

DAILY LOG BOOK

MISSION
NUMBER

2007-26

DATE:

From:

April 2 '07

to:

April 7 '07

VESSEL:

Vector

PROJECT:

SoG - JdF

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

Captain: Don Hardy First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: LOS

Scientific Personnel:

Name	Watch	Cabin	Party Chief:
			Diane Mason

[illegible][illegible]

Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	Model:	s/n:	
Fluorometer: Model	Cable gain:	s/n:	P, S or NO pump?
Oxygen sensor:	Model:	s/n:	P, S or NO pump?
PAR sensor:	Model:	s/n:	
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	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: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	Model: _____	s/n: _____	
Fluorometer: Model _____	Cable gain: _____	s/n: _____	P, S or NO pump?
Oxygen sensor: _____	Model: _____	s/n: _____	P, S or NO pump?
PAR sensor: _____	Model: _____	s/n: _____	
Other sensors: _____		s/n: _____	P, S or NO pump?
Other sensors: _____		s/n: _____	P, S or NO pump?
Other sensors: _____		s/n: _____	P, S or NO pump?
Other sensors: _____		s/n: _____	P, S or NO pump?

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month April				Year 2007			Ship Vector				Cruise ID 2007-26				
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	SI	19:41	BE	ROS	UN	1	48°39.180'N	123°29.948W	175	173	1-4	4	ST		Stopped early - no oxygen
		19:46	BO		(for all casts)		48°39.170'N	123°29.950		173					
		19:51	EN				48°39.173'	123°29.952'							
2	59	21:40	BE	ROS		2	48°37.81	123°14.54	229		5-18	14	AB ST	✓	
		21:46	BO				48°37.83	123°14.52		225					
		21:54	EN				48°37.87	123°14.55							
2	60	22:28	BE	CTD		3	48°33.91	123°12.78	288				ST.	✓	
		22:34	BO				48°33.91	123°12.77		280					
		22:40	EN				48°34.01	123°12.811							
2	61	23:31	BE	CTD ROS		4	48 29 21	123 09 51	281						
		23:38	BO				48 29 25	123 09 56		265	-	8	DA/HJ	✓	
		23:44	EN				48 29 25	123 09 69							
2	67	00:55	BE	ROS		5	48 22.823	123° 18.062	105						
		00:57	BO				48 22.883	123° 18.044			-	8	DA/HJ	✓	SUNNY. But chilly
		00:59	EN				48 22.898	123° 18.016							
3	101	07:41	BE	CTD		6	48 25.399	124 45.136	236		19-38	20	ST.	✓	BEAUTIFUL NIGHT
		07:48	BO				48 25.401	124 45.12'		230					AT CAPE FLATTERY...
		07:53	EN				48 25.420	124 45.14							FOR A CHANGE!

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
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DE = deployment time

MR = messenger release time
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>APRIL</i>				Year <i>2007</i>			Ship <i>VECTOR</i>				Cruise ID <i>2007-26</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							
3	102	0830	BE	ROS		7	48° 29.96	124° 44.00	257		39-1938	20	STS	✓	
		0838	BO				48° 29.97	124° 44.04		250			↓		
		0847	EN				48° 29.30.00	124° 44.03							
	103	0929	BE	CTD		8	48° 32.99	124° 42.99	125-135					✓	
		0933	BO				48° 32.99	124° 42.99		115					
		0936	EN				48° 32.98	124° 42.99							flushed pylon
	76	1033	BE	CTD		9	48° 31.35	124° 29.90		89					
		1036	BO				48° 31.35	124° 29.91	80						
		1037	EN				48° 31.36	124° 29.93							
3	75	1117	BE	ROS		10	48° 28.15	124° 32.85	227		39-52		DA 45		
		1124	BO				48° 28.16	124° 32.81		217				✓	
		1138	EN				48° 28.21	124° 32.75							
	74	1207	BE	ROS		11	48° 25.09	124° 35.62	190						
		1213	BO				48° 25.09	124° 35.63		180	-	0	DA 45	✓	
		1217	EN				48° 25.10	124° 35.64							
3	73	1442	BE	ROS		12	48° 15.02	124° 06.71	160						
		1446	BO				48° 15.01	124° 06.71			-	0	DA 45	✓	
		1449	EN				48° 15.01	124° 06.71							

