

Station MB

3/6/12

RDI 600 MHz ADCP

s/n WHSW600-I-UG65 (7260)
VIMS ET-0485

Battery voltage - 45 volts (EOD voltage 36.2)

7600, N, 8, 1

255,565,824 Bytes free \approx 255 MB

Compass calibration -

AR - returns to factory calibration

AX - check calibration

Total error $\rightarrow 3.7^\circ$

AF - tilt unit bit 10-200

starting $\left\{ \begin{array}{l} \text{pitch } (-) 9.6 \\ \text{roll } (-) 5.3 \end{array} \right.$

total error before 3.3°

Overall error: $\pm 3.27^\circ$

Detail error summary

Single cycle error $\pm 3.3^\circ$

double cycle error $\pm 0.33^\circ$

Largest double + single cycle error: $\pm 3.63^\circ$

RMS of 3rd order + higher + random error: $\pm 0.41^\circ$

orientation i up

Avg pitch: $-9.78^\circ \pm 1.19^\circ$

Avg roll: $-3.14^\circ \pm 1.2^\circ$

CZ - put to sleep.

Station M1

RDI 1200 MHz ADCP

S/N WHSW1200-I-UG34 (5793)

VIMS 18437

Battery Voltage -45 volts (end voltage 35.7V)

9600, N, 8, 1

104355712 bytes free = 1 GB

Script. ~~MI~~ MI-SN5793-1200.rds

Depth - 13 meters

AR

~~AX total error = 2.70~~

AX

total error 2.330

single: 2.350

double: 0.330

largest d + s: 2.080

RMS 1/3: 0.730; orientation up

pitch: -0.36 ± .75

roll: -1.13 ± 0.83

pitch or roll std dev. higher than expected
deployed with: m1-5793.rds

Beam 3 to X

YSI 6600M(2) (CTD)

S/N: 07B1391

VINS: 20490

3-7-12

Station SB

Deployed by X Fall

Interval = 00:05:00

Start Date: 03/12/12

Start time: ~~12:00:00~~ 08:00:00

duration days = 365

File = SB-MAR12

Site = SB

Bat volts = 12.6

Bat life = 99.6

Free mem = ~~4215 days~~ 84.9 days

1st sample: ~~4215 days~~ 3.70 days

3-8-12: Pressure Calibration +
redeploy; Same STUFF as above.

Time: 2:33:19 pm EST

3/08/12 14:33:19 21.85 0.001 0.00 -0.010 0.7 12

Deployed at M2 - According to
Canada records

re-deployed on 3-8-12
after pressure calibration

YSI (6600) EDS-M (CTD)

S/N: ~~11000~~ 03K0492 AB

VIMS:

3-7-12

37

Site MB - ~~11000~~ emab (conductivity sensor)

Deployed by K. Fall

Interval = 00:05:00

Start date = 03/12/12

Start time = ~~08:00:00~~ 08:00:00

Duration days = 365

File = MB-MAR12

Site = M13

Bats Volt = 12.0

Bat life = 83.8 days

Free mem = ~~84.9 days~~ 84.9 days

1st sample = ~~4.13~~ days
3.75

redeployed
on 3-8-12
after
pressure
calibration

3-8-12 Pressure calibration + re-deploy

time: 2:42:24 pm EST

Pressure Calibration

3/08/12 14:42:24 21.99 0.00 0.00 -0.001 4.5 12.1

ADV X sensor in line with
beam 3 of ADCP

New ADV

Sontek ADV B336 (Battery Pack G#14)

Battery Voltage: 19.06v, 19.07v

Connects @ baud rate 19200

Site M11 - ADV on tripod 75 cm ab

Compass Calibration

Horizontal: 5 (Poor)

Vertical: 1 (very poor)

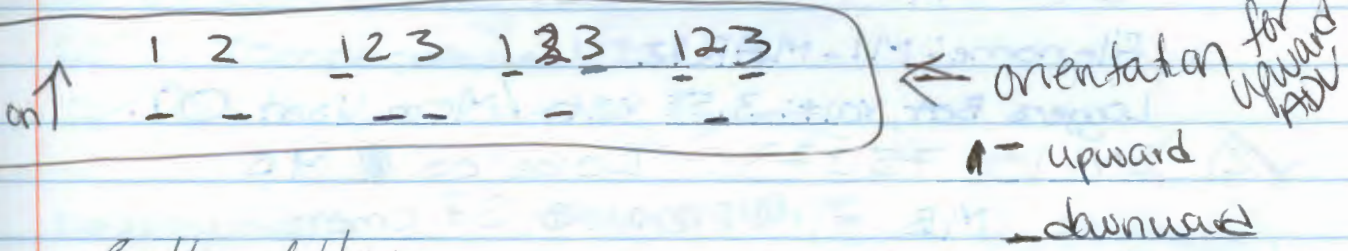
magnetic: 3.11 Excellent

Results: fail

Free memory 1024866656 Free Bytes
118.42 Days spent

* may have problems with tilt sensor
 - use ADCP for compass / tilt / roll
 Sontek ADV B337 (Battery G447)

