

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS January 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/01	07:04	16.1	15.8	06:30-07:30	WEST	07:00-07:30	WEST
	12:15	11.8	4.3	07:30-09:00	EAST	07:30-08:05	EAST
	16:42	14.8	3.0	10:55-12:40	EAST	11:55-12:40	EAST
				12:40-17:15	WEST	12:40-13:30	WEST
				17:15-18:20	EAST	16:35-17:15	WEST
						17:15-17:50	EAST
2010/01/02	00:18	0.3	14.5	07:10-08:10	WEST	07:40-08:10	WEST
	07:40	16.4	16.1	08:10-09:25	EAST	08:10-08:40	EAST
	13:09	10.8	5.6	12:05-13:35	EAST	12:55-13:35	EAST
	17:45	14.1	3.3	13:35-15:45	WEST	13:35-14:20	WEST
				16:15-18:15	WEST	17:35-18:15	WEST
				18:15-19:20	EAST	18:15-18:45	EAST
2010/01/03	01:02	1.0	13.1	07:50-08:45	WEST	08:20-08:45	WEST
	08:15	16.4	15.4	08:45-09:55	EAST	08:45-09:15	EAST
	14:05	9.8	6.6	13:10-14:30	EAST	13:50-14:30	EAST
	18:49	13.5	3.7	14:30-16:20	WEST	14:30-15:10	WEST
				17:30-19:15	WEST	18:35-19:15	WEST
				19:15-20:20	EAST	19:15-19:45	EAST
2010/01/04	01:44	2.0	11.5	08:30-09:25	WEST	08:55-09:25	WEST
	08:50	16.7	14.7	09:25-10:25	EAST	09:25-09:50	EAST
	15:04	8.9	7.8	14:10-15:25	EAST	14:50-15:25	EAST
	19:57	12.5	3.6	15:25-17:10	WEST	15:25-16:05	WEST
				18:40-20:20	WEST	19:40-20:20	WEST
				20:20-21:30	EAST	20:20-20:55	EAST
2010/01/05	02:27	3.6	8.9	09:00-10:00	WEST	09:30-10:00	WEST
	09:24	16.7	13.1	10:00-11:00	EAST	10:00-10:25	EAST
	16:03	7.2	9.5	15:10-16:25	EAST	15:50-16:25	EAST
	21:13	11.5	4.3	16:25-18:05	WEST	16:25-17:05	WEST
				19:50-21:35	WEST	20:50-21:35	WEST
				21:35-23:00	EAST	21:35-22:15	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/06	03:10	5.6	5.9			10:05-10:35	WEST
	09:59	16.4	10.8	09:30-10:35	WEST	10:35-11:05	EAST
	17:02	5.9	10.5	10:35-11:40	EAST	22:15-23:00	WEST
	22:47	11.2	5.3	18:35-19:05	WEST	23:00-23:50	EAST
				21:10-23:00	WEST		
				23:00-01:05	EAST		
2010/01/07	03:57	7.9	3.3	02:35-04:35	EAST	03:50-04:35	EAST
	10:34	15.7	7.8	04:35-06:00	WEST	04:35-05:15	WEST
	17:58	4.9	10.8	09:50-11:05	WEST	10:35-11:05	WEST
				11:05-12:20	EAST	11:05-11:40	EAST
				22:45-00:45	WEST	23:50-00:45	WEST
2010/01/08	00:40	11.5	6.6	00:45-05:30	EAST	00:45-01:50	EAST
	04:56	9.8	1.7	05:30-07:35	WEST	04:20-05:30	EAST
	11:09	15.1	5.3	10:00-11:45	WEST	05:30-06:25	WEST
	18:52	3.9	11.2	11:45-13:05	EAST	11:00-11:45	WEST
					11:45-12:20	EAST	
2010/01/09	02:22	12.5	8.6	00:30-02:30	WEST	01:30-02:30	WEST
	06:19	11.2	1.3	02:30-06:45	EAST	02:30-06:45	EAST
	11:47	14.4	3.2	06:45-12:20	WEST	06:45-08:00	WEST
	19:45	3.3	11.1	12:20-13:55	EAST	11:25-12:20	WEST
						12:20-13:05	EAST
2010/01/10	03:39	13.5	10.2	02:05-04:00	WEST	03:00-04:00	WEST
	07:56	12.1	1.4	04:00-08:20	EAST	04:00-08:20	EAST
	12:30	14.1	2.0	08:20-13:05	WEST	08:20-10:00	WEST
	20:36	3.0	11.1	13:05-14:45	EAST	11:45-13:05	WEST
					13:05-13:55	EAST	
2010/01/11	04:33	14.4	11.4	03:20-05:00	WEST	04:10-05:00	WEST
	09:19	12.1	2.3	05:00-09:45	EAST	05:00-06:20	EAST
	13:18	13.8	1.7	09:45-13:50	WEST	08:05-09:45	EAST
	21:25	2.6	11.2	13:50-15:35	EAST	09:45-13:50	WEST
					13:50-14:45	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/12	05:15	14.8	12.2	04:20-05:45	WEST	05:05-05:45	WEST
	10:18	12.1	2.7	05:45-10:55	EAST	05:45-06:45	EAST
	14:11	13.5	1.4	10:55-14:45	WEST	09:30-10:55	EAST
	22:11	2.6	10.9	14:45-16:25	EAST	10:55-14:45	WEST
						14:45-15:35	EAST
2010/01/13	05:51	15.1	12.5	05:05-06:25	WEST	05:45-06:25	WEST
	11:03	11.8	3.3	06:25-11:45	EAST	06:25-07:15	EAST
	15:03	13.5	1.7	11:45-15:30	WEST	10:35-11:45	EAST
	22:52	2.3	11.2	15:30-17:10	EAST	11:45-15:30	WEST
						15:30-16:25	EAST
2010/01/14	06:22	15.4	13.1	05:40-07:00	WEST	06:20-07:00	WEST
	11:43	11.5	3.9	07:00-12:25	EAST	07:00-07:45	EAST
	15:52	13.5	2.0	12:25-16:20	WEST	11:20-12:25	EAST
	23:29	2.3	11.2	16:20-17:55	EAST	12:25-14:05	WEST
						14:50-16:20	WEST
						16:20-17:05	EAST
2010/01/15	06:51	15.4	13.1	06:15-07:30	WEST	06:50-07:30	WEST
	12:20	11.2	4.2	07:30-09:30	EAST	07:30-08:10	EAST
	16:38	13.1	1.9	10:35-13:00	EAST	12:00-13:00	EAST
				13:00-17:05	WEST	13:00-14:20	WEST
				17:05-18:35	EAST	15:50-17:05	WEST
						17:05-17:50	EAST
2010/01/16	00:02	2.6	10.5	06:45-07:55	WEST	07:20-07:55	WEST
	07:19	15.4	12.8	07:55-09:35	EAST	07:55-08:35	EAST
	12:58	10.8	4.6	11:30-13:35	EAST	12:40-13:35	EAST
	17:23	13.1	2.3	13:35-17:45	WEST	13:35-14:45	WEST
				17:45-19:15	EAST	16:45-17:45	WEST
						17:45-18:30	EAST
2010/01/17	00:33	3.0	10.1	07:10-08:20	WEST	07:45-08:20	WEST
	07:44	15.4	12.4	08:20-09:50	EAST	08:20-08:55	EAST
	13:37	10.2	5.2	12:15-14:10	EAST	13:20-14:10	EAST
	18:08	12.5	2.3	14:10-18:30	WEST	14:10-15:15	WEST
				18:30-20:00	EAST	17:30-18:30	WEST
						18:30-19:15	EAST

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YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/18	01:02	3.6	8.9	07:30-08:40	WEST	08:10-08:40	WEST
	08:07	15.4	11.8	08:40-10:10	EAST	08:40-09:20	EAST
	14:16	9.5	5.9	12:55-14:45	EAST	13:55-14:45	EAST
	18:56	12.1	2.6	14:45-19:15	WEST	14:45-15:45	WEST
				19:15-20:50	EAST	18:20-19:15	WEST
						19:15-20:00	EAST
2010/01/19	01:30	4.6	7.5	07:50-09:00	WEST	08:30-09:00	WEST
	08:30	15.4	10.8	09:00-10:25	EAST	09:00-09:40	EAST
	14:56	8.5	6.9	13:35-15:20	EAST	14:30-15:20	EAST
	19:48	11.8	3.3	15:20-20:05	WEST	15:20-16:15	WEST
				20:05-21:50	EAST	19:10-20:05	WEST
						20:05-20:55	EAST
2010/01/20	01:59	5.9	5.9			08:45-09:25	WEST
	08:52	15.1	9.2	08:05-09:25	WEST	09:25-10:00	EAST
	15:38	7.9	7.2	09:25-10:45	EAST	15:10-15:55	EAST
	20:47	11.2	3.3	14:20-15:55	EAST	15:55-16:50	WEST
				15:55-21:05	WEST	20:05-21:05	WEST
			21:05-23:10	EAST	21:05-22:00	EAST	
2010/01/21	02:31	7.2	4.0	01:05-03:00	EAST	02:15-03:00	EAST
	09:16	15.1	7.9	03:00-04:30	WEST	03:00-03:45	WEST
	16:21	6.9	8.2	08:20-09:45	WEST	09:05-09:45	WEST
	21:59	11.2	4.3	09:45-11:10	EAST	09:45-10:20	EAST
				15:00-15:50	EAST	16:55-17:30	WEST
			16:55-22:15	WEST	21:10-22:15	WEST	
			22:15-03:35	EAST	22:15-23:20	EAST	
2010/01/22	03:07	8.5	2.7	03:35-05:30	WEST	02:30-03:35	EAST
	09:42	14.8	6.3	08:25-10:05	WEST	03:35-04:25	WEST
	17:07	5.9	8.9	10:05-11:35	EAST	09:25-10:05	WEST
	23:36	11.2	5.3	18:50-23:40	WEST	10:05-10:50	EAST
				23:40-04:15	EAST	22:30-23:40	WEST
						23:40-01:35	EAST
2010/01/23	03:50	9.8	1.4	04:15-07:10	WEST	02:20-04:15	EAST
	10:10	14.4	4.6	08:05-10:35	WEST	04:15-05:25	WEST
	17:57	5.2	9.2	10:35-12:10	EAST	09:45-10:35	WEST
						10:35-11:20	EAST
			22:35-01:30	WEST			

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/24	01:37	11.8	6.6	01:30-05:05	EAST	00:10-01:30	WEST
	04:50	11.2	0.6	05:05-11:10	WEST	01:30-05:05	EAST
	10:44	14.4	3.2	11:10-12:55	EAST	05:05-06:40	WEST
	18:50	4.3	10.1			10:05-11:10	WEST
						11:10-12:00	EAST
2010/01/25	03:01	12.8	8.5	00:35-03:10	WEST	01:50-03:10	WEST
	06:17	12.1	0.7	03:10-06:30	EAST	03:10-06:30	EAST
	11:28	14.1	2.0	06:30-12:00	WEST	06:30-08:25	WEST
	19:47	3.3	10.8	12:00-13:45	EAST	10:40-12:00	WEST
					12:00-12:55	EAST	
2010/01/26	03:58	13.8	10.5	02:15-04:20	WEST	03:15-04:20	WEST
	08:01	12.5	1.3	04:20-08:10	EAST	04:20-08:10	EAST
	12:24	14.1	1.6	08:10-13:00	WEST	08:10-10:00	WEST
	20:43	2.3	11.8	13:00-14:40	EAST	11:40-13:00	WEST
					13:00-13:50	EAST	
2010/01/27	04:43	14.4	12.1	03:30-05:05	WEST	04:15-05:05	WEST
	09:20	12.5	1.9	05:05-09:35	EAST	05:05-06:20	EAST
	13:29	14.4	1.9	09:35-14:10	WEST	08:00-09:35	EAST
	21:38	1.6	12.8	14:10-15:35	EAST	09:35-10:55	WEST
						13:05-14:10	WEST
					14:10-14:55	EAST	
2010/01/28	05:21	15.1	13.5	04:30-05:45	WEST	05:10-05:45	WEST
	10:19	12.1	3.0	05:45-10:35	EAST	05:45-06:35	EAST
	14:38	14.4	2.3	10:35-15:15	WEST	09:40-10:35	EAST
	22:29	1.0	13.4	15:15-16:30	EAST	10:35-11:40	WEST
						14:30-15:15	WEST
					15:15-15:55	EAST	
2010/01/29	05:56	15.4	14.4	05:20-06:20	WEST	05:50-06:20	WEST
	11:11	11.2	4.2	06:20-07:55	EAST	06:20-07:00	EAST
	15:48	14.4	3.2	09:45-11:35	EAST	10:45-11:35	EAST
	23:17	0.7	13.7	11:35-13:45	WEST	11:35-12:20	WEST
				14:25-16:20	WEST	15:45-16:20	WEST
			16:20-17:25	EAST	16:20-16:55	EAST	

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YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/01/30	06:29	15.7	15.0	06:00-06:55	WEST	06:30-06:55	WEST
	12:00	10.2	5.5	06:55-08:10	EAST	06:55-07:25	EAST
	16:55	14.4	4.2	11:00-12:25	EAST	11:45-12:25	EAST
				12:25-13:55	WEST	12:25-13:05	WEST
				16:00-17:25	WEST	16:50-17:25	WEST
				17:25-18:25	EAST	17:25-17:55	EAST
2010/01/31	00:01	1.3	13.1	06:40-07:30	WEST	07:05-07:30	WEST
	07:00	16.1	14.8	07:30-08:30	EAST	07:30-08:00	EAST
	12:50	8.9	7.2	12:05-13:15	EAST	12:40-13:15	EAST
	17:58	14.1	5.2	13:15-14:35	WEST	13:15-13:50	WEST
				17:15-18:25	WEST	17:55-18:25	WEST
				18:25-19:25	EAST	18:25-18:55	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS February 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/02/01	00:42	2.3	11.8	07:15-08:05	WEST	07:40-08:05	WEST
	07:31	16.4	14.1	08:05-09:00	EAST	08:05-08:30	EAST
	13:40	7.5	8.9	13:00-14:05	EAST	13:35-14:05	EAST
	19:00	13.5	6.0	14:05-15:15	WEST	14:05-14:35	WEST
				18:20-19:25	WEST	18:55-19:25	WEST
				19:25-20:25	EAST	19:25-19:55	EAST
2010/02/02	01:23	3.6	9.9	07:45-08:35	WEST	08:10-08:35	WEST
	08:02	16.4	12.8	08:35-09:30	EAST	08:35-09:00	EAST
	14:31	6.2	10.2	15:35-16:05	WEST	20:00-20:30	WEST
	20:05	12.8	6.6	19:20-20:30	WEST	20:30-21:05	EAST
				20:30-21:40	EAST		
2010/02/03	02:04	5.6	7.2	08:10-09:05	WEST	08:40-09:05	WEST
	08:34	16.4	10.8	09:05-10:05	EAST	09:05-09:35	EAST
	15:23	5.2	11.2	20:25-21:40	WEST	21:05-21:40	WEST
	21:18	12.5	7.3	21:40-23:05	EAST	21:40-22:20	EAST
2010/02/04	02:46	7.5	5.0	02:00-03:20	EAST	02:45-03:20	EAST
	09:06	15.7	8.2	03:20-04:40	WEST	03:20-03:55	WEST
	16:15	4.6	11.1	08:30-09:40	WEST	09:05-09:40	WEST
	22:47	12.1	7.5	09:40-10:40	EAST	09:40-10:10	EAST
				21:30-23:00	WEST	22:20-23:00	WEST
				23:00-04:10	EAST	23:00-23:50	EAST
2010/02/05	03:34	9.2	2.9	04:10-05:55	WEST	03:20-04:10	EAST
	09:38	15.1	5.9	08:40-10:10	WEST	04:10-05:00	WEST
	17:09	4.3	10.8	10:10-11:25	EAST	09:30-10:10	WEST
				22:45-00:35	WEST	10:10-10:45	EAST
					23:40-00:35	WEST	

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 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/02/06	00:26	12.5	8.2	00:35-05:10	EAST	00:35-01:50	EAST
	04:37	10.8	1.7	05:10-10:45	WEST	03:45-05:10	EAST
	10:13	14.4	3.6	10:45-12:20	EAST	05:10-06:20	WEST
	18:06	3.9	10.5			09:50-10:45	WEST
						10:45-11:30	EAST
2010/02/07	01:56	13.1	9.2	00:05-02:15	WEST	01:10-02:15	WEST
	06:14	11.8	1.3	02:15-06:35	EAST	02:15-06:35	EAST
	10:54	13.8	2.0	06:35-11:30	WEST	06:35-08:30	WEST
	19:05	3.9	9.9	11:30-13:20	EAST	09:55-11:30	WEST
					11:30-12:25	EAST	
2010/02/08	03:10	13.8	9.9	01:30-03:35	WEST	02:35-03:35	WEST
	08:02	12.1	1.7	03:35-08:20	EAST	03:35-08:20	EAST
	11:46	13.1	1.0	08:20-12:25	WEST	08:20-12:25	WEST
	20:05	3.6	9.5	12:25-14:30	EAST	12:25-13:30	EAST
2010/02/09	04:04	14.1	10.5	02:45-04:35	WEST	03:40-04:35	WEST
	09:18	11.8	2.3	04:35-09:45	EAST	04:35-05:50	EAST
	12:53	12.8	1.0	09:45-13:30	WEST	08:00-09:45	EAST
	21:01	3.6	9.2	13:30-15:35	EAST	09:45-13:30	WEST
					13:30-14:35	EAST	
2010/02/10	04:44	14.4	10.8	03:40-05:15	WEST	04:30-05:15	WEST
	10:08	11.5	2.9	05:15-10:45	EAST	05:15-06:15	EAST
	14:05	12.8	1.3	10:45-14:35	WEST	09:25-10:45	EAST
	21:50	3.6	9.2	14:35-16:25	EAST	10:45-14:35	WEST
					14:35-15:35	EAST	
2010/02/11	05:17	14.8	11.2	04:25-05:50	WEST	05:10-05:50	WEST
	10:46	10.8	4.0	05:50-11:25	EAST	05:50-06:40	EAST
	15:09	12.8	2.0	11:25-15:35	WEST	10:20-11:25	EAST
	22:31	3.3	9.5	15:35-17:15	EAST	11:25-12:55	WEST
						14:15-15:35	WEST
					15:35-16:25	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/02/12	05:45	14.8	11.5	05:00-06:20	WEST	05:40-06:20	WEST
	11:20	10.5	4.3	06:20-08:10	EAST	06:20-07:00	EAST
	16:02	12.8	2.3	09:40-12:00	EAST	11:00-12:00	EAST
	23:07	3.6	9.2	12:00-16:25	WEST	12:00-13:05	WEST
				16:25-17:55	EAST	15:25-16:25	WEST
						16:25-17:10	EAST
2010/02/13	06:11	14.8	11.2	05:30-06:45	WEST	06:10-06:45	WEST
	11:54	9.8	5.0	06:45-08:20	EAST	06:45-07:25	EAST
	16:49	13.1	3.3	10:35-12:30	EAST	11:40-12:30	EAST
	23:39	3.6	9.5	12:30-17:10	WEST	12:30-13:25	WEST
				17:10-18:35	EAST	16:20-17:10	WEST
						17:10-17:50	EAST
2010/02/14	06:34	14.8	11.2	05:55-07:05	WEST	06:35-07:05	WEST
	12:27	9.2	5.6	07:05-08:30	EAST	07:05-07:45	EAST
	17:33	13.1	3.9	11:20-13:00	EAST	12:15-13:00	EAST
				13:00-17:55	WEST	13:00-13:50	WEST
				17:55-19:15	EAST	17:05-17:55	WEST
						17:55-18:35	EAST
2010/02/15	00:09	4.3	8.8	06:15-07:25	WEST	06:55-07:25	WEST
	06:54	14.8	10.5	07:25-08:45	EAST	07:25-08:00	EAST
	12:59	8.2	6.6	11:55-13:30	EAST	12:45-13:30	EAST
	18:17	12.8	4.6	13:30-15:25	WEST	13:30-14:15	WEST
				16:40-18:40	WEST	17:55-18:40	WEST
				18:40-20:00	EAST	18:40-19:20	EAST
2010/02/16	00:38	4.9	7.9	06:35-07:45	WEST	07:10-07:45	WEST
	07:14	14.8	9.9	07:45-09:00	EAST	07:45-08:20	EAST
	13:33	7.5	7.3	12:30-13:55	EAST	13:20-13:55	EAST
	19:02	12.8	5.3	13:55-15:40	WEST	13:55-14:40	WEST
				17:40-19:25	WEST	18:40-19:25	WEST
			19:25-20:50	EAST	19:25-20:05	EAST	
2010/02/17	01:07	5.9	6.9			07:30-08:05	WEST
	07:34	14.8	8.9	06:50-08:05	WEST	08:05-08:35	EAST
	14:08	6.6	8.2	08:05-09:20	EAST	14:55-15:10	WEST
	19:51	12.5	5.9			19:30-20:15	WEST
				14:55-16:00	WEST	20:15-20:55	EAST
				18:35-20:15	WEST		
				20:15-21:50	EAST		

