

DAILY LOG BOOK

MISSION
NUMBER

2005-32

DATE:

From: Nov 28 to: Dec 2

VESSEL:

Vector

PROJECT:

JdF / SOG

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: _____ First Officer: _____
 Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: DEO / IOS

Scientific Personnel:	Party Chief:	Diane Masson
Name	Watch	Cabin

[illegible][illegible]

Data logging computer: F503 (Shuttle Case)
 Data acquisition program: Ver 5.34
 CTD deck unit make: Sea bird model: 11 plus serial number: 0508
 Primary CTD

Make: Seabird model: 911 plus serial number: 0443
 Primary temperature serial number: 2968
 Primary conductivity serial number: 1766
 Secondary temperature serial number: 2106
 Secondary conductivity serial number: 1729
 Transmissometer: Wetlabs Model: CSTAR s/n: 498 DR
 Fluorometer: Model Seapoint Cable gain: 10 X s/n: 2356 P, ☒ S or NO pump?
 Oxygen sensor: Underwater Model: QSP2300 s/n: 0017 P, ☒ S or NO pump?
 PAR sensor: Underwater Model: 4656 s/n: 1024 P, ☒ S or NO pump?
 Other sensors: Benthos Altimeter s/n: 16504 P, ☒ S or NO pump?
 Other sensors: Ref PAR s/n: 16504 P, ☒ S or NO pump?
 Other sensors: s/n: P, ☒ S or NO pump?
 Other sensors: s/n: P, ☒ S or NO pump?

Secondary CTD

Make: Seabird model: 911 plus serial number: 0585

Primary temperature serial number: 4484

Primary conductivity serial number: 3038

Secondary temperature serial number: 2710

Secondary conductivity serial number: 2102

Transmissometer: Wet labs Model: CSTAR s/n: 333DR

Fluorometer: Model Seapoint Cable gain: 10X s/n: 2229 P, S or NO pump?

Oxygen sensor: Seabird Model: SBE 43 s/n: 0047 P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

CTD calibration bottle location (height above CTD in metres):

*CTD files remained as 2 to match rosette log 'G. Gation.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>Nov</u>				Year <u>2005</u>			Ship <u>Vector</u>				Cruise ID <u>2005-32</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<u>28</u>	<u>SI</u>		<u>BE</u>	<u>ROS</u>		<u>1</u>	<u>→ not done</u>								<u>NOT done</u>
			<u>BO</u>				<u>STN 59 WAS DONE AS EVENT # 1, BOTTLE DATA</u>								
			<u>EN</u>				<u>FROM 59 WOULD BE EVENT 2</u>								
<u>28</u>	<u>59</u>	<u>2201</u>	<u>BE</u>	<u>ROS</u>		<u>1*</u>	<u>48 37 782</u>	<u>123 14 533</u>	<u>227</u>	<u>237</u>	<u>3-15</u>	<u>13</u>	<u>DT/MD</u>	<u>✓</u>	<u>Changed pressure offset →</u>
		<u>2208</u>	<u>BO</u>				<u>48 37 763</u>	<u>123 14 468</u>							
		<u>2222</u>	<u>EN</u>				<u>48 37 697</u>	<u>123 14 365</u>							
	<u>58</u>	<u>2312</u>	<u>BE</u>	<u>CTD</u>		<u>3</u>	<u>48 42 955</u>	<u>123 14 22</u>	<u>327</u>	<u>317</u>					
		<u>2319</u>	<u>BO</u>				<u>48 42 901</u>	<u>123 14 149</u>							
		<u>2326</u>	<u>EN</u>				<u>48 42 865</u>	<u>123 14 087</u>							
<u>29</u>	<u>57</u>	<u>00:07</u>	<u>BE</u>	<u>CTD</u>		<u>4</u>	<u>48 43 963</u>	<u>123 8 196</u>	<u>141</u>				<u>LB/SFM</u>		
		<u>00 12</u>	<u>BO</u>				<u>48 43 948</u>	<u>123 8 143</u>		<u>161</u>					
		<u>00 16</u>	<u>EN</u>				<u>48 4 3945</u>	<u>123 8 070</u>							<u>5.5m off bottom</u>
<u>29</u>	<u>56</u>	<u>1 07</u>	<u>BE</u>	<u>ROS</u>		<u>5</u>	<u>48 46 315</u>	<u>123 1 638</u>	<u>214</u>		<u>16-28</u>		<u>H/SN</u>		
		<u>1 13</u>	<u>BO</u>				<u>48 46 295</u>	<u>123 1 746</u>		<u>212</u>			<u>ONE DIRECTION REVERSAL ON THE WAY UP TO GET MISSING BOTTLE</u>		<u>7.0m off bottom</u>
		<u>1 24</u>	<u>EN</u>				<u>48 46 319</u>	<u>123 1 882</u>			<u>212</u>				<u>Lizette too chicken to go the full depth</u>
<u>29</u>	<u>51</u>	<u>2 35</u>	<u>BE</u>	<u>CTD</u>		<u>6</u>	<u>48 46 556</u>	<u>122 51 583</u>	<u>154</u>				<u>H/SN</u>		
		<u>2 40</u>	<u>BO</u>				<u>48 46 576</u>	<u>122 51 582</u>		<u>150</u>					
		<u>2 45</u>	<u>EN</u>				<u>48 46 393</u>	<u>122 51 563</u>							

