

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 269			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
006223	1	N	171	15	2	W	26	SEP	91	0435	3.7	3.0	15	10	33	52	0			4	TEST

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

at Surface:

Press. 3077.019

Temp. 6859

Cond. 3077.02

Times ID/Time  
 Data on 0433  
 at Surface 0433  
 Start Down 0433  
 at Bottom 0435  
 Start Up 0436  
 at Surface 0441  
 Data Off 0441

Data Location

Floppy Number Test 1-

Remarks

Test

Pos.	Bot. #	Trip	Time		Monitor Values Sal				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1	1		0435	✓	35.03	-0.72	31.2992		2					Test 1
2			0435		35.33	-0.80	31.2999		2					bottles 1, 8(??), 9 did not close
3			0436		30.85	1.96	31.1250		2					Test 2
4			0436		30.94	2.24	31.1237							
5			0437		24.82	3.51	31.0230		2					Test 3
6			0437		24.57	3.51	31.0234							
7			0438		20.14	3.53	31.0173		3					
8			0438		20.04	3.53	31.0171							
9			0439		15.31	4.37	30.9301							
10			0439		15.45	4.24	30.9431							
11			0440		10.04	4.54	30.9054							
12			0440		5.84	4.54	30.9061							

13 on deck 0441

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 271			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	SS.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
16	45.5	N	168	52.4	W	28	SEP	91	03	47	4.0	3.1	11	10	330	20				43	5A5

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press.

Temp.

Cond.

6874.929  
1 3076.908  
2 32463.226Surface:  
3247.877

7244.375

8845.144

Times  
Data on \_\_\_\_\_  
at Surface \_\_\_\_\_  
Start Down \_\_\_\_\_  
at Bottom \_\_\_\_\_  
Start Up \_\_\_\_\_  
at Surface \_\_\_\_\_  
Data Off \_\_\_\_\_

JD/Time

Data Location  
Floppy Number

Remarks

Test 1 -  
tape 0820

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1								32.873	35.16			1		
2												2		
3												NO		
4												4		
5												NO		
6												6		
7												7		
8												8		
9								29.6460	35.16			1		
10								29.6450	35.16			1		
11														
12														

SAS.mrk:

mark number 1, system time is Sat Sep 28 03:47:47 1991  
35.02 1.2940 32.8873 26.3233 1452.76 2373  
mark number 2, system time is Sat Sep 28 03:48:04 1991  
35.16 1.2940 32.8831 26.3249 1452.75 2731  
mark number 3, system time is Sat Sep 28 03:48:46 1991  
30.50 1.4805 32.8651 26.2933 1453.49 3733  
mark number 4, system time is Sat Sep 28 03:49:29 1991  
25.67 1.4680 32.7653 26.2187 1453.22 4815  
mark number 5, system time is Sat Sep 28 03:50:09 1991  
20.17 2.2099 32.4203 25.8902 1455.96 5772  
mark number 6, system time is Sat Sep 28 03:50:41 1991  
14.39 6.3094 30.2033 23.7233 1470.16 6522  
mark number 7, system time is Sat Sep 28 03:51:12 1991  
10.24 6.4646 29.8537 23.4331 1470.28 7284  
mark number 8, system time is Sat Sep 28 03:51:43 1991  
5.20 6.5271 29.6519 23.2677 1470.18 8007  
mark number 9, system time is Sat Sep 28 03:52:31 1991  
3.29 6.5302 29.6460 23.2626 1470.16 9159

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 271			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
002	6544	2	N	16845	0	W	28	SEP	91	0524	4	1	4	0	11		000	26		54	SA6

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32466

32482

Temp. 6920

7265

Cond. 3076

8849

Times  
Data onJD/Time  
0518

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

0524

0530

Data Location  
Floppy Number

Remarks

TAPE 0830-1947

Pos.	Bot. #	Trip Depth	Time at depth trip	Monitor Values				Sample Bottle Numbers					Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	Sal.	Nut	Comments
1	49																			
2	45																			
3	40																			
4	35																			
5	30																			
6	25																			
7	20																			
8	15																			
9	10																			
10	5																			
11	58																			
12																				

sa6.mrk:

mark number 1, system time is Sat Sep 28 05:17:58 1991  
48.47 1.6303 33.3250 26.6569 1455.05 2833

mark number 2, system time is Sat Sep 28 05:18:37 1991  
45.48 1.6395 33.3169 26.6498 1455.03 3837

mark number 3, system time is Sat Sep 28 05:19:12 1991  
40.57 1.7967 33.2260 26.5656 1455.53 4668

mark number 4, system time is Sat Sep 28 05:19:46 1991  
36.40 1.8497 33.1441 26.4961 1455.59 5490

mark number 5, system time is Sat Sep 28 05:20:22 1991  
29.63 3.6313 32.4573 25.7994 1462.28 6336

mark number 6, system time is Sat Sep 28 05:20:54 1991  
24.54 5.2398 31.9740 25.2509 1468.25 7104

mark number 7, system time is Sat Sep 28 05:21:25 1991  
20.81 5.5240 31.8277 25.1029 1469.16 7860

mark number 8, system time is Sat Sep 28 05:22:05 1991  
15.50 6.6010 29.9295 23.4774 1470.29 8308

mark number 9, system time is Sat Sep 28 05:22:36 1991  
9.54 6.6015 29.9251 23.4738 1470.39 9546

Sal.

Nut

Sal

Nut

B1

10

COMPUTER HANGUP - LAST 2 BOTTLE TRIPS

NOT INCLUDED IN .MRK FILE

11

12

13

14

15

16

17

18

Sal

B9

29.9251

29.92071

33.1441

33.31363

Ship: SURVEYOR

CHOEX / ICE	5 40
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485

Consec. Cast #			Latitude Deg. Min.			Longitude Deg. Min.			Date JD = 27 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.
003	65	43.8	N	168	37.8	W	28	SEP	91	06	41	4.5	3.8	11	1	10	8	356	24	—	—	—	53	5A7	

CTD Type & SN	SEABIRD	Monitor Checks		Times	JD/Time	Data Location	Remarks
Press. SN		on Deck:		Data on	0634	Floppy Number	TAPE 1955 - and -
Temp. SN		at Surface:		at Surface	0634		forgot to turn it off
Cond. SN		Press.	3246.6	Start Down	0634		Program hung up -
		Temp.	6918.3	at Bottom	0635		only got 50m on mak file
		Cond.	3076.9	Start Up			
				at Surface			
				Data Off			

Pos.	Bot. #	Trip	Time	Monitor Values				Sample Bottle Numbers					Comments
				Depth	at depth	trip	Press.	Temp.	Sal.	O <sub>2</sub>	180	Nut.	
1	1	50	0635		50.58	1.763	33.2598			1	19	5	
2													50
3											20		pot log 45
4											21	-	3 6588.026 8754.234 32550.469 40
5											22		659.279 8741.734 32540750 35
6											23		6651.156 8757.429 32532820 30
7											24		6910.237 8904.643 32503.527 25
8											25		6945.984 8913.569 32514.042 20
9											26		7209. — 8914.208 32503445 15
10											27		7308.429 8891.026 32493.574 10
11											28		7317.304 8890.336 32484.667 5
12											29		7316.772 8889.906 32471.097 0



Ship: SURVEYOR

CHOEX / ICE

48+5

Consec. Cast #	Latitude		Longitude		Date JD = 271			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	SS.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
046542.8	N	16829.1	W	28	SEP	91	08	13	5	1	4	8	11	-10	342	19				53	3A8

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

at Surface:

Press. 32465.996

Temp. 6973.777

Cond. 3076.945

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

17

17

17

Data Location

Floppy Number 5A5,6,7

Remarks Tape 5A / Side 2

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		46							SAB		3A8 46m	30		sa8, mks
2		40					33.0813		SAB			31		mark number 1, system time is Sat Sep 28 08:13:16 1991
3		35					23.0707		SAB			32		46.94 1.3464 33.1766 26.5224 1455.79 3336
4		30										33		mark number 2, system time is Sat Sep 28 08:14:09 1991
5		25										34		40.60 1.3646 33.0813 26.4447 1455.64 4602
6		20										35		mark number 3, system time is Sat Sep 28 08:14:47 1991
7		15										36		35.68 1.9229 33.0649 26.4273 1455.79 5517
8		10					29.6071		SAB			37		mark number 4, system time is Sat Sep 28 08:15:23 1991
9		5					29.6062		SAB			38		30.50 2.8729 32.7336 26.0872 1459.41 6375
10		0										39		mark number 5, system time is Sat Sep 28 08:15:57 1991
11														25.41 4.7752 32.3052 25.5640 1466.79 7135
12														mark number 6, system time is Sat Sep 28 08:16:27 1991
														20.19 5.2239 32.1010 25.3531 1463.23 7905
														mark number 7, system time is Sat Sep 28 08:16:57 1991
														15.35 7.2580 29.6076 23.1415 1473.17 8625
														mark number 8, system time is Sat Sep 28 08:17:30 1991
														10.19 7.2645 29.6071 23.1403 1473.11 9405
														mark number 9, system time is Sat Sep 28 08:18:01 1991
														5.12 7.2609 29.6082 23.1415 1473.02 10149
														mark number 10, system time is Sat Sep 28 08:18:32 1991
														3.11 7.2604 29.6077 23.1412 1472.98 10893

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 271			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
05	G541.7	N	16819.4	W	28	SEP	91	09	23	S	S	S	S	11		34	21	9		53	5A9

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32466

32470

Temp. 6990

7366

Cond. 3076

8902

 Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

0918

0923

0931

Data Location  
Floppy Number

Remarks

TAPE

2230-3211

Pos.	Bot. #	Trip Depth	Time at depth trip	Monitor Values				Sample Bottle Numbers					Comments	
				Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.		
1		48				33.1768		509		509	40		NO TRIP ON #9	
2		45				33.1329		40m		40m				
3		40									41			
4		35									42		COMPUTER HANGUP ON UPGRADE	
5		30									43			
6		25									44		BOTTLES 10 + 11 NOT ON - MPR FILE	
7		20									45			
8		15									46		SA9.mrk:	
9		10									47			
10		5									48		mark number 1, system time is Sat Sep 28 09:17:01 1991	
11		50									49			
12											50		mark number 2, system time is Sat Sep 28 09:17:53 1991	
													43.41 1.8753 33.1768 26.5205 1455.94 2883	
													mark number 3, system time is Sat Sep 28 09:18:30 1991	
													45.03 1.8717 33.1033 26.4619 1455.77 4134	
													mark number 4, system time is Sat Sep 28 09:19:18 1991	
													40.35 1.7466 33.0097 26.3953 1455.02 5028	
													mark number 5, system time is Sat Sep 28 09:20:00 1991	
													35.31 1.7265 33.0029 26.3913 1454.85 6156	
													mark number 6, system time is Sat Sep 28 09:20:33 1991	
													30.33 1.6828 32.9040 26.3156 1454.43 7173	
													mark number 7, system time is Sat Sep 28 09:21:10 1991	
													25.07 2.6658 32.1579 25.6446 1457.63 7962	
													mark number 8, system time is Sat Sep 28 09:21:46 1991	
													19.21 2.9138 32.0096 25.5059 1458.47 8850	
													mark number 9, system time is Sat Sep 28 09:22:25 1991	
													15.04 5.6374 31.7309 25.0523 1469.46 9711	
													9.77 7.2110 29.7222 23.2376 1473.04 10653	

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 271			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
066541	0	N	168	10.8	28	SEP	91	10	35	5.5	5.0	12			000	10				25	SA10

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on <u>1034</u>	Data Location Floppy Number _____	Remarks <u>TAPE</u> <u>0010 - 0915</u>
Press. SN _____	Press. <u>32466</u>	<u>32469</u>	at Surface _____	Start Down _____	_____	
Temp. SN _____	Temp. <u>6998</u>	<u>7240</u>	at Bottom <u>1035</u>	Start Up _____	_____	
Cond. SN _____	Cond. <u>3076</u>	<u>8785</u>	at Surface _____	Data Off <u>1040</u>	_____	

[illegible]

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 272			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.						
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																		
07	68	56	7	N	16	8	55	9	W	29	SEP	91	08	01	1.8	1.5	14			07	110					54	SC08A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

at Surface:

Press. 32464

32469

Temp. 6677

Cond. 3076

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

0801

0808

Data Location

Floppy Number

Remarks TAPE

0925-1905

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	18O	Nut.	Chl.	
1		49					32.5777		✓		✓	56		PROGRAM CRASH - MRK FILE ONLY ON FIRST 8 BOTTLES
2		45					32.5539					57		1 BOTTLE DID NOT TRIP - LAST ONE?
3		40										58		
4		35										59		
5		30										60		SC08A.mrk:
6		25										61		mark number 1, system time is Sun Sep 29 07:55:30 1991
7		20										62		49.19 0.7383 32.5777 26.1132 1450.07 2340
8		15										63		mark number 2, system time is Sun Sep 29 07:56:12 1991
9		10										64		44.72 1.8601 32.1502 25.6991 1454.46 3363
10		5										65		mark number 3, system time is Sun Sep 29 07:56:45 1991
11		5										66		40.15 2.2411 32.1123 25.6411 1456.01 4155
12		5												mark number 4, system time is Sun Sep 29 07:57:16 1991
														34.20 3.7006 31.8446 25.3053 1461.35 4373
														mark number 5, system time is Sun Sep 29 07:57:45 1991
														30.28 4.6646 30.9197 24.4770 1464.64 5571
														mark number 6, system time is Sun Sep 29 07:58:15 1991
														24.69 4.6881 30.7627 24.3501 1464.44 6297
														mark number 7, system time is Sun Sep 29 07:58:46 1991
														19.53 4.6423 30.6079 24.2320 1463.97 7035
														mark number 8, system time is Sun Sep 29 07:59:14 1991
														14.70 4.5856 30.3476 24.0313 1463.33 7704



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
086856	3	N	16829	2	W	29	SEP	91	09	23	2.0	1.9	13		085	16				53	SC 08 B

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

Press.

