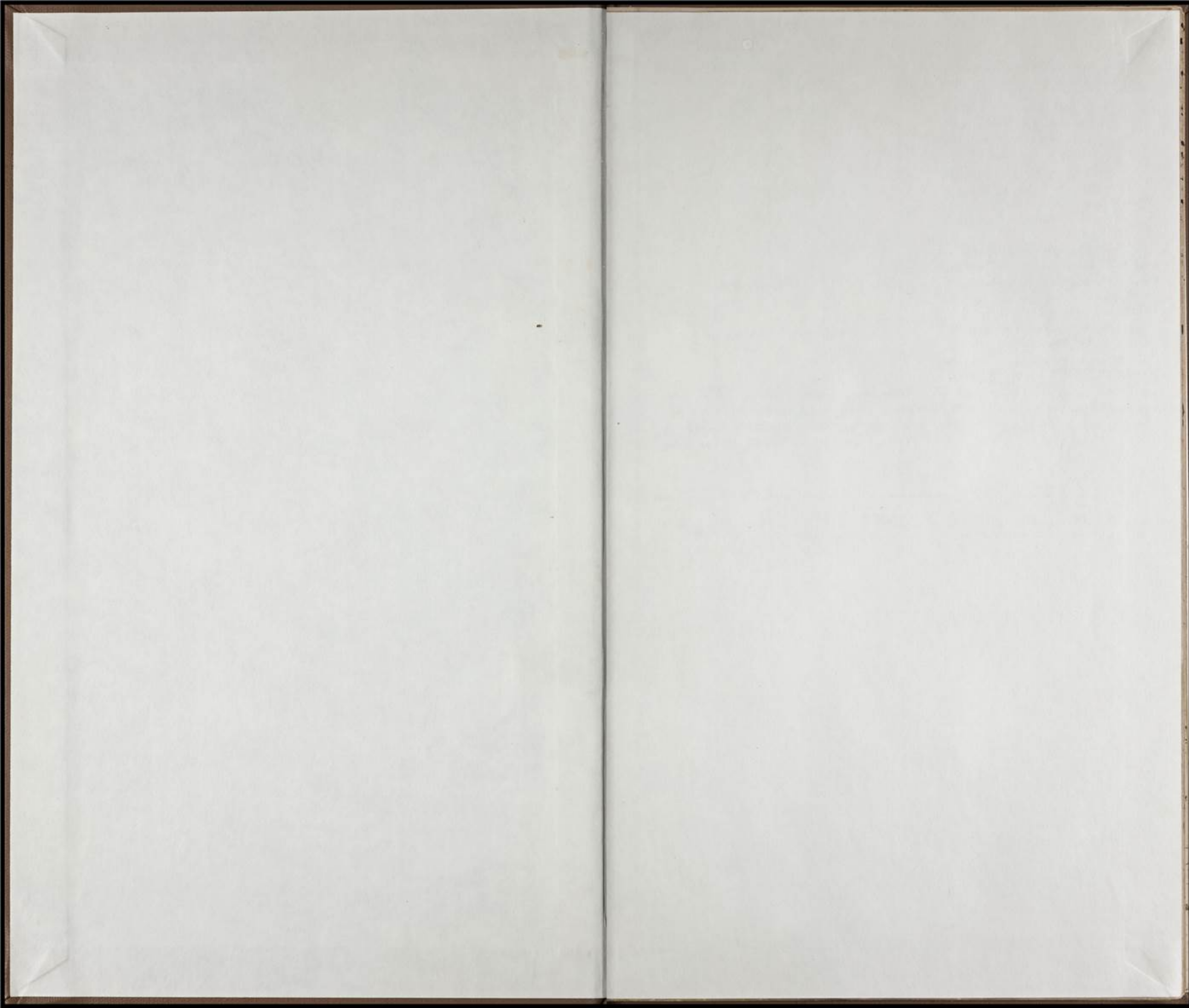


6 a.m.
Noon
6 p.m.
Midnight

VOLUME 14

18 MAR 1902 - 11 SEPT 1904



From

towards

San Francisco

Prince William Sound

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	18	day of Mar	1901
A.M.	1		SW	14-16					Tuesday March 16th 7 am			
	2		"						Tow boat - Rescue one long			
	3		"						side losing ship and a justly			
	4		"						compasses and tumbled to sea			
	5		"						at noon let go tow rope and			
	6		"						made sail and proceeded to			
	7		"						sea ships draft 22 ft 7 inches			
	8		"						at 22 ft 5 inches forward			
	9											
	10								at 8 pm tacked ship to the			
	11								wind and freshening at 9.50 South			
	12		60 miles						Fandons bore S 1/2 E by compass			
P.M.	1								distance about five miles from			
	2								which a departure was taken			
	3		14 x 4 6 miles						morning of 16th wind S 1/2 E blowing			
	4								strong ship under short sail			
	5								shipping waves on board 8 am			
	6								at 8 am fishermen refused to			
	7								proceed to sea said ship was			
	8								loaded 10 American ship and			
	9								run for port			
	10											
	11											
	12											

all the fishermen refused
to go to sea told captain so at
8 am March 19th at 10 am
ship and put back to port

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	52	40	27	37° 2	37° 13	17 1/2	34	123° 34	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From towards

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

From San Francisco towards Prince William Sound

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	Mar 1902
A.M.	1									Tuesday March 18th 3 am Steamer Monarch		
	2									came alongside and made fast hove up		
	3									anchors adjusted compasses and towed to		
	4									sea at 1:30 pm let go hove made sail and		
	5									proceeded to sea light haffling lanternly		
	6									wind hauling gradually towards W		
	7											
	8									8 pm tacked ship to southward 9:50 pm South		
	9									Starablonas Light bore by compass 41° 15'		
	10									about 5 miles distant in lat 37° 42' & Long		
	11									123° 4' from which a departure was taken at		
	12									midnight all light sails fast strong breeze from		
P.M.	1									W & N with heavy sea rising wind still freshening		
	2									and hauling 80 furl for upper top sail wind		
	3									still freshening with heavy sea vessel shipping		
	4									lots of water through the night 7 am on		
	5									March 19th found fore lowermast had		
	6									settled down about 4 inches slackening up		
	7									all fore rigging		
	8											
	9											
	10											
	11											
	12											

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

8 10 15 52 110 27 37° 2 37° 13 17 1/2 34 123 34

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	Mar 1902
A.M.	1									Wednesday March 19 7 am started to		
	2									secure foremast by swiftering rigging		
	3									to weather fisher men all refused		
	4									to work if not returning to port with		
	5									the vessel all hands said ship was		
	6									to deep loaded so the captain come		
	7									to the conclusion to put back		
	8											
	9									The captain had the men to sign there		
	10									names to a written order that they		
	11									refused duty or proceed further on		
	12									voyage or how cargo at 12 am captain		
P.M.	1									headed ship for San Francisco		
	2											
	3									at 2 am South Starablonas light bore		
	4									W & N wore ship to S & N to daylight		
	5									when wore ship again and headed for		
	6									port about 1 pm taken in tow by the		
	7									Monarch		
	8											
	9											
	10											
	11											
	12											

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

2 days at sea

From *Harbor* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A.M.	1								Thursday March 20th Made all possible sail at day break		
	2								wind moderating heavy sea still running from S.W. close		
	3								to light ship at noon about 1 pm taken in tow by tug monarch		
	4								and towed in to port came to an anchor at 4.15 pm 45 fathoms		
	5								of chain to water's edge finishing this day with 4 hours and 15		
	6								minutes in order to start harbor by		
	7								Friday		
	8								March 21st 7 am tow boat come alongside and made fast		
	9								hove up anchor and docked ship at freshet St wharf 7 men		
	10								kept on working on board through day and 2 night watchmen		
	11										
	12								Saturday March 22nd same men employed for night and day		
P.M.	1								work 8.30 am tow boat made fast alongside east of from dock		
	2								and towed to Mission Rock men variously employed		
	3								through day		
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A.M.	1								Harbor of San Francisco the 25 of April		
	2								making		
	3								Leaving at mission Rock detaching coal		
	4								bay straddling two of San Francisco sp.		
	5								April 1st leaving mission Rock for junction street		
	6								leaving along red the Bk Hematite. Detaching coal.		
	7								April 4th 3 pm leaving junction at Docking it		
	8								little meal Dackk Tremming coal getting ready		
	9								for loading large April 4th two more men		
	10								putt on for shipping two Dackk an clanging ship		
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

From *Harbor* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A.M.	1								April 16th att 8 am leaving little meal Dackk		
	2								towing out in the stream Drappet the shore		
	3								of Union street varf 45 fathoms of Theane war pay		
	4								out paying fare more thanamen a few name		
	5								on board During the Day the ships know		
	6								getting ready for going to sea bekuring the		
	7								ships large on Dackk table		
	8										
	9										
	10								April the 17th		
	11										
	12								Am Still bekuring Baten on Dackk Load a few		
P.M.	1								thanamen lounge shore bute still gathe the folk		
	2								a counte During the Day att 11 am the Thogg		
	3								both harbor War bekure towing out at 1 pm		
	4								Lattaga the harbor Sails var latter During the time		
	5								towing out at 4 pm farrelone Bare W Dury		
	6								12 miles Wind W Hare ships Gauge S S W Anharre		
	7								bekure on the farrelhad		
	8										
	9										
	10										
	11								From San Francisco to Bristol bay		
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1902
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

April 18th

From

towards

Bank Entrep San Francisco to Bristol Bay

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 18	day of April 1902
A.M.	1								April 19th 1902	
	2								Whedon clear light ves	
	3								Olis wall Rigger	
	4	12	S 13° E WNW 1/2						Crash hold putting on	
	5								Shifting gear was was	
	6								Varasary Legth	
	7								Sails was at Rered on	
	8	13	S 65° W NW 1/2						During the 24 on	
	9									
	10									
	11									
	12	27	S 54° W WNW 1/2							
P.M.	1									
	2									
	3									
	4	29	S 48° W WNW 1/2							
	5									
	6									
	7									
	8	29	S 54° W WNW 1/2							
	9									
	10									
	11									
	12	23	S 31° W WNW 1/2							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 49° W	146	1° 38'	110	34 41 N	34 27	20 E	1° 15' W	125° 15' W	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 19	day of April 1902
A.M.	1	22	South S W x W 1/2						Light wind till	
	2								4 a m S W x W and	
	3								Rain all 5 a m all	
	4	22	South S W x W 1/2						the small sails was	
	5								blow up during	
	6								Skaly all 5 30 am	
	7								all sails was with	
	8	17	N by E S W x W 1/2						light ob is wall on	
	9								board	
	10									
	11									
	12	25	South W S W 1/2							
P.M.	1									
	2									
	3									
	4	25	S by E S W x W 1/2							
	5									
	6									
	7									
	8	27	S x W x W NW x N 1/2							
	9									
	10									
	11									
	12	33	S 9° W WNW 1/2							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 77° W	109 miles	6 106	24	34 33	33 45	19	5 00	126° 13' W	

April 19th

April 20th

From

towards

Bank Entrep San Francisco to Bristol Bay

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 20	day of April 1902
A.M.	1									
	2									
	3									
	4	33	S W x W WNW 1/2						Cloud up gale and	
	5								Skaly and Rain	
	6									
	7									
	8	26	S W x S WNW 1/2						Skaly with Rain	
	9									
	10									
	11									
	12	25	S W NW 1/2						Clearing up on mod	
P.M.	1								Small sails was with	
	2									
	3									
	4	29	S W WNW 1/2						Clear and moderating	
	5									
	6									
	7									
	8	24	S W WNW 1/2						anchors was Liked	
	9								light trake and 2 am	
	10								ships Ditch land in	
	11								on the Watch	
	12	19	W x S NNW 1/2						Clear light Wind	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 67° W	149 miles	5° 58'	128	31° 35' N	31° 04'	19	2° 35' W	125° 35' W	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 21	day of April 1902
A.M.	1									
	2									
	3									
	4	12	S W WNW 1/2						from April 21 for	
	5								April 22 light	
	6								wind Baxen from	
	7								all Direction man	
	8	9	W by S NNW 1/2						on Ditch standing	
	9								by the Baxen light	
	10								was sight a man	
	11								on the Lakanti	
	12	00	W by N NNW 1/2							
P.M.	1									
	2									
	3									
	4	00	W by N S 1/2						light wind was	
	5								Baxen during the	
	6								with 2 man on	
	7								Dack standing	
	8	2	W by N S 1/2						to ships Ditch	
	9								haling yards or	
	10								any other thing	
	11								was was Komaba	
	12								Toward morning	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 87° W	20	0	5 20	51° 31' N	51° 00'	19 E	24	128° 54'	

April 22 1902

From *San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	22 day of April 1902
A.M.	1								all 1 Pm lakened	
	2								matas water on	
	3								Jack Band the	
	4	18	WNWSSW	1/2					measin the gallin	
	5								stay sail on an on	
	6								2uth shept the sea	
	7								length man on the	
	8	23	NW & W WxS	1/2					lalkanti	
	9									
	10									
	11									
	12	27	NW SW	1/2					cloud up at the	
P.M.	1								length sail on the	
	2								gallin sail an	
	3								made forth at 11	
	4	21	Nx E WNW	1/2					Pom at a back mes	
	5								ging pan around on	
	6								the heel on the Port	
	7								lack igen Ruffing	
	8	24	Nx E WNW	1/2					spanker haddeng	
	9								Nx E	
	10								Strang Bree hadleng	
	11								N by E ship Dutu a	
	12	25	Nx E WNW	1/2					taredal to in	
									avery matts	

Tagwell 23

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 84 E	113 mi	112	10	0	83 27 N 33 02	20	12	129 11 W 129 59	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	23 day of April 1902
A.M.	1	6	1/2						Strong Wind from	
	2	6	00	Nx E WNW	1/2				WNW Ruffe spanker	
	3	6	1/3						Tapporabr. Rand on	
	4	25	Nx E WNW	1/2					Whiper Dutu atandad	
	5								to	
	6								lighter shept a man	
	7								on the lalk anti mow	
	8	27	00	Nx E WNW	1/2				the gallin sail fload	
	9								up an fload it is	
	10								blowing strong	
	11									
	12	21	00	Nx E WNW	1/2				at 11 30 Pm ven habing	
P.M.	1								ghaid ware ship	
	2								Putt bar on the starbar	
	3								lack haddeng Wx S	
	4	22	00	Wx S NNW	1/2				Wind moderating	
	5								terand mawning	
	6								at 8 am ship hadleng	
	7								lues Wx N main and	
	8	14	00	Wx S NNW	1/2				for the gallin sail was	
	9								lath it is blowing	
	10								strong the man	
	11								tanding to ship	
	12	18	00	W 1/2 N NNW	1/2				Macacari Dutu on	
									Jack	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 10 W	64 mi	67.0	11	54	34	08	20 E	14 W	129 31

From *San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24 day of April 1902
A.M.	1								at 3 Pm handed	
	2								main sail and full	
	3								spanker Wind light	
	4	21	Wx N N & W	1/2					on shawl have had	
	5								no bonding	
	6									
	7								6 Pm handed red	
	8	29	Wx N N & W	1/2					light and lock out	
	9								tandit to pump	
	10								rounded	
	11									
	12	26	WNW, N	1/2					light Wind light	
P.M.	1								and lalk anti star	
	2								ter	
	3									
	4	18	WNW N	1/2					yam handed the	
	5								fare Rayl dan gub	
	6								mes gall topped and	
	7								mes the gallin star	
	8	23	Wx N & N N	1/2					trail	
	9									
	10								Strang Bree with	
	11								akhar Flare on	
	12	28	Wx N N	1/2					ship Dutu struck	
									atandit to	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 57 W	145 mi	79	1	121	3	35 59 N 35	16	20 E 2 28	132 53 132 53 45

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	25 day of April 1902
A.M.	1								all 1 Pm spake to	
	2								spanker larkina on	
	3								Lat 35 59 N and	
	4	20	Wx N N	1/2					Long 132 53 W and	
	5								uplth was banded	
	6								from Panpedra app	
	7								the Kanat 15 Dair	
	8	26	Wx N N	1/2					anti	
	9								Pumps and	
	10								Lid light and a	
	11								man on the lalk anti	
	12	22	Wx N & N NNW	1/2					Struck atandit too	
P.M.	1									
	2								length wind	
	3								Boring from plain	
	4	21	W 1/2 N NNW	1/2					ship shading Wx N	
	5									
	6									
	7								ligh wind and	
	8	23	WNW N	1/2					cloud with few dogs	
	9								argum breaking	
	10								of to Wx S yards	
	11								and ships Dutu	
	12	26	Wx S NNW	1/2					atandit to	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 67 W	135 mi	52	15	124	4	36 45	20 E	2 34	135 27 W

April 25

April 26
From *Bark Enterprise San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 26	day of April 1902
A.M.	1								light wind clear with	
	2								haze on the main on	
	3								Dutch making mats	
	4	18	W x S	NW	1/2 P				and lowering of the	
	5								fore lugsails	
	6									
	7								at 6 P.M. light breeze	
	8	11	W x S	NW	1/2 P				and a man on the	
	9								deckhouse on also	
	10								Pupper struck	
	11								attached to	
	12	5	S x W	WSW	1/2 P					
P.M.	1								at 1 am a light	
	2								wind sprang up	
	3								WSW ship hadding	
	4	10	N x W	WSW	1/2 P				SSW tack ship on	
	5								putt har on the part	
	6								tack hadding by compass	
	7								N by W	
	8	22	N by W	WSW	1/2 P				8 am wind gradually	
	9								increasing ship hadding	
	10								WSW everything sail	
	11								set a Barkentine down	
	12	28	N x W	WSW	1/2 P				to toward 187° 16' 150 Y	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
167 W	116	51	04	37 36	37 33	22	22 W	135 40	136 W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 27	day of April 1902
A.M.	1								at 1 P.M. strong wind	
	2								blown off the log	
	3								sails it is blowing	
	4	33	N x W	SW	1 P				strong and clear	
	5									
	6								at 4 P.M. Dutch has under	
	7								lure for ash for sail	
	8	17	W x W	S x W	1 P				and next day	
	9								morning top mast staves	
	10								blowing a great rain	
	11								SSW with heavy rain	
	12	9	N	WSW	1 P				of rain	
P.M.	1								at 9 P.M. tack in the	
	2								and mizen star sail it is	
	3								blowing a gal ship hadd	
	4	6	N	WSW	1/2 P				tu for sail <i>Ranvan</i>	
	5								at 5 am in the morning	
	6								var ship hadd 8 x 1/2 W	
	7								at 5:30 am 2000 of new	
	8	5	S x W	WSW	1/2 P				burntens for the for sail	
	9								and sailing at	
	10								Wind moderating main	
	11								upper top sail sail wind	
	12	16	S x W	WSW	1 P				moderating gradually	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 73 W	39	37	21	23 38	13 39	38 W	23 E	14 136 41	138 58 W

