001 Site Acoustic Release fest 1 State 50 47,157 N	1 S Lat: 50 47, 167 N
Cruise # 12-21	Lon: 47, 17, 73 N
Cast #: 00/	A Water Depth: 2822 M
Date: 08/02/2017	R CTD Depth: 0 M
Operator: LH	UTC Time: //:20
SeaBird Filename: AK21_001 hex	

B Lat:	O Lon:	T Water Depth	T CTD Depth:	O UTC Time:	
N +01.167 N	W SH +1.61	pth: 2822 M	th: 0 M	B: //:20	

Lat:		
O Lon:	3	
T Water Depth:		
T CTD Depth:	1000 M	M
O UTC Time:	:	
M Altimeter:	20 %	30 MIR 500V

Lat:	E Lon:	N wate	D CT0	UTC	
Lat:	Lon:	Water Depth:	CTD Depth: 1000 14	UTC Time:	

5	OCEAN OBSERVATORIES INTIATIVE
50.47.150 N	M 076 to 0th
Lat:	Ш ; Ш

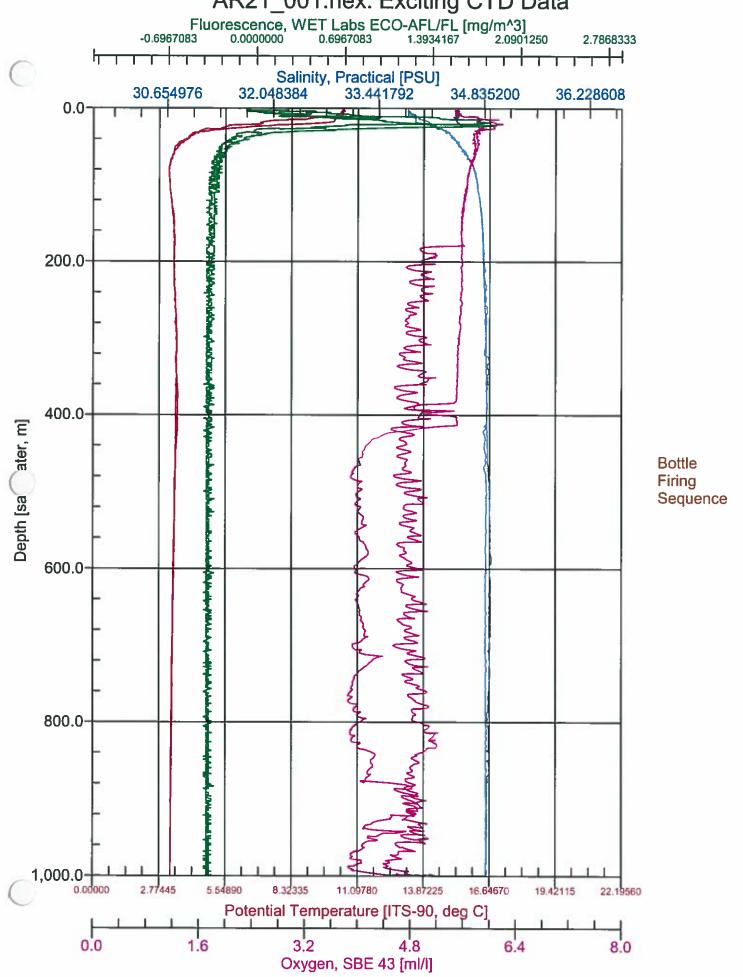
1.44.12	76 tl off	apth:	oth: 0 M	4:21 :0
Lat: シ	E Lon:	N Water Depth:	D сто Depth:	UTC Time:

	Z	1 2	វ
	U	2	c Nodes
	C		S
	E	×	
		7	
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1	- 1	1.0	

			-		 			
	Comments		i					
	LN Tube							
hyll	Brawn Bottle Volume							
Chlorophyll	Filter Sample #							
	Bottle #							
Nitrate	Bottle 1							
Salts	Bottle #							
ысларн	DIC/TA Bottle #							
DICT	Bottle # Ph Bottle							
Oxygen	Bottle #	1						10
	Salinity							
	Potential Temp				i i			
	Trip Depth					ä		Ŷ
	Target Depth		71					
	Time							
	Niskin #							

