Mooring number: <u>//23 D</u>	Site name: Wellflest Deep	d
Date: 09/18/2019	Operator: J. Borden	
Information		
Model#: Dwave	Serial#: <u>\$5025</u>	-
Firmware 1. 400		
Battery Voltage: /2.04		
Parameter: pressure		
/		
Setup		
Clock set @ <u>09/18/2019</u>	15:04:26 Exts	
Start logging: 09/15/2019 180	20 UTL	
End logging: /2/02/2019 230	DU UTE	
Sampling regime:Continuous		
Measurement speed: Period Rate_		
Measurement speed reriod nate		
Sampling regime:Tide		
Tide sampling		
Measurement speed: Period	_ Rate	
Tidal averaging duration:		
Tidal measurement period:		
Sampling regime:Wave		

Measurement speed: Period Yeriod Rate 4hz
Wave burst length (samples): 4096
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required: 45% Battery required: 39% (using bafferies from 1/234 deployment) recoving Schoolulast for some Line in Oct Enable (Start logging)
Recovery
Sensor time: 18:14.19 11/21/2019
Actual time: 16.14.77
Battery voltage: 11.75
Fouling comments: MUS IN SENSOR PORT

1)

Mooring number: 1123C Site name: Wellfleet Deep Date: 6/20/2019 Operator: Man 4 cm
Date: 6/20/2019 Operator: Man + cm
Information
Model#: RBR Vutuoso DIwave Serial#: 55025 10m
Firmware 1.400
Battery Voltage: New lith. 12,82V
Parameter: plssml, dba
ų
Setup
Clock set @ +me OK 13:07:21 6/20/2019 UTC
Start logging: 6/20/2019 12:00:00 UTC
End logging: 12/2/2019 11:00:00 UTC
Sampling regime:Continuous
Measurement speed:PeriodRate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime: Wave

	Measurement speed:PeriodRate
	Wave burst length (samples): 4096
	Wave measurement period:
	Instrument altitude (m): 0 4 m * was 0.1
	Mean depth of water (m): 2M
	Wave bandwidth (Hz): 0.0010 to 0.521351t3
	Wave periods (s): 184 to 1024,00 Sec
Battery	required: 80% dessecont oungs Enable (Start logging)
Recov	ery
	time: 09/13/19 18 3 5 4 5
Actual	time: 09/17/19 18 35 40
Battery	voltage: 11.95 V
Fouling	g comments: muddy
- 20/9c	1837 Stop 0, rsk

Mooring number: 1723 Site name: Weuflet Deep
Date: 3-16-19 Operator: <u>EM</u>
Information
Model#: FBR VIRTUOSO Serial#: 055025
Firmware
Parameter: AVES
Parameter: WAVES
Setup 7 / 6 / 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
$\sqrt{\text{Clock set } @ 3-/8-/9 /6.37.30}$
Start logging: 3-19-19 17:00:00
End logging: 9-2-19
Sampling regime: Continuous
Measurement speed:PeriodRate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime: Vwave

Measurement speed: Period Rate
Wave burst length (samples): 4096
Wave measurement period: 60.30:00
Instrument altitude (m):
Mean depth of water (m): ZM
Wave bandwidth (Hz):
Wave periods (s): $\frac{69}{70}$ $\frac{70}{1024}$ $\frac{550}{500}$
/20°/
Memory required: / / /a
Memory required: 65%
Enable (Start logging)
Recovery
•
Sensor time: 16:29:15 6/19/2019 UTC
Actual time: 16:29:14 6/19/2019 UTC
Battery voltage:
Fouling comments: very clean
Fouring comments:
drumbo apled IGB
downloaded IGB pan entre time

RBRvirtuoso Dwave Checkout Sheet
Mooring number: 144-B? Site name: SEDFIUX - thereon B
Date: 11/20/18 Operator: Borden
T
Information
Model#: RBR DUKUL Serial#: 55+25
Firmware /. 46
Parameter: Pressure (16ar)
Parameter: Pressura (1642)
Setup
Clock set @ 2018 - 11 - 20 20:15:00
Start logging: 7018 - 12 - 3 00:00:00
End logging: 2019 - 05 - 20 00:00:00
Sampling regime:Continuous
Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
•
Sampling regime: Wave
Wave sampling