Temp.

Cond.

at Surface:

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

Data Location

Floppy Number

Remarks

TAPE  
1915 - 2607

Pos.	Bot. #	Trip	Time		Monitor Values				Sample Bottle Numbers					Comments
		Depth	at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		48					32.0685					67		PROGRAM ACTUALLY RAN TO COMPLETION - AMAZING
2		45					32.0260		✓			68		SCOREB.mrk:
3		40										69		mark number 1. system time is Sun Sep 29 09:17:25 1991
4		35										70		43.97 1.7400 32.0685 25.6419 1453.89 2034
5		30										71		mark number 2. system time is Sun Sep 29 09:18:11 1991
6		25										72		45.10 1.3137 32.0292 25.6054 1454.10 3122
7		20										73		mark number 3. system time is Sun Sep 29 09:18:40 1991
8		15										74		39.21 4.5322 31.2350 24.7406 1464.64 3813
9		10					30.5343		✓			75		mark number 4. system time is Sun Sep 29 09:19:05 1991
10		5					30.5423					76		34.12 4.9310 30.8172 24.3631 1465.38 4416
11		5										77		mark number 5. system time is Sun Sep 29 09:19:30 1991
12														29.42 4.8151 30.6716 24.2650 1464.93 5013
														mark number 6. system time is Sun Sep 29 09:19:53 1991
														24.49 4.6692 30.6155 24.2354 1464.18 5574
														mark number 7. system time is Sun Sep 29 09:20:18 1991
														19.69 4.6453 30.5932 24.2240 1463.98 6159
														mark number 8. system time is Sun Sep 29 09:20:43 1991
														14.29 4.5476 30.5434 24.1904 1463.41 6759
														mark number 9. system time is Sun Sep 29 09:21:07 1991
														9.51 4.5237 30.5343 24.1850 1463.24 7335
														mark number 10. system time is Sun Sep 29 09:21:33 1991
														4.06 4.5296 30.5344 24.1850 1463.16 7962
														mark number 11. system time is Sun Sep 29 09:22:03 1991
														2.00 4.5407 30.5192 24.1718 1463.15 8697

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 272			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
09	68	56.19 N	167	59.7 W	29	SEP	91	11	17	2.4	1.4	13			088	17				51	SC 09A

CTD Type & SN <u>SEABIRD</u>	Monitor Checks on Deck:	at Surface:	Times Data on <u>1116</u>	Data Location Floppy Number _____	Remarks <u>TAPE</u>
Press. SN _____	Press. <u>32463</u>	<u>32466</u>	at Surface _____		<u>2617 - 3431</u>
Temp. SN _____	Temp. <u>6916</u>	<u>6929</u>	Start Down _____		
Cond. SN _____	Cond. <u>8603</u>	<u>8710</u>	at Bottom <u>1117</u>		
			Start Up _____		
			at Surface _____		
			Data Off <u>11 25</u>		

[illegible]

Ship: SURVEYOR

CHOEX / ICE

43

Consec. Cast #	Latitude		Longitude		Date JD = 272			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
106856	21	N	16729	60	W	29	SE	91	12	43	2.0	1.5	2	10	0	25	130			48	5C09B

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

at Surface:

Press. 32464.0

Temp. 6901.3

Cond. 3076.8

Times

JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

Data Location

Floppy Number #1

SA5-

Remarks

Tape 00 to 10:01  
Pros lost 15 m

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1	1	40								✓		89		
2	2	35										90		
3	3	30										91		
4	4	25										92		
5	5	20					30.7815 30.7879		SCAB 25			93		
6	6	15										94		Program crashed - mak file only to 20m.
7	7	10										95		
8	8	5										96		
9	9	50										97		
10														
11														
12														

SC09B.mrk:

mark number 1. system time is Sun Sep 29 12:43:56 1991  
41.04 3.3326 31.2226 25.4003 1460.50 1890  
mark number 2. system time is Sun Sep 29 12:44:38 1991  
35.65 4.2966 31.6304 25.0730 1464.11 2904  
mark number 3. system time is Sun Sep 29 12:45:14 1991  
30.05 4.1455 30.7833 24.4204 1462.30 3759  
mark number 4. system time is Sun Sep 29 12:45:39 1991  
24.51 4.1433 30.7827 24.4196 1462.20 4362  
mark number 5. system time is Sun Sep 29 12:46:05 1991  
20.13 4.1334 30.7315 24.4196 1462.03 4977

Ship: SURVEYOR

CHOEX / ICE

42

Consec. Cast #	Latitude		Longitude		Date JD = 272			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
11	68	56.3	N	166	59.3	W	29	SEP	91	14	10	2.1	1.5	12	-	100	65	100	+	476C10A	

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32464.5 32468

Temp. 6492.3 6839

Cond. 3076.9P 8679

Times  
Data on 14 09  
at Surface 14 09  
Start Down 14 09  
at Bottom 14 10  
Start Up 14 11  
at Surface 14 14  
Data Off 14 14

Data Location  
Floppy Number 3A5-

Remarks Tape 10:16-16:08

Program hung up  
after last mark  
(I waited till the last  
minute to turn on deck unit)

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		39									5C10A	98		SC10A.mrk:
2		35										99		mark number 1. system time is Sun Sep 29 14:10:42 1991
3		30										100		39.65 3.7011 31.7356 25.2187 1461.80 2172
4		25					30.9702					101		mark number 2. system time is Sun Sep 29 14:11:09 1991
5		20					31.0444		B4			102		35.38 3.6705 31.0632 24.6864 1460.74 2311
6		15							No trip			103		mark number 3. system time is Sun Sep 29 14:11:40 1991
7		10					30.7236					104		30.54 3.6782 30.9905 24.6279 1460.60 3553
8		5					30.7372					105		mark number 4. system time is Sun Sep 29 14:12:08 1991
9		0										106		25.22 3.6845 30.9703 24.6116 1460.51 4221
10														mark number 5. system time is Sun Sep 29 14:12:35 1991
11														20.39 3.6343 30.9542 24.5933 1460.41 4369
12														mark number 6. system time is Sun Sep 29 14:13:05 1991
														15.33 3.8373 30.7246 24.4019 1460.63 5586
														mark number 7. system time is Sun Sep 29 14:13:33 1991
														10.44 3.8345 30.7236 24.4014 1460.59 6270
														mark number 8. system time is Sun Sep 29 14:14:05 1991
														5.59 3.8334 30.7233 24.4012 1460.51 7029
														mark number 9. system time is Sun Sep 29 14:14:33 1991
														2.72 3.8350 30.7234 24.4011 1460.47 7704

Ship: SURVEYOR

CHOEX / ICE

30w

Consec. Cast #	Latitude		Longitude		Date JD = 272			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
12	48	55.5	166	29.4	29	SEP	91	15	30	1.2	0.8	11	-	10	06	51	3	-	-	355	CL08

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32465.6

32470

Temp. 6219.1

6822

Cond. 3076.99

8689

Times

JD/Time

Data on \_\_\_\_\_  
 at Surface \_\_\_\_\_  
 Start Down \_\_\_\_\_  
 at Bottom \_\_\_\_\_  
 Start Up \_\_\_\_\_  
 at Surface \_\_\_\_\_  
 Data Off \_\_\_\_\_

Data Location  
Floppy Number

Remarks Tape 16:22-25:00

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		28										107		SE108, mark:
2		25					31.1750		✓			108		mark number 1, system time is Sun Sep 29 15:30:14 1991
3		20					31.1941					109		28.64 3.6675 31.3784 24.9374 1461.02 2445
4		15										110		mark number 2, system time is Sun Sep 29 15:30:44 1991
5		10					30.9301					111		25.55 3.4153 31.1750 24.7930 1459.64 3174
6		5					31.0320		✓			112		mark number 3, system time is Sun Sep 29 15:31:18 1991
7		0										113		20.42 3.4474 31.1517 24.7765 1459.66 3990
8														mark number 4, system time is Sun Sep 29 15:31:53 1991
9														15.76 3.5971 31.0460 24.6792 1460.03 4827
10														mark number 5, system time is Sun Sep 29 15:32:28 1991
11														10.67 3.7059 30.9301 24.5772 1460.31 5661
12														mark number 6, system time is Sun Sep 29 15:33:05 1991
														5.23 3.6982 30.9242 24.5732 1460.19 6555
														mark number 7, system time is Sun Sep 29 15:33:39 1991
														2.33 3.7011 30.9230 24.5719 1460.15 7356



Ship: SURVEYOR

CHOEX / ICE

25

Consec. Cast #	Latitude		Longitude		Date JD = <u>272</u>			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.																																	
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																																												
	1	3	6	8	5	4	8			1	6	6	2	0	7			2	9	5	E	P	9	1	1	6	1	7			1	1	5	1	0	1	1	1	0	8	0	1	0					3	0	6	C	1	1

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on _____ JD/Time _____	Data Location Floppy Number _____	Remarks <u>Tape 25:00-</u>
Press. SN _____	Press. <u>32464.2</u>	<u>32470.</u>	at Surface _____	_____	_____	<u>Program died</u>
Temp. SN _____	Temp. <u>6448</u>	<u>6844</u>	at Bottom _____	_____	_____	<u>as soon as we started</u>
Cond. SN _____	Cond. <u>3076.</u>	<u>8743.9</u>	Start Up _____	_____	_____	<u>down. We came back</u>
			at Surface _____	_____	_____	<u>up, C Alt Del &amp; Restart</u>
			Data Off _____	_____	_____	<u>worked OK =&gt; bottle 3</u>

[illegible]

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 274			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
1471	09.2	N	15956.8	W	01	OCT	91	10	16	-2.4	-2.6	03			108	13				70	SK3A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press.

Temp.

Cond.

Times  
Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

1013

1016

1022

Data Location

Floppy Number SK3B-

Remarks

TAPE

0010 - 0924

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.
1		62					33.3616		SK3A		✓	120	
2		50					33.3673		B1			121	
3		45										122	
4		40										123	
5		35										124	
6		30										125	
7		25										126	
8		20										127	
9		15										128	
10		10					29.4774		SK3A			129	
11		5					29.5169		B10			130	
12		SFC										131	

sk3a.mrk:

mark number 1, system time is Tue Oct 01 10:13:27 1991

61.63 -1.7001 33.3616 26.8464 1439.95 2481

mark number 2, system time is Tue Oct 01 10:15:25 1991

49.48 -1.6978 33.3477 26.8351 1439.74 5322

mark number 3, system time is Tue Oct 01 10:16:01 1991

44.32 -1.6956 33.3392 26.8281 1439.66 6183

mark number 4, system time is Tue Oct 01 10:16:29 1991

39.01 -1.6528 33.0828 26.6186 1439.43 6852

mark number 5, system time is Tue Oct 01 10:16:58 1991

33.57 -1.4504 32.4488 26.0987 1439.45 7545

mark number 6, system time is Tue Oct 01 10:17:25 1991

28.57 -1.1956 31.8969 25.6443 1439.84 8193

mark number 7, system time is Tue Oct 01 10:17:51 1991

23.63 -0.7565 31.1597 25.0345 1440.84 8811

mark number 8, system time is Tue Oct 01 10:18:19 1991

18.71 -0.9012 30.9072 24.8344 1439.74 9471

mark number 9, system time is Tue Oct 01 10:18:45 1991

13.23 -1.1565 29.9679 24.0799 1437.17 10086

mark number 10, system time is Tue Oct 01 10:19:09 1991

7.94 -1.3460 29.4774 23.6859 1435.51 10680

mark number 11, system time is Tue Oct 01 10:19:38 1991

3.07 -1.3390 29.4187 23.6382 1435.39 11355

mark number 12, system time is Tue Oct 01 10:20:18 1991

2.30 -1.2941 29.4210 23.6393 1435.60 12324

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 274			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
157	104.6	N	159	48.9	W	01	OCT	91	11	32	-2.8	-2.9	03		11	012				58	SK3B

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32462

Temp. 6535

Cond. 3077

Times  
Data on

at Surface

Start Down

at Bottom 1132

Start Up

at Surface

Data Off

JD/Time

Data Location

Floppy Number SK3B-

Remarks

TAPG  
0935-1754

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.
1		53					33.3756		SK3B			132	
2		50					33.3771		81			133	
3		45										134	
4		40										135	
5		35										136	
6		30										137	
7		25										138	
8		20										139	
9		15										140	
10		10							?			141	
11		5										142	
12		SF										143	

## Comments

SK3B.mrk:

mark number 1, system time is Tue Oct 01 11:30:31 1991  
55.57 -1.6772 33.3756 26.8572 1439.98 3351  
mark number 2, system time is Tue Oct 01 11:31:10 1991  
50.21 -1.6777 33.3756 26.8573 1439.89 4287  
mark number 3, system time is Tue Oct 01 11:31:45 1991  
45.20 -1.6764 33.3718 26.8541 1439.81 5127  
mark number 4, system time is Tue Oct 01 11:32:14 1991  
39.60 -1.6283 33.1970 26.7109 1439.71 5820  
mark number 5, system time is Tue Oct 01 11:32:44 1991  
34.56 -1.5252 32.7131 26.3152 1439.47 6558  
mark number 6, system time is Tue Oct 01 11:33:11 1991  
29.53 -1.3447 32.2086 25.9011 1439.56 7197  
mark number 7, system time is Tue Oct 01 11:33:37 1991  
24.98 -1.0013 31.9200 25.6575 1440.73 7821  
mark number 8, system time is Tue Oct 01 11:34:04 1991  
19.66 -0.9091 31.5553 25.3594 1440.59 8457  
mark number 9, system time is Tue Oct 01 11:34:29 1991  
14.87 -0.7792 30.1017 24.1791 1439.17 9057  
mark number 10, system time is Tue Oct 01 11:34:56 1991  
9.67 -0.7908 30.0939 24.1731 1439.02 9705  
mark number 11, system time is Tue Oct 01 11:35:20 1991  
4.65 -0.7964 30.0934 24.1728 1438.91 10287  
mark number 12, system time is Tue Oct 01 11:35:53 1991  
2.58 -0.7883 30.0932 24.1725 1438.92 11079

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #		Latitude		Longitude		Date JD = 274			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
		Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
	16	70	59.9	N	15941.1	10	10	1991	12	24	-2.8	-2.7	03	-	6	10P	13	-	-	-	67	SK2A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press. 32462

Temp. 62504

Cond. 3077

at Surface:

3246746

6142.3

8134.5

Times  
Data on \_\_\_\_\_  
at Surface \_\_\_\_\_  
Start Down \_\_\_\_\_  
at Bottom \_\_\_\_\_  
Start Up \_\_\_\_\_  
at Surface \_\_\_\_\_  
Data Off \_\_\_\_\_

JD/Time  
25Data Location  
Floppy Number SK3B -Remarks TAPE  
1800-2600

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.
1							33.4635		SK2A		✓	144	
2							33.4650		B1			145	
3							33.4517		SK2A			146	
4							33.4654		B3			147	
5												148	
6												149	
7												150	
8												151	
9												152	
10												153	
11												154	
12												155	

## Comments

SK2A.mrk:

mark number 1, system time is Tue Oct 01 12:24:43 1991  
61.41 -1.6930 33.4635 26.9290 1440.11 2193

mark number 2, system time is Tue Oct 01 12:25:38 1991  
49.63 -1.6924 33.4592 26.9256 1439.92 3531

mark number 3, system time is Tue Oct 01 12:26:01 1991  
44.51 -1.6932 33.4517 26.9195 1439.82 4071

mark number 4, system time is Tue Oct 01 12:26:22 1991  
39.84 -1.6927 33.4385 26.9087 1439.73 4572

mark number 5, system time is Tue Oct 01 12:26:42 1991  
34.46 -1.6498 33.0997 26.6323 1439.39 5061

mark number 6, system time is Tue Oct 01 12:27:02 1991  
29.44 -1.4030 32.6980 26.2998 1439.95 5532

mark number 7, system time is Tue Oct 01 12:27:21 1991  
24.13 -1.1068 32.0194 25.7411 1440.35 5991

mark number 8, system time is Tue Oct 01 12:27:40 1991  
19.44 -0.9120 30.5561 24.5504 1439.23 6447

mark number 9, system time is Tue Oct 01 12:28:01 1991  
14.24 -0.9517 30.5371 24.5360 1438.93 6933

mark number 10, system time is Tue Oct 01 12:28:13 1991  
9.38 -1.0062 30.4535 24.4698 1438.48 7236

mark number 11, system time is Tue Oct 01 12:28:34 1991  
5.14 -1.0271 30.4343 24.4547 1438.29 7740

mark number 12, system time is Tue Oct 01 12:29:01 1991  
2.41 -1.0228 30.4342 24.4545 1438.26 8379

Ship: SURVEYOR

CHOEX / ICE

51

Consec. Cast #	Latitude		Longitude		Date JD = 274			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.																																					
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																																																	
	1	7	7	0	5	6		5	N	1	5	9	3	3		5	W	0	1	O	C	T	9	1	1	3	1	5	-	3	.	0	-	3	.	2	0	2	-	4	1	0	P	1	3	-	-	-			5	6			S	K	2	A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32462.3

32467.1

Temp. 7066 ↓

6167.7

Cond. 3300 ↓

8161.6

Times

JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

Data Location

Floppy Number SK3B -

Remarks

2632 - end

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1							33.3361		SK2B		✓	156		
2							33.3398		81			157		
3												158		
4												159		
5												160		
6												161		
7												162		
8												163		
9												164		
10												165		
11												166		
12												167		

Comments

sk2b.mrk:

mark number 1, system time is Tue Oct 01 13:15:38 1991  
53.59 -1.5851 33.3361 26.8227 1440.33 2187  
mark number 2, system time is Tue Oct 01 13:16:05 1991  
50.23 -1.5841 33.3344 26.8213 1440.28 2835  
mark number 3, system time is Tue Oct 01 13:16:30 1991  
44.57 -1.5838 33.3349 26.8217 1440.19 3435  
mark number 4, system time is Tue Oct 01 13:16:52 1991  
39.54 -1.5793 33.3295 26.8172 1440.12 3960  
mark number 5, system time is Tue Oct 01 13:17:13 1991  
33.94 -1.5755 33.3250 26.8135 1440.05 4449  
mark number 6, system time is Tue Oct 01 13:17:32 1991  
29.29 -1.5501 33.2934 26.7871 1440.05 4905  
mark number 7, system time is Tue Oct 01 13:17:51 1991  
24.08 -1.1233 32.7891 26.3655 1441.31 5367  
mark number 8, system time is Tue Oct 01 13:18:09 1991  
19.01 -0.8499 31.0468 24.9459 1440.18 5799  
mark number 9, system time is Tue Oct 01 13:18:23 1991  
13.86 -0.8397 30.6331 24.6107 1439.58 6141  
mark number 10, system time is Tue Oct 01 13:18:44 1991  
9.48 -0.8341 30.5379 24.5335 1439.41 6621  
mark number 11, system time is Tue Oct 01 13:19:02 1991  
4.81 -0.8468 30.4889 24.4943 1439.21 7056  
mark number 12, system time is Tue Oct 01 13:19:29 1991  
1.34 -0.6467 30.4896 24.4890 1440.10 7695





Ship: SURVEYOR

CHOEX / ICE 23

Consec. Cast #	Latitude		Longitude		Date JD = 275			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
197048	2	N	17219	8	W	020	C491	1441		0.8	0.2	06	-	806	075	12	-	-		38	3F03

CTD Type & SN SEABIRD

Press. SN \_\_\_\_\_

Temp. SN \_\_\_\_\_

Cond. SN \_\_\_\_\_

Monitor Checks  
on Deck: at Surface:

Press. 32 32467.4

Temp. 6552 + 6794.9

Cond. 3400 ↓ 8708.7

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

Data Location  
Floppy Number

Remarks

Cassette 0011-0526

Noisy { but plug was not left in

[illegible]

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 275			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
207048	4	N	173	29	6	W	02	0	11	16	55	1	2	0	5	05	-	0	8	2	10	375104

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

Temp. 6425

Cond. 3143↓

32469.6

6813.9

8711.8

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data OffJD/Time  
1655Data Location  
Floppy Number

5K3A→

Remarks

Cassette 0545-1239

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.
1		33										184	
2		30										185	
3		25										186	
4		20										187	
5		15										188	
6		15										189	
7		10										190	
8		5										191	
9		5M											
10													
11													
12													

double trip 5 ←

→ dou

bottle  
beaker

sf04.mrk:

mark number 1, system time is Wed Oct 02 16:55:11 1991  
33.20 -0.0752 32.7903 26.3261 1446.37 2433  
mark number 2, system time is Wed Oct 02 16:55:55 1991  
30.64 0.3802 32.6418 26.1841 1448.23 3483  
mark number 3, system time is Wed Oct 02 16:56:38 1991  
25.53 4.0494 31.4159 24.9317 1462.63 4521  
mark number 4, system time is Wed Oct 02 16:57:12 1991  
20.64 3.7143 31.2026 24.7932 1460.86 5325  
mark number 5, system time is Wed Oct 02 16:57:50 1991  
15.44 3.6465 31.1786 24.7803 1460.46 6240  
mark number 6, system time is Wed Oct 02 16:58:02 1991  
15.37 3.6443 31.1780 24.7800 1460.45 6528  
mark number 7, system time is Wed Oct 02 16:58:48 1991  
10.41 3.6487 31.1784 24.7799 1460.39 7632  
mark number 8, system time is Wed Oct 02 16:59:19 1991  
5.44 3.6432 31.1775 24.7797 1460.28 8367  
mark number 9, system time is Wed Oct 02 16:59:51 1991  
2.85 3.6389 31.1778 24.7803 1460.22 9141

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 275			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.											
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																							
21	70	53	00	N	1	7	4	1	4	70	W	02	0	2	0	7	9	1	20	24	1	2	0	6	05						60	SF05

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

32469

Temp. 6923

6809

Cond. 3816

8711

 Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

2024

Data Location  
Floppy Number

Remarks

TAPE  
1250-2226

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		SS	-NO TRIP											NO TRIP ON BOTTLE #1
2		50												SF05.mrk:
3		40												mark number 1, system time is Wed Oct 02 20:21:56 1991
4		35												<del>05.02</del> -0.1015 32.7713 26.3120 1446.58 1971
5		30												mark number 2, system time is Wed Oct 02 20:22:49 1991
6		25												50.25 -0.1037 32.7663 26.3081 1446.48 3243
7		20												mark number 3, system time is Wed Oct 02 20:23:39 1991
8		15												40.08 0.9500 32.4530 26.0007 1450.72 4449
9		10												mark number 4, system time is Wed Oct 02 20:24:20 1991
10		S												35.18 3.9012 31.8816 25.3160 1462.76 5433
11		SFC												mark number 5, system time is Wed Oct 02 20:24:46 1991
12														29.92 3.7079 31.6909 25.1824 1461.62 6051
														mark number 6, system time is Wed Oct 02 20:25:23 1991
														25.23 3.6041 31.6095 25.1271 1461.00 6939
														mark number 7, system time is Wed Oct 02 20:25:54 1991
														19.55 3.4805 31.5175 25.0649 1460.26 7671
														mark number 8, system time is Wed Oct 02 20:26:22 1991
														14.79 3.6198 31.2122 24.8094 1460.38 8337
														mark number 9, system time is Wed Oct 02 20:26:53 1991
														9.99 3.6201 31.2121 24.8093 1460.30 9084
														mark number 10, system time is Wed Oct 02 20:27:30 1991
														4.20 3.6635 31.2109 24.8044 1460.39 9975
														mark number 11, system time is Wed Oct 02 20:27:56 1991
														1.76 3.8351 31.2099 24.7879 1461.08 10605

3,11

65

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 275			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
2470	57	1	N	175	00	4	W	02	0	2	13	2	0	1	2	04				70	SF06

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

Temp. 6969

Cond. 3517

32467

6731

8681

 Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

2213

Data Location  
Floppy Number

Remarks

TAPE

2235-3036

Note - 12 may trip  
he fore 11

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.
1		65											
2		60											
3		50											
4		40											
5		35											
6		30											
7		25											
8		20											
9		15											
10		10											
11		5											
12		SC											

SF06.mrk:

mark number 1, system time is Wed Oct 02 22:11:05 1991

66.29 0.2909 33.2482 26.6775 1449.21 1893

mark number 2, system time is Wed Oct 02 22:11:47 1991

59.17 0.7167 33.1062 26.5397 1450.84 2895

mark number 3, system time is Wed Oct 02 22:12:20 1991

49.22 1.3734 32.8769 26.3149 1453.33 3681

mark number 4, system time is Wed Oct 02 22:12:56 1991

39.79 1.4795 32.8378 26.2765 1453.60 4539

mark number 5, system time is Wed Oct 02 22:13:25 1991

34.52 1.4289 32.8107 26.2580 1453.25 5241

mark number 6, system time is Wed Oct 02 22:13:50 1991

29.79 1.3051 32.7513 26.2184 1452.54 5829

mark number 7, system time is Wed Oct 02 22:14:14 1991

25.04 1.7655 32.6222 26.0839 1454.34 6414

mark number 8, system time is Wed Oct 02 22:14:39 1991

19.54 3.7995 31.8397 25.2922 1462.03 6999

mark number 9, system time is Wed Oct 02 22:15:02 1991

14.51 3.5975 31.6439 25.1550 1460.84 7563

mark number 10, system time is Wed Oct 02 22:15:25 1991

9.35 3.2682 31.4807 25.0541 1459.14 8106

mark number 11, system time is Wed Oct 02 22:15:47 1991

4.96 3.1150 31.4294 25.0263 1458.34 8646

mark number 12, system time is Wed Oct 02 22:16:17 1991

1.60 3.1177 31.4435 25.0372 1458.32 9363



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 276			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.									
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																					
23	71	01	61	N	17	54	4	6	24	03	0	C	T	91	01	33	2.0	1.4	03			09	90	9					54	SF07