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up/stop
UN = up/no stop
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time

MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Change pressure offset in 0443ctd.con after cast #2

OLD: 3.045

NEW: 3.545

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>NOV</i>				Year <i>2005</i>			Ship <i>Vectra</i>			Cruise ID <i>2005-32</i>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
29	52	3:56	BE	CTD		7	48 38 870	122 43 129	78						
		3:59	BO				48 38 869	122 43 133		75					
		4:01	EN				48 38 874	122 43 138							
	53	4:47	BE	CTD		8	48 33.153	122 44.900	55						
		4:49	BO				48 33.145	122 44.898		54					
		4:51	EN				48 33.136	122 44.908							
	54	5:42	BE	CTD		9	48 26.512	122 44.315	78						
		5:45	BO				48 26.498	122 44.326		78					
		5:47	EN				48 26.447	122 44.336							
	63	8:02	BE	CTD		10	48 14.56	122 58.520	155	145			DT MD	✓	
		08:06	BO				48 14 54	122 58 44							
		08:09	EN				48 14 532	122 58 369							
29	62	0922	BE	ROS		11	48 22 914	123 02 467	146	145			DT MD	✓	
		0927	BO				48 22 96	123 02 509							
		0935	EN				48 22 958	123 02 504							
29	67	1116	BE	CTD		12	48 22 838	123 18 118	103	100					
		1118	BO				48 22 824	123 18 080							
		1120	EN				48 22 810	123 18 055							

