

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	17	Ø	3	LKB

start

Hour (UTC)	Minute	Latitude	Longitude
06	05	54° 25.921'	46° 08.307'

early morning

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input checked="" type="checkbox"/> Day <input type="checkbox"/> Night	3360	1500	17.25	101° 2	1-2

CTD-Rosette reference file AT34003

Mesh size 150 µm

IFCB Bottles

#	Bottle #	Depth (m)	Volume (mL) Filtered	Concentrated	Concentration Factor	IFCB file
1	13	100m	1000	65		D2016517T112947
2	15	77m	1000	85		D20160517T115753
3	17	50.2	1000	82		D2016057T122541 IFCB07
4	11	151	qualitative only			did not run
5	9	201	1000	55		
6	19	26m	1000	62		D2016057T125238 IFCB07
7	21	12.3	1000	55		D2016057T132324 IFCB07
8	22	5.7	1000	62		D2016057T135004 IFCB07

* forget to measure initial volume

NAAMES
 Cruise AT33
 Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	20160518	1	3	UKB

Hour (UTC)	Minute	Latitude	Longitude
06	00	56° 20.139'	46° 29.65'

early morning

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day	3503	1500m	4.8 kts	81.3°	2.5 kts
<input type="checkbox"/> Night					

CTD-Rosette reference file AT34006

Mesh size 150 µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated	Factor	
1	9	200	1000	85		D20160518T134036
2	11	150	1000	88		D20160518T142953
3	13	100	700	80		D20160518T151604
4	15	76	1000	86		D20160518T144831
5	17	52	whole			D20160518T155128
6	19	23	whole			D20160518T161741
7	21	8	whole			D20160518T165703
8	22a	6	950	84		D20160518T172622
	22	6	whole			D20160518T175851

← not enough water in bottle

Dilution experiments (Susanne)

NAAMES
Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	18	1	1	

Hour (UTC)	Minute	Latitude	Longitude
2	30	56° 20.481'	46° 2.689'

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day					
<input checked="" type="checkbox"/> Night					

CTD-Rosette reference file AT34 004

Mesh size 150 μm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o Factor	IFCB file
			Filtered	Concentrated		
TO FROM SUSANNE'S EXPERIMENT	T0 D1	100%			100%	D20160518T121254
	T0 D2	100%				D20160518T124807
	T0 D4	100%				D20160518T131435
4						
5						
6						
7						
8						

NAAMES
Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	18	1	deep 2	LKB

Hour (UTC)	Minute	Latitude	Longitude
15	07	56° 20.819' N	46° 2.627' W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input checked="" type="checkbox"/> Day <input type="checkbox"/> Night	3522m	1500m	-	-	-

CTD-Rosette reference file AT34 007

Mesh size 150 μ

In deep cast 1 I saw diatom chains @ 75 m
washed to repeat to see if still present.

IFCB Bottles

#	Bottle #	Depth	Volume (mL)	Concentrated	Concentration	IFCB file
1	15	75	1000	75		D20160518T1835
2	14	50	75 1000	82		D20160518T1924
3						
4						
5						
6						
7						
8						

NAAMES
Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	19	1 day 2	Bio cast 2	UCB

Hour (UTC)	Minute	Latitude	Longitude
04.1	19	56° 15.864 N	45° 59.134 W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	3608	300 m	-	-	-

CTD-Rosette reference file AT34009

Mesh size 150 μm

Susanne's experiment

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration	IFCB file
			Filtered	Concentrated		
To 1	D1	100%	—	—		D20160519T155611
To 2	D2	100%	—	—		D20160519T163222
To 3	D4	100%	—	—		D20160519T170132
4						
T _{final} 5	D3	20%				D20160520T142537 D20160520T142537
6	D3	100%				D20160520T145344
7						
8						

Time
run
15:56

deep cast 1

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	20	2	3	LBH

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

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day	3576	1500m			
<input type="checkbox"/> Night					