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

OPERATIONAL TIME FRAMES
2 KNOT CURRENT 1 KNOT CURRENT

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	PERIOD	DIR	PERIOD	DIR
2010/02/18	01:38	7.2	5.3	00:30-02:05	EAST	01:25-02:05	EAST
	07:56	14.8	7.6	02:05-03:30	WEST	02:05-02:45	WEST
	14:45	5.9	8.9	07:00-08:20	WEST	07:45-08:20	WEST
	20:45	12.1	6.2	08:20-09:35	EAST	08:20-08:55	EAST
						20:20-21:05	WEST
						21:05-21:55	EAST
					19:25-21:05	WEST	
				21:05-23:10	EAST		
2010/02/19	02:11	8.2	3.9	00:30-02:40	EAST	01:50-02:40	EAST
	08:18	14.4	6.2	02:40-04:20	WEST	02:40-03:25	WEST
	15:24	5.2	9.2	07:10-08:40	WEST	08:00-08:40	WEST
	21:51	12.1	6.9	08:40-10:00	EAST	08:40-09:20	EAST
						20:20-22:10	WEST
						22:10-23:10	EAST
2010/02/20	02:50	9.5	2.6	03:10-05:30	WEST	02:10-03:10	EAST
	08:43	14.1	4.6	07:05-09:05	WEST	03:10-04:10	WEST
	16:09	4.6	9.5	09:05-10:35	EAST	08:20-09:05	WEST
	23:15	12.5	7.9	21:20-23:25	WEST	09:05-09:45	EAST
						22:25-23:25	WEST
					23:25-01:05	EAST	
2010/02/21	03:37	10.8	1.7	03:55-09:40	WEST	02:05-03:55	EAST
	09:11	14.1	3.3	09:40-11:15	EAST	03:55-05:10	WEST
	17:01	4.3	9.8	22:35-01:00	WEST	08:40-09:40	WEST
						09:40-10:25	EAST
					23:50-01:00	WEST	
2010/02/22	00:55	12.8	8.5	01:00-04:50	EAST	01:00-04:50	EAST
	04:43	11.8	1.0	04:50-10:20	WEST	04:50-06:40	WEST
	09:50	13.8	2.0	10:20-12:10	EAST	09:05-10:20	WEST
	18:02	3.9	9.9			10:20-11:15	EAST
2010/02/23	02:17	13.5	9.6	00:10-02:35	WEST	01:25-02:35	WEST
	06:25	12.1	1.4	02:35-06:25	EAST	02:35-06:25	EAST
	10:48	13.5	1.4	06:25-11:25	WEST	06:25-08:55	WEST
	19:08	3.3	10.2	11:25-13:20	EAST	09:25-11:25	WEST
						11:25-12:25	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/02/24	03:16	14.1	10.8	01:45-03:45	WEST	02:45-03:45	WEST
	08:09	12.1	2.0	03:45-08:10	EAST	03:45-08:10	EAST
	12:06	13.5	1.4	08:10-12:45	WEST	08:10-10:05	WEST
	20:14	3.0	10.5	12:45-14:30	EAST	11:15-12:45	WEST
						12:45-13:40	EAST
2010/02/25	04:01	14.4	11.4	03:00-04:30	WEST	03:45-04:30	WEST
	09:16	11.5	2.9	04:30-09:25	EAST	04:30-05:25	EAST
	13:30	13.5	2.0	09:25-14:10	WEST	08:15-09:25	EAST
	21:14	2.3	11.2	14:10-15:35	EAST	09:25-10:40	WEST
						13:15-14:10	WEST
						14:10-14:55	EAST
2010/02/26	04:38	14.8	12.5	03:55-05:05	WEST	04:30-05:05	WEST
	10:08	10.5	4.3	05:05-06:50	EAST	05:05-05:45	EAST
	14:52	13.8	3.3	08:30-10:25	EAST	09:35-10:25	EAST
	22:08	2.3	11.5	10:25-12:45	WEST	10:25-11:15	WEST
						13:20-15:25	WEST
						15:25-16:00	EAST
2010/02/27	05:11	15.1	12.8	04:40-05:40	WEST	05:10-05:40	WEST
	10:55	9.2	5.9	05:40-06:50	EAST	05:40-06:10	EAST
	16:05	14.1	4.9	09:55-11:15	EAST	10:40-11:15	EAST
	22:55	2.6	11.5	11:15-12:45	WEST	11:15-11:55	WEST
						16:00-16:35	WEST
						16:35-17:05	EAST
2010/02/28	05:41	15.4	12.8	05:15-06:10	WEST	05:45-06:10	WEST
	11:41	7.5	7.9	06:10-07:10	EAST	06:10-06:40	EAST
	17:09	14.1	6.6	10:55-12:05	EAST	11:35-12:05	EAST
	23:39	3.3	10.8	12:05-13:15	WEST	12:05-12:35	WEST
						17:10-17:35	WEST
						17:35-18:05	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS March 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/01	06:11	15.7	12.4	05:50-06:40	WEST	06:20-06:40	WEST
	12:26	6.2	9.5	06:40-07:35	EAST	06:40-07:05	EAST
	18:09	14.1	7.9			18:10-18:40	WEST
				17:40-18:40	WEST	18:40-19:05	EAST
				18:40-19:35	EAST		
2010/03/02	00:20	4.6	9.5	06:20-07:15	WEST	06:50-07:15	WEST
	06:41	16.1	11.5	07:15-08:05	EAST	07:15-07:35	EAST
	13:11	4.9	11.2	18:40-19:40	WEST	19:10-19:40	WEST
	19:09	13.8	8.9	19:40-20:40	EAST	19:40-20:05	EAST
2010/03/03	01:02	5.9	7.9			07:15-07:45	WEST
	07:11	15.7	9.8	06:45-07:45	WEST	07:45-08:10	EAST
	13:56	3.9	11.8	07:45-08:35	EAST	20:10-20:40	WEST
	20:11	13.5	9.6	19:35-20:40	WEST	20:40-21:10	EAST
				20:40-21:50	EAST		
2010/03/04	01:44	7.5	6.0	01:10-02:25	EAST	01:50-02:25	EAST
	07:41	15.4	7.9	02:25-03:35	WEST	02:25-02:55	WEST
	14:42	3.6	11.8	07:05-08:15	WEST	07:45-08:15	WEST
	21:19	13.5	9.9	08:15-09:15	EAST	08:15-08:40	EAST
				20:30-21:45	WEST	21:10-21:45	WEST
				21:45-23:10	EAST	21:45-22:20	EAST
2010/03/05	02:31	9.2	4.3	01:30-03:10	EAST	02:25-03:10	EAST
	08:12	14.8	5.6	03:10-04:45	WEST	03:10-03:50	WEST
	15:29	3.3	11.5	07:20-08:45	WEST	08:10-08:45	WEST
	22:35	13.5	10.2	08:45-09:55	EAST	08:45-09:20	EAST
				21:25-22:50	WEST	22:10-22:50	WEST
				22:50-04:00	EAST	22:50-23:40	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/06	03:25	10.5	3.0	04:00-09:20	WEST	03:05-04:00	EAST
	08:44	14.1	3.6	09:20-10:45	EAST	04:00-05:00	WEST
	16:20	3.6	10.5	22:25-00:10	WEST	08:30-09:20	WEST
	23:54	13.5	9.9			09:20-10:00	EAST
						23:15-00:10	WEST
2010/03/07	04:40	11.2	2.3	00:10-05:05	EAST	00:10-01:20	EAST
	09:20	13.1	1.9	05:05-09:55	WEST	03:40-05:05	EAST
	17:16	3.9	9.2	09:55-11:45	EAST	05:05-06:40	WEST
				23:30-01:30	WEST	08:35-09:55	WEST
						09:55-10:50	EAST
2010/03/08	01:10	13.5	9.6	01:30-06:35	EAST	00:30-01:30	WEST
	06:28	11.5	2.0	06:35-10:45	WEST	01:30-03:10	EAST
	10:05	12.5	1.0	10:45-13:05	EAST	04:30-06:35	EAST
	18:17	4.6	7.9			06:35-10:45	WEST
						10:45-11:55	EAST
2010/03/09	02:17	13.8	9.2	00:40-02:45	WEST	01:45-02:45	WEST
	08:05	11.5	2.3	02:45-08:20	EAST	02:45-04:15	EAST
	11:13	11.8	0.3	08:20-11:55	WEST	06:15-08:20	EAST
	19:23	4.6	7.2	11:55-14:30	EAST	08:20-11:55	WEST
						11:55-13:15	EAST
2010/03/10	03:10	13.8	9.2	01:50-03:40	WEST	02:45-03:40	WEST
	09:06	10.8	3.0	03:40-09:30	EAST	03:40-04:50	EAST
	12:46	11.5	0.7	09:30-13:20	WEST	07:55-09:30	EAST
	20:24	4.9	6.6	13:20-15:40	EAST	09:30-13:20	WEST
						13:20-14:30	EAST
2010/03/11	03:51	14.1	9.2	02:45-04:20	WEST	03:35-04:20	WEST
	09:47	10.2	3.9	04:20-10:15	EAST	04:20-05:15	EAST
	14:16	11.8	1.6	10:15-14:35	WEST	09:05-10:15	EAST
	21:17	4.9	6.9	14:35-16:35	EAST	10:15-12:00	WEST
						13:00-14:35	WEST
						14:35-15:35	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/12	04:24	14.1	9.2	03:30-04:55	WEST	04:15-04:55	WEST
	10:20	9.2	4.9	04:55-06:50	EAST	04:55-05:40	EAST
	15:21	12.1	2.9	08:40-10:50	EAST	09:55-10:50	EAST
	22:00	4.9	7.2	10:50-15:35	WEST	10:50-12:00	WEST
				15:35-17:20	EAST	14:35-15:35	WEST
						15:35-16:25	EAST
2010/03/13	04:51	14.1	9.2	04:00-05:20	WEST	04:45-05:20	WEST
	10:52	8.5	5.6	05:20-06:55	EAST	05:20-06:00	EAST
	16:12	12.5	4.0	09:35-11:25	EAST	10:35-11:25	EAST
	22:38	5.2	7.3	11:25-16:30	WEST	11:25-12:15	WEST
				16:30-18:00	EAST	15:40-16:30	WEST
						16:30-17:10	EAST
2010/03/14	05:15	14.1	8.9	04:30-05:45	WEST	05:10-05:45	WEST
	11:22	7.9	6.2	05:45-07:10	EAST	05:45-06:20	EAST
	16:57	12.8	4.9	10:20-11:50	EAST	11:10-11:50	EAST
	23:12	5.6	7.2	11:50-13:40	WEST	11:50-12:35	WEST
				15:30-17:15	WEST	16:35-17:15	WEST
						17:15-17:55	EAST
2010/03/15	05:36	14.1	8.5	04:50-06:05	WEST	05:30-06:05	WEST
	11:52	6.9	7.2	06:05-07:25	EAST	06:05-06:40	EAST
	17:40	13.1	6.2			12:25-12:55	WEST
	23:43	6.2	6.9	12:25-13:50	WEST	17:20-18:00	WEST
				16:30-18:00	WEST	18:00-18:40	EAST
			18:00-19:25	EAST			
2010/03/16	05:56	14.1	7.9	01:00-01:30	WEST	05:50-06:25	WEST
	12:23	5.9	8.2	05:10-06:25	WEST	06:25-07:00	EAST
	18:23	13.5	7.6	06:25-07:40	EAST	18:10-18:45	WEST
						18:45-19:25	EAST
				17:25-18:45	WEST		
				18:45-20:10	EAST		
				23:20-00:00	EAST		
2010/03/17	00:15	6.9	6.6			00:30-00:45	EAST
	06:16	14.1	7.2	00:45-02:10	WEST	00:45-01:20	WEST
	12:54	5.2	8.9	05:20-06:40	WEST	06:05-06:40	WEST
	19:07	13.5	8.3	06:40-07:55	EAST	06:40-07:15	EAST
				18:10-19:30	WEST	18:55-19:30	WEST
				19:30-21:00	EAST	19:30-20:10	EAST
				23:45-01:15	EAST		

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL

PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/18	00:47	7.9	5.6	01:15-02:50	WEST	00:35-01:15	EAST
	06:37	14.1	6.2	05:35-07:00	WEST	01:15-02:00	WEST
	13:27	4.6	9.5	07:00-08:15	EAST	06:25-07:00	WEST
	19:55	13.5	8.9	19:00-20:20	WEST	07:00-07:35	EAST
				20:20-22:00	EAST	19:40-20:20	WEST
						20:20-21:00	EAST
2010/03/19	01:21	8.9	4.6	00:00-01:50	EAST	01:05-01:50	EAST
	06:59	14.1	5.2	01:50-03:40	WEST	01:50-02:35	WEST
	14:03	3.9	10.2	05:40-07:20	WEST	06:40-07:20	WEST
	20:48	13.5	9.6	07:20-08:35	EAST	07:20-07:55	EAST
				19:45-21:10	WEST	20:30-21:10	WEST
			21:10-02:25	EAST	21:10-21:55	EAST	
2010/03/20	01:59	9.8	3.7	02:25-05:00	WEST	01:35-02:25	EAST
	07:22	13.8	4.0	05:25-07:45	WEST	02:25-03:20	WEST
	14:42	3.6	10.2	07:45-09:05	EAST	07:00-07:45	WEST
	21:50	13.5	9.9	20:35-22:10	WEST	07:45-08:25	EAST
				22:10-03:10	EAST	21:25-22:10	WEST
					22:10-23:05	EAST	
2010/03/21	02:45	10.5	3.0	03:10-08:20	WEST	02:00-03:10	EAST
	07:49	13.5	3.0	08:20-09:45	EAST	03:10-04:15	WEST
	15:27	3.3	10.2	21:30-23:15	WEST	07:25-08:20	WEST
	23:01	13.5	10.2	23:15-04:00	EAST	08:20-09:00	EAST
						22:25-23:15	WEST
					23:15-00:35	EAST	
2010/03/22	03:44	11.2	2.3	04:00-09:00	WEST	02:25-04:00	EAST
	08:23	13.1	1.9	09:00-10:40	EAST	04:00-05:25	WEST
	16:20	3.3	9.8	22:35-00:35	WEST	07:50-09:00	WEST
						09:00-09:50	EAST
					23:35-00:35	WEST	
2010/03/23	00:17	13.8	10.5	00:35-05:10	EAST	00:35-05:10	EAST
	05:11	11.8	2.0	05:10-09:55	WEST	05:10-07:25	WEST
	09:15	12.8	1.0	09:55-11:50	EAST	08:05-09:55	WEST
	17:23	3.6	9.2	23:55-01:50	WEST	09:55-10:55	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/24	01:25	14.1	10.5	01:50-06:50	EAST	00:55-01:50	WEST
	06:56	11.5	2.6	06:50-11:15	WEST	01:50-03:30	EAST
	10:37	12.5	1.0	11:15-13:15	EAST	04:50-06:50	EAST
	18:32	3.6	8.9			06:50-11:15	WEST
						11:15-12:15	EAST
2010/03/25	02:21	14.1	10.5	01:10-02:50	WEST	02:00-02:50	WEST
	08:12	10.5	3.6	02:50-08:15	EAST	02:50-03:50	EAST
	12:14	12.1	1.6	08:15-12:50	WEST	07:00-08:15	EAST
	19:42	3.6	8.5	12:50-14:35	EAST	08:15-09:45	WEST
						11:35-12:50	WEST
						12:50-13:45	EAST
2010/03/26	03:05	14.4	10.8	02:15-03:35	WEST	02:55-03:35	WEST
	09:05	9.5	4.9	03:35-05:25	EAST	03:35-04:20	EAST
	13:51	12.5	3.0	07:15-09:20	EAST	08:25-09:20	EAST
	20:45	3.9	8.6	09:20-14:25	WEST	09:20-10:15	WEST
			14:25-15:50	EAST	13:35-14:25	WEST	
					14:25-15:05	EAST	
2010/03/27	03:43	14.8	10.9	03:05-04:10	WEST	03:40-04:10	WEST
	09:51	7.9	6.9	04:10-05:30	EAST	04:10-04:45	EAST
	15:13	12.8	4.9	08:45-10:10	EAST	09:30-10:10	EAST
	21:40	4.3	8.5	10:10-11:40	WEST	10:10-10:50	WEST
			14:15-15:40	WEST	15:05-15:40	WEST	
			15:40-16:55	EAST	15:40-16:15	EAST	
2010/03/28	04:16	15.1	10.8	03:45-04:45	WEST	04:15-04:45	WEST
	10:35	6.2	8.9	04:45-05:50	EAST	04:45-05:15	EAST
	16:21	13.5	7.3			16:20-16:50	WEST
	22:30	5.2	8.3	15:40-16:50	WEST	16:50-17:20	EAST
			16:50-17:55	EAST			
2010/03/29	04:47	15.1	9.9	04:20-05:15	WEST	04:50-05:15	WEST
	11:17	4.9	10.2	05:15-06:15	EAST	05:15-05:45	EAST
	17:22	13.8	8.9	16:50-17:50	WEST	17:25-17:50	WEST
	23:16	6.2	7.6	17:50-18:55	EAST	17:50-18:20	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/03/30	05:18	15.1	8.9	00:25-00:55	WEST	05:20-05:45	WEST
	11:59	3.6	11.5	04:50-05:45	WEST	05:45-06:15	EAST
	18:20	14.1	10.5	05:45-06:40	EAST	18:25-18:50	WEST
				17:55-18:50	WEST	18:50-19:20	EAST
				18:50-19:55	EAST		
				23:30-00:40	EAST		
2010/03/31	00:01	7.2	6.9	00:40-01:45	WEST	00:10-00:40	EAST
	05:49	15.1	7.9	05:15-06:20	WEST	00:40-01:10	WEST
	12:41	2.6	12.5	06:20-07:15	EAST	05:50-06:20	WEST
	19:16	14.4	11.8	18:50-19:45	WEST	06:20-06:45	EAST
				19:45-20:55	EAST	19:20-19:45	WEST
						19:45-20:15	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS April 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/01	00:45	8.5	5.9	00:10-01:25	EAST	00:50-01:25	EAST
	06:19	14.8	6.3	01:25-02:45	WEST	01:25-02:00	WEST
	13:22	2.3	12.5	05:35-06:50	WEST	06:20-06:50	WEST
	20:14	14.4	12.1	06:50-07:50	EAST	06:50-07:20	EAST
				19:40-20:45	WEST	20:10-20:45	WEST
				20:45-22:00	EAST	20:45-21:15	EAST
2010/04/02	01:32	9.5	4.9	00:45-02:15	EAST	01:35-02:15	EAST
	06:51	14.4	4.9	02:15-04:00	WEST	02:15-02:55	WEST
	14:04	2.3	12.1	05:45-07:20	WEST	06:45-07:20	WEST
	21:13	14.4	12.1	07:20-08:30	EAST	07:20-07:55	EAST
				20:30-21:40	WEST	21:05-21:40	WEST
				21:40-23:20	EAST	21:40-22:15	EAST
2010/04/03	02:24	10.2	4.2	01:05-03:05	EAST	02:15-03:05	EAST
	07:22	13.8	3.6	03:05-07:55	WEST	03:05-04:00	WEST
	14:48	2.6	11.2	07:55-09:15	EAST	07:05-07:55	WEST
	22:14	14.4	11.8	21:15-22:35	WEST	07:55-08:35	EAST
				22:35-04:05	EAST	21:55-22:35	WEST
						22:35-23:20	EAST
2010/04/04	03:27	10.8	3.6	04:05-08:30	WEST	03:00-04:05	EAST
	07:55	12.8	2.0	08:30-10:10	EAST	04:05-05:20	WEST
	15:34	3.3	9.5	22:00-23:35	WEST	07:20-08:30	WEST
	23:16	14.1	10.8	23:35-05:10	EAST	08:30-09:20	EAST
						22:50-23:35	WEST
						23:35-00:35	EAST
2010/04/05	04:52	11.2	2.9	05:10-09:15	WEST	03:50-05:10	EAST
	08:33	12.1	0.9	09:15-11:15	EAST	05:10-09:15	WEST
	16:24	4.3	7.8	22:50-00:40	WEST	09:15-10:15	EAST
						23:45-00:40	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/06	00:17	14.1	9.8	00:40-06:35	EAST	00:40-01:50	EAST
	06:31	10.8	3.3	06:35-10:10	WEST	04:55-06:35	EAST
	09:26	11.5	0.7	10:10-12:50	EAST	06:35-10:10	WEST
	17:20	4.9	6.6	23:45-01:40	WEST	10:10-11:30	EAST
2010/04/07	01:14	13.8	8.9	01:40-08:00	EAST	00:45-01:40	WEST
	07:50	10.2	3.6	08:00-11:35	WEST	01:40-02:45	EAST
	10:52	10.8	0.6	11:35-14:30	EAST	06:20-08:00	EAST
	18:23	5.6	5.2			08:00-11:35	WEST
						11:35-12:55	EAST
2010/04/08	02:03	13.8	8.2	00:40-02:30	WEST	01:40-02:30	WEST
	08:38	9.5	4.3	02:30-09:00	EAST	02:30-03:30	EAST
	12:48	10.5	1.0	09:00-13:10	WEST	07:40-09:00	EAST
	19:28	6.2	4.3	13:10-15:55	EAST	09:00-13:10	WEST
				21:10-21:40	WEST	13:10-14:20	EAST
2010/04/09	02:43	13.8	7.6	01:30-03:10	WEST	02:25-03:10	WEST
	09:14	8.5	5.3	03:10-05:15	EAST	03:10-04:00	EAST
	14:22	10.8	2.3	07:20-09:40	EAST	08:40-09:40	EAST
	20:27	6.6	4.2	09:40-14:30	WEST	09:40-11:00	WEST
				14:30-16:50	EAST	13:15-14:30	WEST
						14:30-15:30	EAST
2010/04/10	03:16	13.8	7.2	02:10-03:45	WEST	03:00-03:45	WEST
	09:46	7.5	6.3	03:45-05:20	EAST	03:45-04:25	EAST
	15:26	11.5	4.0	08:25-10:15	EAST	09:25-10:15	EAST
	21:18	6.9	4.6	10:15-15:35	WEST	10:15-11:10	WEST
				15:35-17:35	EAST	14:40-15:35	WEST
				19:50-20:40	EAST	15:35-16:30	EAST
				21:55-23:15	WEST	21:55-22:25	WEST
2010/04/11	03:44	13.8	6.9	02:40-04:10	WEST	03:30-04:10	WEST
	10:16	6.6	7.2	04:10-05:35	EAST	04:10-04:50	EAST
	16:17	12.1	5.5			11:15-11:25	WEST
	22:01	7.2	4.9	11:15-12:30	WEST	15:45-16:30	WEST
				14:40-16:30	WEST	16:30-17:20	EAST
				16:30-18:20	EAST	21:40-22:25	EAST
				20:40-22:25	EAST	22:25-23:05	WEST
				22:25-00:00	WEST		