Measurement speed: Period Rate
Wave burst length (samples): 4096
Wave measurement period: 60:30 ; 00
Instrument altitude (m):
Mean depth of water (m): 2.5 m
Wave bandwidth (Hz): 0.0010 - 0.4405 h 2
Wave periods (s):
Memory required: 100°/0
Battery required: 85%
Enable (Start logging)
Recovery
Sensor time: 15 55 30
Actual time: 155529 $03-05-19$
Battery voltage: 11.97
Fouling comments: Senson pretty closged of sand
stop recording 3/5/19 155645

Mooring number: 1060 Site name: DHCH FAR
Mooring number: 1060 Site name: DTCH FAR Date: 31518 Operator: NOWACKI
Information
Model#: RBR VIV tubs Serial#: 655025
Firmware
Battery Voltage: 12.83
Parameter: Pressure (dhw)
Setup
Clock set @ 2018-03-15 15:17:03
Start logging: 3 20 2018 810000 AM End logging: 94 2018 6130100 AM
Endlogging 94 2018 6:30:00 AM
Elia logging.
Sampling regime:Continuous
Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave
Sampling regime:wave

Measurement speed: Period Rate \tag{\tag{Ht}}
Wave burst length (samples):
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz): 0.0010 - 0.7407
Wave periods (s):
Memory required: 100 %
Battery required:
Enable (Start logging)
Recovery 6/27/2019
Recovery $6/27/2019$ Sensor time: $6/29/2018$ $15:21:27$
Actual time: 15:21:30
Battery voltage: 12.01
Fouling comments: La clump of sediment in press.
6/29/18 15:22:02 - Stop logging
Download file 0 055025, 2018 0629-1122, rsk
1.16 GB

Mooring number: 1106 Site name: DITCH FAR
Mooring number: $1/06$ Site name: DITCH FAR Date: $10/20/2017$ Operator: D NOWACKI
, ,
Information
Model#: RBRVIrtuss Serial#: 655025
Firmware
Battery Voltage: 12.86
Parameter: Pressure (dbar)
Setup
Clock set @ 2017-10-20 18:56:50
Start logging: 10/21/2017 08:00:00
End logging: 4/7/2018 06:00:00
End logging:
Sampling regime:Continuous
Management and David Date
Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave
Sampling regime: <u>V</u> Wave
Wave sampling

Measurement speed: Period Rate 4/12
Wave burst length (samples): 4096
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required:
Battery required: 86%
Enable (Start logging)
Recovery
Sensor time:
Actual time:
Battery voltage:
Fouling comments:

Mooring number:
Date: $\frac{8/3/2017}{}$ Operator: $\frac{5}{}$, $\frac{5}{}$
Information
Model#: RBR VIRTUOSO DWAVESerial#: 055025
Firmware
Battery Voltage: 2,77 \/
Parameter: Pressure
RBR upgrade memory to 60M rdgs
Setup
$\sqrt{\text{Clock set }} = \frac{8/3}{2017} = \frac{18.02.08}{18.02.08} = \frac{18.02.08}{12.02.08} = \frac{18.02.08}{18.02.08} = \frac{18.02.08}{18.02} = \frac{18.02.08}{18.02} = $
Start logging: 8/15/2017 08:60:00 AM
End logging: 1/30/2018 05:50:00 AM
Sampling regime:Continuous Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave

Measurement speed: Period Rate 4 HZ
Wave burst length (samples): 4096
Wave measurement period: 00.30.00
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz): $0.001 - 1.0870$
Wave periods (s):
Memory required: 100 % Battery required: 86 % Enable (Start logging)
Recovery
Sensor time: 2017 10 20 14: 39: 37
Actual time: 2017 10/20 14:39: 40
Battery voltage:
Fouling comments:
had trouble connecting - had to modify part Sto 30-pin connector could insert properly FILENAME: 055025_20171020-1440, vsk



