

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:
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Cruise:	NF-17-03/04	Date:	5 / 9 / 2017
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CTD Instrument Package:

Date: 5 / 9 / 2017

Press-1 SN:	see
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Temp-0 SN: con

Temp-1 SN: file

Cond-0 SN: report

Cond-1 SN: ...

Oxyg-0 SN: ...

Oxyg-1 SN:	...
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The diagram illustrates the experimental setup. A participant is seated at a table, looking at a screen. On the screen, there is a horizontal line with a central point and two side points. The participant is instructed to move a cursor from the central point to one of the side points. The diagram includes labels for the participant, the screen, the cursor, and the points.

CTD Section: TEST CART → Loop Current

CTD Cast Number and File Name: NF1704-000.hex

Operator: SP

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	19:40				0.7882	27.31052	
Sea Surface (soak 1 minute):	19:49	24° 49.676'	85° 25.526'	3357	6.6857	27.26162	36.34422
End of Down-Cast:	19:58	24° 49.592'	85° 25.518'	3357	303.7		
Surface after Up-Cast:	20:14	24° 49.442'	85° 25.440'	3358			
On Deck After Cast:	20:16						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	300	303.64	18.97944	36.62476	4.97513
2	"	"	"	"	"
3	"	"	"	"	"
4	"	"	"	"	"
5	144	143.5992	26.05127	36.46989	6.17127
6	"	"	"	"	"
7	DCM	117.6157	26.49349	36.46827	6.30398
8	"	"	"	"	"
9	50	49.8503	26.99572	36.33488	6.48633
10	"	↓	↓	↓	↓
11	"	↓	↓	↓	↓
12	"	↓	↓	↓	↓
13	15	14.8813	27.04807	36.33605	6.42033
14	↓	↓	↓	↓	↓
15					
16					
17					
18					
19					
20					
21					
22					
23	↓	↓	↓	↓	↓
24	↓	↓	↓	↓	↓

Cast Remarks:

TSG Temperature: 27.233

TSG Inlet Temperature: 27.334

TSG Salinity: 36.343

Any module errors during cast?* Y / (N)

Did you draw a TSG salinity calibration sample? Y / N

Any module errors during cast?	Y / (N)
Any sensor changes/problems?*	Y / (N)

TSG sample time (GMT): Sample bottle #:

Any hardware changes/problems?*	Y / N
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TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 5 / 10 / 2017				Temp-0 SN: con			
						Temp-1 SN: file			
CTD Section: 002						Cond-0 SN: report			
CTD Cast Number and File Name: NF1704-002_hex						Cond-1 SN: ...			
Operator: T Kelly						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		12:06				0.8756	21.97826		
Sea Surface (soak 1 minute):		12:49	26° 7.298' N	87° 46.033' W	3020.49	2.9296	24.20775	36.38500	
End of Down-Cast:		12:59	26° 7.304' N	87° 46.181' W	3016.4	299.8			
Surface after Up-Cast:		13:07	26° 7.322' N	87° 46.290' W	3023.6				
On Deck After Cast:		13:09							
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature:									
TSG Inlet Temperature:									
TSG Salinity:									
Any module errors during cast?*		Y / ☒ N	Did you draw a TSG salinity calibration sample?			Y / ☒ N			
Any sensor changes/problems?*		Y / ☒ N	TSG sample time (GMT):			Sample bottle #:			
Any hardware changes/problems?*		Y / ☒ N	TSG salinity at sample time:						

NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 05 / 10 / 2017	Temp-0 SN: con
CTD Section: Gulf of Mex (central)		Temp-1 SN: file
CTD Cast Number and File Name: NF1704_004_hex		Cond-0 SN: report
Operator: KS		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	16 : 18				0.7410	27.6422	
Sea Surface (soak 1 minute):	16 : 31	26° 7.94' N	87° 46.68' W	3025	3.2046	24.3800	36.3917
End of Down-Cast:	16 : 40	26° 7.150' N	87° 46.831' W	3018			
Surface after Up-Cast:	16 : 50	26° 7.102' N	87° 46.950' W	3017			
On Deck After Cast:	16 : 53						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	15.19	24.1875	36.3781	6.79018
2	15	15.19	24.1882	36.3780	6.76004
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

Chl max ~ 100m

TSG Temperature: **24.427**

TSG Inlet Temperature: **24.551**

TSG Salinity: **36.38**

Any module errors during cast?*	Y / (N)	Did you draw a TSG salinity calibration sample?	Y / (N)
Any sensor changes/problems?*	Y / (N)	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / (N)	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log

AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NF	NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 05/10/2017		Temp-0 SN: con
CTD Section: Gulf of Mexico (Central)			Temp-1 SN: file
CTD Cast Number and File Name: NF1704-005.hex			Cond-0 SN: report
Operator: EM			Cond-1 SN: ...
			Oxyg-0 SN: ...
			Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	22:04	26° 7.276' N	87° 46.729'				
Sea Surface (soak 1 minute):	22:19	26° 7.200	87° 46.807	3018.60	3.3682	24.70479	36.38861
End of Down-Cast:	22:22	26° 7.105	87° 46.942	3017.51	300.1		
Surface after Up-Cast:	22:30	26° 7.016	87° 47.062	3017.03			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	15.9147	24.21825	36.37620	6.86376
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

chl max at 98m upcast
300m cast
0.8 Knt's 200' star
0.9 Knt's 206' end

TSG Temperature: **24.816 °C**

TSG Inlet Temperature:

TSG Salinity: **36.39154**

Any module errors during cast?*	Y / (N)	Did you draw a TSG salinity calibration sample?	Y / (N)
Any sensor changes/problems?*	Y / (N)	TSG sample time (GMT): 2231	Sample bottle #: ()
Any hardware changes/problems?*	Y / (N)	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 11 / May / 2017	Temp-0 SN: con
CTD Section: 60m (central)		Temp-1 SN: file
CTD Cast Number and File Name: NF1704-006-hex.		Cond-0 SN: report
Operator: EM		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	00:05				0.8055	25.462	36.38206
Sea Surface (soak 1 minute):	00:25	26° 6.004	87° 47.586	3022.	3.39	24.573	36.38561.
End of Down-Cast:	00:34	26° 5.962	87° 47.747	3022			
Surface after Up-Cast:	00:44	26° 5.837	87° 47.886	3021.1			
On Deck After Cast:	00:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	15.65	24.24	36.37944	6.7781
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

101m chl max down ^{vs} 0.0
chl max up ^{vs} 0.0

TSG Temperature: **24.644**
TSG Inlet Temperature: **24.527**
TSG Salinity: **36.389**

Any module errors during cast?*	Y / (N)	Did you draw a TSG salinity calibration sample?	Y / (N)
Any sensor changes/problems?*	Y / (N)	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / (N)	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 05 / 11 / 2017				Temp-0 SN: con			
						Temp-1 SN: file			
CTD Section: GOM (Central)						Cond-0 SN: report			
CTD Cast Number and File Name: NF1704-008_hex						Cond-1 SN: ...			
Operator: TKelly						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	:				NA	NA			
Sea Surface (soak 1 minute):	6:12	26° 3.527	87° 50.914W	3037.0	3.9829	24.4	36.39		
End of Down-Cast:	6:23	26° 31.40 N	87° 51.235	3045	300				
Surface after Up-Cast:	6:50	26° 29.41 N	87° 51.997	3055.7					
On Deck After Cast:	6:55								
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	100	102.063	21.78409	36.3570	6.67578				
2	"								
3	"								
4	"								
5	70	69.7638	22.2786	36.3555	6.979				
6	"								
7	"								
8	"								
9	50	49.848	22.7453	36.3755	7.0225				
10	"								
11	"								
12	"								
13	30	25.458	24.7665	36.386	6.808				
14	"								
15	"								
16	"								
17	20	20.903	24.7830	36.3862	6.8231				
18	"								
19	"								
20	"								
21	5	5.1201	24.4224	36.3918	6.7727				
22	"								
23	"								
24	"								
TSG Temperature: 24.421									
TSG Inlet Temperature: 24.524									
TSG Salinity: 36.394									
Any module errors during cast?*		Y / N	Did you draw a TSG salinity calibration sample?		Y / N				
Any sensor changes/problems?*		Y / N	TSG sample time (GMT):		Sample bottle #:				
Any hardware changes/problems?*		Y / N	TSG salinity at sample time:						

Niskin Bottle Trips:					
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	100	102.063	21.78409	36.3570	6.67378
2	"				
3	"				
4	"				
5	70	69.7638	22.2786	36.3555	6.979
6	"				
7	"				
8	"				
9	50	49.848	22.7453	36.3755	7.0225
10	"				
11	"				
12	"				
13	30	25.458	24.2665	36.386	6.808
14	"				
15	"				
16	"				
17	20	20.903	24.2830	36.3862	6.8231
18	"				
19	"				
20	"				
21	5	5.1201	24.4224	36.3918	6.7727
22	"				
23	"				
24	"				

Cast Remarks:

TSG Temperature: 74.421

TSG Inlet Temperature: 24.524

TSG Salinity: 36.394

Any module errors during cast?*

Y / (N

Did you draw a TSG salinity calibration sample?

Y / N

Any sensor changes/problems?*

$$\frac{Y}{Y+N}$$

TSG sample time (GMT):

Sample bottle #:

Any hardware changes/problems?*

	Y	N
Y	0.98	0.02
N	0.02	0.98

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	<i>NF-17-03/04</i>	Date: 5 / 1 / 2017	Temp-0 SN:	con

CTD Section:	GOM Central
CTD Cast Number and File Name:	NE1704-010, box
Operator:	JM

Press-1 SN:	see
Temp-0 SN:	con
Temp-1 SN:	file
Cond-0 SN:	report
Cond-1 SN:	...
Oxyg-0 SN:	...
Oxva-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	12:58	26° 3.260' N	87° 54.899' W	3041.10	2.7227	24.45044	36.41864
Sea Surface (soak 1 minute):	13:06	26° 3.281' N	87° 55.110' W	3039.80	2.98.5028		
End of Down-Cast:	13:14						
Surface after Up-Cast:							
On Deck After Cast:							

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	14.8578	24.43189	36.41869	6.76317
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

TSG Temperature:		
TSG Inlet Temperature:		
TSG Salinity:		
Any module errors during cast?*	Y / N	Did you draw a TSG salinity calibration sample? Y / N
Any sensor changes/problems?*	Y / N	TSG sample time (GMT): Sample bottle #:
Any hardware changes/problems?*	Y / N	TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 5 / 11 / 2017				Temp-0 SN: con			
CTD Section: GOM (Central) - VAP Cast						Temp-1 SN: file			
CTD Cast Number and File Name: NF1704-010.hex						Cond-0 SN: report			
Operator: KS						Cond-1 SN: ...			
						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	16:23				0.6811	28.37206			
Sea Surface (soak 1 minute):	16:53	26° 19.80' N	87° 56.225' W	3040	39000	38.9175	36.4250		
End of Down-Cast:	17:04	26° 19.87' N	87° 56.344' W	3044					
Surface after Up-Cast:	17:22	26.2050 N	87° 56.555' W	3040					
On Deck After Cast:	17:23				1.2328	24.7427			
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen				
1	50	50.0572	22.28427	36.36016	6.76778				
2	50	"	"	"	"				
3	40	40.9638	24.0730	36.39775	6.83277				
4	40	"	"	"	"				
5	30	30.9573	24.26207	36.40609	6.78835				
6	30	"	"	"	"				
7	20	20.8748	24.41816	36.42213	6.80354				
8	20	"	"	"	"				
9	10	10.3924	24.4909	36.41960	6.79588				
10	10	"	"	"	"				
11	4	4.2100	24.71821	36.425	6.79854				
12	4	"	"	"	"				
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature: 24.724									
TSG Inlet Temperature: 24.823									
TSG Salinity: 36.432									
Any module errors during cast?*		Y / N	Did you draw a TSG salinity calibration sample?		Y / N				
Any sensor changes/problems?*		Y / N	TSG sample time (GMT):		Sample bottle #:				
Any hardware changes/problems?*		Y / N	TSG salinity at sample time:						

