PASSAGE PLAN

M/V	INDIGO FELICITY		
From	MIZUSHIMA, JAPAN		
To	VANCOUVER,WA USA		
Next Voyage No.	11		
Date of Report	02ND FEBRUARY 2015		
Departure Date / Time	02ND FEBRUARY 2015		
Distance to Go	4703 NMILES		
Average Speed	13.5		
Zone Description of	MIZUSHIMA, JAPAN	-9	
Zone Description of	VANCOUVER,USA	8	
Cargoes of Kind / Qty	NIL	NIL	
Ballast Water	8427 MT	5465 MT	
HFO incl. Other FO	777.60 MT	500 MT	
MDO incl. Other DO or GO	17.76 MT	17 MT	
Fresh Water	110 MT	110 MT	
Drinking Water	44 MT	38 MT	
Draft FWD Dep./Arr.	4.19 M	(FW) 4.30 M	
Draft AFT Dep./Arr.	5.60 M	(FW) 5.60 M	
Click box	☐ LADEN	☑ BALLAST	
Time Difference to	-9	8	7
Master's Name	CAPT. RENATO C. ORLEANS		

Reference Charts and Publications
BA CHART : 996-4510-4522-4805-4806-4801-2531-2839-2849
JPN CHART: JP 1127A- JP137B- W1122-JP137A-JP106-JP131- JP150A-JP150C- JP77
BA PUBLICATION NP281(1)- NP 281(2)- NP 292 - NP283 (3)- NP284 -NP285- NP286(5)- NP 286(6)
SEA PILOT OF JAPA NP41 -NP42A -NP42B - NP42C JAPAN SEA PILOT-NP8-NP25-NP26-BRITISH COL. PILOT
GUIDE TO PORT ENTRY PLAN AND TXT
TIDE TABLES 203 VOL.3 AND 204 VOL. 4
PRECAUTIONS DURING NEXT NAVIGATION
FOLLOW MASTER'S STANDING ORDER / WINTER PRECAUTIONARY MEASURES/ ICE ADVISORY WEATHER
OBSERVED COLREG/ REPORTING VTIS/ VTS AREA / MONITOR DEPTH SOUNDINGS BY ECHO SOUNDER
AVOID CLOSE QUARTER SITUATION / HAND STEERING DURING NARROW CHANNELS / TRAFFIC ZONE
KEEP SHARP LOOK OUT ALL THE TIME/ KEEP CLEAR TO THE NO GO AREA
KEEP WELL CLEAR OF FISHING VESSELS SPECIALLY DRIFT NETS.
ENVIRONMENTAL PROTECTION/ NO GARBAGE DISPOSAL AT SEA (JAPAN & VANCOUVER,WA,USA)
ETA ECA AREA 15TH DIA 2200mc, ADVISE B/R EXCHANGE TO LEMOO / MONITORING VHF / WEATHER FACSIMILE

	Spd/Knots	Days	Hours	Minute	ETA COL RIVER P/S
Steaming Time	12.50	15	1	0	17th Feb. 0848 LT
	13.00	14	10	23	16th Feb. 1811 LT
	13.50	13	21	53	16th Feb. 0521 LT

PILOT TO PILOT : 4503 NM

VERIFICATION :