Pressure Calibration Certificate



RBRvirtuoso D|wave s/n: 55025 Sensor rating: 10 dbar s/n: NA

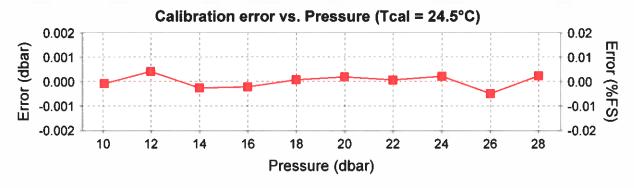
Nominal accuracy: 0.05%FS (0.005 dbar)

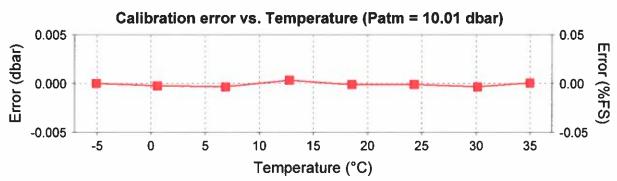
Reference instrument: Mensor CPC6050 s/n: 41000CAM

Applied pressure,		Measured pressure,	Calibration	Coefficients	
P _{app} (dbar)	Voltage ratio, V	P _{meas} (dbar)	error (dbar)	C0:	-2.03694742
, ,	•	• •	•	Cl:	48.57697337
10.0675	0.256470	10.0674	-0.0001	C2:	2.17229028
12.0002	0.295144	12.0006	0.0004	C3:	0.91953523
13.9997	0.334946	13.9994	-0.0003		
16.0000	0.374585	15.9998	-0.0002	X0 (Patm):	10.068
18.0000	0.414023	18.0001	0.0001	X1:	0.00936475
20.0001	0.453257	20.0003	0.0002	X2:	0.00008562
21.9997	0.492273	21.9997	0.0001	ж3:	-0.00000064
				X4:	0.00012620
24.0001	0.531102	24.0003	0.0002	VE/Meel).	24.5
26.0001	0.569695	25.9996	-0.0005	X5 (Tcal):	
27.9994	0.608089	27.9996	0.0002		

$$P_{meas} = C_0 + C_1 \cdot V + C_2 \cdot V^2 + C_3 \cdot V^3$$

$$P_{tcor} = X_0 + \frac{P_{meas} \cdot x_0 \cdot x_1 \cdot (\tau \cdot x_5) \cdot x_2 \cdot (\tau \cdot x_5)^2 \cdot x_3 \cdot (\tau \cdot x_5)^3}{1 + x_4 \cdot (\tau \cdot x_5)}$$
 Head (mm) = 512





Calibration Date: 31/Jul/2017 Issue Date: 31/Jul/2017

File Name: 055025_20170731_1526P.rsk

Operator: dluong

Approver: Dudano

sbucknor





RBR Ltd., 95 Hines Road, Unit 5, Kanata, Ontario, K2K 2M5, Canada Tel: +1 613 599 8900 Fax: +1 599 8929 info@rbr-global.com

Packing List

19364

Sold To: USGS Coastal and Marine Geology

384 Woods Hole Road

Woods Hole, MA 02543-1598

Att: Chris Sherwood, 916-207-2206

Ship To: USGS Coastal and Marine Geology

384 Woods Hole Road

Woods Hole, MA 02543-1598

Att: Patrick Dickhudt, 508-457-2332

Date:

01/08/2017

P.O. No.:

G17PS00694

Ship Via:

Federal Expr...

Item	Qty	Description
	6	Data Logger Model RBRvirtuoso D wave Serial #55108, 55107, 55033, 55025, 55110, 55109 Shipped with: -Qty. 6: Set of Calibration Certificates -Qty. 2: USB: Ruskin Software, Manual -Qty. 3: Yellow TC1400 Transit Case
e ⁻		

Business No.

104516604



Measurement speed: Period Rate
Wave burst length (samples):
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required: 679
Memory required: 6796 Battery required: 9796
Enable (Start logging)
Recovery - CONNECT 13:15:10 - 6/17/2014 UTC Sensor time: 13:16:00
Actual time: 13:16:00
Battery voltage: 11.97 V
PORTSURE PORT / IMITED TO FINE SAND DEPOSIT ON ONE SIDE OF THREADS, NONE ON DIAPHRAGE 173EET.
RECOVERED NOTES -
6/16/14 18:29 WTL - GP3 FIX
18:30 - Institution Picker-up OFF BOTTOM
18:32 - OUT OF WHTER 20:17 - IN BUCKEL & MOF 10,25m WHTER IN BUCKEL
6/17/16 12:30 - REMOVED From BUCKET
MEM USED = 51,05 MB
13 17:35 - 800 Logger - DOWNLOAD DOTA TO -6 055025-20160417-0915, rsk