CTD-Rosette reference file AT34012

Mesh size 150µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o Factor	IFCB file
			Filtered	Concentrated		
1	9	266.1	1000	68		D20160520T100247
2	11	150.4	1000	79		D20160520T102943
3	13	101.1	1000	87		D20160520T105614
4	15	76.1	whole			D20160520T120111
5	17	49.0	whole			D20160520T122724
6	19	25	whole	whole		D20160520T125440
7	21	10.4	whole			D20160520T132117
8	22	6				D20160520T134729

Station 2 day 4 Bio cast 2 AT34011

NAAMES

Cruise AT34

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	20	2	2	LKB

Hour (UTC)	Minute	Latitude	Longitude
04	20	53° 33.182 N	42° 15.943 W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day	3576	300m			
<input type="checkbox"/> Night					

CTD-Rosette reference file AT34 011

Mesh size 150 µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration Factor	IFCB file
			Filtered	Concentrated		
1	To surface					D20160520T093422
T _{2h} 2	20'f. WSW		20% dilution	38% log ₁₀		D20160521T164054
J ₂₄ 3	40'f. WSW		WSW	- " -		D20160521T161338
4						
5						
6						
7						
8						

Station 2 day 2 Bio Cast 2

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	21	2	day 2 Bio 2	

Hour (UTC)	Minute	Latitude	Longitude
04	22	53° 28.702' N	42° 4.498' W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day		300m			
<input type="checkbox"/> Night					

CTD-Rosette reference file _____

Mesh size _____

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration Factor	IFCB file
			Filtered	Concentrated		
D3	1	5m	light	whole sea water		D20160521T143357
D2	2	11m	T zero	↓		D20160521T150150
O1	3	24m	-	↓		D20160521T153219
D2	4	11m	T Anal	Zo %		D20160522T132332
D2	5	11m	T Anal	WSW		D20160522T125358
	6					
	7					
	8					

station 3 deep cell 1

NAAMES
Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	22	3	3 AT34018	

Hour (UTC)	Minute	Latitude	Longitude
06	00	43° 50.777' 50° 12.484' N	43° 50.777' W

Depth (dBar)	Wind (knots)	Sea state		
Bottom	Max profile	Speed	Direction	(bft)
	1500			

Day
 Night

CTD-Rosette reference file AT34 018

Mesh size 150

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration Factor	IFCB file
			Filtered	Concentrated		
1	9	200	1000	80		D20160522T091225
2	11	150	1000	82		D20160522T094254
3	13	100	1000	70		D20160522T101203
4	15	77.4	whistle			D20160522T110450
5	17	50	↓			D20160522T103843
6	19	25.7				D20160522T113129
7	21	10.7				D20160522T115945
8	22	6.0				D20160522T120620

win
 this
 before
 15ml

AT34017 S3 - Day 1

NAAMES

Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	21	3	2	

Hour (UTC)	Minute	Latitude	Longitude
04	09	50° 14.551	43° 51.347

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night		300			

CTD-Rosette reference file AT34017

Mesh size 100

IFCB Bottles

70 green label

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated	Factor	
1	T2000	5m	WSW			D20160523T124711
2	T1000	5m	WSW	100%	38% light	D20160523T121334
3	T1000	5m	20% WSW		38% light	D20160523T124711
4						
5						
6						
7						
8						

Station 3 ^{Day} 82 AT34020

NAAMES

Cruise AT334
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	23	3	Day 2 Cast 1	

Hour (UTC)	Minute	Latitude	Longitude
02	15	49° 08.050'	43° 56.900'

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night		360			

CTD-Rosette reference file AT34020

Mesh size 150

IFCB Bottles

pink label
green label

#	Bottle #	Depth	Volume (mL)		Concentrat ^o Factor	IFCB file
			Filtered	Concentrated		
1	1 zero	5m	100% WSW			D20160523T132329
2	1 final	- "	100% WSW			D20160524T140437
3	- " -	- " -	20% WSW			D20160524T143158
4						
5						
6						
7						
8						

AT34021 5m

NAAMES

Cruise AT34021

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	24	4	B56 A42	

Hour (UTC)	Minute	Latitude	Longitude
02	30	47° 39.360' N	39° 11.398' W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day					
<input checked="" type="checkbox"/> Night					