2, 10, 20, 30, 40, 50

NOAA - CTD Cast Information Field Log

AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 11 / MAY / 2017	Temp-0 SN: con
CTD Section: Gulf of Mexico (central)		Temp-1 SN: file
CTD Cast Number and File Name: NF1704_012.hex		Cond-0 SN: report
Operator: SN		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	19:16				0.7341	26.143	36.0258
Sea Surface (soak 1 minute):	19:29	26°1.127	87°57.321	3047.29	3.8886	24.6307	36.42
End of Down-Cast:	19:38	26.115	87°57.432	3051.73	300.10		
Surface after Up-Cast:	19:	26°1.093	87°57.509	3052.			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	15.3521	24.45130	36.4113	6.8030
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

chl max 96m

TSG Temperature:

TSG Inlet Temperature:

TSG Salinity:

Any module errors during cast?*	Y / N	Did you draw a TSG salinity calibration sample?	Y / N
Any sensor changes/problems?*	Y / N	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / N	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 11 / MAY / 2017				Temp-0 SN: con			
CTD Section: Gulf of Mexico						Temp-1 SN: file			
CTD Cast Number and File Name: NF1704-013-WEX						Cond-0 SN: report			
Operator: EM						Cond-1 SN: ...			
						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	21:35	26° 1.273	87° 57.134	3033	0.79	32.12	0.019		
Sea Surface (soak 1 minute):	21:57	26° 1.100N	87° 57.320	3051.9	10.495	24.4486	36.4015		
End of Down-Cast:	22:07	26° 1.007N	87° 57.359	3048					
Surface after Up-Cast:	22:17	26° 0.928N	87° 57.418	3048					
On Deck After Cast:	22:18								
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature:									
TSG Inlet Temperature:									
TSG Salinity:									
Any module errors during cast?*		Y / (N)	Did you draw a TSG salinity calibration sample?			Y / (N)			
Any sensor changes/problems?*		Y / (N)	TSG sample time (GMT):			Sample bottle #:			
Any hardware changes/problems?*		Y / (N)	TSG salinity at sample time:						

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 12 MAY 1 2017	Temp-0 SN: con
CTD Section: GOM		Temp-1 SN: file
CTD Cast Number and File Name: NF1704-015.hpx		Cond-0 SN: report
Operator: SM		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	02:20	25°58.381	87°57.269	3076.90	0.8499	24.237	0.0812
Sea Surface (soak 1 minute):	02:31	25°58.208	87°57.313	3070.1			
End of Down-Cast:	02:39	25°58.103	87°57.473	3009.1			
Surface after Up-Cast:	02:48	25°58.099	87°57.617	3067.58			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15m	15.1	24.418	36.400	6.789
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

chl max 101m

TSG Temperature: **25.02**

TSG Inlet Temperature: **24.892**

TSG Salinity: **36.424**

Any module errors during cast?* **Y / (N)**

Did you draw a TSG salinity calibration sample? **Y / (N)**

Any sensor changes/problems?* **Y / (N)**

TSG sample time (GMT): Sample bottle #:

Any hardware changes/problems?* **Y / (N)**

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:
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Press-1 SN: see

Temp-0 SN: con

Cond-0 SN: report

Cond-1 SN: ...

Oxyg-0 SN: ...

Oxyg-1 SN: ...

CTD Cast Number and File Name: *NF1704-016.hex*

Operator: JM

Latitude

Bottom (m)

Pressure

Temperature

Salinity

0.8334

 $24.3844\bar{7}$

25° 55.777' N

87° 58.821' W

3085.58

4.5645

24.71732

36.40596

25° 55.667' N

87° 59, 029' W

3083.70

300.2368

Surface after Up-Cast: 05:15

25° 55.577'N

07° 59.168' W

2066 23

On Deck After Cast: 05 : 18

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

[illegible]

TSG Inlet Temperature: 24.781 °C

TSG Salinity: 36.412 PSU

Any module errors during cast?*

Y / ☒ N

Did you draw a TSG salinity calibration sample?

