



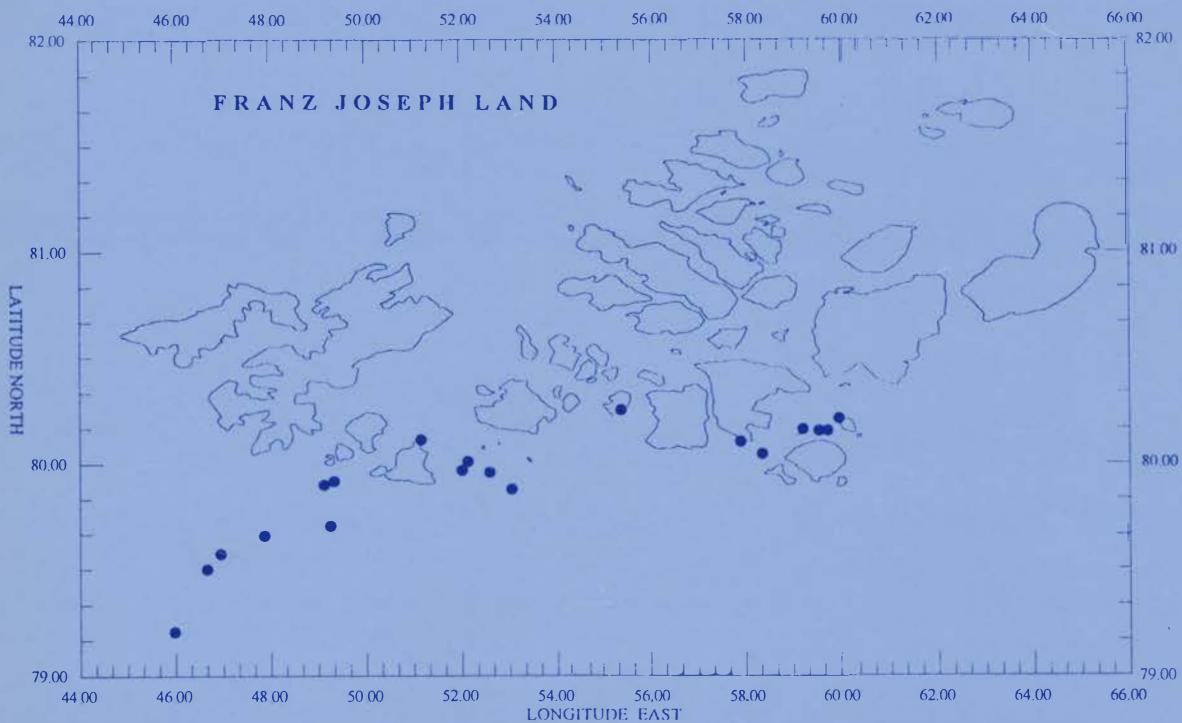
NORSK POLARINSTITUTT

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NINA NORDLUND & TORGNY VINJE

OCEANOGRAPHIC MEASUREMENTS
R/V DALNIE ZELENTSY,
EASTERN BARENTS SEA,
AUGUST 1993





RAPPORT NR. 85

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R/V DALNIE ZELENTSY,
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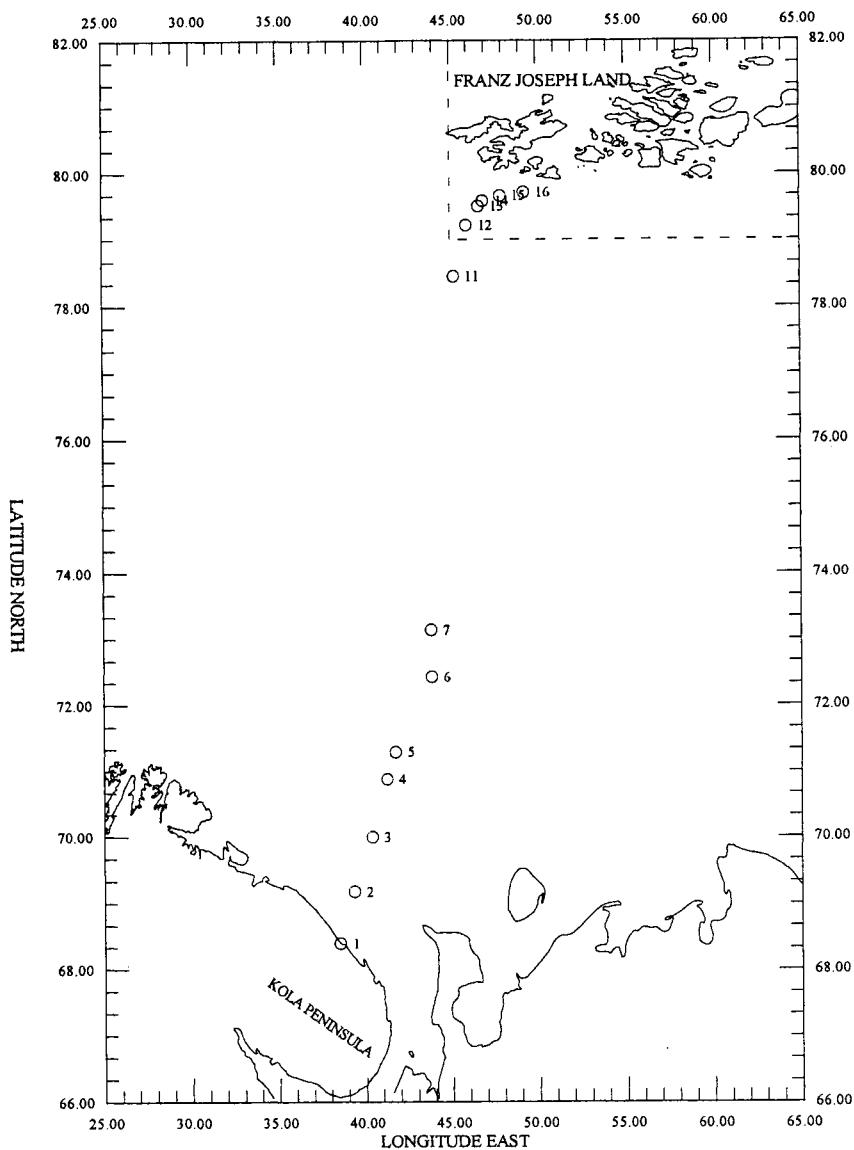


Figure 1a CTD-stations, R/V Dalnie Zelentsy 1993

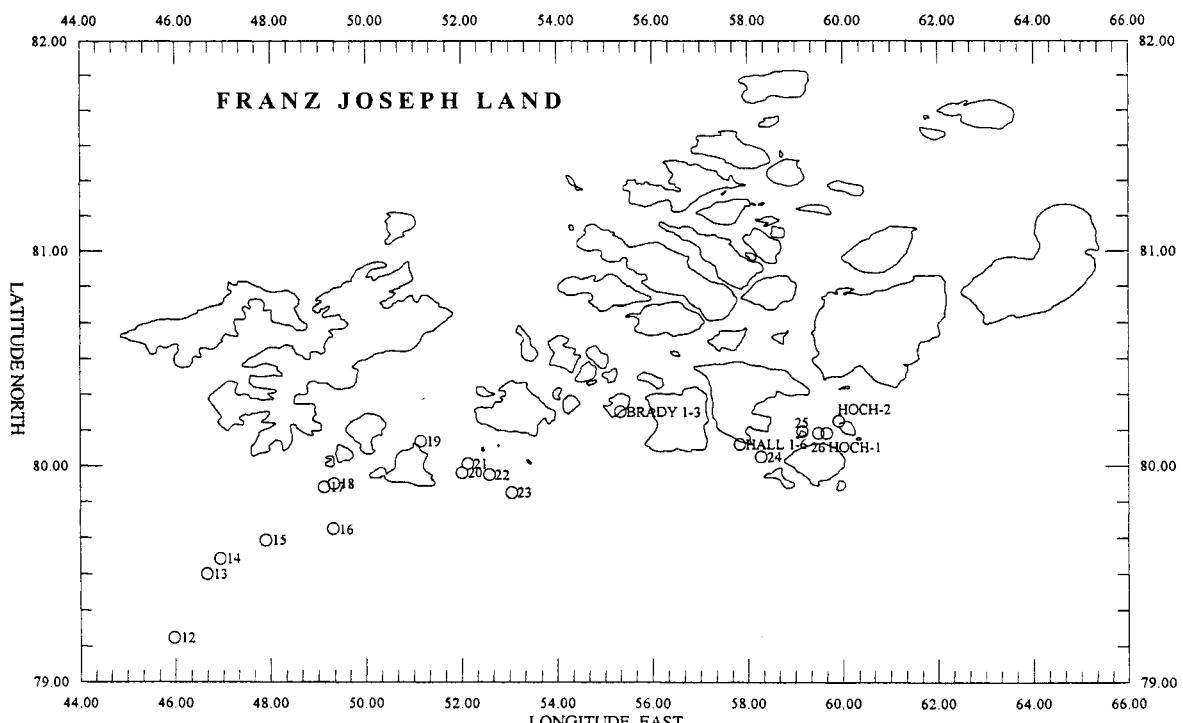


Figure 1b CTD-stations, R/V Dalnie Zelentsy 1993

Introduction

From August 10 to 31 1993, the Murmansk Marine Biological Institute (MMBI) carried out a scientific cruise to Franz Joseph Land with the Russian research vessel R/V Dalnie Zelentzy. Cruise leader was Sergei Korsun from the MMBI. The Norwegian Polar Institute was kindly invited to participate with one person. This report deals with the CTD data from this cruise. The survey area is shown in Figures 1a and 1b.

Instruments

Three types of CTD's were used during the cruise. A short description of the instruments follows.

ME: Meerestechnik Elektronic GmbH, Multiparameter Probe OTS 1500, where data are transferred simultaneously to a computer via a conducting cable. This CTD makes ca 10 measurements of temperature, conductivity and pressure each second, and the accuracy is given to be: $\pm 0.001\text{S/m}$ for conductivity, $\pm 0.01^\circ\text{C}$ for temperature and for pressure $\pm 0.25\%$ of full scale (1500m).

SB: Sea-bird Electronics, Inc., Sea-cat CTD, where data are stored in an internal memory and transferred to a computer when the profile is finished. The SB measures temperature, conductivity and pressure. This CTD makes 2 measurements each second and the accuracy is given to be: $\pm 0.001\text{S/m}$, $\pm 0.01^\circ\text{C}$ for temperature and for pressure $\pm 0.25\%$ of full range (600dbar). Data from this CTD are not shown in this report, but a comparison between the different instruments is given.

SD: Sensordata SD-200, with an internal memory for data storing. The SD measures temperature, salinity and depth. It makes one measurement each 2 seconds. No accuracy was given from the manufacturer for this instrument.

The differences between the instrument parameters were observed at 5m intervals (Figure 2, page 4). Data are picked at as equal depths as possible, and the differences in temperature and salinity have been calculated for each depth. The upper 20m are ignored, because of the

great gradients here. The differences between the instruments are given by the mean values of temperature and salinity differences.

The difference between the ME and the SD (mean value ± std deviation):

ME temperature - SD temperature: -0.02 ± 0.13

ME salinity - SD salinity: -0.18 ± 0.05

The difference between the ME and the SB (mean value ± std deviation):

ME temperature - SB temperature: 0.00 ± 0.07

ME salinity - SB salinity: -0.10 ± 0.04

No water samples were collected for calibration of the instruments, and the above comparison has not been applied to the raw data.

Observations

One transect of CTD stations were obtained northwards from the coast of the Kola peninsula, and one from 78°25'N 45°12'E in a north-north-eastward direction towards Franz Joseph Land. A short transect was done in the strait between Northbrook and Hooker Island of Franz Joseph Land (stations 19-23). In addition some shallow stations were done farther east in the archipelago. See Figure 1 and the station list below.

Station list

The station list, Table 1, gives the station number or name, date and time (UTC), position (degrees and minutes north and east), the bottom echo depth (Echo D) and the observation depth (Obs D). The latter is the point where observations stop. The observation depths are given in decibars for data from the ME and in meters for data from the SD. Observation depths are not given for the SB. Table 1 shows the instrument used: ME, SB or SD (see description page 1). The NAV column gives the navigation system used: GPS means a portable GPS (global positioning system) unit, SN means SatNavg, i.e. the satellite navigation system of the ship. A '*' means that the measurements were done from a zodiac, i.e. the positions were determined from a map, and is therefore not very precise. Stations 8,9 and 10 were biological stations. The six shallow stations near Hall Island were taken from near shore, in a southerly direction until a depth of 35m was reached.

Table 1. Station list for CTD stations R/V Dalnie Zelentsy

StNo		Date	Time	Lat	Long	Echo D	Obs D	Instr	Nav
DZ	1	Aug.12	13:39	68°23.3	38°31.6	86	82	ME	GPS
DZ	2	Aug.12	22:40	69°10.1	39°19.9	151	141	ME	SN
DZ	3	Aug.13	06:20	69°59.5	40°22.3	140	131	ME	SN
DZ	4	Aug.13	13:25	70°52.1	41°15.5	95	85	ME	GPS
DZ	5	Aug.13	17:35	71°17.3	41°44.7	170	160	ME	SN
DZ	6	Aug.14	11:10	72°25.1	43°50.6	286	272	ME	SN
DZ	7	Aug.14	17:15	73°07.8	43°48.6	345	287	ME	SN
DZ	8	No CTD							
DZ	9	No CTD							
DZ	10	No CTD							
DZ	11	Aug.17	17:45	78°26.7	45°12.9	255	240	ME	GPS
DZ	12	Aug.18	04:09	79°12.3	45°59.0	78	68	ME	SN
DZ	13	Aug.18	07:25	79°29.9	46°39.8	290	240	ME	GPS
DZ	14	Aug.18	10:00	79°34.2	46°56.6	320	288	ME SD	GPS
DZ	15	Aug.18	14:10	79°39.3	47°54.8	320	281	ME SD	GPS
DZ	16	Aug.18	21:40	79°42.2	49°18.4	240	226	ME SD	GPS
DZ	17	Aug.19	00:25	79°53.9	49°07.0	180	160	ME SD	SN
DZ	18	Aug.19	13:05	79°55.0	49°19.5	135	100	ME SB	GPS
DZ	19	Aug.21	04:15	80°06.7	51°08.9	240	220	ME SB	SN
DZ	20	Aug.21	19:45	79°58.0	52°00.4	250	189	ME SB	GPS
DZ	21	Aug.21	21:50	80°00.5	52°07.8	305	230	ME SB	GPS
DZ	22	Aug.22	00:10	79°57.4	52°35.1	300	228	ME SB	GPS
DZ	23	Aug.22	02:30	79°52.5	53°03.0	467	408	SD	GPS
BRADY1		Aug.22	11:13	80°15	55°20	10	9	SD	*
BRADY2		Aug.22	11:17	80°15	55°20	9	8	SD	*
BRADY3		Aug.22	11:23	80°15	55°20	3	2	SD	*
DZ	24	Aug.23	14:30	80°02.4	58°17.4	305	267	ME SB	
HALL1		Aug.23	17:38	80°06	57°50	4	3	SD	*
HALL2		Aug.23	17:46	80°06	57°50	9	8	SD	*
HALL3		Aug.23	18:18	80°06	57°50	12	11	SD	*
HALL4		Aug.23	18:40	80°06	57°50	23	22	SD	*
HALL5		Aug.23	19:12	80°06	57°50	29	28	SD	*
HALL6		Aug.23	19:22	80°06	57°50	35	34	SD	*
DZ	25	Aug.24	07:15	80°09.5	59°04.7	190	165	ME SB	SN
DZ	26	Aug.24	09:20	80°12.0	59°29.6	278	261	ME SB	SN
HOCH1		Aug.24	10:13	80°13	59°40	75	74	SD	*
HOCH2		Aug.24	13:20	80°12.5	59°55	9	8	SD	*

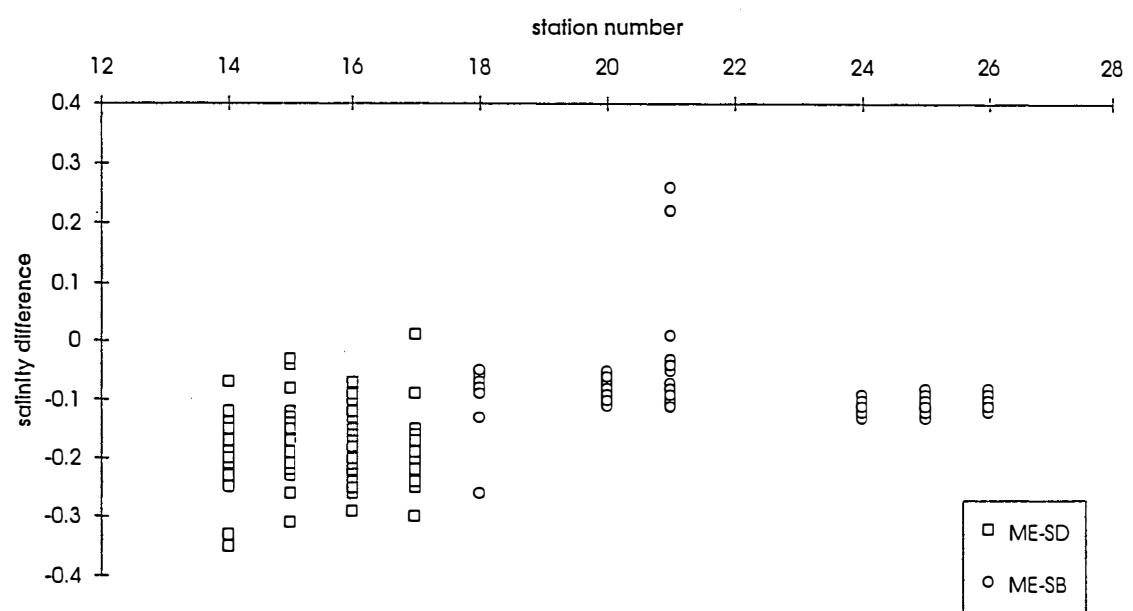
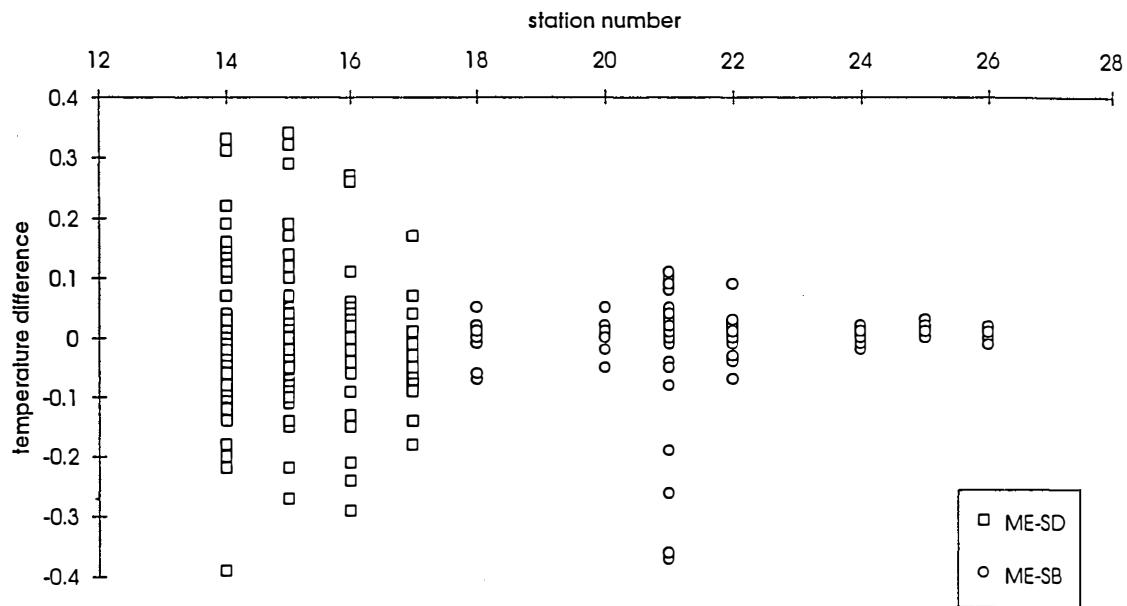


Figure 2 Differences between the instruments

Contour plots and some general results

The water masses usually present in the Barents Sea are listed in Table 2.