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							Latitude	Longitude							
29	66	1154	BE	CTD		13	48 19 302	123 13 998	101						
		1157	BO				48 19 298	123 13 962							
		1159	EN				48 19 303	123 13 960							
29	65	1235	BE	ROS		14	48 15 894	123 9 866	128		39-47	9	JP/R		
		1239	PO				48 15 893	123 9 883		122					
		1243	EN				48 15 884	123 9 883							
29	64	1319	BE	CTD		15	48 12 835	123 5 802	108						✓
		1323	BO				48 12 847	123 5 822		108					
		1325	EN				48 12 869	123 5 820							
29	105	1424	BE	CTD		16	48 10 978	123 19 062	85						
		1429	BO				48 10 954	123 19 141		82					
		1431	EN				48 10 948	123 19 151							
29	ADCP	1501	BE	ROS		17	48 14 087	123 18 090	119		48-56	9	1/1		
		1504	BO				48 14 096	123 18 180		115					
		1509	EN				48 14 088	123 18 312							
29	104	1551	BE	CTD		18	48 20 005	123 18 013	85						
		1554	BO				48 20 017	123 18 067							
		1556	EN				48 20 029	123 18 109							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2005</i>			Ship <i>Vector</i>				Cruise ID <i>20</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
29	103	2240	BE	CTD		19	48 32 999	124 43 097	120	118			MD DT	✓	
		2244	BO				48 33 062	124 43 126							
		2247	EN				48 32 998	124 43 164							
29	102	2316	BE	ROS		20	48 29 996	124 43 993	254		57-70	14	DT MD	✓	
		2322	BO				48 29 983	124 44 024							
		2334	EN				48 29 966	124 44 068							
30	101	0014	BE	CTD		21	48 25 398	124 45 496	215				1/3 SN	✓	
		0018	BO				48 25 411	124 45 703		175					
		0022	EN				48 25 429	124 45 830							
30	74	134	BE	CTD		22	48 25 111	124 35 135	178				1/3 SN		
		140	BO				48 25 172	124 36 170		178					
		145	EN				48 25 237	124 36 479							
30	75	227	BE	ROS		23	48 28 236	124 33 092	221						
		233	BO				48 28 314	124 33 377		222	71-83	13	1/3 SN	✓	#9 didn't fire
		240	EN				48 28 442	124 33 689							
30	76	319	BE	CTD		24	48 31 451	124 30 096	86				1/3 SN		
		321	BO				48 31 453	124 30 146		80					
		323	EN				48 31 465	124 30 178							

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30	71	5:59	BE	CTD		25	48 22.132	123 59.50	110						
		6:01	BO				48 22.10	123 59.423		107					
		6:05	EN				48 22.092	123 59.442							
	72	6:41	BE	ROS		26	48 18.581	124 3.934	190		84-95	12			
		6:46	BO				48 18.535	124 3.860		185					
		6:53	EN				48 18.438	124 3.745							
	73	7:27	BE	CTD		27	48 14.970	124 6.670	164						
		7:31	BO				48 14.978	124 6.624		160					
		7:35	EN				48 14.915	124 6.592							
	68	9:11	BE	CTD		28	48 12 239	123 42 884	139				DT MD	✓	
		9:15	BO				48 12 262	123 42 794		138					
		9:18	EN				48 12 278	123 42 720							
	69	9:45	BE	ROS		29	48 15 586	123 43 163	177		96-107	12	DT MD		
	69	9:50	BO				48 15 550	123 43 092		176					
		09:57	EN				48 15 514	123 42 888					DT MD		
	70	10:28	BE	CTD		30	48 19 178	123 43 158	151						
		10:32	BO				48 19 140	123 43 004		151					
		10:34	EN				48 19 121	123 42 931							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>NOVEMBER</i>				Year <i>2005</i>			Ship <i>Vectra</i>				Cruise ID <i>2005-32</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
30	61	13:22	BE	CTD		31	48 29.184	123 9 323	284				W/SA	✓	8.59° 31.97
		13:29	BO				48 29.152	123 9 414		274					273m 5mab
		13:34	EN				48 29.126	123 9 598							
30	60	14:09	BE	CTD	-	32	48 33.979	123 12.794	286						DEEP WATER INTRUSION NOTED
		14:16	BO				48 34.015	123 12.824		287					@280m 8.56° 32.21psu
		14:26	EN				48 34.024	123 12.853							much more apparent
	47	17:11	BE	CTD		33	48 49.308	123 6.179	185						at 60 than 61
		17:15	BO				48 49.312	123 6.090		182					
		17:19	EN				48 49.307	123 6.035							
	48	17:43	BE	CTD		34	48 51.714	123 3.286	230						
		17:48	BO				48 51.686	123 3.466		222					
		17:52	EN				48 51.665	123 3.588							
	49	18:26	BE	CTD		35	48 55.02	122 59.626	134						
		18:29	BO				48 55.032	122 59.598		126					
		18:31	EN				48 55.042	122 59.560							
30	50	19:00	BE	CTD		36	48 57.725	122 56.080	25						
		19:01	BO				48 57.738	122 56.096		24					
		19:02	EN				48 57.743	122 56.106							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
30	44	1951	BE	CTD		37	48 57 880	123 05 954	124				DT MD	✓	
		1954	BO				48 56 893	123 06 013		121					
		1956	EN				48 56 885	123 06 040							
30	45	2024	BE	CTD		38	48 53 908	123 08 395	127				DT MD	✓	
		2027	BO				48 53 941	123 08 387		124					
		2030	EN				48 53 976	123 08 382							
30	46	2055	BE	ROS		39	48 51 398	123 10 741	177		108-118	11	DT MD	✓	
		2059	BO				48 51 377	123 10 658		174					
		2105	EN				48 51 382	123 10 588							
30	43	2243	BE	CTD		40	49 00 198	123 30 182	191				DT MD	✓	
		2248	BO				49 00 262	123 30 251		186					
		2253	EN				49 00 331	123 30 340			110-133	15			
30	42	2319	BE	ROS		41	49 01 805	123 26 208	320		119-133	15	DT MD	✓	
		2326	BO				49 01 823	123 26 208		315					
		2336	EN				49 01 849	123 26 216							
Dec	41	00:03	BE	CTD		42	49 3 284	123 22 268	240				PH/GM	✓	4m off bottom gray day - flat
		00:10	BO				49 3 278	123 22 271		240					
		00:15	EN				49 3 283	123 22 255							