Mooring number:	Site name:
Date: may 5, 2010	
Information	
Model#: PBR VIY toso	Serial#: <u>55025</u>
Firmware 12.030	
Battery Voltage: 12, 94v	
Parameter: (dvar)	
Catura	
Setup	, he
Clock set @13:40:00	UTC
Start logging: 10.00.00 am	(515110)
End logging: 8:00:00 am	(5/9/16)
Sampling regime: <u></u> Continuous	
Measurement speed: Period Rate	e <u>4Hz</u>
Sampling regime:Tide	
Tide sampling	
Measurement speed: Period	Rate
Tidal averaging duration:	
Tidal measurement period:	
Sampling regime:Wave	

Measurement speed: Period Rate
Wave burst length (samples):
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required: 5 */*
Battery required:
Enable (Start logging)
Recovery
Sensor time: 15:21: 28
Actual time:15 : 21: 30
Battery voltage: 11.93 V
Fouling comments:



Pressure Calibration Certificate

RBRvirtuoso D|wave s/n: 55025 Sensor rating: 20 dbar s/n: NA

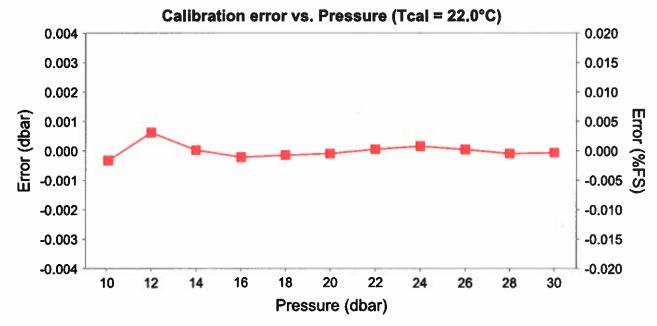
Nominal accuracy: 0.05%FS (0.01 dbar)

Reference instrument: Mensor CPC6000 s/n: 410001LR

Applied pressure,		Measured pressure,	Calibration error (dbar)	Coeff	Coefficients	
P _{app} (dbar)	Voltage ratio, V	P _{meas} (dbar)		CO: C1:	-0.27234942 46.58285079	
10.0906	0.230947	10.0903	-0.0003	C2:	2.07895230	
12.0000 14.0000	0.270908 0.312531	12.0006 14.0001	0.0006 0.0000	C3:	0.94383739	
16.0001	0.353949	15.9999	-0.0002			
18.0000 20.0001	0.395154 0.436140	17.9998 20.0000	-0.0001 -0.0001			
22.0000	0.476898	22.0001	0.0001			
24.0000 26.0000	0.517427 0.557718	24.0002 26.0001	0.0002			
28.0000 30.0000	0.597771 0.637587	27.9999 30.0000	-0.0001 -0.0001			
30.0000	0.037307	30.0000	-0.0001			

 $P_{meas} = C_0 + C_1 \cdot V + C_2 \cdot V^2 + C_3 \cdot V^3$

Head (mm) = 518



Calibration Date: 29/Mar/2016 Issue Date: 31/Mar/2016

055025_20160329_1610P.rsk File Name:

dluong



Deployment Dates

Mooring Number	1059		Mooring Type	LEAD	Disk	
Location	Sandwich	Beach - OFFS	Hores Dat	tes <u>1/21/2</u>	016-	
Experiment	name	Sandwich Be	ach Nouri	shment Moni	toring	

Remarks / Maintenance

Mooring number: 1059 Site name: SANDWICH BENCH
Date: 1/20/16 Operator: 5.547768 / N. D.
Information
Model#: LBR VIRTUSO DWWW Serial#: 055025
Firmware 12.020
Battery Voltage: 12.97
Parameter: Pressure (Abar)
Setup
$\sqrt{\text{Clock set } @ 0 / 20 / 20 / 6 } 19.55:48$
Start logging: 1/21/2016 12:00:00 UTC
Start logging: $\frac{1}{28} \frac{2016}{2016} \frac{19.55:48}{12:00:00}$ End logging: $\frac{3}{28} \frac{2016}{2016} \frac{12:00:00}{12:00:00}$
Sampling regime: Continuous
Measurement speed:Period \(\sqrt{Rate} \) Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave
Wave sampling

