

VESSEL <b>Ocean Starr</b>		CRUISE ID <b>OS-19-01</b>		PROJECT & LEG Arctic IERP 2019		STATION NO. <b>S H</b>	
CONSC CAST #		LATITUDE		LONGITUDE		Bongo: <b>RZA</b>	
DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)
074	69	29	38	17	SEP	2019	1710
DRY BULB		RH (%)		Pressure (mb)		WIND DIRN. (deg)	
WIND SPD. (kts)		WIND DIRN. (deg)		WIND SPD. (kts)		BOTTOM DEPTH (m)	
STA. NAME/ID		STA. NAME/ID		STA. NAME/ID		STA. NAME/ID	
SBE 9+ _____		Fluor/Turbidity _____		WEATHER OBS: <b>Wind 18 kts @ 1000</b>		MAX DEPTH = <b>46</b> m	
PRESS SN _____		SBE43-Oxy (prime) _____		REMARKS:			
Pri Temp SN _____		SBE43-Oxy (sec) _____					
Sec Temp SN _____		Altimeter _____					
Pri Cond SN _____		PAR S/N _____					
Sec Cond SN _____							
Instrument Notes:							
Recorder Initials:							
NIS No	Depth	Rosette Notes	Hydro Team-FMEL		Chloro		Comments
No	Desired	Salt	Nut.Btl	O2-Btl.No	HAPB	GFF Vol	
1	561	233	430	1291		X	FA5
2	40		431				
3	40					X	
4	30		432			X	
5	30					X	
6	20		433			X	
7	10					X	
8	10					X	
9	10					X	
10	10		434			X	
11	0		435			X	
12	0					X	
1		Inline					

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
Ocean Starr		OS-19-0		Arctic IERP 2019		S H	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
075 69 29.99 N		16 70 5.79 W		17 SEP 19		2114	
SBE 9+		Fluor/Turbidity		WEATHER OBS: Wind ~ 15 kts		MAX DEPTH = 46 m	
PRESS SN		SBE43-Oxy (prime)		REMARKS: Underway surface drifter			
Pri Temp SN		SBE43-Oxy (sec)		NOT 441			
Sec Temp SN		Altimeter		285			
Pri Cond SN		PAR S/N		GIF			
Sec Cond SN							
Instrument Notes:							
Recorder Initials:							
Nis Depth		Rosette Notes		Hydro Team-PMEL		Chloro	
No Desired		Salt		Nut.Bil O2-Bil.No		HAPB	
1 BOT				436		+	
2 20				437		+	
3 30				438		+	
4 20				439		+	
5 20				440		+	
6 10				441		+	
7 10				442		+	
8 0				443		+	
9 0				444		+	
10 0				445		+	
11				446		+	
12				447		+	
1		Inline					

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.																																																																																																																																																																																																																								
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DEG MIN		DEG MIN		DAY MO YR		HR MIN																																																																																																																																																																																																																								
576 69 29.60 N		16 54 4.53 W		18 SEP 19		16 49																																																																																																																																																																																																																								
SBE 9+		Fluor/Turbidity		WEATHER OBS: WIND ~ 20 KTS 6000 ft. sea.		MAX DEPTH = 32 m																																																																																																																																																																																																																								
PRESS SN		SBE43-Oxy (prime)		REMARKS:																																																																																																																																																																																																																										
pH Temp SN		SBE43-Oxy (sec)																																																																																																																																																																																																																												
Sec Temp SN		Altimeter																																																																																																																																																																																																																												
pH Cond SN		PAR SN																																																																																																																																																																																																																												
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				Bongo:		RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
079 6845.04 N		16829.72 W		19 SEP 2019		2357	
						DRY BULB (°C)	
						RH (%)	
						Pressure (mb)	
						WIND DIRN. (deg)	
						WIND SPD. (kts)	
						BOTTOM DEPTH (m)	
						51	
						STA. NAME/ID C14H601	
						MAX DEPTH = 48 m	

  

SBE 9+		Fluor/Turbidity	
PRESS SN		SBE43-Oxy (prime)	
Prt Temp SN		SBE43-Oxy (sec)	
Sec Temp SN		Altimeter	
Prt Cond SN		PAR SN	
Sec Cond SN			

  

Instrument Notes:

  

REMARKS:  
 underway samples taken  
 bot: 461  
 oxy: 870  
 chl

  