April 27

April 28
From *Bark Enterprise San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 28	day of April 1902
A.M.	1								Light wind handed the	
	2								for upper top sail main	
	3								de gallen sail a farmster	
	4	16	S	W	1/2 P				Barkentine rated in the	
	5								whaler beams 39° 11' 38 W	
	6								on the part tack	
	7								at 5 P.M. sail the yard	
	8	11	N x W	WSW	1/2 P				gallen sail tackt ship	
	9								ship hadding N x W light	
	10								ship pumps and lockers	
	11								struck at stand at toe	
	12	10	N x W	WSW	1/2 P					
P.M.	1								light wind steady and	
	2								blown light and	
	3								lockers struck on	
	4	19	N x W	WSW	1/2 P				stand at toe	
	5								at 6 am varning tack	
	6								and scrubbing paint	
	7								light ring and and	
	8	14	N x W	WSW	1/2 P				blow	
	9								light wind blawd horizon	
	10								man on Dutch Doring	
	11								passage Dubly on Dack	
	12	14	N 1/2 E	W	1/2 P				War ship at 4:45 hadding	
									8:50 W on starboard tack	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 2 E	49	49	20	1 38	27	38 W	22	2 136 43	137 26 W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 29	day of April 1902
A.M.	1								at 1 o'clock P.M. sail	
	2								the sails and the mizen	
	3								the galleon star sail wind	
	4	18	S x W	Wart	1/2 P				light man on Dutch Doring	
	5								ships narasari Dutch	
	6									
	7								at 8:30 P.M. tackt	
	8	14	S x W	Wart	1/2 P				ship hadding by	
	9								compass 11 E light	
	10								Wind and blawd	
	11									
	12	7	N x E	WSW	1/2 P				light wind and	
P.M.	1								blawd horizon	
	2									
	3									
	4	17	N by E	WSW	1/2 P				at 5 am tackt ship	
	5								putt har on the star	
	6								board tack hadding	
	7								by compass 11 W	
	8	9	S x W	WSW	1/2				at 8 am painting	
	9								white around the	
	10								poor ships Dutch	
	11								at stand at toe	
	12	3	WSW	WSW	1/2 P					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 50 W	13	11	14	4 38	44	22 E	14 W	137 02 W	

April 29

From *April 30* towards *Bristol Bay*
Bark *Entepe* San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	30	day of April 1902
A.M.	1								at 1 P.m. hauld app		
	2								the claws of the main		
	3								and the farsail hauled		
	4	6	W x V	N by W 1/2 P					and a hove small force		
	5								light wind and klandish		
	6								ship staying lower		
	7								pumpers side light and		
	8	10	W x V	N	1/2 P				lookout struck at anchor		
	9										
	10										
	11										
	12	3	W x V	N	1/2 P				light Wind and		
P.M.	1								cloud. Wind halting		
	2								from and to and		
	3								a hove Nord waste and		
	4	3	WSW	NNW 1/2 P					bonning		
	5										
	6								light Wind everything		
	7								sail shoring down Dacks		
	8	7	W x S	NNW 1/2 P					and tanding in ships		
	9								Duties at 8 P.m. started		
	10								Painting around the		
	11								quarters of the Pump Dack		
	12	9	W x S	NNW 1/2 P					ship is staying lower		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 37 W	7 miles	5.64	.038	16.38	16.19	22	6	137.8	138.30

From *May 1st* towards *Bristol Bay*
Bark *Entepe* San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	1st	day of May 1902
A.M.	1								at 1 P.m. still painting		
	2								around the after Lock		
	3								Reals and Bitters fine		
	4	10	W x V	NE 1/2 P					hader and far wind		
	5								Wind halting around to		
	6								NE		
	7								at 6 P.m. light pumpers		
	8	7	W x V	NE 1/2 P					and lookout a tender to		
	9										
	10								light Wind clear		
	11								haze as yards squared		
	12	15	W x V	NE 1/2 P					in about 4 points of		
P.M.	1										
	2								light Wind and klandish		
	3								Wind in from the port		
	4	24	W x V	NE 1/2 P					quarter every strath		
	5								of Kanway is Drowing		
	6								ahadd light and lookout		
	7								at anchor to		
	8	27	W x V	NE 1/2 P							
	9								strong Wind and		
	10								cloud. Wind in from the		
	11								starboard quarter		
	12	35	W x V	NE 1/2 P					ships Duties at anchor to		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 39 W	12 miles	4.4	.176	1.39	1.30	39	22	140.8	140.30

May 1st

From *May 2nd* towards *Bristol Bay*
Bark *Entepe* San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	2	day of May 1902
A.M.	1								at 3 P.m. hold down		
	2								the messin top mast		
	3								stay sail and Ript		
	4	40	W x V	ENE 1/2 P					the sparker it is		
	5								Blowing strong from		
	6								NE		
	7										
	8	39	W x V	ENE 1/2 P					at 6 P.m. took in the		
	9								Rayls and plain Dab		
	10								at 8 P.m. took in the		
	11								sparker hauled the		
	12	41	W x V	ENE 1/2 P					causes W x V it is		
P.M.	1								Blowing strong		
	2								at 12 P.m. took in the		
	3								for the galler sail		
	4	38	W x V	ENE 1/2 P					and the main sail		
	5								it is Blowing strong		
	6								1 am took in the main		
	7								de galler sail Wind		
	8	37	W x V	ENE 1/2 P					in kuring aldetime		
	9										
	10								at 8 am sand 4 man		
	11								op left mending the		
	12	36	W x V	ENE 1/2 P					galler sail with got there		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 51 W	230 miles	22.25	3.53	42.04	41.54	24 E		144.01	

From *May 3rd* towards *Bristol Bay*
Bark *Entepe* San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	3	day of May 1902
A.M.	1								at 1 P.m. sat the		
	2								de galler sail Wind		
	3								is moderating gradually		
	4	34	W x V	NE 1/2 P					at 6 P.m. pumpers at		
	5								at the side light		
	6								and the lookout		
	7								struck at anchor to		
	8	34	W x V	NE 1/2 P					still a strong breeze		
	9								But moderating slowly		
	10										
	11										
	12	31	W x V	NE 1/2 P					still a strong breeze		
P.M.	1								and squall but		
	2								moderating gradually		
	3								Wind halting more to		
	4	26	W x V	NE 1/2 P					the forward yards		
	5								and breeze at anchor to		
	6								tu and the light and		
	7								the lookout		
	8	31	W x V	NE 1/2 P					at 7 am sail the fore		
	9	37							the galler sail on the main		
	10								sail an sparker		
	11								cloud but moderating		
	12	30	W x V	NE 1/2 P					Wind halting to the		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 62 W	180 miles	11.25	1.64	43.22	43.24			147.46	

May 3rd

May 4th
From *San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 4	day of May 1902
A.M.	1								light wind and a	
	2								have small rolling from	
	3								south east ship is	
	4	28	W x S	WNW 2P					hading W by S	
	5								at 6 Pm pumps	
	6								light and the look out	
	7	31	W x S	WNW 2P					streakle at and at	
	8								the	
	9								at 12 Pm Dark and	
	10								clouds harsen light	
	11	30	SW x S	NW 2P					2 goals whet fine rain	
	12								on ship hading	
P.M.	1								W S W by Conyar	
	2								light wind and	
	3								streakle at 5 am hading	
	4	33	W S W	NW 2P					up the far the garsail	
	5								on fold it at 8 am	
	6								ships Duties at and at	
	7								in at 1 Pm started to	
	8	30	W x S	NW 2P					make mats and fix	
	9								of the rope ladder	
	10								for ships us	
	11									
	12	29	W x S	NW 2P						

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 89 W 180 1 1 180 043° 24 24 E 4° 07 W 157° 53

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 5	day of May 1902
A.M.	1								light wind and clouds	
	2								shet fine rain and	
	3								muste at 3 Pm path	
	4	25	W	NW 2P					the far de garsail	
	5								man on Duties Duties	
	6								ships various Duties	
	7								at 6 Pm shept the	
	8	24	W x S	NW 2P					lights saundred the	
	9								pumps and pull a mon	
	10								on the look out	
	11								light wind and muste	
	12	14	W x N	NNE 2P					Wind Barring around	
P.M.	1								from at Point Cold	
	2								the alman at 12 o'clock	
	3								and reported the Duties	
	4	16	W x N	NW 2P					at 8 am man in playd	
	5								on ships Duties Duties	
	6								on the harsen over and	
	7	15	W x N	N 2P					of a getting on the main	
	8								de gallen sail from the	
	9								sailbocker	
	10									
	11									
	12	14	W x N	N 2P						

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 57 W 97 miles 52 81 36 44° 16 25 E 1° 52' 153 45

May 6th

From *San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 6	day of May 1902
A.M.	1								at 1 Pm unbanding	
	2								The main de gallen	
	3								sail and Banding	
	4	8	W x N	WNW 2P					a the bar man on	
	5								Duties Duties ship	
	6								harsen Duties light	
	7								Wind and clouds	
	8	22	W x N	WNW 2P					Obervision had be	
	9								at and at the	
	10								at 6 Pm pumps light	
	11								and locout at and at	
	12	15	W x N	WNW 2P					the light wind and clouds	
P.M.	1								over the thing sail	
	2								light wind and	
	3								streakle whet fine rain	
	4	21	W x S	WNW 2P					at and the hal night	
	5									
	6								at 6 am in the morning	
	7								for phar Dacke pump	
	8	29	W x N	WNW 2P					rigd app whet Dacke	
	9								for and aft men in play	
	10								on ships Duties harsen	
	11								of the after Dacke	
	12	22	W x N	WNW 2P					to Obervision clouds	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 61 128 miles 1° 1' 109' 5' 45' 17 25 E 2° 35' 156 20 158 48

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7	day of May 1902
A.M.	1								at 1 Pm at the light	
	2								Pails sail light Wind	
	3								and 2 goals whet clouds	
	4	25	W x N	WNW 2P					harsen ship hading	
	5								by Comp W x N men in play	
	6								on ships Duties	
	7								light wind Barring	
	8	13	W x N	N 2P					from at point clouds	
	9								and 2 goals harsen	
	10								lights and look out	
	11								streakle at and at	
	12	17	W x N	NW 2P					watch on hand of head	
P.M.	1								of Barring yards	
	2								light wind and clouds	
	3								Wind Barring and	
	4	15	W x N	WNW 2P					hading from at point	
	5								same with a home	
	6								Did small rolling from	
	7								NE men in play am	
	8	10	S x W	WNW 2P					ships Duties harsen	
	9								Obervision had be	
	10								of the after Dacke	
	11								to Obervision clouds	
	12	3	W x N	N 2P						

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 66 W 87 miles 35 77 4 45 52 25 E 1° 53 158 13

From *Bark Eulerpe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	8	day of May 1902
A.M.	1								light Wind and Rain		
	2								at 2 P.m. a light Wind		
	3								sprang off from S.W.		
	4	3	NW S.W	"					breast across the yard		
	5								left about 2 points black		
	6								of the Bakstair		
	7										
	8	4	NW S.	"					at 7 P.m. hauled up the		
	9								main sail hauled down		
	10								the staysails and land		
	11								down the spanker a		
	12	15	NW S.S.E	"					light Wind from aft on		
P.M.	1								SSE sprang off whet		
	2								gradual black lights		
	3								and lookout stand at		
	4	24	NW S.S.E	"					at 4 a.m. a steady Breeze		
	5								and hauled hars on		
	6										
	7										
	8	25	NW S	"					at 8 a.m. Wind backing		
	9								around to WSW Breeze		
	10								off the yard with the		
	11								spanker pull her on		
	12	24	N E WSW 1/2 P						the Win ship heading by		
									compass N E Dunder at anchor		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 5 W	87 miles	1° 21'	7° 0'	47° 13'	47° 02'	27° E	11°	158° 24'	161° 45'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	9	day of May 1902
A.M.	1								light Wind and Rain		
	2								whet fine Droops across		
	3										
	4	13	N E WNW 1/2 P						light wind and skvols		
	5								whet fog and Rain men		
	6								on Dute standing the ship		
	7								various Duties pumps		
	8	20	N WNW 1/2 P						light and lookout at anchor		
	9								the main star sail hold		
	10								Down on gaff top rail		
	11										
	12	26	N E WNW 1/2 P						from 8 to 12 watch hauled		
P.M.	1								off the back murren top		
	2								part staysail and made		
	3								fast skvols Water and		
	4	26	N E E WNW 1/2 P						Rain from 12 to 4 took in		
	5								the floor job and far de		
	6								gallan sail strong Wind		
	7								and skvols from 4 to 8		
	8	26	NNE WNW 1/2 P						left the spanker and		
	9								rotat again strong Wind		
	10								and skvols whet rain		
	11								sat the far de gallan sail		
	12	23	N E E WNW 1/2 P						and staysail Wind backing		
									gradually		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 47 E	131 miles	1° 30'	95° 48'	32° 49'	2°	28° E	2° 23'	156° 01'	

From *Bark Eulerpe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	10	day of May 1902
A.M.	1								at 1 P.m. tackt ship		
	2								put her on starboard		
	3								tackt men employed		
	4	1	SW 1/2 W. V. W	1/2 P					on ship Duties		
	5										
	6								at 5 P.m. hauled the		
	7								gaff top sail Wind backing		
	8	"	calm	"	"				and		
	9								at 6.30 P.m. pumps		
	10								sounded ship the red		
	11								light on put a man		
	12	4	NNW SSW 1/2 P						on the lookout ship		
P.M.	1								Duties struck at anchor		
	2										
	3								at 10 P.m. hauled down the		
	4	9	NW 1/2 W SSW 1/2 P						spanker Calm and small		
	5								rolling		
	6								at 2 a.m. sail the spanker		
	7								breast off the yard with		
	8	21	NW 1/2 W S W 1/2 P						breast from SSW		
	9								at 6 a.m. hauled the		
	10								and staysail Wind backing		
	11								at 10 a.m. skvols from Dunder		
	12	17	NW 1/2 W S W 1/2 P						the spanker Wind backing		
									Calms NW 1/2 W		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 32° W	54 miles	45°	1° 28'	49° 49'	49° 48'	28° E	43°	156° 44'	160° 14'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	11	day of May 1902
A.M.	1								at 1 A.m. Lead the yards		
	2								square Wind caught aft		
	3								gradually increasing		
	4	18	NW 1/2 W S E	"					ships Duties at anchor		
	5								at 6 P.m. pumps light		
	6								and lookout at anchor		
	7								at 12 P.m. Wind backing		
	8	23	NW 1/2 W S E	"					more to the East hauled		
	9								the far rail forward the		
	10								yards light and lookout		
	11								struck at anchor		
	12	33	NW 1/2 W E	"							
P.M.	1								at 4 a.m. Wind backing		
	2								old time at 8 a.m.		
	3								reft the spanker and		
	4	35	NW 1/2 W E N E	"					made at fast shorted		
	5								has Down to the two far		
	6								top sails it is blowing		
	7								hard from NE		
	8	35	NW 1/2 W N E	"							
	9								at 11 a.m. how far the		
	10								far the two top sails		
	11								being very thick with		
	12	30	NW 1/2 W N E	"					rain it is blowing hard		
									lookout at anchor		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 25° W	174 miles	2° 37'	75° 42'	25°		28° E	1° 56'	158° 40'	

From *Bank Entrep San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 12	day of May 1902
A.M.	1								at 1 P.M. ship head to	
	2								for lanterns it is	
	3								blowing hard from NE	
	4	5	NW ENE 3P						what have rain and fog	
	5								being in lat 54° and long 165°	
	6								of the unmask Pass	
	7								at 4 P.M. Wind gradually	
	8	2	NW ENE 3P						moderating	
	9								at 8 P.M. Wind gradually	
	10								moderating still thick	
	11								and fog and rain light	
	12	3	NNW NE 3P						and look out at stand at 12 P.M.	
P.M.	1								still a strong breeze and	
	2								thick with rain at 3	
	3								am with the spar and	
	4	5	NWxW NNE 3P						mainmast star sail	
	5								and wind blowing around	
	6								to NW at 8 am still a	
	7								strong breeze ship heading	
	8	12	NxS NNW 2P						by compass WSW	
	9								at 10 am Wind moderate	
	10								gradually with the fog still	
	11								a heavy rain coming	
	12	13	SE NW NW 2P						ships Duties at stand at the	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 85° W 29 miles 2° 00' 28' 52' 27' 52' 20' 30° E 00° 46' 159° 26' 165° 46'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 13	day of May 1902
A.M.	1								at 1 P.M. Wind moderating	
	2								with the main and fore	
	3								gallin sails main sails	
	4	11	NxNE NW 2P						and jibs still above	
	5								oval running main up	
	6								on ships Duties at 7 P.M.	
	7								pumps light and look out	
	8	11	N. W. 2P						at stand at 10 P.M.	
	9								at 10 P.M. with the	
	10								herring topmast star sail	
	11								a steady strong breeze	
	12	18	N. W. 2P						light and look out a	
P.M.	1								stand at 12	
	2								at 2 am land app	
	3								the far de gallin sail	
	4	30	NxW W. 2P						are hauld down the main	
	5								top mast star sail a strong	
	6								breeze	
	7								at 4.30 am sighted the	
	8	25	NW WSW 2P						land being unalaska	
	9								islands with over the	
	10								stern of Kanbar bearing	
	11								far end at 12 am	
	12	23	NxNE SSW "						land bar NWxW 20 miles	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 10° E 154 miles 2° 34' N 54° 11' 54' 7' 30 165° 00' 165° 0'

From *Bank Entrep San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 14	day of May 1902
A.M.	1								at 4 P.M. Paint	
	2								Ligalola Island Bar	
	3								SxWxW Des of 6 miles	
	4								ships had NW. main	
	5								upland on ships Duties	
	6								at 8 P.M. Cap Paritchey	
	7								Bar E + N by compass	
	8								ships had NW. Des of	
	9								at 7 miles	
	10									
	11									
	12									
P.M.	1								at 12 P.M. bearing being	
	2								same what light paper on	
	3								Wind from aheads men	
	4								conducting bearing	
	5								at 5 am a light Wind	
	6								from NE Des by	
	7								log 5 miles	
	8								at 8 am Cape E	
	9								Paritchey E by S Des	
	10								by Kalkuliton 15 miles	
	11								at 12 am bearing being	
	12								hauled by log 5 miles ships	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 77° W 19 miles 4' 18' 6' 54' 05' 54' 57' 24' 45' 165° 31'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 15	day of May 1902
A.M.	1								at 4 P.M. light Wind	
	2								from NW Island bearing	
	3								at 6 P.M. light ship stand	
	4	9	WSW NW 1P						ing of sail fore hading	
	5								by compass ENE light	
	6								Wind at 8 P.M. pumps light	
	7								and look out at stand at	
	8	7	ENE NW 1/4						and also ship Duties	
	9									
	10								at 12 P.M. light Wind	
	11								and here lights and	
	12	14	NE NW NW 1/4						look out at stand at 12	
P.M.	1									
	2								at 4 am Wind gradually	
	3								increasing being here	
	4	18	NxNE W. 1/4						and steadily rain light	
	5								was an kept being Day	
	6								light	
	7								at 6 am east the yards	
	8	20	NNE WNW "						of the backstays Wind hading	
	9								mar to the West bearing	
	10								thick what fine rain	
	11								ships Duties at stand at	
	12	14	NNE WNW "							