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							Latitude	Longitude							
3	72	15:24	BE	ROS		13	48° 18.619	124° 4.009	186		53-65	13	MF	MF	
		1528	BO				48° 18.626	124° 4.015		184					
		1536	EN				48° 18.588	124° 4.034							
3	71	16:21	BE	CTD		14	48° 22.244	123° 59.479	107				MF	MF	
		1623	BO				48° 22.211	123° 59.568		100					
		1625	EN				48° 22.226	123° 59.628							
3	70	17:49	BE	CTD		15	48° 19.211	123° 43.240	150						
		17:53	BO				48° 19.231	123° 43.246		147					
		17:57	EN				48° 19.240	123° 43.234							
3	69	18:28	BE	ROS		16	48° 15.64	123° 43.395	177		66-77	12			
		18:32	BO				48° 15.6	123° 43.51		170					
		18:40	EN				48° 15.595	123° 43.534							
	68	19:13	BE	CTD		17	48° 12.25	123° 43.34	136				ST	✓	
		19:18	BO				48° 12.33	123° 43.34		130			↓		
		19:20	EN				48° 12.38	123° 43.44							
3	105	21:15	BE	CTD		18	48° 10.95	123° 19.03	82					✓	
		21:17	BO				48° 10.95	123° 19.01		75					
		21:19	EN				48° 10.95	123° 19.00							

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							Latitude	Longitude							
3	ADCP	2147	BE	ROS		19	48°14.04	123°17.94	120		78-87	10	ST	✓	
		2149	BO				48°14.00	123°17.81		110					
			EN												
3	104	2238	BE	CTD		20	48°20.04	123°17.92	81					✓	pylon flushed.
		2240	BO				48°20.01	123°17.91		75					
		2243	EN				48°20.00	123°17.87							
3	66	2301	BE	CTD		21	48°19.27	123°14.04	100						
		2305	BO				48°19.28	123°13.99		95	—	0	DA/HJ	✓	
		2308	EN				48°19.25	123°13.89							
3	65	2338	BE	ROS		22	48°15.90	123°09.77	125		88-97				
		2341	BO				48°15.89	123°09.67		115		10	DA/HJ	✓	
		2349	EN				48°15.84	123°09.45							
4	64	0021	BE	CTD		23	48°12.82	123°05.76	108						
		0024	BO				48°12.81	123°05.76		103	—	0	DA/HJ	✓	
		0027	EN				48°12.81	123°05.76							
4	63	0102	BE	CTD		24	48°14.55	122°58.50	157						
		0106	BO				48°14.55	122°58.48		145	—	0	DA/HJ	✓	Pylon-flushed
		0110	EN				48°14.54	122°58.45							

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Month March				Year 2007			Ship Vector				Cruise ID 2007-26				
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							
4	62	0238	BE	ROS		25	48 22 79	123 02 52	147						
		0242	BO				48 22 79	123 02 49		140	98-108	11	DA, HS	✓	
		0250	EN				48 22 82	123 02 37							
4	54	5:10	BE	CTD		26	48°26.587	122°44.317	77				DM at		
		5:13	BO				48°26.596	122°44.399		70					
		5:15	EN				48°26.60	122°44.292							
	53	6:07	BE	CTD		27	48°33.103	122°44.873	55						
		6:09	BO				48°33.086	122°44.862		50					
		6:10	EN				48°33.03	122°44.856					ST + AB		
4	52	7:07	BE	CTD		28	48°38.88	122°43.313	83				↓	✓	
		7:09	BO				48°38.887	122°43.308		75					
		7:11	EN				48°38.886	122°43.290							
4	51	8:25	BE	CTD		29	48°46.682	122°51.611	160				ST + AB	✓	
		8:28	BO				48°46.686	122°51.666		150					
		8:31	EN				48°46.705	122°51.698							
4	56	9:30	BE	ROS		30	48°46.390	123°01.568	214				ST + AB	✓	
		9:33	BO				48°46.412	123°01.574		200	109-122	14			
		9:40	EN				48°46.448	123°01.542							flushed pylon

