

VPR II Log Sheet for RB 1904

VPR II STANDARD LOG SHEET

Cruise: RB19-04 Camera setting or FOV: SI

Post processing:  
 Threshold & Sobel Settings: 135 0  
 Calibration file:

Year/Day	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
	5-14-19	1753	VPR 2	05141745.y19 ✓	17:53 (2) Deploy in med. Swells Sailed Deck w/ following Parameters Threshold 0 → 135, Sobel = 0, STD = 1 Growth = 30090, Min Pktb = 10, MinJoin = 1 Many small, imaged - in focus. Shortly after getting plot program running, noticed that fish was unable to get to 75m (LWT 40275) Corrected drift ~ 1/8. 2° however image quality ~ 1/8. Diatoms near surface @ off star end of trawnet Got ~ 19:40 local. (2340 UTC) ~ 2/3 of Baring Stripped off by fishing gear. Strider loose and needed re-alignment, Launch - calm sea, sunny skies
	5-16-19	1836	VPR 2	05161836.y19 ✓	Launch - calm sea, sunny skies
		1855		05161838.tip	Sturdy trawnet but AS → 8 110 large spheres very prevalent @ surface and 0-40m
		1905			105m w/o
		1915			New thresh. setting 0 → 139/Sobel = 0, STD = 1, 300, 10, 1 120m w/o

\* Note VPR computer sending 1 hr. behind 1844 = 1944(Z)

VPR II STANDARD LOG SHEET

Cruise: RB1909

Camera setting or FOV: S1

Post processing:

Threshold & Sobel Settings:

Calibration file:

Year/Day	UTC Time	Station/Cast #	LOG File	Notes:
5/16/19	1944	VPR2	05161836.119*	150m w/o → young <del>80</del> m w/ fish Whales spotted down ahead. Speed reduced to 7kt, cutter bow Δ'd to 8 from 1 30m cable to 180m → Depth = 85m 40m to 220 w/o / Depth target 95m Retire ramp.
	1958			
	2002			
	2008			
	0004			
5/18/19		1710 (lead)	05182113.119'	220m w/o. Target Z = 95m Ghost spheres still present. Thr. 135 → 0; Sobel = 3, STD 2, 300, 10, 1
		VPR3		
		2110 (Z)		
5/19/19	1510	VPR4	05191512.119'	05 @ 1845 (lead) 2245 (Z) Nbs Δ firm water depth's crew/strobe alignment A12 station beginning Target Depth = 95m lots of small plankton. capped m.s. sawo diaform Decrease target Z to 90m " " 85m End of 2101 - Start to turn Surface water. Also C. Fin in air.
	1530			
	1536			
	1555			
	1607 (Z)			
	1629			

1636 Start ~~turn~~ turn for new transect - end of 1st S-N Transect.

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Cruise: RB1904

Camera setting or FOV: S1

Post processing:

Threshold & Sobel Settings:

Calibration file:

Year/Day	UTC Time	Station/Cast #	LOG File	Notes:
5/19/19	1643	VP24 (cont'd)	05191512.V19	Eddy mapping
	1748	NORTH	-SOUTH Transect	'start'
	1756			SALPS in surface water.
	20.23			▷ Depth to 94m
	20:54			Beginning to turn, Diatoms very abundant 0-20m
5/20	00:19		- S.O. water	'start' mostly <i>Gammarid</i> - <i>fish</i>
05/21/2019	12:22	VPRII S	05211244.V19 ✓	Deploy BR:42
	13:12			1312 - start S transect Diatoms abundant
	13:30			-- Diatom just @ ~36m 0 → 40m,
	13:31			27 - 39 m 12yr old Diatom.
	14:00			Few diatoms @ 9-12m
	14:10			Start Diatoms 0-23m.
	14:12			End 1 <sup>st</sup> transect. Turning to port.
	14:25			Diatoms coming back while on turning east
	14:45			turning North now. Diatoms frequent @ surface.
	14:52			~15m diatoms frequent to the surface.
	14:55			Transect #2 - Northward. 21°C surface temp!

~ 1.3 km peak to peak of Towyo

STANDARD LOG SHEET

VPR II  
Cruise: RB1904

Camera setting or FOV: 51

Post processing:

Threshold & Sobel Settings:

Calibration file:

Year/Day	UTC Time	Station/Cast #	LOG File	Notes:
5/21/19	15:00	5-covd	05211244.V19	Coil diatoms showing up in Diatom layer. <small>Good for reference</small>
	16:02			Diatom layer appears 18 → 25m
	16:05			37m → heavy around 29 → 18m <sup>th</sup> /2m → 2.8m
	16:18			20m layer to the surface - intense conc
	16:29			45m layer starts - very intense
	18:12			First trace of few diatoms. 2nd trace @ 18/5 - saw
	18:45			Begin trail-look.
	19:40	VPR C	05211942.V19 ✓	2-95, climb 18, Dive 22, Red+2
5/21/19	19:59			North to South to A1E
	<del>19:30</del>	VPR C	05211959.V19 ✓	Plotting in video box - Stop Deck
				Restart. Better but appears that stroke + rain are
				out of synch. Camera link cable very loose, going
				into back of WEMERY Real computer
	20:14			Gate surface. Cooler temps - 11° @ surface.
	20:25			First diatoms appear @ 7m. 33% @ 11°C
	20:57			More diatoms ~15m but not the concentration we are hoping
	21:01			Diatom layer curves @ next tow 0. 34.1% @ 15-20m
	21:05			" " 1st. 15m-30m 34.9% @
	22:38			Diatoms thinning out - 16m → 5m

Transect 2

are hoping for!

VPRII STANDARD LOG SHEET

Cruise: RB1904

Camera setting or FOV: S1

Post processing:

Threshold & Sobel Settings: 0-136, Sobel 3, Std. 2

Calibration file: 3007011

Year/Day	UTC Time	Station/Cast #	LOG file	Notes:
5/22/19		VPR 6	05221959.Y19	
"	2247			Distances are back! 35 → 10 m
	23:05			My skin turn to black.
	23:30			Start turn to North - Transit N.
	23:42			Flickering again. Stops ~ 2 min. Bubbles - reduce Sun
5/22/19	00:00			Start heading in, USV of A18.
	00:20			On board
			05221812 (sheet)	
5/22/19	00:41:04	VPR 7	05221852.Y19	Problem w/ Deck not starting.
	1909			- Switch to UPRIT Tower. WIN7
				De: Increase Z to 75 m.
				John reset Matrix card
				offer fan
	1912			Flickering stopped after paying out 225 m wire
	2104 US	2109		* Nap VPR Towed II computer by approx 5 min.
				Stowed many computers - need to
				check time
	2130			Distances showing up 0-40m. 3985 LAT.
	2228			WIN7 machine frequently stalling when processing distance!
	2306			Distances appear to thin out. 39.890° - 70.83°
	2327			End of distance warm 20°C water.

2327  
9400 end of day

UTC

WIN7

01:08:30 01:03:25

Connected to UTC now.

\* WIN7 was 5 min, 5 sec. behind UTC.

VPR II STANDARD LOG SHEET

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Camera setting or FOV: S1

Post processing:

Threshold & Sobel Settings: 0-137, Sob 3, STD 2, 300/191

Calibration file:

Year/Day	UTC Time	Station/Cast #	LOG File	Notes:
5/23/19	10:55	VPR 8	052311008.Y19	STA A5 → north
	11:27			lots of large copepods - surface to 40m High Flow 30 → 15m.
	11:40			Paying out to 135m w/o; Fish Z = 70m
	11:54			150m w/o; 80m (Z)
	12:12			170m w/o; 85m (Z)
	12:54			Calanus nearly gone. Warmer, saltier water. Still lots of small copepods + tow cal. @ surface to 5m. SALS show noise in @ surface occasionally
	13:20			W/O = 220m, Z = 90m
	14:05			W/O = 250m, Z = 95, BTD = 255m
	14:11			Turning to EAST. End of Trawl Trawler
	15:03			Diatoms! 39,899, -70,791 30-10m
	15:18			Turn to north beginning. Trawl #2
	15:30			Amphipods @ surface
	16:00			TILT STUCK @ 100m → STALL FOR 2 min
	16:10			Stbd. servo not responding. Haul fish into repair



R.B. 1904, VPR II Summary of Log Sheets, Settings, etc.

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Cruise: RB1904  
 Camera setting or SI: Camera setting or SI  
 Post processing: Threshold & Sobel Settings: 135, 0,1,300,10,1  
 Calibration file:

Year/Day	UTC DATE	UTC Time	Station/Cast #	LOG File	Notes:
5/14/2019	1753 s	VPR1	05141745.y19		Picked up gear which moved strobe; images compromised somewhat.
	2340 e		05141745.trip		2/3 fairing stripped. Off. Strobe moved and later realigned.
5/16/2019	1836 s	VPR2	05161836.y19		A5-A18 transect; Ghost spheres prevalent.
			05161836.trip		Thresh. 139, 0,1,300,10,1.
5/17/2019	0004 e				VPR comp. time 1 hr. behind UTC (1736 vs 1836Z)
5/18/2019	2110 s	VPR3	05182113.y19		Ghost sphere still present. <i>Transect 18, A12</i>
			05182113.trip		Thresh 135,3,2,300,10,1
5/18/2019	2245 e				
5/19/2019	1510 s	VPR4	05191512.y19		Realigned strobe and camera, however ghost spheres still present. <i>E</i>
			05191512.trip		A12 start. North-South transects.
5/20/2019	0019 e				
5/21/2019	1242 s	VPR5	05211244.y19		N-S transects 'A18. Transect 48
	e 1910		05211244.trip		- stop to clean ship's strainer
5/21/2019	1940 s	VPR6	05211942.y19		<sup>A13</sup> N to S to A18. Flickering in Deck video. Restart.
	1959 s		05211959.y19		fixed loose cable.
			05211959.trip		Thresh 136, 3,2,300,10,1
5/22/2019	0020 e				
5/22/2019	1410 s	VPR7	05221812.y19		Problems with Deck not starting- switch to VPR11. Towed computer
	1852 s		05221852.y19		No triplet file. VPR11. Towed computer time 5 min, 5 sec. slower UTC
	0000 e				<i>S from A8</i>
5/23/2019	1055 s	VPR8	05231100.y19		Sta. A5-north. Transects. <i>Tran 51</i>
	1610 e		05231100.trip		Servo crashes- bring onboard
5/23/2019	1910 s	VPR9	05231917.y19		Sta. NS3, north-south transects <i>1</i>
	e 2234		05231917.trip		

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