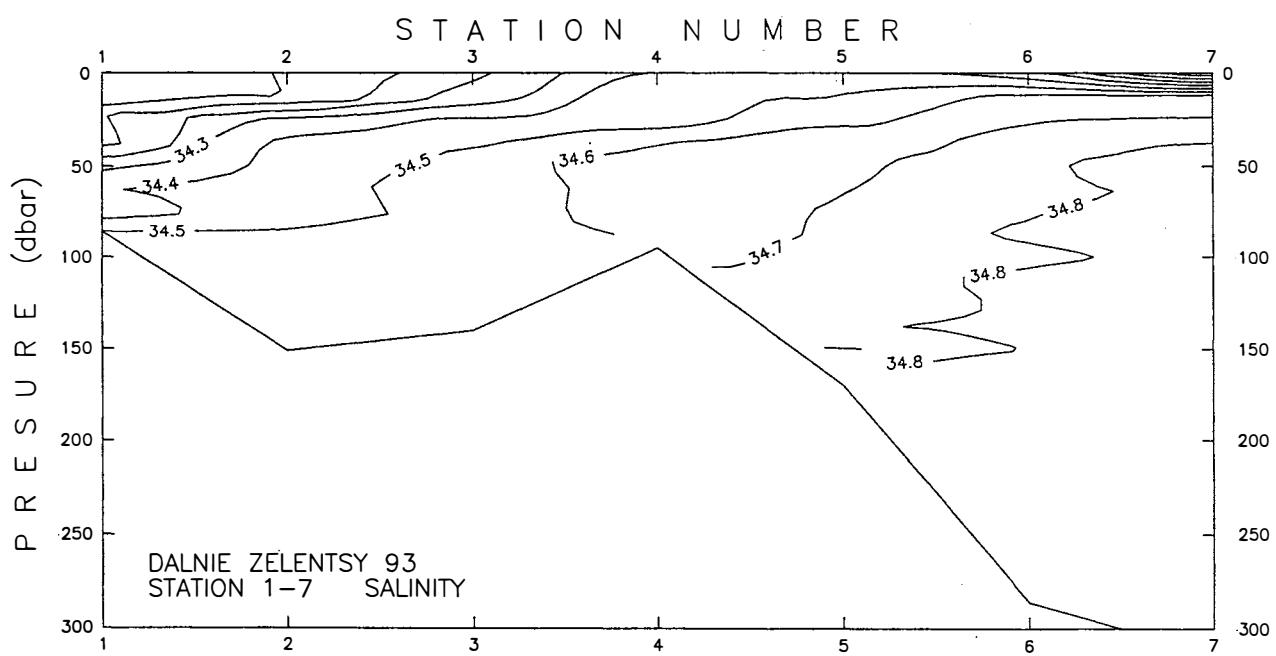
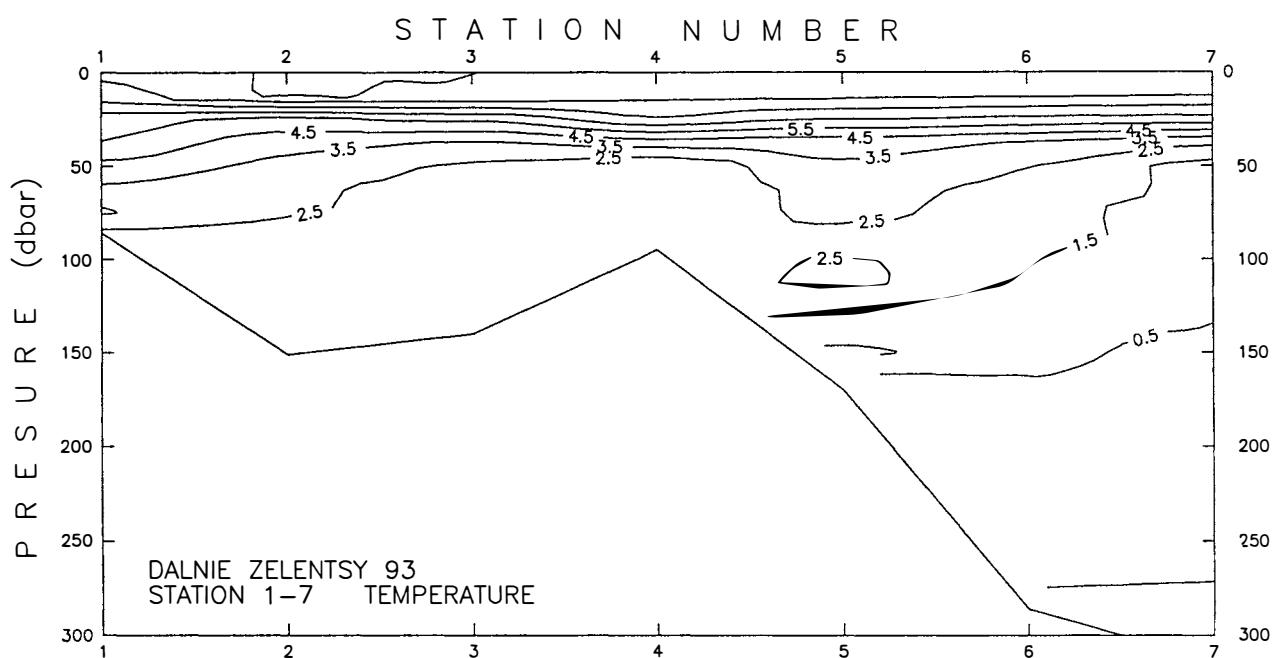
Near the coast at stations 1-6, see page 6, we observed an extension of the Norwegian Coastal Current, which outside Russia is called the Murman Coastal Current. Further north one finds what Loeng (1991) called Barents Sea Water, which is Atlantic Water transformed by mixing with Arctic Water, and affected by ice formation and melting. The rest of the stations (north of about 78°, in the vicinity of Franz Joseph Land), are dominated by Arctic Water and Melt Water.

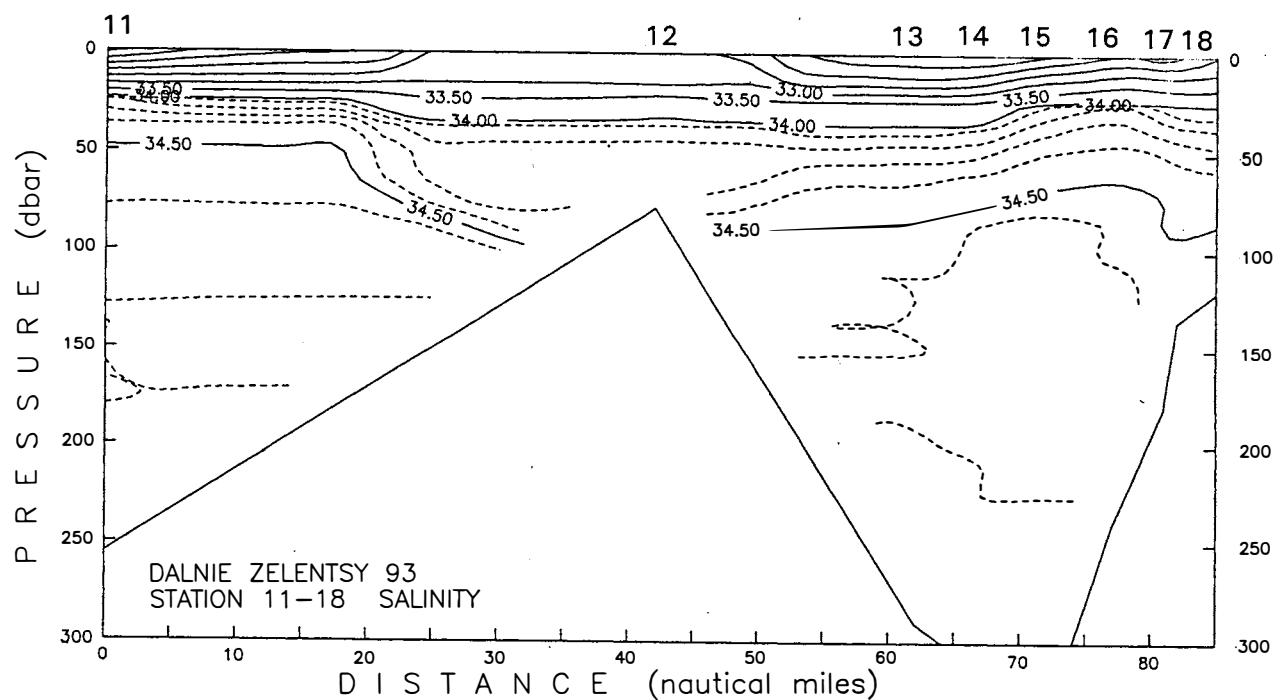
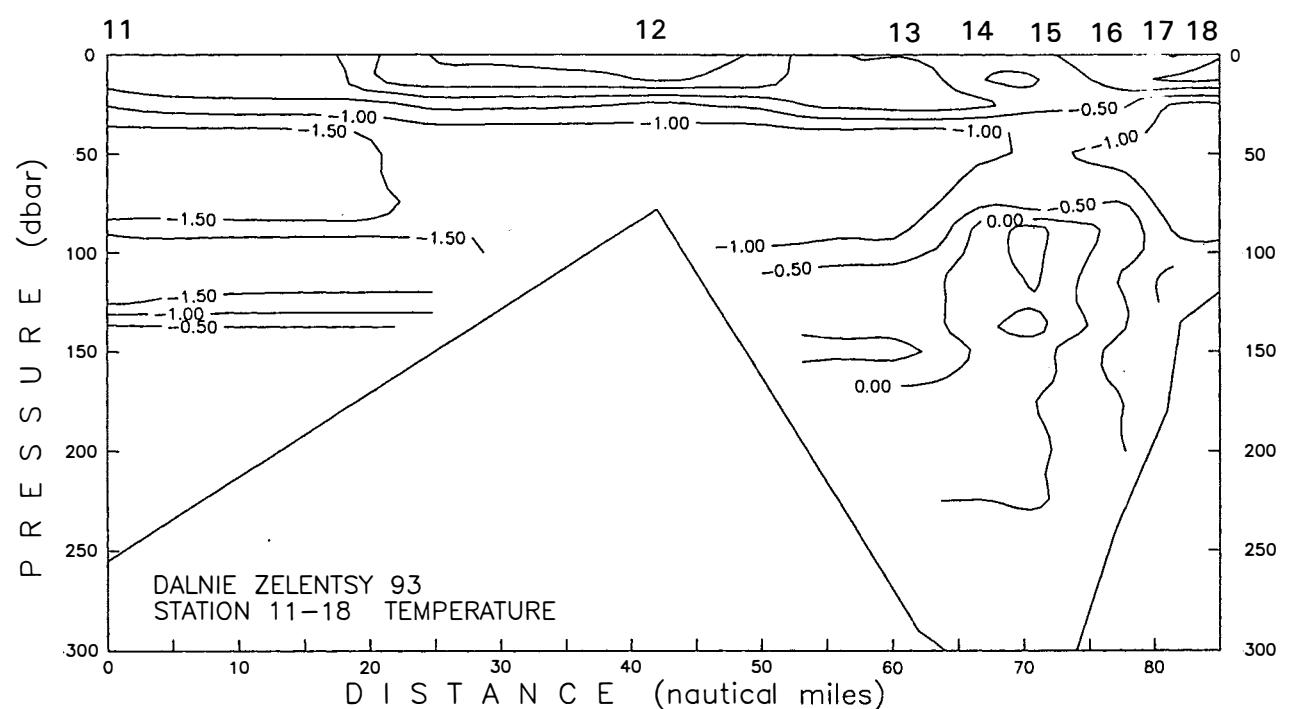
The contour plots show isolines of temperature and salinity. The depth is given in decibars for the ME data and as meters for the SD data. The difference in meters and decibars increases with depth and becomes about 2m at 300m. The software used is SURFER.

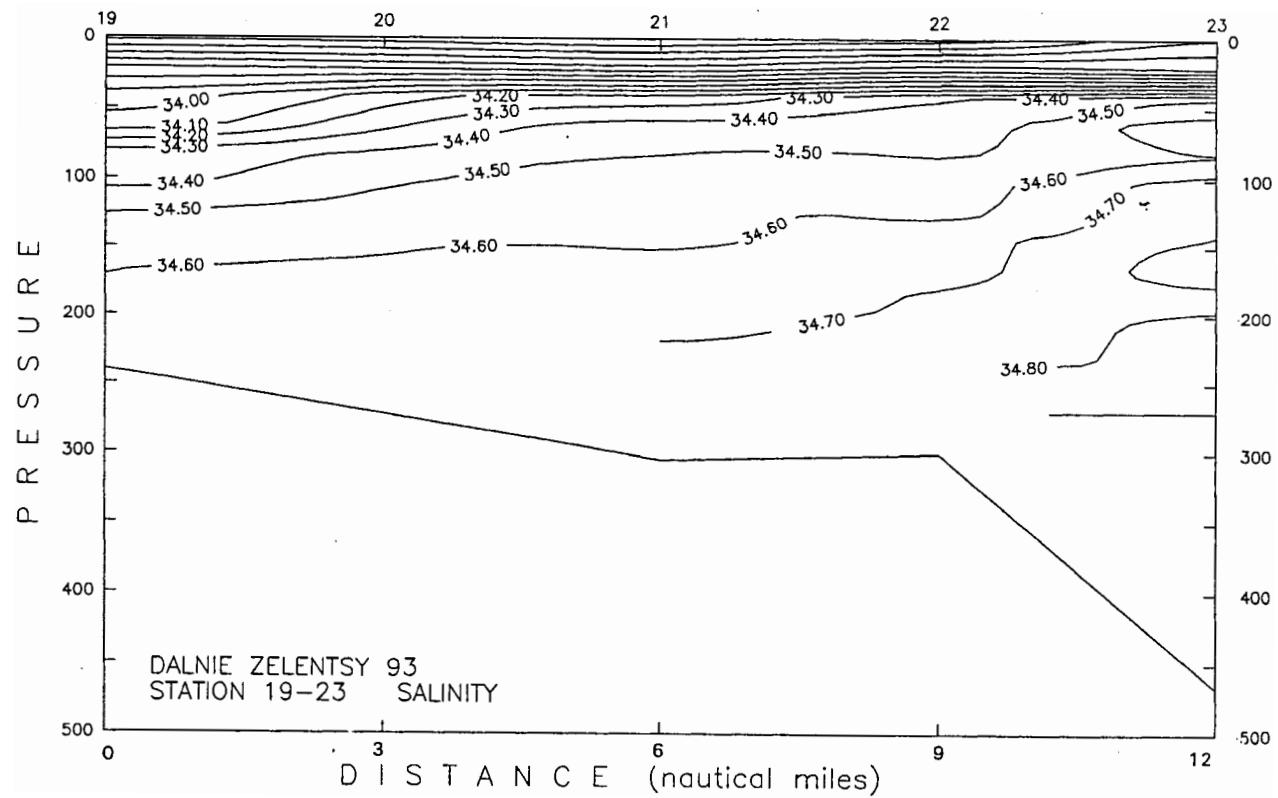
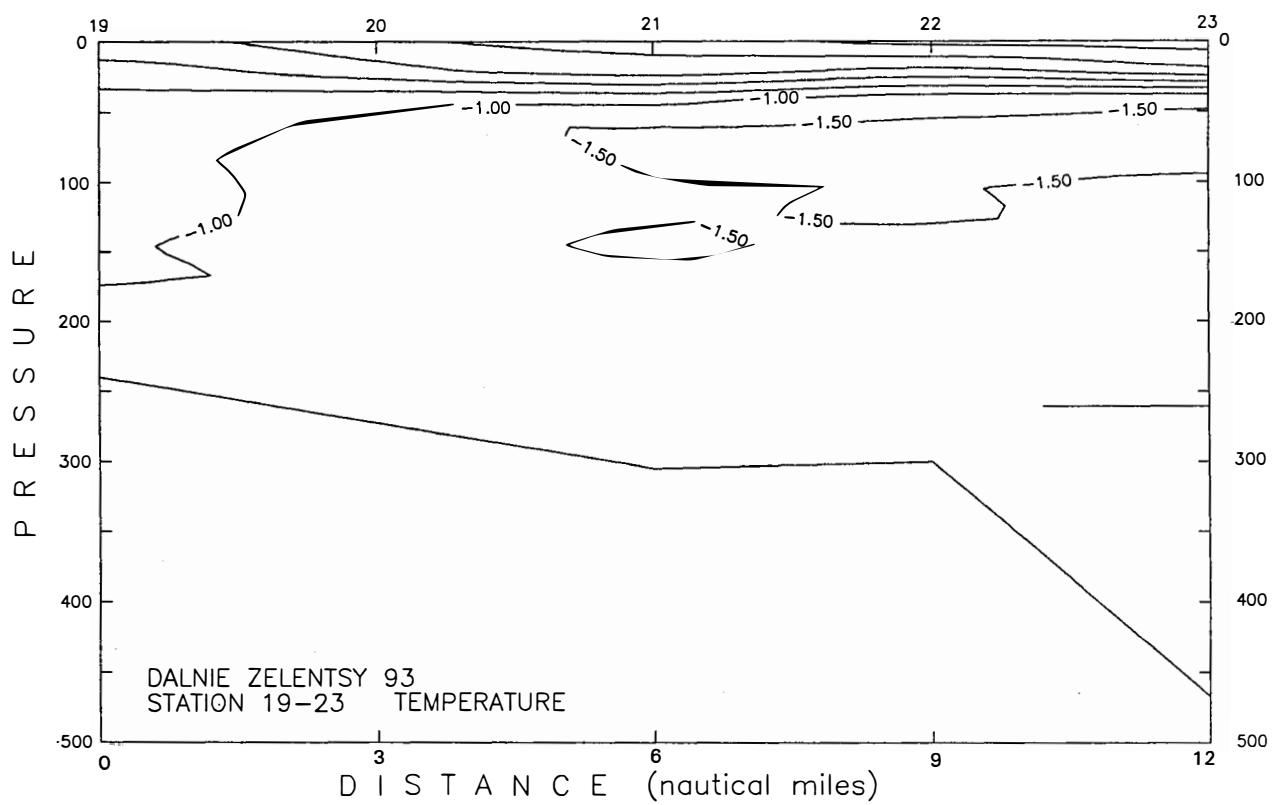
Table 2. Water masses in the Barents Sea

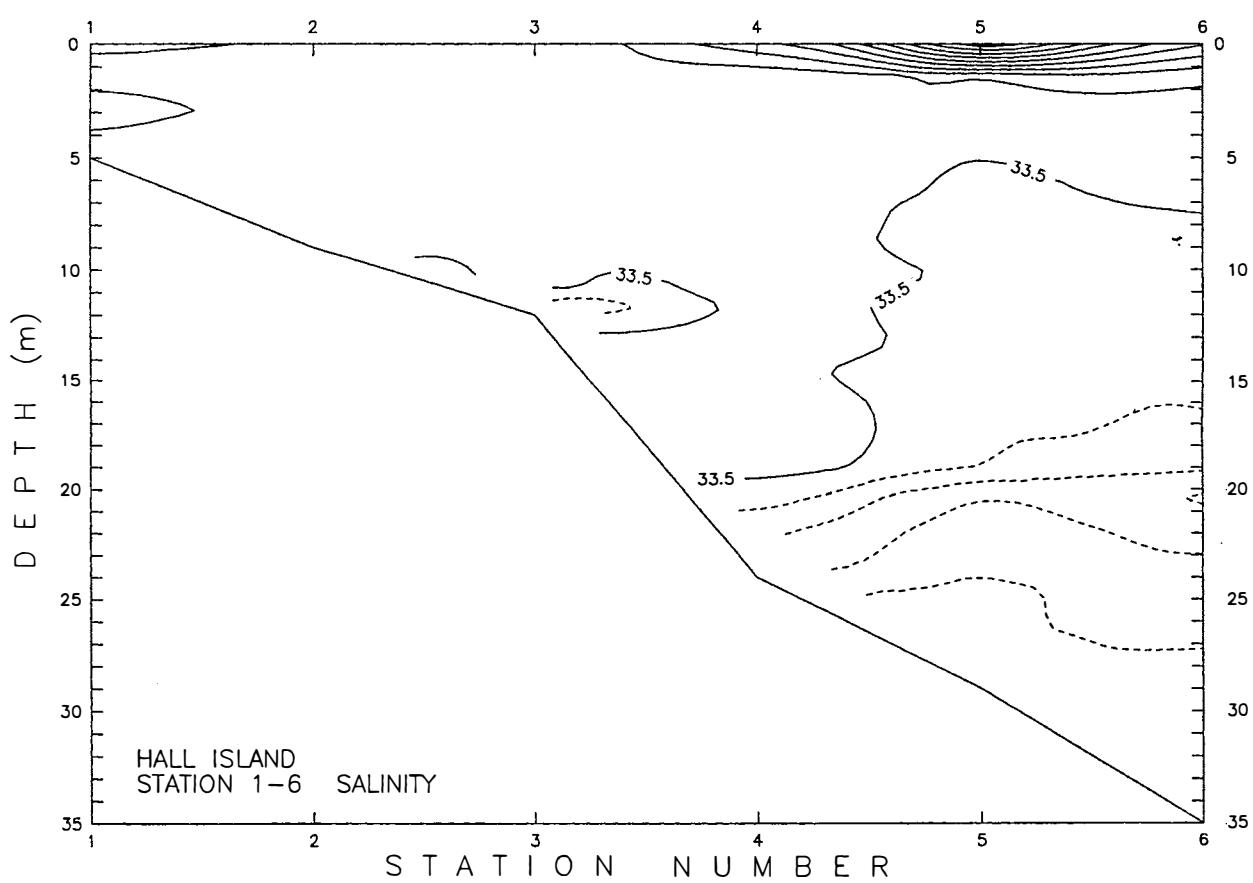
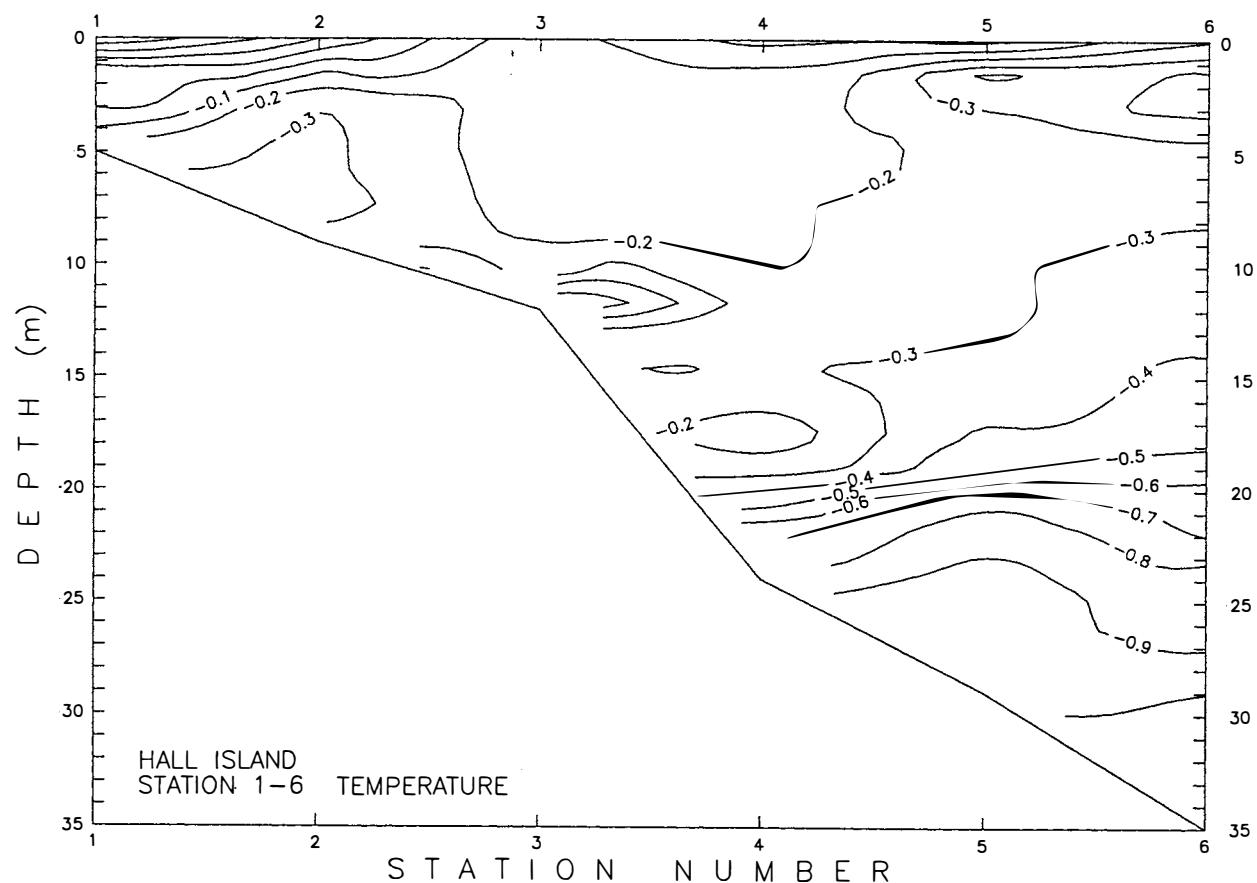
Main water masses	Characteristics		
	Temperature	Salinity	
Coastal Water	CW	>2.0	<34.7
(North) Atlantic Water	NAW	>3.0	>35.0
Arctic Water	AW	<0.0	34.4 - 34.8
Locally formed water masses			
Melt Water	MW	>0.0	<34.2
Barents Sea Water	BSW	-1.5 - 2.0	34.7 - 35.0
Polar Front Water	PFW	-0.5 - 2.0	34.8 - 35.0

From Loeng, 1991: Features of the physical oceanographic conditions of the Barents Sea; Polar Research Vol 10, No 1.









