

VPR II STANDARD LOG SHEET

Cruise: TN 376 Camera setting or FOV: SI

Post processing:
Threshold & Sobel Settings:
Calibration file:
Current values for F/I/E = 023700, 003000, 028500

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File
	1/27/2010	07:41	1, VPR 1	01270623
		07:58	"	
		11:26		
		12:41		
		14:31		
		15:12		
		16:51		
		17:00		
	1/28/2010	23:27	UPR2	01282324
		00:30		
		01:30		
		03:04		
		03:08		
		04:00		

Notes:
 Δ Calib values to 1-135, S=44, STD-3 MB/D, MS1
 After primary into lower S-w high surface FI, lots of gelatinous oys -
 salps, ctenos, jellyfish.
 Surface bloom, high backscatter
 surface bloom lessening } fewer gelatinous types
 Polidid bloom - deep.
 ~50m lots of diatoms - too tiny for ROI, but visible (F=275)
 winds picking up to 30+ kt. 356
 all
 o.o. water
 Start & restart Deck @ 23:27 10 kt.
 Large ctenophores showing up regularly; small 112"
 Shrimp showing up regularly. common.
 Ship slows ~2 kt while they Δ preparations.
 Back up to 10+ kts.
 Starting to get into feature - coccolithus
 lots of discrete targets not being captured
 by ROI extraction, perhaps adjust
 parameters?
 a large round targets - Diatoms? antenae?

0951

VPR II STANDARD LOG SHEET

Cruise: *TN376*

Camera setting or FOV:

SI

Post processing:

Threshold & Sobel Settings: *1-135, S44, ST03, MB10, MJ1*

Calibration file:

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	2020-29-JAN	13:30	VPR2	01282324	TENSION WAS HITTING PEAKS OVER 3000, DROPPED SPEED <i>4 1/2 A KNOT</i>
	"	15:30	"	"	MAX DEPTH SET TO 110 m DUE TO ALGON HITTING -10
	"	15:42	"	"	INSTRUCTED BRIDGE TO SLOWDOWN (AGAIN) TO 4.5 KNOTS. MAX
					MAX DEPTH ALSO SET TO 100m. REASON FOR BOTH MAX
					TENSION > 3000 & ALGON AT -10 ON DESCENT
	"	19:01	"	"	TENSION @ 3100, SLOWED DOWN TO 4 KNOTS
	<i>1/29/20</i>	<i>20:40</i>			Recover
	2020-30-JAN	09:11	VPR#3	01300910	- Deploy - Sunny skies, 16°C, 25kt wind ~ 12' swell
					↳ CHANGED SOBEL TO 2 → CATCH MORE SMALL DIATOMS
					New Calib file → 1-135, Sob 5, ST03, 300%, MB10, MJ1
					110 m Z
		<i>0951</i>			Δ to 100m Z
		<i>~1100</i>			Slow to 8kt - Reel in to 150m, while ship ΔS engines.
					Δ course to down sea.
		<i>11:50</i>			INCREASE SPEED, PAY OUT CABLE, START MANOVATING
		<i>12:13</i>			XBT Launch 1
		<i>13:09</i>			" " 2.
		<i>14:03</i>			" " 3.