Capt. RENATO C. ORLEANS

C/O ARNEL G. ARIOLA

2/O DIONOPER M.L. ABRAGAN

3/O ISABEL D S. OLANDESCA

VOY.No. 11 FROM : MIZUSHIMA, JAPAN TO: VANCHUVER, WA DRAFT : M (F) 4.19 M (A) 5.66 M at DENSITY - 1.025

1	WAY POINT (Dist.& Bearing)	Position (Latitude/Longitude)	Heading Gyro	Heading Standard	Dist. on Leg	Dist. from	Dist. to GO	Usual Speed	Time on log	XTE Cross Track Err.	Watch Level	Position Fixing Method	Position Fixing Freq/cy	UKC and Squat.		Capt. Call (Y/N)	CHART NUMBER (P.Datum, as follows)	NOTES (Order,Distretns, VHF, Safe Anchorage and port etc.)
1	MIZUSHIMA BERTH	34 30.77 N / 133 44.24 E				0.00	4702.80		0.00	0.1	2	RDR / GPS	5 MINS	6.58	0.18	Y	JPN JP1127A 12	OBS. COURSE/TRAFFIC REP.FOR ROR , RO - 27.6.0 MT DO - 17.0 MT
2	FAIRWAY BUOY	34 30.65 N / 133 44.83 E	VCO		0.20	0.20	4702.60	5.00	0.00	0.1	2	RDR / GPS	10 MINS	6.58	0.18	Y	JPN 1127A 12	OBS. COURSE/TRAFFIC REP. Manual steering
3	FAIRWAY BUOY	34 29.90 N / 133 45.37 E	180		0.80	0.80	4701.80	9.60	0.00	0.1	2	RDR / GPS	15 MINS	10.71	0.31	Y	JPN 1127A 16	OBS. COURSE/TRAFFIC REP. Manual steering
4	FAIRWAY BUOY	34 26.70 N / 133 45.72 E	160		3.40	3.40	4698.40	9.50	0.00	0.1	2	RDR / GPS	15 MINS	15.65	0.24	Y	JPN JP1127 21	OBS. COURSE/TRAFFIC REP. Manual steering
5	FAIRWAY BUOY	34 25.10 N / 133 47.20 E	143		2.60	2.60	4696.40	10.00	0.00	0.1	2	RDR / GPS	15 MINS	17.62	0.22	Y	JPN JP1137B 24	OBS. COURSE/TRAFFIC REP.FOR Manual steering
6	OKINOISHI	34 23.70 N / 133 48.30 E	159		2.60	2.60	4693.80	12.00	0.00	0.1	2	RDR / GPS	15 MINS	15.64	0.24	Y	JPN JP1137B 21	OBS. COURSE/TRAFFIC REP. Lookout for small boats
7	OKINOISHI	34 21.85 N / 133 48.50 E	168		0.90	0.90	4692.90	12.00	0.00	0.1	2	RDR / GPS	15 MINS	14.65	0.25	Y	JPN JP1137B 20	OBSERVED COURSE/TRAFFIC REP. Manual steering
8	FAIRWAY BUOY	34 21.85 N / 133 49.50 E	090		0.60	0.60	4692.30	12.00	0.00	0.1	2	RDR / GPS	15 MINS	14.65	0.25	Y	JPN JP1137B 20	OBS. COURSE/TRAFFIC REP. Lookout for small boats
9	FAIRWAY BUOY	34 22.30 N / 133 50.33 E	050		1.30	1.30	4690.60	12.00	0.00	0.1	2	RDR / GPS	15 MINS	59.48	0.08	N	JPN JP1137A 65	OBS. COURSE/TRAFFIC REP. Look out for small boats
10	BUOY NO. 2	34 24.60 N / 133 56.80 E	069		5.40	5.40	4685.40	12.00	0.00	0.1	2	RDR / GPS	15 MINS	45.50	0.11	N	JPN JP1137A 51	OBS. COURSE/TRAFFIC REP. Look out for small boats
11	ISO NO. 3	34 25.40 N / 134 1.05 E	077		3.60	3.60	4681.80	12.00	0.00	0.1	2	RDR / GPS	15 MINS	36.52	0.12	Y	JPN JP1137A 42	OBS. COURSE/TRAFFIC REP. Hand steering/lookout for small boats