Measurement speed: Period Rate	_
Wave burst length (samples):	<u></u>
Wave measurement period:	_
Instrument altitude (m):	_
Mean depth of water (m):	
Wave bandwidth (Hz):	_
Wave periods (s):	
Memory required:	
Memory required:	
Enable (Start logging)	19
Recovery	
Sensor time: $1/24/2014$ 19:00:28 Actual time: $1/24/2014$ 19:00:30	
•	
Battery voltage: 11.5 V	
Fouling comments: NONE - CLEAN	
Dountous FILE NAME -	
1055025_20160126-1902. 55K	801/WB

Mooring number: 1051 Site name:
Date: Y 23/17 Operator: D. NOWACK
Information
Model#: RBR Virtuso dwave Serial#: 055025 Firmware 12.020
Firmware 12.020
Battery Voltage: 12.97 v
Battery Voltage: 12.97 v Parameter: preshre (albar)
Setup
Clock set @ 23/Arr/2015 14:26:19
Clock set @ 23/Arr/2015 14:26:19 Start logging: 4/25/2015 8:00:00 AA
End logging: 10/12/2015 8:30:00 Ph
Sampling regime:Continuous
Measurement speed: Period Rate
Sampling regime:Tide
Sampling regimeride
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave
Wave sampling

Measurement speed: Period Rate 6 H Z
Wave burst length (samples): 4096
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required:
Battery required: 971
Enable (Start logging)
V schedule is Valid - 08:00:00
Recovery
Sensor time:
Actual time:
Battery voltage:
Fouling comments: 3/4 holes blocked with mug in plastic pressure fort
055025_20156713_1514, RSK

Mooring number: 1029c Site name: CBN
Date: 1/21/2015 Operator: 5. Surrlus
Information
Model#: RBL VIRTUOSO DWAVE Serial#: 055025
Firmware 12:020
Battery Voltage: 12.8 \(\)
Parameter: Pressure (dbar)
Setup
V Clock set @ 21/Jan / 2015 23:32:30 UTC
Start logging: 1/22/2015 12:00:00 Am UTC
End logging: \$ 2 / 2015 12:00:00 Am UTC
Sampling regime:Continuous
Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime: XWave

Measurement speed: Period _X Rate _ H2
Wave burst length (samples): 4096
Wave measurement period: 00: 30: 00
Instrument altitude (m):
Mean depth of water (m): 2.3
Wave bandwidth (Hz): 0.0015 to 0.4680 H?
Wave periods (s): 2.14 40 682.67 secs
Memory required: 97 %
Battery required: 94 %
PARAMETORS - Temp = N/A
12 Check schedule enabled
Recovery
Sensor time: 17: 27:35
Actual time: 5:27:30
Battery voltage: 12.06V
Fouling comments: Sed in gressia translacer

memory wed = 67.33mb c:1 Pats files \ EPR \ Chino keaque \ 1029c file = 055025 - 20150421 - 1729, rsk = 810 MB plot = 055025 - 20150421 - 1729

Mooring number: 1029b Site name: CBII
Date: 10/17/2014 Operator: 5, Surriles
Information
Model#: RBR VITTUOSO Serial#: 055025
Firmware $\sqrt{2.020}$
Battery Voltage: 12,93V installed new betts
Parameter: Pressure (dbar)
Setup X Clock set @ 17 Oct 2014 22:45:45
Start logging: 10/18/2014 12:00: Am UTC
End logging: 3 19 2015 12:00:00 Am
Sampling regime:Continuous
Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime: X Wave
oumpining regime. A veave



Measurement speed:PeriodXRateGH2			
Wave burst length (samples): 4096			
Wave measurement period:			
Instrument altitude (m):			
Mean depth of water (m): 2,3			
Wave bandwidth (Hz): 0.0015 40 0.468047			
Wave periods (s): 2.14 +0 682.67			
Memory required: 89% Battery required: 86% X Enable (Start logging) Schedule enabled			
Recovery			
Sensor time: $1/19/2015$ 22:20:00			
Actual time:			
Battery voltage:			
Fouling comments: SEE MOURING LOS			

SAYE/ DOWNLOWN DATA - '055025_20150119_2221.13k'
SIZE = 869,6MB



Deployment Dates

Mooring Number 029	Mooring Type To (ANOR—
	Dates
Experiment name EPR - Chincote	ague .