Notes: No Samples taken

AR21_001.hex: Exciting CTD Data



OOI Site Acoustic Relace 1657 2

Cruise # AR 21

Cast #: 002

Date: 06/02/2017

Operator: LH
SeaBird Fliename: AR21_062. hex

S Lat: 50° 47.155 N

T Lon: 47° 17.969 W

A Water Depth: 2622 M

R CTD Depth: 0 M

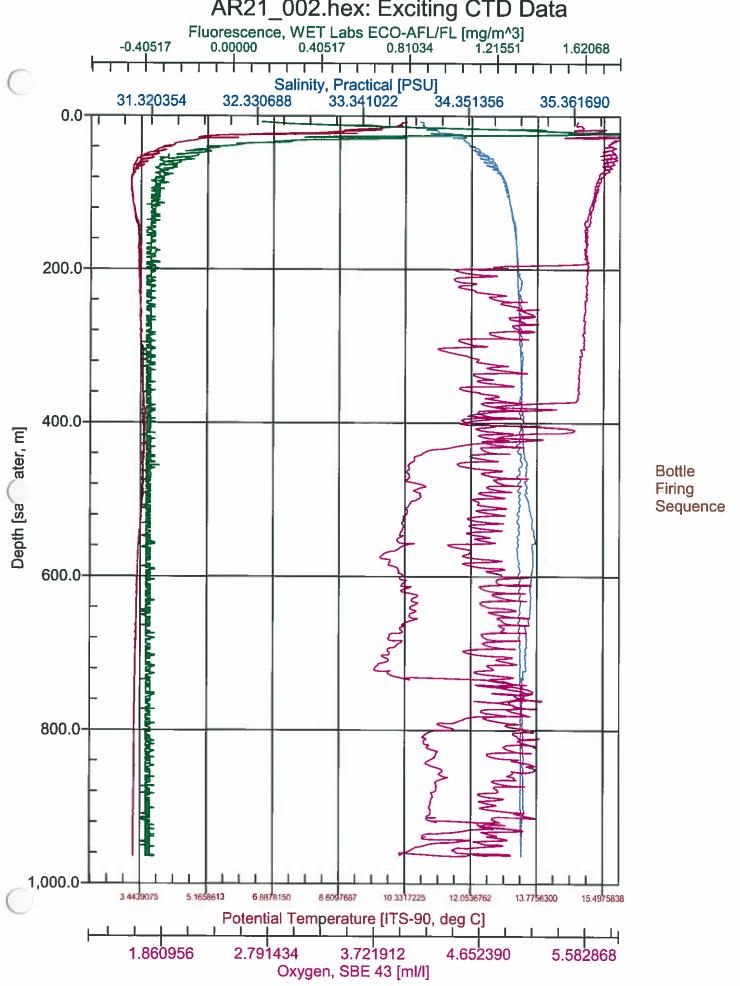
T UTC Time: 13:12

Lon: Vater Depth: CTD Depth: UTC Time: Akimeter:	Lat:	E Lon:	N wate	Осто	UTC	
	B Lat:	Lon:	Water Depth:	CTD Depth:	O UTC Time:	M Altimeter:

OCEAN OBSERVATORIES INITIATIVE		TANDOUT.	NO5	Scale Nodes
E Lon:	N water Depth:	D CTD Depth:	UTC Time:	

						 		 - 11	 	
		Comments								
		LN Tube			112					
l lind	nyn.	Brown Bottle Volume								
	Ciliorophyli	Filter Sample #	.00							
		Brown Bottle #								
	Nitrate	Bottle 1								
	Saits	Bottle #								
	DIC/ (A/pri	DIC/TA Bottle #								
2	3	Bottle # Ph Bottle #								
	Oxygen	Bottle #	8							6
		Salinity								
		Potential Temp								
		Trip Depth								1 32
		Target Depth		121					I	
		Time					I			L
		Niskin #								

; Drong Lt back to surface hue to enconcering from bles Notes: /// AR21_002.hex: Exciting CTD Data



001 Site Acoustic Release test 2 263 . hex SeaBird Filename: ALZI-AR-21 05/02 003 Cruise # Operator: Cast #: Date:

S Lat: 50° 47, 133 N T Lon: 47° 18 26.7 W A Water Depth: 2827 R CTD Depth: O M T UTC Time: 14:10 0

B Lat:
O Lon:
T Water Depth:

T CTD Depth: 1000 M
O UTC Time: 14:34
M Altimeter: 14:14 50 %

Lat: 500 47,183 N

UTC Time: 15:55

OCEAN OBSERVATORIES INTIATIVE E Lon: 47.19.012 W

N Water Depth:

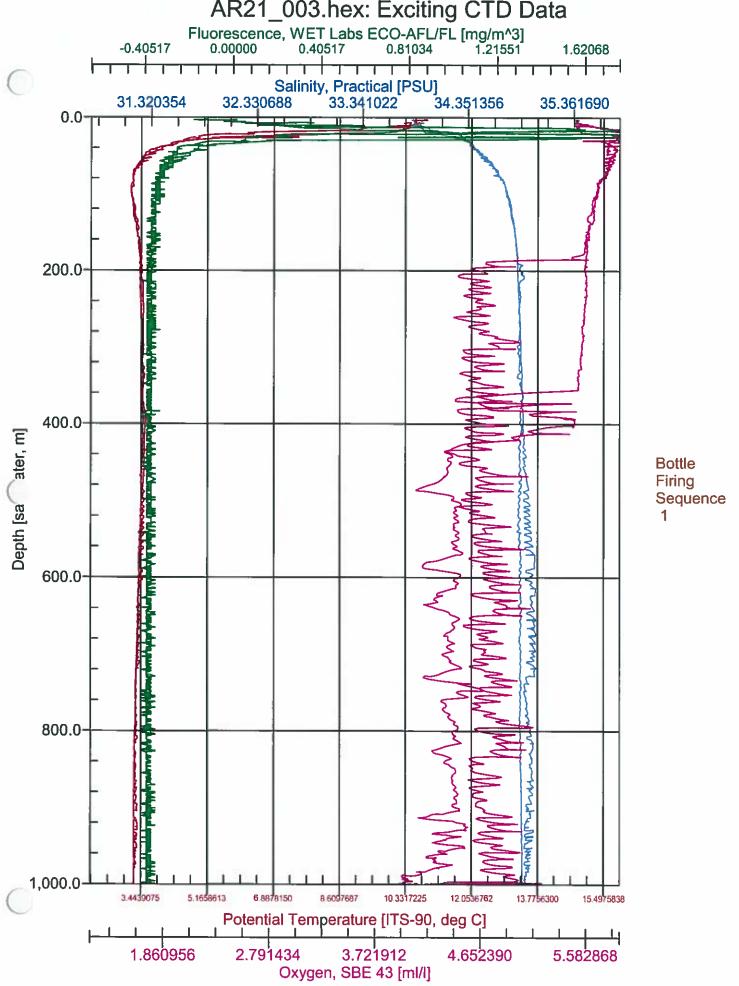
D GTD Depth: OM

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	Comments							
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				1	:			
	eqn							
	LN Tube		<u> </u>				 	
	wn tle me							
hyll	Brown Bottle Volume							
Chlorophyll	ple #							
ַל	Filter Sample #		,					
	Fiite							
	Brown							
	_					 		
Nitrate	Bottle 1							
Salts	Bottle #							
	DIC/TA Bottle #							
DIC/TA/PH	Bott					,		
들 이	Bottle #							
<u> </u>	# #							
Oxygen	Bottle # Ph Bottle							100
6								
	Salinity							
	S							
	ıtial							
	Potential Temp							
	Trip Depth							1/3
						25		
	Target Depth							
		1						
	Time			 				
	Niskin #							
	N N							

Notes: No Samples talen

AR21_003.hex: Exciting CTD Data



001 Site Aroushe Release lest 3 SeaBird Filename: Ap21-004 ... hex Date: 08/02/2017 Cruise # 412 - 21 Cast#: 604 Operator:

47.18E	19.090	2822 M	OM	15:51
S Lat: 500	Lon: 47°	Water Depth:	R CTD Depth:	UTC Time:

B Lat:	O Lon:	T Water Depth:	T CTD Depth:	O lite Time:
7.188	9.090	822 M	OM	15.7

	60		DO M	16	KIN. SOAL
		Water Depth:	CTD Depth: 1000	UTC Time: 14	Altimeter: 30 A
3	Con:	T Wate	Тсто	Outc	M Altim

200	
L-7-	6
2	
Q	5
0	7
N	
att	1
ات	-
	Ц

	Lon: 47	Water Depth:	CTD Depth:	UTC Time:	
-	6		0	4	
	0		N	2	

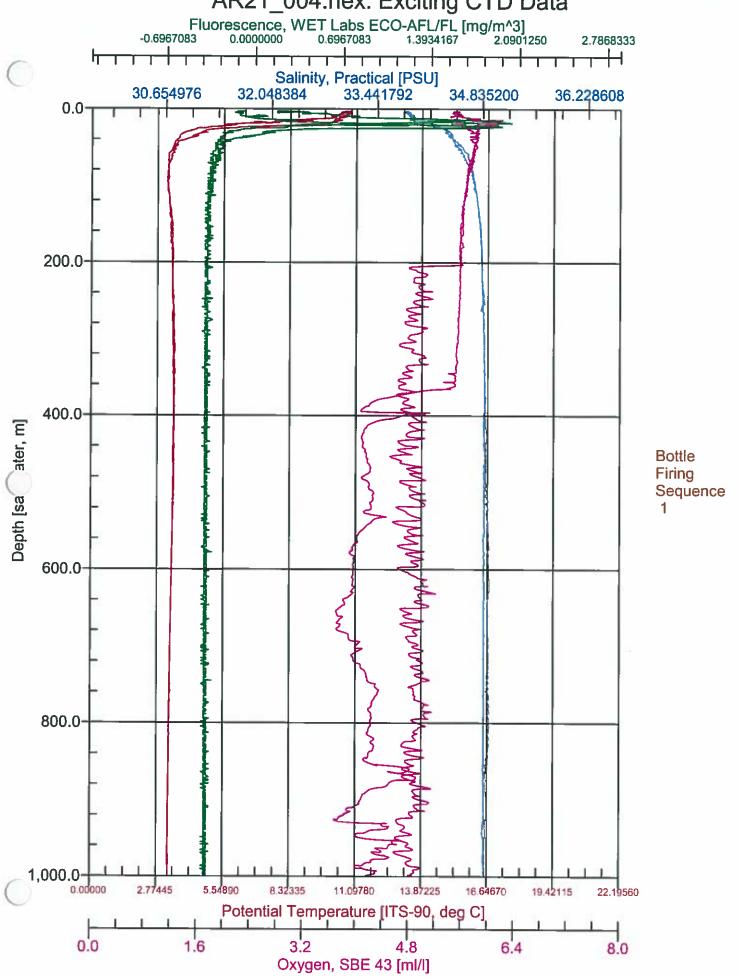
	OCEAN OBSERVATORIES INITIATIVE	THOUSE	このし	COBSTAI & CIODAI
	19.088	DHO	17:24	

Coastal
×

			000	 	 		- 1	5.5	
	Comments								
	LN Tube								
hytl	Bottle Volume								
Chlorophyll	Filter Sample #								
	Brown Bottle #								
Nitrate	Bottle 1								
Salts	Bottle #			_					
DIC/TA/pH	DIC/TA Bottle #								
DIC	Ph Bottle #		ı						
Oxygen	Bottle #	0.							64
	Salinity								
	Potential Temp						-		
	Trip Depth					- V			2).
	Target Depth		33						
	Тіте								
	Niskin #								

Notes: //

AR21_004.hex: Exciting CTD Data



001 Site	Alcoustic Release test	y S La
Cruise #	AR 21	_ - -
Cast#:	200	A
Date:	08/02/2017	%
Operator:	TH	T U
SeaBird Fi	SeaBird Filename: 4/7/ 44K hex	

188	086	2822 MI	OM	00
471	19.	282	0	: 1
500	430	Nater Depth:	CTD Depth:	rime: /
Lat:	Lon:	Nater	CTD	UTC Time:

D Lat:		Lat:
O Lon:		E Lon:
Water Depth:		N Water C
T CTD Depth:	1000 M	D CTD De
O UTC Time:	18:02	UTC TI
M Altimeter:	30 Kun Sas	7

50.47 189	80 81, th	Water Depth:	
Lat:	E Lou:	N Wat	

	8	
50°47 189	880 bl.th	
Lat:	Lon:	
	ш	9

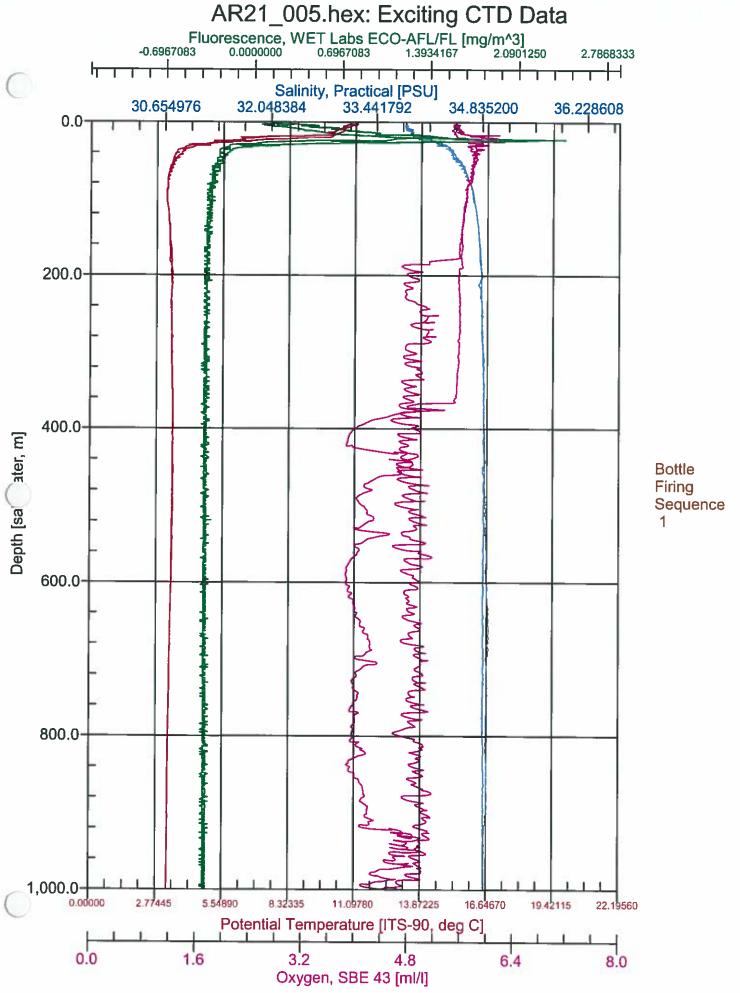
	OR	70:61
water Depth:	CTD Depth:	UTC Time:

6	14
2 18	0 61
P. 05	170
at:	:00

	Z	obal es
	U	S S S
		A E
1	H	0
	-	9
ı	1	

	2.5								
	Comments								
	LN Tube								
hyll	Brown Bottle Volume								
Chlorophyll	Filter Sample #								
	Brown Bottle #								
Nitrate	Bottle 1								
Salts	Bottle #								
DIC/TA/pH	DIC/TA Bottle #						:	:	-
DICT	Ph Bottle								
Oxygen	Bottle #								
	Salinity								
	Potential Temp								
	Trip Depth								
	Target Depth	*	J. Sept.	10 1					
	Тіле								
	Niskin #								

Notes: 1/8 Samples taken



001 Site Acoustic Release test 5 SeaBird Filename: ARZI_006 ... hex 08/02/2017 Cruise # AX. 2. 000 Operator: Cast #: Date:

Z S Lat: 50, 47, 189 T Lon: 47, 19, 087 0 51 A Water Depth: 2822 R CTD Depth: T UTC TIME:

B Lat: O Lon:

M Altimeter: 30 min Seak Т СТD Depth: 1606 О UTC Time: 19:40 Water Depth:

E Lon: 47° 19 087
N Water Depth:
OCTD Depth: OM

OCEAN OBSERVATORIES INITIATIVE

Lat: 50, 47, 189

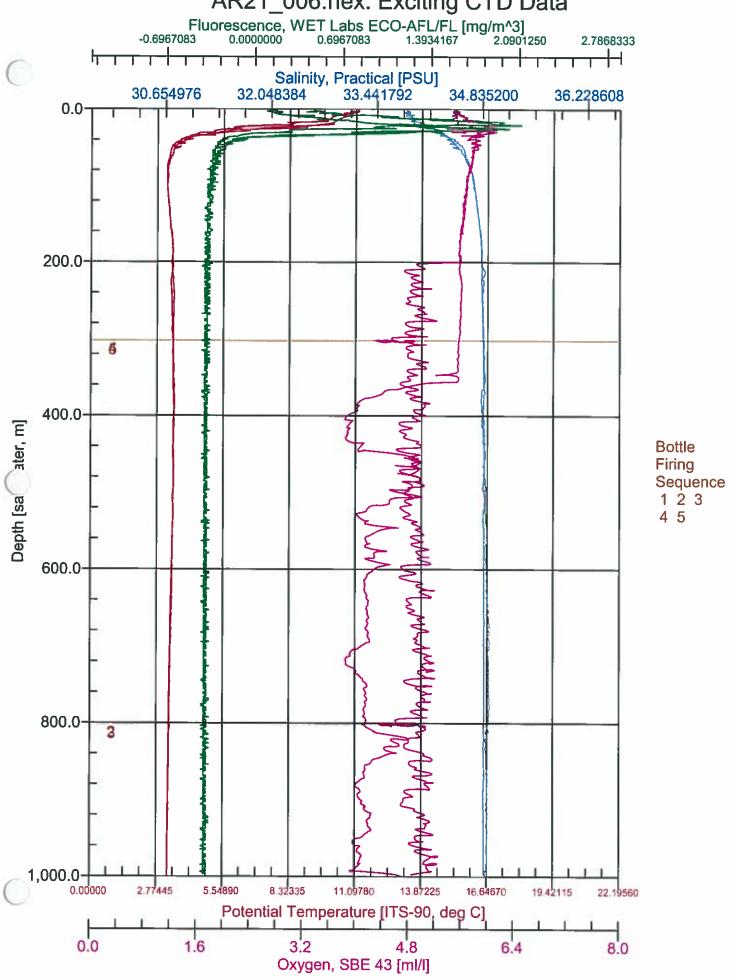
UTC Time: 20:40

Coastal & Global Scale Nodes

		6										
		Comments		CTD 02 0 4 72		CTD 02 ~ 4.54		-				
		LN Tube										
	mym.	Brown Bottle Volume										
	Chiorophyn	Filter Sample #										
L		Bottle #										
7	Mirate	Bottle 1								i		
4	CIETA	Bottle #										
U.JATOIC	uda	DIC/TA Bottle #										
	5	Bottle # #										
	Oxygen	Bottle#										
		Salinity	28 45	34.86	Н	24,86	п					
		Potential Temp										
		Trip Depth										
		Target Depth	1000M	800 K	Ħ	300 M	ļi					
		Time										
		Niskin#	1	2	3	4	5					

5 bottles fred for testine oz, salininometer Notes:

AR21_006.hex: Exciting CTD Data



S Lat: 590 55 578 OOI SITE / DE SURLE CARE)

Cruise # AR21

Date: 8 Operator:

Cast #:

T Lon: 39 0 30 973

A Water Depth: 27/1 M

R CTD Depth: 0M

T UTC Time: 20:2/

T CTD Depth: |500 M T Water Depth: 27/1 B Lat: 59 55.