The raw data

Data listing

A selection of the data is listed, showing pressure (PRESS) or depth (pressure is shown for the ME data, depth for the SD), temperature (TEMP), potential temperature (THETA), salinity, density (σ_0) relative to surface(SIGT) and density (σ_1) relative to 1000m (SIG1). Pressure is given in dbars, depth in meters, temperature in °C, salinity in PSU and density in kg/m³. A 'ME' in the station number means that the ME was used, a 'SD' that the SD was used.

ME DZ 001

PRESS	TEMP	THETA	SAL	SIGT	SIG1
1.00	7.505	7.505	33.854	26.45	30.98
11.20	7.180	7.181	33.758	26.42	30.96
20.10	6.384	6.386	33.938	26.66	31.22
31.10	5.755	5.758	34.094	26.87	31.44
40.40	5.460	5.463	34.071	26.89	31.46
50.60	4.922	4.926	34.154	27.01	31.60
60.10	4.387	4.391	34.230	27.13	31.74
71.50	3.829	3.834	34.309	27.25	31.87
80.00	3.653	3.658	34.354	27.31	31.93

ME DZ 002

PRESS	TEMP	THETA	SAL	SIGT	SIG1
0.40	9.782	9.782	33.964	26.18	30.67
10.80	9.791	9.792	33.977	26.19	30.68
20.00	6.259	6.261	34.231	26.91	31.47
30.90	4.182	4.184	34.429	27.31	31.92
41.70	3.503	3.506	34.481	27.42	32.05
50.80	3.078	3.081	34.495	27.47	32.11
60.10	2.809	2.813	34.491	27.50	32.14
71.00	2.491	2.495	34.482	27.52	32.17
81.60	2.285	2.289	34.491	27.54	32.19
90.70	2.155	2.160	34.498	27.56	32.21
101.10	2.009	2.014	34.508	27.58	32.24
110.10	1.945	1.951	34.508	27.58	32.24
120.80	2.039	2.045	34.533	27.59	32.25
131.00	2.032	2.039	34.550	27.61	32.27

ME DZ 003

PRESS	TEMP	THETA	SAL	SIGT	SIG1
0.70	1.0.0.62	1.0.0.62	34.142	26.27	30.75
12.00	9.925	9.926	34.221	26.36	30.84
21.30	6.365	6.367	34.404	27.03	31.59
31.10	4.150	4.152	34.468	27.35	31.95
40.00	3.109	3.111	34.509	27.48	32.12
50.90	2.181	2.184	34.492	27.55	32.21
61.00	1.929	1.932	34.496	27.57	32.24
71.40	1.881	1.885	34.502	27.58	32.25
80.80	1.877	1.881	34.536	27.61	32.27
90.60	1.808	1.813	34.565	27.64	32.30
100.30	1.812	1.817	34.566	27.64	32.30
110.50	1.820	1.826	34.567	27.64	32.30
120.10	1.823	1.829	34.571	27.64	32.31
131.20	1.825	1.832	34.569	27.64	32.31

ME DZ 004

PRESS	TEMP	THETA	SAL	SIGT	SIG1
0.50	8.806	8.806	34.501	26.76	31.26
12.80	8.638	8.639	34.519	26.80	31.31
22.00	8.089	8.091	34.505	26.87	31.39
30.50	5.643	5.645	34.557	27.25	31.82
41.00	3.571	3.574	34.642	27.54	32.17
51.40	1.411	1.413	34.662	27.75	32.42
62.90	1.383	1.386	34.641	27.73	32.41

7 2 . 1 0	1 . 3 8 1	1 . 3 8 4	3 4 . 6 4 2	2 7 . 7 3	3 2 . 4 1
8 0 . 7 0	1 . 3 8 4	1 . 3 8 8	3 4 . 6 4 1	2 7 . 7 3	3 2 . 4 1

M E D Z 0 0 5

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 7 0	9 . 0 5 6	9 . 0 5 6	3 4 . 4 3 2	2 6 . 6 6	3 1 . 1 6
1 0 . 4 0	8 . 8 9 9	8 . 9 0 0	3 4 . 4 4 6	2 6 . 7 0	3 1 . 2 0
2 1 . 7 0	7 . 1 9 8	7 . 2 0 0	3 4 . 5 5 3	2 7 . 0 4	3 1 . 5 8
3 0 . 4 0	5 . 4 5 4	5 . 4 5 6	3 4 . 6 1 7	2 7 . 3 2	3 1 . 8 9
4 1 . 5 0	3 . 4 1 0	3 . 4 1 3	3 4 . 6 3 3	2 7 . 5 5	3 2 . 1 8
5 0 . 1 0	3 . 4 2 3	3 . 4 2 6	3 4 . 6 9 5	2 7 . 6 0	3 2 . 2 3
6 2 . 0 0	3 . 0 8 9	3 . 0 9 3	3 4 . 6 8 6	2 7 . 6 3	3 2 . 2 6
7 0 . 6 0	3 . 0 6 3	3 . 0 6 7	3 4 . 7 0 6	2 7 . 6 4	3 2 . 2 8
8 0 . 4 0	2 . 9 8 3	2 . 9 8 8	3 4 . 7 1 3	2 7 . 6 6	3 2 . 2 9
9 0 . 4 0	2 . 3 2 3	2 . 3 2 8	3 4 . 6 3 0	2 7 . 6 5	3 2 . 3 0
1 0 0 . 2 0	2 . 6 5 0	2 . 6 5 6	3 4 . 7 0 6	2 7 . 6 8	3 2 . 3 2
1 1 0 . 3 0	2 . 7 6 7	2 . 7 7 4	3 4 . 7 4 0	2 7 . 7 0	3 2 . 3 4
1 2 0 . 8 0	2 . 3 9 5	2 . 4 0 2	3 4 . 7 1 5	2 7 . 7 1	3 2 . 3 6
1 3 1 . 0 0	1 . 7 3 8	1 . 7 4 5	3 4 . 6 8 1	2 7 . 7 4	3 2 . 4 0
1 4 0 . 4 0	1 . 7 1 7	1 . 7 2 4	3 4 . 6 7 8	2 7 . 7 4	3 2 . 4 0
1 5 0 . 1 0	1 . 6 8 4	1 . 6 9 2	3 4 . 6 8 9	2 7 . 7 5	3 2 . 4 2

M E D Z 0 0 6

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
1 . 2 0	8 . 7 0 5	8 . 7 0 5	3 4 . 6 5 1	2 6 . 8 9	3 1 . 4 0
1 0 . 6 0	8 . 6 7 6	8 . 6 7 7	3 4 . 6 3 5	2 6 . 8 8	3 1 . 3 9
2 1 . 8 0	7 . 7 2 8	7 . 7 3 0	3 4 . 6 5 0	2 7 . 0 4	3 1 . 5 7
3 0 . 8 0	4 . 7 1 2	4 . 7 1 4	3 4 . 7 7 0	2 7 . 5 3	3 2 . 1 2
4 1 . 9 0	3 . 2 5 2	3 . 2 5 5	3 4 . 7 9 6	2 7 . 7 0	3 2 . 3 3
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8 0 . 2 0	2 . 0 1 5	2 . 0 1 9	3 4 . 8 3 3	2 7 . 8 4	3 2 . 5 0
9 0 . 7 0	1 . 8 3 6	1 . 8 4 1	3 4 . 8 4 6	2 7 . 8 6	3 2 . 5 2
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1 3 0 . 0 0	1 . 0 3 0	1 . 0 3 6	3 4 . 8 6 4	2 7 . 9 3	3 2 . 6 2
1 4 0 . 2 0	0 . 9 8 0	0 . 9 8 6	3 4 . 8 6 4	2 7 . 9 4	3 2 . 6 2
1 5 0 . 7 0	0 . 7 3 7	0 . 7 4 4	3 4 . 8 6 7	2 7 . 9 6	3 2 . 6 5
1 6 0 . 5 0	0 . 5 5 6	0 . 5 6 3	3 4 . 8 6 7	2 7 . 9 7	3 2 . 6 6
1 7 0 . 9 0	0 . 4 2 6	0 . 4 3 3	3 4 . 8 6 5	2 7 . 9 7	3 2 . 6 7
1 8 0 . 2 0	0 . 3 2 4	0 . 3 3 1	3 4 . 8 5 9	2 7 . 9 7	3 2 . 6 8
1 9 0 . 9 0	0 . 2 0 2	0 . 2 0 9	3 4 . 8 5 8	2 7 . 9 8	3 2 . 6 9
2 0 0 . 6 0	0 . 1 2 6	0 . 1 3 4	3 4 . 8 5 5	2 7 . 9 8	3 2 . 6 9
2 1 0 . 9 0	0 . 0 8 7	0 . 0 9 5	3 4 . 8 5 2	2 7 . 9 8	3 2 . 6 9
2 2 0 . 6 0	0 . 0 5 0	0 . 0 5 8	3 4 . 8 5 2	2 7 . 9 8	3 2 . 7 0
2 3 0 . 7 0	0 . 0 2 7	0 . 0 3 6	3 4 . 8 5 1	2 7 . 9 8	3 2 . 7 0
2 4 0 . 2 0	- 0 . 0 1 3	- 0 . 0 0 4	3 4 . 8 4 9	2 7 . 9 9	3 2 . 7 0
2 5 1 . 5 0	- 0 . 0 5 5	- 0 . 0 4 6	3 4 . 8 4 9	2 7 . 9 9	3 2 . 7 0
2 6 0 . 9 0	- 0 . 0 8 1	- 0 . 0 7 1	3 4 . 8 5 1	2 7 . 9 9	3 2 . 7 1
2 7 0 . 9 0	- 0 . 0 8 2	- 0 . 0 7 2	3 4 . 8 5 0	2 7 . 9 9	3 2 . 7 1

M E D Z 0 0 7

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
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5 0 . 1 0	1 . 0 7 9	1 . 0 8 1	3 4 . 8 9 0	2 7 . 9 5	3 2 . 6 3
6 1 . 1 0	0 . 8 6 8	0 . 8 7 1	3 4 . 8 3 9	2 7 . 9 2	3 2 . 6 1
7 0 . 3 0	0 . 4 7 6	0 . 4 7 9	3 4 . 8 4 0	2 7 . 9 5	3 2 . 6 5
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9 1 . 9 0	0 . 1 9 3	0 . 1 9 6	3 4 . 8 4 4	2 7 . 9 7	3 2 . 6 8
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2 0 0 . 2 0	- 0 . 3 7 4	- 0 . 3 6 7	3 4 . 8 3 8	2 7 . 9 9	3 2 . 7 2
2 1 0 . 7 0	- 0 . 4 1 9	- 0 . 4 1 2	3 4 . 8 4 4	2 8 . 0 0	3 2 . 7 3

2 2 0 . 5 0	- 0 . 4 6 6	- 0 . 4 5 9	3 4 . 8 3 8	2 8 . 0 0	3 2 . 7 3
2 3 0 . 6 0	- 0 . 5 0 4	- 0 . 4 9 6	3 4 . 8 4 5	2 8 . 0 1	3 2 . 7 3
2 4 0 . 6 0	- 0 . 5 1 8	- 0 . 5 1 0	3 4 . 8 3 8	2 8 . 0 0	3 2 . 7 3
2 5 0 . 6 0	- 0 . 5 4 1	- 0 . 5 3 3	3 4 . 8 4 2	2 8 . 0 1	3 2 . 7 3
2 6 0 . 4 0	- 0 . 5 5 5	- 0 . 5 4 6	3 4 . 8 4 1	2 8 . 0 1	3 2 . 7 3
2 7 0 . 2 0	- 0 . 5 7 6	- 0 . 5 6 7	3 4 . 8 3 9	2 8 . 0 0	3 2 . 7 3
2 8 1 . 7 0	- 0 . 6 0 3	- 0 . 5 9 4	3 4 . 8 3 7	2 8 . 0 0	3 2 . 7 4

M E	D Z	0 1 1			
	P R E S S	T E M P	T H E T A	S A L	S I G T
0 . 9 0	- 0 . 0 4 3	- 0 . 0 4 3	3 0 . 2 2 2	2 4 . 2 5	2 9 . 0 1
1 0 . 4 0	- 0 . 0 7 7	- 0 . 0 7 7	3 2 . 1 9 4	2 5 . 8 4	3 0 . 5 8
2 1 . 0 0	- 0 . 5 0 4	- 0 . 5 0 3	3 4 . 0 5 5	2 7 . 3 7	3 2 . 1 0
3 1 . 6 0	- 1 . 3 7 2	- 1 . 3 7 1	3 4 . 3 6 9	2 7 . 6 6	3 2 . 4 1
4 0 . 3 0	- 1 . 6 1 8	- 1 . 6 1 7	3 4 . 4 3 6	2 7 . 7 2	3 2 . 4 8
5 0 . 8 0	- 1 . 6 8 0	- 1 . 6 7 9	3 4 . 5 2 3	2 7 . 7 9	3 2 . 5 6
6 1 . 3 0	- 1 . 6 8 4	- 1 . 6 8 3	3 4 . 5 6 1	2 7 . 8 2	3 2 . 5 9
7 0 . 0 0	- 1 . 6 6 1	- 1 . 6 6 0	3 4 . 5 7 4	2 7 . 8 3	3 2 . 6 0
8 0 . 4 0	- 1 . 5 3 9	- 1 . 5 3 7	3 4 . 6 0 8	2 7 . 8 5	3 2 . 6 2
9 0 . 7 0	- 1 . 4 2 9	- 1 . 4 2 7	3 4 . 6 3 4	2 7 . 8 7	3 2 . 6 3
1 0 0 . 9 0	- 1 . 5 9 3	- 1 . 5 9 1	3 4 . 6 5 6	2 7 . 9 0	3 2 . 6 6
1 1 1 . 1 0	- 1 . 7 5 9	- 1 . 7 5 7	3 4 . 6 6 1	2 7 . 9 0	3 2 . 6 7
1 2 1 . 4 0	- 1 . 6 6 6	- 1 . 6 6 3	3 4 . 7 1 1	2 7 . 9 4	3 2 . 7 1
1 3 1 . 5 0	- 0 . 9 7 5	- 0 . 9 7 1	3 4 . 7 9 7	2 7 . 9 9	3 2 . 7 3
1 4 1 . 2 0	- 0 . 2 2 4	- 0 . 2 1 9	3 4 . 7 7 5	2 7 . 9 4	3 2 . 6 6
1 5 1 . 2 0	- 0 . 0 8 0	- 0 . 0 7 5	3 4 . 7 9 5	2 7 . 9 5	3 2 . 6 6
1 6 1 . 2 0	- 0 . 1 6 4	- 0 . 1 5 8	3 4 . 7 4 9	2 7 . 9 1	3 2 . 6 3
1 7 1 . 2 0	- 0 . 2 9 8	- 0 . 2 9 2	3 4 . 8 0 3	2 7 . 9 6	3 2 . 6 8
1 8 0 . 9 0	- 0 . 4 3 1	- 0 . 4 2 5	3 4 . 8 0 3	2 7 . 9 7	3 2 . 7 0
1 9 0 . 6 0	- 0 . 4 3 5	- 0 . 4 2 9	3 4 . 8 1 5	2 7 . 9 8	3 2 . 7 1
2 0 0 . 4 0	- 0 . 3 8 4	- 0 . 3 7 7	3 4 . 8 1 9	2 7 . 9 8	3 2 . 7 0
2 1 0 . 2 0	- 0 . 4 5 8	- 0 . 4 5 1	3 4 . 8 3 0	2 7 . 9 9	3 2 . 7 2
2 2 0 . 8 0	- 0 . 4 5 4	- 0 . 4 4 7	3 4 . 8 2 6	2 7 . 9 9	3 2 . 7 2
2 3 0 . 5 0	- 0 . 4 5 6	- 0 . 4 4 8	3 4 . 8 2 6	2 7 . 9 9	3 2 . 7 2

M E	D Z	0 1 2			
	P R E S S	T E M P	T H E T A	S A L	S I G T
3 . 4 0	1 . 3 2 6	1 . 3 2 6	3 2 . 5 9 2	2 6 . 0 9	3 0 . 7 8
1 0 . 6 0	1 . 1 7 0	1 . 1 7 0	3 2 . 6 9 7	2 6 . 1 8	3 0 . 8 8
2 1 . 4 0	- 0 . 0 3 7	- 0 . 0 3 6	3 3 . 4 0 7	2 6 . 8 2	3 1 . 5 5
3 0 . 2 0	- 0 . 9 1 4	- 0 . 9 1 3	3 3 . 9 8 4	2 7 . 3 3	3 2 . 0 7
4 0 . 3 0	- 1 . 2 3 8	- 1 . 2 3 7	3 4 . 1 6 1	2 7 . 4 8	3 2 . 2 4
5 0 . 2 0	- 1 . 3 5 5	- 1 . 3 5 4	3 4 . 2 6 4	2 7 . 5 7	3 2 . 3 3
6 0 . 8 0	- 1 . 3 5 7	- 1 . 3 5 6	3 4 . 2 7 2	2 7 . 5 8	3 2 . 3 3

M E	D Z	0 1 3			
	P R E S S	T E M P	T H E T A	S A L	S I G T
2 . 3 0	0 . 1 6 4	0 . 1 6 4	3 1 . 1 4 5	2 4 . 9 9	2 9 . 7 3
1 1 1 . 4 0	0 . 4 6 1	0 . 4 6 1	3 1 . 9 5 9	2 5 . 6 3	3 0 . 3 5
2 0 . 3 0	0 . 7 0 5	0 . 7 0 6	3 3 . 3 9 6	2 6 . 7 7	3 1 . 4 8
3 1 . 0 0	- 0 . 5 7 5	- 0 . 5 7 4	3 3 . 8 7 3	2 7 . 2 2	3 1 . 9 6
4 1 . 3 0	- 1 . 1 6 3	- 1 . 1 6 2	3 4 . 1 1 1	2 7 . 4 4	3 2 . 1 9
5 1 . 3 0	- 1 . 2 3 9	- 1 . 2 3 8	3 4 . 2 6 0	2 7 . 5 6	3 2 . 3 2
6 1 . 2 0	- 1 . 4 9 5	- 1 . 4 9 4	3 4 . 3 6 5	2 7 . 6 6	3 2 . 4 2
7 1 . 0 0	- 1 . 4 6 5	- 1 . 4 6 3	3 4 . 4 3 8	2 7 . 7 1	3 2 . 4 7
8 0 . 5 0	- 1 . 3 6 3	- 1 . 3 6 1	3 4 . 4 7 1	2 7 . 7 4	3 2 . 4 9
9 0 . 0 0	- 1 . 3 1 4	- 1 . 3 1 2	3 4 . 5 0 2	2 7 . 7 6	3 2 . 5 2
1 0 1 . 3 0	- 0 . 9 2 3	- 0 . 9 2 0	3 4 . 5 1 8	2 7 . 7 6	3 2 . 5 0
1 1 1 . 3 0	- 0 . 0 4 3	- 0 . 0 3 9	3 4 . 6 0 3	2 7 . 7 9	3 2 . 5 0
1 2 0 . 4 0	- 0 . 6 4 4	- 0 . 6 4 0	3 4 . 5 6 8	2 7 . 7 9	3 2 . 5 2
1 3 0 . 8 0	- 0 . 3 6 8	- 0 . 3 6 4	3 4 . 5 9 4	2 7 . 8 0	3 2 . 5 2
1 4 1 . 4 0	- 0 . 5 8 7	- 0 . 5 8 3	3 4 . 5 8 7	2 7 . 8 0	3 2 . 5 3
1 5 0 . 3 0	- 0 . 8 0 4	- 0 . 8 0 0	3 4 . 5 8 1	2 7 . 8 1	3 2 . 5 4
1 6 0 . 7 0	- 0 . 4 8 3	- 0 . 4 7 8	3 4 . 6 5 1	2 7 . 8 5	3 2 . 5 8
1 7 1 . 1 0	0 . 2 6 0	0 . 2 6 7	3 4 . 6 8 4	2 7 . 8 4	3 2 . 5 4
1 8 1 . 0 0	0 . 0 9 4	0 . 1 0 1	3 4 . 6 7 3	2 7 . 8 4	3 2 . 5 5
1 9 1 . 3 0	0 . 3 2 6	0 . 3 3 4	3 4 . 7 0 4	2 7 . 8 5	3 2 . 5 5
2 0 1 . 2 0	0 . 1 8 9	0 . 1 9 7	3 4 . 7 1 2	2 7 . 8 6	3 2 . 5 7
2 1 1 . 3 0	0 . 2 0 9	0 . 2 1 7	3 4 . 7 2 6	2 7 . 8 7	3 2 . 5 8
2 2 1 . 3 0	0 . 0 1 1	0 . 0 1 9	3 4 . 7 2 3	2 7 . 8 8	3 2 . 6 0
2 3 0 . 4 0	0 . 0 3 0	0 . 0 3 9	3 4 . 7 3 7	2 7 . 8 9	3 2 . 6 1
2 4 0 . 1 0	- 0 . 2 2 4	- 0 . 2 1 5	3 4 . 7 4 0	2 7 . 9 1	3 2 . 6 3

M E	D Z	0 1 4			
	P R E S S	T E M P	T H E T A	S A L	S I G T
0 . 5 0	- 0 . 3 0 3	- 0 . 3 0 3	3 0 . 9 7 4	2 4 . 8 7	2 9 . 6 2