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

OPERATIONAL TIME FRAMES

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/12	04:08	13.5	6.3	03:05-04:35	WEST	03:55-04:35	WEST
	10:46	5.6	7.9	04:35-05:55	EAST	04:35-05:10	EAST
	17:02	12.8	7.2			16:40-17:20	WEST
	22:40	7.9	4.9	15:50-17:20	WEST	17:20-18:05	EAST
				17:20-19:00	EAST	22:25-23:05	EAST
				21:25-23:05	EAST	23:05-23:50	WEST
				23:05-00:45	WEST		
2010/04/13	04:30	13.8	5.9	03:25-04:55	WEST	04:15-04:55	WEST
	11:16	4.6	9.2	04:55-06:10	EAST	04:55-05:30	EAST
	17:45	13.5	8.9	16:45-18:10	WEST	17:30-18:10	WEST
	23:16	8.2	5.3	18:10-19:45	EAST	18:10-18:50	EAST
				22:00-23:45	EAST	23:00-23:45	EAST
				23:45-01:30	WEST	23:45-00:30	WEST
2010/04/14	04:52	13.8	5.6	03:40-05:15	WEST	04:35-05:15	WEST
	11:47	3.9	9.9	05:15-06:30	EAST	05:15-05:50	EAST
	18:28	13.8	9.9	17:35-18:55	WEST	18:15-18:55	WEST
	23:52	8.9	4.9	18:55-20:30	EAST	18:55-19:35	EAST
				22:35-00:25	EAST	23:40-00:25	EAST
2010/04/15	05:15	13.8	4.9	00:25-02:30	WEST	00:25-01:15	WEST
	12:20	3.0	10.8	03:45-05:35	WEST	04:55-05:35	WEST
	19:13	14.1	11.1	05:35-06:50	EAST	05:35-06:15	EAST
				18:25-19:40	WEST	19:05-19:40	WEST
				19:40-21:20	EAST	19:40-20:20	EAST
			23:05-01:05	EAST			
2010/04/16	00:29	9.8	4.3	01:05-06:00	WEST	00:15-01:05	EAST
	05:40	13.8	4.0	06:00-07:15	EAST	01:05-01:55	WEST
	12:55	2.6	11.2	19:10-20:25	WEST	05:15-06:00	WEST
	20:00	14.4	11.8	20:25-22:25	EAST	06:00-06:40	EAST
				23:30-01:45	EAST	19:50-20:25	WEST
					20:25-21:05	EAST	
2010/04/17	01:10	10.2	4.2	01:45-06:30	WEST	00:50-01:45	EAST
	06:06	13.8	3.6	06:30-07:50	EAST	01:45-02:40	WEST
	13:32	2.3	11.5	19:55-21:15	WEST	05:40-06:30	WEST
	20:51	14.4	12.1	21:15-02:25	EAST	06:30-07:10	EAST
						20:35-21:15	WEST
					21:15-22:00	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/18	01:56	10.8	3.6	02:25-07:05	WEST	01:30-02:25	EAST
	06:36	13.5	2.7	07:05-08:30	EAST	02:25-03:30	WEST
	14:14	2.3	11.2	20:45-22:10	WEST	06:10-07:05	WEST
	21:46	14.4	12.1	22:10-03:15	EAST	07:05-07:45	EAST
							21:25-22:10
						22:10-23:00	EAST
2010/04/19	02:53	11.2	3.2	03:15-07:45	WEST	02:10-03:15	EAST
	07:12	13.1	1.9	07:45-09:20	EAST	03:15-04:35	WEST
	15:00	2.3	10.8	21:35-23:05	WEST	06:40-07:45	WEST
	22:43	14.4	12.1	23:05-04:20	EAST	07:45-08:35	EAST
							22:20-23:05
						23:05-00:05	EAST
2010/04/20	04:07	11.2	3.2	04:20-08:40	WEST	03:05-04:20	EAST
	08:01	12.5	1.3	08:40-10:20	EAST	04:20-05:55	WEST
	15:53	3.0	9.5	22:35-00:05	WEST	07:15-08:40	WEST
	23:40	14.4	11.4			08:40-09:30	EAST
						23:20-00:05	WEST
2010/04/21	05:37	10.8	3.6	00:05-05:40	EAST	00:05-01:05	EAST
	09:16	11.8	1.0	05:40-09:50	WEST	04:20-05:40	EAST
	16:52	3.6	8.2	09:50-11:45	EAST	05:40-09:50	WEST
				23:30-01:05	WEST	09:50-10:45	EAST
2010/04/22	00:34	14.8	11.2	01:05-07:00	EAST	00:20-01:05	WEST
	06:56	9.8	5.0	07:00-11:25	WEST	01:05-01:55	EAST
	10:54	11.2	1.4	11:25-13:20	EAST	05:50-07:00	EAST
	17:58	4.3	6.9			07:00-08:40	WEST
						09:50-11:25	WEST
						11:25-12:20	EAST
2010/04/23	01:23	14.8	10.5	00:30-01:55	WEST	01:15-01:55	WEST
	07:55	8.5	6.3	01:55-03:35	EAST	01:55-02:35	EAST
	12:39	11.2	2.7	06:10-08:10	EAST	07:15-08:10	EAST
	19:06	5.2	6.0	08:10-13:10	WEST	08:10-09:10	WEST
				13:10-14:55	EAST	12:10-13:10	WEST
					13:10-14:00	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/24	02:05	14.8	9.6	01:20-02:35	WEST	02:00-02:35	WEST
	08:44	6.9	7.9	02:35-03:55	EAST	02:35-03:10	EAST
	14:16	11.5	4.6	07:35-08:25	EAST	09:05-09:45	WEST
	20:12	6.2	5.3	09:05-10:50	WEST	14:00-14:40	WEST
				12:55-14:40	WEST	14:40-15:25	EAST
				14:40-16:15	EAST		
				21:35-22:05	WEST		
2010/04/25	02:42	14.8	8.6	02:00-03:10	WEST	02:40-03:10	WEST
	09:28	5.2	9.6	03:10-04:20	EAST	03:10-03:45	EAST
	15:33	12.5	7.3	14:40-16:00	WEST	15:25-16:00	WEST
	21:12	7.2	5.3	16:00-17:25	EAST	16:00-16:40	EAST
				20:25-21:45	EAST	21:10-21:45	EAST
				21:45-23:05	WEST	21:45-22:25	WEST
2010/04/26	03:17	14.8	7.6	02:35-03:45	WEST	03:15-03:45	WEST
	10:10	3.9	10.9	03:45-04:50	EAST	03:45-04:15	EAST
	16:38	13.5	9.6	16:00-17:10	WEST	16:35-17:10	WEST
	22:07	8.2	5.3	17:10-18:25	EAST	17:10-17:40	EAST
				21:20-22:45	EAST	22:05-22:45	EAST
			22:45-00:05	WEST	22:45-23:20	WEST	
2010/04/27	03:51	14.8	6.6	03:05-04:20	WEST	03:50-04:20	WEST
	10:51	2.6	12.2	04:20-05:20	EAST	04:20-04:50	EAST
	17:36	14.1	11.5	17:05-18:05	WEST	17:35-18:05	WEST
	22:58	8.9	5.2	18:05-19:25	EAST	18:05-18:40	EAST
				22:10-23:35	EAST	23:00-23:35	EAST
			23:35-01:05	WEST	23:35-00:15	WEST	
2010/04/28	04:25	14.4	5.5	03:30-04:50	WEST	04:20-04:50	WEST
	11:32	1.6	12.8	04:50-05:55	EAST	04:50-05:20	EAST
	18:29	14.8	13.2	18:00-19:00	WEST	18:30-19:00	WEST
	23:47	9.5	5.3	19:00-20:20	EAST	19:00-19:35	EAST
			22:55-00:30	EAST	23:50-00:30	EAST	
2010/04/29	04:58	14.4	4.9	00:30-02:20	WEST	00:30-01:10	WEST
	12:13	1.3	13.1	03:45-05:25	WEST	04:45-05:25	WEST
	19:20	15.1	13.8	05:25-06:30	EAST	05:25-05:55	EAST
				18:50-19:55	WEST	19:20-19:55	WEST
				19:55-21:15	EAST	19:55-20:25	EAST
			23:40-01:20	EAST			

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/04/30	00:35	10.2	4.9	01:20-06:00	WEST	00:35-01:20	EAST
	05:32	13.8	3.6	06:00-07:10	EAST	01:20-02:10	WEST
	12:53	1.6	12.2	19:35-20:40	WEST	05:15-06:00	WEST
	20:09	15.1	13.5	20:40-22:15	EAST	06:00-06:35	EAST
						20:10-20:40	WEST
						20:40-21:20	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS May 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/05/01	01:26	10.5	4.6	00:15-02:10	EAST	01:20-02:10	EAST
	06:06	13.5	3.0	02:10-06:35	WEST	02:10-03:10	WEST
	13:33	2.0	11.5	06:35-07:55	EAST	05:40-06:35	WEST
	20:58	15.1	13.1	20:15-21:30	WEST	06:35-07:15	EAST
				21:30-23:15	EAST	20:55-21:30	WEST
						21:30-22:10	EAST
2010/05/02	02:21	10.8	4.3	00:50-03:05	EAST	02:10-03:05	EAST
	06:40	12.8	2.0	03:05-07:10	WEST	03:05-04:25	WEST
	14:13	2.3	10.5	07:10-08:40	EAST	06:00-07:10	WEST
	21:46	14.8	12.5	20:55-22:15	WEST	07:10-07:55	EAST
				22:15-00:30	EAST	21:35-22:15	WEST
						22:15-23:00	EAST
2010/05/03	03:26	10.8	4.0	01:10-04:05	EAST	02:55-04:05	EAST
	07:17	12.1	1.3	04:05-07:50	WEST	04:05-07:50	WEST
	14:54	3.3	8.8	07:50-09:40	EAST	07:50-08:45	EAST
	22:35	14.8	11.5	21:35-23:00	WEST	22:20-23:00	WEST
				23:00-05:05	EAST	23:00-23:50	EAST
2010/05/04	04:44	10.5	4.3	05:05-08:40	WEST	03:50-05:05	EAST
	08:02	11.5	1.0	08:40-10:50	EAST	05:05-08:40	WEST
	15:36	4.3	7.2	22:15-23:50	WEST	08:40-09:45	EAST
	23:22	14.4	10.1	23:50-06:20	EAST	23:05-23:50	WEST
						23:50-00:40	EAST
2010/05/05	06:05	10.2	4.2	06:20-09:45	WEST	04:55-06:20	EAST
	09:05	10.5	0.3	09:45-12:25	EAST	06:20-09:45	WEST
	16:21	5.2	5.3	22:55-00:35	WEST	09:45-11:00	EAST
						23:45-00:35	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/05/06	00:07	14.1	8.9	00:35-03:00	EAST	00:35-01:25	EAST
	07:09	9.2	4.9	04:15-07:25	EAST	06:05-07:25	EAST
	10:39	9.8	0.6	07:25-11:10	WEST	07:25-11:10	WEST
	17:12	6.2	3.6	11:10-15:25	EAST	11:10-12:30	EAST
				18:50-19:40	WEST		
				23:30-01:15	WEST		
2010/05/07	00:47	14.1	7.9	01:15-03:15	EAST	00:30-01:15	WEST
	07:54	8.2	5.9	05:45-08:15	EAST	01:15-02:05	EAST
	12:40	9.8	1.6	08:15-12:50	WEST	07:05-08:15	EAST
	18:12	7.2	2.6	12:50-18:50	EAST	08:15-12:50	WEST
				18:50-20:45	WEST	12:50-14:10	EAST
						17:45-18:50	EAST
					18:50-19:45	WEST	
2010/05/08	01:23	13.8	6.6	00:10-01:50	WEST	01:05-01:50	WEST
	08:30	7.2	6.6	01:50-03:35	EAST	01:50-02:40	EAST
	14:18	10.5	3.3	06:55-08:55	EAST	08:00-08:55	EAST
	19:20	8.2	2.3	08:55-14:20	WEST	08:55-10:00	WEST
				14:20-19:50	EAST	13:05-14:20	WEST
				19:50-21:50	WEST	14:20-15:30	EAST
					18:45-19:50	EAST	
					19:50-20:45	WEST	
2010/05/09	01:55	13.8	5.6	00:40-02:25	WEST	01:40-02:25	WEST
	09:03	6.2	7.6	02:25-04:00	EAST	02:25-03:10	EAST
	15:24	11.5	5.3	10:40-11:40	WEST	14:35-15:30	WEST
	20:24	8.9	2.6	13:05-15:30	WEST	15:30-16:35	EAST
				15:30-20:45	EAST	19:40-20:45	EAST
				20:45-22:55	WEST	20:45-21:40	WEST
2010/05/10	02:24	13.5	4.6	01:00-02:50	WEST	02:10-02:50	WEST
	09:35	4.9	8.6	02:50-04:20	EAST	02:50-03:35	EAST
	16:17	12.1	7.2	14:45-16:30	WEST	15:40-16:30	WEST
	21:18	9.2	2.9	16:30-21:40	EAST	16:30-17:30	EAST
				21:40-00:10	WEST	20:40-21:40	EAST
						21:40-22:35	WEST
2010/05/11	02:52	13.5	4.3	01:10-03:20	WEST	02:30-03:20	WEST
	10:07	3.9	9.6	03:20-04:40	EAST	03:20-04:00	EAST
	17:03	13.1	9.2	15:55-17:25	WEST	16:40-17:25	WEST
	22:06	9.8	3.3	17:25-22:35	EAST	17:25-18:15	EAST
				22:35-03:45	WEST	21:35-22:35	EAST
						22:35-23:30	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/05/12	03:20	13.5	3.7	03:45-05:05	EAST	02:55-03:45	WEST
	10:40	3.0	10.5	16:50-18:10	WEST	03:45-04:25	EAST
	17:47	13.8	10.8	18:10-23:20	EAST	17:30-18:10	WEST
	22:49	10.2	3.6	23:20-04:10	WEST	18:10-19:00	EAST
							22:25-23:20
						23:20-00:20	WEST
2010/05/13	03:49	13.8	3.6	04:10-05:30	EAST	03:20-04:10	WEST
	11:15	2.3	11.5	17:40-18:55	WEST	04:10-04:50	EAST
	18:31	14.4	12.1	18:55-00:10	EAST	18:20-18:55	WEST
	23:31	10.5	3.9			18:55-19:40	EAST
						23:10-00:10	EAST
2010/05/14	04:19	13.8	3.3	00:10-04:40	WEST	00:10-01:10	WEST
	11:52	1.6	12.2	04:40-06:00	EAST	03:50-04:40	WEST
	19:14	14.8	13.2	18:30-19:40	WEST	04:40-05:20	EAST
				19:40-00:55	EAST	19:05-19:40	WEST
						19:40-20:25	EAST
						23:55-00:55	EAST
2010/05/15	00:15	10.8	4.0	00:55-05:15	WEST	00:55-01:55	WEST
	04:52	13.8	3.0	05:15-06:35	EAST	04:20-05:15	WEST
	12:31	1.3	12.5	19:15-20:25	WEST	05:15-05:55	EAST
	19:58	15.1	13.8	20:25-01:40	EAST	19:50-20:25	WEST
						20:25-21:05	EAST
2010/05/16	01:02	11.2	3.9	01:40-05:55	WEST	00:45-01:40	EAST
	05:29	13.8	2.6	05:55-07:15	EAST	01:40-02:45	WEST
	13:12	1.0	12.8	20:00-21:10	WEST	05:00-05:55	WEST
	20:44	15.1	14.1	21:10-23:20	EAST	05:55-06:40	EAST
				23:55-02:30	EAST	20:35-21:10	WEST
						21:10-21:55	EAST
2010/05/17	01:56	11.2	3.9	02:30-06:45	WEST	01:30-02:30	EAST
	06:13	13.5	2.3	06:45-08:05	EAST	02:30-03:40	WEST
	13:56	1.3	12.2	20:45-21:55	WEST	05:45-06:45	WEST
	21:30	15.1	13.8	21:55-00:00	EAST	06:45-07:25	EAST
						21:20-21:55	WEST
						21:55-22:40	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES				
				2 KNOT CURRENT		1 KNOT CURRENT		
				PERIOD	DIR	PERIOD	DIR	
2010/05/18	02:59	10.8	4.3	01:00-03:25	EAST	02:25-03:25	EAST	
	07:06	12.8	2.0	03:25-07:40	WEST	03:25-04:40	WEST	
	14:43	2.0	10.8	07:40-09:05	EAST	06:35-07:40	WEST	
	22:16	15.4	13.4	21:30-22:45	WEST	07:40-08:20	EAST	
				22:45-00:35	EAST	22:10-22:45	WEST	
						22:45-23:25	EAST	
2010/05/19	04:13	10.5	4.9	02:15-04:30	EAST	03:30-04:30	EAST	
	08:14	11.8	1.3	04:30-08:40	WEST	04:30-05:45	WEST	
	15:32	3.0	8.8	08:40-10:15	EAST	07:30-08:40	WEST	
	23:01	15.4	12.4	22:15-23:30	WEST	08:40-09:30	EAST	
				23:30-01:10	EAST	22:55-23:30	WEST	
						23:30-00:10	EAST	
2010/05/20	05:26	9.5	5.9	03:35-05:40	EAST	04:45-05:40	EAST	
	09:39	11.2	1.7	05:40-10:00	WEST	05:40-06:55	WEST	
	16:26	4.3	6.9	10:00-11:45	EAST	08:50-10:00	WEST	
	23:45	15.1	10.8	23:00-00:15	WEST	10:00-10:55	EAST	
						23:40-00:15	WEST	
2010/05/21	06:31	7.9	7.2	00:15-01:40	EAST	00:15-00:55	EAST	
	11:17	10.5	2.6	05:00-06:50	EAST	06:00-06:50	EAST	
	17:25	5.6	4.9	06:50-11:40	WEST	06:50-07:50	WEST	
				11:40-13:40	EAST	10:40-11:40	WEST	
							11:40-12:35	EAST
							23:40-00:55	WEST
2010/05/22	00:26	15.1	9.5	00:55-02:15	EAST	00:20-00:55	WEST	
	07:26	6.6	8.5	08:40-09:55	WEST	00:55-01:30	EAST	
	13:04	10.8	4.2	11:10-13:25	WEST	12:35-13:25	WEST	
	18:31	7.2	3.6	13:25-15:45	EAST	13:25-14:20	EAST	
				16:55-19:05	EAST	18:20-19:05	EAST	
				19:05-20:40	WEST	19:05-19:50	WEST	
2010/05/23	01:05	15.1	7.9	00:15-01:35	WEST	01:00-01:35	WEST	
	08:15	4.9	10.2	01:35-02:50	EAST	01:35-02:10	EAST	
	14:38	11.8	6.9	13:25-15:00	WEST	14:15-15:00	WEST	
	19:41	8.5	3.3	15:00-20:15	EAST	15:00-15:55	EAST	
				20:15-21:55	WEST	19:25-20:15	EAST	
						20:15-21:00	WEST	

