

4057

S. D. Maritime
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VOLUME 12

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INSTRUCTIONS

VOLUME 12
5 NOV 1899-5 MARCH 1900

Nov 5 1899 - March 5 1900

LOG BOOK.

Voyages of the

EUTERPE

Commanded by



From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	2		ESE	South	1				Light and fair heavy swell.
	2	2		"	"	"				
	3	2		"	"	"				
	4	2		"	"	"				Wind veering to the eastward
	5	2		ENE	SE by S	"				
	6	2		"	"	"				6 p.m. tacked ship.
	7	3		SW by S	"	"				Increasing to a strong breeze, squally weather
	8	3		"	"	"				
	9	4		"	"	"				
	10	4		"	"	"				
	11	5		"	"	"				Stowed main royal, fl. jib & gallant sails.
	12	5		"	"	"				
P.M.	1	4		SW	SE	"				Strong and squally.
	2	4		"	"	"				Stowed spanker.
	3	4		"	"	"				
	4	5		"	"	"				
	5	4		"	"	3				
	6	3		"	"	"				Increasing to a strong gale, squally, thick & rain.
	7	3		"	"	"				
	8	3		"	"	"				Stowed mainsail, up. top sail.
	9	2		South	ESE	5				Maintopmast staysail, jib, foonail & only lower top sail.
	10	2		"	"	"				
	11	2		"	"	"				
	12	2		"	"	"				

29.58

5 Days at sea.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
960:00	54'	0:24' S	46.8'	47:11' N	—	22° E.	1:9' W	130:50'	—

	H.	K.	1/2 K.	COURSES	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	2		SW by S	SE by S	5				Moderating & squally. very heavy sea.
	2	2		"	"	"				
	3	1		"	"	"				
	4	1		"	"	"				
	5	1		"	"	"				
	6	1		"	"	"				
	7	1		"	"	"				Moderate gale, squally.
	8	1		"	"	"				
	9	1		"	"	"				
	10	1		"	"	"				10 p.m. wind changed to NW in a squall.
	11	2		SE	SW	0				Set foresail, main lower & main up. top sail.
	12	3		"	"	"				
P.M.	1	3		"	"	"				Fresh breeze, cloudy with light rain. heavy head sea.
	2	3		"	"	"				Set maintop gallant sail
	3	4		"	"	"				
	4	4		"	"	"				
	5	4		"	WNW	"				
	6	4		"	"	"				Set main royal.
	7	4		"	"	"				
	8	4		"	"	"				Fresh breeze & cloudy.
	9	5		"	"	"				
	10	5		"	"	"				
	11	5		"	"	"				
	12	5		"	"	"				

29.72

6 Days at sea

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
912:00	52'	0:51' S	10.8'	46:20' N	46:16' N	22° E	0:16' W	131:6' W	—

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Tuesday Nov 7 th 1899										
A.M.	1	6	"	SSE	mod	0				First breeze tick with rain & heavy sea.
	2	6	"	"	"	"				
	3	6	"	"	"	"				
	4	6	"	"	"	"				
	5	6	"	"	"	"				
	6	6	"	"	"	"				
	7	6	"	"	"	"				
	8	6	"	"	"	"				
	9	6	"	"	North	"				
	10	6	"	"	"	"				
	11	4	"	"	SE	"				
	12	2	"	"	"	"				
P.M.	1	2	"	S by E	E by S	1				moderating & foggy. Wind veering to eastward. set fore & miz. up. topsail.
	2	2	"	S by S	S by S	"				light breeze, tick with light rain.
	3	2	"	"	"	"				
	4	2	"	"	"	"				
	5	3	"	"	"	"				
	6	4	"	"	"	"				
	7	4	"	South	ESE	"				Increasing to a strong breeze, no change in weather.
	8	5	"	"	"	"				
	9	5	"	S by E	E by S	"				
	10	5	"	"	"	"				stowed on main royal main top gallant sail & miz. up. topsail.
	11	5	"	"	"	"				
	12	5	"	"	"	"				

29.50

7 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 1/2 W	103'	1° 41' S	21.4'	44° 35' S	—	2 1/2 E	0° 31' W	131° 37' W	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Wednesday Nov 8 th 1899										
A.M.	1	4	"	South	ESE	1				Strong breeze, tick with heavy rain & squalls. heavy sea.
	2	3	"	S by S	S by S	2				2 p.m. cleared away set miz. up. topsail.
	3	3	"	"	"	"				
	4	2	"	"	"	"				
	5	2	"	"	"	"				
	6	2	"	"	"	"				moderate & fair
	7	2	"	"	"	"				
	8	2	"	"	"	"				
	9	2	"	S by W	S by E	"				
	10	3	"	"	"	"				
	11	3	"	S by E	E by S	"				Increasing & cloudy.
	12	3	"	"	"	"				
P.M.	1	3	"	"	"	3				Strong with heavy squalls stowed up. topsails, jib & fore sail.
	2	3	"	"	"	"				
	3	2	"	South	ESE	5				
	4	2	"	"	"	"				
	5	1	"	"	"	"				
	6	1	"	"	"	"				
	7	1	"	"	"	"				
	8	1	"	"	"	"				
	9	1	"	"	"	"				
	10	1	"	"	"	"				
	11	1	"	"	"	"				
	12	1	"	"	"	"				

29.11

8 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 61° W	46'	0° 22' S	40.2'	44° 13' S	—	20° E	0° 56' W	132° 33' W	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Thursday Nov 9 th 1899										
	1	1	"	SW	SSE	6				moderate & squally, very heavy sea. Wind changed to westward. wore ship.
	2	1	"	"	"	"				
	3	1	"	SSE	WSW	4				
	4	1	"	"	"	"				
	5	1	"	"	"	"				
	6	1	"	"	SW	"				
	7	1	"	"	"	"				strong breeze & squally.
	8	1	"	"	"	"				
	9	1	"	"	"	"				
	10	1	"	"	"	"				
	11	1	"	"	"	"				
	12	1	"	"	"	"				
	1	2	"	"	"	"				Strong breeze heavy squalls.
	2	2	"	"	"	"				
	3	2	"	"	"	"				
	4	2	"	"	"	"				
	5	2	"	SSE	"	2 1/2				set fore sail, jib & up. topsails.
	6	2	"	"	"	"				moderate & squally.
	7	2	"	"	"	"				
	8	2	"	"	"	"				
	9	3	"	SSE	S by S	1 1/2				set mainsail, fl. jib & spanker.
	10	3	"	"	"	"				
	11	3	"	"	"	"				
	12	3	"	"	"	"				

29.54

9 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 41° E	36'	0° 27' S	23.6'	43° 46' S	43° 43' S	20° E	0° 33' E	132° 0' W	132° 7' W.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday Nov 10 th 1899										
	1	3	"	S by E	S by W	1 1/2				Light & squally. heavy swell.
	2	3	"	"	"	"				
	3	2	"	"	"	"				
	4	2	"	"	"	"				
	5	2	"	"	"	"				
	6	1	"	"	"	"				6 p.m. wind changed to eastward. wore ship.
	7	1	"	South	ESE	"				
	8	1	"	"	"	"				
	9	1	"	"	"	"				
	10	1	"	"	East	"				stowed spanker & main topmast staysail.
	11	2	"	S by E	SE	0				Light & puffy tick with heavy rain. Wind veering to the North.
	12	2	"	"	North	"				
	1	4	"	SSE	SW	"				Increasing to a strong breeze with heavy squalls & rain, various veering to westward. stowed fl. jib mainsail, jib, fore & miz upper topsail.
	2	6	"	"	"	"				
	3	6	"	"	West	"				
	4	6	"	"	"	"				
	5	6	"	"	"	"				
	6	6	"	"	"	"				
	7	6	"	"	"	"				
	8	6	"	"	"	"				
	9	5	"	"	"	"				
	10	5	"	"	"	"				
	11	5	"	"	"	"				
	12	5	"	"	"	"				

29.40

29.60

10 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 8° E	81'	1° 20' S	11.3'	42° 27' S	42° 27' S	19° E	0° 15' E	131° 45' W	132° 1' W.

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Saturday 8 th Nov 11 th 1897											Monday 13 th Nov 13 th 1897										
P.M.	1	5		SSE	WSW	1/2				Fresh & squally, heavy sea. Set fore & main up, topsails, on main sail & main top gallant sail	1	1		West	SEW	6					Moderate breeze with rain, heavy sea. Wind changed to west, wore ship
	2	5		"	"	"					2	1		"	"	"					
	3	5		"	SW	"					3	1		"	"	"					
	4	5		"	"	"					4	1		"	"	"					
	5	4		SE 1/2 S	SE 1/2 S	"					5	1		SSE	West	2					
	6	4		"	"	"					6	1		"	"	"					
	7	5		SE	SEW	1					7	2		"	"	"					
	8	5		"	"	"					8	2		"	"	"					
	9	4		"	"	"					9	2		"	"	"					
	10	4		"	"	"					10	4		"	WNW	0					
	11	4		"	"	"					11	5		"	"	"					
	12	4		"	"	"					12	5		"	"	"					
P.M.	1	4		SE 1/2 E	SE 1/2 W	"				Moderate & cloudy. Fresh breeze with heavy squalls and rain.	1	5		"	"	"					Strong breeze with rain Set main up, topsail. Fore topmast staysail carried away. Set main topmast staysail & Fresh breeze & cloudy. Shifted fore upper topsail, repaired other lower topsail, & fore topmast staysail. All sails set.
	2	4		"	"	"					2	5		"	"	"					
	3	3		"	"	"					3	5		"	"	"					
	4	3		"	"	"					4	5		"	"	"					
	5	3		"	"	"					5	5		"	NW	"					
	6	3		"	"	"					6	5		"	"	"					
	7	4		"	"	"					7	5		"	"	"					
	8	4		"	"	"					8	5		"	"	"					
	9	4		"	"	"					9	6		"	SE 1/2 E	"					
	10	4		"	"	"					10	6		"	"	"					
	11	4		"	"	"					11	5		"	"	"					
	12	4		"	"	"					12	5		"	"	"					
29.68										29.80											
11 Days out										13 Days out											

29.68

11 Days out.

29.80

13 Days out.

Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.											Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.												
S 36° E 95' 1° 17' S 55.8' 41° 10' N — 19° E 1° 15' E 100° 30' W —											S 4° E 79' 1° 19' S 5.5' 39° 23' N 39° 24' N 18° E 0° 7' E 130° 5' W 129° 53' W												
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	Time day of Nov 12 th 1897	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	Time day of Nov 14 th 1897		
A.M.	1	7	E 1/2 SE	South	1/2				Light & squally moderate sea		P.M.	1	5	1/2 E	WNW	0					Fresh breeze & cloudy. heavy sea. Shifted inner jib.		
	2	7	"	"	"					2		5	"	"	"	"	"						
	3	7	"	"	"					3		5	"	"	"	"	"						
	4	7	"	"	"					4		5	"	1/2 W	"	"	"						
	5	7	"	"	"					5		6	"	"	"	"	"						
	6	7	"	"	"					6		6	"	"	"	"	"						
	7	7	"	"	"				Moderate & squally.			7	6	"	"	"	"	"					
	8	7	"	"	"							8	6	"	"	"	"	"					
	9	3	"	"	"							9	5	"	"	"	"	"					
	10	3	"	"	"							10	5	"	"	"	"	"					
	11	3	"	"	"							11	4	"	"	"	"	"					
	12	3	"	"	"							12	4	"	"	"	"	"					
P.M.	1	3	E 1/2 N	SE 1/2 E	"				2 a.m. wore ship, wind veered to eastward.		P.M.	1	3	"	West	"					Wind changed to west. Moderate & cloudy.		
	2	3	"	"	"					2		3	"	"	"	"	"						
	3	2	"	SEW	SE	1				3		3	"	"	"	"	"						
	4	2	"	"	"					4		3	"	"	"	"	"						
	5	4	"	1/2 W	E 1/2 E	"				5		3	"	"	"	"	"						
	6	5	"	"	"				Shoved main top gall. sails & mainmast.			6	3	"	"	"	"	"					
	7	5	"	"	"				Increasing to a gale with heavy squalls & rain. Shoved			7	3	"	South	WSW	1/2						
	8	7	"	South	"	5			up, topsails, jib, main topmast			8	3	"	"	"	"	"					
	9	2	"	"	"	"			Staysail, foremast & only, low, topsails			9	3	"	SE	SW	"						
	10	2	"	WSW	South	"			fore up, topsail carried away			10	3	"	"	"	"	"					
	11	1	"	"	"	"			29.30 wind changed to south. jib carried away. 12 Days out.			11	3	"	"	"	"	"					
	12	1	"	"	"	"						12	3	"	"	"	"	"					
Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.											Course. Distance. Diff. of Lat. Departure. Lat. by D. R. Lat. by Ob. Variation. Diff. of Lon. Lon. in. Lon. by Ob.												
S 27° E 29' 0° 26' S 13.2' 40° 44' N 40° 42' N 18° E 0° 18' E 130° 12' W 129° 10'											S 16° W 96' 1° 32' S 26.5' 37° 52' N 37° 47' N 17° E 0° 34' W 130° 39' W 130° 17' W												

29.30

29.88

14 Days out.

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday 14 Nov 1899										
P.M.	1	5	5	SENE	SW	1/2				Small breeze cloudy weather.
	2	5	5	"	"	"				moderate sea.
	3	5	5	"	"	"				
	4	5	5	"	"	"				
	5	6	5	"	"	"				
	6	6	5	"	"	"				
	7	6	5	"	"	"				
	8	6	5	"	"	"				
	9	6	5	"	"	"				
	10	6	5	"	"	"				
	11	6	5	"	"	"				
	12	6	5	"	"	"				
A.M.	1	6	5	SENE	SW	"				heavy squalls with rain
	2	6	5	"	"	"				lowerd main royal, outer jib
	3	6	5	"	"	"				sparker & miz. gallauded
	4	6	5	"	"	"				A strong breeze with
	5	6	5	"	"	"				heavy squalls.
	6	6	5	"	"	"				lowerd fore & maintop gall. sails
	7	7	5	"	"	"				maintopmast stay sail & main sail
	8	7	5	"	"	"				
	9	7	5	"	"	"				
	10	7	5	"	"	"				
	11	7	5	"	"	"				
	12	6	5	"	"	"				
									29.99	

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday 14 Nov 1899										
P.M.	1	6	5	SENE	SW	0				Small breeze fine weather.
	2	6	5	"	"	"				moderate sea.
	3	6	5	"	"	"				
	4	6	5	"	"	"				
	5	6	5	"	"	"				
	6	6	5	"	"	"				
	7	6	5	"	"	"				
	8	6	5	"	"	"				
	9	6	5	"	"	"				
	10	6	5	"	"	"				
	11	6	5	"	"	"				
	12	6	5	"	"	"				
A.M.	1	6	5	"	"	"				
	2	6	5	"	"	"				
	3	6	5	"	"	"				
	4	6	5	"	"	"				
	5	6	5	"	"	"				
	6	6	5	"	"	"				
	7	6	5	"	"	"				
	8	6	5	"	"	"				
	9	6	5	"	"	"				
	10	6	5	"	"	"				
	11	6	5	"	"	"				
	12	5	5	"	"	"				
									30.27	

15 Days out.

17 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
918°E	132'	2°5'N	40.8'	35°42'N	35°44'N	16°E	0°51'E	129°48'W	129°18'W

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
910°W	140'	2°18'N	24.3'	31°34'N	31°32'N	14°E	0°29'W	130°12'W	129°44'W

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Thursday 15 Nov 1899										
P.M.	1	6	5	SENE	SW	0				Small breeze cloudy weather.
	2	6	5	"	"	"				moderate sea.
	3	5	5	"	"	"				
	4	5	5	"	"	"				
	5	5	5	"	"	"				
	6	5	5	"	"	"				
	7	5	5	"	"	"				
	8	5	5	"	"	"				
	9	5	5	"	"	"				
	10	5	5	"	"	"				
	11	4	5	"	"	"				
	12	4	5	"	"	"				
A.M.	1	4	5	"	"	"				
	2	4	5	"	"	"				
	3	4	5	"	"	"				
	4	4	5	"	"	"				
	5	4	5	"	"	"				
	6	4	5	"	"	"				
	7	4	5	"	"	"				
	8	4	5	"	"	"				
	9	5	5	"	"	"				
	10	5	5	"	"	"				
	11	5	5	"	"	"				
	12	5	5	"	"	"				
									30.15	