Remarks / Maintenance

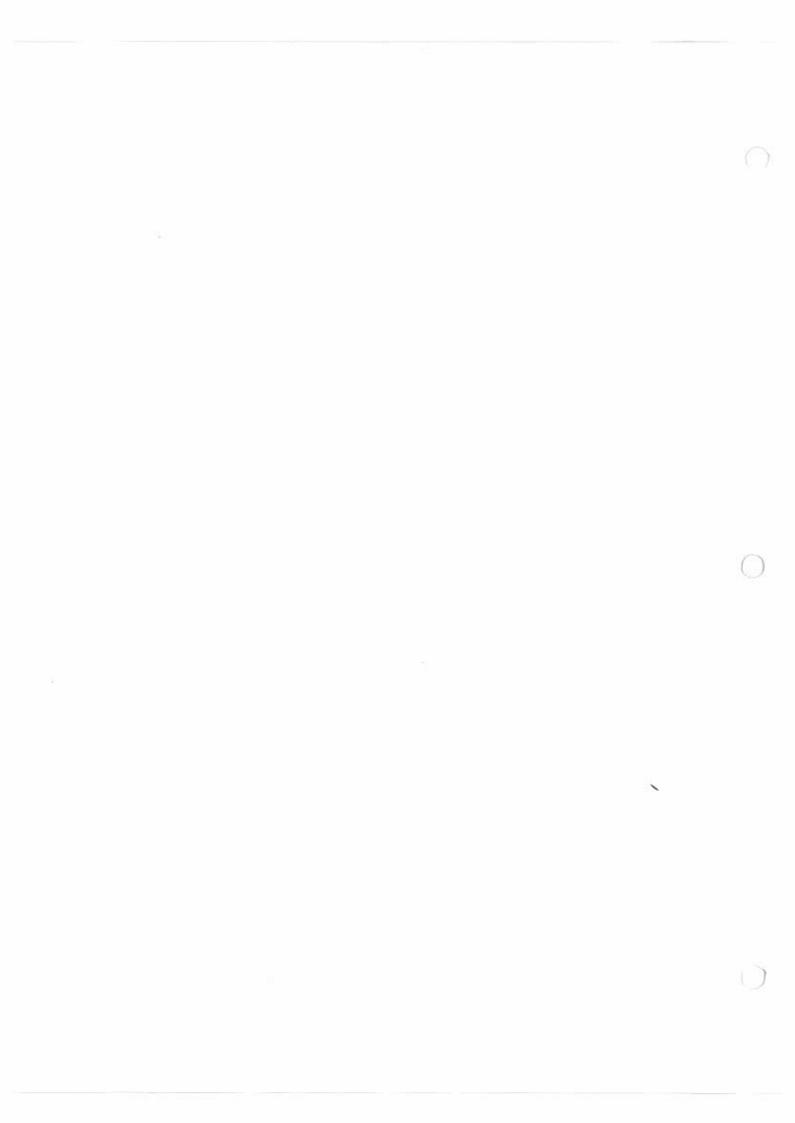
New batteries + desiccant 7/2/14-> WKO

D-rings Cleaned + greesed

RBRvirtuoso Dwave Checkout Sheet

Mooring number: (62.4	Site name: CBII	NEWPOLT BAS
Date: 7-27-14	Site name: CBII Operator: Pat. D	
Information		_
Model#: RBRvirtuoso D/wave	Serial#: <u>55029</u>	<u> </u>
Firmware <u>//, 9/0</u>		
Parameter: Pressure (dbar)		
Parameter: Pressure (dbar)		
Setup	1711	, , , , ,
X Clock set @ 27/Jul/20/4		U/C
Start logging: 8/11/2014 12:00	:03 AM	
Start logging: 8/11/2014 12:00 End logging: 1/28/2015 11:30:00	AM	
Sampling regime:Continuous		
Measurement speed: Period Rate _		
• -	_	
Sampling regime:Tide		
Tide sampling		
Measurement speed: Period	_Rate	
Tidal averaging duration:		
Tidal measurement period:		
Sampling regime: Xwave		
Mayo gamenling		