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YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/05/24	01:43	14.8	6.3	00:45-02:15	WEST	01:35-02:15	WEST
	09:00	3.6	11.2	02:15-03:25	EAST	02:15-02:45	EAST
	15:52	12.8	9.2	15:00-16:20	WEST	15:40-16:20	WEST
	20:50	9.5	3.3	16:20-21:25	EAST	16:20-17:05	EAST
				21:25-23:20	WEST	20:30-21:25	EAST
						21:25-22:10	WEST
2010/05/25	02:21	14.4	4.9	01:10-02:50	WEST	02:10-02:50	WEST
	09:44	2.3	12.1	02:50-04:00	EAST	02:50-03:25	EAST
	16:53	13.8	11.5	16:10-17:25	WEST	16:50-17:25	WEST
	21:52	10.2	3.6	17:25-22:30	EAST	17:25-18:10	EAST
				22:30-03:25	WEST	21:35-22:30	EAST
						22:30-23:20	WEST
2010/05/26	02:59	14.1	3.9	03:25-04:35	EAST	02:40-03:25	WEST
	10:27	1.6	12.5	17:10-18:20	WEST	03:25-04:00	EAST
	17:45	14.4	12.8	18:20-20:25	EAST	17:45-18:20	WEST
	22:48	10.8	3.6	21:05-23:30	EAST	18:20-19:00	EAST
				23:30-04:00	WEST	22:35-23:30	EAST
						23:30-00:30	WEST
2010/05/27	03:37	14.1	3.3	04:00-05:15	EAST	03:10-04:00	WEST
	11:09	1.3	12.8	18:00-19:10	WEST	04:00-04:40	EAST
	18:31	14.8	13.5	19:10-21:00	EAST	18:35-19:10	WEST
	23:39	10.8	4.0	22:10-00:25	EAST	19:10-19:50	EAST
						23:30-00:25	EAST
2010/05/28	04:16	13.8	3.0	00:25-04:40	WEST	00:25-01:30	WEST
	11:50	1.3	12.5	04:40-05:55	EAST	03:40-04:40	WEST
	19:14	15.1	13.8	18:45-19:50	WEST	04:40-05:20	EAST
				19:50-21:40	EAST	19:20-19:50	WEST
				23:00-01:20	EAST	19:50-20:30	EAST
2010/05/29	00:28	10.8	4.3	01:20-05:15	WEST	00:20-01:20	EAST
	04:55	13.5	2.7	05:15-06:40	EAST	01:20-02:35	WEST
	12:30	1.6	11.9	19:25-20:30	WEST	04:10-05:15	WEST
	19:55	15.1	13.5	20:30-22:20	EAST	05:15-06:00	EAST
				23:50-02:10	EAST	20:00-20:30	WEST
						20:30-21:10	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/05/30	01:18	10.8	4.3	02:10-06:00	WEST	01:10-02:10	EAST
	05:34	13.1	2.3	06:00-07:30	EAST	02:10-03:40	WEST
	13:08	2.0	11.1	20:00-21:10	WEST	04:35-06:00	WEST
	20:35	15.1	13.1	21:10-23:00	EAST	06:00-06:45	EAST
							20:35-21:10
						21:10-21:50	EAST
2010/05/31	02:10	10.8	4.3	00:35-03:00	EAST	01:55-03:00	EAST
	06:14	12.5	1.7	03:00-06:40	WEST	03:00-06:40	WEST
	13:45	2.6	9.9	06:40-08:20	EAST	06:40-07:30	EAST
	21:14	15.1	12.5	20:35-21:45	WEST	21:10-21:45	WEST
				21:45-23:35	EAST	21:45-22:30	EAST

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PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS June 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/01	03:08	10.5	4.6	01:25-03:50	EAST	02:45-03:50	EAST
	06:58	11.8	1.3	03:50-07:30	WEST	03:50-07:30	WEST
	14:20	3.3	8.5	07:30-09:15	EAST	07:30-08:25	EAST
	21:51	14.8	11.5	21:05-22:20	WEST	21:45-22:20	WEST
				22:20-00:10	EAST	22:20-23:05	EAST
2010/06/02	04:10	10.2	4.6	02:15-04:40	EAST	03:35-04:40	EAST
	07:50	11.2	1.0	04:40-08:20	WEST	04:40-08:20	WEST
	14:55	4.3	6.9	08:20-10:25	EAST	08:20-09:20	EAST
	22:26	14.8	10.5	21:35-22:55	WEST	22:15-22:55	WEST
				22:55-00:45	EAST	22:55-23:40	EAST
2010/06/03	05:13	9.2	5.6	03:15-05:35	EAST	04:30-05:35	EAST
	08:57	10.5	1.3	05:35-09:25	WEST	05:35-09:25	WEST
	15:31	5.6	4.9	09:25-11:55	EAST	09:25-10:30	EAST
	22:59	14.4	8.8	22:00-23:30	WEST	22:50-23:30	WEST
				23:30-01:15	EAST	23:30-00:15	EAST
2010/06/04	06:08	8.2	6.2	04:15-06:30	EAST	05:25-06:30	EAST
	10:23	9.8	1.6	06:30-10:45	WEST	06:30-10:45	WEST
	16:11	6.9	2.9	10:45-15:15	EAST	10:45-12:00	EAST
	23:31	14.1	7.2	17:05-18:35	WEST	17:05-17:40	WEST
				22:25-00:05	WEST	23:20-00:05	WEST
2010/06/05	06:54	7.2	6.9	00:05-01:45	EAST	00:05-00:45	EAST
	12:16	9.8	2.6	05:15-07:20	EAST	06:20-07:20	EAST
	17:00	7.9	1.9	07:20-12:20	WEST	07:20-08:40	WEST
				12:20-17:35	EAST	10:45-12:20	WEST
				17:35-19:50	WEST	12:20-13:55	EAST
				22:45-00:35	WEST	16:20-17:35	EAST
						17:35-18:40	WEST
						23:50-00:35	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/06	00:01	14.1	6.2	00:35-02:10	EAST	00:35-01:20	EAST
	07:35	6.2	7.9	09:10-14:00	WEST	12:40-14:00	WEST
	14:02	10.5	4.3	14:00-18:35	EAST	14:00-16:05	EAST
	18:04	9.2	1.3	18:35-21:20	WEST	16:35-18:35	EAST
				22:50-01:05	WEST	18:35-19:45	WEST
2010/06/07	00:33	13.8	4.6	01:05-02:40	EAST	00:15-01:05	WEST
	08:12	5.2	8.6			01:05-01:50	EAST
	15:14	11.5	6.3	13:00-15:25	WEST	14:15-15:25	WEST
	19:20	10.2	1.3	15:25-19:45	EAST	15:25-19:45	EAST
			19:45-01:35	WEST	19:45-21:00	WEST	
2010/06/08	01:06	13.8	3.6	01:35-03:10	EAST	00:40-01:35	WEST
	08:49	4.3	9.5	14:35-16:30	WEST	01:35-02:20	EAST
	16:10	12.5	8.2	16:30-20:55	EAST	15:30-16:30	WEST
	20:31	10.8	1.7	20:55-02:05	WEST	16:30-18:00	EAST
					19:10-20:55	EAST	
					20:55-22:10	WEST	
2010/06/09	01:40	13.8	3.0	02:05-03:35	EAST	01:05-02:05	WEST
	09:27	3.3	10.5	15:45-17:20	WEST	02:05-02:50	EAST
	16:58	13.5	10.2	17:20-22:00	EAST	16:30-17:20	WEST
	21:32	11.2	2.3	22:00-02:40	WEST	17:20-18:30	EAST
						20:35-22:00	EAST
					22:00-23:15	WEST	
2010/06/10	02:16	13.8	2.6	02:40-04:10	EAST	01:40-02:40	WEST
	10:07	2.3	11.5	16:40-18:05	WEST	02:40-03:25	EAST
	17:42	14.1	11.8	18:05-22:55	EAST	17:25-18:05	WEST
	22:24	11.5	2.6	22:55-03:20	WEST	18:05-19:05	EAST
						21:45-22:55	EAST
					22:55-00:10	WEST	
2010/06/11	02:56	13.8	2.3	03:20-04:45	EAST	02:20-03:20	WEST
	10:48	1.3	12.5	17:35-18:50	WEST	03:20-04:05	EAST
	18:23	14.8	13.5	18:50-23:50	EAST	18:10-18:50	WEST
	23:13	11.5	3.3	23:50-04:05	WEST	18:50-19:40	EAST
						22:45-23:50	EAST
					23:50-01:00	WEST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/12	03:39	14.1	2.6	04:05-05:25	EAST	03:05-04:05	WEST
	11:30	1.0	13.1	18:20-19:30	WEST	04:05-04:45	EAST
	19:04	15.1	14.1	19:30-00:40	EAST	18:55-19:30	WEST
						19:30-20:15	EAST
						23:40-00:40	EAST
2010/06/13	00:01	11.5	3.6	00:40-04:55	WEST	00:40-01:45	WEST
	04:26	14.1	2.6	04:55-06:10	EAST	04:00-04:55	WEST
	12:14	0.7	13.4	19:05-20:10	WEST	04:55-05:35	EAST
	19:43	15.4	14.7	20:10-21:55	EAST	19:40-20:10	WEST
					23:20-01:30	EAST	
2010/06/14	00:53	11.2	4.2	01:30-05:45	WEST	00:35-01:30	EAST
	05:19	13.8	2.6	05:45-07:00	EAST	01:30-02:30	WEST
	12:57	0.7	13.1	19:50-20:55	WEST	04:55-05:45	WEST
	20:22	15.4	14.7	20:55-22:20	EAST	05:45-06:25	EAST
					20:20-20:55	WEST	
						20:55-21:30	EAST
2010/06/15	01:49	10.8	4.6	00:30-02:20	EAST	01:35-02:20	EAST
	06:17	13.5	2.7	02:20-06:45	WEST	02:20-03:15	WEST
	13:42	1.3	12.2	06:45-07:55	EAST	05:55-06:45	WEST
	21:01	15.7	14.4	20:30-21:30	WEST	06:45-07:20	EAST
					21:30-22:50	EAST	
						21:00-21:30	WEST
						21:30-22:05	EAST
2010/06/16	02:50	9.8	5.9	01:40-03:20	EAST	02:30-03:20	EAST
	07:21	12.5	2.7	03:20-07:45	WEST	03:20-04:10	WEST
	14:26	2.3	10.2	07:45-09:00	EAST	06:55-07:45	WEST
	21:39	15.7	13.4	21:10-22:10	WEST	07:45-08:25	EAST
					22:10-23:25	EAST	
						21:40-22:10	WEST
						22:10-22:40	EAST
2010/06/17	03:53	8.9	6.8	02:45-04:15	EAST	03:35-04:15	EAST
	08:33	11.8	2.9	04:15-08:55	WEST	04:15-05:10	WEST
	15:11	3.6	8.2	08:55-10:20	EAST	08:05-08:55	WEST
	22:17	15.7	12.1	21:45-22:50	WEST	08:55-09:35	EAST
					22:50-00:00	EAST	
						22:20-22:50	WEST
						22:50-23:20	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/18	04:57	7.5	8.2	03:50-05:20	EAST	04:35-05:20	EAST
	09:56	11.2	3.7	05:20-10:20	WEST	05:20-06:05	WEST
	15:59	5.2	6.0	10:20-11:55	EAST	09:30-10:20	WEST
	22:55	15.4	10.2	22:15-23:25	WEST	10:20-11:05	EAST
				23:25-00:35	EAST	22:55-23:25	WEST
						23:25-23:55	EAST
2010/06/19	05:56	6.2	9.2	07:25-08:15	WEST	11:05-11:55	WEST
	11:35	10.8	4.6	09:50-11:55	WEST	11:55-12:50	EAST
	16:55	7.2	3.6	11:55-14:25	EAST	16:40-17:25	EAST
	23:32	15.1	7.9	15:05-17:25	EAST	17:25-18:10	WEST
				17:25-18:55	WEST	23:25-00:00	WEST
			22:45-00:00	WEST			
2010/06/20	06:51	4.9	10.2	00:00-01:15	EAST	00:00-00:35	EAST
	13:23	11.5	6.6	11:50-13:40	WEST	12:50-13:40	WEST
	18:01	8.9	2.6	13:40-18:30	EAST	13:40-14:45	EAST
				18:30-20:30	WEST	17:25-18:30	EAST
				23:05-00:40	WEST	18:30-19:25	WEST
2010/06/21	00:10	14.8	5.9	00:40-01:55	EAST	00:00-00:40	WEST
	07:42	3.6	11.2	13:35-15:20	WEST	00:40-01:15	EAST
	14:53	12.5	8.9	15:20-19:50	EAST	14:30-15:20	WEST
	19:21	10.5	2.0	19:50-01:20	WEST	15:20-16:30	EAST
						18:30-19:50	EAST
					19:50-20:50	WEST	
2010/06/22	00:50	14.4	3.9	01:20-02:40	EAST	00:30-01:20	WEST
	08:32	2.6	11.8	15:00-16:35	WEST	01:20-02:00	EAST
	16:03	13.5	10.9	16:35-21:10	EAST	15:50-16:35	WEST
	20:39	11.2	2.3	21:10-02:00	WEST	16:35-17:40	EAST
						19:55-21:10	EAST
					21:10-22:25	WEST	
2010/06/23	01:33	14.1	2.9	02:00-03:25	EAST	01:05-02:00	WEST
	09:20	2.3	11.8	16:10-17:30	WEST	02:00-02:40	EAST
	16:58	14.1	11.8	17:30-22:25	EAST	16:50-17:30	WEST
	21:47	11.5	2.6	22:25-02:45	WEST	17:30-18:30	EAST
						21:15-22:25	EAST
					22:25-23:50	WEST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/24	02:18	13.8	2.3	02:45-04:10	EAST	01:35-02:45	WEST
	10:07	2.0	11.8	17:05-18:20	WEST	02:45-03:25	EAST
	17:43	14.4	12.4	18:20-23:30	EAST	17:40-18:20	WEST
	22:43	11.5	2.9	23:30-03:25	WEST	18:20-19:10	EAST
							22:25-23:30
						23:30-01:05	WEST
2010/06/25	03:05	13.5	2.0	03:25-04:55	EAST	02:05-03:25	WEST
	10:51	1.6	11.9	17:50-19:00	WEST	03:25-04:15	EAST
	18:22	14.8	13.2	19:00-00:25	EAST	18:25-19:00	WEST
	23:32	11.2	3.6			19:00-19:45	EAST
						23:20-00:25	EAST
2010/06/26	03:52	13.5	2.3	00:25-04:10	WEST	00:25-02:05	WEST
	11:33	1.6	11.9	04:10-05:45	EAST	02:40-04:10	WEST
	18:58	14.8	13.2	18:25-19:40	WEST	04:10-05:00	EAST
				19:40-21:40	EAST	19:00-19:40	WEST
				22:35-01:10	EAST	19:40-20:20	EAST
2010/06/27	00:17	11.2	3.6	01:10-05:00	WEST	00:10-01:10	EAST
	04:37	13.1	1.9	05:00-06:30	EAST	01:10-02:50	WEST
	12:11	2.0	11.1	19:00-20:10	WEST	03:25-05:00	WEST
	19:33	15.1	13.1	20:10-22:00	EAST	05:00-05:45	EAST
				23:35-01:55	EAST	19:35-20:10	WEST
					20:10-20:50	EAST	
2010/06/28	01:01	10.8	4.3	01:55-05:45	WEST	00:55-01:55	EAST
	05:20	12.8	2.0	05:45-07:15	EAST	01:55-03:25	WEST
	12:46	2.3	10.5	19:30-20:40	WEST	04:20-05:45	WEST
	20:05	15.1	12.8	20:40-22:20	EAST	05:45-06:30	EAST
						20:05-20:40	WEST
					20:40-21:20	EAST	
2010/06/29	01:47	10.5	4.6	00:25-02:35	EAST	01:35-02:35	EAST
	06:05	12.5	2.0	02:35-06:30	WEST	02:35-04:00	WEST
	13:19	3.0	9.5	06:30-08:05	EAST	05:10-06:30	WEST
	20:35	14.8	11.8	20:00-21:10	WEST	06:30-07:20	EAST
				21:10-22:40	EAST	20:35-21:10	WEST
					21:10-21:45	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/06/30	02:34	9.8	5.0	01:15-03:15	EAST	02:20-03:15	EAST
	06:53	11.8	2.0	03:15-07:20	WEST	03:15-04:35	WEST
	13:50	3.9	7.9	07:20-09:00	EAST	06:00-07:20	WEST
	21:03	14.8	10.9	20:25-21:35	WEST	07:20-08:10	EAST
				21:35-23:05	EAST	21:00-21:35	WEST
						21:35-22:15	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS July 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/01	03:22	9.2	5.6	02:00-04:00	EAST	03:05-04:00	EAST
	07:47	11.2	2.0	04:00-08:10	WEST	04:00-05:15	WEST
	14:20	4.9	6.3	08:10-10:05	EAST	06:55-08:10	WEST
	21:30	14.8	9.9	20:45-22:00	WEST	08:10-09:05	EAST
				22:00-23:30	EAST	21:25-22:00	WEST
						22:00-22:40	EAST
2010/07/02	04:11	8.5	6.3	02:50-04:40	EAST	03:50-04:40	EAST
	08:48	10.5	2.0	04:40-09:10	WEST	04:40-05:55	WEST
	14:52	6.2	4.3	09:10-11:30	EAST	07:55-09:10	WEST
	21:55	14.4	8.2			09:10-10:10	EAST
				21:05-22:25	WEST	21:50-22:25	WEST
			22:25-23:55	EAST	22:25-23:05	EAST	
2010/07/03	04:59	7.5	6.9	03:35-05:25	EAST	04:35-05:25	EAST
	10:02	10.2	2.7	05:25-10:25	WEST	05:25-06:35	WEST
	15:28	7.5	2.7	10:25-15:55	EAST	09:05-10:25	WEST
	22:22	14.1	6.6	15:55-17:45	WEST	10:25-11:35	EAST
				21:15-22:55	WEST	14:55-15:55	EAST
				22:55-00:25	EAST	15:55-16:50	WEST
					22:10-22:55	WEST	
					22:55-23:35	EAST	
2010/07/04	05:46	6.6	7.5			06:55-07:15	WEST
	11:41	10.2	3.6	06:55-11:55	WEST	10:35-11:55	WEST
	16:11	8.9	1.3	11:55-16:40	EAST	11:55-13:35	EAST
	22:51	14.1	5.2	16:40-19:05	WEST	15:00-16:40	EAST
				21:20-23:20	WEST	16:40-17:45	WEST
			23:20-00:55	EAST	22:30-23:20	WEST	
					23:20-00:05	EAST	
2010/07/05	06:31	5.6	8.5	08:35-13:35	WEST	12:15-13:35	WEST
	13:34	10.8	5.2	13:35-17:30	EAST	13:35-17:30	EAST
	17:07	9.8	1.0	17:30-23:50	WEST	17:30-18:55	WEST
	23:23	13.8	4.0	23:50-01:30	EAST	22:55-23:50	WEST
					23:50-00:40	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/06	07:17	4.9	8.9	12:30-15:10	WEST	13:50-15:10	WEST
	14:55	11.8	6.9	15:10-18:45	EAST	15:10-18:45	EAST
	18:23	10.8	1.0	18:45-00:25	WEST	18:45-20:25	WEST
						23:15-00:25	WEST
2010/07/07	00:00	13.8	3.0	00:25-02:10	EAST	00:25-01:15	EAST
	08:03	3.9	9.9	14:10-16:15	WEST	15:10-16:15	WEST
	15:54	12.8	8.9	16:15-20:10	EAST	16:15-20:10	EAST
	19:49	11.5	1.3	20:10-01:10	WEST	20:10-21:55	WEST
23:50-01:10						WEST	
2010/07/08	00:42	13.8	2.3	01:10-02:50	EAST	01:10-02:00	EAST
	08:50	3.0	10.8	15:25-17:10	WEST	16:15-17:10	WEST
	16:42	13.8	10.8	17:10-21:25	EAST	17:10-18:55	EAST
	21:03	11.8	2.0	21:25-02:00	WEST	19:25-21:25	EAST
21:25-23:05						WEST	
2010/07/09	01:31	13.8	2.0	02:00-03:35	EAST	00:45-02:00	WEST
	09:38	2.0	11.8	16:25-17:50	WEST	02:00-02:50	EAST
	17:25	14.4	12.4	17:50-22:30	EAST	17:05-17:50	WEST
	22:03	11.8	2.6	22:30-02:55	WEST	17:50-18:50	EAST
21:15-22:30						EAST	
						22:30-23:50	WEST
2010/07/10	02:24	14.1	2.3	02:55-04:20	EAST	01:50-02:55	WEST
	10:26	1.3	12.8	17:15-18:30	WEST	02:55-03:40	EAST
	18:03	14.8	13.5	18:30-23:25	EAST	17:55-18:30	WEST
	22:56	11.5	3.3	23:25-03:55	WEST	18:30-19:15	EAST
22:25-23:25						EAST	
						23:25-00:30	WEST
2010/07/11	03:22	14.4	2.9	03:55-05:10	EAST	03:00-03:55	WEST
	11:13	0.7	13.7	18:00-19:05	WEST	03:55-04:30	EAST
	18:39	15.1	14.4	19:05-20:50	EAST	18:35-19:05	WEST
	23:47	11.2	3.9	22:20-00:20	EAST	19:05-19:45	EAST
23:30-00:20						EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/12	04:23	14.4	3.2	00:20-04:50	WEST	00:20-01:10	WEST
	11:58	0.7	13.7	04:50-06:00	EAST	04:10-04:50	WEST
	19:14	15.4	14.7	18:45-19:45	WEST	04:50-05:25	EAST
				19:45-21:00	EAST	19:15-19:45	WEST
				23:35-01:10	EAST	19:45-20:15	EAST
2010/07/13	00:39	10.5	4.9	01:10-03:20	WEST	00:25-01:10	EAST
	05:25	14.1	3.6	03:55-05:50	WEST	01:10-01:55	WEST
	12:41	1.0	13.1	05:50-06:55	EAST	05:15-05:50	WEST
	19:48	15.4	14.4	19:25-20:20	WEST	05:50-06:25	EAST
				20:20-21:25	EAST	19:50-20:20	WEST
					20:20-20:45	EAST	
2010/07/14	01:32	9.5	5.9	00:40-02:00	EAST	01:25-02:00	EAST
	06:28	13.5	4.0	02:00-03:40	WEST	02:00-02:40	WEST
	13:23	2.0	11.5	05:20-06:55	WEST	06:15-06:55	WEST
	20:21	15.7	13.7	06:55-08:00	EAST	06:55-07:25	EAST
				20:00-20:50	WEST	20:25-20:50	WEST
			20:50-21:55	EAST	20:50-21:20	EAST	
2010/07/15	02:27	8.2	7.5	01:40-02:55	EAST	02:20-02:55	EAST
	07:33	12.8	4.6	02:55-04:25	WEST	02:55-03:30	WEST
	14:05	3.3	9.5	06:30-08:00	WEST	07:20-08:00	WEST
	20:55	15.7	12.4	08:00-09:05	EAST	08:00-08:30	EAST
				20:30-21:25	WEST	21:00-21:25	WEST
			21:25-22:25	EAST	21:25-21:55	EAST	
2010/07/16	03:24	6.9	8.8	02:40-03:10	EAST	03:35-03:50	EAST
	08:44	12.1	5.2			03:50-04:25	WEST
	14:48	5.2	6.9	03:50-05:15	WEST	08:30-09:10	WEST
	21:29	15.7	10.5	07:40-09:10	WEST	09:10-09:45	EAST
				09:10-10:25	EAST	21:30-22:00	WEST
			21:00-22:00	WEST	22:00-22:30	EAST	
			22:00-23:00	EAST			
2010/07/17	04:21	5.9	9.8			09:50-10:30	WEST
	10:06	11.5	5.6	08:55-10:30	WEST	10:30-11:10	EAST
	15:35	7.2	4.3	10:30-12:10	EAST	15:25-16:05	EAST
	22:04	15.4	8.2	14:30-16:05	EAST	16:05-16:45	WEST
				16:05-17:25	WEST	22:00-22:35	WEST
				21:25-22:35	WEST	22:35-23:05	EAST
				22:35-23:40	EAST		

