+ 3249.

5m 32482.5

Wind = m/s

Vis = km

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
000	56 25.24 N	153 04.24 W	29 AUG 90	0449											29	KTEST

CTD Type & SN: SEABIRD

Press. SN: 411681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32470	
Temp.	82	
Cond.	3077.	

Times	JD/Time
Data on	
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number: Koditas -

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond.~~ Sal	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		0249	23.14	9.2831	32.1466					1,2		
2	2	15		0250	16,60	10,5388	31.9318					—		No trip
3	3	10		0251	11,68	10,5686	31,9025					3,4		
4	4	5		0252	5,78	10.5851	31,9260		000 KPost			5-8		-31,90550 -
6														
7														
8														
9														
10														
11														
12														

32482 5m

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
1	53 59.89 N	162 28.27 W	30 Aug 90	1906											1654	Test 2

CTD Type & SN SEABIRD

Press. SN 41681

Temp. SN 1072

Cond. SN 748

Monitor Checks

	on Deck:	at Surface:
Press.	324170.562	
Temp.	7891.235	
Cond.	307720	

Times	JD/Time
Data on	1857
at Surface	1857
Start Down	1857
at Bottom	1906
Start Up	1907
at Surface	1923
Data Off	1925

Data Location
Floppy Number Koditer -

Remarks Long cast to get wire well-wound on drum.

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		170	1906	1906	169.14	3,518	33,6135	3						2,7,9,10 did not trip
2	11	25	1919	1919	24,57	10,4773	32,45410	32,4541	Test 2 001					-32.45614-
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
—	5656.16N	16635.50W	015EP90	0032	.	.									76	TEST3

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32472.195	32477.812
Temp.	variable 8493.872	7708.828
Cond.	3077.191	9802.835

Times	JD/Time
Data on	0029
at Surface	
Start Down	
at Bottom	0032
Start Up	0032
at Surface	
Data Off	0043

Data Location
Floppy Number

Remarks: Test 3 Southern Bering

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														No samples taken
2														Alarm at 70 m
3														#8 leaked / swapped out
4														
5														
6														
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / **ICE**

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
H	59 36.101	167 38.261	01 SEP 90	18 25											32	TEST4

CTD Type & SN	SEABIRD
Press. SN	4681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32467.62	32468.16
Temp.	7534.5	7562.2
Cond.	3089.33	3102.14

Times	JD/Time
Data on	1824
at Surface	1822
Start Down	1822
at Bottom	1825
Start Up	1829
at Surface	1834
Data Off	

Data Location
Floppy Number

Remarks
Test cast in central Bering 230 nm s of Shpanberg

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														28.44 m = 35525.092 on channel 2
2														
3														Data file TEST4.DAT missed first
4														15m due to comm'n problem
5														
6														All bottles tripped at 25m
7														no samples taken
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	59 36.219	167 38.965	01 SEP 90	1916											32	TEST5

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32468.6	32472.6
Temp.	7558.3	7561.9
Cond.	9590.5	9593.1

Times	JD/Time
Data on	1911
at Surface	1911
Start Down	1914
at Bottom	1916
Start Up	1917
at Surface	1921
Data Off	1923

Data Location
Floppy Number

Remarks: test cast off Nunivak 207 leakers

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	30m	1918											no samples taken
2	2	25	1918											leaker / shortened inside line
3	3	20												
4	4	15												
5	5	10												
6	6	5												
7	7	5												leaker / shortened inside line
8	8	5	1920											
9	9	5												
10	10	5												
11	11	sfc	1921											
12	12	sfc												

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	63 12.83 N	168 09.29 W	02 SEP 90	18 25	.	.									27	TEST 6

CTD Type & SN: SEABIRD

Press. SN:

Temp. SN:

Cond. SN:

Monitor Checks

	on Deck:	at Surface:
Press.	32467.033	32470.620
Temp.	7116.969	8980.640
Cond.	3077.234	6669.125

Times	JD/Time
Data on	1823
at Surface	1823
Start Down	1823
at Bottom	1825
Start Up	1826
at Surface	
Data Off	1831

Data Location
Floppy Number

Remarks
Test 6, done in Shpanberg Strait

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														
2		23	1825	✓	22.37	1.767	31.798		Test 1					— Unstable — skip —
3														3 is leaker / shortened ✓
4		15	1828		15.17	1.749	31.794							
6														
7														
8														
9														
10		7	1830		6.66	2.034	31.781		Test 2					Unstable — skip
11		2	1831		2.48	2.425	31.768							
12														

Sea State

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb (Сухой)	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
1	65 54.68 N	169 25.24 W	03 Sep 90	1126	6.7	6.7	01	3	0.4	053	07	–	–	–	57	A01

Atmosph. press. / Барометр. давление; Sea state / Состояние моря; Cloud type / Облака Тип облаков; Weath. / Погода

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466.671	32469.855
Temp.	7144.047	9123.732
Cond.	3077.167	6888.820

Times	JD/Time
Data on	1125
at Surface	1125
Start Down	1125
at Bottom	1126
Start Up	1127
at Surface	1131
Data Off	1133

Data Location
Floppy Number A01–
Cassette A01–A05
5¼ A01–

Remarks to 25 m
Anchoring
High-volume filtration at station.
ASC done

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25	1127	1127	27.39	2.796	32.817	–	A01 A02			6		A — Autosal 32.82469 —
2		20	1128	1128	20.46	2.801	32.818	–				5		
3		15	1129	1129	14.30	2.799	32.818					4		
4		10	1129	1129	10.03	2.796	32.818					3		
5		5	1130	1130	4.97	2.801	32.818					2		
6		0	1131	1131	1.91	2.815	32.818					1		bucket sample HPLC
7														
8														
9														
10														
11														
12														

30HM

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE -90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
2	65 53.39 N	169 16.57 W	03 SEP 90	1449	6.5	6.5	000	3	0.4	110	6.0	-	-	-	48 (44)	A02

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466.403	3
Temp.	7347.593	7347.593
Cond.	3079.160	3079.160

Times	JD/Time
Data on	1447
at Surface	1447
Start Down	1447
at Bottom	1449
Start Up	1449
at Surface	1452
Data Off	1455

Data Location: (or 1000.8)

Floppy Number: A01-

Remarks: to 25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		1449	23.31	3.051	32.778		A02 #1			12		[ship does pH also] Autosal 32.78328
2	2	20		1449	20.16	3.045	32.776					11		
3	3	15		1450	14.47	3.045	32.777					10		
4	4	10		1451	8.91	3.034	32.770					9		
5	5	5		1451	5.27	3.041	32.769					8		
6	6	0		1452	3.06	3.046	32.768					7		bucket sample: HPLC
7														
8														
9														
10														
11														
12														

датометтр

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
3	4551.75N	16907.47W	03SEP90	1549	6.3	6.3	01	3	5	101	5.0	10	6	100	47	A03

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466.574	
Temp.	7439.238	
Cond.	3077.144	

Times	JD/Time
Data on	1548
at Surface	1548
Start Down	1548
at Bottom	1549
Start Up	1548
at Surface	1552
Data Off	1554

Data Location: 1000.73
Floppy Number:

Remarks: to 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond.~~ Sal.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1549	24.64	2.545	32.647		A03 #1			18		Autosal 32.65274
2		20		1549	19.82	2.543	32.647					17		
3		15		1550	15.39	2.528	32.645					16		
4		10		1551	9.85	2.528	32.644					15		
5		5		1551	5.43	2.526	32.643					14		
6		0		1552	2.56	2.522	32.643					13		bucket sample HPLC pigments High Pressure Liquid Chromatography
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
4	65 47.45 N	168 47.83 W	03 SEP 90	17 19	6.9	6.7	01	1	66 0.6	098	03	10	10	1/2	53	A04

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32467.207	32470.507
Temp.	7449.906	6742.687
Cond.	3077.152	9100.167

Times	JD/Time
Data on	1716
at Surface	1716
Start Down	1716
at Bottom	1739
Start Up	1720
at Surface	1726
Data Off	1728

Data Location: 1000.7 14 3.0
Floppy Number: A01-A06
Casts A01-A05
H: ✓
A: ✓

Remarks: to depth
Cast in E Bering St. near Little Diomede.

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		50		1720	50.24	3.149	32.242			1		28		
2		45		1720	45.17	3.152	32.244		A04 #1			27		— Autsal 32.25143 —
3		40		1721	40.18	3.149	32.245					26		
4		35		1721	35.54	3.154	32.243					25		
5		25		1723	24.89	3.155	32.242					24		
		20		1724	19.13	3.152	32.246					23		
7		15		1724	14.88	3.162	32.245		A04 #2			22		Autosal 32.24910
8		10		1725	9.90	3.158	32.245					21		
9		5		1725	5.05	3.186	32.249					20		
10		0		1726	2.41	3.170	32.246			2		19		Bucket HPLC
11	X													
12	X													

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
5	65 46.49 N	168 35.27 W	03 SEP 90	1833											5054	1705

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32467.628	32471.320
Temp.	7740.628	7527.042
Cond.	3077.191	9581.285

Times	JD/Time
Data on	1831
at Surface	1831
Start Down	1831
at Bottom	1833
Start Up	
at Surface	
Data Off	1844

Data Location
Floppy Number A01–A06
Cassette A01–A05

Remarks
v. ASC
Anchor
Sediment Sample
high-volume pumping
mooring deployed

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		50			50.68	6.600	31.567		A01	4	✓	39		
2		45			45.51	6.676	31.553		A05 #1			38		Autosal 31.55828
3		40			40.03	6.705	31.546					37		
4		35			35.54	6.762	31.541					36		
		30			30.84	6.736	31.538					35		
6		25			24.34	6.848	31.532					34		
7		20			19.96	6.892	31.530		A05 #2			33		Autosal 31.53404
8		15			15.21	6.994	31.530					32		
9		10			9.82	7.121	31.536					31		
10		5			4.89	7.608	31.526					30		
11		0			2.29	8.174	31.493			3		29		Bucket + PLC
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / **ICE**

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
66	65 44.00	168 20.00	03 09 90	22 40	9.8	9.6	99	2		144	56	10	6	00	46	A06

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32469.5	32475
Temp.	~~8088~~.8	8087
Cond.	3025.5	9086

Times	JD/Time
Data on	2236
at Surface	2236
Start Down	2238
at Bottom	2240
Start Up	2240
at Surface	2247
Data Off	2248

Data Location: Floppy Number (A01-A06)
Remarks: ✓ ASC done
Eastern Bering St.
No 5w cassette
H:\
no audiotape

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		46		2240	45.86	8.85	30.81			6	1	50		O2 sample 018
2		40		2241	39.89	8.87	30.79		A06 #2			49		Salinity sample 30.80279
3		35		2242	35.16	8.87	30.78					48		
4		30		2243	29.83	8.87	30.79					47		
5		25		2243	24.53	8.89	30.75					46		
6		20		2244	19.55	8.90	30.73					45		
7		20							A06 #1			44		Salinity sample. Autosal 30.74491
8		15		2245	14.10	8.93	30.70					43		
9		10		2245	9.18	9.40	30.23					42		
10		5		2246	4.45	10.96	27.63					41		O2
11		stc		2247	2.03	11.44	26.08			5		40		O2 sample, HPLC
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ **ICE**

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
7	6607.02N	16728.64W	04SEP90	1338	9.3	8.5	999.9	3	15	178	8	10	7	20	22	101

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32468.871	32472.535
Temp.	7695.500	8035.109
Cond.	3084.355	9345.492

Times	JD/Time
Data on	1337
at Surface	1337
Start Down	1337
at Bottom	1338
Start Up	1338
at Surface	1341
Data Off	1341

Data Location
Floppy Number A01

Remarks: 1st cast in Kotzebue Sound Section NE of Bering Strait
Strong current

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		18		1338	18.89	11.286	27.478			14		55		
2		15		1339	15.02	11.303	27.369		S01 #1			54		– 27.35164 –
3		10		1339	10.22	11.308	27.231					53		
4		5		1340	4.98	11.317	27.197					52		
5		0		1341	1.63	11.310	27.199			13		51		Bucket HPLC sample
6														
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX-90 / ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
8	66 25.07 N	167 18.95 W	04 SEP 90	1544	8.7	8.3	1000	4	12	199	8.3	10	3	3/8	262	L02

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32469.417 / 32479.335
Temp. SN	1072	Temp.	7519.125 / 7987.253
Cond. SN	748	Cond.	3077.222 / 9463.621

Times	JD/Time
Data on	1543
at Surface	1543
Start Down	1543
at Bottom	1544
Start Up	1544
at Surface	1547
Data Off	1550

Data Location 999.87
Floppy Number A01-

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1544	23.91	10.865	28.760			16		61		
2		20		1545	20.24	10.937	28.654					60		
3		15		1546	14.38	11.062	28.521		SO2 #1			59		— 28.52114 —
4		10		1546	10.27	11.072	28.422					58		
5		5		1547	4.86	11.100	28.232					57		
6		0		1547	3.40	11.096	28.235			15		56		Bucket HPLC Sample — 28.52114 —
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX-90/ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
9	6644.95N	16708.45W	04SEP90	1807	8.8	7.8	1004	12	156	9.8	107	46			34	L03

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32469.050	32473.648
Temp.	7511.757	7971.070
Cond.	3077.195	9606.101

Times	JD/Time
Data on	1804
at Surface	1804
Start Down	1804
at Bottom	1806
Start Up	1807
at Surface	1811
Data Off	1813

Data Location: 1000.3 7
Floppy Number: A01-
H:\
Cass. L1-

Remarks: S03 (S01, S02) should be L01, L02, L03

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		35		1807	34.79	9.593	30.623			18		69		
2		30		1807	29.86	9.601	30633		S03 #1			68		-30.63314-
3		25		1808	24.19	9.688	30.427					67		
4		20		1808	20.14	10.209	30.151					66		
5		15		1809	14.95	10.988	29.545					65		
6		10		1810	9.91	10.984	29.410					64		
7		5		1810	4.92	10.985	29.394		S03 #2			63		-29.39386-
8		0		1811	2.23	10.983	29.394			17		62		HP Bucket HPLC sample
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEx-90 / **ICE**

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
10	67 05.025	166 57.585	04SEP90	2030	8.7	7.7	06	5	15	152	10	10	5	4/00	44	L04

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks — on Deck: Press. 32468; Temp. 7516; Cond. 7223 — at Surface:

Times	JD/Time
Data on	2028
at Surface	2026
Start Down	2028
at Bottom	2030
Start Up	2030
at Surface	2035
Data Off	2038

Data Location: Floppy Number 9

Remarks: L04 = S04 station #

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	40	2030		39.34	7.89	30.99		L04 #1	20		78		O_2, -30.99845-
2	2	35	2031		34.95	7.93	30.99					77		
3	3	30	2031		29.67	8.35	30.90					76		
4	4	25	2032		24.61	8.44	30.87					75		
5	5	20	2032		19.56	8.54	30.83					74		
6	6	15	2033		14.31	8.81	30.75					73		
7	7	10	2033		10.06	9.45	30.54					72		
8	8	5	2034		4.19	9.47	30.45		L04 #2			71		-30.46004-
9	9	stc	2035		2.25	9.46	30.45			19		70		O_2 HPLC #7
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE -90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
11	6724.497	16646.232	05SEP90	0044	8.4	7.2	00	4	20	119	90	9	5	7/8	46	L05