Recorder Initials:

  

NIS	Depth	Rosette Notes	Hydro Team-PMEL				Chloro	Comments	NIS
			Salt	Nut Br	O2-Bit No	HAPB			
No	Desired								No
1	Bot		455			X	X		1
2	40		456			X	X		2
3	30		457			X	X		3
4	20		458		X				4
5	20		459			X	X		5
6	10		460			X	X		6
7	10		461			X	X		7
8	0		462			X	X		8
9	0		463			X	X		9
10	0		464			X	X		10
11									11
12									12
1		Inline							1

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
Ocean Starr		OS-19-0		Arctic IERP 2019		S H	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
080 6800.23 N		168 31.66 W		20 SEP 19		1706	
SBE 9+		Fluor/urbity		WEATHER OBS:		wind's lighter	
PRESS SN		SBE43-Oxy (prime)		REMARKS:		Two CH1 peaks at 25.4-35m on downcast	
P1 Temp SN		SBE43-Oxy (sec)		only one @ 25m on upcast		Not	
Sec Temp SN		Altimeter		Niskin 5.9 and 11 were empty next bottle sampled. Bottle failed due to dislodged O-ring. Bottle & sample lost. Labels not changed on bottles.		MAX DEPTH = 55 m	
P1 Cond SN		PAR S/N		Recorder Initials:		58 CH-501	
Sec Cond SN							
Instrument Notes:							
Fosette Notes		Hydro Team-PMEL		Chloro		Comments	
No		Salt		Nutr.Btl		O2-Btl No	
HAPB		GFF Vol		SFChla		FCM	
NPD		POP		Fluoroc		FAS	
No		No		No		No	
1 Bot		462.368		X		1	
2 40		463		X		2	
3 30		464		X		3	
4 30		465		X		4	
5 25		466		X		5	
6 25		467		X		6	
7 20		468		X		7	
8 20		469		X		8	
9 10		470		X		9	
10 10		471		X		10	
11 0		472		X		11	
12 0		473		X		12	
1		Inline				1	

VESSEL	CRUISE ID	PROJECT & LEG	Bongo:	RZA	STATION NO.
Ocean Starr	OS-19-0	Arctic IERP 2019			S H

CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID					
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
081	68 00 . 22 N	167 12 . 56 W	20 SEP 19	2248										55	CH-E02

SBE 9+	Fluor/Turbidity	WEATHER OBS:
PRESS SN	SBE43-Oxy (prime)	
Pt Temp SN	SBE43-Oxy (sec)	
Sec Temp SN	Altimeter	
Prt Cond SN	PAR S/N	
Sec Cond SN		

Instrument Notes:

Recorder Initials:

Nis	Depth	Rosette Notes	Hydro Team: PMEL	Chloro	ECM	FIONA/M	Comments	Nis	
No	Desired		Salt	Nit. Brl	O2-Brl No	HAPB	GFF Vol		No
1	BOT			x469			X		1
2	BOT								2
3	40						X		3
4	40			x470		X			4
5	30						X		3
6	30			x471					4
7	20						X		7
8	20			x472		X			8
9	10						X		9
10	10			x473					10
11	0						X		11
12	0			x474	374	X			12
1		Inline							1



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CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA NAME/ID																																																																																																																																																																								
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)																																																																																																																																																																							
0826800.19	N	16547.57	W	21	SEP	19	17	26																																																																																																																																																																													
WEATHER OBS: Clear Skys, winds light MAX DEPTH = 24 m																																																																																																																																																																																					
REMARKS:																																																																																																																																																																																					
Instrument Notes: Recorder Initials:																																																																																																																																																																																					
SBE 9+ Fluor/Turbidity PRESS SN SBE43-Oxy (pHme) P1 Temp SN SBE43-Oxy (sec) Sec Temp SN Altimeter P1 Cond SN PAR SN Sec Cond SN																																																																																																																																																																																					
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NIS No	Depth	Rosette Notes	Hydro Team-PMEL	Chloro	SPC	FCM	WPP	Fluor	PAR	Comments	NIS No																																																																																																																																																																										
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2	BOT		476			X					2																																																																																																																																																																										
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CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG		MIN		DEG		MIN	
				DAY		MO	
				YEAR		HR	
						MIN	
						(°C)	
						(%)	
						(mb)	
						(deg)	
						(kts)	
						BOTTOM DEPTH	
						(m)	
						STA. NAME/ID	
0836737	56 N	16500.14	W	22	SEP	19	0000
SSE 9+		Fluor/Turbidity		WEATHER OBS:		Light, clear skies	
PRESS SN		SBE43-Oxy (prime)		REMARKS:		Ch. Max @ 14m	
Pri Temp SN		SBE43-Oxy (sec)				See, dry sensor maybe clogged in jelly	
Sec Temp SN		Altimeter				underway samples:	
Pri Cond SN		PAR S/N				NOT: 485	
Sec Cond SN						Oxy: 371	
Instrument Notes:						Ch1	
Recorder Initials:							
N/S		Depth		Rosette Notes		Chloro	
No		Desired		Salt		GFF Vol	
				Nut. Bit		ECM	
				O2-Bit, No		FluorCAM	
				HAPB			
1	20						
2	20						
3	20						
4	14						
5	14						
6	14						
7	10						
8	10						
9	10						
10	0						
11	0						
12	0						
1							