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 50° E 63 miles 40' 48' 55' 35' 55' 31' 24' 45' 114° 165' 20'

From *Barb Europe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 17	day of May 1902
A.M.	1								at 8 Pm light Wind	
	2								and kland hars on	
	3								man in pland on	
	4	10	NVE W						ships Duties	
	5								at 8 Pm a gradually	
	6								in kraz of Wind for	
	7								Wart pumps light and	
	8	10	N.E. W						a lockout standat tu	
	9									
	10									
	11								at 12 Pm still a light	
	12	16	NE WSW						Wind ship making	
P.M.	1								4 mels a n and light	
	2								and lockout standat tu	
	3									
	4	16	NE W						at 4 am a little more	
	5								breas still thick and	
	6								fog ship making 4	
	7								mels on our light so	
	8	13	NE S.W.						an kept at 8 am still	
	9								fog and a light in air	
	10								at 12 am light Wind	
	11								and fog still a land at tu	
	12	15	NE SW						man in pland on ship	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 67 E	80 mels	31' 2" 8'	55° 51' 38"	56° 22'	24° 45'	2° 8'	163° 12'	162° 40'	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 17	day of May 1902
A.M.	1								at 1 Pm still the	
	2								skoner gambel in lat	
	3								55° 31' N Long 162 42 W	
	4	13	NE SW						at 4 Pm shot to har	
	5								being 31 Day apt from	
	6								gambel light Wind and	
	7								kland man in pland on	
	8	18	NE SW						ships Duties	
	9								light Wind and kland	
	10								Wart pumps light and	
	11								lockout standat tu	
	12	19	NE SW							
P.M.	1								at 12 Pm light Wind	
	2								and rain which fog	
	3								lights and lockout	
	4	20	NE SW						standat tu	
	5								at 4 am Wind gradually	
	6								in krazing still being	
	7								thick and fine rain	
	8	20	NE x E SW							
	9								at 8 am light Wind	
	10								at 12 am still being light	
	11								Wind and clearing app	
	12	15	NE x E SW						Ob standat tu	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 74 E	105 m	50° 29'	100'	7 56 50 N	57° 04'	24° 45'	3° 00'	168° 12'	159° 00'

From *Barb Europe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 18	day of May 1902
A.M.	1								at 1 Pm light Wind	
	2								and kland which	
	3								light rain	
	4	6	N x E S						at 4 Pm still a light	
	5								Wind and kland	
	6								hars on ships Duties	
	7								at and at tu	
	8	4	N. E							
	9									
	10								at 8 Pm nearly calm	
	11									
	12	calm	—	—					at 12 P calm light	
P.M.	1								and lockout standat tu	
	2									
	3								at 4 am calm	
	4	calm	—	—						
	5								at 7 am a light breeze	
	6								from NNE tackt ship	
	7								it putt has on the starboard	
	8	7	W x N NNE						tack hading by compass	
	9								NE x E at 9 am tackt ship	
	10								again hading by compass	
	11								W x S at 12 am fog rating	
	12	11	W x S N x N						Down Wind light ship Duties	
									at and at Ob Ob standat tu	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 43° E	21 miles	15'	14 W	57° 19' 49"	57° 41' 41"	24 45' E	26' W	159° 28' W	158° 39' W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 19	day of May 1902
A.M.	1								at 1 Pm thick fog	
	2								and light Wind fog	
	3								regnat strike standat	
	4	17	NE NW						the tackt ship putt has on	
	5								port tack hading by comp	
	6								N.E ships Duties standat	
	7								tu	
	8	22	N x E x E W N W						at 4 Pm under the the	
	9								anchors boxt Dome over	
	10								the reals whipp the	
	11								stars ploggs overathing	
	12	11	N x E S S E						radly for fog pump	
P.M.	1								light and lockout standat	
	2								tu at 10 Pm a light breeze	
	3								from S S E ship styreny	
	4	2.	S E S W						lower at 12 Pm putt has	
	5								on the Wind breast the	
	6								main yards back and	
	7								lock sounding fany	
	8	6.	S E x S S W						20 fathoms or over could	
	9								full opandy am rounded	
	10								21 fathoms at 7 am round	
	11								20 fathoms sgward of being	
	12	19	N x W S W						fog the holnigh Ob standat	

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	5.4 mels	40"	34° 7'	57° 59'	58° 00'	26° 45'	10 58'	158 23'	

From towards

From towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
L.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

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.

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS	day of	190
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

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.

From *San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 20 day of May 1902
A.M. 1									at 1 Pm thick fog
2									and a light breeze
3									giding along tracking
4									saunders were 5
5									minutes fog began
6									also kept going north
7									in fold on Dack's story
8									an shorting sails
9									at 430 Pm Dapt the
10									anchor being by Kallukie
11									of Cape Constantine 45
12									fathoms of then for part
P.M. 1									the winter
2									
3									May 21st 5 am in
4									the morning steamer
5									President came anti
6									order have app the anchor
7									Bordered the harbor and
8									made fast towing in
9									toward Cape 11th a
10									few miles Dapt the
11									anchor again 45 fathoms
12									of then for part the winter

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

in Port of Kurgak

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 22 day of May 1902
A.M. 1									May the 22nd 830
2									in morning steamer
3									President came along
4									side order half app the
5									anchor have app bordered
6									the harbor and made fast
7									board in the Clark
8									Kanely Dapt the part
9									anchor 45 fathoms in
10									than var paid out
11									for part the winter at
12									330 Pm. in the after
P.M. 1									noon at 7 o'clock Steamer
2									President came along
3									side again order to
4									more ship paid out
5									60 fathoms on the anchor
6									anchor Dapt the anchor
7									paid out 45
8									fathoms in an anchor
9									strain men up board
10									unlashing Dack's
11									and getting app large
12									gear already for ash

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

in Port of Kurgak

From *Kusagak* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 22 day of August 2
A.M. 1									at 2 Pm Bordered the
2									harbor have app the
3									harbor on proceeded
4									towing out being
5									Claude an Rain
6									for an aft sails var
7									Datt at 4 Pm Datt
8									the goods sails at
9	9		SEXE SSW	1/2					630 Pm lat the
10									harbor Datt the for sail
11									and for de galler Datt
12	24		SEXS SW	1/2					hup Dapt 22 ft 6 in
P.M. 1									left an 22 ft 3 in for sail
2									at 7 Pm hup hading S-E
3									bag 7 fathoms paid on the
4	7		SEXS SW	1/2					Wind Pump Light and de
5									Lockout streaker a
6									tandate 14 at 1:30
7									am tackit hup but har
8									on the Port tack hading
9									by Kanely SEXS at 8pm
10									hup Datt hup Datt
11									led hup for lat top sails
12	18		SW SW						this blowing an Rain

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 2° 42' E 13 miles 42' 65' 1' E 17° 9' 57' 14' N 2° 44' E 2' E 158' 38' W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 23 day of August 2
A.M. 1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
P.M. 1									
2									
3									
4	3		SW NW	1/2					at 2 Pm a strong
5									wind an a haul on
6									ronningship Kaut
7									hauld for tar top sail
8									
9									
10									
11									
12									
P.M. 1									
2									
3									
4									
5									
6									
7									
8	12		SW NW	1/2					at 7:30 Pump hole
9									light on lat Kan
10									at stand to still a
11									strong wind an a haul
12									on a haul on
P.M. 1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12	13		SW NW	1/2					at 1 Pm a strong

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 66° W 87 miles 31' 7' 79' 01' 57' 12' 41' 46' 45' 46' 26' 45' 2° 40' W 160 58' 160 44' W

From *Barb. Europe* towards *Nuagake* *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 24 day of August 1902
A.M.	1								at 12 am still a
	2								have small southerly
	3								and a strong breeze
	4	14	SW	NW 1/2					at 4 am sail the fore
	5								sail main upper top
	6								sail and the jib
	7								man on both in place
	8	18	SW 1/2 W	NW 1/2					on ship's deck at 8 am
	9								got the mainsail on
	10								the main and fore sail
	11								and a light sparker
	12	28	SW 1/2 S 1/2 W	NW 1/2					man in place on ship's
P.M.	1								at 4 pm still a strong
	2								breeze and a have small
	3								Running ships leaving
	4	29	SW 1/2 S 1/2 W	NW 1/2					Kompan S.W. by S on the
	5								wind at 7 30 pm
	6								put up lights at anchor
	7								and look out at 8 pm
	8	28	SW x S	NW 1/2					reached sea shore bearing
	9								by Kalkulation Port moly
	10								about 50 miles off
	11								at 12 pm still a light breeze
	12	22	SW	NW 1/2					

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	104	50° 5'	91' 2"	55° 55'	55° 34'	24° 45'	2° 48' W	163 41	163 10

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 25 day of August 1902
A.M.	1								at 4 am sail the fore
	2								an full sparker wind
	3								light Kalkulation Port
	4	14	SW	NW 1/2					S.E. x S by Kompan ships
	5								had S.W.
	6								at 8 am still a light
	7								Wind
	8								
	9	8	SW	NW 1/2					at 12 am Wind
	10								gradual increasing
	11								haling more to the
	12	5	SW x W	N					haling bar up two
P.M.	1								S.S.W. at 4 pm look
	2								in the light sails
	3								and left the sparker
	4	13	S.S.W.	E					at 8 pm tack in the
	5								for and made gally
	6								sails and far and near
	7								upper top sail jib
	8	32	S x W	E					main top mast stay
	9								out and messen top
	10								most mast stay
	11								it is blowing hard
	12	21	S	SE 1/2 E					and Kalkulation Port

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 43° W	104	47° 05'	44' 2"	55° 08'	55° 02'	24° 45'	1° 17' W	164 58	

From *Barb. Europe* towards *Nuagake* *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 26 day of August 1902
A.M.	1								at 1 am found the
	2								forecast list is blowing
	3								hard from E.S.E.
	4	10	N x E	SE 1/2 E					at 4 am bare ship
	5								again put bar on the
	6								Port tack haling
	7								Kompan S.S.W. at
	8	1	N x N	E					8 am sail of the top
	9								sails at 10 am held
	10								a ship too windward
	11								at 11 30 am fogging
	12	11	SSW	S.E.					Down obs. at anchor
P.M.	1								at 12 am blowing of the
	2								Cap. Ensign about 34
	3								miles
	4	19	SW x S	SE 1/2 E					at 4 pm Wind getting
	5								light more inland
	6								on ships Deck
	7								
	8	3	SW x S	SE 1/2 E					at 1 30 am ship
	9								has on the port tack
	10								at 12 am tack ship
	11								haling by Kompan S.E. x S.E.
	12	9	SE x SE	WSW					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S E	109	41° 54'	80 00 E	54 21 N		24° 45'	00 00 E	164 52	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 27 day of August 1902
A.M.	1								at 4 am Takt ship
	2								haling by Kompan
	3								SSE
	4	17	WVW	S.W.					at 8 30 am sail the
	5								spoke gally sail being
	6								fogged a man on the
	7								look out on the fog
	8	26	SSE	SW					signal at anchor
	9								at 9 30 am fog
	10								lighted up being a
	11	32	E 1/2 N	S.W.					aboard of anchor
P.M.	1								pass guard the pass
	2								ship making land
	3								thru the Pass but the
	4	24	ESE	SSW					main sail on far
	5								at 12 am a light breeze
	6								and then several
	7								waves set at a time
	8	14	SE x E	SW					at 4 pm still a light
	9								breeze at 6 pm again
	10								land and bar S.W. x W
	11								at 12 pm fog 23 at 12 pm
	12	29	SE x E	S.W.					light breeze ship

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 70° E	104	35° 5'	97 3	53 52	53 58	24° 45'	1° 17' W	162 12	

towards

Temp. Water	BAROM.	REMARKS 28 day of August 1902
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R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in	Lon. by C.
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ir	Temp. Water	Barom.	REMARKS 99 day of August 1902
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R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by C.
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From

K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air T
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Course	Distance	Diff. of Lat.	Departure	Lat. by D. R.
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K	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	T
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Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.
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From *Barka Cutup Kiragake* towards *Sanjane sea*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902
A.M.	1								at 1 am taking in the	
	2								staple and main	
	3								sail it is blowing	
	4	21	East	S	1/2				strong white Rain	
	5								at 4 am still blowing	
	6								hard at 8 am taken	
	7								for this year sail	
	8	17	ExS	SSE	1/2				ship is taking water	
	9								along side of main	
	10								it is blowing again	
	11								from SSE	
	12	14	ExS	SSE	1/2				at 3 pm gradually	
P.M.	1								indistinctly that the	
	2								year at main mast	
	3								sail main top mast	
	4	9	ExS	SSW	1/2				stay sail at 4 pm	
	5								Wind is blowing	
	6								take in the the year	
	7								sail main top	
	8	12	SE	SW	2 1/2				sail and main top	
	9								most star sail still	
	10								blowing again ship is	
	11								shipping water from	
	12		ExS	SW	2 1/2				side	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 55 E 87 miles 36 S 4 78 15 47 39 49 21 E 1 55 147 12

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902
A.M.	1								at 12 am Wind is north	
	2								rather sail the year	
	3								sail and the year	
	4	20	ExS	SW	1/2				towards at 3 pm	
	5								that the main sail	
	6								at 5 pm put the	
	7								on the main the year	
	8	23	ExS	SW	1/2				sail and main sail	
	9								sail at 5 pm and	
	10								Band the year the year	
	11								sail and Band on	
	12	21	ExS	SW	1/2				other sail at 8 am	
P.M.	1								Wind and the year	
	2								going down gradually	
	3									
	4	24	ESE	SW	1/2				at 12 am a light breeze	
	5								observing sail	
	6									
	7								at 4 pm still a	
	8	25							light breeze	
	9									
	10								at 7 pm pumps light	
	11								on the main the year	
	12	24	ESE	SW	1/2				for the Wind gradually	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 46 E 145 miles 100 S 4 47 44 47 44 21 E 2 36 140 09 141 17 W

From *Barka Cutup Kiragake* towards *Sanjane sea*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902
A.M.	1								at 1 am taking in the	
	2								staple and main	
	3								sail it is blowing	
	4	18	ExS	SW	1/2				strong white Rain	
	5								at 4 am still blowing	
	6								hard at 8 am taken	
	7								for this year sail	
	8	25	ExS	SW	1/2				ship is taking water	
	9								along side of main	
	10								it is blowing again	
	11								from SSE	
	12	19	ExS	SW	1/2				at 3 pm gradually	
P.M.	1								indistinctly that the	
	2								year at main mast	
	3								sail main top mast	
	4	23	ExS	SW	1/2				stay sail at 4 pm	
	5								Wind is blowing	
	6								take in the the year	
	7								sail main top	
	8	20	ExS	SW	1/2				sail and main top	
	9								most star sail still	
	10								blowing again ship is	
	11								shipping water from	
	12	20	ExS	SW	1/2				side	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 46 E 145 miles 100 S 4 47 44 47 44 21 E 2 36 140 09 141 17 W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902
A.M.	1								at 4 am a light breeze	
	2								ship loading lower	
	3									
	4	26	ExS	SW	1/2				at 6 am an	
	5								light and	
	6								down	
	7									
	8	28	ExS	SW	1/2				at 8 pm Wind gradually	
	9								in blowing main in	
	10								placed on ship's	
	11									
	12	28	ExS	SW	1/2				at 12 am observation	
P.M.	1								aland at	
	2								at 1 pm the year	
	3								the year	
	4	31	ExS	SW	1/2				and the year	
	5									
	6								at 4 pm still a	
	7								light breeze	
	8	26	ExS	SW	1/2				loading	
	9									
	10								at 7 pm handed the	
	11								side light pumps	
	12	25	ExS	SW	1/2				and the year	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 46 E 145 miles 100 S 4 47 44 47 44 21 E 2 36 140 09 141 17 W

From		towards											
H. K.		COURSES		WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902			
A.M.	1								at 4 am still a light				
	2								Brear from SSW ship				
	3								loading lumber ship				
	4	20	ESE	SSW	2				at 5:30 am anchor the				
	5								side light and basket				
	6								Down Dake man replace				
	7	18	ESE	SSW	2				on ship's Dute				
	8												
	9												
	10								at 12 am Ob atand at				
	11								too light wind heading				
	12	11	ESE	SSW	2				by compass ESE				
P.M.	1								man repairing painting				
	2								around the after Dake				
	3												
	4	8	ESE	SSW	—				at 4 Pm Wind				
	5								Dancing out NW				
	6								boat running light				
	7												
	8	2	ESE	SSW	—				at 7 Pm ship the				
	9								side lights Putamari				
	10								on the lakanu and				
	11								also pump at and at				
	12	6	ESE	SSW	—				at 1 Pm lakanu at				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 45° E	53 miles	31° 43' 38" E	7 44 17			16 E	54° E	134 14	133 32

H. K.		COURSES		WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902			
A.M.	1								at 4 am a light Brear				
	2								from WSW Brear				
	3								and yards at and at				
	4	7	ESE	WSW	—				too				
	5								at 8 am still a light				
	6								Brear lakanu started				
	7								top paint around the				
	8	9	ESE	NW	—				the after Dake				
	9												
	10								at 12 am lakanu				
	11								haze on Wind gradually				
	12	12	ESE	NW	—				increasing lakanu				
P.M.	1								Down the lakanu				
	2								at 4 Pm Wind still in				
	3								creasing				
	4	14	ESE	VNW	—				at 7 Pm pump				
	5								light and the lakanu				
	6								at and at too				
	7												
	8	26	ESE	N	—				at 12 Pm a still				
	9								Brear from V light				
	10								and lakanu lakanu				
	11								at and at too				
	12	32	ESE	N	—								

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 57° E	72 miles	52° 13' 42" E	42 50 42 48			16° E	3° 10' E	130 22	129 34