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press. 32468	32472
Temp. SN	1072	Temp. 7648	7587
Cond. SN	748	Cond. 3077	9533

Times	JD/Time
Data on	
at Surface	0039
Start Down	0041
at Bottom	0044
Start Up	0044
at Surface	0049
Data Off	0050

Data Location Floppy Number 12

Remarks: Soviets titrated oxygen - bottle numbers are theirs

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (2031)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		41	0043		41.52	5.19	31.68			S 13	✓	88		
2		35	44		34.68	5.70	31.66			S 12				
3		30	45		29.21	6.74	31.51		L05 #2	S 10				- 31.49266
4		25	45		24.74	6.91	31.42			S 9				
5		20	46		19.85	6.94	31.40			S 7				
6		15	47		15.38	7.74	31.12			S 6				
7		10	47		9.89	8.72	30.76			S 4				
8		5	48		4.88	8.73	30.76		L05 #1	S 3				-30.76368
9		sfc	48		3.31	8.74	30.76			S 2				
10		sfc	49		2.89	8.74	30.76			S 11		79		HPLC #3
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

m/s

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
12	67 45.952	166 36.414	05 SEP 90	03 06	8.4	7.2	00	4	20	137	90	9	5	7/8	55	L06

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	324685	32472.0
Temp.	7514.9	7504
Cond.	3077.4	9521.0

Times	JD/Time
Data on	0305
at Surface	0303
Start Down	0305
at Bottom	0306
Start Up	0306
at Surface	0312
Data Off	0314

Data Location
Floppy Number 12

Remarks
Bridge gave 45m bottom depth, sent CTD to 50m & 5m trip switch did not sound

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Sal. ~~Cond.~~	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		50			49.01	3.569	31.98			99	✓	99		
2		45			43.95	3.573	31.98		#2	98		98		31.49266 (31.4929)
3		40			40.38	3.679	31.96			97		97		
4		35			34.80	4.541	31.77			96		96		
5		30			29.65	4.815	31.72			95		95		
6		25			24.98	5.130	31.69			94		94		
7		20			19.41	6.306	31.50			93		93		
8		15			14.83	8.088	31.19			92		92		
9		10			10.74	8.135	31.17			91		91		
10		5			5.11	8.140	31.17		#106	90		90		? 31.17107 (31.17133)
11		sfc			2.25	8.142	31.17			89		89		HPLC
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
13	68 05.891	166 22.995	05 SEP 90	0521	8.9	8.1	1004	4	20	119	9.5	9	2	70	29	407

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32468	32473
Temp.	7631	7860
Cond.	3077	9497

Times	JD/Time
Data on	0520
at Surface	0518
Start Down	0520
at Bottom	0521
Start Up	0521
at Surface	0525
Data Off	0527

Data Location
Floppy Number 12

Remarks
Bottles 1 & 2 tripped at bottom
Rosette advanced 2 on first firing

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														
2														
3		25		0521	27.85	10.375	29.12				✓	7.		
4		25		0521	27.48	10.376	29.12					6		
5		20		0522	20.54	10.379	29.11		L07			5		29.11916
6		15		0523	15.04	10.381	29.11					4		
7		10		0523	10.01	10.397	29.08					3		
8		5		0524	4.35	10.401	29.08					2		
9		sfc.		0525	2.05	10.413	29.08					1		HPLC #5
10					2.05									
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = 248 Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
14	67 17.89 N	165 46.25 W	05 SEP 90	1321	8.4	7.7	966.2	6	20	094	15	10	5	0	30	M01

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32468.250	32475.097
Temp.	7651.430	7606.055
Cond.	3077.191	9548.417

Times JD/Time

Data on	1319
at Surface	
Start Down	
at Bottom	1321
Start Up	
at Surface	
Data Off	

Data Location: 312

Floppy Number: 14.8

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	30		1321	31.82	8.662	30.858			8		14		
2	2	25		1322	25.44	8.676	30.850		M01 #1	7		13		Nut 8
3	3	20		1322	20.69	8.709	30.832			6		12		O_2
4	4	15		1323	15.24	8.757	30.804			4		11		
5	5	10		1324	8.72	8.770	30.796			3		10		
6	6	5		1324	5.74	8.754	30.805	?	M01 #1	2		9		30.85205 ?
7	7	0		1325	2.59	8.761	30.802			1		8		Surface bottle HPLC #1A
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
15	67 07.11 N	165 00.69 W	05 SEP 90	17 21	8.8	8.4	993.6	20	012	087	15.5	10	8	60	29	M02

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32469.488	32475.233
Temp.	7734.570	7850.057
Cond.	3077.300	9457.410

Times	JD/Time
Data on	1719
at Surface	1719
Start Down	1719
at Bottom	1721
Start Up	1721
at Surface	1724
Data Off	1726

Data Location Floppy Number

Remarks: Kotz. Sound Rough

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		1721	28.52	9.157	30.318							
2	2	20		1721	21.50	9.456	30.074							
3	3	15		1722	15.95	10.458	28.816							
4	4	10		1723	9.86	10.509	28.659		M02 #1					—28.66088—
5	5	5		1723	5.65	10.507	28.660							
6	6	0		1724	2.29	10.505	28.662							
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

m/s

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
16	66 56.98 N	164 22.38 W	05 SEP 90	20 44	8.0	7.4	888	6	13	087	15	6	7	2	28	M03

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32469	
Temp.	7504	
Cond.	3081	

Times	JD/Time
Data on	2043
at Surface	2041
Start Down	2043
at Bottom	2044
Start Up	2044
at Surface	2047
Data Off	2049

Data Location: Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		20.44	24.99	10.350	28.88				✓			
2		20		20.45	21.12	10.413	28.787							
3		15		20.46	14.10	10.582	28.477							
4		10		2046	10.45	10.582	28.49		M03					Unstable (28.49017)
		5		2047	6.13	10.581	28.49							
6		stc		2047	2.58	10.582	28.48							HPLC # 2
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

m/s

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
17	66 46.66 N	163 30.32 W	06 SEP 90	00 51	8.4	8.0	81	6	12	088	13	8	2	00 N	21	m04

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32467	32472
Temp.	7760	7920
Cond.	3077	9429

Times	JD/Time
Data on	0049
at Surface	0047
Start Down	
at Bottom	0049
Start Up	0049
at Surface	0051
Data Off	0052

Data Location: Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		15		0049	16.13	10.699	28.31				✓	30		
2		10		0050	9.62	10.697	28.30		MOY			29		28.30292 OR 28.30279
3		5		0050	4.51	10.696	28.30					28		
4		stc		0051	2.02	10.696	28.30					27		HPLC #7
5														
6														
7														
8														
9														
10														
11														
12														

✓

Ship: Professor Khromov

CHOEX-90 / ICE -90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
18	66 38.69 N	163 36.34 W	06 SEP 90	0207	10.2	9.6	81	4	8	144	70	6	5	6	27	NO1

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32469	32475
Temp.	7962	7947
Cond.	3077	9445

Times	JD/Time
Data on	0205
at Surface	0203
Start Down	0205
at Bottom	0207
Start Up	0207
at Surface	0209
Data Off	0210

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		20			19.68	10.833	28.29				✓	35		
2		15			14.78	10.839	28.29					34		
3		10			10.00	10.847	28.29		NO1			33		— 28.29353 —
4		5			4.88	10.857	28.29					32		
5		sfc			2.33	10.862	28.29					31		HPLC #8.
6														
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
19	66 38.72 N	164 28.39 W	06 Sep 90	0501	8.3	7.9	84	5	15	259	9 m/s	10	3	38	19	N02

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32468	32474
Temp.	7593	7936
Cond.	3077	9380

Times	JD/Time
Data on	0459
at Surface	0458
Start Down	0459
at Bottom	0500
Start Up	0500
at Surface	0502
Data Off	0503

Data Location
Floppy Number 9

Remarks
Bottle 1 did not fire assumed pin set at 1 rather than 12 position

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Sal. ~~Cond.~~	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		nf			16.38	10.796	27.85				✓			
2		15			16.38	10.796	27.85		N02		✓	39		
3		10			10.24	10.794	27.85		N02			38		27.85645
4		5c			4.89	10.793	27.85					37		
5		sfc			2.69	10.789	27.85					36		HPLC #1
6														
7														
8														
9														
10														
11														
12														

743

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
2	0666 40.76	1652 1.12	06 SEP 90	0744	7.8	7.0	989	5	15	258	10	10	3	4	27	N03

988.89 9.9

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32467.574	32472.957
Temp.	7440.824	7944.074
Cond.	3077.226	9330.781

Times	JD/Time
Data on	0742
at Surface	0742
Start Down	0742
at Bottom	0744
Start Up	0745
at Surface	0746
Data Off	0749

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal.)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		20		0744	20.77	10.885	27.860		N03 #1		✓	44		27.86444
2		15		0745	15.36	10.898	27.670					43		
3		10		0745	10.12	10.851	27.453					42		
4		5		0746	5.00	10.848	27.452					41		
		0		0746	2.27	10.844	27.451					40		
6														
7														
8														
9														
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
21	66 42.54 N	166 19.13 W	06 SEP 90	10	6.9	6.0	990.39	5	15	306	11	10	3	0-5	27	N04

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32468.730	32473.832
Temp.	7350-7359	7930.460
Cond.	3077.148	9455.242

Times	JD/Time
Data on	1019
at Surface	1019
Start Down	1019
at Bottom	1020
Start Up	
at Surface	
Data Off	1024

Data Location: 10.8

Floppy Number

Remarks: hit bottom: bottom trip switch did not go off. It was working - went off when we brought the CTD on deck

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		20		1020	18.78	10.745	29.285				✓	49		
2		15		1021	16.21	10.762	29.271		N04 #1			48		Unstable Autosal
3		10		1021	9.93	10.773	28.507					47		
4		5		1022	5.29	10.765	28.423					46		
		0		1023	2.29	10.760	28.412					45		
6														
7														
8														
9														
10														
11														
12														

ard

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
22	66 44.75 N	167 08.90	06 SEP 90	1329	6.2	5.2	976	6	15	333	15	10	3		35	N05

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press. 32467.375	32474.225
Temp. SN	1072	Temp. 7288-7201	7698.044
Cond. SN	748	Cond. 3077.183	9547.955

Times	JD/Time
Data on	1327
at Surface	1327
Start Down	1327
at Bottom	1329
Start Up	1329
at Surface	1333
Data Off	1335

Data Location: 996.69 / 15.1
Floppy Number

Remarks: Almost in same place as L03

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	30		1329	29.51	8.538	30.969				✓	55		
2	2	20		1330	18.74	8.700	30.803					54		
3	3	15		1331	15.86	8.032	30.537					53		
4	4	10		1331	11.72	9.325	30.309					52		
5	5	5		1332	6.46	9.331	30.303		NO5 #1			51		-30.30405-
6	6	0		1333	0.53	7.338	30.303					50		HPLC
7					bottle tripped in air ?									
8														
9														
10														
11														
12														

✓

1644

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
23	66 47.99 N	168 05.02 W	06 SEP 90	1644	4.6	3.7	05	5	20	321	13	10	5	00	330	N06

1004.8 12 13.2

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.		3273.835
Temp.		7436.752
Cond.		9503.171

Times	JD/Time
Data on	1643
at Surface	1648
Start Down	1648
at Bottom	1644
Start Up	1644
at Surface	1647
Data Off	1649

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		1644	22.61	7.697	31.326 (31.385)		N06 #1					31.43292 (31.43335)
2	2	20		1645	21.80	7.715	31.373							
3	3	15		1645	16.54	7.720	31.372							
4	4	10		1646	9.24	7.702	31.372							
5	5	5		1647	5.25	7.715	31.373							
6	0	0		1647	2.56	7.716	31.371							
7														
8														
9														
10														
11														
12														

1685

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
24	66 50.05 N	168 59.49 W	06 SEP 90	19 59	3.4	2.4	11	5	20	322	10	9	5	88	57	N07

CTD Type & SN		Monitor Checks on Deck:	at Surface:
	SEABIRD		
Press. SN	41681	Press. 32466	32474
Temp. SN	1072	Temp. 6900	6797
Cond. SN	748	Cond. 3721	9130

Times	JD/Time
Data on	1958
at Surface	1957
Start Down	1958
at Bottom	1959
Start Up	1959
at Surface	2003
Data Off	2004

Data Location
Floppy Number 12

Remarks
#1 did not trip
? sample bottles
ok
High Vol

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (2003)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	X													
2	2	40		1959	39.64	2.672	32.376					70		
3	3	35		1959	35.25	2.671	32.377					69		
4	4	30		2000	29.62	2.665	32.379		N07 #1			68		32.38607
5	5	25		2000	25.01	2.658	32.380					67		
6	6	20		2001	21.01	2.661	32.379					66		
7	7	15		2001	18.14	2.674	32.38		N07 #2			65		32.30201
8	8	10		2002	9.63	3.632	32.11					64		
9	9	5		2002	3.41	3.664	32.11					63		
10	10	0		2003	1.56	3.608	32.12					62		HPLC 6
11	11													
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

m/s

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
25	66 54.35 N	169 55.81 W	07 SEP 90	03 03	3.2	2.2	1193	3	25 (15)	296	4.0	6	5	7 00	47	NO8

CTD Type & SN	SEABIRD
Press. SN	61681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32470
Temp.	6868	6706
Cond.	3077	9159

Times	JD/Time
Data on	0301
at Surface	0259
Start Down	0301
at Bottom	0303
Start Up	0303
at Surface	0305
Data Off	0306

Data Location
Floppy Number

Remarks
depth of cast restricted to 25m in Soviet waters
High Vol

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0303	26.66	2.913	33.02				✓	76		
2		20		0303	20.68	2.911	33.02					75		
3		15		0304	15.22	2.911	33.02		NO8			74		33.02639 (33.02656)
4		10		0304	10.26	2.912	33.02					73		
5		5		0305	4.26	2.921	33.02					72		
6		sfc		0305	1.60	2.923	33.02					71		HPLC #7
7														
8														
9														
10														
11														
12														

11/16

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
26	66 55.76 N	170 59.91 W	07 SEP 90	08 32	2.9	2.0	22	1	29	263	03	9	5	00	44 (40)	B01

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32467.375 (6822.6824)	32472.335
Temp.	7025.800	6830.800
Cond.	9403.917	9212.183 (~~9196~~)

Times	JD/Time
Data on	0831
at Surface	0831
Start Down	0831
at Bottom	0832
Start Up	0832
at Surface	0835
Data Off	0836

Data Location: 1022.4 12 3.0

Floppy Number

Remarks: to 25m

High vol. filter at station

Can't write to H:\ device not ready?