1 0 . 3 0	- 0 . 5 8 8	- 0 . 5 8 8	3 1 . 4 0 9	2 5 . 2 3	2 9 . 9 9
2 0 - 7 0	0 . 7 4 3	0 . 7 4 4	3 3 . 4 4 3	2 6 . 8 1	3 1 . 5 1
3 1 . 8 0	- 0 . 5 7 4	- 0 . 5 7 3	3 3 . 9 6 4	2 7 . 3 0	3 2 . 0 3
4 0 . 8 0	- 1 . 1 9 5	- 1 . 1 9 4	3 4 . 1 5 4	2 7 . 4 7	3 2 . 2 3
5 1 . 7 0	- 1 . 1 6 9	- 1 . 1 6 8	3 4 . 2 8 1	2 7 . 5 8	3 2 . 3 3
6 0 . 8 0	- 0 . 8 5 9	- 0 . 8 5 7	3 4 . 4 1 2	2 7 . 6 7	3 2 . 4 1
7 1 - 6 0	- 0 . 3 4 2	- 0 . 3 4 0	3 4 . 4 6 2	2 7 . 6 9	3 2 . 4 2
8 0 . 6 0	- 0 . 7 4 2	- 0 . 7 4 0	3 4 . 5 2 3	2 7 . 7 6	3 2 . 4 9
9 1 . 2 0	0 . 4 8 9	0 . 4 9 3	3 4 . 6 2 3	2 7 . 7 7	3 2 . 4 8
1 0 0 . 1 0	0 . 3 5 5	0 . 3 5 9	3 4 . 6 2 9	2 7 . 7 9	3 2 . 4 9
1 1 0 . 7 0	0 . 1 6 7	0 . 1 7 1	3 4 . 6 1 4	2 7 . 7 9	3 2 . 5 0
1 2 1 . 3 0	0 . 3 5 2	0 . 3 5 7	3 4 . 6 2 4	2 7 . 7 8	3 2 . 4 9
1 3 1 . 8 0	0 . 4 2 6	0 . 4 3 1	3 4 . 6 4 3	2 7 . 7 9	3 2 . 5 0
1 4 0 . 3 0	0 . 4 3 0	0 . 4 3 6	3 4 . 6 3 5	2 7 . 7 9	3 2 . 4 9
1 5 0 . 6 0	0 . 2 2 0	0 . 2 2 6	3 4 . 6 4 7	2 7 . 8 1	3 2 . 5 2
1 6 0 . 9 0	0 . 1 6 4	0 . 1 7 0	3 4 . 6 3 6	2 7 . 8 0	3 2 . 5 1
1 7 1 . 3 0	0 . 1 5 5	0 . 1 6 2	3 4 . 6 5 4	2 7 . 8 2	3 2 . 5 3
1 8 1 . 3 0	0 . 2 5 4	0 . 2 6 1	3 4 . 6 7 0	2 7 . 8 3	3 2 . 5 3
1 9 1 . 4 0	0 . 2 9 1	0 . 2 9 9	3 4 . 6 6 9	2 7 . 8 2	3 2 . 5 3
2 0 1 . 3 0	0 . 3 8 3	0 . 3 9 1	3 4 . 6 9 4	2 7 . 8 4	3 2 . 5 4
2 1 1 . 2 0	0 . 2 1 5	0 . 2 2 3	3 4 . 7 0 9	2 7 . 8 6	3 2 . 5 7
2 2 1 . 2 0	0 . 1 0 1	0 . 1 0 9	3 4 . 7 0 0	2 7 . 8 6	3 2 . 5 7
2 3 1 . 2 0	- 0 . 2 4 9	- 0 . 2 4 1	3 4 . 6 9 9	2 7 . 8 8	3 2 . 6 0
2 4 0 . 8 0	- 0 . 3 1 2	- 0 . 3 0 4	3 4 . 7 1 5	2 7 . 8 9	3 2 . 6 2
2 5 0 . 5 0	- 0 . 0 2 3	- 0 . 0 1 4	3 4 . 7 2 9	2 7 . 8 9	3 2 . 6 0
2 6 0 . 4 0	- 0 . 3 2 2	- 0 . 3 1 3	3 4 . 7 3 9	2 7 . 9 1	3 2 . 6 4
2 7 0 . 1 0	- 0 . 4 5 1	- 0 . 4 4 2	3 4 . 7 3 6	2 7 . 9 2	3 2 . 6 4
2 8 1 . 2 0	- 0 . 4 3 1	- 0 . 4 2 1	3 4 . 7 4 1	2 7 . 9 2	3 2 . 6 5

M E D Z 0 1 5

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 7 0	- 0 . 2 2 4	- 0 . 2 2 4	3 1 . 3 4 0	2 5 . 1 6	2 9 . 9 1
1 0 . 4 0	- 0 . 8 7 7	- 0 . 8 7 7	3 2 . 2 6 7	2 5 . 9 3	3 0 . 7 0
2 1 . 4 0	- 0 . 3 1 5	- 0 . 3 1 4	3 3 . 9 9 8	2 7 . 3 1	3 2 . 0 4
3 0 . 6 0	- 0 . 7 8 0	- 0 . 7 7 9	3 4 . 1 1 9	2 7 . 4 3	3 2 . 1 7
4 1 . 5 0	- 0 . 8 3 8	- 0 . 8 3 7	3 4 . 3 0 0	2 7 . 5 8	3 2 . 3 2
5 0 . 5 0	- 0 . 9 2 2	- 0 . 9 2 1	3 4 . 4 0 5	2 7 . 6 7	3 2 . 4 1
6 1 . 4 0	- 0 . 8 5 6	- 0 . 8 5 4	3 4 . 4 6 7	2 7 . 7 2	3 2 . 4 6
7 0 . 5 0	- 1 . 1 2 8	- 1 . 1 2 6	3 4 . 4 6 6	2 7 . 7 3	3 2 . 4 7
8 1 . 4 0	- 0 . 3 3 5	- 0 . 3 3 2	3 4 . 5 3 2	2 7 . 7 5	3 2 . 4 7
9 0 . 2 0	0 . 7 5 6	0 . 7 6 0	3 4 . 6 4 3	2 7 . 7 7	3 2 . 4 7
1 0 0 . 5 0	0 . 6 0 4	0 . 6 0 8	3 4 . 6 3 4	2 7 . 7 8	3 2 . 4 7
1 1 1 . 0 0	0 . 5 8 8	0 . 5 9 3	3 4 . 6 3 8	2 7 . 7 8	3 2 . 4 8
1 2 1 . 3 0	0 . 4 4 2	0 . 4 4 7	3 4 . 6 2 9	2 7 . 7 8	3 2 . 4 8
1 3 1 . 4 0	0 . 5 9 4	0 . 5 9 9	3 4 . 6 4 7	2 7 . 7 9	3 2 . 4 9
1 4 1 . 5 0	0 . 6 3 7	0 . 6 4 3	3 4 . 6 3 2	2 7 . 7 7	3 2 . 4 7
1 5 1 . 4 0	0 . 1 6 1	0 . 1 6 7	3 4 . 6 0 7	2 7 . 7 8	3 2 . 4 9
1 6 1 . 3 0	0 . 2 4 4	0 . 2 5 0	3 4 . 6 4 7	2 7 . 8 1	3 2 . 5 2
1 7 1 . 3 0	0 . 0 5 3	0 . 0 5 9	3 4 . 6 3 4	2 7 . 8 1	3 2 . 5 2
1 8 0 . 1 0	0 . 1 7 2	0 . 1 7 9	3 4 . 6 4 3	2 7 . 8 1	3 2 . 5 2
1 9 1 . 1 0	0 . 0 2 6	0 . 0 3 3	3 4 . 6 5 7	2 7 . 8 3	3 2 . 5 4
2 0 0 . 8 0	0 . 1 1 7	0 . 1 2 5	3 4 . 6 7 6	2 7 . 8 4	3 2 . 5 5
2 1 0 . 5 0	0 . 1 2 0	0 . 1 2 8	3 4 . 6 8 5	2 7 . 8 5	3 2 . 5 6
2 2 0 . 2 0	0 . 1 1 0	0 . 1 1 8	3 4 . 6 9 7	2 7 . 8 6	3 2 . 5 7
2 3 1 . 2 0	- 0 . 1 4 1	- 0 . 1 3 3	3 4 . 6 8 1	2 7 . 8 6	3 2 . 5 7
2 4 0 . 9 0	0 . 1 1 9	0 . 1 2 8	3 4 . 8 1 0	2 7 . 9 5	3 2 . 6 6
2 5 0 . 2 0	- 0 . 0 8 2	- 0 . 0 7 3	3 4 . 7 2 5	2 7 . 8 9	3 2 . 6 1
2 6 1 . 3 0	- 0 . 2 7 5	- 0 . 2 6 6	3 4 . 7 3 3	2 7 . 9 0	3 2 . 6 3
2 7 0 . 4 0	- 0 . 3 3 8	- 0 . 3 2 9	3 4 . 7 4 0	2 7 . 9 1	3 2 . 6 4

M E D Z 0 1 6

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 7 0	0 . 5 3 3	0 . 5 3 3	3 2 . 0 5 1	2 5 . 7 0	3 0 . 4 2
1 0 . 8 0	0 . 3 0 7	0 . 3 0 7	3 2 . 7 8 4	2 6 . 3 0	3 1 . 0 2
2 0 - 7 0	- 0 . 2 3 4	- 0 . 2 3 3	3 4 . 1 8 4	2 7 . 4 6	3 2 . 1 8
3 1 . 5 0	- 0 . 4 3 1	- 0 . 4 3 0	3 4 . 2 9 0	2 7 . 5 5	3 2 . 2 8
4 0 . 0 0	- 0 . 8 5 4	- 0 . 8 5 3	3 4 . 4 0 4	2 7 . 6 6	3 2 . 4 1
5 0 . 5 0	- 1 . 1 5 7	- 1 . 1 5 6	3 4 . 4 5 6	2 7 . 7 2	3 2 . 4 7
6 1 . 0 0	- 0 . 9 3 8	- 0 . 9 3 6	3 4 . 4 9 3	2 7 . 7 4	3 2 . 4 8
7 1 . 6 0	- 0 . 5 3 2	- 0 . 5 3 0	3 4 . 5 3 7	2 7 . 7 6	3 2 . 4 9
8 0 . 4 0	- 0 . 1 1 2	- 0 . 1 0 9	3 4 . 5 8 6	2 7 . 7 8	3 2 . 5 0
9 0 . 7 0	- 0 . 2 7 1	- 0 . 2 6 8	3 4 . 5 9 2	2 7 . 7 9	3 2 . 5 1
1 0 1 . 1 0	- 0 . 2 8 5	- 0 . 2 8 2	3 4 . 5 9 1	2 7 . 7 9	3 2 . 5 1
1 1 1 - 4 0	- 0 . 5 4 2	- 0 . 5 3 8	3 4 . 5 9 8	2 7 . 8 1	3 2 . 5 4
1 2 1 . 6 0	- 0 . 4 3 7	- 0 . 4 3 3	3 4 . 6 0 8	2 7 . 8 1	3 2 . 5 4
1 3 0 . 0 0	- 0 . 3 1 6	- 0 . 3 1 2	3 4 . 6 2 9	2 7 . 8 2	3 2 . 5 5
1 4 1 . 6 0	- 0 . 3 9 6	- 0 . 3 9 1	3 4 . 6 4 1	2 7 . 8 4	3 2 . 5 6
1 5 1 . 6 0	- 0 . 5 9 4	- 0 . 5 8 9	3 4 . 6 3 8	2 7 . 8 4	3 2 . 5 8

1 6 0 . 0 0	- 0 . 7 1 2	- 0 . 7 0 7	3 4 . 6 3 0	2 7 . 8 4	3 2 . 5 8
1 7 1 . 6 0	- 0 . 5 4 2	- 0 . 5 3 6	3 4 . 6 7 5	2 7 . 8 7	3 2 . 6 0
1 8 1 . 5 0	- 0 . 2 7 6	- 0 . 2 7 0	3 4 . 6 9 0	2 7 . 8 7	3 2 . 5 9
1 9 1 . 4 0	- 0 . 6 0 3	- 0 . 5 9 7	3 4 . 6 8 5	2 7 . 8 8	3 2 . 6 1
2 0 1 . 3 0	- 0 . 4 8 3	- 0 . 4 7 6	3 4 . 7 0 5	2 7 . 8 9	3 2 . 6 2
2 1 1 . 1 0	- 0 . 7 7 6	- 0 . 7 7 0	3 4 . 7 0 0	2 7 . 9 0	3 2 . 6 4
2 2 0 . 6 0	- 0 . 7 4 2	- 0 . 7 3 5	3 4 . 7 0 3	2 7 . 9 0	3 2 . 6 4

M E	D Z	0 1 7	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
			0 . 3 0	- 0 . 3 0 3	- 0 . 3 0 3	3 1 . 5 3 9	2 5 . 3 3	3 0 . 0 8
			1 1 . 6 0	0 . 3 9 0	0 . 3 9 0	3 3 . 2 4 0	2 6 . 6 7	3 1 . 3 8
			2 0 . 9 0	- 0 . 9 3 6	- 0 . 9 3 5	3 4 . 0 9 0	2 7 . 4 1	3 2 . 1 6
			3 0 . 1 0	- 1 . 0 8 5	- 1 . 0 8 4	3 4 . 2 1 8	2 7 . 5 2	3 2 . 2 7
			4 1 . 1 0	- 1 . 0 5 7	- 1 . 0 5 6	3 4 . 3 9 3	2 7 . 6 6	3 2 . 4 1
			5 0 . 2 0	- 1 . 0 6 9	- 1 . 0 6 8	3 4 . 4 0 5	2 7 . 6 7	3 2 . 4 2
			6 1 . 1 0	- 1 . 2 4 3	- 1 . 2 4 1	3 4 . 4 5 1	2 7 . 7 2	3 2 . 4 7
			7 0 . 1 0	- 1 . 4 0 6	- 1 . 4 0 4	3 4 . 4 8 1	2 7 . 7 5	3 2 . 5 1
			8 0 . 8 0	- 1 . 3 2 7	- 1 . 3 2 5	3 4 . 4 9 8	2 7 . 7 6	3 2 . 5 1
			9 1 . 4 0	- 0 . 9 6 5	- 0 . 9 6 2	3 4 . 5 3 6	2 7 . 7 8	3 2 . 5 2
			1 0 0 . 2 0	- 0 . 6 9 5	- 0 . 6 9 2	3 4 . 5 6 0	2 7 . 7 8	3 2 . 5 2
			1 1 0 . 7 0	- 1 . 1 8 7	- 1 . 1 8 4	3 4 . 5 6 2	2 7 . 8 1	3 2 . 5 6
			1 2 1 . 4 0	- 1 . 2 0 6	- 1 . 2 0 3	3 4 . 5 8 2	2 7 . 8 2	3 2 . 5 7
			1 3 0 . 1 0	- 1 . 2 4 5	- 1 . 2 4 2	3 4 . 5 7 8	2 7 . 8 2	3 2 . 5 7
			1 4 0 . 5 0	- 1 . 1 6 8	- 1 . 1 6 4	3 4 . 5 8 9	2 7 . 8 3	3 2 . 5 8
			1 5 0 . 9 0	- 1 . 2 7 9	- 1 . 2 7 5	3 4 . 6 1 6	2 7 . 8 5	3 2 . 6 1

M E	D Z	0 1 8	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
			1 . 2 0	0 . 7 7 8	0 . 7 7 8	3 3 . 0 7 0	2 6 . 5 1	3 1 . 2 1
			1 1 . 2 0	0 . 7 8 2	0 . 7 8 2	3 3 . 0 9 1	2 6 . 5 2	3 1 . 2 3
			2 1 . 3 0	- 0 . 6 7 5	- 0 . 6 7 4	3 3 . 7 8 0	2 7 . 1 5	3 1 . 8 9
			3 1 . 4 0	- 1 . 1 3 5	- 1 . 1 3 4	3 4 . 0 2 9	2 7 . 3 7	3 2 . 1 2
			4 1 . 4 0	- 1 . 1 8 1	- 1 . 1 8 0	3 4 . 1 8 1	2 7 . 5 0	3 2 . 2 5
			5 1 . 6 0	- 1 . 1 3 9	- 1 . 1 3 8	3 4 . 3 5 0	2 7 . 6 3	3 2 . 3 8
			6 0 . 2 0	- 1 . 1 4 7	- 1 . 1 4 5	3 4 . 4 2 0	2 7 . 6 9	3 2 . 4 4
			7 0 . 7 0	- 1 . 1 9 7	- 1 . 1 9 5	3 4 . 4 4 7	2 7 . 7 1	3 2 . 4 6
			8 0 . 7 0	- 1 . 1 2 0	- 1 . 1 1 8	3 4 . 4 7 3	2 7 . 7 3	3 2 . 4 8
			9 0 . 9 0	- 1 . 0 4 4	- 1 . 0 4 2	3 4 . 5 0 8	2 7 . 7 6	3 2 . 5 0
			1 0 0 . 8 0	- 0 . 9 7 7	- 0 . 9 7 4	3 4 . 5 0 6	2 7 . 7 5	3 2 . 5 0

M E	D Z	0 1 9	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
			0 . 6 0	0 . 0 8 3	0 . 0 8 3	3 3 . 2 6 2	2 6 . 7 0	3 1 . 4 2
			1 0 . 9 0	- 0 . 3 0 4	- 0 . 3 0 4	3 3 . 5 2 7	2 6 . 9 3	3 1 . 6 6
			2 1 . 5 0	- 0 . 4 8 8	- 0 . 4 8 7	3 3 . 7 0 8	2 7 . 0 9	3 1 . 8 2
			3 0 . 7 0	- 0 . 5 9 9	- 0 . 5 9 8	3 3 . 7 9 5	2 7 . 1 6	3 1 . 9 0
			4 1 . 4 0	- 0 . 6 6 9	- 0 . 6 6 8	3 3 . 9 2 4	2 7 . 2 7	3 2 . 0 1
			5 0 . 2 0	- 0 . 6 8 1	- 0 . 6 8 0	3 3 . 9 8 8	2 7 . 3 2	3 2 . 0 6
			6 0 . 6 0	- 0 . 7 3 6	- 0 . 7 3 4	3 4 . 0 3 8	2 7 . 3 6	3 2 . 1 0
			7 0 . 9 0	- 0 . 8 1 8	- 0 . 8 1 6	3 4 . 1 8 5	2 7 . 4 9	3 2 . 2 3
			8 1 . 2 0	- 0 . 7 9 0	- 0 . 7 8 8	3 4 . 2 8 0	2 7 . 5 6	3 2 . 3 0
			9 1 . 0 0	- 0 . 8 1 9	- 0 . 8 1 6	3 4 . 3 2 3	2 7 . 6 0	3 2 . 3 4
			1 0 0 . 8 0	- 0 . 8 2 6	- 0 . 8 2 3	3 4 . 3 5 6	2 7 . 6 2	3 2 . 3 7
			1 1 0 . 6 0	- 0 . 8 4 8	- 0 . 8 4 5	3 4 . 4 5 0	2 7 . 7 0	3 2 . 4 4
			1 2 0 . 5 0	- 0 . 7 7 9	- 0 . 7 7 5	3 4 . 4 8 5	2 7 . 7 3	3 2 . 4 7
			1 3 0 . 2 0	- 0 . 7 7 4	- 0 . 7 7 0	3 4 . 5 0 9	2 7 . 7 5	3 2 . 4 9
			1 4 1 . 2 0	- 0 . 9 0 4	- 0 . 9 0 0	3 4 . 5 2 7	2 7 . 7 7	3 2 . 5 1
			1 5 0 . 9 0	- 0 . 9 1 6	- 0 . 9 1 2	3 4 . 5 4 5	2 7 . 7 8	3 2 . 5 2
			1 6 0 . 7 0	- 0 . 6 9 5	- 0 . 6 9 0	3 4 . 5 7 9	2 7 . 8 0	3 2 . 5 4
			1 7 0 . 5 0	- 0 . 7 6 5	- 0 . 7 6 0	3 4 . 5 8 9	2 7 . 8 1	3 2 . 5 5
			1 8 0 . 0 0	- 0 . 8 9 3	- 0 . 8 8 8	3 4 . 6 0 4	2 7 . 8 3	3 2 . 5 7
			1 9 1 . 1 0	- 1 . 0 5 4	- 1 . 0 4 9	3 4 . 6 0 6	2 7 . 8 4	3 2 . 5 8
			2 0 0 . 5 0	- 1 . 1 3 9	- 1 . 1 3 4	3 4 . 6 3 2	2 7 . 8 6	3 2 . 6 1
			2 1 1 . 1 0	- 1 . 1 8 7	- 1 . 1 8 1	3 4 . 6 5 5	2 7 . 8 8	3 2 . 6 3
			2 2 1 . 2 0	- 1 . 1 9 7	- 1 . 1 9 1	3 4 . 6 6 0	2 7 . 8 9	3 2 . 6 4
			2 3 0 . 3 0	- 1 . 1 7 1	- 1 . 1 6 5	3 4 . 6 6 9	2 7 . 8 9	3 2 . 6 4

M E	D Z	0 2 0	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
			1 . 4 0	1 . 2 6 3	1 . 2 6 3	3 2 . 9 7 0	2 6 . 4 0	3 1 . 0 9
			1 0 . 2 0	1 . 3 3 0	1 . 3 3 0	3 3 . 4 6 7	2 6 . 7 9	3 1 . 4 8
			2 1 . 0 0	- 0 . 0 0 5	- 0 . 0 0 4	3 3 . 7 6 9	2 7 . 1 1	3 1 . 8 4
			3 0 . 0 0	- 0 . 9 7 1	- 0 . 9 7 0	3 4 . 2 5 2	2 7 . 5 5	3 2 . 2 9
			4 0 . 3 0	- 1 . 4 9 7	- 1 . 4 9 6	3 4 . 4 3 7	2 7 . 7 1	3 2 . 4 8
			5 1 . 6 0	- 1 . 6 2 1	- 1 . 6 2 0	3 4 . 4 6 6	2 7 . 7 4	3 2 . 5 1

6 0 . 4 0	- 1 . 6 4 4	- 1 . 6 4 3	3 4 . 5 0 1	2 7 . 7 7	3 2 . 5 4
7 1 . 1 0	- 1 . 6 3 8	- 1 . 6 3 6	3 4 . 5 2 9	2 7 . 7 9	3 2 . 5 6
8 0 . 1 0	- 1 . 6 1 8	- 1 . 6 1 6	3 4 . 5 4 7	2 7 . 8 1	3 2 . 5 7
9 0 . 6 0	- 1 . 5 8 6	- 1 . 5 8 4	3 4 . 5 6 4	2 7 . 8 2	3 2 . 5 8
1 0 1 . 1 0	- 1 . 5 5 3	- 1 . 5 5 1	3 4 . 5 7 1	2 7 . 8 3	3 2 . 5 9
1 1 1 . 7 0	- 1 . 5 3 3	- 1 . 5 3 0	3 4 . 5 8 4	2 7 . 8 4	3 2 . 6 0
1 2 0 . 4 0	- 1 . 5 2 8	- 1 . 5 2 5	3 4 . 5 8 2	2 7 . 8 3	3 2 . 5 9
1 3 0 . 8 0	- 1 . 5 2 4	- 1 . 5 2 1	3 4 . 5 9 6	2 7 . 8 4	3 2 . 6 0
1 4 1 . 0 0	- 1 . 5 1 4	- 1 . 5 1 1	3 4 . 6 0 8	2 7 . 8 5	3 2 . 6 1
1 5 1 . 3 0	- 1 . 4 8 7	- 1 . 4 8 3	3 4 . 6 2 9	2 7 . 8 7	3 2 . 6 3
1 6 1 . 5 0	- 1 . 4 7 3	- 1 . 4 6 9	3 4 . 6 2 9	2 7 . 8 7	3 2 . 6 3
1 7 0 . 1 0	- 1 . 4 5 8	- 1 . 4 5 4	3 4 . 6 4 0	2 7 . 8 8	3 2 . 6 4
1 8 0 . 1 0	- 1 . 4 1 7	- 1 . 4 1 3	3 4 . 6 5 2	2 7 . 8 9	3 2 . 6 4