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/18	05:17	4.6	10.8	10:20-12:05	WEST	11:15-12:05	WEST
	11:46	11.5	6.9	12:05-17:00	EAST	12:05-13:00	EAST
	16:31	8.9	2.6	17:00-18:50	WEST	16:05-17:00	EAST
	22:41	14.8	5.9	21:35-23:10	WEST	17:00-17:50	WEST
				23:10-00:25	EAST	22:30-23:10	WEST
						23:10-23:45	EAST
2010/07/19	06:13	3.9	10.9	11:55-13:45	WEST	12:50-13:45	WEST
	13:27	12.1	8.2	13:45-18:10	EAST	13:45-15:10	EAST
	17:45	10.5	1.6	18:10-23:50	WEST	16:40-18:10	EAST
	23:22	14.1	3.6	23:50-01:15	EAST	18:10-19:20	WEST
						23:00-23:50	WEST
						23:50-00:30	EAST
2010/07/20	07:10	3.3	10.8	13:30-15:20	WEST	14:25-15:20	WEST
	14:51	13.1	9.8	15:20-19:40	EAST	15:20-17:15	EAST
	19:16	11.5	1.6	19:40-00:35	WEST	17:30-19:40	EAST
						19:40-21:15	WEST
						23:25-00:35	WEST
2010/07/21	00:07	13.8	2.3	00:35-02:10	EAST	00:35-01:25	EAST
	08:06	3.0	10.8	14:50-16:30	WEST	15:40-16:30	WEST
	15:55	13.8	10.8	16:30-21:15	EAST	16:30-17:45	EAST
	20:41	11.5	2.3	21:15-01:25	WEST	19:35-21:15	EAST
						21:15-01:25	WEST
2010/07/22	01:00	13.5	2.0	01:25-03:10	EAST	01:25-02:20	EAST
	08:59	2.6	10.9	15:50-17:20	WEST	16:35-17:20	WEST
	16:45	14.1	11.5	17:20-22:30	EAST	17:20-18:20	EAST
	21:46	11.5	2.6	22:30-02:25	WEST	21:10-22:30	EAST
						22:30-02:25	WEST
2010/07/23	01:58	13.1	1.6	02:25-04:05	EAST	02:25-03:15	EAST
	09:50	2.6	10.5	16:40-18:00	WEST	17:20-18:00	WEST
	17:26	14.4	11.8	18:00-23:25	EAST	18:00-18:50	EAST
	22:36	11.2	3.2	23:25-03:20	WEST	22:15-23:25	EAST
						23:25-03:20	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/24	02:56	13.1	1.9	03:20-04:55	EAST	03:20-04:10	EAST
	10:36	2.3	10.8	17:20-18:35	WEST	18:00-18:35	WEST
	18:00	14.4	12.1	18:35-00:10	EAST	18:35-19:20	EAST
	23:18	10.8	3.6			23:05-00:10	EAST
2010/07/25	03:48	13.1	2.3	00:10-04:10	WEST	00:10-01:30	WEST
	11:15	2.6	10.5	04:10-05:40	EAST	02:55-04:10	WEST
	18:31	14.4	11.8	17:55-19:05	WEST	04:10-04:55	EAST
	23:58	10.5	3.9	19:05-20:55	EAST	18:30-19:05	WEST
				22:35-00:45	EAST	19:05-19:45	EAST
					23:50-00:45	EAST	
2010/07/26	04:36	13.1	2.6	00:45-05:00	WEST	00:45-01:55	WEST
	11:51	2.6	10.5	05:00-06:30	EAST	03:55-05:00	WEST
	18:59	14.4	11.8	18:25-19:35	WEST	05:00-05:45	EAST
				19:35-21:05	EAST	19:00-19:35	WEST
				23:25-01:20	EAST	19:35-20:10	EAST
2010/07/27	00:37	9.8	4.6	01:20-05:45	WEST	00:30-01:20	EAST
	05:21	12.8	3.0	05:45-07:15	EAST	01:20-02:25	WEST
	12:23	3.3	9.5	18:50-20:00	WEST	04:45-05:45	WEST
	19:24	14.4	11.1	20:00-21:25	EAST	05:45-06:30	EAST
						19:25-20:00	WEST
					20:00-20:35	EAST	
2010/07/28	01:15	9.5	4.9	00:10-01:55	EAST	01:10-01:55	EAST
	06:06	12.5	3.0	01:55-06:30	WEST	01:55-02:55	WEST
	12:53	3.9	8.6	06:30-08:00	EAST	05:35-06:30	WEST
	19:48	14.4	10.5	19:10-20:20	WEST	06:30-07:15	EAST
				20:20-21:40	EAST	19:45-20:20	WEST
					20:20-20:55	EAST	
2010/07/29	01:54	8.9	5.5	00:50-02:30	EAST	01:45-02:30	EAST
	06:53	12.1	3.2	02:30-07:20	WEST	02:30-03:25	WEST
	13:22	4.9	7.2	07:20-08:50	EAST	06:25-07:20	WEST
	20:10	14.4	9.5	19:30-20:40	WEST	07:20-08:05	EAST
				20:40-22:00	EAST	20:05-20:40	WEST
					20:40-21:15	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/07/30	02:33	7.9	6.5	01:30-03:05	EAST	02:20-03:05	EAST
	07:43	11.8	3.9	03:05-08:10	WEST	03:05-03:55	WEST
	13:51	5.9	5.9	08:10-09:55	EAST	07:15-08:10	WEST
	20:32	14.4	8.5			08:10-08:55	EAST
				19:45-21:00	WEST	20:25-21:00	WEST
				21:00-22:20	EAST	21:00-21:40	EAST
2010/07/31	03:13	7.2	7.2	02:10-03:40	EAST	02:55-03:40	EAST
	08:38	11.5	4.3	03:40-09:05	WEST	03:40-04:30	WEST
	14:22	7.2	4.3	09:05-11:20	EAST	08:10-09:05	WEST
	20:56	14.1	6.9	12:45-14:50	EAST	09:05-09:55	EAST
				14:50-16:25	WEST	14:00-14:50	EAST
				19:55-21:20	WEST	14:50-15:30	WEST
				21:20-22:45	EAST	20:45-21:20	WEST
						21:20-22:00	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS August 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/01	03:55	6.6	7.5			05:05-05:10	WEST
	09:44	11.2	4.6	05:05-06:40	WEST	09:10-10:10	WEST
	14:57	8.2	3.0	07:30-10:10	WEST	10:10-11:15	EAST
	21:21	14.1	5.9	10:10-15:20	EAST	14:20-15:20	EAST
				15:20-17:25	WEST	15:20-16:15	WEST
				20:00-21:45	WEST	21:00-21:45	WEST
				21:45-23:15	EAST	21:45-22:25	EAST
2010/08/02	04:39	5.9	8.2	06:30-07:15	WEST	10:20-11:30	WEST
	11:10	11.2	5.3	08:50-11:30	WEST	11:30-13:15	EAST
	15:39	9.5	1.7	11:30-16:00	EAST	14:15-16:00	EAST
	21:50	13.8	4.3	16:00-22:10	WEST	16:00-17:10	WEST
				22:10-23:50	EAST	21:20-22:10	WEST
					22:10-23:00	EAST	
2010/08/03	05:28	5.2	8.6			11:45-13:05	WEST
	12:58	11.5	6.3	10:20-13:05	WEST	13:05-16:50	EAST
	16:34	10.5	1.0	13:05-16:50	EAST	16:50-18:30	WEST
	22:24	13.8	3.3	16:50-22:45	WEST	21:40-22:45	WEST
				22:45-00:35	EAST	22:45-23:40	EAST
2010/08/04	06:21	4.6	9.2	12:00-14:40	WEST	13:20-14:40	WEST
	14:24	12.5	7.9	14:40-18:10	EAST	14:40-18:10	EAST
	17:52	11.5	1.0	18:10-23:30	WEST	18:10-20:15	WEST
	23:08	13.5	2.0	23:30-01:25	EAST	22:00-23:30	WEST
						23:30-00:30	EAST
2010/08/05	07:18	3.9	9.6	13:40-15:50	WEST	14:40-15:50	WEST
	15:26	13.1	9.2	15:50-19:45	EAST	15:50-19:45	EAST
	19:29	11.8	1.3	19:45-00:35	WEST	19:45-22:00	WEST
						22:45-00:35	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/06	00:03	13.5	1.7	00:35-02:20	EAST	00:35-01:30	EAST
	08:17	3.0	10.5	14:55-16:40	WEST	15:45-16:40	WEST
	16:13	13.8	10.8	16:40-21:05	EAST	16:40-18:05	EAST
	20:51	11.8	2.0	21:05-01:45	WEST	19:25-21:05 21:05-22:40	EAST WEST
2010/08/07	01:08	13.8	2.0	01:45-03:15	EAST	00:30-01:45	WEST
	09:13	2.3	11.5	15:55-17:20	WEST	01:45-02:30	EAST
	16:53	14.1	11.8	17:20-22:10	EAST	16:35-17:20	WEST
	21:50	11.5	2.6	22:10-02:50	WEST	17:20-18:10 21:05-22:10 22:10-23:15	EAST EAST WEST
2010/08/08	02:16	14.1	2.6	02:50-04:10	EAST	02:00-02:50	WEST
	10:05	1.6	12.5	16:45-17:55	WEST	02:50-03:30	EAST
	17:28	14.8	13.2	17:55-19:35	EAST	17:20-17:55	WEST
	22:42	10.8	4.0	21:05-23:05 23:05-03:55	EAST WEST	17:55-18:30 22:15-23:05 23:05-23:55	EAST EAST WEST
2010/08/09	03:26	14.1	3.3	03:55-05:05	EAST	03:15-03:55	WEST
	10:53	1.3	12.8	17:25-18:25	WEST	03:55-04:30	EAST
	18:00	15.1	13.8	18:25-19:40	EAST	18:00-18:25	WEST
	23:31	9.8	5.3	22:30-23:55 23:55-01:30	EAST WEST	18:25-19:00 23:15-23:55 23:55-00:35	EAST EAST WEST
2010/08/10	04:32	14.1	4.3	03:35-05:00	WEST	04:25-05:00	WEST
	11:37	1.6	12.5	05:00-06:00	EAST	05:00-05:30	EAST
	18:32	15.4	13.8	18:05-19:00	WEST	18:35-19:00	WEST
				19:00-20:00 23:35-00:45	EAST EAST	19:00-19:25	EAST
2010/08/11	00:19	8.5	6.9	00:45-02:00	WEST	00:10-00:45	EAST
	05:35	14.1	5.6	04:50-06:00	WEST	00:45-01:20	WEST
	12:20	2.3	11.8	06:00-07:00	EAST	05:30-06:00	WEST
	19:02	15.4	13.1	18:40-19:30 19:30-20:30	WEST EAST	06:00-06:30 19:05-19:30 19:30-19:55	EAST WEST EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/12	01:09	7.2	8.2	00:30-01:35	EAST	01:05-01:35	EAST
	06:37	13.8	6.6	01:35-02:40	WEST	01:35-02:05	WEST
	13:01	3.6	10.2	06:00-07:05	WEST	06:35-07:05	WEST
	19:34	15.7	12.1	07:05-08:05	EAST	07:05-07:35	EAST
				19:10-20:05	WEST	19:40-20:05	WEST
			20:05-21:00	EAST	20:05-20:30	EAST	
2010/08/13	01:59	5.9	9.8			07:40-08:10	WEST
	07:40	13.1	7.2	07:05-08:10	WEST	08:10-08:40	EAST
	13:43	5.2	7.9	08:10-09:15	EAST	20:10-20:35	WEST
	20:06	15.7	10.5	19:40-20:35	WEST	20:35-21:00	EAST
				20:35-21:30	EAST		
2010/08/14	02:50	4.9	10.8	08:05-09:20	WEST	08:45-09:20	WEST
	08:49	12.8	7.9	09:20-10:35	EAST	09:20-09:50	EAST
	14:27	6.9	5.9	13:45-15:00	EAST	14:25-15:00	EAST
	20:39	15.4	8.5	15:00-16:10	WEST	15:00-15:35	WEST
				20:05-21:10	WEST	20:40-21:10	WEST
			21:10-22:10	EAST	21:10-21:35	EAST	
2010/08/15	03:42	4.3	11.1	09:15-10:35	WEST	09:55-10:35	WEST
	10:11	12.5	8.2	10:35-12:25	EAST	10:35-11:15	EAST
	15:17	8.9	3.6	13:55-15:50	EAST	15:05-15:50	EAST
	21:15	14.8	5.9	15:50-17:30	WEST	15:50-16:35	WEST
				20:15-21:45	WEST	21:05-21:45	WEST
			21:45-22:55	EAST	21:45-22:15	EAST	
2010/08/16	04:36	3.6	11.2	10:25-12:00	WEST	11:10-12:00	WEST
	11:43	12.5	8.9	12:00-16:50	EAST	12:00-13:00	EAST
	16:19	10.2	2.3	16:50-22:20	WEST	15:45-16:50	EAST
	21:54	14.1	3.9	22:20-23:45	EAST	16:50-17:55	WEST
						21:30-22:20	WEST
					22:20-23:05	EAST	
2010/08/17	05:34	3.6	10.5	11:40-13:30	WEST	12:35-13:30	WEST
	13:11	12.8	9.2	13:30-18:10	EAST	13:30-15:00	EAST
	17:46	11.2	1.6	18:10-23:05	WEST	16:30-18:10	EAST
	22:39	13.5	2.3	23:05-00:50	EAST	18:10-19:45	WEST
						21:50-23:05	WEST
					23:05-00:00	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/18	06:35	3.6	9.9	13:05-14:55	WEST	14:00-14:55	WEST
	14:27	13.5	9.9	14:55-19:50	EAST	14:55-16:25	EAST
	19:26	11.5	2.0	19:50-00:05	WEST	18:00-19:50	EAST
	23:37	12.8	1.3			19:50-00:05	WEST
2010/08/19	07:38	3.6	9.2	00:05-02:05	EAST	00:05-01:05	EAST
	15:27	13.8	10.2	14:15-16:00	WEST	15:05-16:00	WEST
	20:44	11.2	2.6	16:00-21:20	EAST	16:00-17:05	EAST
				21:20-01:15	WEST	19:50-21:20	EAST
						21:20-01:15	WEST
2010/08/20	00:48	12.5	1.3	01:15-03:10	EAST	01:15-02:15	EAST
	08:38	3.6	8.9	15:15-16:45	WEST	16:00-16:45	WEST
	16:14	14.1	10.5	16:45-22:20	EAST	16:45-17:40	EAST
	21:39	10.8	3.3	22:20-02:25	WEST	21:05-22:20	EAST
					22:20-02:25	WEST	
2010/08/21	02:01	12.5	1.7	02:25-04:10	EAST	02:25-03:20	EAST
	09:30	3.6	8.9	16:00-17:20	WEST	16:40-17:20	WEST
	16:51	14.1	10.5	17:20-19:35	EAST	17:20-18:05	EAST
	22:21	10.2	3.9	20:25-23:05	EAST	22:05-23:05	EAST
23:05-03:25				WEST	23:05-00:20	WEST	
2010/08/22	03:05	12.8	2.6	03:25-05:00	EAST	02:15-03:25	WEST
	10:15	3.6	9.2	16:35-17:50	WEST	03:25-04:15	EAST
	17:21	14.1	10.5	17:50-19:35	EAST	17:15-17:50	WEST
	22:58	9.8	4.3	21:40-23:40	EAST	17:50-18:30	EAST
23:40-04:20				WEST	22:50-23:40	EAST	
						23:40-00:40	WEST
2010/08/23	03:57	12.8	3.0	04:20-05:50	EAST	03:25-04:20	WEST
	10:53	3.6	9.2	17:05-18:20	WEST	04:20-05:00	EAST
	17:48	14.1	10.5	18:20-19:45	EAST	17:45-18:20	WEST
	23:33	9.2	4.9	22:30-00:15	EAST	18:20-18:55	EAST
					23:25-00:15	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/24	04:44	12.8	3.6	00:15-05:05	WEST	00:15-01:05	WEST
	11:27	3.9	8.9	05:05-06:30	EAST	04:15-05:05	WEST
	18:12	14.1	10.2	17:30-18:40	WEST	05:05-05:45	EAST
				18:40-20:00	EAST	18:05-18:40	WEST
				23:10-00:45	EAST	18:40-19:15	EAST
2010/08/25	00:07	8.5	5.6	00:45-02:50	WEST	00:00-00:45	EAST
	05:27	12.8	4.3	03:45-05:50	WEST	00:45-01:30	WEST
	11:58	4.6	8.2	05:50-07:15	EAST	05:05-05:50	WEST
	18:33	14.1	9.5	17:50-19:00	WEST	05:50-06:30	EAST
				19:00-20:20	EAST	18:30-19:00	WEST
23:45-01:10	EAST	19:00-19:35	EAST				
2010/08/26	00:40	7.9	6.2	01:10-03:00	WEST	00:35-01:10	EAST
	06:10	12.8	4.9	04:50-06:35	WEST	01:10-01:55	WEST
	12:27	5.6	7.2	06:35-08:05	EAST	05:55-06:35	WEST
	18:53	14.1	8.5	18:05-19:20	WEST	06:35-07:15	EAST
				19:20-20:35	EAST	18:45-19:20	WEST
19:20-19:55	EAST	19:20-19:55	EAST				
2010/08/27	01:14	6.9	7.2	00:20-01:40	EAST	01:05-01:40	EAST
	06:54	12.8	5.9	01:40-03:15	WEST	01:40-02:20	WEST
	12:56	6.2	6.6	05:45-07:20	WEST	06:40-07:20	WEST
	19:13	14.1	7.9	07:20-08:55	EAST	07:20-08:05	EAST
				14:05-14:45	WEST	19:05-19:40	WEST
	18:20-19:40	WEST	19:40-20:15	EAST			
	19:40-20:55	EAST					
2010/08/28	01:47	6.2	7.9	03:00-03:40	WEST	07:25-08:10	WEST
	07:40	12.5	6.3	06:35-08:10	WEST	08:10-08:55	EAST
	13:26	7.2	5.3	08:10-09:55	EAST	13:10-13:55	EAST
	19:35	13.8	6.6	12:10-13:55	EAST	13:55-14:35	WEST
				13:55-15:30	WEST	19:20-19:55	WEST
18:30-19:55	WEST	19:55-20:35	EAST				
19:55-21:15	EAST						
2010/08/29	02:23	5.9	7.9			08:15-09:00	WEST
	08:32	12.5	6.6	07:20-09:00	WEST	09:00-09:50	EAST
	13:59	8.5	4.0	09:00-14:25	EAST	13:35-14:25	EAST
	19:58	13.8	5.3	14:25-16:20	WEST	14:25-15:15	WEST
				18:35-20:20	WEST	19:35-20:20	WEST
20:20-21:40	EAST	20:20-20:55	EAST				