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Sal. (~~Cond.~~)	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		0832	25.05	2.659	32.996					82		
2	2	20		0833	20.33	3.797	32.862		B01 #1			81		32.86290
3	3	15		0833	14.14	3.824	32.851					80		
4	4	10		0834	9.65	4.011	32.557					79		
5	5	5		0835	5.59	3.978	32.442					78		
6	6	0		0835	1.69	3.994	32.442					77		HPLC 1
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOLEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
27	67 02.57 N	170 40.23 W	275 EP 90	1200	3.1	1.6	24	2	30	269	05	2	2	70	47	B1A

1023.9 18 5.0

CTD Type & SN SEABIRD

Press. SN 41681

Temp. SN 1072

Cond. SN 748

Monitor Checks	on Deck:	at Surface:
Press.	3247.472	3247.222
Temp.	6903.135	6816.992
Cond.	9311.352	9178.093

Times	JD/Time
Data on	1159
at Surface	1159
Start Down	1159
at Bottom	1200
Start Up	1200
at Surface	1203
Data Off	1203

Data Location
Floppy Number

Remarks Extra Cast added
1). To see horizontal gradients noticed in prev. transect.
2). to spend time to get to site where we need to recover a mooring in daylight
Cast to 25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Sal. ~~Cond.~~	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1200	24.17	2.602	33.099				✓	88		
2		20		1201	20.50	2.677	33.070					87		
3		15		1201	15.10	2.941	33.012					86		
4		10		1202	9.76	3.596	32.608					85		
5		5		1203	5.23	3.721	32.461		B1A #1			84		32.44889
6		0		1203	2.31	3.713	32.428					83		HPLC 2
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
28	67 08.99 N	170 18.63 W	07 SEP 90	20 11	3.3	1.9	24	2	30 (18)	180	5.6	8	3	3 2 8	48	B02

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32472
Temp.	7045	6800
Cond.	9420	9165

Times	JD/Time
Data on	2016
at Surface	2008
Start Down	2010
25m at ~~Bottom~~	2011
Start Up	2011
at Surface	2015
Data Off	2016

Data Location
Floppy Number

Remarks: Salinity deck check high due to salt water pump to keep cell from freezing

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond. (2nd)	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		X												not used
2		X												bottle broken before deployment
3		25			27.65	2.363	33.10					95		start c 3
4		25			24.59	2.405	33.10		B02 #2			94		33.10521
5		20			19.67	2.815	32.98					93		
6		15			14.73	2.982	32.798					92		
7		10			9.63	3.209	32.75					91		
8		5			4.77	3.558	32.34					90		
9		X			0.21	3.591	32.35							Missed sample – bottle 10 has stc sample
10		stc			no mark file				B02 #1			89		X ~~ctd~~ put back in water – HPLC #3
11														32.88789
12														

108

Ship: Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
30	67 25.06 N	169 35.26 W	07 SEP 90	23 13	3.5	2.3	25	2	30	206	5.6	9	2	00	53	B03

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6822	6681
Cond.	3077	9123

Times	JD/Time
Data on	2311
at Surface	2309
Start Down	2311
at Bottom	2313
Start Up	2313
at Surface	2316
Data Off	2317

Data Location
Floppy Number 18

Remarks
• MRK has a lot of extra marks at 10m Spag.

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2313	26.11	2.783	32.87				✓	07		
2		20		2313	20.58	2.734	32.86					06		
3		15		2314	14.58	2.730	32.86		B03			05		32.8673
4		10		2314	9.45	2.775	32.86					04		
5		5		2315	4.71	2.786	32.86					03		
6		stc		2316	1.91	2.784	32.86					002		HPLC #4
7														
8														
9														
10														
11														
12														

✓

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
29	67 17.13 N	169 57.11 W	075 EP 90	21 49	3.4	2.2	25	3	30	199	5.8	9	2	8	52	B2a

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32472
Temp.	6878	6700
Cond.	3077	9137

Times	JD/Time
Data on	2148
at Surface	2145
Start Down	2148
25m ~~at Bottom~~	2149
Start Up	2149
at Surface	2157
Data Off	2152

Data Location
Floppy Number 18

Remarks
Extra station
#2 Niskin replaced

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		21:49	26.41	2.747	32.94					001		
2		20		2150	19.81	2.727	32.93		B2a			100		32.94295 (32.94220)
3		15		2150	14.93	2.789	32.92					99		
4		10		2151	9.91	2.874	32.88					98		
5		5		2151	4.81	2.876	32.88					97		
6		Sfc		2152	1.97	2.889	32.88					96		HPLC #4
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
31	67 37.99 N	168 59.31 W	08 SEP 90	01 21	2.9	1.8	24	2	25	235	50	0	2	60	47	B04

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32467	32473
Temp.	6832	6717
Cond.	3077	9135

Times	JD/Time
Data on	0119
at Surface	0117
Start Down	0119
at Bottom	0121
Start Up	0121
at Surface	0126
Data Off	0128

Data Location 15
Floppy Number

Remarks
Full depth - 5m
audio tape ran
on for awhile

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		0121	45.57	3.051	32.85				✓	17		
2		40		0122	40.31	3.041	32.85					16		
3		35		0122	35.07	3.014	32.85					15		
4		30		0123	29.91	2.994	32.85		B04			14		32.855276 (32.85457)
5		25		0124	24.47	2.988	32.85					13		
6		20		0124	17.96	2.984	32.84					12		
7		15		0125	14.95	2.980	32.84					11		
8		10		0125	9.82	2.985	32.84					10		
9		5		0126	4.99	2.986	32.84					9		
10		sfc		0126	2.81	2.991	32.84					8		HPLC #5
11														
12														

✓

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
32	67 50.99 N	168 14.70 W	08 SEP 90	1026	2.5	1.0	24	2	25	28	4.8	35	600		559	1305

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.832	32469.202
Temp.	6581.550	6834.083
Cond.	3081.222	4082.525

Times	JD/Time
Data on	1024
at Surface	1024
Start Down	1024
at Bottom	1026
Start Up	1026
at Surface	1031
Data Off	1034

Data Location: 1024.515
Floppy Number

Remarks: to depth -5

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	50		1026	49.85	2.532	32.633		Bos #1		✓	28		32.63452
2	2	45		1027	45.43	2.524	32.613					27		
3	3	40		1027	40.22	2.513	32.591					26		
4	4	35		1028	34.82	2.510	32.589		Bos #2			25		32.59567
5	5	30		1028	30.17	2.507	32.587					24		
6	6	25		1029	24.77	2.566	32.574					23		
7	7	20		1029	20.19	2.663	32.533					22		
8	8	15		1030	14.94	2.691	32.494					21		
9	9	10		1030	11.33	3.629	32.107					20		
10	10	5		1031	5.22	3.636	32.108					19		
11	11	0		1031	2.15	3.639	32.107					18		HPLC #1
12		\												

500 736 ✓

332K

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
33	68 06.90N	167 36.47W	08 SEP 90	1303	3.6	2.0	2 3 4	25	2 9 1	9 0	9	5	6/8		51	B06

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32465.742 / 32470.125
Temp. SN	1072	Temp.	6810.464 / 7417.253
Cond. SN	748	Cond.	3077.265 / 9380.467

Times	JD/Time
Data on	1301
at Surface	1301
Start Down	1301
at Bottom	1303
Start Up	1303
at Surface	1308
Data Off	1309

Data Location: 1023.1 15
Floppy Number

Remarks: to depth - 5

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	45		1303	45.14	4.840	31.781		B06 #1		✓	38		31.78576
2	2	40		1304	40.69	4.837	31.781					↑		
3	3	35		1304	34.79	4.870	31.782							
4	4	30		1305	30.10	5.391	31.756							
5	5	25		1305	25.18	6.559	31.551							
6	6	20		1306	19.95	7.487	31.183							
7	7	15		1306	14.63	7.590	31.112							
8	8	10		1307	9.58	7.587	31.113		B01 #2					31.11656
9	9	5		1308	3.97	7.584	31.112							
10	10	0		1308	1.74	7.584	31.112					29		HPLC # 2
11														
12														

✓

180224
358,912

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
34	68 18.24 N	167 03.16 W	08 SEP 90	1518	3.8	2.7	22	5	20	279	12	9	5	06	38	B07

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466.503	32470.617
Temp.	6931-7001	75855
Cond.	3077.167	9296.871

Times	JD/Time
Data on	1516
at Surface	1516
Start Down	1516
at Bottom	1518
Start Up	1518
at Surface	1522
Data Off	1524

Data Location: 1088.3 12 10.0
Floppy Number

Remarks: East end of line B to d-5

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	35		1518	33.89	9.736	29.759				✓	46		
2	2	30		1518	29.52	9.732	29.737		B07 #1			41		29.73879
3	3	25		1519	24.03	9.745	29.729							
4	4	20		1519	19.87	9.799	29.685							
5	5	15		1520	15.27	9.556	29.376							
6	6	10		1521	9.30	9.478	29.313							
7	7	5		1521	6.21	9.401	29.231		B07 #2					29.19244
8	8	0		1522	1.96	9.349	29.177					39		HPLC #7
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
35	69 01.73 N	166 56.51 W	08 SEP 90	21 34	3.8	2.5	21	3	30	310	8.0	8	5	%	50	C10

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32467	32474
Temp.	7138	7666
Cond.	3223	9428

Times	JD/Time
Data on	2137
at Surface	2130
Start Down	2132
at Bottom	2134
Start Up	2134
at Surface	2138
Data Off	2140

Data Location 18
Floppy Number

Remarks: pump station (anchor)

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		40			39.50	7.289	31.38		C10 #1		✓	55		31.34010
2		35			36.06	7.692	31.27					54		
3		30			29.73	8.195	30.95					53		
4		25			25.43	9.115	29.54					52		
5		20			19.77	9.131	29.54					51		
6		15			14.99	9.121	29.54					50		
7		10			9.55	9.113	29.53		C10 #2			49		29.53659
8		5			4.52	9.114	29.53		C			48		
9		sfc			2.16	9.114	29.53					47		HPLC #8
10														
11														
12														

✓

Ship: Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
36	69 04.08	167 54.73	09 SEP 90	02 38	4.0	2.6	21	3	30	287	7.0	7	2	78	47	C09

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32467	32475
Temp.	7043	7345
Cond.	3077	9438

Times	JD/Time
Data on	0236
at Surface	0234
Start Down	0236
at Bottom	0238
Start Up	0238
at Surface	0243
Data Off	0243

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		43			42.77	4.831	31.906					64		
2		40			39.32	4.839	31.901					63		
3		35			34.00	5.689	31.674					62		
4		30			30.16	5.709	31.671					61		
5		25			24.70	5.867	31.649					60		
6		20			17.53	6.808	31.449					59		
7		15			14.84	7.138	31.349					58		
8		10			10.00	7.178	31.345					57		
9		5			3.82	7.177	31.345					56		
10		stc			—									
11														
12														

Ship: Professor Khromov

CHOEX-90/ ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
37	69 01.83 N	168 53.99 W	09 SEP 90	0556	3.0	2.0	20	3	30	286	7.6	6	2	8	54	C08

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6893	7183
Cond.	3178	9359

Times	JD/Time
Data on	0553
at Surface	0551
Start Down	0553
at Bottom	0556
Start Up	0556
at Surface	0602
Data Off	0603

Data Location Floppy Number 18

Remarks: High Vop Seal

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond.~~ Sal	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		0556	47.03	3.355	32.60				✓	74		
2		40		0556	39.98	3.376	32.59		C08 #1			73		32.59636
3		35		0557	34.26	3.388	32.58					72		
4		30		0558	29.37	3.191	32.54					71		
5		25		0558	24.77	3.066	32.46					70		
6		20		0559	17.63	6.018	31.68					69		
7		15		0559	14.71	6.072	31.68					68		
8		10		0600	9.56	6.087	31.67		C08 #2			67		31.69156 (31.69525)
9		5		0601	3.45	6.089	31.67					66		
10		Sfc		0602	3.01	6.088	31.67					65		HPLC
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
38	68 56.93	169 46.78	09 SEP 90	1039	2.4	1.5	1019.1	3	25	299	6.3	9	5	6/8	54 58	C07

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.785	32469.567
Temp.	6693.632	6889.097
Cond.	3082.980	9197-9139

Times	JD/Time
Data on	1038
at Surface	1038
Start Down	1038
at Bottom	1039
Start Up	1037
at Surface	1042
Data Off	1044

Data Location: 15
Floppy Number:

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1039	24.95	3.097	32.310					85		
2		20		1040	20.27	3.072	32.265					84		
3		15		1040	14.59	4.237	32.112					78		
4		10		1041	9.62	4.251	32.100		C07 #1			83		32.10522
5		5		1041	4.79	4.254	32.100					82		
6		0		1042	2.08	4.252	32.100					81		HPLC #3
7														
8														
9														
10														
11														
12														

Якорь

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
39	68 48.87	170 43.68	09 SEP 90	13 16	1.9	0.8	1019	3	25	279	63	9	5	6	50	C06

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32466.525	32470.805
Temp.	6946.683	6773.373
Cond.	9357.605	9189.828

Times	JD/Time
Data on	1315
at Surface	1315
Start Down	1315
at Bottom	1316
Start Up	1316
at Surface	1319
Data Off	1320

Data Location: 1018.6 15

Floppy Number

Remarks: 25 m

Pumping

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1316	24.79	3.504	33.004				✓	91		
2		20		1317	20.15	3.506	33.004		C06 #1			90		33.00548
3		15		1318	14.75	3.511	33.003					89		
4		10		1318	10.19	3.508	33.003					88		
5		5		1319	4.90	3.506	33.003					87		
6		0		1319	2.04	3.510	33.003					86		HPLC #4
7														
8														
9														
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE -90

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Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
40	68 39.88	171 37.02	09 SEP 90	1810	1.9	0.4	1012.0 12	3	20	303	68	9	5	6 8	56	C05

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.644	
Temp.	61671.187	
Cond.	3347.332	

Times	JD/Time
Data on	1809
at Surface	1809
Start Down	1809
at Bottom	1810
Start Up	1810
at Surface	1812
Data Off	1815

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1810	24.41	2.300	32.666					97		
2		20		1810	20.34	2.406	32.669					96		
3		15		1811	15.11	2.420	32.669		C05 #1			95		32.67524
4		10		1811	9.37	2.426	32.670					94		
5		5		1812	5.61	2.430	32.670					93		
6		0		1812	3.09	2.431	32.669					92		HPCC 5
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE -90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
41	68 29.75	172 30.65	09 SEP 90	20 49	2.6	1.3	172	2	25	290	4.6	9	5	6	55	C04

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32465	32471
Temp.	6954	6843
Cond.	9366	9211

Times	JD/Time
Data on	2047
at Surface	2045
Start Down	2047
at Bottom	2049
Start Up	2049
at Surface	2052
Data Off	2053

Data Location: 15
Floppy Number

Remarks: 2hr pump stn
25m restriction

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2049	25.62	3.938	32.53				✓	3		
2		20		2049	19.96	3.959	32.51					2		
3		15		2050	14.71	3.917	32.50					1		
4		10		2050	9.44	3.857	32.47		C04		100	100		32.47358
5		5		2051	4.85	8.856	32.47				99	99		
6		Stc		2051	2.13	3.859	32.47				98	98		HAC 6
7														
8														
9														
10														
11														
12														

12

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
42	68 19.71	173 20.99	10 SEP 90	01 28	2.2	0.9	16	3	30	21	6.0	7	2	60	50	C03

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32469 / 32474
Temp. SN	1072	Temp.	7338 / 6880
Cond. SN	748	Cond.	9626 / 9221

Times	JD/Time
Data on	0127
at Surface	0125
Start Down	0127
25 ~~at Bottom~~	0128
Start Up	0128
at Surface	0132
Data Off	0132