M E	D Z	0 2 1	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 5 0	1 . 0 9 9	1 . 0 9 9	3 3 . 1 4 5	2 6 . 5 5	3 1 . 2 4			
1 0 . 6 0	1 . 7 2 1	1 . 7 2 2	3 3 . 4 1 5	2 6 . 7 2	3 1 . 4 0			
2 0 . 5 0	0 . 8 6 4	0 . 8 6 5	3 3 . 6 1 3	2 6 . 9 4	3 1 . 6 4			
3 0 . 2 0	0 . 5 8 4	0 . 5 8 5	3 3 . 6 6 9	2 7 . 0 0	3 1 . 7 1			
4 1 . 4 0	- 0 . 8 3 1	- 0 . 8 3 0	3 4 . 2 2 7	2 7 . 5 2	3 2 . 2 6			
5 0 . 5 0	- 1 . 2 5 1	- 1 . 2 5 0	3 4 . 3 4 8	2 7 . 6 3	3 2 . 3 9			
6 1 . 1 0	- 1 . 5 0 5	- 1 . 5 0 4	3 4 . 4 2 2	2 7 . 7 0	3 2 . 4 6			
7 1 . 1 0	- 1 . 6 4 6	- 1 . 6 4 4	3 4 . 4 7 8	2 7 . 7 5	3 2 . 5 2			
8 1 . 3 0	- 1 . 6 7 4	- 1 . 6 7 2	3 4 . 5 0 7	2 7 . 7 8	3 2 . 5 4			
9 1 . 0 0	- 1 . 6 7 1	- 1 . 6 6 9	3 4 . 5 1 9	2 7 . 7 9	3 2 . 5 5			
1 0 0 . 9 0	- 1 . 6 4 4	- 1 . 6 4 2	3 4 . 5 4 8	2 7 . 8 1	3 2 . 5 7			
1 1 0 . 6 0	- 1 . 5 9 8	- 1 . 5 9 6	3 4 . 5 6 4	2 7 . 8 2	3 2 . 5 8			
1 2 0 . 2 0	- 1 . 5 8 1	- 1 . 5 7 8	3 4 . 5 7 2	2 7 . 8 3	3 2 . 5 9			
1 3 1 . 2 0	- 1 . 5 6 8	- 1 . 5 6 5	3 4 . 5 8 4	2 7 . 8 4	3 2 . 6 0			
1 4 0 . 7 0	- 1 . 5 5 6	- 1 . 5 5 3	3 4 . 5 8 9	2 7 . 8 4	3 2 . 6 0			
1 5 0 . 0 0	- 1 . 5 2 9	- 1 . 5 2 6	3 4 . 5 9 4	2 7 . 8 4	3 2 . 6 0			
1 6 0 . 5 0	- 1 . 5 0 5	- 1 . 5 0 1	3 4 . 6 1 0	2 7 . 8 6	3 2 . 6 1			
1 7 0 . 9 0	- 1 . 4 9 2	- 1 . 4 8 8	3 4 . 6 1 4	2 7 . 8 6	3 2 . 6 2			
1 8 1 . 1 0	- 1 . 4 6 3	- 1 . 4 5 9	3 4 . 6 2 2	2 7 . 8 6	3 2 . 6 2			
1 9 1 . 1 0	- 1 . 4 5 4	- 1 . 4 4 9	3 4 . 6 3 8	2 7 . 8 8	3 2 . 6 3			
2 0 1 . 1 0	- 1 . 4 1 4	- 1 . 4 0 9	3 4 . 6 5 8	2 7 . 8 9	3 2 . 6 5			
2 1 1 . 0 0	- 1 . 2 7 7	- 1 . 2 7 1	3 4 . 6 8 4	2 7 . 9 1	3 2 . 6 6			
2 2 0 . 6 0	- 1 . 1 1 0	- 1 . 1 0 4	3 4 . 7 0 7	2 7 . 9 2	3 2 . 6 7			
2 3 1 . 0 0	- 1 . 0 7 2	- 1 . 0 6 5	3 4 . 7 1 3	2 7 . 9 2	3 2 . 6 7			

M E	D Z	0 2 2	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 4 0	1 . 7 7 9	1 . 7 7 9	3 3 . 2 2 1	2 6 . 5 6	3 1 . 2 4			
1 1 . 4 0	1 . 6 7 0	1 . 6 7 1	3 3 . 3 2 1	2 6 . 6 5	3 1 . 3 3			
2 1 . 5 0	- 0 . 2 4 1	- 0 . 2 4 0	3 3 . 8 7 5	2 7 . 2 1	3 1 . 9 4			
3 1 . 3 0	- 0 . 6 7 8	- 0 . 6 7 7	3 4 . 2 9 6	2 7 . 5 7	3 2 . 3 1			
4 0 . 7 0	- 1 . 4 5 1	- 1 . 4 5 0	3 4 . 4 0 1	2 7 . 6 8	3 2 . 4 4			
5 1 . 4 0	- 1 . 5 9 7	- 1 . 5 9 6	3 4 . 4 3 1	2 7 . 7 1	3 2 . 4 8			
6 0 . 6 0	- 1 . 6 1 6	- 1 . 6 1 5	3 4 . 4 4 3	2 7 . 7 2	3 2 . 4 9			
7 1 . 0 0	- 1 . 6 4 8	- 1 . 6 4 6	3 4 . 4 5 8	2 7 . 7 4	3 2 . 5 0			
8 0 . 4 0	- 1 . 5 4 3	- 1 . 5 4 1	3 4 . 4 9 5	2 7 . 7 6	3 2 . 5 2			
9 0 . 5 0	- 1 . 5 5 5	- 1 . 5 5 3	3 4 . 5 1 0	2 7 . 7 8	3 2 . 5 4			
1 0 0 . 3 0	- 1 . 5 1 3	- 1 . 5 1 1	3 4 . 5 4 5	2 7 . 8 0	3 2 . 5 6			
1 1 0 . 0 0	- 1 . 4 8 9	- 1 . 4 8 6	3 4 . 5 6 7	2 7 . 8 2	3 2 . 5 8			
1 2 0 . 2 0	- 1 . 5 1 8	- 1 . 5 1 5	3 4 . 5 7 2	2 7 . 8 2	3 2 . 5 9			
1 3 0 . 0 0	- 1 . 5 3 2	- 1 . 5 2 9	3 4 . 5 7 3	2 7 . 8 3	3 2 . 5 9			
1 4 0 . 9 0	- 1 . 4 4 4	- 1 . 4 4 1	3 4 . 6 0 2	2 7 . 8 5	3 2 . 6 0			
1 5 0 . 3 0	- 1 . 4 5 4	- 1 . 4 5 0	3 4 . 6 1 3	2 7 . 8 6	3 2 . 6 1			
1 6 1 . 0 0	- 1 . 4 8 7	- 1 . 4 8 3	3 4 . 6 4 7	2 7 . 8 8	3 2 . 6 4			
1 7 1 . 1 0	- 1 . 4 8 6	- 1 . 4 8 2	3 4 . 6 5 3	2 7 . 8 9	3 2 . 6 5			
1 8 1 . 1 0	- 1 . 4 7 5	- 1 . 4 7 1	3 4 . 6 6 4	2 7 . 9 0	3 2 . 6 6			
1 9 1 . 4 0	- 1 . 4 0 0	- 1 . 3 9 5	3 4 . 6 7 2	2 7 . 9 0	3 2 . 6 6			
2 0 0 . 4 0	- 1 . 3 1 9	- 1 . 3 1 4	3 4 . 6 8 2	2 7 . 9 1	3 2 . 6 6			
2 1 0 . 0 0	- 1 . 1 4 3	- 1 . 1 3 7	3 4 . 7 0 5	2 7 . 9 2	3 2 . 6 7			
2 2 0 . 1 0	- 1 . 0 9 7	- 1 . 0 9 1	3 4 . 7 1 2	2 7 . 9 2	3 2 . 6 7			

S D	D Z	0 2 3	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 3 5	1 . 8 2 0	1 . 8 2 0	3 3 . 5 4 0	2 6 . 8 2	3 1 . 4 9			
1 0 . 4 5	1 . 6 4 0	1 . 6 4 0	3 3 . 7 2 0	2 6 . 9 7	3 1 . 6 5			
2 0 . 1 7	1 . 4 5 0	1 . 4 5 1	3 3 . 6 4 0	2 6 . 9 2	3 1 . 6 1			
3 0 . 5 7	- 0 . 4 7 0	- 0 . 4 6 9	3 4 . 3 0 0	2 7 . 5 6	3 2 . 3 0			
4 0 . 6 4	- 1 . 4 9 0	- 1 . 4 8 9	3 4 . 5 7 0	2 7 . 8 2	3 2 . 5 8			
5 0 . 8 5	- 1 . 6 3 0	- 1 . 6 2 9	3 4 . 6 1 0	2 7 . 8 6	3 2 . 6 2			
6 0 . 1 3	- 1 . 6 0 0	- 1 . 5 9 9	3 4 . 6 5 0	2 7 . 8 9	3 2 . 6 5			
7 0 . 1 5	- 1 . 6 0 0	- 1 . 5 9 8	3 4 . 7 0 0	2 7 . 9 3	3 2 . 6 9			

8 0 . 5 3	- 1 . 5 5 0	- 1 . 5 4 8	3 4 . 7 2 0	2 7 . 9 5	3 2 . 7 1
9 0 . 2 1	- 1 . 5 1 0	- 1 . 5 0 8	3 4 . 7 3 0	2 7 . 9 5	3 2 . 7 1
1 0 0 . 4 5	- 1 . 4 5 0	- 1 . 4 4 8	3 4 . 7 7 0	2 7 . 9 8	3 2 . 7 4
1 1 0 . 4 8	- 1 . 4 7 0	- 1 . 4 6 7	3 4 . 7 5 0	2 7 . 9 7	3 2 . 7 3
1 2 0 . 8 2	- 1 . 3 9 0	- 1 . 3 8 7	3 4 . 7 9 0	2 8 . 0 0	3 2 . 7 5
1 3 0 . 1 4	- 1 . 3 2 0	- 1 . 3 1 7	3 4 . 8 2 0	2 8 . 0 2	3 2 . 7 7
1 4 0 . 4 6	- 1 . 3 0 0	- 1 . 2 9 6	3 4 . 8 2 0	2 8 . 0 2	3 2 . 7 7
1 5 0 . 7 4	- 1 . 3 2 0	- 1 . 3 1 6	3 4 . 8 4 0	2 8 . 0 4	3 2 . 7 9
1 6 0 . 2 1	- 1 . 3 3 0	- 1 . 3 2 6	3 4 . 8 3 0	2 8 . 0 3	3 2 . 7 8
1 7 0 . 1 2	- 1 . 3 4 0	- 1 . 3 3 6	3 4 . 8 5 0	2 8 . 0 4	3 2 . 8 0
1 8 0 . 5 1	- 1 . 3 4 0	- 1 . 3 3 5	3 4 . 8 5 0	2 8 . 0 4	3 2 . 8 0
1 9 0 . 1 4	- 1 . 3 5 0	- 1 . 3 4 5	3 4 . 8 4 0	2 8 . 0 4	3 2 . 7 9
2 0 0 . 7 7	- 1 . 3 6 0	- 1 . 3 5 5	3 4 . 8 5 0	2 8 . 0 5	3 2 . 8 0
2 1 0 . 4 0	- 1 . 3 2 0	- 1 . 3 1 4	3 4 . 8 6 0	2 8 . 0 5	3 2 . 8 0
2 2 0 . 2 7	- 1 . 2 9 0	- 1 . 2 8 4	3 4 . 8 9 0	2 8 . 0 8	3 2 . 8 3
2 3 0 . 3 5	- 1 . 2 1 0	- 1 . 2 0 4	3 4 . 8 9 0	2 8 . 0 7	3 2 . 8 2
2 4 0 . 1 8	- 1 . 1 1 0	- 1 . 1 0 3	3 4 . 8 8 0	2 8 . 0 6	3 2 . 8 1
2 5 0 . 3 0	- 1 . 0 8 0	- 1 . 0 7 3	3 4 . 8 9 0	2 8 . 0 7	3 2 . 8 1
2 6 0 . 3 3	- 1 . 0 2 0	- 1 . 0 1 2	3 4 . 8 9 0	2 8 . 0 7	3 2 . 8 1
2 7 0 . 1 0	- 0 . 9 2 0	- 0 . 9 1 2	3 4 . 9 0 0	2 8 . 0 7	3 2 . 8 1
2 8 0 . 1 0	- 0 . 8 5 0	- 0 . 8 4 1	3 4 . 9 0 0	2 8 . 0 7	3 2 . 8 0
2 9 0 . 1 1	- 0 . 8 3 0	- 0 . 8 2 1	3 4 . 9 1 0	2 8 . 0 7	3 2 . 8 1
3 0 0 . 0 0	- 0 . 8 0 0	- 0 . 7 9 0	3 4 . 9 2 0	2 8 . 0 8	3 2 . 8 2
3 1 0 . 5 7	- 0 . 7 8 0	- 0 . 7 7 0	3 4 . 9 4 0	2 8 . 1 0	3 2 . 8 3
3 2 0 . 6 2	- 0 . 7 6 0	- 0 . 7 5 0	3 4 . 9 3 0	2 8 . 0 9	3 2 . 8 2
3 3 0 . 5 1	- 0 . 7 6 0	- 0 . 7 4 9	3 4 . 9 3 0	2 8 . 0 9	3 2 . 8 2
3 4 0 . 4 7	- 0 . 7 6 0	- 0 . 7 4 9	3 4 . 9 3 0	2 8 . 0 9	3 2 . 8 2
3 5 0 . 5 0	- 0 . 7 7 0	- 0 . 7 5 9	3 4 . 9 3 0	2 8 . 0 9	3 2 . 8 2
3 6 0 . 3 8	- 0 . 7 7 0	- 0 . 7 5 8	3 4 . 9 2 0	2 8 . 0 8	3 2 . 8 1
3 7 0 . 6 8	- 0 . 7 7 0	- 0 . 7 5 8	3 4 . 9 2 0	2 8 . 0 8	3 2 . 8 1
3 8 0 . 0 2	- 0 . 7 7 0	- 0 . 7 5 8	3 4 . 9 2 0	2 8 . 0 8	3 2 . 8 1
3 9 0 . 5 9	- 0 . 7 7 0	- 0 . 7 5 7	3 4 . 9 1 0	2 8 . 0 7	3 2 . 8 1
4 0 0 . 7 2	- 0 . 8 0 0	- 0 . 7 8 7	3 4 . 9 1 0	2 8 . 0 7	3 2 . 8 1

M E D Z 0 2 4

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 9 0	- 0 . 2 1 8	- 0 . 2 1 8	3 3 . 4 3 5	2 6 . 8 5	3 1 . 5 8
1 0 . 0 0	- 0 . 2 6 9	- 0 . 2 6 9	3 3 . 3 1 3	2 6 . 7 6	3 1 . 4 9
2 0 . 3 0	- 0 . 3 8 9	- 0 . 3 8 8	3 3 . 3 8 3	2 6 . 8 2	3 1 . 5 6
3 0 . 1 0	- 0 . 6 0 1	- 0 . 6 0 0	3 3 . 5 0 5	2 6 . 9 3	3 1 . 6 7
4 1 . 2 0	- 1 . 0 5 4	- 1 . 0 5 3	3 3 . 7 7 8	2 7 . 1 6	3 1 . 9 2
5 1 . 2 0	- 1 . 2 0 3	- 1 . 2 0 2	3 3 . 8 7 6	2 7 . 2 5	3 2 . 0 1
6 1 . 6 0	- 1 . 4 9 4	- 1 . 4 9 3	3 4 . 1 3 7	2 7 . 4 7	3 2 . 2 3
7 1 . 6 0	- 1 . 5 5 3	- 1 . 5 5 1	3 4 . 2 0 5	2 7 . 5 3	3 2 . 2 9
8 0 . 0 0	- 1 . 6 1 1	- 1 . 6 0 9	3 4 . 2 8 1	2 7 . 5 9	3 2 . 3 6
9 0 . 1 0	- 1 . 6 4 2	- 1 . 6 4 0	3 4 . 3 3 3	2 7 . 6 3	3 2 . 4 0
1 0 0 . 3 0	- 1 . 6 4 8	- 1 . 6 4 6	3 4 . 3 4 5	2 7 . 6 4	3 2 . 4 1
1 1 0 . 4 0	- 1 . 6 6 6	- 1 . 6 6 4	3 4 . 3 9 4	2 7 . 6 8	3 2 . 4 5
1 2 0 . 3 0	- 1 . 7 0 2	- 1 . 6 9 9	3 4 . 4 3 7	2 7 . 7 2	3 2 . 4 9
1 3 1 . 5 0	- 1 . 6 9 8	- 1 . 6 9 5	3 4 . 5 2 8	2 7 . 7 9	3 2 . 5 6
1 4 1 . 1 0	- 1 . 6 9 1	- 1 . 6 8 8	3 4 . 5 3 4	2 7 . 8 0	3 2 . 5 7
1 5 0 . 6 0	- 1 . 6 8 6	- 1 . 6 8 3	3 4 . 5 4 5	2 7 . 8 1	3 2 . 5 7
1 6 0 . 2 0	- 1 . 6 8 3	- 1 . 6 7 9	3 4 . 5 6 5	2 7 . 8 2	3 2 . 5 9
1 7 1 . 0 0	- 1 . 6 6 0	- 1 . 6 5 6	3 4 . 5 8 6	2 7 . 8 4	3 2 . 6 1
1 8 0 . 1 0	- 1 . 6 3 7	- 1 . 6 3 3	3 4 . 5 9 7	2 7 . 8 5	3 2 . 6 1
1 9 0 . 7 0	- 1 . 6 2 4	- 1 . 6 2 0	3 4 . 6 0 3	2 7 . 8 5	3 2 . 6 2
2 0 1 . 4 0	- 1 . 5 9 9	- 1 . 5 9 4	3 4 . 6 1 1	2 7 . 8 6	3 2 . 6 2
2 1 0 . 5 0	- 1 . 5 2 8	- 1 . 5 2 3	3 4 . 6 3 1	2 7 . 8 7	3 2 . 6 3
2 2 0 . 9 0	- 1 . 4 8 2	- 1 . 4 7 7	3 4 . 6 3 8	2 7 . 8 8	3 2 . 6 4
2 3 1 . 3 0	- 1 . 4 4 8	- 1 . 4 4 2	3 4 . 6 5 1	2 7 . 8 9	3 2 . 6 4
2 4 0 . 1 0	- 1 . 3 7 8	- 1 . 3 7 2	3 4 . 6 6 0	2 7 . 8 9	3 2 . 6 5
2 5 0 . 3 0	- 1 . 2 8 9	- 1 . 2 8 2	3 4 . 6 8 1	2 7 . 9 1	3 2 . 6 6
2 6 0 . 1 0	- 1 . 2 6 7	- 1 . 2 6 0	3 4 . 6 8 7	2 7 . 9 1	3 2 . 6 6

M E D Z 0 2 5

P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 5 0	- 0 . 3 6 6	- 0 . 3 6 6	3 3 . 3 7 0	2 6 . 8 1	3 1 . 5 4
1 1 . 2 0	- 0 . 4 6 3	- 0 . 4 6 3	3 3 . 3 2 4	2 6 . 7 7	3 1 . 5 1
2 0 . 1 0	- 0 . 7 6 1	- 0 . 7 6 0	3 3 . 5 8 9	2 7 . 0 0	3 1 . 7 5
3 0 . 8 0	- 0 . 8 1 6	- 0 . 8 1 5	3 3 . 6 1 2	2 7 . 0 2	3 1 . 7 7
4 1 . 6 0	- 0 . 9 2 7	- 0 . 9 2 6	3 3 . 6 8 6	2 7 . 0 9	3 1 . 8 4
5 0 . 4 0	- 1 . 1 1 1	- 1 . 1 1 0	3 3 . 8 5 5	2 7 . 2 3	3 1 . 9 8
6 0 . 8 0	- 1 . 1 7 0	- 1 . 1 6 9	3 3 . 9 4 5	2 7 . 3 0	3 2 . 0 6
7 1 . 4 0	- 1 . 3 2 7	- 1 . 3 2 5	3 4 . 1 2 4	2 7 . 4 5	3 2 . 2 1
8 0 . 4 0	- 1 . 4 6 2	- 1 . 4 6 0	3 4 . 2 6 9	2 7 . 5 8	3 2 . 3 4
9 0 . 9 0	- 1 . 5 3 2	- 1 . 5 3 0	3 4 . 3 4 8	2 7 . 6 4	3 2 . 4 1
1 0 1 . 4 0	- 1 . 5 4 9	- 1 . 5 4 7	3 4 . 3 8 6	2 7 . 6 7	3 2 . 4 4
1 1 0 . 0 0	- 1 . 5 5 0	- 1 . 5 4 8	3 4 . 4 0 2	2 7 . 6 9	3 2 . 4 5

1 2 0 . 2 0	- 1 . 5 5 2	- 1 . 5 4 9	3 4 . 4 1 0	2 7 . 6 9	3 2 . 4 6
1 3 0 . 1 0	- 1 . 5 4 2	- 1 . 5 3 9	3 4 . 5 4 1	2 7 . 8 0	3 2 . 5 6
1 4 1 . 3 0	- 1 . 5 3 6	- 1 . 5 3 3	3 4 . 5 6 2	2 7 . 8 2	3 2 . 5 8
1 5 1 . 0 0	- 1 . 5 3 0	- 1 . 5 2 6	3 4 . 5 7 5	2 7 . 8 3	3 2 . 5 9
1 6 0 . 7 0	- 1 . 5 2 7	- 1 . 5 2 3	3 4 . 5 9 0	2 7 . 8 4	3 2 . 6 0