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Month				Year			Ship				Cruise ID				
APRIL				2007			VECTOR				2007-26				
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							
4	57	1017	BE	CTD		31	48°43.97	123°08.12	168		-		ST/AB	✓	
		1020	BO				48°43.98	123°08.11		150					
		1022	EN				48°43.99	123°08.11							
4	58	1056	BE	CTD		32	48 42 97	123 14 32	332						
		1102	BO				48 43 01	123 14 28		330	0	0	DA, HJ		
		1107	EN				48 43 03	123 14 27						✓	
4	47	1245	BE	CTD		33	48 49 28	123 06 24	182						
		1249	BO				48 49 29	123 06 18			0	0	DA, HJ	✓	
		1252	EN				48 49 30	123 06 17							
4	48	1315	BE	CTD		34	48 51 68	123 03 22	227						
		1320	BO				48 51 69	123 03 26		222	0	0	DA, HJ	✓	
		1324	EN				48 51 70	123 03 26							
4	49	1354	BE	CTD		35	48 55 01	122 59 60	132		0	0			
		1357	BO				48 55 02	122 59 60		125					
		1400	EN				48 55 00	122 59 62							
4	50	1427	BE	CTD		36	48 57 70	122 56 08	26						
		1430	BO				48 57 70	122 56 07		25	0	0	DA, HJ	✓	
		1431	EN				48 57 70	122 56 06							

Cast type:

UW = sea water loop

bottle firing method:

TX = Gun

Cast type:

BOT = bottle cast, no CTD
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Month <i>April</i>				Year <i>2007</i>			Ship <i>Vector</i>				Cruise ID <i>2007-26</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								
<i>4</i>	<i>44</i>	<i>15:16</i>	<i>BE</i>	<i>CTD</i>		<i>37</i>	<i>48° 56.78</i>	<i>123° 5.99</i>	<i>120</i>				<i>mf DG</i>	<i>mf</i>		
		<i>15:18</i>	<i>BO</i>				<i>48° 56.75</i>	<i>123° 5.97</i>		<i>115</i>						
		<i>15:21</i>	<i>EN</i>				<i>48° 56.76</i>	<i>123° 5.96</i>								
<i>4</i>	<i>45</i>	<i>15:50</i>	<i>BE</i>	<i>CTD</i>		<i>38</i>	<i>48° 53.914</i>	<i>123° 8.359</i>	<i>128</i>				<i>mf DG</i>	<i>mf</i>	<i>high fluorometer values near the surface.</i>	
		<i>15:53</i>	<i>BO</i>				<i>48° 53.91</i>	<i>123° 8.345</i>		<i>120</i>						
		<i>15:55</i>	<i>EN</i>				<i>48° 53.90</i>	<i>123° 8.341</i>								
<i>4</i>	<i>46</i>	<i>16:17</i>	<i>BE</i>	<i>ROS</i>		<i>39</i>	<i>48° 51.388</i>	<i>123° 10.835</i>	<i>180</i>		<i>123-134</i>	<i>12</i>				
		<i>16:20</i>	<i>BO</i>				<i>48° 51.385</i>	<i>123° 10.825</i>		<i>175</i>						
		<i>16:26</i>	<i>EN</i>				<i>48° 51.403</i>	<i>123° 10.786</i>								
	<i>43</i>	<i>18:06</i>	<i>BE</i>	<i>CTD</i>		<i>40</i>	<i>49 0.178</i>	<i>123 30.066</i>	<i>195</i>							
		<i>18:09</i>	<i>BO</i>				<i>49 0.181</i>	<i>123 30.076</i>		<i>190</i>						
		<i>18:12</i>	<i>EN</i>				<i>49 0.187</i>	<i>123 30.077</i>								
	<i>42</i>	<i>18:36</i>	<i>BE</i>	<i>ROS</i>		<i>41</i>	<i>49 1.789</i>	<i>123 26.198</i>	<i>318</i>		<i>135-150</i>					
		<i>18:41</i>	<i>BO</i>				<i>49 1.795</i>	<i>123 26.215</i>		<i>315</i>						
		<i>18:52</i>	<i>EN</i>				<i>49 1.740</i>	<i>123 26.246</i>								
	<i>41</i>	<i>19:18</i>	<i>BE</i>	<i>CTD</i>		<i>42</i>	<i>49° 03.27</i>	<i>123° 22.41</i>	<i>243</i>				<i>ST/AB</i>	<i>✓</i>		
		<i>19:23</i>	<i>BO</i>				<i>49° 03.19</i>	<i>123° 22.49</i>		<i>240</i>						
		<i>19:28</i>	<i>EN</i>				<i>49° 03.16</i>	<i>123° 22.50</i>								