Measurement speed: Period $\stackrel{\times}{=}$ Rate 6 $\stackrel{\text{$\mathcal{H}_{Z}}}{=}$			
Wave burst length (samples): 4096			
Wave measurement period:			
Instrument altitude (m):			
Mean depth of water (m):			
Wave bandwidth (Hz): 0.017 ± 0.505			
Wave periods (s): 1.98 to 682.67			
Memory required: 100%			
Battery required: 70%			
Enable (Start logging)			
Recovery			
Sensor time: $\frac{32:52:46}{}$			
Actual time: 22: 52: 45			
Battery voltage: 11:35			
Fouling comments:			
nemory used = 49.49 Mb file = "055025_ 2014/015_ 2254" Plot = "055025_ 2014/015_ 2254"			
plot = "055025_ 2014/015_ 2254"			



Notes from conversation with Greg Johnson at RBR on 0ct-1-2014 regarding clock drift issue with Dwave.

- 1. Only applies to continuous sampling with Firmware versions before 11.820.
- 2. Time stamp within burst (or continuous) is not synced with clock so even if clock drift appears to be small, actual time drift in data can be much larger.
- 3. Influenced by a number of factors so difficult to characterize drift and may vary quite a bit between instruments.
- 4. Drift can be as much as 2 hours per month.



Deployment Dates

Mooring 978

Mooring Al Channel
Type Strapped to pole

Location Law altette / Marker 28

Dates 8/14/13 - 9/12/13

Experiment name Barnegat Bay

Remarks / Maintenance

cc: inst. Logs

RBRvirtuoso Dwave Checkout Sheet

Mooring number: 978 Site name: Marker 28
Date: $8//3/20/3$ Operator: $N6/2D$
,
Information
Model#: Serial#: Serial#:
Firmware <u>11.000</u>
Battery Voltage: 12.86
Parameter: Pressure
Setup
Clock set @ 20,19,05
Start logging: 8/14/13 12,00:00 AM
End logging: 9/36/13 17,00,00 PM
Sampling regime: \(\sqrt{Continuous} \)
Measurement speed: Period Rate 6 h 2
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave

Measurement speed: Period Rate
Wave burst length (samples):
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required: 73 %
Battery required: 56%
Enable (Start logging)
Recovery
Sensor time: 46.27.23 9-12-13 Actual time: 9-12-13
Actual time: $\sqrt{6.27.23}$ $\sqrt{7-72-73}$
Battery voltage: 11.92
Fouling comments: Housing + mount Covered in barnacles Barnacles totally over Pressure port but inside of port mostly clean
58.70 mB of data
Filenane: 055025-20130912-1628

(p

0

RBRvirtuoso Dwave Checkout Sheet Marker 40
Mooring number: 964 Date: Grand Barneset Bay Operator: 173 7/16/13 Operator: 170. Sandy B.
Information Model#: RBRVirtuoso Diwave Serial#: 05502 5 Firmware 11,000 Battery Voltage: 12,55 Parameter: Pressure (JBar) 0
Setup Clock set @
Sampling regime: Continuous 6H2 Measurement speed: Period Rate
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave

Measurement speed: Period Rate		
Wave burst length (samples):		
Wave measurement period:		
Instrument altitude (m):		
Mean depth of water (m):		
Wave bandwidth (Hz):		
Wave periods (s):	*	
Memory required: 68 2		
Memory required: 68 % Battery required: 46 %		Sac
Enable (Start logging)		
Recovery	140	
Sensor time: 16:03:48		
Actual time: 16,03,40		4.
Battery voltage: 12.07		
Fouling comments: Herey forting, Some mul in p	vess-n	fort