From		towards											
H. K.		COURSES		WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902			
A.M.	1								at 4 Pm Wind				
	2								gradually increasing				
	3								clouds over the gale				
	4	35	ESE	NNE	—				top rail and the lakanu				
	5								haul stay rail				
	6												
	7	2							at 8 am still a				
	8	36	ESE	NNE	—				strong Brear				
	9												
	10								at 12 am still a				
	11								strong Brear Ob				
	12	33	ESE	NNE	—				more than at and at				
P.M.	1								too strong man in place				
	2								on ship's Dute				
	3												
	4	35	ESE	NNE	—				at 4 Pm still a strong				
	5								Brear				
	6								at 7 Pm Wind gradually				
	7								increasing lakanu in the				
	8	38	ESE	NNE	—				fox and main rails				
	9								handed the red light				
	10								and the lakanu pump				
	11								at and at too				
	12	38	ESE	NNE	—				at 12 am still a strong				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 50° E	220 miles	2° 21' 58" E	168 58	39° 56' N	39 35	17 E	30 43' E	126 39	126 13 W

H. K.		COURSES		WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of Sept 1902			
A.M.	1								at 4 Pm still a strong				
	2								Brear blowing from W				
	3								ship's Dute at and at				
	4	35	ESE	N	—				too at 6 Pm started				
	5								for the lakanu paint				
	6								Work at 6:30 Pm				
	7	34	ESE	N	—				handed the lakanu				
	8												
	9												
	10								at 12 am Ob at and at				
	11								Wind gradually decreasing				
	12	35	ESE	NW	—				heading toward VV				
P.M.	1								for Rail was handed				
	2												
	3								at 4 Pm a light Brear				
	4	23	ESE	NW	—								
	5												
	6												
	7								at 8 Pm Wind still				
	8	18	ESE	NW	—				light no light pump				
	9								and the lakanu				
	10								at and at too				
	11												
	12	12	ESE	NW	—				at 12 Pm Wind still				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 50° E	100 miles	64° 31' 76" E	38 31	38 24	17 E	1° 38'	125 01		

From *Batke Europe* *Kunagake* towards *San Francisco*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
A.M.	1									at 4 a.m. the Wind still being light gradually changing to wind S West
	2									
	3	19-		ESE	NW	-				
	4									
	5									
	6									
	7	12		ESE	NW	-				at 8 a.m. Wind being abate the same ship Duties at anchor too
	8									
	9									
	10									
	11	12		ESE	WSW	-				at 12 am Observe the stand at low light
	12									
P.M.	1									Wind and all are passed at 1 P.m.
	2									Roughly out the anchors and sand open the fresh tides and
	3	12		Ex S $\frac{1}{2}$ S	SW	-				heard open forward
	4									
	5									
	6									
	7	11		Ex S $\frac{1}{2}$ S	SW	-				at 4 P.m. Wind gradually increasing
	8									
	9									
	10									
	11									at 8 P.m. lights purges and a strait for about
	12	10		Ex S $\frac{1}{2}$ S	SW	-				stand at low about 12

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 56° E	66	37' S	54' E	37° 47' N		17 E	1° 09' E	123 42	

[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Banku Eukapa* towards *Muragaki* *Lanfranchero*

[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Bark Eutape San Francisco* towards *Brestol Bay*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 13 day of April 1903
A.M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P.M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8	9		SSW	Waste	2				at 30 Pm Barched the Horse of the Thagg Monarth at the mouth of Waste going Dwaekt auto to sea ships Dropt 19 ft 1. ins aft 18 ft 10 ins forant at 3 Pm eat to far and aft sails at 4 Pm rat the 192 sails at 4 30 latga the horses at 8 Pm Tarralau bar NW 1/2 N Dr 20 lights and ships Duties stand
	9									
	10									
	11									
	12	12		SxW	WNW	2				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 21 W	72 miles	1° 7'		23° 43' 30"	36° 22' 21"	E	32'	124° 21' W	128° 21' W

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 14 day of April 1903
A.M.	1									
	2									
	3									
	4	18		SxW	Waste					at 4 Pm shawri Win light ships Duties standat two
	5									
	6									
	7									
	8	25		Sx E	SW					at 6 am Waste Dack and at 10 am Thack ship hading by Kompas Wx
	9									
	10									
	11									at 12 am Ob standat ton at 1 Pm Squard The yard
	12									
P.M.	1									
	2									
	3									
	4	12		WNW	SSW					at 4 Pm Took in the ankhang and Lakund on the vessel had eand Down the Top that
	5									
	6									
	7									
	8	20		WNW	SSW					at 7 o'clock light pump standat two
	9									
	10									
	11									
	12	31		WNW	SSW					at 11 45 took in the gate to port and the Morse on Red star sail

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
V 43 W	164 miles	1° 59'		11° 41' 38"	24° E	2° 20'	126° 08'		

From *Bark Eutape* towards *Brestol Bay*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 15 day of April 1903
A.M.	1									
	2									
	3									
	4	35		WNW	S	2				Wind gradual in kusing
	5									
	6									
	7									
	8	36		WNW	SSE					at 30 am Band a two gallon sail
	9									
	10									
	11									Wind still in kusing Whit Rayn skvals
	12	30		WNW	SSE					
P.M.	1									at am Klandu
	2									
	3									at 3 Pm light wind White a have small kunning
	4									
	5									
	6									at 4 Pm Wind gradually in kusing at 4 Pm pumps light and lak kanti standat tan
	7									
	8									
	9									at 4 Pm Thak in the Morse Rayl for and have the gallon sail strong buis
	10									
	11									
	12									

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
V 42 W	158 miles	1° 44'		11° 40' 05"	39° 30'	24° E	2° 31'	128° 03'	128° 03'

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 16 day of April 1903
A.M.	1									
	2									
	3									
	4									
	5									still a strong breeze from NE
	6									
	7									
	8									man in plaid on ship Duties
	9									
	10									
	11									Observation of land ton
	12									
P.M.	1									
	2									
	3									
	4	23		W by S	WVW	2				at 1 o'clock pump light and lak kanti standat Wind gradually moderating
	5									
	6									
	7									
	8	22		W by S	WVW	2				
	9									
	10									still a strong breeze from NE
	11									
	12	24		W by N	WVW	2				ships Duties standat two

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 19 E	62 miles	58'		20° 4' 38"	38° 12'	24° E	36'	150° 12'	151° 16' W

From		towards								
Bark		Rustat Bay								
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1903
A.M.	1								at 2 am salt the	
	2								main de galle sail	
	3								and the yacht at 5 am	
	4	5	SW	W.N.W	1/2				salt the far de galle	
	5								spanker and the mizen	
	6								topmast and main	
	7								topmast star sails	
	8	25	SW x S	W.N.W	1/2				Wind moderating gradually	
	9									
	10									
	11									
	12	24	WSW	W.N.W	1/2				at noon Observation	
P.M.	1								at anchor	
	2									
	3									
	4	19	SW	W.N.W	1/2				at 4 pm a light breeze	
	5								Wind backing to the	
	6								ward	
	7									
	8	25	SW x S	W.N.W	1/2				at 7 pm pumps log	
	9								on the locant at anchor	
	10									
	11									
	12	22	S x W	W.N.W	1/2				still slight breeze	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 11 E	24 1/2	39'	11' 3"	34° 31'	34° 05'	24° E	15'	131 01	131 28

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1903
A.M.	1								at 1 am took in the	
	2								ails and the upper topsail	
	3								light wind and squally	
	4	3	N x E	W x W	1/2				lights and locant	
	5								at anchor the men	
	6								in place on handling	
	7								ship at 6 pm salt	
	8	16	SW	SW	1/2				the far and main sail	
	9								light breeze from S.W.	
	10								main in place on ships	
	11								Duties	
	12	23	N x W	SW	1/2				at 12 am obs at anchor	
P.M.	1								obs man in place on	
	2								ships Duties at 4 pm	
	3								squally white Rayn	
	4	18	N x W	SW	1/2				at 6 pm took in the	
	5								small sails pumps	
	6								lights and locant	
	7								at anchor the	
	8	16	NW	WSW	1/2					
	9									
	10									
	11									
	12	8	NW	WSW	1/2				at 12 pm squally white Rayn	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 52 W	111	1° 34'	59' 1"	41° 05'	40° 55' 24" E	1° 17' W	132 18	133 29	

From			towards								
	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1903
A.M.	1									at 2 am took in the	
	2									far de galle sail and	
	3									small stay sail and	
	4	31		W x N	S	1/2				gradually increasing	
	5									White Rayn showers	
	6										
	7									at 1130 am Obs at anchor	
	8	32		W x N	S	1/2					
	9										
	10										
	11										
	12	21		NW x W	SW	1/2				at 7 pm have squally	
P.M.	1									White Rayn man in place	
	2									on ship's duties also	
	3									lights and pumps	
	4	28		NW	WSW	1/2				sounded and at anchor	
	5										
	6										
	7										
	8	29		NW x W	WSW	1/2				at 8 pm still squally	
	9									White Rayn	
	10										
	11										
	12	27		NW x W	WSW	1/2					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 25 W	148	2° 14'	61' 3"	42° 51' 25"	43° 41'	25° E	1° 25'	134° 45'	135° 11' 45"

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1903
A.M.	1								at 3 am took in the	
	2								main de galle sail	
	3								main sail at is blowing	
	4	31	W x N	S	1/2				strong and squally	
	5								at 530 am took in the	
	6								far upper top sail and	
	7								the yacht	
	8	21	W x W	SSW	1/2				at 8 am moderating	
	9								at the far upper top	
	10								sail	
	11								at 12 am squally and have	
	12	21	N x W	SSW	1/2				Rayn held down the yacht	
P.M.	1								and the small stay sail	
	2								standing by the top sails	
	3								halparts	
	4	25	W x N	S	1/2				at 430 pm took in	
	5								the far and main	
	6								upper top sail and	
	7								is blowing hard white	
	8	12	W x N	S	1/2				have squally at 7 pm	
	9								lights pumps and the	
	10								locant at anchor	
	11									
	12	15	W x N	S	1					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 26 W	107	1° 36'	45' 44"	44° 44'	44° 19'	25° E	1° 02'	136 54	136 52

From *Europe* towards *Europe* *Bay*

	H.	K.	1/2 K.	COURSES	WINDS	LIKWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1909
A.M.	1									sg. v. late byt. machine	
	2									gradual Wind blowing	
	3									to the Westward	
	4	14		W. N. W.	S. S. W.	1 1/2					
	5										
	6									at 8 am. still getting	
	7									clear and sunny	
	8	22		W. N. W.	S. S. W.	1 1/2					
	9										
	10									to R in the main	
	11									open top and	
	12	22		W. N. W.	S. S. W.	1 1/2				at 12 am. Observed	
										at 12 in	
P.M.	1										
	2										
	3										
	4	15		W. N. W.	S. S. W.	1 1/2				at 4 Pm. still a	
	5									have small running	
	6									from dark water	
	7										
	8	16		W. N. W.	S. S. W.	1 1/2					
	9									at 8 Pm. lights with	
	10									purple and the black	
	11									at 11 in	
	12	11		W. N. W.	S. S. W.	1 1/2				at 12 salt the machine	

Course	Distance	Diff. of Lat.	Departure	Lat. by D R	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 7° W	74 miles	1° 22'	36' W	46° 02'		25° E	12° 00'	137° 23'	41'

[illegible]

A.M.						
1						at 11 am put the
2						foremast topmast and
3						the main sail
4	17	NW	SW	1/2		
5						at 5 am set the
6						main de gubben sail
7						Wind gradually increased
8	17	WNW	SSW	1/2		
9						at 11 am took in the
10						main de gubben sail
11						and the fore topmast
12	23	WS 1/2 S	SSE	1/2		at Rhiney Ashby River
P.M.						and sprake
1						
2						at 1 P.m. took in the
3						main sail main op
4	19	WSW	SSE	1/2		topmast and the fore
5						
6						at 7 P.m. pumps
7						light and the topmast
8	7	W 1/2 S	SSW	1		at 8 P.m. still a storm
9						Bale and sprake
10						
11						
12	9	W	S	1/2		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 76° W	8.9 miles	01° 11'	63' 3"	47° 03'	46° 54'	24° E	1° 51' W	137° 10'	139° 16'

From towards
 Ark Europe San Francisco Bristol Bay

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
M.	1								day of April 1903
	2								
	3								
	4	10	W	S	1/2				at 4 am - set the main upper topsail still sovali Butt moderating gradually
	5								at 8 am a morning sight atandat tu horrean ping fairli clear
									at 8 am a morning sight atandat tu horrean ping fairli clear
									at 9 am set the main de galle and the far upper topsail and the yibb Wind gradually moderating
									at 12 m obs atandat tu also man enplac'd in ships Dutis
									at 3 pm set the far de galle sail
									at 7 pm light pumps and the lakeute atandat tu
									AND THIS IS WHAT HE MEANT --
									at 4 a.m. set the main upper topsail. Still sovali, but moderating gradually.

At 8 a.m. a morning sight extended to, horizon being fairly clear.

Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
47° 58' 22" N	27° E	1° 18' W	140° 54' W	140° 11' W

At 9 a.m. set the main sail, main & sail-

Wind and the fore upper toe nail and the Wind gradually moderating.	Temp. Water. BAROM.	REMARKS 24 day of April 1903
--	---------------------	------------------------------

7	9.	S	WSW	1/2	
8					
9					
10					
11					
12	14	S x E	WSW	1/2	
1					
2					
3					
4	16	NW x V	SSW	1/2	
5					
6					
7					
8	23	NW	SSW	1/2	
9					
10					
11					
12	25	S x W	WSW	1/2	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
V 42 W	37 h 46	27° 6'	24° 1'	48 21'	48 27 28'	27° E	33' W	140 52'	141 34'

From						towards					
Bark Enterprise						San Francisco Bay					
H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of year 1890	
A.M.	1										
	2										
	3										
	4	14	NW	SSW ½	¼						
	5										
	6										
	7										
	8	22	NW	SSW ½	¼						
	9										
	10										
	11										
	12	22	NW	SSW ½	¼						
P.M.	1										
	2										
	3										
	4	15	NW	SW ½	¼						
	5										
	6										
	7										
	8	16	NW ½ S	SW ½	¼						
	9										
	10										
	11										
	12	11	NW ½ S	SW ½	¼						
			Course	Distance	Diff. of Lat.	Departure	Lat.				
			N 7° W	74 miles	1° 20'	36' W	46				
	H.	K.	½K.	COURSES	WINDS	LEEWAY					
A.M.	1										
	2										
	3										
	4	11	NW	SW ½	¼						
	5										
	6										
	7										
	8	17	NW	SSW ½	¼						
	9										
	10										
	11										
	12	23	N ½ S	SSE ½	¼						
P.M.	1										
	2										
	3										
	4	19	N ½ W	SSE ½	¼						
	5										
	6										
	7										
	8	17	N ½ E	SSW ½	¼						
	9										
	10										
	11										
	12	9	N	S	½						
			Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	
			N 76° W	88 miles	1° 01'	65' S	47° 03'	40° 54'	26° E	1° 31' N	

From		towards											
Back		Europe		San Francisco Bay									
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	23	day of year 1903		
M.	1												
	2												
	3												
	4	10	W	S	1/2								
	5												
	6												
	7												
	8	15	WxW	S	1/2								
	9												
	10												
	11												
	12	22	WxW	S	1								
M.	1												
	2												
	3												
	4	28	WxW	SW	1/2								
	5												
	6												
	7												
	8	25	WxW	SW	1/2								
	9												
	10												
	11												
	12	21	WxW	SSW	1/2								
		Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.		
		V 37 W	85 miles	1° 06'	53' W	48° 00'	47° 58'	21' E	1° 18'	140° 34'	140° 19'		
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24	day of year 1903		
M.	1												
	2												
	3												
	4	23	WxW	SSW	1/2								
	5												
	6												
	7												
	8	9	S	WSW	1/2								
	9												
	10												
	11												
	12	14	SxW	WSW	1/2								
P.M.	1												
	2												
	3												
	4	16	NWxW	SSW	1/2								
	5												
	6												
	7												
	8	23	NWxW	SSW	1/2								
	9												
	10												
	11												
	12	25	SxW	WSW	1/2								
		Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.						

From *San Francisco* towards *Baratar Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	25 day of April 1903
A.M.	1								at 1 am a slide Breeze	
	2								gradually increasing	
	3								at 4 am tackt ship	
	4	27	S	WSW	1/2				hading by Kompas NW+V	
	5									
	6									
	7								at 6 30 am rate the	
	8	15	NWxN	WSW	1/2				main Regt Wind gradial	
	9								haling a Raund toward	
	10								SE	
	11									
	12	26	WNW	SSE	1/2				at 12 am Obs atandat	
P.M.	1									
	2									
	3									
	4	24	WxN	SSW	1/2				at 4 Pm light	
	5								Buar But gradialy	
	6								increasing	
	7									
	8	26	WxS	SSE	1/2				at 7 Pm pumps light	
	9								and the lookante	
	10								atandat in	
	11									
	12	29	WxSxS	S	1/2				at 12 Pm Wind gradialy	
									increasing	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 70 W	165	55' 4"	155' 9"	49' 21" 02'		27° E	3° 53'	145° 27'	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	26 day of April 1903
A.M.	1								at 4 am Wind in Kuesy	
	2								gradialy hading toward	
	3								SE	
	4	32	WxSxS	SE	1/2					
	5								at 7 am taken in the	
	6								far de galun ruit and	
	7								the middel stay saft	
	8	31	WxSxS	SE	1/2				at 8 am take in the	
	9								main de galun sail	
	10									
	11									
	12	26	WxSxS	SE	1/2				at 10 am take in the	
P.M.	1								far appur top sail and	
	2								the spunkie it is	
	3								Blowing a strong Breeze	
	4	31	WxSxS	SE	1/2				from SE	
	5									
	6									
	7								at 7 Pm lights pumps	
	8	30	WxSxS	SE	1/2				and the lookante	
	9								atandat in a strong	
	10								Breeze and show great	
	11								Running ship Dute	
	12	27	WxSxS	SE	1/2				atandat in	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 71 W	101 miles	31"	158' 8"	49° 52'		27° E	4° 7'	144° 35'	

From *San Francisco* towards *Baratar Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	27 day of April 1903
A.M.	1								at 12 am Wind in	
	2								hading at 3 am Tack	
	3								in the main sail and	
	4	41	SWxN	WSE	1/2				the far sail it is	
	5								Blowing hard at 5 am	
	6								have the hading by	
	7								Kompas SxW etc	
	8	10	SxW	ESE	1/2				Blowing again from ESE	
	9									
	10								at am sgward the yam	
	11								and runner again	
	12	18	WxN	ESE	1/2				above wall running	
P.M.	1								Being an Konvimpent	
	2								for the Kaler in hand	
	3									
	4	23	WxN	ESE	1/2					
	5									
	6								at 7 3 Pm light and	
	7								pumps and the lookante	
	8	28	WxS	ESE	1/2				atandat in	
	9									
	10								at 12 Pm still a strong	
	11								Breeze But gradialy	
	12	30	WxS	ESE	1/2				hading ling	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 64 W	165 miles 1' 12"	151' 5"	51' 04"	51° 52' 39"	29°	2° 15'	151° 50' W	153° 17' W	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	28 day of April 1903
A.M.	1								at 4 am gradialy	
	2								moderating rate the	
	3								main appur top sail	
	4	30	WxS	ESE	1/2					
	5								at 8 30 am Obs atandat	
	6								by hauran being	
	7								Klander Whit Rayn	
	8	27	WxS	ESE	1/2					
	9								at 12 am meridian	
	10								Obs atandat in aba	
	11								man impland on ship	
	12	30	WxS	ESE	1/2				Dute	
P.M.	1									
	2								at 2 Pm salt the	
	3								light sails Wind	
	4	24	SWxW	SE	1/2				gradialy moderating	
	5								at the time	
	6									
	7								at 7 Pm light pumps	
	8	24	SWxW	SE	1/2				and the lookante	
	9								atandat in	
	10								at 8 Pm light Wind	
	11								and fogga Whit Rayn	
	12	16	SWxW	SE	1/2					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 85 W	127 miles	11' 8"	126'	57° 46'	57° 55'	29° E	3° 21'	156° 40'	157° 00'