Cast type:

BOT = bottle cast, no CTD
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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2007</i>			Ship <i>Vectra</i>				Cruise ID <i>2007-26</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
4	37	2117	BE	CTD		43	49° 13.58	123° 20.67	210				ST		
		2121	BO				49° 13.59	123° 20.65		200					
		2125	EN				49° 13.59	123° 20.64							
4	38	2157	BE	CTD		44	49° 11.986	123° 26.382	305					✓	
		2203	BO				49° 11.994	123° 26.412		295					
		2208	EN				49° 11.984	123° 26.410							
4	39	2243	BE	ROS		45	49° 9.808	123° 33.067	375		151-172	22			
		2249	BO				49° 9.821	123° 33.012		365			DA 45	✓	
		2308	EN				49° 09.84	123° 32.98							
4	40	2350	BE	ROS		46	49° 08.62	123° 36.80	143						Fraser plume evident
		2353	BO				49° 08.62	123° 36.80		135			DA 45	✓	
		2356	EN				49° 08.63	123° 36.81							
5	26	0108	BE	ROS		47	49° 14.31	123° 50.77	255						
		0115	BO				49° 14.30	123° 50.77		255			DA 45		
		0121	EN				49° 14.33	123° 50.74							
5	27	0157	BE			48	49° 19.10	123° 47.97	354						
		0205	BO				49° 19.10	123° 47.95		338	173-188	16	DA 47	✓	
		0223	EN				49° 19.14	123° 47.95							

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							Latitude	Longitude							
5	28	03:03	BE	CTD		49	49 24.083	123 45.373	139						
		03:05	BO				49 24.082	123 45.338		130					
		03:08	EN				49 24.089	123 45.355							
5	24	04:41	BE	CTD		50	49° 30.304	124° 5.981	425						
		04:49	BO				49° 30.307	124° 5.989		415					
		04:56	EN				49° 30.314	124° 5.988							
5	25	05:18	BE	CTD		51	49° 27.702	124° 7.483	290						
		05:23	BO				49° 27.698	124° 7.468		280					
		05:08	EN				49° 27.698	124° 7.471							
5	2	06:09	BE	ROS		52	49° 24.097	124° 9.299	277		189-203	15			
		06:14	BO				49° 24.083	124° 9.30		270					
		06:23	EN				49° 24.078	124° 9.295							
	1	06:57	BE	CTD		53	49° 20.29	124° 12.11	245						
5		07:02	BO				49° 20.29	124° 12.10		235			ST		
		07:05	EN				49° 20.30	124° 12.09						✓	
5	4	07:59	BE	CTD		54	49° 26.61	124° 20.24	322						
		08:05	BO				49° 26.62	124° 20.17		315			AS		
		08:10	EN				49° 26.63	124° 20.13							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>April</u>				Year <u>2007</u>			Ship <u>Vector</u>			Cruise ID <u>2007-26</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							
5	3	0834	BE	ROS		55	49°24.503	124°22.100	342		204-219	16	AB/ST	✓	
			BO				49°24.516	124°22.061		335					
			EN				49°24.486	124°22.020							
5	5	0934	BE	CTD		56	49°27.39	124°30.80	314						
		0940	BO				49°27.40	124°30.81		310					
		0945	EN				49°27.38	124°30.81							
5	6	1012	BE	ROS		57	49°30.596	124°27.774	190		220-232	13	STAB/	✓	
		1015	BO				49°30.601	124°27.754		180.3					
		1021	EN				49°30.614	124°27.793							
5	7	1055	BE	ROS		58	49°34.41	124°24.18	355						NO surface sample
		1101	BO				49°34.40	124°24.16		345	-		DA/HJ	✓	
		1107	EN				49°34.40	124°24.16							
5	8	1154	BE	ROS		59	49°39.32	124°32.97	345						NYLON FLUSHED
		1201	BO				49°39.33	124°32.97		335	-		DA/HJ	✓	
		1205	EN				49°39.32	124°32.98							
5	9	1243		ROS		60	49°35.27	124°38.31	170						
		1247					49°35.30	124°38.32		160	233-243	11	DA/HJ	✓	
		1256					49°35.30	124°38.24							

