	-0.598	-0.640	34.914	28.068	2.04
1030	-0.602	-0.644	34.914	28.068	1.99
1040	-0.617	-0.659	34.915	28.070	1.78
1050	-0.621	-0.664	34.914	28.069	1.80
1060	-0.629	-0.672	34.915	28.070	1.67
1070	-0.641	-0.684	34.915	28.072	1.52
1080	-0.647	-0.691	34.915	28.072	1.46
1090	-0.650	-0.694	34.915	28.071	1.48
1100	-0.653	-0.698	34.915	28.072	1.40
1110	-0.653	-0.698	34.914	28.071	1.44
1120	-0.657	-0.703	34.915	28.072	1.34
1130	-0.660	-0.706	34.915	28.073	1.27
1140	-0.667	-0.713	34.916	28.073	1.19
1150	-0.674	-0.721	34.916	28.074	1.10
1160	-0.679	-0.727	34.916	28.074	1.05
1170	-0.687	-0.735	34.916	28.074	0.96
1180	-0.688	-0.737	34.916	28.074	0.92
1190	-0.692	-0.741	34.916	28.075	0.86
1200	-0.694	-0.744	34.916	28.075	0.82
1210	-0.695	-0.745	34.916	28.075	0.79
1220	-0.698	-0.749	34.916	28.075	0.76
1230	-0.703	-0.754	34.917	28.076	0.68
1240	-0.708	-0.760	34.917	28.076	0.61
1250	-0.712	-0.764	34.917	28.076	0.53
1260	-0.715	-0.768	34.917	28.077	0.48
1270	-0.718	-0.771	34.917	28.077	0.47
1280	-0.723	-0.777	34.917	28.077	0.37

B89.505					
depth	temp	theta	salnty	sig_th	delta
5	1.889	1.888	31.620	25.273	268.83
10	1.963	1.962	31.757	25.377	258.94
15	1.968	1.968	31.916	25.504	246.87
20	2.039	2.038	32.103	25.648	233.11
25	1.371	1.370	32.514	26.023	197.47
30	-1.342	-1.343	33.429	26.892	114.87
35	-0.390	-0.391	33.894	27.232	82.66
40	-0.535	-0.536	34.051	27.365	70.04
45	-0.187	-0.188	34.203	27.472	59.99
50	-0.478	-0.480	34.241	27.517	55.70
55	-0.766	-0.768	34.325	27.597	48.06
60	-0.171	-0.173	34.362	27.600	47.83
65	-0.379	-0.381	34.417	27.655	42.64
70	-0.484	-0.486	34.450	27.686	39.65
75	-0.308	-0.311	34.499	27.718	36.67
80	-0.214	-0.217	34.543	27.748	33.81
85	0.238	0.235	34.616	27.783	30.58
90	0.699	0.695	34.655	27.788	30.27
95	1.116	1.112	34.731	27.821	27.24
100	1.372	1.367	34.768	27.833	26.20
110	1.968	1.962	34.854	27.858	24.12
120	1.943	1.936	34.879	27.880	22.08
130	1.776	1.770	34.888	27.900	20.17
140	1.844	1.837	34.906	27.909	19.36
150	1.652	1.645	34.895	27.916	18.73
160	1.467	1.459	34.899	27.932	17.14
170	1.285	1.277	34.894	27.941	16.21
180	1.315	1.306	34.899	27.943	16.07
190	1.375	1.366	34.909	27.947	15.76
200	1.488	1.478	34.924	27.951	15.56
210	1.180	1.170	34.919	27.969	13.70
220	1.095	1.085	34.904	27.963	14.27
230	1.050	1.039	34.905	27.967	13.87
240	1.013	1.002	34.906	27.970	13.56
250	0.989	0.977	34.907	27.973	13.34
260	0.974	0.962	34.910	27.976	13.07
270	0.954	0.942	34.911	27.978	12.86
280	0.920	0.907	34.912	27.981	12.61
290	0.893	0.879	34.912	27.983	12.40
300	0.874	0.860	34.913	27.985	12.25
310	0.850	0.836	34.913	27.986	12.08
320	0.846	0.831	34.915	27.988	11.94
330	0.844	0.828	34.917	27.990	11.75
340	0.827	0.812	34.920	27.993	11.48
350	0.816	0.800	34.922	27.996	11.23
360	0.792	0.776	34.922	27.998	11.11
370	0.768	0.751	34.923	28.000	10.91
380	0.747	0.730	34.922	28.001	10.81
390	0.720	0.702	34.922	28.003	10.62
400	0.681	0.663	34.922	28.005	10.41
410	0.667	0.649	34.923	28.006	10.26
420	0.626	0.607	34.923	28.009	10.00
430	0.607	0.587	34.922	28.010	9.88
440	0.596	0.576	34.923	28.011	9.78
450	0.587	0.567	34.924	28.012	9.69

B89.505					
depth	temp	theta	salnty	sig_th	delta
460	0.564	0.544	34.923	28.013	9.56
470	0.536	0.515	34.923	28.015	9.40
480	0.509	0.488	34.923	28.016	9.23
490	0.486	0.464	34.922	28.017	9.13
500	0.454	0.432	34.922	28.019	8.95
510	0.425	0.403	34.921	28.020	8.84
520	0.393	0.370	34.919	28.020	8.74
530	0.347	0.324	34.919	28.022	8.49
540	0.322	0.298	34.917	28.023	8.42
550	0.294	0.270	34.917	28.024	8.29
560	0.286	0.261	34.916	28.024	8.29
570	0.261	0.236	34.915	28.024	8.21
580	0.236	0.210	34.915	28.026	8.00
590	0.212	0.186	34.914	28.026	7.95
600	0.183	0.157	34.914	28.028	7.73
610	0.166	0.140	34.914	28.030	7.59
620	0.128	0.101	34.913	28.031	7.40
630	0.103	0.076	34.913	28.032	7.26
640	0.086	0.058	34.913	28.033	7.16
650	0.067	0.039	34.913	28.034	6.99
660	0.045	0.017	34.912	28.035	6.93
670	0.014	-0.015	34.914	28.038	6.57
680	-0.030	-0.059	34.913	28.039	6.35
690	-0.063	-0.092	34.912	28.040	6.22
700	-0.075	-0.105	34.911	28.040	6.17
710	-0.093	-0.123	34.910	28.040	6.12
720	-0.137	-0.167	34.911	28.043	5.75
730	-0.158	-0.188	34.911	28.044	5.62
740	-0.159	-0.190	34.911	28.045	5.58
750	-0.169	-0.200	34.911	28.045	5.52
760	-0.195	-0.226	34.911	28.046	5.34
770	-0.210	-0.242	34.911	28.047	5.22
780	-0.217	-0.249	34.911	28.047	5.18
790	-0.246	-0.278	34.912	28.050	4.91
800	-0.276	-0.309	34.911	28.050	4.77
810	-0.292	-0.325	34.910	28.051	4.68
820	-0.299	-0.332	34.910	28.051	4.65
830	-0.314	-0.348	34.911	28.052	4.48
840	-0.320	-0.355	34.910	28.052	4.46
850	-0.329	-0.364	34.911	28.053	4.37
860	-0.340	-0.376	34.911	28.054	4.25
870	-0.354	-0.390	34.910	28.054	4.19
880	-0.364	-0.400	34.911	28.055	4.10
890	-0.376	-0.412	34.911	28.055	3.99
900	-0.389	-0.426	34.911	28.056	3.88
910	-0.412	-0.449	34.910	28.057	3.75
920	-0.424	-0.462	34.911	28.058	3.58
930	-0.458	-0.496	34.909	28.058	3.48
940	-0.467	-0.506	34.909	28.058	3.44
950	-0.463	-0.502	34.909	28.058	3.43
960	-0.474	-0.513	34.909	28.059	3.32
970	-0.480	-0.520	34.909	28.059	3.26
980	-0.500	-0.540	34.909	28.060	3.13
990	-0.501	-0.542	34.909	28.060	3.13
1000	-0.507	-0.548	34.909	28.060	3.04

B89.505					
depth	temp	theta	salnty	sig_th	delta
1010	-0.504	-0.546	34.909	28.061	3.03
1020	-0.512	-0.554	34.910	28.062	2.90
1030	-0.519	-0.562	34.910	28.061	2.87
1040	-0.520	-0.563	34.911	28.062	2.79
1050	-0.517	-0.560	34.912	28.063	2.72
1060	-0.520	-0.564	34.912	28.064	2.62
1070	-0.522	-0.567	34.913	28.064	2.55
1080	-0.533	-0.578	34.912	28.064	2.53
1090	-0.535	-0.580	34.913	28.065	2.46
1100	-0.547	-0.593	34.912	28.065	2.39
1110	-0.549	-0.595	34.913	28.065	2.31
1120	-0.549	-0.595	34.913	28.066	2.25
1130	-0.552	-0.599	34.914	28.067	2.13
1140	-0.563	-0.611	34.915	28.068	2.00
1150	-0.568	-0.617	34.915	28.068	1.92
1160	-0.578	-0.627	34.916	28.069	1.79
1170	-0.587	-0.636	34.916	28.070	1.71
1180	-0.595	-0.644	34.916	28.070	1.62
1190	-0.599	-0.649	34.916	28.071	1.55
1200	-0.603	-0.654	34.916	28.071	1.51
1210	-0.610	-0.660	34.916	28.071	1.43
1220	-0.617	-0.668	34.916	28.072	1.37
1230	-0.627	-0.679	34.917	28.073	1.23
1240	-0.633	-0.685	34.917	28.073	1.17
1250	-0.638	-0.691	34.916	28.073	1.14
1260	-0.641	-0.694	34.917	28.073	1.06
1270	-0.644	-0.698	34.917	28.073	1.03
1280	-0.645	-0.699	34.917	28.074	1.00
1290	-0.654	-0.709	34.918	28.074	0.86
1300	-0.657	-0.712	34.917	28.074	0.84
1310	-0.660	-0.716	34.917	28.075	0.79
1320	-0.665	-0.721	34.917	28.075	0.75
1330	-0.670	-0.727	34.918	28.075	0.65
1340	-0.678	-0.736	34.918	28.076	0.54
1350	-0.686	-0.744	34.918	28.076	0.50
1360	-0.697	-0.755	34.919	28.077	0.33
1370	-0.708	-0.767	34.918	28.078	0.24
1380	-0.716	-0.775	34.918	28.078	0.19
1390	-0.720	-0.780	34.918	28.078	0.13
1400	-0.726	-0.786	34.918	28.078	0.03
1410	-0.724	-0.785	34.918	28.078	0.03
1420	-0.730	-0.791	34.919	28.079	-0.09
1430	-0.739	-0.801	34.918	28.079	-0.13
1440	-0.742	-0.804	34.918	28.079	-0.16
1450	-0.752	-0.814	34.919	28.080	-0.28
1460	-0.755	-0.818	34.918	28.080	-0.30
1470	-0.757	-0.821	34.917	28.079	-0.28
1480	-0.761	-0.825	34.918	28.080	-0.39
1490	-0.764	-0.829	34.918	28.080	-0.45
1500	-0.768	-0.833	34.918	28.080	-0.50
1510	-0.771	-0.837	34.918	28.081	-0.54
1520	-0.774	-0.840	34.918	28.081	-0.58
1530	-0.780	-0.846	34.918	28.081	-0.66
1540	-0.782	-0.849	34.919	28.082	-0.73
1550	-0.785	-0.853	34.920	28.082	-0.83

B89.505					
depth	temp	theta	salnty	sig_th	delta
1560	-0.789	-0.857	34.919	28.082	-0.83
1570	-0.793	-0.861	34.919	28.082	-0.87
1580	-0.800	-0.869	34.919	28.082	-0.96
1590	-0.807	-0.877	34.919	28.083	-1.04
1600	-0.820	-0.890	34.919	28.083	-1.19
1610	-0.829	-0.899	34.919	28.084	-1.28
1620	-0.833	-0.904	34.918	28.084	-1.29
1630	-0.835	-0.906	34.918	28.083	-1.32

B89.506					
depth	temp	theta	salnty	sig_th	delta
5	2.232	2.232	33.290	26.584	144.25
10	2.417	2.416	33.857	27.023	102.67
15	2.542	2.542	33.972	27.104	94.97
20	2.724	2.723	34.059	27.159	89.87
25	2.942	2.941	34.124	27.191	86.83
30	2.982	2.980	34.181	27.233	82.92
35	2.751	2.749	34.221	27.286	77.89
40	0.787	0.785	34.242	27.450	62.20
45	-0.168	-0.169	34.344	27.585	49.28
50	-0.290	-0.292	34.386	27.625	45.48
55	-0.181	-0.183	34.417	27.645	43.59
60	-0.001	-0.003	34.491	27.695	38.87
65	-0.066	-0.068	34.544	27.741	34.49
70	-0.442	-0.444	34.555	27.769	31.76
75	-0.514	-0.516	34.561	27.777	31.03
80	-0.526	-0.529	34.596	27.806	28.26
85	-0.561	-0.564	34.591	27.803	28.49
90	-0.628	-0.631	34.600	27.814	27.50
95	-0.165	-0.169	34.635	27.820	26.99
100	0.223	0.219	34.678	27.834	25.77
110	0.619	0.615	34.768	27.883	21.27
120	0.520	0.515	34.800	27.916	18.19
130	0.554	0.549	34.811	27.923	17.57
140	0.872	0.866	34.847	27.932	16.87
150	0.872	0.866	34.865	27.946	15.56
160	0.858	0.851	34.871	27.952	15.00
170	0.968	0.960	34.891	27.960	14.27
180	0.904	0.896	34.893	27.967	13.67
190	0.810	0.802	34.894	27.973	13.04
200	0.798	0.789	34.897	27.977	12.69
210	0.776	0.767	34.899	27.980	12.42
220	0.788	0.778	34.902	27.982	12.29
230	0.752	0.742	34.905	27.986	11.89
240	0.745	0.734	34.908	27.989	11.65
250	0.762	0.751	34.912	27.991	11.42
260	0.767	0.756	34.917	27.995	11.14
270	0.743	0.731	34.918	27.997	10.88
280	0.742	0.730	34.921	27.999	10.70
290	0.742	0.729	34.922	28.000	10.64
300	0.722	0.708	34.925	28.004	10.30
310	0.731	0.717	34.927	28.005	10.22
320	0.729	0.714	34.929	28.007	10.04
330	0.695	0.680	34.930	28.010	9.79
340	0.660	0.645	34.930	28.013	9.52
350	0.633	0.617	34.930	28.014	9.40
360	0.598	0.582	34.929	28.015	9.27
370	0.571	0.555	34.929	28.017	9.05
380	0.542	0.526	34.927	28.017	9.06
390	0.506	0.489	34.926	28.019	8.88
400	0.439	0.421	34.924	28.021	8.57
410	0.439	0.422	34.924	28.021	8.63
420	0.404	0.386	34.924	28.023	8.41
430	0.366	0.347	34.922	28.024	8.24
440	0.333	0.314	34.921	28.025	8.14
450	0.302	0.282	34.919	28.025	8.07

B89.506					
depth	temp	theta	salnty	sig_th	delta
460	0.264	0.245	34.918	28.027	7.89
470	0.225	0.205	34.917	28.028	7.72
480	0.197	0.177	34.916	28.029	7.61
490	0.168	0.147	34.916	28.031	7.43
500	0.124	0.103	34.916	28.033	7.18
510	0.105	0.084	34.914	28.033	7.17
520	0.076	0.055	34.915	28.035	6.93
530	0.052	0.030	34.913	28.035	6.89
540	0.028	0.006	34.914	28.036	6.71
550	0.003	-0.019	34.913	28.037	6.59
560	-0.008	-0.031	34.913	28.037	6.55
570	-0.020	-0.043	34.913	28.038	6.47
580	-0.028	-0.052	34.912	28.038	6.44
590	-0.073	-0.098	34.912	28.040	6.18
600	-0.091	-0.116	34.912	28.041	6.06
610	-0.111	-0.136	34.912	28.042	5.92
620	-0.136	-0.161	34.912	28.043	5.77
630	-0.151	-0.176	34.912	28.045	5.62
640	-0.167	-0.193	34.912	28.046	5.51
650	-0.185	-0.211	34.912	28.046	5.42
660	-0.201	-0.227	34.913	28.048	5.21
670	-0.217	-0.244	34.911	28.048	5.22
680	-0.228	-0.256	34.911	28.048	5.15
690	-0.241	-0.269	34.911	28.049	5.05
700	-0.266	-0.294	34.912	28.050	4.84
710	-0.282	-0.310	34.912	28.052	4.68
720	-0.300	-0.329	34.912	28.052	4.58
730	-0.315	-0.345	34.911	28.053	4.51
740	-0.327	-0.356	34.911	28.053	4.47
750	-0.339	-0.369	34.912	28.054	4.30
760	-0.352	-0.383	34.912	28.055	4.18
770	-0.359	-0.390	34.912	28.055	4.18
780	-0.374	-0.405	34.912	28.056	4.02
790	-0.382	-0.413	34.912	28.056	3.96
800	-0.393	-0.425	34.912	28.057	3.88
810	-0.410	-0.442	34.913	28.058	3.71
820	-0.417	-0.450	34.913	28.059	3.63
830	-0.426	-0.460	34.913	28.059	3.58
840	-0.432	-0.466	34.912	28.059	3.57
850	-0.445	-0.479	34.912	28.060	3.43
860	-0.454	-0.489	34.913	28.061	3.31
870	-0.460	-0.495	34.913	28.061	3.28
880	-0.466	-0.502	34.913	28.061	3.20
890	-0.476	-0.512	34.913	28.062	3.12
900	-0.482	-0.519	34.913	28.062	3.06
910	-0.489	-0.526	34.913	28.063	3.00
920	-0.495	-0.533	34.914	28.064	2.89
930	-0.504	-0.541	34.914	28.064	2.84
940	-0.509	-0.547	34.913	28.064	2.80
950	-0.519	-0.558	34.914	28.065	2.66
960	-0.529	-0.568	34.914	28.065	2.59
970	-0.535	-0.574	34.914	28.066	2.52
980	-0.541	-0.581	34.914	28.066	2.44
990	-0.549	-0.589	34.914	28.066	2.40
1000	-0.553	-0.593	34.914	28.066	2.36

B89.506					
depth	temp	theta	salnty	sig_th	delta
1010	-0.552	-0.593	34.915	28.067	2.28
1020	-0.562	-0.604	34.916	28.068	2.14
1030	-0.571	-0.613	34.915	28.068	2.08
1040	-0.577	-0.619	34.916	28.069	1.99
1050	-0.585	-0.628	34.916	28.069	1.92
1060	-0.588	-0.631	34.916	28.070	1.88
1070	-0.596	-0.640	34.917	28.071	1.75
1080	-0.607	-0.651	34.916	28.071	1.70
1090	-0.612	-0.657	34.916	28.071	1.62
1100	-0.618	-0.663	34.916	28.071	1.58
1110	-0.624	-0.669	34.916	28.071	1.54
1120	-0.627	-0.673	34.916	28.072	1.46
1130	-0.636	-0.682	34.917	28.072	1.36
1140	-0.638	-0.685	34.916	28.072	1.35
1150	-0.647	-0.695	34.917	28.073	1.23
1160	-0.654	-0.702	34.916	28.073	1.20
1170	-0.656	-0.705	34.916	28.073	1.15
1180	-0.661	-0.710	34.917	28.074	1.07
1190	-0.671	-0.720	34.917	28.074	0.99
1200	-0.680	-0.730	34.917	28.075	0.89
1210	-0.683	-0.733	34.917	28.075	0.85
1220	-0.686	-0.737	34.917	28.075	0.82
1230	-0.689	-0.740	34.917	28.075	0.75
1240	-0.692	-0.744	34.917	28.075	0.74
1250	-0.695	-0.747	34.916	28.075	0.71
1260	-0.697	-0.750	34.917	28.076	0.63
1270	-0.700	-0.753	34.917	28.076	0.57
1280	-0.702	-0.756	34.917	28.076	0.55
1290	-0.705	-0.759	34.917	28.076	0.49
1300	-0.703	-0.757	34.917	28.076	0.51
1310	-0.707	-0.762	34.918	28.077	0.41
1320	-0.711	-0.766	34.917	28.077	0.40
1330	-0.710	-0.767	34.917	28.076	0.41
1340	-0.717	-0.774	34.918	28.077	0.27
1350	-0.720	-0.777	34.918	28.077	0.23
1360	-0.722	-0.780	34.918	28.078	0.18
1370	-0.725	-0.783	34.918	28.078	0.12
1380	-0.725	-0.784	34.918	28.078	0.08
1390	-0.728	-0.787	34.919	28.079	-0.01
1400	-0.730	-0.790	34.919	28.079	-0.03
1410	-0.733	-0.793	34.919	28.079	-0.07
1420	-0.735	-0.796	34.919	28.079	-0.11
1430	-0.737	-0.799	34.919	28.079	-0.15
1440	-0.738	-0.800	34.918	28.079	-0.14
1450	-0.745	-0.808	34.919	28.080	-0.27
1460	-0.747	-0.810	34.919	28.080	-0.29
1470	-0.751	-0.815	34.919	28.080	-0.33
1480	-0.754	-0.818	34.918	28.080	-0.35
1490	-0.757	-0.821	34.919	28.080	-0.41
1500	-0.756	-0.821	34.919	28.080	-0.44
1510	-0.758	-0.823	34.918	28.080	-0.41
1520	-0.761	-0.827	34.919	28.081	-0.51
1530	-0.765	-0.832	34.919	28.081	-0.58
1540	-0.768	-0.835	34.919	28.081	-0.61
1550	-0.769	-0.836	34.919	28.081	-0.63

B89.506					
depth	temp	theta	salnty	sig_th	delta
1560	-0.772	-0.840	34.919	28.081	-0.67
1570	-0.772	-0.841	34.919	28.081	-0.71
1580	-0.773	-0.843	34.919	28.081	-0.74
1590	-0.774	-0.844	34.919	28.081	-0.76
1600	-0.775	-0.845	34.919	28.081	-0.80
1610	-0.774	-0.845	34.918	28.081	-0.76
1620	-0.774	-0.846	34.919	28.081	-0.82
1630	-0.773	-0.846	34.918	28.080	-0.76
1640	-0.774	-0.847	34.919	28.081	-0.85
1650	-0.774	-0.848	34.919	28.081	-0.88
1660	-0.774	-0.848	34.919	28.081	-0.90
1670	-0.774	-0.849	34.919	28.081	-0.93
1680	-0.774	-0.849	34.919	28.082	-0.96
1690	-0.774	-0.850	34.919	28.082	-0.97
1700	-0.773	-0.850	34.919	28.082	-0.99
1710	-0.773	-0.851	34.919	28.082	-1.01
1720	-0.773	-0.851	34.919	28.082	-1.02

B89.507					
depth	temp	theta	salnty	sig_th	delta
5	1.179	1.179	31.040	24.852	308.85
10	1.264	1.263	31.108	24.902	304.09
15	2.197	2.197	31.868	25.449	252.07
20	2.160	2.159	32.102	25.639	234.05
25	1.962	1.960	32.254	25.775	221.10
30	0.561	0.560	32.622	26.159	184.55
35	-1.294	-1.295	33.285	26.773	126.13
40	-0.242	-0.243	33.906	27.235	82.39
45	-0.638	-0.639	34.093	27.404	66.38
50	-0.846	-0.847	34.219	27.514	55.89
55	-0.768	-0.770	34.278	27.559	51.64
60	-0.506	-0.508	34.352	27.608	47.07
65	-0.292	-0.294	34.401	27.637	44.28
70	-0.424	-0.427	34.443	27.677	40.47
75	-0.436	-0.438	34.485	27.712	37.17
80	-0.140	-0.143	34.526	27.731	35.46
85	0.061	0.058	34.570	27.756	33.15
90	0.614	0.610	34.623	27.767	32.22
95	0.765	0.761	34.655	27.784	30.71
100	0.282	0.278	34.655	27.812	27.87
110	-0.261	-0.265	34.639	27.828	26.19
120	0.775	0.769	34.749	27.858	23.70
130	0.866	0.860	34.797	27.891	20.65
140	0.973	0.966	34.819	27.903	19.65
150	0.997	0.990	34.838	27.916	18.44
160	0.843	0.836	34.838	27.926	17.44
170	1.144	1.136	34.872	27.934	16.88
180	1.122	1.113	34.880	27.941	16.19
190	1.053	1.044	34.883	27.949	15.47
200	0.977	0.967	34.880	27.951	15.21
210	1.013	1.004	34.892	27.959	14.54
220	0.938	0.928	34.890	27.962	14.22
230	0.976	0.965	34.896	27.964	14.07
240	0.949	0.938	34.901	27.970	13.52
250	0.926	0.915	34.903	27.973	13.23
260	0.926	0.914	34.906	27.976	13.00
270	0.943	0.930	34.913	27.980	12.62
280	0.930	0.917	34.915	27.983	12.44
290	0.912	0.898	34.917	27.985	12.19
300	0.912	0.898	34.921	27.989	11.88
310	0.896	0.881	34.923	27.991	11.67
320	0.894	0.879	34.928	27.996	11.26
330	0.833	0.818	34.924	27.997	11.15
340	0.808	0.793	34.924	27.998	11.00
350	0.791	0.775	34.926	28.001	10.73
360	0.766	0.750	34.927	28.004	10.51
370	0.723	0.706	34.928	28.007	10.17
380	0.696	0.678	34.927	28.008	10.10
390	0.677	0.659	34.926	28.008	10.05
400	0.645	0.627	34.926	28.010	9.82
410	0.623	0.605	34.926	28.012	9.69
420	0.606	0.587	34.925	28.012	9.66
430	0.581	0.562	34.924	28.013	9.59
440	0.558	0.539	34.924	28.014	9.46
450	0.544	0.524	34.923	28.014	9.41

B89.507					
depth	temp	theta	salnty	sig_th	delta
460	0.517	0.496	34.923	28.016	9.24
470	0.493	0.472	34.922	28.017	9.15
480	0.461	0.440	34.921	28.018	9.01
490	0.429	0.407	34.920	28.019	8.91
500	0.400	0.378	34.919	28.019	8.81
510	0.360	0.338	34.918	28.021	8.60
520	0.342	0.320	34.917	28.022	8.54
530	0.322	0.299	34.917	28.022	8.47
540	0.288	0.265	34.916	28.024	8.29
550	0.263	0.239	34.915	28.025	8.15
560	0.235	0.211	34.914	28.025	8.06
570	0.226	0.202	34.915	28.027	7.93
580	0.208	0.183	34.915	28.028	7.81
590	0.198	0.172	34.915	28.028	7.79
600	0.169	0.143	34.914	28.029	7.64
610	0.156	0.130	34.914	28.030	7.52
620	0.134	0.108	34.914	28.031	7.40
630	0.116	0.089	34.914	28.032	7.29
640	0.092	0.064	34.913	28.033	7.16
650	0.065	0.038	34.913	28.034	7.01
660	0.049	0.021	34.913	28.035	6.88
670	0.026	-0.002	34.913	28.036	6.75
680	-0.002	-0.031	34.912	28.037	6.64
690	-0.018	-0.047	34.912	28.038	6.50
700	-0.039	-0.069	34.911	28.038	6.42
710	-0.058	-0.088	34.912	28.040	6.24
720	-0.072	-0.103	34.912	28.040	6.16
730	-0.098	-0.129	34.912	28.042	5.93
740	-0.127	-0.158	34.912	28.044	5.72
750	-0.141	-0.173	34.911	28.044	5.68
760	-0.165	-0.197	34.912	28.045	5.50
770	-0.184	-0.217	34.912	28.046	5.35
780	-0.194	-0.226	34.911	28.047	5.31
790	-0.207	-0.240	34.912	28.048	5.17
800	-0.236	-0.269	34.911	28.048	5.05
810	-0.253	-0.286	34.911	28.049	4.92
820	-0.266	-0.300	34.910	28.049	4.86
830	-0.277	-0.311	34.911	28.050	4.74
840	-0.281	-0.316	34.911	28.050	4.72
850	-0.287	-0.323	34.911	28.051	4.66
860	-0.301	-0.337	34.911	28.052	4.55
870	-0.317	-0.353	34.911	28.053	4.41
880	-0.336	-0.373	34.911	28.053	4.27
890	-0.348	-0.385	34.910	28.053	4.24
900	-0.359	-0.396	34.910	28.054	4.14
910	-0.388	-0.426	34.910	28.055	3.97
920	-0.418	-0.456	34.909	28.056	3.80
930	-0.438	-0.476	34.908	28.056	3.70
940	-0.447	-0.485	34.908	28.056	3.65
950	-0.444	-0.483	34.909	28.057	3.58
960	-0.435	-0.474	34.910	28.058	3.53
970	-0.439	-0.479	34.911	28.059	3.42
980	-0.453	-0.493	34.911	28.060	3.28
990	-0.459	-0.500	34.912	28.060	3.19
1000	-0.469	-0.510	34.912	28.061	3.13

B89.507					
depth	temp	theta	salnty	sig_th	delta
1010	-0.480	-0.522	34.913	28.062	2.93
1020	-0.484	-0.527	34.912	28.062	2.96
1030	-0.492	-0.534	34.912	28.062	2.89
1040	-0.512	-0.555	34.911	28.063	2.79
1050	-0.512	-0.556	34.912	28.063	2.73
1060	-0.520	-0.564	34.912	28.064	2.64
1070	-0.519	-0.563	34.913	28.064	2.61
1080	-0.524	-0.569	34.914	28.065	2.46
1090	-0.530	-0.576	34.914	28.065	2.41
1100	-0.533	-0.579	34.914	28.066	2.34
1110	-0.538	-0.584	34.914	28.066	2.27
1120	-0.546	-0.593	34.914	28.067	2.19
1130	-0.553	-0.600	34.915	28.067	2.10
1140	-0.559	-0.607	34.915	28.068	2.01
1150	-0.565	-0.613	34.915	28.068	1.98
1160	-0.573	-0.622	34.915	28.069	1.87
1170	-0.583	-0.632	34.915	28.069	1.79
1180	-0.587	-0.637	34.915	28.070	1.71
1190	-0.593	-0.643	34.916	28.070	1.63
1200	-0.601	-0.651	34.916	28.071	1.53
1210	-0.608	-0.659	34.916	28.071	1.44
1220	-0.615	-0.666	34.917	28.072	1.34
1230	-0.625	-0.677	34.917	28.073	1.23
1240	-0.630	-0.682	34.916	28.072	1.26
1250	-0.634	-0.687	34.917	28.073	1.15
1260	-0.637	-0.690	34.917	28.073	1.10
1270	-0.640	-0.694	34.917	28.073	1.06
1280	-0.647	-0.701	34.917	28.074	0.96
1290	-0.652	-0.707	34.917	28.074	0.91
1300	-0.656	-0.711	34.917	28.074	0.86
1310	-0.664	-0.720	34.917	28.075	0.76
1320	-0.674	-0.730	34.918	28.076	0.64
1330	-0.681	-0.737	34.917	28.076	0.59
1340	-0.684	-0.741	34.917	28.076	0.57
1350	-0.691	-0.749	34.918	28.076	0.44
1360	-0.697	-0.755	34.918	28.077	0.39
1370	-0.707	-0.765	34.917	28.077	0.31
1380	-0.714	-0.773	34.917	28.077	0.25
1390	-0.715	-0.775	34.917	28.077	0.22
1400	-0.719	-0.779	34.918	28.078	0.13
1410	-0.724	-0.784	34.918	28.078	0.07
1420	-0.729	-0.789	34.918	28.079	-0.03
1430	-0.734	-0.796	34.918	28.079	-0.08
1440	-0.739	-0.801	34.918	28.079	-0.11
1450	-0.743	-0.806	34.918	28.079	-0.20
1460	-0.746	-0.809	34.918	28.079	-0.24
1470	-0.750	-0.814	34.918	28.079	-0.28
1480	-0.754	-0.818	34.919	28.080	-0.35
1490	-0.762	-0.827	34.919	28.081	-0.47
1500	-0.770	-0.835	34.919	28.081	-0.55
1510	-0.773	-0.838	34.919	28.081	-0.58
1520	-0.776	-0.843	34.918	28.081	-0.60
1530	-0.784	-0.850	34.919	28.082	-0.73
1540	-0.788	-0.855	34.919	28.082	-0.79
1550	-0.795	-0.863	34.919	28.082	-0.87

B89.507					
depth	temp	theta	salnty	sig_th	delta
1560	-0.800	-0.868	34.919	28.082	-0.90
1570	-0.807	-0.875	34.919	28.083	-0.99
1580	-0.810	-0.879	34.919	28.083	-1.02
1590	-0.812	-0.882	34.918	28.082	-1.04
1600	-0.821	-0.891	34.919	28.083	-1.16
1610	-0.828	-0.898	34.919	28.083	-1.25
1620	-0.833	-0.904	34.919	28.084	-1.30
1630	-0.837	-0.908	34.918	28.084	-1.34
1640	-0.841	-0.913	34.918	28.083	-1.36
1650	-0.850	-0.922	34.919	28.084	-1.51
1660	-0.855	-0.928	34.918	28.084	-1.55
1670	-0.855	-0.928	34.918	28.084	-1.56

B89.509					
depth	temp	theta	salnty	sig_th	delta
5	-0.559	-0.559	30.315	24.345	357.10
10	-0.530	-0.531	30.331	24.357	355.92
15	-0.491	-0.492	30.343	24.366	355.07
20	-0.965	-0.966	32.628	26.230	177.69
25	-1.221	-1.222	33.118	26.635	139.25
30	-1.405	-1.405	33.371	26.846	119.15
35	-1.341	-1.342	33.564	27.001	104.46
40	-1.498	-1.499	33.651	27.076	97.28
45	-1.164	-1.165	33.708	27.112	93.92
50	-1.385	-1.386	33.886	27.264	79.49
55	-1.196	-1.197	33.990	27.342	72.13
60	-0.906	-0.908	34.069	27.395	67.11
65	-1.183	-1.185	34.157	27.477	59.32
70	-1.307	-1.309	34.150	27.476	59.37
75	-1.296	-1.298	34.163	27.485	58.42
80	-1.281	-1.283	34.182	27.501	56.96
85	-0.808	-0.811	34.219	27.513	55.91
90	-1.100	-1.102	34.286	27.579	49.57
95	-0.978	-0.981	34.285	27.574	50.08
100	-0.570	-0.573	34.272	27.546	52.81
110	-0.531	-0.534	34.404	27.651	42.88
120	-0.085	-0.089	34.474	27.686	39.69
130	-0.069	-0.074	34.549	27.746	34.03
140	0.684	0.678	34.656	27.790	30.17
150	0.340	0.334	34.662	27.815	27.63
160	0.621	0.615	34.700	27.829	26.48
170	0.685	0.677	34.737	27.855	24.07
180	0.800	0.792	34.769	27.874	22.39
190	0.893	0.884	34.797	27.890	20.95
200	0.971	0.962	34.813	27.898	20.24
210	1.027	1.017	34.832	27.909	19.23
220	0.965	0.955	34.845	27.924	17.87
230	0.895	0.884	34.840	27.925	17.74
240	0.889	0.879	34.843	27.927	17.53
250	1.100	1.088	34.868	27.934	17.08
260	1.295	1.282	34.890	27.938	16.85
270	1.270	1.256	34.900	27.948	15.97
280	1.073	1.060	34.897	27.959	14.81
290	1.046	1.033	34.900	27.963	14.41
300	0.955	0.941	34.897	27.966	14.04
310	0.989	0.974	34.906	27.972	13.61
320	0.963	0.948	34.908	27.975	13.28
330	0.950	0.935	34.912	27.979	12.89
340	0.922	0.906	34.914	27.983	12.56
350	0.888	0.872	34.915	27.986	12.26
360	0.873	0.856	34.914	27.986	12.25
370	0.860	0.842	34.917	27.990	11.94
380	0.818	0.800	34.916	27.992	11.74
390	0.869	0.850	34.922	27.993	11.69
400	0.847	0.828	34.925	27.996	11.35
410	0.813	0.794	34.925	27.999	11.13
420	0.789	0.769	34.924	28.000	11.02
430	0.758	0.738	34.925	28.002	10.78
440	0.732	0.712	34.926	28.005	10.55
450	0.703	0.682	34.928	28.008	10.20