Y / N

Any sensor changes/problems?*

$$Y/N$$

TSG sample time (GMT):

Sample bottle #:

Any hardware changes/problems?*

$$\frac{Y}{N}$$

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see				
Cruise: NF-17-03/04		Date: 5 / 12 / 2017			Temp-0 SN: con				
					Temp-1 SN: file				
CTD Section: GOM Central					Cond-0 SN: report				
CTD Cast Number and File Name: NF1704-017.he*					Cond-1 SN: ...				
Operator: JM					Oxyg-0 SN: ...				
					Oxyg-1 SN: ...				
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	05:55				0.7025	23.36177			
Sea Surface (soak 1 minute):	06:16	25°55.655'N	88°0.468'W	3077.62	4.2613	24.58870	36.39430		
End of Down-Cast:	06:24	25°55.618'N	88°0.641'W	3079.68	300.1669				
Surface after Up-Cast:	06:41	25°55.456'N	88°0.979'W	3081.34					
On Deck After Cast:	06:43								
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	100	100.3671	21.79655	36.35461	6.72824				
2	↓	↓	↓	↓	↓				
3	↓	↓	↓	↓	↓				
4	↓	↓	↓	↓	↓				
5	70	69.8827	22.36473	36.37196	6.95603				
6	↓	↓	↓	↓	↓				
7	↓	↓	↓	↓	↓				
8	↓	↓	↓	↓	↓				
9	50	49.7102	22.89835	36.36770	7.00484				
10	↓	↓	↓	↓	↓				
11	↓	↓	↓	↓	↓				
12	↓	↓	↓	↓	↓				
13	30	30.0806	24.17178	36.39833	6.79111				
14	↓	↓	↓	↓	↓				
15	↓	↓	↓	↓	↓				
16	↓	↓	↓	↓	↓				
17	20	20.1197	24.33279	36.39728	6.80816				
18	↓	↓	↓	↓	↓				
19	↓	↓	↓	↓	↓				
20	↓	↓	↓	↓	↓				
21	5	5.1854	24.63282	36.39352	6.76250				
22	↓	↓	↓	↓	↓				
23	↓	↓	↓	↓	↓				
24	↓	↓	↓	↓	↓				
TSG Temperature:		24.612°C							
TSG Inlet Temperature:		24.714°C							
TSG Salinity:		36.398 PSU							
Any module errors during cast?*		Y / (N)		Did you draw a TSG salinity calibration sample?		Y / (N)			
Any sensor changes/problems?*		Y / (N)		TSG sample time (GMT):		Sample bottle #:			
Any hardware changes/problems?*		Y / (N)		TSG salinity at sample time:					

NOAA - CTD Cast Information Field Log							
AOML/PhOD & SEFSC/FORCES Coastal Ops.							
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see		
Cruise: NF-17-03/04		Date: 5 / 12 / 2017			Temp-0 SN: con		
CTD Section: GOM					Temp-1 SN: file		
CTD Cast Number and File Name: NF1704_018_hex					Cond-0 SN: report		
Operator: RT					Cond-1 SN: ...		
					Oxyg-0 SN: ...		
					Oxyg-1 SN: ...		
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	09 : 27				0.7045	23.34	
Sea Surface (soak 1 minute):	09 : 38	25° 52.658	88° 3.583	3110.03	3.6030	24.568	36.3947
End of Down-Cast:	10 : 11	25° 52.42	88° 4.152	3108.19			
Surface after Up-Cast:	10 : 57	25° 52.00	88° 4.79	3113.15			
On Deck After Cast:	11 : 00						
Niskin Bottle Trips:							
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:	
1	1500	1489.821	4.2955	34.969	6.579		
2	1000	1008.4651	4.8655	34.9428	5.7513		
3	800	805.063	5.63969	34.9162	4.9780		
4	600	604.7126	7.14557	34.91499	4.01934		
5	400	402.259	10.24673	35.22515	3.65044		
6	350	351.7375	11.49044	35.40907	3.71167		
7	300	301.4937	12.80209	35.60962	3.85014		
8	250	250.6198	14.38537	35.86227	3.96421		
9	200	204.2204	16.34418	36.18002	4.19302		
10	150	152.5622	18.75447	36.47764	4.41469		
11	120	122.8001	21.33523	36.45364	4.46309		
12	100	102.9951	21.81520	36.37264	6.61881		
13	80	81.4566	21.98719	36.37180	6.84015		
14	60	61.8104	22.57301	36.38105	6.97353		
15	40	41.7977	23.93183	36.41275	6.89067		
16	20	21.1928	24.20958	36.59662	6.77571		
17	3	3.9823	24.56150	36.39470	6.8051		
18							
19							
20							
21							
22							
23							
24							
TSG Temperature: 24.562 °C							
TSG Inlet Temperature: 24.661 °C							
TSG Salinity: 36.398							
Any module errors during cast?*		Y / (N)	Did you draw a TSG salinity calibration sample?		Y / (N)		
Any sensor changes/problems?*		Y / (N)	TSG sample time (GMT):		Sample bottle #:		
Any hardware changes/problems?*		Y / (N)	TSG salinity at sample time:				

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 5/12/2017				Temp-0 SN: con			
CTD Section: Gulf of Mexico						Temp-1 SN: file			
CTD Cast Number and File Name: NF1704-019.6ex						Cond-0 SN: report			
Operator: JM						Cond-1 SN: ...			
						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		12:39				0.5800	23.51523		
Sea Surface (soak 1 minute):		13:01	25°52.056'N	88°E 7.53'W	3105.56	4.5964	24.52027	36.40570	
End of Down-Cast:		13:10	25°52.064'N	88° 5.904 'W	3109.67	300.1556			
Surface after Up-Cast:		13:17	25°52.072'N	88° 6.09'W	3104.55	4.5557			
On Deck After Cast:		:							
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature: 24.533 °C									
TSG Inlet Temperature: 24.640 °C									
TSG Salinity: 36.410 PSU									
Any module errors during cast?*		Y / (N)	Did you draw a TSG salinity calibration sample?		Y / (N)				
Any sensor changes/problems?*		Y / (N)	TSG sample time (GMT):		Sample bottle #:				
Any hardware changes/problems?*		Y / (N)	TSG salinity at sample time:						