M E	D Z	0 2 6	P R E S S	T E M P	T H E T A	S A L	S I G T	S I G 1
			1 . 9 0	- 0 . 0 7 6	- 0 . 0 7 6	3 3 . 0 0 3	2 6 . 5 0	3 1 . 2 3
			1 0 . 3 0	- 0 . 2 9 5	- 0 . 2 9 5	3 3 . 2 5 2	2 6 . 7 1	3 1 . 4 4
			2 1 . 1 0	- 0 . 6 7 5	- 0 . 6 7 4	3 3 . 6 0 2	2 7 . 0 1	3 1 . 7 5
			3 1 . 5 0	- 0 . 9 7 0	- 0 . 9 6 9	3 3 . 7 7 4	2 7 . 1 6	3 1 . 9 1
			4 1 . 4 0	- 0 . 9 9 1	- 0 . 9 9 0	3 3 . 8 2 0	2 7 . 2 0	3 1 . 9 5
			5 1 . 4 0	- 1 . 1 3 5	- 1 . 1 3 4	3 3 . 9 0 5	2 7 . 2 7	3 2 . 0 3
			6 1 . 3 0	- 1 . 2 4 7	- 1 . 2 4 6	3 3 . 9 8 4	2 7 . 3 4	3 2 . 1 0
			7 1 . 4 0	- 1 . 3 5 9	- 1 . 3 5 7	3 4 . 0 9 7	2 7 . 4 3	3 2 . 1 9
			8 1 . 5 0	- 1 . 4 3 8	- 1 . 4 3 6	3 4 . 2 0 3	2 7 . 5 2	3 2 . 2 8
			9 0 . 0 0	- 1 . 5 0 2	- 1 . 5 0 0	3 4 . 2 7 3	2 7 . 5 8	3 2 . 3 4
			1 0 0 . 2 0	- 1 . 5 7 1	- 1 . 5 6 9	3 4 . 3 8 5	2 7 . 6 7	3 2 . 4 4
			1 1 0 . 5 0	- 1 . 6 3 9	- 1 . 6 3 7	3 4 . 4 4 0	2 7 . 7 2	3 2 . 4 9
			1 2 0 . 7 0	- 1 . 6 3 9	- 1 . 6 3 6	3 4 . 4 6 6	2 7 . 7 4	3 2 . 5 1
			1 3 0 . 8 0	- 1 . 6 3 4	- 1 . 6 3 1	3 4 . 4 9 7	2 7 . 7 7	3 2 . 5 3
			1 4 0 . 9 0	- 1 . 6 2 7	- 1 . 6 2 4	3 4 . 5 0 2	2 7 . 7 7	3 2 . 5 4
			1 5 1 . 0 0	- 1 . 6 0 5	- 1 . 6 0 2	3 4 . 5 3 8	2 7 . 8 0	3 2 . 5 6
			1 6 1 . 1 0	- 1 . 5 8 3	- 1 . 5 7 9	3 4 . 5 6 7	2 7 . 8 2	3 2 . 5 9
			1 7 1 . 0 0	- 1 . 5 8 1	- 1 . 5 7 7	3 4 . 5 8 2	2 7 . 8 3	3 2 . 6 0
			1 8 0 . 9 0	- 1 . 5 7 1	- 1 . 5 6 7	3 4 . 5 9 5	2 7 . 8 5	3 2 . 6 1
			1 9 0 . 8 0	- 1 . 5 6 1	- 1 . 5 5 7	3 4 . 6 0 2	2 7 . 8 5	3 2 . 6 1
			2 0 0 . 8 0	- 1 . 5 4 0	- 1 . 5 3 5	3 4 . 6 1 8	2 7 . 8 6	3 2 . 6 2
			2 1 0 . 6 0	- 1 . 5 1 7	- 1 . 5 1 2	3 4 . 6 3 0	2 7 . 8 7	3 2 . 6 3
			2 2 0 . 2 0	- 1 . 4 9 3	- 1 . 4 8 8	3 4 . 6 4 2	2 7 . 8 8	3 2 . 6 4
			2 3 1 . 4 0	- 1 . 4 4 7	- 1 . 4 4 1	3 4 . 6 5 1	2 7 . 8 9	3 2 . 6 4
			2 4 0 . 9 0	- 1 . 4 3 5	- 1 . 4 2 9	3 4 . 6 5 1	2 7 . 8 9	3 2 . 6 4
			2 5 0 . 4 0	- 1 . 4 2 0	- 1 . 4 1 4	3 4 . 6 5 5	2 7 . 8 9	3 2 . 6 5
			2 6 1 . 1 0	- 1 . 4 1 1	- 1 . 4 0 4	3 4 . 6 5 7	2 7 . 8 9	3 2 . 6 5

S D	H A L L - 1	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 3 5	0 . 9 5 0	0 . 9 5 0	3 2 . 3 7 0	2 5 . 9 3	3 0 . 6 4

S D	H A L L - 2	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		1 . 1 7	0 . 3 0 0	0 . 3 0 0	3 2 . 8 5 0	2 6 . 3 6	3 1 . 0 8

S D	H A L L - 3	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 2 9	- 0 . 1 7 0	- 0 . 1 7 0	3 3 . 3 9 0	2 6 . 8 1	3 1 . 5 5
		1 0 . 1 7	- 0 . 2 0 0	- 0 . 2 0 0	3 3 . 3 5 0	2 6 . 7 8	3 1 . 5 2

S D	H A L L - 4	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 5 4	0 . 2 8 0	0 . 2 8 0	3 1 . 9 0 0	2 5 . 5 9	3 0 . 3 2
		1 0 . 7 3	- 0 . 1 9 0	- 0 . 1 9 0	3 3 . 4 1 0	2 6 . 8 3	3 1 . 5 6
		2 0 . 7 9	- 0 . 4 1 0	- 0 . 4 0 9	3 3 . 5 0 0	2 6 . 9 1	3 1 . 6 5

S D	H A L L - 5	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 4 0	0 . 1 9 0	0 . 1 9 0	2 5 . 2 3 0	2 0 . 2 2	2 5 . 0 1
		1 0 . 5 6	- 0 . 2 7 0	- 0 . 2 7 0	3 3 . 5 3 0	2 6 . 9 3	3 1 . 6 6
		2 0 . 9 9	- 0 . 6 9 0	- 0 . 6 8 9	3 3 . 6 8 0	2 7 . 0 7	3 1 . 8 1

S D	H A L L - 6	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 9 2	- 0 . 2 2 0	- 0 . 2 2 0	3 2 . 6 1 0	2 6 . 1 9	3 0 . 9 3
		1 0 . 5 7	- 0 . 3 7 0	- 0 . 3 7 0	3 3 . 5 6 0	2 6 . 9 6	3 1 . 7 0
		2 0 . 6 7	- 0 . 5 7 0	- 0 . 5 6 9	3 3 . 6 6 0	2 7 . 0 5	3 1 . 7 9
		3 0 . 0 2	- 1 . 0 0 0	- 0 . 9 9 9	3 3 . 9 3 0	2 7 . 2 9	3 2 . 0 4

S D	B R A D Y - 1	D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
		0 . 4 6	3 . 8 3 0	3 . 8 3 0	2 6 . 6 1 0	2 1 . 1 3	2 5 . 8 1

S D	B R A D Y - 2				
D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
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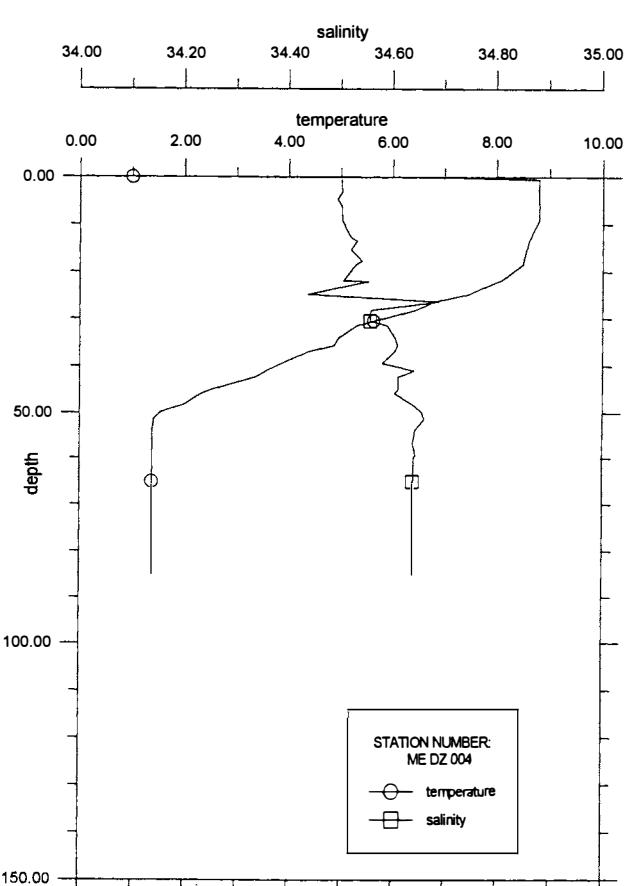
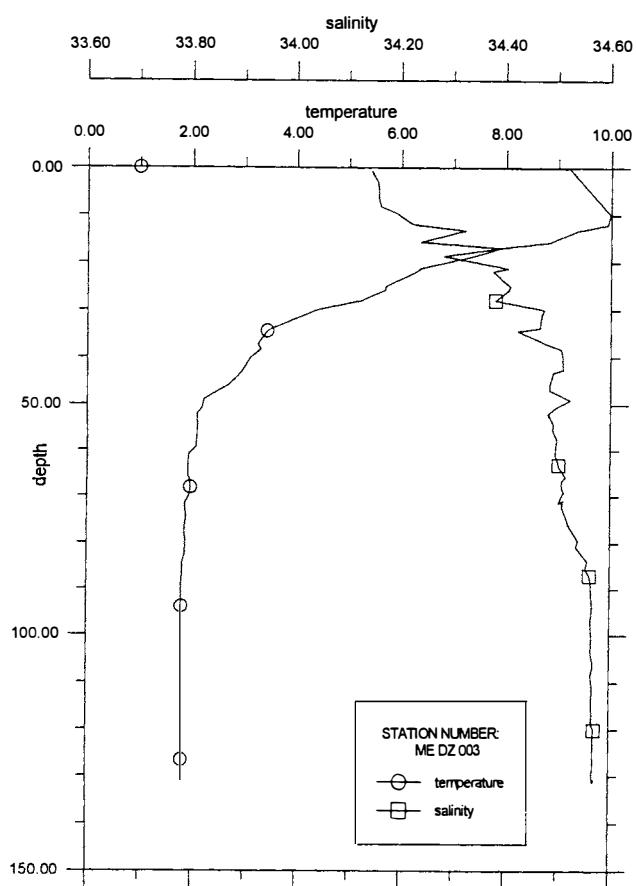
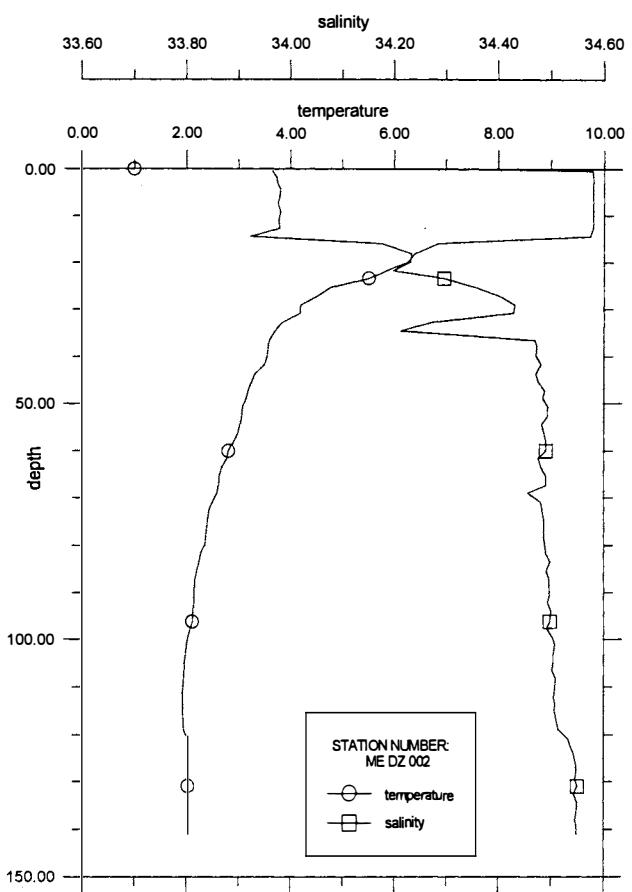
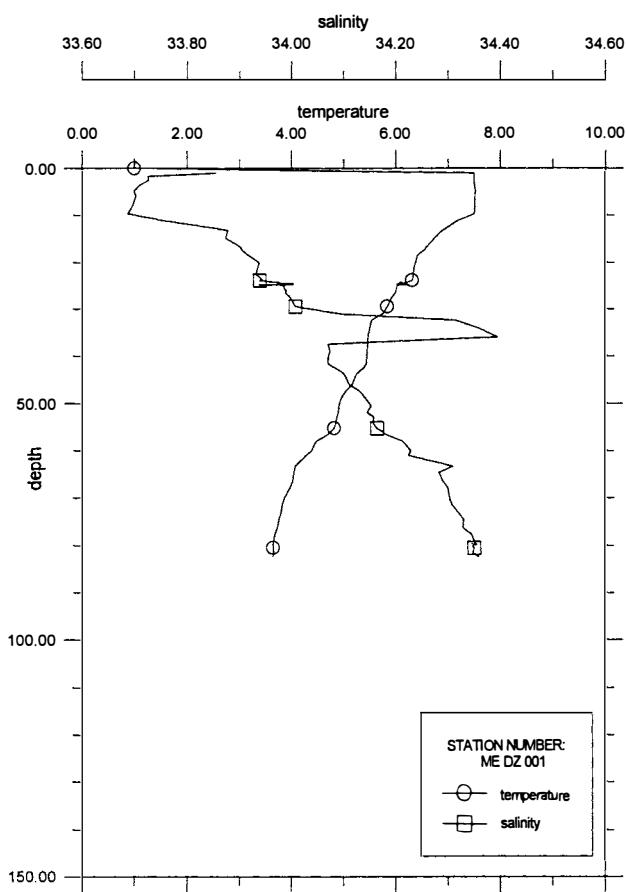
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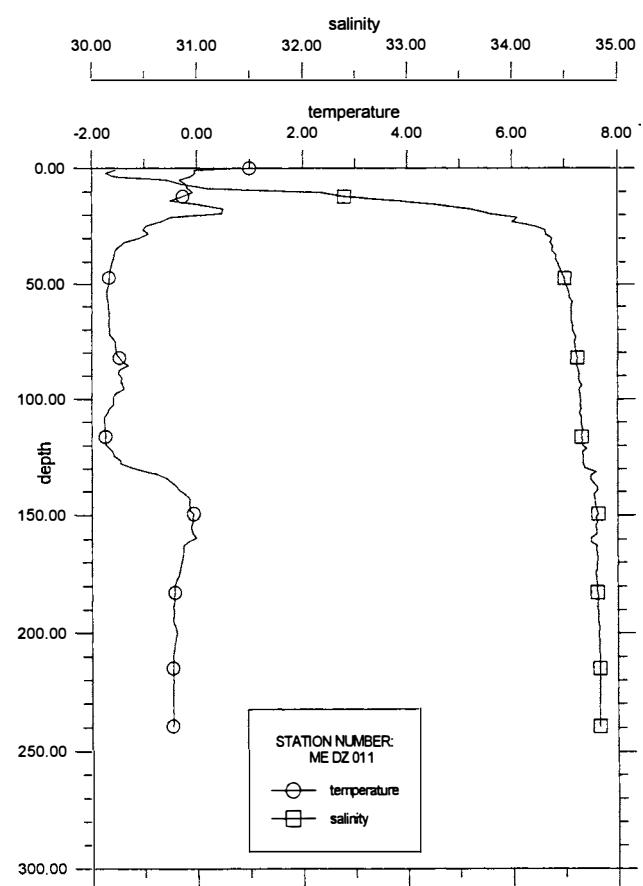
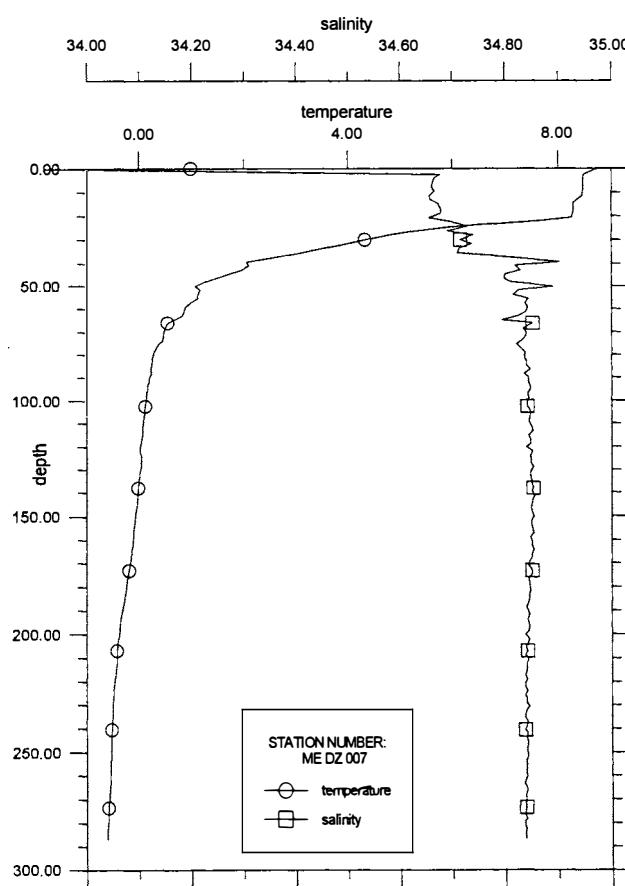
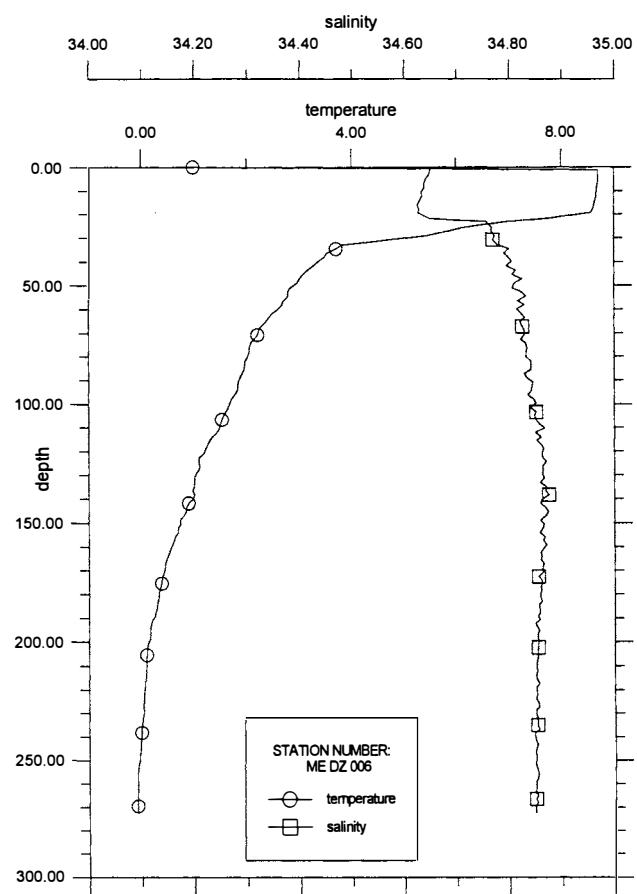
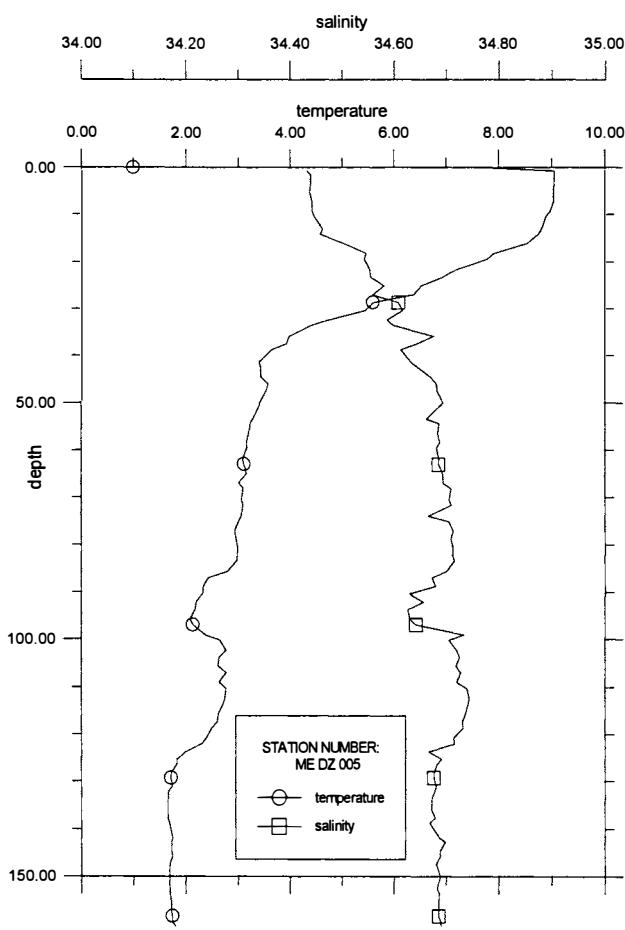
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D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 4 4	3 . 1 4 0	3 . 1 4 0	3 0 . 1 6 0	2 4 . 0 1	2 8 . 6 8
1 0 . 0 0	- 0 . 6 1 0	- 0 . 6 1 0	3 3 . 6 4 0	2 7 . 0 4	3 1 . 7 8
2 0 . 4 9	- 0 . 6 6 0	- 0 . 6 5 9	3 3 . 8 4 0	2 7 . 2 0	3 1 . 9 4
3 0 . 0 0	- 0 . 8 8 0	- 0 . 8 7 9	3 3 . 9 2 0	2 7 . 2 7	3 2 . 0 2
4 1 . 2 5	- 1 . 0 3 0	- 1 . 0 2 9	3 4 . 0 3 0	2 7 . 3 7	3 2 . 1 2
5 1 . 0 9	- 1 . 0 8 0	- 1 . 0 7 9	3 4 . 0 6 0	2 7 . 3 9	3 2 . 1 5
6 0 . 8 8	- 1 . 3 1 0	- 1 . 3 0 9	3 4 . 2 5 0	2 7 . 5 6	3 2 . 3 1
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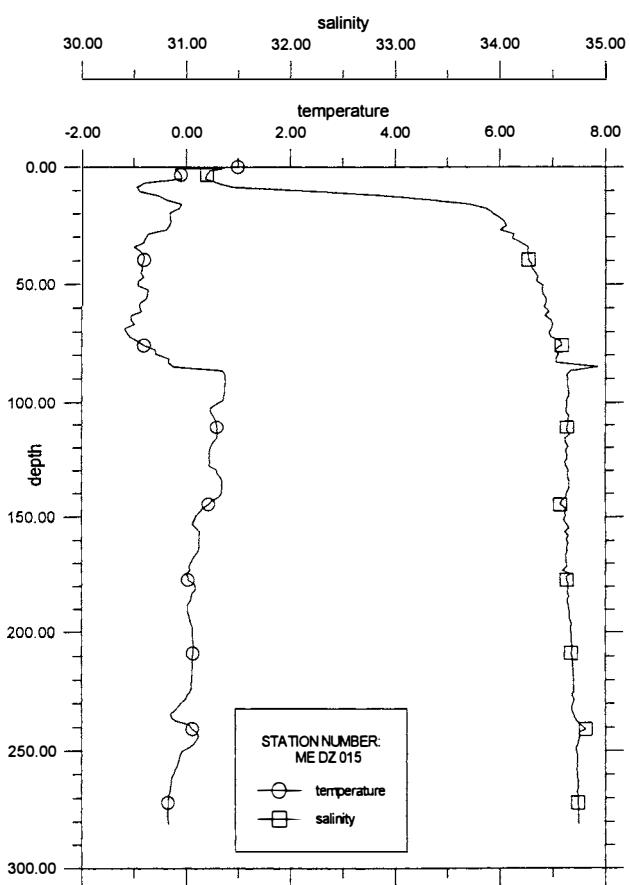
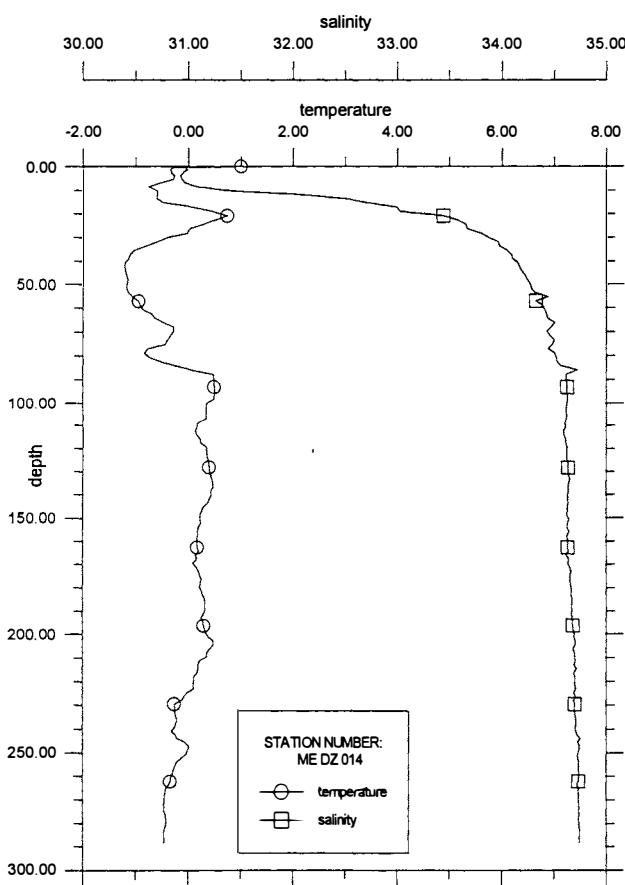
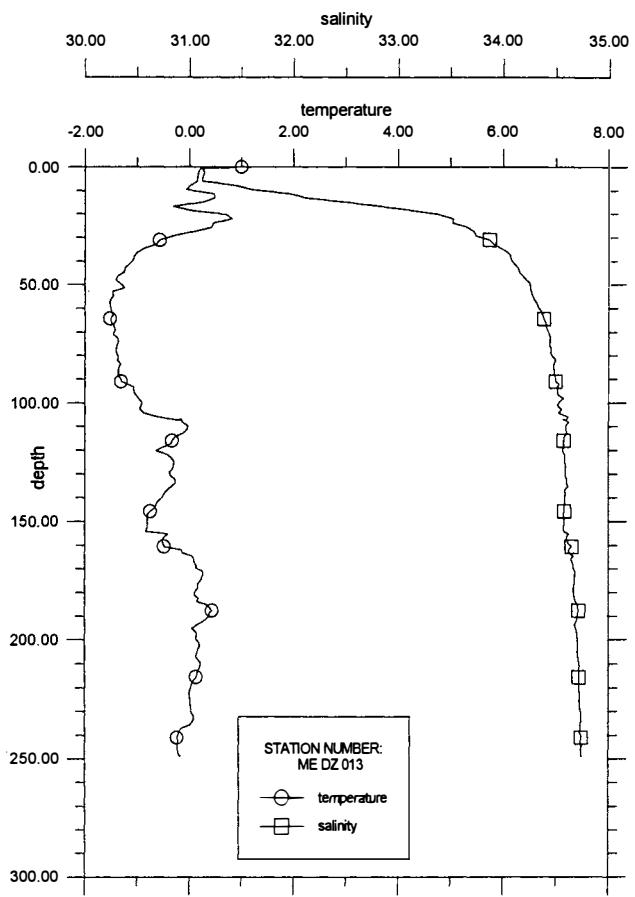
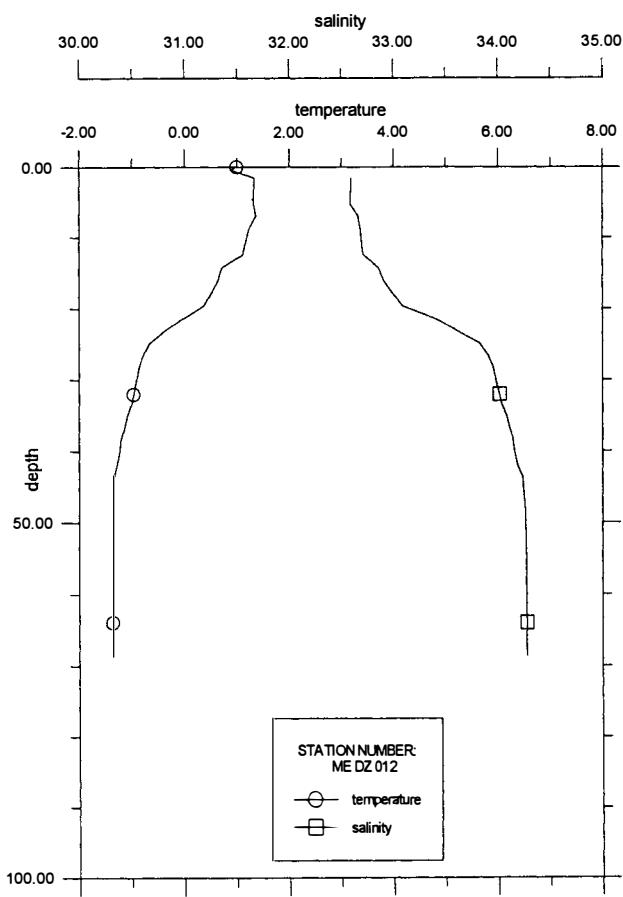
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D E P T H	T E M P	T H E T A	S A L	S I G T	S I G 1
0 . 7 2	2 . 0 1 0	2 . 0 1 0	3 0 . 4 1 0	2 4 . 3 0	2 8 . 9 9