B89.509					
depth	temp	theta	salnty	sig_th	delta
460	0.668	0.647	34.926	28.009	10.06
470	0.616	0.595	34.926	28.012	9.73
480	0.601	0.579	34.926	28.013	9.65
490	0.548	0.526	34.925	28.015	9.38
500	0.512	0.489	34.922	28.016	9.34
510	0.454	0.431	34.921	28.018	9.06
520	0.435	0.412	34.918	28.017	9.11
530	0.408	0.385	34.918	28.018	8.96
540	0.397	0.373	34.917	28.018	8.96
550	0.376	0.352	34.916	28.019	8.87
560	0.368	0.343	34.916	28.019	8.83
570	0.366	0.340	34.917	28.020	8.78
580	0.350	0.325	34.918	28.022	8.62
590	0.304	0.279	34.917	28.024	8.37
600	0.289	0.263	34.916	28.024	8.35
610	0.277	0.250	34.915	28.024	8.30
620	0.254	0.227	34.916	28.026	8.13
630	0.217	0.190	34.913	28.026	8.05
640	0.175	0.147	34.913	28.028	7.80
650	0.155	0.127	34.912	28.029	7.69
660	0.136	0.107	34.912	28.030	7.54
670	0.091	0.062	34.913	28.032	7.22
680	0.074	0.045	34.912	28.032	7.18
690	0.034	0.005	34.912	28.035	6.88
700	0.005	-0.024	34.908	28.034	6.93
710	-0.030	-0.060	34.911	28.038	6.47
720	-0.053	-0.083	34.911	28.039	6.37
730	-0.081	-0.111	34.911	28.040	6.15
740	-0.106	-0.137	34.909	28.040	6.10
750	-0.140	-0.171	34.909	28.042	5.85
760	-0.146	-0.177	34.909	28.042	5.82
770	-0.161	-0.194	34.910	28.044	5.65
780	-0.182	-0.214	34.910	28.045	5.50
790	-0.205	-0.238	34.909	28.045	5.40
800	-0.213	-0.246	34.908	28.045	5.42
810	-0.252	-0.285	34.908	28.046	5.17
820	-0.281	-0.315	34.908	28.048	4.96
830	-0.291	-0.325	34.907	28.048	4.93
840	-0.283	-0.318	34.907	28.048	4.94
850	-0.305	-0.340	34.908	28.050	4.72
860	-0.324	-0.360	34.908	28.050	4.61
870	-0.340	-0.375	34.908	28.051	4.49
880	-0.348	-0.384	34.909	28.052	4.34
890	-0.353	-0.389	34.908	28.052	4.37
900	-0.372	-0.409	34.909	28.054	4.16
910	-0.378	-0.415	34.909	28.054	4.12
920	-0.395	-0.433	34.909	28.055	3.97
930	-0.418	-0.456	34.907	28.054	3.93
940	-0.432	-0.471	34.906	28.054	3.88
950	-0.442	-0.481	34.906	28.055	3.82
960	-0.448	-0.488	34.905	28.054	3.86
970	-0.458	-0.498	34.906	28.055	3.70
980	-0.464	-0.504	34.906	28.056	3.64
990	-0.468	-0.509	34.905	28.055	3.63
1000	-0.472	-0.513	34.906	28.056	3.52

B89.509					
depth	temp	theta	salnty	sig_th	delta
1010	-0.476	-0.518	34.906	28.057	3.47
1020	-0.478	-0.521	34.906	28.057	3.44
1030	-0.486	-0.529	34.907	28.057	3.34
1040	-0.496	-0.539	34.907	28.058	3.24
1050	-0.500	-0.544	34.906	28.058	3.24
1060	-0.508	-0.552	34.907	28.058	3.15
1070	-0.511	-0.556	34.907	28.059	3.09
1080	-0.517	-0.562	34.907	28.059	3.05
1090	-0.516	-0.562	34.908	28.060	2.90
1100	-0.514	-0.560	34.909	28.061	2.88
1110	-0.521	-0.568	34.908	28.061	2.85
1120	-0.518	-0.565	34.909	28.061	2.79
1130	-0.525	-0.573	34.910	28.062	2.69
1140	-0.531	-0.579	34.910	28.062	2.62
1150	-0.535	-0.584	34.910	28.063	2.54
1160	-0.538	-0.587	34.910	28.063	2.50
1170	-0.540	-0.589	34.910	28.063	2.47
1180	-0.545	-0.595	34.911	28.064	2.37
1190	-0.549	-0.599	34.911	28.064	2.32
1200	-0.556	-0.607	34.912	28.065	2.17
1210	-0.559	-0.610	34.912	28.066	2.13
1220	-0.560	-0.612	34.912	28.066	2.09
1230	-0.565	-0.617	34.913	28.066	2.00
1240	-0.567	-0.620	34.913	28.067	1.95
1250	-0.569	-0.622	34.913	28.067	1.94
1260	-0.576	-0.629	34.913	28.068	1.83
1270	-0.586	-0.640	34.914	28.068	1.71
1280	-0.589	-0.643	34.914	28.069	1.63
1290	-0.596	-0.651	34.915	28.070	1.53
1300	-0.596	-0.652	34.914	28.069	1.53
1310	-0.601	-0.657	34.915	28.070	1.42
1320	-0.613	-0.670	34.915	28.071	1.30
1330	-0.623	-0.680	34.916	28.072	1.13
1340	-0.636	-0.694	34.915	28.072	1.09
1350	-0.662	-0.720	34.916	28.074	0.80
1360	-0.674	-0.733	34.918	28.076	0.56
1370	-0.680	-0.739	34.917	28.075	0.54
1380	-0.687	-0.747	34.918	28.076	0.44
1390	-0.691	-0.751	34.917	28.076	0.40
1400	-0.706	-0.766	34.917	28.077	0.29

B89.510					
depth	temp	theta	salnty	sig_th	delta
5	-1.462	-1.462	30.326	24.376	354.11
10	-1.461	-1.462	30.326	24.376	354.07
15	-1.153	-1.153	31.177	25.060	288.97
20	-1.052	-1.053	32.245	25.923	206.90
25	-1.395	-1.395	32.403	26.060	193.81
30	-1.620	-1.621	32.501	26.145	185.67
35	-1.699	-1.700	32.555	26.191	181.27
40	-1.724	-1.725	32.585	26.216	178.83
45	-1.736	-1.737	32.629	26.252	175.35
50	-1.748	-1.749	32.679	26.293	171.43
55	-1.745	-1.746	32.738	26.341	166.87
60	-1.741	-1.742	32.792	26.385	162.64
65	-1.734	-1.736	32.836	26.420	159.30
70	-1.733	-1.735	32.932	26.498	151.87
75	-1.730	-1.732	33.024	26.573	144.68
80	-1.721	-1.722	33.136	26.664	136.04
85	-1.717	-1.719	33.238	26.747	128.16
90	-1.709	-1.711	33.368	26.852	118.14
95	-1.704	-1.706	33.449	26.918	111.90
100	-1.700	-1.702	33.554	27.003	103.79
110	-1.692	-1.695	33.677	27.103	94.29
120	-1.677	-1.679	33.800	27.203	84.80
130	-1.655	-1.658	33.895	27.279	77.53
140	-1.678	-1.681	33.981	27.349	70.81
150	-1.606	-1.610	34.051	27.404	65.56
160	-1.644	-1.647	34.104	27.448	61.37
170	-1.589	-1.593	34.161	27.493	57.06
180	-1.464	-1.469	34.191	27.514	55.11
190	-1.427	-1.432	34.260	27.569	49.93
200	-1.170	-1.176	34.322	27.610	46.15
210	-0.672	-0.679	34.398	27.653	42.39
220	-0.403	-0.410	34.464	27.694	38.67
230	-0.027	-0.035	34.519	27.720	36.44
240	0.208	0.199	34.577	27.754	33.36
250	0.398	0.387	34.652	27.804	28.82
260	0.679	0.668	34.732	27.851	24.55
270	0.856	0.844	34.783	27.882	21.86
280	0.898	0.885	34.820	27.909	19.36
290	0.871	0.857	34.848	27.932	17.13
300	0.798	0.784	34.869	27.955	15.00
310	0.740	0.726	34.882	27.969	13.66
320	0.727	0.713	34.891	27.976	12.94
330	0.696	0.681	34.900	27.986	12.07
340	0.675	0.659	34.903	27.989	11.71
350	0.675	0.659	34.902	27.989	11.75

B89.512					
depth	temp	theta	salnty	sig_th	delta
5	-1.355	-1.355	30.437	24.464	345.72
10	-1.352	-1.352	30.453	24.478	344.42
15	-1.287	-1.287	31.221	25.099	285.23
20	-1.440	-1.440	32.116	25.828	215.82
25	-1.497	-1.498	32.234	25.926	206.51
30	-1.511	-1.511	32.421	26.078	192.03
35	-1.607	-1.608	32.643	26.260	174.72
40	-1.543	-1.544	32.855	26.431	158.50
45	-1.591	-1.592	33.042	26.584	143.89
50	-1.609	-1.610	33.131	26.657	136.98
55	-1.630	-1.631	33.255	26.758	127.35
60	-1.722	-1.723	33.420	26.895	114.34
65	-1.703	-1.704	33.537	26.989	105.37
70	-1.683	-1.684	33.606	27.044	100.09
75	-1.656	-1.658	33.667	27.094	95.38
80	-1.668	-1.670	33.740	27.153	89.73
85	-1.652	-1.654	33.807	27.207	84.60
90	-1.637	-1.638	33.864	27.253	80.26
95	-1.635	-1.637	33.947	27.320	73.83
100	-1.646	-1.648	33.979	27.347	71.30
110	-1.599	-1.602	34.071	27.420	64.32
120	-1.550	-1.553	34.127	27.465	60.08
130	-1.483	-1.486	34.166	27.494	57.26
140	-1.523	-1.526	34.205	27.527	54.09
150	-1.227	-1.231	34.265	27.566	50.46
160	-0.949	-0.953	34.307	27.590	48.34
170	-0.493	-0.499	34.388	27.637	44.11
180	0.495	0.488	34.542	27.709	37.76
190	0.973	0.964	34.629	27.749	34.23
200	1.354	1.344	34.718	27.795	30.17
210	1.668	1.657	34.782	27.824	27.66
220	1.866	1.854	34.828	27.846	25.75
230	1.914	1.902	34.858	27.866	23.94
240	1.964	1.951	34.874	27.874	23.21
250	1.942	1.928	34.889	27.889	21.90
260	1.907	1.893	34.902	27.902	20.70
270	1.810	1.796	34.907	27.913	19.59
280	1.685	1.671	34.903	27.920	18.94
290	1.607	1.592	34.907	27.929	18.07
300	1.542	1.526	34.909	27.935	17.47
310	1.386	1.371	34.906	27.945	16.49
320	1.334	1.318	34.903	27.946	16.37
330	1.264	1.248	34.905	27.952	15.77
340	1.206	1.189	34.905	27.957	15.30
350	1.158	1.140	34.905	27.960	14.96
360	1.126	1.108	34.905	27.962	14.76
370	1.076	1.058	34.907	27.967	14.29
380	1.042	1.023	34.909	27.971	13.93
390	1.030	1.011	34.909	27.972	13.87
400	1.006	0.987	34.912	27.976	13.49
410	0.996	0.976	34.913	27.977	13.38
420	0.976	0.956	34.915	27.981	13.04
430	0.937	0.917	34.916	27.984	12.74
440	0.911	0.890	34.916	27.985	12.56
450	0.886	0.865	34.918	27.989	12.26

B89.512					
depth	temp	theta	salnty	sig_th	delta
460	0.868	0.846	34.920	27.992	11.98
470	0.831	0.809	34.919	27.993	11.86
480	0.806	0.783	34.921	27.997	11.49
490	0.812	0.789	34.923	27.998	11.40
500	0.807	0.784	34.925	28.000	11.24
510	0.787	0.763	34.925	28.001	11.12
520	0.778	0.754	34.923	28.000	11.20
530	0.762	0.737	34.924	28.002	11.02
540	0.745	0.720	34.924	28.002	10.98
550	0.740	0.714	34.923	28.002	10.99
560	0.729	0.702	34.923	28.003	10.92
570	0.719	0.692	34.923	28.004	10.84
580	0.716	0.688	34.923	28.004	10.85
590	0.709	0.681	34.923	28.005	10.81
600	0.702	0.673	34.923	28.005	10.80
610	0.696	0.667	34.923	28.005	10.78
620	0.694	0.665	34.924	28.006	10.73
630	0.686	0.656	34.924	28.007	10.62
640	0.677	0.647	34.925	28.008	10.53
650	0.656	0.625	34.925	28.009	10.41
660	0.622	0.591	34.924	28.011	10.24
670	0.591	0.559	34.923	28.012	10.09
680	0.575	0.543	34.923	28.013	9.98
690	0.572	0.539	34.922	28.013	10.01
700	0.563	0.530	34.922	28.013	9.98
710	0.514	0.481	34.922	28.016	9.64
720	0.480	0.446	34.921	28.017	9.46
730	0.449	0.415	34.920	28.018	9.30
740	0.410	0.375	34.919	28.019	9.12
750	0.364	0.329	34.917	28.021	8.90
760	0.348	0.313	34.917	28.022	8.80
770	0.326	0.291	34.916	28.023	8.67
780	0.302	0.266	34.917	28.024	8.47
790	0.271	0.235	34.915	28.025	8.37
800	0.265	0.228	34.915	28.025	8.31
810	0.259	0.222	34.915	28.025	8.32
820	0.248	0.211	34.915	28.026	8.26

B89.513					
depth	temp	theta	salnty	sig_th	delta
5	-0.063	-0.063	31.299	25.122	283.15
10	-0.059	-0.059	31.298	25.121	283.21
15	-0.070	-0.070	31.299	25.122	283.06
20	-0.095	-0.095	31.302	25.126	282.67
25	-0.357	-0.358	31.345	25.171	278.38
30	-1.535	-1.536	32.508	26.149	185.29
35	-1.583	-1.584	32.809	26.395	161.93
40	-1.579	-1.579	33.027	26.571	145.14
45	-1.607	-1.608	33.244	26.748	128.34
50	-1.613	-1.614	33.421	26.892	114.66
55	-1.640	-1.641	33.548	26.996	104.78
60	-1.599	-1.600	33.644	27.073	97.48
65	-1.568	-1.570	33.703	27.120	92.95
70	-1.537	-1.538	33.759	27.165	88.68
75	-1.548	-1.550	33.835	27.227	82.81
80	-1.513	-1.515	33.902	27.281	77.72
85	-1.436	-1.438	33.968	27.332	72.86
90	-1.446	-1.448	34.014	27.369	69.29
95	-1.470	-1.472	34.069	27.415	64.91
100	-1.560	-1.562	34.112	27.452	61.33
110	-1.575	-1.577	34.159	27.491	57.61
120	-1.245	-1.248	34.225	27.534	53.61
130	-1.007	-1.011	34.289	27.577	49.59
140	-0.797	-0.801	34.350	27.618	45.76
150	-0.529	-0.534	34.434	27.675	40.47
160	-0.077	-0.083	34.529	27.731	35.43
170	0.503	0.496	34.622	27.773	31.72
180	0.908	0.900	34.698	27.809	28.50
190	1.406	1.397	34.776	27.838	26.07
200	1.523	1.513	34.815	27.861	24.00
210	1.704	1.693	34.848	27.874	22.95
220	1.803	1.791	34.876	27.889	21.66
230	1.713	1.701	34.889	27.906	20.00
240	1.631	1.619	34.898	27.920	18.73
250	1.500	1.487	34.895	27.927	17.99
260	1.292	1.279	34.889	27.937	16.92
270	1.179	1.166	34.891	27.946	16.01
280	1.110	1.096	34.890	27.951	15.58
290	1.047	1.034	34.887	27.953	15.38
300	1.015	1.001	34.888	27.955	15.14
310	1.022	1.007	34.889	27.956	15.10
320	1.004	0.989	34.890	27.958	14.96
330	0.962	0.947	34.890	27.961	14.67
340	0.963	0.947	34.896	27.966	14.23
350	0.946	0.929	34.898	27.968	14.01
360	0.941	0.924	34.901	27.971	13.76
370	0.920	0.903	34.903	27.974	13.48
380	0.895	0.878	34.904	27.976	13.24
390	0.880	0.862	34.904	27.978	13.11
400	0.873	0.854	34.905	27.979	13.04
410	0.867	0.847	34.905	27.979	13.00
420	0.848	0.829	34.907	27.982	12.78
430	0.838	0.817	34.908	27.984	12.62
440	0.833	0.812	34.907	27.983	12.66
450	0.832	0.811	34.907	27.984	12.67

B89.513					
depth	temp	theta	salnty	sig_th	delta
460	0.833	0.811	34.907	27.983	12.71
470	0.832	0.810	34.907	27.984	12.71
480	0.833	0.811	34.907	27.983	12.76
490	0.833	0.810	34.907	27.983	12.77
500	0.832	0.808	34.908	27.984	12.73
510	0.832	0.808	34.908	27.984	12.73
520	0.828	0.803	34.895	27.974	13.74
530	0.829	0.803	34.909	27.985	12.67
540	0.827	0.801	34.910	27.986	12.62
550	0.826	0.800	34.910	27.986	12.63
560	0.824	0.798	34.911	27.987	12.58
570	0.818	0.791	34.911	27.988	12.52
580	0.793	0.765	34.914	27.992	12.13

B89.514					
depth	temp	theta	salnty	sig_th	delta
5	-0.139	-0.139	31.238	25.076	287.56
10	-0.138	-0.139	31.236	25.074	287.69
15	-0.153	-0.153	31.268	25.100	285.14
20	-1.176	-1.176	33.215	26.712	131.96
25	-1.491	-1.492	33.663	27.086	96.48
30	-1.409	-1.409	33.800	27.195	86.14
35	-1.376	-1.377	33.934	27.302	75.95
40	-1.183	-1.184	34.029	27.373	69.27
45	-1.468	-1.469	34.115	27.452	61.68
50	-1.316	-1.317	34.141	27.469	60.13
55	-1.150	-1.151	34.177	27.492	57.93
60	-0.968	-0.970	34.198	27.503	56.92
65	-0.591	-0.593	34.288	27.560	51.54
70	-0.409	-0.411	34.332	27.587	48.99
75	-0.007	-0.010	34.383	27.608	47.08
80	0.431	0.428	34.484	27.666	41.72
85	0.604	0.600	34.532	27.694	39.09
90	1.017	1.013	34.596	27.719	36.83
95	1.541	1.537	34.681	27.752	33.93
100	1.441	1.436	34.719	27.789	30.38
110	1.744	1.738	34.770	27.808	28.74
120	1.658	1.652	34.794	27.834	26.31
130	1.494	1.488	34.799	27.849	24.82
140	1.811	1.804	34.846	27.864	23.60
150	2.147	2.139	34.900	27.881	22.21
160	2.161	2.152	34.921	27.897	20.79
170	2.094	2.085	34.930	27.909	19.62
180	1.881	1.871	34.925	27.922	18.35
190	1.667	1.657	34.916	27.931	17.46
200	1.666	1.656	34.926	27.939	16.71
210	1.634	1.624	34.924	27.940	16.69
220	1.515	1.504	34.930	27.954	15.33
230	1.339	1.328	34.923	27.961	14.58
240	1.260	1.248	34.917	27.961	14.55
250	1.169	1.157	34.913	27.965	14.19
260	1.083	1.071	34.909	27.968	13.89
270	1.094	1.081	34.914	27.971	13.60
280	1.027	1.014	34.914	27.976	13.15
290	0.969	0.956	34.915	27.980	12.75
300	0.911	0.897	34.915	27.984	12.37
310	0.873	0.858	34.915	27.987	12.06
320	0.832	0.818	34.913	27.987	11.99
330	0.821	0.806	34.919	27.993	11.50
340	0.769	0.753	34.919	27.997	11.10
350	0.846	0.830	34.925	27.997	11.19
360	0.785	0.769	34.925	28.000	10.85
370	0.863	0.846	34.932	28.001	10.88
380	0.805	0.787	34.932	28.005	10.48
390	0.781	0.763	34.934	28.008	10.19
400	0.733	0.714	34.932	28.009	10.02
410	0.687	0.668	34.930	28.011	9.85
420	0.679	0.660	34.931	28.013	9.69
430	0.662	0.642	34.931	28.013	9.63
440	0.600	0.580	34.930	28.016	9.30
450	0.570	0.549	34.930	28.018	9.09

B89.514					
depth	temp	theta	salnty	sig_th	delta
460	0.541	0.520	34.930	28.020	8.93
470	0.482	0.461	34.927	28.021	8.75
480	0.417	0.396	34.926	28.024	8.36
490	0.389	0.367	34.923	28.024	8.38
500	0.368	0.346	34.923	28.024	8.30
510	0.325	0.303	34.921	28.026	8.13
520	0.285	0.262	34.918	28.026	8.06
530	0.258	0.235	34.919	28.028	7.83
540	0.241	0.218	34.920	28.029	7.70
550	0.192	0.169	34.917	28.030	7.58
560	0.152	0.128	34.915	28.031	7.41
570	0.133	0.109	34.913	28.031	7.43
580	0.094	0.070	34.912	28.032	7.25
590	0.052	0.027	34.914	28.035	6.86
600	0.032	0.007	34.912	28.035	6.83
610	0.002	-0.024	34.912	28.036	6.67
620	-0.004	-0.029	34.912	28.037	6.64
630	-0.038	-0.065	34.912	28.038	6.40
640	-0.067	-0.093	34.912	28.040	6.21
650	-0.086	-0.113	34.910	28.039	6.24
660	-0.115	-0.142	34.910	28.041	6.04
670	-0.144	-0.171	34.910	28.042	5.85
680	-0.169	-0.196	34.909	28.043	5.69
690	-0.189	-0.217	34.910	28.045	5.51
700	-0.210	-0.239	34.909	28.045	5.42
710	-0.227	-0.256	34.909	28.046	5.28
720	-0.250	-0.279	34.908	28.047	5.20
730	-0.258	-0.288	34.908	28.047	5.15
740	-0.272	-0.302	34.909	28.048	5.00
750	-0.284	-0.314	34.908	28.048	4.98
760	-0.312	-0.343	34.908	28.050	4.74
770	-0.342	-0.373	34.907	28.050	4.63
780	-0.346	-0.378	34.907	28.051	4.56
790	-0.341	-0.373	34.907	28.051	4.59
800	-0.363	-0.395	34.909	28.053	4.34
810	-0.378	-0.410	34.908	28.053	4.29
820	-0.418	-0.451	34.909	28.056	3.89
830	-0.422	-0.455	34.907	28.054	4.05
840	-0.435	-0.469	34.907	28.055	3.93
850	-0.445	-0.479	34.906	28.054	3.94
860	-0.463	-0.498	34.905	28.055	3.84
870	-0.455	-0.490	34.906	28.055	3.81
880	-0.463	-0.498	34.907	28.056	3.71
890	-0.467	-0.503	34.906	28.056	3.72
900	-0.479	-0.515	34.906	28.056	3.64
910	-0.493	-0.530	34.905	28.056	3.56
920	-0.496	-0.533	34.906	28.057	3.46
930	-0.498	-0.536	34.906	28.057	3.48
940	-0.502	-0.540	34.905	28.057	3.45
950	-0.508	-0.546	34.907	28.058	3.29
960	-0.522	-0.561	34.906	28.058	3.23
970	-0.528	-0.568	34.907	28.059	3.14
980	-0.536	-0.575	34.906	28.059	3.09
990	-0.540	-0.580	34.907	28.060	3.02
1000	-0.554	-0.595	34.907	28.060	2.91

B89.514					
depth	temp	theta	salnty	sig_th	delta
1010	-0.560	-0.602	34.905	28.060	2.94
1020	-0.567	-0.609	34.906	28.061	2.82
1030	-0.570	-0.612	34.906	28.061	2.77
1040	-0.574	-0.616	34.905	28.060	2.81
1050	-0.583	-0.626	34.906	28.061	2.67
1060	-0.573	-0.617	34.905	28.060	2.78
1070	-0.578	-0.622	34.908	28.063	2.50
1080	-0.585	-0.630	34.907	28.063	2.50
1090	-0.594	-0.639	34.907	28.063	2.46
1100	-0.607	-0.652	34.909	28.065	2.20
1110	-0.613	-0.659	34.908	28.065	2.16
1120	-0.619	-0.665	34.908	28.064	2.17
1130	-0.629	-0.675	34.908	28.066	2.02
1140	-0.633	-0.680	34.909	28.066	1.94
1150	-0.622	-0.670	34.910	28.066	1.94
1160	-0.626	-0.675	34.910	28.067	1.86
1170	-0.624	-0.673	34.911	28.067	1.82
1180	-0.640	-0.689	34.910	28.068	1.71
1190	-0.639	-0.689	34.910	28.068	1.69
1200	-0.638	-0.688	34.911	28.069	1.61
1210	-0.637	-0.688	34.912	28.069	1.56
1220	-0.640	-0.692	34.914	28.071	1.38
1230	-0.604	-0.656	34.916	28.071	1.43
1240	-0.606	-0.658	34.917	28.072	1.35
1250	-0.608	-0.661	34.918	28.072	1.27
1260	-0.610	-0.664	34.918	28.073	1.20
1270	-0.616	-0.670	34.918	28.073	1.13
1280	-0.626	-0.680	34.918	28.073	1.09
1290	-0.632	-0.687	34.919	28.075	0.91
1300	-0.638	-0.693	34.918	28.074	0.91
1310	-0.642	-0.698	34.918	28.075	0.86
1320	-0.651	-0.707	34.918	28.075	0.76
1330	-0.649	-0.706	34.920	28.076	0.68
1340	-0.650	-0.708	34.919	28.076	0.70
1350	-0.654	-0.712	34.920	28.076	0.59
1360	-0.666	-0.724	34.919	28.076	0.52
1370	-0.675	-0.734	34.918	28.076	0.50
1380	-0.695	-0.754	34.919	28.077	0.29
1390	-0.699	-0.759	34.919	28.077	0.25
1400	-0.705	-0.765	34.918	28.077	0.23
1410	-0.718	-0.779	34.918	28.078	0.08
1420	-0.726	-0.787	34.918	28.078	0.01
1430	-0.727	-0.788	34.919	28.079	-0.04
1440	-0.729	-0.791	34.919	28.079	-0.09
1450	-0.740	-0.802	34.919	28.080	-0.22
1460	-0.750	-0.813	34.920	28.081	-0.39
1470	-0.758	-0.822	34.920	28.081	-0.46
1480	-0.767	-0.831	34.920	28.081	-0.55
1490	-0.786	-0.850	34.919	28.082	-0.71
1500	-0.798	-0.862	34.919	28.083	-0.82
1510	-0.800	-0.866	34.920	28.083	-0.88
1520	-0.814	-0.880	34.919	28.083	-1.00
1530	-0.821	-0.887	34.919	28.083	-1.06
1540	-0.842	-0.908	34.920	28.085	-1.28
1550	-0.896	-0.963	34.918	28.086	-1.63

B89.514					
depth	temp	theta	salnty	sig_th	delta
1560	-0.915	-0.981	34.918	28.086	-1.78
1570	-0.944	-1.011	34.917	28.086	-1.95
1580	-0.954	-1.021	34.916	28.087	-2.04
1590	-0.963	-1.031	34.914	28.085	-1.97
1600	-0.977	-1.045	34.914	28.086	-2.10
1610	-0.994	-1.062	34.913	28.086	-2.20
1620	-1.006	-1.075	34.913	28.086	-2.30

B89.515					
depth	temp	theta	salnty	sig_th	delta
5	0.720	0.720	30.724	24.623	330.65
10	0.723	0.723	30.726	24.624	330.51
15	0.729	0.728	30.743	24.638	329.19
20	1.601	1.600	33.501	26.800	123.82
25	1.961	1.960	34.212	27.344	72.32
30	1.024	1.022	34.375	27.541	53.55
35	0.977	0.975	34.447	27.602	47.79
40	1.187	1.185	34.549	27.671	41.34
45	1.673	1.671	34.661	27.725	36.24
50	1.384	1.382	34.673	27.756	33.32
55	1.197	1.195	34.669	27.766	32.36
60	1.603	1.600	34.731	27.787	30.48
65	1.652	1.649	34.777	27.820	27.38
70	1.666	1.663	34.799	27.837	25.83
75	1.773	1.769	34.846	27.867	23.05
80	2.103	2.099	34.856	27.849	24.82
85	2.138	2.134	34.878	27.863	23.49
90	2.046	2.042	34.881	27.873	22.53
95	1.922	1.917	34.878	27.880	21.88
100	1.817	1.811	34.884	27.894	20.61
110	2.149	2.143	34.926	27.901	20.06
120	1.740	1.734	34.912	27.922	18.00
130	1.585	1.579	34.905	27.928	17.43
140	1.450	1.443	34.902	27.936	16.66
150	1.321	1.314	34.900	27.943	15.96
160	1.357	1.349	34.911	27.950	15.44
170	1.344	1.336	34.918	27.956	14.85
180	1.212	1.203	34.914	27.963	14.21
190	1.108	1.099	34.911	27.967	13.74
200	1.048	1.038	34.912	27.972	13.29
210	1.047	1.037	34.914	27.974	13.15
220	0.981	0.971	34.915	27.979	12.61
230	0.939	0.928	34.917	27.984	12.19
240	0.899	0.888	34.917	27.987	11.94
250	0.910	0.899	34.922	27.989	11.72
260	0.879	0.868	34.923	27.992	11.45
270	0.836	0.824	34.924	27.996	11.07
280	0.881	0.868	34.929	27.997	11.06
290	0.878	0.865	34.934	28.002	10.62
300	0.811	0.797	34.931	28.004	10.42
310	0.771	0.757	34.933	28.007	10.05
320	0.742	0.727	34.933	28.010	9.83
330	0.682	0.667	34.931	28.012	9.59
340	0.629	0.614	34.931	28.015	9.28
350	0.588	0.572	34.928	28.015	9.21
360	0.539	0.523	34.927	28.017	8.99
370	0.450	0.434	34.922	28.019	8.79
380	0.454	0.438	34.922	28.019	8.78
390	0.464	0.447	34.924	28.019	8.77
400	0.401	0.383	34.922	28.021	8.52
410	0.342	0.325	34.919	28.023	8.34
420	0.305	0.287	34.917	28.024	8.22
430	0.240	0.222	34.914	28.025	8.04
440	0.229	0.210	34.915	28.026	7.90
450	0.199	0.181	34.915	28.027	7.74

B89.515					
depth	temp	theta	salnty	sig_th	delta
460	0.177	0.158	34.914	28.028	7.64
470	0.134	0.115	34.914	28.031	7.38
480	0.105	0.085	34.914	28.032	7.18
490	0.066	0.045	34.912	28.033	7.09
500	0.048	0.027	34.912	28.034	6.98
510	0.024	0.003	34.912	28.035	6.82
520	-0.011	-0.032	34.911	28.036	6.66
530	-0.037	-0.059	34.911	28.037	6.52
540	-0.065	-0.087	34.910	28.038	6.36
550	-0.096	-0.118	34.910	28.040	6.19
560	-0.113	-0.136	34.910	28.041	6.09
570	-0.140	-0.163	34.909	28.041	5.96
580	-0.179	-0.202	34.908	28.043	5.79
590	-0.206	-0.230	34.908	28.044	5.59
600	-0.234	-0.258	34.907	28.045	5.50
610	-0.249	-0.273	34.907	28.046	5.36
620	-0.281	-0.305	34.906	28.046	5.24
630	-0.308	-0.333	34.906	28.048	5.06
640	-0.277	-0.303	34.909	28.049	5.01
650	-0.304	-0.329	34.910	28.050	4.80
660	-0.321	-0.347	34.910	28.051	4.69
670	-0.347	-0.374	34.908	28.052	4.59
680	-0.372	-0.399	34.907	28.052	4.51
690	-0.391	-0.418	34.907	28.053	4.40
700	-0.411	-0.438	34.907	28.053	4.26
710	-0.427	-0.454	34.906	28.053	4.21
720	-0.437	-0.465	34.906	28.054	4.15
730	-0.444	-0.472	34.906	28.054	4.11
740	-0.455	-0.484	34.906	28.055	4.01
750	-0.462	-0.492	34.906	28.055	3.96
760	-0.473	-0.503	34.906	28.056	3.87
770	-0.478	-0.508	34.906	28.056	3.82
780	-0.487	-0.518	34.905	28.056	3.78
790	-0.493	-0.524	34.906	28.056	3.71
800	-0.512	-0.543	34.906	28.057	3.56
810	-0.522	-0.553	34.905	28.058	3.50
820	-0.529	-0.561	34.905	28.058	3.46
830	-0.536	-0.569	34.905	28.058	3.42
840	-0.545	-0.578	34.905	28.058	3.36
850	-0.549	-0.582	34.905	28.059	3.28
860	-0.552	-0.586	34.905	28.059	3.24
870	-0.552	-0.586	34.905	28.059	3.23
880	-0.559	-0.594	34.906	28.060	3.09
890	-0.563	-0.598	34.906	28.060	3.05
900	-0.574	-0.609	34.907	28.061	2.93
910	-0.579	-0.615	34.906	28.061	2.89
920	-0.583	-0.620	34.907	28.062	2.80
930	-0.573	-0.610	34.909	28.063	2.72
940	-0.579	-0.617	34.909	28.063	2.66
950	-0.575	-0.613	34.909	28.064	2.62
960	-0.565	-0.604	34.911	28.065	2.53
970	-0.557	-0.596	34.912	28.065	2.49
980	-0.565	-0.605	34.913	28.066	2.39
990	-0.563	-0.603	34.913	28.066	2.35
1000	-0.583	-0.623	34.914	28.068	2.17

B89.515					
depth	temp	theta	salnty	sig_th	delta
1010	-0.600	-0.640	34.913	28.068	2.08
1020	-0.598	-0.640	34.914	28.069	1.99
1030	-0.608	-0.650	34.913	28.069	1.96
1040	-0.635	-0.677	34.912	28.069	1.86
1050	-0.641	-0.683	34.911	28.068	1.86
1060	-0.656	-0.699	34.912	28.069	1.69
1070	-0.671	-0.714	34.911	28.069	1.66
1080	-0.674	-0.717	34.910	28.069	1.63
1090	-0.673	-0.717	34.911	28.069	1.58
1100	-0.660	-0.705	34.914	28.071	1.45
1110	-0.668	-0.713	34.913	28.071	1.44
1120	-0.666	-0.712	34.910	28.068	1.66
1130	-0.685	-0.731	34.916	28.074	1.06
1140	-0.695	-0.742	34.912	28.072	1.23
1150	-0.672	-0.720	34.916	28.074	1.08
1160	-0.694	-0.742	34.914	28.073	1.07
1170	-0.703	-0.751	34.914	28.073	0.97
1180	-0.708	-0.756	34.914	28.074	0.93
1190	-0.717	-0.766	34.915	28.075	0.76
1200	-0.738	-0.787	34.913	28.074	0.74
1210	-0.755	-0.804	34.913	28.075	0.62
1220	-0.754	-0.804	34.912	28.074	0.69
1230	-0.750	-0.801	34.914	28.075	0.54
1240	-0.761	-0.812	34.915	28.077	0.31
1250	-0.766	-0.817	34.913	28.076	0.41
1260	-0.769	-0.821	34.914	28.076	0.34
1270	-0.771	-0.823	34.914	28.076	0.29
1280	-0.775	-0.828	34.914	28.077	0.23
1290	-0.775	-0.828	34.914	28.076	0.23
1300	-0.782	-0.836	34.914	28.077	0.14
1310	-0.790	-0.844	34.915	28.078	-0.01
1320	-0.792	-0.847	34.915	28.078	-0.06
1330	-0.797	-0.852	34.915	28.078	-0.12
1340	-0.790	-0.846	34.916	28.079	-0.14
1350	-0.795	-0.851	34.915	28.079	-0.18
1360	-0.799	-0.856	34.916	28.080	-0.29
1370	-0.800	-0.857	34.916	28.080	-0.34
1380	-0.802	-0.860	34.917	28.080	-0.39
1390	-0.805	-0.864	34.916	28.080	-0.43
1400	-0.808	-0.867	34.917	28.081	-0.50
1410	-0.805	-0.865	34.917	28.081	-0.52
1420	-0.813	-0.873	34.917	28.081	-0.62
1430	-0.813	-0.874	34.917	28.081	-0.65
1440	-0.820	-0.881	34.917	28.081	-0.66
1450	-0.817	-0.879	34.917	28.082	-0.72
1460	-0.818	-0.880	34.918	28.082	-0.79
1470	-0.817	-0.880	34.918	28.082	-0.78
1480	-0.822	-0.885	34.917	28.082	-0.80
1490	-0.832	-0.896	34.918	28.082	-0.94
1500	-0.838	-0.902	34.917	28.082	-0.96
1510	-0.838	-0.903	34.917	28.082	-1.00
1520	-0.832	-0.897	34.918	28.083	-1.05
1530	-0.837	-0.903	34.918	28.083	-1.12
1540	-0.842	-0.908	34.919	28.084	-1.19
1550	-0.849	-0.916	34.919	28.084	-1.31

B89.515					
depth	temp	theta	salnty	sig_th	delta
1560	-0.849	-0.917	34.919	28.084	-1.33
1570	-0.854	-0.922	34.919	28.085	-1.40
1580	-0.860	-0.928	34.919	28.085	-1.50
1590	-0.865	-0.934	34.918	28.085	-1.50
1600	-0.872	-0.941	34.919	28.085	-1.60
1610	-0.888	-0.957	34.918	28.085	-1.68
1620	-0.896	-0.966	34.918	28.086	-1.79
1630	-0.909	-0.979	34.918	28.086	-1.93
1640	-0.919	-0.990	34.918	28.086	-2.00
1650	-0.937	-1.008	34.917	28.087	-2.12
1660	-0.949	-1.021	34.915	28.086	-2.13
1670	-0.963	-1.035	34.916	28.087	-2.31
1680	-0.979	-1.052	34.915	28.087	-2.40
1690	-0.985	-1.058	34.914	28.086	-2.39
1700	-1.006	-1.079	34.913	28.086	-2.52
1710	-1.023	-1.096	34.912	28.086	-2.61
1720	-1.033	-1.107	34.911	28.085	-2.63
1730	-1.047	-1.121	34.909	28.085	-2.69
1740	-1.049	-1.124	34.909	28.084	-2.68