VPR II STANDARD LOG SHEET

Cruise: TN 376		Camera setting or FOV: S1		Post processing:
				Threshold & Sobel Settings: 1-B5, 55, STD16 MB10, M51
				Calibration file:
YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File
	2025-26-JAN	15:04	VPR #3	01300910
		15:32		
				XBT A
				Weird Temperature logging w/ VP Plot. Restart 409.15. Deck shows T @ 4.2° but plotting program plots time T = ~16° to 14°C. VP is correct.
				→ Conductivity = Temperature and vice versa
		16:03	VPR3 (cont.)	XBT 5 depth 17:05 #6, 19:07 #7, 20:03 #8
		22:08		XBT 6 21:01 = 9, 22:04 #10 - N.C., 22:08 #11
		23:24	"	XBT #12 XBT #13 @ 0003 XBT #14 @ 0102
				XBT #15 @ 0102 XBT #16 @ 03:01
				XBT #17 @
				XBT 18 0505
JAN 31		~ 07:00		Reopen Fish - no eng. display data
				Cleaned Eng. FO connector in oil 5-box. Clean, reseat Optolink connector Eng. ran → worked!
1-31-2020	11:33		VPR 4	01311132
	12:39			XBT19 @ 0611 XBT20 @ 12:08
	14:03			90° TURN TO PORT, 15°/MIN
	16:12		→ Eng. Flown Again	XBT 22 @ 13:01 XBT23 @ 14:02
				Brief outage of video? Raw vid seemed fine but dim - no image - paramet boxes working. Filt. Data. were regular now
	~1640			-Video processing out - No stroke?
	1642			Back on again.

VPR II STANDARD LOG SHEET

Cruise: TN 376 Camera setting or FOV: S1 Post processing: Threshold & Sobel Settings: 1-135, Sob5, SDO10, WA 0, MJ 1 Calibration file: TN 376-V2

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	JAN 31, 2020		VPR 4 (cont.)	01311132	XBT 24 @ 17:02
		0832	VPR 4		no POTS
		1834			ROI's comm. barn
		1941			ROI's obs
		1949			ROI's back
		1950			haul in cable, some pauses in d...
		2011			off Tightened Eng. Optolink cable; Replaced FO. Cable (JBox to Sci) and bulkhead connectors working now!
	FEB 01, 2020	09:39	VPR 5	02010938	STROBE DID NOT TURN ON DURING LAUNCH -
					XBT #27 @ 10:14 XBT #28 @ 11:17 XBT #29 @ 12:11
		1230			Small Diatoms very numerous
					XBT #30 @ 13:00 XBT #31 @ 14:00 (32) 14:12
					XBT #33 @ 15:04, #XBT 34 @ 16:02, #35 @ 17:05 #36 @ 18:00, #37 @ 19:00
		2249			off XBT #38 @ 19:59, #39 @ 20:56, #40 @ 20:59, #41 @ 21:04, #42 @ 22:03
	FEB 03, 2020	00:12	VPR 6	02030006	
		00:47			Turn to port; Increase speed to 9.5 Kt, 115° heading
		01:04			Increase speed to 18 Kt, Heading 117°
					XBT #43 @ 02:00 XBT #44 @ 02:57, XBT #45 @ 03:59
					XBT 44 @ 5:04
		0559			XBT 46

VPR II STANDARD LOG SHEET

Cruise: <u>TN 276</u>	Camera setting or FOV: <u>S1</u>	Post processing:
		Threshold & Sobel Settings: <u>1-135</u>
		Calibration file: <u>TN 276-V3</u>

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	Feb 3	06:59	VPR 6		XBT 47
		08:01			XBT 48 second half hour
		08:05			XBT 49 overtemp in temp
		08:15			XBT 50
		09:01			XBT 51 Lat 39.4224 long 35.3941
		947			11
FEB 3		05:21	VPR 7	4204 05-20	
		5:59			XBT 52
		7:00			XBT 53
		07:30			ΔZ to 90m - have been getting extraneous (17) data points @ depth. Data File is 20200302743.KV
		08:02			XBT 54
		09:00			XBT 55
		09:58			XBT 56 no output
		10:01			XBT 57 no output
		10:07			XBT 58 no data
		10:17			XBT 58.5 good
					XBT 59 @ 11:02 XBT #60 @ 12:11 (RECAST @ 12:15)
					XBT #62 @ 13:48 XBT #63 @ 14:07, XBT #64 @ 14
		14:53			XBT 64

15:17

ofn Upon recovery found strid. tail strid had sheared off.