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Daily_log_book.doc

* Should be 48 56.88 6 Gafien.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship				Cruise ID				
December				2005			Vulcan				2005-32				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
1	37	1:31	BE	CTD		43	49 13 613	123 20 708	214				MS	✓	
		1:37	BO				49 13 594	123 20 710		210					
		1:42	EN				49 13 594	123 20 724							
1	38	2:12	BE	CTD		44	49 11 953	123 26 318	303				MS	✓	
		2:20	BO				49 11 930	123 26 298		295					
		2:26	EN				49 11 912	123 26 320							
1	39	3:03	BE	ROS		45	49 9 822	123 32 941	375	371	134-149	16	MS	✓	4.0m OFF BOTTOM
		3:12	BO				49 9 865	123 32 946							cold bot calm
		3:24	EN				49 9 906	123 33 068							when setting the pylon "cables" some
1	40	4:01	BE	LTD		46	49 8.624	123 36.872	146				MS		took a while to
		4:05	BO				49 8.666	123 36.916		132					catch. This could
		4:09	EN				49 8.689	123 36.931							mean there could be
	26	5:48	BE	CTD		47	49 14.311	123 50.834	255						some tripped bottles
		5:54	BO				49 14.339	123 50.788		251					on event 45
		6:01	EN				49 14.351	123 50.822							
1	27	6:52	BE	ROS		48	49 19.120	123 48.032	342		150-164	15			
		7:00	BO				49 19.139	123 48.150		338					
		7:13	EN				49 19.130	123 48.231							

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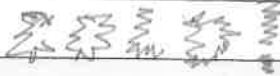
MR = messenger release time
 RE = recover mooring time

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Month				Year		Ship		Cruise ID							
December				2005		Vector		2005-32							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
1	28	7:51	BE	CTD		49	49 24.110	123 45-30132							
		7:55	BO				49 24.113	123 45.325		125					
		7:57	EN				49 24.100	123 45.305							
1	25	932	BE	CTD		50	49 27 104	124 07 556	288						
		940	BO				49 27 697	124 07 642		304					
		944	EN				49 27 686	124 07 662							
1	02	1014	BE	ROS		51	49 24 067	124 09 347	278						
		1020	BO				49 24 031	124 09 392		276					
		1027	EN				49 24 000	124 09 479							
01	01	1057	BE	CTD		52	49 20 387	124 12 050	252						
		1103	BO				49 20 470	124 12 133		250					
		1107	EN				49 20 504	124 12 191							
01	04	1155	BE	CTD		53	49 24 496	124 22 128	341				TH SH	✓	5m OFF Bottom
		1202	BO				49 24 541	124 22 154		346				✓	
		1207	EN				49 24 602	124 22 153						✓	
01	03	1227	BE	ROS		54	49 26 600	124 20 178	322		179-193	15	SM/LB	✓	
		1234	BO				49 26 656	124 20 194		318					
		1243	EN				49 26 794	124 20 268							