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck:                      at Surface:		Times Data on _____	JD/Time _____	Data Location Floppy Number _____	Remarks <u>TAPE</u>
Press. SN _____	Press. <u>32463</u>	<u>32467</u>	Start Down _____	_____	_____	<u>3045 - 3725</u>	
Temp. SN _____	Temp. <u>7032</u>	<u>6642</u>	at Bottom <u>0133</u>	_____	_____	<u>Note - in air, 12</u>	
Cond. SN _____	Cond. <u>3510</u>	<u>8535</u>	Start Up _____	_____	_____	<u>sometimes trips before</u>	
			at Surface _____	_____	_____	<u>11</u>	
			Data Off _____	_____	_____		

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		53										215		mark number 1, system time is Thu Oct 03 01:31:20 1991 54.66 -1.5743 33.7883 27.1898 1441.02 1833
2		50										216		mark number 2, system time is Thu Oct 03 01:31:54 1991 49.32 -1.1773 33.6895 27.0974 1442.69 2646
3		45										217		mark number 3, system time is Thu Oct 03 01:32:21 1991 44.20 -1.0935 33.6251 27.0423 1442.91 3291
4		40										218		mark number 4, system time is Thu Oct 03 01:32:42 1991 39.45 -1.6582 33.4840 26.9448 1439.95 3801
5		35										219		mark number 5, system time is Thu Oct 03 01:33:04 1991 34.75 -1.3424 33.2722 26.7641 1441.10 4323
6		30										220		mark number 6, system time is Thu Oct 03 01:33:25 1991 29.36 -0.8330 33.1576 26.6543 1443.27 4836
7		25										221		mark number 7, system time is Thu Oct 03 01:33:46 1991 24.50 -0.4829 33.0098 26.5211 1444.63 5325
8		20										222		mark number 8, system time is Thu Oct 03 01:34:08 1991 18.89 2.8281 31.8156 25.3581 1457.84 5859
9		15										223		mark number 9, system time is Thu Oct 03 01:34:31 1991 13.92 2.5533 30.7068 24.4943 1455.12 6405
10		10										224		mark number 10, system time is Thu Oct 03 01:34:53 1991 9.36 2.4767 30.6925 24.4885 1454.69 6927
11		5										225		mark number 11, system time is Thu Oct 03 01:35:15 1991 4.20 2.4693 30.6905 24.4875 1454.57 7464
12	✓	SFC							✓			226		mark number 12, system time is Thu Oct 03 01:35:40 1991 1.55 2.4672 30.6866 24.4845 1454.52 8073

Ship: SURVEYOR

CHOEX / ICE

35

Consec. Cast #	Latitude		Longitude		Date JD = 276			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
247106	31	N	17630	19	W	03	03	09	01	01	01	003	-6	1	05	08				40	SF08

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks

on Deck:

at Surface:

Press. 32463.5

Temp. 6469 m

Cond. 3151 4

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

0309

Data Location

Floppy Number

Remarks

TAPE  
0010-0538

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		37										227		SFOB.mrk:
2		30										228		mark number 1, system time is Thu Oct 03 03:09:46 1991
3		25										229		37.71 -1.3466 33.0203 26.5597 1440.79 2121
4		20										230		mark number 2, system time is Thu Oct 03 03:10:29 1991
5		15										231		30.38 -0.8036 32.5294 26.1446 1442.58 3147
6		10										232		mark number 3, system time is Thu Oct 03 03:10:58 1991
7		5										233		24.60 -0.5439 32.4617 26.0803 1443.61 3855
8		SFL										234		mark number 4, system time is Thu Oct 03 03:11:23 1991
9														19.87 4.1897 31.3539 24.8688 1463.05 4449
10														mark number 5, system time is Thu Oct 03 03:11:51 1991
11														14.90 2.7318 30.6271 24.4171 1455.81 5121
12														mark number 6, system time is Thu Oct 03 03:12:18 1991
														9.92 2.6872 30.6144 24.4104 1455.52 5775
														mark number 7, system time is Thu Oct 03 03:12:48 1991
														5.53 1.8594 30.3487 24.2562 1451.46 6483
														mark number 8, system time is Thu Oct 03 03:13:14 1991
														2.18 1.8550 30.3458 24.2541 1451.38 7107

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 276			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
25	7	109.19N	176	59.72W	03	Oct	91	04	37	11.0	0.7	03	-	6	102	09	-	-	-	33	6F09

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

Monitor Checks	
on Deck:	at Surface:
Press. <u>32463.4</u>	<u>32469.1</u>
Temp. <u>63.89</u>	<u>62.97</u>
Cond. <u>3108</u>	<u>8183.5</u>

Times	JD/Time
Data on	0438
at Surface	
Start Down	
at Bottom	
Start Up	
at Surface	
Deep Off	

FD-302	1	0	2	0
Data Location Floppy Number _____ _____ _____				

7	7	7	7	3	3	3	F	0	9
Remarks <i>Tapo</i> 0548-1053									

[illegible]

Ship: SURVEYOR

CHOEX / ICE

32

Consec. Cast #	Latitude		Longitude		Date JD = 276			Time, GMT		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	70	41	92	N	178	35	14	E	03	00	79	14	15	-2	0	-2	9			260	12	37	SE05

CTD Type & SN SEABIRD		Monitor Checks on Deck:		at Surface:		Times Data on		JD/Time		Data Location Floppy Number		Remarks	
Press. SN		Press. 32461		32466		at Surface						TAPE	
Temp. SN		Temp. 6332		6225		Start Down						1300 - 1902	
Cond. SN		Cond. 3274		7933		at Bottom							
						Start Up							
						at Surface							
						Data Off							

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		34							✓			242		
2		30										243		SE05.mrk:
3		25										244		mark number 1, system time is Thu Oct 03 14:13:01 1991
4		20										245		36.30 -1.7232 33.8146 27.2152 1440.04 2331
5		15										246		mark number 2, system time is Thu Oct 03 14:14:01 1991
6		10										247		30.26 -1.7229 33.8120 27.2131 1439.94 3777
7		5										248		mark number 3, system time is Thu Oct 03 14:14:35 1991
8		SFC							?			249		25.14 -1.5784 33.3112 26.8023 1439.87 4581
9														mark number 4, system time is Thu Oct 03 14:15:02 1991
10														19.94 -0.9933 32.5941 26.2034 1441.60 5229
11														mark number 5, system time is Thu Oct 03 14:15:30 1991
12														15.70 1.1059 31.2286 25.0077 1449.41 5898
														mark number 6, system time is Thu Oct 03 14:15:59 1991
														10.09 2.1584 30.8845 24.6649 1453.56 6585
														mark number 7, system time is Thu Oct 03 14:16:28 1991
														5.12 -0.4292 27.9922 22.4649 1437.84 7281
														mark number 8, system time is Thu Oct 03 14:16:53 1991
														2.27 -0.4273 27.9801 22.4551 1437.79 7884

Ship: SURVEYOR										CHOEX / ICE																	
Consec. Cast #	Latitude				Longitude				Date JD = 276			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.		
	Deg.	Min.			Deg.	Min.			Day	Mo.	Yr.	Hr.	Min.														
27	70	29	66	N	1	78	29	32	E	03	0	79	16	06	-0.8	-1.5				320	14					49	SE 04
CTD Type & SN SEABIRD					Monitor Checks on Deck:					at Surface:					Times Data on		JD/Time	Data Location		Remarks							
Press. SN					Press. 32461					32465					at Surface			Floppy Number		TAPE							
Temp. SN					Temp. 6135					6224					at Bottom		1606			19/5 - 2555							
Cond. SN					Cond. 3178					7990					at Surface					Printed file on upstairs printer. Once met file printed, the computer put itself into print screen mode & kept dumping the screen - GPB uses interrupt 7, same as printer							
					Data Off																						

  

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		44										250		
2		40										251		
3		35							✓			252		
4		30										253		
5		25										254		
6		20										255		
7		15										256		
8		10										257		
9		5										258		
10		SFC							✓			259		
11														
12														

  

SE04.mrk:

mark number 1, system time is Thu Oct 03 16:03:59 1991  
44.56 -1.7479 33.8340 27.2316 1440.03 1738

mark number 2, system time is Thu Oct 03 16:04:41 1991  
40.52 -1.7470 33.8322 27.2302 1440.02 2805

mark number 3, system time is Thu Oct 03 16:05:10 1991  
34.79 -1.7476 33.8326 27.2305 1439.92 3489

mark number 4, system time is Thu Oct 03 16:05:35 1991  
29.77 -1.7472 33.8308 27.2290 1439.84 4039

mark number 5, system time is Thu Oct 03 16:06:03 1991  
25.09 -1.6530 33.6743 27.0993 1440.01 4755

mark number 6, system time is Thu Oct 03 16:06:29 1991  
19.79 -1.3208 32.8955 26.4578 1440.45 5391

mark number 7, system time is Thu Oct 03 16:06:54 1991  
14.38 -1.1090 32.4675 26.1044 1440.79 5973

mark number 8, system time is Thu Oct 03 16:07:15 1991  
9.58 0.2199 30.6475 24.5846 1444.49 6495

mark number 9, system time is Thu Oct 03 16:07:43 1991  
5.04 -0.2517 29.1261 23.3253 1440.19 7149

mark number 10, system time is Thu Oct 03 16:08:11 1991  
2.86 -0.4180 28.5616 22.9244 1438.62 7821



Ship: SURVEYOR

CHOEX / ICE

43

Consec. Cast #	Latitude		Longitude		Date JD = 276			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.																						
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																																		
28	7	01	7	8	N	1	78	16	8	E	03	0	0	9	1	2	0	0	6	-	0	3	-	0	8	0	4	-	3	2	6	4	1	5	-	-	-	4	8	5	E	0	3

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on <u>2005</u>	Data Location Floppy Number _____	Remarks <u>Cassette 2610-3132</u>
Press. SN _____	Press. <u>32461.6</u>	<u>32462.7</u>	at Surface _____	Start Down _____	_____	
Temp. SN _____	Temp. <u>6154</u>	<u>6230</u>	at Bottom _____	Start Up _____	_____	
Cond. SN _____	Cond. <u>3076.</u>	<u>8042.9</u>	at Surface _____	Data Off _____	_____	

[illegible]

Ship: SURVEYOR

CHOEX / ICE

41 m

Consec. Cast #	Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	SS.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
297	005.5	N	178	06.5	E	03	Oct	91	21	43	-1.2	-1.4	05	-3	256	22				46	SE02

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32461.996

32466

Temp. 6426 ↓

6240.6

Cond. 2115.8

Times JD/Time  
Data on 44

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

Data Location  
Floppy Number

Remarks

Cassette 3156-3739

Plug left in

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		41									✓	269		
2		35							✓			270		NOT really good spot
3		30										271		
4		25										272		se02.mrk:
5		20										273		mark number 1, system time is Thu Oct 03 21:43:44 1991
6		25										274		41.35 -1.7147 33.7250 27.1421 1440.04 2319
7		10										275		mark number 2, system time is Thu Oct 03 21:44:12 1991
8		5										276		35.36 -1.6886 33.5258 26.9795 1439.80 2979
9		58										277		mark number 3, system time is Thu Oct 03 21:44:38 1991
10														30.90 -1.6527 33.4590 26.9244 1439.81 3609
11														mark number 4, system time is Thu Oct 03 21:45:05 1991
12														24.77 -1.4331 33.0411 26.5791 1440.19 4257
														mark number 5, system time is Thu Oct 03 21:45:30 1991
														20.09 -1.0640 32.5966 26.2077 1441.27 4839
														mark number 6, system time is Thu Oct 03 21:45:52 1991
														15.00 -0.0631 30.8647 24.7715 1443.56 5382
														mark number 7, system time is Thu Oct 03 21:46:17 1991
														10.30 -0.3554 29.5557 23.7254 1440.36 5976
														mark number 8, system time is Thu Oct 03 21:46:48 1991
														6.17 -0.3565 29.5461 23.7176 1440.28 6723
														mark number 9, system time is Thu Oct 03 21:47:18 1991
														2.11 -0.3556 29.5505 23.7212 1440.23 7440

Ship: SURVEYOR

CHOEX / ICE

39m

Consec. Cast #	Latitude		Longitude		Date JD = 277			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
306952.9	N	17954.0	E	04	Oct	91	02	46	-	1.3	-	2.0	008	-	2	95	24			44	SE01

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press.

Temp.