VPR II STANDARD LOG SHEET

Cruise: TN 376		Camera setting or FOV: S1		Threshold & Sobel Settings: 1→13574; Sobel = 5.	
				Calibration file: TN 376-V2	
YearDay					
UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:	
2/5/20	07:33	VPR8	02050732	XBT 67 @ 8:06 (65, 66 N.E.) Sunny Low	
	08:33			XBT 68 @ 8:38	
	09:00			XBT 69	
	09:29			XBT 70; XBT 71 @ 10:02;	
				XBT 72, 73, 74 BAD @ 10:30, 10:32, 10:34. → 75 GOOD	
				XBT 78 @ 11:03	
	1108			Slow to 8.5 Kt. Aileron @ 12 on pitch up	
				XBT 79 @ 11:29 XBT #80 @ 11:40 XBT #81 @ 12:28	
				XBT 82 @ 12:57	
	1305			Turn to port	
	1320			Start to haul back.	
	1343	VPR8		off	
FEB 5 2020	20:01	VPR9	02051959	Deploy → STROBE ON @ LAUNCH	
	20:33			XBT 83	
	21:00			XBT 84	
	21:30			XBT 85	
	2200			XBT 86 XBT 87 @ 22:32 XBT 88 @ 2301	
				XBT 89 @ 23:30 XBT #90 @ 00:00 XBT #91 @ 00:07	
2/6/20	0115		→ 3465	XBT 92 @ 00:35 XBT #94 @ 01:07	

② 30M

→ 200m → Surface! - just one patch - one target

VPRII STANDARD LOG SHEET

Cruise: TN 376		Camera setting or FOV: 51		Post processing:
				Threshold & Sobel Settings:
				Calibration file: TN 376-V2
YearDay				
UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
2/6/2020		VPRII #9	02051959	XBT #95 @ 01:30 XBT #96 @ 02:00 #97 @ 02:35 → N.E. XBT #98 @ 02:20 XBT #99 @ 03:00 XBT 100 @ 03:31 XBT #101 @ 04:01
	04:29			XBT 102
	05:01			XBT 103
	05:28			XBT 104
	05:58			XBT 105
	06:27			XBT 106
	06:58			XBT 107
	07:28			XBT 108 had data
	07:30			XBT 109
	07:57			XBT 110
	08:29			XBT 111 had data
	08:30			XBT 112
	08:58			XBT 113
	09:29			XBT 114
	09:57			XBT 115
				XBT 116 @ 10:30; XBT #117 @ 10:54 XBT #118 @ 11:34
				XBT #119 @ 12:01 XBT #120 @ 12:32
	1250			Start turn to port @ Northern Edge of ring

VPR II STANDARD LOG SHEET

Cruise: TN 376	Camera setting or FOV: S1	Post processing:
		Threshold & Sobel Settings:
		Calibration file: TN 376-V2

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	2/6/2020	1302	VPR 9	02051959	Turn Complete; Southward heading. XBT#121@13:06
					XBT#122@1334; #123@1336; #124@1403
					XBT#125@1433; XBT#126@15:00h
					XBT#127@15:32; #128@16:03
		16:30			XBT 129
		1700			XBT 130
		1733			XBT 131
		1800			XBT 132
		1802			XBT 133
		1831			XBT 134
		1900			XBT 135
		1924			XBT 136
		1957			XBT 137
		20:27			XBT 138
		20:57			XBT 139
		2130			XBT 140
		22:07			g/f
	XBT #143	Feb. 8, 2020	@0915	- CTD cal.	XBT 75 Term. @ 0922 Possibly n.g.
	#144	0923	2/8/20		XBT 75 Repeat measurement

* Now using T.5 XBTs to 1500m.

#145 @ 0930 2/8/20 T7
#146, T5 underway 2/8/20 @ 0934

T7
35.53166° 37° 24.022' E
#147, T3 @ 0941
#148 T7 @ 0944 - n.g.
#149 T7 @ 0949
35.8834; 37.3326

Feb. 9, 2020. Noticed that ^{Gobo} Flight Computer is 30 sec. behind ^{Wembley} RO1 Computer Clock!

