

### Sampling logs on Cruise SPIROPA

Station A7      Date 07/16/2019      Water depth 102m  
 Longitude -70.8300      Latitude 40.3348  
 Weather condition \_\_\_\_\_      Sampler YIFAN Zhu

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number		
12	03:29	1	94	C21-N1	C21-N1	<del>X</del>		
		3	80					
		5	60					
		8	40					
		10	27					
		12	20					
		16	10					
		18	0				C21-N18	C21-N18

Note

---



---



---



---



---





### Sampling logs on Cruise SPIROPA

Station 115      Date 07/17/2019      Water depth 1129  
 Longitude -70.8293      Latitude 39.8146  
 Weather condition \_\_\_\_\_      Sampler Yifan Zhu

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	X2	X2	X4			
				Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number			
126	15:16	1	300	C126-N1	C126-N1	X			
		2	200	C126-N2	C126-N2				
		4	100	}	}				
		6	80						
		9	72						
		12	60						
		14	50						
		18	40						
		19	30						
		20	20						
		21	10						
		23	Surface				C126-N23	C126-N23	
								C126-N10 (124)	
				10	72		X	X	C126-N16 (124)
				16	50		X	X	C126-N22 (124)
				22	0				

Note

---



---



---



---



---

### Sampling logs on Cruise SPIROPA

Station A14      Date 01/17/2019      Water depth 715  
 Longitude -70.8293      Latitude 39.8789  
 Weather condition \_\_\_\_\_      Sampler YIPAN Zhu

CTD cast	Sampling time	Niskin bottle number	Depth (m)	X2	X2	DON sampling bottle number
				Ammonium sampling bottle number	Cyanate sampling bottle number	
127	16:33	1	300	C127-N1	C127-N1	<del>X</del>
		3	200	C127-N3	C127-N3	
		6	100			
		8	80			
		12	60			
		14	44			
		17	30			
		18	22			
		20	10	C127-N23	C127-N23	
		23	0			

Note

---



---



---



---



---

### Sampling logs on Cruise SPIROPA

Station 1813      Date 07/17/09      Water depth 475  
 Longitude -70.8309      Latitude 39.9454  
 Weather condition \_\_\_\_\_      Sampler Yifan Zhu

CTD cast	Sampling time UTC	Niskin bottle number	Depth (m)	X2	X2	X4
				Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number
128	18:07	1	300	C128-N1	C128-N1	X
		3	200	C128-N3	C128-N3	
		6	100	}	}	
		8	80			
		10	60			
		12	40			
		14	32			
		17	23			
		20	10			
		24	0	C128-N24	C128-N24	
		14	33	X	X	C128-N14 (1~4)
		<del>19</del>	23			C128-N19 (1~4)
		21	0			C128-N21 (1~4)

Note

---

---

---

---

---

---

### Sampling logs on Cruise SPIROPA

Station A12      Date 07/17/2019      Water depth 268 m  
 Longitude -70.8310      Latitude 40.0108  
 Weather condition \_\_\_\_\_      Sampler Yi Fan Zhu

CTD cast	Sampling time UTC	Niskin bottle number	Depth (m)	X2	X2	X4
				Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number
129	19:11	1	258	C129-N1	C129-N1	X
		3	200	C129-N3	C129-N3	
		6	100	}	}	
		8	80			
		10	60			
		12	40			
		14	30	}	}	
		16	20			
		20	10			
		24	0	C129-N24	C129-N24	
		15	30	X	X	C129-N15 (1~4)
		<del>19</del>	10	X	X	C129-N19 (1~4)
		21	0	X	X	C129-N21 (1~4)

Note

---

---

---

---

---

---

---

---





### Sampling logs on Cruise SPIROPA

Station A10 Date 07/17/2019 Water depth 137

Longitude -70.8293 Latitude 40.1403

Weather condition \_\_\_\_\_ Sampler Yifan Zhu

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	X2		DON X4 sampling bottle number			
				Ammonium sampling bottle number	Cyanate sampling bottle number				
131	00:42	1	127	C131-N1	C131-N1	<del>X</del>			
		3	100						
		<del>4</del>	<del>80</del>						
		6	60						
		8	40						
		10	30						
		14	20						
		16	10						
		18	5				C131-N18	C131-N18	
		15	20				<del>X</del>	<del>X</del>	C131-N15 (1-4)
		12	30						C131-N12 (1-4)
		20	5						C131-N20 (1-4)

Note

---



---



---



---



---

### Sampling logs on Cruise SPIROPA

Station A9      Date 07/17/2019      Water depth ~~129~~ 121 m  
 Longitude -70.82 ~~93~~      Latitude ~~40.2043~~ 40.2696  
 Weather condition \_\_\_\_\_      Sampler Yifan Zhu

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	X2	X2	X4	
				Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number	
132	02:05	1	119	C132-N1	C132-N1	X	
		2	100	C132-N2	C132-N2		
		4	80	↓	↓		
		6	60				
		8	40				
		10	30				
		14	20				
		16	10				
		18	0	C132-N18	C132-N18		
		20	0	X	X		C132-N20
		15	20	X	X		C132-N15
		12	30	X	X		C132-N12

Note

---

---

---

---

---

---

### Sampling logs on Cruise SPIROPA

Station A8      Date 07/17/2018      Water depth 122  
 Longitude -70.8287      Latitude 40.2695  
 Weather condition \_\_\_\_\_      Sampler YIFAN ZHU

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number
133	03:05	1	110	C133-N1	C133-N1	X
		3	100	C133-N3	C133-N3	
		5	80			
		7	60			
		<del>8</del>	40			
		<del>10</del>	20			
		<del>12</del>	20			
		16	0	C133-N16	C133-N16	

Note

---



---



---



---



---

### Sampling logs on Cruise SPIROPA

Station A7      Date 07/18/2019      Water depth 103

Longitude -70.8289      Latitude 40.3346

Weather condition \_\_\_\_\_ Sampler Yifan Zhu

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number
134	24:05	<del>1</del>	<del>93</del>	<del>not closed</del>		X
		2	93	C134-N2	C134-N2	
		4	80			
		6	60			
		8	40			
		12	20			
		14	20			
		16	10	C134-M6	C134-M6	

Note

---



---



---



---



---

### Sampling logs on Cruise SPIROPA

Station   A6        Date   07/18/2019        Water depth   90    
 Longitude   -72.8290        Latitude   40.3994    
 Weather condition \_\_\_\_\_      Sampler   YIF/2m Zhr  

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number
135	05:02	1	79	X2 C135-N1	X2 C135-N1	<del>  </del>
		2	60	C135-N3	C135-N3	
		5	40	C135-N5	C135-N5	
		8	30	↓	↓	
		9	18	↓	↓	
		11	10	↓	↓	
		13	0	C135-N13	C135-N13	

Note

---

---

---

---

---

---

### Sampling logs on Cruise SPIROPA

Station AS      Date 07/18/2019      Water depth 79

Longitude -70.8301      Latitude 40.4631

Weather condition \_\_\_\_\_      Sampler YIFAN ZHANG

CTD cast	Sampling time (UTC)	Niskin bottle number	Depth (m)	Ammonium sampling bottle number	Cyanate sampling bottle number	DON sampling bottle number	
136	05:57	1	70	C136-N1	C136-M1	<del>X</del>	
		3	60	↓	↓		
		5	40				
		7	26				
		10	20				
		12	10	↓	↓		
		14	0				C136-N14

Note

---

---

---

---

---

---

---

---