Cond.

at Surface:

68.6

6031

6225.6

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

0244

0246

0248

Data Location  
Floppy Number

Remarks

Cassette 3752-end

3182, 1eakers

3034 (~ p.3024)

Pos.	Bot. #	Trip	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		41										278		se01.mrk:
2		35										279		mark number 1, system time is Fri Oct 04 02:42:28 1991
3		30										280		41.55 -1.3951 33.2691 26.7631 1440.95 1812
4		25										281		mark number 2, system time is Fri Oct 04 02:43:00 1991
5		20										282		34.48 -0.9165 33.0597 26.5780 1442.83 2583
6		15										283		mark number 3, system time is Fri Oct 04 02:43:20 1991
7		10										284		29.41 -0.4637 32.8602 26.3994 1444.60 3078
8		5										285		mark number 4, system time is Fri Oct 04 02:43:40 1991
9		54										286		23.36 -0.3705 32.8472 26.3850 1444.92 3543
10														mark number 5, system time is Fri Oct 04 02:43:59 1991
11														19.37 -0.3143 32.8002 26.3446 1445.05 3993
12														mark number 6, system time is Fri Oct 04 02:44:20 1991

Ship: SURVEYOR

CHOEX / ICE

95

Consec. Cast #	Latitude		Longitude		Date JD = 277			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
31	67	59.59 N	173	59.21 W	04	Oct	91	19	39	0.5	-0.9	13	-	10	32	50	8	+		50	SC02A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

32467.8

Temp. 6232

6731.6

Cond. 3235↓

8618.13

Times  
Data on JD/Time  
at Surface 1938  
Start Down  
at Bottom 1939  
Start Up  
at Surface  
Data Off

Data Location  
Floppy Number

SE d SC (W)

Remarks

Cassette 0018-0623

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		45										288		
2		40										289		
3		35										290		
4		30										291		
5		25										292		
6		20										293		
7		15										294		
8		10										295		
9		5										296		
10		5h										297		
11														
12														

sc02a.mrk: L.L. 0

mark number 1, system time is Fri Oct 04 19:39:23 1991  
44.81 -0.8046 33.6355 27.0403 1444.30 2019

mark number 2, system time is Fri Oct 04 19:39:52 1991  
39.99 -0.7807 33.6312 27.0358 1444.33 2709

mark number 3, system time is Fri Oct 04 19:40:19 1991  
34.45 -0.7299 33.6260 27.0296 1444.47 3363

mark number 4, system time is Fri Oct 04 19:40:45 1991  
29.41 0.1870 33.2720 26.7020 1448.16 3972

mark number 5, system time is Fri Oct 04 19:41:09 1991  
24.45 1.8695 32.7318 26.1643 1454.94 4563

mark number 6, system time is Fri Oct 04 19:41:33 1991  
20.03 2.8484 32.3358 25.7717 1458.62 5139

mark number 7, system time is Fri Oct 04 19:41:59 1991  
14.98 3.2714 (31.6786) 25.2115 1459.50 5745

mark number 8, system time is Fri Oct 04 19:42:23 1991  
11.47 3.1359 30.9158 24.6151 1457.87 6327

mark number 9, system time is Fri Oct 04 19:42:59 1991  
6.37 3.0985 30.8660 24.5785 1457.57 7179

mark number 10, system time is Fri Oct 04 19:43:29 1991  
3.13 3.1414 30.8226 24.5403 1457.64 7902

Ship: SURVEYOR

CHOEX / ICE

[illegible]

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on <u>21</u> at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data Off _____	ID/Time _____	Data Location Floppy Number <u>5E, SC</u>	Remarks <u>Cassette 0635-</u> <u>Re terminated</u> <u>Cable</u>
Press. SN _____	Press. <u>32463.2</u>						
Temp. SN _____	Temp. <u>6162.</u>						
Cond. SN _____	Cond. <u>3124.4</u>						

[illegible]



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 278			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.									
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																					
33	68	11	84	N	173	12	12W	05	0	7	91	05	15	0	4	-1	0	09			193	20					50	5	C03	5

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on _____ at Surface _____ Start Down _____ at Bottom <u>0515</u> Start Up _____ at Surface _____ Data Off _____	JD/Time _____ _____ _____ _____ _____ _____ _____	Data Location Floppy Number <u>SE SC</u> _____ _____ _____	Remarks <u>TAPE</u> <u>0645-1319</u> _____ _____ _____
Press. SN _____	Press. <u>32462</u>	Press. <u>32467</u>					
Temp. SN _____	Temp. <u>6821</u>	Temp. <u>6250</u>					
Cond. SN _____	Cond. <u>3345</u>	Cond. <u>8670</u>					

[illegible]

308-309 empty ✓



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 278			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.								
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																				
	34	68	24	1	N	17	2	14	5	W	05	OCT	91	07	54	1	4	0	4	08		190	20					53	SC 04

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press.

Temp.

Cond.

at Surface:

32463

6809

3540

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

0754

Data Location  
Floppy Number

Remarks

TAPE  
1330-2235

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		48										310		mark number 1, system time is Sat Oct 05 07:52:14 1991
2		45							✓			311		48.65 2.1260 32.9132 26.2908 1456.70 2166
3		40										312		mark number 2, system time is Sat Oct 05 07:52:49 1991
4		35										313		45.68 2.1240 32.9130 26.2907 1456.64 3009
5		30										314		mark number 3, system time is Sat Oct 05 07:53:30 1991
6		25										315		40.36 2.0431 32.8617 26.2557 1456.13 3770
7		20										316		mark number 4, system time is Sat Oct 05 07:54:09 1991
8		15										317		35.69 2.0189 32.7956 26.2045 1455.86 4929
9		10										318		mark number 5, system time is Sat Oct 05 07:54:54 1991
10		5							✓			319		30.48 1.9714 32.7699 26.1875 1455.53 6018
11		SFC										320		mark number 6, system time is Sat Oct 05 07:55:42 1991
12														24.77 1.8417 32.6929 26.1351 1454.77 7152
														mark number 7, system time is Sat Oct 05 07:56:21 1991
														20.11 1.8228 32.6757 26.1227 1454.59 8088
														mark number 8, system time is Sat Oct 05 07:56:54 1991
														14.89 1.8404 32.6638 26.1118 1454.56 8883
														mark number 9, system time is Sat Oct 05 07:57:32 1991
														10.08 3.7392 30.8206 24.4871 1460.30 9783
														mark number 10, system time is Sat Oct 05 07:58:16 1991
														5.09 3.7626 30.7789 24.4518 1460.27 10854
														mark number 11, system time is Sat Oct 05 07:58:47 1991
														2.51 3.7605 30.7770 24.4505 1460.22 11583

Check bottle #5 321?

Ship: SURVEYOR

CHOEX / ICE

52

52

Consec. Cast #	Latitude		Longitude		Date JD = 278			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.			
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.															
35	68	36.3	N	171	36.1	W	05	Oct	91	1	00	0	1.5	0.6	07	-	-	19	82	1	---	---	56	SC 05

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32462.957

Temp. 64004

Cond. 33604

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

ID/Time  
0501Data Location  
Floppy Number

SE-SC

Remarks

TAPE  
2245-2324

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		52							✓					did not trip
2		45										323		SC05.mrk:
3		40										324		mark number 1, system time is Sat Oct 05 10:00:41 1991
4		35										325		48.96 1.6880 32.7548 26.1956 1454.56 2061
5		30							✓			326		mark number 2, system time is Sat Oct 05 10:00:59 1991
6		25										327		45.11 1.6756 32.7456 26.1891 1454.43 2499
7		20							✓			328		mark number 3, system time is Sat Oct 05 10:01:21 1991
8		15										329		39.51 1.7671 32.6351 26.0941 1454.60 3027
9		10										330		mark number 4, system time is Sat Oct 05 10:01:42 1991
10		5										331		34.88 1.8056 32.6291 26.0866 1454.69 3531
11		5L										332		mark number 5, system time is Sat Oct 05 10:02:03 1991
12														29.11 2.1572 32.4093 25.8850 1455.86 4026
														mark number 6, system time is Sat Oct 05 10:02:24 1991
														23.60 2.9170 32.1484 25.6164 1458.73 4524
														mark number 7, system time is Sat Oct 05 10:02:44 1991
														19.33 3.2516 32.0534 25.5120 1459.97 5016
														mark number 8, system time is Sat Oct 05 10:03:04 1991
														15.04 3.5844 31.6652 25.1731 1460.82 5487
														mark number 9, system time is Sat Oct 05 10:03:25 1991
														9.96 3.5924 31.4598 25.0089 1460.50 5997
														mark number 10, system time is Sat Oct 05 10:03:48 1991
														4.84 3.5871 31.4609 25.0102 1460.40 6528
														mark number 11, system time is Sat Oct 05 10:04:11 1991
														2.50 3.5770 31.4594 25.0100 1460.32 7098

Ship: SURVEYOR

CHOEX / ICE

51m

Consec. Cast #		Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
		Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
36	6848.0	N	17046.5	405	09	69	11	20	4	2.0	1.0	07	-	-	18	5	18	-	-		56	3C06

CTD Type & SN <u>SEABIRD</u>	Monitor Checks on Deck:	at Surface:	Times Data on	JD/Time	Data Location	Remarks
Press. SN _____	Press. <u>32463.3</u>	<u>32466.3</u>	at Surface _____	_____	Floppy Number _____	<u>Tape 2834-3400</u>
Temp. SN _____	Temp. <u>on</u>	<u>6819.5</u>	Start Down _____	_____	_____	<u>Spiky-</u>
Cond. SN _____	Cond. <u>pump</u>	<u>874.63</u>	at Bottom _____	_____	_____	
			Start Up _____	_____	_____	
			at Surface _____	_____	_____	
			Data Off _____	_____	_____	

Pos.	Bot. #	Trip Depth	Time at depth trip	Monitor Values				Sample Bottle Numbers					Comments	
				Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.		
1		53						✓		✓	333			
2		45									334			
3		40									335			
4		35									336			
5		30									337			
6		25									338			
7		20									339			
8		15									340			
9		10						✓			341			
10		5									342			
11											343			
12														

SC06.mrk:  
mark number 1, system time is Sat Oct 05 12:04:32 1991  
53.13 0176 01.1200 1400.56 1863  
mark number 2, system time is Sat Oct 05 12:05:04 1991  
44.41 1735 01.1594 1400.80 1661  
mark number 3, system time is Sat Oct 05 12:05:26 1991  
38.86 0424 01.1140 1400.30 1411  
mark number 4, system time is Sat Oct 05 12:05:46 1991  
34.89 0100 01.0020 1400.10 1339  
mark number 5, system time is Sat Oct 05 12:06:06 1991  
29.77 0176 01.7781 1400.07 4107  
mark number 6, system time is Sat Oct 05 12:06:27 1991  
24.33 0176 01.4690 1400.90 4605  
mark number 7, system time is Sat Oct 05 12:06:46 1991  
19.98 0100 01.4604 1401.06 5076  
mark number 8, system time is Sat Oct 05 12:07:09 1991  
14.14 0176 01.4470 1401.01 5607  
mark number 9, system time is Sat Oct 05 12:07:28 1991  
8.87 0176 01.4445 1400.91 6069  
mark number 10, system time is Sat Oct 05 12:07:48 1991  
4.63 0176 01.4452 1400.85 6534  
mark number 11, system time is Sat Oct 05 12:08:11 1991  
2.52 0176 01.4456 1400.82 7101

Ship: SURVEYOR

CHOEX / ICE

51

Consec. Cast #	Latitude		Longitude		Date JD = 278			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.		
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.														
37	68	56.2	N	169	59.4	W	05	02	19	14	03	2.3	1.2	05	-	-	19	01	6	-	-	56	5C07

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press.

Temp.

Cond.