VPR II		STANDARD LOG SHEET		Post processing:	
Cruise: TN 376		Camera setting or FOV: S1		Threshold & Sobel Settings: 0-135 and Sobel 5	
				Calibration file: TN376-V2	
YearDay					
UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:	
	COMPUTER	W			
	CLOCK	CHECK	-2/15/20		
	W	COMP. TIME	A		
		GORO			
	16:36:00	16:36:10	Computer 10 sec. ahead		
	16:37:00	WEMBLEY	Computer 41 sec. ahead		
		16:37:41			
Feb. 15	2020	→ Change and sync computing			
	GORO	WEMBLEY			
	18:19:29	18:19:30			
FEB 16	03:02	VPR 10	02160332	2 nd LEE of SAMW	
2020				XBT #150 @ 04:01	
				Very low ROIs being captured	
				vertical settings	
				XBT 151 @ 0430	
				XBT 152 0500	
				XBT 153 0531	
				XBT 154 0558	
				XBT 155 0629	

→ CAMERA INTERNAL ALIGNMENT FIXED DURING VPR 11

VPR II

STANDARD LOG SHEET

Cruise: TN 376

Camera setting or FOV: S1

Post processing:

Threshold & Sobel Settings: 0-135 5eq, 5 sob, 10 5th, 10 1st, 1 MT

Calibration file: TN 376-V1

YearDay	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	Feb 16	0700	10	02160332	XBT 156 at
		0728			XBT 157
		0759			XBT 158
		0828			XBT 159
		0859			XBT 160
		0928			XBT 161, XBT 155 @ 10:04 XBT #167 @ 10:34
					XBT #168 @ 11:05 Krill showing up periodically 41.5, 32.0 at con. (41.14/21) 20 m
					XBT 169 @ 11:33 XBT 170 @ 11:59 XBT #171 @ 12:31
					XBT #172 @ 12:32 XBT #173 @ 13:00 (2)
		13:24			TRIPLET DATA CLOSTED FOR ~30s BY ACCIDENT ONLY BOTTOM OF A TOW TO AFFECTED
					XBT #175 @ 13:32, XBT #176 @ 14:01
		14:20			SHARD TURN TO PORT & STARBOARD DUE TO GYRO MALFUNCTION
					XBT #177 @ 14:31
		14:57			GYROS ARE BACK
					XBT #178 @ 15:00, XBT #179 ~ @ 15:40
					XBT #180 @ 16:00
		16:29			and
					Upon recovery, we checked cam-strobe alignment - off in U R quad of rectangle.
					Moved cam fwd -> too far to replace tip tube.
					Moved strobe forward, camera back, + secured.
					Lighted circle in direct center of viewing rectangle!

VPR II STANDARD LOG SHEET

Cruise: **7N376**Camera setting or FOV: **5Z**

Post processing:

Threshold & Sobel Settings: **0-135, Sob=5**Calibration file: **7N376-V2**

YearDay

UTC DATE

UTC Time

Station/Cast #

LOG File

Notes:

2/18/2000

03:13

#11

02180313

Very few rois

XBT 181 3130

0402

XBT 182

0429

XBT 183 - stopped at 900m

0433

XBT 184 data turned bad

0435

XBT 185

0459

XBT 186 bad at ~700m

0502

XBT 187 bad at 800m

0529

XBT 188 bad at ~900

0600

XBT 189 bad at 400

0603

XBT 190 bad at 1000

0620

- Start adjusting optics on Deck Program

0625

02180625

Δ to 5Z - rois seen!

0630

↳ ANOTHER vpr log

XBT 191

0630

FILE WAS
CREATED, TRIGGER
WAS NOT TRANSFERRED

- Reset Camera SI by Δ'ed mag. Camera appeared to be knocked out of alignment.