From <i>Bark Europa San Francisco</i> towards <i>Breast Bay</i>									
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 3 day of May 1903
A.M.	1								at 3 Pm light ship
	2								hading by Kompas
	3	12	S	NE	1/2				Var light Wind
	4								lights and lachante
	5								alandat in
	6								at 5 am light ship
	7	12	SSE	ENE	1/2				hading by Kompas
	8								SSE light Wind
	9								man upland 911
	10								shes Duter
	11								at noon Ob alandat
	12	24	SSE	ENE	1/2				in
P.M.	1								at 4 Pm light Bazar
	2								at the the Whicht
	3								
	4	16	SSE	ENE	1/2				at 7 Pm light pumps
	5								and the lachante
	6								alandat in
	7								
	8	18	SE 1/2 E	NE 1/2					at 12 Pm light Bazar
	9								lachante alandat in
	10								
	11								
	12	3	ESE	NE	1/2				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 70 E	76 mls	25 S	71 E	52° 36'	53 02	30° E	1° 56' E	163 29	164 32

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 4 day of May 1903
A.M.	1								at 4 am Wind gradually
	2								hading toward NW
	3								
	4	17	NE	NW	1/2				a
	5								
	6								at 8 am light Wind
	7								and lachante ship heading
	8	23	NE	NW	1/2				NE
	9								
	10								
	11								at 11 am Ob alandat
	12	22	NE	NW	1/2				the olda being lachante
P.M.	1								at the the Whicht
	2								
	3								at 4 Pm light Wind
	4	26	NE 1/2 E	NW 1/2					and clear man lachante
	5								on ships Duter
	6								at 7 Pm light pumps
	7								and the lachante
	8	29	NE	VNW	1/2				alandat in
	9								
	10								at 7.30 Pm light ship
	11								hading SW 1/2 S
	12	15	SW 1/2 S	VNW 1/2	1/2				

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 38 E	46 mls	36 N	28 E	53 34	53 42	30° E	48° E	163 44	163 54

From <i>Bark Europa San Francisco</i> towards <i>Breast Bay</i>									
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 5 day of May 1903
A.M.	1								at 4 am a light
	2								Bazar Whet a clear
	3								admirer alandat
	4	6	SW 1/2 W	VNW 1/2					
	5								at 6 am Wind gradually
	6								hading toward SE
	7								man upland on
	8	17	VNW 1/2	NE 1/2					ships Duter
	9								
	10								
	11								at 12 am Ob alandat
	12								the upland lands
P.M.	1	20	NW	SSE	1/2				detol in the sea beam
	2								
	3								
	4	24	N 1/2 W	ENE 1/2					at 5 Pm gradual 5 Pm square of
	5								of the the unsmooth the unsmooth pass
	6								per being foggy being thick and foggy
	7								having these at the way the the
	8	23	W	E	1/2				pass at 2 am heading
	9								at 10 Pm being the up to 1 Pm 1/2 W 1/2 N
	10								by lachante lachante by lachante in and
	11								in the pass the lachante
	12	33	W 1/2 S	E 1/2					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 43 W	120 mls	1° 27' N	82' W	55 57	55 36	25 E	1° 21' W	166 20 W	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 6 day of May 1903
A.M.	1								at 2 am lachante
	2								app in the Wind heading
	3								by Kompas NW 1/2
	4	31	W 1/2 N	1/2					hading by lachante
	5								at 6 am lachante
	6								at 7 am lachante
	7								being foggy and more
	8	21	VNW 1/2	1/2					square the lach
	9								night at 3 am thick
	10								in the main the
	11								gallon and the the
	12	15	N 1/2 W 1/2	1/2					app top sail it is
P.M.	1								blowing a ship Bazar
	2								at 4 am moderating
	3								lights and the lachante
	4	12	N 1/2 W	2					at 6 am lachante
	5								at 12 am Ob alandat
	6								the olda being foggy
	7								at 4 Pm light Wind
	8	9	N 1/2 W	1/2					with the lachante
	9								farther lachante and yellow
	10								gradually lachante app
	11								at 7 Pm sat the main
	12	6	NNE	1/2					and maind gallon sail

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Bark Europa San Francisco* towards *Breton Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7	day of May 1903
A.M.	1									
	2									
	3									
	4	1	N	E	1/2				at 4 am a light Wind	
	5								and foggy at the the	
	6								Wacht lookouts at anchor	
	7								the	
	8	1	NW	ENE	1/2				at 8 am calm and	
	9								foggy at the the	
	10								Wacht	
	11									
	12	1	W	ENE	1/2					
P.M.	1								at 12 am still foggy	
	2								and moving back	
	3								Wacht Ob. lookouts by gull	
	4	12	E 1/4 N	NNE	1/2				at 1 Pm War ship heading	
	5								by the compass E also	
	6								left the light at anchor	
	7								back by 8	
	8	2	NE 1/4 N	WNW	1/2				at 8 Pm light Wind	
	9								and Clouds Wind backing	
	10								around the compass	
	11								at 12 Pm calm	
	12	1	NE 1/4 N	SW	1/2					

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 53 E 25 15 7 20 2 56 18 25 E 37 E 165 46

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 8	day of May 1903
A.M.	1									
	2									
	3									
	4	9	NE 1/4 N	ESE	1/2				at 4 am a light Breeze	
	5								from ESE next with	
	6								Rays	
	7								at 8 am still a light	
	8	20	NE 1/4 E	ENE	1/2				Wind ships head	
	9								by compass North	
	10								Man in place on ships	
	11								Dutch	
	12	9	NW 1/4 N	EVE	1/2				at 12 am light Wind	
P.M.	1								and foggy	
	2									
	3									
	4	9	SE 1/4 E	NE					at 4 Pm a light Wind	
	5								and snow ships	
	6								heading E 1/2 S	
	7								at 7 Pm lights and	
	8								pumps and the	
	9								lookouts at anchor the	
	10									
	11									
	12	2	ENE		calm					

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 56 E 10 10 6 48 8 1 56 12 56 42 25 E 15 E 165 31

From *Bark Europa San Francisco* towards *Breton Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 9	day of May 1903
A.M.	1									
	2									
	3									
	4								calm at the the Whatch	
	5								Marthe calm at the	
	6								the 24 or man in place	
	7								on ships Dutch subtr as	
	8								Praying yards and	
	9								lookouts and pumps and	
	10								lights at anchor the	
	11									
	12	2	NNE	ESE						
P.M.	1									
	2									
	3									
	4	9	NW 1/4 N	NE	1/2				at 4 Pm a light Breeze	
	5								from NE	
	6									
	7								at 7 Pm lights pumps	
	8	11	NW 1/4 N	NE	1/2				and the lookouts at anchor	
	9								the	
	10									
	11									
	12	2	SE	NE	1/2				at 12 Pm a light Breeze	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

N 2 E 56 10 86 N 2 8 E 57 38 57 46 25 E 7 8 164 37

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 10	day of May 1903
A.M.	1									
	2									
	3									
	4	6	NNE	ESE	1/2				at 2 am light ships	
	5								heading by compass NNE	
	6								at 4 am still a light	
	7								Wind but gradually	
	8	16	NNE	E	1/2				increasing	
	9									
	10								at 12 am light	
	11								ships heading by	
	12	23	NW 1/4 N	EVE	1/2				compass SE 1/2 S Wind	
P.M.	1								gradually increasing	
	2									
	3									
	4	30	SE 1/2 S	ENE	1/2				at 4 Pm Wind gradually	
	5								increasing	
	6									
	7									
	8	29	SE 1/2 E	EVE	1/2				at 7 30 Pm pumps	
	9								lights and the	
	10								lookouts at anchor	
	11								the	
	12	27	SE 1/2 E	NE	1/2				at 12 Pm still a light	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 25 E 10 2 41 32 S 43 E 56 14 56 12 25 E 163 02 163 00

From *Bark Europa Bristol Bay* towards *San Francisco*

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	19	day of August 1903
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12			SSE	SW	1/2						
P.M.	1											
	2											
	3											
	4	18		SSE	SW	1/2						
	5											
	6											
	7											
	8	9		S	SW	1/2						
	9											
	10											
	11											
	12	5		S	SW	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 3° W	77 miles	1° 16' S	3 9	56° 59' N	56° 54' N	16° E	8° 15' 58' W		

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	20	day of August 1903
A.M.	1											
	2											
	3											
	4	4		S	W	1/2						
	5											
	6											
	7											
	8	25		S	W	1/2						
	9											
	10											
	11											
	12	15		S	W	1/2						
P.M.	1											
	2											
	3											
	4	30		N	W	1/2						
	5											
	6											
	7											
	8	21		N	W	1/2						
	9											
	10											
	11											
	12	21		S	W	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 81° E	48 miles	7° 2' N	47 9 E	56° 46' S	57° 03' S	25° E	1° 26' E	157° 12'	159° 40' W

From *Bark Europa Bristol Bay* towards *San Francisco*

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	21	day of August 1903
A.M.	1											
	2											
	3											
	4	8		S	W	1/2						
	5											
	6											
	7											
	8	2		S	W	1/2						
	9											
	10											
	11											
	12	11		S	W	1/2						
P.M.	1											
	2											
	3											
	4	11		S	W	1/2						
	5											
	6											
	7											
	8	17		S	W	1/2						
	9											
	10											
	11											
	12	15		S	W	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 57° W	117 miles	1° 5' S	100 3	56° 02' N	55° 57' N	25° E	2° 57' W	162 42'	162 26' W

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	22	day of August 1903
A.M.	1											
	2											
	3											
	4	21		S	W	1/2						
	5											
	6											
	7	27		S	W	1/2						
	8	27		S	W	1/2						
	9											
	10											
	11											
	12	26		S	W	1/2						
P.M.	1											
	2											
	3											
	4											
	5											
	6	21		S	W	1/2						
	7											
	8	2		N	W	1/2						
	9											
	10											
	11											
	12	3		N	W	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 48° W	66 miles	46' S	46 8	55° 11' N		25° E	1° 21' W	164 48'	

From *Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1								at 4 am still a light		
	2								Wind but gradually		
	3								increasing leading to		
	4	5	SW x W	S	1/2				the Eastward		
	5								at 6 am Rigged the		
	6								Pump and Warbler		
	7								Dock, took at Bar		
	8	20	SW x W	E	1/2				EAN Dis 9 35 mi		
	9								at 8 am still a light		
	10								Wind from East with		
	11								Rayn		
	12	17	SSW	E	1/2				at 12 am Wind		
P.M.	1								Fishing White Rayn		
	2								lupin Cape Bar		
	3								at 2 pm took in the		
	4	26	SW x S	SSE	1/2				light rays Wind increasing		
	5								at 3 30 pm took in the		
	6								Mayn Rayl at 4 30 pm		
	7								took in the far given		
	8	13	W x N	SW	1/2				top Rayl being foggy		
	9								at 8 pm at 8 pm still foggy		
	10								at 12 pm still foggy		
	11										
	12	6	N x W	W	1						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 23 E	86 mi	1° 17'	33° 2'	53° 55'		24° E	41° E	164 14 W	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
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A.M.	1								at 1 am bare ship		
	2								hading by SSE still		
	3								a hain fly		
	4	12	SSE	W					at 4 am still foggy		
	5								White light Rayn cat		
	6								above ship ship had		
	7								SSE at 8 am behind		
	8	17	SSE	SW					the lupin Cape at the		
	9								lea Bar		
	10								at 10 am Thackt ship		
	11								egan hading by compass		
	12	37	NW x W	SW					SW x W		
P.M.	1								at 1 pm lackt ship		
	2								hading by compass S x E		
	3								a light Wind at this		
	4	14	S x E	W					at 4 pm still a light		
	5								Wind		
	6								at 7 pm light pumps		
	7								and lackt at land at the		
	8								9 pm lackt ship have		
	9	28	S x E	W					by in Rayn ship had		
	10								N x W at 12 pm lackt ship		
	11								hading S x W still foggy		
	12	9	N x E	W							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	25	day of August 1903
A.M.	1								at 4 am still a hain		
	2								foggy and foggy White		
	3								Rayn at 5 am spread of		
	4	11	SSW	W					the unima to pass		
	5								Runn base thick salt		
	6								the far and main de		
	7								gallon rays		
	8	23	ESE	W					at 9 30 am ugemak Bar		
	9								SW x W Dis of about 9 mi		
	10								all the far and mayn		
	11								Rawl Mayn Rayl on at		
	12	25	SE x E	SW					spank the at nam ekahd the		
P.M.	1								at 12 am ugemak Bar		
	2								NW x W Dis of 21 mi		
	3								a slide Break along		
	4	36	SE x E	W					at 4 pm still a slide Break		
	5								White light Rayn		
	6								at 7 pm light pumps and		
	7								lackt at land at the		
	8	34	SE x E	W					at 8 pm still a slide Break		
	9								and land at the		
	10								at 12 pm a fine Break		
	11								along		
	12	31	SE x E	WNW							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 32 E	181 mi	2° 38'	99° E	57° 17'	51° 50' N	24° E	2° 41' E	161 53	160 18 W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	26	day of August 1903
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A.M.	1								at 4 pm still a slide		
	2								Break from WNW		
	3										
	4	30	SE x E	WNW					at 8 pm about the		
	5								same along ship		
	6								Duties at land at the		
	7										
	8	28	SE x E	WNW					at 12 am Ob at land at the		
	9								Ob ships Duties		
	10										
	11										
	12	28	SE x E	WNW					at 4 pm still a slide		
P.M.	1								Break White light Rayn		
	2								at 7 pm light pumps		
	3								and the lackt at land at the		
	4	29	SE x E	WNW					Duties During the Day		
	5										
	6										
	7										
	8	27	SE x E	WNW					at 12 pm light Break		
	9								and land at the		
	10										
	11										
	12	27	SE x E	WNW							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 17 E	165	2° 7' S	75° E	49° 43'	49° 50' N	24° E	1° 58' E	158 20 W	156 31 W

From *Bank Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 27	day of August 1903
A.M.	1									
	2									
	3	29	SE x E	WNW					at 4 am a moderating breeze from WNW	
	4								White Bayn signals the hat Watch	
	5									
	6									
	7	30	SE x E	WNW					at 8 am a light breeze from WNW and clear horizon started better the	
	8								Down the main Rigger	
	9									
	10									
	11	24	SE x E	NW						
	12								at 12 am Ob. at anchor in	
P.M.	1								alight Wind from NW	
	2								ships Duties at anchor	
	3	25	E x S	WNW					taking Down the fore Rigger	
	4									
	5									
	6									
	7	23	E x S	NW					at 4 pm still alight Wind at 7 pm light pumps and the lookouts at anchor	
	8									
	9									
	10									
	11								at 12 pm Wind abate the same White light Bay signals	
	12	24	E x S	NW						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 52 E	153 miles	1° 34'	120' 6"	48° 16'	48° 32'	27° E	3° 04'	153 27	152 34

H. K. 1/2 K. COURSES WINDS LEEWAY Temp. Air Temp. Water BAROM. REMARKS 28 day of August 1903

A.M.	1									
	2									
	3	26	E x S	NW					at 4 am still a strong breeze from WNW lights and lookouts at anchor	
	4									
	5									
	6									
	7	28	E x S	N					at 8 am Wind freshening gradually	
	8									
	9									
	10									
	11	21	E x S	WNW					at 12 am still a strong breeze from WNW Ob. at anchor	
	12								at 1 pm started the tar Down the main Rigger	
P.M.	1									
	2									
	3	26	E x S	NW					at 4 pm a steady breeze from NW	
	4								at 7 pm lights lookouts at anchor	
	5									
	6									
	7	25	E x S	NW					at 8 pm Wind gradually falling under WNW	
	8								at 12 pm a steady breeze from NW	
	9									
	10									
	11									
	12	27	E x S	WNW						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 57 E	171 miles	1° 33'	143' 8"	46° 50'	47° 13'	27° E	3° 35'	148 57	148 36

From *Bank Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 29	day of August 1903
A.M.	1									
	2									
	3									
	4	31	E x S	WNW					at 4 am still a light Wind gradually heading toward the harbor	
	5								clear all ships Duties at anchor	
	6									
	7									
	8	34	E x S	WNW					at 8 am Wind WNW	
	9								with the sparker and the gale top at	
	10								Breast up the yards	
	11								ships had E x S Sea	
	12	28	E x S	WNW					at 12 am Ob. at anchor	
P.M.	1								and also ships Duties	
	2									
	3									
	4	31	E x S	WNW					at 4 pm still a light Wind all the Watch	
	5									
	6									
	7									
	8	31	E x S	NNW					at 7 pm lights pumps and the lookouts at anchor	
	9								the also steady breeze all the	
	10								the Watch	
	11									
	12	27	E x S	NNW						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 62 E	153 miles	1° 10'	135' 10"	45° 39'	46° 09'	27° E	3° 15'	145 44	144 41

H. K. 1/2 K. COURSES WINDS LEEWAY Temp. Air Temp. Water BAROM. REMARKS 30 day of August 1903

A.M.	1									
	2									
	3									
	4	24	E x S	NNW					at 4 am alight Wind with light Bayn signals	
	5								all the Watch But gradually in heading	
	6								on toward the morning	
	7									
	8	25	E	WNW					at 8 am alight breeze and clouds ships Duties	
	9								at anchor	
	10									
	11									
	12	16	E	WNW					at 12 am Ob. at anchor	
P.M.	1								the also a very light Wind all the Watch	
	2									
	3									
	4	7	E	W					at 4 pm alight Wind from SW held the yards around and	
	5								found the sparker	
	6									
	7									
	8	3	E	NW					at 7 pm lights pumps and the lookouts	
	9								at anchor	
	10									
	11									
	12	4	E	NW					at 4 pm at 12 am making	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 48 E	22 miles	15° 8'	15' 15"	45 25	45 50	27° E	22° E	145 22	143 40