VESSEL <b>Ocean Starr</b>		CRUISE ID <b>OS-19-0</b>		PROJECT & LEG Arctic IERP 2019		Bongo:		STATION NO. <b>S H</b>																																			
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		RH		Pressure		WIND DIRN.		WIND SPD.		BOTTOM DEPTH		STA. NAME/ID																							
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		("C)		(% )		(mb)		(deg)		(kts)		(m)															
15.08		N		16552.85		W		23		SEP		19		1650														33		C14-C003													
SBE 9+				Fluor/Turbidity																																							
PRESS SN				SBE43-Oxy (prime)																																							
Pri Temp SN				SBE43-Oxy (sec)																																							
Sec Temp SN				Altimeter																																							
Pri Cond SN				PAR S/N																																							
Sec Cond SN																																											
Instrument Notes:																						Recorder Initials:																					
<p>1 B0T 497 133</p> <p>2 B0T</p> <p>3 B0T</p> <p>4 20</p> <p>5 20</p> <p>6 20 498</p> <p>7 10</p> <p>8 10</p> <p>9 10 499</p> <p>10 0</p> <p>11 0</p> <p>12 0 500</p> <p>1 Inline</p>																						<p>Chloro</p> <p>GFF Vol</p> <p>CF Chl a</p> <p>FCM</p> <p>NPC</p> <p>RDP</p> <p>FluorCAN</p> <p>FAS.</p>																					
<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>1</p>																						<p>1</p> <p>2</p> <p>3</p> <p>4</p> <p>5</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>1</p>																					

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.	
Ocean Starr		OS-19-0		Arctic IERP 2019		Bongo: RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG		MIN		DEG		MIN	
0876		71.5		169.42		23 SEP 2145	
		N		W		19	
SBE 9+		Fluor/Turbidity					
PRESS SN		SBE43-Oxy (prime)					
Prt Temp SN		SBE43-Oxy (sec)					
Sec Temp SN		Altimeter					
Prt Cond SN		PAR SN					
Sec Cond SN							
Instrument Notes:							
Recorder Initials:							
Depth		Fosette Notes		Hydro Team-PMEL		Chloro	
No		Desired		Salt		Nut.Bil	
1		Bot				501	
2		Bot				502	
3		Bot				503	
4		20				X	
5		20				X	
6		20				502	
7		10				X	
8		10				X	
9		10				503	
10		0				X	
11		0				X	
12		0				238 504 176	
1		Inline					

VESSEL	CRUISE ID	PROJECT & LEG	STATION NO.
Ocean Starr	OS-19-0	Arctic IERP 2019	Bongo: RZA S H

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
0886652	43	N	6459	78	W	24	SEP	2019	04	40	.	.	(%)	(mb)	(deg)	(kts)	26	CH-SFOR

SBE 9+	Fluor/Turbidity	WEATHER OBS:	MAX. DEPTH =
PRESS SN	SBE43-Oxy (prime)		23 m
Pri Temp SN	SBE43-Oxy (sec)		
Sec Temp SN	Altimeter		
Pri Cond SN	PAR SN		
Sec Cond SN			

Instrument Notes:

Recorder Initials:

Nis	Depth	Rosette Notes	Hydro Team-PMEL	Chloro	SFCLIA	ECM	Flowm	SA's	Comments
No	Desired	Salt	Nut.Btl	O2-Btl.No	HAPB	GFF Vol			
1	Bot								
2	Bot								
3	Bot		506	X	X	X	X	X	
4	10								
5	10								
6	10		507	X	X	X	X	X	
7	0								
8	0								
9	0		508	X	X	X	X	X	
10									
11									
12									
1		Inline							

VESSEL: <b>Ocean Starr</b>		CRUISE ID <b>OS-19-0</b>		PROJECT & LEG <b>Arctic IERP 2019</b>		STATION NO. <b>S H</b>	
				Bongo:		RZA	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
089 6629.71 N		166 01.20 W		24 SEP 19		1631	
DRY BULB		RH		Pressure		WIND DIRN, SPD.	
(°C)		(%)		(mb)		(deg) (kts)	
						17	
STA. NAME/ID		BOTTOM DEPTH		MAX. DEPTH =		CH-B05	
				15 m			

  

SBE 9+		Fluor/Turbidity		WEATHER OBS: <b>wind 8 kts</b>	
PRESS SN		SBE43-Oxy (prime)		REMARKS:	
Prt Temp SN		SBE43-Oxy (sec)			
Sec Temp SN		Altimeter			
Prt Cond SN		PAR S/N			
Sec Cond SN					

  

Instrument Notes:

  

Depth		Rosette Notes		Hydro Team-PMEL		Chlro		Comments	
No Desired		Salt		Nut.Bt		O2-Bt No		HAPB	
1		298		509		317		X	
2		10		510		X		X	
3		10		511		X		X	
4		10		511		X		X	
5		10		511		X		X	
6		10		511		X		X	
7		10		511		X		X	
8		10		511		X		X	
9		10		511		X		X	
10		10		511		X		X	
11		10		511		X		X	
12		10		511		X		X	
1		Initials							



VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.					
Ocean Starr		OS-19-0		Arctic IERP 2019		Bongo: RZA S H					
CONSC	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
0906630	10 N	16714.77 W	24 SEP 19	2021						29	CH-B02
SBE 9+	Fluor/Turbidity	WEATHER OBS:									
PRESS SN	SBE43-Oxy (prime)	MAX DEPTH = 26 m									
Pri Temp SN	SBE43-Oxy (sec)										
Sec Temp SN	Altimeter										
Pri Cond SN	PAR S/N										
Sec Cond SN											
Instrument Notes:											
Recorder Initials:											
No	Depth	Rosette Notes	Hydro Team-PMEL	Chloro	GFF Vol	Sal	Nut.Bt	O2-Bt.No	HAPB	Comments	No
1	507			X	X						1
2	507			X	X						2
3	507		512								3
4	20			X							4
5	20										5
6	20		513								6
7	10			X	X					X chl "max"	7
8	10										8
9	10		514								9
10	0			X	X					X	10
11	0										11
12	0		515 x 290								12
1	Inline										1

REMARKS: Oxy 2 downcast - bad  
Underway samples:  
Oxy: 336  
Nut: 516  
chl:

VESSEL <b>Ocean Starr</b>		CRUISE ID <b>OS-19-0</b>		PROJECT & LEG <b>Arctic IERP 2019</b>		Bongo:		STATION NO. <b>S H</b>																																																																																																																																																																																																																																								
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		TIME (GMT) HR MIN		DRY BULB (°C)																																																																																																																																																																																																																																								
09166630.56 N		16832.16 W		26 AUG 19		1759		RH (%)																																																																																																																																																																																																																																								
								Pressure (mb)																																																																																																																																																																																																																																								
								WIND DIRN. (deg)																																																																																																																																																																																																																																								
								WIND SPD. (kts)																																																																																																																																																																																																																																								
								BOTTOM DEPTH (m)																																																																																																																																																																																																																																								
								STA. NAME/ID																																																																																																																																																																																																																																								
								51 CH-B01																																																																																																																																																																																																																																								
SBE 9+		Fluor/Trubity		WEATHER OBS: wind 12e1s		MAX DEPTH = 48 m																																																																																																																																																																																																																																										
PRESS SN		SBE43-Oxy (prime)		REMARKS: chl max @ 19m																																																																																																																																																																																																																																												
Prt Temp SN		SBE43-Oxy (sec)																																																																																																																																																																																																																																														
Sec Temp SN		Altimeter																																																																																																																																																																																																																																														
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