12	ISO NO. 4	34 26.50 N / 134 3.60 E	062		2.40	2.40	4679.40	12.00	0.00	0.1	2	RDR / GPS	15 MINS	34.52	0.12	Y	JPN JP1137A 40	OBS. COURSE/TRAFFIC REP. Hand steering/lookout for small boats
13	KANAWA WAN	34 25.80 N / 134 8.30 E	108		4.00	4.00	4675.40	12.00	0.00	0.1	2	RDR / GPS	15 MINS	46.50	0.11	Y	JPN JP1137A 52	OBS. COURSE/TRAFFIC REP. Hand steering/lookout for small boats
14	ISO NO. 7	34 23.71 N / 134 13.75 E	115		5.00	5.00	4670.40	8.00	0.00	0.1	2	RDR / GPS	15 MINS	26.50	0.16	Y	JPN JP1137A 32	OBS. COURSE/TRAFFIC REP. Hand steering/lookout for small boats
15	ISO NO. 8	34 23.85 N / 134 20.98 E	087		5.90	5.90	4664.50	10.00	0.00	0.1	2	RDR / GPS	15 MINS	29.56	0.14	Y	JPN JP106 35	OBSERVED COURSE/TRAFFIC REP. Hand steering/lookout for small boats
16	ISO NO. 9	34 24.60 N / 134 31.40 E	068		27.10	27.10	4637.30	10.00	0.00	0.1	2	RDR / GPS	10 MINS	25.56	0.16	Y	JPN JP106 31	OBSERVED COURSE/TRAFFIC REP.FOR Hand steering/lookout for small boats
17	AKASHI KAIKYO	34 37.10 N / 134 58.90 E	063		6.90	6.90	4630.40	12.00	0.00	0.1	2	RDR / GPS	10 MINS	47.49	0.09	Y	JPN JP106 52	OBSERVED COURSE/TRAFFIC REP. Hand steering/lookout for small boats
18	AKASHI KAIKYO	34 37.20 N / 135 0.50 E	056		1.30	1.30	4629.10	12.00	0.00	0.1	2	RDR / GPS	10 MINS	86.45	0.05	Y	JPN JP131 92	OBSERVED COURSE/TRAFFIC REP. Hand steering/lookout for small boats
19	RACON	34 34.10 N / 135 5.60 E	125		5.40	5.40	4623.70	12.00	0.00	0.1	2	RDR / GPS	10 MINS	52.49	0.09	Y	JPN JP131 55	OBS. COURSE/TRAFFIC REP. Pilot exchange
20	RACON	34 21.30 N / 135 0.00 E	201		13.70	13.70	4610.00	12.00	0.00	0.1	2	RDR / GPS	15 MINS	52.49	0.09	Y	JPN JP156A 58	OBSERVED COURSE/TRAFFIC REP.FOR Manual steering
21	YURASETO	34 17.30 N / 134 58.40 E	198		4.20	4.20	4605.80	12.00	0.00	0.1	2	RDR / GPS	15 MINS	69.45	0.08	Y	JPN JP156C 66	OBSERVED COURSE/TRAFFIC REP.FOR Manual steering
22	YURASETO	34 15.40 N 134 58.40 E	180		1.90	1.90	4603.90	12.00	0.00	0.1	2	RDR / GPS	10 MINS	52.49	0.09	Y	JPN JP156C 58	OBSERVED COURSE/TRAFFIC REP.FOR Manual steering / look out for small boats
23	HINOGASHIMA PIER	34 10.10 N 134 59.80 E	168		5.40	5.40	4598.50	15.50	0.00	0.1	2	RDR / GPS	10 MINS	55.54	0.08	Y	JPN JP156C 61	OBSERVED COURSE/TRAFFIC REP.FOR Port will disembark
24	HINO MISAKI	33 58.00 N 134 59.90 E	160		20.10	20.10	4578.40	13.50	0.00	0.1	2	RDR / GPS	30 MINS	46.50	0.11	Y	JPN JP156C 52	OBSERVED COURSE/TRAFFIC REP.FOR Manual steering / look out for small boats
25	INOMARU HANA	33 30.20 N 135 19.60 E	141		25.40	25.40	4553.00		0.00	0.1	2	RDR / GPS	1 HR	603.41	0.01	Y	JPN JP73 607	OBSERVED COURSE/TRAFFIC REP.FOR Manual steering / look out for small boats