B89.516					
depth	temp	theta	salnty	sig_th	delta
5	1.116	1.116	30.978	24.805	313.28
10	1.118	1.118	30.975	24.803	313.48
15	0.909	0.909	32.343	25.914	207.79
20	0.847	0.846	33.800	27.090	96.24
25	0.832	0.831	34.199	27.412	65.72
30	1.109	1.107	34.379	27.539	53.76
35	1.096	1.095	34.525	27.658	42.56
40	1.003	1.001	34.606	27.728	35.87
45	-0.110	-0.112	34.600	27.790	29.95
50	0.040	0.038	34.608	27.788	30.11
55	0.432	0.430	34.657	27.805	28.55
60	0.459	0.457	34.681	27.823	26.85
65	0.633	0.630	34.721	27.845	24.85
70	0.802	0.799	34.762	27.868	22.73
75	0.703	0.700	34.758	27.871	22.44
80	0.723	0.720	34.774	27.882	21.39
85	0.731	0.728	34.782	27.888	20.86
90	0.748	0.745	34.795	27.897	19.95
95	0.752	0.748	34.805	27.905	19.21
100	0.931	0.926	34.828	27.912	18.61
110	0.978	0.973	34.851	27.928	17.17
120	1.003	0.997	34.865	27.937	16.30
130	1.057	1.051	34.885	27.950	15.18
140	1.072	1.065	34.890	27.953	14.96
150	0.963	0.956	34.897	27.965	13.73
160	0.924	0.917	34.900	27.971	13.21
170	0.916	0.909	34.902	27.973	13.04
180	0.856	0.848	34.903	27.977	12.62
190	0.856	0.848	34.902	27.977	12.67
200	0.802	0.794	34.907	27.984	11.98
210	0.802	0.792	34.910	27.987	11.79
220	0.762	0.753	34.912	27.991	11.37
230	0.766	0.755	34.917	27.995	11.03
240	0.742	0.731	34.918	27.997	10.86
250	0.725	0.714	34.919	27.999	10.62
260	0.724	0.712	34.923	28.002	10.40
270	0.724	0.712	34.923	28.002	10.40
280	0.730	0.717	34.924	28.003	10.39
290	0.720	0.707	34.928	28.007	10.02
300	0.676	0.663	34.928	28.009	9.77
310	0.665	0.651	34.927	28.010	9.73
320	0.600	0.586	34.929	28.015	9.16
330	0.565	0.551	34.926	28.015	9.18
340	0.522	0.507	34.926	28.017	8.93
350	0.471	0.456	34.926	28.020	8.61
360	0.412	0.396	34.920	28.019	8.68
370	0.336	0.320	34.920	28.024	8.17
380	0.309	0.293	34.920	28.025	8.01
390	0.261	0.245	34.917	28.026	7.90
400	0.164	0.148	34.917	28.031	7.33
410	0.132	0.115	34.913	28.030	7.41
420	0.102	0.085	34.914	28.032	7.20
430	0.048	0.031	34.913	28.034	6.90
440	0.004	-0.013	34.910	28.035	6.81
450	-0.017	-0.035	34.910	28.036	6.70

B89.516					
depth	temp	theta	salnty	sig_th	delta
460	-0.024	-0.042	34.910	28.036	6.68
470	-0.044	-0.063	34.910	28.037	6.51
480	-0.089	-0.108	34.912	28.041	6.14
490	-0.112	-0.131	34.908	28.039	6.25
500	-0.127	-0.147	34.908	28.040	6.12
510	-0.153	-0.173	34.909	28.042	5.90
520	-0.175	-0.195	34.909	28.043	5.77
530	-0.193	-0.214	34.908	28.043	5.72
540	-0.196	-0.217	34.908	28.043	5.70
550	-0.202	-0.224	34.908	28.044	5.68
560	-0.243	-0.265	34.910	28.047	5.26
570	-0.268	-0.290	34.909	28.048	5.14
580	-0.295	-0.318	34.909	28.049	4.99
590	-0.305	-0.328	34.907	28.049	5.01
600	-0.324	-0.348	34.906	28.049	4.96
610	-0.336	-0.360	34.907	28.050	4.85
620	-0.338	-0.362	34.907	28.050	4.83
630	-0.339	-0.364	34.907	28.050	4.81
640	-0.348	-0.374	34.907	28.051	4.70
650	-0.354	-0.379	34.907	28.051	4.68
660	-0.357	-0.383	34.907	28.051	4.68
670	-0.363	-0.389	34.907	28.051	4.62
680	-0.365	-0.392	34.907	28.051	4.58
690	-0.371	-0.398	34.907	28.052	4.52
700	-0.382	-0.410	34.906	28.052	4.49
710	-0.410	-0.438	34.908	28.054	4.19
720	-0.414	-0.442	34.907	28.053	4.24
730	-0.424	-0.453	34.907	28.054	4.16
740	-0.431	-0.460	34.906	28.054	4.15
750	-0.441	-0.470	34.907	28.055	4.01
760	-0.442	-0.472	34.906	28.055	4.03
770	-0.443	-0.473	34.907	28.055	3.99
780	-0.445	-0.476	34.906	28.055	3.99
790	-0.446	-0.478	34.907	28.055	3.93
800	-0.456	-0.488	34.908	28.057	3.77
810	-0.475	-0.507	34.907	28.057	3.68
820	-0.477	-0.509	34.907	28.057	3.63
830	-0.500	-0.533	34.908	28.059	3.39
840	-0.511	-0.544	34.908	28.059	3.34
850	-0.516	-0.550	34.908	28.059	3.31
860	-0.520	-0.554	34.908	28.060	3.27
870	-0.528	-0.563	34.908	28.060	3.18
880	-0.547	-0.582	34.909	28.062	2.95
890	-0.553	-0.588	34.909	28.062	2.93
900	-0.560	-0.596	34.908	28.062	2.88
910	-0.560	-0.597	34.908	28.062	2.87
920	-0.566	-0.602	34.908	28.062	2.86
930	-0.581	-0.618	34.909	28.063	2.68
940	-0.585	-0.622	34.909	28.063	2.62
950	-0.590	-0.628	34.909	28.064	2.57
960	-0.596	-0.635	34.909	28.064	2.50
970	-0.602	-0.640	34.909	28.065	2.43
980	-0.609	-0.648	34.910	28.065	2.32
990	-0.613	-0.653	34.909	28.065	2.34
1000	-0.618	-0.658	34.910	28.066	2.23

B89.516					
depth	temp	theta	salnty	sig_th	delta
1010	-0.629	-0.670	34.910	28.067	2.11
1020	-0.634	-0.675	34.910	28.067	2.04
1030	-0.649	-0.691	34.911	28.068	1.86
1040	-0.650	-0.692	34.910	28.068	1.87
1050	-0.650	-0.692	34.910	28.068	1.89
1060	-0.670	-0.712	34.911	28.070	1.63
1070	-0.714	-0.757	34.913	28.073	1.17
1080	-0.726	-0.770	34.913	28.073	1.07
1090	-0.727	-0.771	34.913	28.073	1.07
1100	-0.742	-0.786	34.912	28.073	0.99
1110	-0.744	-0.789	34.913	28.074	0.87
1120	-0.741	-0.786	34.913	28.074	0.89
1130	-0.755	-0.801	34.915	28.076	0.63
1140	-0.764	-0.810	34.914	28.076	0.57
1150	-0.770	-0.816	34.914	28.076	0.53
1160	-0.777	-0.823	34.915	28.077	0.42
1170	-0.780	-0.827	34.915	28.077	0.38
1180	-0.783	-0.831	34.914	28.077	0.40
1190	-0.791	-0.839	34.915	28.078	0.22
1200	-0.810	-0.858	34.915	28.079	0.03
1210	-0.824	-0.873	34.915	28.080	-0.09

B89.517					
depth	temp	theta	salnty	sig_th	delta
5	1.521	1.521	31.201	24.961	298.50
10	1.523	1.523	31.200	24.959	298.61
15	1.511	1.510	31.248	24.999	294.86
20	0.473	0.472	33.103	26.550	147.39
25	0.440	0.439	33.851	27.155	90.09
30	0.333	0.332	34.189	27.434	63.66
35	0.053	0.052	34.383	27.605	47.40
40	0.472	0.471	34.481	27.661	42.13
45	0.538	0.536	34.543	27.707	37.81
50	0.624	0.622	34.583	27.734	35.27
55	0.789	0.787	34.632	27.763	32.55
60	0.595	0.592	34.676	27.811	28.06
65	0.710	0.707	34.725	27.843	25.00
70	0.792	0.789	34.739	27.849	24.45
75	0.826	0.822	34.762	27.866	22.88
80	1.003	0.999	34.780	27.868	22.73
85	1.211	1.207	34.813	27.881	21.59
90	1.271	1.266	34.834	27.894	20.42
95	1.254	1.250	34.840	27.900	19.84
100	1.214	1.209	34.845	27.906	19.25
110	1.225	1.220	34.865	27.922	17.80
120	1.214	1.208	34.885	27.939	16.28
130	1.138	1.132	34.891	27.949	15.30
140	1.048	1.041	34.900	27.962	14.06
150	0.999	0.992	34.906	27.970	13.27
160	0.892	0.885	34.906	27.978	12.57
170	0.910	0.902	34.911	27.980	12.35
180	0.873	0.865	34.914	27.985	11.89
190	0.841	0.833	34.916	27.989	11.58
200	0.777	0.768	34.916	27.993	11.14
210	0.803	0.794	34.920	27.995	11.04
220	0.762	0.752	34.921	27.998	10.69
230	0.721	0.711	34.922	28.002	10.35
240	0.713	0.702	34.925	28.005	10.11
250	0.674	0.663	34.927	28.009	9.69
260	0.638	0.627	34.928	28.012	9.43
270	0.582	0.571	34.928	28.015	9.09
280	0.519	0.507	34.924	28.016	8.98
290	0.471	0.459	34.923	28.018	8.73
300	0.343	0.330	34.922	28.025	8.01
310	0.305	0.292	34.920	28.026	7.93
320	0.266	0.253	34.919	28.027	7.75
330	0.183	0.169	34.918	28.031	7.32
340	0.143	0.130	34.915	28.031	7.31
350	0.067	0.052	34.915	28.035	6.87
360	0.010	-0.004	34.913	28.036	6.65
370	-0.017	-0.031	34.913	28.038	6.50
380	-0.047	-0.062	34.912	28.038	6.40
390	-0.083	-0.098	34.911	28.040	6.23
400	-0.111	-0.127	34.910	28.040	6.14
410	-0.123	-0.139	34.909	28.040	6.14
420	-0.142	-0.159	34.909	28.042	5.99
430	-0.179	-0.196	34.909	28.043	5.78
440	-0.232	-0.248	34.908	28.045	5.56
450	-0.237	-0.254	34.907	28.044	5.62

B89.517					
depth	temp	theta	salnty	sig_th	delta
460	-0.247	-0.265	34.907	28.045	5.55
470	-0.268	-0.286	34.908	28.047	5.28
480	-0.275	-0.294	34.910	28.049	5.10
490	-0.296	-0.315	34.913	28.052	4.76
500	-0.325	-0.344	34.907	28.049	4.98
510	-0.334	-0.354	34.907	28.049	4.96
520	-0.344	-0.364	34.909	28.051	4.75
530	-0.348	-0.368	34.906	28.050	4.89
540	-0.351	-0.372	34.905	28.048	4.99
550	-0.371	-0.392	34.908	28.052	4.62
560	-0.382	-0.403	34.907	28.052	4.62
570	-0.385	-0.407	34.906	28.051	4.65
580	-0.402	-0.425	34.909	28.054	4.33
590	-0.403	-0.425	34.908	28.053	4.40
600	-0.445	-0.468	34.913	28.060	3.72
610	-0.469	-0.492	34.907	28.056	4.00
620	-0.482	-0.506	34.910	28.059	3.70
630	-0.508	-0.532	34.907	28.058	3.71

B89.518					
depth	temp	theta	salnty	sig_th	delta
5	1.315	1.315	30.829	24.675	325.75
10	1.318	1.317	30.828	24.674	325.79
15	1.318	1.317	30.828	24.674	325.77
20	0.061	0.060	33.784	27.122	93.22
25	-0.587	-0.588	34.226	27.509	56.48
30	-0.500	-0.501	34.262	27.534	54.08
35	0.111	0.109	34.397	27.614	46.59
40	0.457	0.455	34.508	27.684	40.00
45	0.738	0.736	34.569	27.716	37.02
50	0.829	0.827	34.628	27.758	33.06
55	1.151	1.148	34.683	27.780	31.00
60	1.325	1.322	34.729	27.806	28.65
65	1.456	1.453	34.761	27.822	27.16
70	1.557	1.554	34.788	27.837	25.82
75	1.627	1.623	34.806	27.846	25.00
80	1.631	1.627	34.817	27.854	24.25
85	1.686	1.681	34.845	27.872	22.56
90	1.680	1.676	34.852	27.879	21.95
95	1.694	1.689	34.862	27.885	21.36
100	1.707	1.702	34.866	27.888	21.15
110	1.595	1.590	34.881	27.908	19.22
120	1.491	1.485	34.886	27.920	18.11
130	1.385	1.379	34.887	27.928	17.33
140	1.296	1.290	34.891	27.938	16.44
150	1.279	1.272	34.895	27.943	16.00
160	1.215	1.207	34.900	27.951	15.23
170	1.136	1.128	34.906	27.961	14.27
180	1.086	1.077	34.907	27.966	13.86
190	1.029	1.020	34.909	27.971	13.32
200	0.987	0.978	34.911	27.975	12.96
210	0.940	0.930	34.914	27.981	12.39
220	0.929	0.919	34.915	27.982	12.31
230	0.896	0.885	34.915	27.985	12.06
240	0.826	0.815	34.916	27.990	11.55
250	0.826	0.815	34.917	27.991	11.50
260	0.815	0.804	34.921	27.995	11.16
270	0.802	0.789	34.923	27.997	10.92
280	0.787	0.775	34.925	28.000	10.70
290	0.743	0.730	34.926	28.004	10.31
300	0.708	0.695	34.926	28.006	10.11
310	0.646	0.632	34.925	28.009	9.80
320	0.618	0.604	34.925	28.011	9.61
330	0.587	0.572	34.925	28.013	9.42
340	0.556	0.541	34.926	28.015	9.16
350	0.544	0.528	34.925	28.015	9.15
360	0.496	0.481	34.924	28.017	8.94
370	0.475	0.458	34.924	28.019	8.82
380	0.433	0.416	34.922	28.020	8.64
390	0.415	0.398	34.922	28.021	8.59
400	0.364	0.347	34.921	28.023	8.29
410	0.329	0.311	34.921	28.025	8.11
420	0.288	0.270	34.920	28.026	7.93
430	0.261	0.243	34.918	28.027	7.87
440	0.211	0.192	34.918	28.029	7.57
450	0.179	0.160	34.917	28.030	7.46

B89.518					
depth	temp	theta	salnty	sig_th	delta
460	0.159	0.140	34.916	28.031	7.38
470	0.134	0.114	34.916	28.032	7.24
480	0.105	0.085	34.914	28.033	7.15
490	0.061	0.040	34.913	28.034	6.98
500	0.027	0.007	34.912	28.035	6.81
510	-0.029	-0.050	34.911	28.037	6.58
520	-0.074	-0.095	34.909	28.038	6.39
530	-0.094	-0.115	34.909	28.039	6.27
540	-0.116	-0.138	34.913	28.044	5.81
550	-0.135	-0.157	34.914	28.045	5.65
560	-0.162	-0.185	34.912	28.045	5.57
570	-0.193	-0.215	34.911	28.045	5.50
580	-0.226	-0.249	34.909	28.046	5.42
590	-0.237	-0.261	34.908	28.046	5.37
600	-0.262	-0.286	34.908	28.047	5.26
610	-0.269	-0.294	34.914	28.052	4.70
620	-0.282	-0.307	34.909	28.048	5.05
630	-0.311	-0.336	34.908	28.049	4.89
640	-0.308	-0.333	34.907	28.049	4.96
650	-0.319	-0.345	34.909	28.051	4.75
660	-0.329	-0.355	34.909	28.051	4.68
670	-0.347	-0.373	34.909	28.052	4.54
680	-0.369	-0.396	34.912	28.055	4.19
690	-0.393	-0.420	34.907	28.053	4.36
700	-0.398	-0.425	34.910	28.055	4.10
710	-0.409	-0.436	34.908	28.055	4.16
720	-0.421	-0.449	34.911	28.057	3.88
730	-0.441	-0.470	34.910	28.057	3.83
740	-0.454	-0.482	34.908	28.056	3.88
750	-0.459	-0.489	34.907	28.056	3.86
760	-0.467	-0.497	34.909	28.058	3.67
770	-0.478	-0.509	34.909	28.058	3.61
780	-0.488	-0.519	34.909	28.059	3.49
790	-0.499	-0.531	34.908	28.058	3.52
800	-0.501	-0.533	34.908	28.059	3.48
810	-0.517	-0.549	34.907	28.059	3.41
820	-0.523	-0.555	34.908	28.060	3.31
830	-0.526	-0.559	34.907	28.059	3.30
840	-0.530	-0.563	34.908	28.060	3.19
850	-0.537	-0.571	34.909	28.061	3.09
860	-0.541	-0.575	34.908	28.061	3.08
870	-0.546	-0.581	34.909	28.062	3.00
880	-0.554	-0.588	34.909	28.062	2.93
890	-0.562	-0.597	34.908	28.062	2.88
900	-0.584	-0.620	34.911	28.065	2.56
910	-0.572	-0.608	34.909	28.063	2.74
920	-0.599	-0.636	34.912	28.067	2.31
930	-0.598	-0.635	34.908	28.063	2.62
940	-0.600	-0.637	34.909	28.064	2.50
950	-0.605	-0.643	34.910	28.066	2.36
960	-0.620	-0.658	34.910	28.066	2.26
970	-0.624	-0.663	34.911	28.067	2.14
980	-0.633	-0.672	34.912	28.068	2.00
990	-0.647	-0.687	34.911	28.068	1.95
1000	-0.662	-0.702	34.911	28.069	1.80

B89.518					
depth	temp	theta	salnty	sig_th	delta
1010	-0.676	-0.716	34.911	28.069	1.74
1020	-0.670	-0.710	34.915	28.072	1.42
1030	-0.667	-0.708	34.913	28.071	1.55
1040	-0.685	-0.726	34.914	28.072	1.38
1050	-0.690	-0.732	34.912	28.071	1.46
1060	-0.707	-0.749	34.912	28.072	1.31
1070	-0.714	-0.756	34.913	28.073	1.19
1080	-0.714	-0.757	34.912	28.072	1.23
1090	-0.703	-0.747	34.912	28.072	1.27
1100	-0.703	-0.747	34.914	28.073	1.13
1110	-0.715	-0.759	34.915	28.075	0.94
1120	-0.720	-0.765	34.915	28.074	0.91
1130	-0.723	-0.769	34.915	28.075	0.88
1140	-0.725	-0.771	34.914	28.074	0.90
1150	-0.729	-0.776	34.913	28.074	0.89
1160	-0.741	-0.788	34.912	28.074	0.84
1170	-0.748	-0.795	34.913	28.075	0.70
1180	-0.751	-0.799	34.914	28.076	0.61
1190	-0.752	-0.801	34.914	28.076	0.57
1200	-0.751	-0.800	34.915	28.076	0.53
1210	-0.755	-0.805	34.914	28.076	0.49
1220	-0.758	-0.808	34.916	28.077	0.36
1230	-0.764	-0.814	34.916	28.077	0.30
1240	-0.767	-0.818	34.916	28.078	0.24
1250	-0.768	-0.819	34.916	28.078	0.19
1260	-0.769	-0.821	34.916	28.078	0.15
1270	-0.775	-0.828	34.915	28.078	0.14
1280	-0.785	-0.837	34.916	28.079	0.02
1290	-0.791	-0.844	34.915	28.078	-0.01
1300	-0.792	-0.846	34.916	28.079	-0.12
1310	-0.794	-0.848	34.916	28.080	-0.16
1320	-0.800	-0.855	34.916	28.079	-0.17
1330	-0.805	-0.860	34.916	28.080	-0.29
1340	-0.806	-0.862	34.916	28.080	-0.29
1350	-0.810	-0.866	34.916	28.080	-0.33
1360	-0.815	-0.871	34.917	28.081	-0.45
1370	-0.819	-0.876	34.917	28.081	-0.51
1380	-0.824	-0.882	34.917	28.081	-0.57
1390	-0.829	-0.888	34.917	28.081	-0.63
1400	-0.833	-0.891	34.916	28.081	-0.66
1410	-0.839	-0.898	34.917	28.082	-0.76
1420	-0.841	-0.901	34.916	28.082	-0.76
1430	-0.845	-0.905	34.917	28.082	-0.84
1440	-0.850	-0.911	34.916	28.082	-0.87
1450	-0.854	-0.915	34.916	28.082	-0.91
1460	-0.858	-0.919	34.917	28.083	-1.00
1470	-0.860	-0.922	34.916	28.082	-1.00
1480	-0.865	-0.928	34.916	28.083	-1.08
1490	-0.871	-0.934	34.916	28.083	-1.13
1500	-0.877	-0.941	34.916	28.083	-1.24
1510	-0.882	-0.946	34.917	28.084	-1.32
1520	-0.885	-0.950	34.916	28.084	-1.33
1530	-0.889	-0.954	34.916	28.084	-1.40
1540	-0.894	-0.959	34.916	28.084	-1.46
1550	-0.896	-0.963	34.916	28.084	-1.47

B89.518					
depth	temp	theta	salnty	sig_th	delta
1560	-0.900	-0.966	34.916	28.084	-1.52
1570	-0.901	-0.969	34.916	28.084	-1.56
1580	-0.903	-0.971	34.915	28.084	-1.56
1590	-0.908	-0.976	34.916	28.084	-1.66
1600	-0.910	-0.979	34.916	28.084	-1.67
1610	-0.913	-0.982	34.916	28.085	-1.76
1620	-0.917	-0.987	34.916	28.085	-1.80
1630	-0.920	-0.990	34.916	28.085	-1.86
1640	-0.924	-0.995	34.915	28.085	-1.87
1650	-0.927	-0.999	34.916	28.085	-1.97
1660	-0.929	-1.002	34.915	28.085	-1.95
1670	-0.932	-1.004	34.915	28.085	-1.98
1680	-0.933	-1.006	34.915	28.085	-2.02
1690	-0.936	-1.010	34.916	28.086	-2.11
1700	-0.940	-1.014	34.915	28.085	-2.14
1710	-0.945	-1.020	34.915	28.086	-2.22
1720	-0.946	-1.021	34.915	28.085	-2.19
1730	-0.949	-1.025	34.915	28.086	-2.27
1740	-0.951	-1.028	34.915	28.086	-2.31
1750	-0.954	-1.031	34.915	28.086	-2.37
1760	-0.957	-1.035	34.915	28.086	-2.43
1770	-0.959	-1.037	34.914	28.085	-2.39
1780	-0.964	-1.042	34.914	28.086	-2.47
1790	-0.965	-1.044	34.914	28.086	-2.49
1800	-0.967	-1.047	34.914	28.086	-2.54
1810	-0.970	-1.051	34.914	28.086	-2.57
1820	-0.977	-1.058	34.914	28.086	-2.63
1830	-0.978	-1.059	34.913	28.086	-2.64
1840	-0.981	-1.063	34.914	28.086	-2.73
1850	-0.987	-1.069	34.913	28.086	-2.78
1860	-0.990	-1.073	34.912	28.085	-2.76
1870	-0.994	-1.077	34.913	28.086	-2.85
1880	-0.993	-1.077	34.913	28.086	-2.86
1890	-0.990	-1.075	34.912	28.086	-2.84
1900	-0.996	-1.081	34.913	28.086	-2.96
1910	-0.994	-1.080	34.913	28.086	-2.99
1920	-0.999	-1.086	34.912	28.086	-2.99
1930	-1.000	-1.088	34.913	28.086	-3.06
1940	-1.006	-1.094	34.912	28.086	-3.10
1950	-1.016	-1.105	34.912	28.086	-3.17
1960	-1.019	-1.108	34.911	28.086	-3.17
1970	-1.023	-1.112	34.911	28.086	-3.23
1980	-1.027	-1.117	34.911	28.086	-3.26
1990	-1.030	-1.120	34.910	28.085	-3.30
2000	-1.033	-1.124	34.910	28.085	-3.34
2010	-1.036	-1.128	34.910	28.085	-3.37
2020	-1.039	-1.131	34.909	28.085	-3.39
2030	-1.042	-1.135	34.909	28.085	-3.44
2040	-1.044	-1.138	34.909	28.085	-3.46
2050	-1.048	-1.142	34.908	28.085	-3.48
2060	-1.049	-1.143	34.908	28.084	-3.48
2070	-1.051	-1.146	34.908	28.085	-3.55
2080	-1.052	-1.148	34.908	28.085	-3.56
2090	-1.055	-1.151	34.908	28.085	-3.61
2100	-1.057	-1.154	34.907	28.084	-3.63
2110	-1.058	-1.156	34.907	28.084	-3.66
2120	-1.061	-1.160	34.907	28.084	-3.69

B89.519					
depth	temp	theta	salnty	sig_th	delta
5	1.954	1.954	31.333	25.038	291.14
10	2.048	2.048	31.382	25.071	288.05
15	2.481	2.480	31.737	25.323	264.08
20	2.558	2.557	32.580	25.990	200.67
25	0.236	0.235	33.755	27.089	96.34
30	-0.135	-0.136	34.086	27.376	69.14
35	-0.260	-0.261	34.249	27.513	56.11
40	-0.140	-0.142	34.383	27.615	46.45
45	0.013	0.012	34.440	27.654	42.80
50	0.179	0.177	34.488	27.683	40.03
55	0.896	0.894	34.579	27.714	37.27
60	0.619	0.616	34.634	27.776	31.35
65	0.825	0.822	34.674	27.795	29.60
70	0.905	0.902	34.708	27.817	27.54
75	1.189	1.185	34.756	27.837	25.71
80	1.017	1.013	34.761	27.852	24.23
85	1.458	1.454	34.795	27.849	24.67
90	1.437	1.433	34.832	27.880	21.74
95	1.412	1.407	34.839	27.888	21.00
100	1.429	1.424	34.858	27.902	19.71
110	1.453	1.447	34.871	27.911	18.92
120	1.216	1.210	34.867	27.924	17.61
130	1.152	1.146	34.873	27.933	16.76
140	1.146	1.140	34.883	27.942	15.99
150	1.080	1.073	34.889	27.951	15.14
160	1.047	1.040	34.895	27.959	14.44
170	1.048	1.040	34.901	27.964	14.01
180	0.941	0.932	34.900	27.970	13.37
190	0.931	0.923	34.904	27.974	13.04
200	0.898	0.889	34.906	27.977	12.73
210	0.887	0.878	34.910	27.981	12.35
220	0.829	0.819	34.912	27.987	11.85
230	0.824	0.813	34.917	27.991	11.42
240	0.778	0.767	34.920	27.997	10.91
250	0.764	0.753	34.922	27.999	10.72
260	0.694	0.683	34.921	28.002	10.35
270	0.665	0.653	34.921	28.004	10.18
280	0.659	0.647	34.923	28.006	9.98
290	0.656	0.643	34.925	28.008	9.81
300	0.618	0.604	34.928	28.013	9.37
310	0.566	0.552	34.924	28.013	9.33
320	0.564	0.550	34.926	28.015	9.17
330	0.538	0.524	34.926	28.017	8.99
340	0.503	0.489	34.926	28.019	8.80
350	0.415	0.400	34.922	28.021	8.50
360	0.371	0.356	34.921	28.023	8.31
370	0.308	0.292	34.919	28.025	8.08
380	0.271	0.255	34.918	28.026	7.91
390	0.237	0.221	34.917	28.027	7.77
400	0.200	0.183	34.915	28.028	7.67
410	0.173	0.156	34.915	28.029	7.50
420	0.134	0.117	34.914	28.031	7.33
430	0.114	0.096	34.913	28.031	7.28
440	0.068	0.050	34.913	28.034	6.99
450	0.045	0.027	34.913	28.035	6.87

B89.519					
depth	temp	theta	salnty	sig_th	delta
460	0.003	-0.015	34.912	28.036	6.69
470	-0.018	-0.036	34.911	28.037	6.61
480	-0.065	-0.085	34.910	28.038	6.37
490	-0.135	-0.154	34.908	28.040	6.11
500	-0.169	-0.189	34.906	28.041	6.02
510	-0.198	-0.218	34.906	28.042	5.85
520	-0.216	-0.237	34.906	28.043	5.75
530	-0.250	-0.270	34.905	28.043	5.62
540	-0.246	-0.267	34.906	28.044	5.52
550	-0.295	-0.317	34.905	28.046	5.30
560	-0.289	-0.311	34.906	28.046	5.29
570	-0.313	-0.335	34.906	28.048	5.11
580	-0.318	-0.340	34.906	28.048	5.04
590	-0.320	-0.343	34.907	28.049	4.92
600	-0.327	-0.350	34.907	28.049	4.91
610	-0.340	-0.363	34.908	28.051	4.73
620	-0.348	-0.373	34.908	28.051	4.69
630	-0.356	-0.380	34.908	28.052	4.60
640	-0.361	-0.386	34.908	28.052	4.58
650	-0.370	-0.396	34.908	28.052	4.49
660	-0.382	-0.408	34.908	28.053	4.42
670	-0.395	-0.422	34.908	28.053	4.34
680	-0.406	-0.433	34.907	28.053	4.30
690	-0.427	-0.454	34.907	28.054	4.20
700	-0.441	-0.468	34.906	28.054	4.15
710	-0.460	-0.487	34.906	28.055	4.03
720	-0.465	-0.493	34.906	28.055	3.98
730	-0.487	-0.516	34.905	28.056	3.86
740	-0.495	-0.523	34.905	28.056	3.82
750	-0.499	-0.528	34.905	28.056	3.76
760	-0.522	-0.551	34.904	28.056	3.69
770	-0.533	-0.563	34.904	28.057	3.57
780	-0.541	-0.571	34.904	28.058	3.50
790	-0.549	-0.580	34.905	28.059	3.38
800	-0.558	-0.590	34.905	28.059	3.32
810	-0.570	-0.601	34.905	28.060	3.20
820	-0.579	-0.611	34.905	28.060	3.12
830	-0.590	-0.623	34.906	28.061	3.00
840	-0.591	-0.624	34.905	28.061	3.00
850	-0.591	-0.624	34.906	28.061	2.93
860	-0.596	-0.630	34.907	28.062	2.83
870	-0.600	-0.634	34.907	28.062	2.79
880	-0.615	-0.649	34.907	28.064	2.63
890	-0.623	-0.657	34.907	28.064	2.58
900	-0.626	-0.661	34.907	28.064	2.52
910	-0.623	-0.659	34.909	28.065	2.43
920	-0.632	-0.668	34.909	28.066	2.33
930	-0.639	-0.675	34.909	28.066	2.26
940	-0.659	-0.696	34.908	28.066	2.18
950	-0.658	-0.696	34.909	28.067	2.09
960	-0.661	-0.699	34.909	28.067	2.04
970	-0.669	-0.708	34.910	28.068	1.93
980	-0.673	-0.712	34.910	28.069	1.84
990	-0.676	-0.715	34.911	28.069	1.77
1000	-0.681	-0.721	34.911	28.069	1.70

B89.519					
depth	temp	theta	salnty	sig_th	delta
1010	-0.679	-0.720	34.912	28.070	1.63
1020	-0.686	-0.727	34.912	28.070	1.57
1030	-0.689	-0.730	34.912	28.071	1.52
1040	-0.694	-0.735	34.912	28.071	1.42
1050	-0.699	-0.741	34.913	28.072	1.31
1060	-0.702	-0.744	34.914	28.073	1.24
1070	-0.703	-0.746	34.913	28.073	1.21
1080	-0.713	-0.756	34.914	28.073	1.11
1090	-0.718	-0.762	34.915	28.074	0.99
1100	-0.727	-0.772	34.915	28.075	0.89
1110	-0.725	-0.770	34.915	28.075	0.90
1120	-0.727	-0.772	34.915	28.075	0.83
1130	-0.734	-0.779	34.915	28.076	0.75
1140	-0.739	-0.785	34.915	28.076	0.69
1150	-0.739	-0.785	34.916	28.076	0.64
1160	-0.748	-0.795	34.916	28.077	0.49
1170	-0.751	-0.798	34.917	28.078	0.44
1180	-0.751	-0.799	34.917	28.078	0.40
1190	-0.754	-0.802	34.916	28.077	0.42
1200	-0.759	-0.808	34.917	28.078	0.28
1210	-0.761	-0.810	34.917	28.079	0.24
1220	-0.763	-0.813	34.917	28.079	0.18
1230	-0.769	-0.819	34.917	28.079	0.12
1240	-0.774	-0.824	34.917	28.079	0.08
1250	-0.782	-0.833	34.917	28.080	-0.01
1260	-0.786	-0.838	34.917	28.080	-0.06
1270	-0.790	-0.843	34.917	28.080	-0.11
1280	-0.793	-0.846	34.917	28.080	-0.16
1290	-0.799	-0.853	34.917	28.080	-0.23
1300	-0.803	-0.857	34.917	28.081	-0.28
1310	-0.809	-0.863	34.917	28.081	-0.35
1320	-0.812	-0.867	34.917	28.081	-0.38
1330	-0.815	-0.870	34.918	28.081	-0.45
1340	-0.818	-0.874	34.917	28.081	-0.47
1350	-0.821	-0.877	34.917	28.082	-0.53
1360	-0.825	-0.881	34.918	28.082	-0.59
1370	-0.828	-0.885	34.918	28.082	-0.65
1380	-0.833	-0.891	34.917	28.082	-0.67
1390	-0.837	-0.896	34.918	28.082	-0.75
1400	-0.839	-0.898	34.917	28.082	-0.77
1410	-0.843	-0.902	34.917	28.082	-0.81
1420	-0.846	-0.906	34.917	28.083	-0.86
1430	-0.850	-0.910	34.917	28.083	-0.91
1440	-0.853	-0.914	34.917	28.083	-0.96
1450	-0.855	-0.916	34.917	28.083	-1.00
1460	-0.860	-0.922	34.917	28.083	-1.08
1470	-0.865	-0.927	34.917	28.084	-1.13
1480	-0.868	-0.931	34.917	28.084	-1.17
1490	-0.876	-0.939	34.916	28.083	-1.20
1500	-0.885	-0.948	34.916	28.084	-1.30
1510	-0.888	-0.952	34.916	28.084	-1.34
1520	-0.888	-0.953	34.916	28.084	-1.37
1530	-0.894	-0.960	34.916	28.084	-1.43
1540	-0.894	-0.960	34.916	28.084	-1.46
1550	-0.897	-0.963	34.916	28.084	-1.51

B89.519					
depth	temp	theta	salnty	sig_th	delta
1560	-0.899	-0.966	34.916	28.084	-1.54
1570	-0.896	-0.963	34.917	28.084	-1.56
1580	-0.899	-0.967	34.917	28.085	-1.62
1590	-0.902	-0.971	34.917	28.085	-1.66
1600	-0.905	-0.974	34.917	28.085	-1.71
1610	-0.906	-0.976	34.917	28.085	-1.75
1620	-0.909	-0.979	34.917	28.085	-1.79
1630	-0.911	-0.982	34.917	28.085	-1.82
1640	-0.913	-0.984	34.917	28.085	-1.88
1650	-0.915	-0.987	34.917	28.085	-1.91
1660	-0.916	-0.988	34.916	28.085	-1.93
1670	-0.919	-0.992	34.917	28.086	-2.00
1680	-0.923	-0.997	34.917	28.086	-2.05
1690	-0.925	-0.999	34.916	28.086	-2.06
1700	-0.929	-1.003	34.917	28.086	-2.14
1710	-0.931	-1.006	34.916	28.086	-2.14
1720	-0.933	-1.009	34.916	28.086	-2.22
1730	-0.936	-1.012	34.916	28.086	-2.26
1740	-0.939	-1.016	34.916	28.086	-2.29
1750	-0.941	-1.019	34.916	28.086	-2.34
1760	-0.946	-1.024	34.916	28.086	-2.38
1770	-0.947	-1.026	34.916	28.086	-2.43
1780	-0.950	-1.029	34.916	28.086	-2.45
1790	-0.953	-1.032	34.915	28.086	-2.49
1800	-0.954	-1.034	34.916	28.087	-2.54
1810	-0.958	-1.038	34.915	28.086	-2.57
1820	-0.959	-1.040	34.915	28.087	-2.62
1830	-0.961	-1.042	34.916	28.087	-2.67
1840	-0.964	-1.047	34.915	28.087	-2.69
1850	-0.970	-1.053	34.915	28.087	-2.74
1860	-0.971	-1.054	34.915	28.086	-2.76
1870	-0.973	-1.057	34.914	28.086	-2.78
1880	-0.975	-1.060	34.914	28.087	-2.83
1890	-0.980	-1.065	34.915	28.087	-2.90
1900	-0.985	-1.071	34.914	28.087	-2.93
1910	-0.992	-1.078	34.914	28.087	-3.01
1920	-0.993	-1.080	34.914	28.087	-3.04
1930	-0.997	-1.085	34.914	28.087	-3.09
1940	-1.000	-1.088	34.913	28.086	-3.08
1950	-1.005	-1.093	34.913	28.086	-3.15
1960	-1.007	-1.096	34.913	28.086	-3.18
1970	-1.011	-1.101	34.912	28.086	-3.22
1980	-1.012	-1.102	34.912	28.086	-3.23
1990	-1.015	-1.106	34.912	28.086	-3.29
2000	-1.021	-1.112	34.912	28.087	-3.37
2010	-1.023	-1.115	34.911	28.086	-3.35
2020	-1.028	-1.120	34.911	28.086	-3.38
2030	-1.029	-1.122	34.910	28.086	-3.40
2040	-1.030	-1.124	34.911	28.086	-3.45
2050	-1.031	-1.126	34.910	28.086	-3.48
2060	-1.035	-1.129	34.910	28.086	-3.51
2070	-1.037	-1.133	34.910	28.086	-3.54
2080	-1.040	-1.136	34.910	28.086	-3.57
2090	-1.044	-1.140	34.909	28.085	-3.59
2100	-1.045	-1.142	34.909	28.085	-3.64
2110	-1.046	-1.144	34.909	28.085	-3.66
2120	-1.048	-1.146	34.909	28.085	-3.70