Data Location
Floppy Number

Remarks
25 m restriction

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0128	25.30	3.769	32.60				✓	9		
2		20		0130	20.18	3.701	32.57					8		
3		15		0131	14.64	3.704	32.55		C03			7		32.55280
4		10		0131	9.95	3.713	32.53					6		
5		5		0132	4.79	4.068	32.40					5		
6		sfc		0132	3.35	4.080	32.40					4		HPLC 7
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
43	68 13.45	173 39.67	10 SEP 90	02 49	2.9	1.7	153	3	3/5	225	6.0	22	7		50	C22

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32467	32422
Temp.	7211	6925
Cond.	9534	9292

Times	JD/Time
Data on	0247
at Surface	0245
Start Down	0247
at Bottom	0249
Start Up	0249
at Surface	0252
Data Off	0252

Data Location: Floppy Number 21

Remarks: 25m restriction str added to "C" line

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0249	26.26	4.243	32.71				✓	15		
2		20		0250	19.79	4.250	32.71					14		
3		15		0250	14.41	4.266	32.71		C2a			13		32.71557
4		10		0251	10.10	4.347	32.70					12		
5		5		0251	5.19	4.356	32.70					11		
6		sfc		0252	3.46	4.363	32.70					10		HPLC 8
7														
8														
9														
10														
11														
12														

✓

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	44 68.06.97	174 01.24	10 SEP 90	04 17	3.0	2.0	15	3	3/5	199	6-2	0	0	0	50	CO2

CTD Type & SN	SEABIRD
Press. SN	41601
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32467	32473
Temp.	7166	6977
Cond.	9502	9345

Times	JD/Time
Data on	0416
at Surface	0414
Start Down	0416
at Bottom	0417
Start Up	0417
at Surface	0420
Data Off	0421

Data Location
Floppy Number

Remarks
25m
retention

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25			25.76	3.924	32.69				✓	21		
2		20			19.65	4.047	32.68					20		
3		15			14.87	4.431	32.67					19		
4		10			10.09	4.568	32.67		CO2			18		32.67153
5		5			5.00	4.585	32.66					17		
6		sfc			3.29	4.585	32.66					16		HPLC 1
7														
8														
9														
10														
11														
12														

✓

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Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg.	Latitude Min.	Longitude Deg.	Longitude Min.	Date JD = Day	Mo.	Yr.	Time, GMT Hr.	Time, GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	45	67.00.05	174	22.28	105	EP	90	05	50	3.8	2.9	15	1	35	176	3.1	1	0	00	48	C1a

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32467	32473
Temp.	7176	6837
Cond.	9509	9230

Times	JD/Time
Data on	0549
at Surface	0547
Start Down	0549
at Bottom	0550
Start Up	0550
at Surface	0553
Data Off	0555

Data Location
Floppy Number

Remarks: added stn.

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25			26.24	3.680	32.717				✓	27		
2		20			19.64	3.696	32.68					26		
3		15			15.17	3.709	32.67		C1a			25		3267738
4		10			10.31	3.811	32.65					24		
		5			5.15	3.825	32.65					23		
6		ste			2.63	3.823	32.65					22		HPLC 2
7														
8														
9														
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
46	67 52.16N	174 45.10W	10 SEP 90	07 22	3.7	3.2	15	2	35	165	4.7	10			43	C01

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32467.347	32471.601
Temp.	6946.203	6849.095
Cond.	3163.503	9217

Times	JD/Time
Data on	0720
at Surface	0721
Start Down	07
at Bottom	0722
Start Up	0722
at Surface	0725
Data Off	0727

Data Location

Floppy Number

Remarks: 25m High-Volume pumping

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	1	25		0722	25.55	0.664	33.217				✓	33		
2	2	20		0723	20.01	2.284	32.774					32		
3	3	15		0723	14.68	3.843	32.471					31		
4	4	10		0724	9.81	3.869	32.471					30		
5	5	5		0724	5.44	3.870	32.471		CD1 #1			29		32.47923
6	6	0		0725	3.47	3.873	32.472					28		HPLC #3
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
47	68 53.54 N	178 20.38 W	10 SEP 90	19 45	4.8	4.0	1010	1	3/5	290	2.5	4	3	21/6	40	D01

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32466	32471
Temp.	7208	6929
Cond.	9533	9.76

Times	JD/Time
Data on	1944
at Surface	1942
Start Down	1944
at Bottom	1945
Start Up	1945
at Surface	1948
Data Off	1949

Data Location
Floppy Number

Remarks
25m restriction
communication error - cast to 30

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		30		1945	29.25	0.965	33.16				✓	40		
2		25		1946	25.04	1.029	33.02					39		
3		20		1946	20.33	1.859	32.51					38		
4		15		1947	15.05	4.361	31.88		D01			37		? 32.06449? (entry says D07, but no #4 → 15m there)
5		10		1947	10.06	4.549	31.91					36		
6		5		1948	4.89	4.569	31.86					35		
7		Sfc		1948	1.59	4.478	31.79					34		HPLC ✓
8														
9														
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
48	69 60.88 N	177 58.69 W	10 SEP 90	21 17	4.1	3.4	1 0 2	3/5	2	9 3	4.9	5	3	2/8	53	D1a

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32468	32474
Temp.	7264	6870
Cond.	3115	9152

Times	JD/Time
Data on	2116
at Surface	2114
Start Down	2116
at Bottom	2117
Start Up	2117
at Surface	2120
Data Off	2121

Data Location
Floppy Number

Remarks
stn. added
. MRK file empty !?
RESET hit on deck unit before CTRL-F1,

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25			25.21	3.171	32.46				✓	46		
2		20			20.16	3.236	32.38					45		
3		15			15.12	3.379	32.30					44		
4		10			10.08	3.741	32.06					43		
5		5			5.04	4.009	31.84		Dia			42		APLC #5 31.85868
6		Sfc			3.035	4.039	31.84					41		
7														
8														
9														
10														
11														
12														

Comments: data from IMA file

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
49	69 08.11 N	177 36.89 W	10 SEP 90	22 43	4.1	3.5	1010	1	3/8	296	20	8	3	2/00	54	D02

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32468	32473
Temp.	72159	6994
Cond.	3115	9335

Times	JD/Time
Data on	2242
at Surface	2240
Start Down	2242
at Bottom	2243
Start Up	2243
at Surface	2246
Data Off	2247

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		22.43	25.53	4.719	31.66				✓	52		
2		20		2244	19.88	4.733	31.66					51		
3		15		2244	14.84	4.729	31.65		D02			50		31.65699
4		10		2245	9.99	4.737	31.65					49		
5		5		2245	4.82	4.774	31.65					48		
6		sfc		2246	1.62	4.878	31.65					47		HPLC #6
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
50	69 14.04	177 09.88	11 SEP 90	0008	4.1	3.4	1010	1	2/5	298	2.0	9	2	6/8	54	D2a

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32468	32472
Temp.	7086	7043
Cond.	3568	4257

Times	JD/Time
Data on	0006
at Surface	0004
Start Down	0006
at Bottom	0008
Start Up	0008
at Surface	0011
Data Off	0012

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0008	25.79	4.862	31.71				✓	58		
2		20		0008	19.98	4.784	31.67					57		
3		15		0009	15.20	4.958	31.66		D2a			56		31.66456
4		10		0009	10.01	5.016	31.66					55		
5		5		0010	5.07	5.036	31.66					54		
6		sfc		0011	2.95	5.068	31.66					53		HPLC #7
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
51	69 19.68 N	176 46.33 W	11 SEP 90	01 27	4.6	3.9	10	1	3	298	21	9	2	6	53	D03

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	3268	32472
Temp.	7152	7119
Cond.	3105	9307

Times	JD/Time
Data on	0126
at Surface	0124
Start Down	0126
at Bottom	0127
Start Up	0127
at Surface	0129
Data Off	0130

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25			25.88	5.520	31.59				✓	64		
2		20			19.93	5.522	31.59					63		
3		15			15.09	5.526	31.59		D03			62		31.60420
4		10			10.12	5.541	31.59					61		
5		5			5.23	5.565	31.59					60		
6		sfc			2.59	5.664	31.59					59		HPLC #8
7														
8														
9														
10														
11														
12														

prob. 175 yup

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
52	69 32.76	176 59.49	115 SEP 90	03 54	5.1	3.7	092	2	3/8	252	4.2	7	3	21	55	D04

CTD Type & SN SEABIRD

Press. SN 41681

Temp. SN 1072

Cond. SN 748

Monitor Checks

	on Deck:	at Surface:
Press.	32469	32473
Temp.	7370	7074
Cond.	3099	9299

Times	JD/Time
Data on	0353
at Surface	0351
Start Down	0353
at Bottom	0354
Start Up	0354
at Surface	0357
Data Off	0358

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0354	25.93	5.083	31.94				✓			
2		20		0354	19.81	5.151	31.84							
3		15		0355	15.26	5.304	31.79		D04					31.80534
4		10		0356	10.13	5.344	31.79							
5		5		0356	5.03	5.363	31.79							
6		sfc		0357	3.18	5.363	31.79							HPLC
7														
8														
9														
10														
11														
12														

✓

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
53	69 45.83 N	175 04.89 W	11 SEP 90	06 31	5.0	4.1	1010	3	30	271	70	9	9	21 00	55	005

CTD Type & SN	SEABIRD	Monitor Checks on Deck:		at Surface:	Times	JD/Time	Data Location Floppy Number	Remarks
Press. SN	41681	Press.	32468	32473	Data on	0627		
Temp. SN	1072	Temp.	7172	7103	at Surface	0625		
Cond. SN	748	Cond.	3077	9296	Start Down	0627		
					at Bottom	0630		
					Start Up	0630		
					at Surface	0633		
					Data Off	0634		

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0630	25.82	5.457	31.62							
2		20		0631	19.92	5.461	31.62							
3		15		0631	15.10	5.482	31.61		✓					31.61986
4		10		0632	10.43	5.539	31.61							
5		5		0632	4.88	5.544	31.61							
6		Sfc		0633	2.75	5.542	31.61							
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
54	69 56.99	174 17.99	11 SEP 90	20 20	1.3	0.4	10	2	15	279	5.2	8	3	4/8	57	D06

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464	32469
Temp.	6820	7014
Cond.	9247	9223

Times	JD/Time
Data on	2019
at Surface	2017
Start Down	2019
at Bottom	2020
Start Up	2020
at Surface	2023
Data Off	2024

Data Location
Floppy Number

Remarks
pump on

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2020	25.97	3.035	32.17				✓	82		
2		20		2021	19.85	3.948	31.98					81		
3		15		2021	14.99	4.926	31.57		D06			80		31.55725
4		10		2022	10.10	4.971	31.55					79		
5		5		2022	4.79	4.985	31.55					78		
6		sfc		2023	1.60	4.987	31.55					77		HPLC 3
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
55	70 10.09 N	173 21.98 W	11 SEP 90	2255	0.8	-0.8	094	4	5	265	9.8	8	3	4	50	D07

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466	32471
Temp.	6952	7107
Cond.	9348	9296

Times	JD/Time
Data on	2254
at Surface	2252
Start Down	2254
at Bottom	2255
Start Up	2255
at Surface	2258
Data Off	2259

Data Location
Floppy Number

Remarks
#5 bottle broken
not replaced

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	x	25		2255	25.63	4.163	32.17				✓	88		
2	x	20		2255	19.86	5.395	31.70					87		
3	x	15		2256	14.82	5.458	31.66					86		
4	x	10		2257	10.26	5.491	31.65		D07			85		31.64658
5	—			—	—	—	—							
6	x	5		2257	5.07	5.520	31.63					84		
7	x	5c		2257	—	—	—							
8	x	stc		2258	1.94	5.492	31.65					83		HPLC 4
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
56	70 20.61 N	172 28.43 N	12 SEP 90	0123	1.0	0.1	08	3	5	260	9.6	8	9	4	39	D08

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6965	6786
Cond.	9320	9139

Times	JD/Time
Data on	0122
at Surface	0120
Start Down	0122
~~at Bottom~~ 25	0123
Start Up	0123
at Surface	0125
Data Off	0127

Data Location
Floppy Number

Remarks
#5 Niskin replaced

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0123	27.14	3.023	32.22					94		
2		20		0123	19.70	2.977	32.19					93		
3		15		0124	14.54	3.011	32.14		D08			92		32.09181
4		10		0124	9.63	3.525	31.97					91		
5		5		0125	5.52	3.542	31.96					90		
6		sfc		0125	2.97	3.544	31.96					89		HPLC 5
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
57	70 33.03 N	171 38.28 W	125 E 90	03 55	1.3	0.2	04	5	20	249	13	6	5	6/8	36	D09

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6813	6960
Cond.	9205	9157

Times	JD/Time
Data on	0354
at Surface	0352
Start Down	0354
at Bottom	0355
Start Up	0355
at Surface	0357
Data Off	0358

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0355	26.48	3.975	31.72					100		
2		20		0355	20.35	3.461	32.01					99		
3		15		0356	15.02	4.385	31.62		D09			98		31.65511
4		10		0356	10.51	4.423	31.64					97		
5		5		0357	5.83	4.426	31.66					96		
6		sfc		0357	2.47	4.426	31.66					95		HPLC 6
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
58	70 30.49N	170 29.19W	12 SEP 90	0838	2.1	1.2	976	6	20	240	16	10	5	60	29	J1

996.8 16.1

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32463.882	32470.136
Temp. (on pump)	6687.082	6890.390
Cond. (on pump)	9111.089	9157.173

Times	JD/Time
Data on	0837
at Surface	0837
Start Down	0837
at Bottom	0838
Start Up	0838
at Surface	0840
Data Off	0842

Data Location Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0838	23.14	3.278	32.021					6		
2		20		0838	21.15	4.127	31.773					5		
3		15		0839	14.86	4.157	31.764		J01 #1			4		31.75590 / 31.75611
4		10		0839	9.13	4.154	31.765					3		
5		5		0840	6.40	4.152	31.766					2		
6		0		0840	1.26	4.148	31.767					1		HPLC # 7
7														
8														
9														
10														
11														
12														

793

Ship: Профессор Хромов / Professor Khromov — CITOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
59	70 36.22 N	169 23.86 W	12 SEP 90	11 07	2.4	1.8	993.4 93 6	12	2	3 4	13.7 14	10	9	4/8	38	52

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32464.230 / 32469
Temp. SN	1072	Temp. (on pump)	10678 / ~~6.9666~~ 7
Cond. SN	748	Cond.	9103 / 91261.820

Times	JD/Time
Data on	1106
at Surface	1106
Start Down	1106
at Bottom	1107
Start Up	1107
at Surface	1110
Data Off	1112

Data Location / Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1107	24.12	2.611	32.198							
2		20		1107	20.76	3.842	31.737							bottle was leaker / swapped out
3		15		1108	18.36	4.002	31.654							
4		10		1109	11.33	4.001	31.658		502 Ft1					31.65270 / 31.65317
5		5		1109	4.41	4.003	31.657							
6		0		1110	1.22	3.955	31.663							HPLC 8
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
60	70 38.37N	168 24.91W	12 SEP 90	1322											41	503

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press. 32565	32470.417
Temp. SN	1072	Temp. 6691	6819.519
Cond. SN	748	Cond. 3156	9.27.6

Times	JD/Time
Data on	1321
at Surface	1321
Start Down	1321
at Bottom	1322
Start Up	1322
at Surface	1326
Data Off	1328