26	SHIONO MISAKI	33	21.80	N	135	48.60	E	111		26.00	26.00	4527.00	13.50	0.00	0.1	2	RDR / GPS	1 HR	1194.4	0.01	N	JPN JP93 1289	OBSERVED COLREG/TRAFFIC REP.PORT RDR : FO - 795 MT/DO- 17.26 MT
27	NOJIMA SAKI	34	28.00	N	140	0.00	E	074		218.40	218.40	4709.60	13.50	0.00	0.1	2	RDR / GPS	1 HR	1137.4	0.01	N	BA: 596 1165	OBS. COLREG/TRAFFIC REP.PORT Looked for small boats
28	N. PACIFIC OCEAN	40	8.40	N	150	0.00	E	054		592.50	592.50	3216.10	13.50	0.00	0.1	2	RDR / GPS	1 HR	4721.4	0.01	N	BA: 4510 4739	OBS. COLREG / Will exchange RDR : FO - 729 MT/DO- 17.26 MT
29	N. PACIFIC OCEAN	41	21.60	N	160	0.00	E	060		512.40	512.40	3203.70	13.50	0.00	0.1	2	RDR / GPS	1 HR	4562.4	0.01	N	BA: 4522 4598	OBS. COLREG/Will exchange RDR : FO - 692 MT/DO- 17.26 MT
30	N. PACIFIC OCEAN	47	16.60	N	170	0.00	E	067		454.50	454.50	2749.20	13.50	0.00	0.1	2	RDR / GPS	1 HR	4220.4	0.01	N	BA: 4522 4226	OBS. COLREG RDR : FO - 667 MT/DO- 17.26 MT
31	N. PACIFIC OCEAN	49	5.60	N	180	0.00	W	075		415.90	415.90	2335.30	13.50	0.00	0.1	2	RDR / GPS	1 HR	4123.4	0.01	N	BA: 4522 4129	OBSERVED COLREG RDR : FO - 653 MT/DO- 17.26 MT
32	N. PACIFIC OCEAN	50	0.00	N	170	0.00	W	082		394.00	394.00	1939.30	13.50	0.00	0.1	2	RDR / GPS	1 HR	4009.4	0.01	N	BA: 4505 4015	OBSERVED COLREG/TRAFFIC REP.PORT RDR : FO - 633 MT/DO- 17.26 MT
33	N. PACIFIC OCEAN	50	0.00	N	155	0.00	W	090		578.50	578.50	1360.80	13.50	0.00	0.1	2	RDR / GPS	1 HR	4570.4	0.01	N	BA: 4805 4576	OBSERVED COLREG RDR : FO - 731 MT/DO- 17.26 MT
34	N. PACIFIC OCEAN	49	46.30	N	150	0.00	W	094		194.30	194.30	1166.50	13.50	0.00	0.1	2	RDR / GPS	1 HR	4868.4	0.01	N	BA: 4806 4874	OBSERVED COLREG RDR : FO - 570 MT/DO- 17.26 MT
35	N. PACIFIC OCEAN	48	38.60	N	140	0.00	W	100		398.50	398.50	767.70	13.50	0.00	0.1	2	RDR / GPS	1 HR	4153.4	0.01	N	BA: 4806 4159	OBSERVED COLREG RDR : FO - 547 MT/DO- 17.26 MT
36	ENTERING ECA AREA	46	15.00	N	128	53.00	W	106		474.50	474.50	293.20	13.50	0.00	0.1	2	RDR / GPS	1 HR	95.45	0.05	N	BA: 4806 101	OBS. COLREG / Exchange 5 MGO RDR : FO - 522 MT/DO- 17.26 MT
37	COLUMBIA RIVER P.STN.	46	11.50	N	124	10.33	W	091		196.20	196.20	97.00	13.50	0.00	0.1	2	RDR / GPS	15 MNS	187.43	0.03	Y	BA: 2839 199	OBS COLREG/TRAFFIC REP. PORT RDR : FO - 512 MT/DO- 17.26 MT
38	BUOY NO. 8	46	15.30	N	124	5.00	W	044		5.30	5.30	91.70	8.00	0.00	0.1	2	RDR / GPS	15 MNS	52.49	0.09	Y	BA: 2835 58	OBSERVED COLREG/TRAFFIC REP. Pos. every 15 min. / manual steering
39	BUOY NO. 11	46	15.00	N	124	2.40	W	081		1.80	1.80	89.90	8.00	0.00	0.1	2	RDR / GPS	15 MNS	75.46	0.06	Y	BA: 2839 79	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