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see				
Cruise: NF-17-03/04		Date: 12 MAY 2017			Temp-0 SN: con				
CTD Section: 60m (PAR+trich)					Temp-1 SN: file				
					Cond-0 SN: report				
					Cond-1 SN: ...				
					Oxyg-0 SN: ...				
Operator: em/KS					Oxyg-1 SN: ...				
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		15:35	25°51.406	88°7.276	3113.81	0.8244	27.07	0.031	
Sea Surface (soak 1 minute):		15:48	25°51.565	88°7.759	3119.0	3.1000	24.6408	36.3940	
End of Down-Cast:		15:59	25°51.616	88°7.636W	3109				
Surface after Up-Cast:		16:16	25°51.640	88°7.756W	3113				
On Deck After Cast:		16:19				506.20	24.65817		
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks: Chl max = 105 Surface Air Voltage 0.45910			
1	50	50.394	23.5587	36.40292	6.94438				
2	50	1	1	1	1				
3	40	40.8214	23.97751	36.41931	6.88562				
4	40	1	1	1	1				
5	30	30.584	24.17891	36.42005	6.7947				
6	30	1	1	1	1				
7	20	20.2995	24.47149	36.41428	6.80461				
8	20	1	1	1	1				
9	20	1	1	1	1				
10	20	1	1	1	1				
11	20	1	1	1	1				
12	5	50.061	24.5438	36.39493	6.80491				
13	5	1	1	1	1				
14	5	1	1	1	1				
15	5	1	1	1	1				
16	5	1	1	1	1				
17	1								
18									
19									
20									
21									
22									
23									
24									
TSG Temperature: 24.461									
TSG Inlet Temperature: 24.748									
TSG Salinity: 36.405									
Any module errors during cast? Y / N						Did you draw a TSG salinity calibration sample? Y / N			
Any sensor changes/problems? Y / N						TSG sample time (GMT): Sample bottle #:			
Any hardware changes/problems? Y / N						TSG salinity at sample time:			

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NOAA - CTD Cast Information Field Log

AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 12 / May / 2017	Temp-0 SN: con
CTD Section:		Temp-1 SN: file
CTD Cast Number and File Name: NF1704-021 hex		Cond-0 SN: report
Operator: EM		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	18:12	25° 50.608' N	88° 7.970'		0.802	26.32	0.02530
Sea Surface (soak 1 minute):	18:25	25° 50.633'	88° 7.985'	3117.60	3.158	25.080	36.397
End of Down-Cast:	18:33	25° 50.608'	88° 8.084'	3117.60	300.69	13.05	35.651
Surface after Up-Cast:	18:41	25° 50.592'	88° 8.178'	3127.91			
On Deck After Cast:	18:43						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15.	12.95	24.59		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

10/mchl max

TSG Temperature: 25.264 25.385

TSG Inlet Temperature: 25.260

TSG Salinity: 36.402

Any module errors during cast? Y / (N)

Did you draw a TSG salinity calibration sample? Y / (N)

Any sensor changes/problems? Y / (N)

TSG sample time (GMT): Sample bottle #:

Any hardware changes/problems? Y / (N)

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 12 May 2017				Temp-0 SN: con			
CTD Section: GOM -						Temp-1 SN: file			
CTD Cast Number and File Name: NF1704_023_hex						Cond-0 SN: report			
Operator: KS						Cond-1 SN: ...			
						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	23:55				0.7979	25.7320			
Sea Surface (soak 1 minute):	00:09	25°48.774N	88°8.218W	3137.5	3.2000	24.8822	36.4092		
End of Down-Cast:	00:19	25°48.911N	88°8.267W	3139.7					
Surface after Up-Cast:	00:32	25°48.855N	88°8.249W	3139.7					
On Deck After Cast:	00:35				3.5986	24.8559			
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	15	14.9568	24.4572	36.39248	6.80786	Full Series			
2						Dilution Exp			
3						+			
4						Shuttl Exp's			
5									
6									
7						Chl max 98 m			
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	✓								
TSG Temperature: 24.898									
TSG Inlet Temperature: 25.023									
TSG Salinity: 36.433									
Any module errors during cast? Y (N)						Did you draw a TSG salinity calibration sample? Y (N)			
Any sensor changes/problems? Y (N)						TSG sample time (GMT): Sample bottle #:			
Any hardware changes/problems? Y (N)						TSG salinity at sample time:			

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NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	<i>NF-17-03/04</i>	Date:	<i>13 MAY</i>	2017
			Temp-0 SN:	con

CTD Section:
CTD Cast Number and File Name: NF1704-024.hex
Operator: EM

Press-1 SN:	see
Temp-0 SN:	con
Temp-1 SN:	file
Cond-0 SN:	report
Cond-1 SN:	...
Oxyg-0 SN:	...
Oxyg-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	02:13	25°47.294	88°08.89W	3154	0.6980	24.509	0.0218
Sea Surface (soak 1 minute):	02:32	25°47.202	88°09.21	2154	3.9746	25.169	036.4
End of Down-Cast:	02:45	25°47.141	88°09.254	3155			
Surface after Up-Cast:	02:54	25°47.612	88°09.379	3155			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15m Gulf of Mexico	3.9075	25.14	36.4467	6.672
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:[illegible]

TSG Temperature:		
TSG Inlet Temperature:		
TSG Salinity:		
Any module errors during cast?*	Y / N	Did you draw a TSG salinity calibration sample? Y / N
Any sensor changes/problems?*	Y / N	TSG sample time (GMT): Sample bottle #:
Any hardware changes/problems?*	Y / N	TSG salinity at sample time:

NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	<i>NF-17-03/04</i>	Date: 5 / 13 / 2017	Temp-0 SN:	con