B89.520					
depth	temp	theta	salnty	sig_th	delta
5	2.644	2.644	31.894	25.435	253.37
10	2.635	2.634	31.894	25.436	253.30
15	2.619	2.619	31.904	25.445	252.44
20	2.607	2.606	31.939	25.474	249.72
25	1.528	1.527	33.218	26.578	144.85
30	-0.446	-0.447	33.922	27.257	80.32
35	-0.719	-0.720	34.136	27.442	62.80
40	-0.563	-0.564	34.274	27.547	52.85
45	-0.579	-0.580	34.328	27.592	48.58
50	-0.261	-0.263	34.380	27.619	46.04
55	-0.021	-0.023	34.453	27.666	41.67
60	0.209	0.207	34.507	27.697	38.75
65	0.384	0.381	34.557	27.728	35.88
70	0.517	0.514	34.603	27.757	33.16
75	0.636	0.632	34.636	27.776	31.32
80	0.673	0.670	34.674	27.804	28.71
85	0.810	0.806	34.705	27.821	27.21
90	0.632	0.628	34.740	27.860	23.40
95	0.761	0.757	34.753	27.863	23.23
100	0.845	0.841	34.776	27.876	22.00
110	0.742	0.737	34.794	27.897	20.04
120	0.776	0.771	34.815	27.912	18.65
130	0.876	0.870	34.847	27.931	16.87
140	0.886	0.880	34.855	27.937	16.33
150	0.883	0.876	34.872	27.951	15.09
160	0.859	0.852	34.879	27.958	14.37
170	0.815	0.808	34.883	27.964	13.84
180	0.776	0.768	34.889	27.972	13.14
190	0.801	0.793	34.895	27.974	12.91
200	0.766	0.757	34.899	27.980	12.36
210	0.724	0.715	34.899	27.983	12.12
220	0.720	0.710	34.903	27.986	11.81
230	0.654	0.644	34.906	27.993	11.17
240	0.635	0.624	34.907	27.995	10.97
250	0.552	0.541	34.907	28.000	10.46
260	0.535	0.524	34.908	28.002	10.29
270	0.520	0.508	34.908	28.003	10.18
280	0.510	0.498	34.911	28.006	9.92
290	0.504	0.492	34.914	28.009	9.64
300	0.495	0.482	34.916	28.011	9.42
310	0.469	0.455	34.918	28.015	9.11
320	0.399	0.386	34.916	28.017	8.82
330	0.371	0.357	34.917	28.019	8.62
340	0.336	0.322	34.917	28.021	8.38
350	0.292	0.278	34.915	28.022	8.28
360	0.263	0.248	34.914	28.023	8.16
370	0.239	0.223	34.913	28.024	8.07
380	0.199	0.183	34.912	28.025	7.91
390	0.181	0.165	34.911	28.026	7.86
400	0.135	0.118	34.911	28.028	7.57
410	0.093	0.077	34.911	28.030	7.34
420	0.062	0.045	34.910	28.031	7.19
430	0.025	0.007	34.910	28.033	6.99
440	0.002	-0.016	34.909	28.034	6.91
450	-0.035	-0.053	34.909	28.036	6.68

B89.520					
depth	temp	theta	salnty	sig_th	delta
460	-0.074	-0.092	34.908	28.037	6.48
470	-0.111	-0.130	34.908	28.039	6.29
480	-0.131	-0.150	34.907	28.039	6.23
490	-0.162	-0.181	34.907	28.040	6.05
500	-0.187	-0.206	34.906	28.041	5.93
510	-0.200	-0.220	34.906	28.042	5.86
520	-0.220	-0.240	34.905	28.042	5.76
530	-0.238	-0.259	34.906	28.044	5.62
540	-0.258	-0.279	34.905	28.044	5.50
550	-0.270	-0.291	34.905	28.045	5.46
560	-0.289	-0.311	34.905	28.046	5.34
570	-0.303	-0.325	34.905	28.046	5.23
580	-0.319	-0.341	34.905	28.047	5.12
590	-0.331	-0.354	34.905	28.048	5.07
600	-0.345	-0.368	34.904	28.048	5.00
610	-0.364	-0.388	34.905	28.049	4.83
620	-0.382	-0.406	34.905	28.050	4.69
630	-0.396	-0.420	34.905	28.051	4.61
640	-0.406	-0.431	34.904	28.051	4.57
650	-0.418	-0.443	34.904	28.051	4.48
660	-0.427	-0.452	34.904	28.052	4.43
670	-0.443	-0.469	34.904	28.053	4.31
680	-0.457	-0.484	34.904	28.053	4.21
690	-0.469	-0.496	34.904	28.054	4.12
700	-0.477	-0.504	34.905	28.055	4.02
710	-0.487	-0.514	34.905	28.055	3.94
720	-0.495	-0.522	34.904	28.055	3.89
730	-0.502	-0.530	34.904	28.056	3.83
740	-0.512	-0.541	34.904	28.056	3.76
750	-0.519	-0.548	34.905	28.057	3.68
760	-0.526	-0.556	34.904	28.057	3.62
770	-0.532	-0.562	34.905	28.057	3.57
780	-0.538	-0.568	34.905	28.058	3.50
790	-0.549	-0.580	34.905	28.059	3.37
800	-0.562	-0.593	34.906	28.060	3.23
810	-0.566	-0.597	34.905	28.060	3.21
820	-0.570	-0.601	34.905	28.060	3.18
830	-0.578	-0.610	34.906	28.060	3.08
840	-0.586	-0.618	34.907	28.062	2.92
850	-0.589	-0.622	34.906	28.061	2.95
860	-0.593	-0.626	34.906	28.062	2.90
870	-0.594	-0.628	34.906	28.062	2.85
880	-0.597	-0.632	34.907	28.062	2.79
890	-0.600	-0.635	34.907	28.063	2.71
900	-0.608	-0.643	34.908	28.063	2.62
910	-0.611	-0.647	34.908	28.064	2.53
920	-0.617	-0.653	34.909	28.065	2.46
930	-0.622	-0.658	34.909	28.065	2.40
940	-0.633	-0.670	34.910	28.067	2.21
950	-0.639	-0.677	34.910	28.067	2.11
960	-0.649	-0.687	34.911	28.068	1.99
970	-0.653	-0.692	34.911	28.068	1.95
980	-0.657	-0.696	34.911	28.069	1.88
990	-0.659	-0.699	34.911	28.069	1.82
1000	-0.664	-0.704	34.912	28.070	1.74

B89.520					
depth	temp	theta	salnty	sig_th	delta
1010	-0.668	-0.709	34.912	28.070	1.67
1020	-0.673	-0.714	34.913	28.071	1.58
1030	-0.680	-0.721	34.913	28.072	1.45
1040	-0.687	-0.729	34.913	28.072	1.39
1050	-0.690	-0.732	34.914	28.072	1.33
1060	-0.700	-0.743	34.914	28.073	1.23
1070	-0.704	-0.747	34.914	28.073	1.16
1080	-0.714	-0.757	34.914	28.074	1.04
1090	-0.713	-0.756	34.914	28.074	1.04
1100	-0.709	-0.753	34.915	28.075	0.98
1110	-0.709	-0.754	34.915	28.075	0.95
1120	-0.709	-0.754	34.915	28.075	0.92
1130	-0.712	-0.758	34.916	28.075	0.85
1140	-0.720	-0.766	34.916	28.076	0.75
1150	-0.723	-0.770	34.916	28.076	0.72
1160	-0.728	-0.775	34.916	28.076	0.66
1170	-0.734	-0.782	34.917	28.077	0.54
1180	-0.737	-0.785	34.917	28.078	0.47
1190	-0.740	-0.789	34.917	28.078	0.41
1200	-0.741	-0.790	34.917	28.077	0.43
1210	-0.746	-0.796	34.917	28.078	0.37
1220	-0.751	-0.801	34.918	28.079	0.24
1230	-0.756	-0.807	34.917	28.078	0.27
1240	-0.760	-0.811	34.917	28.079	0.17
1250	-0.762	-0.814	34.917	28.079	0.13
1260	-0.765	-0.817	34.918	28.079	0.08
1270	-0.770	-0.823	34.918	28.080	-0.03
1280	-0.775	-0.828	34.918	28.080	-0.10
1290	-0.783	-0.836	34.918	28.081	-0.18
1300	-0.787	-0.841	34.918	28.081	-0.23
1310	-0.787	-0.842	34.918	28.081	-0.24
1320	-0.795	-0.850	34.918	28.081	-0.34
1330	-0.801	-0.857	34.919	28.082	-0.45
1340	-0.804	-0.860	34.918	28.081	-0.44
1350	-0.809	-0.865	34.919	28.082	-0.53
1360	-0.813	-0.870	34.919	28.082	-0.58
1370	-0.813	-0.870	34.918	28.082	-0.56
1380	-0.815	-0.873	34.918	28.082	-0.63
1390	-0.816	-0.874	34.919	28.083	-0.73
1400	-0.820	-0.879	34.919	28.083	-0.74
1410	-0.826	-0.886	34.919	28.083	-0.83
1420	-0.833	-0.893	34.919	28.083	-0.89
1430	-0.846	-0.906	34.919	28.084	-1.06
1440	-0.848	-0.909	34.919	28.084	-1.03
1450	-0.853	-0.915	34.918	28.084	-1.04
1460	-0.857	-0.919	34.918	28.084	-1.11
1470	-0.860	-0.922	34.918	28.084	-1.15
1480	-0.861	-0.924	34.918	28.084	-1.20
1490	-0.864	-0.927	34.918	28.084	-1.25
1500	-0.865	-0.929	34.918	28.084	-1.27
1510	-0.870	-0.934	34.919	28.085	-1.38
1520	-0.871	-0.936	34.918	28.084	-1.34
1530	-0.872	-0.937	34.919	28.085	-1.44
1540	-0.875	-0.941	34.919	28.085	-1.47
1550	-0.875	-0.942	34.918	28.085	-1.48

B89.520					
depth	temp	theta	salnty	sig_th	delta
1560	-0.877	-0.944	34.918	28.085	-1.52
1570	-0.878	-0.945	34.919	28.085	-1.56
1580	-0.880	-0.948	34.918	28.085	-1.56
1590	-0.885	-0.954	34.918	28.085	-1.64
1600	-0.890	-0.959	34.919	28.086	-1.73
1610	-0.894	-0.963	34.918	28.086	-1.77
1620	-0.896	-0.966	34.918	28.086	-1.79
1630	-0.900	-0.971	34.918	28.086	-1.83
1640	-0.902	-0.973	34.918	28.086	-1.88
1650	-0.907	-0.979	34.918	28.086	-1.97
1660	-0.914	-0.986	34.918	28.086	-2.01
1670	-0.915	-0.988	34.917	28.086	-2.02
1680	-0.919	-0.993	34.918	28.087	-2.14
1690	-0.925	-0.999	34.918	28.087	-2.22
1700	-0.931	-1.006	34.917	28.087	-2.22
1710	-0.934	-1.009	34.917	28.087	-2.26
1720	-0.936	-1.011	34.918	28.087	-2.33
1730	-0.940	-1.016	34.917	28.087	-2.35
1740	-0.943	-1.020	34.916	28.086	-2.33
1750	-0.948	-1.025	34.916	28.087	-2.42
1760	-0.951	-1.029	34.916	28.086	-2.42
1770	-0.953	-1.031	34.916	28.087	-2.47
1780	-0.954	-1.033	34.916	28.087	-2.52
1790	-0.956	-1.036	34.916	28.087	-2.54
1800	-0.958	-1.037	34.916	28.087	-2.56
1810	-0.961	-1.041	34.916	28.087	-2.66
1820	-0.963	-1.044	34.916	28.087	-2.67
1830	-0.965	-1.047	34.916	28.087	-2.70
1840	-0.967	-1.050	34.916	28.087	-2.75
1850	-0.968	-1.051	34.915	28.087	-2.75
1860	-0.969	-1.053	34.915	28.087	-2.79
1870	-0.970	-1.054	34.915	28.087	-2.82
1880	-0.970	-1.055	34.915	28.087	-2.85
1890	-0.971	-1.057	34.915	28.087	-2.88
1900	-0.971	-1.057	34.915	28.087	-2.88
1910	-0.973	-1.060	34.915	28.087	-2.93
1920	-0.974	-1.061	34.915	28.087	-2.96
1930	-0.975	-1.063	34.915	28.087	-3.01
1940	-0.975	-1.063	34.915	28.087	-3.02
1950	-0.976	-1.065	34.915	28.087	-3.06
1960	-0.977	-1.066	34.915	28.087	-3.06
1970	-0.979	-1.069	34.915	28.087	-3.10
1980	-0.980	-1.071	34.914	28.087	-3.10
1990	-0.982	-1.073	34.914	28.087	-3.16
2000	-0.983	-1.075	34.914	28.087	-3.19
2010	-0.983	-1.076	34.914	28.087	-3.21
2020	-0.984	-1.077	34.914	28.087	-3.24
2030	-0.986	-1.079	34.914	28.087	-3.27
2040	-0.987	-1.081	34.914	28.087	-3.33
2050	-0.990	-1.085	34.914	28.087	-3.37
2060	-0.990	-1.086	34.914	28.087	-3.37
2070	-0.992	-1.088	34.913	28.087	-3.38
2080	-0.994	-1.091	34.913	28.087	-3.42
2090	-0.996	-1.093	34.913	28.087	-3.47
2100	-0.998	-1.096	34.913	28.087	-3.49

B89.520					
depth	temp	theta	salnty	sig_th	delta
2110	-1.000	-1.099	34.913	28.087	-3.53
2120	-1.001	-1.100	34.913	28.087	-3.56
2130	-1.004	-1.104	34.913	28.087	-3.60
2140	-1.004	-1.104	34.913	28.087	-3.62
2150	-1.006	-1.107	34.912	28.086	-3.62
2160	-1.007	-1.109	34.912	28.086	-3.65
2170	-1.011	-1.113	34.912	28.087	-3.73
2180	-1.013	-1.116	34.912	28.087	-3.74
2190	-1.017	-1.120	34.912	28.087	-3.80
2200	-1.021	-1.125	34.911	28.086	-3.82
2210	-1.026	-1.131	34.911	28.086	-3.88
2220	-1.029	-1.135	34.911	28.086	-3.92
2230	-1.034	-1.140	34.910	28.086	-3.94
2240	-1.039	-1.145	34.910	28.086	-3.99
2250	-1.045	-1.152	34.909	28.086	-4.03
2260	-1.048	-1.156	34.908	28.085	-4.03
2270	-1.050	-1.158	34.908	28.085	-4.08
2280	-1.050	-1.159	34.908	28.085	-4.11

B89.521					
depth	temp	theta	salnty	sig_th	delta
5	2.599	2.599	31.911	25.452	251.75
10	2.593	2.592	32.054	25.568	240.79
15	2.517	2.516	32.097	25.608	237.00
20	-0.132	-0.132	33.880	27.209	84.95
25	-0.155	-0.156	34.076	27.368	69.87
30	-0.093	-0.094	34.218	27.480	59.26
35	0.000	-0.001	34.326	27.562	51.49
40	-0.207	-0.209	34.398	27.631	44.95
45	0.112	0.110	34.451	27.657	42.52
50	0.084	0.082	34.489	27.689	39.47
55	-0.065	-0.067	34.554	27.750	33.71
60	0.098	0.096	34.563	27.748	33.86
65	0.475	0.472	34.618	27.772	31.74
70	0.604	0.601	34.663	27.800	29.12
75	0.753	0.750	34.712	27.831	26.24
80	1.061	1.058	34.735	27.829	26.47
85	0.899	0.895	34.753	27.853	24.12
90	1.251	1.247	34.791	27.861	23.53
95	1.436	1.431	34.826	27.876	22.20
100	1.569	1.564	34.847	27.883	21.55
110	1.673	1.667	34.876	27.898	20.19
120	1.399	1.393	34.873	27.916	18.43
130	1.217	1.211	34.876	27.931	17.01
140	1.097	1.091	34.878	27.942	16.00
150	0.992	0.985	34.874	27.946	15.62
160	1.037	1.030	34.879	27.946	15.63
170	1.204	1.196	34.899	27.951	15.26
180	1.078	1.069	34.902	27.962	14.17
190	1.053	1.044	34.903	27.965	13.94
200	0.996	0.987	34.906	27.971	13.36
210	0.927	0.918	34.906	27.975	12.94
220	0.901	0.891	34.907	27.978	12.73
230	0.864	0.853	34.908	27.981	12.37
240	0.753	0.743	34.906	27.987	11.84
250	0.742	0.731	34.907	27.989	11.65
260	0.762	0.750	34.910	27.990	11.61
270	0.787	0.775	34.918	27.995	11.15
280	0.725	0.713	34.919	27.999	10.72
290	0.725	0.712	34.921	28.001	10.55
300	0.702	0.689	34.922	28.003	10.37
310	0.684	0.670	34.922	28.005	10.22
320	0.668	0.653	34.923	28.006	10.07
330	0.634	0.619	34.924	28.009	9.78
340	0.629	0.613	34.924	28.010	9.75
350	0.596	0.580	34.925	28.012	9.51
360	0.538	0.523	34.923	28.014	9.27
370	0.502	0.486	34.924	28.017	8.96
380	0.452	0.435	34.921	28.018	8.85
390	0.413	0.397	34.921	28.020	8.66
400	0.399	0.381	34.919	28.019	8.73
410	0.369	0.352	34.919	28.021	8.51
420	0.339	0.321	34.918	28.022	8.40
430	0.301	0.282	34.918	28.024	8.17
440	0.265	0.246	34.917	28.025	8.01
450	0.226	0.207	34.917	28.028	7.77

B89.521					
depth	temp	theta	salnty	sig_th	delta
460	0.182	0.163	34.915	28.029	7.60
470	0.166	0.146	34.914	28.029	7.60
480	0.139	0.119	34.914	28.030	7.41
490	0.111	0.091	34.913	28.031	7.29
500	0.078	0.057	34.913	28.033	7.09
510	0.053	0.032	34.911	28.033	7.06
520	0.007	-0.014	34.911	28.035	6.79
530	-0.028	-0.050	34.911	28.037	6.55
540	-0.039	-0.061	34.910	28.037	6.56
550	-0.072	-0.094	34.910	28.039	6.33
560	-0.089	-0.112	34.908	28.038	6.33
570	-0.108	-0.131	34.909	28.040	6.16
580	-0.132	-0.155	34.909	28.041	6.04
590	-0.160	-0.184	34.909	28.043	5.80
600	-0.189	-0.213	34.909	28.044	5.60
610	-0.208	-0.232	34.908	28.044	5.58
620	-0.213	-0.238	34.909	28.045	5.47
630	-0.225	-0.250	34.909	28.046	5.40
640	-0.255	-0.280	34.910	28.048	5.12
650	-0.270	-0.296	34.909	28.048	5.07
660	-0.283	-0.309	34.908	28.048	5.02
670	-0.301	-0.328	34.909	28.050	4.82
680	-0.310	-0.337	34.909	28.050	4.81
690	-0.325	-0.353	34.908	28.050	4.73
700	-0.342	-0.370	34.908	28.051	4.61
710	-0.356	-0.384	34.908	28.051	4.55
720	-0.367	-0.396	34.908	28.052	4.44
730	-0.386	-0.415	34.908	28.053	4.32
740	-0.396	-0.426	34.908	28.054	4.24
750	-0.405	-0.435	34.907	28.053	4.24
760	-0.420	-0.450	34.907	28.054	4.13
770	-0.428	-0.458	34.907	28.054	4.07
780	-0.430	-0.461	34.908	28.055	3.98
790	-0.443	-0.475	34.907	28.055	3.92
800	-0.452	-0.483	34.908	28.056	3.82
810	-0.459	-0.491	34.908	28.057	3.73
820	-0.468	-0.501	34.907	28.056	3.75
830	-0.483	-0.516	34.908	28.058	3.56
840	-0.492	-0.526	34.908	28.058	3.49
850	-0.498	-0.532	34.908	28.059	3.42
860	-0.501	-0.535	34.908	28.059	3.35
870	-0.512	-0.547	34.908	28.059	3.30
880	-0.524	-0.559	34.908	28.060	3.18
890	-0.530	-0.565	34.908	28.060	3.15
900	-0.532	-0.568	34.908	28.060	3.12
910	-0.540	-0.577	34.908	28.061	3.01
920	-0.546	-0.583	34.909	28.061	2.94
930	-0.552	-0.589	34.909	28.062	2.86
940	-0.552	-0.590	34.909	28.063	2.80
950	-0.564	-0.602	34.910	28.063	2.68
960	-0.570	-0.608	34.910	28.064	2.60
970	-0.576	-0.615	34.910	28.064	2.54
980	-0.585	-0.625	34.910	28.065	2.45
990	-0.590	-0.630	34.911	28.065	2.37
1000	-0.597	-0.638	34.911	28.066	2.24

B89.521					
depth	temp	theta	salnty	sig_th	delta
1010	-0.602	-0.643	34.911	28.067	2.19
1020	-0.605	-0.647	34.911	28.067	2.15
1030	-0.616	-0.658	34.912	28.068	2.02
1040	-0.620	-0.662	34.912	28.068	2.00
1050	-0.625	-0.667	34.912	28.068	1.91
1060	-0.630	-0.673	34.913	28.069	1.82
1070	-0.634	-0.677	34.913	28.069	1.77
1080	-0.637	-0.681	34.913	28.069	1.73
1090	-0.642	-0.686	34.913	28.070	1.65
1100	-0.647	-0.692	34.914	28.070	1.55
1110	-0.651	-0.696	34.914	28.071	1.51
1120	-0.657	-0.703	34.914	28.071	1.40
1130	-0.663	-0.710	34.914	28.072	1.32
1140	-0.669	-0.716	34.915	28.072	1.23
1150	-0.672	-0.719	34.915	28.073	1.17
1160	-0.677	-0.724	34.915	28.073	1.13
1170	-0.679	-0.728	34.915	28.073	1.10
1180	-0.684	-0.732	34.915	28.073	1.03
1190	-0.688	-0.737	34.915	28.074	0.98
1200	-0.698	-0.747	34.916	28.075	0.83
1210	-0.701	-0.751	34.915	28.074	0.85
1220	-0.709	-0.760	34.915	28.075	0.74
1230	-0.710	-0.761	34.915	28.075	0.71
1240	-0.714	-0.765	34.915	28.075	0.66
1250	-0.721	-0.773	34.917	28.077	0.49
1260	-0.723	-0.776	34.916	28.076	0.50
1270	-0.727	-0.780	34.917	28.077	0.41
1280	-0.729	-0.782	34.916	28.077	0.39
1290	-0.731	-0.785	34.917	28.077	0.33
1300	-0.732	-0.786	34.917	28.077	0.32
1310	-0.736	-0.791	34.917	28.077	0.27
1320	-0.744	-0.799	34.917	28.078	0.13
1330	-0.749	-0.805	34.917	28.078	0.09
1340	-0.754	-0.810	34.917	28.079	0.02
1350	-0.757	-0.814	34.917	28.079	-0.03
1360	-0.762	-0.820	34.917	28.079	-0.05
1370	-0.767	-0.825	34.917	28.079	-0.16
1380	-0.770	-0.828	34.918	28.080	-0.21
1390	-0.770	-0.829	34.918	28.080	-0.25
1400	-0.775	-0.834	34.918	28.080	-0.30
1410	-0.778	-0.838	34.918	28.080	-0.38
1420	-0.782	-0.842	34.918	28.080	-0.41
1430	-0.786	-0.847	34.918	28.080	-0.44
1440	-0.789	-0.850	34.918	28.081	-0.50
1450	-0.792	-0.854	34.918	28.081	-0.55
1460	-0.797	-0.859	34.918	28.081	-0.62
1470	-0.801	-0.864	34.918	28.082	-0.68
1480	-0.804	-0.867	34.918	28.082	-0.73
1490	-0.806	-0.870	34.918	28.082	-0.76
1500	-0.810	-0.875	34.918	28.082	-0.84
1510	-0.812	-0.877	34.918	28.082	-0.88
1520	-0.815	-0.880	34.918	28.082	-0.92
1530	-0.819	-0.885	34.918	28.082	-0.95
1540	-0.827	-0.893	34.918	28.083	-1.04
1550	-0.830	-0.897	34.918	28.083	-1.08

B89.521					
depth	temp	theta	salnty	sig_th	delta
1560	-0.833	-0.900	34.918	28.083	-1.14
1570	-0.836	-0.904	34.918	28.083	-1.17
1580	-0.839	-0.908	34.918	28.083	-1.21
1590	-0.843	-0.912	34.918	28.084	-1.28
1600	-0.846	-0.916	34.917	28.083	-1.28
1610	-0.849	-0.919	34.918	28.084	-1.35
1620	-0.853	-0.923	34.918	28.084	-1.39
1630	-0.860	-0.931	34.918	28.084	-1.49
1640	-0.862	-0.934	34.918	28.084	-1.51
1650	-0.867	-0.939	34.918	28.084	-1.59
1660	-0.870	-0.943	34.917	28.084	-1.62
1670	-0.872	-0.946	34.917	28.084	-1.65
1680	-0.875	-0.949	34.918	28.085	-1.72
1690	-0.878	-0.952	34.917	28.085	-1.75
1700	-0.879	-0.954	34.918	28.085	-1.80
1710	-0.883	-0.958	34.917	28.085	-1.83
1720	-0.885	-0.961	34.917	28.085	-1.87
1730	-0.888	-0.965	34.917	28.085	-1.93
1740	-0.893	-0.970	34.917	28.085	-1.96
1750	-0.894	-0.972	34.917	28.085	-2.01
1760	-0.897	-0.975	34.917	28.085	-2.06
1770	-0.900	-0.979	34.917	28.085	-2.10
1780	-0.905	-0.984	34.917	28.086	-2.19
1790	-0.907	-0.987	34.917	28.086	-2.21
1800	-0.911	-0.991	34.917	28.086	-2.25
1810	-0.915	-0.996	34.917	28.086	-2.32
1820	-0.917	-0.999	34.917	28.086	-2.35
1830	-0.918	-1.001	34.917	28.086	-2.39
1840	-0.920	-1.003	34.916	28.086	-2.39
1850	-0.924	-1.007	34.917	28.086	-2.47
1860	-0.926	-1.010	34.916	28.086	-2.49
1870	-0.929	-1.014	34.916	28.086	-2.54
1880	-0.934	-1.019	34.916	28.087	-2.61
1890	-0.935	-1.021	34.916	28.087	-2.64
1900	-0.937	-1.024	34.916	28.086	-2.65
1910	-0.938	-1.025	34.916	28.087	-2.70
1920	-0.939	-1.027	34.916	28.086	-2.70
1930	-0.941	-1.029	34.916	28.086	-2.75
1940	-0.943	-1.032	34.916	28.087	-2.80
1950	-0.945	-1.035	34.916	28.087	-2.84
1960	-0.948	-1.038	34.915	28.086	-2.86
1970	-0.951	-1.041	34.916	28.087	-2.92
1980	-0.955	-1.046	34.915	28.087	-2.95
1990	-0.959	-1.051	34.915	28.087	-3.02
2000	-0.961	-1.053	34.915	28.087	-3.04
2010	-0.963	-1.056	34.914	28.086	-3.02
2020	-0.967	-1.060	34.915	28.087	-3.12
2030	-0.968	-1.062	34.914	28.087	-3.13
2040	-0.969	-1.063	34.914	28.087	-3.17
2050	-0.971	-1.066	34.915	28.087	-3.23
2060	-0.973	-1.069	34.914	28.087	-3.24
2070	-0.978	-1.074	34.914	28.087	-3.31
2080	-0.980	-1.077	34.914	28.086	-3.31
2090	-0.983	-1.081	34.914	28.087	-3.37
2100	-0.985	-1.083	34.914	28.087	-3.42

B89.521					
depth	temp	theta	salnty	sig_th	delta
2110	-0.987	-1.086	34.914	28.087	-3.45
2120	-0.990	-1.089	34.913	28.086	-3.45
2130	-0.991	-1.091	34.913	28.086	-3.48
2140	-0.993	-1.094	34.913	28.087	-3.53
2150	-0.995	-1.096	34.913	28.087	-3.56
2160	-0.997	-1.099	34.912	28.086	-3.58
2170	-0.999	-1.101	34.912	28.086	-3.62
2180	-1.000	-1.104	34.912	28.086	-3.65
2190	-1.003	-1.107	34.912	28.086	-3.69
2200	-1.004	-1.109	34.912	28.086	-3.70
2210	-1.006	-1.112	34.911	28.086	-3.73
2220	-1.008	-1.113	34.912	28.086	-3.78
2230	-1.008	-1.115	34.911	28.086	-3.79
2240	-1.009	-1.116	34.911	28.086	-3.81
2250	-1.011	-1.119	34.911	28.086	-3.87
2260	-1.014	-1.122	34.911	28.086	-3.90
2270	-1.016	-1.125	34.911	28.086	-3.93
2280	-1.016	-1.126	34.911	28.086	-3.96
2290	-1.017	-1.128	34.910	28.086	-3.97
2300	-1.018	-1.129	34.910	28.086	-3.99
2310	-1.018	-1.130	34.910	28.086	-4.02
2320	-1.019	-1.131	34.910	28.086	-4.04
2330	-1.019	-1.132	34.910	28.086	-4.06
2340	-1.020	-1.134	34.910	28.086	-4.09
2350	-1.020	-1.135	34.910	28.086	-4.11
2360	-1.020	-1.135	34.910	28.086	-4.15
2370	-1.021	-1.137	34.910	28.086	-4.17
2380	-1.021	-1.138	34.910	28.086	-4.19
2390	-1.022	-1.139	34.910	28.086	-4.22
2400	-1.024	-1.142	34.910	28.086	-4.26
2410	-1.024	-1.143	34.909	28.086	-4.26
2420	-1.024	-1.143	34.909	28.086	-4.30
2430	-1.024	-1.143	34.909	28.086	-4.32
2440	-1.024	-1.144	34.909	28.086	-4.34
2450	-1.024	-1.145	34.909	28.086	-4.37
2460	-1.024	-1.146	34.909	28.085	-4.37
2470	-1.024	-1.146	34.909	28.086	-4.40
2480	-1.023	-1.146	34.909	28.086	-4.42
2490	-1.024	-1.148	34.909	28.086	-4.44

B89.522					
depth	temp	theta	salnty	sig_th	delta
5	3.471	3.471	33.721	26.821	121.80
10	3.472	3.471	33.723	26.822	121.70
15	3.553	3.552	34.284	27.262	80.07
20	4.514	4.513	34.599	27.413	65.88
25	4.512	4.510	34.622	27.431	64.21
30	4.037	4.035	34.674	27.524	55.46
35	2.672	2.670	34.687	27.665	42.02
40	1.655	1.653	34.682	27.744	34.46
45	1.362	1.359	34.700	27.780	31.07
50	0.875	0.873	34.740	27.845	24.85
55	1.035	1.032	34.764	27.853	24.09
60	0.264	0.262	34.743	27.884	21.05
65	0.592	0.589	34.779	27.894	20.15
70	0.552	0.549	34.778	27.896	20.03
75	0.907	0.904	34.810	27.899	19.80
80	0.852	0.848	34.820	27.911	18.65
85	0.844	0.840	34.828	27.917	18.06
90	0.831	0.827	34.832	27.922	17.62
95	0.818	0.814	34.834	27.924	17.42
100	0.843	0.839	34.841	27.929	17.05
110	0.895	0.890	34.855	27.936	16.38
120	0.936	0.931	34.872	27.947	15.35
130	0.915	0.909	34.873	27.950	15.14
140	0.866	0.860	34.876	27.955	14.67
150	0.773	0.766	34.875	27.960	14.12
160	0.738	0.731	34.876	27.963	13.88
170	0.694	0.687	34.876	27.966	13.62
180	0.650	0.642	34.876	27.969	13.33
190	0.619	0.611	34.876	27.971	13.11
200	0.579	0.570	34.877	27.974	12.80
210	0.535	0.526	34.878	27.978	12.47
220	0.528	0.519	34.879	27.979	12.37
230	0.587	0.577	34.888	27.983	12.08
240	0.563	0.553	34.892	27.988	11.61
250	0.592	0.582	34.896	27.988	11.57
260	0.590	0.578	34.901	27.993	11.17
270	0.583	0.571	34.902	27.994	11.05
280	0.572	0.560	34.905	27.997	10.76
290	0.492	0.480	34.900	27.998	10.62
300	0.439	0.426	34.897	27.999	10.53
310	0.432	0.419	34.898	28.001	10.38
320	0.414	0.400	34.897	28.000	10.41
330	0.431	0.417	34.900	28.002	10.26
340	0.441	0.426	34.902	28.003	10.19
350	0.366	0.351	34.901	28.006	9.83
360	0.340	0.324	34.900	28.008	9.69
370	0.325	0.310	34.901	28.009	9.52
380	0.303	0.287	34.903	28.012	9.25
390	0.279	0.263	34.904	28.014	9.07
400	0.246	0.229	34.905	28.017	8.78
410	0.232	0.215	34.905	28.017	8.70
420	0.211	0.193	34.905	28.019	8.54
430	0.192	0.174	34.905	28.020	8.39
440	0.177	0.159	34.906	28.022	8.25
450	0.132	0.113	34.907	28.025	7.91

B89.522					
depth	temp	theta	salnty	sig_th	delta
460	0.103	0.084	34.907	28.027	7.71
470	0.095	0.075	34.907	28.027	7.67
480	0.068	0.048	34.907	28.029	7.44
490	0.041	0.020	34.907	28.030	7.26
500	0.035	0.014	34.907	28.030	7.26
510	0.028	0.007	34.907	28.031	7.20
520	0.002	-0.019	34.908	28.033	7.00
530	-0.004	-0.025	34.907	28.033	7.00
540	-0.023	-0.045	34.908	28.034	6.83
550	-0.058	-0.080	34.908	28.036	6.57
560	-0.076	-0.099	34.908	28.037	6.44
570	-0.091	-0.114	34.908	28.038	6.35
580	-0.117	-0.141	34.909	28.040	6.10
590	-0.133	-0.157	34.909	28.041	6.00
600	-0.160	-0.184	34.908	28.042	5.86
610	-0.164	-0.189	34.908	28.042	5.87
620	-0.190	-0.215	34.907	28.042	5.78
630	-0.194	-0.220	34.908	28.044	5.64
640	-0.215	-0.241	34.909	28.045	5.46
650	-0.230	-0.256	34.909	28.046	5.34
660	-0.248	-0.275	34.909	28.047	5.19
670	-0.269	-0.296	34.909	28.048	5.08
680	-0.305	-0.332	34.908	28.049	4.92
690	-0.316	-0.344	34.907	28.049	4.86
700	-0.340	-0.368	34.907	28.050	4.72
710	-0.354	-0.382	34.906	28.050	4.66
720	-0.360	-0.388	34.906	28.050	4.66
730	-0.385	-0.414	34.906	28.052	4.46
740	-0.398	-0.428	34.906	28.052	4.37
750	-0.409	-0.439	34.905	28.052	4.33
760	-0.417	-0.447	34.906	28.053	4.19
770	-0.420	-0.451	34.906	28.053	4.18
780	-0.440	-0.471	34.906	28.054	4.05
790	-0.450	-0.481	34.906	28.055	3.95
800	-0.459	-0.490	34.907	28.056	3.84
810	-0.467	-0.499	34.907	28.056	3.75
820	-0.475	-0.507	34.906	28.056	3.73
830	-0.483	-0.516	34.907	28.057	3.60
840	-0.487	-0.520	34.907	28.058	3.54
850	-0.495	-0.529	34.908	28.058	3.45
860	-0.501	-0.535	34.908	28.059	3.39
870	-0.514	-0.549	34.908	28.060	3.26
880	-0.520	-0.555	34.908	28.060	3.22
890	-0.529	-0.565	34.908	28.060	3.13
900	-0.539	-0.575	34.908	28.061	3.04
910	-0.545	-0.582	34.908	28.061	2.99
920	-0.550	-0.586	34.909	28.062	2.91
930	-0.560	-0.597	34.909	28.063	2.77
940	-0.564	-0.601	34.910	28.063	2.69
950	-0.566	-0.604	34.910	28.064	2.66
960	-0.572	-0.610	34.911	28.064	2.55
970	-0.583	-0.622	34.911	28.065	2.45
980	-0.589	-0.628	34.911	28.066	2.35
990	-0.604	-0.644	34.912	28.067	2.16
1000	-0.610	-0.650	34.911	28.067	2.15

