

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	17	0	3	SFA

Hour (UTC)	Minute	Latitude	Longitude
06 start 07 end	05 start 02 end	54.25971° N 54.226.202	46.8.307° E 46.8.001 end

Case ID L

Day
 Night

Depth (dBar)		Wind (knots)		Sea state (bft)
Bottom	Max profile	Speed	Direction	
3360	1500	17.25	104.2°	11-2 ft

CTD-Rosette reference file AT34003

Mesh size L
Case ID

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottle	Comments
1	1	1500m 1400	L3	
2	2	1250m 1237	L4	air leaking
3	3	1000m 1003	L5	"
4	4	750m 756	L6	air
5	5	500m 501	L7	air
6	6	400m 400	L8	air
7	7	300m 300	L9	
8	9	200m 201	L10	
9	11	150m 151	L11	
10	13	100m 101.5	L12	air leaking from the
11	15	75m 77	L13	air
12	17	50m 50.2	L14	air
13	19	25m 26	L15	air
14	21	10m 12.3	L16	good / air
15	23	5m 5.9	L17	

air leaking
air
good
air
good

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	18	1	3	SLA

Hour (UTC)	Minute	Latitude	Longitude
Start 0600	5: 00	Start: 56° 20.139	Start: 46° 2.965'
End	6: 00	End: 56° 20.139 ^N	End: 46° 11' °E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	3530	1500	4.23 7.66	81.3 77.3°	1-2

CTD-Rosette reference file

AT34006

Case ID
Mesh size

V and D

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500m 1499	V1, V2, V3	
2	2	1250m 1250	V4, V5, V6	
3	3	1000m 1001	V7, V8, V9	
4	4	750m 751	V10, V11, V12, V13	
5	5	500m 501	V12, V13, V14, V15	
6	6	400m 403	V16, V17, V18	leaking
7	7	300m 300	V19, V20, V21	
8	9	200m 200	V22, V23, V24	
9	11	150m 150	V25, V26, V27	
10	13	100m 100	V28, D1, D2	
11	15	75m 76	D3, D4, D5	
12	17	50m 52	D6, D7, D8	
13	19	25m 23	D9, D10, D11	
14	21	10m 8	D12, D13, D14	
15	23	5m 6	D15, D16, D17	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	20	2	3	Sda

Hour (UTC)	Minute	Latitude	Longitude
06	05		
07	46	53° 33.089' N	42° 15.561' E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day					
<input checked="" type="checkbox"/> Night	3576	1560	22.91	314.5°	1-3

CTD-Rosette reference file

AT34012.hex

Case ID
Mesh size

V/D

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500 1501.4	D1 D2 D3	
2	2	1250 1250.7	D4 D5 D6	
3	3	1000 1001.3	D7 D8 D9	
4	4	750 750.6	D10 D11 D12	
5	5	500 500.3	D13 D14 D15	
6	6	400 400.7	D16 D17 D18	
7	7	300 300.6	D19 D20 D21	
8	9	200 201.3	D22 D23 D24	
9	11	150 150.4	D25 D26 D27	
10	13	100 101.1	D28 V1 V2	
11	15	75 76.2	V3 V5 V6	
12	17	50 49.0	V7 V8 V9	
13	19	25 25.0	V10 V11 V12	
14	21	10 10.4	V13 V14 V15	
15	23	5 6.0	V16 V17 V18	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	22	3	3	SJA

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
06 0600	0726	50° 12.484 'N	43° 50.779 °E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night (morn)	4238	1500	11.31	314.5	1-2

CTD-Rosette reference file AT34018

Case ID LD

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500 A: 1500	L1 L2 L3	leaking (possibly)
2	2	1250 A: 1250	L4 L5 L6	
3	3	1000 A: 1000	L7 L8 L9	
4	4	750 A: 750	L10 L11 L12	
5	5	500 A: 500	L13 L14 L15	
6	6	400 A: 400	L16 L17 L18	
7	7	300 A: 300	L19 L20 L21	
8	9	200 A: 200	L22 L23 L24	
9	11	150 A: 150	L25 L26 L27	
10	13	100 A: 100	L28 D1 D2	
11	15	75 A: 77.4	D3 D4 D5	
12	17	50 A: 50	D6 D7 D8	
13	19	25 A: 25.7	D9 D10 D11	
14	21	10 A: 10.7	D12 D13 D14	
15	23	5 A: 6.0	D15 D16 D17	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	24	4	3	lla

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
0605	0736	47 40.083 °N	39 9.787 °E

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	4569	1500	16.59	286°	1-5

CTD-Rosette reference file AT34023

Case ID L/D

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500 1501	L1 L2 L3	
2	2	1250 1254	L4 L5 L6	
3	3	1000 1000	L7 L8 L9	
4	4	750 751	L10 L11 L12	
5	5	500 502	L13 L14 L15	
6	6	400 401.3	L16 L17 L18	
7	7	300 300.6	L19 L20 L21	21 - air
8	9	200 201.3	L22 L23 L24	
9	11	150 151	L25 L26 L27	
10	13	100 101	L28 D1 D2	
11	15	75 78	D3 D4 D5	
12	17	50 50.1	D6 D7 D8	
13	19	25 25.2	D9 D10 D11	
14	21	10 10.4	D12 D13 D14	
15	23	5 5.6	D15 D16 D17	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	25	4-Day2	37	8fa

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
0601	0725	47° 34.801' °N	38° 50.902' °E

Day
 Night

Depth (dBar)		Wind (knots)		Sea state (bft)
Bottom	Max profile	Speed	Direction	
4506	1500	9.89	274.4°	1-2

CTD-Rosette reference file AT34027

Case ID V/P

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500 1500	V1 V2 V3	
2	2	1250 1251	V4 V6 V7	
3	3	1000 1001	V8 V9 V10	
4	4	750 750	V11 V12 V13	
5	5	500 500	V15 V16 V17	
6	6	400 398.4	V18 V19 V20	
7	7	300 300	V21 V22 V23	
8	9	200 200	V24 V25 V26	
9	11	150 149.4	V27 V28 P1	
10	13	100 97.6	P2 P3 P4	
11	15	75 72	P6 P7 P8	delay for 8
12	17	50 47	P9 P10 P11	
13	19	25 22	P12 P13 P14	used method ^{o.c.c} fill 4 times ^{then} cap (no d.m.A)
14	21	15 7.2	P15 P16 P17	"
15	23	5 2.6	P18 P19 P20	"

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	26	4-Day 3	Deep Cast-Mare	SJA

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
0604	0736	47° 23.504 °N	38° 42.435° °E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	4591	1500	14.69	195°	1-2

CTD-Rosette reference file

AT34032

Case ID

L.D.P

Oxygen Titration Bottles

#	Niskin Bottle #	Depth (m)	Sample Bottles	Comments
1	1	1500 A: 1500	L3 L6	
2	2	1250 A: 1250.8	L9 L12	
3	3	1000 A: 1000.3	L15 L18	
4	4	750 A: 753	L21 L24	
5	5	500 A: 500.7	L27 D2	
6	6	400 A: 401	D5 D8	
7	7	300 A: 301.5	D11 D14	
8	9	200 A: 200.7	D17 D18	
9	11	150 A: 151	D19 D20	
10	13	100 A: 100.2	D21 D22	
11	15	75 A: 75.8	D23 D24	
12	17	50 A: 50.3	D25 D26	
13	19	25 A: 25.1	D27 D28	
14	21	10 A: 10.1	P21 P22	
15	23	5 A: 5.3	P23 P24	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	27	4-Day 4	Deep Cast Morning	SJA

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
0604	0726	47° 20.012' °N	38° 17.135' °E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	497	1500	8.36	264.4°	1-3

CTD-Rosette reference file

AT34837

Case ID

L/D

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500	L1 L2 L3	
2	2	1250	L4 L5 L6	
3	3	1000	L7 L8 L9	
4	4	750	L10 L11 L12	
5	5	500	L13 L14 L15	
6	6	400	L16 L17 L18	
7	7	300	L19 L20 L21	
8	9	200	L22 L23 L24	
9	11	150	L25 L26 L27	
10	13	100	L28 D1 D2	
11	15	75	D3 D4 D5	
12	17	50	D6 D7 D8	
13	19	25	D9 D10 D11	
14	21	10	D12 D13 D14	
15	23	5	D15 D16 D17	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	05	29	5	Deep Cast Morning	S.L.A.

Start Time (UTC)	End Time (UTC)	Latitude	Longitude
0605	07	44° 45.8' °N	43° 41.026' °E

	Depth (dBar)		Wind (knots)		Sea state (bft)
	Bottom	Max profile	Speed	Direction	
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	4821	1500	9.08 knots	59.8°	1-5

CTD-Rosette reference file AT34042

Case ID L/D

Oxygen Titration Bottles

#	Niskin Bottle #	Depth	Sample Bottles	Comments
1	1	1500 A: 14.99	L1 L2 L3	
2	2	1250 A: 1250	L4 L5 L6	
3	3	1000 A: 1000	L7 L8 L9	
4	4	750 A: 751	L10 L11 L12	
5	5	500 A: 500	L13 L14 L15	
6	6	400 A: 403	L16 L17 L18	
7	7	300 A: 300.3	L19 L20 L21	
8	9	200 A: 201	L22 L23 L24	
9	11	150 A: 150.4	L25 L26 L27	
10	13	100 A: 100.9	L28 D1 D2	
11	15	75 A: 75.8	D3 D4 D5	bubble
12	17	50 A: 52	D6 D7 D8	
13	19	25 A: 28.2	D9 D10 D11	D-10 lots of bubbles
14	21	10 A: 11.3	D12 D13 D14	
15	23	5 A: 5.5	D15 D16 D17	