CTD Section:	60N Central
CTD Cast Number and File Name:	NF1704-025.hex
Operator:	JM/SH

Press-1 SN:	see
Temp-0 SN:	con
Temp-1 SN:	file
Cond-0 SN:	report
Cond-1 SN:	...
Oxyg-0 SN:	...
Oxyg-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	04:12				0.7792	28.28448	
Sea Surface (soak 1 minute):	04:53	25°45.192'N	88°08.504'W	3190.05	4.7324	24.72814	36.41264
End of Down-Cast:	05:02	25°44.218'N	88°08.759'W	3191.88 m	3614.789		
Surface after Up-Cast:	05:11	25°44.174'N	88°08.851'W	3199.98			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15 m	15.8526	24.43455	36.41717	10.75552
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:[illegible]

TSG Temperature:

TSG Inlet Temperature:

TSG Salinity:

Any module errors during cast?*	
---------------------------------	--

$$Y / (N)$$

Did you draw a TSG salinity calibration sample?

Y / ~~N~~

Any sensor changes/problems?*

	Y	N
Y	1	0

TSG sample time (GMT):

Sample bottle #:

Any hardware changes/problems?*

$$\frac{1}{Y} = \frac{1}{Y(N)}$$

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF-17-03/04		Date: 5 / 13 / 2017				Temp-0 SN: con			
						Temp-1 SN: file			
CTD Section: Central GOM						Cond-0 SN: report			
CTD Cast Number and File Name: NF1704-026.hex						Cond-1 SN: ...			
Operator:						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	05 : 48				0.7338	24.13209			
Sea Surface (soak 1 minute):	06 : 05	25° 43.256	88° 09.23	3201.43	33506	24.6457	36.41258		
End of Down-Cast:	06 : 14	25° 43.202	88° 09.029	3201					
Surface after Up-Cast:	06 : 31	25° 43.114	88° 09.221	3201.67					
On Deck After Cast:	06 : 32								
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	100	102.8310	21.73697	36.364	6.64259	MD3 Cycle 1 Cul Max: 97m			
2	100								
3	100								
4	100								
5	70	70.6201	22.40139	36.36659	6.95748				
6	70								
7	70								
8	70								
9	50	50.4111	23.22016	36.3764	6.98187				
10	50								
11	50								
12	50								
13	30	30.2525	24.36152	36.42172	6.78251				
14	30								
15	30								
16	30								
17	20	20.2927	24.58948	36.4832	6.80664				
18	20								
19	20								
20	20								
21	5	4.4760	24.61551	36.40899	6.72488				
22	5								
23	5								
24	5								
TSG Temperature: 24.607									
TSG Inlet Temperature: 24.720									
TSG Salinity: 36.413									
Any module errors during cast?*		Y / (N)	Did you draw a TSG salinity calibration sample?		Y (N)				
Any sensor changes/problems?*		Y / (N)	TSG sample time (GMT):		Sample bottle #:				
Any hardware changes/problems?*		Y / (N)	TSG salinity at sample time:						

2

**NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.**

Ship: NOAA Ship *Nancy Foster*

CTD Instrument Package:

Press-1 SN:	see
-------------	-----

Cruise: NF-17-03/04

Date: 13 / 5 / 2017

Temp-0 SN:	con
------------	-----

Temp-1 SN:	file
------------	------

Cond-0 SN;	report
------------	--------

Cond-1 SN:	...
------------	-----

Oxyg-0 SN: ...

Oxyg-1 SN:

CTD Section: GOM

CTD Cast Number and File Name: N=1704_027.hex

Operator: RT

Salinity

On Deck Before Cast: 09:46

100

Sea Surface (soak 1 minute):	09:53	25°39.47N	88°11.028'W	3253.48
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3253.48

25.0236

36,495

End of Down-Cast: 10 : 20 25° 29' 70" N 88° 11' 39" W 3237.49

2227.69

Surface after Up-Cast:	11 : 13	25° 29.639, 88° 11.780'	3237.64
------------------------	---------	-------------------------	---------

C. 000117E6'

375.64

On Deck After Cast:	11:12
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Niskin Bottle Trips:

Cast Remarks:

TSG Temperature: 25.124

TSG Inlet Temperature: 25.278

TSG Salinity: 30.46

Any module errors during cast?*	Y / N
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Did you draw a TSG salinity calibration sample? Y / N

Any sensor changes/problems?*	Y / N
-------------------------------	-------

TSG sample time (GMT):	Sample bottle #:
------------------------	------------------

Any hardware changes/problems?*	Y / N
---------------------------------	-------

TSG salinity at sample time:

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see				
Cruise: NF-17-03/04		Date: 13 / 5 / 2017			Temp-0 SN: con				
CTD Section: GOM					Temp-1 SN: file				
					Cond-0 SN: report				
					Cond-1 SN: ...				
					Oxyg-0 SN: ...				
CTD Cast Number and File Name: NF1704-028.hex					Oxyg-1 SN: ...				
Operator: SH									
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		12:49				0.5833	25.95994		
Sea Surface (soak 1 minute):		13:00	25°37.912'N	88°12.767'W	2773.80	2.9209	25.13972	36.4578	
End of Down-Cast:		13:09	25°37.871'N	88°12.896'W	2917.11	299.8656			
Surface after Up-Cast:		13:16	25°38.46'N	88°12.980'W	2763.90				
On Deck After Cast:		13:18				0.5086	25.5822		
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature:									
TSG Inlet Temperature:									
TSG Salinity:									
Any module errors during cast?*		Y / (N)	Did you draw a TSG salinity calibration sample?			Y / (N)			
Any sensor changes/problems?*		Y / (N)	TSG sample time (GMT):			Sample bottle #:			
Any hardware changes/problems?*		Y / (N)	TSG salinity at sample time:						