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Thursday 15 Nov 1899										
P.M.	1	5	5	SENE	SW	0				Small breeze fine weather.
	2	5	5	"	"	"				moderate sea.
	3	5	5	"	"	"				
	4	5	5	"	"	"				
	5	5	5	"	"	"				
	6	5	5	"	"	"				
	7	5	5	"	"	"				
	8	5	5	"	"	"				
	9	5	5	"	"	"				
	10	5	5	"	"	"				
	11	5	5	"	"	"				
	12	5	5	"	"	"				
A.M.	1	3	5	"	"	"				
	2	3	5	"	"	"				
	3	3	5	"	"	"				
	4	3	5	"	"	"				
	5	3	5	"	"	"				
	6	3	5	"	"	"				
	7	3	5	"	"	"				
	8	3	5	"	"	"				
	9	3	5	"	"	"				
	10	3	5	"	"	"				
	11	4	5	"	"	"				
	12	4	5	"	"	"				
									30.27	

16 Days out.

18 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
92°E	112'	1°52'N	39'	35°52'N	35°52'N	15°E	0°55'E	129°43'W	129°13'W

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
930°W	98'	1°25'N	49.0'	30°7'N	30°11'N	13°E	0°57'W	131°9'W	130°42'W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	4		SW	NO	0				moderate & fair
	2	4								smooth sea.
	3	4			North					
	4	4								
	5	5								
	6	5			SW					
	7	3			SW					Light & cloudy.
	8	3								
	9	3								
	10	3								
	11	3								
	12	3								
P.M.	1	3								Light
	2	3								
	3	3								
	4	3								
	5	2								
	6	2			North					
	7	2								Light
	8	2								
	9	2			NE					
	10	2								
	11	2								
	12	2							30.26	

19 Days out.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
B.M.	1	5		SW	WSW	1/2				Fresh & cloudy.
	2	5								smooth sea.
	3	5								
	4	5								
	5	5								
	6	5								
	7	5		SW	SW					Fresh & fair
	8	5								
	9	5								
	10	5								
	11	5								
	12	5								
P.M.	1	6								Light
	2	6								
	3	6								
	4	6								
	5	6								
	6	6								
	7	6								Fresh & cloudy.
	8	6								
	9	5								
	10	5		SW	SW	0				Squally. wind shifted to northward.
	11	3								
	12	2							30.12	

21 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
934:10	72'	1° 0' S	40.3'	29° 11' N	29° 5' N	12° E	0° 46' W	131° 55' W	131° 48' W

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
911:0	121'	1° 59' S	23.1'	26° 13' N	26° 11' N	11° E	0° 26' E	131° 22' W	131° 8' W

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	2		SW	NE	0				Light & cloudy.
	2	2								smooth sea.
	3	2			East					
	4	2								
	5	2		SW by S	SE					
	6	2								
	7	1		W by S	South	1/2				Very light air, cloudy with
	8	1								
	9	1			SW					
	10	1								10 p.m. put about.
	11	1		SE by E	SW					
	12	2								
P.M.	1	2								Light & cloudy.
	2	2								
	3	3								
	4	3								
	5	3								
	6	3								
	7	4								moderate & cloudy.
	8	4								
	9	5								
	10	5								
	11	5								
	12	5							30.10	

20 Days out.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	3		SW	North	0				Light & squally.
	2	3								westerly swell.
	3	3								
	4	3								
	5	4								
	6	4								
	7	4		SW by S	NE					moderate & squally
	8	4								
	9	4								
	10	4								
	11	3								
	12	3								
P.M.	1	3			NE					Light & fair.
	2	3								
	3	3								
	4	3								
	5	3			E by E					
	6	3								
	7	3								
	8	3								
	9	3								
	10	3								
	11	2								
	12	2							30.11	

22 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
97:0	52'	0° 52' S	6.3'	28° 13' N	28° 12' N	12° E	0° 7' E	131° 48' W	

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
94:0	68'	0° 51' S	44.6'	28° 20' N	28° 18' N	11° E	0° 50' W	132° 20' W	132° 7' W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

Saturday of Nov 23 rd 1899												Sunday of Nov 24 th 1899											
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		
A.M.	1	2	"	Why?	ENE	0				Light air & cloudy. heavy westerly swell.	A.M.	1	3	"	Why?	East	0				Light & cloudy. high westerly swell.		
	2	2	"		"	"						2	3	"	"	"	"						
	3	2	"		"	"						3	3	"	"	"	"						
	4	2	"		"	"						4	3	"	"	"	"						
	5	1	"		"	"						5	3	"	"	ENE	"						
	6	1	"		"	"						6	3	"	"	"	"						
	7	1	"		"	"						7	3	"	"	"	"						
	8	1	"		"	"						8	3	"	"	"	"						
	9	2	"		"	"						9	3	"	"	"	"						
	10	2	"		"	"						10	3	"	"	"	"						
	11	2	"		"	"						11	3	"	"	"	"						
	12	2	"		"	"						12	3	"	"	"	"						
P.M.	1	2	"		ENE	"					P.M.	1	3	"	"	"	"						
	2	2	"		ENE	"						2	3	"	"	"	"						
	3	2	"	Why?	Why?	1/2						3	2	"	"	SE	"						
	4	2	"		"	"						4	2	"	"	"	"						
	5	1	"		"	"						5	2	"	"	"	"						
	6	1	"		"	"						6	2	"	"	"	"						
	7	1	"	SE	SW	"						7	3	"	"	ENE	"						
	8	1	"		"	"						8	3	"	"	"	"						
	9	1	"	Why?	ENE	0						9	3	"	"	"	"						
	10	1	"		"	"						10	3	"	"	"	"						
	11	1	"		East	"						11	2	"	"	"	"						
	12	1	"		"	"			30.10			12	2	"	"	"	"			30.10			
23 Days out.												25 Days out.											

23 Days out.

25 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
444:10	35'	0:25'S	24.3'	24:50'N	24:51'N	10:5'E	0:27'W	132:39'W	132:38'W	444:10	66'	0:47'S	45.8'	23:31'N	23:40'N	10:5'E	0:50'W	134:12'W	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Fri day & Nov 24 th 1899											Sun day & Nov 26 th 1899
A.M.	1	1	"	Why?	E.N.E	0				Light & cloudy	P.M.	1	3	"	Why?	E.N.E	0				Light & cloudy.
	2	1	"	"	"	"				moderate sea.		2	3	"	"	"	"				moderate sea.
	3	1	"	"	"	"						3	3	"	"	"	"				
	4	1	"	"	"	"						4	3	"	"	"	"				
	5	2	"	"	"	"						5	3	"	"	"	"				
	6	2	"	"	"	"						6	3	"	"	"	"				
	7	3	"	"	"	"				D ^o		7	3	"	"	E.N.E	"				D ^o
	8	3	"	"	"	"						8	3	"	"	"	"				
	9	2	"	"	"	"						9	3	"	"	"	"				
	10	2	"	"	"	"						10	3	"	"	"	"				
	11	2	"	"	"	"						11	3	"	"	"	"				
	12	2	"	"	"	"						12	3	"	"	"	"				
P.M.	1	3	"	"	"	"				Light & squally.	P.M.	1	4	"	"	E.N.E	"				moderate & cloudy.
	2	3	"	"	"	"						2	4	"	"	"	"				
	3	3	"	"	"	"						3	4	"	"	"	"				
	4	3	"	"	"	"						4	4	"	"	"	"				
	5	2	"	"	E.N.E	"						5	5	"	"	"	"				moderate & squally.
	6	2	"	"	"	"						6	5	"	"	"	"				
	7	2	"	"	"	"				D ^o		7	5	"	"	"	"				
	8	2	"	"	"	"						8	5	"	"	"	"				
	9	3	"	"	"	"						9	5	"	"	"	"				moderate & cloudy.
	10	3	"	"	"	"						10	5	"	"	"	"				
	11	4	"	"	East	"						11	5	"	"	"	"				
	12	4	"	"	"	"			30.13	24 Days out		12	5	"	"	"	"			30.08	26 Days out

24 Days out.

26 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
444:10	56'	0:40'S	38.9'	24:11'N	24:18'N	10:5'E	0:43'W	133:22'W	132:40'W	444:10	92'	1:06'S	63.9'	22:34'N	22:43'N	10:5'E	1:10'W	135:22'W	135:49'W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
	Monday 27 th Nov 1899																				Wednesday 29 th Nov 1899
p.m.	1	3		Swby S	ESE	0				Light & cloudy.	p.m.	1	5		Swby S	NNE	0				Fresh breeze and squally.
	2	3								moderate sea.		2	5								moderate sea.
	3	3										3	5								
	4	3										4	5								
	5	3										5	5								
	6	3										6	5								
	7	3			ESE							7	6								Fresh & fair
	8	3										8	6								
	9	4										9	6								
	10	4										10	6								
	11	4			ESE							11	6								
	12	4										12	6								
q.m.	1	5								moderate & cloudy	q.m.	1	6								Fresh and squally.
	2	5										2	6								
	3	5										3	6								
	4	5										4	6								
	5	5										5	7								
	6	5										6	7								
	7	6								Light & squally.		7	7								
	8	6										8	7								
	9	6										9	7								
	10	6										10	7								
	11	4										11	7								
	12	4							30.12			12	7							30.08	

27 Days out.

27 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
443.10	88'	1°4' S	60.0'	21°39' N	21°41' N	9° E	1°5' W	136°27' W	136°51' W	442.10	148'	1°50' S	99.0'	18°47' N	18°54' N	8° E	1°45' W	139°22' W	139°48' W

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
	Tuesday 28 th Nov 1899																				Thursday 30 th Nov 1899
p.m.	1	4		Swby S	ESE	0				moderate and fair	p.m.	1	6		Swby S	NNE	0				Fresh & squally.
	2	4								moderate sea.		2	6								moderate sea.
	3	4										3	5								
	4	4										4	5								
	5	4										5	6								
	6	4										6	6								
	7	4										7	6								
	8	4										8	6								
	9	4										9	6								
	10	4										10	6								
	11	4										11	6								
	12	4										12	6								
q.m.	1	4										1	6								
	2	4										2	6								
	3	4										3	6								
	4	4										4	6								
	5	4										5	6								
	6	4										6	6								
	7	4										7	6								
	8	4										8	6								
	9	4										9	6								
	10	4										10	6								
	11	4										11	6								
	12	4							30.18			12	6							30.06	

28 Days out.

30 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
443.20	96'	1°10' S	65.5'	20°31' N	20°37' N	9° E	1°10' W	137°37' W	137°57' W	442.10	140'	1°44' S	93.0'	17°10' N	17°11' N	8° E	1°39' W	141°1' W	141°22' W

From Port Ludlow towards Fremantle. From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Fri day Dec 1 st 1899											Sat day Dec 3 rd 1899
P.M.	1	5	"	Swby S	NE	0				Fresh breeze and fair moderate sea.	P.M.	1	4	"	SW by N	ENE	0				Moderate & fair smooth sea.
	2	5	"	"	"	"						2	4	"	"	"	"				
	3	5	"	"	"	"						3	4	"	"	"	"				
	4	5	"	"	"	"						4	4	"	"	"	"				
	5	6	"	"	"	"						5	4	"	"	"	"				
	6	6	"	"	"	"						6	4	"	"	"	"				
	7	6	"	"	ENE	"				Fresh & squally.		7	4	"	"	"	"				Moderate & squally
	8	6	"	"	"	"						8	4	"	"	"	"				
	9	5	"	"	"	"						9	4	"	"	"	"				
	10	5	"	"	"	"						10	4	"	"	"	"				
	11	5	"	"	"	"						11	4	"	"	"	"				
	12	5	"	"	"	"						12	4	"	"	"	"				
A.M.	1	6	"	"	"	"				Fresh & fair.	A.M.	1	4	"	"	"	"				Do
	2	6	"	"	"	"						2	4	"	"	"	"				
	3	5	"	"	NE	"						3	4	"	"	"	"				
	4	5	"	"	"	"						4	4	"	"	"	"				
	5	5	"	"	"	"						5	5	"	"	"	"				
	6	5	"	"	"	"						6	5	"	"	"	"				
	7	5	"	"	"	"				Fresh and cloudy.		7	6	"	"	"	"				Fresh and fair.
	8	5	"	"	"	"						8	6	"	"	"	"				
	9	5	"	"	"	"						9	6	"	"	"	"				
	10	5	"	"	"	"						10	6	"	"	"	"				
	11	5	"	"	"	"						11	6	"	"	"	"				
	12	5	"	"	"	"			29.98			12	6	"	"	"	"			29.94	

31 Days out.

33 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
94.10	126	1.35.9	82.7	15.36.1	15.45.1	7.6	1.26.0	142.27.0	143.7.0	93.10	110	1.30.9	63.1	13.0.0	13.57.1	7.6	1.5.0	144.41.0	145.57.0

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Saturday Dec 2nd 1899</i>											<i>Sunday Dec 3rd 1899</i>
<i>P.M.</i>	1	5	4	<i>Swby S</i>	<i>NE</i>	0				<i>moderate partly cloudy</i>	<i>P.M.</i>	1	5	4	<i>SW</i>	<i>NE</i>	0				<i>Fresh & fair</i>
	2	5	4							<i>smooth sea.</i>		2	5	4							<i>smooth sea.</i>
	3	4	3									3	5	4							
	4	4	4									4	5	4							
	5	4	4									5	5	4							
	6	4	4									6	5	4							
	7	4	4									7	5	4							
	8	4	4									8	5	4							
	9	4	4									9	5	4							
	10	4	4									10	5	4							
	11	4	4									11	5	4							
	12	4	4									12	5	4							
<i>A.M.</i>	1	5	4									1	5	4							
	2	5	4									2	5	4							
	3	5	4									3	5	4							
	4	5	4									4	5	4							
	5	5	4									5	5	4							
	6	5	4									6	5	4							
	7	5	4									7	6	4							
	8	5	4									8	6	4							
	9	5	4									9	6	4							
	10	5	4									10	6	4							
	11	5	4									11	6	4							
	12	5	4									12	6	4							
									30.03											29.99	
								</													

Moderate & fair

Shifted on in up to sail.

32 Days out.

34 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
94.10	102	1.17.9	66.9	14.28.1	14.30.1	7.6	1.9.0	143.36.0	143.47.0	95.10	126	1.19.9	97.9	11.38.1	11.49.1	6.6	1.40.0	146.21.0	146.54.0

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	½ K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	½ K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	
Dec 5 th 1899											Dec 7 th 1899											
A.M.	1	S	4	SW	NE	0				Fresh & fair	P.M.	1	7	4	SW	NE	0				Fresh & cloudy.	
	2	S	4	"	"	4				moderate sea.		2	7	4	"	"	"				moderate sea.	
	3	S	4	"	"	4						3	6	4	"	"	"					
	4	S	4	"	"	4						4	6	4	"	"	"					
	5	S	4	"	"	4						5	6	4	"	"	"					
	6	S	4	"	"	4						6	6	4	"	"	"					
	7	S	4	"	"	4				Do		7	S	4	"	"	"				Fresh & squally with	
	8	S	4	"	"	4						8	S	4	"	"	"				heavy showers of rain	
	9	S	4	"	"	4						9	S	4	"	"	"					
	10	S	4	"	"	4						10	S	4	"	"	"					
	11	S	4	"	"	4						11	S	4	"	"	"					
	12	S	4	"	"	4						12	S	4	"	"	"					
P.M.	1	S	4	"	"	4				Do	Z.M.	1	S	4	"	"	"					Do
	2	S	4	"	"	4						2	S	4	"	"	"					
	3	S	4	"	"	4						3	S	4	"	"	"					
	4	S	4	"	"	4						4	S	4	"	"	"					
	5	S	4	"	"	4						5	6	4	"	"	"					
	6	S	4	"	"	4						6	6	4	"	"	"					
	7	S	4	"	"	4				Do		7	7	4	SW	"	"					Do
	8	S	4	"	"	4						8	7	4	"	"	"					
	9	S	4	"	"	4						9	7	4	"	"	"					
	10	S	4	"	"	4				Passing squalls.		10	7	4	"	"	"					
	11	S	4	"	"	4						11	8	4	"	"	"					
	12	S	4	"	"	4			30.00			12	8	4	"	"	"			29.89		37 Days out.
											35 Days out											