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/08/30	03:01	5.2	8.6	08:10-10:00	WEST	09:10-10:00	WEST
	09:33	12.1	6.9	10:00-15:00	EAST	10:00-11:00	EAST
	14:37	9.5	2.6	15:00-20:40	WEST	13:55-15:00	EAST
	20:22	13.5	4.0	20:40-22:15	EAST	15:00-16:05	WEST
						19:50-20:40	WEST
						20:40-21:25	EAST
2010/08/31	03:44	4.9	8.6	09:05-11:10	WEST	10:10-11:10	WEST
	10:50	12.1	7.2	11:10-15:45	EAST	11:10-12:45	EAST
	15:24	10.5	1.6	15:45-21:15	WEST	14:00-15:45	EAST
	20:51	13.5	3.0	21:15-22:55	EAST	15:45-17:05	WEST
						20:10-21:15	WEST
					21:15-22:05	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS September 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/01	04:34	4.6	8.9	10:15-12:35	WEST	11:25-12:35	WEST
	12:20	12.5	7.9	12:35-16:40	EAST	12:35-16:40	EAST
	16:26	11.2	1.3	16:40-21:55	WEST	16:40-18:35	WEST
	21:31	13.1	1.9	21:55-23:50	EAST	20:25-21:55	WEST
						21:55-22:55	EAST
2010/09/02	05:32	4.3	8.8	11:40-14:00	WEST	12:50-14:00	WEST
	13:40	13.1	8.8	14:00-18:10	EAST	14:00-18:10	EAST
	17:59	11.5	1.6	18:10-22:55	WEST	18:10-22:55	WEST
	22:29	12.8	1.3	22:55-01:00	EAST	22:55-00:00	EAST
2010/09/03	06:37	3.9	8.9	13:05-15:05	WEST	14:05-15:05	WEST
	14:41	13.5	9.6	15:05-19:45	EAST	15:05-19:45	EAST
	19:39	11.5	2.0	19:45-00:20	WEST	19:45-00:20	WEST
2010/09/04	07:44	3.3	9.5	00:20-02:10	EAST	00:20-01:15	EAST
	15:28	13.8	10.5	14:20-15:50	WEST	15:05-15:50	WEST
	20:47	10.8	3.0	15:50-21:00	EAST	15:50-16:50	EAST
				21:00-01:40	WEST	19:45-21:00	EAST
						21:00-22:15	WEST
2010/09/05	01:07	13.1	2.3	01:40-03:15	EAST	00:40-01:40	WEST
	08:45	3.0	10.1	15:15-16:30	WEST	01:40-02:30	EAST
	16:06	14.4	11.4	16:30-18:20	EAST	15:55-16:30	WEST
	21:39	9.8	4.6	19:55-21:55	EAST	16:30-17:10	EAST
				21:55-03:00	WEST	21:05-21:55	EAST
						21:55-22:45	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/06	02:27	13.5	3.7	03:00-04:15	EAST	02:15-03:00	WEST
	09:40	2.6	10.9	16:00-17:05	WEST	03:00-03:35	EAST
	16:39	14.8	12.2	17:05-18:20	EAST	16:35-17:05	WEST
	22:26	8.9	5.9	21:25-22:45	EAST	17:05-17:35	EAST
				22:45-00:15	WEST	22:10-22:45	EAST
						22:45-23:25	WEST
2010/09/07	03:40	13.8	4.9	02:45-04:10	WEST	03:35-04:10	WEST
	10:29	3.0	10.8	04:10-05:10	EAST	04:10-04:40	EAST
	17:10	15.1	12.1	16:40-17:35	WEST	17:10-17:35	WEST
	23:11	7.2	7.9	17:35-18:35	EAST	17:35-18:05	EAST
				22:25-23:35	EAST	23:05-23:35	EAST
			23:35-00:40	WEST	23:35-00:05	WEST	
2010/09/08	04:45	14.1	6.9	04:05-05:10	WEST	04:45-05:10	WEST
	11:14	3.6	10.5	05:10-06:10	EAST	05:10-05:40	EAST
	17:41	15.1	11.5	17:15-18:05	WEST	17:45-18:05	WEST
	23:57	5.9	9.2	18:05-19:00	EAST	18:05-18:30	EAST
2010/09/09	05:45	14.1	8.2			05:50-06:15	WEST
	11:57	4.6	9.5	05:15-06:15	WEST	06:15-06:40	EAST
	18:12	15.4	10.8	06:15-07:10	EAST	18:15-18:40	WEST
				17:45-18:40	WEST	18:40-19:05	EAST
			18:40-19:30	EAST			
2010/09/10	00:42	4.6	10.8	06:20-07:15	WEST	06:50-07:15	WEST
	06:45	14.1	9.5	07:15-08:15	EAST	07:15-07:45	EAST
	12:39	6.2	7.9			18:45-19:10	WEST
	18:43	15.4	9.2	18:15-19:10	WEST	19:10-19:35	EAST
			19:10-20:05	EAST			
2010/09/11	01:28	3.6	11.8	07:20-08:20	WEST	07:50-08:20	WEST
	07:46	13.8	10.2	08:20-09:25	EAST	08:20-08:45	EAST
	13:24	7.5	6.3	12:50-14:00	EAST	13:25-14:00	EAST
	19:16	15.1	7.6	14:00-15:10	WEST	14:00-14:30	WEST
				18:40-19:45	WEST	19:15-19:45	WEST
			19:45-20:40	EAST	19:45-20:10	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/12	02:14	3.3	11.8	08:15-09:20	WEST	08:50-09:20	WEST
	08:53	13.8	10.5	09:20-10:45	EAST	09:20-09:55	EAST
	14:12	8.9	4.9	13:20-14:50	EAST	14:10-14:50	EAST
	19:50	14.4	5.5	14:50-16:20	WEST	14:50-15:30	WEST
				18:55-20:20	WEST	19:45-20:20	WEST
			20:20-21:25	EAST	20:20-20:50	EAST	
2010/09/13	03:03	3.0	11.4	09:10-10:30	WEST	09:50-10:30	WEST
	10:06	13.5	10.5	10:30-12:35	EAST	10:30-11:10	EAST
	15:09	10.2	3.3	13:25-15:45	EAST	14:55-15:45	EAST
	20:27	13.8	3.6	15:45-20:55	WEST	15:45-16:40	WEST
				20:55-22:15	EAST	20:05-20:55	WEST
					20:55-21:35	EAST	
2010/09/14	03:55	3.3	10.5	10:10-11:40	WEST	10:55-11:40	WEST
	11:23	13.5	10.2	11:40-16:55	EAST	11:40-12:40	EAST
	16:24	10.8	2.7	16:55-21:35	WEST	15:40-16:55	EAST
	21:09	13.1	2.3	21:35-23:15	EAST	16:55-18:15	WEST
						20:25-21:35	WEST
					21:35-22:25	EAST	
2010/09/15	04:52	3.9	9.2	11:15-13:00	WEST	12:05-13:00	WEST
	12:36	13.8	9.9	13:00-18:25	EAST	13:00-14:10	EAST
	18:02	11.2	2.6	18:25-22:30	WEST	16:50-18:25	EAST
	22:03	12.1	0.9	22:30-00:35	EAST	18:25-22:30	WEST
						22:30-23:35	EAST
2010/09/16	05:55	4.3	7.8	12:20-14:10	WEST	13:15-14:10	WEST
	13:43	13.8	9.5	14:10-20:00	EAST	14:10-15:20	EAST
	19:34	10.8	3.0	20:00-23:45	WEST	18:20-20:00	EAST
	23:19	11.8	1.0	23:45-02:05	EAST	20:00-23:45	WEST
						23:45-00:55	EAST
2010/09/17	07:01	4.6	7.2	13:25-15:05	WEST	14:20-15:05	WEST
	14:38	13.8	9.2	15:05-21:10	EAST	15:05-16:05	EAST
	20:37	10.2	3.6	21:10-01:10	WEST	19:50-21:10	EAST
						21:10-01:10	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/18	00:53	11.5	1.3	01:10-03:25	EAST	01:10-02:15	EAST
	08:04	4.9	6.6	14:20-15:50	WEST	15:05-15:50	WEST
	15:22	13.8	8.9	15:50-18:00	EAST	15:50-16:40	EAST
	21:22	9.5	4.3	19:25-22:00	EAST	20:55-22:00	EAST
				22:00-02:30	WEST	22:00-23:20	WEST
2010/09/19	02:15	11.8	2.3	02:30-04:25	EAST	01:10-02:30	WEST
	08:59	5.2	6.6	15:00-16:25	WEST	02:30-03:25	EAST
	15:57	13.8	8.6	16:25-18:05	EAST	15:45-16:25	WEST
	21:58	8.9	4.9	20:40-22:35	EAST	16:25-17:05	EAST
				22:35-03:30	WEST	21:45-22:35	EAST
					22:35-23:35	WEST	
2010/09/20	03:16	12.1	3.2	03:30-05:15	EAST	02:35-03:30	WEST
	09:45	5.2	6.9	15:35-16:55	WEST	03:30-04:20	EAST
	16:27	13.8	8.6	16:55-18:20	EAST	16:15-16:55	WEST
	22:31	7.9	5.9	21:30-23:05	EAST	16:55-17:30	EAST
				23:05-01:20	WEST	22:25-23:05	EAST
					23:05-23:55	WEST	
2010/09/21	04:07	12.5	4.6	02:15-04:25	WEST	03:40-04:25	WEST
	10:24	5.6	6.9	04:25-06:00	EAST	04:25-05:10	EAST
	16:52	13.8	8.2	16:00-17:15	WEST	16:40-17:15	WEST
	23:03	7.2	6.6	17:15-18:35	EAST	17:15-17:50	EAST
				22:10-23:35	EAST	22:55-23:35	EAST
			23:35-01:15	WEST	23:35-00:15	WEST	
2010/09/22	04:51	12.8	5.6	03:35-05:15	WEST	04:30-05:15	WEST
	10:59	6.2	6.6	05:15-06:45	EAST	05:15-05:55	EAST
	17:14	13.8	7.6			17:05-17:40	WEST
	23:34	6.6	7.2	16:20-17:40	WEST	17:40-18:10	EAST
				17:40-18:55	EAST		
2010/09/23	05:33	13.1	6.5	00:35-01:30	WEST	00:35-00:40	WEST
	11:31	6.9	6.2	04:30-06:00	WEST	05:20-06:00	WEST
	17:34	13.8	6.9	06:00-07:30	EAST	06:00-06:40	EAST
						12:15-12:30	WEST
				12:15-13:20	WEST	17:20-17:55	WEST
				16:40-17:55	WEST	17:55-18:30	EAST
				17:55-19:10	EAST		

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/24	00:04	5.6	8.2			06:05-06:45	WEST
	06:14	13.5	7.9	05:20-06:45	WEST	06:45-07:25	EAST
	12:03	7.5	6.0	06:45-08:15	EAST	11:45-12:30	EAST
	17:54	13.8	6.3	10:55-12:30	EAST	12:30-13:10	WEST
				12:30-14:00	WEST	17:40-18:15	WEST
				16:50-18:15	WEST	18:15-18:50	EAST
				18:15-19:30	EAST		
2010/09/25	00:35	4.9	8.9	06:05-07:25	WEST	06:50-07:25	WEST
	06:57	13.5	8.6	07:25-09:10	EAST	07:25-08:10	EAST
	12:34	8.2	5.3	11:15-13:05	EAST	12:15-13:05	EAST
	18:15	13.5	5.3	13:05-14:50	WEST	13:05-13:50	WEST
				16:55-18:35	WEST	17:55-18:35	WEST
				18:35-19:50	EAST	18:35-19:10	EAST
2010/09/26	01:07	4.6	8.9	06:50-08:10	WEST	07:35-08:10	WEST
	07:42	13.5	8.9	08:10-10:10	EAST	08:10-08:55	EAST
	13:08	9.2	4.3	11:25-13:35	EAST	12:45-13:35	EAST
	18:37	13.5	4.3	13:35-15:55	WEST	13:35-14:30	WEST
				16:50-18:55	WEST	18:10-18:55	WEST
			18:55-20:15	EAST	18:55-19:35	EAST	
2010/09/27	01:41	3.9	9.6	07:35-09:00	WEST	08:20-09:00	WEST
	08:32	13.5	9.6	09:00-14:15	EAST	09:00-09:50	EAST
	13:46	9.8	3.7	14:15-19:20	WEST	13:15-14:15	EAST
	19:00	13.5	3.7	19:20-20:45	EAST	14:15-15:15	WEST
						18:30-19:20	WEST
					19:20-20:00	EAST	
2010/09/28	02:19	3.9	9.6	08:20-09:55	WEST	09:10-09:55	WEST
	09:29	13.5	9.6	09:55-14:55	EAST	09:55-10:55	EAST
	14:30	10.5	3.0	14:55-19:50	WEST	13:40-14:55	EAST
	19:27	13.1	2.6	19:50-21:25	EAST	14:55-16:05	WEST
						18:50-19:50	WEST
					19:50-20:35	EAST	
2010/09/29	03:02	3.9	9.2	09:10-10:55	WEST	10:05-10:55	WEST
	10:34	13.5	9.6	10:55-15:45	EAST	10:55-12:15	EAST
	15:27	11.2	2.3	15:45-20:30	WEST	14:10-15:45	EAST
	20:00	12.8	1.6	20:30-22:15	EAST	15:45-17:20	WEST
						19:05-20:30	WEST
					20:30-21:20	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/09/30	03:52	3.9	8.9	10:10-12:05	WEST	11:10-12:05	WEST
	11:43	13.8	9.9	12:05-16:55	EAST	12:05-13:50	EAST
	16:49	11.5	2.3	16:55-21:20	WEST	14:50-16:55	EAST
	20:52	12.5	1.0	21:20-23:20	EAST	16:55-21:20	WEST
							21:20-22:25