Data Location Floppy Number

Remarks: U.S. – to depth -5

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		35		1322	35.98	2.337	32.113		J03 #1		✓	20		32.10211
2		30		1323	31.23	2.382	32.107					19		
3		25		1323	26.37	3.934	31.678					18		
4		20		1324	19.90	3.969	31.672					17		
5		15		1325	14.86	3.997	31.672		J03 #2			16		31.66468
6		10		1325	9.78	4.008	31.671					15		
7		5		1326	5.63	3.995	31.670					14		
8		0		1326	0.81	3.989	31.671					13		Drop in air? HPLC 9
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

51

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
61	70 49.87 N	167 20.18 W	125 SEP 90	1551	2.8	2.4	990.2	6	15	236	15.2	9	3	0-5	55	J04

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.4	32470
Temp.	6720	7124
Cond.	3215	9206

Times	JD/Time
Data on	1548
at Surface	1548
Start Down	1548
at Bottom	1551
Start Up	1551
at Surface	1557
Data Off	1559

Data Location
Floppy Number

Remarks: US - to depth
Rough seas

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		50		1551	51.66	3.604	32.020		J04 #1		✓	31		32.01580
2		45		1551	47.15	3.895	31.965							
3		40		1552	40.69	4.246	31.882							
4		35		1553	34.43	4.566	31.821							
5		30		1553	30.71	4.679	31.779							
6		25		1554	23.99	4.929	31.699							
7		20		1555	19.82	5.177	31.679							
8		15		1555	14.30	5.724	31.126							
9		10		1556	8.14	5.740	31.103		J04 #2					31.09188
10		5		1556	5.10	5.738	31.107							
11		0		1557	1.90	5.739	31.108					21		
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
62	70 33.87	166 14.94	12 SEP 90	19 11	3.6	2.8	87	6	20	229	14	10	3	4	44	J05

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41687	Press.	32464 / 32472
Temp. SN	1072	Temp.	6783 / 7267
Cond. SN	748	Cond.	9169 / 9290

Times	JD/Time
Data on	1909
at Surface	1907
Start Down	1909
at Bottom	1911
Start Up	1911
at Surface	1915
Data Off	1916

Data Location Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		40		1911	39.79	5.270	31.61				✓			
2		35		1911	36.21	6.68	30.54							
3		30		1912	31.05	6.699	30.62		J05					30.61372
4		25		1912	22.19	6.708	30.62							
5		20		1913	22.57	6.708	30.62							
6		15		1913	15.37	6.71	30.62							
7		10		1914	8.08	6.707	30.62							
8		5		1914	5.01	6.703	30.62							
9		sfc		1915	1.96	6.702	30.62							HPLC
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CTOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
63	70 28.74	165 13.38	12 SEP 90	21 37	4.1	3.3	87	6	5	223	15	10	9	4/10	46	J06

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466	32473
Temp.	7009	7274
Cond.	3160	9284

Times	JD/Time
Data on	2135
at Surface	2133
Start Down	2135
at Bottom	2137
Start Up	2137
at Surface	2141
Data Off	2142

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		40			41.21	4.76	31.52		J06 #2		✓			31.49878
2		35			35.47	6.65	30.66							
3		30			31.54	6.7	30.65							
4		25			25.20	6.71	30.65							
5		20			18.33	6.71	30.65							
6		15			16.86	6.71	30.65		J06 #1					30.64066 / 30.64093
7		10			11.47	6.72	30.65							
8		5			5.99	6.72	30.65							
9		sfc			2.79	6.72	30.65							HPLC
10														
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
64	70 18.59	164 19.29	135 SEP 90	00 04	4.3	3.4	87	6	5	229	14	9	9	4/8	43	507

CTD Type & SN	SEABIRD		
Press. SN	41681	Press.	32466 / 32474
Temp. SN	1072	Temp.	7001 / 7203
Cond. SN	748	Cond.	9121 / 9252

Monitor Checks: on Deck / at Surface

Times	JD/Time
Data on	0002
at Surface	0000
Start Down	0002
at Bottom	0004
Start Up	0004
at Surface	0008
Data Off	0009

Data Location: Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond.~~ Sal	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		40		0004	38.32	6.102	30.75							
2		35		0004	36.08	6.144	30.68							
3		30		0005	29.99	6.166	30.66							
4		25		0005	25.02	6.165	30.66							
5		20		0006	20.73	6.158	30.66							
6		15		0007	14.53	6.151	30.66							30.65640/30.65668
7		10		0007	11.69	6.147	30.66							
8		5		0008	4.72	6.143	30.66							
9	X	st	no sample		2.57	6.142	30.66							
10														
11														
12														

454144

Ship: Профессор Хромов / Professor Khromov

CHDEX-90/ICE-90

bottom trip switch went off at 25m → 30

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
65	70 07.79	163 45.60	135 EP 90	0508	4.0	2.6	987.0	2	15	211	3.6	10	27	712	35	J08

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press. 32464.839	32469.7
Temp. SN	1072	Temp. 6883.716	7325.
Cond. SN	748	Cond. 3096.890	9310

Times	JD/Time
Data on	0807
at Surface	0807
Start Down	0807
at Bottom	0808
Start Up	0808
at Surface	0811
Data Off	0813

Data Location Floppy Number

Remarks: U.S.? 2-hr. pump, sed, plank

Water murky after storm

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0808	25.46	7.206	30.251				✓	64		
2		20		0808	19.26	7.225	30.243		J08 #1					30.23686
3		15		0809	14.20	7.229	30.241							
4		10		0810	8.99	7.238	30.234							
5		5		0810	4.01	7.239	30.228							
6		0		0811	1.44	7.239	30.227					59		
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
66	71 03.34	159 39.90	13 SEP 90	1942	3.4	2.1	90	3	15	185	5.9	6	5	6	74	K01

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32464	32470
Temp.	7041	6845
Cond.	9078	8974

Times	JD/Time
Data on	1938
at Surface	1936
Start Down	1938
at Bottom	1942
Start Up	1942
at Surface	1949
Data Off	1950

Data Location
Floppy Number

Remarks
audiotape
ranout
3min 28sec
No stc sample
data from MRK file

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		70		1942	71.16	1.232	31.87				✓	74		
2		60		1943	60.65	1.234	31.87		K01 #1			73		31.86099
3		50		1944	50.32	1.234	31.87					72		
4		40		1945	40.51	1.239	31.87					71		
5		30		1945	30.87	4.100	30.52					70		
6		25		1946	24.25	3.882	30.49					69		
7		20		1947	20.34	3.881	30.48					68		
8		15		1947	15.08	8.89	30.48					67		
9		10		1948	10.12	3.89	30.48		K01 #2			66		30.47662
10		5		1948	4.84	3.893	30.48					65		HPLC
11		stc	did not	1949	2.20	3.897	30.48					64		
12			trigger											✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
67	71 18.78	160 13.02	13 SEP 90	22 19	3.6	2.8	902	2%	17	1	4.6	1/0	5	6%	57	K02

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32466	32471
Temp.	6970	6723
Cond.	3109	8907

Times	JD/Time
Data on	2217
at Surface	2215
Start Down	2217
at Bottom	2219
Start Up	2219
at Surface	2224
Data Off	2225

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		2219	44.43	-1.015	32.896				✓	84		
2		40		2220	40.59	-1.016	32.896					83		
3		35		2220	35.76	-1.015	32.896		K02 #1			82		32.89192
4		30		2221	29.28	-1.015	32.896					81		
5		25		2222	24.33	-0.986	32.881					80		
6		20		2222	20.15	3.022	30.711					79		
7		15		2223	14.47	3.034	30.684		K02 #2			78		30.66975
8		10		2223	9.55	3.049	30.678					77		
9		5		2224	4.62	3.058	30.677					76		
10		sfc		2224	1.93	3.058	30.678					75		HPLC
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90 nls

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
68	71 36.05	160 41.72	14 SEP 90	00 49	3.8	3.0	91	2	30	187	30	8	6	30	571	K03

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32467 / 32472
Temp. SN	1072	Temp.	6884 / 6643
Cond. SN	748	Cond.	3098 / 8841

Times	JD/Time
Data on	0047
at Surface	0045
Start Down	0047
at Bottom	0049
Start Up	0049
at Surface	0054
Data Off	0055

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		0049	44.67	-1.054	32.99							
2		40		0050	40.33	-1.033	32.99		K03 #1					32.98318
3		35		0050	34.96	-1.022	32.99							
4		30		0051	29.31	-1.015	32.99							
5		25		0051	25.10	-0.677	32.93							
6		20		0052	20.84	1.518	32.14							
7		15		0053	14.29	2.505	30.63							
8		10		0053	10.33	2.516	30.63		K03 #2					30.62082
9		5		0054	4.77	2.52	30.63							
10		Ste		0054	2.49	2.520	30.62							
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
69	71 53.01	161 14.98	14 SEP 90	0334	2.6	1.8	912	2	2	150	50	9	5	8	41	K04

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	3246	3247
Temp.	6769	6479
Cond.	3090	8600

Times	JD/Time
Data on	0329
at Surface	0327
Start Down	0329
at Bottom	0330
Start Up	0330
at Surface	0334
Data Off	0335

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		35		0330	34.90	-1.122	33.02				✓			
2		30		0331	30.22	-1.166	33.0		K04 #1					32.99366 / 32.99313
3		25		0331	25.43	-1.287	32.75							HPLC 5
4		20		0332	19.31	-1.015	32.36							HPLC 4
5		15		0333	14.67	1.821	30.62							HPLC 3
6		10		0333	10.19	1.352	29.61		K04 #2					HPLC 2 29.~~69503~~ 63098 CHECK#
7		5		0334	5.29	1.368	29.61							
8		Sfc		0334	3.00	1.368	29.61							
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
70	72 09.48	161 48.56	14 SEP 90	05 57	1.8	1.3	92	2	20	170	48	9	2	50	32	K05

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks

	on Deck:	at Surface:
Press.	32465	32470
Temp.	6589	6676
Cond.	3192	8700

Times	JD/Time
Data on	0556
at Surface	0554
Start Down	0556
at Bottom	0557
Start Up	0557
at Surface	0600
Data Off	0602

Data Location
Floppy Number

Remarks
5 bottles only
rosette didn't advance past #5 prob. jam
data from MKK file

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		30		0557	30.10	-0.991	33.053		K05 #1		✓	9		33.04597
2		25		0558	24.14	-0.946	32.789					8		
3		20		0558	20.36	-1.235	32.512					7		
4		15		0559	15.25	2.729	29.219					6		
5		10		0559	9.83	2.733	29.210		K05 #2			5		HPLC #6. 29.20103
6	X	5	no sample		5.02									
7	X	Sfc	no sample											
8														
9														
10														
11														
12														

Comments: Tested rosette — probably jammed on lanyard since not working ok.

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

41

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
71	72 27.22 N	162 23.31 W	14 SEP 90	08 36	2.6	1.9	993	3	20	174	6.8	10	5	6	45	K06

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466.312	32469 – 32478
Temp. (on pump)	7045.464	6838.318
Cond. (on pump)	9081.675	8982 – 8985

Times	JD/Time
Data on	0834
at Surface	0834
Start Down	0834
at Bottom	0836
Start Up	0836
at Surface	0840
Data Off	0842

Data Location: 992.8

Floppy Number

Remarks: help switch at 35m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		35		0836	35.80	-.948	32.892				✓	17		
2		30		0837	30.21	-.880	32.762		K06 #1			↑		32.75442
3		25		0837	24.80	-.370	32.686							
4		20		0838	20.26	3.888	30.709							
5		15		0839	13.61	3.815	30.698							
6		10		0839	10.39	3.812	30.697		K06 #2					HPLC #8 30.69015
7		5		0840	4.46	3.812	30.698							
8		0		0840	0.99	3.810	30.698					10		HPLC #7
9														
10														
11														
12														✓

Ship: Профессор хромов / Professor Khromov — CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg.	Latitude Min.	Longitude Deg.	Longitude Min.	Date JD = Day	Mo.	Yr.	Time, GMT Hr.	Time, GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
72	72	55.18	162	57.29	14	SEP	90														K07

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32464.785 / 32468.5
Temp. SN	1072	on pump: Temp.	6938.7 / 6813.9
Cond. SN	748	Cond.	9006.16 / 8572.5

Times	JD/Time
Data on	1055
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number

Remarks: Sed. Sample

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														No trips
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

(27) 35

56

Ship: Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	7244.71	16255.69	14 SEP 90													K07A

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.7	32467
Temp.	6683.3	6806
Cond.	3189.0	2967

Times	JD/Time
Data on	1114
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1														No bottles tripped
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

K07B

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
72	7245.83	16251.71	145 EP 90	1215	3.1	2.1	933	25	16	57	1	1	5	00	60	

did not advance Cast #

CTD Type & SN: SEABIRD

Press. SN:

Temp. SN:

Cond. SN:

Monitor Checks on Deck: at Surface:

Press.

Temp.

Cond.

Times	JD/Time
Data on	1214
at Surface	1214
Start Down	1214
at Bottom	1215
Start Up	1215
at Surface	1221
Data Off	1223

Data Location Floppy Number

Remarks: 3rd try / new Rosette control box

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		55			55.19	-1.122	33.001				✓	27		
2		50			50.68	-1.123	33.000		K07B #1			27		32.99437
3		40			39.80	-1.124	32.001					9		
4	?	35			34.11	-1.193	32.950					1		No confirm of firing on bottle 4 &
5		30			29.80	-1.085	32.760					4		did not close. Suspect ≥4 shifted
6		25			25.68	-0.414	32.300					7		by 1 bottle. (Seiner sample at 3.5m /
7		20			20.07	3.583	30.656					21		bottle 4 at 30, etc.)
8		15			14.30	3.576	30.637					21		
9		10			10.41	3.119	30.185		K07B #2			19		Sal from bottle #9, suspected to be mark #10
10		5			5.18	3.118	30.179					18		30.16926
11		0			1.82	3.114	30.178					18		HPLC #1 Can't confirm
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
73	73 01.33	163 32.38	14 SEP 90	1452	2.2	1.3	994	2	25	172	50	25	%		994	K08

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465.855	32469.660
Temp. (pump on)	6846	6492.838
Cond.	8939	8504.648

Times	JD/Time
Data on	1448
at Surface	1448
Start Down	1448
at Bottom	1452
Start Up	1452
at Surface	1501
Data Off	1502

Data Location: 994.1

Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		85		1452	86.23	-1.070	33.793				✓	35		↔ false #5 ? OR puddle ?
2		75		1453	75.36	-1.550	33.258		K08 #1			↑		only one good depth for Sal 33.25583/33.25586
3		60		1454	60.12	-1.550	33.067							
4		50		1455	49.47	-1.639	32.662							
5		40		1456	40.59	-1.508	32.366							
6		30		1457	30.88	-1.192	32.084							
7		20		1458	20.17	2.686	29.394							bucket sample
8		15		1459	14.22	2.216	29.103					28		→ HPLC # 2 checked ☑ TW 9/15
9		10		1500	10.65	1.553	28.717							9, 10, 11 did not trip
10		5		1500	5.80	1.284	28.634							
11		0		1501	2.25	1.291	28.635							
12														

25 m no SD 3x

0 5 10 15 20 25 30 40 50 60 70 80 90

turned off /m: may have fried 4?