From *Bank Europa Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 1	day of August 1903
A.M.	1								at 4 am still calm	
	2								Wind blowing clear and	
	3		E	NNE 1/2						
	4	4								
	5								at 8 am alight as from	
	6								ENE started tan ships	
	7		E	NNE 1/2					Down the far running	
	8	5								
	9								at 12 am Ob. at anchor	
	10								Tan Wind halting SSW	
	11		SSE	NNE 1/2					tack ship heading by	
	12	7							compass ExS & keeping	
P.M.	1								Down the main running	
	2								spars	
	3		SE	NNE 1/2					at 4 pm a breeze light	
	4	6							Wind from ENE	
	5									
	6								at 8 pm Wind gradually	
	7		SEAS	NE 1/2					increasing what Kayor	
	8	14							sails from ENE	
	9								thought pumps on board	
	10								abandoned	
	11									
	12	23	SEAS	NE 1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 21 E	111 mls	1° 43'	40' 7"	43 41		27 E	56° E	144 26	142 W

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 1	day of September 1903
A.M.	1								at 12 pm Wind	
	2								gradually increasing	
	3		SE	NE 1/2						
	4	26							at 4 am at strong	
	5								Breeze from ENE	
	6									
	7		ExS 1/2 S	NE 1/2					at 8 am shortening	
	8	28							tan down in last 20 miles	
	9								and reef spunkies	
	10								and for sail it is	
	11		ExS 1/2 S	NE 1/2					blowing strong from	
	12	18							NNE	
P.M.	1								at 12 am Wind still	
	2								increasing and a	
	3		E	NNE 1					cloud horizon	
	4	14							at 4 pm Wind moderately	
	5								gradually also the	
	6								sea is going down	
	7		ESE	NNE 1					at 7 pm all main sail	
	8	8							main upper top and light	
	9								pumps and lock	
	10								abandoned	
	11									
	12	5	S	E						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 64 E	67 mls	25° 0'	62' E	43 17	43 39	24° E	1° 25' E	143 24	140 25

From *Bank Europa Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 2	day of September 1903
A.M.	1								at 1 am War ship	
	2								tan the Vander salt	
	3								the far upper top and	
	4	6	NNE	SE 1/2					gallen sails and star	
	5								rayl a light Wind	
	6								and square ships had	
	7		E	SSW 1/2					NNE by the compass	
	8	20								
	9								at 4 pm Wind gradually	
	10								increasing from SSW	
	11									
	12	25	E	SSW 1/2					at 8 am at strong Breeze	
P.M.	1								from SSW tack in	
	2								the gallen sails Ob	
	3								at anchor tan also	
	4	26	E	SSW 1/2					Barrel a chinaman	
	5									
	6								at 12 am still a	
	7								strong Breeze from	
	8	24	E	SSW 1/2					SSW Ob. at anchor tan	
	9								at 3 pm sail the main	
	10								de gallen sail Wind	
	11								gradually moderating	
	12	26	E	SSW 1/2					at 8 pm at strong Breeze	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 72 E	168 mls	57'	159' E	42° 25'	43 04	24° E	3° 35'	137 26	136 23

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 3	day of September 1903
A.M.	1								at 4 am still at anchor	
	2								Breeze from SSW	
	3									
	4	31	E	SSW 1/2					at 8 am sail the far	
	5								and make Rayl	
	6								Wind moderating	
	7									
	8	30	E	SSW 1/2						
	9									
	10								at 12 am Observation	
	11								at anchor tan also ships	
	12	31	E	SSW 1/2					Duties During the	
P.M.	1								24 and at 1 pm the cap	
	2								Down the main spars	
	3								at 4 pm at strong Breeze	
	4	31	ExS	SSW 1/2					from SSW	
	5									
	6								at 7 pm lights and	
	7								lock and pumps	
	8	28	ExS	SSW 1/2					at anchor tan Wind	
	9								gradually halting to	
	10								ward SSW	
	11								at 12 pm still alight	
	12	31	ExS	SSW 1/2					Wind from SSW clear horizon	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 60 E	157 mls	1° 15'	130° E	41° 10'	42 23	24° E	2° 55'	136 33	138 34

From *Bank Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 4	day of Sept 1903
A.M.	1								at 4 am still a light	
	2								Bear from SSW and	
	3								about SW small sailing	
	4	26	E x S	SSW 1/2					at 8 am still a light	
	5								Wind from SSW Ob	
	6								alandat tan also ships	
	7	23	E x S	SSW 1/2					Dutch at 6 am started	
	8								tan then ships warning	
	9								paint tank	
	10									
	11									
	12	12	ESE	SSW 1/2					at 12 am morning	
P.M.	1								Calme Ob. standat tan	
	2								still about small	
	3								Running from SW	
	4	2	ESE	Calme					ships Dutch standat	
	5								tan	
	6									
	7								at 7 PM lights pumps	
	8	3	ESE	Calme					and the lookouts	
	9								standat tan	
	10									
	11									
	12	12	ESE	NW					at 12 PM a light Wind	
									others the Watch	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 43 E	65 miles	47 S	44 E	40 25	41 26	23 E	58 E	135 35	131 26

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 5	day of Sept 1903
A.M.	1								at 4 am still a light	
	2								Wind But gradually	
	3								in bearing	
	4	16	ESE	NW						
	5									
	6									
	7								at 8 am Ob standat tan	
	8	16	ESE	NW					also ships Dutch paint	
	9								long down for an aft	
	10									
	11								at 12 am Ob standat	
	12	16	ESE	NW					tan also warning the	
P.M.	1								grip top out	
	2									
	3								at 4 PM Wind gradually	
	4	22	SE x E	W					heading toward West	
	5								also hands on glasses	
	6									
	7								at 7 PM lights pumps	
	8	22	SE x E	WSW 1/2					and the lookouts stand	
	9								tan	
	10								at 12 PM light fog and	
	11								Rain Wind light	
	12	26	SE x E	SW 1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 43 E	134 miles	38 S	91	39 45	39 38	22 E	2 NE	133 35	128 55

From *Bank Europe Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 6	day of Sept 1903
A.M.	1									
	2									
	3									
	4	24	SE x E	NW 1/2					at 12 am a light Wind	
	5								from WNW Ob and	
	6								ships Dutch standat tan	
	7								others the 24 am	
	8	22	SE x E	NW 1/2					at 4 PM a light	
	9								Wind from WNW	
	10									
	11									
	12	18	SE x E	NW					at 8 PM light pumps	
P.M.	1								and the lookouts standat	
	2								tan at 8 PM still a light	
	3								Wind But clear	
	4	20	E 1/2 S	NW						
	5									
	6									
	7									
	8	22	E 1/2 S	NW					at 12 PM a light Wind	
	9								Whit Rain and light	
	10								foggy others the Watch	
	11									
	12	13	E 1/2 S	NW						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 62 E	104 miles	48 S	91 E	38 55	38 55	22 E	1 58	131 W	126 44

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7	day of Sept 1903
A.M.	1									
	2									
	3								at 4 am still a light	
	4	10	E 1/2 S	W					Wind and clouds at	
	5								tan the watch lights	
	6								and lookouts standat	
	7								tan	
	8	18	E 1/2 S	W					at 8 am Wind gradually	
	9								heading toward SW	
	10								also in bearing	
	11									
	12	17	E	NW					at 12 am Ob standat	
P.M.	1								tan also ships Dutch	
	2								During the 24 am	
	3									
	4	22	E	NW					at 4 PM a light Bear	
	5								from WNW	
	6									
	7	32	E	NW						
	8	32	E	NW						
	9									
	10									
	11								at 7 PM lights pumps	
	12	37	E	NW					and the lookouts standat	
									tan 12 Wind in bearing	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 43 E	134 miles	38 S	91	39 45	39 38	22 E	2 NE	133 35	128 55

From <i>Bark Enterprise Rustol Bay</i> towards <i>San Francisco</i>										day of <i>Sept</i> 1903	
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS		
A.M.	1										
	2										
	3										
	4	36	E	NW					at 4 am anchor and strong breeze from NW		
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

From <i>Bark Enterprise San Francisco</i> towards <i>Rustol Bay</i>										day of <i>April</i> 1904	
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS		
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8	12	W x S	S E	1/2			31			
	9										
	10										
	11										
	12	24	W x S	S	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 67 W	74 miles	36"	86	38° 56'	38° 31'	23 E	1° 50'	124 50	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	1904
A.M.	1										
	2										
	3										
	4	18	NW x W	SW	1/2				still gyrate with Rayn. still the water light and lashed at anchor		
	5										
	6										
	7										
	8	18	W	SSE	1/2				at 6 am Warth Dicks and also ships Dicks at anchor		
	9										
	10										
	11										
	12	23	W	SE	1/2				at 12 am observation at anchor in Whitea clear horizon		
P.M.	1										
	2										
	3										
	4	22	W	S	1/2			30' 1	at 4 Pm ships Dicks at anchor		
	5										
	6										
	7										
	8	19	W	S	1/2				at 6 Pm tack in at the light sail a heavy SW swell running		
	9										
	10										
	11										
	12	20	W	S	1/2				at 12 Pm still a heavy swell from SW light and lashed at anchor		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 56 W	110 miles	1° 11"	91 W	39° 32'	39° 23'	23 E	1° 58'	126 48	

From						towards					
Bark Europa San Francisco						Crystal Bay					
H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LHEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	Day of month	Year
										17	day of April 1904

[illegible]

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	42 mls	39'	15'	40° 58'		24° E	20' W	129 W	129° 20' W

	H	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1904
A.M.	1										
	2										
	3										
	4	25		VNW	WSW	½				at 3 30 am tackt ship heading by canyon SSE	
	5										
	6										
	7	12		SS E	WSW	½				at 7 am tackt ship	
	8									egan heading by canyon	
	9									NW also Wall Sea	
	10									and aft and ship	
	11									Duty at anchor in	
	12	26		NW	SW	½					
P.M.	1									at 12 am Claude	
	2									White Kaye 3900	
	3									& now off end by	
	4	15		N+E	VNW	½				gatt at 11m tackt	
	5									the galley sail ran away	
	6									at 3 1 m tackt ship	
	7									heading by canyon	
	8	27		SWxS	NW	½				SWxS at 6 PM light	
	9									pump and the tackt	
	10									at anchor in at 8 PM	
	11									to get in for a topmast	
	12	16		SWxS	NW	1"				at 12 PM still 3900	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in	Lon. by Ob.
S 41° W	75 miles	56'	49'	40° 02'		24° E	1° 05'	130° 11'	

From *Bark Europa San Francisco* towards *Bristol Bay*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of April 1904
A.M.	1										
	2										
	3										
	4	13		SxW	W	1				at 4 am still a heavy b'ia Raining and have heavy squalls	
	5										
	6										
	7										
	8	21		SxW	WW	1				at 9 am take in the main upper topsail and the jib equal in h'ing and still a heavy b'ia Raining at 10 Val far and an board during the 24	
	9										
	10										
	11										
	12	14		SSW	WW	1					
P.M.	1										
	2										
	3										
	4	11		SW	NW	1				at 4 pm still a strong b'ia and a heavy squall Raining at 6 pm many lights and back at 10 at stand at the	
	5										
	6										
	7										
	8	9		SW	NW	1					
	9										
	10										
	11										
	12	9		SW	NW	1				at 11 pm lath the main top masts stay rat wind moderating	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in	Lon. by Ob.
N 14 W	25 miles	24'	6'	39° 43'	38° 56'	24° E	8'	131° 41'	131° 49'

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS	20	day of April 1904
A.M.	1											
	2											
	3											
	4	11		SW	NW	1						
	5											
	6											
	7											
	8	18		SW ½ S	NW	½						
	9											
	10											
	11											
	12	19		SSE	NW	¾						
P.M.	1											
	2											
	3											
	4	12		S	WNW	¾						
	5											
	6											
	7											
	8	20		W ½ NW	WSW	½						
	9											
	10											
	11											
	12	12		W	WSW	½						

[illegible]

From *Bark Lulup San Francisco* towards *Burlad Bay*

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	21	day of April 1904
A.M.	1											
	2											
	3											
	4	16		V	WSW	1						
	5											
	6											
	7											
	8	12		NNE	WNW	1						
	9											
	10											
	11											
	12	12		SWLS	WNW	1						
P.M.	1											
	2											
	3											
	4	9		SWLS	WNW	1						
	5											
	6											
	7											
	8	12		SWLS	WNW	1						
	9											
	10											
	11											
	12	16		SWLS	WNW	1						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 44 W	101 mls	10° 12' S	69 W	38° 30' N	37° 28' N	24 E	10° 29' W	133° 10' W	133° 09' W

	H	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	21	day of April 90
A.M.	1											
	2											
	3											
	4	16		SSW	WNW	½						
	5											
	6											
	7											
	8	26		SxW	WNW	½						
	9											
	10											
	11											
	12	24		SxW½W	WNW	½						
P.M.	1											
	2											
	3											
	4	22		SxW	WNW	½						
	5											
	6											
	7											
	8	25		~~SSW~~ W	WSW	½						
	9											
	10											
	11											
	12	12		NNW	WSW	½						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 67 W	46 miles	18'	41'	37° 46'	37° 28'	24° E	53'	133° 31'	

From *Barke Entrep* towards *San Francisco* *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	23	day of April 1904
A.M.	1										
	2										
	3										
	4	20	NW x N	W.					at 3 am took the		
	5								yardi galley sail		
	6								a moderate breeze		
	7								Burisham small sailing		
	8	16	NW x N	W.					at 8 am still a strong		
	9								Breeze and above sea		
	10								from SW running		
	11										
	12	15	WNW	SSW	1/2				at 12 am Obatand at the		
P.M.	1										
	2								at 3 pm took in the		
	3								main in galley sail		
	4	19	WNW	SW	1/2				at 4 pm square from		
	5								SSW		
	6										
	7								at 6 pm lights pumps		
	8	15	WNW	SSW	1/2				and the boat at stand at		
	9								the		
	10								at 11 pm have square		
	11								and Rayn		
	12	21	WNW	SSW	1/2						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 33 W	59 miles	49'	32'	38° 35'	38° 20'	24° E	41'	134° 12'	134° 15'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24	day of April 1904
A.M.	1										
	2										
	3								at 1 am took a back		
	4	6	SW x S	WNW	1/2				Wind strengthening to		
	5								NW hold up the flag		
	6								of the main sail and		
	7								Wang yard ship		
	8	6	S x W	W	1/2				had by compass WSW		
	9								at 4 am light wind and		
	10								clouds at 5 am left the		
	11								main and yard galley		
	12	17	N x E	WNW	1/2				sails		
P.M.	1								at 8 am still a light		
	2								Wind but increasing		
	3								at 9 am took ship		
	4	22	North	Wester	1/2				holding by compass N x E		
	5								at 12 am Obatand at		
	6								the ship Wall far and		
	7								at 1 pm still square		
	8	17	N x W	WSW	1/2				Whit Rayn		
	9								at 6 pm lights pumps		
	10								and look at stand at the		
	11								at 8 pm still square		
	12	18	N x W	WSW	1/2				at 12 pm still square		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 6 W	7 miles	9'	7'	39° 44'	39° 33'	24° E	9'	134° 21'	

From *Barke Entrep* towards *San Francisco* *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24	day of April 1904
A.M.	1										
	2										
	3										
	4	29	N x E	W	1/2				at 4 am square White		
	5								Rayn with rising		
	6								at 5 am took ship		
	7								holding by compass		
	8	15	SW x W	WNW	1/2				SW x W		
	9								at 6 am took in the		
	10								yardi galley sail		
	11								it is square from		
	12	15	SW x W	WNW	1/2				NW		
P.M.	1										
	2								at 12 am Obatand at the		
	3								the ship Wall far and		
	4	15	SW x W	NW	1/2				at 1 pm took in the main		
	5								di galley sail and open		
	6								top sail at 5 pm took		
	7								in the main open top		
	8	13	SW x W	NW	1/2				sail and the main sail		
	9								it is blowing hard		
	10								from NW at 6 pm lights		
	11								pumps and the look at		
	12	10	WSW	NNW	1				stand at the		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 80 W	78 miles	73'	76'	39° 20'	39° 01'	24° E	1° 38'	135° 33'	136° 03'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24	day of April 1904
A.M.	1										
	2										
	3										
	4	7	WSW	WNW	1				at 4 am Wind moderate		
	5								but still above sea		
	6								Running		
	7								at 5 am this morning		
	8	13	WSW	WNW	1				had more sails		
	9								Wind moderating		
	10								gradually at the time		
	11										
	12	21	WSW	NNW	1/2				at 8 am still a moderate		
P.M.	1								Breeze		
	2										
	3								at 12 Obatand at the		
	4	25	SW	WNW	1/2				stand at the Wall		
	5								far and at 1 pm		
	6								this 24 am		
	7										
	8	27	SW	WNW	1/2				at 1 pm ship's duty		
	9								at stand at the Running		
	10								of various Running		
	11								gear far and		
	12	19	SW x S	WNW	1/2				at 6 pm lights pumps		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 62 W	141 miles	1° 06'	124'	37° 58'	37° 41'	24° E	2° 38'	138° 41'	

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
A.M.	1									
	2									
	3									
	4	22		SW 1/2 S	WNW 1/2					at 4 am a light Wind and Clouds & ships Duties at anchor in
	5									
	6									
	7									
	8	24		SW 1/2 S	WNW 1/2					at 8 am with the force Rough a light Wind and Clouds
	9									
	10									
	11									
	12	26		SW 1/2 S	WNW 1/2					at 12 am still a light Wind and Clouds strong
P.M.	1									
	2									
	3									
	4	23		SSW	WNW 1/2					Obs. and his gath of Wall force and aft on board the ships Dues this 1st day
	5									
	6									
	7									
	8	21		S 1/2 W 1/2 W	WNW 1/2					at 6 Pm lights pumps and lockout at anchor
	9									
	10									
	11									
	12	19		SSW	WNW 1/2					at 8 Pm a light Wind and Clouds ships & Duties at anchor in at 12 Pm still a light Wind

H.	K.	½ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS	28	day of April 1904
1											
2											
3											
4	14		SxW	Wester	1/2				at 4 am a light Wind		
5									and Clouds		
6											
7									at 8 am a light Wind		
8	14		SxW	W	1/2				an clear horizon and		
9									also ships Duties stand		
10									by and off of the		
11									pirates man being drunk		
12	11		SxW 1/2 W	W	1/2				for several days		
1											
2									at 12 am Ob. stand at		
3									also ships Duties		
4	6		Sx E	W	1/2				also Calypso and aft		
5									During this 24 hrs		
6											
7									at 6 P.m. lighter party		
8	6		SSW	W	1/2				and the lookouts stand		
9									also ships Duties		
10											
11									at 12 P.m. weather calm		
12	1		SW	N	1/2				the had night ships		
									Duties stand at the		

