

Blue Heron CTD Cast Sheet

Cruise ID	BH15-11
Operator:	JAgnich

Sensor	Serial Number	Calibration Date	Channel	Frequency	Voltage
Pressure	547	1-Feb-11	3	2	
Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	001.01				
Date:	8/26/15	Start Time:	0800	End Time:	0815

Underway Temp	11.770	Surface CTD Temp	11.681	
Underway Trans	90.12	Surface CTD Trans	90.12	
Knudsen Depth	28.9m	CTD Depth	30.0m	

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	28	28.6	5.815	
Niskin 2	26	25.99	5.826	
Niskin 3	24	23.98	5.829	
Niskin 4	22	22.08	5.874	
Niskin 5	20	20.04	7.096	
Niskin 6	12	11.98	10.824	
Niskin 7	12	↓	↓	
Niskin 8	12			
Niskin 9	1	1.405	11.643	
Niskin 10	1	↓	↓	
Niskin 11	1	↓	↓	
Niskin 12	1	↓	↓	

Notes:

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Temperature	4132	21-Feb-14	1	0	
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Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS35-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	00201				
Date:	8/26/15	Start Time:	13:56	End Time:	

Underway Temp	11.120	Surface CTD Temp	10.97°
Underway Trans	91.93	Surface CTD Trans	91.93
Knudsen Depth	14.5m	CTD Depth	145m

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1				
Niskin 2				
Niskin 3				
Niskin 4				
Niskin 5				
Niskin 6				
Niskin 7				
Niskin 8				
Niskin 9				
Niskin 10				
Niskin 11				
Niskin 12				

Notes:
trans issue cast aborted.

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Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	002.02				
Date:	8/26/15	Start Time:	14:11	End Time:	14:33

Underway Temp	11.040	Surface CTD Temp	11.26	
Underway Trans	91.5%	Surface CTD Trans	92.2%	
Knudsen Depth	144m	CTD Depth	143m	

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	142	142	3.742	
Niskin 2	120	120.1	3.770	
Niskin 3	97	97.2	3.854	
Niskin 4	71	70.9	3.869	
Niskin 5	48	48.1	3.886	
Niskin 6	30	30.1	3.928	
Niskin 7	22	22.1	3.962	
Niskin 8	18	18.0	4.330	
Niskin 9	16	16.0	5.110	
Niskin 10	12	12.1	8.948	
Niskin 11	8	7.9	10.468	
Niskin 12	3	3.0	11.266	

Notes:

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Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	00203				
Date:	8/26/15	Start Time:	15:18	End Time:	15:36

Underway Temp	11.220	Surface CTD Temp	11.045	
Underway Trans	91.98	Surface CTD Trans	91.970	
Knudsen Depth	143m	CTD Depth	143m	

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	141.8 (Bot)	141.8	3.745	
Niskin 2	141.8 (Bot)	141.8	3.745	
Niskin 3	90	90.1	3.843	
Niskin 4	90	90.1	3.843	
Niskin 5	19	19.0	4.438	
Niskin 6	19	↓	↓	
Niskin 7	19	↓	↓	
Niskin 8	12	12.0	7.200	
Niskin 9	12	12.0	7.200	
Niskin 10	1.5	1.7	11.135	
Niskin 11	1.5	↓	↓	
Niskin 12	1.5	↓	↓	

Notes:

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Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS35-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	003.01				
Date:	8/27/15	Start Time:	06:56	End Time:	07:19

Underway Temp	12.470	Surface CTD Temp	12.480
Underway Trans	88 93570	Surface CTD Trans	93596
Knudsen Depth	18.179m	CTD Depth	180m

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	179 Bot	179.1	3.730	
Niskin 2	179 Bot	179.1	3.730	
Niskin 3	100	100.0	3.848	
Niskin 4	30	30.0	4.15	
Niskin 5	30	↓	↓	
Niskin 6	30	↓	↓	
Niskin 7	20	20.0	5.741	
Niskin 8	20	↓	↓	
Niskin 9	20 surf	↓	↓	
Niskin 10	1 surf	15m	12.453	
Niskin 11	1 ↓	↓	↓	
Niskin 12	1 ↓	↓	↓	

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Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	003.02				
Date:	8/27/15	Start Time:	0835	End Time:	0909

Underway Temp	12.520	Surface CTD Temp	12.512	
Underway Trans	93.5%	Surface CTD Trans	93.3%	
Knudsen Depth	17m	CTD Depth		