CTD-Rosette reference file AT34021

Mesh size 100µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated	Factor	
1	Tzero	5m				D20160524T134409
2	T1	5m	100% used	38% light		D20160524T135949 D20160525T143113
3	T24	5m	20%	138% light		D20160525T132312
4	mem of T1			100% light		D20160525T171854
5						
6						
7						
8						

Yellow label
124 sticker

100%

samples for christina
st 3 5m 72h Inc
D20150525T162612
run another sample
T24 20% light (susanne)
D201605T165225

Station 4 deep cast 1

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	24	4	deep 1	

Hour (UTC)	Minute	Latitude	Longitude
06	05	47° 40.083' N	39° 9.787' W

Depth (dBar)	Wind (knots)		Sea state (bft)
	Bottom	Max profile	
4569	1800m		

early morning

Day
 Night

CTD-Rosette reference file AT34023

Mesh size 150

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration Factor	IFCB file
			Filtered	Concentrated		
1	9	20.3	Whole water sample			D20160524T091349
2	11	18.1	↓			D20160524T093943
3	13	10.1				D20160524T100702
4	15	7.8				D20160524T103300
5	17	50.1				D20160524T105911
6	19	25.2				D20160524T113331
7	21	10.4				D20160524T120438
8	22	5.6				D20160524T120635

321/5m

AT34026

NAAMES

Cruise AT33 ³⁴
 Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	25	4	516 day 2	

Hour (UTC)	Minute	Latitude	Longitude
04:12		47° 31.747'	38° 52.938'

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day					
<input type="checkbox"/> Night					

CTD-Rosette reference file AT034026

Mesh size 150 µm

IFCB Bottles

yellow label

DI

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated		
1	Tzero	5m	100%	WSW		D20160525T140106
2	Tfinal	5m	20%	WSW		D20160526T100845
3	"	5m	100%	WSW		D20160526T093605
4	Tfinal	100m	100%	WSW		D20160526T103942
5						
6						
7						
8						

day 2 deep cast II

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	25	4	deep 2	

Hour (UTC)	Minute	Latitude	Longitude
06	01	47° 34.809 38° 50.902	38° 50.902'

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input type="checkbox"/> Night	4806	1800m			

CTD-Rosette reference file AT34 027

Mesh size _____

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ⁹ Factor	IFCB file
			Filtered	Concentrated		
1	9	200	white			D20160525T092034
2	11	180				D20160525T094726
3	13	100				D20160525T102354
4	15	75				D20160525T105616
5	17	51				D20160525T112249
6	19	26				D20160525T115135
7	21	11.8				D20160525T122749
8	22	5.7				D20160525T125443

AT34036

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5				

Hour (UTC)	Minute	Latitude	Longitude

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day					
<input type="checkbox"/> Night					

CTD-Rosette reference file _____

Mesh size _____

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentration Factor	IFCB file
			Filtered	Concentrated		
1	1200	5m	100% WSW	D4		D20160527T094839
2	1200	7m	100% WSW	D4		
3	Final	5m	100% WSW			No samples were run
4	"	"	20% WSW			No sample was run
5			>200µ WSW + caps			
6						
7						
8						

AT34031

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	26	4	510 cast 2	

Hour (UTC)	Minute	Latitude	Longitude
04	12	47° 24.465	38° 40.548.

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night	300m				

CTD-Rosette reference file AT34031

Mesh size _____

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o Factor	IFCB file
			Filtered	Concentrated		
1	Tzero	5m	100% wsw	D201605	26T144832	D20160526T144832
2	Tprod	5m	20% wsw	38% light		D20160527T084944
3	- " -	- " -	100% wsw	38% light		D20160527T092232
4						
5						
6						
7						
8						

Handwritten notes:
Tzero
Tprod

AT34041

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	28	5	bio	

Hour (UTC)	Minute	Latitude	Longitude
04	16	44° 13.566'	43° 43.437'

	Depth (dBar)	Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction
<input type="checkbox"/> Day <input checked="" type="checkbox"/> Night		300m		

CTD-Rosette reference file AT34041

Mesh size 150µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated		
1	T0	5m	100%	Wsw		D20160529T0855A
2	Tg	5m	100%	Wsw	38% light	D20160531T123741
3	Tf	5m	20%	Wsw	38% light	D20160531T131241
4						
5						
6						
7						
8						

Tpd 31 May 2016!