New deck unit 5? 6 –

TRIP

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE -90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
74	73 18.00	164 08.22	14 SEP 90	1729	1.8	1.2	955	2	25	116	3.8	6	5	60	79	K09

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32463.628 / 32467.3
Temp. SN	1072	Temp. (just after pump off)	6655.324 / 6494.5
Cond. SN	748	Cond.	31665 / 8546.203

Times	JD/Time
Data on	1725
at Surface	1725
Start Down	1725
at Bottom	1729
Start Up	1729
at Surface	1740
Data Off	1743

Data Location: 955.3
Floppy Number
Remarks: 36

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		70		1729	70.58	-1.437	33.242		K09 #1			45		33.23048
2		60		1730	60.12	-1.443	32.898					44		
3		50		1730	50.31	-1.636	32.552					43		
4		40		1731	40.43	-1.568	32.286					42		
5		30		1732	29.80	-0.709	31.648					41		
6		25		1737	25.18	2.444	30.778					40		Probably 2x (yes) bottles 6 & 7
7		20 – 25		1738	20.12	2.738	30.346					39		
8		15	60	1738	14.61	2.747	30.138		K09 #2			38		30.33300 taken. To guess at where bottles tripped –
9		10 – 15		1739	9.85	2.198	29.616					37		won't be good calib. –
10		5 – 10		1740	4.86	1.420	28.026							
11		0 – 5			X				~~K09 #2~~			36		Leaker, sample not taken – bucket at surface – HPLC #3
12														

0 5 10 15 20 25 30 40 50 ... 65 70 80 90 100

1 135, 2 125, 3 115, 4 105, 5 100, 6 95, 7 90, 8 85, 9 80, 10 75, 11 70

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CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. m/s	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
75	73 35.27	164 47.20	14 SEP 90	20 25	1.6	0.5	96	2	2/5	112	33	3	5	6/8	139	K10

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465	32470
Temp.	6539	6280
Cond.	3159	8177

Times	JD/Time
Data on	2019
at Surface	2017
Start Down	2019
at Bottom	2025
Start Up	2025
at Surface	2032
Data Off	2033

Data Location
Floppy Number

Remarks
1st cast at same location

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		130		2025	129.68	-0.585	34.317				✓	56		
2		126		2026	120.10	-1.039	33.932							
3		110		2027	110.53	-1.422	33.631		K10a					33.59953
4		100		2028	100.77	-1.649	33.43							
5		95		2028	94.81	-1.666	33.39							
6		90		2029	89.64	-1.648	33.24							
7		85		2030	85.38	-1.642	33.21							
8		80		2030	79.93	-1.640	33.18							
9		70		2031	70.75	-1.665	32.8							
10		65		2031	65.03	-1.648	32.57							
11		60		2032	59.95	-1.635	32.52					46		no HPLC
12														

DW

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CHOEX-90/ ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (mb)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
76	73 35.71	164 47.86	14 SEP 90	2106	1.0	0.5	96	2	25	112	3.3	3	5	6	139	K106

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32465	32419
Temp.	6540	6235
Cond.	3158	8172

Times	JD/Time
Data on	2100
at Surface	2058
Start Down	2100
at Bottom	2106
Start Up	2106
at Surface	2113
Data Off	2114

Data Location
Floppy Number

Remarks
2nd cast at same location
cast to 100m for profile, then up to 70 & start sample to fill in upper layer

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		70		2106	70.06	-1.683	32.83				✓	67		
2		60		2107	59.84	-1.636	32.54							
3		50		2108	49.74	-1.592	32.21		K106 #1					32.22160 not done in K10a
4		40		2109	39.88	-1.333	31.81							31.64658
5		30		2109	29.87	-0.985	30.77							
6		25		2110	24.71	-0.053	30.03							
7		20		2111	19.95	+0.632	29.38		K106 #2					29.29745
8		15		2111	14.95	-0.377	27.55		K106 #2					
9		10		2112	10.21	-0.437	27.50							
10		5		2112	5.14	-0.441	27.5							
11		sfc		2113	2.02	-0.429	27.5					57		HPLC #4
12														

A Trip

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CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
77	73 52.09	165 25.69	145 EP 90	23 30											154	K11

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	34471
Temp.	6577	6198
Cond.	8931	8132

Times	JD/Time
Data on	2323
at Surface	2321
Start Down	2323
at Bottom	2330
Start Up	2330
at Surface	2336
Data Off	2337

Data Location
Floppy Number

Remarks
to the ice!
1st cast to 100m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		60		2330	59.95	-1.6	32.168		K11 #1		✓	78		31.89017 → bottom bottle didn't trip; ~~Not taken~~ one bottle did not trip -
2		60		2331	49.89	-1.51	31.901							we don't know which one
3		40		2331	39.78	-0.97	30.963		K11 #2					30.63366 took 5 salinity sample to
4		35		2332	34.85	2.74	30.702							try & detail signal + figure
5		30		2332	29.87	0.31	30.101		K11 #3					29.27138 out which is which
6		25		2333	24.83	0.71	29.348							(29.27170) Bottom bottle did not trip Terry Wh
7		20		2333	19.98	0.18	28.134		K11 #4					27.63133
8		15		2334	14.73	-0.5	27.564							
9		10		2335	10.02	-0.55	27.425		K11 #5					27.39925
10		5		2335	4.82	-0.59	27.406							
11		sfc		2336	1.63	-0.6	27.401					68		HPLC #5
12														ov.

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CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min. (51°)	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
78	35 2.95	165 26.52	15 SEP 90	00 29	-1.1	-1.6	98	1	½	072	4.0	9	6	21/00	154	K11B

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32463	34471
Temp.	6566	6199
Cond.	8922	8131

Times	JD/Time
Data on	0021
at Surface	0019
Start Down	0021
at Bottom	0029
Start Up	0029
at Surface	0037
Data Off	0039

Data Location
Floppy Number

Remarks
2nd cast at same position as #77

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		145			145.08	-0.464	34.41		K11B #1		✓	89		no water samples
2		135			135.12	-0.810	34.15							
3		130			129.87	-1.563	33.57							
4		120			120.44	-1.643	33.49							
5		110			109.68	-1.668	33.39							
6		100			99.95	-1.658	33.01							
7		90			90.00	-1.662	32.76							
8		80			78.66	-1.661	32.54							
9		70			69.81	-1.624	32.37							
10		60			59.97	-1.584	32.18		K11B #2					
11		50			49.89	-1.533	31.91					79		no HPLC
12														DLW

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
7	74 00.03	165 31.03	15 SEP 90	01 56											179	K12

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32463	32468
Temp.	6578	6775
Cond.	8132	8143

Times	JD/Time
Data on	0148
at Surface	0146
Start Down	0148
at Bottom	0156
Start Up	0158
at Surface	0206
Data Off	0208

Data Location
Floppy Number

Remarks: Ice edge!

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		170		0156	168.18	-0.292	34.52		K12 #1		✓	100		34.51800
2		155		0157	155.21	-0.331	34.496		K12 #2					34.47645
3		130		0159	130.16	-1.480	33.60							
4		110		0200	116.16	-1.642	33.24							
5		100		0201	99.99	-1.658	33.01							
6		90		0202	90.04	-1.649	32.79		K12 #3					32.78705
7		80		0203	79.91	-1.624	32.61							
8		70		0203	69.71	-1.627	32.39							
9		60		0204	59.82	-1.591	32.13							
10		50		0205	49.34	-1.398	31.75							
11		40		0206	39.90	-1.231	31.09					90		no HPLC
12														D✓ U✓

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CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
80	74 00.45	165 33.73	15 SEP 90	02 58	-0.8	-1.4	992	2	20	049	46	10	20	60	179	K12b

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32463	32468
Temp.	6579	6159
Cond.	8930	8136

Times	JD/Time
Data on	0250
at Surface	0248
Start Down	0250
at Bottom	0258
Start Up	0258
at Surface	0302
Data Off	0303

Data Location
Floppy Number

Remarks
2nd cast at same location
ice edge

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		40		0258	39.77	-1.322	31.22		K12b #1		✓	8		31.21642 Sediment, plankton
2		30		0259	29.98	+2.212	30.35							high-vol. filter
3		25		0300	24.92	+2.061	30.11							
4		20		0300	19.66	+2.068	29.76							
5		15		0301	14.75	+0.773	28.69							
6		10		0301	10.16	-0.743	27.79							
7		5		0302	5.11	-0.862	27.71		K12b #2					27.72454
8		Sfc		0302	1.62	-0.853	27.69					07		HPLC .6
9		10												
10		5												
11		Sfc												
12														

SV

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

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Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
81	73 34.47N	166 40.25W	15 SEP 90	1657	-0.8	-1.0	998	4	1.5	076	11	10	7	3/0	114	101

997.6 10.6

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks

	on Deck:	at Surface:
Press.	32462.96	32466.9
on pump. Temp.	6562	6186.670
on pump. Cond.	8894	8173

Times	JD/Time
Data on	1652
at Surface	1652
Start Down	1652
at Bottom	1657
Start Up	1657
at Surface	1706
Data Off	1706

Data Location
Floppy Number

Remarks
At ice edge

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		100		1657	104.56	-1.523	33.396		JOI #1		✓	20		33.38341
2		75		1700	75.93	-1.663	32.963					19		
3		50		1701	50.57	-1.587	32.450		JOI #2			18		32.40401 / 32.40400
4		40		1702	41.00	-1.538	32.167					17		
5		35		1703	34.83	-1.455	31.750					16		
6		30		1703	31.26	-1.322	31.506					15		
7		25		1704	25.29	-0.377	30.829					14		
8		20		1704	20.26	1.454	30.492		JOI #3			13		30.46491 / 30.46460
9		15		1705	14.07	1.437	30.152					12		
10		10		1706	10.03	-0.737	27.782					11		
11		5		1706	5.39	-0.753	27.774		JOI #4			10		27.76387 / 27.76362
12		0		1706	2.99	-0.754	27.774					9		HPLC II 7

AV UV

52-42

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
82	73 15.30	167 48.13	15 SEP 90	2055	0.4	0.2	003	5	1	178	74	10	6	25	86	I02

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32463	32469
Temp.	6744	6175
Cond.	9025	8143

Times	JD/Time
Data on	2052
at Surface	2050
Start Down	2052
at Bottom	2055
Start Up	2055
at Surface	2101
Data Off	2102

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		75		2055	74.28	-1.615	33.34		I02 #1		✓	31		33.33485
2		65		2056	65.02	-1.608	33.33		I02 #2					33.33133
3		50		2057	49.91	-1.603	32.49							
4		40		2057	39.73	-1.602	32.21							
5		30		2058	30.25	-1.464	31.8988							
6		25		2059	25.22	-1.355	31.54							
7		20		2059	20.00	+1.890	30.66							
8		15		2100	14.79	+2.386	30.47		I02 #3					30.48170
9		10		2100	9.97	1.633	30.08							
10		5		2101	5.05	-0.793	27.63					22		
11		Sfc		2101	1.88	-0.801	27.63					21		HPLC #8
12														

✓

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
83	73 20.13	168 59.27	15 SEP 90	23 31											102	H01

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32464	32469
Temp.	6626	6324
Cond.	8934	8402

Times	JD/Time
Data on	2327
at Surface	2325
Start Down	2327
at Bottom	2331
Start Up	2331
at Surface	2338
Data Off	2339

Data Location
Floppy Number

Remarks
northern pt. on line H, headed down convention line

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values S & ρ Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		90			90.07	-1.6	33.514				✓	41		
2		70			69.91	-1.66	32.877					↑		
3		50			49.98	-1.64	32.286		H01 #2					32.27134
4		30			30.16	-1.22	31.523							
5		25			24.84	-0.71	30.854							
6		20			20.19	0.13	30.569							
7		15			14.53	1.06	30.401							
8		10			10.31	0.40	29.157							
9		5			4.92	0.23	28.793							
10		sfc			2.14	0.24	28.782		H01 #1			32		HPLC #1 -28.77268
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	84 72 59.68	168 57.26	66 SEP 90	02 04	+0.5	-0.1	05	3	20	204	60	10	5	70	74	H02

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32465	32471
Temp.	6740	6472
Cond.	9020	8688

Times	JD/Time
Data on	0201
at Surface	0159
Start Down	0201
at Bottom	0204
Start Up	0204
at Surface	0210
Data Off	0211

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		65		0204	66.34	-1.442	33.27				✓	51		
2		55		0205	55.10	-1.437	33.26		H02 #1					33.25425
3		45		0206	45.02	-1.274	32.93		H02 #2					32.91627 / 32.93647
4		30		0207	30.26	-1.570	32.38							
5		25		0208	23.05	0.737	31.62							
6		20		0208	20.14	1.332	31.21							
7		15		0209	15.43	1.413	30.98							
8		10		0209	10.35	1.342	30.52							
9		5		0210	4.84	1.301	30.36							
10		sfc		0210	4.49	1.296	30.36					42		HPLC #2
11														
12														

Ship: Professor Khromov

ICE

m/s

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
85	72 39.77	168 57.34	16 SEP 90	0432	+0.3	+0.1	1071	25	22	29	29	97	6		82	H03

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32465	32473
Temp.	6810	6526
Cond.	9073	8836

Times	JD/Time
Data on	0429
at Surface	0427
Start Down	0429
at Bottom	0432
Start Up	0432
at Surface	0439
Data Off	0440

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		75		0432	75.70	-1.36	33.127				✓	61		
2		55		0434	54.86	-1.36	33.124		H03 #1					33.12870
3		35		0435	35.48	-1.44	32.552							
4		30		0435	30.34	-0.08	32.277							
5		25		0436	24.82	0.41	31.971							
6		20		0437	20.29	1.68	31.6							
7		15		0437	15.08	1.72	31.451							
8		10		0438	9.92	1.68	31.366		H03 #2					31.36296 (31.36246)
9		5		0438	5.12	1.68	31.365							
10		Sfc		0439	2.83	1.68	31.365					52		HPLC #3
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp. (m/s)	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
86	72 19.76	168 58.13	16 SEP 90	06 54	0.7	0.0	091	1	2 5	338	29	9	6	6	64	H04

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32465	32470
Temp.	6792	6617
Cond.	9060	8929

Times	JD/Time
Data on	0650
at Surface	0648
Start Down	0650
at Bottom	0654
Start Up	0654
at Surface	0700
Data Off	0701

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		60		0654	60.89	-1.28	33.072				✓	71		
2		50		0655	50.10	-1.27	33.011		Hoy #2					33.00798 (33.00770)
3		40		0656	40.15	-1.15	32.777							
4		30		0657	30.11	+2.97	32.070							
5		25		0657	25.11	3.08	32.080							
6		20		0658	20.04	3.16	32.058							
7		15		0659	15.00	2.78	31.813		Hoy #1	must	be			31.57714 / 31.57727
8		10		0659	10.06	2.35	31.576							
9		5		0700	4.97	2.35	31.57							
10		sfc		0700	2.62	2.34	31.569					62		HPLC #4
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
8	77200.07N	168 58.37W	165GP90	0917	1.0	0.1	1010.5	1	25	338	1.9	3	2	70	56	H05

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.525	32467769
Temp.	6747	6848.773
Cond.	9026.9	9061.017

on pump

Times	JD/Time
Data on	0908
at Surface	0908
Start Down	0908
at Bottom	0910
Start Up	0910
at Surface	0915
Data Off	0917