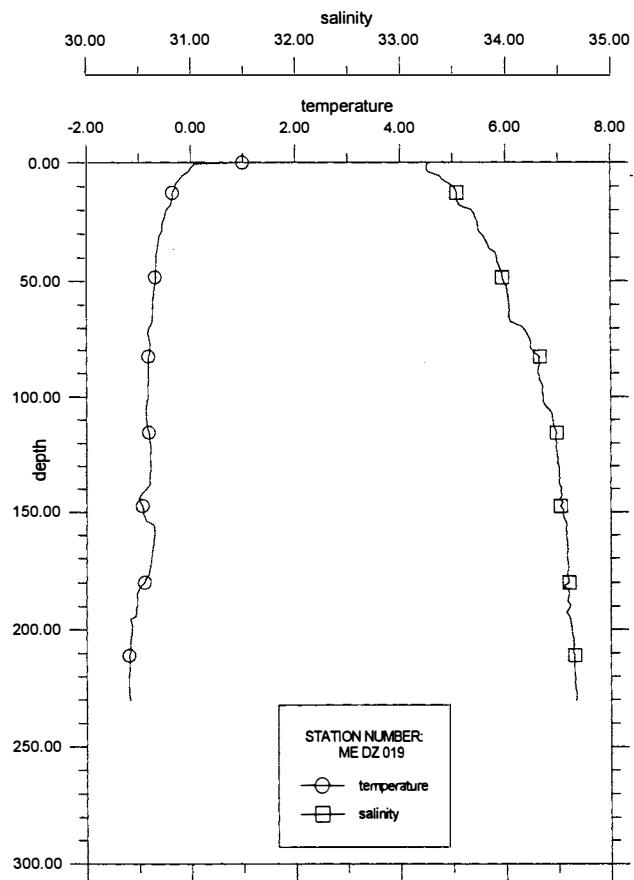
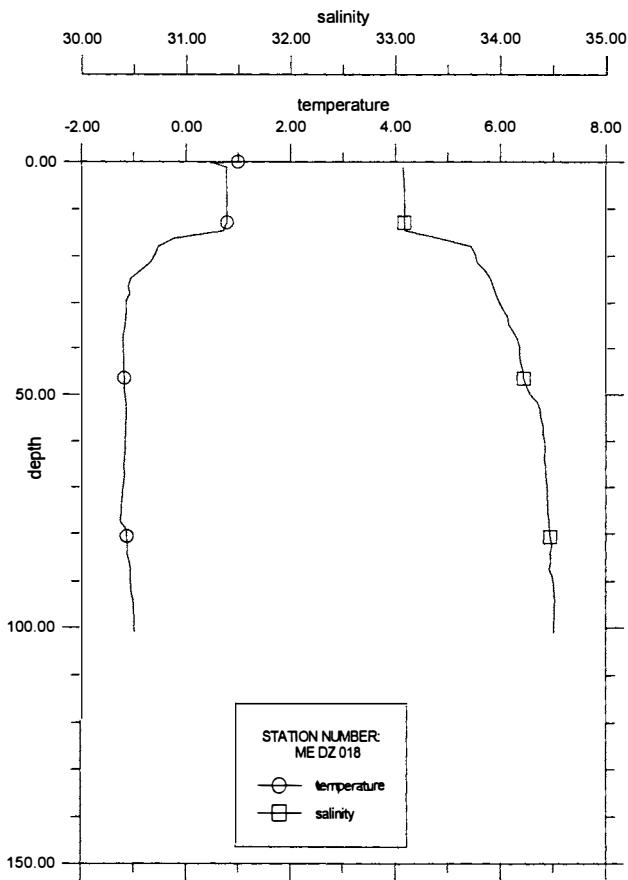
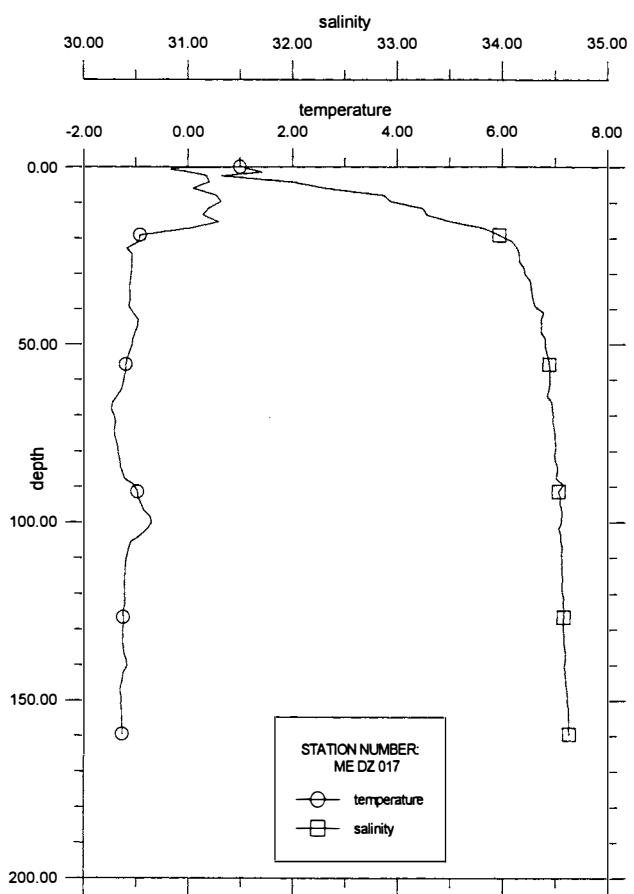
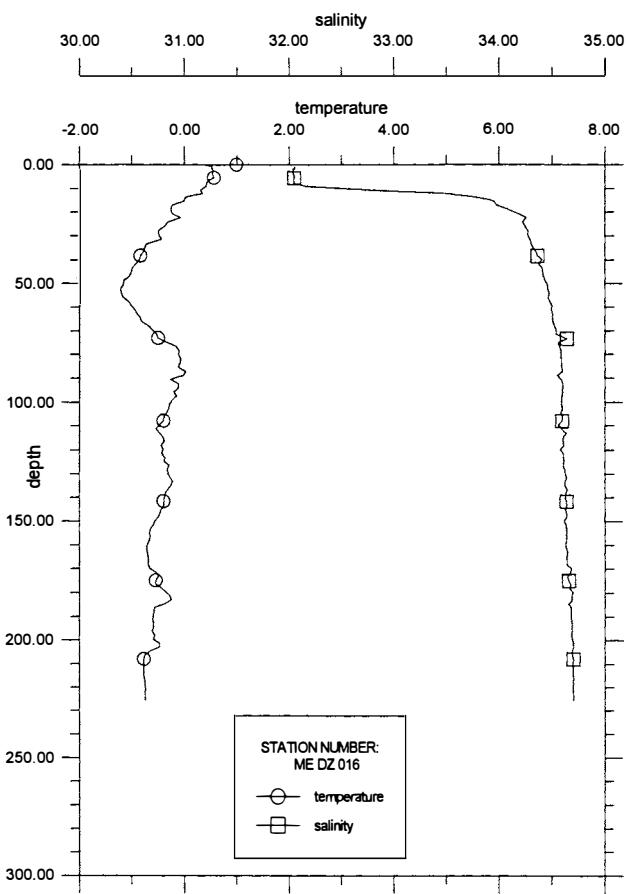
Profile plots

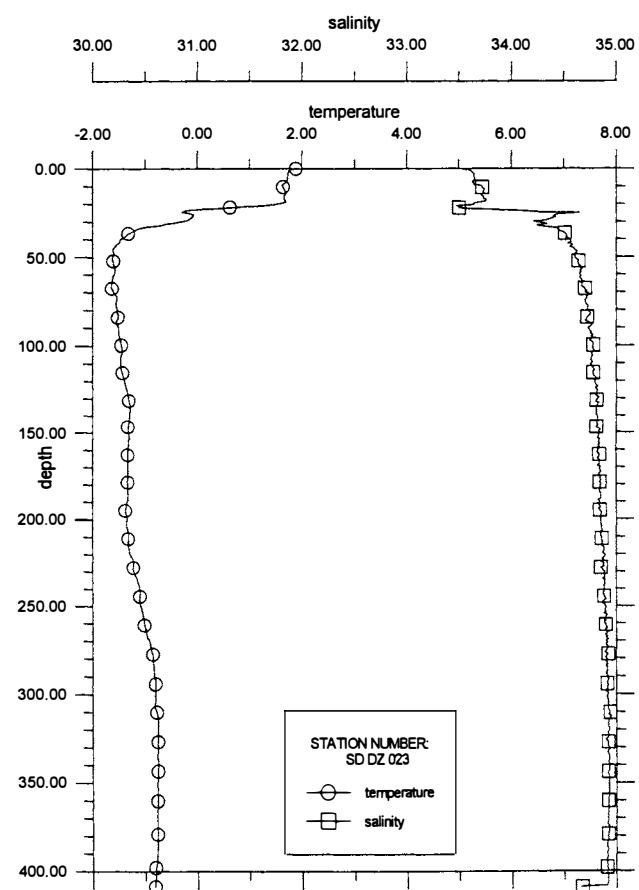
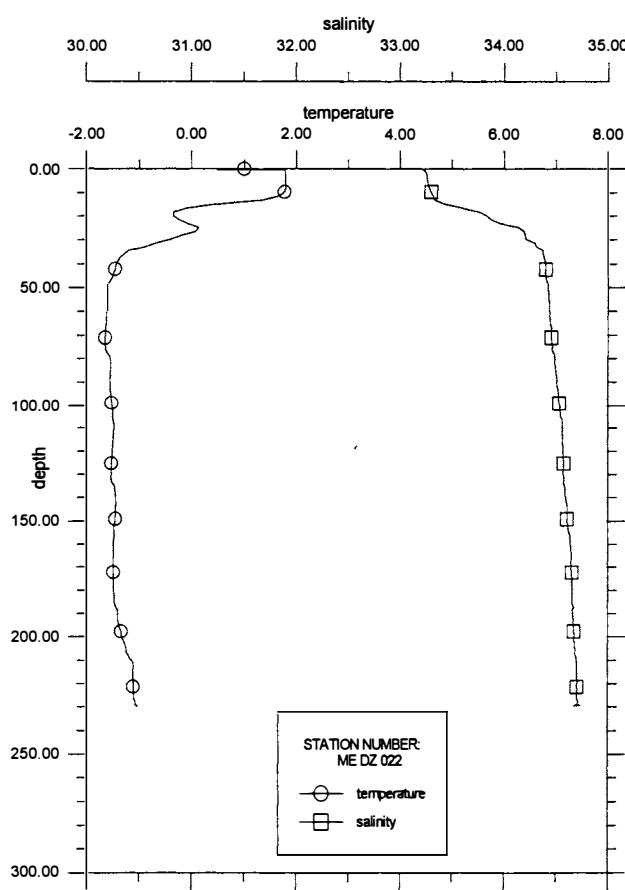
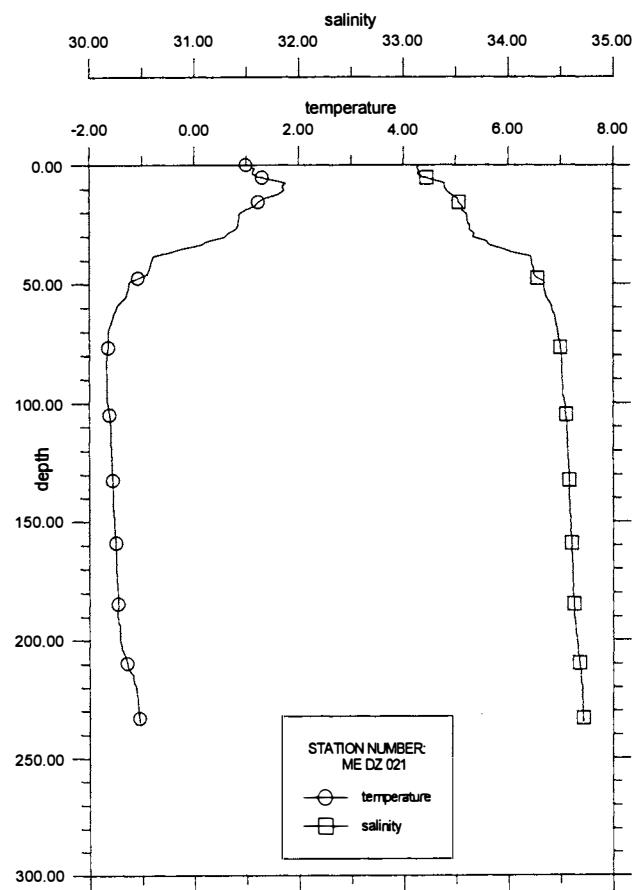
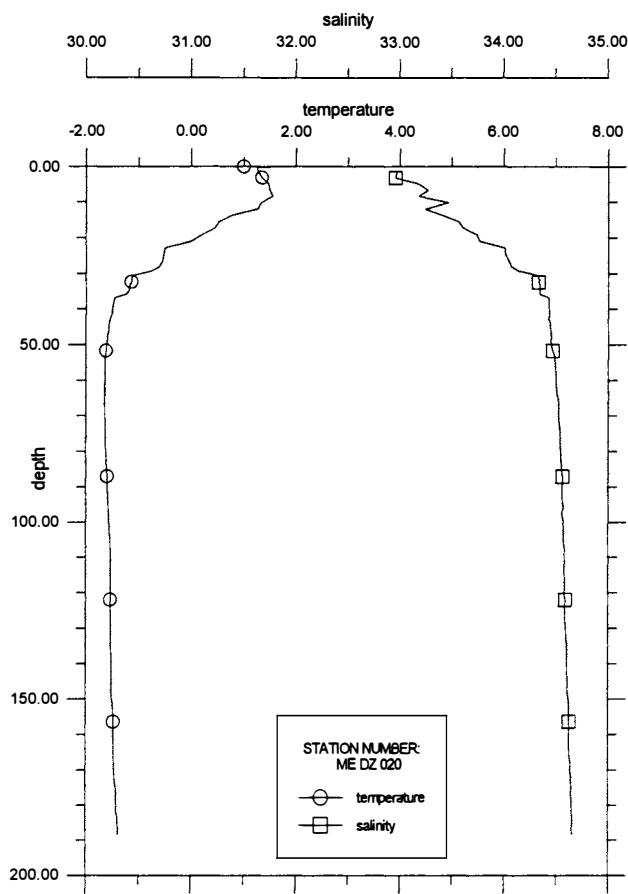
The profile plots show temperature and salinity profiles for each of the stations. Depth is shown in decibars. Each 20th measurement is marked with a square or a rectangle, except at some of the shallowest stations where all data are marked. On the latter plots the data points are not connected with a line. The software used is GRAPHER.