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DAILY LOG



Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>December</u>		Year <u>2005</u>		Ship <u>VECTOR</u>		Cruise ID <u>2005-32</u>									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
1	05	1329	BE	CTD		55	49 27.349	124 30.769	315				MM		
		1337	BO				49 27.360	124 30.716		313					
		1342	EN				49 27.367	124 30.692							
1	06	1410	BE	ROS		56	49 30.629	124 27.722	195		194-205	12	MM	✓	
		1415	BO				49 30.642	124 27.767		191					
		1421	EN				49 30.638	124 27.697							
1	07	1503	BE	CTD		57	49 34.420	124 24.254	352				MM		*file named
		1510	BO				49 34.392	124 24.312		349					(58) by mistake, *
		1516	EN				49 34.380	124 24.349							
	08	16:09	BE	CTD		58	49 39.280	124 33.030	340						*therefore, consec 58
		16:15	BO				49 39.205	124 33.038		332					was named (58b) *
		16:21	EN				49 39.185	124 33.041							
	09	16:53	BE	ROS		59	49 35.490	124 38.389	170		206-216	11			
		16:58	BO				49 35.447	124 38.414		164					
		17:04	EN				49 35.375	124 38.454							
	10	17:56	BE	CTD		60	49 40.741	124 47.368	95						
		17:59	BO				49 40.788	124 47.381		93					
		18:01	EN				49 40.811	124 47.396							

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December				2005			Vector			2005-32					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
1	11	18:35	BE	CTD		61	49 42.390	124 43.463	300						
		18:41	BO				49 42.354	124 43.468		295					
		18:45	EN				49 42.324	124 43.462							
	12	19:03	BE	ROS		62	49 43.609	124 40.783	358						
		19:10	BO				49 43.571	124 40.675		350					
		19:20	EN				49 43.501	124 40.553							
	13	2057	BE	CTD		63	49 55 32	124 55 13	238						
		2105	BO				49 55 325	124 55 242		235			DT MD	✓	
		2110	EN				49 55 342	124 55 264							
01	14	2136	BE	ROS		64	49 52 986	124 59 668	314						
		2143	BO				49 53 056	124 59 752		310	233-247	15	DT MD	✓	
		2154	EN				49 53 167	124 59 868							
01	15	2213	BE			65	49 51 528	125 01 578	124						
		2216	BO				49 51 481	125 01 541		123					
		2220	EN				49 51 458	125 01 511							
01	21	2358	BE			66	50 02 00	125 13 591	77						
02		0000	BO				50 02 003	125 13 578		73					
		0002	EN				50 01 999	125 13 570							

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December			2005		Vektor			2005-32							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
2	16	00:39	BE	ROS		67	49 57 714	125 8 783	156		248-257	10	TSN	✓	
		00 44	BO				49 57 743	125 8 680		151					
		00 50	EN				49 57 703	125 8 569							
2	17	1 13	BE	CTD		68	49 58 811	125 4 345	265				TSN	✓	
		1 20	BO				49 58 814	125 04 403		263					
		1 26	EN				49 58 812	125 04 432							
2	18	1 56	BE	CTD		69	49 59 166	124 58 844	145				TSN		Flat calm,
		2 00	BO				49 59 142	124 58 832		143					dark too, went
		2 03	EN				49 59 118	124 58 840							through two bottles
2	19	2 48	BE	CTD	248	70	50 1 198	124 52 836	276				TSN		of lens cleaner.
		2 46	BO				50 1 182	124 52 823		268					2.3 from bottom
		2 53	EN				50 1 159	124 52 834							
	20	4:59	BE	CTD		71	49 47.249	124 32.315	305						
		5:05	BO				49 47.231	124 32.323		301					
		5:12	EN				49 47.232	124 32.327							
	22	6:34	BE	CTD		72	49 40.165	124 16.307	353						
		6:43	BO				49 40.162	124 16.330		345					
		6:50	EN				49 40.152	124 16.334							

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[illegible]

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