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		0910	46.00	-0.997	32.771				✓	82		
2		40		0911	40.42	-0.955	32.696							
3		35		0911	35.01	-0.885	32.637		H05 #1					32.63470/ 32.63494
4		30		0912	29.92	-0.809	32.630							
5		25		0913	25.30	1.876	32.184							
6		20		0913	20.63	4.259	31.601							
7		15		0914	14.94	4.417	31.572		H05 #2					31.5672
8		10		0914	9.95	4.380	31.536							
9		5		0915	4.73	4.344	31.529							
10		0		0915	1.89	4.333	31.527					73		HPLC #5
11														
12														

B trp

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

50

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
88	74 40.08 N	168 57.93 W	165 CP 90	11 28	11.9	9.1	13	1	25	042	1.5	4	2	7/8	(54)	H06

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32465.9	32469.6
Temp.	6779.2	6869-75
Cond.	9051.2	9088 –

Times	JD/Time
Data on	1126
at Surface	1126
Start Down	1126
at Bottom	1128
Start Up	1128
at Surface	1133
Data Off	1135

Data Location: 1012.7
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		1128	44.01	-0.737	32.634							
2		40		1129	39.94	-0.760	32.620		H06 #1					32.61614 ?
3		35		1129	35.47	-0.750	32.617							
4		30		1130	29.97	1.343	32.298							
5		25		1130	24.64	4.375	31.555							
6		20		1131	19.41	4.400	31.558							
7		15		1132	15.06	4.402	31.557		H06 #2					31.55057 (31.55073)
8		10		1132	10.15	4.424	31.551							
9		5		1133	5.17	4.340	31.490							
10		0		1133	2.00	4.255	31.460							HPLC 6
11														
12														

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CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
897	71 19.45 N	168 59.12 W	16 SEP 90	1350	2.6	1.3	1013.3	2	25	051	50	6	5	80	50	H07

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32465 / 32469
Temp. SN	1072	on pump Temp.	6804 / 6852
Cond. SN	748	Cond.	9069 / 9075

Times	JD/Time
Data on	1348
at Surface	1348
Start Down	1348
at Bottom	1350
Start Up	1350
at Surface	1355
Data Off	1357

Data Location
Floppy Number 0-8 min

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		1350	43.94	-0.028	32.531				✓	2		
2		40		1351	39.40	-0.029	32.531		H07 #1			1		32.52722
3		35		1351	34.27	-0.036	32.532					100		
4		30		1352	29.81	0.970	32.345					99		
5		25		1352	25.02	4.062	31.662					98		
6		20		1353	19.68	4.241	31.578					97		
7		15		1354	14.69	4.277	31.574		H07 #2			96		31.56553
8		10		1354	9.50	4.361	31.543					95		
9		5		1355	5.02	4.301	31.472					94		
10		0		1355	1.77	4.280	31.466					93		HPLC # 7
11														
12														

✓

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
907	104.29	168 57.54	16 SEP 90	1551	2.8	1.9	1013.1	3	25	070	7.7	10	5	70	47	1408

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.9	32468
Temp.	6906	6909
Cond.	9146	9125

Times	JD/Time
Data on	1548
at Surface	1548
Start Down	1548
at Bottom	1551
Start Up	1551
at Surface	1556
Data Off	1557

Data Location: Floppy Number 8.33 - 16.46

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		45		1551	45.77	0.214	32.535							
2		40		1551	40.60	0.202	32.524		1408 #1					32.52040
3		35		1552	35.27	0.205	32.510							
4		30		1552	30.30	3.878	31.810							
5		25		1553	24.46	4.082	31.678							
6		20		1554	19.91	4.060	31.629							
7		15		1554	13.46	4.147	31.595							
8		10		1555	9.51	4.348	31.504							
9		5		1555	5.17	4.358	31.497		1408 #2					31.49084
10		0		1556	2.09	4.355	31.499							HPLC 8
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

33

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
91	70 47.96N	168 58.31	16 SEP 90	1755	3.3	2.1	1025	25	06	3	12	9	5	90	37	1709

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465.6	32469
Temp.	6910	6889
Cond.	32.026	9125

Just off pump

Times	JD/Time
Data on	1753
at Surface	1753
Start Down	1753
at Bottom	1755
Start Up	1755
at Surface	1759
Data Off	1801

Data Location: 1012.5

Floppy Number: 1650-

11.6

Remarks: Added to line H/ intersects line F

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		35		1755	35.44	0.454	32.478		H09 #1		✓	20		32.46257
2		30		1756	30.11	0.731	32.429							
3		25		1756	24.53	4.056	31.666							
4		20		1757	20.01	4.158	31.639							
5		15		1757	14.64	4.216	31.611							
6		10		1758	10.39	4.155	31.520		H09 #2					31.51345 (31.51377)
7		5		1758	5.24	4.147	31.518							
8		0		1759	2.17	4.144	31.519					13		HPLC #1
9														
10														
11														
12														

54

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
92	70 47.65	170 05.69	16 SEP 90	20 24	3.8	2.5	1025	5	25	071	12	6	5	70	42	F01

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32467	32473
Temp.	7015	6930
Cond.	9225	9171

Times	JD/Time
Data on	2023
at Surface	2021
Start Down	2023
25 ~~at Bottom~~	2024
Start Up	2024
at Surface	2027
Data Off	2028

Data Location
Floppy Number

Remarks: to 25m

straddle heading west from H09

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2025	25.00	4.43	31.636				✓	26		
2		20		2025	20.46	4.43	31.635					25		
3		15		2026	15.53	4.44	31.634					24		
4		10		2026	10.06	4.43	31.633			F01		23		31.64249 (31.64217)
5		5		2027	5.49	4.43	31.632					22		
6		sfc		2027	2.38	4.43	31.633					21		HPLC #2
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
93	70 48.31	17 11 12.80	16 SEP 90	22 48	3.9	3.3	1253	3		068	12	0	2	7	43	F02

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6538	6888
Cond.	3085	9144

Times	JD/Time
Data on	2247
at Surface	2245
Start Down	2247
25 ~~at Bottom~~	2248
Start Up	2248
at Surface	2251
Data Off	2252

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2248	26.77	3.269	32.03				✓	32		
2		20		2249	19.95	3.961	31.75					31		
3		15		2249	15.26	4.054	31.72		F02			30		31.74472 (31.74451)
4		10		2250	10.61	4.113	31.72		F02			29		
5		5		2250	4.41	4.123	31.73					28		
6		8c		2251	1.78	4.13	31.73					27		HPLC #3
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
94	70 48.08	172 20.58	17 SEP 90	01 16	4.1	3.3	12	5	20	064	12	6	2	6 %	48	F03

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32473
Temp.	6926	6889
Cond.	3086	9187

Times	JD/Time
Data on	0115
at Surface	0113
Start Down	0115
~~at Bottom~~ 25	0116
Start Up	0116
at Surface	0119
Data Off	0120

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0116	25.15	3.364	32.302				✓	38		
2		20		0117	20.02	4.002	32.084							
3		15		0117	14.91	4.132	32.030		F03					32.04273 (32.04264)
4		10		0118	10.00	4.147	32.028							
5		5		0118	5.25	4.138	32.026							
6		stc		0119	2.70	4.129	32.026					33		HPLC #4
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90/ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
95	70 48.61	173 31.55	175 EP 90	03 58	3.8	3.2	11	6	25	048	15	8	6	PL 60	38	F04

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32466	32474
Temp.	6847	6872
Cond.	3368	9152

Times	JD/Time
Data on	0357
at Surface	0355
Start Down	0357
~~at Bottom~~	0358
Start Up	0358
at Surface	0401
Data Off	0402

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0358	25.67	2.697	32.605					44		
2		20		0359	18.46	3.925	31.872					↑		
3		15		0400	14.71	4.059	31.842		F04					31.85071 (31.85105)
4		10		0400	9.32	4.076	31.839							
5		5		0401	4.61	4.073	31.84							
6		stc		0401	2.84	4.072	31.84					39		HPLC #5
7														
8														
9														
10														
11														
12														

338, 944

174

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
96	70 54.40	173 05.91	175 Sep 90	0532	4.2	3.2	11	6	25	050	15	10	9	4 00	47	F05

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32466	32472
Temp.	6810	6987
Cond.	63150	9215

Times	JD/Time
Data on	0531
at Surface	0529
Start Down	0531
~~at Bottom~~ 25	0532
Start Up	0532
at Surface	0535
Data Off	0536

Data Location
Floppy Number

Remarks: 25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0532	25.68	4.812	31.659					50		
2		20		0533	19.52	4.814	31.656							
3		15		0533	14.20	4.811	31.656		F05					31.66495 (31.66501)
4		10		0534	8.81	4.811	31.654							
5		5		0534	5.04	4.806	31.657							
6		sfc		0535	4.44	4.811	31.657					45		HPLC #6
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

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Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
97	70 58.19	174 54.88	15 SEP 90	0730	3.4	2.3	1011.6	25	05	316	10	7	9/60		74	F06

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32466 / 32472
Temp. SN	1072	Temp. (on tube)	6788 / 6845
Cond. SN	748	Cond.	3085 / 9096

Times	JD/Time
Data on	0728
at Surface	0728
Start Down	0728
at Bottom	0730
Start Up	0730
at Surface	0732
Data Off	0732

Data Location: 1011.0
Floppy Number

Remarks: 25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0730	21.37	4.020	32.075					56		Rolling from 21-26 m
2		20		0730	20.41	4.065	32.076		F06 #1					32.08484 (32.08505) Prob. not good ↑
3		15		0731	14.38	4.065	32.077							
4		10		0731	9.68	4.090	32.080							
5		5		0732	4.77	4.087	32.079							
6		0		0732	3.48	4.084	32.079					51		HPLC #7
7														
8														
9														
10														
11														
12														

Наутилус Паллилус

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

56

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
98	7104.69	17542.41	17SEP90	0927	3.8	2.1	11	6	25	04	15	9	5	60	60	F07

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465	32472
Temp. (on tube)	6663	6732
Cond.	3185	9054

Times	JD/Time
Data on	0926
at Surface	0926
Start Down	0926
at Bottom	0927
Start Up	0927
at Surface	0930
Data Off	0932

Data Location: 10 11.3 14.8

Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0927	23.69	3.080	32.143					61		
2		20		0927	19.89	3.124	31.945							
3		15		0928	13.69	3.091	31.892		F07 #1					
4		5		0929	5.89	3.092	31.895							> Missed 10m / Rough 31.90690
5		0		0930	0.65	3.087	31.893					57		H
6														
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov — CHOEX-90 ICE-90 — 35

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
99	71 10.45	176 33.08	175 EP 90	11 26	3.2	2.3	1012.0	6	20	036	14.4	10	5	60	39	F08

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32465 / 32471
Temp. SN	1072	Temp.	6550 / 6530
Cond. SN	748	Cond.	3132 / 8560

Times	JD/Time
Data on	1124
at Surface	1124
Start Down	1124
at Bottom	1126
Start Up	1126
at Surface	1129
Data Off	1131

Data Location Floppy Number: 1055

Remarks: 25 m

W Station near Wrangel Island

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1126	25.02	2.438	32.031					67		
2		20		1126	19.96	1.949	31.115							
3		15		1127	14.38	1.616	29.943							
4		10		1127	9.45	1.630	29.880		F08 #1					29.89742
5		5		1128	6.47	1.625	29.879							
6		0		1129	2.69	1.623	29.873					62		HPLC #
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
100	72 11.82	173 51.32	18 SEP 90	02 53										54	905

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32464	32472
Temp.	6512	6730
Cond.	3158	8060

Times	JD/Time
Data on	0251
at Surface	0249
Start Down	0251
~~at Bottom~~	0253
Start Up	0253
at Surface	0255
Data Off	0256

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0253	25.22	3.075	31.99							
2		15		0253	17.38	3.093	31.97		965					31.97917
3		10		0254	11.53	3.091	31.97							
4		5		0255	5.78	3.088	31.96							
5		5b		0255	3.38	3.0899	31.96							
6														
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
101	72 07.52	174 34.39	18 05 90	04 41	-0.5	-0.9	19	6	20	04	61	58	5	6	60	904

CTD Type & SN SEABIRD

Press. SN 41681

Temp. SN 1072

Cond. SN 748

Monitor Checks

	on Deck:	at Surface:
Press.	32467	32470
Temp.	6523	6785
Cond.	8872	9095

Times	JD/Time
Data on	0440
at Surface	0438
Start Down	0440
~~at Bottom~~	0441
Start Up	0441
at Surface	0443
Data Off	0444

Data Location
Floppy Number

Remarks
25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0441	26.18	3.451	31.92				✓			
2		20		0441	19.64	3.458	31.92							
3		15		0442	14.77	3.428	31.91		984					31.92426
4		10		0442	10.01	3.418	31.91							
5		5		0443	4.96	3.442	31.91							
6		sfc		0443	1.75	3.433	31.91							
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
102	7159.29	17525.47	18SEP90	0652	-0.4	-1.4	196	20	04	31	16	0	5	60	74	603

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32465	32470
Temp.	6481	6782
Cond.	8854	9100

Times	JD/Time
Data on	0651
at Surface	0649
Start Down	0651
~~at Bottom~~	0652
Start Up	0652
at Surface	0654
Data Off	0655

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0652	25.04	3.424	31.97							
2		20		0652	20.34	3.390	31.97							
3		15		0653	14.30	3.409	31.97		X					31.97632
4		10		0653	11.27	3.390	31.96							
5		5		0654	4.75	3.384	31.96							
6		Sfc		0654	4.24	3.382	31.96							
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

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Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
103	71 52.05	176 13.40	18 SEP 90	0849	-0.1	-0.7	206	20	058	13	10	5	60		55	602

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press. 32465	32469
Temp. SN	1072	Temp. 6339	6473
Cond. SN	748	Cond. 3183	8537

Times	JD/Time
Data on	0848
at Surface	0848
Start Down	0848
at Bottom	0849
Start Up	0849
at Surface	0852
Data Off	0853

Data Location: 1020.0
Floppy Number: 13.1

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal. ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0849	23.42	-0.504	32.041				✓	89		
2		20		0850	20.53	2.322	31.695					↑		
3		15		0851	15.22	1.402	29.140							
4		10		0851	11.87	1.408	29.149		601 #1					29.14717
5		5		0852	5.52	1.433	29.140							
6		0		0852	2.12	1.439	29.141		602 #1			84		HPLC # 5
7														
8														
9														
10														
11														
12														

400 1200

Ship: Профессор Хромов / Professor Khromov

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28

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
104	71 44.98	177 00.83	18 SEP 90	1047	-0.4	-1.1	20	6	20	043	15	10	5	6/2	32	601

1030.5 14.6

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32464	
Temp.	6311	
Cond.	3130	

Times	JD/Time
Data on	1046
at Surface	10
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number

Remarks: Starts at 10 min

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Cond. (Sal)	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1047	23.61	-1.039	31.708		G01 #1		✓			31.71227
2		20		1048	19.36	-1.026	31.670							
3		15		1048	16.75	1.124	28.589							
4		10		1049	11.06	1.141	28.580		G01 #2					28.59005
5		5		1050	3.97	1.142	28.579							
6		0		1050	2.98	1.142	28.579							
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
105	71 27.01 N	177 01.85 W	18 SEP 90	1314	-0.3	-0.7	1020.2	6	25	038	14.2	19	9	40	28	001