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW	124'	1° 18' S	96.4'	10° 31' N	10° 37' N	6° E	1° 38' W	147° 59' W	148° 33' W	SW	142'	1° 42' S	98.6'	7° 17' N	7° 16' N	6° E	1° 40' W	151° 34' W	151° 52' W
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday Dec 6 th 1899										Sai day Dec 8 th 1899									
A.M.	1	5	SW	NE	0				Fresh breeze & squally moderate sea.	P.M.	1	8	SW	NE	0				Strong breeze with heavy squalls heavy sea.
	2	"	"	"	"						2	8	"	"	"				
	3	"	"	"	"						3	8	"	"	"				
	4	"	"	"	"						4	8	"	"	"				
	5	"	"	"	"						5	8	"	"	"				Showered main royal.
	6	"	"	"	"						6	8	"	"	"				Do
	7	"	"	"	"				Fresh, partly cloudy		7	8	"	"	"				
	8	"	"	"	"						8	8	"	"	"				
	9	"	"	"	"						9	8	"	"	"				
	10	"	"	"	"						10	8	"	"	"				very heavy showers of rain.
	11	"	"	"	"						11	8	"	"	"				
	12	"	"	"	"						12	8	"	"	"				
P.M.	1	"	"	"	"				Do.	P.M.	1	8	"	"	"				Do.
	2	"	"	"	"						2	8	"	"	"				
	3	"	"	"	"						3	8	"	"	"				
	4	"	"	"	"						4	8	"	"	"				
	5	"	"	"	"						5	7	"	"	"				
	6	"	"	"	"						6	7	"	"	"				
	7	"	"	"	"				Do.		7	7	"	"	"				
	8	"	"	"	"						8	7	"	"	"				
	9	"	"	"	"						9	8	"	"	"				
	10	"	"	"	"						10	8	"	"	"				
	11	"	"	"	"						11	7	"	"	"				
	12	"	"	"	"						12	7	"	"	"				
29.96										29.85									
36 Days out										38 Days out									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW	146'	1° 32' S	113.5'	9° 5' N	8° 59' N	6° E	1° 55' W	149° 54' W	150° 25' W	SW	184'	2° 33' S	102.9'	4° 43' N	—	6° E	1° 44' W	153° 18' W	—

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW	146'	1° 32' S	113.5'	9° 5' N	8° 59' N	6° E	1° 55' W	149° 54' W	150° 25' W		SW	184'	2° 33' S	102.9'	4° 45' N	—	6° E	1° 44' W	153° 18' W	—

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Monday of Dec 9. 1899											Tuesday of Dec 11. 1899
P.M.	1	6	"	SW	Light	1/2				Fresh breeze & cloudy.	P.M.	1	2	"	SW	East	0				Light & showery.
	2	6	"	"	"	"				high sea.		2	2	"	"	"	"				Moderate sea.
	3	5	"	"	"	"						3	2	"	"	"	"				
	4	5	"	"	"	"						4	2	"	"	"	"				
	5	4	"	"	"	"						5	2	"	"	ENE	"				
	6	4	"	"	"	"						6	2	"	"	"	"				
	7	4	"	SW	Light	"				Moderate & cloudy.		7	2	"	"	"	"				Dr
	8	4	"	"	"	"						8	2	"	"	"	"				
	9	4	"	"	"	"						9	3	"	"	"	"				
	10	4	"	"	"	"						10	3	"	"	"	"				
	11	3	"	"	"	"						11	3	"	"	"	"				
	12	3	"	"	"	"						12	3	"	"	ESE	"				
A.M.	1	3	"	"	"	"				Light & fair	P.M.	1	2	"	"	East	"				Light with heavy squalls
	2	3	"	"	"	"				set ft. jib & only top gal. sail.		2	4	"	"	"	"				& showers of rain.
	3	3	"	"	"	"						3	3	"	SW	SE	1/2				
	4	3	"	"	"	"						4	3	"	"	"	"				
	5	2	"	"	"	"						5	1	"	"	"	"				
	6	2	"	"	"	"						6	1	"	"	"	"				
	7	2	"	"	"	"				Very light & fair.		7	1	"	"	"	"				Light & showery.
	8	2	"	"	"	"				repacked for top gal. sail		8	1	"	"	"	"				
	9	1	"	SW	South	"				all sails set.		9	1	"	SW	ESE	0				
	10	1	"	"	"	"						10	1	"	"	"	"				
	11	1	"	"	"	"				Shifted main lower topsail		11	2	"	"	East	"				
	12	1	"	"	"	"				29.87		12	2	"	"	"	"				29.86

29.87

39 Days out

29.86

41 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW 6.00	74'	0:51' S	13.2'	3:52' N	4:13' N	6:6	0:53' W	154:11' W	153:54' W		SW 20.10	50'	0:47' S	17.1'	3:16' N	3:28' N	6:6	0:17' W	154:31' W	153:48' W
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
									Tuesday of Dec 10. 1899											Tuesday of Dec 12. 1899
P.M.	1	"	"	Calm	Calm	"			Calm and fair	P.M.	1	2	"	SW	SE	1/2				Light and squally.
	2	"	"	"	"	"			moderate sea.		2	2	"	"	"	"				moderate sea.
	3	"	"	"	"	"					3	3	"	"	"	"				
	4	"	"	"	"	"					4	3	"	"	"	"				
	5	"	"	"	"	"					5	3	"	"	"	"				
	6	"	"	"	"	"					6	3	"	"	"	"				
	7	"	"	"	"	"			Dr		7	3	"	"	"	"				Light & fair
	8	"	"	"	"	"			passing light		8	3	"	"	"	"				
	9	"	"	"	"	"			showers of rain.		9	3	"	"	"	"				
	10	"	"	"	"	"					10	3	"	"	"	"				
	11	"	"	"	"	"					11	3	"	"	"	"				
	12	"	"	"	"	"					12	3	"	"	"	"				
A.M.	1	"	"	"	"	"			Calm & fair	P.M.	1	3	"	"	"	"				Light & squally.
	2	"	"	"	"	"					2	3	"	"	"	"				
	3	"	"	"	"	"					3	4	"	"	"	"				
	4	"	"	"	"	"					4	4	"	"	"	"				
	5	"	"	"	"	"					5	4	"	"	"	"				
	6	"	"	"	"	"					6	4	"	"	"	"				
	7	1	"	SW	East	"			Light air, fair weather		7	5	"	"	"	"				Fresh breeze partly cloudy.
	8	1	"	"	"	"					8	5	"	"	"	"				
	9	2	"	"	"	"					9	5	"	"	"	"				
	10	2	"	"	"	"					10	5	"	"	"	"				
	11	2	"	"	"	"					11	5	"	"	"	"				
	12	2	"	"	"	"				29.88		12	5	"	"	"				29.86

29.88

40 Days out

29.86

42 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SW 17.10	10'	0:10' S	2.9'	4:32' N	4:50' N	6:6	0:3' W	154:14' W	153:47' W		SW 29.10	86'	1:15' S	41.7'	2:15' N	2:25' N	6:6	0:42' W	154:13' W	153:23' W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Wednesday Dec 15 1899											Thursday Dec 15 1899
A.M.	1	5	"	SW	SE	1/2				Fresh breeze partly cloudy	A.M.	1	5	"	SW	ENE	0				Fresh and fair
	2	5	"	"	"	"				moderate sea.		2	5	"	"	"	"				Smooth sea.
	3	5	"	"	"	"						3	5	"	"	"	"				
	4	5	"	"	"	"						4	5	"	"	"	"				
	5	5	"	"	"	"						5	5	"	"	"	"				
	6	5	"	"	"	"						6	5	"	"	"	"				
	7	5	"	"	"	"				Fresh & fair		7	4	"	"	"	"				moderate & fair
	8	5	"	"	"	"						8	4	"	"	"	"				
	9	5	"	"	"	"						9	4	"	"	"	"				
	10	5	"	"	"	"						10	4	"	"	"	"				
	11	5	"	"	"	"						11	5	"	"	"	"				
	12	5	"	"	"	"						12	5	"	"	"	"				
P.M.	1	6	"	"	"	"				No passing squalls.	P.M.	1	6	"	"	"	"				Fresh and fair
	2	6	"	"	"	"						2	6	"	"	"	"				
	3	6	"	"	"	"						3	6	"	"	"	"				
	4	6	"	"	"	"						4	6	"	"	"	"				
	5	6	"	"	"	"						5	6	"	"	"	"				
	6	6	"	"	"	"						6	6	"	"	"	"				
	7	7	"	"	"	"				No		7	6	"	"	"	"				No
	8	7	"	"	"	"						8	6	"	"	"	"				
	9	6	"	"	"	"						9	6	"	"	"	"				
	10	6	"	"	"	"						10	6	"	"	"	"				
	11	6	"	"	"	"						11	6	"	"	"	"				
	12	6	"	"	"	"			29.86			12	6	"	"	"	"			29.80	

43 Days out.

45 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 34° W	134'	1° 51' S	74.9'	0° 32' N	0° 46' N	6° E	1° 15' W	155° 28' 10"	155° 44' W		S 40° W	128'	1° 38' S	82.3'	2° 14' S	2° 13' S	6° E	1° 22' W	159° 12' 10"	158° 53' W
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
									Thursday Dec 14 1899											Friday Dec 16 1899
A.M.	1	6	"	SW	ENE	0			Fresh breeze fair weather	A.M.	1	6	"	SW	ENE	0				Fresh breeze & fair
	2	6	"	"	"	"			passing light squalls.		2	6	"	"	"	"				moderate sea.
	3	6	"	"	"	"			moderate sea.		3	6	"	"	East	"				
	4	6	"	"	"	"					4	6	"	"	"	"				
	5	6	"	"	"	"					5	6	"	"	ENE	"				
	6	6	"	"	"	"					6	6	"	"	"	"				
	7	6	"	"	East	"			Fresh & fair		7	7	"	"	"	"				Fresh breeze partly cloudy
	8	6	"	"	"	"					8	7	"	"	East	"				passing squalls
	9	6	"	"	"	"					9	7	"	"	"	"				
	10	6	"	"	"	"					10	7	"	"	"	"				
	11	6	"	"	ENE	"					11	7	"	"	"	"				
	12	6	"	"	"	"					12	7	"	"	"	"				
P.M.	1	6	"	"	"	"			No	P.M.	1	6	"	"	"	"				Fresh & squally.
	2	6	"	"	"	"					2	6	"	"	"	"				
	3	6	"	"	"	"					3	7	"	"	"	"				
	4	6	"	"	"	"					4	7	"	"	"	"				
	5	6	"	"	"	"					5	8	"	"	"	"				
	6	6	"	"	"	"					6	7	"	"	"	"				
	7	6	"	"	"	"				No	7	7	"	"	"	"				Fresh & fair
	8	6	"	"	"	"					8	7	"	"	"	"				
	9	6	"	"	"	"					9	7	"	"	"	"				
	10	6	"	"	"	"					10	7	"	"	"	"				
	11	6	"	"	"	"					11	6	"	"	"	"				
	12	6	"	"	"	"		29.83			12	6	"	"	"	"			29.85	

44 Days out.

46 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 40° W	128'	1° 38' S	82.3'	0° 52' N	0° 36' S	6° E	1° 22' W	157° 50' 10"	157° 13' W		S 46° W	159'	1° 50' S	114.4'	4° 3' S	3° 59' S	7° E	1° 55' W	161° 7' 10"	160° 59' W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Sunday 17 Dec 17 1899</i>											<i>Sun day 17 Dec 17 1899</i>
P.M.	1	6		SW by E	East	0				Fresh and fair	P.M.	1	3		SW by E	East	0				Light partly cloudy
	2	6		"	"	"				moderate sea.		2	3		"	"	"				sun sea.
	3	6		"	"	"						3	3		"	"	"				
	4	6		"	"	"						4	3		"	"	"				
	5	6		"	"	"						5	3		"	"	"				
	6	6		"	"	"						6	3		"	"	"				
	7	7		"	"	"						7	4		"	"	"				
	8	7		"	"	"						8	4		"	"	"				
	9	7		"	"	"						9	3		"	"	"				
	10	7		"	"	"						10	3		"	"	"				
	11	7		"	"	"						11	3		"	"	"				
	12	7		"	"	"						12	3		"	"	"				
Q.M.	1	7		"	"	"				Fresh partly cloudy	Q.M.	1	3		"	"	"				
	2	7		"	"	"						2	3		"	"	"				
	3	8		"	"	"						3	4		"	"	"				
	4	8		"	"	"						4	4		"	"	"				
	5	8		"	"	"						5	4		"	"	"				
	6	8		"	"	"						6	4		"	"	"				
	7	7		"	"	"						7	4		"	"	"				moderate partly cloudy.
	8	7		"	"	"						8	4		"	"	"				
	9	7		"	"	"						9	4		"	"	"				
	10	7		"	"	"						10	4		"	"	"				
	11	7		"	"	"						11	4		"	"	"				
	12	7		"	"	"						12	4		"	"	"				

29.80

47 Days out

29.89

49 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 47° W	166	1° 53' S	121.4'	5° 52' S	5° 44' S	8° E	2° 2' W	163° 9' W	163° 8' W	S 47° W	84	0° 57' S	61.4'	8° 22' S	8° 21' S	8° E	1° 2' W	165° 59' W	165° 54' W

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Monday 18 Dec 18 1899</i>											<i>Tuesday 19 Dec 19 1899</i>
P.M.	1	8		SW by E	East	0				Fresh breeze partly cloudy	P.M.	1	4		SW by E	East	0				Light breeze partly cloudy.
	2	8		"	"	"				moderate sea.		2	4		"	"	"				sun sea.
	3	7		"	"	"						3	4		"	"	"				
	4	7		"	"	"						4	4		"	"	"				
	5	7		"	"	"						5	3		"	"	"				
	6	7		"	"	"						6	3		"	"	"				
	7	7		"	"	"						7	4		"	"	"				
	8	7		"	"	"						8	4		"	"	"				
	9	7		"	"	"						9	4		"	"	"				
	10	7		"	"	"						10	4		"	"	"				
	11	7		"	"	"						11	4		SW by W	SE	"				
	12	7		"	"	"						12	4		"	"	"				
Q.M.	1	6		"	"	"						1	3		SW by E	East	"				
	2	6		"	"	"						2	3		"	"	"				
	3	5		"	"	"						3	3		"	"	"				
	4	5		"	"	"						4	3		"	"	"				
	5	5		"	"	"						5	3		"	"	"				
	6	5		"	"	"						6	3		"	"	"				
	7	5		"	"	"						7	3		"	"	"				
	8	5		"	"	"						8	3		"	"	"				
	9	5		"	"	"						9	3		"	"	"				
	10	5		"	"	"						10	3		"	"	"				
	11	4		"	"	"						11	4		"	"	"				
	12	4		"	"	"						12	4		"	"	"				

29.90

48 Days out

29.89

50 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 47° W	146	1° 40' S	106.8'	7° 24' S	7° 25' S	8° E	1° 48' W	164° 57' W	164° 56' W	S 48° W	84	0° 56' S	62.4'	9° 17' S	9° 17' S	8° E	1° 3' W	167° 22' W	166° 56' W

From Port Ludlow towards Fremantle.