1. 7

Deployment Dates

Mooring Pale on bridge

Dates 6/26/13 -

Location Rtc. 72 Bridge

Experiment name Barnegat Bay NJ

Remarks / Maintenance

RBRvirtuoso Dwave Checkout Sheet Site name: Rte. 72 Brigge, Barnesat Bay, N. Mooring number: 962 Date: 6-19-13 Operator: Pat D **Information** Model#: RBRuistuss Dlwave Firmware 11.000 Serial#: 055025 Battery Voltage: 12.42 Parameter: Pressure (18ar) Setup Clock set @ \$6/19/13 19:09:10 Start logging: 6/26/13 00:00:00 End logging: 8/29/13 /6:40:42 Sampling regime: **X**Continuous Measurement speed: Period X Rate 6 Hz Sampling regime: __Tide **Tide sampling** Measurement speed: ___ Period ___ Rate _____ Tidal averaging duration: _____ Tidal measurement period: ______

Sampling regime: __Wave



Measurement speed: Period Rate
Wave burst length (samples):
Wave measurement period:
Instrument altitude (m):
Mean depth of water (m):
Wave bandwidth (Hz):
Wave periods (s):
Memory required: 100% Battery required: 68%
Enable (Start logging) Stopped 1699ing @ 18:01
Recovery
Sensor time: 17:58:08 7/16/13
Actual time: 17:58:10 7/16/13
Battery voltage: 12.01 V
Fouling comments: Covered with hairs
file name - C:\data\Barnegat\962dWave 025. rsk

RBRvirtuoso Dwave Checkout Sheet

Mooring number: Site name: CC Canal Date: 5-29-13 Operator: Pat D.
Date: 5-29-13 Operator: Pat D.
Information Model#: D Wave Serial#: 55025 Firmware 12.602 Battery Voltage: 12.602 Parameter: Pressure (JBar
Setup X Clock set @ 13:41:15 GMT
Start logging: 5/30/43 11:00:00 AM
X Clock set @ 13:41:15 GMT Start logging: 5/30/43 11:00:00 AM End logging: 8/3/13 3:40:42 AM (out-frenery)
Sampling regime: \underline{X} Continuous Measurement speed:Period \underline{X} Rate \underline{G} \underline{HZ} O.15 mab
Sampling regime:Tide
Tide sampling
Measurement speed: Period Rate
Tidal averaging duration:
Tidal measurement period:
Sampling regime:Wave

	Measurement speed: Period Rate	
	Wave burst length (samples):	
	Wave measurement period:	····
	Instrument altitude (m):	
	Mean depth of water (m):	
	Wave bandwidth (Hz):	
	Wave periods (s):	
	Memory required: 100 % Battery required: 68% Enable (Start logging)	
	Recovery	
	Sensor time:	
	Actual time:	
	Battery voltage:	
	Fouling comments:	
•	'	



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I	Item	Qty	Description
		1	Data Logger Model RBRvirtuoso D wave Serial # 55025 Firmware v11.00 Depth rating 0-10m (20 dBar) Educational Discount Complete with: Set of Calibration Certificates L2 USB Interface Cable USB: Manual, Software v1.7.19 L2 Logger Support Kit

Business No.

104516604

Prepared By:



RBR

rbr-global.com

RBR Limited, 95 Hines Road, Unit 5, Kanata, Ontario, K2K 2M5 Tel: +1 613 233 1621 Fax: +1 613 233 4100 info@rbr-global.com

Pressure Calibration Certificate

100	desiduals, dBa		Logger pr Residual						2				
			essure=a+b*\ = logger pre	28.6333	25.8758	23.8077	21.0503	18.9822	16.2248	14.1567	10.1705		Pressure (dBar)
Pressure dBars			Logger pressure=a+b*VR+c*VR^2+d*VR^3 Residual = logger pressure - Pressure	0.593232	0.537937	0.496181	0.440057	0.397687	0.340786	0.297761	0.214404		Logger reading
	10	R	Ф	0.0005	-0.0010	0.0000	-0.0002	0.0009	0.0013	-0.0021	0.0005		Residuals
	3	Residuals versus Pressure	Atmos. P Ht (cm)				വ	ი	р,	D		Coe	Log
	20 2	BSSUTE	10.171 15				1.566178797046	1.471941195428	46.725310183421	0.069809566783		Coefficients	Logger Calibration
	30												

Calibration Date:

3-May-12

Operator:

**