M Altimeter:

.hex

SeaBird Filename: 1821_007

Lat: 59 : 55

Lon: 39 : 3c

N water Depth: 27 | 1

D CTD Depth: 6M

UTC Time: 21:52

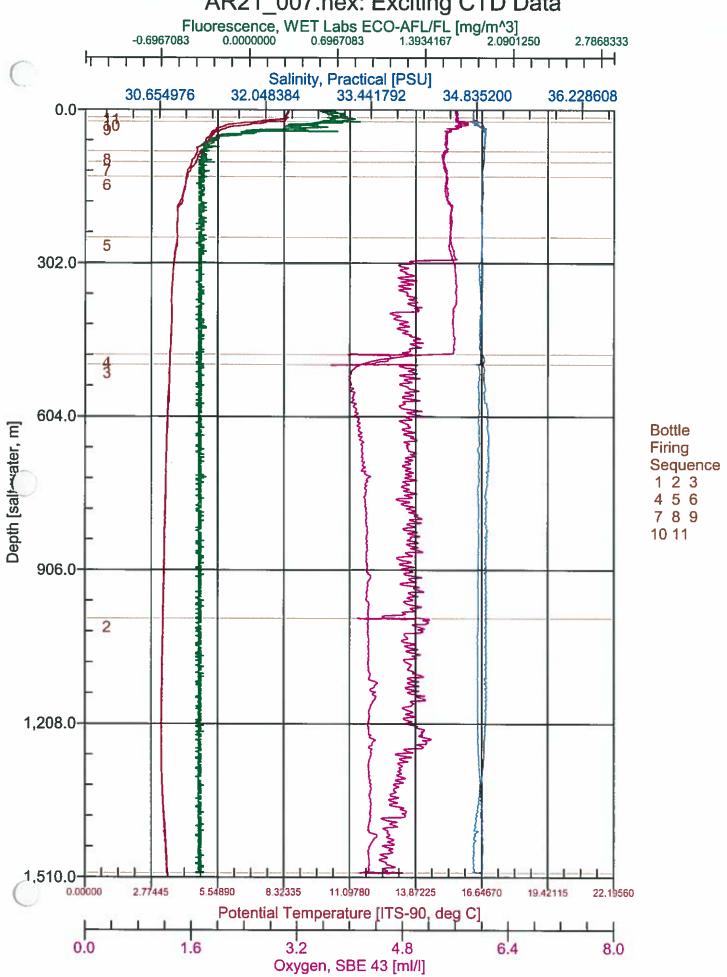
	8	
5	2/3	1127
7	3	
59,	39	ater Depth:
ä	Ë	ater



		_					_						
	Comments				Semple Cysom	12						368	
	LN Tube												1
phyll	Brown Bottle Volume						1860		1058	1653		4501	1055
Chlorophyll	Filter Sample #						07/01		201.60	07/03		40/40	30/65
	Brown Bottle#						-		2	W		4,5	9
Nitrate	Bottle 1	7-1		7-2				4.5				3-6	77
Salts	Bottle #	,	2	N	h	5	7	7	00	9	9/	11	12
DIC/TA/pH	DIC/TA Bottle #						1087	1089	1090	1091	1093	1095	1017
DICA	Bottle # Ph Bottle							1088			1092	1094	2696
Oxygen	Bottle #	/	7	M	h	5	9	7	8	4	01	11	71
	Salinity	34.90	34.85	34.86	34.88	34.90	34.91	34.92	3492	34.94	34.78	3478	34.99
	Potential Temp	1 94604											
	Trip Depth	1500	1000	500	087	250	130	100	80	10	20	13	3
	Target Depth	1500	1000	500	084	250	130	100	80	40	20	13	2
	ТІтв	15:07	20:12	21:12	21:13 480	21:19	21:12	21:13	57:12	21:27	87:17	21:29	15.12
	Niskin#	1	7	3	4	5	9.	7	60	6	01	//	4
,													

Notes: WSkin

AR21_007.hex: Exciting CTD Data



OOI Site Irainer HYPM Site Cruise # Ap 2

Date: 8 /6 /2016 Cast#: 008

SeaBird Filename: 1121_ 008 Operator:

.hex

Lon: 39, 29, 314 W S Lat: 59° 58,167 N

B Lat: 59 ' 58.249 N O Lon: 39 ' 30, 616 W T Water Depth:
T CTD Depth:
O UTC Time:
M Attimeter:

A Water Depth: 2694 M

0 1

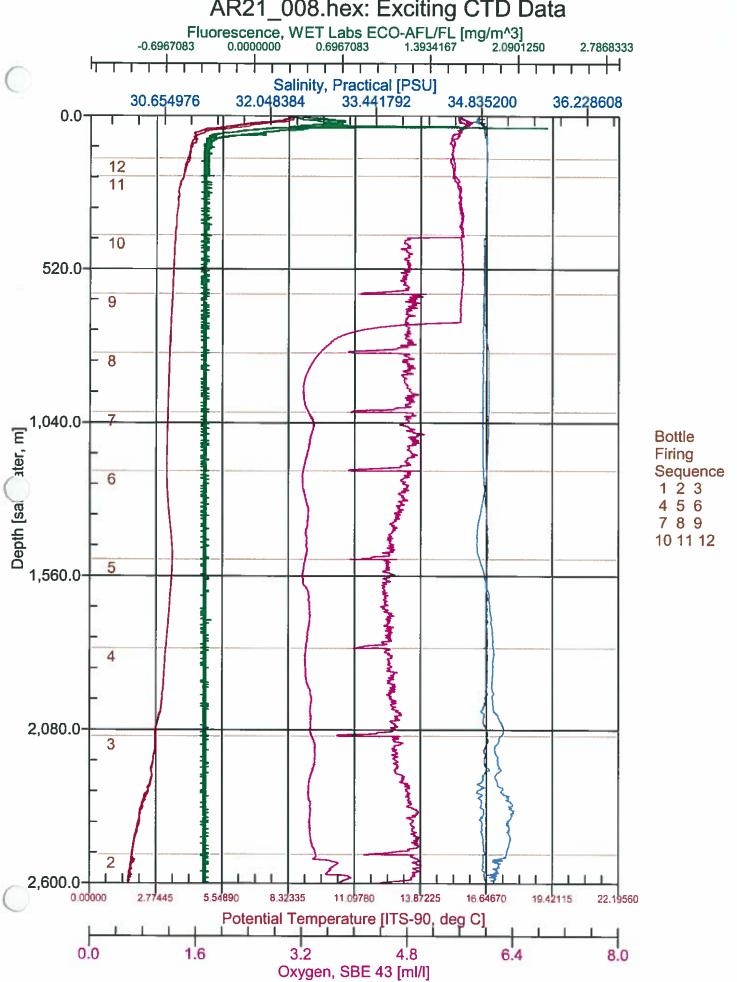
R CTD Depth: O M T UTC Time: 14: 44

19th 50° 58'7 LLG

	OCEAN OBSERVATORIES INITIATIVE		THOOLINE	Nの5000	Scale Nodes
77 20 47	E Lon: 39 º 30 º 615	N water Depth:	D CTD Depth: OM	UTC Time: /2 : 36	
8 1 1 2 1	30.616 W	th: 26 94 M	1500 M	15:35	

-		-		-						_		
Comments			Ī						-0			
-												
LN Tube												
Brown Bottle Volume												
Filter Sample #												
Brown Bottle #												
Bottle 1												
Bottle #	12	13	14	18 In	16 19	1716	1817	1918	Dero	2120	2h	1322
DIC/TA Bottle #												
Ph Bottle #												-/
Bottle #	12	13	111	15/14	1615	IT 16	1817	MR	25 B	2/2	West	Bri
Salinity	34.90	34.88	34,91	34.90	34.91	34.86	58.68	34.85	34.87	34.88	34.90	34.90
Potential Temp												
Trip Depth	2400	2500	5607	1399	1499	1199	999	299	599	399	199	139
Target Depth	2400	2500	2100	1800	1500	1200	1800	600	1,00	400	200	139
Time	15:35	15.38	14:41	55:51	15:59	50:91	16:10	16:14		16:23	16:27	12 16:30 139
Niskin#		7	2	4	5	9	t	00	8	9/	//	12
	Time Target Trip Depth Temp Salinity Bottle# Ph Bottle# Bottle# Bottle# Bottle# Bottle# Bottle# LN Tube Volume Volume	Time Target Trip Depth Temp Salinity Bottle# Ph Bottle# Bottle# Bottle# Bottle# Bottle# Bottle# Bottle# Sample# Bottle# Volume Volume Volume	Time Target Depth Trip Depth Potential Temp Salinity Ph Bottle # B	Time Target Depth Trip Depth Potential Temp Salinity Bottle # Bott	Time Target Depth Trip Depth Temp Potential Salinity Bottle # Bot	Time Depth Trip Depth Temp Salinity Bottle # Ph Bottle DICTA Bottle # Bottl	Time Target Trip Depth Potential Salinity Bottle # Ph Bottle DICTA Bottle #	Time Target Trip Depth Temp Solite # Ph Bottle DICTA Bottle # Bott	Time Target Trip Depth Potential Salinity Bottle # B	Time Target Trip Depth Potential Salinity Bottle # Ph Bottle Bottle #	Time Tangat	Time Target Trip Depth Potential Salinity Bottle # Partie Dictra Bottle # Bot

AR21_008.hex: Exciting CTD Data

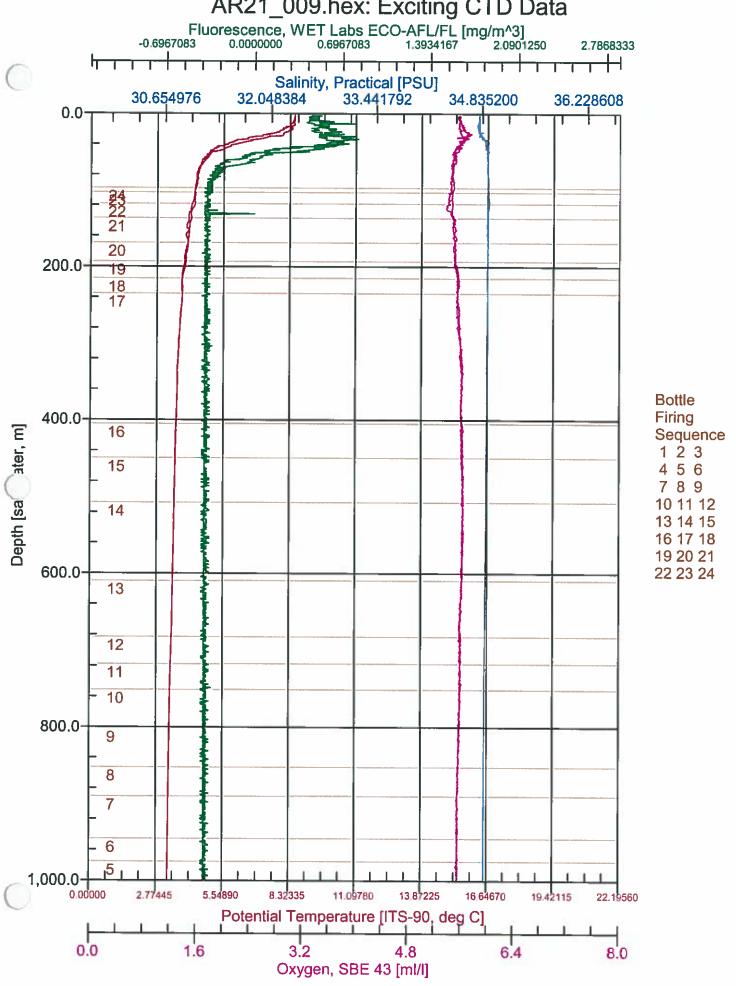


)))()()	OOI/CGSN Station and Sampling Log	.og	
DOI Site Trst Cast	S Lat:	B Lat:	Lat:	3
Cruise #	Т Соп:	O Lon:	E Lon:	OCEAN OBSERVATORIES INITIAL
Cast #: 069	A Water Depth:	T Water Depth:	N Water Depth:	
Date: 8/6/2017	R CTD Depth:	T CTD Depth:	D CTD Depth:	- Congress
Operator: 5555	T UTC Time:	O UTC Time:	UTC Time:	のもつ
SeaBird Filename:	hex	M Altimeter:		Scale Nodes

	93							
	Comments							
	LN Tube							
phyli	Brown Bottle Volume							
Chlorophyll	Filter Sample #							
	Bottle #							
Nitrate	Bottle 1							
Saits	Bottle #							
DIC/TA/pH	DIC/TA Bottle #							
	Ph Bottle							
Oxygen	Bottle #	-						
	Salinity		-					
	Potential Temp							
	Trip Depth							
	Target Depth							
	Тітв							
	Kiskin #						 	

Notes: No Damples taken

AR21_009.hex: Exciting CTD Data



OOI Site IMITUGE FLAND STO SeaBird Filename: ALZI_010 .hex 8/7/2016 Operator: LH Cruise # 1187 Cast #: 0/ Date:

Niskin #

A water Depth: 2848 M
R CTD Depth: 0 M
T UTC TIME: 16:11 S Lat: 59 ° 42, 932 N T Lon: 39 ° 70, 250 W

B Lat: 59. 42.972N
O Lon: 29.20.291W
T Water Depth: 2848 M
T CTD Depth: 280 M

O UTC Time: 17:06

M Altimeter: 2-0.8 M

D CTD Depth:

UTC Time: /8:09

N Water Depth: 2848 M

U Lat: 59. 42.		OCEAN
Lat:		
Lat:	N	4
Lat:	2	6
Lat:		
Lat:	5	12
_ _	W	7
». Э.	Lat:	Lon:
>₁.		Ш
	7	/

	0
	DEEANO
Lat: 59. 42"	In. 290 200
_ '	Ш
2.972N	10,10
100	

						Oxygen	DIC/TA/pH	Aph	Salts	Nitrate		Chlorophyll	hyll		
# Time Target Trip Depth Temp	Trip Depth	Trip Depth	Potential Temp	55	Salinity	Bottle #	Bottle # Ph Bottle	DIC/TA Bottle #	Bottle #	Bottle 1	Brown Bottle #	Filter Sample #	Bottle Volume	LN Tube	Comments
17:13 2600 2400			60	W	34 89	_			/						
17:21 2200 2200	2200	2200	3,	3	3492	7			2						
17:28 1800 1800 34	1800	1800	34	39	34.92	3			W						
17:34 1500 1500 34	1500		34	34	1,90	4			ή						
17:44 1000 1000 34	1000		36	32	34. M	5		ĺ	72						
48 05F 05F PH: F1	750		34	34	87	9			9						
17:57 350 350 34	350		74	34	34.88	7			7						
PS 931 981 19:81	031 081	031	24	34	16.48	90			2						
130 130	130 130	130	35	36	34.91	4			9						
18:84 90 90 30	90 90		20	W	34.92	0/			0/						
+	+			l	Ī		Ī								

t

Notes:

1058 1040

1,2 09/02 10/60

12 1096 1897

34.91

20

100

12 18:07

34.93

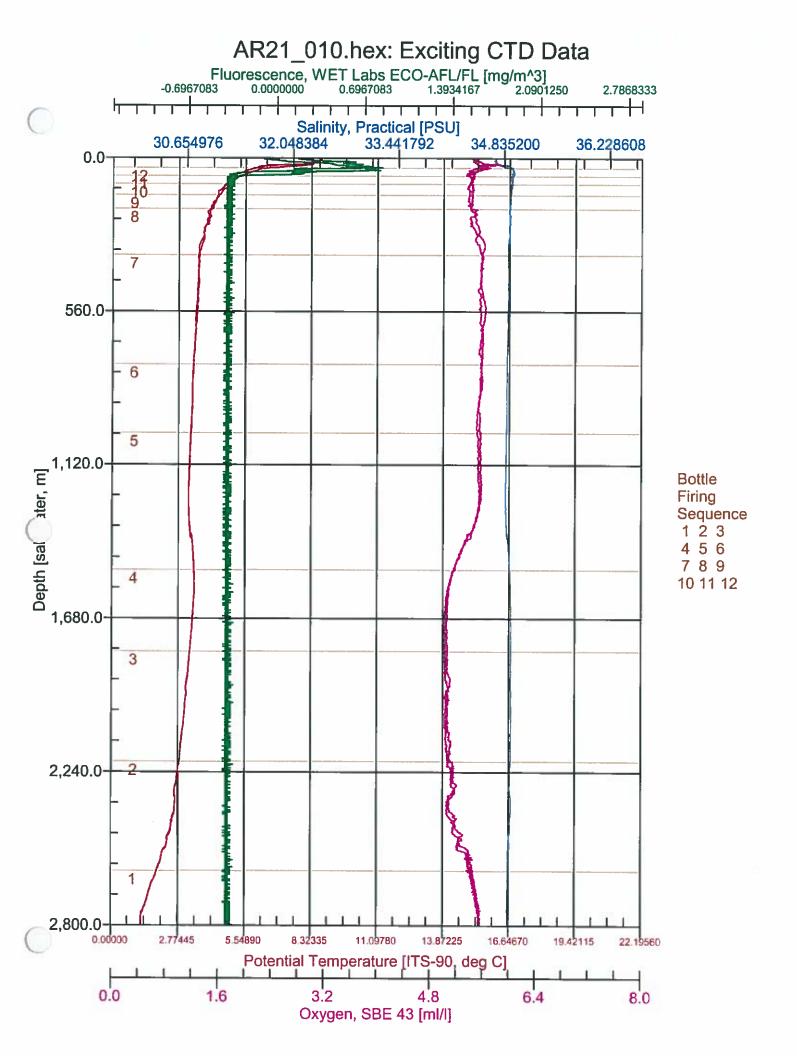
0

50

50:81

2

T



001 Site Irminger FLMA Site Cruise # AR 2

Date: P/8/2017 Cast#: 0/ Operator: L//

.hex SeaBird Filename: A RZI - 611

Niskin #

7

59° 46.163 N

0 10 15:52 S Lat: 57°
T Lon: 37°
A Water Depth:
R CTD Depth:
T UTC Time: /3

B Lat: 59° 46, 175 M
O Lon: 39' 51, 663 W
T Water Depth: 272 | M
T CTD Depth: 2644 M
O UTC Time: 16:44
M Attimeter: 48,7 M