Sun day Dec 21 st 1899										Sun day Dec 22 nd 1899										
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	
A.M.	1	3	SW	East	0				Light partly cloudy	A.M.	1	2	SW	WSE	0					Light air & fair
	2	3	"	"	"				Smooth sea		2	2	"	"	"					Smooth sea.
	3	3	"	"	"						3	1	"	"	"					
	4	3	"	ESE	"						4	1	"	"	"					
	5	3	"	"	"						5	1	"	"	"					
	6	3	"	"	"						6	1	"	"	"					
	7	3	"	"	"				Light & showery.		7	1	"	"	"					
	8	3	"	"	"						8	1	"	"	"					
	9	4	"	"	"						9	1	"	"	"					
	10	4	"	ESE	"						10	1	"	"	"					
	11	4	"	"	"						11	1	"	"	"					
	12	4	"	WSE	"						12	1	"	"	"					
P.M.	1	2	"	"	"					P.M.	1	1	"	"	North					
	2	2	"	"	"						2	1	"	"	"					
	3	2	"	"	"						3	1	"	"	"					
	4	2	"	"	"						4	2	"	"	"					
	5	2	"	"	"						5	2	"	"	"					
	6	2	"	WSE	"				Light air partly cloudy		6	1	"	"	"					
	7	2	"	"	"						7	1	"	"	WNW					Light & squally.
	8	2	"	"	"						8	1	"	"	"					
	9	2	"	"	"						9	1	"	"	"					
	10	2	"	NE	"						10	1	"	"	"					
	11	2	"	"	"						11	2	"	"	WNW					
	12	2	"	"	"						12	2	"	"	"					
29.88.										29.87										
51 Days out										53 Days out										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
947:W	64'	0:44'	46.8'	9:56'	9:58'	8°E	0:48'	167:50'W	167:51'W	942:W	30'	0:22'	20.1'	10:41'	10:43'	8°E	0:20'	168:41'W	168:26'W	
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	
A.M.	1	2	WSE	South	0				Light air & squally.	A.M.	1	2	SW	WSE	1/2					Light & cloudy.
	2	2	"	"	"				Smooth sea		2	2	"	"	"					Smooth sea.
	3	2	"	"	"						3	2	"	"	"					
	4	2	"	"	"						4	2	"	"	"					
	5	2	"	"	"						5	2	"	"	"					
	6	2	SW	ESE	"						6	2	"	"	"					
	7	2	"	"	"				Light & fair		7	2	"	SW	WSE					Light & squally.
	8	2	"	"	"						8	2	"	"	"					
	9	1	"	"	"						9	2	"	"	"					
	10	1	"	"	"						10	2	"	"	"					
	11	1	"	"	"						11	2	"	"	"					
	12	1	"	"	"						12	2	"	"	"					
P.M.	1	1	"	"	"				Very light & fair	P.M.	1	2	"	South	WSE					
	2	1	"	"	"						2	2	"	"	"					
	3	1	"	"	"						3	2	"	"	"					
	4	1	"	"	"						4	2	"	"	"					Wind changed to North
	5	2	"	"	"						5	3	"	SW	North	0				
	6	2	"	"	"						6	3	"	"	"					
	7	2	"	"	"				Light & squally.		7	4	"	"	"					Moderate cloudy
	8	2	"	"	"				Light from lower troposphere.		8	4	"	"	SW					& squally.
	9	2	"	"	"						9	4	"	"	"					
	10	2	"	"	"						10	4	"	"	"					
	11	2	"	"	"						11	4	"	"	"					
	12	2	"	"	"						12	4	"	"	"					
29.88										29.85										
52 Days out										54 Days out										
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
947:W	38'	0:21'	31.9'	10:16'	10:17'	8°E	0:32'	168:21'W	168:21'W	937:W	59'	0:51'	30.4'	11:34'	11:36'	8°E	0:31'	169:12'W	168:57'W	

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Monday & Dec 25 th 1899										Tuesday & Dec 27 th 1899									
P.M.	1	5	SW	WNW	1/2				Fresh breeze & cloudy.	A.M.	1	5	SW	West	1/2				Moderate, cloudy with rain
	2	5	"	"	"				Smooth sea.		2	5	"	"	"				Smooth sea. Land in sight
	3	6	"	"	"						3	4	"	South	"	0			
	4	6	"	"	"						4	4	"	"	"	"			Could not weather Savai, kept
	5	5	"	"	"						5	3	"	ESE	SW	"			off to go eastward of Opoulou.
	6	5	"	"	"						6	3	"	"	North	"			6 p.m. Opoulou West point 1/2 W 3/4 W
	7	4	"	"	"				moderate & cloudy		7	2	"	E by S	SW	"			& East Point SE 1/2 E.
	8	4	"	"	"						8	2	"	"	SW	"			Wind changed to North & East
	9	3	"	"	"						9	4	"	NNW	SW	"			put the vessel on the other tack
	10	3	"	"	"						10	4	"	"	"	"			moderate with very heavy
	11	3	"	"	"						11	2	"	West	"	"			showers of rain.
	12	3	"	"	"						12	3	"	"	"	"			
A.M.	1	3	"	"	"				Light & cloudy.	P.M.	1	4	"	W by N	SE	"			Fresh breeze with rain
	2	3	"	"	"						2	4	"	"	"	"			heavy showers.
	3	2	"	"	"						3	6	"	W by W	"	"			
	4	2	"	"	"						4	6	"	"	"	"			
	5	2	"	"	"						5	5	"	"	"	"			
	6	2	"	"	"				squally.		6	4	"	"	"	"			
	7	2	"	"	"						7	4	"	West	"	"			Fresh & showery.
	8	2	"	"	"				Wind changed to South.		8	5	"	W by S	"	"			
	9	3	"	W by S	South				moderate & squally		9	5	"	"	"	"			
	10	3	"	"	"						10	5	"	"	"	"			
	11	4	"	W by W	SE				Wind veering to eastward		11	4	"	"	"	"			
	12	4	"	"	SE				29.80 55 Days out		12	4	"	"	"	"			12 a.m. Savai West Point 19.72 1/2 E Dist 24 miles 57 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
953:10	88'	0:53'S	70.3'	12:23'S	—	8:6	12:12'W	170:24'W	—										
Tuesday & Dec 26 th 1899										Wednesday & Dec 28 th 1899									
P.M.	1	3	SW	ESE	0				moderate & showery	P.M.	1	4	"	WSW	ESE	0			Fresh breeze with rain
	2	3	"	"	"				smooth sea		2	4	"	"	"	"			smooth sea.
	3	3	"	"	"						3	4	"	"	"	"			
	4	3	"	"	"				Wind veering to northward		4	4	"	"	"	"			
	5	4	"	"	"						5	4	"	"	"	"			
	6	4	"	"	"						6	4	"	"	"	"			
	7	5	"	"	"				Fresh & squally with		7	4	"	"	"	"			Increasing with heavy
	8	5	"	"	"				heavy showers of rain		8	5	"	"	"	"			squalls, thick & rain
	9	5	"	"	"						9	6	"	"	"	"			made fast every-
	10	5	"	"	"						10	5	"	"	"	"			thing till main lower
	11	5	"	"	"						11	5	"	"	"	"			topshil & foretopmast stayon
	12	6	"	"	"						12	4	"	"	"	"			
A.M.	1	6	"	"	"				Fresh breeze, cloudy &	P.M.	1	4	"	SW	SE	"			Strong, squally, thick
	2	6	"	"	"				squally.		2	4	"	"	"	"			& very heavy rain.
	3	6	"	"	"						3	5	"	"	"	"			
	4	6	"	"	"						4	5	"	"	"	"			
	5	6	"	"	"						5	5	"	"	"	"			
	6	6	"	"	"						6	5	"	"	"	"			
	7	5	"	"	"				Fresh & showery.		7	6	"	"	"	"			More moderate
	8	5	"	"	"						8	6	"	"	"	"			tion with heavy rain
	9	5	"	"	"						9	5	"	"	"	"			
	10	4	"	SW	West	1/2					10	5	"	"	"	"			
	11	4	"	"	"						11	4	"	"	"	"			
	12	3	"	"	"				29.79 56 Days out.		12	4	"	"	"	"			29.54 58 Days out.
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
961:10	110'	0:53'S	96.2'	13:16'S	—	8:6	1:39'W	172:3'W	—	96:10	107'	0:57'S	90.7'	12:38'S	—	8:6	1:33'W	174:16'W	—

From Port Ludlow towards Fremantle. From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Sat day & Dec 29th 1899</i>										<i>Sunday & Dec 30th 1899</i>
A.M.	1	5	4	NW	SE	0				Strong & squally, tick with heavy rain, heavy sea.	1	2	4	West	NW	8				Moderating, squally, heavy sea.
	2	5	4	"	"	"				2 p.m. hoisted fore & main top sails	2	1	"	"	"	"				shipped great quantities of water.
	3	1	"	South	E by S	7				blow for topmast stayed	3	2	"	"	"	"				
	4	1	"	"	"	"					4	1	"	"	"	"				
	5	1	"	"	"	"					5	2	"	"	"	"				
	6	1	"	"	"	"					6	1	"	"	"	"				
	7	1	"	SW	SE	"					7	2	"	"	"	"				Moderate gale squally weather.
	8	1	"	"	"	"				8 p.m. kept before the wind	8	1	"	"	"	"				
	9	3	"	NW	South	0				Wind changing rapidly to the south & westward	9	2	"	"	"	"				
	10	3	"	"	"	"					10	1	"	"	"	"				
	11	3	"	North	SW	"					11	2	"	"	"	"				
	12	3	"	"	"	"					12	1	"	"	"	"				
P.M.	1	3	"	NNE	SW	"				Strong & squally tick with rain.	1	1	"	"	"	"				
	2	3	"	"	"	"					2	1	"	"	"	"				
	3	4	"	East	West	"				Wind changing to the west & northward.	3	1	"	"	"	"				
	4	4	"	"	"	"				6 a.m. hoisted fore & main top sails.	4	1	"	"	"	"				
	5	6	"	"	"	"				Very heavy squalls.	5	1	"	"	"	"				
	6	6	"	"	"	"				goosewinged main lower top sail.	6	1	"	"	"	"				
	7	1	"	SW	SW	8					7	2	"	South	"	0				More moderate breeze, set fore lower top sail & foremast, repaired & set main lower top sail.
	8	2	"	"	"	"					8	3	"	"	"	"				Set fore topmast stay sail, main lower top sail, upper top sails.
	9	1	"	W by S	NW	"					9	4	"	"	"	"				29.69
	10	2	"	"	"	"					10	4	"	"	"	"				61 Days out.
	11	1	"	"	"	"					11	5	"	"	"	"				
	12	2	"	"	"	"					12	5	"	"	"	"				

29.41 59 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 41° E	18'	0° 14' N	11.8'	12° 24' S	—	8° E	0° 12' E	174° 4' W	—	98° W	47'	0° 46' S	6.6'	13° 50' S	13° 49' S	8° E	0° 7' W	174° 17' W	174° 10' W

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Sat day & Dec 30th 1899</i>										<i>Sun day & Jan 1st 1900</i>
A.M.	1	1	"	West	NW	8				Blowing a gale with heavy squalls, tick & rain, heavy sea.	1	6	"	SW	NW	0				Strong breeze squally weather, high sea.
	2	2	"	"	"	"					2	6	"	"	"	"				
	3	1	"	"	"	"					3	7	"	"	"	"				
	4	1	"	"	"	"					4	7	"	"	"	"				
	5	1	"	"	"	"					5	7	"	"	"	"				
	6	2	"	"	"	"					6	7	"	"	"	"				
	7	1	"	"	"	"					7	7	"	"	"	"				
	8	2	"	"	"	"					8	7	"	"	"	"				
	9	1	"	"	"	"					9	7	"	"	"	"				
	10	2	"	"	"	"					10	7	"	"	"	"				
	11	1	"	"	"	"					11	7	"	"	"	"				
	12	2	"	"	"	"					12	7	"	"	"	"				
P.M.	1	2	"	"	"	"				A strong gale with squalls blowing with a terrific force, tick and very heavy rain.	1	7	"	"	"	"				
	2	2	"	"	"	"				Lightning.	2	7	"	"	"	"				
	3	2	"	"	"	"				Same shipper a very heavy sea, which broke the deck overboard.	3	7	"	"	"	"				
	4	2	"	"	"	"				adrift, got the deck over fixed & secured, set up the lashings.	4	7	"	"	"	"				
	5	2	"	"	"	"				Weather cleared away.	5	7	"	"	"	"				
	6	2	"	"	"	"					6	7	"	"	"	"				
	7	2	"	"	"	"					7	7	"	"	"	"				
	8	2	"	"	"	"					8	7	"	"	"	"				
	9	2	"	"	"	"					9	7	"	"	"	"				
	10	2	"	"	"	"					10	7	"	"	"	"				
	11	1	"	"	"	"					11	6	"	"	"	"				
	12	1	"	"	"	"					12	6	"	"	"	"				

29.60 60 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
98° W	40'	0° 40' S	5.6'	13° 4' S	13° 4' S	8° E	0° 6' W	174° 6' W	174° 8' W	74° W	164'	2° 39' S	39.7'	16° 28' S	16° 33' S	8° E	0° 41' W	174° 58' W	174° 57' W

29.65 62 Days out.

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	^{1st} Tues day of Jan 2 nd 1900	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	^{2nd} Sunday of Jan 4 th 1900
A.M.	1	6	.	S 1/2 W	SW	0				Strong breeze & squally A very nasty sea. shipped lots of water.		1	3	.	South	Wly S	1					Moderate & fair
	2	6	.	"	"	"						2	3	.	"	"	"					very heavy swell
	3	6	.	"	"	"						3	3	.	SSE	S 1/2 W	"					set foretop gallant sail
	4	6	.	"	"	"						4	3	.	"	"	"					
	5	6	.	"	"	"						5	3	.	"	"	"					
	6	6	.	"	"	"						6	3	.	"	"	"					
	7	6	.	"	"	"						7	2	.	SW	"	"					6 p.m. but about
	8	6	.	"	"	"						8	2	.	"	"	"					Light & fair.
	9	6	.	"	"	"						9	2	.	"	"	"					
	10	6	.	"	"	"						10	2	.	"	"	"					
	11	6	.	"	"	"						11	2	.	"	"	"					
	12	6	.	"	"	"						12	2	.	"	"	"					
P.M.	1	6	.	S 1/2 W	"	"				At 6 p.m. & main topmast staysail set		1	1	.	SW by W	SW	"					Light & cloudy
	2	6	.	"	"	"						2	1	.	"	"	"					
	3	7	.	"	"	"						3	1	.	"	"	"					
	4	7	.	"	"	"						4	1	.	"	"	"					
	5	7	.	"	"	"						5	1	.	SW	S 1/2 W	"					
	6	7	.	"	"	"						6	1	.	"	"	"					
	7	7	.	"	"	"						7	1	.	"	"	"					Light & fair
	8	7	.	"	"	"						8	1	.	"	"	"					
	9	6	.	"	"	"						9	1	.	"	"	"					
	10	6	.	"	"	"						10	1	.	"	"	"					
	11	6	.	"	"	"						11	2	.	"	"	"					
	12	6	.	"	"	"						12	2	.	"	"	"					
									29.69		6.3 Saws ant.									30.02		6.5 Saws ant.

63 Days out.

65 Days out.

	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	18:W	150'	2:23	46.4'	18:56	18:58	9:6	0:49W	175:47W	175:22W		48:W	9'	0:6	6.7'	19:35	19:38	9:6	0:4'W	176:1'W	175:56'W
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
	Wednesday Jan 3 rd 1900																				
A.M.	1	4	.	SW	W by W	1				Strong and squally. heavy sea.		1	2	.	West	W by W	1/2				Light & fair high sw. swell.
	2	4	.	"	"	"						2	2	.	"	"	"				
	3	4	.	"	"	"						3	2	.	"	"	"				
	4	4	.	"	"	"						4	2	.	"	"	"				
	5	4	.	SW	W by W	"						5	2	.	"	"	"				
	6	4	.	"	"	"				Work ship		6	2	.	"	"	"				
	7	3	.	SW	"	1 1/2				D ^o		7	2	.	SW by W	SW	"				Light & cloudy.
	8	3	.	"	"	"						8	2	.	"	"	"				
	9	3	.	"	WNW	"						9	2	.	"	"	"				
	10	3	.	"	"	"						10	2	.	"	"	"				Set on main royal
	11	3	.	"	"	"						11	2	.	"	"	"				
	12	3	.	"	"	"				Work ship		12	2	.	"	"	"				
P.M.	1	3	.	SW	W by W	"				D ^o		1	2	.	SW by W	SW	"				D ^o
	2	3	.	"	"	"						2	2	.	"	"	"				
	3	3	.	"	"	"						3	2	.	"	"	"				
	4	3	.	"	"	"						4	2	.	"	"	"				
	5	3	.	"	"	"						5	2	.	"	"	"				
	6	3	.	"	"	"						6	2	.	"	"	"				
	7	3	.	"	"	"				Moderating, squally		7	3	.	"	"	"				D ^o
	8	3	.	"	"	"				Set main sail.		8	3	.	"	"	"				
	9	3	.	SW	"	1						9	3	.	SW by W	SW	1/4				
	10	3	.	"	"	"				Set fl. jib, spanker, main & only gallant sail.		10	3	.	"	"	"				
	11	2	.	"	"	"						11	3	.	"	"	"				
	12	2	.	"	"	"						12	3	.	"	"	"				
									29.88											30.04	
										64 Days out											66 Days out.
	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	10:W	40'	0:39	6.9'	19:7	19:41	9:6	0:4'W	175:54	175:48		67:W	50'	0:20	46.0'	19:58	20:4	9:6	0:49W	176:50W	176:41'W

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Saturday Jan 6 th 1900										Sunday Jan 7 th 1900									
A.M.	1	3	"	SW by S	1/2				Moderate & fair	A.M.	1	6	"	SW by W	ESE	0			Fresh & cloudy.
	2	3	"	"	"				Sw. swell.		2	6	"	"	"	"			moderate sea.
	3	4	"	"	"						3	5	"	"	"	"			
	4	4	"	"	"						4	5	"	"	"	"			
	5	4	"	"	"						5	5	"	"	"	"			
	6	4	"	"	"						6	5	"	"	"	"			
	7	4	"	SW by S	SE				Fresh & fair		7	5	"	"	"	"			SE
	8	4	"	"	"						8	5	"	"	"	"			
	9	5	"	"	"						9	5	"	"	"	"			
	10	5	"	"	"						10	5	"	"	"	"			
	11	5	"	"	"						11	5	"	"	"	"			
	12	5	"	"	"						12	5	"	"	"	"			
P.M.	1	4	"	"	"				SE	P.M.	1	5	"	"	"	"			moderate & fair
	2	4	"	"	"						2	5	"	"	"	"			
	3	4	"	"	"						3	4	"	"	"	"			
	4	4	"	"	"						4	4	"	"	"	"			
	5	5	"	"	"						5	4	"	"	"	"			
	6	5	"	"	"						6	4	"	"	"	"			
	7	5	"	"	"				SE		7	5	"	"	"	"			Fresh & squally.
	8	5	"	"	"						8	5	"	WNW	SE	1/2			
	9	6	"	SW	0						9	5	"	"	"	"			
	10	6	"	"	0.26						10	5	"	WNW	SE	"			
	11	6	"	"	"						11	5	"	SW by W	SE	0			
	12	6	"	"	"			30.05			12	5	"	"	"	"		30.08	