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:				Press-1 SN: see			
Cruise: NF1704 NF-17-03/04		Date: 13 / MAY / 2017				Temp-0 SN: con			
CTD Section: Gulf of Mexico						Temp-1 SN: file			
CTD Cast Number and File Name: NF1704-029.hex						Cond-0 SN: report			
Operator: KS						Cond-1 SN: ...			
						Oxyg-0 SN: ...			
						Oxyg-1 SN: ...			
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		15:17				0.6135	25.5468		
Sea Surface (soak 1 minute):		15:46	25°36.574'	88°14.094W	3279.9	3.7498	25.2649	36.46132	
End of Down-Cast:		15:55	25°36.60	88°14.284	3266.5				
Surface after Up-Cast:		16:13	25°36.528	88°14.316	3267.5				
On Deck After Cast:		16:15				3.5540	25.3289		
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	50	50.0517	23.31884	36.39355	6.97943	PAR + TRICAM			
2	50	1	1	1	1	CAST			
3	35	35.208	24.39814	36.43087	6.79796	Owl max =			
4	35	1	1	1	1	102 m			
5	20	20.2645	24.42066	36.41530	6.77578				
6	20	1	1	1	1				
7	15	15.3207	24.47362	36.40758	6.7389				
8	15	1	1	1	1				
9	10	10.5051	24.21230	36.45984	6.68728				
10	10	1	1	1	1				
11	10	1	1	1	1				
12	10	1	1	1	1				
13	2	3.5574	25.32603	36.46233	6.65808				
14	2	1	1	1	1				
15	2	1	1	1	1				
16	2	1	1	1	1				
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature: 25.360°C									
TSG Inlet Temperature: 25.437°C									
TSG Salinity: 36.364									
Any module errors during cast? Y / N		Did you draw a TSG salinity calibration sample? Y / N							
Any sensor changes/problems? Y / N		TSG sample time (GMT):		Sample bottle #:					
Any hardware changes/problems? Y / N		TSG salinity at sample time:							

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see				
Cruise: NF-17-03/04		Date: 13/MAY/2017			Temp-0 SN: con				
CTD Section: CTD Cast Number and File Name: NF17014-030, hex Operator: KH/					Temp-1 SN: file				
					Cond-0 SN: report				
					Cond-1 SN: ...				
					Oxyg-0 SN: ...				
					Oxyg-1 SN: ...				
	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity		
On Deck Before Cast:	18:16	25°34.862	88°14.650	3283	0.7381	25.98	0.019		
Sea Surface (soak 1 minute):	18:25	25°34.790	88°14.602	8296	3.1913	25.49	26.47		
End of Down-Cast:	18:34	25°34.705	88°14.566	3109.74					
Surface after Up-Cast:	18:44	25°34.626	88°14.527	3286					
On Deck After Cast:	:								
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	15 m	15.2334	24.5703	26.41291	6.72098				
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
TSG Temperature:									
TSG Inlet Temperature:									
TSG Salinity:									
Any module errors during cast?*			Y / N	Did you draw a TSG salinity calibration sample?			Y / N		
Any sensor changes/problems?*			Y / N	TSG sample time (GMT):			Sample bottle #:		
Any hardware changes/problems?*			Y / N	TSG salinity at sample time:					

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship: NOAA Ship Nancy Foster	CTD Instrument Package:	Press-1 SN: see
Cruise: NF-17-03/04	Date: 13 May 2017	Temp-0 SN: con
CTD Section: GOM		Temp-1 SN: file
CTD Cast Number and File Name: NF1704-031.hex		Cond-0 SN: report
Operator: EM		Cond-1 SN: ...
		Oxyg-0 SN: ...
		Oxyg-1 SN: ...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	21:11	25° 32.762	88° 13.890	5305	0.7756	27.701	0.02313
Sea Surface (soak 1 minute):	21:19	25° 32.624	88° 13.993	3306.9	2.865	25.504	36.454
End of Down-Cast:	21:27	25° 32.564	88° 13.975	3110.21	300.9	12.72	35.599
Surface after Up-Cast:	21:37	25° 32.412	88° 13.945	3321.52			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15m	15.673	24.6173	36.41225	67595
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

strange chl on
in print
98chl max?

TSG Temperature:

TSG Inlet Temperature:

TSG Salinity:

Any module errors during cast?*	Y / N	Did you draw a TSG salinity calibration sample?	Y / N
Any sensor changes/problems?*	Y / N	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / N	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log									
AOML/PhOD & SEFSC/FORCES Coastal Ops.									
Ship: NOAA Ship Nancy Foster		CTD Instrument Package:			Press-1 SN: see				
Cruise: NF-17-03/04		Date: 13 / MAY / 2017			Temp-0 SN: con				
					Temp-1 SN: file				
CTD Section:					Cond-0 SN: report				
CTD Cast Number and File Name: NF1704-D32.hex					Cond-1 SN: ...				
Operator: T Kelly					Oxyg-0 SN: ...				
					Oxyg-1 SN: ...				
		Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity	
On Deck Before Cast:		23:57				0.6858	25.6160		
Sea Surface (soak 1 minute):		23:56	25°30.523	88°14.249	3334.13	2.9196	25.2926	36.445	
End of Down-Cast:		00:14	25°30.184	88°14.063	3342				
Surface after Up-Cast:		00:31	25°29.858	88°13.897	3345				
On Deck After Cast:		00:32							
Niskin Bottle Trips:									
Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen	Cast Remarks:			
1	30	29.6737	24.3463	36.4144	6.7663				
2									
3									
4									
5									
6									
7									
8									
9	15	14.3671	24.8628	36.4137	6.7109				
10									
11									
12									
13									
14									
15									
16									
17	0	3.4812	25.2151	36.4432	6.7091				
18									
19									
20									
21									
22									
23									
24									
TSG Temperature:									
TSG Inlet Temperature:									
TSG Salinity:									
Any module errors during cast?*		Y / (N)		Did you draw a TSG salinity calibration sample?		Y / (N)			
Any sensor changes/problems?*		Y / (N)		TSG sample time (GMT):		Sample bottle #:			
Any hardware changes/problems?*		Y / (N)		TSG salinity at sample time:					

NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	NF-17-03/04	Date: 14 MAY 1 2017	Temp-0 SN:	con
			Temp-1 SN:	file
CTD Section: 6DM			Cond-0 SN:	report
CTD Cast Number and File Name: NF1704_033.hex			Cond-1 SN:	...
Operator: EM			Oxyg-0 SN:	...
			Oxyg-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	02:10				0.8274	22.439	0.0262
Sea Surface (soak 1 minute):	02:27	25°27.650	88°14.141	3368	2.9541	25.044	36.434
End of Down-Cast:	02:36	25°27.33	88°14.082	3360			
Surface after Up-Cast:	02:46	25°27.211	88°14.022	3362			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	15	15.2094	04.955	36.425	6.723
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:

[illegible]

TSG Temperature:

TSG Inlet Temperature:

TSG Salinity:

Y / N

Sample bottle #:

Sample bottle n:

NOAA - CTD Cast Information Field Log AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	<i>NF-17-03/04</i>	Date: <i>5 / 16 / 2017</i>	Temp-0 SN:	con
			Temp-1 SN:	file
CTD Section: <i>GUM</i>			Cond-0 SN:	report
CTD Cast Number and File Name: <i>NF1704 - 052. hex</i>			Cond-1 SN:	...
Operator: <i>SP</i>			Oxyg-0 SN:	...
			Oxyg-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	:						
Sea Surface (soak 1 minute):	04:09	25° 59.575'	89° 14.069'	3148.9	28818	25.37579	36.57211
End of Down-Cast:	04:18	25° 59.479'	89° 14.144'	3150.29	303.5520		
Surface after Up-Cast:	04:25	25° 59.389'	89° 14.147'	3151.21			
On Deck After Cast:	:						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Cast Remarks:[illegible]

TSG Temperature:			
TSG Inlet Temperature:			
TSG Salinity:			
Any module errors during cast?*	Y / ☒ N	Did you draw a TSG salinity calibration sample?	Y / ☒ N
Any sensor changes/problems?*	Y / ☒ N	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / ☒ N	TSG salinity at sample time:	

NOAA - CTD Cast Information Field Log
AOML/PhOD & SEFSC/FORCES Coastal Ops.

Ship:	NOAA Ship <i>Nancy Foster</i>	CTD Instrument Package:	Press-1 SN:	see
Cruise:	NF-17-03/04	Date: 5 / 16 / 2017	Temp-0 SN:	con

CTD Section:	Cycle 2
CTD Cast Number and File Name:	NE1704_053
Operator:	JM

Press-1 SN:	see
Temp-0 SN:	con
Temp-1 SN:	file
Cond-0 SN:	report
Cond-1 SN:	...
Oxyg-0 SN:	...
Oxyg-1 SN:	...

	Time (GMT)	Latitude	Longitude	Bottom (m)	Pressure	Temperature	Salinity
On Deck Before Cast:	05:49				0.6379	23.52676	
Sea Surface (soak 1 minute):	06:33	25° 59.598' N	89° 15.064' W	3155.41	2.9664	25.33830	36.57094
End of Down-Cast:	06:42	25° 59.536' N	89° 15.132' W	3156.33	300.8669		
Surface after Up-Cast:	06:58	25° 59.414' N	89° 15.281' W	3158.76			
On Deck After Cast:	07:00						

Niskin Bottle Trips:

Niskin Bottle	Target Pressure	Recorded Pressure	Primary Temperature	Primary Salinity	Primary Oxygen
1	116	116.1614	23.46366	36.55066	6.61141
2	↓	↓	↓	↓	↓
3	↓	↓	↓	↓	↓
4	↓	↓	↓	↓	↓
5	80	80.1229	23.68143	36.55575	6.80539
6	↓	↓	↓	↓	↓
7	↓	↓	↓	↓	↓
8	↓	↓	↓	↓	↓
9	60	60.0009	24.40371	36.56332	6.79750
10	↓	↓	↓	↓	↓
11	↓	↓	↓	↓	↓
12	↓	↓	↓	↓	↓
13	40	39.8885	24.84969	36.54203	6.74714
14	↓	↓	↓	↓	↓
15	↓	↓	↓	↓	↓
16	↓	↓	↓	↓	↓
17	20	19.8198	24.10266	36.55381	6.70080
18	↓	↓	↓	↓	↓
19	↓	↓	↓	↓	↓
20	↓	↓	↓	↓	↓
21	5	4.8739	25.33255	36.57135	6.67151
22	↓	↓	↓	↓	↓
23	↓	↓	↓	↓	↓
24	↓	↓	↓	↓	↓

Cast Remarks:Experiment 4
water collection

TSG Temperature:	25.345 °C
TSG Inlet Temperature:	25.445 °C
TSG Salinity:	36.574 PSU

Any module errors during cast?*	Y / (N)	Did you draw a TSG salinity calibration sample?	Y / (N)
Any sensor changes/problems?*	Y / (N)	TSG sample time (GMT):	Sample bottle #:
Any hardware changes/problems?*	Y / (N)	TSG salinity at sample time:	