Changed orientation to match B336 (new ADV)



Battery Voltage:

Old:	16.32	16.28
New	19.09	19.07

Note: It likes to connect @ baud rate 9600, not 19200

3-7-12 Site MB - ADV: 75 cma b
 Deployed by K. Fall (will deploy when
 Sample rate: 25 Hz (Compass Calibrate)
 Deployment: MBM12
 Start date: 2012/03/12
 Start time: ~~11:00~~ am (EST) 07:55:00 am
 Samples per burst: 8192
 Burst interval: 1800 (every 30 minutes)

3-12 Compass calibration
 Hor: 9 (Excellent) Sid: 10⁴ psu
 Vert: 0 (Very poor) Temp: 10⁰ c
 Ambient magnetic: 6.09 (Excellent)

Results: Fail
 Free 1024966656 Free Byte
 118.42 Days

* Old files discarded @ re-launch *
* Be sure to save them before new launch *
3-8-12

Mobile data loggers (6) - painted

✓ 1) SN: 10075270 - Labeled M1
Site: M1 - 37.5 cmab
Filename: M1-MAR12

✓ 2) SN: 10075273 - Labeled M2
Site: MB - ~~M2~~ 37 cmab
Filename: MB-MAR12

✓ 3) SN: 10075272 - Labeled M3
Site: M3 * on Tower M3
Filename: M3-MAR12-9

✓ 4) SN: 10075265 - Labeled M5
Site: M5
Filename: M5-MAR12-23

OW
M43

5) SN: 10075274 - Labeled M7
Site: M7

Filename: M7-MAR12

Batt Volt: 3.60 / Mem Used 0%

6) SN: 10075264 - Labeled SB
Site: SB

Filename: SB-MAR12

Batt Volt: 3.60 / Mem Used 0%

Deploy
S2

Hobo's Set-up (Same for all G)

Description: (Enter filename)

Sensors:

- 1) Conductivity low range
- 2) Conductivity high range
- 3) Temperature U24
- 4) Logger's battery voltage

Deployment (* can't be changed)

Logging Interval	Samples	Log Until
1) 15 minutes	9999	104.1

Start Logging: On Date/Time 03/12/12 12:00:00 PM

3-9-12 Nortek ADV's (SN, names, location)

Station M3 tower

- | | <u>Head</u> | <u>Hardware</u> | <u>VIMS</u> | <u>Name</u> |
|----|-------------|-----------------|-------------|--------------|
| 1) | VCH4856 | VEC9685 | V21967 | TM3-MAR12-3 |
| 2) | VCH4844 | VEC9679 | V21966 | TM3-MAR12-9 |
| 3) | VCH48454 | VEC9699 | V21968 | TM3-MAR12-16 |
| 4) | VEH4493 | VEC9697 | V20113 | TM3-MAR12-23 |
| 5) | VCH4867 | VEC9688 | — | TM3-MAR12-30 |
| 6) | VCH4871 | VEC9691 | — | TM3-MAR12-37 |

3-9-12 TT-realtime clock

* ADCP MB compass calibration

~~Before turning~~

2nd turn - std dev still greater than 1
for pitch + roll

3rd turn - 0.7° but pitch + roll
std deviation 1.2 (slightly higher than
1)

* Compass Calibration Take 2 - more level frame

AR - return to faculty

AX - total error ~~4.79~~ 4.48°

pitch/roll

Single: 4.51°

double: 0.27°

Largest double + single: 4.79°

RMS: 3rd order: 0.35°

Orientation ~~up~~ up

pitch: 0.57 ± 0.78

roll: 0.15 ± 0.88

Deployment Scheme (600 MHz)

TI: Set the current date + time

TG2012/03/12, 08:00:00 → Set deployment date/time

~~RNMBM12~~ RNMBM12 - name file MBM12

TE: 00:00:05:00

* set up ~~data~~ in file called: MB_5793.rds *

Temp: 5°C

Depth: 32 meters

MB-7260.105

MI-5793.105

CRI

CRI

TG 20120312, 08:00:00

~~TG 2012~~ ✓

RN MSM12
EAO CF1101

RN MI M12

EBO

✓

EO320

ED120

ES10

✓

EX1111

✓

EZ111101

✓

WASO

WA50

BWBO

✓

WD 111100000

✓

WM1

✓

WF88

WF44

WN32

WN25

WP100
~~WS100~~

WP120

WV175

~~WS50~~

TE00:05.00,00

TP00:03.00

TP00:02:50 ~~00~~

All Instruments + Landers Deployed
By UMCS.