67 Days out.

69 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
94° 49' W	110	1° 12' S	83.0	21° 16' S	21° 13' S	9° E	1° 29' W	178° 19' W	178° 19' W	97° 12' W	113	0° 37' S	106.8	22° 48' S	23° 2' S	10° E	1° 56' W	177° 45' E	177° 34' E
Monday Jan 8 th 1900										Tuesday Jan 9 th 1900									
A.M.	1	5	"	SW by W	ESE	0			Fresh & fair	A.M.	1	6	"	SW by W	ESE	0			Fresh & squally.
	2	5	"	"	"				moderate sea.		2	6	"	"	"	"			moderate sea.
	3	5	"	"	"						3	6	"	"	"	"			
	4	5	"	"	"						4	6	"	"	"	"			
	5	5	"	"	"						5	7	"	"	"	"			
	6	5	"	"	"						6	7	"	"	"	"			
	7	4	"	"	"				Moderate & squally.		7	6	"	"	"	"			SE
	8	4	"	"	"						8	6	"	"	"	"			
	9	4	"	"	"						9	6	"	"	"	"			
	10	4	"	"	"						10	6	"	"	"	"			
	11	5	"	"	"						11	6	"	"	"	"			
	12	5	"	"	"						12	6	"	"	"	"			
P.M.	1	5	"	"	"				Fresh & squally.	P.M.	1	6	"	"	"	"			SE
	2	5	"	"	"						2	6	"	"	"	"			
	3	5	"	"	"						3	6	"	"	"	"			
	4	5	"	"	"						4	6	"	"	"	"			
	5	6	"	"	"						5	6	"	"	"	"			
	6	6	"	"	"						6	6	"	"	"	"			
	7	6	"	"	"				SE		7	6	"	"	"	"			Fresh & fair
	8	6	"	"	"						8	6	"	"	"	"			
	9	4	"	"	"						9	7	"	"	"	"			
	10	4	"	"	"						10	7	"	"	"	"			
	11	7	"	"	"						11	7	"	"	"	"			
	12	7	"	"	"			30.06	Changea date.		12	7	"	"	"	"		30.08	
68 Days out.										70 Days out.									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
96° 0' W	128	1° 4' S	110.9	22° 17' S	22° 11' S	9° E	2° 0' W	179° 41' E	179° 28' E	96° 12' W	150	1° 13' S	131.2	24° 15' S	24° 16' S	10° E	2° 24' W	175° 21' E	175° 16' E

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Thursday Jan 11 th 1900											Friday Jan 13 th 1900
A.M.	1	7		SWW	ESE	0				Fresh & squally moderate sea.	A.M.	1	3		SWW	NE	0				Light & fair smooth sea.
	2	7		"	"	"						2	3		"	ESE	"				
	3	8		"	"	"						3	3		"	"	"				
	4	8		"	"	"						4	3		"	"	"				
	5	7		"	"	"						5	2		"	"	"				
	6	7		"	"	"						6	2		"	"	"				
	7	7		"	"	"				Fresh breeze, partly cloudy.		7	2		"	"	"				Light & cloudy.
	8	7		"	"	"						8	2		"	"	"				
	9	7		"	"	"						9	2		"	"	"				
	10	7		"	"	"						10	2		"	"	"				
	11	7		"	"	"						11	2		"	"	"				
	12	7		"	"	"						12	2		"	"	"				
P.M.	1	7		"	"	"				Fresh & fair passing clear.	P.M.	1	2		"	NE	"				2 nd
	2	7		"	"	"						2	2		"	"	"				
	3	6		"	"	"						3	2		"	"	"				
	4	6		"	"	"						4	2		"	"	"				
	5	6		"	"	"						5	2		"	"	"				
	6	6		"	"	"						6	2		"	"	"				
	7	5		"	"	"				2 nd		7	2		"	"	"				2 nd
	8	5		"	"	"						8	2		"	"	"				
	9	6		"	"	"						9	2		"	NNE	"				Set up deckload lashings, lashed our shutters down across the deckload.
	10	6		"	"	"						10	2		"	"	"				
	11	6		"	"	"						11	2		"	"	"				
	12	6		"	"	"			30.05			12	2		"	"	"			30.00	

71 Days out.

73 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SWW	158'	1:17'S	138.2'	25:33'S	25:30'S	10'E	2:32'W	172:49'E	172:45'E		SWW	82'	0:24'S	48.9'	26:41'S	—	11'E	0:51'W	170:32'E	—
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
									Friday Jan 12 th 1900											Saturday Jan 14 th 1900
A.M.	1	5		SWW	ESE	0			Fresh & fair moderate sea.	A.M.	1	2		SE by S	SW	1/2				Very light air & cloudy smooth sea.
	2	5		"	"	"					2	2		"	"	"				
	3	5		"	"	"					3	2		"	"	"				
	4	5		"	"	"					4	2		"	"	"				
	5	5		"	East	"					5	1		"	"	"				
	6	5		"	"	"					6	0		Calm	Calm	"				Calm, cloudy weather.
	7	4		"	ESE	"			Moderate & fair.		7	0		"	"	"				
	8	4		"	"	"					8	0		"	"	"				
	9	4		"	"	"					9	1		SWW	SE	0				Light breeze from SE.
	10	4		"	"	"					10	2		"	"	"				
	11	4		"	"	"					11	2		"	"	"				
	12	4		"	"	"					12	2		"	"	"				
P.M.	1	4		"	"	"			2 nd	P.M.	1	3		"	"	"				Light partly cloudy.
	2	4		"	"	"					2	3		"	"	"				
	3	3		"	NE	"					3	3		"	"	"				
	4	3		"	"	"					4	3		"	"	"				
	5	3		"	"	"					5	3		"	"	"				
	6	3		"	"	"					6	3		"	"	"				
	7	3		"	"	"					7	3		"	"	"				
	8	3		"	"	"			Light & fair shifted fore top gallant sail, main & only lower topsails.		8	3		"	"	"				moderate light squalls.
	9	2		"	"	"					9	4		"	"	"				
	10	2		"	"	"					10	4		"	"	"				
	11	2		"	"	"					11	4		"	"	"				
	12	2		"	"	"			30.01		12	4		"	"	"				30.03

72 Days out.

74 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SWW	88'	0:43'S	44.0'	26:13'S	26:17'S	10'E	1:26'W	171:23'E	171:11'E		SWW	48'	0:30'S	37.3'	27:11'S	27:13'S	11'E	0:42'W	169:50'E	169:40'E

From Port Ludlow towards Fremantle.

	H.	K.	½ K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>to Monday of Jan 15. 1900</i>
A.M.	1	6	"	<i>SWNW</i>	<i>SE</i>	0				<i>Fresh breeze passing light squalls. moderate sea.</i>
	2	6	"	"	"	"				
	3	6	"	"	"	"				
	4	6	"	"	"	"				
	5	6	"	"	"	"				
	6	6	"	"	"	"				
	7	5	"	"	"	"				<i>Do.</i>
	8	5	"	"	"	"				
	9	5	"	"	"	"				
	10	5	"	"	"	"				
	11	5	"	"	"	"				
	12	5	"	"	"	"				
P.M.	1	5	"	"	"	"				<i>Do.</i>
	2	5	"	"	"	"				
	3	5	"	"	<i>SE</i>	"				
	4	5	"	"	"	"				
	5	6	"	"	"	"				
	6	6	"	"	"	"				
	7	6	"	"	"	"				<i>Fresh and fair.</i>
	8	6	"	"	"	"				
	9	6	"	"	"	"				
	10	6	"	"	"	"				
	11	5	"	"	"	"				
	12	5	"	"	"	"				
									30.14	<i>75. None set.</i>

75 days out.

	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	162° W	132'	1° 2' S	116.5'	28° 8' S	28° 9' S	11° E	2° 12' W	167° 38' E	167° 23' E
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	6	"	SW & W	E S E	0				Fresh & squally. moderate sea.
	2	6	"	"	"	"				
	3	6	"	"	"	"				
	4	6	"	"	"	"				
	5	6	"	"	"	"				
	6	6	"	"	"	"				
	7	7	"	"	"	"				Fresh & fair
	8	7	"	"	"	"				
	9	6	"	"	"	"				
	10	6	"	"	"	"				
	11	6	"	"	"	"				
	12	6	"	"	"	"				
P.M.	1	5	"	"	East	"				Dr.
	2	5	"	"	"	"				
	3	5	"	"	"	"				
	4	5	"	"	"	"				
	5	5	"	"	"	"				
	6	5	"	"	"	"				
	7	5	"	"	"	"				Fresh partly cloudy.
	8	5	"	"	"	"				Ship's foretopmast staysail
	9	5	"	"	E S E	"				
	10	5	"	"	"	"				
	11	5	"	"	"	"				
	12	5	"	"	"	"				
									30.14	76 Days out.
	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	162° W	134'	1° 3' S	118.3'	29° 13' S	29° 11' S	11° E	2° 15' W	165° 23' E	165° 23' E

76 Days out.

H.	K.	1/2 K.	COURSES	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Wed. day 7. 1890									
1	6	"	NW 1/2 W	SE	0				Fresh breeze & squally moderate sea.
2	6	"	"	"	"				
3	6	"	"	"	"				
4	6	"	"	"	"				
5	6	"	"	"	"				
6	6	"	"	"	"				
7	5	"	"	"	"				Fresh & fair
8	5	"	"	"	"				
9	5	"	"	ESE	"				
10	5	"	"	"	"				
11	5	"	"	"	"				
12	5	"	"	"	"				
1	5	"	"	"	"				Fresh partly cloudy
2	5	"	"	"	"				
3	4	"	"	"	"				
4	4	"	"	"	"				
5	5	"	"	"	"				
6	5	"	"	"	"				
7	5	"	"	"	"				29°
8	5	"	"	"	"				
9	5	"	"	"	"				
10	5	"	"	"	"				
11	5	"	"	"	"				
12	5	"	"	"	"				

77 Days out

17 Days out.									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
062°W	124'	02°58' S	109.5'	30°9' S	30°12' S	11° E	22°6' W	163°17' E	163°18' E
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
1	4	"	SW 1/2 W	SE	0				Moderate breeze partly cloudy. Smooth Sea.
2	4	"	"	"	"				
3	4	"	"	"	"				
4	4	"	"	"	"				
5	4	"	"	"	"				
6	4	"	"	"	"				
7	4	"	"	"	"				
8	4	"	"	"	"				
9	4	"	"	"	"				
10	4	"	"	"	"				
11	4	"	"	"	"				29
12	4	"	"	"	"				
1	4	"	"	"	"				
2	4	"	"	"	"				
3	4	"	"	"	"				
4	4	"	"	"	"				
5	4	"	"	"	"				
6	4	"	"	"	"				
7	4	"	"	"	"				
8	4	"	"	"	"				
9	3	"	"	"	"				29
10	3	"	"	"	"				
11	3	"	"	"	"				
12	3	"	"	"	"				
						30.2	78 Days out.		
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
062°W	95'	02°45' S	83.9'	30°57' S	30°59' S	11° E	12°38' W	161°23' E	161°24' E

78 Days out.

From Port Ludlow towards Fremantle. From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday Jan 19 th 1900											Saturday Jan 20 th 1900										
A.M.	1	3	"	SW 1/2 W	Sty S	0				Light & fair Smooth sea.	M.	1	6	"	SW	SW	0				Fresh breeze & fair moderate sea.
	2	3	"	"	"	"						2	7	"	"	"	"				
	3	3	"	"	"	"						3	7	"	"	"	"				
	4	3	"	"	"	"						4	7	"	"	"	"				
	5	3	"	"	"	"						5	7	"	"	"	"				
	6	3	"	"	"	"						6	7	"	"	NE NW	"				
	7	3	"	"	"	"				N.		7	6	"	"	"	"				Do
	8	3	"	"	SE	"						8	6	"	"	"	"				
	9	3	"	"	"	"						9	7	"	"	"	"				
	10	3	"	"	E SE	"				Wind veering to eastward		10	7	"	"	"	"				Lead sea.
	11	3	"	"	"	"						11	7	"	"	"	"				Stowed main royal
	12	3	"	"	East	"						12	7	"	"	"	"				
P.M.	1	3	"	"	E NE	"				Light breeze partly cloudy	M.	1	7	"	"	"	"				Increasing breeze
	2	3	"	"	"	"						2	7	"	"	"	"				fair weather.
	3	3	"	"	"	"						3	7	"	"	"	"				Stowed spanker, jib, & gallant sails
	4	3	"	"	"	"						4	7	"	"	"	"				
	5	2	"	"	NE	"				Wind veering to northward		5	7	"	"	Sty S	NW 1/2 N				
	6	2	"	"	"	"						6	8	"	"	"	"				
	7	2	"	"	"	"				Light & fair		7	8	"	"	"	"				Increasing to a gale
	8	2	"	"	"	"						8	8	"	"	"	"				cloudy & squally.
	9	3	"	"	"	"						9	8	"	"	"	"				Stowed main sail, jib,
	10	3	"	"	"	"						10	8	"	"	"	"				Main top, mast staysail, fore
	11	3	"	"	North	"						11	7	"	"	"	"				sail & upper topsails
	12	3	"	"	"	"						12	6	"	"	"	"				29.71 81 Days out
									30.21	49 Days out.											

79 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
162° W	68'	0° 32' S	60.0'	31° 31' S	31° 25' S	11° E	1° 10' W	160° 29' E	160° 45' E

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Saturday Jan 20 th 1900											Sunday Jan 21 st 1900
A.M.	1	2	"	SW	Sty S	0				Light & fair.	P.M.	1	3	"	Sty S	WNW	4				Moderating & squally
	2	2	"	"	"	"				Smooth sea.		2	3	"	"	"	"				Moderate sea.
	3	2	"	"	WNW	"						3	2	"	"	"	"				
	4	2	"	"	"	"						4	2	"	"	"	"				
	5	2	"	"	"	"						5	2	"	"	"	"				Set maintopmast staysail
	6	2	"	"	"	"						6	2	"	"	"	"				jib & spanker.
	7	2	"	"	North	"						7	2	"	Sty W	W SW	3				cleared away.
	8	2	"	"	"	"						8	2	"	Sty W	"	"				moderate & fair
	9	3	"	"	ENE	"						9	2	"	"	"	"				
	10	3	"	"	"	"						10	2	"	Sty E	W SW	"				Set foresail & mizzen
	11	3	"	"	"	"						11	3	"	"	"	"				lower topsail.
	12	3	"	"	"	"						12	3	"	"	"	"				
P.M.	1	4	"	"	"	"				Fresh & fair.	P.M.	1	3	"	Sty E	Sty W	3				Fresh & cloudy.
	2	4	"	"	"	"						2	3	"	"	"	"				
	3	5	"	"	North	"						3	3	"	"	"	"				
	4	6	"	"	"	"						4	3	"	"	"	"				
	5	6	"	"	"	"						5	3	"	Sty E	SW	1 1/2				
	6	6	"	"	"	"						6	3	"	"	"	"				Set topsails
	7	6	"	"	WNW	"				Fresh, partly cloudy		7	3	"	"	"	"				Fresh & fair
	8	6	"	"	"	"						8	3	"	"	"	"				
	9	7	"	"	WN	"						9	3	"	"	"	"				
	10	7	"	"	"	"						10	3	"	"	"	"				
	11	6	"	"	"	"						11	4	"	"	"	"				
	12	6	"	"	"	"						12	4	"	"	"	"				
									30.08	24.00 Balls Pyramide NW & W 80 Days out.										29.84	82 Days out.