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
A.M.	1									
	2									
	3									
	4	2		W ₂ N	SW	1/2				at 4 am a light Wind from SW but cloudy
	5									
	6									
	7									at 6 am Waster Dacks and ships Denter at anchor in
	8	14		W ₂ N	SW	1/2				
	9									
	10									at 8 am slight Wind
	11									
	12	22		NW ₂ W	SW	1/2				at 12 am at anchor in
P.M.	1									
	2									
	3									
	4	29		NW ₂ W	SW	1/2				at 4 Pm Wind gradually increasing also above water part Waste
	5									
	6									
	7									
	8	31		NW ₂ N	SW	1/2				at 6 Pm lighter breeze and the boat at anchor
	9									
	10									
	11									
	12	32		NW ₂ N	SW	1/2				at 11 Pm take in the gaff Topsail and set 2m slippers

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS
A.M.	1									at 4 am a moderate
	2									Breeze from WSW
	3									clouds
	4	32		NW 1/2 W	SW	1/2				
	5									
	6									at 8 am still the
	7									same Wind
	8	22		North	North	1/2				
	9									
	10									at 12 am a light Wind
	11									and clear & a stand
	12	15		SW 1/2 S	WW	1/2				in the Wall far and
P.M.	1									apt unboard this 24
	2									ago ships Duties at
	3									in
	4	3		SW 1/2 S	WW	1/2				at 4 P.m. a light
	5									Breeze from WNW
	6									
	7									
	8	2		S 1/2 W	W	1/2				at 6 P.m. light
	9									pump and the
	10									has Kauter at a stand
	11									in
	12	18		NW	SW	1/2				at 12 P.m. light Wind

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in	Lon. by Ob.
N 20 W	103 m	10° 36'	35'	40° 00'	39° 46'	24 E	46'	142° 02'	142° 23'

From *Bank Europe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 1 st day of May 1904
A.M.	1								
	2								
	3								
	4	27	NW	SW	1/2				at 4 am Gate the gallapad at 5 am back in the gallapad sail
	5								at 8 am Wind still increasing and a heavy swat running
	6								
	7	31	NW 1/2 N	SW	1/2				
	8								
	9								
	10								
	11								
	12	29	NW	SW	1/2				at 12 am Cloud but still obs. at anchor the obs. a light Wind from SW at 12 am Wind from aft during the 24 hrs
P.M.	1								
	2								
	3								
	4	23	NW 1/2 N	SW	1/2				at 4 pm Foggy and light Wind
	5								
	6								
	7								
	8	24	NW 1/2 W	SW	1/2				at 6 pm lights pump and the fog signals at anchor the
	9								
	10								
	11								
	12	26	NW 1/2 W	S	1/2				at 12 pm still foggy signals at anchor the

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 34 W 171 miles 2° 21' 74' 42' 07' 42° 02' 24 E 2° 13' 144° 26' 144° 53'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 2 nd day of May 1904
A.M.	1								
	2								
	3								
	4	34	WNW	S	1/2				at 4 am still fog & Wind gradually increasing back into the fog signals at anchor the ship being on the part.
	5								
	6								
	7								
	8	31	WNW	S	1/2				at 8 am a strong Breeze from S taking the fog rail middle way 30 02
	9								
	10								
	11								
	12	27	WNW	S	1/2				at 12 am still fog Barometer ray right 2 am Dawn to top sail it is blowing hard from WSW
P.M.	1								
	2								
	3								
	4	20	N 1/2 E	W	1/2				at 3 pm Gate the fog supper top sail and the spring Wind moderating
	5								
	6								
	7								
	8	15	N 1/2 E	W	1/2				at 6 pm lights pump and the fog signals at anchor the
	9								
	10								
	11								
	12	12	N 1/2 W	W	1/2				at 12 pm still fog signals at anchor the

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 0 E 88 miles 1° 27' 53' 43 34 43 29 24 E 7 E 144 19

From *Bank Europe San Francisco* towards *Bristol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 3 rd day of May 1904
A.M.	1								
	2								
	3								
	4	23	N 1/2 W	W	1/2				at 4 am still a light Wind from WSW Clouds
	5								
	6								
	7								
	8	14	N 1/2 W	W	1/2				at 8 am Gate the fog gallapad and Mayn Rail and obs. Rail off the fog gallapad and Rail Bulver Gate the fog Rail
	9								
	10								
	11								
	12	13	NW 1/2 N	WSW	1/2				at 12 am obs. at anchor the obs. still fog and aft aboard during the 24 hrs
P.M.	1								
	2								
	3								
	4	14	WNW	SSW	1/2				at 4 pm a light Wind
	5								
	6								
	7								
	8	20	W 1/2 N	SSE	-				at 6 pm pumps lights and the fog signals at anchor the
	9								
	10								
	11								
	12	34	W 1/2 N	SE	-				at 12 pm still foggy signals at anchor the

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 45 W 170 miles 1° 55' 122' 45° 29' 45° 25' 24 E 2° 55' 144 19 144 53

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 4 th day of May 1904
A.M.	1								
	2								
	3								
	4	42	W 1/2 N	SE	1/4				at 4 am Wind increas back in the fog and the main Rail and the spring Wind had toward SW bearing 29 89 off the yard.
	5								
	6								
	7								
	8	29	NW 1/2 N	SW	1/2				at 8 am Gate the fog the ship's Duties at anchor
	9								
	10								
	11								
	12	32	WNW	SSW	1/2				at 12 am obs. at anchor the obs. took in the fog gallapad Wind gradually increas ing
P.M.	1								
	2								
	3								
	4	28	NW 1/2 W	S 1/2 W	1/2				at 5 30 pm took in the main gallapad and fog off top sail and fog Wind increasing
	5								
	6								
	7								
	8	24	NW 1/2 W	SSW	1				at 6 pm lights pump and the fog signals at anchor the
	9								
	10								
	11								
	12	18	NW 1/2 W	SSW	1				at 8 pm lights pump and the fog signals at anchor the

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
N 19 W 111 miles 1° 45' 55' 47° 10' 47° 06' 26 E 31' 144 19 144 53

From *Europe San Francisco* towards *Brisol Bay*
Back *Europe San Francisco* *Brisol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	5	day of May 1904
A.M.	1										
	2										
	3										
	4	19	NW	SW	1'				at 4 am it is		
	5								Boeing has 4000 S		
	6								and a 4000 Rooning		
	7								Wagel is shipping		
	8	14	NW	SW	1'				Water at the time		
	9										
	10										
	11										
	12	11	NW	SW	1'				at 7 am a Bill ship		
P.M.	1								made out of station		
	2								along the covered White		
	3								Rigger Bird that		
	4								1/2 is Wall so far		
	5								ships Duties stand at		
	6								the		
	7								at 12 am Obs at stand		
	8	11	NW	SW	1'				the Obs Wall		
	9								for and aft During		
	10								the 24 or 5		
	11										
	12	12	NW	SW	1'				at 4 pm Wind made		
									rating rate the main		
									lappant stay and		
									6 pm lights pump and		
									look at stand at		
									12 pm at strong Bear		

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
 N10W 73 miles 10' 12' 45 17 48 20 26 E 18 145 14 59

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	6	day of May 1904
A.M.	1										
	2										
	3										
	4	14	NW	SW	1'				at 4 am still strong		
	5								Bute Moderating		
	6								at 5 am aman fall down		
	7								on Daeki and Brocke		
	8	17	NW	SW	1'				his lag by shipping on		
	9								Daeki 2000 lb		
	10								at 9 am rate the far		
	11								upper top sail and the		
	12	10	NW	SW	1/2				main de galley sail.		
P.M.	1								Wind moderating		
	2								at 12 am Obs at stand		
	3								the also ships Duties		
	4										
	5								at 6 pm lights pump		
	6								and the look at stand		
	7								the		
	8	18	NW	SW	1/2				at 8 pm lights Wind		
	9								and clouds ships Duties		
	10								stand at the		
	11										
	12	6	NW	SW	1/2				at 11 pm look at ship		
									Boeing light Wind		
									the look at		

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
 N29W 52 miles 45 25 49 15 48 55 26 E 39 149 34 149 06

From *Europe San Francisco* towards *Brisol Bay*
Back *Europe San Francisco* *Brisol Bay*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	7	day of May 1904
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8	17	SE	W	1/2				at 5 am Wind gradually		
	9								increasing rate		
	10								everything obs ships		
	11								Duties stand at the		
	12	27	NW	SW	1/2				at 12 am Obs at stand		
P.M.	1								the also ships Duties		
	2								Obs Wall far and aft		
	3								During this 24 or 5		
	4	26	NW	SW	1/2				at 4 pm Wind increasing		
	5								take in the main		
	6								de galley sail		
	7	18	NW	SW	1/2				at 6 pm lights pump		
	8								and the look at stand		
	9								the		
	10								at 12 pm Wind moderating		
	11								gradually		
	12	10	NW	SW	1/2						

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
 N10W 95 miles 10' 33 16 50 28 50 29 26 E 27 150 01 149 50

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	8	day of May 1904
A.M.	1										
	2										
	3										
	4	7	NW	SW	1/2				at 2 am rate the far		
	5								upper top sail and the		
	6								main top main stay		
	7								sail		
	8	15	NW	SW	1/2				at 7 am rate the main		
	9								sail main galley sail		
	10								a moderating of Bear		
	11								also ships Duties		
	12	18	NW	SW	1/2				stand at the		
P.M.	1								at 12 am Obs at stand		
	2								the Obs Wall far and aft		
	3								During this 24 or 5		
	4	14	S	WW	1/2				also ships Duties		
	5								stands at stand		
	6								at 1 pm look at ship		
	7								at 4 pm light Wind		
	8	15	SE	W	1/2				ship had S		
	9								at 6 pm lights pump		
	10								and look at stand		
	11								the		
	12	8	SE	W	1/2				at 12 pm light Wind		
									and clouds		

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.
 S20W 25 miles 23 8 50 06 50 06 26 E 13 150 02 150 29

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 78 W	32	8	31.5	42° 15'	52° 21'	26 E	57'	161° 24'	161° 23'

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 85 E	33 miles	2'	32 E	52 16	52 40	26 E	55	160 50	160 43

From <i>Europe San Francisco</i> towards <i>Brest Bay</i>										REMARKS 13 day of May 1904										
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.		H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.		
A.M.	1										2									at 4 am took in the
	2										3									main de galley sail
	3										4	19	NE	NW	1/2					a have great Raining
	4										5									
	5										6									
	6										7									at 8 am rate de main
	7										8	15	NE	NW	1/2					de galley sail Wind
	8										9									moderating gradually
	9										10									ships Duty at anchor
	10										11									ships had NE
	11										12	15	NE	NW	1/2					
P.M.	1										2									at 12 am Ob stand at
	2										3									the shore ships Duty
	3										4	14	NNE	WNW	1/2					at 10 Wal far and aft
	4										5									During this 24 hrs
	5										6									
	6										7									at 4 pm Wind moderate
	7										8	13	NE	WNW	1/2					rate far de galley sail
	8										9									at 6 pm light pumps
	9										10									and the 10 change stand
	10										11									the at 7 pm took ship
	11										12	20	SW	WNW	1/2					at 12 pm light Wind
	12																			at the watch
Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.										REMARKS 14 day of May 1904										
S 68 W 18 miles 6' 16' 52° 34' 52° 37' 26° E 27' 161° 10' 161° 34'																				
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.		H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.		
A.M.	1										2									at 3 am took ship
	2										3									Wind light cloudy
	3										4	13	SW	WNW	1/2					ships had NE by compass
	4										5									
	5										6									at 7 am took the ships
	6										7									hading by compass
	7										8	11	NE	WNW	1/2					WSW at ship's Duty
	8										9									at anchor the
	9										10									
	10										11									at 12 am Ob at anchor
	11										12	21	SW	WNW	1/2					the ships Duty
P.M.	1										2									from noon the noon
	2										3									old Wal far and aft
	3										4	19	SW	WNW	1/2					During this 24 hrs
	4										5									
	5										6									at 4 pm light Wind
	6										7									from WNW cloudy
	7										8	15	SW	WNW	1/2					ships had SW Duty at
	8										9									at 6 pm light pumps
	9										10									and the 10 change stand
	10										11									at 8 pm light Wind
	11										12	18	SW	WNW	1/2					and cloudy
	12																			at 12 pm light
Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.										REMARKS 14 day of May 1904										
S 48 W 26 miles 18' 18' 52° 19' 52° 32' 26° E 30' 162° W																				

From <i>Europe San Francisco</i> towards <i>Brest Bay</i>												
REMARKS 15 day of May 1904												
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.				
A.M.	1											
	2											
	3											
	4	18	SSW	WNW	1/2				at 4 am slight breeze from WNW with light squalls having my compass NNE			
	5											
	6											
	7											
	8	21	NNE	WNW	1/2				at 12 am obs. a tender in the ship's duties from noon that noon, obs. WNW and aft during this 24 hrs			
	9											
	10											
	11											
	12	23	NE & N	WNW	1/2							
P.M.	1											
	2								at 2 P.m. ship sighted 3000 m. ahead			
	3											
	4	27	NNE	WNW	1/2				at 6 P.m. lights running and the lighthouse ahead in the			
	5											
	6											
	7											
	8	18	North	W	1/2				at 8 P.m. wind gradually increasing			
	9											
	10											
	11											
	12	26	North	W	1/2				at 12 P.m. strong breeze took up at the light sails and main sail			
Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.												
N 33 E 94 m. 1° 18' 57' 53 37 53 54 26 E 10 25' 161 3 161 24												
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 16 day of May 1904			
A.M.	1											
	2											
	3											
	4	17	North	W	1/2				at 4 am slight strong breeze back in the main de gaff sail and jib			
	5											
	6											
	7											
	8	16	North	W	1/2				at 7 am W. breeze ships heading my compass SWS ships duties at anchor in the			
	9											
	10											
	11											
	12	13	SW & S	W	1/2				at 11 am saw the main de gaff sail Westward disappearing			
P.M.	1											
	2											
	3											
	4	17	SW & W	WNW	1/2				at 12 obs. at anchor in the ship's duties from noon that noon, obs. WNW and aft during this 24 hrs			
	5											
	6											
	7											
	8	18	WSW	NNW	1/2				at 4 P.m. slight breeze at 6 P.m. lights running and the lighthouse ahead in the			
	9											
	10											
	11											
	12	20	W	N	1/2				at 12 P.m. slight breeze			
Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.												
N 83 W 69 m. 8' 68' 54 52 53 57 26 E 10 36' 163 20 163 32												

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
				55° 20'	55° 20'	26° E		165°	165°

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in	Lon. by C
S 68 E	1.1 mi	22'	56'	55° 48'	55° 34'	25 E	41'	104° 30'	

From <i>Burke Europa San Francisco</i> towards <i>Bristol Bay</i>										
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	25 day of May 1904
A.M.	1									at 2.30 am tackt ship light Wind and cloudy Whit snow
	2	13	WxN	VNW 1/2						
	3									
	4									
	5									
	6									
	7									at 8 am still cloudy Whit snow light Wind and ship Duties at anchor
	8	12	E	VNW 1/2						
	9									
	10									
	11									
	12	16	E 1/2 N	VNW 1/2						at 12 am obs at anchor to olda Buoy, Cloudy ship Duties at anchor
P.M.	1									
	2									
	3									
	4	14	ENE	VNW 1/2						at 4 Pm alight Wind and foggy
	5									
	6									
	7									
	8	5	E 1/2 N	VNW 1/2						
	9									
	10									
	11									
	12									at 12 Pm marder Calm ship Duties at anchor

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 75 E	26 miles	6'	25' E	55° 54'		25' E	45' E	163 51	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	26 day of May 1904
A.M.	1									
	2									
	3									at 4 am Calm. the foggy and foggy fog signal and the lookant at anchor to also ship Duties
	4									
	5									
	6									
	7									
	8	3	NVE	E						at 8 am light Wind and cloudy
	9									
	10									
	11									
	12	8	N 1/2 E	E	1/2					at 12 am same light Wind and cloudy mist obs
P.M.	1									
	2									
	3									
	4	14	NxN 1/2 W	E	1/2					at 4 Pm distant land and astrame okome and a ship in the weather was too light
	5									
	6									
	7									Wind turning very foggy
	8	22	N 1/2 W	E	1/2					at 6 Pm light pumps and the lookant stand to at 8 Pm alight Wind
	9									
	10									
	11									
	12	25	N 1/2 E	E	1/2					at 2 Pm still alight and

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 26 E	86 miles	10' 17"	57' E	57° 11'	57° 35'	25' E	10° 08'	162 43	163 19

From <i>Burke Europa San Francisco</i> towards <i>Bristol Bay</i>										
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	27 day of May 1904
A.M.	1									
	2									at 4 am alight Wind an clear horizon
	3									
	4	24	N	E	1/2					
	5									
	6									
	7									at 8 am tackt ship heading by compass
	8	27	N 1/2 W	E	1/2					SSE lookant sail being by calculation
	9									Waters island
	10									
	11									
	12	27	SSE	E	1/2					at 12 am an moderate
P.M.	1									Bear from the East
	2									obs at anchor to also
	3									ships Duties from
	4	24	SSE	ENE	1/2					noon. the noon
	5									at 12 val far and
	6									at 4 Pm Wind gradually
	7									in firming
	8	25	~~SSE~~ ~~SSE~~ ~~ENE~~	1/2						at 6 Pm light pumps
	9									and lookant at anchor
	10	38	SE x S 1/2 S	ENE	1/2					at 8 Pm light pumps
	11									at 10 Pm light pumps
	12									at 12 Pm light pumps

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 30 E	79 miles	1° 18'	4' 4"	56° 17'	56° 10'	25' E	8' E	162 35	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	28 day of May 1904
A.M.	1									
	2									
	3									at 3 am tackt ship heading by compass
	4	27	~~N 1/2 W~~	E	1/2					SSE light Wind and
	5									cloud
	6									
	7									
	8	24	SSE	E	1/2					at 8 am still alight
	9									Wind and cloudy
	10									Whit Rayn ship had
	11									SSE ship Duties
	12	19	SE x S	E	1/2					at anchor to
P.M.	1									
	2	3	SE x S	E	1/2					at 12 am obs at anchor
	3									to also ship Duties from
	4									noon the noon light
	5									Wind and Rayn obs
	6									Whit far and off during
	7									this 24 am
	8	5	N 1/2 W	ENE	1/2					at 6 Pm tackt ship
	9									at 6 Pm light pumps
	10									and the lookant at anchor
	11									at 8 Pm alight Wind
	12	13	N 1/2 W	ENE	1/2					and cloudy

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
N 62 E	32 miles	1° 15'	28'	56° 25'		25' E	5' E	161 45	