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	27	4	Deep 1	

Hour (UTC)	Minute	Latitude	Longitude
06	04	47° 20.912 N	38° 17.135

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input type="checkbox"/> Day		1500m			
<input type="checkbox"/> Night					

CTD-Rosette reference file AT34037

Mesh size 150µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o Factor	IFCB file
			Filtered	Concentrated		
1	9	200	W	SW		D20160527T102211
2	11	150				D20160527T105413
3	13	100				D20160527T112021
4	15	75				D20160527T114945
5	17	49				D20160527T122032
6	19	26				D20160527T124912
7	21	11				D20160527T132931
8	22	6.1				D20160527T140416

NAAMES

Cruise AT334

Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	26	4	14 Shallowline cast 2	NH

Hour (UTC)	Minute	Latitude	Longitude
22		47° 19.791' N	38° 38.566' W.

Depth (dBar)		Wind (knots)		Sea state
Bottom	Max profile	Speed	Direction	(bft)
300	4500	14.8	212	2

at night but high cloud cover / misty

Day
 Night

CTD-Rosette reference file AT34034

Mesh size 150 µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file	# ROI
			Filtered	Concentrated	Factor		
1	22	4.8	whole	sea water		D20160526T230005	1220
2	21	9.8				T235122	1109
3	17	24.6				D20160527T001653	1063
4	15	40.7				T004229	651
5	11	75.7				T012230	376
6	9	100.4				T014801	301
7	7	150.9				T021738	229
8	4	200.4				T024345	

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	29	5	3	

Hour (UTC)	Minute	Latitude	Longitude
06	05	44° 4.58'	43° 41.026'

*empty
moor*

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input checked="" type="checkbox"/> Day <input type="checkbox"/> Night					

CTD-Rosette reference file AT34 042

Mesh size 150µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated	Factor	
1	9	20				D20160529T092413
2	11	150.4				D20160529T095449
3	13	100.9				D20160529T102921
4	15	76.8				D20160529T110550
5	17	52				D20160529T115801
6	19	28.2				D20160529T122731
7	21	11.3				D20160529T125356
8	22	surface				D20160529T134259

RDC

379

1636

NAAMES

Cruise AT34
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	11	4	Shallow Cast 2 Afternoon	NH

Hour (UTC)	Minute	Latitude	Longitude
20	35	47° 27.187N	138° 46.548 W

	Depth (dBar)		Wind (knots)		Sea state
	Bottom	Max profile	Speed	Direction	(bft)
<input checked="" type="checkbox"/> Day <input type="checkbox"/> Night	4600	300	2.0	280	1

CTD-Rosette reference file AT34029

Mesh size 150

IFCB Bottles

#	Bottle #	Depth (m)	Volume (mL)		Concentration Factor	IFCB file	# ROE
			Filtered	Concentrated			
1	22	5.5	whole	sea water		20160525T 21-11-35	892
2	21	11.4				T213823	949
3	17	25.8				T220440	648
4	15	51.2				T223141	376
5	11	76.2				T230103	342
6	9	100.9				T232704	274
7	7	151				T235731	179
8	4	201				T002946	136

NAAMES
Cruise AT33
Ship R/V Atlantis

YYYY	MM	DD	Station	Cast	Investigator
2016	5	26	4	12	Web

Hour (UTC)	Minute	Latitude	Longitude
06	04	47° 23.506' N	38° 42.435' W

deep

early morning

Day
 Night

Depth (dBar)		Wind (knots)		Sea state
Bottom	Max profile	Speed	Direction	(bft)

CTD-Rosette reference file AT34032

Mesh size 150 µm

IFCB Bottles

#	Bottle #	Depth	Volume (mL)		Concentrat ^o	IFCB file
			Filtered	Concentrated	Factor	
1	9	200.7				D20160526T083700
2	11	150				D20160526T090443
3	13	100.1				20160526T111338
4	15	75.8				20160526T114101
5	17	50.3				20160526T121133
6	19	25.1				20160526T125305
7	21	10.1				20160526T132423
8	22	5.3				20160526T141641