30.08 21.00 Ballo Pyramide NW 1/2 W
80 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
162° W	64'	0° 55' S	24.0'	35° 1' S	35° 17' S	11° E	0° 33' E	157° 45' E	157° 52' E

82 Days out.

From Port Ludlow towards Fremantle From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Tuesday Jan 23 rd 1900											Thursday Jan 25 th 1900										
A.M.	1	4	"	SE by S	SW	1/2				Fresh breeze & fair moderate sea.	M.	1	3	"	W by W	South	1				moderate & fair. S.W. swell.
	2	4	"	"	"	"						2	3	"	"	"	"				
	3	3	"	"	"	"						3	3	"	"	"	"				
	4	3	"	"	"	"						4	3	"	"	"	"				
	5	3	"	"	"	"						5	3	"	"	"	"				
	6	3	"	"	"	"						6	3	"	"	"	"				
	7	3	"	SE 1/2 S	SW by S	"				Decreasing to a light breeze, fine weather		7	3	"	SW by W	SE by E	"				Light
	8	2	"	"	"	"						8	3	"	"	"	"				
	9	2	"	"	"	"						9	3	"	"	"	"				
	10	2	"	"	"	"						10	3	"	"	"	"				
	11	2	"	"	"	"						11	2	"	"	"	"				
	12	1	"	"	"	"						12	2	"	"	"	"				
P.M.	1	1	"	"	"	"				Light & fair	M.	1	2	"	SW by W	"	"				Light
	2	1	"	"	"	"						2	2	"	"	"	"				Set main royal.
	3	1	"	SE	SW by W	"						3	3	"	"	"	"				
	4	1	"	"	"	"						4	3	"	"	"	"				
	5	2	"	"	"	"						5	3	"	"	"	"				
	6	2	"	"	"	"						6	3	"	"	"	"				
	7	2	"	"	"	"						7	3	"	"	"	"				Light
	8	2	"	"	"	"				Moderate & squally shifted & set main top gallant sail.		8	3	"	"	"	"				
	9	2	"	SE	SW by S	1						9	4	"	"	"	1/2				
	10	4	"	"	"	"						10	4	"	"	"	"				
	11	3	"	"	"	"						11	4	"	"	"	"				
	12	3	"	"	"	"			30.00			12	4	"	"	"	"			30.13	Set main out.

83 Days out

85 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
440° E	56'	0° 43' 4"	36.0'	36° 0' 4"	36° 0' 4"	11° E	0° 45' 8"	158° 30' E	158° 34' E	481° W	71'	0° 11' 4"	40.1'	36° 50' 4"	36° 48' 4"	11° E	1° 28' 4"	157° 19' E	157° 24' E

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										to Wed. day Jan 24 th 1900											to Fri day Jan 26 th 1900
A.M.	1	3	"	SE by S	SW	1				Moderate & squally S.W. swell.	M.	1	4	"	SW by W	SE by E	1/2				Moderate & fair S.W. swell.
	2	3	"	"	"	"						2	4	"	"	"	"				
	3	2	"	"	"	"						3	4	"	"	"	"				
	4	2	"	"	"	"						4	4	"	"	"	"				
	5	2	"	"	"	"						5	4	"	"	"	"				
	6	2	"	"	"	"						6	4	"	"	"	"				
	7	2	"	"	"	"				Light		7	5	"	SW by W	SE by S	"				Light
	8	2	"	"	"	"						8	5	"	"	"	"				
	9	2	"	"	"	"						9	4	"	"	"	"				
	10	2	"	"	"	"						10	4	"	"	"	"				
	11	3	"	"	"	"						11	3	"	"	"	"				
	12	3	"	"	"	"						12	2	"	"	"	"				
P.M.	1	3	"	SE by E	SW	"				Light	M.	1	2	"	"	"	"				Light & fair
	2	3	"	"	"	"						2	1	"	"	"	"				
	3	3	"	"	"	"						3	2	"	"	"	"				
	4	3	"	"	"	"						4	1	"	"	"	"				
	5	4	"	SE	South	"				S.a.m. wore ship. All sails set & main royal moderate & fair		5	2	"	"	"	"				
	6	3	"	W by W	"	"						6	1	"	"	"	"				
	7	2	"	"	"	"						7	2	"	"	"	"				Light
	8	2	"	"	"	"						8	1	"	"	"	"				
	9	2	"	"	"	"						9	2	"	"	"	"				
	10	2	"	"	"	"						10	1	"	"	"	"				
	11	2	"	"	"	"						11	2	"	"	"	"				
	12	2	"	"	"	"						12	1	"	"	"	"				
									30.10	84 Days at sea										30.12	86 Days out

84 Days at sea

86 Days out

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
420° E	35'	0° 32' 4"	13.7'	36° 2' 4"	36° 39' 4"	11° E	0° 17' 8"	158° 47' E	158° 57' E	469° W	65'	0° 23' 4"	60.7'	37° 11' 4"	37° 1' 4"	11° E	1° 16' 4"	156° 3' E	155° 58' E

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Saturday Jan 27 th 1900										Monday Jan 29 th 1900									
P.M.	1	2	SWNW	East	0				Light & fair	M.	1	1	SWNW	NE	0				very light & fair
	2	2	"	"	"				smooth sea.		2	2	"	"	"				smooth sea.
	3	2	"	NE	"						3	1	"	"	"				
	4	2	"	"	"						4	2	"	"	"				
	5	2	"	NE	"						5	1	"	"	"				
	6	2	"	North	"						6	2	"	"	"				
	7	3	SWNW	SWNW	"				Increasing to a fresh		7	3	"	NE	"				Increasing partly cloudy
	8	3	"	"	"				breeze, fair weather.		8	4	"	"	"				
	9	4	"	"	"						9	5	"	"	"				
	10	5	"	"	"						10	5	"	"	"				
	11	6	"	"	"						11	6	"	North	"				
	12	7	"	"	"						12	6	"	"	"				
P.M.	1	8	"	SWNW	"				Fresh & fair.	M.	1	7	"	"	"				Fresh breeze partly cloudy
	2	8	"	"	"				main royal & spraker		2	7	"	"	"				
	3	8	"	"	"				fast.		3	8	"	"	"				
	4	8	"	"	"				Cloudy.		4	8	"	"	"				
	5	8	"	"	"						5	9	"	"	"				
	6	8	"	"	"						6	8	"	"	"				
	7	8	"	"	"				Stray & cloudy.		7	8	"	SWNW	"				Fresh & hazy.
	8	8	"	"	"				fl. jib, mig. & fore gall		8	8	"	"	"				shifted spraker.
	9	6	"	"	"				sails fast.		9	8	"	SWNW	"				
	10	6	"	"	"				Set up lee fore rigging		10	8	"	"	"				
	11	5	"	"	"				moderating.		11	7	"	"	"				Set fl. jib.
	12	4	SWNW	WNW	1/2			29.96	87 Days out.		12	7	"	"	"			29.77	89 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SWNW	125'	0:55'	113.3'	38:29'	38:27'	10:E	2:24'	153:39'E	153:58'E	SWNW	124'	1:18'	96.4'	39:58'	39:59'	10:E	2:4'	150:28'E	150:46'E
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Sun day Jan 28 th 1900										Sun day Jan 30 th 1900									
P.M.	1	3	SWNW	SWNW	1				Moderate, cloudy & squally.	M.	1	6	SWNW	SWNW	0				Fresh breeze & hazy
	2	3	"	"	"				moderate sea.		2	5	"	"	"				moderate sea.
	3	3	"	"	"						3	4	"	"	"				
	4	3	SE	SE	"				wind veering to South		4	2	"	"	"				Wind falling light
	5	2	"	"	"				and SE. wore ship.		5	6	"	SE	SE	1			Wind changed to SE
	6	2	"	"	"						6	7	"	WSE	"				increasing very
	7	2	SWNW	SE	1/2				Fresh breeze & cloudy		7	6	"	"	"				rapidly shortened sail
	8	4	"	SE	"						8	3	"	South	"	3			7 p.m. had the vessel under
	9	5	SW	SE	0				Set fore & mig. top		9	2	"	"	"	"			main & fore lower topsails &
	10	5	"	"	"				gallant sails.		10	2	"	West	"	"			foretopmast & lay sail
	11	5	"	"	"						11	2	"	SW	SW	5			blowing a gale with squally
	12	5	"	"	"				moderate & cloudy.		12	2	"	"	"	"			weather, rain lightning &
P.M.	1	3	"	"	"						1	2	"	"	"	"			thunder.
	2	3	"	"	"						2	2	"	"	"	"			
	3	3	"	"	"						3	2	"	"	"	"			
	4	3	"	"	"						4	2	"	"	"	"			
	5	3	"	"	"						5	2	"	"	"	"			
	6	3	"	"	"				Set main royal		6	2	"	"	"	"			Moderating partly
	7	3	"	ENE	"				light & fair.		7	2	"	"	"	"			cloudy.
	8	3	"	"	"						8	2	"	"	"	"			Set fore sail, mig lower
	9	2	"	"	"						9	2	"	"	"	"			top sail & spraker.
	10	2	"	"	"						10	3	"	"	"	"			
	11	2	"	"	"						11	3	"	"	"	"			
	12	2	"	"	"			30.06	88 Days out.		12	3	"	"	"	"			29.81
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
SWNW	68'	0:44'	52.1'	38:51'	38:40'	10:E	1:27'	152:32'E	152:58'E	SE	71'	1:10'	9.9'	41:9'	41:9'	10:E	0:13'E	150:48'E	151:08'E

From Port Ludlow towards Fremantle. From Port Ludlow towards Fremantle.

Thursday Jan 31 st 1900											Friday Feb 2 nd 1900											
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	
P.M.	1	4	"	SW	W by W	2				Blowing a strong gale of wind, partly cloudy & squally. heavy sea. Shipped for a while.	1	"	"	"	Calm	0					Calm. 2 p.m. got a high easterly wind. heavy head sea all sails set.	
	2	4	"	"	"	"					2	"	"	"	"	"	"					
	3	3	"	"	"	"					3	1	"	By W by W	East	"	"					
	4	3	"	"	"	"					4	2	"	"	"	"	"					
	5	3	"	"	"	"				3 p.m. stowed miz low, topsail & spars	5	3	"	"	E N E	"	"					
	6	2	"	SW	"	5					6	3	"	"	"	"	"					
	7	2	"	"	"	"				Blowing very strong partly cloudy.	7	3	"	"	N E	"	"					moderate & fair
	8	2	"	"	"	"					8	3	"	"	"	"	"					
	9	2	"	"	"	"					9	3	"	"	North	"	"					
	10	2	"	"	"	"					10	4	"	"	"	"	"					
	11	2	"	"	"	"				Shipped lots of water	11	4	"	"	"	"	"					
	12	2	"	"	"	"				Do.	12	5	"	"	"	"	"					
A.M.	1	2	"	"	"	"					1	6	"	"	"	"	"					Fresh & fair.
	2	2	"	"	"	"					2	6	"	"	"	"	"					
	3	2	"	"	"	"					3	6	"	"	"	"	"					
	4	2	"	"	"	"					4	6	"	"	"	"	"					
	5	2	"	"	"	"				Shipped a good deal of water.	5	6	"	"	"	"	"					
	6	2	"	"	"	"				Do.	6	6	"	"	"	"	"					
	7	2	"	"	"	"					7	6	"	"	"	"	"					Fresh and cloudy
	8	2	"	"	"	"					8	6	"	"	"	"	"					
	9	2	"	"	"	"					9	6	"	"	"	"	"					
	10	2	"	"	"	"					10	5	"	"	"	W by W	"					
	11	2	"	"	"	"				moderating, getting cloudy & down looking to S.W. & S. & S.W. 91 Days out.	11	3	"	By E	W by W	1/2						
	12	1	"	"	"	"					12	3	"	"	"	SW	"					
29.77											30.15 93 Days out.											

Thursday Feb. 1 st 1900											Friday Feb 3 rd 1900											
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	
A.M.	1	2	"	W by S	W by S	5				Moderate gale, squally & showery & heavy sea. wind veering to South.	1	5	"	E by S by S	South	1/2					Fresh breeze, partly cloudy heavy S.W. swell. stowed main royal & fl. jib 6 p.m. tacked ship. moderate & cloudy.	
	2	1	"	"	"	"					2	5	"	"	"	"	"					
	3	2	"	W by S	South	6					3	6	"	"	"	"	"					
	4	1	"	"	"	"					4	6	"	"	"	"	"					
	5	2	"	"	"	"					5	5	"	"	"	"	"					
	6	1	"	"	"	"					6	5	"	"	"	"	"					
	7	2	"	"	"	"					Moderate partly cloudy	7	4	"	W by W by W	By E	"					
	8	1	"	"	"	"						8	4	"	"	"	"	"				
	9	2	"	"	"	"						9	3	"	SW by W	SE	"					
	10	1	"	"	"	"						10	3	"	"	"	"	"				
	11	2	"	"	"	"						11	3	"	"	"	"	"				
	12	1	"	"	"	"						12	3	"	"	"	"	"				
P.M.	1	1	"	"	"	"				Light & cloudy. set main & fore upper topsails. set fore sail. Dr. set main & fore upper topsails	1	3	"	SW by W	SE	"					Dr. set fl. jib & main royal moderate & fair	
	2	1	"	"	"	"					2	3	"	"	"	"	"					
	3	1	"	"	"	"					3	4	"	"	"	"	"					
	4	1	"	"	"	"					4	4	"	"	"	"	"					
	5	1	"	"	"	"					5	4	"	"	"	"	"					
	6	1	"	"	"	"					6	4	"	"	"	"	"					
	7	1	"	"	"	"					7	4	"	"	"	"	"					
	8	1	"	"	"	"					8	4	"	"	"	"	"					
	9	1	"	"	"	"					9	4	"	"	"	"	"					
	10	1	"	"	"	"					10	4	"	"	"	"	"					
	11	1	"	"	"	"					11	4	"	"	"	"	"					
	12	1	"	"	"	"					12	4	"	"	"	"	"					
30.20										30.30												
92 Days out.										94 Days out.												
Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.		Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	
S 19° W		29'	0° 27' S	9.4'	41° 34' S	41° 37' S	10° E	0° 13' W	150° 24' E		S 22° W		56'	0° 52' S	21.0'	44° 1' S	44° 10' S	10° E	0° 29' W	149° 1' E	148° 59' E	

From Port Ludlow towards Fremantle

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										<i>Sun day & Feb 4th 1900</i>											<i>Tues day & Feb 6th 1900</i>
A.M.	1	4	"	SW by W	E NE	0				Moderate breeze fair weather.		1	1	"	NNE	W	1				Very light & fair
	2	4	"	"	"	"				Sw. swell.		2	1	"	"	"	"				heavy Sw swell.
	3	4	"	"	"	"						3	1	"	"	"	"				
	4	4	"	"	"	"				hazy.		4	1	"	"	"	"				
	5	4	"	"	NE	"						5	2	"	"	"	"				
	6	4	"	"	"	"						6	2	"	"	"	"				
	7	6	"	"	"	"				Fresh breeze & hazy.		7	3	"	"	"	"				Moderate & fair
	8	6	"	"	"	"						8	3	"	W SW	"	1/2				7 p.m. wore ship.
	9	6	"	"	"	"						9	4	"	"	"	"				
	10	6	"	"	"	"						10	4	"	"	"	"				
	11	6	"	"	"	"						11	4	"	"	"	"				
	12	6	"	"	"	"						12	4	"	"	"	"				
P.M.	1	6	"	"	"	"				Fresh & cloudy with	M.	1	5	"	W SW	NW by N	1/2				Fresh and fair
	2	6	"	"	"	"				mist & foggy.		2	5	"	"	"	"				
	3	6	"	"	"	"						3	6	"	"	"	"				fl. jib & only gall. fast
	4	6	"	"	"	"						4	6	"	"	"	"				
	5	6	"	W by S	"	"						5	5	"	W by S	NW	1				Increasing. Stowed
	6	6	"	"	"	"						6	5	"	"	"	"				Maintopmast staysail, fore
	7	6	"	"	"	"				Fresh & foggy.		7	4	"	"	"	"				& main gallant sails
	8	6	"	"	"	"				Same cleared away.		8	4	"	"	"	"				Strong and fair.
	9	6	"	"	"	"				fair weather.		9	4	"	"	"	"				Stowed mainsail, set up
	10	6	"	"	"	"						10	4	"	"	"	"				topmast, jib & foresail
	11	5	"	"	"	"						11	3	"	W SW	NW	2				cloudy & thick with
	12	5	"	"	"	"						12	3	"	"	"	"				light rain.
									29.67											29.58	97 Days out.