40	BUOY NO. 12	45	15.30	N	124	1.16	W	109		0.90	0.90	89.00	12.00	0.00	0.1	2	RDR / GPS	15 MNS	91.46	0.06	Y	BA: 2839 87	OBS. COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
41	TANSY POINT	46	11.30	N	123	55.00	W	132		5.70	5.70	83.30	12.00	0.00	0.1	2	RDR / GPS	15 MNS	49.51	0.11	Y	BA: 2839 46	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
42	BUOY NO. 29	46	11.39	N	123	54.33	W	103		0.60	0.60	82.80	12.00	0.00	0.1	2	RDR / GPS	15 MNS	57.32	0.12	Y	BA: 2839 43	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
43	BUOY NO. 39	46	11.92	N	123	49.50	W	084		3.40	3.40	79.40	12.00	0.00	0.1	2	RDR / GPS	15 MNS	33.53	0.13	Y	BA: 2839 39	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
44	BUOY NO. 43	46	13.10	N	123	45.90	W	063		2.90	2.90	76.50	10.00	0.00	0.1	2	RDR / GPS	15 MNS	44.5	0.11	Y	BA: 2839 96	Exchange Pilot / Arrival time Pos. every 15 min. / manual steering
45	BUOY NO. 47	46	13.65	N	123	43.95	W	068		1.50	1.50	75.00	10.00	0.00	0.1	2	RDR / GPS	15 MNS	34.52	0.12	Y	BA: 2839 40	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
46	BUOY NO. 3	46	14.95	N	123	41.40	W	054		2.20	2.20	72.80	10.00	0.00	0.1	2	RDR / GPS	15 MNS	32.53	0.13	Y	BA: 2839 38	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
47	BUOY NO. 10	46	15.61	N	123	38.70	W	071		2.00	2.00	70.80	10.00	0.00	0.1	2	RDR / GPS	15 MNS	45.5	0.11	Y	BA: 2839 40	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
48	BUOY NO. 15	46	15.36	N	123	35.90	W	096		2.60	2.60	66.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	28.55	0.15	Y	BA: 2839 34	OBSERVED COLREG/TRAFFIC REP.PORT Pos. every 15 min. / manual steering
49	BUOY NO. 22	46	15.52	N	123	32.60	W	085		1.70	1.70	64.50	8.00	0.00	0.1	2	RDR / GPS	15 MNS	24.57	0.17	Y	BA: 2839 39	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
50	BUOY NO. 28	46	16.30	N	123	30.00	W	067		2.80	2.80	64.50	10.00	0.00	0.1	2	RDR / GPS	15 MNS	58.48	0.08	Y	BA: 2839 64	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
51	BUOY NO. 29	46	16.32	N	123	28.86	W	089		0.60	0.60	63.70	10.00	0.00	0.1	2	RDR / GPS	15 MNS	25.56	0.16	Y	BA: 2839 31	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
52	BUOY NO. 31	46	16.20	N	123	28.23	W	105		0.50	0.50	63.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	25.56	0.16	Y	BA: 2839 31	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering
53	BUOY NO. 33	46	15.90	N	123	27.60	W	114		0.50	0.50	62.70	10.00	0.00	0.1	2	RDR / GPS	15 MNS	36.52	0.12	Y	BA: 2839 47	OBSERVED COLREG/TRAFFIC REG Pos. every 15 min. / manual steering