B89.522					
depth	temp	theta	salnty	sig_th	delta
1010	-0.621	-0.662	34.913	28.068	1.96
1020	-0.629	-0.670	34.912	28.069	1.90
1030	-0.640	-0.682	34.913	28.070	1.76
1040	-0.641	-0.683	34.913	28.069	1.77
1050	-0.645	-0.688	34.913	28.070	1.69
1060	-0.654	-0.697	34.913	28.070	1.60
1070	-0.665	-0.709	34.914	28.071	1.47
1080	-0.677	-0.721	34.914	28.072	1.35
1090	-0.679	-0.723	34.914	28.072	1.31
1100	-0.684	-0.728	34.914	28.072	1.26
1110	-0.690	-0.735	34.914	28.073	1.19
1120	-0.691	-0.737	34.914	28.073	1.14
1130	-0.694	-0.740	34.914	28.073	1.12
1140	-0.702	-0.749	34.915	28.074	1.01
1150	-0.706	-0.752	34.915	28.074	0.96
1160	-0.708	-0.755	34.915	28.074	0.92
1170	-0.710	-0.758	34.915	28.074	0.88
1180	-0.710	-0.759	34.914	28.074	0.88
1190	-0.717	-0.766	34.915	28.075	0.76
1200	-0.722	-0.771	34.915	28.075	0.71
1210	-0.730	-0.779	34.915	28.076	0.60

B89.523					
depth	temp	theta	salnty	sig_th	delta
5	4.729	4.729	34.691	27.461	61.15
10	4.735	4.734	34.691	27.461	61.24
15	4.736	4.734	34.691	27.461	61.28
20	4.739	4.737	34.691	27.461	61.37
25	4.740	4.739	34.689	27.459	61.58
30	4.738	4.735	34.692	27.462	61.37
35	4.715	4.712	34.694	27.466	61.05
40	3.707	3.704	34.775	27.638	44.72
45	3.010	3.008	34.812	27.735	35.53
50	2.573	2.570	34.826	27.785	30.78
55	1.264	1.261	34.784	27.854	24.06
60	1.275	1.272	34.755	27.830	26.34
65	1.027	1.024	34.757	27.849	24.57
70	0.853	0.850	34.764	27.865	22.95
75	0.716	0.712	34.778	27.885	21.05
80	0.711	0.708	34.779	27.887	20.93
85	1.159	1.155	34.821	27.891	20.62
90	1.198	1.194	34.826	27.892	20.56
95	1.005	1.000	34.826	27.906	19.23
100	0.935	0.931	34.833	27.916	18.27
110	1.101	1.096	34.860	27.927	17.31
120	1.090	1.084	34.872	27.937	16.40
130	1.061	1.055	34.876	27.942	15.88
140	0.982	0.976	34.879	27.950	15.15
150	0.885	0.878	34.878	27.956	14.63
160	0.623	0.616	34.873	27.968	13.36
170	0.547	0.540	34.867	27.968	13.31
180	0.523	0.516	34.868	27.970	13.14
190	0.601	0.593	34.874	27.970	13.19
200	0.609	0.600	34.879	27.974	12.89
210	0.475	0.466	34.876	27.979	12.28
220	0.466	0.457	34.876	27.981	12.19
230	0.462	0.453	34.880	27.984	11.86
240	0.455	0.445	34.883	27.987	11.62
250	0.465	0.454	34.888	27.990	11.35
260	0.461	0.450	34.890	27.992	11.14
270	0.495	0.484	34.896	27.995	10.96
280	0.490	0.478	34.899	27.998	10.65
290	0.478	0.465	34.900	27.999	10.50
300	0.443	0.431	34.901	28.002	10.21
310	0.418	0.405	34.902	28.005	10.00
320	0.391	0.377	34.903	28.007	9.80
330	0.363	0.349	34.903	28.009	9.58
340	0.325	0.310	34.904	28.011	9.32
350	0.306	0.291	34.905	28.013	9.13
360	0.285	0.270	34.904	28.014	9.03
370	0.255	0.240	34.905	28.016	8.81
380	0.220	0.204	34.906	28.019	8.51
390	0.174	0.158	34.906	28.022	8.22
400	0.135	0.118	34.906	28.024	7.96
410	0.112	0.095	34.905	28.025	7.86
420	0.107	0.090	34.905	28.025	7.85
430	0.099	0.081	34.906	28.026	7.73
440	0.080	0.062	34.907	28.028	7.56
450	0.063	0.044	34.908	28.029	7.39

B89.523					
depth	temp	theta	salnty	sig_th	delta
460	0.042	0.023	34.907	28.030	7.27
470	-0.009	-0.028	34.909	28.034	6.84
480	-0.022	-0.041	34.908	28.034	6.80
490	-0.041	-0.061	34.909	28.036	6.65
500	-0.049	-0.069	34.908	28.036	6.64
510	-0.063	-0.084	34.908	28.037	6.54
520	-0.082	-0.103	34.908	28.038	6.42
530	-0.100	-0.122	34.908	28.039	6.29
540	-0.133	-0.155	34.909	28.041	6.04
550	-0.145	-0.167	34.909	28.042	5.94
560	-0.161	-0.184	34.908	28.042	5.88
570	-0.178	-0.201	34.909	28.043	5.75
580	-0.192	-0.215	34.908	28.044	5.66
590	-0.210	-0.233	34.909	28.045	5.54
600	-0.225	-0.249	34.908	28.045	5.46
610	-0.247	-0.271	34.908	28.046	5.34
620	-0.269	-0.293	34.909	28.048	5.13
630	-0.283	-0.308	34.909	28.048	5.04
640	-0.304	-0.329	34.909	28.050	4.88
650	-0.315	-0.341	34.908	28.050	4.82
660	-0.323	-0.349	34.908	28.050	4.79
670	-0.335	-0.362	34.909	28.051	4.63
680	-0.342	-0.369	34.909	28.051	4.61
690	-0.352	-0.379	34.908	28.052	4.56
700	-0.370	-0.398	34.909	28.053	4.36
710	-0.386	-0.414	34.909	28.054	4.22
720	-0.396	-0.424	34.910	28.055	4.14
730	-0.407	-0.436	34.909	28.055	4.06
740	-0.421	-0.450	34.910	28.056	3.93
750	-0.426	-0.456	34.909	28.056	3.92
760	-0.436	-0.466	34.910	28.057	3.83
770	-0.452	-0.483	34.909	28.057	3.72
780	-0.466	-0.497	34.909	28.058	3.63
790	-0.485	-0.516	34.910	28.059	3.44
800	-0.504	-0.536	34.910	28.061	3.26
810	-0.514	-0.546	34.911	28.061	3.17
820	-0.527	-0.560	34.910	28.062	3.08
830	-0.545	-0.577	34.911	28.063	2.88
840	-0.552	-0.585	34.911	28.063	2.86
850	-0.561	-0.594	34.911	28.064	2.77
860	-0.570	-0.604	34.911	28.065	2.68
870	-0.576	-0.610	34.911	28.065	2.63
880	-0.583	-0.617	34.911	28.065	2.55
890	-0.592	-0.627	34.911	28.066	2.48
900	-0.598	-0.634	34.911	28.065	2.47
910	-0.604	-0.639	34.911	28.066	2.37
920	-0.613	-0.650	34.912	28.067	2.22
930	-0.627	-0.664	34.912	28.068	2.14
940	-0.635	-0.672	34.912	28.068	2.06
950	-0.639	-0.676	34.899	28.058	2.97
960	-0.648	-0.686	34.912	28.069	1.93
970	-0.660	-0.699	34.912	28.070	1.77
980	-0.664	-0.703	34.912	28.070	1.74
990	-0.675	-0.714	34.913	28.071	1.59
1000	-0.680	-0.720	34.913	28.071	1.57

B89.523					
depth	temp	theta	salnty	sig_th	delta
1010	-0.683	-0.723	34.912	28.071	1.56
1020	-0.694	-0.734	34.913	28.072	1.45
1030	-0.706	-0.747	34.913	28.072	1.31
1040	-0.714	-0.755	34.913	28.073	1.24
1050	-0.718	-0.759	34.913	28.073	1.19
1060	-0.733	-0.775	34.913	28.074	1.05
1070	-0.748	-0.790	34.914	28.075	0.89
1080	-0.767	-0.810	34.914	28.076	0.69
1090	-0.786	-0.829	34.914	28.077	0.53
1100	-0.790	-0.834	34.914	28.077	0.48
1110	-0.804	-0.848	34.915	28.078	0.32
1120	-0.804	-0.848	34.915	28.078	0.31
1130	-0.803	-0.848	34.915	28.078	0.29
1140	-0.803	-0.848	34.915	28.078	0.25

B89.524					
depth	temp	theta	salnty	sig_th	delta
5	4.650	4.650	34.308	27.166	89.05
10	4.656	4.655	34.309	27.167	89.11
15	4.658	4.657	34.310	27.167	89.14
20	4.660	4.659	34.310	27.167	89.15
25	4.661	4.659	34.314	27.170	88.91
30	4.661	4.659	34.314	27.170	89.02
35	4.250	4.248	34.367	27.257	80.77
40	2.623	2.620	34.487	27.509	56.79
45	0.971	0.969	34.480	27.630	45.21
50	0.443	0.441	34.486	27.667	41.64
55	1.077	1.074	34.585	27.707	37.94
60	1.294	1.291	34.642	27.738	35.09
65	0.796	0.793	34.658	27.784	30.62
70	1.258	1.255	34.714	27.798	29.36
75	1.376	1.372	34.767	27.832	26.19
80	1.413	1.409	34.785	27.844	25.09
85	1.580	1.576	34.825	27.864	23.29
90	1.565	1.561	34.835	27.874	22.40
95	1.441	1.436	34.850	27.895	20.39
100	1.393	1.388	34.854	27.901	19.77
110	1.268	1.263	34.865	27.919	18.09
120	1.169	1.163	34.868	27.929	17.19
130	1.068	1.062	34.878	27.943	15.82
140	1.013	1.007	34.878	27.947	15.47
150	0.919	0.912	34.884	27.958	14.43
160	0.872	0.864	34.882	27.959	14.28
170	0.833	0.825	34.882	27.963	14.00
180	0.821	0.813	34.883	27.964	13.91
190	0.818	0.809	34.886	27.966	13.69
200	0.759	0.750	34.885	27.969	13.39
210	0.760	0.751	34.887	27.971	13.23
220	0.736	0.726	34.888	27.974	13.00
230	0.690	0.680	34.890	27.978	12.57
240	0.666	0.655	34.893	27.982	12.23
250	0.645	0.634	34.894	27.984	12.00
260	0.591	0.580	34.897	27.989	11.49
270	0.547	0.535	34.898	27.994	11.09
280	0.518	0.506	34.899	27.996	10.85
290	0.506	0.493	34.899	27.996	10.81
300	0.468	0.455	34.899	27.999	10.58
310	0.455	0.442	34.899	28.000	10.45
320	0.419	0.406	34.900	28.003	10.19
330	0.398	0.384	34.901	28.005	9.97
340	0.367	0.352	34.903	28.008	9.65
350	0.352	0.337	34.902	28.009	9.60
360	0.346	0.331	34.902	28.008	9.62
370	0.311	0.296	34.902	28.011	9.38
380	0.262	0.246	34.904	28.015	8.91
390	0.218	0.202	34.906	28.019	8.53
400	0.203	0.187	34.904	28.019	8.52
410	0.179	0.162	34.905	28.021	8.30
420	0.139	0.122	34.906	28.024	7.97
430	0.133	0.115	34.906	28.024	7.95
440	0.110	0.092	34.906	28.026	7.78
450	0.095	0.077	34.906	28.026	7.74

B89.524					
depth	temp	theta	salnty	sig_th	delta
460	0.089	0.070	34.906	28.026	7.72
470	0.081	0.061	34.906	28.027	7.66
480	0.068	0.048	34.906	28.028	7.56
490	0.058	0.038	34.906	28.029	7.47
500	0.050	0.029	34.906	28.029	7.43
510	0.031	0.010	34.906	28.030	7.28
520	0.024	0.002	34.906	28.031	7.23
530	0.012	-0.010	34.906	28.031	7.16
540	-0.003	-0.025	34.907	28.032	7.04
550	-0.021	-0.043	34.907	28.034	6.86
560	-0.043	-0.066	34.908	28.035	6.69
570	-0.056	-0.079	34.908	28.036	6.59
580	-0.072	-0.096	34.908	28.037	6.50
590	-0.084	-0.108	34.908	28.038	6.41
600	-0.110	-0.134	34.908	28.039	6.22
610	-0.158	-0.182	34.909	28.043	5.79
620	-0.182	-0.207	34.909	28.044	5.67

B89.525					
depth	temp	theta	salnty	sig_th	delta
5	0.140	0.140	31.066	24.925	301.84
10	0.141	0.140	31.068	24.927	301.70
15	0.161	0.161	31.066	24.924	301.89
20	0.164	0.163	31.066	24.924	301.86
25	0.104	0.103	31.070	24.930	301.30
30	-0.934	-0.935	31.790	25.550	242.20
35	-1.383	-1.384	33.063	26.596	142.90
40	-1.515	-1.516	33.117	26.643	138.33
45	-1.535	-1.536	33.336	26.821	121.43
50	-1.514	-1.516	33.482	26.940	110.18
55	-1.497	-1.498	33.614	27.046	100.05
60	-1.454	-1.456	33.737	27.145	90.71
65	-1.416	-1.418	33.810	27.203	85.18
70	-1.577	-1.579	33.919	27.296	76.28
75	-1.544	-1.545	33.991	27.354	70.83
80	-1.518	-1.520	34.036	27.389	67.45
85	-1.512	-1.514	34.058	27.407	65.71
90	-1.507	-1.509	34.088	27.432	63.37
95	-1.500	-1.502	34.119	27.456	61.01
100	-1.470	-1.472	34.150	27.480	58.73
110	-1.361	-1.363	34.203	27.521	54.91
120	-1.349	-1.352	34.272	27.576	49.61
130	-1.234	-1.237	34.314	27.606	46.75
140	-1.039	-1.043	34.391	27.661	41.62
150	-1.069	-1.073	34.414	27.681	39.70
160	-0.885	-0.889	34.449	27.702	37.73
170	-0.742	-0.747	34.490	27.730	35.19
180	-0.565	-0.571	34.524	27.750	33.35
190	-0.352	-0.359	34.557	27.767	31.84
200	0.911	0.902	34.705	27.815	28.04
210	1.403	1.392	34.785	27.845	25.46
220	1.316	1.305	34.814	27.875	22.62
230	1.394	1.382	34.857	27.904	20.04
240	1.366	1.354	34.864	27.911	19.34
250	1.353	1.341	34.875	27.921	18.44
260	1.421	1.408	34.894	27.932	17.53
270	1.397	1.383	34.896	27.935	17.22
280	1.336	1.322	34.899	27.942	16.53
290	1.291	1.277	34.902	27.948	16.06
300	1.228	1.213	34.900	27.951	15.73
310	1.174	1.159	34.899	27.953	15.49
320	1.109	1.094	34.902	27.960	14.79
330	1.024	1.008	34.901	27.965	14.30
340	1.031	1.014	34.903	27.967	14.20
350	1.042	1.025	34.907	27.969	14.03
360	1.035	1.017	34.908	27.971	13.87
370	0.980	0.963	34.913	27.978	13.16
380	0.917	0.900	34.915	27.984	12.54
390	0.890	0.871	34.917	27.987	12.23
400	0.860	0.841	34.919	27.991	11.90
410	0.837	0.818	34.916	27.990	11.95
420	0.825	0.805	34.918	27.992	11.76
430	0.808	0.788	34.919	27.994	11.57
440	0.794	0.774	34.921	27.997	11.37
450	0.812	0.791	34.925	27.999	11.19

B89.525					
depth	temp	theta	salnty	sig_th	delta
460	0.758	0.736	34.924	28.001	10.92
470	0.743	0.721	34.923	28.002	10.88
480	0.723	0.701	34.923	28.003	10.74
490	0.716	0.693	34.923	28.004	10.70
500	0.708	0.685	34.923	28.004	10.68
510	0.698	0.675	34.923	28.005	10.62
520	0.683	0.659	34.923	28.006	10.49
530	0.650	0.625	34.924	28.008	10.25
540	0.620	0.595	34.924	28.011	10.02
550	0.571	0.545	34.922	28.012	9.79
560	0.552	0.527	34.920	28.012	9.86
570	0.525	0.499	34.920	28.014	9.65
580	0.500	0.474	34.920	28.015	9.53
590	0.477	0.450	34.919	28.016	9.40
600	0.447	0.420	34.919	28.017	9.20
610	0.418	0.390	34.918	28.018	9.07
620	0.393	0.365	34.918	28.019	8.95
630	0.346	0.318	34.917	28.022	8.68
640	0.327	0.299	34.917	28.022	8.58
650	0.316	0.287	34.914	28.021	8.70
660	0.249	0.220	34.914	28.025	8.22
670	0.180	0.151	34.915	28.029	7.70
680	0.109	0.080	34.914	28.033	7.23
690	0.093	0.063	34.912	28.032	7.24
700	0.074	0.044	34.911	28.032	7.21
710	0.056	0.025	34.911	28.033	7.12
720	0.048	0.017	34.912	28.034	6.99
730	0.025	-0.006	34.911	28.035	6.88
740	0.015	-0.017	34.911	28.036	6.78
750	0.001	-0.032	34.910	28.035	6.81
760	-0.009	-0.041	34.910	28.035	6.75
770	-0.017	-0.050	34.910	28.037	6.62
780	-0.026	-0.060	34.910	28.037	6.57
790	-0.036	-0.070	34.911	28.038	6.47
800	-0.052	-0.086	34.909	28.038	6.46
810	-0.096	-0.130	34.910	28.041	6.06
820	-0.097	-0.132	34.911	28.041	6.03

B89.526					
depth	temp	theta	salnty	sig_th	delta
5	0.890	0.890	31.418	25.172	278.38
10	0.888	0.887	31.417	25.171	278.48
15	0.997	0.997	31.625	25.332	263.14
20	-0.019	-0.020	32.412	26.018	197.88
25	-1.477	-1.477	33.409	26.879	116.08
30	-1.456	-1.457	33.568	27.007	103.91
35	-1.453	-1.454	33.665	27.086	96.43
40	-1.374	-1.375	33.835	27.222	83.54
45	-1.387	-1.388	33.946	27.312	74.93
50	-1.321	-1.322	34.030	27.379	68.65
55	-1.458	-1.459	34.107	27.445	62.28
60	-1.470	-1.472	34.137	27.470	59.94
65	-1.473	-1.474	34.158	27.487	58.29
70	-1.422	-1.423	34.189	27.511	56.04
75	-1.060	-1.062	34.228	27.530	54.22
80	-0.564	-0.566	34.307	27.574	50.23
85	0.261	0.258	34.397	27.606	47.37
90	0.446	0.443	34.485	27.666	41.73
95	0.538	0.534	34.527	27.695	39.07
100	0.956	0.951	34.604	27.730	35.81
110	0.899	0.894	34.654	27.775	31.64
120	1.156	1.151	34.705	27.798	29.49
130	1.545	1.539	34.764	27.818	27.79
140	2.021	2.014	34.845	27.846	25.34
150	2.185	2.177	34.875	27.858	24.42
160	2.106	2.097	34.893	27.878	22.50
170	2.030	2.020	34.902	27.891	21.28
180	2.022	2.012	34.906	27.896	20.92
190	1.858	1.848	34.908	27.910	19.51
200	1.602	1.592	34.899	27.923	18.26
210	1.534	1.523	34.892	27.922	18.34
220	1.398	1.387	34.891	27.931	17.42
230	1.326	1.314	34.891	27.936	16.97
240	1.310	1.299	34.889	27.936	17.02
250	1.256	1.244	34.889	27.940	16.64
260	1.223	1.210	34.890	27.943	16.37
270	1.035	1.022	34.888	27.954	15.21
280	0.977	0.964	34.883	27.954	15.18
290	0.920	0.907	34.882	27.957	14.89
300	0.855	0.841	34.879	27.959	14.68
310	0.847	0.832	34.881	27.961	14.51
320	0.870	0.855	34.885	27.963	14.37
330	0.913	0.898	34.893	27.966	14.10
340	0.958	0.942	34.901	27.970	13.81
350	1.013	0.997	34.910	27.973	13.58
360	0.999	0.982	34.913	27.977	13.25
370	0.978	0.960	34.917	27.982	12.82
380	0.965	0.947	34.918	27.983	12.67
390	0.972	0.953	34.921	27.985	12.55
400	0.951	0.931	34.927	27.991	11.98
410	0.927	0.907	34.927	27.993	11.82
420	0.909	0.890	34.928	27.995	11.64
430	0.879	0.859	34.929	27.998	11.31
440	0.875	0.854	34.931	28.000	11.20
450	0.852	0.831	34.932	28.002	10.94

B89.526					
depth	temp	theta	salnty	sig_th	delta
460	0.800	0.778	34.931	28.005	10.64
470	0.814	0.791	34.934	28.006	10.56
480	0.783	0.760	34.937	28.010	10.16
490	0.776	0.753	34.937	28.011	10.12
500	0.755	0.732	34.937	28.013	9.94
510	0.731	0.707	34.937	28.014	9.83
520	0.705	0.681	34.936	28.015	9.67
530	0.670	0.645	34.934	28.016	9.62
540	0.651	0.626	34.933	28.016	9.56
550	0.603	0.578	34.930	28.017	9.44
560	0.553	0.527	34.927	28.017	9.33
570	0.522	0.496	34.924	28.017	9.32
580	0.455	0.428	34.924	28.021	8.89
590	0.401	0.375	34.922	28.022	8.68
600	0.377	0.350	34.921	28.023	8.57
610	0.354	0.327	34.920	28.023	8.52
620	0.283	0.256	34.918	28.026	8.15
630	0.238	0.210	34.914	28.026	8.10
640	0.196	0.168	34.915	28.028	7.79
650	0.173	0.145	34.913	28.029	7.72
660	0.151	0.122	34.913	28.029	7.60
670	0.126	0.097	34.913	28.030	7.47
680	0.087	0.058	34.912	28.032	7.23
690	0.067	0.038	34.912	28.033	7.10
700	0.034	0.004	34.911	28.034	6.92
710	0.009	-0.022	34.910	28.035	6.82
720	-0.017	-0.048	34.910	28.036	6.67
730	-0.034	-0.065	34.911	28.038	6.49
740	-0.048	-0.080	34.908	28.036	6.58
750	-0.096	-0.128	34.909	28.040	6.14
760	-0.106	-0.138	34.909	28.040	6.12
770	-0.139	-0.171	34.909	28.042	5.87
780	-0.155	-0.187	34.909	28.043	5.77
790	-0.176	-0.209	34.908	28.043	5.65
800	-0.191	-0.225	34.907	28.043	5.64
810	-0.208	-0.242	34.909	28.045	5.38
820	-0.215	-0.250	34.909	28.046	5.31
830	-0.233	-0.268	34.910	28.048	5.09
840	-0.241	-0.276	34.909	28.047	5.09
850	-0.256	-0.291	34.909	28.048	5.00
860	-0.276	-0.312	34.908	28.049	4.89
870	-0.289	-0.325	34.909	28.049	4.79
880	-0.325	-0.361	34.909	28.051	4.50
890	-0.352	-0.389	34.907	28.051	4.47
900	-0.368	-0.406	34.907	28.052	4.35
910	-0.378	-0.415	34.906	28.052	4.31
920	-0.377	-0.415	34.907	28.052	4.26
930	-0.384	-0.423	34.907	28.053	4.19
940	-0.386	-0.425	34.907	28.053	4.12
950	-0.391	-0.430	34.909	28.054	3.98
960	-0.392	-0.432	34.908	28.054	4.00
970	-0.399	-0.439	34.909	28.055	3.85
980	-0.405	-0.446	34.909	28.056	3.80
990	-0.412	-0.453	34.909	28.056	3.75
1000	-0.434	-0.476	34.909	28.057	3.58

B89.526					
depth	temp	theta	salnty	sig_th	delta
1010	-0.447	-0.489	34.909	28.057	3.50
1020	-0.465	-0.507	34.908	28.057	3.44
1030	-0.472	-0.515	34.908	28.058	3.33
1040	-0.464	-0.508	34.911	28.060	3.19
1050	-0.466	-0.510	34.910	28.059	3.22
1060	-0.473	-0.518	34.910	28.060	3.11
1070	-0.474	-0.519	34.911	28.061	3.04
1080	-0.478	-0.524	34.911	28.061	3.00
1090	-0.491	-0.536	34.912	28.062	2.83
1100	-0.487	-0.533	34.913	28.063	2.78
1110	-0.497	-0.544	34.913	28.063	2.71
1120	-0.499	-0.546	34.913	28.063	2.64
1130	-0.509	-0.557	34.913	28.064	2.56
1140	-0.519	-0.567	34.912	28.063	2.58
1150	-0.529	-0.578	34.913	28.065	2.41
1160	-0.535	-0.584	34.914	28.066	2.27
1170	-0.537	-0.587	34.914	28.066	2.20
1180	-0.560	-0.610	34.914	28.067	2.04
1190	-0.583	-0.633	34.913	28.068	1.87
1200	-0.593	-0.643	34.913	28.067	1.86
1210	-0.603	-0.653	34.913	28.068	1.74
1220	-0.616	-0.667	34.913	28.069	1.59
1230	-0.618	-0.670	34.913	28.069	1.55
1240	-0.644	-0.696	34.912	28.069	1.44
1250	-0.648	-0.701	34.913	28.071	1.29
1260	-0.650	-0.703	34.914	28.071	1.23
1270	-0.648	-0.701	34.915	28.072	1.11
1280	-0.658	-0.712	34.915	28.073	1.03
1290	-0.665	-0.719	34.915	28.072	1.01
1300	-0.672	-0.727	34.915	28.074	0.86
1310	-0.686	-0.741	34.915	28.074	0.77
1320	-0.702	-0.757	34.915	28.074	0.66
1330	-0.709	-0.765	34.915	28.074	0.59
1340	-0.711	-0.767	34.914	28.074	0.57
1350	-0.719	-0.776	34.915	28.075	0.45
1360	-0.733	-0.790	34.916	28.077	0.23
1370	-0.736	-0.794	34.915	28.076	0.24
1380	-0.739	-0.798	34.915	28.076	0.26
1390	-0.755	-0.815	34.916	28.078	-0.02
1400	-0.756	-0.815	34.915	28.077	0.04
1410	-0.756	-0.816	34.916	28.078	-0.04

B89.527					
depth	temp	theta	salnty	sig_th	delta
5	-0.441	-0.441	31.873	25.600	237.64
10	-0.437	-0.437	31.865	25.594	238.23
15	-0.435	-0.436	31.863	25.592	238.32
20	-0.439	-0.439	31.869	25.597	237.84
25	-0.447	-0.447	31.879	25.606	237.01
30	-0.708	-0.709	31.950	25.673	230.59
35	-1.322	-1.323	32.334	26.002	199.20
40	-1.688	-1.689	32.742	26.343	166.80
45	-1.734	-1.735	32.895	26.468	154.90
50	-1.719	-1.720	32.963	26.523	149.64
55	-1.707	-1.708	33.108	26.640	138.48
60	-1.718	-1.719	33.280	26.780	125.18
65	-1.720	-1.721	33.386	26.867	116.96
70	-1.733	-1.734	33.442	26.913	112.54
75	-1.728	-1.729	33.495	26.955	108.46
80	-1.720	-1.722	33.554	27.004	103.87
85	-1.709	-1.710	33.639	27.072	97.33
90	-1.707	-1.709	33.698	27.120	92.76
95	-1.685	-1.687	33.799	27.201	85.08
100	-1.676	-1.678	33.855	27.247	80.74
110	-1.665	-1.667	33.956	27.329	72.94
120	-1.635	-1.637	34.048	27.403	65.90
130	-1.663	-1.666	34.100	27.446	61.75
140	-1.653	-1.657	34.178	27.509	55.74
150	-1.636	-1.639	34.216	27.539	52.84
160	-1.347	-1.351	34.282	27.584	48.68
170	-1.058	-1.063	34.340	27.621	45.30
180	-0.444	-0.450	34.431	27.669	41.07
190	0.049	0.042	34.521	27.718	36.71
200	0.673	0.665	34.621	27.762	32.86
210	0.477	0.469	34.650	27.797	29.47
220	0.051	0.042	34.654	27.825	26.59
230	-0.063	-0.071	34.680	27.852	23.99
240	0.117	0.107	34.759	27.906	18.98
250	0.117	0.107	34.760	27.907	18.91

B89.528					
depth	temp	theta	salnty	sig_th	delta
5	-0.286	-0.286	31.353	25.174	278.15
10	-0.285	-0.286	31.356	25.177	277.89
15	-0.286	-0.287	31.358	25.178	277.72
20	-0.285	-0.285	31.360	25.180	277.52
25	-0.286	-0.287	31.377	25.194	276.14
30	-1.254	-1.255	32.297	25.970	202.30
35	-1.643	-1.644	32.504	26.148	185.30
40	-1.645	-1.646	32.617	26.240	176.58
45	-1.681	-1.681	32.721	26.325	168.41
50	-1.627	-1.628	32.850	26.429	158.54
55	-1.684	-1.685	32.931	26.496	152.18
60	-1.717	-1.718	33.078	26.616	140.71
65	-1.698	-1.699	33.187	26.704	132.33
70	-1.716	-1.718	33.332	26.823	121.03
75	-1.716	-1.718	33.452	26.920	111.79
80	-1.701	-1.703	33.564	27.011	103.17
85	-1.693	-1.695	33.636	27.069	97.65
90	-1.687	-1.689	33.704	27.124	92.41
95	-1.671	-1.673	33.755	27.165	88.47
100	-1.659	-1.662	33.804	27.205	84.69
110	-1.665	-1.668	33.902	27.285	77.12
120	-1.647	-1.649	33.998	27.363	69.68
130	-1.600	-1.603	34.103	27.446	61.72
140	-1.569	-1.572	34.146	27.480	58.49
150	-1.553	-1.556	34.168	27.498	56.80
160	-1.380	-1.384	34.243	27.553	51.57
170	-1.401	-1.405	34.277	27.582	48.83
180	-1.488	-1.492	34.329	27.627	44.46
190	-1.379	-1.384	34.357	27.646	42.70
200	-1.445	-1.450	34.389	27.674	39.98
210	-1.389	-1.394	34.401	27.682	39.20
220	-1.259	-1.265	34.427	27.698	37.67
230	-1.176	-1.182	34.456	27.719	35.71
240	-1.122	-1.129	34.472	27.730	34.68
250	-1.068	-1.075	34.499	27.750	32.79
260	-0.945	-0.953	34.519	27.761	31.80
270	-0.681	-0.690	34.565	27.788	29.51
280	-0.458	-0.467	34.622	27.825	26.20
290	-0.353	-0.364	34.645	27.838	24.98
300	-0.283	-0.294	34.665	27.851	23.82
310	-0.190	-0.201	34.688	27.865	22.59
320	-0.074	-0.087	34.712	27.878	21.43
330	0.092	0.079	34.746	27.897	19.86
340	0.199	0.185	34.773	27.913	18.48
350	0.422	0.407	34.832	27.947	15.42
360	0.454	0.438	34.848	27.959	14.41
370	0.462	0.446	34.853	27.962	14.08
380	0.465	0.449	34.854	27.963	14.02

B89.529					
depth	temp	theta	salnty	sig_th	delta
5	-1.382	-1.382	30.236	24.302	361.21
10	-1.382	-1.383	30.240	24.305	360.86
15	-1.292	-1.292	30.429	24.457	346.35
20	-1.336	-1.336	30.660	24.645	328.40
25	-1.216	-1.216	30.941	24.870	306.93
30	-1.056	-1.056	31.570	25.376	258.77
35	-1.375	-1.375	32.383	26.043	195.32
40	-1.437	-1.438	32.410	26.067	192.99
45	-1.632	-1.633	32.514	26.156	184.48
50	-1.672	-1.673	32.539	26.177	182.44
55	-1.712	-1.713	32.567	26.201	180.12
60	-1.723	-1.724	32.591	26.221	178.18
65	-1.733	-1.734	32.625	26.248	175.55
70	-1.742	-1.743	32.677	26.291	171.45
75	-1.749	-1.750	32.729	26.333	167.38
80	-1.744	-1.746	32.788	26.381	162.81
85	-1.732	-1.733	32.864	26.443	156.96
90	-1.738	-1.739	32.903	26.475	153.88
95	-1.743	-1.745	32.998	26.552	146.50
100	-1.744	-1.746	33.066	26.607	141.22
110	-1.744	-1.746	33.265	26.769	125.85
120	-1.750	-1.753	33.367	26.852	117.90
130	-1.715	-1.718	33.552	27.001	103.74
140	-1.677	-1.680	33.690	27.112	93.19
150	-1.658	-1.662	33.795	27.197	85.09
160	-1.647	-1.651	33.850	27.242	80.80
170	-1.633	-1.637	33.978	27.346	70.96
180	-1.635	-1.639	34.047	27.401	65.66
190	-1.640	-1.644	34.081	27.430	62.91
200	-1.616	-1.621	34.174	27.504	55.84
210	-1.583	-1.588	34.234	27.552	51.28
220	-1.532	-1.537	34.277	27.586	48.11
230	-1.504	-1.510	34.304	27.607	46.08
240	-1.416	-1.422	34.338	27.631	43.79
250	-1.345	-1.352	34.371	27.656	41.43
260	-1.202	-1.210	34.410	27.683	38.96
270	-0.919	-0.928	34.482	27.730	34.71
280	-0.733	-0.742	34.533	27.765	31.60
290	-0.632	-0.642	34.576	27.795	28.85
300	-0.449	-0.459	34.603	27.809	27.64
310	-0.358	-0.369	34.625	27.822	26.49
320	-0.262	-0.274	34.644	27.833	25.53
330	-0.259	-0.271	34.668	27.852	23.74
340	-0.194	-0.207	34.684	27.862	22.85
350	-0.163	-0.177	34.691	27.866	22.46
360	-0.103	-0.117	34.704	27.873	21.85
370	0.014	-0.001	34.726	27.885	20.88
380	0.074	0.059	34.743	27.896	19.94
390	0.181	0.165	34.769	27.910	18.67
400	0.243	0.226	34.779	27.916	18.25
410	0.265	0.248	34.786	27.920	17.91
420	0.352	0.334	34.803	27.929	17.15
430	0.372	0.354	34.812	27.935	16.66
440	0.393	0.374	34.817	27.937	16.43
450	0.413	0.393	34.822	27.940	16.19

B89.529					
depth	temp	theta	salnty	sig_th	delta
460	0.438	0.417	34.831	27.946	15.70
470	0.452	0.431	34.837	27.950	15.35
480	0.456	0.434	34.838	27.951	15.26
490	0.457	0.435	34.839	27.951	15.26
500	0.459	0.436	34.839	27.952	15.26

B89.530					
depth	temp	theta	salnty	sig_th	delta
5	1.126	1.126	32.134	25.734	224.99
10	1.127	1.127	32.134	25.734	224.98
15	1.130	1.130	32.138	25.737	224.70
20	1.141	1.140	32.165	25.758	222.67
25	1.168	1.167	32.248	25.823	216.46
30	0.080	0.079	32.669	26.221	178.61
35	-1.467	-1.468	33.430	26.896	114.41
40	-1.440	-1.440	33.595	27.029	101.77
45	-1.412	-1.413	33.679	27.097	95.35
50	-1.489	-1.490	33.758	27.163	89.02
55	-1.350	-1.351	33.846	27.230	82.71
60	-1.288	-1.290	33.937	27.302	75.89
65	-1.504	-1.505	34.032	27.386	67.83
70	-1.515	-1.516	34.054	27.404	66.07
75	-1.514	-1.516	34.089	27.432	63.42
80	-1.508	-1.509	34.119	27.457	61.04
85	-1.420	-1.422	34.155	27.483	58.56
90	-1.308	-1.310	34.204	27.519	55.14
95	-0.611	-0.614	34.285	27.558	51.64
100	-0.898	-0.901	34.311	27.591	48.40
110	-0.312	-0.315	34.400	27.637	44.20
120	-0.294	-0.299	34.454	27.680	40.14
130	-0.001	-0.005	34.529	27.727	35.86
140	1.093	1.086	34.660	27.767	32.52
150	1.497	1.490	34.735	27.799	29.70
160	1.755	1.746	34.803	27.834	26.56
170	1.692	1.683	34.830	27.860	24.09
180	1.767	1.757	34.853	27.873	22.90
190	1.869	1.859	34.872	27.881	22.32
200	1.865	1.855	34.878	27.885	21.91
210	1.706	1.695	34.883	27.902	20.31
220	1.635	1.623	34.882	27.906	19.90
230	1.473	1.461	34.880	27.917	18.87
240	1.245	1.234	34.871	27.926	17.86
250	1.296	1.284	34.880	27.930	17.60
260	1.230	1.218	34.889	27.941	16.50
270	1.248	1.235	34.894	27.944	16.29
280	1.173	1.160	34.893	27.949	15.81
290	1.122	1.108	34.893	27.952	15.45
300	1.112	1.098	34.897	27.956	15.11
310	1.093	1.078	34.900	27.960	14.78
320	1.052	1.037	34.901	27.963	14.47
330	1.047	1.031	34.902	27.965	14.36
340	1.016	0.999	34.904	27.968	14.04
350	1.006	0.989	34.905	27.970	13.92
360	0.982	0.965	34.907	27.973	13.60
370	0.973	0.955	34.907	27.974	13.56
380	0.946	0.928	34.909	27.977	13.23
390	0.934	0.915	34.909	27.978	13.15
400	0.913	0.894	34.910	27.980	12.96
410	0.897	0.878	34.910	27.982	12.83
420	0.883	0.863	34.910	27.982	12.78
430	0.875	0.854	34.913	27.985	12.53
440	0.866	0.845	34.914	27.986	12.42
450	0.861	0.840	34.914	27.987	12.38