Course.											Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.			
97° 30' W											128	0° 37' S	122 1/4'	44° 47' S	44° 48' S	9° E	2° 52' W	146° 9' E	146° 0' E			
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	To Monday & Feb 5 th 1900												
A.M.	1	6	"	W 3/4 S	NNE	0			Dr. Breeze partly cloudy													
	2	6	"	"	"	"			moderate sea.													
	3	6	"	"	"	"			Stowed main royal & fl. jib													
	4	6	"	"	"	"			wind changed to NW													
	5	7	"	SW by W	NW	1/2			increasing to a strong breeze													
	6	7	"	"	"	"			stowed gallant sails, main sail													
	7	4	"	SW 1/2 S	WNW	1 1/2			for upper topsail, & foresail.													
	8	3	"	"	"	"																
	9	2	"	"	"	"			Moderating cloudy, light rain													
	10	2	"	"	"	"			cleared away.													
	11	2	"	"	"	"																
	12	2	"	"	"	"																
P.M.	1	2	"	South	W SW	"			moderate & cloudy.													
	2	2	"	"	"	"																
	3	2	"	"	"	"																
	4	1	"	"	"	"			wore ship.													
	5	2	"	NW by W	SW	"			Set fore up. topsail, main sail													
	6	2	"	"	"	"			fl. jib, main, & lower gallant													
	7	2	"	"	"	"			sail. Repairing foresail & F. gallant													
	8	2	"	"	"	"			light & cloudy.													
	9	1	"	N by W	West	1																
	10	1	"	"	"	"																
	11	1	"	"	"	"			Set fore sail & fore top gallant sail													
	12	1	"	"	"	"																
											29.90											
											96 Days out.											
Course.											Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.			
97° 10' W											50	0° 16' S	47	45° 49' S	44° 55' S	9° E	1° 27' W	145° 22' E	144° 57' E			
Course.											Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.			
97° 30' W											63'	0° 12' S	61.8'	45° 27' S	—	8° E	1° 27' W	143° 55' E	—			
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	To Wednesday & Feb 7 th 1900												
	1	1	"	N by W	West	4			12.15 p.m. wind changed to West in													
	2	2	"	"	"	"			a very heavy squall. wore ship.													
	3	1	"	"	"	"			stowed fore up. & low topsails													
	4	2	"	"	"	"			heavy sea. 2 p.m. cleared away													
	5	1	"	"	"	"			repaired fore low. topsails													
	6	2	"	"	"	"																
	7	1	"	"	"	"			Strong breeze & fair													
	8	2	"	"	"	"																
	9	1	"	NW by W	SW	3			Set fore low. topsail													
	10	2	"	"	"	"			main topmast staysail													
	11	1	"	"	"	"			Foresail, jib & spanker.													
	12	2	"	"	"	"																
	1	2	"	NW	W SW	2			Strong & fair													
	2	2	"	"	"	"																
	3	2	"	"	"	"																
	4	2	"	"	"	"																
	5	2	"	NW by W	"	1 1/2			Set fore up. topsail													
	6	2	"	"	"	"																
	7	3	"	"	"	"			Strong and fair													
	8	3	"	"	"	"			Repairing maintop gallant													
	9	3	"	WNW	West	"			sail & main sail.													
	10	3	"	"	"	"																
	11	3	"	"	"	"																
	12	3	"	"	"	"																
											30.14											
											98 Days out.											
Course.											Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.			
97° 10' W											50	0° 16' S	47	45° 49' S	44° 55' S	9° E	1° 27' W	145° 22' E	144° 57' E			
Course.											Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.			
N 1/2 E											45'	0° 45' N	0.8'	44° 27' S	44° 27' S	8° E	0° 16' E	143° 36' E	143° 39' E			

From Port Ludlow

towards

Fremantle

From Port Ludlow

towards

Freemantle.

Friday Feb 8 th 1900										Saturday Feb 10 th 1900									
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	3	4	NW	W	1/2			Strong breeze & squally.	1	2	4	SW	NW	1				Moderate & cloudy.
	2	3	4	"	"	"			heavy sea.	2	2	4	"	"	"				heavy head sea.
	3	3	4	"	"	"				3	3	4	"	"	"				set fl. jib, maintopmast stay sail
	4	3	4	"	"	"				4	3	4	"	"	"				spanker fore & only gall. sail.
	5	3	4	"	"	"				5	3	4	"	"	"				
	6	3	4	"	"	"				6	3	4	"	"	"				
	7	3	4	"	"	"				7	3	4	SW	NW	1/2				Fresh & squally.
	8	2	4	SW	WNW	2			7 pm wore ship.	8	3	4	"	"	"				
	9	2	4	"	"	"			on, top mast stay sail fore	9	4	4	"	"	"				
	10	2	4	"	"	"				10	4	4	"	"	"				Slowed fl. jib, only gall. sail
	11	2	4	"	"	"				11	4	4	"	"	"				& maintopmast stay sail.
	12	2	4	"	"	"				12	4	4	"	"	"				
A.M.	1	2	4	"	"	"				1	4	4	W	NW	"				
	2	2	4	"	"	"				2	4	4	"	"	"				
	3	2	4	"	"	"				3	4	4	"	"	"				
	4	2	4	"	"	"			slowed jib & spanker	4	4	4	"	"	"				
	5	2	4	SW	W	"				5	5	4	W	NW	1				
	6	2	4	"	"	"				6	5	4	"	"	"				Slowed fore & main gall. sail
	7	2	4	"	"	"				7	5	4	"	"	"				Strong and squally.
	8	2	4	"	"	"				8	5	4	"	"	"				slowed mainsail
	9	2	4	SW	WNW	"				9	5	4	W	NW	"				
	10	2	4	"	"	"				10	5	4	"	"	"				
	11	2	4	"	"	"				11	5	4	"	"	"				
	12	2	4	"	"	"				12	4	4	"	"	"				
								30.04	99 Days out.									29.77	Slowed miz. up top sail, jib & spanker & fore sail. 101 Days out.
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
125.10	13.0	0.2	5.5	44.33	44.27	8.8	0.8	143.28	143.28	125.10	8.9	0.23	86.0	44.21	44.20	7.8	2.0	141.14	141.14
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	2	4	SW	W	1/2			Strong and squally.	1	3	4	SW	NW	2 1/2				Moderating, squally.
	2	2	4	"	"	"			very heavy sea.	2	3	4	"	"	"				heavy sea.
	3	3	4	"	"	"			set maintop on stay sail, jib	3	2	4	"	"	"				set maintop on stay sail, jib
	4	3	4	"	"	"			& spanker.	4	2	4	"	"	"				& spanker.
	5	2	4	"	"	"			maintopmast stay sail carried	5	2	4	"	"	"				
	6	2	4	"	"	"			away.	6	2	4	"	"	"				
	7	2	4	"	"	"			Moderating & fair	7	2	4	SW	NW	2				Fresh & squally.
	8	2	4	"	"	"				8	2	4	"	"	"				
	9	2	4	"	"	"			set foresail, mainsail	9	2	4	SW	NW	"				Foggy.
	10	2	4	"	"	"			& miz. up. top sail.	10	2	4	"	"	"				
	11	2	4	"	"	"				11	2	4	"	West	"				
	12	2	4	"	"	"				12	2	4	"	"	"				
A.M.	1	2	4	"	"	"				1	2	4	SW	NW	"				wore ship.
	2	2	4	"	"	"				2	2	4	"	"	"				Fresh breeze heavy squalls.
	3	1	4	"	"	"				3	2	4	"	"	"				
	4	1	4	"	"	"			set main gallant sail	4	2	4	"	"	"				Slowed maintop on, stay sail & jib
	5		4	"	"	"				5	3	4	SW	W	1/2				
	6		4	"	"	"				6	3	4	"	"	"				set foresail & maintop on, stay sail
	7		4	"	"	"				7	3	4	"	"	"				
	8		4	"	"	"			Calin & overcast,	8	3	4	"	"	"				Strong breeze fair weather.
	9		4	"	"	"			repairing main topmast	9	4	4	SW	N	1				
	10		4	"	"	"			stay sail.	10	4	4	"	"	"				
	11	1	4	SW	NW	1/4				11	4	4	"	"	"				
	12	2	4	"	"	"				12	4	4	"	"	"				
								30.23	100 Days out.									29.85	set mainsail 102 Days out.
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
119.10	31	0.2	10	43.50	—	8.8	0.14	143.14	—	119.10	31	0.17	26.0	44.31	44.31	7.8	0.16	140.38	140.10

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Monday & Feb 12 th 1900											Wednesday day Feb 14 th 1900
P.M.	1	4	"	NO 1/2 W	SW by W	1				Fresh & fair, passing squalls.		1	4	"	W 1/2 S	WNW	1/2				Fresh & cloudy.
	2	4	"	"	"	"				heavy sea.		2	4	"	"	"	"				high westerly swell.
	3	4	"	"	"	"						3	4	"	"	"	"				
	4	4	"	"	"	"				Set jib, only up topsail &		4	4	"	"	"	"				
	5	4	"	"	"	"				main gallant sail		5	5	"	"	"	"				
	6	4	"	"	"	"						6	5	"	"	"	"				
	7	4	"	NW by N	W by W	1/2				"		7	5	"	W 1/4 S	"	3/4				Increasing, cloudy.
	8	4	"	"	"	"						8	5	"	"	"	"				
	9	4	"	"	"	"				Set fore gallant sail.		9	6	"	"	"	"				
	10	4	"	"	"	"						10	6	"	"	"	"				Stowed fl. jib & gallant sails.
	11	4	"	"	"	"						11	6	"	"	"	"				
	12	4	"	"	"	"						12	6	"	"	"	"				
P.M.	1	4	"	"	"	"				Fresh & squally.		1	5	"	West	"	1/2				Strong breeze cloudy & squally.
	2	4	"	"	"	"						2	5	"	"	"	"				
	3	4	"	"	"	"						3	4	"	"	"	"				Stowed main topsail & staysail, m. m. sail.
	4	4	"	"	"	"						4	3	"	"	"	"				fore sail, spanker only & fore up
	5	4	"	NW by N	W by S	"						5	2	"	SW by W	WNW	2 1/2				topsails, jib carried away.
	6	4	"	"	"	"						6	2	"	"	"	"				
	7	4	"	"	"	"						7	2	"	"	"	"				moderating & squally.
	8	4	"	"	"	"						8	1	"	"	WNW	"				With ship.
	9	4	"	"	"	"						9	2	"	N by W	W by N	3				Set m. t. on, staysail & spanker
	10	4	"	"	"	"						10	2	"	"	"	"				shifted & set jib.
	11	4	"	"	"	"						11	1	"	"	"	"				
	12	4	"	"	"	"			30.10			12	1	"	"	"	"			29.87	105 Days out.

103 Days out.

	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.		Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
	N 28° 10'	96'	1° 25' N	48.1'	42° 39' S	42° 39' S	5° E	1° 2' W	139° 36' E	139° 24' E		S 81° 10' W	77'	0° 12' S	76.1'	42° 5' S	42° 0' S	4° E	1° 42' W	137° 14' E	137° 23' E
	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
										Thursday & Feb 15 th 1900											Friday & Feb 16 th 1900
P.M.	1	4	"	NW by N	W by W	1/2				Fresh & squally		1	2	"	North	WNW	"				Fresh and squally
	2	4	"	"	"	"				high swell.		2	2	"	"	"	"				heavy swell.
	3	4	"	"	"	"						3	2	"	"	"	"				
	4	4	"	"	"	"						4	2	"	"	"	"				
	5	3	"	"	"	"						5	2	"	"	"	"				Set fore up, topsail
	6	3	"	"	"	"						6	2	"	"	"	"				Strong breeze & fair
	7	3	"	"	"	"				moderate & squally		7	2	"	"	"	"				
	8	3	"	"	"	"						8	2	"	"	"	"				
	9	3	"	"	"	"						9	3	"	"	"	"				
	10	3	"	"	"	"						10	3	"	"	"	"				stowed m. t. on, staysail
	11	3	"	"	"	"						11	3	"	"	"	"				jib, spanker & fore
	12	3	"	"	"	"						12	3	"	"	"	"				up topsail.
P.M.	1	2	"	N by W	W by W	"				Fresh & squally.		1	2	"	NW by N	W by W	4				29.42
	2	2	"	"	"	"						2	2	"	"	"	"				Strong gale with
	3	2	"	"	"	"						3	2	"	"	"	"				very heavy squalls.
	4	2	"	"	"	"						4	2	"	"	"	"				stowed m. t. on, up topsail.
	5	1	"	N by E	NW by W	"						5	2	"	NW	"	5				
	6	1	"	"	"	"						6	1	"	"	"	"				
	7	1	"	"	"	"						7	2	"	"	"	"				
	8	1	"	West	N by W	"				Set m. t. on, staysail & spanker		8	1	"	"	"	"				Shipped lots of water.
	9	1	"	"	"	"						9	2	"	"	"	"				
	10	2	"	"	"	"						10	1	"	"	"	"				
	11	3	"	"	"	"						11	2	"	"	"	"				
	12	3	"	"	"	"			30.03			12	1	"	"	"	"			29.60	106 Days out.

104 Days out.

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Friday Feb 16 th 1900										
A.M.	1	2	6	WNW	W & W	6				A strong gale with very heavy squalls. heavy sea shipped a great deal of water.
	2	1								
	3	2								
	4	1								
	5	2								
	6	1								
	7	2								
	8	1								
	9	2		NW by W	SW by W					
	10	1								
	11	2								moderating set oniz. lower topsail and on t. in. staysail.
	12	2								
P.M.	1	2		NW	W & W	5				
	2	2								
	3	1								
	4	2								
	5	2		NW by N	W by S	4				
	6	2								
	7	2								
	8	2								
	9	2		NW	W & W					
	10	1								
	11	1								
	12	2								

30.03

107 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 21° E	40'	0° 37' N	14.3'	40° 38' S	40° 38' S	4° E	0° 19' E	137° 51' E	

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Saturday Feb 17 th 1900										
A.M.	1	2		NW	W & W	2				moderate & squally heavy sea.
	2	2								
	3	2								
	4	2								
	5	2								
	6	2								
	7	2								
	8	2								
	9	2		NW by N	W by S					
	10	2								
	11	3								
	12	3								
P.M.	1	3				1 1/2				D. set for upper topsail
	2	3								
	3	3								
	4	3								
	5	3								
	6	3								
	7	3								
	8	3								
	9	3				1				
	10	3								
	11	3								
	12	3								

30.14

108 Days at sea.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 21° W	61'		9.5'	39° 37' S	39° 37' S	4° W	0° 12' W	137° 48' E	137° 25' E

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Sunday Feb 18 th 1900										
M.	1	4		NW 3/4 W	W by S	3/4				Fresh & cloudy. heavy swell.
	2	4								
	3	4								
	4	4								
	5	4								
	6	4								
	7	4		NW 1/2 W	SW by W	1/2				
	8	4								
	9	4								
	10	4								
M.	11	3								moderate & cloudy all sails set.
	12	3								
	1	3		NW 1/2 W	SW					
	2	3								
	3	3								
	4	3								
	5	3		N 1/4 W	Wish					
	6	3								
	7	3								
	8	3								
	9	2		N 1/2 W	W by N					Light & cloudy.
	10	2								
	11	2								
	12	2								

30.21

109 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 28° W	75'	1° 6' N	31.2'	38° 31' S	38° 30' S	3° E	0° 45' W	137° 0' E	136° 57' E

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Monday Feb 19 th 1900										
M.	1	3		NW 1/2 W	W & W	1/2				Light and fair W. & W. swell.
	2	3								
	3	3								
	4	3								
	5	2								
	6	2								
	7	2								
	8	1								
	9	1								
	10				Calm					
M.	11									Very light air, cloudy.
	12									
	1	1		NW 1/2 E	NW 1/2 W	1/2				
	2	1								
	3	1								
	4	1								
	5	1		SW 1/2 W	NW					
	6	1								
	7	2								
	8	2								
	9	2								Light breeze & cloudy.
	10	2								
	11	3								
	12	3								

30.02

110 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 60° W	26'	0° 18' N	22.5'	38° 12' S	38° 12' S	3° E	0° 22' W	136° 32' E	136° 33' E

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.		H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Tuesday of Feb 20 th 1900											Tuesday of Feb 22 nd 1900										
P.M.	1	3	"	SW	WNW	1/2				Fresh & cloudy.	M.	1	2	"	SW	WNW	1				Light & overcast
	2	3	"	"	"	"				moderate sea.		2	2	"	"	"	"				heavy swell from W.S.W.
	3	4	"	"	"	"						3	2	"	"	"	"				
	4	4	"	"	"	"						4	2	"	"	"	"				
	5	4	"	SW	West	"						5	2	"	"	"	"				
	6	4	"	"	"	"						6	2	"	"	"	"				
	7	4	"	"	"	"				Dr & squally.		7	3	"	"	"	"				moderate & overcast
	8	4	"	"	"	"				stowed main royal & jib		8	3	"	"	"	"				
	9	5	"	"	"	"				Increasing.		9	2	"	"	"	"				
	10	5	"	"	"	"				11 p.m. wore ship, stowed jib & ga		10	2	"	"	"	"				
	11	4	"	"	"	"				M.t. on staysail, spanker & mainsail		11	3	"	"	"	"				
	12	5	"	WNW	"	"				Strong breeze partly	M.	1	3	"	"	"	"				Dr
P.M.	1	4	"	SW	WSW	1				cloudy, stowed fore		2	2	"	"	"	"				
	2	4	"	"	"	"				and main gallant sails		3	3	"	"	"	"				
	3	4	"	"	"	"						4	2	"	"	"	"				
	4	4	"	"	"	"						5	3	"	"	"	"				
	5	4	"	SW by W	SW by W	"				Set spanker.		6	3	"	"	"	"				
	6	4	"	"	"	"				Fresh, partly cloudy.		7	3	"	"	"	"				moderate & cloudy.
	7	4	"	"	"	"						8	3	"	"	"	"				
	8	4	"	"	"	"						9	3	"	SW by W NW	"	"				
	9	4	"	"	"	"				Set main t. on staysail		10	3	"	"	"	"				
	10	4	"	"	"	"				& mainsail.		11	3	"	"	"	"				
	11	4	"	"	"	"						12	3	"	"	"	"				
	12	4	"	"	"	"				30.13											29.84
111 Days out.											113 Days out.										