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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 PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS October 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/01	04:52	3.9	8.6	11:20-13:15	WEST	12:20-13:15	WEST
	12:49	13.8	9.9	13:15-18:25	EAST	13:15-14:45	EAST
	18:29	11.2	2.6	18:25-22:40	WEST	16:35-18:25	EAST
	22:14	12.1	0.9	22:40-00:45	EAST	18:25-22:40	WEST
						22:40-23:45	EAST
2010/10/02	05:58	4.3	7.8	12:30-14:10	WEST	13:25-14:10	WEST
	13:44	14.1	9.8	14:10-19:45	EAST	14:10-15:15	EAST
	19:43	10.2	3.9	19:45-00:20	WEST	18:30-19:45	EAST
	23:50	11.8	1.6			19:45-21:25	WEST
						22:50-00:20	WEST
2010/10/03	07:07	4.3	7.5	00:20-02:10	EAST	00:20-01:15	EAST
	14:29	14.4	10.1	13:30-14:55	WEST	14:15-14:55	WEST
	20:36	9.2	5.2	14:55-16:50	EAST	14:55-15:40	EAST
				18:45-20:50	EAST	19:55-20:50	EAST
				20:50-01:50	WEST	20:50-21:50	WEST
2010/10/04	01:24	12.1	2.9	01:50-03:25	EAST	01:00-01:50	WEST
	08:13	4.6	7.5	14:25-15:35	WEST	01:50-02:35	EAST
	15:08	14.4	9.8	15:35-16:50	EAST	15:00-15:35	WEST
	21:22	7.9	6.5	20:15-21:40	EAST	15:35-16:10	EAST
				21:40-23:15	WEST	21:05-21:40	EAST
					21:40-22:20	WEST	
2010/10/05	02:47	12.8	4.9	01:40-03:15	WEST	02:35-03:15	WEST
	09:10	4.9	7.9	03:15-04:30	EAST	03:15-03:50	EAST
	15:42	14.8	9.9	15:05-16:10	WEST	15:40-16:10	WEST
	22:05	6.2	8.6	16:10-17:10	EAST	16:10-16:35	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/06	03:57	13.5	7.3	03:15-04:25	WEST	03:50-04:25	WEST
	10:02	5.6	7.9	04:25-05:30	EAST	04:25-04:55	EAST
	16:15	15.1	9.5	15:40-16:40	WEST	16:15-16:40	WEST
	22:48	4.6	10.5	16:40-17:35	EAST	16:40-17:05	EAST
2010/10/07	04:58	14.1	9.5	04:25-05:25	WEST	05:00-05:25	WEST
	10:50	6.6	7.5	05:25-06:30	EAST	05:25-05:55	EAST
	16:47	15.1	8.5	11:40-12:25	WEST	11:40-11:50	WEST
	23:31	3.3	11.8	16:15-17:15	WEST	16:45-17:15	WEST
				17:15-18:05	EAST	17:15-17:40	EAST
2010/10/08	05:56	14.4	11.1	05:30-06:25	WEST	06:00-06:25	WEST
	11:37	7.5	6.9	06:25-07:30	EAST	06:25-06:55	EAST
	17:20	15.1	7.6	11:00-12:10	EAST	11:40-12:10	EAST
				12:10-13:20	WEST	12:10-12:40	WEST
				16:45-17:45	WEST	17:20-17:45	WEST
			17:45-18:40	EAST	17:45-18:10	EAST	
2010/10/09	00:14	2.3	12.8	06:30-07:25	WEST	07:00-07:25	WEST
	06:53	14.8	12.5	07:25-08:30	EAST	07:25-07:55	EAST
	12:24	8.5	6.3	11:45-13:00	EAST	12:25-13:00	EAST
	17:53	14.8	6.3	13:00-14:20	WEST	13:00-13:35	WEST
				17:10-18:20	WEST	17:50-18:20	WEST
			18:20-19:15	EAST	18:20-18:45	EAST	
2010/10/10	00:57	2.0	12.8	07:20-08:20	WEST	07:55-08:20	WEST
	07:51	14.8	12.8	08:20-09:35	EAST	08:20-08:55	EAST
	13:12	9.5	5.3	12:25-13:50	EAST	13:10-13:50	EAST
	18:28	14.4	4.9	13:50-15:30	WEST	13:50-14:30	WEST
				17:25-18:55	WEST	18:20-18:55	WEST
			18:55-20:00	EAST	18:55-19:25	EAST	
2010/10/11	01:41	2.0	12.4	08:15-09:20	WEST	08:45-09:20	WEST
	08:49	14.8	12.8	09:20-10:50	EAST	09:20-09:55	EAST
	14:06	10.2	4.6	12:55-14:45	EAST	14:00-14:45	EAST
	19:04	13.8	3.6	14:45-19:30	WEST	14:45-15:35	WEST
				19:30-20:45	EAST	18:45-19:30	WEST
					19:30-20:05	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/12	02:26	2.6	11.2	09:00-10:15	WEST	09:40-10:15	WEST
	09:50	14.8	12.2	10:15-12:20	EAST	10:15-11:00	EAST
	15:11	10.8	4.0	13:15-15:45	EAST	14:50-15:45	EAST
	19:43	12.8	2.0	15:45-20:10	WEST	15:45-17:00	WEST
				20:10-21:40	EAST	19:05-20:10	WEST
						20:10-20:55	EAST
2010/10/13	03:14	3.3	9.5	09:50-11:15	WEST	10:35-11:15	WEST
	10:50	14.4	11.1	11:15-17:00	EAST	11:15-12:05	EAST
	16:34	10.8	3.6	17:00-20:55	WEST	15:45-17:00	EAST
	20:28	12.1	1.3	20:55-22:50	EAST	17:00-20:55	WEST
						20:55-21:55	EAST
2010/10/14	04:06	3.9	8.2	10:40-12:15	WEST	11:30-12:15	WEST
	11:50	14.4	10.5	12:15-18:25	EAST	12:15-13:15	EAST
	18:07	10.5	3.9	18:25-21:55	WEST	16:55-18:25	EAST
	21:32	11.2	0.7	21:55-00:25	EAST	18:25-21:55	WEST
						21:55-23:10	EAST
2010/10/15	05:03	4.9	6.3	11:30-13:15	WEST	12:25-13:15	WEST
	12:45	14.1	9.2	13:15-19:45	EAST	13:15-14:10	EAST
	19:23	9.8	4.3	19:45-23:25	WEST	18:20-19:45	EAST
	23:07	10.8	1.0	23:25-02:10	EAST	19:45-23:25	WEST
						23:25-00:40	EAST
2010/10/16	06:05	5.9	4.9			13:15-14:05	WEST
	13:35	14.1	8.2	12:20-14:05	WEST	14:05-14:55	EAST
	20:15	8.9	5.2	14:05-16:20	EAST	19:35-20:45	EAST
				18:00-20:45	EAST	20:45-01:00	WEST
			20:45-01:00	WEST			
2010/10/17	00:59	10.8	1.9	01:00-03:50	EAST	01:00-02:15	EAST
	07:11	6.6	4.2	05:15-05:50	EAST	14:00-14:45	WEST
	14:16	14.1	7.5	08:25-09:15	WEST	14:45-15:30	EAST
	20:54	7.9	6.2	13:10-14:45	WEST	20:30-21:25	EAST
				14:45-16:30	EAST	21:25-22:35	WEST
				19:25-21:25	EAST		
			21:25-02:25	WEST			

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/18	02:23	11.2	3.3	02:25-05:00	EAST	01:15-02:25	WEST
	08:12	7.2	4.0	06:15-08:30	EAST	02:25-03:25	EAST
	14:50	13.8	6.6	08:30-10:10	WEST	07:40-08:30	EAST
	21:27	6.9	6.9	13:45-15:15	WEST	08:30-09:15	WEST
				15:15-16:50	EAST	14:35-15:15	WEST
				20:20-22:00	EAST	15:15-16:00	EAST
				22:00-03:35	WEST	21:15-22:00	EAST
						22:00-22:50	WEST
2010/10/19	03:24	11.8	4.9	03:35-05:50	EAST	02:40-03:35	WEST
	09:05	7.5	4.3	07:15-09:20	EAST	03:35-04:25	EAST
	15:19	13.8	6.3	09:20-11:00	WEST	08:30-09:20	EAST
	21:59	6.2	7.6	14:15-15:45	WEST	09:20-10:05	WEST
				15:45-17:05	EAST	15:05-15:45	WEST
				23:25-00:10	WEST	15:45-16:25	EAST
2010/10/20	04:14	12.5	6.3	02:45-04:30	WEST	03:45-04:30	WEST
	09:50	7.9	4.6	04:30-06:30	EAST	04:30-05:15	EAST
	15:44	13.5	5.6	08:05-10:05	EAST	09:20-10:05	EAST
	22:29	5.2	8.3	10:05-11:45	WEST	10:05-10:50	WEST
				14:40-16:10	WEST	15:30-16:10	WEST
				16:10-17:25	EAST	16:10-16:45	EAST
2010/10/21	04:58	13.1	7.9	03:50-05:20	WEST	04:35-05:20	WEST
	10:30	8.5	4.6	05:20-07:15	EAST	05:20-06:05	EAST
	16:07	13.5	5.0	08:50-10:50	EAST	10:00-10:50	EAST
	22:59	4.6	8.9	10:50-12:35	WEST	10:50-11:35	WEST
				14:55-16:30	WEST	15:50-16:30	WEST
				16:30-17:45	EAST	16:30-17:05	EAST
2010/10/22	05:40	13.8	9.2	04:40-06:05	WEST	05:25-06:05	WEST
	11:06	8.9	4.9	06:05-07:55	EAST	06:05-06:45	EAST
	16:30	13.5	4.6	09:30-11:30	EAST	10:40-11:30	EAST
	23:30	3.9	9.6	11:30-13:30	WEST	11:30-12:20	WEST
				15:05-16:50	WEST	16:10-16:50	WEST
				16:50-18:05	EAST	16:50-17:30	EAST
2010/10/23	06:21	14.1	10.2	05:30-06:45	WEST	06:10-06:45	WEST
	11:42	9.5	4.6	06:45-08:45	EAST	06:45-07:30	EAST
	16:53	13.5	4.0	10:00-12:10	EAST	11:20-12:10	EAST
				12:10-17:15	WEST	12:10-13:00	WEST
				17:15-18:30	EAST	16:30-17:15	WEST
						17:15-17:50	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/24	00:01	3.3	10.2	06:15-07:30	WEST	06:55-07:30	WEST
	07:02	14.4	11.1	07:30-09:40	EAST	07:30-08:15	EAST
	12:18	10.2	4.2	10:20-12:50	EAST	11:55-12:50	EAST
	17:17	13.5	3.3	12:50-17:35	WEST	12:50-13:45	WEST
				17:35-18:55	EAST	16:45-17:35	WEST
						17:35-18:15	EAST
2010/10/25	00:35	3.0	10.5	06:55-08:15	WEST	07:35-08:15	WEST
	07:46	14.8	11.8	08:15-13:30	EAST	08:15-09:00	EAST
	12:57	10.5	4.3	13:30-18:05	WEST	12:30-13:30	EAST
	17:43	13.5	3.0	18:05-19:25	EAST	13:30-14:30	WEST
						17:10-18:05	WEST
						18:05-18:45	EAST
2010/10/26	01:10	2.6	10.9	07:40-09:00	WEST	08:20-09:00	WEST
	08:32	14.8	12.2	09:00-14:10	EAST	09:00-09:50	EAST
	13:41	11.2	3.6	14:10-18:35	WEST	13:05-14:10	EAST
	18:12	13.1	1.9	18:35-20:05	EAST	14:10-15:20	WEST
						17:35-18:35	WEST
						18:35-19:20	EAST
2010/10/27	01:50	2.6	10.5	08:25-09:50	WEST	09:05-09:50	WEST
	09:21	14.8	12.2	09:50-14:55	EAST	09:50-10:40	EAST
	14:35	11.2	3.6	14:55-19:15	WEST	13:45-14:55	EAST
	18:46	12.8	1.6	19:15-20:50	EAST	14:55-16:20	WEST
						18:05-19:15	WEST
						19:15-20:05	EAST
2010/10/28	02:33	3.0	9.8	09:10-10:40	WEST	09:55-10:40	WEST
	10:13	14.8	11.8	10:40-15:55	EAST	10:40-11:40	EAST
	15:46	11.2	3.6	15:55-20:05	WEST	14:35-15:55	EAST
	19:34	12.1	0.9	20:05-21:50	EAST	15:55-17:45	WEST
						18:25-20:05	WEST
						20:05-21:00	EAST
2010/10/29	03:22	3.3	8.8	10:05-11:35	WEST	10:50-11:35	WEST
	11:06	14.8	11.5	11:35-17:10	EAST	11:35-12:35	EAST
	17:10	10.8	4.0	17:10-21:10	WEST	15:50-17:10	EAST
	20:47	11.5	0.7	21:10-23:05	EAST	17:10-21:10	WEST
						21:10-22:10	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/10/30	04:18	3.9	7.6	10:55-12:30	WEST	11:45-12:30	WEST
	11:57	14.8	10.9	12:30-18:25	EAST	12:30-13:20	EAST
	18:27	9.8	5.0	18:25-22:40	WEST	17:15-18:25	EAST
	22:25	11.2	1.4	22:40-00:45	EAST	18:25-22:40	WEST
						22:40-23:40	EAST
2010/10/31	05:20	4.9	6.3	11:50-13:15	WEST	12:35-13:15	WEST
	12:44	14.8	9.9	13:15-15:00	EAST	13:15-14:00	EAST
	19:26	8.5	6.3	17:30-19:40	EAST	18:40-19:40	EAST
				19:40-00:30	WEST	19:40-20:45	WEST
						23:20-00:30	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS November 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/01	00:10	11.2	2.7	00:30-02:25	EAST	00:30-01:20	EAST
	06:28	5.9	5.3			13:20-14:00	WEST
	13:27	15.1	9.2	12:40-14:00	WEST	14:00-14:35	EAST
	20:14	6.9	8.2	14:00-15:20	EAST	19:50-20:00	EAST
				19:05-20:00	EAST	20:35-21:20	WEST
			20:35-22:35	WEST			
2010/11/02	01:49	11.5	4.6	00:05-02:10	WEST	01:20-02:10	WEST
	07:36	6.9	4.6	02:10-03:50	EAST	02:10-02:55	EAST
	14:06	15.1	8.2			08:20-08:45	WEST
	20:59	5.2	9.9	08:20-09:30	WEST	14:05-14:35	WEST
				13:20-14:35	WEST	14:35-15:10	EAST
			14:35-15:45	EAST			
2010/11/03	03:10	12.5	7.3	02:10-03:30	WEST	02:55-03:30	WEST
	08:41	7.9	4.6	03:30-05:05	EAST	03:30-04:10	EAST
	14:43	15.1	7.2	07:40-09:10	EAST	08:30-09:10	EAST
	21:42	3.6	11.5	09:10-10:30	WEST	09:10-09:45	WEST
				14:00-15:10	WEST	14:40-15:10	WEST
			15:10-16:15	EAST	15:10-15:40	EAST	
2010/11/04	04:16	13.5	9.9	03:30-04:40	WEST	04:10-04:40	WEST
	09:39	8.5	5.0	04:40-06:05	EAST	04:40-05:15	EAST
	15:19	15.1	6.6	08:40-10:10	EAST	09:30-10:10	EAST
	22:24	2.3	12.8	10:10-11:30	WEST	10:10-10:45	WEST
				14:35-15:45	WEST	15:15-15:45	WEST
			15:45-16:45	EAST	15:45-16:15	EAST	
2010/11/05	05:14	14.4	12.1	04:40-05:45	WEST	05:15-05:45	WEST
	10:33	9.5	4.9	05:45-07:05	EAST	05:45-06:15	EAST
	15:55	14.8	5.3	09:35-11:05	EAST	10:25-11:05	EAST
	23:07	1.6	13.2	11:05-12:35	WEST	11:05-11:45	WEST
				15:05-16:20	WEST	15:50-16:20	WEST
			16:20-17:20	EAST	16:20-16:50	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
 BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/06	06:08	15.1	13.5	05:40-06:40	WEST	06:10-06:40	WEST
	11:25	10.2	4.9	06:40-08:00	EAST	06:40-07:10	EAST
	16:31	14.8	4.6	10:25-12:00	EAST	11:20-12:00	EAST
	23:49	1.0	13.8	12:00-13:40	WEST	12:00-12:40	WEST
				15:25-16:55	WEST	16:20-16:55	WEST
				16:55-18:00	EAST	16:55-17:30	EAST
2010/11/07	06:59	15.4	14.4	06:30-07:30	WEST	07:00-07:30	WEST
	12:15	10.5	4.9	07:30-08:55	EAST	07:30-08:05	EAST
	17:09	14.4	3.9	11:15-12:55	EAST	12:10-12:55	EAST
				12:55-17:35	WEST	12:55-13:40	WEST
				17:35-18:40	EAST	16:55-17:35	WEST
						17:35-18:05	EAST
2010/11/08	00:31	1.3	13.1	07:20-08:20	WEST	07:50-08:20	WEST
	07:48	15.7	14.4	08:20-09:50	EAST	08:20-08:55	EAST
	13:08	10.8	4.9	12:00-13:50	EAST	13:00-13:50	EAST
	17:47	13.8	3.0	13:50-18:15	WEST	13:50-14:40	WEST
				18:15-19:25	EAST	17:25-18:15	WEST
						18:15-18:50	EAST
2010/11/09	01:13	1.6	12.2	08:05-09:10	WEST	08:35-09:10	WEST
	08:36	15.7	14.1	09:10-10:45	EAST	09:10-09:45	EAST
	14:05	10.8	4.9	12:40-14:45	EAST	13:50-14:45	EAST
	18:26	13.1	2.3	14:45-18:55	WEST	14:45-15:50	WEST
				18:55-20:15	EAST	17:55-18:55	WEST
						18:55-19:35	EAST
2010/11/10	01:55	2.3	10.8	08:45-09:55	WEST	09:20-09:55	WEST
	09:24	15.4	13.1	09:55-11:45	EAST	09:55-10:35	EAST
	15:10	10.8	4.6	13:20-15:45	EAST	14:40-15:45	EAST
	19:08	12.5	1.7	15:45-19:35	WEST	15:45-17:20	WEST
				19:35-21:15	EAST	18:05-19:35	WEST
						19:35-20:25	EAST
2010/11/11	02:37	3.3	9.2	09:25-10:40	WEST	10:05-10:40	WEST
	10:11	15.4	12.1	10:40-12:45	EAST	10:40-11:25	EAST
	16:26	10.5	4.9	14:05-16:50	EAST	15:40-16:50	EAST
	19:59	11.5	1.0	16:50-20:25	WEST	16:50-20:25	WEST
				20:25-22:25	EAST	20:25-21:25	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/12	03:19	4.3	7.2	10:00-11:30	WEST	10:45-11:30	WEST
	10:57	15.1	10.8	11:30-13:35	EAST	11:30-12:15	EAST
	17:44	9.8	5.3	15:05-18:00	EAST	16:45-18:00	EAST
	21:08	10.5	0.7	18:00-21:30	WEST	18:00-21:30	WEST
				21:30-00:00	EAST	21:30-22:40	EAST
2010/11/13	04:03	5.6	4.9	10:40-12:10	WEST	11:30-12:10	WEST
	11:41	14.8	9.2	12:10-14:15	EAST	12:10-13:00	EAST
	18:48	8.9	5.9	16:25-19:05	EAST	17:50-19:05	EAST
	22:48	10.2	1.3	19:05-22:55	WEST	19:05-22:55	WEST
				22:55-03:50	EAST	22:55-00:15	EAST
2010/11/14	04:53	6.6	3.6	05:55-07:15	WEST	05:55-06:20	WEST
	12:21	14.4	7.8	11:15-12:55	WEST	12:10-12:55	WEST
	19:36	7.9	6.5	12:55-14:45	EAST	12:55-13:40	EAST
				17:45-20:00	EAST	18:55-20:00	EAST
				20:00-00:40	WEST	20:00-21:55	WEST
					22:35-00:40	WEST	
2010/11/15	00:52	10.2	2.3	00:40-06:25	EAST	00:40-02:00	EAST
	05:53	7.9	2.3	06:25-08:25	WEST	05:20-06:25	EAST
	12:57	14.1	6.2	11:45-13:30	WEST	06:25-07:20	WEST
	20:14	6.9	7.2	13:30-15:10	EAST	12:45-13:30	WEST
				18:50-19:25	EAST	13:30-14:15	EAST
			21:05-02:15	WEST	21:05-21:50	WEST	
2010/11/16	02:23	10.8	3.9	02:15-07:25	EAST	01:00-02:15	WEST
	07:03	8.9	1.9	07:25-09:35	WEST	02:15-03:35	EAST
	13:30	14.1	5.2	12:15-14:05	WEST	06:10-07:25	EAST
	20:48	5.9	8.2	14:05-15:35	EAST	07:25-08:25	WEST
				22:40-23:25	WEST	13:15-14:05	WEST
					14:05-14:45	EAST	
2010/11/17	03:27	11.8	5.9	01:05-03:30	WEST	02:30-03:30	WEST
	08:12	9.5	2.3	03:30-08:25	EAST	03:30-04:45	EAST
	13:59	13.8	4.3	08:25-10:45	WEST	07:10-08:25	EAST
	21:21	4.9	8.9	12:35-14:30	WEST	08:25-09:25	WEST
				14:30-16:00	EAST	13:45-14:30	WEST
					14:30-15:15	EAST	