B89.530					
depth	temp	theta	salnty	sig_th	delta
460	0.861	0.839	34.917	27.990	12.15
470	0.849	0.827	34.919	27.992	11.92
480	0.836	0.814	34.921	27.994	11.74
490	0.803	0.780	34.921	27.997	11.47
500	0.782	0.758	34.921	27.998	11.34
510	0.769	0.745	34.920	27.998	11.34
520	0.768	0.743	34.922	27.999	11.26
530	0.755	0.730	34.921	28.000	11.22
540	0.724	0.698	34.922	28.002	10.97
550	0.710	0.684	34.922	28.003	10.87
560	0.695	0.669	34.920	28.003	10.87
570	0.692	0.665	34.922	28.005	10.73
580	0.679	0.652	34.923	28.006	10.62
590	0.633	0.606	34.923	28.009	10.24
600	0.609	0.581	34.921	28.009	10.24
610	0.587	0.559	34.920	28.010	10.16
620	0.564	0.535	34.921	28.012	9.98
630	0.539	0.510	34.920	28.013	9.84
640	0.480	0.450	34.920	28.016	9.41
650	0.437	0.407	34.918	28.017	9.30
660	0.379	0.349	34.917	28.020	8.91
670	0.357	0.327	34.913	28.018	9.07
680	0.306	0.275	34.913	28.021	8.72
690	0.278	0.247	34.910	28.020	8.75
700	0.247	0.216	34.909	28.021	8.61
710	0.211	0.180	34.910	28.023	8.31
720	0.166	0.134	34.909	28.026	8.00
730	0.157	0.125	34.908	28.025	8.04
740	0.152	0.119	34.907	28.025	8.06
750	0.147	0.114	34.907	28.025	8.03
760	0.135	0.101	34.906	28.025	8.01
770	0.133	0.099	34.907	28.026	7.96
780	0.115	0.081	34.907	28.027	7.84
790	0.101	0.066	34.906	28.027	7.80
800	0.094	0.059	34.909	28.029	7.56
810	0.087	0.051	34.906	28.028	7.69
820	0.078	0.042	34.907	28.029	7.60
830	0.073	0.036	34.906	28.029	7.59
840	0.070	0.033	34.907	28.029	7.53
850	0.060	0.022	34.906	28.029	7.50

B89.531					
depth	temp	theta	salnty	sig_th	delta
5	0.967	0.967	33.780	27.066	98.50
10	0.967	0.966	33.776	27.063	98.81
15	0.966	0.965	33.775	27.063	98.85
20	0.967	0.966	33.773	27.061	99.03
25	0.972	0.971	33.775	27.062	98.91
30	0.982	0.980	33.777	27.064	98.79
35	0.986	0.985	33.779	27.064	98.73
40	1.208	1.206	33.822	27.085	96.84
45	1.378	1.376	33.970	27.192	86.68
50	1.063	1.061	34.036	27.267	79.59
55	1.116	1.114	34.104	27.318	74.78
60	0.836	0.833	34.257	27.459	61.39
65	-0.600	-0.601	34.218	27.504	56.88
70	-0.545	-0.547	34.271	27.544	53.09
75	-0.601	-0.603	34.326	27.591	48.58
80	-0.460	-0.463	34.456	27.690	39.28
85	-0.510	-0.512	34.468	27.702	38.10
90	-0.291	-0.294	34.501	27.718	36.62
95	-0.350	-0.353	34.526	27.741	34.39
100	-0.033	-0.037	34.578	27.768	31.99
110	0.675	0.671	34.660	27.793	29.80
120	1.131	1.126	34.737	27.825	26.95
130	1.050	1.044	34.756	27.847	24.93
140	1.530	1.523	34.823	27.866	23.27
150	1.103	1.096	34.825	27.898	20.12
160	0.982	0.975	34.815	27.898	20.10
170	1.430	1.421	34.869	27.911	19.13
180	1.270	1.261	34.865	27.919	18.35
190	1.215	1.206	34.861	27.920	18.29
200	1.280	1.270	34.883	27.933	17.10
210	1.026	1.016	34.881	27.949	15.47
220	0.801	0.791	34.869	27.954	14.88
230	0.782	0.772	34.870	27.956	14.69
240	0.703	0.692	34.866	27.958	14.54
250	0.700	0.688	34.870	27.961	14.22
260	0.774	0.762	34.881	27.966	13.85
270	0.771	0.759	34.885	27.969	13.59
280	0.808	0.795	34.892	27.972	13.33
290	0.819	0.806	34.897	27.976	13.03
300	0.823	0.809	34.902	27.979	12.74
310	0.848	0.834	34.908	27.983	12.44
320	0.855	0.840	34.912	27.986	12.19
330	0.860	0.844	34.915	27.988	12.02
340	0.851	0.835	34.919	27.991	11.69
350	0.849	0.832	34.921	27.993	11.58
360	0.784	0.767	34.920	27.997	11.19
370	0.860	0.843	34.926	27.996	11.31
380	0.824	0.806	34.926	27.999	11.04
390	0.765	0.747	34.924	28.001	10.81
400	0.723	0.705	34.924	28.003	10.56
410	0.683	0.665	34.923	28.005	10.36
420	0.646	0.627	34.923	28.008	10.12
430	0.607	0.587	34.920	28.008	10.08
440	0.585	0.566	34.920	28.009	9.97
450	0.570	0.550	34.920	28.010	9.86

B89.531					
depth	temp	theta	salnty	sig_th	delta
460	0.550	0.529	34.921	28.012	9.62
470	0.499	0.478	34.919	28.013	9.47
480	0.454	0.433	34.917	28.015	9.28
490	0.430	0.408	34.916	28.015	9.24
500	0.421	0.399	34.915	28.015	9.25
510	0.366	0.344	34.915	28.018	8.89
520	0.337	0.314	34.914	28.019	8.75
530	0.306	0.283	34.913	28.020	8.62
540	0.298	0.274	34.912	28.020	8.62
550	0.266	0.242	34.912	28.022	8.42
560	0.231	0.207	34.911	28.023	8.30
570	0.203	0.179	34.911	28.024	8.11
580	0.161	0.136	34.910	28.026	7.89
590	0.124	0.099	34.909	28.028	7.69
600	0.101	0.076	34.909	28.029	7.57
610	0.068	0.042	34.908	28.030	7.38
620	0.049	0.023	34.907	28.030	7.35
630	0.045	0.019	34.908	28.031	7.26
640	0.019	-0.008	34.906	28.031	7.20
650	-0.006	-0.034	34.908	28.034	6.92
660	-0.032	-0.059	34.908	28.035	6.74
670	-0.057	-0.085	34.907	28.036	6.60
680	-0.082	-0.110	34.907	28.037	6.43
690	-0.110	-0.139	34.907	28.039	6.25
700	-0.136	-0.165	34.907	28.040	6.11
710	-0.153	-0.183	34.905	28.039	6.09
720	-0.172	-0.202	34.906	28.041	5.93
730	-0.211	-0.241	34.904	28.042	5.74
740	-0.232	-0.262	34.904	28.043	5.62
750	-0.245	-0.276	34.904	28.043	5.51
760	-0.271	-0.302	34.905	28.045	5.29
770	-0.286	-0.318	34.904	28.045	5.22
780	-0.289	-0.321	34.903	28.045	5.25
790	-0.311	-0.343	34.903	28.046	5.10
800	-0.321	-0.354	34.904	28.047	4.96
810	-0.333	-0.366	34.904	28.048	4.88
820	-0.344	-0.378	34.904	28.048	4.80
830	-0.356	-0.390	34.903	28.048	4.76
840	-0.362	-0.397	34.903	28.049	4.69
850	-0.368	-0.403	34.904	28.049	4.63
860	-0.366	-0.401	34.903	28.049	4.65
870	-0.386	-0.422	34.904	28.050	4.45
880	-0.397	-0.433	34.903	28.050	4.43
890	-0.411	-0.448	34.904	28.051	4.26
900	-0.418	-0.455	34.904	28.052	4.19
910	-0.424	-0.461	34.904	28.052	4.17
920	-0.437	-0.474	34.904	28.053	4.04
930	-0.446	-0.484	34.904	28.053	3.99
940	-0.451	-0.490	34.904	28.054	3.89
950	-0.462	-0.501	34.904	28.054	3.83
960	-0.470	-0.509	34.904	28.054	3.75
970	-0.484	-0.524	34.904	28.055	3.67
980	-0.476	-0.517	34.906	28.056	3.54
990	-0.479	-0.519	34.906	28.057	3.49
1000	-0.489	-0.530	34.907	28.058	3.36

B89.531					
depth	temp	theta	salnty	sig_th	delta
1010	-0.498	-0.539	34.907	28.058	3.29
1020	-0.508	-0.550	34.906	28.058	3.22
1030	-0.515	-0.558	34.907	28.059	3.11
1040	-0.524	-0.567	34.907	28.060	3.01
1050	-0.530	-0.574	34.907	28.060	2.98
1060	-0.535	-0.578	34.907	28.060	2.91
1070	-0.540	-0.584	34.908	28.061	2.79
1080	-0.551	-0.596	34.908	28.061	2.72
1090	-0.554	-0.599	34.908	28.062	2.62
1100	-0.561	-0.607	34.910	28.064	2.46
1110	-0.571	-0.617	34.909	28.064	2.40
1120	-0.571	-0.617	34.909	28.063	2.43
1130	-0.581	-0.628	34.910	28.065	2.25
1140	-0.589	-0.636	34.910	28.065	2.16
1150	-0.593	-0.641	34.910	28.066	2.11
1160	-0.599	-0.648	34.910	28.066	2.03
1170	-0.608	-0.657	34.910	28.066	1.95
1180	-0.614	-0.663	34.911	28.067	1.83
1190	-0.619	-0.668	34.909	28.066	1.95
1200	-0.631	-0.682	34.910	28.067	1.76
1210	-0.636	-0.687	34.911	28.068	1.62
1220	-0.642	-0.693	34.911	28.069	1.54
1230	-0.651	-0.703	34.911	28.069	1.46
1240	-0.660	-0.712	34.911	28.069	1.40
1250	-0.662	-0.715	34.912	28.070	1.27
1260	-0.672	-0.725	34.913	28.072	1.11
1270	-0.678	-0.731	34.912	28.071	1.14
1280	-0.685	-0.739	34.912	28.071	1.07
1290	-0.692	-0.746	34.912	28.072	0.97
1300	-0.693	-0.748	34.911	28.071	1.02
1310	-0.691	-0.746	34.912	28.071	0.98
1320	-0.710	-0.765	34.912	28.073	0.78
1330	-0.714	-0.770	34.912	28.072	0.77
1340	-0.724	-0.780	34.912	28.073	0.63
1350	-0.728	-0.785	34.912	28.074	0.56
1360	-0.734	-0.792	34.913	28.075	0.42
1370	-0.740	-0.798	34.912	28.074	0.47
1380	-0.745	-0.803	34.912	28.074	0.38
1390	-0.747	-0.806	34.913	28.075	0.32
1400	-0.751	-0.811	34.913	28.075	0.27
1410	-0.755	-0.815	34.913	28.075	0.21
1420	-0.761	-0.822	34.912	28.075	0.21
1430	-0.763	-0.825	34.912	28.075	0.12
1440	-0.766	-0.827	34.911	28.075	0.16
1450	-0.770	-0.832	34.912	28.076	0.04
1460	-0.776	-0.839	34.913	28.076	-0.07
1470	-0.781	-0.844	34.911	28.075	0.02
1480	-0.786	-0.850	34.911	28.076	-0.09
1490	-0.790	-0.854	34.912	28.076	-0.18
1500	-0.790	-0.854	34.912	28.076	-0.20
1510	-0.794	-0.859	34.912	28.077	-0.27
1520	-0.797	-0.863	34.912	28.076	-0.29
1530	-0.799	-0.866	34.913	28.077	-0.38
1540	-0.802	-0.869	34.912	28.077	-0.39
1550	-0.805	-0.873	34.912	28.077	-0.41

B89.531					
depth	temp	theta	salnty	sig_th	delta
1560	-0.810	-0.878	34.913	28.078	-0.55
1570	-0.812	-0.881	34.913	28.078	-0.59
1580	-0.816	-0.885	34.912	28.077	-0.56
1590	-0.820	-0.889	34.913	28.078	-0.71
1600	-0.824	-0.894	34.912	28.078	-0.71
1610	-0.843	-0.913	34.912	28.079	-0.89
1620	-0.850	-0.921	34.912	28.079	-0.99

B89.532					
depth	temp	theta	salnty	sig_th	delta
5	3.093	3.092	34.600	27.557	51.99
10	3.099	3.098	34.601	27.558	51.98
15	3.097	3.096	34.605	27.561	51.74
20	3.102	3.101	34.601	27.557	52.14
25	3.102	3.100	34.598	27.555	52.38
30	3.061	3.059	34.611	27.570	51.04
35	3.084	3.082	34.602	27.560	52.02
40	3.079	3.077	34.603	27.561	51.91
45	2.797	2.795	34.599	27.584	49.76
50	-0.382	-0.383	34.613	27.813	27.70
55	-0.697	-0.698	34.572	27.794	29.40
60	-0.636	-0.638	34.572	27.791	29.66
65	-0.524	-0.526	34.589	27.800	28.85
70	-0.706	-0.708	34.634	27.845	24.60
75	-0.748	-0.750	34.621	27.836	25.36
80	-0.713	-0.716	34.626	27.839	25.15
85	-0.619	-0.621	34.619	27.829	26.07
90	-0.457	-0.460	34.663	27.857	23.46
95	-0.616	-0.619	34.677	27.876	21.64
100	-0.364	-0.367	34.703	27.885	20.83
110	-0.337	-0.341	34.707	27.887	20.61
120	-0.304	-0.308	34.738	27.910	18.43
130	0.118	0.113	34.776	27.919	17.71
140	0.311	0.305	34.810	27.936	16.22
150	0.546	0.540	34.832	27.940	16.00
160	0.713	0.706	34.867	27.958	14.38
170	0.744	0.737	34.877	27.964	13.82
180	0.766	0.758	34.883	27.967	13.57
190	0.798	0.789	34.894	27.974	12.90
200	0.803	0.794	34.899	27.978	12.60
210	0.822	0.813	34.905	27.982	12.28
220	0.815	0.805	34.909	27.985	11.98
230	0.817	0.806	34.913	27.988	11.69
240	0.806	0.795	34.915	27.991	11.49
250	0.782	0.771	34.917	27.994	11.20
260	0.742	0.730	34.918	27.997	10.87
270	0.714	0.702	34.917	27.999	10.75
280	0.672	0.659	34.917	28.001	10.51
290	0.627	0.615	34.915	28.002	10.36
300	0.584	0.571	34.913	28.003	10.27
310	0.523	0.510	34.910	28.005	10.08
320	0.536	0.522	34.913	28.006	9.97
330	0.505	0.490	34.915	28.010	9.59
340	0.500	0.486	34.914	28.009	9.70
350	0.491	0.476	34.914	28.010	9.63
360	0.472	0.457	34.914	28.011	9.55
370	0.442	0.426	34.913	28.012	9.38
380	0.417	0.401	34.913	28.014	9.24
390	0.378	0.361	34.912	28.015	9.10
400	0.315	0.298	34.909	28.016	8.92
410	0.352	0.335	34.913	28.018	8.83
420	0.281	0.264	34.909	28.018	8.67
430	0.240	0.222	34.908	28.020	8.49
440	0.229	0.211	34.908	28.021	8.42
450	0.215	0.196	34.908	28.021	8.34

B89.532					
depth	temp	theta	salnty	sig_th	delta
460	0.194	0.174	34.908	28.022	8.22
470	0.149	0.129	34.907	28.024	8.03
480	0.118	0.098	34.905	28.025	7.91
490	0.064	0.044	34.905	28.027	7.60
500	0.046	0.025	34.905	28.029	7.45
510	0.028	0.007	34.904	28.029	7.41
520	-0.018	-0.039	34.905	28.032	7.03
530	-0.039	-0.061	34.904	28.032	6.97
540	-0.049	-0.071	34.904	28.033	6.92
550	-0.061	-0.083	34.904	28.033	6.85
560	-0.089	-0.112	34.905	28.036	6.59
570	-0.114	-0.137	34.904	28.036	6.51
580	-0.122	-0.146	34.905	28.037	6.37
590	-0.152	-0.176	34.905	28.039	6.19
600	-0.167	-0.191	34.905	28.040	6.09
610	-0.184	-0.209	34.905	28.040	5.98
620	-0.200	-0.225	34.905	28.042	5.82
630	-0.224	-0.250	34.905	28.043	5.65
640	-0.240	-0.266	34.905	28.043	5.58
650	-0.263	-0.289	34.905	28.045	5.41
660	-0.269	-0.295	34.904	28.044	5.42
670	-0.298	-0.324	34.905	28.047	5.14
680	-0.321	-0.348	34.905	28.047	5.02
690	-0.343	-0.370	34.905	28.049	4.87
700	-0.355	-0.383	34.905	28.049	4.78
710	-0.359	-0.388	34.904	28.049	4.80
720	-0.370	-0.398	34.906	28.050	4.61
730	-0.382	-0.411	34.906	28.051	4.50
740	-0.385	-0.414	34.906	28.051	4.49
750	-0.387	-0.417	34.905	28.051	4.50
760	-0.405	-0.435	34.907	28.054	4.20
770	-0.433	-0.463	34.906	28.054	4.08
780	-0.435	-0.466	34.907	28.054	4.04
790	-0.438	-0.470	34.907	28.055	4.00
800	-0.445	-0.477	34.906	28.055	3.98
810	-0.446	-0.478	34.905	28.054	4.01
820	-0.458	-0.490	34.907	28.056	3.77
830	-0.475	-0.508	34.908	28.057	3.61
840	-0.490	-0.524	34.908	28.058	3.47
850	-0.500	-0.533	34.908	28.059	3.41
860	-0.501	-0.535	34.908	28.059	3.38
870	-0.508	-0.543	34.907	28.059	3.37
880	-0.513	-0.549	34.908	28.059	3.28
890	-0.516	-0.552	34.907	28.059	3.31
900	-0.522	-0.558	34.908	28.060	3.19
910	-0.533	-0.570	34.909	28.061	3.04
920	-0.537	-0.574	34.908	28.061	3.02
930	-0.541	-0.578	34.908	28.061	2.99
940	-0.551	-0.589	34.909	28.062	2.87
950	-0.564	-0.602	34.909	28.062	2.77
960	-0.573	-0.612	34.909	28.063	2.66
970	-0.582	-0.620	34.908	28.063	2.62
980	-0.586	-0.626	34.909	28.064	2.52
990	-0.591	-0.630	34.909	28.064	2.47
1000	-0.591	-0.631	34.909	28.064	2.49

B89.532					
depth	temp	theta	salnty	sig_th	delta
1010	-0.596	-0.637	34.909	28.064	2.42
1020	-0.599	-0.640	34.909	28.065	2.35
1030	-0.603	-0.645	34.910	28.065	2.29
1040	-0.609	-0.651	34.910	28.066	2.20
1050	-0.612	-0.655	34.910	28.066	2.15
1060	-0.614	-0.657	34.910	28.066	2.15
1070	-0.618	-0.661	34.910	28.066	2.09
1080	-0.621	-0.665	34.910	28.066	2.07
1090	-0.625	-0.669	34.910	28.066	2.01
1100	-0.632	-0.677	34.910	28.067	1.91
1110	-0.636	-0.681	34.910	28.068	1.84
1120	-0.639	-0.685	34.911	28.068	1.80
1130	-0.641	-0.687	34.910	28.068	1.80
1140	-0.642	-0.689	34.910	28.067	1.81
1150	-0.649	-0.697	34.910	28.068	1.69
1160	-0.649	-0.697	34.910	28.068	1.70
1170	-0.649	-0.698	34.911	28.068	1.63
1180	-0.649	-0.698	34.911	28.068	1.61
1190	-0.649	-0.699	34.911	28.069	1.58
1200	-0.650	-0.700	34.911	28.068	1.58
1210	-0.652	-0.703	34.911	28.069	1.54

B89.533					
depth	temp	theta	salnty	sig_th	delta
5	1.794	1.794	33.947	27.143	91.21
10	1.794	1.794	33.944	27.141	91.40
15	1.796	1.795	33.944	27.141	91.46
20	1.791	1.790	33.945	27.142	91.39
25	1.791	1.790	33.944	27.142	91.41
30	1.796	1.794	33.944	27.141	91.52
35	1.797	1.795	33.944	27.141	91.50
40	1.796	1.794	33.946	27.143	91.34
45	1.794	1.792	33.944	27.141	91.54
50	0.363	0.361	34.645	27.799	29.09
55	-0.438	-0.440	34.483	27.711	37.34
60	-0.706	-0.707	34.568	27.792	29.63
65	-0.721	-0.723	34.584	27.805	28.39
70	-0.729	-0.731	34.585	27.806	28.20
75	-0.681	-0.683	34.602	27.817	27.16
80	-0.454	-0.457	34.654	27.850	24.12
85	-0.327	-0.330	34.675	27.861	23.13
90	-0.199	-0.202	34.696	27.871	22.18
95	-0.045	-0.048	34.723	27.886	20.85
100	-0.004	-0.008	34.735	27.893	20.18
110	0.009	0.004	34.760	27.912	18.36
120	0.125	0.120	34.774	27.918	17.88
130	0.179	0.174	34.801	27.937	16.12
140	0.241	0.236	34.816	27.945	15.39
150	0.315	0.309	34.827	27.949	14.98
160	0.427	0.421	34.845	27.957	14.28
170	0.524	0.517	34.860	27.964	13.75
180	0.550	0.543	34.866	27.967	13.43
190	0.592	0.584	34.877	27.973	12.91
200	0.610	0.601	34.880	27.975	12.78
210	0.619	0.610	34.883	27.977	12.64
220	0.634	0.624	34.888	27.980	12.36
230	0.644	0.634	34.893	27.983	12.09
240	0.658	0.647	34.896	27.984	11.97
250	0.662	0.652	34.900	27.988	11.67
260	0.637	0.626	34.903	27.992	11.31
270	0.625	0.613	34.902	27.992	11.29
280	0.614	0.601	34.906	27.996	10.94
290	0.613	0.600	34.906	27.996	10.93
300	0.606	0.593	34.907	27.997	10.83
310	0.582	0.568	34.910	28.001	10.47
320	0.552	0.538	34.911	28.003	10.25
330	0.528	0.514	34.911	28.005	10.12
340	0.502	0.488	34.908	28.005	10.12
350	0.478	0.462	34.911	28.008	9.75
360	0.467	0.451	34.912	28.010	9.62
370	0.443	0.427	34.912	28.011	9.48
380	0.422	0.406	34.911	28.012	9.42
390	0.373	0.356	34.910	28.014	9.16
400	0.340	0.323	34.910	28.016	8.98
410	0.277	0.259	34.909	28.018	8.68
420	0.247	0.229	34.907	28.019	8.60
430	0.217	0.199	34.905	28.018	8.60
440	0.204	0.186	34.905	28.019	8.51
450	0.171	0.152	34.904	28.020	8.36

B89.533					
depth	temp	theta	salnty	sig_th	delta
460	0.120	0.101	34.906	28.025	7.89
470	0.109	0.090	34.905	28.025	7.85
480	0.105	0.086	34.905	28.025	7.89
490	0.099	0.079	34.904	28.025	7.89
500	0.086	0.065	34.907	28.027	7.62
510	0.045	0.024	34.904	28.028	7.55
520	0.027	0.005	34.905	28.029	7.39
530	-0.004	-0.025	34.901	28.028	7.44
540	-0.014	-0.036	34.905	28.031	7.10
550	-0.014	-0.036	34.905	28.031	7.13
560	-0.048	-0.071	34.905	28.033	6.89
570	-0.099	-0.122	34.906	28.037	6.47
580	-0.125	-0.148	34.905	28.037	6.37
590	-0.131	-0.155	34.905	28.037	6.35
600	-0.145	-0.169	34.904	28.037	6.32
610	-0.162	-0.186	34.906	28.040	6.04
620	-0.207	-0.232	34.907	28.044	5.62
630	-0.214	-0.239	34.904	28.042	5.80
640	-0.214	-0.240	34.905	28.042	5.75
650	-0.234	-0.260	34.905	28.043	5.60
660	-0.257	-0.283	34.906	28.045	5.37
670	-0.266	-0.293	34.905	28.045	5.38
680	-0.281	-0.309	34.905	28.046	5.25
690	-0.296	-0.323	34.907	28.048	5.04
700	-0.306	-0.334	34.906	28.048	4.99
710	-0.325	-0.353	34.906	28.048	4.89
720	-0.339	-0.367	34.906	28.050	4.75
730	-0.343	-0.372	34.908	28.051	4.61
740	-0.350	-0.379	34.906	28.050	4.65
750	-0.364	-0.394	34.908	28.052	4.47
760	-0.363	-0.394	34.907	28.051	4.51
770	-0.366	-0.397	34.906	28.050	4.57
780	-0.369	-0.400	34.907	28.052	4.42
790	-0.369	-0.400	34.905	28.050	4.59
800	-0.381	-0.413	34.908	28.053	4.27
810	-0.388	-0.420	34.907	28.053	4.27

B89.534					
depth	temp	theta	salnty	sig_th	delta
5	1.541	1.541	33.911	27.133	92.18
10	1.543	1.542	33.910	27.133	92.23
15	1.541	1.541	33.911	27.133	92.19
20	1.540	1.539	33.911	27.134	92.18
25	1.532	1.531	33.913	27.135	92.02
30	1.526	1.525	33.914	27.137	91.87
35	1.518	1.516	33.915	27.138	91.75
40	1.466	1.464	33.924	27.149	90.72
45	1.366	1.364	33.915	27.149	90.78
50	0.076	0.075	34.103	27.378	68.91
55	-1.228	-1.229	34.365	27.647	43.25
60	-1.163	-1.165	34.384	27.661	41.94
65	-1.157	-1.158	34.379	27.656	42.34
70	-1.087	-1.089	34.417	27.684	39.71
75	-0.591	-0.593	34.453	27.693	38.92
80	-0.546	-0.548	34.484	27.717	36.71
85	-0.226	-0.229	34.540	27.746	33.98
90	-0.110	-0.113	34.582	27.775	31.29
95	0.135	0.131	34.627	27.798	29.20
100	-0.172	-0.176	34.632	27.819	27.15
110	0.587	0.583	34.689	27.822	27.08
120	0.878	0.872	34.763	27.863	23.27
130	0.525	0.520	34.756	27.880	21.57
140	0.451	0.445	34.765	27.891	20.50
150	1.117	1.110	34.825	27.897	20.24
160	0.659	0.652	34.821	27.924	17.56
170	0.525	0.518	34.820	27.932	16.75
180	0.406	0.399	34.809	27.929	16.93
190	0.475	0.467	34.819	27.934	16.54
200	0.520	0.511	34.825	27.936	16.40
210	0.570	0.561	34.840	27.945	15.59
220	0.612	0.603	34.849	27.950	15.16
230	0.622	0.612	34.860	27.958	14.39
240	0.601	0.591	34.864	27.963	13.97
250	0.673	0.662	34.877	27.969	13.48
260	0.682	0.670	34.885	27.974	12.99
270	0.688	0.676	34.889	27.978	12.69
280	0.760	0.747	34.899	27.981	12.47
290	0.782	0.769	34.907	27.986	12.00
300	0.779	0.765	34.909	27.988	11.86
310	0.781	0.767	34.911	27.989	11.78
320	0.779	0.764	34.912	27.990	11.71
330	0.770	0.755	34.913	27.992	11.54
340	0.754	0.738	34.915	27.994	11.35
350	0.735	0.719	34.916	27.997	11.10
360	0.726	0.710	34.916	27.997	11.07
370	0.716	0.699	34.917	27.998	10.99
380	0.694	0.676	34.916	27.999	10.91
390	0.666	0.648	34.917	28.002	10.66
400	0.621	0.603	34.918	28.005	10.31
410	0.608	0.590	34.916	28.005	10.32
420	0.595	0.576	34.917	28.006	10.20
430	0.562	0.543	34.916	28.008	10.04
440	0.536	0.517	34.916	28.009	9.89
450	0.485	0.466	34.918	28.014	9.39

B89.534					
depth	temp	theta	salnty	sig_th	delta
460	0.470	0.450	34.915	28.012	9.56
470	0.436	0.415	34.914	28.014	9.36
480	0.413	0.392	34.914	28.015	9.23
490	0.372	0.351	34.913	28.017	9.03
500	0.317	0.295	34.912	28.019	8.74
510	0.307	0.285	34.911	28.018	8.79
520	0.282	0.260	34.910	28.019	8.69
530	0.258	0.235	34.909	28.020	8.61
540	0.241	0.218	34.909	28.021	8.51
550	0.215	0.191	34.908	28.022	8.39
560	0.186	0.162	34.908	28.023	8.17
570	0.157	0.133	34.908	28.025	8.00
580	0.140	0.116	34.907	28.025	7.96
590	0.101	0.076	34.907	28.027	7.67
600	0.078	0.053	34.907	28.028	7.54
610	0.021	-0.005	34.905	28.030	7.32
620	0.014	-0.012	34.903	28.029	7.42
630	-0.005	-0.031	34.903	28.030	7.28
640	-0.029	-0.056	34.902	28.030	7.23
650	-0.034	-0.061	34.901	28.030	7.21
660	-0.075	-0.102	34.903	28.033	6.81
670	-0.081	-0.109	34.903	28.034	6.79
680	-0.083	-0.111	34.902	28.033	6.84
690	-0.097	-0.126	34.903	28.035	6.62
700	-0.123	-0.152	34.904	28.037	6.38
710	-0.135	-0.165	34.904	28.037	6.31
720	-0.143	-0.173	34.904	28.038	6.24
730	-0.157	-0.187	34.905	28.039	6.09
740	-0.181	-0.211	34.905	28.041	5.89
750	-0.192	-0.223	34.906	28.042	5.77
760	-0.215	-0.247	34.907	28.044	5.50
770	-0.226	-0.258	34.906	28.044	5.49
780	-0.246	-0.278	34.905	28.044	5.39
790	-0.254	-0.287	34.906	28.046	5.26
800	-0.272	-0.305	34.906	28.046	5.13
810	-0.277	-0.310	34.906	28.046	5.13
820	-0.297	-0.331	34.906	28.048	4.96
830	-0.316	-0.350	34.907	28.049	4.77
840	-0.331	-0.365	34.906	28.049	4.69
850	-0.341	-0.375	34.906	28.050	4.64
860	-0.357	-0.393	34.907	28.051	4.43
870	-0.369	-0.404	34.907	28.052	4.33
880	-0.378	-0.415	34.907	28.052	4.27
890	-0.394	-0.430	34.908	28.054	4.10
900	-0.397	-0.434	34.907	28.053	4.11
910	-0.412	-0.450	34.908	28.055	3.95
920	-0.427	-0.465	34.908	28.056	3.79
930	-0.438	-0.476	34.908	28.056	3.71
940	-0.439	-0.478	34.908	28.056	3.70
950	-0.448	-0.487	34.909	28.057	3.58
960	-0.459	-0.498	34.908	28.057	3.50
970	-0.466	-0.506	34.908	28.057	3.49
980	-0.476	-0.516	34.908	28.058	3.36
990	-0.485	-0.526	34.909	28.059	3.23
1000	-0.495	-0.536	34.910	28.060	3.10

B89.534					
depth	temp	theta	salnty	sig_th	delta
1010	-0.505	-0.547	34.909	28.060	3.03
1020	-0.516	-0.558	34.910	28.062	2.88
1030	-0.519	-0.562	34.910	28.062	2.84
1040	-0.526	-0.569	34.910	28.062	2.77
1050	-0.546	-0.590	34.911	28.064	2.57
1060	-0.557	-0.601	34.911	28.064	2.49
1070	-0.568	-0.612	34.911	28.065	2.33
1080	-0.578	-0.623	34.912	28.066	2.23
1090	-0.585	-0.630	34.911	28.066	2.20
1100	-0.598	-0.643	34.912	28.067	2.05
1110	-0.610	-0.656	34.912	28.067	1.93
1120	-0.623	-0.669	34.912	28.068	1.81
1130	-0.651	-0.697	34.914	28.071	1.47
1140	-0.657	-0.704	34.913	28.071	1.42
1150	-0.658	-0.705	34.913	28.070	1.44

B89.535					
depth	temp	theta	salnty	sig_th	delta
5	0.939	0.939	33.614	26.935	110.98
10	0.938	0.937	33.613	26.934	111.05
15	0.938	0.938	33.614	26.934	111.00
20	0.940	0.939	33.613	26.934	111.02
25	0.942	0.941	33.613	26.934	111.05
30	0.928	0.927	33.622	26.942	110.33
35	0.918	0.917	33.628	26.947	109.81
40	0.847	0.846	33.626	26.950	109.50
45	0.549	0.547	33.676	27.008	104.01
50	-0.015	-0.017	33.784	27.126	92.80
55	-0.905	-0.906	34.001	27.340	72.31
60	-1.343	-1.344	34.164	27.488	58.23
65	-1.372	-1.373	34.209	27.526	54.66
70	-1.394	-1.395	34.260	27.567	50.66
75	-1.389	-1.390	34.291	27.592	48.29
80	-1.308	-1.310	34.309	27.605	47.10
85	-1.256	-1.258	34.338	27.626	45.05
90	-1.227	-1.229	34.363	27.645	43.27
95	-1.041	-1.043	34.416	27.682	39.86
100	-1.015	-1.018	34.446	27.705	37.62
110	-0.906	-0.909	34.507	27.750	33.36
120	-0.868	-0.871	34.543	27.778	30.69
130	-0.825	-0.829	34.575	27.802	28.44
140	-0.788	-0.792	34.602	27.822	26.51
150	-0.493	-0.498	34.639	27.840	24.96
160	-0.276	-0.281	34.676	27.859	23.26
170	-0.215	-0.221	34.690	27.867	22.50
180	-0.014	-0.021	34.717	27.879	21.50
190	0.280	0.272	34.762	27.899	19.72
200	0.285	0.277	34.783	27.916	18.13
210	0.318	0.309	34.793	27.922	17.61
220	0.428	0.419	34.809	27.928	17.10
230	0.539	0.529	34.824	27.934	16.60
240	0.666	0.656	34.853	27.949	15.28
250	0.705	0.694	34.863	27.956	14.75
260	0.725	0.713	34.870	27.959	14.42
270	0.746	0.734	34.875	27.962	14.20
280	0.755	0.742	34.878	27.965	14.00
290	0.754	0.741	34.882	27.968	13.73
300	0.767	0.754	34.889	27.972	13.35
310	0.773	0.759	34.894	27.976	12.97
320	0.768	0.753	34.898	27.980	12.65
330	0.772	0.757	34.903	27.984	12.32
340	0.773	0.757	34.907	27.987	12.05
350	0.764	0.748	34.909	27.989	11.84
360	0.763	0.747	34.914	27.993	11.50
370	0.744	0.727	34.916	27.996	11.24
380	0.731	0.714	34.917	27.998	11.07
390	0.711	0.693	34.918	28.000	10.88
400	0.657	0.639	34.918	28.003	10.50
410	0.638	0.620	34.918	28.004	10.39
420	0.612	0.593	34.918	28.006	10.26
430	0.593	0.573	34.918	28.007	10.14
440	0.560	0.541	34.918	28.009	9.92
450	0.533	0.513	34.917	28.010	9.78