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 86° W	51'	0° 4' N	50.9'	38° 13' S	38° 14' S	3° E	1° 5' W	135° 27' E	135° 27' E	N 39° W	62'	0° 48' S	39.0'	38° 26' S	38° 26' S	2° E	0° 50' W	133° 57' E	133° 57' E
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Wednesday of Feb 21 st 1900										Thursday of Feb 23 rd 1900									
P.M.	1	4	"	SW by W	SW by W	1			Fresh breeze partly cloudy,	M.	1	4	"	WSW NW	NW	1			Fresh & cloudy.
	2	4	"	"	"	"			heavy swell.		2	4	"	"	"	"			heavy head sea.
	3	4	"	"	"	"			Set gallant sails.		3	4	"	"	"	"			
	4	4	"	"	"	"					4	4	"	"	"	"			
	5	4	"	"	"	"					5	4	"	"	"	"			
	6	4	"	"	"	"					6	4	"	"	"	"			
	7	3	"	SW by W	SW	"			Decreasing, light & cloudy		7	4	"	"	"	"			
	8	3	"	"	"	"					8	4	"	"	"	"			
	9	2	"	"	"	"					9	4	"	WNW	West	1/2			
	10	2	"	"	"	"					10	4	"	"	"	"			
	11	2	"	"	"	"					11	4	"	"	"	"			
	12	2	"	"	"	"					12	4	"	"	"	"			
P.M.	1	2	"	SW by W	WSW	"			Light & cloudy.	M.	1	3	"	SW by W	W by S	2 1/2			
	2	2	"	"	"	"					2	3	"	"	"	"			
	3	2	"	"	"	"					3	3	"	"	"	"			
	4	2	"	"	"	"					4	3	"	"	"	"			
	5	2	"	SW by W	W by S	"					5	2	"	"	"	"			
	6	2	"	"	"	"					6	2	"	"	"	"			
	7	1	"	"	"	"					7	2	"	"	"	"			
	8	1	"	"	"	"			very light air, overcast.		8	2	"	"	"	"			
	9	1	"	"	"	"			wore ship.		9	2	"	"	"	"			
	10	1	"	"	"	"					10	2	"	"	"	"			
	11	1	"	"	"	"					11	2	"	"	"	"			
	12	1	"	"	"	"					12	2	"	"	"	"			
30.19										29.79									
112 Days out.										114 Days out.									

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.	Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 41° W	48'	0° 36' N	37.5'	37° 50' S	—	2° E	0° 40' W	134° 47' E	—	N 48° W	43'	0° 29' N	32.0'	37° 57' S	37° 57' S	2° E	0° 41' W	133° 46' E	132° 57' E

From Port Ludlow towards Fremantle.

From Port Ludlow towards Fremantle.

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Saturday 24 Feb 1890										
P.M.	1	2	"	N 1/2 W	W by N	1/2				Shy breeze partly cloudy heavy sea.
	2	2	"	"	"	"				
	3	3	"	"	"	"				
	4	3	"	"	"	"				
	5	3	"	"	"	"				
	6	3	"	"	"	"				M.t.m. staysail down. was about
	7	2	"	Sw	WNW	1/2				Strong and cloudy.
	8	2	"	"	"	"				
	9	2	"	"	"	"				
	10	2	"	"	"	"				
	11	2	"	"	"	"				
	12	2	"	"	"	"				
A.M.	1	2	"	"	"	"				Do
	2	2	"	"	"	"				
	3	2	"	"	"	"				
	4	2	"	"	"	"				
	5	2	"	Sw by S	W by N	1/2				
	6	2	"	"	"	"				Set foresail & m.t.m. staysail.
	7	2	"	"	"	"				Moderate, light showers of rain
	8	2	"	"	"	"				
	9	2	"	"	"	"				
	10	2	"	South	W by W	"				
	11	2	"	"	"	"				
	12	2	"	"	"	"				
29.84 Set jib worn ship. 115 Days out.										

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Monday 25 Feb 1890										
M.	1	2	"	West	E NE	0				Light & cloudy. Heavy heads.
	2	3	"	"	"	"				
	3	3	"	"	"	"				
	4	3	"	"	"	"				
	5	3	"	"	"	"				
	6	2	"	"	N E	"				
	7	2	"	Sw by W	West	1/2				Wind veered to West through North. Royal & fl. jib fast. tacked.
	8	4	"	N NW	S by W	1				Wind changed to S by W in a very heavy squall. Stowed gallantails only up. topsail courses, jib m.t.m. staysail & spanker.
	9	5	"	W by N	"	"				Main gallantail carried away.
	10	4	"	"	"	"				
	11	3	"	"	"	"				
	12	3	"	"	Sw	"				
M.	1	3	"	WNW	"	1/2				Strong and squally.
	2	3	"	"	"	"				
	3	2	"	"	"	"				
	4	2	"	"	"	"				
	5	3	"	"	"	"				
	6	3	"	"	"	"				Set spanker.
	7	2	"	"	"	"				
	8	2	"	"	"	"				Moderating fair.
	9	3	"	"	"	1				
	10	3	"	"	"	"				Set m.t.m. staysail foresail jib only up. topsail & main
	11	4	"	"	"	"				30.20
	12	4	"	"	"	"				117 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 19 1/2 W	19'	0° 18' S	6.2'	38° 14' S	38° 12' S	1° E	0° 8' W	133° 8' E	—
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Sunday 26 Feb 1890									
P.M.	1	2	"	N 1/2 E	WNW	1			Moderate & showery. heavy westerly swell.
	2	2	"	"	"	"			
	3	2	"	"	"	"			
	4	2	"	Sw 1/2 W	NW by W	"			3 pm wore ship set mig. up topsail, main sail & main gallantail.
	5	3	"	"	"	"			
	6	3	"	"	"	"			
	7	2	"	W Sw	NW	"			Moderate & fair
	8	2	"	"	"	"			
	9	2	"	"	"	"			
	10	2	"	"	"	"			
	11	2	"	"	"	"			
	12	2	"	"	"	"			
A.M.	1	2	"	West	N NW	"			Set fore & mig. gallantails
	2	2	"	"	"	"			
	3	1	"	"	"	"			Light & fair
	4	1	"	"	"	"			
	5	2	"	W 1/2 N	N NW	1/2			Set sails set
	6	2	"	"	"	"			
	7	2	"	"	"	"			
	8	2	"	"	"	"			Light, cloudy & showery.
	9	3	"	West	N E	0			
	10	3	"	"	"	"			
	11	2	"	"	"	"			
	12	2	"	"	"	"			
29.79 116 Days out.									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 78 1/2 W	38'	0° 8' S	12.2'	38° 25' S	38° 25' S	1° E	0° 47' W	132° 24' E	132° 24' E

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 64 1/2 W	65'	0° 28' N	58.6'	37° 57' S	37° 52' S	0°	1° 14' W	131° 7' E	131° 6' E
H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
Sunday 27 Feb 1890									
M.	1	4	"	NW by W	Sw	1			Fresh & fair. heavy westerly swell. shifted & set main gallantail, set fore gallantail
	2	4	"	"	"	"			
	3	4	"	"	"	"			
	4	4	"	"	"	"			
	5	3	"	"	"	"			
	6	3	"	"	"	"			
	7	3	"	"	"	"			Decreasing to a light breeze cloudy weather.
	8	3	"	"	"	"			Set mig. gallantail
	9	2	"	"	"	"			
	10	2	"	N NW	W Sw	"			
	11	2	"	"	"	"			
	12	2	"	"	"	"			
M.	1	3	"	N NW	West	"			Moderate & cloudy.
	2	3	"	"	"	"			
	3	3	"	"	"	"			
	4	3	"	"	"	"			
	5	2	"	"	"	"			
	6	2	"	"	"	"			
	7	2	"	"	"	"			Very light & overcast.
	8	2	"	"	"	"			Set fl. jib
	9	2	"	North	N NW	"			
	10	1	"	"	"	"			
	11	1	"	"	"	"			
	12	1	"	"	"	"			
29.79 116 Days out.									
Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 61 1/2 W	57'	0° 49' N	58.7'	37° 57' S	37° 52' S	0°	0° 36' W	130° 31' E	—

From Port Ludlow towards Fremantle

From Port Ludlow towards Fremantle

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	1	4	SW	WNW	1				Light & cloudy.
	2	1	4	"	"	"				W.L. swell.
	3	2	-	"	"	"				
	4	2	-	"	"	"				
	5	2	-	"	"	"				
	6	2	-	"	"	"				
	7	2	4	"	"	"				Light
	8	2	4	"	"	"				
	9	1	4	"	"	"				
	10	1	7	"	"	"				
	11	1	7	"	"	"				
	12	1	4	"	"	"				
A.M.	1	2	4	SW by W	"	"				No change
	2	2	4	"	WNW	"				
	3	2	4	"	"	"				
	4	2	4	"	"	"				
	5	2	4	SW by W	"	"				
	6	2	4	"	"	"				
	7	2	4	"	WNW	"				Light
	8	2	4	"	"	"				
	9	2	4	"	"	"				
	10	2	4	"	"	"				
	11	2	4	"	WNW	"				
	12	2	4	"	"	"				

30.04

119 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
138° W	42'	0° 33' S	25.9'	37° 37' S	—	0°	0° 32' W	129° 59' E	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	2	4	W by S	WNW	1				Light & cloudy.
	2	2	4	"	"	"				W.L. swell.
	3	2	4	"	"	"				
	4	2	4	"	"	"				
	5	2	4	"	"	"				
	6	2	4	"	"	"				
	7	2	4	SW by W	WNW	"				Light variable winds
	8	2	4	"	"	"				calm & showery.
	9	0	4	Calm	Calm	"				
	10	0	4	"	"	"				
	11	2	4	WNW	West	1				
	12	0	4	Calm	Calm	"				
A.M.	1	1	4	WNW	W by N	1				Light & showery
	2	1	4	"	"	"				
	3	1	4	"	"	"				
	4	1	4	"	"	"				
	5	1	4	"	"	"				
	6	1	4	"	"	"				
	7	3	4	WNW	SW	"				Moderate & showery
	8	3	4	"	"	"				see main log.
	9	4	4	West	SW	1/2				
	10	4	4	"	"	"				
	11	3	4	"	"	"				
	12	3	4	"	"	"				

29.97

120 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
138° W	42'	0° 33' S	25.9'	37° 37' S	—	0°	0° 32' W	129° 59' E	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	4	4	WNW	SW by W	1/2				Light breeze partly cloudy
	2	4	4	"	"	"				W.L. swell.
	3	4	4	"	"	"				
	4	4	4	"	"	"				
	5	4	4	"	"	"				
	6	4	4	"	"	"				
	7	4	4	WNW	WNW	"				Light
	8	4	4	"	"	"				
	9	4	4	"	"	"				
	10	4	4	"	"	"				
	11	4	4	"	"	"				
	12	4	4	"	"	"				
A.M.	1	4	4	WNW	SW by W	"				Light & fair
	2	4	4	"	"	"				
	3	4	4	"	"	"				
	4	4	4	"	"	"				
	5	4	4	WNW	SW	"				
	6	4	4	"	"	"				Main royal fast
	7	4	4	"	"	"				Light & squally
	8	4	4	"	"	"				
	9	4	4	WNW	"	"				
	10	4	4	"	"	"				
	11	4	4	"	"	"				
	12	4	4	"	"	"				

30.10

121 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
138° W	42'	0° 33' S	25.9'	37° 37' S	—	0°	0° 32' W	129° 59' E	—

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
P.M.	1	4	4	WNW	SW by W	1/2				Light breeze partly cloudy
	2	4	4	"	"	"				W.L. swell.
	3	4	4	"	"	"				
	4	4	4	"	"	"				
	5	4	4	"	"	"				Light breeze.
	6	4	4	"	"	"				
	7	4	4	"	"	"				
	8	4	4	"	"	"				
	9	4	4	"	"	"				Calm & cloudy.
	10	4	4	"	"	"				
	11	4	4	"	"	"				
	12	4	4	"	"	"				
A.M.	1	4	4	"	"	"				Light
	2	4	4	"	"	"				
	3	4	4	"	"	"				
	4	4	4	"	"	"				
	5	4	4	SW by W	W by N	1/2				very light air
	6	4	4	"	"	"				cloudy weather.
	7	4	4	"	"	"				
	8	4	4	"	"	"				
	9	4	4	SW	WNW	"				
	10	4	4	"	"	"				
	11	4	4	"	"	"				
	12	4	4	"	"	"				

30.10

122 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
138° W	42'	0° 33' S	25.9'	37° 37' S	—	0°	0° 32' W	129° 59' E	—

From Port Ludlow towards Fremantle

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	2	1	W 1/2 W	W 1/2 W	1/2				High & cloudy.
	2	2	1	"	"	"				moderate sea.
	3	2	1	"	"	"				
	4	2	1	"	"	"				
	5	2	1	"	"	"				
	6	2	1	"	"	"				
	7	2	1	W 1/2 S	W 1/2 S	"				
	8	3	1	"	"	"				Fresh & fair
	9	4	1	"	"	"				
	10	5	1	"	"	"				
	11	6	1	"	"	"				
	12	6	1	"	"	"				
A.M.	1	6	1	"	N 1/2 W	"				
	2	6	1	"	"	"				
	3	6	1	"	"	"				showed fl. jib, spanker
	4	6	1	"	"	"				on t. m. staysail & mainmast
	5	6	1	"	"	"				
	6	6	1	"	"	"				
	7	5	1	"	"	"				
	8	5	1	"	"	"				set on t. m. staysail, spanker
	9	4	1	"	"	"				& mainmast
	10	3	1	"	W 1/2 S	"				moderating & hazy.
	11	2	1	"	"	"				
	12	2	1	"	"	"			29.85	123 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 64° W	95'	0° 42' S	85.4'	36° 55' S	36° 54' S	2° W	1° 47' W	125° 59' E	124° 57' E

	H.	K.	1/2 K.	COURSES.	WINDS.	LEEWAY.	TEMP. AIR.	TEMP. WATER.	BAROM.	REMARKS.
A.M.	1	1	1	S 10° E	W 1/2 W	1/2				Moderate & cloudy.
	2	1	1	"	"	"				moderate sea
	3	1	1	"	"	"				
	4	1	1	"	"	"				tacked ship
	5	1	1	N 1/2 W	W 1/2 W	"				
	6	1	1	"	"	"				
	7	1	1	"	"	"				Fresh & squally.
	8	1	1	"	"	"				
	9	1	1	"	"	"				
	10	1	1	"	"	"				main sail fast
	11	1	1	"	"	"				
	12	1	1	"	"	"				
A.M.	1	1	1	W 1/2 W	S 1/2 W	1				Strong & squally
	2	1	1	"	"	"				
	3	1	1	"	"	"				showed gallant sails, on t. m. staysail
	4	1	1	"	"	"				& jib.
	5	1	1	W 1/2 S	S 1/2 W	1				
	6	1	1	"	"	"				
	7	1	1	"	"	"				
	8	1	1	"	"	"				
	9	1	1	"	"	1 1/2				
	10	1	1	"	"	"				set on t. m. staysail,
	11	1	1	"	"	"				jib & main sail.
	12	1	1	"	"	"			30.14	124 Days out.

Course.	Distance.	Diff. of Lat.	Departure.	Lat. by D. R.	Lat. by Ob.	Variation.	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 61° W	65'	0° 34' S	56.4'	36° 25' S	36° 24' S	2° W	1° 21' W	123° 55' E	122° 55' E

#4057

AØ245.1.12