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/18	04:18	12.8	7.9	02:40-04:30	WEST	03:40-04:30	WEST
	09:10	10.2	2.6	04:30-09:25	EAST	04:30-05:35	EAST
	14:28	13.8	3.6	09:25-15:00	WEST	08:15-09:25	EAST
	21:53	3.9	9.9	15:00-16:25	EAST	09:25-10:25	WEST
							14:10-15:00
						15:00-15:40	EAST
2010/11/19	05:03	13.8	9.9	03:45-05:20	WEST	04:35-05:20	WEST
	09:59	10.5	3.3	05:20-10:15	EAST	05:20-06:15	EAST
	14:57	13.8	3.3	10:15-15:25	WEST	09:10-10:15	EAST
	22:25	3.3	10.5	15:25-16:45	EAST	10:15-11:20	WEST
							14:35-15:25
						15:25-16:05	EAST
2010/11/20	05:44	14.4	11.1	04:40-06:05	WEST	05:25-06:05	WEST
	10:42	10.8	3.6	06:05-11:05	EAST	06:05-06:55	EAST
	15:27	13.8	3.0	11:05-15:50	WEST	10:05-11:05	EAST
	22:59	2.6	11.2	15:50-17:15	EAST	11:05-12:10	WEST
							15:00-15:50
						15:50-16:35	EAST
2010/11/21	06:23	14.8	12.2	05:30-06:45	WEST	06:10-06:45	WEST
	11:23	11.2	3.6	06:45-11:50	EAST	06:45-07:35	EAST
	15:57	13.8	2.6	11:50-16:20	WEST	10:50-11:50	EAST
	23:34	2.0	11.8	16:20-17:45	EAST	11:50-13:00	WEST
							15:25-16:20
						16:20-17:05	EAST
2010/11/22	07:02	15.4	13.4	06:15-07:30	WEST	06:50-07:30	WEST
	12:05	11.5	3.9	07:30-12:35	EAST	07:30-08:15	EAST
	16:30	13.8	2.3	12:35-16:55	WEST	11:35-12:35	EAST
				16:55-18:15	EAST	12:35-13:45	WEST
							15:55-16:55
						16:55-17:35	EAST
2010/11/23	00:11	1.6	12.2	06:55-08:10	WEST	07:35-08:10	WEST
	07:42	15.4	13.8	08:10-13:20	EAST	08:10-08:55	EAST
	12:49	11.5	3.9	13:20-17:35	WEST	12:20-13:20	EAST
	17:07	13.8	2.3	17:35-18:55	EAST	13:20-14:30	WEST
							16:35-17:35
						17:35-18:15	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/24	00:50	1.6	12.2	07:40-08:50	WEST	08:15-08:50	WEST
	08:22	15.7	14.1	08:50-14:05	EAST	08:50-09:35	EAST
	13:39	11.5	4.2	14:05-18:20	WEST	13:05-14:05	EAST
	17:48	13.5	2.0	18:20-19:40	EAST	14:05-15:15	WEST
						17:20-18:20	WEST
						18:20-19:00	EAST
2010/11/25	01:30	2.0	11.5	08:20-09:35	WEST	08:55-09:35	WEST
	09:03	15.7	13.7	09:35-11:50	EAST	09:35-10:15	EAST
	14:38	11.2	4.5	12:10-14:55	EAST	13:55-14:55	EAST
	18:39	12.8	1.6	14:55-19:10	WEST	14:55-16:05	WEST
				19:10-20:35	EAST	18:05-19:10	WEST
					19:10-19:50	EAST	
2010/11/26	02:14	2.3	10.5	09:05-10:15	WEST	09:40-10:15	WEST
	09:44	15.7	13.4	10:15-12:10	EAST	10:15-10:55	EAST
	15:45	10.5	5.2	13:35-15:55	EAST	14:55-15:55	EAST
	19:44	12.1	1.6	15:55-20:05	WEST	15:55-17:10	WEST
				20:05-21:40	EAST	19:00-20:05	WEST
					20:05-20:55	EAST	
2010/11/27	02:59	3.3	8.8	09:45-10:55	WEST	10:20-10:55	WEST
	10:26	15.7	12.4	10:55-12:35	EAST	10:55-11:35	EAST
	16:55	9.5	6.2	14:55-17:00	EAST	16:05-17:00	EAST
	21:06	11.2	1.7	17:00-21:20	WEST	17:00-18:15	WEST
				21:20-23:05	EAST	20:10-21:20	WEST
					21:20-22:10	EAST	
2010/11/28	03:49	4.6	6.6	10:25-11:40	WEST	11:05-11:40	WEST
	11:08	15.7	11.1	11:40-13:05	EAST	11:40-12:15	EAST
	17:59	8.2	7.5	16:20-18:10	EAST	17:20-18:10	EAST
	22:42	10.8	2.6	18:10-22:55	WEST	18:10-19:15	WEST
				22:55-00:50	EAST	21:50-22:55	WEST
					22:55-23:50	EAST	
2010/11/29	04:44	5.9	4.9			11:45-12:20	WEST
	11:48	15.7	9.8	11:05-12:20	WEST	12:20-12:55	EAST
	18:56	6.6	9.1	12:20-13:40	EAST	19:55-20:05	WEST
				19:55-00:40	WEST	23:45-00:40	WEST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/11/30	00:31	10.8	4.2	00:40-03:20	EAST	00:40-01:40	EAST
	05:48	7.5	3.3	03:50-06:20	EAST	05:30-06:20	EAST
	12:28	15.4	7.9	06:20-07:55	WEST	06:20-07:05	WEST
	19:46	4.9	10.5	11:40-13:00	WEST	12:25-13:00	WEST
					13:00-14:15	EAST	13:00-13:35

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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 PLANNING OF TRANSITS

VANCOUVER PORT AUTHORITY
 SECOND NARROWS MRA STANDING ORDER
 APPENDIX A
 TRANSIT PERIODS - DEEP SEA VESSELS December 2010
 TIME IN PACIFIC STANDARD TIME (ZONE +8)
 TIDE HEIGHTS IN FEET ABOVE CHART DATUM

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/01	02:13	11.8	6.9	00:40-02:25	WEST	01:35-02:25	WEST
	07:01	9.2	2.6	02:25-07:30	EAST	02:25-03:20	EAST
	13:07	15.4	6.2	07:30-09:15	WEST	06:35-07:30	EAST
	20:32	3.6	11.8	12:15-13:40	WEST	07:30-08:20	WEST
				13:40-14:50	EAST	13:05-13:40	WEST
						13:40-14:15	EAST
2010/12/02	03:32	13.1	9.5	02:25-03:50	WEST	03:10-03:50	WEST
	08:16	10.2	2.9	03:50-08:45	EAST	03:50-04:45	EAST
	13:47	15.1	4.9	08:45-10:40	WEST	07:50-08:45	EAST
	21:18	2.3	12.8	12:40-14:20	WEST	08:45-09:35	WEST
				14:20-15:30	EAST	13:40-14:20	WEST
						14:20-14:55	EAST
2010/12/03	04:35	14.1	11.8	03:45-05:00	WEST	04:20-05:00	WEST
	09:25	10.8	3.3	05:00-09:55	EAST	05:00-05:45	EAST
	14:28	14.8	4.0	09:55-12:25	WEST	09:00-09:55	EAST
	22:02	1.6	13.2	12:50-15:00	WEST	09:55-10:45	WEST
				15:00-16:10	EAST	14:20-15:00	WEST
						15:00-15:35	EAST
2010/12/04	05:27	15.1	13.5	04:45-05:55	WEST	05:20-05:55	WEST
	10:25	11.5	3.6	05:55-11:00	EAST	05:55-06:35	EAST
	15:10	14.4	2.9	11:00-15:40	WEST	10:05-11:00	EAST
	22:46	1.0	13.4	15:40-16:50	EAST	11:00-11:55	WEST
						15:40-16:15	EAST
2010/12/05	06:13	15.4	14.4	05:40-06:45	WEST	06:15-06:45	WEST
	11:20	11.5	3.9	06:45-08:35	EAST	06:45-07:25	EAST
	15:54	14.4	2.9	09:50-11:55	EAST	11:05-11:55	EAST
	23:29	1.0	13.4	11:55-16:20	WEST	11:55-12:55	WEST
				16:20-17:35	EAST	15:35-16:20	WEST
						16:20-17:00	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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 PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/06	06:56	15.7	14.7	06:25-07:30	WEST	07:00-07:30	WEST
	12:11	11.5	4.2	07:30-09:10	EAST	07:30-08:10	EAST
	16:37	14.1	2.6	10:50-12:50	EAST	12:00-12:50	EAST
				12:50-17:05	WEST	12:50-13:55	WEST
				17:05-18:20	EAST	16:10-17:05	WEST
						17:05-17:45	EAST
2010/12/07	00:11	1.3	12.8	07:05-08:10	WEST	07:40-08:10	WEST
	07:36	16.1	14.8	08:10-09:50	EAST	08:10-08:50	EAST
	13:01	11.2	4.9	11:40-13:45	EAST	12:50-13:45	EAST
	17:21	13.5	2.3	13:45-17:50	WEST	13:45-14:50	WEST
				17:50-19:10	EAST	16:50-17:50	WEST
						17:50-18:30	EAST
2010/12/08	00:51	1.6	11.9	07:45-08:50	WEST	08:20-08:50	WEST
	08:15	16.1	14.5	08:50-10:25	EAST	08:50-09:30	EAST
	13:54	10.8	5.3	12:30-14:35	EAST	13:40-14:35	EAST
	18:05	12.8	2.0	14:35-18:35	WEST	14:35-15:45	WEST
				18:35-20:00	EAST	17:25-18:35	WEST
						18:35-19:15	EAST
2010/12/09	01:28	2.3	10.5	08:20-09:25	WEST	08:55-09:25	WEST
	08:53	15.7	13.4	09:25-11:05	EAST	09:25-10:05	EAST
	14:51	10.5	5.2	13:20-15:25	EAST	14:25-15:25	EAST
	18:51	12.1	1.6	15:25-19:20	WEST	15:25-16:50	WEST
				19:20-20:55	EAST	18:00-19:20	WEST
						19:20-20:10	EAST
2010/12/10	02:03	3.3	8.8	08:50-10:00	WEST	09:25-10:00	WEST
	09:29	15.7	12.4	10:00-11:40	EAST	10:00-10:40	EAST
	15:51	9.8	5.9	14:10-16:15	EAST	15:15-16:15	EAST
	19:45	11.5	1.7	16:15-20:10	WEST	16:15-20:10	WEST
				20:10-22:05	EAST	20:10-21:05	EAST
2010/12/11	02:37	4.6	6.9	09:20-10:35	WEST	10:00-10:35	WEST
	10:03	15.4	10.8	10:35-12:10	EAST	10:35-11:15	EAST
	16:53	9.2	6.2	15:00-17:10	EAST	16:10-17:10	EAST
	20:52	10.5	1.3	17:10-21:10	WEST	17:10-21:10	WEST
				21:10-23:30	EAST	21:10-22:15	EAST

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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/12	03:11	5.9	4.6			10:30-11:10	WEST
	10:35	15.1	9.2	09:45-11:10	WEST	11:10-11:50	EAST
	17:49	8.2	6.9	11:10-12:45	EAST	17:05-18:10	EAST
	22:20	9.8	1.6	16:00-18:10	EAST	18:10-22:30	WEST
				18:10-22:30	WEST	22:30-23:45	EAST
				22:30-04:25	EAST		
2010/12/13	03:47	7.2	2.6	04:25-06:15	WEST	03:30-04:25	EAST
	11:05	14.8	7.6	10:05-11:40	WEST	04:25-05:15	WEST
	18:38	7.2	7.6	11:40-13:20	EAST	10:55-11:40	WEST
				17:00-19:00	EAST	11:40-12:25	EAST
				19:00-00:05	WEST	18:00-19:00	EAST
						19:00-20:25	WEST
					22:30-00:05	WEST	
2010/12/14	00:25	10.2	3.0	00:05-05:10	EAST	00:05-01:45	EAST
	04:31	8.9	1.3	05:10-07:30	WEST	03:45-05:10	EAST
	11:35	14.4	5.5	10:20-12:15	WEST	05:10-06:15	WEST
	19:21	6.2	8.2	12:15-13:50	EAST	11:25-12:15	WEST
				21:00-01:50	WEST	12:15-13:00	EAST
2010/12/15	02:11	10.8	4.6	01:50-06:10	EAST	00:25-01:50	WEST
	05:33	10.2	0.6	06:10-09:20	WEST	01:50-06:10	EAST
	12:06	14.1	3.9	10:10-12:45	WEST	06:10-07:25	WEST
	19:59	5.2	8.9	12:45-14:25	EAST	11:50-12:45	WEST
						12:45-13:30	EAST
2010/12/16	03:22	12.1	6.9	00:40-03:20	WEST	02:05-03:20	WEST
	06:59	11.2	0.9	03:20-07:20	EAST	03:20-07:20	EAST
	12:40	14.1	2.9	07:20-13:15	WEST	07:20-08:45	WEST
	20:38	4.3	9.8	13:15-14:55	EAST	12:20-13:15	WEST
						13:15-14:05	EAST
2010/12/17	04:14	13.1	8.8	02:20-04:25	WEST	03:25-04:25	WEST
	08:22	11.8	1.3	04:25-08:40	EAST	04:25-08:40	EAST
	13:16	13.8	2.0	08:40-13:50	WEST	08:40-10:05	WEST
	21:15	3.3	10.5	13:50-15:25	EAST	12:45-13:50	WEST
						13:50-14:40	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/18	04:58	14.1	10.8	03:30-05:15	WEST	04:25-05:15	WEST
	09:27	12.1	2.0	05:15-09:45	EAST	05:15-06:40	EAST
	13:54	14.1	2.0	09:45-14:25	WEST	08:05-09:45	EAST
	21:54	2.6	11.5	14:25-16:00	EAST	09:45-11:15	WEST
							13:15-14:25
						14:25-15:15	EAST
2010/12/19	05:37	14.8	12.2	04:30-06:00	WEST	05:15-06:00	WEST
	10:19	12.1	2.7	06:00-10:45	EAST	06:00-07:00	EAST
	14:35	14.1	2.0	10:45-15:05	WEST	09:25-10:45	EAST
	22:33	2.0	12.1	15:05-16:35	EAST	10:45-12:05	WEST
						14:00-15:05	WEST
						15:05-15:50	EAST
2010/12/20	06:14	15.1	13.1	05:20-06:40	WEST	06:00-06:40	WEST
	11:05	12.1	3.0	06:40-11:30	EAST	06:40-07:30	EAST
	15:19	14.1	2.0	11:30-15:50	WEST	10:25-11:30	EAST
	23:13	1.3	12.8	15:50-17:15	EAST	11:30-12:45	WEST
						14:50-15:50	WEST
						15:50-16:30	EAST
2010/12/21	06:49	15.4	14.1	06:05-07:15	WEST	06:40-07:15	WEST
	11:51	11.8	3.6	07:15-12:15	EAST	07:15-08:00	EAST
	16:07	14.1	2.3	12:15-16:35	WEST	11:20-12:15	EAST
	23:53	1.0	13.1	16:35-17:55	EAST	12:15-13:25	WEST
							15:40-16:35
						16:35-17:15	EAST
2010/12/22	07:24	15.7	14.7	06:45-07:50	WEST	07:20-07:50	WEST
	12:38	11.5	4.2	07:50-09:45	EAST	07:50-08:30	EAST
	16:58	14.1	2.6	10:45-13:05	EAST	12:10-13:05	EAST
				13:05-17:25	WEST	13:05-14:00	WEST
				17:25-18:40	EAST	16:35-17:25	WEST
						17:25-18:05	EAST
2010/12/23	00:34	1.0	13.1	07:25-08:30	WEST	07:55-08:30	WEST
	07:58	16.1	15.1	08:30-10:00	EAST	08:30-09:05	EAST
	13:28	11.2	4.9	12:00-13:50	EAST	13:05-13:50	EAST
	17:53	13.8	2.6	13:50-18:20	WEST	13:50-14:45	WEST
				18:20-19:30	EAST	17:35-18:20	WEST
						18:20-18:55	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/24	01:15	1.6	12.2	08:00-09:05	WEST	08:35-09:05	WEST
	08:32	16.1	14.5	09:05-10:25	EAST	09:05-09:35	EAST
	14:23	10.2	5.9	13:05-14:40	EAST	13:55-14:40	EAST
	18:55	13.1	2.9	14:40-19:15	WEST	14:40-15:30	WEST
				19:15-20:30	EAST	18:35-19:15	WEST
						19:15-19:55	EAST
2010/12/25	01:56	2.6	10.5	08:40-09:40	WEST	09:10-09:40	WEST
	09:07	16.4	13.8	09:40-10:50	EAST	09:40-10:10	EAST
	15:22	9.2	7.2	14:05-15:35	EAST	14:55-15:35	EAST
	20:02	12.1	2.9	15:35-20:20	WEST	15:35-16:25	WEST
				20:20-21:40	EAST	19:35-20:20	WEST
						20:20-21:00	EAST
2010/12/26	02:39	3.9	8.2	09:10-10:15	WEST	09:45-10:15	WEST
	09:43	16.4	12.5	10:15-11:25	EAST	10:15-10:45	EAST
	16:22	7.9	8.5	15:10-16:35	EAST	15:55-16:35	EAST
	21:20	11.5	3.6	16:35-21:35	WEST	16:35-17:25	WEST
				21:35-23:10	EAST	20:50-21:35	WEST
						21:35-22:20	EAST
2010/12/27	03:23	5.6	5.9	09:40-10:50	WEST	10:20-10:50	WEST
	10:19	16.1	10.5	10:50-12:00	EAST	10:50-11:20	EAST
	17:21	6.6	9.5			22:15-23:05	WEST
	22:54	11.2	4.6	18:30-19:35	WEST	23:05-00:00	EAST
				21:00-23:05	WEST		
			23:05-01:15	EAST			
2010/12/28	04:13	7.5	3.7	02:50-04:45	EAST	04:00-04:45	EAST
	10:56	16.1	8.6	04:45-06:15	WEST	04:45-05:25	WEST
	18:18	5.2	10.9	10:10-11:25	WEST	10:50-11:25	WEST
				11:25-12:40	EAST	11:25-12:00	EAST
				22:55-00:55	WEST		
2010/12/29	00:47	11.5	6.3	00:55-05:45	EAST	00:00-00:55	WEST
	05:15	9.5	2.0	05:45-07:45	WEST	00:55-02:00	EAST
	11:34	15.4	5.9	10:30-12:05	WEST	04:45-05:45	EAST
	19:12	3.9	11.5	12:05-13:20	EAST	05:45-06:40	WEST
						11:25-12:05	WEST
						12:05-12:40	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
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PLANNING OF TRANSITS

YYYY/MM/DD	TIMES	HEIGHTS	RANGES	OPERATIONAL TIME FRAMES			
				2 KNOT CURRENT		1 KNOT CURRENT	
				PERIOD	DIR	PERIOD	DIR
2010/12/30	02:29	12.5	8.6	00:50-02:40	WEST	01:45-02:40	WEST
	06:36	10.8	1.7	02:40-07:05	EAST	02:40-04:00	EAST
	12:15	15.1	4.3	07:05-12:50	WEST	05:35-07:05	EAST
	20:04	3.0	12.1	12:50-14:10	EAST	07:05-08:10	WEST
							12:00-12:50
						12:50-13:30	EAST
2010/12/31	03:44	13.5	10.5	02:25-04:05	WEST	03:15-04:05	WEST
	08:05	11.8	1.7	04:05-08:30	EAST	04:05-05:20	EAST
	13:01	14.8	3.0	08:30-13:35	WEST	07:05-08:30	EAST
	20:55	2.3	12.5	13:35-15:00	EAST	08:30-09:45	WEST
							12:40-13:35
						13:35-14:15	EAST

INFORMATION IN COLUMN UNDER "OPERATIONAL TIME FRAMES" IS
BASED ON 1 KNOT CURRENT INCLUDED TO ASSIST IN OPERATIONAL
PLANNING OF TRANSITS