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Month <i>March</i>				Year <i>2007</i>			Ship <i>Vector</i>				Cruise ID <i>2007-22</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							
5	10	1346	BE	ROS		61	49 40 72	124 47 30							
		1349	BO				49 40 72	124 47 28	95						
		1351	EN				49 40 73	124 47 27		92			DA/HJ	✓	
5	11	1451	BE	ROS		62	49 42 39	124 43 38	300						
		1421	BO				49 42 40	124 43 36		293			DA/HJ	✓	
		1426	EN				49 42 40	124 43 34							
5	12	1445	BE	ROS		63	49 43 61	124 40 82	355						
		1452	BO				49 43 61	124 40 77		345	244-259	16	DA/HJ	✓	
		15:04	EN				49 43.603	124 40.76							
5	13	16:36	BE	CTD		64	49 55.288	124 55.241	232						
		16:40	BO				49 55.294	124 55.218		225					
		16:44	EN				49 55.300	124 55.213							
	21	18:09	BE	CTD		65	50° 2.030	125 13.613	78						
		18:11	BO				50 2.028	125 13.613							
		18:13	EN				50 2.026	125 13.596							
	23	2026	BE	ROS		66	50° 15.014	125° 23.030	236		260-275	16	AB/ST	✓	mislabelled
		2030	BO				50° 14.990	125° 23.081		225.1					(net 65)
		2040	EN				50° 15.038	125° 23.186							

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INSTITUTE OF OCEAN SCIENCES

Month <u>APRIL</u>				Year <u>2006</u>			Ship <u>Veeco</u>				Cruise ID <u>2007-26</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							
5	16	2235	BE	ROS		67	49° 57.69	125° 08.82	153						
		2239	BO				49° 57.68	125° 08.86		145	276-286	11	ST/AB		
		2245	EN				49° 57.64	125° 08.86						✓	
5	17	2311	BE	ROS		68	49° 58.80	125° 04.33	243						
		2317	BO				49° 58.80	125° 04.31		255		0	DA/HJ	✓	
		2323	EN				49° 58.80	125° 04.31							
5	18	2351	BE	ROS		69	49° 59.18	124° 58.92	147						
		2354	BO				49° 59.18	124° 58.92		140		0	DA/HJ	✓	
		2357	EN				49° 59.18	124° 58.92							
6	19	0032	BE	ROS		70	50° 01.21	124° 52.89	274						
		0038	BO				50° 01.19	124° 52.88		260		0	DA/HJ	✓	
		0043	EN				50° 01.16	124° 52.88							
6	14	0201	BE	ROS		71	49° 53.05	124° 59.59	315						
		0208	BO				49° 53.06	124° 59.56		310	287-301	15	DA/HJ	✓	System left on at end for a few minutes
		02:21	EN				49° 53.03	124° 59.58							
	15	02:56	BE	CTD		72	49° 51.61	125° 1.59	132						
		02:59	BO				49° 51.61	125° 1.58		125					
		03:02	EN				49° 51.62	125° 1.59							

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