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	Surface	2.0m	12.487	
Niskin 2	"	"	"	
Niskin 3	"	"	"	
Niskin 4				
Niskin 5				
Niskin 6				
Niskin 7				
Niskin 8				
Niskin 9				
Niskin 10				
Niskin 11				
Niskin 12				

Notes:

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Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS35-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	003.08				
Date:	8/27/15	Start Time:	11:32	End Time:	1202

Underway Temp	12.760	Surface CTD Temp	12.531	
Underway Trans	93.876	Surface CTD Trans	93.376	
Knudsen Depth	180m	CTD Depth	180m	

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	178	178.6	3.723	
Niskin 2	160	160.0	3.724	
Niskin 3	140	140.0	3.746	
Niskin 4	120	120.0 / 119.8	3.800	
Niskin 5	95	95.0	3.840	
Niskin 6	70	69.9	3.883	
Niskin 7	50	49.9	3.909	
Niskin 8	35	35.0	3.969	
Niskin 9	28	27.9	4.102	
Niskin 10	20	20.0	4.1735	
Niskin 11	15	15.0	10.494	
Niskin 12	3	3.0	12.816	

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Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	003.09				
Date:	8/27/15	Start Time:	13:09	End Time:	13:34

Underway Temp	12.900	Surface CTD Temp	12.732	
Underway Trans	93.7%	Surface CTD Trans	93.5%	
Knudsen Depth	180m	CTD Depth		

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	24	178.6	37.24	
Niskin 2	160	160.2	3.732	
Niskin 3	140	140.1	3.739	
Niskin 4	120	120.0	3.786	
Niskin 5	95	95.0	3.842	
Niskin 6	70	69.9	3.853	
Niskin 7	50	50.0	3.873	
Niskin 8	35	34.9	3.923	
Niskin 9	28	27.9	3.956	
Niskin 10	20	19.9	5.930	
Niskin 11	15	15.1	9.512	
Niskin 12	3	2.9	12.903	

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Pressure	547	1-Feb-11	3	2	
Temperature	4132	21-Feb-14	1	0	
Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS3S-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	005.01				
Date:	8/28/15	Start Time:	0615	End Time:	0651

Underway Temp	10.940	Surface CTD Temp	10.940	
Underway Trans	92.72	Surface CTD Trans	92.82	
Knudsen Depth	255m	CTD Depth	255m	

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	Bottom	253.2	3.689	
Niskin 2	230	229.9	3.709	
Niskin 3	200	200.0	3.786	
Niskin 4	185	184.185.0	3.812	
Niskin 5	170	169.9	3.840	
Niskin 6	150	150.1	3.843	
Niskin 7	130	130.0	3.873	
Niskin 8	110	110.0	3.886	
Niskin 9	90	90.0	3.836	
Niskin 10	70	70.0	3.896	
Niskin 11	60	59.9	3.865	
Niskin 12	50	49.9	3.882	

Notes:

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Conductivity	2728	21-Feb-14	2	1	
Dissolved Oxygen	2293	18-Mar-14	4		0
Chl Fluorometer	WS35-553P	30-Mar-15	9		5
CDOM Fluorometer	WSCD-1178	30-Mar-15	5		1
PAR	4743	18-Mar-14	7		7
Altimeter	802	20-Mar-04	10		6
pH	270135	18-Mar-15	6		2
Ox Reduc Potential	270135	18-Mar-15	7		3
Transmissometer	CST-286PR	2-Apr-13	8		4
SPAR					
Bottles	12 8L GO/OTE Niskin Bottle				

Configuration File:	07112015_beta				
Data Filename:	005.02				
Date:	8/28/15	Start Time:	0723	End Time:	0742

Underway Temp	10.930	Surface CTD Temp	10.984	
Underway Trans	92.7%	Surface CTD Trans	93.0%	
Knudsen Depth	254	CTD Depth		

Bottle #	Target Depth	Actual Depth	Temp	Comments
Niskin 1	40	39.9	4.732	
Niskin 2	35	34.9	5.550	
Niskin 3	30	29.9	5.876	
Niskin 4	23	23.0	6.781	
Niskin 5	23	↓	↓	
Niskin 6	23	↓	↓	
Niskin 7	18	17.9	8.110	
Niskin 8	12	12.1	8.785	
Niskin 9	6	5.9	10.795	
Niskin 10	surf	1.6	10.916	
Niskin 11	surf	1.6	↓	
Niskin 12	surf	1.6	↓	

Notes:
