

SHIP <i>W.F. Ricker</i>		CRUISE 88-80							TIME ZONE <i>GMT</i>			PAGE / OF		
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD-CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO-CONSEC. NO. & DEPTH (m)	MESSANGER TIME	HYDRO SALINITY NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
3 June	RI 01	4744.97 12629.22	0400	1	152 2007		#48 0220 10.60	X	10.955 32.482	1 29.163			32.482 29.163	319
4	RI 02	4737.2 12817.9		2	297.0610			X	10.146 32.456		10.53 32.35	0621		-1.38
4			\	\			449 1503 9.52				9.89 32.52		XBT	
4	RI 03	4724.51 13131.2		3	806 2006			X	9.603 32.649	2 32.602	9.99 32.53	2027		-1.39
5			\	\			#50 0306 9.66				10.07 32.55		XBT	
5			\	\			#51 1447 8.64				9.06 32.57		XBT	
5	RI 04	4706.50 13643.8		4	814 2104			X	8.617 32.702	3 32.658	9.03 32.59	2134		
6	RI 05	4706.3 13829.2		5	307 0626		#52 0308 8.92	X	8.812 32.748	4 32.706	9.07 32.59		log taken 0640	
6			\	\			#53 1556 8.38				8.75 32.59		XBT #54 no good #55 @ 2145 8.26	
6	RI 06	4651. 14129.		6	1014 1907		56 0317 8.21	X	7.907 32.730	5 32.681		1938	log taken 1913	
7	RI 07	4635.7 14546.1		7	1007 1540		57 1316 7.82	X	7.728 32.723	6 32.734			log taken 1542	
June 7			\	\			58 2217 7.96							

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SHIP <i>W.E. Ricker</i>		CRUISE <i>88-80</i>						TIME ZONE <i>GMT</i>			PAGE <i>2</i> OF			
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO - CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	BUCKET OXYGEN NO. & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
<i>8 June</i>	<i>RI 08</i>	<i>4617.54</i>	<i>8</i>	<i>1010</i>	<i>1609</i>	<i>#59</i> <i>0321</i> <i>8.27</i>	<i>*</i> <i>✓</i>	<i>3m</i>	<i>7.282</i>	<i>7</i>	<i>1638</i>	<i>CTD Cal. Sample #8</i> <i>34.173</i>		
		<i>15101.40</i>							<i>32.899</i>	<i>32.758</i>				
			<i>9</i>			<i>#60</i> <i>1342</i> <i>8.17</i>								
<i>9 June</i>	<i>RI 09</i>	<i>4553.5</i>	<i>9</i>	<i>328</i>	<i>1616</i>		<i>*</i> <i>✓</i>		<i>7.030</i>	<i>7</i>				
		<i>15618.8</i>							<i>32.835</i>					
<i>10</i>	<i>RI 10</i>	<i>4302.4</i>	<i>10</i>	<i>1006</i>	<i>1633</i>		<i>*</i> <i>✓</i>		<i>8.997</i>	<i>9</i>			<i>1641</i>	
		<i>15121.8</i>							<i>33.094</i>	<i>33.042</i>				
<i>11</i>	<i>RI 11</i>	<i>4258.6</i>	<i>11</i>	<i>1006</i>	<i>1622</i>		<i>*</i> <i>✓</i>		<i>9.417</i>	<i>10</i>	<i>1649</i>	<i>Cal. Sample 1626</i>		
		<i>15122.2</i>							<i>33.065</i>	<i>33.020</i>				
<i>11</i>	<i>RI 12</i>	<i>4203.3</i>	<i>12</i>	<i>315</i>	<i>2211</i>		<i>*</i> <i>✓</i>	<i>3m</i>	<i>10.731</i>	<i>11</i>	<i>2219</i>	<i>Cal. Sample 2216</i>		
		<i>15122.4</i>							<i>33.144</i>	<i>33.094</i>				
<i>12</i>	<i>RI 13</i>	<i>4058.3</i>	<i>13</i>	<i>307</i>	<i>0551</i>		<i>*</i> <i>✓</i>	<i>3m</i>	<i>11.653</i>	<i>12</i>				
		<i>15119.8</i>							<i>33.188</i>	<i>33.148</i>				
<i>12</i>	<i>RI 14</i>	<i>4058.9</i>	<i>14</i>	<i>1009</i>	<i>1631</i>		<i>*</i> <i>✓</i>		<i>11.454</i>	<i>13</i>			<i>1634</i>	
		<i>15122.0</i>							<i>33.190</i>	<i>33.151</i>				
<i>13</i>	<i>RI 15</i>	<i>4200.0</i>	<i>15</i>	<i>306</i>	<i>0532</i>		<i>*</i> <i>✓</i>	<i>3m</i>	<i>10.683</i>	<i>14</i>			<i>0535</i>	
		<i>15119.1</i>							<i>33.138</i>	<i>33.094</i>				
<i>13</i>	<i>RI 15</i>	<i>4152.7</i>	<i>16</i>	<i>1007</i>	<i>1623</i>		<i>*</i> <i>✓</i>		<i>10.514</i>	<i>15</i>			<i>1625</i>	
		<i>15118.3</i>							<i>33.149</i>	<i>33.102</i>				
<i>14</i>	<i>RI 14</i>	<i>4016.0</i>	<i>17</i>	<i>305</i>	<i>0632</i>		<i>*</i> <i>✓</i>		<i>12.496</i>	<i>16</i>			<i>0635</i>	
		<i>15120.1</i>							<i>33.270</i>	<i>33.236</i>				
<i>14</i>	<i>RI 14</i>	<i>4013.4</i>	<i>18</i>	<i>1010</i>	<i>1713</i>	<i>1726</i> <i>mess</i>	<i>*</i> <i>✓</i>			<i>17</i>	<i>1742</i>	<i>Cal. Sample 18</i>		
		<i>15118.5</i>								<i>33.240</i>				

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Daily Numerical Log Sheet

Institute of Ocean Sciences

Ocean Physics Division

Ship W.E. RICKER		Cruise 88-80		Time Zone UTC									Page 3 of	
date	station	Latitude Longitude	stop time	STD cons	STD time	STD depth	Hydro cons	Mass time	Hydro depth	Sal no.	Oxy no.	STD temp/sal	Time leave	Remarks
June 15	RI15	38 18.0		19	0625	308	QIC			19		14.085		loop 0628
		152 01.8								33.407		33.440		
15	RI15	38 17.5		20	1753	1010	QIC			20		13.979		loop 1755
		152 00.6								33.409		33.443		
16	RI16	34 16.9		21	1830	1006	QIC			21		18.206	1851	depart for Unwin loop 1837
		153 25.7								34.198		34.231		
27	RI17	36 28.6		22	1823	1007	QIC			22		17.690	1846	
		156 14.8								33.933		33.969		
28	RI18	38 07.8		23	0406	305	QIC			23		15.603		
		156 07.4								33.651		33.686		
28	RI19	40 07.8		24	1837	1015	QIC	1852		24		12.686	1905	Calibration Littler 25 34 292
		155 59.9								33.345		33.385		
29	RI20	41 03.3		25	0544	1011	QIC			25		12.026		Gill net #10
		155 46.2								33.235		33.276		
29	RI20	41 06.0		26	1623	306	QIC					12.023	1635	
		155 45.2										33.273		
30	RI21	42 00.0		27	0558	1006	QIC			27		11.504		Gill net #11
		155 59.8								33.288		33.332		
June 30	RI21	41 57.3		28	1905	304	QIC			33.275		11.593	1914	
		155 53.2								28		33.321		
July 1	RI22	43 01.20		29	0615	1005	QIC			33.023		10.415		Gill net #12
		156 30.32								29		33.074		
1	RI22	43 01.8		30	2050	309	QIC			33.033		10.368		
		156 29.8								30		33.085		

DAILY NUMERICAL LOG SHEET

INSTITUTE OF OCEAN SCIENCES

OCEAN PHYSICS DIVISION

Ship W.E. RICKER		Cruise 88-80		Time Zone UTC									Page 4 of	
date	station	Latitude Longitude	stop time	STD cons	STD time	STD depth	Hydro cons	Mess time	Hydro depth	Sal no.	Oxy no.	STD temp salinity	Time leave	Remarks
July 2	RI23	43 59.3		31	0606	1002	PIC			31		9.715		
		155 59.1					kkxx			32.917		32.961		
2	RI23	44 00.3		32	1947	300	PIC			32		9.683		Cal Sample #33 33.888
		155 56.7								32.934		32.977		
3	RI24	45 00.6		33	0435	1016	PIC			34		8.954		Cal Sample #35 34.330
		155 59.7								32.858		32.903		
3	RI24	45 01.9		34	1611	310	PIC			32.838		8.886		
		155 56.0								36		32.890		
4	RI25	46 00.1		35	0435	1006	PIC			37		8.716		no mixed layer 2 m from
		156 00.0								32.753		32.794		
4	RI25	45 59.7		36	1644	303	PIC			38		8.599		
		155 58.8					kkxx			32.752		32.801		
5	RI26	45 25.7		37	0442	2016	PIC			39		9.490		
		153 14.9					—			32.812		32.864	0628	
5	RI27	45 06.2		38	1620	1005	PIC			40		9.879		
		151 22.6					kkxx			32.862		32.902	1640	
6	RI28	44 59.9		39	0433	1004	PIC					10.149		
		148 24.7					kkxx					32.826	0454	
6	RI29	44 59.6		40	1551	1007	PIC			32.726		10.253		
		146 27.6					kkxx			41		32.777		
7	RI30	44 59.8		41	0137	1009	PIC			32.760		10.915		
		144 01.50	0435				kkxx			42		32.808	0156	
	RI31	45 00.0		42	0617	1008	PIC			32.769		10.948		
		143 00.0					kkxx			43		32.807	0639	

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Ship W.E. RICKER		Cruise 88-80		Time Zone UTC									Page 5 of	
date	station	Latitude Longitude	stop time	STD cons	STD time	STD depth	Hydro cons	Mess time	Hydro depth	Sal no.	Oxy no.	STD temp salinity	Time leave	Remarks
July 7	RI32	45 00.0					QIC					10.584	1538	
		141 59.7		43	1515	1006	KKXX					32.730		
7	RI33	45 11.7					QIC			44		10.836	2118	
		141 00.0	1153	44	2057	1009	KKXX			32.659		32.703		
8	RI34	45 25.66					QIC					11.151	0155	
		139 59.98	0125	45	0130	1005	KKXX					32.696		
8	RI35	45 34.8					QIC			32.636		11.210	1438	#19
		138 11.2	1413	46	1418	1002	KKXX			45		32.673		
8	RI36	45 30.6					QIC	KKXX		46		11.397	2025	Cal Sample #47
		136 51.4	1955	47	1958	1010	947			32.617		32.658		34.318
8	RI37	45 56.4					QIC			48		11.582	0107	
		135 59.98	2345	48	2346	1005	KKXX			32.645		32.683		
9	RI38	46 04.5					QIC					11.679	0445	
		135 00.0	0425	49	0426	1007	✓					32.688		
9	RI39	46 13.7					QIC			32.583		11.800	12:05	
		134 00.1		50	1144	1006	✓			49		32.655		
9	RI40	46 23.1					QIC			32.645		12.389	1806	
		133 00.0	1741	51	1745	1010	✓			50		32.677		
9	RI41	46 32.2										12.559	2233	
		132 00.0	1705	52	2210	1007	—					32.631		
10	RI42	46 43.6								51		12.708	0306	
		130 59.9	0241	53	0245	1005	✓			32.562		32.600		
10	RI43	46 45.6										12.844	0600	Cal
		130 50.9	0550	54	0553	141	—		145m			32.629		Seamount

145 m

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Ship W.E. RICKER		Cruise 88-80		Time Zone UTC									Page 6 of	
date	station	Latitude Longitude	stop time	STD cons	STD time	STD depth	Hydro cons	Mass time	Hydro depth	Sal no.	Oxy no.	STD temp salinity	Time leave	Remarks
10/7/88	RI44	4649.4 N	0930	55	0933	1006m	✓		m	52		12.936	0952	
		130.30 W								32.588		32.622		
10/7/88	RI45	4658.3 N	1210	56	1211	1010m	✓			53		13.218	1227	
		130.00.1 W								32.601		32.636		
July 10	RI46	4707.8	1453	57	1456	1003	✓			32.562		13.455	1516	2650
		12930.0								54		32.598		
10	RI47	4716.1	1732	58	1736	1006	✓					13.812	1758	1450 fms
		12900.0										32.530		
10	RI48	4724.6 N	2008	59	2010	1010	✓			32.463		13.973	2030	
		12829.99								55		32.496		
10	RI49	4732.9	2233	60	2241	2009	960			56		14.559	2342	Cal Temp = 57 34.582
		12800.0								32.479		32.515		
11	RI50	4741.7	0153	61	0156	1006	LXXX					14.738	0219	
		12730.0										32.484		
11	RI51	4750.4	0432	62	0434	1004	✓			58		14.671	0456	
		12700.0								32.452		32.484		
11	RI52	4758.3 N	0700	63	0706	1008	✓			59		14.761	0731	
		12630.0 W								32.225		32.253		
11	RI53	4806.8 N	0935	64	0940	900	✓			32.000		14.625	0958	1000m
		12600.1 W								60		32.020		
11	RI54	4815.20 N	1210	65	1215	120m	✓			31.440		14.010	1222	132m
		12539.00								61		31.472		
July 11	RI55	4823.8	1436	66	1441	295	✓			32.401		9.949	1449	294m
		12500.0								62		32.482		

1050 fms