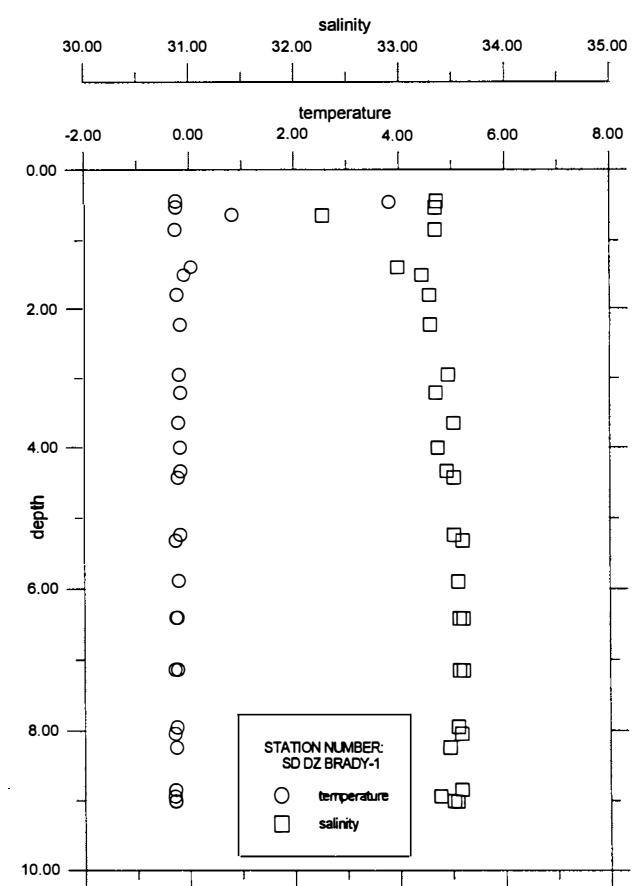
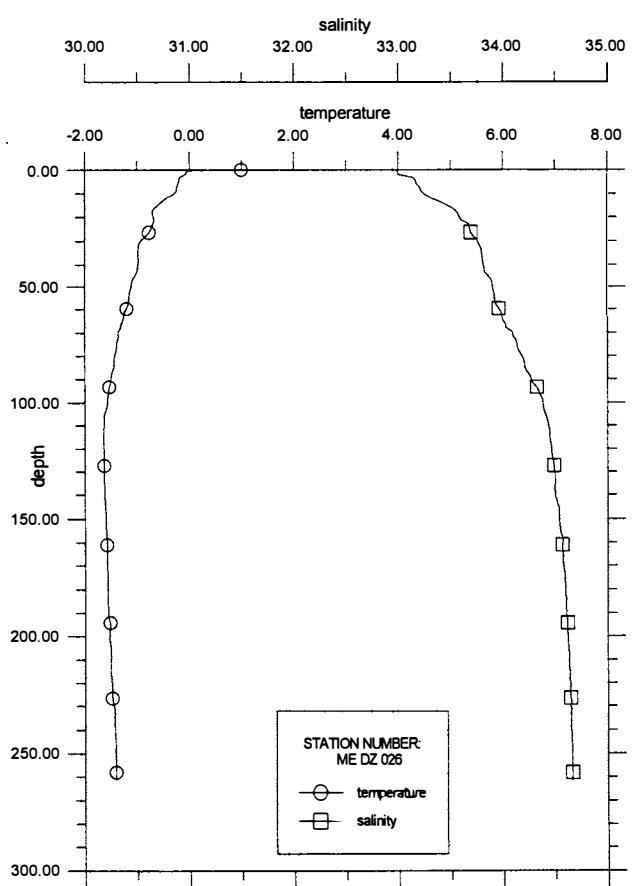
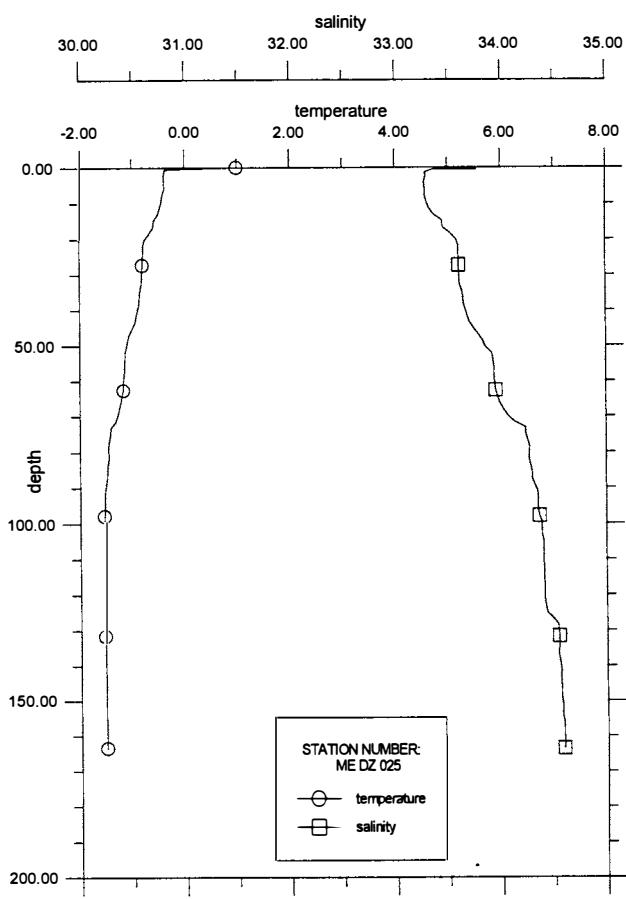
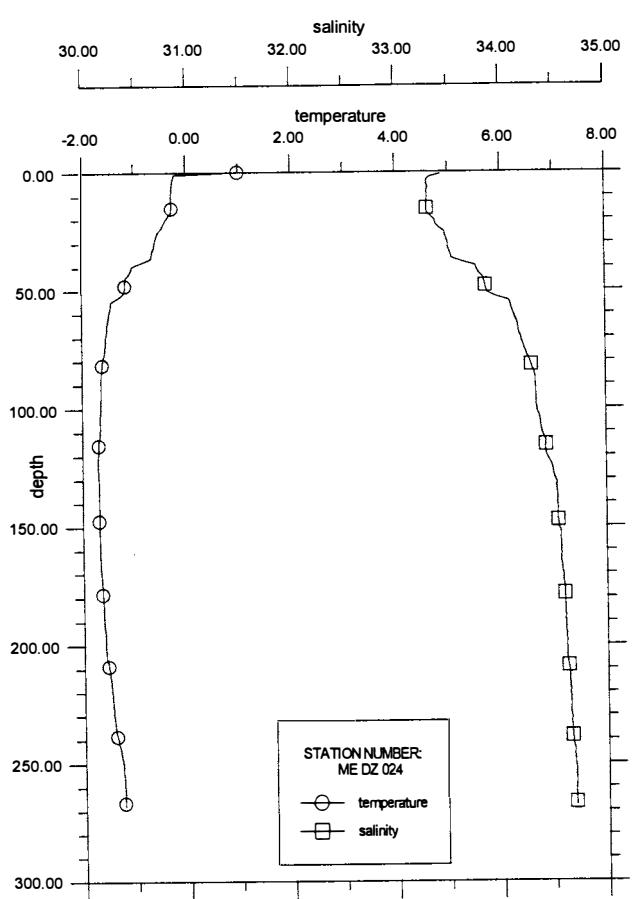


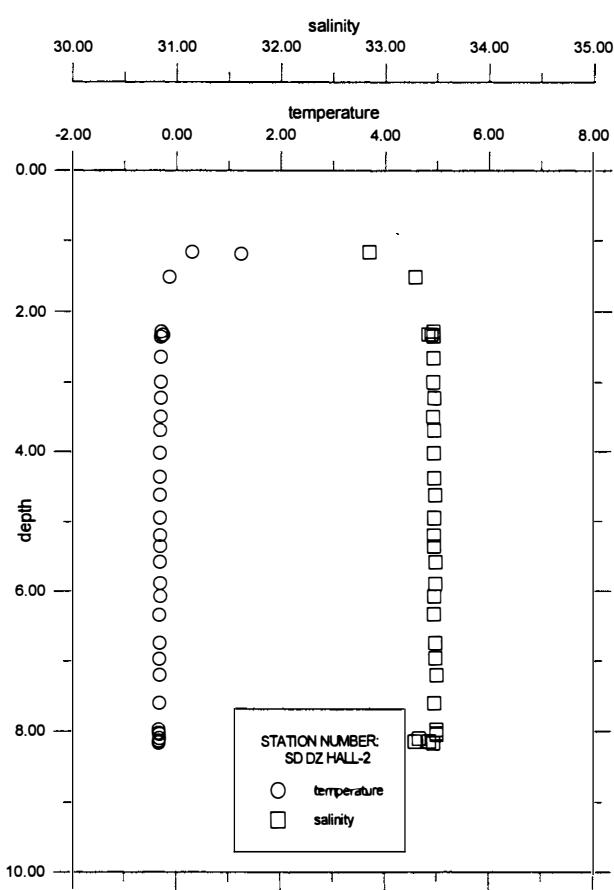
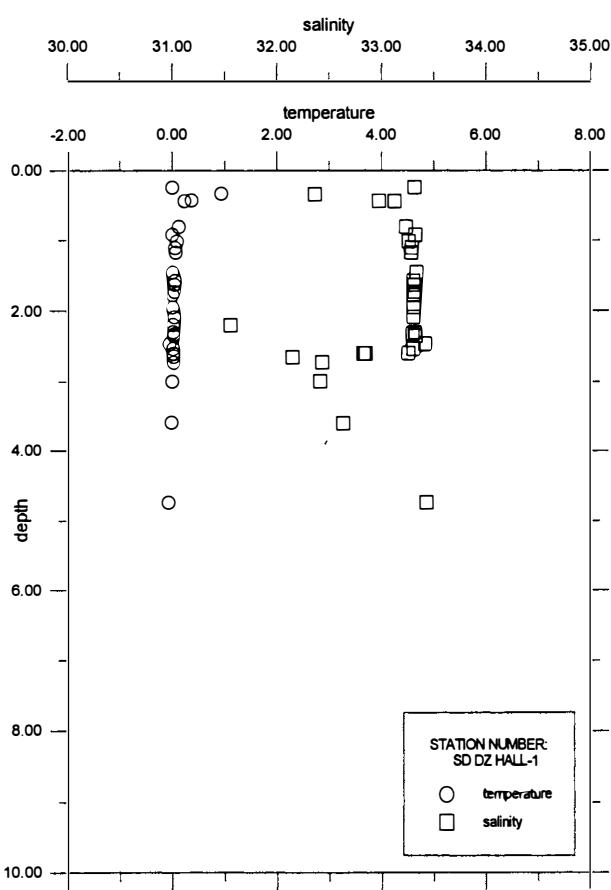
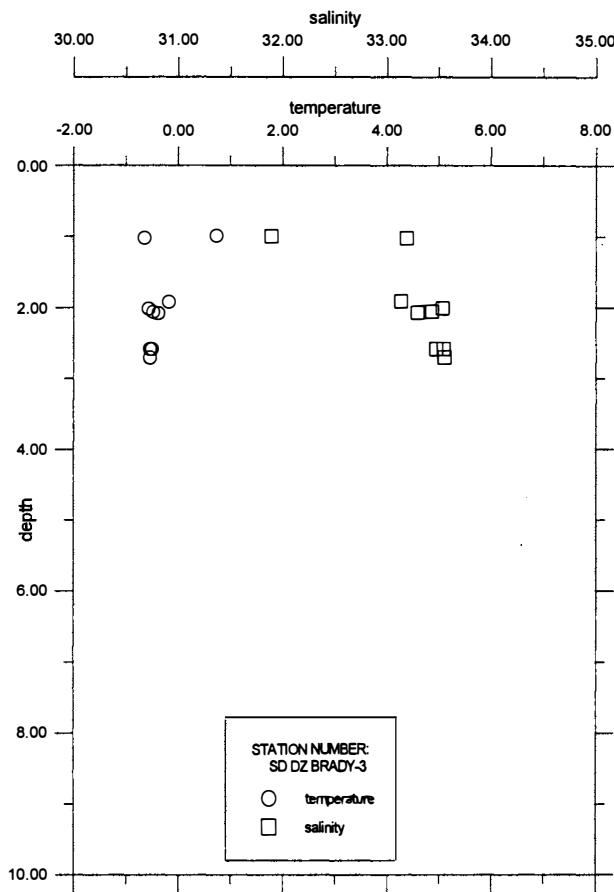
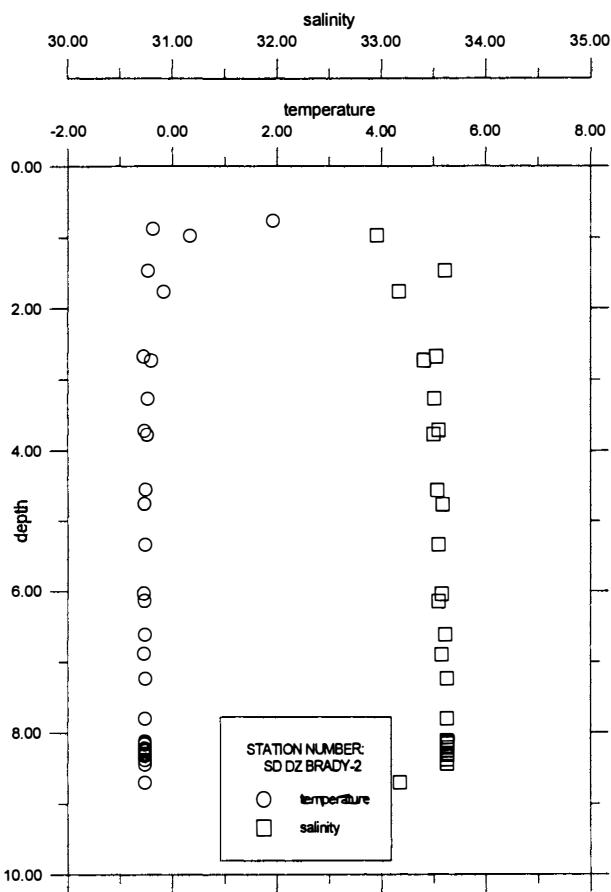


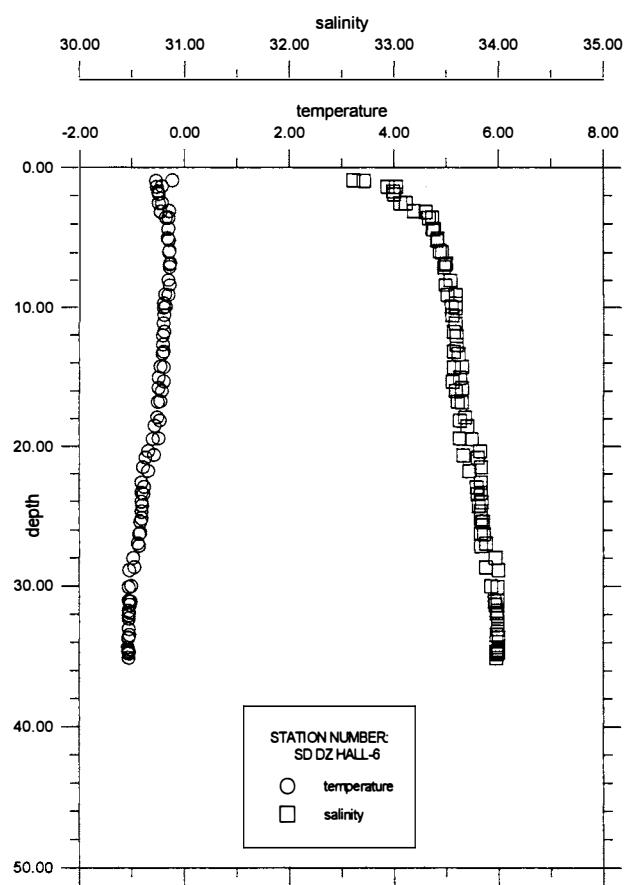
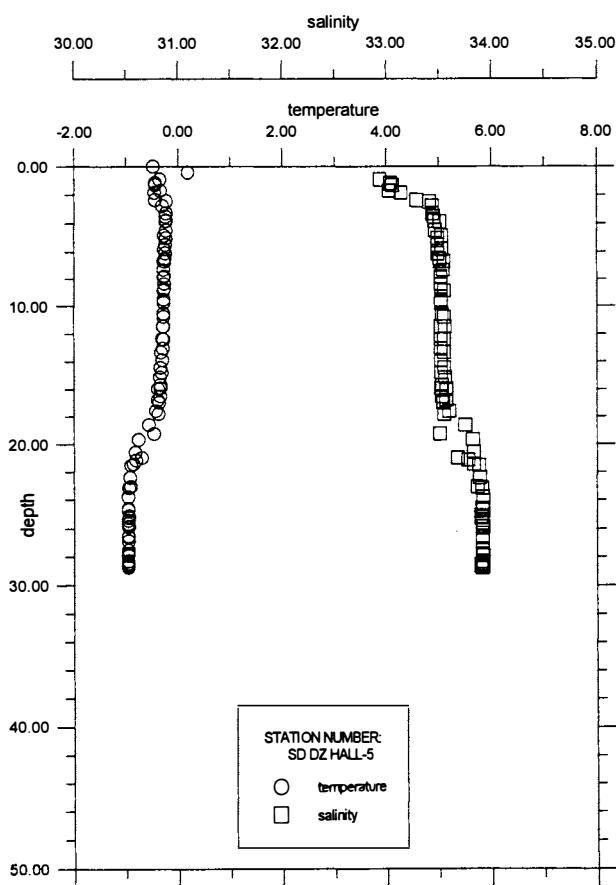
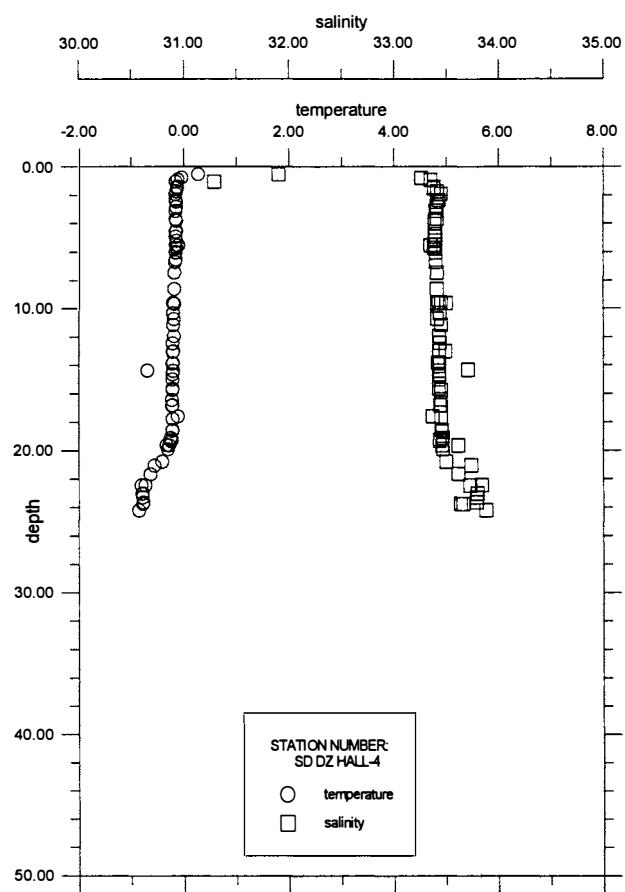
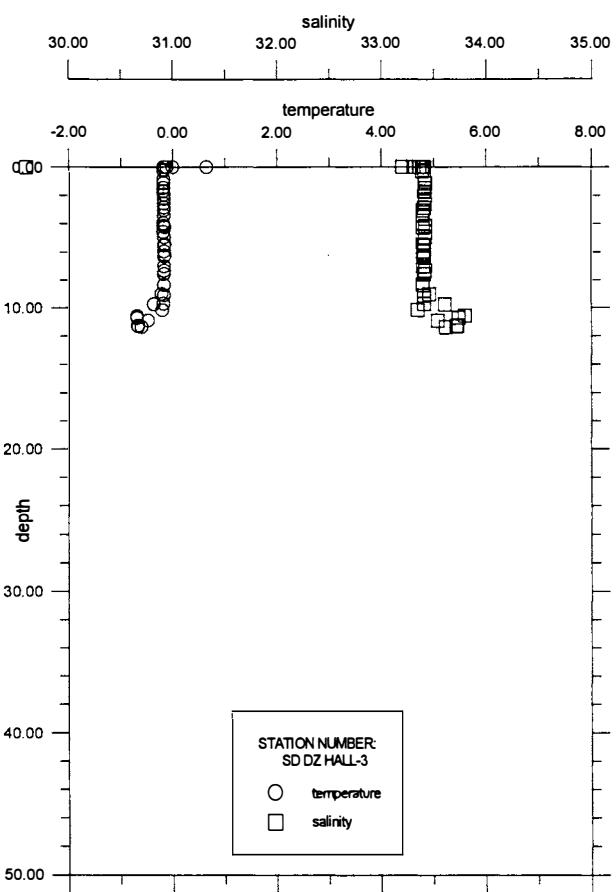


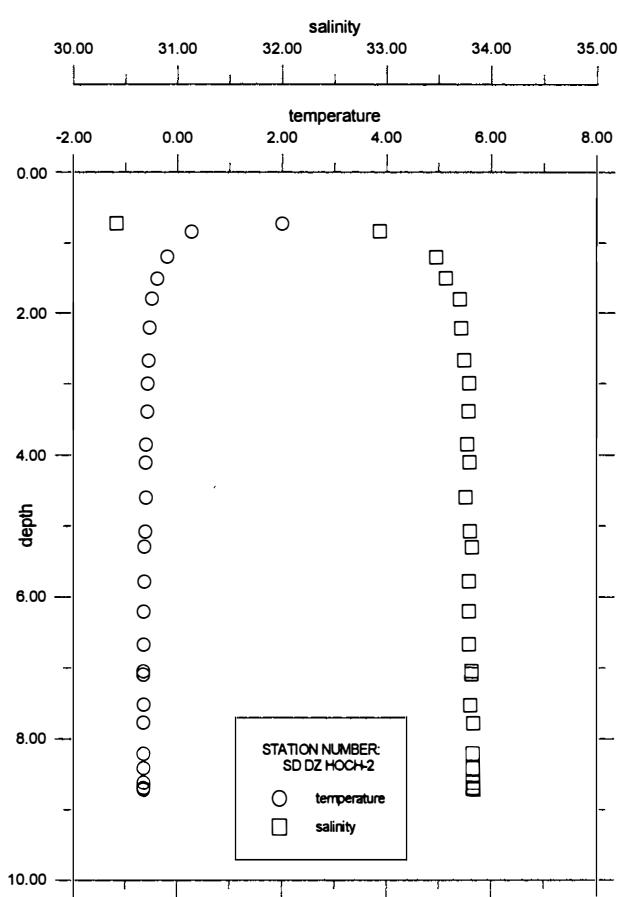
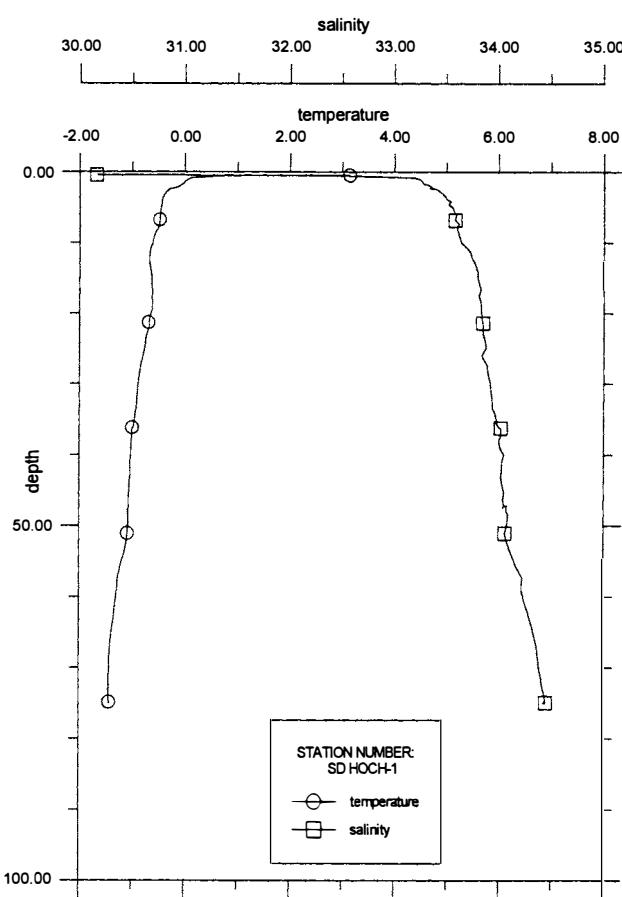












Produsert av GCS A/S, OSLO