54	BUOY NO. 37	46	14.48	N	123	25.80	W				2.90	60.70		0.00	0.1	2	RDR / GPS	15 MNS	30.54	0.14	Y	BA: 2839 36	Obs. Coling / traffic reg. Pos. every 15 min. / manual steering
55	BUOY NO. 41	46	13.18	N	123	25.42	W	168		1.20	1.20	59.50	10:00	0.00	0.1	2	RDR / GPS	15 MNS	34.52	0.12	Y	BA: 2839 40	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
56	BUOY NO. 44A	46	11.29	N	123	25.85	W	169		1.90	1.50	57.60	10:00	0.00	0.1	2	RDR / GPS	15 MNS	37.52	0.12	Y	BA: 2839 43	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
57	BUOY NO. 47	46	10.88	N	123	25.75	W	170		0.40	0.40	57.20	10:00	0.00	0.1	2	RDR / GPS	15 MNS	34.52	0.12	Y	BA: 2839 40	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
58	BUOY NO. 52	46	9.00	N	123	23.36	W	189		2.30	2.50	54.70	10:00	0.00	0.1	2	RDR / GPS	15 MNS	36.51	0.11	Y	BA: 2839 34	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
59	BUOY NO. 62	46	8.52	N	123	20.75	W	195		1.80	1.90	52.80	10:00	0.00	0.1	2	RDR / GPS	15 MNS	34.52	0.12	Y	BA: 2839 40	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
60	BUOY NO. 66	46	8.52	N	123	18.80	W	098		1.40	1.10	51.40	10:00	0.00	0.1	2	RDR / GPS	15 MNS	31.55	0.13	Y	BA: 2839 37	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
61	BUOY NO. 70	46	9.06	N	123	15.95	W	076		2.00	2.00	49.40	10:00	0.00	0.1	2	RDR / GPS	15 MNS	37.52	0.12	Y	BA: 2839 43	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
62	BUOY NO. 77	46	10.10	N	123	13.70	W	055		1.50	1.90	47.50	10:00	0.00	0.1	2	RDR / GPS	15 MNS	48.49	0.09	Y	BA: 2839 54	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
63	BUOY NO. 83	46	11.26	N	123	10.20	W	064		2.70	2.70	44.50	10:00	0.00	0.1	2	RDR / GPS	15 MNS	32.53	0.13	Y	BA: 2839 35	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
64	BUOY NO. 84	46	11.36	N	123	9.41	W	038		0.60	0.60	44.20	10:00	0.00	0.1	2	RDR / GPS	15 MNS	46.5	0.11	Y	BA: 2839 52	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
65	BUOY NO. 86	46	11.18	N	123	7.26	W	097		1.50	1.50	42.70	10:00	0.00	0.1	2	RDR / GPS	15 MNS	26.36	0.16	Y	BA: 2839 32	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
66	BUOY NO. 05	46	9.64	N	123	4.46	W	128		2.50	2.50	40.20	10:00	0.00	0.1	2	RDR / GPS	15 MNS	32.53	0.13	Y	BA: 2839 38	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
67	BUOY NO. 09	46	9.37	N	123	3.46	W	110		0.80	0.80	39.40	10:00	0.00	0.1	2	RDR / GPS	15 MNS	32.53	0.13	Y	BA: 2839 38	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
68	BUOY NO. 13	46	8.55	N	123	1.96	W	128		1.30	1.30	38.10	10:00	0.00	0.1	2	RDR / GPS	15 MNS	36.51	0.11	Y	BA: 2839 44	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
69	BUOY NO. 17	46	8.10	N	123	0.50	W	115		1.10	1.10	37.00	10:00	0.00	0.1	2	RDR / GPS	15 MNS	31.53	0.13	Y	BA: 2839 37	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering
70	LONGVIEW	46	6.60	N	122	58.41	W	136		2.10	2.10	34.60	10:00	0.00	0.1	2	RDR / GPS	15 MNS	37.52	0.12	Y	BA: 2839 43	OBSERVED COLREG/TRAFFIC REG. Pos. every 15 min. / manual steering