B89.535					
depth	temp	theta	salnty	sig_th	delta
460	0.497	0.477	34.918	28.013	9.53
470	0.458	0.437	34.916	28.014	9.36
480	0.405	0.384	34.914	28.015	9.18
490	0.369	0.348	34.913	28.017	9.00
500	0.329	0.307	34.912	28.018	8.85
510	0.292	0.270	34.910	28.019	8.71
520	0.266	0.243	34.911	28.021	8.49
530	0.240	0.217	34.908	28.020	8.52
540	0.207	0.184	34.908	28.022	8.34
550	0.185	0.162	34.907	28.023	8.25
560	0.159	0.135	34.907	28.024	8.10
570	0.119	0.095	34.906	28.025	7.90
580	0.086	0.062	34.905	28.027	7.72
590	0.051	0.027	34.905	28.028	7.53
600	0.019	-0.006	34.905	28.030	7.32
610	-0.005	-0.031	34.904	28.030	7.22
620	-0.028	-0.054	34.904	28.032	7.07
630	-0.055	-0.081	34.904	28.033	6.90
640	-0.080	-0.106	34.903	28.034	6.78
650	-0.096	-0.123	34.904	28.035	6.63
660	-0.113	-0.140	34.903	28.035	6.55
670	-0.130	-0.158	34.904	28.037	6.38
680	-0.135	-0.163	34.903	28.037	6.39
690	-0.160	-0.189	34.903	28.038	6.20
700	-0.181	-0.210	34.903	28.039	6.05
710	-0.202	-0.231	34.904	28.041	5.82
720	-0.214	-0.244	34.905	28.042	5.68
730	-0.232	-0.262	34.906	28.044	5.48
740	-0.247	-0.277	34.905	28.044	5.41
750	-0.256	-0.287	34.905	28.045	5.35
760	-0.264	-0.295	34.905	28.045	5.31
770	-0.287	-0.318	34.907	28.048	5.02
780	-0.306	-0.338	34.907	28.049	4.87
790	-0.313	-0.345	34.906	28.048	4.86
800	-0.332	-0.364	34.908	28.050	4.62
810	-0.349	-0.382	34.908	28.051	4.49
820	-0.368	-0.401	34.908	28.053	4.33
830	-0.383	-0.417	34.908	28.053	4.22
840	-0.392	-0.426	34.907	28.053	4.24
850	-0.400	-0.435	34.907	28.053	4.18
860	-0.415	-0.450	34.909	28.055	3.93
870	-0.424	-0.460	34.909	28.056	3.85
880	-0.438	-0.474	34.909	28.057	3.73
890	-0.448	-0.484	34.909	28.057	3.64
900	-0.466	-0.502	34.909	28.058	3.50
910	-0.474	-0.511	34.908	28.058	3.47
920	-0.486	-0.523	34.908	28.059	3.36
930	-0.500	-0.538	34.909	28.060	3.20
940	-0.513	-0.551	34.910	28.061	3.02
950	-0.518	-0.557	34.910	28.061	2.99
960	-0.528	-0.567	34.911	28.062	2.84
970	-0.537	-0.576	34.911	28.063	2.77
980	-0.554	-0.593	34.911	28.064	2.57
990	-0.575	-0.615	34.911	28.065	2.42
1000	-0.585	-0.625	34.911	28.065	2.37

B89.535					
depth	temp	theta	salnty	sig_th	delta
1010	-0.603	-0.644	34.913	28.068	2.10
1020	-0.612	-0.653	34.912	28.067	2.07
1030	-0.622	-0.664	34.913	28.069	1.90
1040	-0.622	-0.664	34.913	28.068	1.91
1050	-0.622	-0.665	34.912	28.068	1.90
1060	-0.623	-0.666	34.913	28.069	1.86
1070	-0.624	-0.668	34.913	28.069	1.84
1080	-0.627	-0.671	34.913	28.069	1.81

B89.536					
depth	temp	theta	salnty	sig_th	delta
5	1.022	1.021	33.280	26.661	136.90
10	1.021	1.021	33.281	26.662	136.87
15	1.001	1.001	33.281	26.663	136.73
20	1.000	0.999	33.281	26.663	136.72
25	0.999	0.998	33.280	26.663	136.77
30	1.001	0.999	33.280	26.663	136.78
35	0.984	0.982	33.281	26.664	136.66
40	1.025	1.023	33.284	26.664	136.62
45	1.055	1.053	33.290	26.667	136.35
50	1.066	1.064	33.294	26.670	136.13
55	1.088	1.086	33.295	26.669	136.20
60	1.106	1.103	33.303	26.674	135.69
65	1.105	1.102	33.315	26.684	134.78
70	0.886	0.883	33.413	26.777	125.95
75	-1.377	-1.379	34.094	27.432	63.47
80	-1.478	-1.479	34.125	27.461	60.68
85	-1.419	-1.421	34.193	27.514	55.64
90	-1.388	-1.390	34.215	27.530	54.06
95	-1.419	-1.422	34.252	27.562	51.02
100	-1.334	-1.336	34.274	27.577	49.64
110	-1.268	-1.271	34.317	27.610	46.51
120	-1.074	-1.077	34.387	27.660	41.82
130	-0.966	-0.970	34.445	27.702	37.81
140	-0.759	-0.763	34.494	27.734	34.85
150	-1.001	-1.005	34.527	27.770	31.33
160	-0.970	-0.974	34.541	27.781	30.29
170	-1.053	-1.058	34.584	27.819	26.62
180	-0.605	-0.611	34.628	27.836	25.21
190	0.209	0.201	34.672	27.831	26.11
200	0.535	0.527	34.727	27.856	23.95
210	0.642	0.633	34.763	27.878	21.92
220	0.004	-0.004	34.739	27.895	19.92
230	0.033	0.025	34.736	27.892	20.26
240	0.368	0.358	34.774	27.904	19.34
250	0.565	0.554	34.802	27.915	18.50
260	0.604	0.593	34.821	27.928	17.31
270	0.585	0.573	34.824	27.931	16.98
280	0.547	0.535	34.831	27.939	16.21
290	0.539	0.526	34.839	27.947	15.52
300	0.536	0.523	34.845	27.951	15.13
310	0.558	0.545	34.848	27.952	15.02
320	0.589	0.575	34.858	27.959	14.46
330	0.671	0.656	34.873	27.966	13.92
340	0.693	0.678	34.878	27.968	13.73
350	0.700	0.684	34.883	27.972	13.38
360	0.688	0.672	34.886	27.975	13.10
370	0.698	0.682	34.891	27.979	12.78
380	0.708	0.691	34.895	27.982	12.56
390	0.707	0.690	34.899	27.984	12.33
400	0.719	0.701	34.903	27.987	12.11
410	0.713	0.694	34.905	27.989	11.91
420	0.715	0.695	34.909	27.992	11.66
430	0.719	0.699	34.911	27.994	11.51
440	0.716	0.696	34.913	27.995	11.40
450	0.707	0.686	34.915	27.998	11.18

B89.536					
depth	temp	theta	salnty	sig_th	delta
460	0.690	0.669	34.916	27.999	11.04
470	0.685	0.663	34.918	28.001	10.86
480	0.665	0.643	34.917	28.002	10.80
490	0.613	0.591	34.917	28.006	10.39
500	0.587	0.564	34.916	28.006	10.34
510	0.566	0.543	34.919	28.009	10.00
520	0.538	0.515	34.917	28.010	9.96
530	0.506	0.483	34.918	28.012	9.68
540	0.471	0.447	34.915	28.013	9.60
550	0.435	0.411	34.914	28.014	9.44
560	0.396	0.371	34.914	28.016	9.22
570	0.357	0.332	34.912	28.017	9.08
580	0.335	0.309	34.911	28.017	9.01
590	0.314	0.287	34.908	28.016	9.12
600	0.269	0.243	34.910	28.020	8.63
610	0.246	0.220	34.910	28.021	8.49
620	0.223	0.196	34.909	28.022	8.37
630	0.215	0.187	34.908	28.022	8.42
640	0.190	0.162	34.908	28.024	8.22
650	0.175	0.146	34.907	28.023	8.21
660	0.144	0.115	34.908	28.026	7.93
670	0.124	0.095	34.907	28.026	7.89
680	0.095	0.065	34.907	28.027	7.70
690	0.063	0.033	34.907	28.029	7.46
700	0.043	0.013	34.905	28.029	7.45
710	0.020	-0.010	34.905	28.031	7.26
720	0.003	-0.028	34.906	28.032	7.09
730	-0.017	-0.048	34.905	28.032	7.06
740	-0.034	-0.066	34.906	28.034	6.86
750	-0.056	-0.088	34.906	28.035	6.67
760	-0.089	-0.121	34.906	28.037	6.44
770	-0.101	-0.133	34.904	28.036	6.48
780	-0.119	-0.152	34.905	28.038	6.29
790	-0.129	-0.163	34.904	28.038	6.28
800	-0.161	-0.195	34.906	28.041	5.90
810	-0.190	-0.224	34.907	28.043	5.67
820	-0.203	-0.238	34.906	28.042	5.65
830	-0.213	-0.248	34.906	28.044	5.52
840	-0.235	-0.270	34.906	28.044	5.40
850	-0.248	-0.284	34.910	28.048	4.99
860	-0.268	-0.304	34.907	28.047	5.09
870	-0.283	-0.319	34.906	28.047	4.99
880	-0.301	-0.337	34.906	28.048	4.89
890	-0.323	-0.360	34.907	28.050	4.61
900	-0.335	-0.372	34.907	28.050	4.54
910	-0.360	-0.398	34.908	28.053	4.26
920	-0.376	-0.414	34.908	28.053	4.16
930	-0.381	-0.419	34.908	28.054	4.11
940	-0.388	-0.427	34.908	28.054	4.06
950	-0.404	-0.443	34.908	28.054	3.95
960	-0.417	-0.457	34.909	28.056	3.76
970	-0.427	-0.467	34.908	28.055	3.77
980	-0.439	-0.479	34.909	28.057	3.57
990	-0.455	-0.496	34.908	28.057	3.54
1000	-0.472	-0.514	34.909	28.059	3.30

B89_536					
depth	temp	theta	salnty	sig_th	delta
1010	-0.480	-0.522	34.909	28.059	3.22
1020	-0.491	-0.534	34.909	28.059	3.16
1030	-0.504	-0.547	34.911	28.062	2.91
1040	-0.525	-0.568	34.910	28.062	2.77
1050	-0.553	-0.596	34.912	28.065	2.43
1060	-0.570	-0.614	34.911	28.065	2.34
1070	-0.583	-0.627	34.911	28.066	2.23
1080	-0.592	-0.637	34.911	28.066	2.14
1090	-0.593	-0.638	34.912	28.067	2.06
1100	-0.592	-0.638	34.912	28.067	2.09
1110	-0.593	-0.638	34.912	28.067	2.06
1120	-0.592	-0.639	34.912	28.067	2.04
1130	-0.592	-0.639	34.912	28.067	2.00

B89_537					
depth	temp	theta	salnty	sig_th	delta
5	0.648	0.648	33.436	26.809	122.86
10	0.651	0.651	33.437	26.809	122.85
15	0.656	0.656	33.437	26.809	122.85
20	0.655	0.654	33.437	26.810	122.82
25	0.655	0.654	33.437	26.810	122.82
30	0.655	0.653	33.438	26.810	122.74
35	0.652	0.651	33.439	26.812	122.63
40	0.651	0.650	33.440	26.812	122.58
45	0.648	0.646	33.444	26.816	122.23
50	0.583	0.581	33.450	26.824	121.43
55	0.438	0.435	33.461	26.841	119.81
60	0.320	0.318	33.484	26.866	117.41
65	-0.112	-0.114	33.622	26.999	104.72
70	-1.033	-1.034	34.059	27.392	67.37
75	-1.354	-1.355	34.220	27.533	53.86
80	-1.347	-1.349	34.247	27.556	51.74
85	-1.303	-1.305	34.264	27.568	50.55
90	-1.146	-1.149	34.303	27.594	48.13
95	-1.036	-1.039	34.346	27.625	45.21
100	-0.925	-0.927	34.396	27.661	41.82
110	-0.809	-0.812	34.448	27.699	38.26
120	-0.692	-0.696	34.487	27.725	35.74
130	-0.422	-0.426	34.548	27.762	32.33
140	-0.240	-0.245	34.586	27.785	30.30
150	-0.036	-0.041	34.634	27.813	27.66
160	0.016	0.010	34.680	27.847	24.46
170	-0.082	-0.089	34.712	27.879	21.46
180	0.193	0.186	34.744	27.890	20.55
190	0.463	0.455	34.780	27.903	19.46
200	0.719	0.710	34.813	27.914	18.54
210	0.721	0.712	34.828	27.926	17.44
220	0.607	0.598	34.834	27.938	16.26
230	0.642	0.632	34.847	27.946	15.57
240	0.643	0.632	34.853	27.951	15.12
250	0.651	0.640	34.856	27.953	14.97
260	0.703	0.692	34.865	27.957	14.62
270	0.767	0.755	34.877	27.963	14.16
280	0.822	0.809	34.886	27.966	13.91
290	0.798	0.785	34.891	27.972	13.35
300	0.798	0.784	34.893	27.974	13.19
310	0.806	0.792	34.897	27.976	13.00
320	0.794	0.780	34.899	27.979	12.79
330	0.792	0.777	34.903	27.982	12.46
340	0.797	0.782	34.906	27.985	12.28
350	0.800	0.784	34.909	27.986	12.13
360	0.802	0.785	34.912	27.989	11.94
370	0.789	0.772	34.914	27.992	11.68
380	0.778	0.761	34.916	27.993	11.51
390	0.764	0.746	34.917	27.996	11.32
400	0.728	0.709	34.916	27.997	11.15
410	0.691	0.672	34.917	28.000	10.82
420	0.666	0.646	34.918	28.003	10.62
430	0.647	0.627	34.919	28.004	10.44
440	0.598	0.578	34.918	28.007	10.17
450	0.562	0.542	34.916	28.008	10.07

B89.537					
depth	temp	theta	salnty	sig_th	delta
460	0.537	0.516	34.915	28.009	9.97
470	0.514	0.493	34.916	28.010	9.79
480	0.483	0.461	34.915	28.011	9.67
490	0.437	0.415	34.914	28.013	9.42
500	0.407	0.385	34.913	28.014	9.31
510	0.369	0.347	34.916	28.019	8.78
520	0.357	0.334	34.911	28.015	9.15
530	0.330	0.306	34.910	28.016	9.04
540	0.303	0.280	34.910	28.018	8.81
550	0.277	0.253	34.910	28.020	8.67
560	0.253	0.229	34.909	28.020	8.61
570	0.228	0.203	34.908	28.021	8.48
580	0.197	0.172	34.907	28.022	8.36
590	0.172	0.147	34.908	28.024	8.13
600	0.120	0.094	34.907	28.026	7.86
610	0.099	0.073	34.906	28.026	7.79
620	0.055	0.029	34.906	28.029	7.49
630	0.038	0.012	34.905	28.029	7.42
640	0.016	-0.011	34.903	28.029	7.41
650	-0.012	-0.040	34.903	28.030	7.23
660	-0.043	-0.070	34.902	28.031	7.09
670	-0.057	-0.085	34.902	28.032	7.01
680	-0.071	-0.099	34.903	28.033	6.85
690	-0.093	-0.122	34.902	28.034	6.71
700	-0.110	-0.139	34.903	28.035	6.55
710	-0.120	-0.150	34.902	28.035	6.57
720	-0.140	-0.170	34.903	28.037	6.34
730	-0.148	-0.178	34.903	28.037	6.28
740	-0.158	-0.189	34.904	28.038	6.16
750	-0.169	-0.200	34.904	28.039	6.07
760	-0.170	-0.202	34.904	28.039	6.04
770	-0.186	-0.218	34.904	28.040	5.91
780	-0.199	-0.231	34.904	28.041	5.79
790	-0.206	-0.239	34.903	28.041	5.81
800	-0.224	-0.258	34.905	28.043	5.52
810	-0.250	-0.283	34.906	28.045	5.34
820	-0.260	-0.294	34.905	28.045	5.30
830	-0.277	-0.311	34.905	28.046	5.16
840	-0.291	-0.325	34.905	28.046	5.06
850	-0.315	-0.350	34.906	28.049	4.79
860	-0.329	-0.364	34.905	28.049	4.76
870	-0.344	-0.380	34.906	28.050	4.58
880	-0.353	-0.390	34.907	28.051	4.45
890	-0.362	-0.398	34.907	28.052	4.37
900	-0.371	-0.408	34.907	28.052	4.32
910	-0.385	-0.423	34.906	28.052	4.22
920	-0.394	-0.432	34.907	28.053	4.14
930	-0.398	-0.437	34.906	28.053	4.12
940	-0.407	-0.446	34.907	28.054	3.99
950	-0.423	-0.463	34.908	28.055	3.81
960	-0.429	-0.469	34.909	28.056	3.69
970	-0.440	-0.480	34.909	28.057	3.55
980	-0.455	-0.495	34.909	28.058	3.47
990	-0.464	-0.505	34.910	28.059	3.33
1000	-0.481	-0.522	34.909	28.059	3.26

B89.537					
depth	temp	theta	salnty	sig_th	delta
1010	-0.487	-0.529	34.909	28.060	3.15
1020	-0.491	-0.534	34.910	28.060	3.06
1030	-0.507	-0.549	34.910	28.061	2.95
1040	-0.511	-0.554	34.910	28.061	2.92
1050	-0.521	-0.564	34.910	28.062	2.78
1060	-0.538	-0.582	34.911	28.063	2.60
1070	-0.538	-0.582	34.911	28.063	2.61
1080	-0.544	-0.589	34.911	28.064	2.54
1090	-0.553	-0.599	34.912	28.065	2.39
1100	-0.557	-0.602	34.911	28.064	2.40
1110	-0.558	-0.604	34.910	28.064	2.44
1120	-0.563	-0.610	34.912	28.066	2.23
1130	-0.569	-0.617	34.912	28.066	2.16
1140	-0.579	-0.626	34.914	28.068	1.98
1150	-0.582	-0.630	34.913	28.067	1.98
1160	-0.585	-0.634	34.913	28.067	1.95
1170	-0.592	-0.641	34.914	28.068	1.83
1180	-0.603	-0.652	34.914	28.069	1.73
1190	-0.613	-0.663	34.915	28.070	1.57
1200	-0.620	-0.670	34.914	28.070	1.53
1210	-0.627	-0.677	34.915	28.071	1.44
1220	-0.630	-0.681	34.913	28.070	1.48
1230	-0.638	-0.690	34.914	28.071	1.37
1240	-0.652	-0.704	34.916	28.073	1.10
1250	-0.657	-0.710	34.914	28.072	1.17
1260	-0.671	-0.724	34.915	28.073	0.99
1270	-0.689	-0.742	34.915	28.073	0.85
1280	-0.700	-0.753	34.915	28.074	0.72
1290	-0.715	-0.769	34.915	28.075	0.59
1300	-0.731	-0.785	34.915	28.076	0.45
1310	-0.749	-0.804	34.914	28.076	0.34
1320	-0.755	-0.810	34.914	28.076	0.29
1330	-0.755	-0.811	34.914	28.076	0.31
1340	-0.755	-0.811	34.914	28.076	0.24
1350	-0.754	-0.810	34.913	28.075	0.31
1360	-0.753	-0.810	34.913	28.075	0.31
1370	-0.753	-0.811	34.914	28.076	0.24
1380	-0.753	-0.811	34.914	28.076	0.20
1390	-0.752	-0.811	34.914	28.076	0.18
1400	-0.752	-0.812	34.914	28.076	0.15
1410	-0.752	-0.812	34.914	28.076	0.14
1420	-0.751	-0.812	34.914	28.076	0.11

B89.538					
depth	temp	theta	salnty	sig_th	delta
5	3.966	3.966	34.155	27.118	93.67
10	3.994	3.993	34.159	27.118	93.68
15	3.993	3.992	34.163	27.121	93.41
20	3.997	3.996	34.165	27.123	93.35
25	4.003	4.002	34.165	27.122	93.42
30	4.007	4.005	34.166	27.122	93.45
35	4.010	4.007	34.167	27.122	93.50
40	4.004	4.001	34.166	27.123	93.48
45	3.999	3.996	34.166	27.123	93.49
50	3.987	3.983	34.166	27.124	93.47
55	3.986	3.982	34.165	27.124	93.53
60	3.986	3.982	34.166	27.125	93.53
65	3.985	3.981	34.166	27.125	93.54
70	3.986	3.981	34.167	27.126	93.52
75	3.971	3.966	34.166	27.126	93.49
80	3.743	3.738	34.153	27.139	92.28
85	3.697	3.691	34.144	27.137	92.55
90	3.563	3.557	34.138	27.145	91.79
95	0.423	0.419	34.279	27.502	57.28
100	-0.151	-0.154	34.369	27.605	47.38
110	-0.880	-0.883	34.372	27.639	43.83
120	-1.148	-1.151	34.471	27.731	35.09
130	-0.865	-0.869	34.515	27.755	32.88
140	-0.331	-0.336	34.574	27.780	30.73
150	-0.282	-0.288	34.602	27.800	28.85
160	-0.754	-0.759	34.611	27.829	25.88
170	-0.857	-0.862	34.618	27.839	24.86
180	-0.438	-0.444	34.645	27.842	24.76
190	-0.519	-0.525	34.679	27.873	21.77
200	-0.088	-0.096	34.728	27.892	20.21
210	-0.138	-0.146	34.740	27.904	19.03
220	0.009	0.000	34.758	27.911	18.42
230	0.104	0.095	34.776	27.920	17.65
240	0.200	0.191	34.795	27.930	16.76
250	0.323	0.313	34.815	27.939	16.01
260	0.392	0.381	34.824	27.943	15.72
270	0.541	0.530	34.853	27.957	14.53
280	0.594	0.581	34.862	27.962	14.16
290	0.550	0.537	34.867	27.969	13.48
300	0.586	0.573	34.870	27.968	13.55
310	0.603	0.589	34.878	27.974	13.07
320	0.632	0.618	34.887	27.979	12.58
330	0.649	0.634	34.892	27.982	12.36
340	0.745	0.729	34.901	27.984	12.33
350	0.690	0.674	34.906	27.991	11.58
360	0.732	0.716	34.908	27.990	11.76
370	0.726	0.709	34.913	27.994	11.36
380	0.704	0.687	34.915	27.997	11.07
390	0.693	0.675	34.917	28.000	10.84
400	0.684	0.665	34.916	28.000	10.88
410	0.678	0.659	34.917	28.001	10.75
420	0.651	0.632	34.919	28.004	10.42
430	0.618	0.598	34.917	28.004	10.40
440	0.571	0.551	34.914	28.005	10.32
450	0.550	0.530	34.912	28.005	10.28

B89.538					
depth	temp	theta	salnty	sig_th	delta
460	0.523	0.503	34.914	28.008	10.02
470	0.504	0.483	34.913	28.009	9.90
480	0.447	0.426	34.911	28.010	9.72
490	0.419	0.398	34.910	28.011	9.62
500	0.413	0.391	34.912	28.013	9.40
510	0.341	0.319	34.907	28.014	9.29
520	0.287	0.264	34.905	28.015	9.06
530	0.263	0.240	34.904	28.016	8.98
540	0.217	0.194	34.907	28.021	8.45
550	0.177	0.154	34.901	28.018	8.64
560	0.118	0.094	34.903	28.023	8.13
570	0.096	0.072	34.901	28.023	8.11
580	0.049	0.024	34.901	28.025	7.79
590	0.027	0.002	34.902	28.027	7.57
600	-0.011	-0.036	34.902	28.029	7.29
610	-0.012	-0.038	34.902	28.029	7.31
620	-0.013	-0.039	34.905	28.032	7.07
630	-0.044	-0.070	34.905	28.033	6.87
640	-0.066	-0.093	34.906	28.035	6.67
650	-0.077	-0.104	34.906	28.036	6.59
660	-0.090	-0.117	34.906	28.037	6.47
670	-0.103	-0.131	34.906	28.037	6.41
680	-0.123	-0.151	34.906	28.038	6.27
690	-0.146	-0.174	34.906	28.040	6.08
700	-0.164	-0.193	34.906	28.041	5.95
710	-0.181	-0.211	34.906	28.042	5.81
720	-0.214	-0.244	34.907	28.044	5.54
730	-0.237	-0.267	34.907	28.045	5.39
740	-0.322	-0.351	34.909	28.051	4.64
750	-0.416	-0.446	34.910	28.056	3.96
760	-0.443	-0.473	34.909	28.057	3.82
770	-0.451	-0.481	34.909	28.057	3.76
780	-0.459	-0.489	34.909	28.058	3.70
790	-0.458	-0.489	34.909	28.057	3.69
800	-0.457	-0.489	34.909	28.057	3.68

B89.539					
depth	temp	theta	salnty	sig_th	delta
5	0.560	0.560	30.381	24.355	356.17
10	0.554	0.554	30.384	24.357	355.93
15	0.541	0.540	30.390	24.363	355.40
20	0.541	0.540	30.400	24.371	354.58
25	0.533	0.532	30.403	24.374	354.26
30	0.523	0.522	30.408	24.378	353.81
35	0.512	0.510	30.412	24.382	353.42
40	0.505	0.504	30.414	24.384	353.27
45	0.489	0.488	30.418	24.388	352.79
50	0.465	0.463	30.433	24.401	351.54
55	0.458	0.456	30.479	24.439	347.93
60	0.464	0.462	30.529	24.479	344.10
65	0.744	0.742	30.765	24.655	327.34
70	0.663	0.661	30.870	24.743	318.91
75	0.738	0.735	31.029	24.867	307.13
80	0.800	0.797	31.071	24.898	304.18
85	0.770	0.767	31.102	24.924	301.67
90	0.760	0.757	31.140	24.956	298.65
95	0.719	0.715	31.169	24.981	296.20
100	0.706	0.702	31.200	25.006	293.79
110	0.603	0.599	31.340	25.124	282.51
120	0.473	0.469	31.491	25.253	270.26
130	0.369	0.364	31.674	25.405	255.74
140	0.018	0.013	32.009	25.692	228.38
150	-0.816	-0.820	32.530	26.146	184.96
160	-1.161	-1.165	32.841	26.409	159.83
170	-1.406	-1.410	33.253	26.751	127.33
180	-1.488	-1.492	33.383	26.858	117.03
190	-1.579	-1.583	33.600	27.037	100.06
200	-1.596	-1.601	33.663	27.088	95.10
210	-1.591	-1.596	33.858	27.247	80.04
220	-1.587	-1.592	34.030	27.387	66.83
230	-1.670	-1.675	34.121	27.463	59.53
240	-1.651	-1.657	34.164	27.498	56.20
250	-1.666	-1.672	34.182	27.513	54.72
260	-1.668	-1.674	34.215	27.539	52.18
270	-1.622	-1.628	34.251	27.567	49.53
280	-1.471	-1.478	34.303	27.605	46.06
290	-1.001	-1.010	34.336	27.615	45.42
300	-1.351	-1.360	34.351	27.640	42.75
310	-1.179	-1.188	34.399	27.673	39.76
320	-0.856	-0.866	34.491	27.735	34.16
330	-0.370	-0.381	34.592	27.796	28.89
340	-0.151	-0.163	34.627	27.814	27.42
350	-0.014	-0.028	34.667	27.839	25.18
360	0.161	0.146	34.690	27.848	24.51
370	0.110	0.095	34.717	27.873	22.12
380	-0.058	-0.073	34.735	27.896	19.78
390	0.126	0.111	34.755	27.902	19.38
400	0.245	0.229	34.776	27.913	18.51
410	0.684	0.666	34.823	27.925	17.91
420	0.850	0.831	34.857	27.941	16.57
430	0.801	0.781	34.868	27.953	15.41
440	0.811	0.791	34.873	27.957	15.08
450	0.825	0.804	34.882	27.964	14.52

B89.539					
depth	temp	theta	salnty	sig_th	delta
460	0.814	0.792	34.883	27.966	14.36
470	0.796	0.774	34.886	27.969	14.02
480	0.776	0.754	34.888	27.971	13.81
490	0.740	0.717	34.886	27.972	13.69
500	0.728	0.705	34.886	27.973	13.63
510	0.753	0.729	34.894	27.978	13.23
520	0.774	0.749	34.901	27.983	12.84
530	0.732	0.707	34.907	27.989	12.15
540	0.717	0.691	34.907	27.991	12.00
550	0.701	0.675	34.909	27.993	11.78
560	0.692	0.666	34.910	27.995	11.61
570	0.691	0.664	34.912	27.996	11.53
580	0.682	0.655	34.914	27.999	11.30
590	0.651	0.623	34.914	28.001	11.06
600	0.640	0.612	34.915	28.002	10.92
610	0.638	0.609	34.917	28.004	10.81
620	0.601	0.572	34.919	28.008	10.41
630	0.551	0.521	34.918	28.010	10.09
640	0.521	0.492	34.917	28.011	9.99
650	0.502	0.472	34.915	28.011	9.95
660	0.487	0.457	34.915	28.012	9.90
670	0.454	0.424	34.914	28.013	9.70
680	0.427	0.396	34.914	28.014	9.56
690	0.421	0.389	34.913	28.014	9.55
700	0.404	0.372	34.913	28.015	9.48
710	0.390	0.358	34.913	28.016	9.37
720	0.373	0.340	34.912	28.017	9.29
730	0.365	0.331	34.911	28.016	9.31
740	0.360	0.327	34.912	28.017	9.25
750	0.356	0.322	34.912	28.017	9.25
760	0.352	0.317	34.911	28.017	9.24
770	0.340	0.305	34.912	28.018	9.13
780	0.330	0.295	34.911	28.018	9.16
790	0.330	0.294	34.911	28.018	9.16
800	0.328	0.291	34.910	28.018	9.16
810	0.304	0.266	34.912	28.021	8.85
820	0.240	0.203	34.911	28.023	8.50

B89.540					
depth	temp	theta	salnty	sig_th	delta
5	0.833	0.833	33.012	26.457	156.31
10	0.832	0.832	33.004	26.451	156.85
15	0.831	0.830	33.002	26.449	157.05
20	0.704	0.703	33.023	26.473	154.73
25	0.591	0.590	33.043	26.496	152.55
30	0.605	0.604	33.055	26.505	151.74
35	0.623	0.622	33.073	26.518	150.45
40	0.612	0.610	33.084	26.528	149.50
45	0.732	0.730	33.141	26.567	145.85
50	0.768	0.766	33.168	26.587	143.96
55	0.841	0.838	33.177	26.590	143.69
60	0.843	0.841	33.188	26.598	142.87
65	0.816	0.814	33.198	26.608	141.96
70	0.784	0.781	33.214	26.623	140.53
75	-0.050	-0.052	33.582	26.964	108.06
80	-0.978	-0.981	33.926	27.282	77.68
85	-1.377	-1.379	34.109	27.444	62.23
90	-1.381	-1.383	34.129	27.460	60.69
95	-1.240	-1.243	34.173	27.492	57.70
100	-1.093	-1.095	34.219	27.524	54.74
110	-0.648	-0.651	34.310	27.580	49.49
120	-0.277	-0.281	34.458	27.683	39.88
130	-0.170	-0.174	34.494	27.707	37.67
140	0.078	0.073	34.541	27.732	35.40
150	0.765	0.758	34.651	27.781	31.08
160	1.018	1.010	34.713	27.814	28.04
170	1.523	1.514	34.783	27.835	26.36
180	1.765	1.756	34.835	27.858	24.32
190	1.858	1.848	34.861	27.873	23.05
200	2.089	2.078	34.902	27.887	21.89
210	1.987	1.976	34.906	27.899	20.77
220	1.847	1.836	34.906	27.909	19.77
230	1.698	1.686	34.900	27.916	19.06
240	1.514	1.502	34.891	27.923	18.38
250	1.428	1.416	34.889	27.927	17.95
260	1.348	1.335	34.887	27.932	17.47
270	1.213	1.200	34.881	27.937	16.96
280	0.976	0.963	34.867	27.941	16.35
290	1.000	0.986	34.872	27.944	16.19
300	1.081	1.066	34.885	27.948	15.82
310	1.054	1.039	34.892	27.956	15.15
320	0.935	0.920	34.887	27.960	14.64
330	0.884	0.868	34.889	27.965	14.14
340	0.919	0.904	34.894	27.967	14.04
350	0.902	0.885	34.898	27.971	13.65
360	0.881	0.864	34.902	27.975	13.27
370	0.883	0.865	34.904	27.977	13.13
380	0.863	0.845	34.907	27.981	12.77
390	0.835	0.816	34.910	27.985	12.38
400	0.819	0.800	34.912	27.988	12.14
410	0.816	0.796	34.914	27.990	11.99
420	0.813	0.793	34.916	27.992	11.81
430	0.808	0.788	34.916	27.992	11.83
440	0.798	0.778	34.919	27.995	11.55
450	0.789	0.768	34.921	27.997	11.36

B89.540					
depth	temp	theta	salnty	sig_th	delta
460	0.737	0.715	34.921	28.000	10.98
470	0.721	0.699	34.921	28.001	10.88
480	0.703	0.681	34.924	28.005	10.55
490	0.670	0.647	34.922	28.006	10.42
500	0.650	0.627	34.923	28.008	10.25
510	0.612	0.589	34.923	28.010	10.00
520	0.584	0.560	34.922	28.011	9.87
530	0.564	0.540	34.924	28.014	9.60
540	0.534	0.509	34.921	28.014	9.62
550	0.521	0.496	34.920	28.013	9.63
560	0.502	0.477	34.920	28.015	9.50
570	0.479	0.454	34.919	28.015	9.42
580	0.452	0.425	34.920	28.017	9.19
590	0.425	0.399	34.919	28.018	9.09
600	0.407	0.380	34.918	28.019	8.98
610	0.370	0.342	34.917	28.020	8.80
620	0.350	0.322	34.916	28.020	8.78
630	0.321	0.293	34.915	28.022	8.61
640	0.289	0.261	34.915	28.023	8.40
650	0.240	0.211	34.915	28.026	8.11
660	0.195	0.166	34.913	28.027	7.91
670	0.182	0.152	34.911	28.026	7.94
680	0.136	0.106	34.909	28.027	7.77
690	0.137	0.107	34.911	28.029	7.65
700	0.104	0.073	34.911	28.030	7.45
710	0.086	0.055	34.910	28.031	7.36
720	0.045	0.014	34.910	28.033	7.12
730	0.014	-0.017	34.908	28.033	7.01
740	0.006	-0.026	34.908	28.034	6.95
750	0.001	-0.032	34.909	28.035	6.83
760	-0.033	-0.065	34.909	28.036	6.65
770	-0.057	-0.090	34.908	28.037	6.54
780	-0.069	-0.103	34.908	28.037	6.46
790	-0.081	-0.114	34.908	28.038	6.37
800	-0.099	-0.133	34.908	28.039	6.23
810	-0.109	-0.144	34.907	28.039	6.19
820	-0.125	-0.160	34.907	28.040	6.09
830	-0.152	-0.187	34.907	28.041	5.91
840	-0.161	-0.197	34.907	28.041	5.83
850	-0.173	-0.209	34.906	28.041	5.81
860	-0.207	-0.243	34.906	28.043	5.55
870	-0.219	-0.256	34.907	28.045	5.39
880	-0.233	-0.270	34.906	28.044	5.37
890	-0.243	-0.280	34.906	28.045	5.30
900	-0.258	-0.296	34.906	28.046	5.17
910	-0.281	-0.319	34.906	28.047	4.98
920	-0.297	-0.336	34.906	28.048	4.85
930	-0.308	-0.347	34.907	28.049	4.75
940	-0.324	-0.363	34.906	28.049	4.64
950	-0.338	-0.378	34.907	28.050	4.51
960	-0.346	-0.387	34.906	28.050	4.47
970	-0.361	-0.402	34.907	28.051	4.32
980	-0.374	-0.415	34.907	28.052	4.20
990	-0.386	-0.427	34.908	28.054	4.03
1000	-0.412	-0.454	34.905	28.053	4.01

B89.540					
depth	temp	theta	salnty	sig_th	delta
1010	-0.418	-0.461	34.906	28.054	3.90
1020	-0.432	-0.474	34.906	28.055	3.77
1030	-0.437	-0.480	34.907	28.056	3.67
1040	-0.446	-0.489	34.907	28.056	3.56
1050	-0.459	-0.503	34.908	28.057	3.44
1060	-0.472	-0.517	34.907	28.057	3.35
1070	-0.476	-0.521	34.907	28.058	3.31
1080	-0.483	-0.528	34.907	28.058	3.25
1090	-0.488	-0.534	34.908	28.059	3.11
1100	-0.499	-0.545	34.908	28.060	3.02
1110	-0.507	-0.553	34.908	28.060	2.97
1120	-0.507	-0.554	34.909	28.061	2.87
1130	-0.507	-0.555	34.910	28.062	2.76
1140	-0.517	-0.565	34.910	28.062	2.68
1150	-0.530	-0.578	34.908	28.061	2.73
1160	-0.542	-0.591	34.910	28.063	2.47
1170	-0.546	-0.595	34.910	28.063	2.48
1180	-0.540	-0.590	34.911	28.064	2.43
1190	-0.543	-0.594	34.912	28.065	2.30
1200	-0.544	-0.595	34.912	28.065	2.28
1210	-0.550	-0.602	34.912	28.065	2.19
1220	-0.550	-0.602	34.912	28.065	2.19
1230	-0.552	-0.605	34.914	28.067	2.04
1240	-0.557	-0.610	34.914	28.067	1.96
1250	-0.564	-0.618	34.913	28.067	1.94
1260	-0.591	-0.645	34.913	28.068	1.78
1270	-0.597	-0.651	34.912	28.068	1.73
1280	-0.604	-0.659	34.912	28.068	1.65
1290	-0.606	-0.662	34.913	28.068	1.60
1300	-0.610	-0.666	34.913	28.069	1.53
1310	-0.612	-0.668	34.913	28.069	1.51
1320	-0.618	-0.674	34.913	28.070	1.40
1330	-0.622	-0.680	34.914	28.070	1.31
1340	-0.630	-0.688	34.915	28.071	1.15
1350	-0.636	-0.694	34.915	28.072	1.08
1360	-0.645	-0.704	34.915	28.072	1.00
1370	-0.652	-0.711	34.916	28.073	0.86
1380	-0.659	-0.719	34.916	28.073	0.80
1390	-0.665	-0.725	34.916	28.074	0.73
1400	-0.673	-0.734	34.916	28.074	0.64
1410	-0.706	-0.767	34.916	28.076	0.35
1420	-0.726	-0.787	34.916	28.077	0.16
1430	-0.727	-0.789	34.916	28.076	0.16
1440	-0.729	-0.791	34.915	28.076	0.15