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32463	
Temp.	4483	
Cond.	8763	

Times	JD/Time
Data on	1313
at Surface	1313
Start Down	1313
at Bottom	1314
Start Up	1314
at Surface	1317
Data Off	1319

Data Location
Floppy Number 1526

Remarks
0 not zero
Station added between G 1 & F1
3 m + waves

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1	bottom	25		1314	22.35	0.977	29.272				✓	1		
2		20		1314	19.84	0.987	29.252		001 #1			100		29.25583
3		15		1315	15.84	0.982	29.265					99		
4		10		1316	12.05	0.987	29.254					98		
5		5		1316	4.58	0.985	29.252					97		
6		0		1317	3.26	0.985	29.219					96		HPLC #7
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

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Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
106	70 51.66	177 32.26	18 5 1990	18 00	-0.2	-0.6	1020.4	5	12	038	12.1	9	3	30	38	002

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32463	32472
Temp.	6372	6495
Cond.	3727	8837

Times

	JD/Time
Data on	~~1800~~ 1759
at Surface	
Start Down	
~~at Bottom~~	1800
Start Up	1801
at Surface	1803
Data Off	

Data Location
Floppy Number

Remarks
Overheaded 5.0 f
Wrangel Island to Low E.
Rough weather
25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1800	23.43	1.524	31.65				✓	6		
2		20		1801	20.86	1.530	31.64		002 #1			5		31.65136
3		15		1801	14.32	1.534	31.65					4		
4		10		1802	8.55	1.528	31.63					3		
5		5		1802	5.05	1.525	31.62					2		
6		0		1803	3.64	1.523	31.62					1		
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
10	77 04.8 19	178 36.46	18 SEP 90	2036	-0.2	-0.9	21	6	½	018	14	10	9	4	38	003

CTD Type & SN	SEABIRD
Press. SN	
Temp. SN	
Cond. SN	

Monitor Checks	on Deck:	at Surface:
Press.	32463	32471
Temp.	6429	6468
Cond.	8775	8787

Times	JD/Time
Data on	2036
at Surface	2034
Start Down	2036
25 ~~at Bottom~~	2036
Start Up	2036
at Surface	2039
Data Off	2040

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	Cond.	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		X	✓								✓	12		
2		X	✓									11		
~~3~~	1	25		2036	26.27	1.418	31.39				✓	12		
~~4~~	2	20		2037	21.15	1.345	31.34					11		
5	3	15		2037	14.31	1.237	31.31		003			10		31.31800
~~6~~	4	10		2038	9.85	1.204	31.3					9		
~~7~~	5	5		2038	5.60	1.194	31.3					8		
~~8~~	6	SL		2039	2.51	1.187	31.29					7		
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
1	087 03.8.15	179 33.67	18 SEP 90	22 44	0.4	-0.4	23	5	1/2	040	11	6	9	4	41	004

CTD Type & SN: SEABIRD
Press. SN:
Temp. SN:
Cond. SN:

Monitor Checks	on Deck:	at Surface:
Press.	32464	32471
Temp.	6463	6480
Cond.	8790	8761

Times	JD/Time
Data on	2243
at Surface	2241
Start Down	2243
~~at Bottom~~ 25	2244
Start Up	2244
at Surface	2246
Data Off	2247

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond.~~ Sal	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		2244	26.07	0.8198	31.41				✓	18		
2		20		2244	20.42	1.305	31.09					17		
3		15		2245	15.45	1.345	30.98		004			16		30.92653 Not entered
4		10		2245	9.84	1.3597	30.90					15		
5		5		2246	5.07	1.3587	30.90					14		
6		sfc		2246	2.28	1.3644	30.87					13		
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

ICE

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
109	7034.93	179 23.44 E	19 SEP 90	0048	0.2	-0.6	23	5	20	040	11	9	5	6/8	44	005

CTD Type & SN	SEABIRD		
Press. SN			
Temp. SN			
Cond. SN			

Monitor Checks	on Deck:	at Surface:
Press.	32465	32471
Temp.	6512	6528
Cond.	8829	8756

Times	JD/Time
Data on	0047
at Surface	0045
Start Down	0047
at Bottom	0048
Start Up	0048
at Surface	0050
Data Off	0051

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25	0	0048	26.04	1.604	30.66				✓	24		
2		20		0049	20.42	1.658	30.65					23		
3		15		0049	14.30	1.721	30.65		005			22		30.66119
4		10		0050	10.59	1.719	30.65					21		
5		5		0050	6.13	1.718	30.65					20		
6		Sfc		0051	2.48	1.710	30.65					19		
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

44

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
110	70 30.44	178 27.67 E	19 SEP 90	1118	-0.3	-1.8	1026.6	3	20	006	8.1	10	5	60	48	E04

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN	41681	Press.	32463 / 32467
Temp. SN	1072	Temp.	6362 / 6637
Cond. SN	748	Cond.	3234 / 8664.8

Times	JD/Time
Data on	1117
at Surface	1117
Start Down	1117
at Bottom	1118
Start Up	1118
at Surface	1121
Data Off	1123

Data Location Floppy Number

Remarks: E04T = from tape → lost upper 5m on upcast

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1118	24.94	2.720	30.407					30		Program hung up / got no MRK file
2		20		1118	20.10	2.818	30.396					29		Rerun (E04T) from tape & generated
3		15		1119	14.77	2.609	29.428					28		approx. .mrk file where we stopped
4		10		1120	9.76	2.469	29.170		E04 #1			27		(29.17409) on upcast.
5		5		1120	4.97	2.463	29.165					26		
6		0		1121	1.69	2.459	29.165					25		
7														
8														
9														
10														
11														
12														

поехала сумасшедший

Крыша

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

43

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
111	70 17.93 N	178 21.97 E	195 EP 90	1310	-0.8	-1.9	253	20	001	07	7.0	10	5	6/8	47	E03

CTD Type & SN	SEABIRD	Monitor Checks on Deck:	at Surface:
Press. SN		Press.	32470
Temp. SN		Temp.	6652
Cond. SN		Cond.	8696

Times	JD/Time
Data on	1308
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1310	26.27	3.612	30.844				✓	36		
2		20		1310	20.48	2.842	29.508							
3		15		1311	13.30	2.708	29.268		E3 #1					29.27339
4		10		1311	9.88	2.702	29.263							
5		5		1312	4.95	2.701	29.263							
6		0		1312	2.17	2.700	29.264					31		
7														
8														
9														
10														
11														
12														

Сомётное

Ship: Professor Khromov

CHOEX-90/ICE-90

42

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
11	27006.25N	178 04.73E	19 SEP 90	1442	-0.7	-1.7	25	3	29	016	8.5	10	5	60	46	E02

CTD Type & SN	SEABIRD		
Press. SN	14681	Press.	32464 / 32469
Temp. SN	1072	Temp.	6418 / 6635
Cond. SN	748	Cond.	8756 / 8685

Monitor Checks — on Deck: / at Surface:

Times	JD/Time
Data on	1440
at Surface	1440
Start Down	1440
at Bottom	1442
Start Up	1442
at Surface	1445
Data Off	1447

Data Location: 1084.9
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1				1442	24.60	-1.244	32.303					42		
2				1442	20.91	0.811	31.977							
3				1443	15.22	2.730	29.770							
4				1444	8.94	2.714	29.762		E2 #1					29.76971 (29.77059)
5				1444	4.52	2.718	29.764							
6				1445	1.62	2.716	29.764					37		
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX-90 / ICE-90

38

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
113	6947.79N	17757.95E	19SEP90	1659	-0.8	-1.6	24	3	20	355	73	10	5	60	42	EO1

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32464.8	32468.8
Temp. (on pump)	6413.8	6480-3
Cond.	8753.9	8811-7

Times	JD/Time
Data on	1658
at Surface	1658
Start Down	1658
at Bottom	1659
Start Up	1659
at Surface	1702
Data Off	1703

Data Location: 1024.3
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	Sal ~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1659	25.28	-0.060	32.521					48		
2		20		1700	19.56	0.742	32.149							
3		15		1700	15.43	0.775	32.139							
4		10		1701	10.18	0.962	32.018							
5		5		1701	4.26	1.328	31.740		E1 #1					31.75235 (31.75241)
6		0		1702	3.02	1.328	31.739					43		
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX 90 / ICE 90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
114	67 17.22	173 24.10	23 SEP 90	03 10	0.4	-0.2	01	5	½	327	03	99	48	32	P01

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32463	32469
Temp.	6768	6706
Cond.	9043	9113

Times	JD/Time
Data on	0308
at Surface	0306
Start Down	0308
at Bottom	0310
Start Up	0310
at Surface	0313
Data Off	0314

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0310	25.34	2.909	32.61				✓	54		
2		20		0311	19.41	2.92	32.61					53		
3		15		0311	14.75	2.92	32.61		P01			52		32.62372
4		10		0312	9.64	2.914	32.61					51		
5		5		0312	4.63	2.911	32.61					50		
6		sfc		0313	1.15	2.934	32.61					49		no HPLC
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX90/ICE90

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
115	67 26.75	173 39.06	23 SEP 90	0537	-0.6	-1.1	00	5	1	333	14	9	8	46	50	P02

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks	on Deck:	at Surface:
Press.	32464	32476
Temp.	6575	6743
Cond.	8897	9152

Times	JD/Time
Data on	0535
at Surface	0533
Start Down	0535
at Bottom	0537
Start Up	0537
at Surface	0540
Data Off	0541

Data Location
Floppy Number

Remarks

25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0537	25.05	3.191	32.699				✓	60		
2		20		0538	20.66	3.188	32.7					59		
3		15		0538	14.53	3.186	32.7		P02			58		32.70984
4		10		0539	8.74	3.188	32.7					57		
5		5		0539	3.81	3.186	32.700					56		
6		sfc		0540	3.02	3.186	32.701					55		
7														
8														
9														
10														
11														
12														

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CHOEX90 / ICE90

44

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
116	6734.92N	17154.55W	23SEP90	0802	0.2	-0.7	998	6	20	320	15	10	9	4/9	48	P03

CTD Type & SN	SEABIRD		
Press. SN	41681		
Temp. SN	1072		
Cond. SN	748		

Monitor Checks	on Deck:	at Surface:
Press.	32464	32469
Temp.	6378	6709
Cond.	3180	9085

Times	JD/Time
Data on	0801
at Surface	0801
Start Down	0801
at Bottom	0802
Start Up	0802
at Surface	0805
Data Off	0807

997.7 14.6

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		0802	24.55	3.438	32.607				✓	66		
2		20		0803	20.01	3.438	32.606		P03 #1			65		32.61821
3		15		0803	15.17	3.437	32.607					64		
4		10		0804	9.64	3.437	32.607					63		
5		5		0804	4.67	3.417	32.608					62		
6		0		0805	1.07	3.415	32.608					61		NO HPLC
7														
8														
9														
10														
11														
12														

Ship: Профессор Хромов / Professor Khromov

CHOEX90/ICE90

46

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
117	67 44.02	171 11.06	23 SEP 90	1150	0.2	-0.5	997.0	4	20	329	10.2	7	5	60	50	P04

CTD Type & SN: SEABIRD
Press. SN: 41681
Temp. SN: 1072
Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465	32469
Temp.	6275	6749
Cond.	3182	9126-35

Times	JD/Time
Data on	1149
at Surface	1149
Start Down	1149
at Bottom	1150
Start Up	1150
at Surface	1153
Data Off	1155

Data Location
Floppy Number

Remarks: 25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Press.	Temp.	~~Cond~~ Sal	Other	Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1150	24.90	3.230	32.610				✓	72		
2		20		1151	20.29	3.228	32.610					71		
3		15		1151	13.66	3.229	32.609		PO4 #1			70		32.62126
4		10		1152	8.91	3.226	32.609					69		
5		5		1152	4.77	3.228	32.610					68		
6		0		1153	1.61	3.225	32.610					67		NO HPLC
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEXGO / ICE 90

46

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
118	67 52.69	170 23.96	23 SEP 90	1413	-0.1	-0.4	995	5	08	322	12	10	3	40	50	P05

994.7 08 12.5

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32.64	32.69
Temp. (on pump)	6535	6688-6722
Cond.	8868	9060-9100

Times	JD/Time
Data on	1413
at Surface	1413
Start Down	1413
at Bottom	1414
Start Up	1414
at Surface	1417
Data Off	1419

Data Location
Floppy Number

Remarks: 25 m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Sal Press.	Temp.	~~Cond.~~	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1414	25.64	3.046	32.722				✓	78		
2		20		1415	20.26	3.040	32.720					77		
3		15		1415	15.38	3.041	32.721		POS #1			76		32.72838
4		10		1416	9.99	3.041	32.721					75		
5		5		1416	4.99	3.043	32.722					74		
6		0		1417	2.18	3.034	32.720					73		
7														
8														
9														
10														
11														
12														

Ship: Professor Khromov

CHOEX90 / ICE90

53

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
119	68 00.08N	169 42.112W	23 SEP 90	1637	0.9	0.2	946	20	3	29	17	10	5	%	57	P06

CTD Type & SN: SEABIRD

Press. SN: 41681

Temp. SN: 1072

Cond. SN: 748

Monitor Checks

	on Deck:	at Surface:
Press.	32465	32470
Temp.	6470	6752
Cond.	3160	9120-9120

shut off pump

Times

	JD/Time
Data on	1635
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Data Off	

Data Location
Floppy Number

Remarks

25m

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1637	25.47	3.248	32.917				✓	84		
2		20		1637	20.58	3.247	32.917					83		
3		15		1638	14.64	3.240	32.915		P06 #1			82		32.88542
4		10		1638	9.74	3.247	32.917					81		
5		5		1639	4.43	3.240	32.917					80		
6		0		1639	3.45	3.239	32.916					79		
7														
8														
9														
10														
11														
12														

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CTD Ex-90 / ICE-90

53

Consec. Cast #	Latitude Deg. Min.	Longitude Deg. Min.	Date JD = Day Mo. Yr.	Time, GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
120	68 08.00	169 00.83	235 EP 90	1902	-0.7	-1.09	956	2	3	333	13	10	3	40	57	P07

CTD Type & SN	SEABIRD
Press. SN	41681
Temp. SN	1072
Cond. SN	748

Monitor Checks	on Deck:	at Surface:
Press.	32463	32467
Temp.	6500	6880
Cond.	3500	9172

Times	JD/Time
Data on	1901
at Surface	1901
Start Down	1901
at Bottom	1902
Start Up	1902
at Surface	1905
Data Off	1907

Data Location: 994.7
Floppy Number

Remarks

Pos.	Bot. #	Trip Depth	Time at Depth	Time Trip	Monitor Values Press.	Temp.	~~Cond.~~ Sal.	Other	Sample Bottle Numbers Sal.	O_2	^{18}O	Nut.	Chl.	Comments
1		25		1902	24.23	3.483	32.885				✓	90		
2		20		1903	19.39	4.008	32.343					89		
3		15		1903	13.93	4.102	32.209					88		
4		10		1904	9.94	4.108	32.197		P07 #1			87		
5		5		1904	5.61	4.109	32.201					86		? (P07? 31.78492 ?) OR 32.06449 ? wrong depths
6		0		1905	2.68	4.104	32.196					85		NO HPLC
7														
8														
9														
10														
11														
12														