0659

XBT 192 bad at 800

0731

XBT 193 / XBT 194 good to 1350

0758

XBT 195 good to 920

0829

XBT 196 good to 875

VPR II STANDARD LOG SHEET

Cruise: TN 376

Camera setting or FOV:

S1

Post processing:

Threshold & Sobel Settings: 0.135

Calibration file: TN 376-V2

YearDay

UTC DATE

UTC Time

Station/Cast #

LOG File

Notes:

2/18/2020

8:57

11

02180626

XBT 197 500m to 980m

09:28

XBT 198 500m to 910m

XBT 199 @ 10:04 XBT#200 @ 10:32

XBT 201 @ 11:00 ; XBT#202 @ 11:28

2/18

11:53; 11:58

Δ Ship Speed from 9.5 → 10.0; Too high with 11:58; drop back to 9.5 ft.

2/18

XBT#203 @ 12:00

12:17

TRIPLET NEVER SWITCHED TO NEW FILE, SWITCHED NOW

XBT 204 @ 12:30 XBT#205 @ 13:01 XBT#206 @ 13:30

XBT#207 @ 14:00 XBT#208 @ 14:30

XBT#209-NG / #210 @ 15:03 XBT 211 @ 15:30

XBT #212 @ 16:01 XBT#213 @ 16:30

16:58

off

VPR II STANDARD LOG SHEET

Cruise: TN376		Camera setting or FOV: SL		Post processing:
				Threshold & Sobel Settings: 0-135, 845
				Calibration file: TN376-V2
YearDay				
UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
2/19/20	15:17	12	02191517	
				XBT#214@16:00
	1630			XBT#215
	1655			Δ sample depth from 6 to 5m
	1704			lots of marine snow upper 20m
	1700			XBT#216
	1730			XBT#217
	1800			XBT#218 ^{bad} , XBT#219
	1830			XBT#220 ^{bad} , XBT#221
	1900			XBT#222
	1950			XBT#223
	2000			XBT#224
	2030			XBT#225
	2100			XBT#226, XBT#227 @ 2130
	2150			XBT#228 @ 22:00h.
	22:15			STARTED TURN TO PORT → DONE @ ~22:20
				XBT#229 @ 22:30; XBT#230-N6. 231 @ 23:04
				XBT#232 @ 23:32; XBT#233 @ 00:00; #234 @ 00:31h.
2/20				XBT#235 @ 01:04; XBT#236 @ 01:34; XBT#237 @ 02:00

VPR II STANDARD LOG SHEET		Post processing:
Cruise: TN 376	Camera setting or FOV: S1	Threshold & Sobel Settings: 0-135, 5085, STD10, M
		Calibration file: TN 376-V2

Threshold & Sobel Settings: 0-135, 508-5 STD10, M8-10, M5, 1
Calibration file: TN 376-V2

Calibration file: TN 376-V2

[illegible]

VPR II STANDARD LOG SHEET

Post processing:

Cruise: 7N 376

Camera setting or FOV:

S1

Threshold & Sobel Settings: 0.135, Feb. 5

Calibration file: 7N 376-V2

YearDay

UTC DATE

UTC Time

Station/Cast #

LOG File

Notes:

2/2/2010	04:10	13	0222 04 09	Wemby 2 sec ahead of UTC
	0506			XBT 250 SALPS, ACANTH,
	0515			Possible tail shield loss - extreme alien rhes - adjust w/ rudder bias (+4)
				Angle @ bottom ~ 7
	600			XBT 251
	06:33			XBT 252
	0700			XBT 253, 254
	07:30		7:32	XBT 255 bad XBT 256
	0808			XBT 257
	08:29			XBT 258 good to 1200
	0900			XBT 259
	0928			XBT 260 bad
	0929			XBT 261 good to 970
				XBT 262 @ 10:01 XBT 263 @ 10:30
	10:51			OCCASIONAL STROBE PROBLEMS
				XBT #264 @ 10:58
	11:55			End

VPR II STANDARD LOG SHEET		Post processing:
Cruise: TN 376	Camera setting or FOV: SI	Threshold & Sobel Settings: 0-135, Sob = 5
		Calibration file: TN 376-V2

Threshold & Sobel Settings: $\theta = 135$, $\text{Sub} = 5$

Calibration file: TN 376-V2

[illegible]