B89.541					
depth	temp	theta	salnty	sig_th	delta
5	-0.467	-0.467	32.341	25.979	201.62
10	-0.385	-0.385	32.512	26.115	188.74
15	-0.342	-0.343	32.646	26.221	178.61
20	-0.344	-0.345	32.757	26.311	170.08
25	-0.516	-0.517	32.945	26.470	154.94
30	-0.925	-0.926	33.007	26.535	148.67
35	-1.155	-1.156	33.090	26.610	141.54
40	-1.100	-1.101	33.257	26.744	128.82
45	-1.020	-1.021	33.251	26.737	129.50
50	-1.397	-1.398	33.431	26.894	114.48
55	-1.498	-1.499	33.483	26.939	110.16
60	-1.568	-1.569	33.523	26.974	106.87
65	-1.584	-1.585	33.558	27.003	104.06
70	-1.623	-1.624	33.644	27.074	97.30
75	-1.625	-1.627	33.701	27.120	92.90
80	-1.621	-1.623	33.749	27.159	89.17
85	-1.614	-1.615	33.821	27.218	83.62
90	-1.598	-1.600	33.920	27.297	76.06
95	-1.613	-1.615	33.963	27.333	72.64
100	-1.594	-1.596	34.004	27.366	69.49
110	-1.547	-1.549	34.106	27.447	61.81
120	-1.522	-1.525	34.182	27.509	55.93
130	-1.484	-1.487	34.230	27.546	52.36
140	-1.480	-1.483	34.256	27.567	50.31
150	-1.464	-1.468	34.288	27.592	47.90
160	-1.406	-1.410	34.341	27.634	43.95
170	-1.218	-1.222	34.391	27.668	40.74
180	-1.128	-1.133	34.414	27.683	39.33
190	-1.033	-1.039	34.442	27.703	37.52
200	-0.934	-0.940	34.478	27.728	35.19
210	-0.785	-0.792	34.513	27.751	33.08
220	-0.729	-0.736	34.533	27.764	31.84
230	-0.675	-0.683	34.548	27.774	30.92
240	-0.580	-0.588	34.575	27.792	29.25
250	-0.573	-0.582	34.588	27.802	28.32
260	-0.527	-0.535	34.601	27.811	27.47
270	-0.473	-0.482	34.613	27.818	26.81
280	-0.363	-0.373	34.638	27.833	25.48
290	-0.320	-0.331	34.652	27.842	24.62
300	-0.219	-0.230	34.673	27.854	23.56
310	-0.137	-0.148	34.690	27.864	22.76
320	-0.098	-0.110	34.701	27.870	22.15
330	-0.081	-0.094	34.705	27.873	21.92
340	-0.049	-0.062	34.712	27.877	21.60
350	-0.006	-0.020	34.717	27.879	21.40
360	0.010	-0.004	34.721	27.881	21.22
370	0.047	0.033	34.725	27.883	21.12
380	0.176	0.161	34.737	27.886	21.00
390	0.215	0.199	34.747	27.891	20.50
400	0.274	0.257	34.757	27.896	20.11
410	0.365	0.348	34.768	27.900	19.90
420	0.463	0.444	34.788	27.910	19.05
430	0.475	0.456	34.792	27.912	18.86
440	0.476	0.456	34.794	27.915	18.67
450	0.527	0.507	34.801	27.917	18.51

B89.541					
depth	temp	theta	salnty	sig_th	delta
460	0.544	0.523	34.808	27.922	18.10
470	0.557	0.536	34.812	27.924	17.92
480	0.605	0.583	34.821	27.928	17.63
490	0.656	0.634	34.830	27.933	17.29
500	0.641	0.618	34.829	27.933	17.27
510	0.670	0.646	34.835	27.936	17.03
520	0.694	0.669	34.840	27.938	16.85
530	0.704	0.679	34.844	27.941	16.69
540	0.698	0.673	34.849	27.945	16.27
550	0.693	0.667	34.850	27.946	16.18
560	0.694	0.668	34.852	27.948	16.05
570	0.695	0.669	34.867	27.960	14.96
580	0.693	0.665	34.869	27.962	14.80
590	0.701	0.673	34.874	27.965	14.50

B89.542					
depth	temp	theta	salnty	sig_th	delta
5	0.516	0.516	30.935	24.803	313.50
10	0.638	0.637	31.038	24.880	306.16
15	0.757	0.756	31.126	24.944	300.04
20	0.737	0.736	31.157	24.970	297.51
25	0.677	0.676	31.183	24.995	295.19
30	0.657	0.656	31.208	25.015	293.22
35	0.508	0.507	31.278	25.079	287.08
40	0.509	0.508	31.299	25.096	285.46
45	0.567	0.565	31.331	25.119	283.26
50	0.574	0.572	31.340	25.126	282.58
55	0.421	0.420	31.437	25.212	274.39
60	0.405	0.403	31.520	25.279	267.96
65	0.427	0.425	31.610	25.350	261.20
70	0.437	0.435	31.702	25.424	254.18
75	0.447	0.444	31.815	25.515	245.52
80	0.448	0.445	31.975	25.643	233.32
85	0.323	0.320	32.158	25.797	218.70
90	0.304	0.301	32.182	25.818	216.72
95	0.292	0.289	32.190	25.824	216.05
100	-0.065	-0.068	32.493	26.085	191.18
110	-0.369	-0.373	32.723	26.284	172.19
120	-0.926	-0.929	32.997	26.528	148.90
130	-1.299	-1.302	33.341	26.819	121.15
140	-1.455	-1.458	33.707	27.120	92.55
150	-1.523	-1.526	33.897	27.276	77.69
160	-1.577	-1.581	34.031	27.387	67.17
170	-1.581	-1.585	34.056	27.408	65.15
180	-1.587	-1.591	34.069	27.418	64.08
190	-1.504	-1.509	34.098	27.439	62.10
200	-1.496	-1.501	34.129	27.464	59.72
210	-1.476	-1.482	34.177	27.503	56.04
220	-1.393	-1.399	34.255	27.564	50.28
230	-1.308	-1.314	34.316	27.610	45.93
240	-1.121	-1.128	34.399	27.671	40.22

B89.543					
depth	temp	theta	salnty	sig_th	delta
5	-0.460	-0.460	29.964	24.058	384.44
10	0.367	0.367	30.501	24.460	346.13
15	0.462	0.461	30.820	24.712	322.08
20	0.528	0.528	30.897	24.772	316.40
25	0.571	0.570	31.036	24.881	305.99
30	0.610	0.609	31.067	24.904	303.79
35	0.757	0.756	31.120	24.940	300.40
40	0.529	0.527	31.366	25.149	280.40
45	0.409	0.407	31.389	25.173	278.10
50	0.302	0.300	31.718	25.444	252.34
55	0.175	0.173	31.884	25.583	239.08
60	0.108	0.106	32.082	25.746	223.60
65	0.092	0.090	32.179	25.825	216.04
70	0.070	0.068	32.246	25.880	210.77
75	-0.000	-0.003	32.350	25.967	202.48
80	-0.106	-0.108	32.481	26.078	191.97
85	-0.207	-0.210	32.570	26.154	184.69
90	-0.451	-0.454	32.711	26.278	172.86
95	-0.574	-0.577	32.846	26.392	161.99
100	-0.675	-0.678	32.964	26.492	152.50
110	-0.801	-0.804	33.089	26.598	142.38
120	-1.130	-1.133	33.459	26.909	112.77

B89.544					
depth	temp	theta	salnty	sig_th	delta
5	0.522	0.522	30.719	24.629	330.11
10	0.515	0.515	30.885	24.763	317.31
15	0.475	0.474	31.059	24.905	303.77
20	0.405	0.405	31.248	25.060	288.99
25	0.403	0.403	31.267	25.075	287.49
30	0.399	0.398	31.282	25.088	286.25
35	0.390	0.388	31.293	25.097	285.37
40	0.354	0.353	31.324	25.123	282.86
45	0.345	0.344	31.340	25.137	281.57
50	0.364	0.362	31.405	25.189	276.61
55	0.390	0.388	31.455	25.227	272.93
60	0.395	0.393	31.509	25.271	268.77
65	0.346	0.344	31.580	25.330	263.09
70	0.344	0.342	31.599	25.346	261.61
75	0.341	0.339	31.618	25.361	260.10
80	0.340	0.338	31.629	25.370	259.25
85	0.435	0.432	31.734	25.450	251.67
90	0.465	0.462	31.899	25.582	239.16
95	0.429	0.425	32.089	25.736	224.44
100	0.354	0.351	32.172	25.807	217.69
110	-0.010	-0.013	32.565	26.141	185.90
120	-0.122	-0.125	32.661	26.224	177.94
130	-0.952	-0.955	33.284	26.761	126.78
140	-1.086	-1.090	33.436	26.889	114.54
150	-1.380	-1.384	33.788	27.184	86.50
160	-1.400	-1.404	33.940	27.308	74.75
170	-1.392	-1.396	34.000	27.357	70.05
180	-1.386	-1.391	34.045	27.393	66.60
190	-1.381	-1.386	34.086	27.426	63.44
200	-1.382	-1.387	34.099	27.436	62.40
210	-1.378	-1.383	34.128	27.460	60.13
220	-1.375	-1.380	34.160	27.486	57.60
230	-1.375	-1.381	34.167	27.492	57.03
240	-1.376	-1.382	34.175	27.498	56.37
250	-1.373	-1.379	34.200	27.518	54.42
260	-1.369	-1.376	34.219	27.534	52.94
270	-1.356	-1.363	34.240	27.550	51.33
280	-1.323	-1.331	34.294	27.593	47.28
290	-1.299	-1.307	34.318	27.611	45.52
300	-1.288	-1.296	34.341	27.630	43.73
310	-1.238	-1.246	34.404	27.679	39.10

B89.545					
depth	temp	theta	salnty	sig_th	delta
5	0.532	0.532	30.454	24.415	350.48
10	0.495	0.495	30.488	24.444	347.66
15	0.382	0.381	30.541	24.491	343.13
20	0.373	0.373	30.556	24.505	341.84
25	0.437	0.436	30.602	24.538	338.62
30	0.441	0.440	30.639	24.568	335.73
35	0.472	0.471	30.681	24.600	332.65
40	0.472	0.471	30.726	24.636	329.19
45	0.327	0.325	30.751	24.664	326.56
50	0.118	0.116	30.769	24.687	324.30
55	0.363	0.361	30.821	24.718	321.31
60	0.669	0.667	30.974	24.826	311.06
65	0.718	0.715	31.049	24.884	305.55
70	0.658	0.656	31.124	24.948	299.43
75	0.716	0.713	31.178	24.989	295.57
80	0.653	0.650	31.249	25.049	289.80
85	0.608	0.605	31.326	25.113	283.70
90	0.559	0.555	31.391	25.168	278.44
95	0.457	0.453	31.502	25.262	269.48
100	0.401	0.398	31.567	25.318	264.16
110	0.281	0.278	31.820	25.527	244.22
120	0.127	0.123	32.014	25.690	228.62
130	-0.250	-0.254	32.316	25.951	203.77
140	-0.667	-0.671	32.595	26.193	180.60
150	-1.041	-1.045	33.016	26.547	146.86
160	-1.265	-1.269	33.317	26.798	122.96
170	-1.450	-1.454	33.590	27.026	101.31
180	-1.566	-1.570	33.843	27.234	81.51
190	-1.607	-1.611	33.910	27.289	76.18
200	-1.638	-1.642	34.029	27.387	66.90
210	-1.555	-1.560	34.146	27.480	58.11
220	-1.447	-1.452	34.264	27.572	49.43
230	-1.441	-1.447	34.271	27.578	48.88
240	-1.434	-1.440	34.272	27.579	48.71
250	-1.427	-1.433	34.273	27.579	48.62
260	-1.417	-1.424	34.282	27.586	47.97
270	-1.369	-1.376	34.300	27.600	46.68
280	-1.285	-1.293	34.325	27.617	45.10
290	-1.123	-1.132	34.391	27.665	40.64
300	-0.928	-0.937	34.462	27.715	36.03
310	-0.759	-0.769	34.510	27.747	33.21

B89.546					
depth	temp	theta	salnty	sig_th	delta
5	0.404	0.404	30.325	24.317	359.83
10	0.388	0.387	30.334	24.325	358.99
15	0.515	0.515	30.372	24.350	356.64
20	0.501	0.500	30.493	24.447	347.29
25	0.466	0.465	30.514	24.466	345.48
30	0.485	0.484	30.556	24.499	342.31
35	0.479	0.478	30.560	24.502	341.98
40	0.468	0.467	30.571	24.512	341.01
45	0.472	0.471	30.587	24.525	339.80
50	0.478	0.476	30.598	24.534	338.93
55	0.494	0.492	30.665	24.586	333.88
60	0.505	0.503	30.851	24.736	319.63
65	0.477	0.475	30.936	24.806	312.96
70	0.461	0.459	31.016	24.870	306.79
75	0.435	0.432	31.080	24.923	301.74
80	0.605	0.602	31.185	24.999	294.52
85	0.537	0.534	31.278	25.078	286.99
90	0.588	0.585	31.300	25.093	285.57
95	0.551	0.548	31.392	25.169	278.36
100	0.395	0.391	31.571	25.321	263.88
110	0.278	0.274	31.697	25.428	253.64
120	0.164	0.160	31.993	25.672	230.42
130	-0.162	-0.166	32.235	25.882	210.32
140	-0.679	-0.683	32.626	26.218	178.19
150	-1.005	-1.009	32.912	26.461	155.02
160	-1.360	-1.364	33.269	26.762	126.30
170	-1.500	-1.504	33.465	26.925	110.79
180	-1.551	-1.556	33.744	27.153	89.15
190	-1.533	-1.538	33.873	27.258	79.20
200	-1.560	-1.564	34.051	27.403	65.48
210	-1.574	-1.579	34.112	27.453	60.69
220	-1.631	-1.637	34.172	27.504	55.79
230	-1.622	-1.628	34.203	27.528	53.40
240	-1.672	-1.678	34.242	27.561	50.19
250	-1.691	-1.697	34.276	27.590	47.44
260	-1.677	-1.684	34.293	27.603	46.16
270	-1.663	-1.669	34.299	27.607	45.73
280	-1.616	-1.623	34.329	27.631	43.49
290	-1.543	-1.550	34.354	27.648	41.82
300	-0.999	-1.008	34.386	27.656	41.57
310	-0.879	-0.888	34.467	27.717	35.89
320	-0.776	-0.787	34.507	27.745	33.32
330	-0.487	-0.499	34.569	27.783	30.02
340	-0.274	-0.286	34.622	27.816	27.09
350	0.101	0.087	34.701	27.860	23.34
360	0.354	0.339	34.753	27.888	20.94
370	0.410	0.395	34.778	27.905	19.43
380	0.310	0.294	34.787	27.918	18.10
390	0.181	0.165	34.791	27.928	16.99
400	0.404	0.387	34.819	27.939	16.28
410	0.455	0.438	34.830	27.944	15.81
420	0.524	0.506	34.842	27.950	15.42
430	0.588	0.569	34.852	27.954	15.08
440	0.779	0.759	34.875	27.961	14.73
450	0.808	0.787	34.886	27.968	14.09

B89.546					
depth	temp	theta	salnty	sig_th	delta
460	0.810	0.789	34.890	27.971	13.82
470	0.826	0.804	34.897	27.976	13.43
480	0.782	0.759	34.898	27.979	13.05
490	0.793	0.770	34.902	27.982	12.84
500	0.802	0.778	34.905	27.984	12.69
510	0.775	0.751	34.906	27.986	12.50
520	0.759	0.734	34.907	27.988	12.26
530	0.745	0.720	34.909	27.991	12.03
540	0.717	0.691	34.908	27.992	11.95
550	0.709	0.683	34.909	27.993	11.80
560	0.683	0.657	34.912	27.997	11.40
570	0.674	0.647	34.914	27.999	11.21
580	0.669	0.641	34.915	28.001	11.11
590	0.625	0.597	34.917	28.005	10.68
600	0.612	0.584	34.916	28.005	10.64
610	0.591	0.562	34.916	28.006	10.49
620	0.578	0.549	34.916	28.007	10.40
630	0.564	0.535	34.916	28.008	10.32
640	0.531	0.501	34.916	28.010	10.09
650	0.508	0.478	34.916	28.011	9.95
660	0.488	0.457	34.914	28.011	9.93
670	0.464	0.433	34.914	28.013	9.77
680	0.440	0.409	34.914	28.014	9.62
690	0.415	0.383	34.914	28.015	9.47
700	0.388	0.356	34.915	28.018	9.20
710	0.350	0.318	34.911	28.017	9.21
720	0.301	0.269	34.913	28.021	8.74
730	0.280	0.248	34.911	28.020	8.74
740	0.279	0.245	34.910	28.020	8.80
750	0.272	0.238	34.910	28.020	8.75
760	0.265	0.231	34.909	28.020	8.75
770	0.258	0.223	34.910	28.021	8.68
780	0.223	0.188	34.910	28.024	8.37
790	0.221	0.186	34.909	28.022	8.48
800	0.212	0.176	34.908	28.022	8.46
810	0.212	0.176	34.908	28.023	8.47
820	0.214	0.177	34.908	28.022	8.52

B89.547					
depth	temp	theta	salnty	sig_th	delta
5	-0.821	-0.821	30.445	24.458	346.36
10	-0.660	-0.660	30.515	24.510	341.32
15	-0.352	-0.352	30.791	24.723	321.04
20	-0.281	-0.281	30.915	24.820	311.74
25	-0.208	-0.209	31.053	24.929	301.36
30	-0.168	-0.169	31.110	24.974	297.06
35	-0.097	-0.098	31.218	25.058	289.04
40	-0.111	-0.112	31.377	25.187	276.76
45	-0.219	-0.220	31.656	25.416	254.89
50	-0.283	-0.285	31.804	25.539	243.25
55	-0.304	-0.306	31.894	25.612	236.26
60	-0.328	-0.330	32.015	25.711	226.86
65	-0.417	-0.419	32.137	25.813	217.13
70	-0.294	-0.296	32.238	25.890	209.79
75	-0.356	-0.358	32.320	25.958	203.29
80	-0.389	-0.392	32.481	26.090	190.77
85	-0.542	-0.545	32.695	26.269	173.72
90	-0.700	-0.702	32.868	26.415	159.81
95	-0.759	-0.762	32.940	26.475	154.05
100	-0.805	-0.807	33.018	26.540	147.88
110	-0.112	-0.115	33.222	26.676	135.18
120	-0.718	-0.722	33.413	26.857	117.86
130	-0.972	-0.976	33.625	27.038	100.56
140	-1.633	-1.636	33.785	27.189	86.00
150	-1.592	-1.595	33.881	27.266	78.65
160	-1.635	-1.639	33.970	27.339	71.62
170	-1.665	-1.669	34.018	27.379	67.85
180	-1.645	-1.649	34.074	27.424	63.53
190	-1.626	-1.630	34.113	27.455	60.53
200	-1.628	-1.632	34.145	27.482	57.98
210	-1.595	-1.600	34.200	27.525	53.83
220	-1.569	-1.574	34.229	27.548	51.68
230	-1.431	-1.437	34.284	27.589	47.85
240	-1.387	-1.394	34.308	27.607	46.14
250	-1.290	-1.296	34.357	27.643	42.78
260	-1.094	-1.101	34.423	27.689	38.49
270	-0.906	-0.914	34.470	27.720	35.67
280	-0.807	-0.815	34.495	27.737	34.18
290	-0.547	-0.557	34.545	27.766	31.64
300	-0.281	-0.291	34.585	27.786	29.95
310	-0.187	-0.199	34.619	27.809	27.90
320	-0.086	-0.098	34.638	27.820	26.95
330	0.215	0.202	34.677	27.835	25.81
340	0.398	0.384	34.709	27.850	24.58
350	0.560	0.545	34.738	27.864	23.44
360	0.622	0.606	34.770	27.886	21.39
370	0.636	0.620	34.786	27.898	20.34
380	0.662	0.645	34.795	27.904	19.83
390	0.543	0.526	34.799	27.914	18.77
400	0.602	0.584	34.803	27.914	18.86
410	0.797	0.778	34.820	27.916	18.90
420	0.785	0.765	34.834	27.928	17.77
430	0.687	0.667	34.838	27.936	16.86
440	0.619	0.599	34.837	27.940	16.42
450	0.703	0.682	34.853	27.948	15.85

B89.547					
depth	temp	theta	salnty	sig_th	delta
460	0.686	0.665	34.855	27.950	15.60
470	0.764	0.742	34.866	27.955	15.31
480	0.773	0.751	34.874	27.960	14.83
490	0.783	0.760	34.880	27.964	14.48
500	0.820	0.796	34.885	27.966	14.40
510	0.821	0.797	34.891	27.971	13.95
520	0.842	0.818	34.896	27.974	13.72
530	0.825	0.800	34.898	27.977	13.46
540	0.815	0.789	34.900	27.979	13.29
550	0.825	0.799	34.904	27.982	13.04
560	0.816	0.789	34.907	27.984	12.81
570	0.795	0.768	34.910	27.988	12.43
580	0.793	0.765	34.910	27.989	12.40
590	0.747	0.719	34.913	27.994	11.86
600	0.747	0.719	34.915	27.996	11.74
610	0.728	0.699	34.916	27.997	11.58
620	0.709	0.679	34.917	27.999	11.36
630	0.700	0.670	34.917	28.000	11.29
640	0.669	0.639	34.918	28.003	11.01
650	0.647	0.616	34.918	28.004	10.85
660	0.629	0.597	34.918	28.006	10.69
670	0.606	0.574	34.918	28.007	10.57
680	0.560	0.528	34.918	28.009	10.26
690	0.525	0.493	34.916	28.011	10.10
700	0.487	0.454	34.915	28.012	9.93
710	0.448	0.415	34.915	28.014	9.67
720	0.432	0.398	34.914	28.015	9.59
730	0.389	0.355	34.913	28.016	9.37
740	0.373	0.339	34.912	28.017	9.30
750	0.325	0.291	34.911	28.018	9.10
760	0.295	0.260	34.910	28.020	8.89
770	0.249	0.214	34.910	28.022	8.59
780	0.220	0.184	34.909	28.023	8.44
790	0.180	0.145	34.909	28.025	8.18
800	0.149	0.113	34.908	28.026	7.99
810	0.125	0.089	34.908	28.027	7.85
820	0.099	0.063	34.907	28.028	7.71
830	0.078	0.042	34.907	28.029	7.59
840	0.044	0.007	34.907	28.031	7.29
850	0.028	-0.009	34.906	28.031	7.26
860	0.003	-0.035	34.906	28.033	7.06
870	-0.024	-0.062	34.907	28.034	6.85
880	-0.044	-0.082	34.906	28.035	6.73
890	-0.056	-0.095	34.906	28.035	6.66
900	-0.070	-0.110	34.906	28.036	6.56
910	-0.094	-0.134	34.906	28.037	6.36
920	-0.112	-0.152	34.906	28.038	6.24
930	-0.127	-0.167	34.906	28.040	6.07
940	-0.144	-0.185	34.906	28.040	5.97
950	-0.157	-0.198	34.906	28.040	5.91
960	-0.164	-0.206	34.906	28.041	5.83
970	-0.180	-0.222	34.907	28.043	5.65
980	-0.191	-0.234	34.907	28.043	5.56
990	-0.212	-0.255	34.907	28.044	5.39
1000	-0.216	-0.260	34.906	28.044	5.38

B89.547					
depth	temp	theta	salnty	sig_th	delta
1010	-0.221	-0.265	34.906	28.044	5.36
1020	-0.230	-0.275	34.906	28.045	5.28
1030	-0.245	-0.290	34.907	28.046	5.11
1040	-0.256	-0.301	34.907	28.047	5.02
1050	-0.265	-0.311	34.907	28.047	4.91
1060	-0.276	-0.322	34.906	28.047	4.90
1070	-0.287	-0.333	34.907	28.048	4.76
1080	-0.296	-0.343	34.907	28.049	4.66
1090	-0.304	-0.352	34.907	28.050	4.56
1100	-0.311	-0.359	34.907	28.050	4.53
1110	-0.317	-0.366	34.907	28.050	4.45
1120	-0.324	-0.373	34.908	28.051	4.37
1130	-0.335	-0.384	34.908	28.051	4.28
1140	-0.345	-0.394	34.908	28.052	4.17
1150	-0.351	-0.401	34.908	28.052	4.11
1160	-0.363	-0.413	34.908	28.053	3.98
1170	-0.371	-0.423	34.908	28.054	3.92
1180	-0.381	-0.432	34.908	28.054	3.81
1190	-0.397	-0.449	34.909	28.056	3.63
1200	-0.400	-0.453	34.909	28.055	3.63
1210	-0.410	-0.463	34.909	28.057	3.48
1220	-0.417	-0.470	34.909	28.057	3.43
1230	-0.427	-0.481	34.910	28.058	3.30
1240	-0.433	-0.487	34.909	28.058	3.26
1250	-0.446	-0.500	34.909	28.058	3.15
1260	-0.449	-0.504	34.910	28.059	3.07
1270	-0.451	-0.507	34.910	28.059	3.02
1280	-0.460	-0.516	34.911	28.060	2.89
1290	-0.468	-0.525	34.911	28.061	2.82
1300	-0.471	-0.528	34.911	28.061	2.76
1310	-0.487	-0.545	34.911	28.062	2.60
1320	-0.501	-0.559	34.911	28.062	2.50
1330	-0.511	-0.570	34.911	28.063	2.40
1340	-0.520	-0.579	34.911	28.064	2.29
1350	-0.535	-0.594	34.912	28.065	2.12
1360	-0.550	-0.610	34.912	28.066	1.95
1370	-0.557	-0.617	34.912	28.066	1.89
1380	-0.571	-0.632	34.913	28.067	1.73
1390	-0.581	-0.642	34.913	28.068	1.62
1400	-0.623	-0.684	34.915	28.072	1.09
1410	-0.645	-0.706	34.915	28.072	0.93
1420	-0.651	-0.713	34.914	28.072	0.93
1430	-0.651	-0.713	34.914	28.071	0.93
1440	-0.651	-0.714	34.914	28.072	0.91

B89.548					
depth	temp	theta	salnty	sig_th	delta
5	0.613	0.612	33.522	26.880	116.13
10	0.439	0.438	33.663	27.004	104.39
15	0.241	0.241	33.757	27.090	96.22
20	-0.274	-0.275	33.819	27.166	88.97
25	-0.010	-0.011	33.823	27.157	89.88
30	-0.025	-0.026	33.833	27.165	89.06
35	0.643	0.642	33.864	27.154	90.16
40	0.681	0.679	33.880	27.165	89.16
45	0.797	0.795	33.895	27.169	88.76
50	0.867	0.865	33.904	27.173	88.42
55	0.848	0.846	33.909	27.178	87.99
60	0.832	0.829	33.910	27.179	87.82
65	0.787	0.784	33.911	27.183	87.46
70	0.837	0.834	33.922	27.189	86.93
75	1.223	1.219	33.950	27.187	87.18
80	0.160	0.157	33.990	27.283	77.93
85	0.094	0.091	34.026	27.315	74.84
90	-0.268	-0.271	34.098	27.391	67.52
95	-0.603	-0.606	34.217	27.503	56.85
100	-0.871	-0.874	34.275	27.561	51.32
110	-0.859	-0.863	34.480	27.727	35.58
120	-0.694	-0.697	34.515	27.748	33.64
130	-0.805	-0.809	34.533	27.768	31.68
140	-0.803	-0.807	34.551	27.782	30.33
150	-0.351	-0.357	34.604	27.805	28.33
160	-0.602	-0.607	34.641	27.846	24.28
170	-0.603	-0.608	34.656	27.858	23.14
180	-0.398	-0.405	34.684	27.871	22.00
190	-0.298	-0.305	34.700	27.879	21.26
200	0.114	0.106	34.743	27.893	20.20
210	0.145	0.137	34.760	27.905	19.11
220	0.139	0.130	34.779	27.920	17.64
230	0.307	0.297	34.806	27.933	16.53
240	0.360	0.350	34.816	27.938	16.13
250	0.416	0.406	34.833	27.948	15.23
260	0.516	0.505	34.858	27.963	13.94
270	0.541	0.529	34.865	27.967	13.55
280	0.565	0.552	34.869	27.969	13.41
290	0.616	0.603	34.878	27.973	13.14
300	0.631	0.617	34.882	27.975	12.95
310	0.650	0.637	34.887	27.978	12.72
320	0.682	0.667	34.894	27.982	12.40
330	0.748	0.733	34.902	27.984	12.28
340	0.759	0.743	34.907	27.988	11.96
350	0.760	0.744	34.909	27.989	11.85
360	0.756	0.740	34.912	27.992	11.57
370	0.752	0.735	34.914	27.994	11.46
380	0.741	0.724	34.914	27.995	11.37
390	0.719	0.701	34.916	27.998	11.07
400	0.687	0.669	34.917	28.000	10.81
410	0.643	0.625	34.917	28.003	10.53
420	0.617	0.598	34.916	28.004	10.46
430	0.580	0.560	34.916	28.006	10.18
440	0.550	0.530	34.916	28.008	9.97
450	0.522	0.502	34.915	28.009	9.88

B89.548					
depth	temp	theta	salnty	sig_th	delta
460	0.467	0.446	34.914	28.012	9.57
470	0.358	0.338	34.913	28.017	8.91
480	0.317	0.297	34.912	28.019	8.74
490	0.311	0.290	34.910	28.018	8.83
500	0.213	0.192	34.908	28.021	8.36
510	0.155	0.134	34.899	28.018	8.62
520	0.110	0.088	34.898	28.019	8.42
530	0.053	0.031	34.895	28.020	8.26
540	0.056	0.033	34.897	28.021	8.18
550	-0.009	-0.031	34.900	28.027	7.52
560	0.019	-0.004	34.904	28.029	7.36
570	-0.020	-0.044	34.892	28.021	8.05
580	-0.024	-0.048	34.904	28.032	7.07
590	-0.056	-0.080	34.903	28.033	6.92
600	-0.088	-0.113	34.903	28.034	6.70
610	-0.079	-0.104	34.899	28.031	7.07
620	-0.114	-0.139	34.902	28.035	6.63
630	-0.136	-0.162	34.904	28.038	6.31
640	-0.172	-0.198	34.905	28.040	6.03
650	-0.177	-0.203	34.905	28.040	5.99
660	-0.217	-0.243	34.906	28.043	5.66
670	-0.299	-0.325	34.907	28.048	5.02
680	-0.314	-0.341	34.906	28.048	4.99
690	-0.316	-0.343	34.906	28.048	5.00
700	-0.334	-0.362	34.907	28.050	4.75
710	-0.362	-0.390	34.907	28.051	4.57
720	-0.406	-0.434	34.908	28.054	4.20
730	-0.432	-0.460	34.909	28.056	3.97
740	-0.446	-0.475	34.908	28.056	3.89
750	-0.448	-0.477	34.908	28.056	3.91
760	-0.448	-0.478	34.907	28.056	3.93
770	-0.449	-0.479	34.907	28.056	3.89
780	-0.450	-0.481	34.908	28.056	3.85
790	-0.449	-0.481	34.907	28.056	3.87
800	-0.449	-0.481	34.908	28.056	3.84

B89.549					
depth	temp	theta	salnty	sig_th	delta
5	7.122	7.121	34.891	27.316	74.88
10	7.122	7.121	34.892	27.317	74.87
15	7.123	7.122	34.894	27.318	74.88
20	7.125	7.123	34.893	27.318	75.00
25	7.126	7.124	34.894	27.318	75.05
30	7.127	7.124	34.894	27.318	75.13
35	7.127	7.124	34.895	27.319	75.19
40	7.127	7.124	34.894	27.319	75.28
45	7.127	7.123	34.895	27.319	75.35
50	7.127	7.122	34.895	27.319	75.38
55	7.128	7.122	34.895	27.319	75.50
60	7.127	7.122	34.895	27.319	75.56
65	7.126	7.120	34.898	27.322	75.40
70	7.127	7.121	34.897	27.321	75.61
75	7.127	7.120	34.897	27.321	75.66
80	7.129	7.121	34.902	27.325	75.37
85	7.129	7.121	34.905	27.327	75.27
90	7.119	7.110	34.907	27.331	75.01
95	7.113	7.104	34.908	27.332	75.00
100	7.098	7.088	34.907	27.334	74.88
110	6.991	6.980	34.908	27.349	73.58
120	6.851	6.840	34.928	27.385	70.36
130	6.426	6.414	34.935	27.448	64.45
140	6.090	6.078	35.020	27.558	54.02
150	6.033	6.021	35.047	27.587	51.42
160	5.978	5.964	35.050	27.597	50.63
170	5.948	5.933	35.044	27.596	50.85
180	5.910	5.894	35.041	27.599	50.71
190	5.791	5.775	35.033	27.608	50.00
200	5.723	5.706	35.026	27.611	49.82
210	5.548	5.531	35.013	27.622	48.80
220	5.476	5.458	35.005	27.625	48.64
230	5.234	5.215	34.982	27.636	47.63
240	4.270	4.252	34.931	27.705	40.65

B89.550					
depth	temp	theta	salnty	sig_th	delta
5	6.775	6.775	34.852	27.333	73.28
10	6.778	6.777	34.853	27.334	73.31
15	6.776	6.774	34.853	27.334	73.36
20	6.771	6.770	34.851	27.333	73.53
25	6.770	6.767	34.850	27.333	73.61
30	6.775	6.772	34.852	27.334	73.66
35	6.772	6.769	34.848	27.331	74.01
40	6.776	6.772	34.852	27.334	73.79
45	6.768	6.764	34.850	27.334	73.90
50	6.776	6.772	34.854	27.335	73.82
55	6.769	6.764	34.849	27.333	74.15
60	6.780	6.774	34.856	27.337	73.84
65	6.781	6.775	34.857	27.337	73.91
70	6.782	6.776	34.859	27.339	73.82
75	6.786	6.779	34.862	27.341	73.71
80	6.819	6.812	34.879	27.350	72.99
85	6.823	6.815	34.879	27.349	73.12
90	6.794	6.786	34.879	27.353	72.79
95	6.748	6.739	34.879	27.360	72.27
100	6.768	6.759	34.896	27.371	71.33
110	6.786	6.776	34.911	27.379	70.66
120	6.746	6.735	34.918	27.391	69.72
130	6.554	6.542	34.929	27.425	66.59
140	6.375	6.362	34.957	27.472	62.27
150	6.355	6.342	35.006	27.513	58.54
160	6.126	6.112	35.043	27.572	53.02
170	6.059	6.044	35.031	27.572	53.20
180	6.051	6.035	35.030	27.572	53.29
190	6.105	6.089	35.055	27.585	52.25
200	5.975	5.958	35.046	27.595	51.43
210	5.845	5.828	35.044	27.610	50.14

B89.551					
depth	temp	theta	salnty	sig_th	delta
5	6.531	6.530	34.724	27.265	79.71
10	6.530	6.529	34.727	27.268	79.52
15	6.531	6.530	34.729	27.269	79.50
20	6.532	6.530	34.729	27.270	79.53
25	6.532	6.530	34.730	27.270	79.54
30	6.534	6.531	34.734	27.274	79.33
35	6.535	6.532	34.734	27.273	79.45
40	6.535	6.532	34.746	27.283	78.63
45	6.532	6.529	34.765	27.298	77.25
50	6.506	6.501	34.827	27.350	72.37
55	6.486	6.481	34.851	27.372	70.37
60	6.356	6.351	34.944	27.463	61.83

B89.552					
depth	temp	theta	salnty	sig_th	delta
5	7.026	7.025	34.460	26.990	105.81
10	7.027	7.027	34.469	26.997	105.20
15	7.028	7.027	34.472	26.999	105.10
20	7.029	7.027	34.473	27.000	105.08
25	7.035	7.033	34.481	27.006	104.68
30	7.034	7.031	34.480	27.005	104.80
35	7.034	7.031	34.498	27.019	103.53
40	7.025	7.021	34.564	27.073	98.57
45	7.003	6.998	34.590	27.097	96.38