71	BUOY NO. 31	46 5.26 N	122 54.69 W	117		2.90	2.90	32.90	10.00	0.00	0.1	2	RDR / GPS	15 MNS	32.53	0.13	Y	BA: 2839 32	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
72	BUOY NO. 36	46 4.46 N	122 53.50 W	135		1.10	1.20	30.80	10.00	0.00	0.1	2	RDR / GPS	15 MNS	29.54	0.14	Y	BA: 2849 35	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
73	BUOY NO. 39	46 3.58 N	122 53.11 W	159		0.60	0.60	30.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	26.56	0.16	Y	BA: 2849 32	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
74	BUOY NO. 41	46 3.25 N	122 52.60 W	187		0.60	0.60	29.60	10.00	0.00	0.1	2	RDR / GPS	15 MNS	37.52	0.12	Y	BA: 2849 43	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
75	BUOY NO. 43	46 1.92 N	122 52.70 W	174		1.30	1.30	28.30	10.00	0.00	0.1	2	RDR / GPS	15 MNS	24.57	0.17	Y	BA: 2849 30	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
76	KALAMA	46 0.80 N	122 51.55 W	144		1.40	1.40	26.90	10.00	0.00	0.1	2	RDR / GPS	15 MNS	33.53	0.13	Y	BA: 2849 39	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
77	BUOY NO. 54	45 58.98 N	122 50.50 W	158		2.00	2.00	24.90	10.00	0.00	0.1	2	RDR / GPS	15 MNS	38.53	0.11	Y	BA: 2849 44	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
78	BUOY NO. 60	45 57.20 N	122 49.86 W	137		1.70	1.70	23.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	42.5	0.11	Y	BA: 2849 48	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
79	BUOY NO. 63	45 56.94 N	122 49.40 W	160		0.90	0.90	22.40	10.00	0.00	0.1	2	RDR / GPS	15 MNS	31.57	0.13	Y	BA: 2849 37	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
80	BUOY NO. 69	45 55.90 N	122 48.26 W	175		1.00	1.00	21.40	10.00	0.00	0.1	2	RDR / GPS	15 MNS	35.52	0.12	Y	BA: 2849 41	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
81	BUOY NO. 72	45 54.34 N	122 48.55 W	196		1.20	1.20	20.20	8.00	0.00	0.1	2	RDR / GPS	15 MNS	33.53	0.13	Y	BA: 2849 39	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
82	BUOY NO. 75	45 53.52 N	122 48.25 W	170		1.20	1.20	19.00	10.00	0.00	0.1	2	RDR / GPS	15 MNS	27.55	0.15	Y	BA: 2849 33	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
83	BUOY NO. 79	45 52.20 N	122 47.22 W	151		1.50	1.50	17.50	10.00	0.00	0.1	2	RDR / GPS	15 MNS	25.56	0.16	Y	BA: 2849 31	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
84	BUOY NO. 80	45 51.69 N	122 47.03 W	105		0.50	0.50	17.00	10.00	0.00	0.1	2	RDR / GPS	15 MNS	28.55	0.15	Y	BA: 2849 34	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
85	BUOY NO. 1	45 50.72 N	122 47.10 W	193		1.00	1.00	16.00	10.00	0.00	0.1	2	RDR / GPS	15 MNS	28.53	0.15	Y	BA: 2849 34	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
86	BUOY NO. 4A	45 49.72 N	122 47.07 W	282		1.10	1.10	14.90	10.00	0.00	0.1	2	RDR / GPS	15 MNS	31.53	0.13	Y	BA: 2849 37	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
87	BUOY NO. 6A	45 49.02 N	122 47.59 W	187		0.70	0.70	14.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	30.54	0.14	Y	BA: 2849 36	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
88	BUOY NO. 12	45 48.24 N	122 47.50 W	165		0.80	0.80	13.40	10.00	0.00	0.1	2	RDR / GPS	15 MNS	37.52	0.12	Y	BA: 2849 43	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
89	BUOY NO. 17	45 46.64 N	122 46.99 W	148		1.60	1.60	11.50	10.00	0.00	0.1	2	RDR / GPS	15 MNS	25.56	0.16	Y	BA: 2849 31	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
90	CAMPBELL	45 45.98 N	122 45.88 W	163		0.70	0.70	10.80	10.00	0.00	0.1	2	RDR / GPS	15 MNS	36.52	0.12	Y	BA: 2849 42	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
91	BUOY NO. 23	45 44.98 N	122 45.60 W	176		1.90	1.90	8.90	10.00	0.00	0.1	2	RDR / GPS	15 MNS	31.53	0.13	Y	BA: 2849 37	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
92	BUOY NO. 32	45 41.41 N	122 45.51 W	193		2.70	2.70	6.20	10.00	0.00	0.1	2	RDR / GPS	15 MNS	31.53	0.13	Y	BA: 2849 37	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
93	BUOY NO. 36	45 40.60 N	122 46.44 W	177		0.80	0.80	5.40	10.00	0.00	0.1	2	RDR / GPS	15 MNS	22.58	0.18	Y	BA: 2849 35	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
94	BUOY NO.	45 39.39 N	122 45.88 W	162		1.30	1.30	4.10	8.00	0.00	0.1	2	RDR / GPS	15 MNS	35.52	0.12	Y	BA: 2849 41	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
95	BUOY NO. 47	45 38.52 N	122 44.94 W	128		0.90	0.90	3.20	8.00	0.00	0.1	2	RDR / GPS	15 MNS	46.5	0.11	Y	BA: 2849 52	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
96	BUOY "B"	45 38.46 N	122 45.36 W	109		1.10	1.10	2.10	5.00	0.00	0.1	2	RDR / GPS	10 MNS	35.52	0.12	Y	BA: 2849 41	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
97	COLUMBIA RIVER	45 38.28 N	122 42.78 W	116		0.40	0.40	1.70	3.00	0.00	0.1	2	RDR / GPS	10 MNS	38.51	0.11	Y	BA: 2849 44	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering
98	VANCOUVER BERTH	45 37.56 N	122 41.39 W	126		0.70	0.70	0.00		0.00	0.1	2	RDR / GPS	5 MNS	41.51	0.11	Y	BA: 2849 47	OBS. COLREG/TRAFFIC REG Pos. every 15 min / hand steering