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

Data Location  
Floppy Number

Remarks

SE-SC

Tape 3426-4025

Pos.	Bot. #	Trip	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1		52							✓			344		Bottom did not close
2		45										345		
3		40										346		
4		35										347		
5		30										348		
6		25										349		
7		20										350		
8		15										351		
9		10							✓			352		
10		5										353		
11		5 ft										354		
12														

SC07.mrk:  
mark number 1.6496 time 14:03:14 1991  
52.80 1.6496 time 14:03:47 1991  
mark number 1.6496 time 14:03:47 1991  
45.90 1.6496 time 14:04:13 1991  
mark number 1.0109 time 14:04:41 1991  
39.91 1.0109 time 14:04:41 1991  
mark number 1.0109 time 14:05:04 1991  
34.80 1.0109 time 14:05:32 1991  
mark number 1.0109 time 14:05:56 1991  
30.80 1.0109 time 14:06:21 1991  
mark number 1.0109 time 14:06:46 1991  
24.90 1.0109 time 14:07:11 1991  
mark number 1.0109 time 14:07:35 1991  
20.10 1.0109 time 14:07:59 1991  
mark number 1.0109 time 14:08:23 1991  
15.00 1.0109 time 14:08:47 1991  
mark number 1.0109 time 14:09:11 1991  
10.93 1.0109 time 14:09:35 1991  
mark number 1.0109 time 14:09:59 1991  
6.22 1.0109 time 14:10:23 1991  
mark number 1.0109 time 14:10:47 1991  
2.77 1.0109 time 14:11:11 1991

Ship: SURVEYOR

CHOEX / ICE

5  
49

Consec. Cast #	Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
38	68	56.8	N	168	57.9	W	05	Oct	91	11	19	11.1	1.004	1	5	165	16	-	-	54	SC08

CTD Type & SN <u>SEABIRD</u>	Monitor Checks on Deck:	at Surface:	Times Data on	JD/Time	Data Location	Remarks
Press. SN _____	Press. <u>38462.9</u>	<u>467.49</u>	at Surface	_____	Floppy Number <u>SE-SC</u>	<u>Tape 0021-0611</u>
Temp. SN _____	Temp. <u>6308</u>	<u>7046.1</u>	Start Down	_____	_____	_____
Cond. SN _____	Cond. <u>3123</u>	<u>8790.8</u>	at Bottom	_____	_____	_____
			Start Up	_____	_____	_____
			at Surface	_____	_____	_____
			Data Off	_____	_____	_____

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		50							✓		✓	355		
2		45										356		
3		40										357		SC08.mrk: 1.6958 time 1465.69 Oct 05 16:19:40 1991
4		35										358		mark number 1.6958 time 1465.69 Oct 05 16:20:09 1991
5		30										359		mark number 1.6958 time 1465.69 Oct 05 16:20:31 1991
6		25										360		mark number 1.6958 time 1465.69 Oct 05 16:20:53 1991
7		20										361		mark number 1.6958 time 1465.69 Oct 05 16:21:18 1991
8		15										362		mark number 1.6958 time 1465.69 Oct 05 16:21:40 1991
9		10										363		mark number 1.6958 time 1465.69 Oct 05 16:22:02 1991
10		5										364		mark number 1.6958 time 1465.69 Oct 05 16:22:27 1991
11		5k										365		mark number 1.6958 time 1465.69 Oct 05 16:22:51 1991
12														mark number 1.6958 time 1465.69 Oct 05 16:23:16 1991

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 278			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
39	68	56.0	N	167	59.2	W	05	0	09	1	18	31	1	1	0	04					51	3C09

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press.

Temp.

Cond.

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

Data Location  
Floppy Number

Remarks

Tape 0021-1248

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		46							✓			366		SC09.mrk:
2		45										367		mark number 1, system time is Sat Oct 05 18:29:50 1991
3		40										368		45.65 2.8460 32.1519 25.6252 1458.79 1932
4		35										369		mark number 2, system time is Sat Oct 05 18:30:16 1991
5		30										370		44.61 2.8880 32.1418 25.6136 1458.94 2565
6		25										371		mark number 3, system time is Sat Oct 05 18:30:43 1991
7		20										372		39.77 2.9892 32.1168 25.5852 1459.26 3213
8		15										373		mark number 4, system time is Sat Oct 05 18:31:08 1991
9		10										374		34.49 3.4709 32.0217 25.4674 1461.11 3819
10		5										375		mark number 5, system time is Sat Oct 05 18:31:36 1991
11		50										376		29.61 5.0358 31.6634 25.0273 1467.11 4479
12														mark number 6, system time is Sat Oct 05 18:32:00 1991
														24.56 5.9358 30.7143 24.1757 1469.47 5052
														mark number 7, system time is Sat Oct 05 18:32:24 1991
														20.19 6.0385 30.3568 23.8815 1469.36 5631
														mark number 8, system time is Sat Oct 05 18:32:55 1991
														15.08 6.1565 29.9905 23.5787 1469.29 6387
														mark number 9, system time is Sat Oct 05 18:33:30 1991
														10.14 6.1502 29.9894 23.5785 1469.18 7221
														mark number 10, system time is Sat Oct 05 18:33:58 1991
														4.30 6.1603 29.9909 23.5784 1469.13 7893
														mark number 11, system time is Sat Oct 05 18:34:21 1991
														3.29 6.2006 29.9915 23.5742 1469.28 8427



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.									
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																					
40	68	20.1	N	166	53.6	W	06	0	CT	91	09	52	3.0	2.3	00			2	S	S	2	S					30	S	B	07

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on _____ at Surface _____ Start Down _____ at Bottom <u>0952</u> Start Up _____ at Surface _____ Data Off _____	JD/Time _____ _____ _____ _____ _____ _____ _____	Data Location Floppy Number _____ _____ _____ _____ _____	Remarks <u>TAPE</u> <u>1300-1810</u>
Press. SN _____	Press. <u>32463</u>	_____	_____	_____	_____	_____	_____
Temp. SN _____	Temp. <u>6595</u>	_____	_____	_____	_____	_____	_____
Cond. SN _____	Cond. <u>3646</u>	_____	_____	_____	_____	_____	_____

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		25										377		WATER LOST FROM BOTTLE #1
2		20												
3		15										378		
4		10										379		
5		S										380		
6		SFC										381		
7												382		SB07.mrk:
8														mark number 1, system time is Sun Oct 06 09:51:03 1991
9														24.06 6.4547 28.7945 22.6012 1469.13 1479
10														mark number 2, system time is Sun Oct 06 09:51:35 1991
11														20.13 6.4503 28.7218 22.5444 1468.96 2241
12														mark number 3, system time is Sun Oct 06 09:52:02 1991
														15.57 6.4437 28.6216 22.4662 1468.73 2889
														mark number 4, system time is Sun Oct 06 09:52:28 1991
														9.58 6.4361 28.5724 22.4283 1468.54 3525
														mark number 5, system time is Sun Oct 06 09:52:54 1991
														5.97 6.4304 28.5685 22.4259 1468.45 4137
														mark number 6, system time is Sun Oct 06 09:53:25 1991
														2.76 6.4286 28.5590 22.4186 1468.38 4881

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
4168	11	7	N	167	19	9	W	06	02	2.0	1.8	98			245	26				495	B 06B

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck:                      at Surface:		Times Data on _____ at Surface _____ Start Down _____ at Bottom <u>1202</u> Start Up _____ at Surface _____ Data Off _____	JD/Time _____ _____ _____ _____ _____ _____	Data Location Floppy Number _____ _____ _____ _____ _____ _____	Remarks <u>TAPE</u> <u>1820-2415</u>
Press. SN _____	Press. <u>32463</u>	<u>32466</u>					
Temp. SN _____	Temp. <u>7227</u>	<u>7041</u>					
Cond. SN _____	Cond. <u>3751</u>	<u>8713</u>					

[illegible]

Ship: SURVEYOR

CHOEX / ICE

49

INDEX / ICE 49

Consec. Cast #	Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.				
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																
42	68	05	1	N	16	7	40	6	W	06	Oct	91	13	55	2.6	2.2	02	-	5	01	322	-	-	54	SB06A

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press.

Temp.

Cond.

at Surface:

32468

6870

8711

Times  
Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time  
1357

1355

Data Location  
Floppy Number

Remarks TAPE

2425-3105

Spiky

No alarm

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		52										393		SB06A.mrk:
2		45							✓			394		mark number 1, system time is Sun Oct 06 13:55:13 1991
3		40										395		51.80 1.1990 32.7825 26.2503 1452.47 2130
4		35										396		mark number 2, system time is Sun Oct 06 13:55:47 1991
5		30										397		45.26 1.1980 32.7812 26.2493 1452.35 2955
6		25										398		mark number 3, system time is Sun Oct 06 13:56:17 1991
7		20										399		41.66 1.2017 32.7814 26.2493 1452.31 3675
8		15										400		mark number 4, system time is Sun Oct 06 13:56:42 1991
9		10										401		35.43 1.2129 32.7815 26.2486 1452.26 4287
10		5							✓			402		mark number 5, system time is Sun Oct 06 13:57:07 1991
11		50										403		30.55 1.2605 32.7809 26.2451 1452.39 4875
12														mark number 6, system time is Sun Oct 06 13:57:31 1991
														24.97 2.2131 32.6152 26.0456 1456.30 5463
														mark number 7, system time is Sun Oct 06 13:57:52 1991
														19.93 2.6357 32.4139 25.8515 1457.80 5967
														mark number 8, system time is Sun Oct 06 13:58:16 1991
														13.82 4.0280 30.8333 24.4706 1461.60 6537
														mark number 9, system time is Sun Oct 06 13:58:37 1991
														10.19 4.0291 30.8373 24.4737 1461.55 7035
														mark number 10, system time is Sun Oct 06 13:59:00 1991
														4.87 4.0277 30.8372 24.4737 1461.46 7581
														mark number 11, system time is Sun Oct 06 13:59:19 1991
														2.29 4.0331 30.8428 24.4777 1461.45 8046

Ship: SURVEYOR

CHOEX / ICE

51

Consec. Cast #		Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
Deg. Min.		Deg. Min.		Deg. Min.		Day	Mo.	Yr.	Hr.	Min.												
43	6751	1	69	N	168	20	30	W	06	09	2.0	1.5	04	-	10	01525	---			56	5805	

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32464.6

Temp. 6469

Cond. 3100

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

1609

Data Location  
Floppy Number

58

Remarks

Tape 3117-3719

Rolling - fish mump  
1-5 m during  
No alarm bottle tops

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers				
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.
1		53							✓		✓	404	
2		45										405	
3		40										406	
4		35										407	
5		30										408	
6		25										409	
7		20										410	
8		15										411	
9		10							✓			412	
10		5										413	
11		SW										414	
12													

Comments

SB05.mrk:

mark number 1, system time is Sun Oct 06 16:09:12 1991  
53.49 1.4298 32.2929 25.8425 1452.88 2049  
mark number 2, system time is Sun Oct 06 16:09:47 1991  
44.87 1.4684 32.2842 25.8330 1452.90 2877  
mark number 3, system time is Sun Oct 06 16:10:09 1991  
39.60 1.7845 32.2227 25.7624 1454.14 3417  
mark number 4, system time is Sun Oct 06 16:10:34 1991  
34.26 2.3062 32.1373 25.6562 1456.24 4005  
mark number 5, system time is Sun Oct 06 16:10:57 1991  
29.04 2.5253 32.0926 25.6036 1457.05 4563  
mark number 6, system time is Sun Oct 06 16:11:18 1991  
27.18 2.5390 32.0817 25.5938 1457.06 5061  
mark number 7, system time is Sun Oct 06 16:11:45 1991  
21.59 4.4486 31.6787 25.1010 1464.57 5712  
mark number 8, system time is Sun Oct 06 16:12:14 1991  
16.27 5.9884 29.4655 23.1840 1467.98 6408  
mark number 9, system time is Sun Oct 06 16:12:40 1991  
10.29 5.9826 29.4469 23.1700 1467.83 7017  
mark number 10, system time is Sun Oct 06 16:13:04 1991  
5.87 5.9797 29.4449 23.1687 1467.74 7593  
mark number 11, system time is Sun Oct 06 16:13:29 1991  
3.22 5.9776 29.4474 23.1709 1467.70 8199

Ship: SURVEYOR										CHOEX / ICE													
Consec. Cast #	Latitude Deg. Min.		Longitude Deg. Min.		Date JD = 279 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.		
446738	7	N	16900	7	W	06	Oct	9	11	8	26	1.7	1.2	04	-	4	0	2	0	2	4	51	SB04

CTD Type & SN SEABIRD		Monitor Checks on Deck:		at Surface:		Times Data on		JD/Time		Data Location Floppy Number		Remarks	
Press. SN		Press. 32463.3		32469~		at Surface				SB		3732 - end	
Temp. SN		Temp. 6431		7146		Start Down							
Cond. SN		Cond. 3084.5		8706		at Bottom							
						Start Up							
						at Surface							
						Data Off							

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments	
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.		
1		45												1	SB04.mrk: mark number 1, system time is Sun Oct 06 18:26:09 1991 44.34 1.6139 32.7653 26.2092 1454.17 2550 mark number 2, system time is Sun Oct 06 18:26:40 1991 39.37 1.3461 32.5673 26.0681 1452.64 3297 mark number 3, system time is Sun Oct 06 18:27:04 1991 34.67 1.3307 32.5629 26.0656 1452.49 3888 mark number 4, system time is Sun Oct 06 18:27:33 1991 31.74 1.3282 32.5575 26.0613 1452.42 4572 mark number 5, system time is Sun Oct 06 18:28:20 1991 25.42 1.6111 32.3493 25.8757 1453.31 5703 mark number 6, system time is Sun Oct 06 18:28:58 1991 19.84 4.6646 31.4735 24.9161 1465.18 6603 mark number 7, system time is Sun Oct 06 18:29:32 1991 16.66 6.0765 30.0681 23.6493 1469.10 7419 mark number 8, system time is Sun Oct 06 18:30:08 1991 10.49 5.8107 29.1283 22.9379 1466.74 8271 mark number 9, system time is Sun Oct 06 18:30:39 1991 5.45 5.7979 29.1241 22.9359 1466.60 9033 mark number 10, system time is Sun Oct 06 18:31:07 1991 2.23 5.9021 29.1210 22.9219 1466.96 9705
2		40												2	
3		35												3	
4		30												4	
5		25												5	
6		20												6	
7		15												7	
8		10												8	
9		5												9	
10		40												10	
11														11	
12														12	

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.			
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.															
45	67	25	8	N	16	9	39	9	W	06	0	7	9	1	20	47	0	9	0	1	08	01523	51	5803