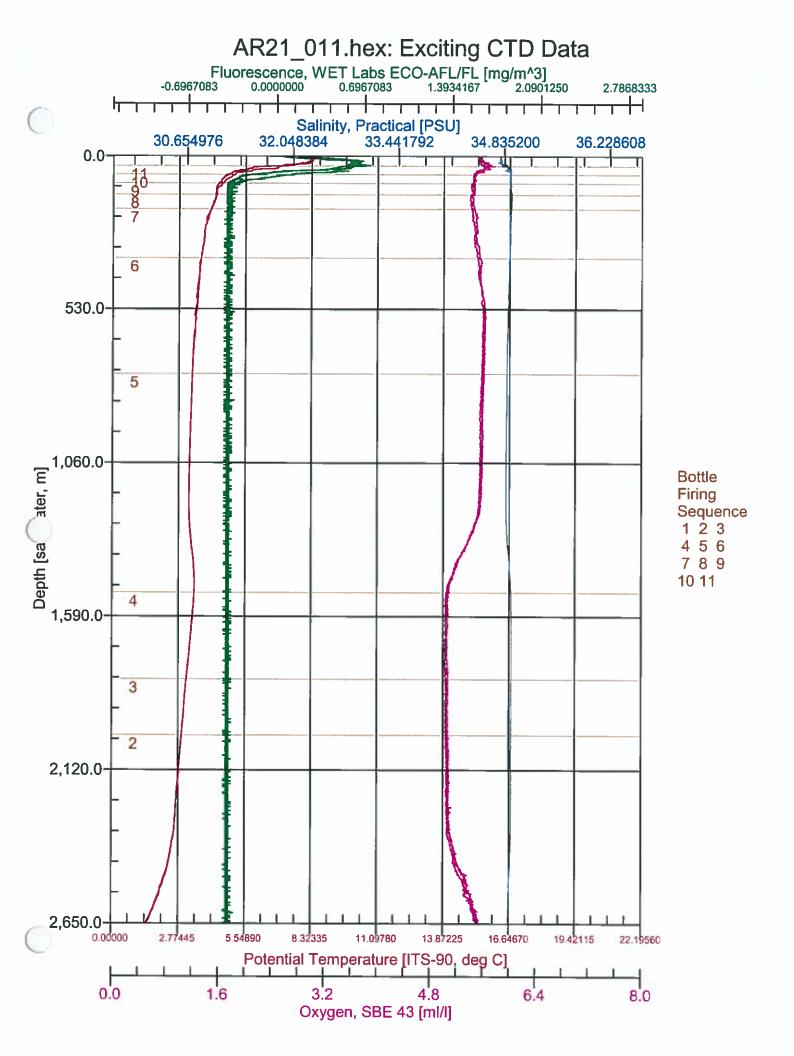
Lat: 59' 46.

	39.51.	N Water Depth: 2721 M	n OM	14:45
	E Lon:	N Water Dep	D CTD Depth:	UTC Time:
11 76.170 10	: 39' 51.663 W	er Depth: 2721 M	Depth: 2644 M	Time: 16:44

	Comments												
	LN Tube								-				
llyll	Brown Bottle Volume												8501
Chlorophyll	Filter Sample #			:									11/01
	Brown Bottle#												711
Nitrate	Bottle 1			:									
Salts	Bottle #	13	14	15	91		Ł1	18	61	20	22	21	23
DIC/TA/ pH	DIC/TA Bottle #												1099 23
DIC	Bottle # Ph Bottle			/		1							23 1098
Oxygen	Bottle #	13,	14	15	V 9/		13.	18	18	20	21.	22	23
	Salinity	34.88	34.92	34.92	34.92	34.85	34.86	34. 90	34,91	3491	34 90	34 90	34.83
	Potential Temp												
	Trip Depth	2644	4661	56t1	1499	4 8001	750	350	180	130	90	19	31
	Target Depth	26.50	7.000	1800	1501	1860	750		08/	130	90	60	30
	Time	16:44 2650	10:57 7.000	17:02	80:61	17:19	17:24 750	17:32 350	17:36	17.38	17:40	17:42	17:43 30

Notes: No

Co



001 Site Irminear 6 1. der Box Cruise # 4221

Cast#: 0/2 Date: 8

4/2017 Operator: LH

SeaBird Filename: AP 21 _ 012 .hex

S Lat: 59° 51, 215 N

T Lon: 39° 07. 686 W

A Water Depth: 2840 M

R CTD Depth: 0 M

T UTC Time: 12:59

B Lat: £96 51,214 N
O Lon: 350 07 689 W
T Water Depth: 2840 M
T GTD Depth: 1000 M
O UTC Time: 13:22

UTC Time: 18:48

Lat: 59' 51.214 N

E Lon: 39'67 L88W

N Water Depth: 2840 M

O CTD Depth: OM

OCEAN OBSERVATORIES INITIATIVE

	Comments												
	LN Tube												
lbude	Brown Bottle Volume							1000	1058	1053	4501	1057	5501
Chlorophyll	Filter S.							12/01	12/02	12/03	12/64	(2/05	12/06
	Bottle #							-	7	W	ħ	5	9
Nitrate	Bottle 1	12-1				7.21	12-3	4-21		12-5	12-6	12-7	
Spite	Bottle #	11.7	7	3	4	3	9	t	دكر	9	9/	//=	721
DICITAINH	DIC/TA Bottle #												
COLO	문												
Ovvo	Bottle #		7	B	4	5	2	7	Ö	6	10	//	12
	Salinity	34.86		88 78		34.90		34 90		34.82		34.73	
	Potential Temp												
	Trip Depth	1000	1000	56E	399	399	399	50	50	30	30	2.5	2.5
	Target Depth	0001	900/	208	800	408	400	50	53	30	30	2,5	2.5
	Time	13:22	13:22	13.27	25.81	13:35	13:35	13:43	13:43	13:45	13:45	18:	15:
	llskin #.	-	7	2	4	8	e	4	8	5	10	11	12

AR21_012.hex: Exciting CTD Data