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

32469

Temp. 6360

7094

Cond. 3089

8656

Times

JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

Data Location  
Floppy Number

Remarks

TAPE

0010 - 0745

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		46										426		SB03.mrk:
2		45							✓			427		mark number 1, system time is Sun Oct 06 20:44:59 1991
3		40										428		47.27 1.7021 32.7992 26.2302 1454.66 2181
4		35										429		mark number 2, system time is Sun Oct 06 20:45:31 1991
5		30										430		46.09 1.6996 32.7968 26.2285 1454.62 2949
6		25										431		mark number 3, system time is Sun Oct 06 20:46:04 1991
7		20										432		39.23 1.5866 32.6517 26.1199 1453.82 3753
8		15										433		mark number 4, system time is Sun Oct 06 20:46:41 1991
9		10										434		35.08 1.5850 32.6272 26.1003 1453.71 4635
10		5							✓			435		mark number 5, system time is Sun Oct 06 20:47:08 1991
11		55										436		30.20 3.9660 31.7851 25.2331 1462.83 5286
12														mark number 6, system time is Sun Oct 06 20:47:41 1991
														24.59 5.7525 30.9173 24.3572 1468.99 6078
														mark number 7, system time is Sun Oct 06 20:48:11 1991
														20.48 5.4472 30.7056 24.2243 1467.42 6795
														mark number 8, system time is Sun Oct 06 20:48:44 1991
														14.73 5.6635 29.6388 23.3573 1466.86 7584
														mark number 9, system time is Sun Oct 06 20:49:18 1991
														10.09 5.5213 29.0240 22.8871 1465.42 8400
														mark number 10, system time is Sun Oct 06 20:49:47 1991
														5.26 5.5147 29.0206 22.8851 1465.31 9075
														mark number 11, system time is Sun Oct 06 20:50:17 1991
														3.30 5.5149 29.0208 22.8852 1465.28 9801



Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 279			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
46	67	12.9	N	17020.4	W	06	04	T	91	23	23	1.3	0.3	12		22	51	4			48	5B02

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32463

32468

Temp. 6929

6941

Cond. 3430

8746

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

2323

Data Location  
Floppy Number

Remarks

TAPE  
0755-1305

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		44										437		NO TRIP ON BOTTLE #10
2		40										438		
3		35										439		
4		30										440		
5		25							✓			441		
6		20										442		
7		15										443		
8		10										444		
9		5							✓			445		
10		SFC										446		
11														
12														

SBO2.mrk:  
mark number 1, system time is Sun Oct 06 23:21:08 1991  
45.00 1.6936 32.7807 26.2160 1454.56 1410  
mark number 2, system time is Sun Oct 06 23:21:31 1991  
40.43 1.5869 32.7087 26.1656 1453.92 1971  
mark number 3, system time is Sun Oct 06 23:22:04 1991  
38.19 1.7728 32.5136 25.9964 1454.37 2757  
mark number 4, system time is Sun Oct 06 23:22:26 1991  
29.32 1.7938 32.5151 25.9961 1454.40 3279  
mark number 5, system time is Sun Oct 06 23:22:49 1991  
25.67 1.8026 32.5146 25.9950 1454.38 3825  
mark number 6, system time is Sun Oct 06 23:23:09 1991  
20.05 1.8205 32.5147 25.9938 1454.36 4311  
mark number 7, system time is Sun Oct 06 23:23:29 1991  
14.28 2.0817 32.4456 25.9196 1455.33 4773  
mark number 8, system time is Sun Oct 06 23:23:51 1991  
9.29 4.5240 30.6627 24.2872 1463.39 5319  
mark number 9, system time is Sun Oct 06 23:24:14 1991  
4.23 4.5285 30.6659 24.2893 1463.33 5871  
mark number 10, system time is Sun Oct 06 23:24:39 1991  
1.97 4.6471 30.6618 24.2742 1463.78 6453

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
476704	4	N	17040	1	W	07	0C	79	1	01	15	1.8	1.2	13	015	12				455	B01B

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck: _____ at Surface: _____		Times Data on _____ at Surface _____ Start Down _____ at Bottom <u>0115</u> Start Up _____ at Surface _____ Data Off _____	JD/Time _____	Data Location Floppy Number _____	Remarks <u>TAPE</u> <u>1315-2103</u>
Press. SN _____	Press. <u>32462</u>	<u>32467</u>					
Temp. SN _____	Temp. <u>6892</u>	<u>6968</u>					
Cond. SN _____	Cond. <u>3716</u>	<u>8636</u>					

[illegible]

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #	Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
48	66	55.9 N	170	59.9 W	07	0	C	T	9	10	24	7			02	0	1	8			425 B 01 A

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck:                      at Surface:		Times Data on _____	JD/Time _____	Data Location Floppy Number _____	Remarks <u>TAPE</u>
Press. SN _____	Press. <u>32463</u>	<u>32468</u>	Start Down _____	at Surface _____	_____	_____	<u>2115 - 2639</u>
Temp. SN _____	Temp. <u>6200</u>	<u>6893</u>	at Bottom _____	Start Up _____	<u>0247</u>	_____	
Cond. SN _____	Cond. <u>3171</u>	<u>8641</u>	at Surface _____	Data Off _____	_____	_____	

[illegible]

Ship: SURVEYOR

CHOEX / ICE

44m

Consec. Cast #	Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.								
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																				
49	65	59	45	N	16	9	38	94	W	07	0	0	9	1	09	19	11	0	0	2	16	-10	335	17	—	—	—	49	SA01

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32462.8

32469

→ Temp. 6168

6975.1

Cond. 3176

8712.8

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

Data Location  
Floppy Number

Remarks

Cassette 0015-0654

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1		43									✓	465		SA01.mrk:
2		40							✓			466		mark number 1, system time is Mon Oct 07 09:19:33 1991
3		35										467		43.52 3.6297 32.7948 26.0683 1462.93 2007
4		30										468		mark number 2, system time is Mon Oct 07 09:20:04 1991
5		25										469		41.44 3.6278 32.7944 26.0682 1462.89 2781
6		20										470		mark number 3, system time is Mon Oct 07 09:20:40 1991
7		15										471		35.74 3.6742 32.7761 26.0492 1462.97 3639
8		10										472		mark number 4, system time is Mon Oct 07 09:21:10 1991
9		5										473		29.05 4.6940 30.7567 24.3448 1464.53 4347
10		5h										474		mark number 5, system time is Mon Oct 07 09:21:42 1991
11														25.04 4.7179 30.4474 24.0973 1464.17 5127
12														mark number 6, system time is Mon Oct 07 09:22:16 1991
														20.34 4.7078 30.3858 24.0494 1463.98 5937
														mark number 7, system time is Mon Oct 07 09:22:50 1991
														15.57 4.7260 30.2996 23.9792 1463.86 6759
														mark number 8, system time is Mon Oct 07 09:23:21 1991
														9.75 4.7418 30.2206 23.9150 1463.73 7479
														mark number 9, system time is Mon Oct 07 09:23:48 1991
														4.55 4.7490 30.1789 23.8811 1463.62 8139
														mark number 10, system time is Mon Oct 07 09:24:18 1991
														2.71 4.7531 30.1861 23.8864 1463.62 8853

Ship: SURVEYOR

CHOEX / ICE

47

Consec. Cast #	Latitude Deg. Min.		Longitude Deg. Min.		Date JD = 280 Day Mo. Yr.			Time, GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.
506556	2	N	169	29.4	W	07	0	91	11	02	6	0.7	-0.6	17	-10	34	1	8		52	SA02

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press.

Temp.

Cond.

32464.1

16922.1

8777.8

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

Data Location  
Floppy Number

Remarks

Cassette

0703-1227

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		45							✓			475		SA02.mrk:
2		40										476		mark number 1, system time is Mon Oct 07 10:26:34 1991
3		35										477		45.62 1.9539 32.7119 26.1424 1455.63 1683
4		30										478		mark number 2, system time is Mon Oct 07 10:27:09 1991
5		25										479		39.70 2.6367 32.6718 26.0575 1458.46 2538
6		20										480		mark number 3, system time is Mon Oct 07 10:27:34 1991
7		15										481		34.16 2.7972 32.6659 26.0396 1459.06 3129
8		10										482		mark number 4, system time is Mon Oct 07 10:27:57 1991
9		5							✓			483		29.74 2.8351 32.6633 26.0343 1459.15 3675
10		5R		Ord not trip								484		mark number 5, system time is Mon Oct 07 10:28:20 1991
11														24.91 3.5521 32.5275 25.8626 1461.96 4233
12														mark number 6, system time is Mon Oct 07 10:28:43 1991
														19.74 4.5132 31.9584 25.3164 1465.17 4791
														mark number 7, system time is Mon Oct 07 10:29:06 1991
														14.76 4.1428 31.5656 25.0415 1463.04 5349
														mark number 8, system time is Mon Oct 07 10:29:29 1991
														9.76 4.2281 31.4301 24.9255 1463.14 5889
														mark number 9, system time is Mon Oct 07 10:29:53 1991
														4.43 4.3807 31.0972 24.6462 1463.27 6459
														mark number 10, system time is Mon Oct 07 10:30:16 1991
														2.22 4.3840 31.0931 24.6426 1463.24 7020

Ship: SURVEYOR

CHOEX / ICE

43m

Consec. Cast #	Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.			
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.															
51	65	53.9	N	169	18.7	W	07	0	0	0	1	1	38	0.8	-0.8	17	-10	00	00	08	—	—	48	SA03

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press.

Temp.

Cond.

32463.8

6840

8842.7

32467.1

6840

8842.7

Times  
Data on  
at Surface  
Start Down  
at Bottom  
Start Up  
at Surface  
Data Off

JD/Time

Data Location  
Floppy Number

Remarks

1236-1806

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1		45							✓			485		SA03.mrk:
2		40										486		mark number 1, system time is Mon Oct 07 11:38:22 1991
3		35										487		45.23 2.8356 32.5589 25.9509 1459.26 1557
4		30										488		mark number 2, system time is Mon Oct 07 11:39:14 1991
5		25										489		41.02 2.8652 32.5464 25.9385 1459.31 2817
6		20										490		mark number 3, system time is Mon Oct 07 11:39:40 1991
7		15										491		35.11 3.2310 32.4477 25.8282 1460.65 3435
8		10							✓			492		mark number 4, system time is Mon Oct 07 11:40:03 1991
9		5										493		29.74 3.7654 32.3083 25.6682 1462.65 3993
10		5R										494		mark number 5, system time is Mon Oct 07 11:40:24 1991
11														24.37 3.9212 32.2611 25.6158 1463.16 4497
12														mark number 6, system time is Mon Oct 07 11:40:45 1991
														20.46 3.9178 32.2566 25.6125 1463.08 5007
														mark number 7, system time is Mon Oct 07 11:41:08 1991
														14.70 3.8439 32.2343 25.6018 1462.64 5553
														mark number 8, system time is Mon Oct 07 11:41:32 1991
														9.44 3.8362 32.2344 25.6026 1462.53 6123
														mark number 9, system time is Mon Oct 07 11:41:57 1991
														5.24 3.8466 32.2353 25.6023 1462.50 6717
														mark number 10, system time is Mon Oct 07 11:42:23 1991
														2.09 3.8413 32.2334 25.6013 1462.43 7326



Ship: SURVEYOR

CHOEX / ICE 42

45

Consec. Cast #	Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.													
52	65	52.0	N	169	07.1	W	07	Oct	91	13	13	0.4	-1.0	17	-10	35	21	2	—	—	47	5A04

CTD Type & SN		Monitor Checks		Times	JD/Time	Data Location	Remarks
SEABIRD		on Deck:	at Surface:	Data on		Floppy Number	
Press. SN		Press. <u>32463</u>	<u>32466.9</u>	at Surface			Cassette 1816-2343
Temp. SN		Temp. <u>cleaning</u>	<u>6905</u> ↓	Start Down			
Cond. SN		Cond. <u>cleaning</u>	<u>8820</u> ↓	at Bottom			
				Start Up			
				at Surface			
				Data Off			

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		42				—	—	—			—	495		lanyard hooked / drained
2		35							✓			496		
3		30										497		
4		25										498		
5		20										499		
6		15										500		
7		10										501		
8		5							✓			502		
9		5 ft										503		
10														
11														
12														

SAO4.mrk:

mark number 1, system time is Mon Oct 07 13:13:23 1991

43.01 3.5723 32.3781 25.7419 1462.14 1593

mark number 2, system time is Mon Oct 07 13:14:02 1991

35.22 3.4040 32.3626 25.7449 1461.28 2571

mark number 3, system time is Mon Oct 07 13:14:26 1991

30.45 3.3848 32.3587 25.7435 1461.12 3129

mark number 4, system time is Mon Oct 07 13:14:53 1991

25.10 3.4914 32.3621 25.7366 1461.49 3783

mark number 5, system time is Mon Oct 07 13:15:18 1991

20.65 3.6318 32.3705 25.7302 1462.02 4365

mark number 6, system time is Mon Oct 07 13:15:42 1991

14.80 4.2864 31.6514 25.0956 1463.75 4959

mark number 7, system time is Mon Oct 07 13:16:12 1991

9.58 4.2859 31.5011 24.9762 1463.47 5670

mark number 8, system time is Mon Oct 07 13:16:37 1991

3.61 4.2781 31.5024 24.9780 1463.34 6264

mark number 9, system time is Mon Oct 07 13:16:57 1991

3.94 4.2886 31.4995 24.9746 1463.39 6753

Ship: SURVEYOR

CHOEX / ICE

43

Consec. Cast #	Latitude		Longitude		Date JD =			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.												
	53	6545.60	16851.63W		07	0	ct 91	15	11		1.0-0.2	17	-	10	345	13	—	—		48	SA05

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

Press.

Temp.

Cond.

at Surface:

32463

32464

6958

8764

Times

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

JD/Time

Data Location  
Floppy Number

SB-SA

Remarks

Tape 2357-2921

Binavs - ERROR writing  
converted data file, bin 4

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O <sub>2</sub>	180	Nut.	Chl.	
1		44			Did not close				✓			504		SA05.mrk:
2		40										505		mark number 1, system time is Mon Oct 07 15:11:22 1991
3		35							✓			506		44.52 3.8233 32.3860 25.7247 1463.24 1551
4		30										507		mark number 2, system time is Mon Oct 07 15:11:50 1991
5		25										508		40.78 3.8321 32.3824 25.7209 1463.21 2241
6		20										509		mark number 3, system time is Mon Oct 07 15:12:17 1991
7		15										510		35.22 3.8444 32.3756 25.7143 1463.16 2877
8		10										511		mark number 4, system time is Mon Oct 07 15:12:40 1991
9		5										512		30.27 3.8520 32.3627 25.7033 1463.10 3456
10		5K										513		mark number 5, system time is Mon Oct 07 15:13:08 1991
11														24.51 4.2359 31.6332 25.0861 1463.67 4107
12														mark number 6, system time is Mon Oct 07 15:13:30 1991
														20.23 4.3118 31.3617 24.8631 1463.57 4635
														mark number 7, system time is Mon Oct 07 15:13:55 1991
														15.18 4.3583 31.2883 24.8001 1463.59 5247
														mark number 8, system time is Mon Oct 07 15:14:19 1991
														10.64 4.3874 31.2295 24.7506 1463.56 5811
														mark number 9, system time is Mon Oct 07 15:14:47 1991
														4.69 4.6379 30.6834 24.2922 1463.81 6489
														mark number 10, system time is Mon Oct 07 15:15:08 1991
														3.85 4.6313 30.6850 24.2942 1463.77 6957

sample taken from 11

Ship: SURVEYOR

CHOEX / ICE

S  
48

Consec. Cast #	Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.			
	Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.															
54	65	44	26	N	16	8	45	04	W	07	0	6	9	1	15	58	0.5	-0.4	18	-10	34	014	53	SA06

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 324635 32469

Temp. 6133 7064

Cond. 3121 8671

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

Data Location  
Floppy Number

Remarks

Tape 2931-3500

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		46							✓			514		
2		40							(✓)			515		
3		35										516		SA06.mrk: mark number 1, system time is Mon Oct 07 15:58:31 1991 47.98 4.0352 32.4554 25.7594 1464.27 1800
4		30										517		mark number 2, system time is Mon Oct 07 15:59:10 1991 40.66 4.0441 32.4557 25.7587 1464.19 2733
5		25										518		mark number 3, system time is Mon Oct 07 15:59:35 1991 34.17 4.0513 32.4551 25.7574 1464.12 3354
6		20										519		mark number 4, system time is Mon Oct 07 15:59:58 1991 30.24 4.1333 32.2293 25.5698 1464.10 3891
7		15										520		mark number 5, system time is Mon Oct 07 16:00:24 1991 24.85 4.7019 32.1816 25.4737 1466.32 4509
8		10										521		mark number 6, system time is Mon Oct 07 16:00:49 1991 20.39 5.0310 32.1334 25.4001 1467.53 5109
9		5							✓			522		mark number 7, system time is Mon Oct 07 16:01:11 1991 13.87 5.0900 30.7316 24.2836 1465.89 5643
10		58										523		mark number 8, system time is Mon Oct 07 16:01:34 1991 8.84 5.4337 29.7602 23.4783 1465.98 6177
11														mark number 9, system time is Mon Oct 07 16:01:55 1991 5.91 5.3230 29.2696 23.1022 1464.86 6693
12														mark number 10, system time is Mon Oct 07 16:02:17 1991 2.73 5.3216 29.2685 23.1015 1464.80 7206

Ship: SURVEYOR										CHOEX / ICE															48 <sup>5</sup>				
Consec. Cast #	Latitude Deg. Min.		Longitude Deg. Min.		Date JD = 280 Day Mo. Yr.			Time, GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.								
556543	66N		168E		07 Oct 1991			1647		0.5	-1.0	118	-	10	320	16	-	-	-	53	SA07								

CTD Type & SN <u>SEABIRD</u>		Monitor Checks on Deck:		at Surface:		Times Data on at Surface Start Down at Bottom Start Up at Surface Data Off	JD/Time	Data Location Floppy Number	Remarks  <u>Tape 3513-</u>  <u>Bongo</u>
		Press. <u>32464</u>		<u>32467.7</u>					
		Temp. <u>6160</u>		<u>7077</u>					
		Cond. <u>3141</u>		<u>8700</u>					

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		50							✓			524		SA07.mrk:
2		45										525		mark number 1, system time is Mon Oct 07 16:47:06 1991
3		40										526		51.45 3.8443 32.3701 25.7100 1463.42 1899
4		35										527		mark number 2, system time is Mon Oct 07 16:47:41 1991
5		30										528		45.38 3.8531 32.3691 25.7083 1463.36 2754
6		25										529		mark number 3, system time is Mon Oct 07 16:48:08 1991
7		20										530		40.37 3.9028 32.2939 25.6438 1463.39 3405
8		15										531		mark number 4, system time is Mon Oct 07 16:48:37 1991
9		10										532		35.12 4.4180 32.1517 25.4796 1465.27 4086
10		5										533		mark number 5, system time is Mon Oct 07 16:49:03 1991
11		50							✓			534		29.76 3.9982 31.6330 25.1091 1462.76 4719
12														mark number 6, system time is Mon Oct 07 16:49:26 1991

Ship: SURVEYOR

CHOEX / ICE

49<sup>5</sup>

Consec. Cast #		Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weather	Bottom Depth, m	Sta. Name or I.D.		
		Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.														
56	6542.8	N	168	28	1	W	07	0	09	1	17	52	0.9	-	0.4	18	-	10	33	6	12	---	54	SA08

CTD Type & SN SEABIRD

Press. SN \_\_\_\_\_

Temp. SN \_\_\_\_\_

Cond. SN \_\_\_\_\_

Monitor Checks

on Deck:

at Surface:

Press. 3246332469Temp. 7164Cond. 31808694
 Times  
 Data on \_\_\_\_\_  
 at Surface \_\_\_\_\_  
 Start Down \_\_\_\_\_  
 at Bottom \_\_\_\_\_  
 Start Up \_\_\_\_\_  
 at Surface \_\_\_\_\_  
 Data Off \_\_\_\_\_

JD/Time

Data Location  
Floppy Number

Remarks

Tape 0016-0727

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	180	Nut.	Chl.	
1		47							✓			535		SA08.mrk:
2		40										536		mark number 1, system time is Mon Oct 07 17:52:04 1991
3		35										537		47.57 3.5703 32.4964 25.8363 1462.36 3282
4		30										538		mark number 2, system time is Mon Oct 07 17:52:34 1991
5		25										539		40.02 3.5803 32.4934 25.8330 1462.28 4011
6		20										540		mark number 3, system time is Mon Oct 07 17:53:14 1991
7		15										541		35.53 3.6236 32.4815 25.8194 1462.37 4983
8		10							✓			542		mark number 4, system time is Mon Oct 07 17:53:51 1991
9		5										543		30.65 3.8222 32.3790 25.7191 1463.00 5859
10		5/6										544		mark number 5, system time is Mon Oct 07 17:54:18 1991
11														26.36 4.6994 31.9766 25.3114 1466.07 6519
12														mark number 6, system time is Mon Oct 07 17:54:44 1991
														20.47 5.5877 30.9595 24.4092 1468.31 7137
														mark number 7, system time is Mon Oct 07 17:55:12 1991
														15.96 5.6662 29.4284 23.1908 1466.62 7797
														mark number 8, system time is Mon Oct 07 17:55:39 1991
														10.22 5.9705 28.9087 22.7467 1467.10 8445
														mark number 9, system time is Mon Oct 07 17:56:06 1991
														4.94 5.9789 28.9100 22.7468 1467.05 9093
														mark number 10, system time is Mon Oct 07 17:56:29 1991
														2.73 6.0266 28.9033 22.7361 1467.20 9657

Ship: SURVEYOR

CHOEX / ICE

Consec. Cast #		Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.					
		Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																	
57	65	41	8	N	16	8	19	4	W	07	02	79	1	18	55	0	8	-0	4	18		00214				54	SA09

CTD Type &amp; SN SEABIRD

Press. SN

Temp. SN

Cond. SN

Monitor Checks  
on Deck:

at Surface:

Press. 32464

Temp. 6935

Cond. 3488

32468

7191

8660

Times

JD/Time

Data on

at Surface

Start Down

at Bottom

Start Up

at Surface

Data Off

Data Location  
Floppy Number

Remarks

Tape 0736-1522

Pos.	Bot. #	Trip Depth	Time		Monitor Values				Sample Bottle Numbers					Comments
			at depth	trip	Press.	Temp.	Cond.	Other	Sal.	O <sub>2</sub>	<sup>18</sup> O	Nut.	Chl.	
1		48												SA09.mrk:
2		45							✓					mark number 1, system time is Mon Oct 07 18:52:59 1991
3		40												49.65 3.7804 31.9874 25.4116 1462.63 2445
4		35												mark number 2, system time is Mon Oct 07 18:53:32 1991
5		30												45.00 3.7808 31.9755 25.4021 1462.54 3243
6		25												mark number 3, system time is Mon Oct 07 18:54:19 1991
7		20												39.45 3.8316 31.6737 25.1572 1462.27 4365
8		15												mark number 4, system time is Mon Oct 07 18:54:45 1991
9		10												34.67 4.5026 31.1165 24.6496 1464.29 4995
10		5							✓					mark number 5, system time is Mon Oct 07 18:55:11 1991
11		5												29.56 4.7188 30.9267 24.4770 1464.86 5619
12		5												mark number 6, system time is Mon Oct 07 18:55:52 1991
														25.33 4.8904 30.7876 24.3491 1465.32 6609
														mark number 7, system time is Mon Oct 07 18:56:32 1991
														20.28 4.9654 30.6971 24.2695 1465.43 7557
														mark number 8, system time is Mon Oct 07 18:57:02 1991
														14.53 5.1004 30.4700 24.0754 1465.61 8283
														mark number 9, system time is Mon Oct 07 18:57:30 1991
														9.49 6.1492 28.5310 22.4287 1467.34 8943
														mark number 10, system time is Mon Oct 07 18:57:54 1991
														4.90 6.1647 28.5262 22.4232 1467.32 9519
														mark number 11, system time is Mon Oct 07 18:58:21 1991
														1.78 6.1690 28.5227 22.4197 1467.28 10173



24

Ship: SURVEYOR										CHOEX / ICE																	
Consec. Cast #		Latitude		Longitude		Date JD = 280			Time, GMT		Dry Bulb	Wet Bulb	Bar. mb	SS.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.					
Deg.	Min.	Deg.	Min.	Day	Mo.	Yr.	Hr.	Min.																			
58	65	40	9	N	168	10	9	W	07	0	7	19	45	0	8	-	0	4	18		002	14	29	SA10			
CTD Type & SN SEABIRD				Monitor Checks on Deck:				at Surface:				Times Data on				JD/Time				Data Location				Remarks			
Press. SN				Press. 32464				32468				at Surface				Start Down				Floppy Number				TAPE			
Temp. SN				Temp. 6933				7065				at Bottom				1945								1530 - 1950			
Cond. SN				Cond. 3633				8661				Start Up												Called SA1000CT			
Data Off																											
Pos.	Bot. #	Trip	Time		Monitor Values				Sample Bottle Numbers					Comments													
		Depth	at depth	trip	Press.	Temp.	Cond.	Other	Sol.	O2	180	Nut.	Chl.														
1		24							✓					SA10.mrk:													
2		20												mark number 1, system time is Mon Oct 07 19:43:01 1991													
3		15												24.14 5.3322 30.4160 24.0079 1466.64 2154													
4		10												mark number 2, system time is Mon Oct 07 19:43:29 1991													
5		5												19.14 5.3446 30.4042 23.9972 1466.60 2847													
6		SFC							✓					mark number 3, system time is Mon Oct 07 19:44:00 1991													
7														14.96 5.3622 30.3851 23.9802 1466.58 3585													
8														mark number 4, system time is Mon Oct 07 19:44:32 1991													
9														10.15 5.6354 29.8324 23.5133 1466.91 4353													
10														mark number 5, system time is Mon Oct 07 19:45:03 1991													
11														5.03 5.4200 29.3440 23.1507 1465.33 5088													
12														mark number 6, system time is Mon Oct 07 19:45:34 1991													
														1.83 5.3286 29.2380 23.0766 1464.77 5829													