From <i>Barb. Europe San Francisco</i> towards <i>Bristol Bay</i>											
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 29 day of May 1904		
A.M.	1								at 3 am light ship hading by compass ESE light Wind and Ray n ships Duties stand at		
	2										
	3	12	WNW	EVE	2						
	4										
	5										
	6								at 8 am light ship Brian White (Payer), ships Duties stand at to		
	7										
	8	26	E	N	2						
	9										
	10										
	11								at 12 am north light ship are from SSW strong yards and gatt here off by light Wind ship Duties stand at to		
	12	0	NE x E	N	2						
P.M.	1										
	2										
	3										
	4								calm all the Watch Breeze sharp at Water lighting the land on light ship at the time at 4 pm light ship SSW fog signal stand at to at the the Watch		
	5										
	6										
	7										
	8										
	9								calm		
	10										
	11										
	12										
	12								calm		

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
Calcut	00	00	00	56 25	56 36	25 E	00	161 45	161 52

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS 30 day of May 1904
A.M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P.M.	1									
	2									
	3									
	4	2		NE x N	S					
	5									
	6									
	7									
	8	8		NE x N	S					
	9									
	10									
	11									
	12	10		NE x N	SE					

From <i>Barb. Europe San Francisco</i> towards <i>Bristol Bay</i>											
H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 31 day of May 1904		
A.M.	1								at 4 am riding the the is the light Watch ship had NE Breeze light Wind also Wal ships Duties stand at		
	2										
	3										
	4	5	NNE	SE							
	5										
	6								at 8 am light ship in the air arounding have been retired same ship down to Lavaad Bing in the Water grand yards and the same flag down the in the Water also Wal ships Duties stand at to at 12 o'clock light ship in the air Obs stand at to also ships Duties from noon till noon ship retired in the Water at 12 pm light Wind		
	7										
	8	5	NNE	SE							
	9										
	10										
	11								calm off the is		
	12	5	W	SE							
P.M.	1										
	2										
	3										
	4	7	WSW	E							
	5								calm		
	6										
	7										
	8	7	SSW	E							
	9										
	10								calm		
	11										
	12	4	SSW	E							

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 32 W	13 miles	10' 18"	8' W	56 44	56 58	25 E	15' W	161 16	161 48

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS /	day of June 1904
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8	5		NE x N	NW	—					
	9										
	10										
	11										
	12	6		S x E	Wart						
P.M.	1										
	2										
	3										
	4	8		S x E	Wart						
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 32 E	8 miles	3'	4' E	56° 54'	56° 56'	25° E	8'	161 W	161 12

From *Barke Europe San Francisco* towards *Bristol Bay*

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of June 1904
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8	3		S	E	—	—	—			
	9										
	10										
	11										
	12	4		NNE	18	—	—	—			
P.M.	1										
	2										
	3										
	4	11		SSE	N	—	—	—			
	5										
	6										
	7										
	8	6		WNW	NE	—	—	—			
	9										
	10										
	11										
	12	8		NxW	E						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
					57 20				161 30

[illegible]

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
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From *Beale Lake* *San Francisco* towards *Beale Lake*

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of year 1904
A.M.	1										
	2										
	3										
	4									at 4 am in Tow Bay the steamer President	
	5									at 30 am left the harbor and Dropped the anchor	
	6									of Round island in Land of 45 fathoms of Chain	
	7									Pendant for lost the Winches steamer going toward	
	8									the Cape Constantine look for opening to get there	
	9									at 8 am steamer president and the 2 boats were	
	10									came back and added to give away the anchor	
	11										
	12										
P.M.	1									Under Tow by the tow steamer	
	2										
	3										
	4									at 4 Pm Dropped the anchor of the Bar in Land	
	5									of Bing thick and Rain 45 fathoms in the Waters	
	6									aged Bing tot bay the steamer both Captain La Biapsky	
	7									any thing was called	
	8									an steamer Biengon	
	9									the Dark of the three	
	10									old was for and all	
	11									also large gear was put a left	
	12									Ready for Discharging	

[illegible][illegible]

12										
Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.	

Back Entry.
From Bristol Bay towards San Francisco

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of August 1894
A.M.	1									getting ready for sea taking on the remainder of the ship's cargo and on board the ship taking in the life boats and taking thing on board	
	2									ships draft 21 feet aft and 20 feet 6 inches forward	
	3									at 6 pm the remainder of the explosives were on board	
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1									on the 17th being fog and heavy ships duties stand at the taking ships back and life boats also having steam ready for having anchor at any time	
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of August 1894
A.M.	1									still to an anchor of Clark's Bitch saying for having out being thick fog and heavy and SE Wind	
	2										
	3										
	4										
	5										
	6										
	7									at 7 am in the morning on the 19th the star of Frankford out by the steamer President and Rediachi being strong wind and heavy fog again	
	8									hatch and anchor light stand at the	
	9										
	10										
	11										
	12										
P.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

Back Entry.
From Bristol Bay towards San Francisco

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of August 1894
A.M.	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
P.M.	1									at 6 pm Bristol the bay boats were busy at this time	
	2										
	3										
	4									at 7 pm with the fog and aft sails	
	5										
	6										
	7									at 8 pm with the fog sails at 7.30 pm the fog kind of a massing the gunnery of the last night yard at 11 pm the fog clearing the yard took in at the lighter sails	
	8										
	9										
	10										
	11										
	12										

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

	H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of August 1894
A.M.	1										
	2	40		SSE	SW	½				at 3 am had the fog returned temporary till next morning	
	3									at 8 am started to set the yard	
	4	20		SSE	SW	½				going with the ship	
	5									passing at 11 am	
	6									with sails wind gradually moderating	
	7									at 12 am the ship land set down to lower the ship had by compass WNW and foggy	
	8	14		SSE	WSW	½				at 4 pm moderating white rain	
	9										
	10									at 7.30 pm took the ship	
	11									ship had by compass SSE a moderating breeze	
	12	17		SSE	WSW	½				with rain ship duties stand at the	
P.M.	1									at 12 pm light wind	
	2										
	3										
	4	15		NW	SW	½					
	5										
	6										
	7										
	8	12		NW	SW	½					
	9										
	10										
	11										
	12	14		SE	SW	½					

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

SSE 67 mi's 57.36 58.17

SSE 67 mi's 57.36 58.17

From

towards

From

towards

[illegible][illegible]

	H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS			
										22 day of August 1904			
A.M.	1												
	2									at 4 am light wind and			
	3									l. rays fog signal			
	4	14		SW x W	SE	1/2				stand at the ships head			
	5									SW by compass			
	6												
	7									at 8 Pm still fog			
	8	19		SW x S	S E	1/2				and rays ships			
	9									Duties stand at			
	10												
	11									at 12 am light wind			
	12	25		W x S 1/2 S	S S E	1/2				and Claude Van Obe			
P.M.	1									ships Duties stand at			
	2												
	3									at 4 Pm still a moderate			
	4	26		W x S	S	1/2				Brian a ship is visible			
	5									app to windward also			
	6									ships Duties stand at			
	7									to			
	8	11		SE x S	SW	1/2				at 8 Pm tack to ship			
	9												
	10									at 7 Pm lights pumps			
	11									and lock anti land at			
	12	15		S x E 1/2 E	WSW	1/2				to at 12 Pm light wind			
										and Claude van Obe			
				Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
				S 20 W	61 miles	57'	20"	56° 32'	57° 10'	26° E	37'	162 34'	162 15'

H.	K.	½K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	24	day of Aug	190
A.M.	1											
	2											
	3											
	4	12	S ½ E	W	½							
	5											
	6											
	7											
	8	8	S x E	WSW	½							
	9											
	10											
	11											
	12	14	WNW	S	½							
P.M.	1											
	2											
	3											
	4		Calme									
	5											
	6											
	7											
	8		Calme									
	9											
	10											
	11											
	12	N.	SW.	FSE								
			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	81 miles	5' 51"	5' 9"	54° 58'		25°	1° 43'	164°	

From *Bark Entrep* *Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 25	day of Aug 1904
A.M.	1									
	2									
	3									
	4	14	SW 1/2 S	SE	1/2				at 4 am a light breeze from S E lights and lighthouse at stand at 10	
	5									
	6									
	7									
	8	27	S x W	SE	1/2				at 8 am take in the light rays and gradually in passing ships Duties at stand at 10	
	9									
	10									
	11									
	12	06	S x W	E NE	1/2					
P.M.	1									
	2									
	3									
	4	17	S 1/2 W	E	1/2				at 12 am a strong breeze from E NE and clouds	
	5									
	6									
	7								at 4 Pm a light wind being the last patch	
	8	7	SE x S	W	1/2				at 4 Pm a great blowing from NE starting down to last top sails	
	9									
	10									
	11									
	12	6	S S E	E	1/2				at 30 Pm sails the fore sail and main top sail	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 31 E 163 2 1/2 2° 19' 83' 51° 53' 52° 30' 25° E 2° 19' 162 25 160 57

From *Bark Entrep* *Bristol Bay* towards *San Francisco*

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 27	day of Aug 1904
A.M.	1									
	2									
	3									
	4	26	SE x E	NW	-				at 4 am a moderate breeze from NW ships Duties at stand at 10	
	5									
	6									
	7									
	8	29	SE x E	NW	-				at 8 am Obs at stand at 10 ships Duties	
	9									
	10									
	11									
	12	21	SE x E	NW	-				at 12 am Obs at stand at 10 ships Duties	
P.M.	1								obs at 10 far and aft ships Duties strike at stand at 10	
	2									
	3									
	4	22	E	W	-				at 4 Pm a moderate breeze from W and ships Duties in the port	
	5									
	6									
	7									
	8	20	E	W	-				at 8 Pm a light wind lights pumps and the	
	9									
	10									
	11									
	12	12	E	W	-				at 12 Pm a light wind	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 65 E 71 1/2 32' 68' 51 57 51 51 25° E 10 51 158 26

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 26	day of Aug 1904
A.M.	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
P.M.	1									
	2									
	3									
	4	28	SE	NW	-				at 12 am a light breeze from N E	
	5									
	6									
	7									
	8	31	SE x E	NW	-				at 12 am a light breeze from N E	
	9									
	10									
	11									
	12	28	SE x E	NW	-				at 12 am a light breeze from N E	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 31 E 163 2 1/2 2° 19' 83' 51° 53' 52° 30' 25° E 2° 19' 162 25 160 57

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 28	day of Aug 1904
A.M.	1									
	2									
	3									
	4	10	E	W	-				at 4 am a bare light wind from W to NW	
	5									
	6									
	7									
	8	20	E	W	-				at 8 am a light wind white rays ships Duties at stand at 10	
	9									
	10									
	11									
	12	11	E	W	-				at 12 am Obs at stand at 10 ships Duties	
P.M.	1								obs at 10 far and aft ships Duties at stand at 10	
	2									
	3									
	4	10	E x S	SW	-				at 4 Pm a light wind from S W	
	5									
	6									
	7									
	8	10	E x S	SW	-				at 8 Pm lights pumps and the lighthouse at stand at 10	
	9									
	10									
	11									
	12	10	E x S	SW	-				at 12 Pm a light wind from S W ships Duties at stand at 10	

Course Distance Diff. of Lat. Departure Lat. by D.R. Lat. by Ob. Variation Diff. of Lon. Lon. in. Lon. by Ob.

S 54 E 79 1/2 43' 59' 51 57 51 51 25° E 10 51 158 26

Boake Entrep
From

towards

San Francisco Bristol Bay San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 29	day of Aug 1904
A.M.	1								at 4 am a light wind	
	2								from the north	
	3									
	4	12	E x S	W	—				at 8 am a light	
	5								wind and clear	
	6								started to then down	
	7								the far Riggan	
	8	15	E x S	W	—				main and messen	
	9								Riggan also ships	
	10								had E x S' lanes	
	11									
	12	17	E x S	W	—				at 12 am Obs atand at	
P.M.	1								to also clearing off	
	2								Brute Works aft	
	3								at 12 noon far and aft	
	4	18	E x S	NW	—				ships Dutin atand at	
	5									
	6								at 4 Pm a light wind	
	7								what Rayn	
	8	23	E x S	NW	—				at 7 Pm lights pump	
	9								and the lock out atand at	
	10								to light wind and Rayn	
	11								at 12 Pm light wind and	
	12	25	E x S	NW	—				Rayn	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 74 E	137 miles	1° 20'	110	49° 51'		25° E	2° 52'	153° 11'	152° 37'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 30	day of Aug 1904
A.M.	1								at 4 am light wind	
	2								what should ships	
	3								Dutin atand at	
	4	25	E x S	NW	—				at 8 am light wind	
	5								and ships Obs	
	6								atand at to also ship	
	7								Dutin clearing Brute	
	8	26	E x S	NW	—				Works aft	
	9									
	10									
	11									
	12	22	E x S	NW	—				at 12 am a light wind	
P.M.	1								and clouds what Rayn	
	2								at 12 noon far and	
	3								aft and ships Dutin	
	4	24	E x S	NW	—				atand at to	
	5									
	6								at 4 Pm light wind	
	7								and Rayn	
	8	21	E x S	NW	—				at 7 Pm lights pump	
	9								and lock out atand at	
	10									
	11								at 12 am a light wind	
	12	13	E x S	NW	—				at 4 Pm wind halting	

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	85 miles	1° 4'	78	48° 46'	49° 06'	25° E	1° 25'	151° 45'	151° 10'

Boake Entrep
From

towards

Bristol Bay San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 31	day of Aug 1904
A.M.	1								at 4 Pm light wind	
	2								and clouds ships	
	3								had NW E ships Dutin	
	4	3	NE x N	E	1/2				atand at to	
	5									
	6	3	ENE	E	1/2				at 6 am light ships	
	7									
	8	12	SE x S	E	1/2				at 8 am a light	
	9								wind from E ships	
	10								Dutin atand at to	
	11								thuring Dange the	
	12	22	SSE	NE	1/2				main Riggan	
P.M.	1									
	2								at 12 am Obs atand at	
	3								to also ships Dutin	
	4	25	SE	NE	1/2				from noon the main	
	5								Obs atand at to	
	6									
	7								at 4 Pm wind in	
	8	36	E x S	NE	1/2				clearing	
	9								at 8 Pm look in all the	
	10								light sails for up top sail	
	11								main sail and gill	
	12	24	E x S	NE	1/2				at 12 Pm light wind and	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 46 E	106 miles	1° 14'	90	47° 52'	47° 49'	25° E	1° 54'	149° 16'	149° 38'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 1	day of Sept 1904
A.M.	1								at 4 am a light wind	
	2								and have small from	
	3								NE	
	4	15	E x S	NNE	1/2				at 7 am light ships	
	5								haching by lamps	
	6								ENE	
	7								at 9 am with the far	
	8	7	SE	NE	1/2				upper top sail and	
	9								main sail a have ma	
	10								stet Running from	
	11								NE	
	12	5	ENE	SE	1/2				at 12 am Obs atand at	
P.M.	1								to also ships Dutin	
	2								from the main also	
	3								ball far and aft	
	4								at 4 Pm Calme	
	5								the watch	
	6									
	7								at 7 Pm lights pump	
	8								and lock out atand at	
	9								at 12 Pm light wind	
	10									
	11									
	12	4	SSE	NE						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 22 E	41 miles	3° 37'	15	47° 11'	46° 58'	25° E	1° 23'	149° 15'	149° 10'

Back Entrance
From Bristol Bay towards San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 2	day of Sept 1904
A.M.	1									
	2									
	3									
	4	4	SE x E	NE 1/2					at 4 am a light wind from NE sat all the light sails	
	5									
	6									
	7								at 8 am wind gradually increasing obs stand to also ships Dutin from	
	8	14	S-E	NE 1/2						
	9									
	10									
	11									
	12	17	SE x E	NE 1/2					at 12 am a moderate Breeze from NE obs stand to also ships Dutin from noon that was	
P.M.	1									
	2									
	3									
	4	24	ESE	NNE 1/2					at 4 pm wind gradually increasing	
	5									
	6									
	7									
	8	28	E x S	NE 1/2					at 7 pm lights pumps and the lackaut stand to	
	9									
	10									
	11									
	12	31	E 1/2 S	NE 1/2					at 12 pm a strong Breeze from NW with Rain	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 57 E	172 miles	1° 35'	144' 6"	45° 22'	45° 20'	25° E	3° 28'	145° 42'	145° 40'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 3	day of Sept 1904
A.M.	1									
	2									
	3									
	4	33	E	NNW 1/2					at 4 am a strong Breeze from NNW with Rain ships making clear good	
	5									
	6									
	7									
	8	33	E	NW 1/2					at 8 am a moderate Breeze from NW clear no more ships Dutin stand to	
	9									
	10									
	11									
	12	27	E	NW					at 12 am obs stand to also ships Dutin also Ball	
P.M.	1									
	2									
	3									
	4	22	E x N	W					at 4 pm Wind backing to SW increasing	
	5									
	6									
	7								at 7 pm lights pumps and lackaut stand to	
	8	27	E x N	SW					at 8 pm a variable white Rain at 10 pm lackaut the light sails and also the gallies sails also	
	9									
	10									
	11									
	12	31	E x N	SW						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 74 E	173 miles	48'	166' 0"	44° 31'	44° 30'	25° E	3° 36'	141° 05'	140° 07'

Back Entrance
From Bristol Bay towards San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 4	day of Sept 1904
A.M.	1									
	2									
	3									
	4	30	E x N	SW					at 4 am a strong Breeze from SW with Rain	
	5									
	6								at 7 am sails the main and for the gallies sails are stay sails wind gradually freshening	
	7									
	8	30	E x N	SW						
	9									
	10									
	11									
	12	34	E	SW					at 12 am still a strong Breeze and Rain obs stand to also ships Dutin from noon that was also Ball for and aft	
P.M.	1									
	2									
	3									
	4	31	E	SW					at 4 pm a moderate Breeze from SW	
	5									
	6									
	7	31	E	SW					at 7 pm lights pumps and lackaut stand to at 8 pm light wind	
	8									
	9									
	10									
	11									
	12	32	E	SW					at 12 pm a strong Breeze from SW	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 72 E	183	55'	174' 5"	43° 36'	44° 26'	23° E	4° 03'	136° 57'	136° 24'

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 5	day of Sept 1904
A.M.	1									
	2									
	3									
	4	29	E	SW	1/2				at 4 am a strong Breeze from SE and the lackaut stand to	
	5									
	6								at 6 am ships Dutin stand to	
	7									
	8	33	E x N	S	1/2				at 8 am still a strong Breeze from S starting the mainmast the mainmast Rainy Spray also obs stand to	
	9									
	10									
	11									
	12	29	E x N 1/2 W	S	1/2				at 12 am obs stand to also ships Dutin from noon that was also Ball for and aft	
P.M.	1									
	2									
	3									
	4	30	E x N 1/2 W	S	1/2				at 4 pm a strong Breeze from SW	
	5									
	6									
	7								at 7 pm lights pumps and lackaut stand to also the light sails and also the gallies sails also	
	8	27	E x N 1/2 W	S	1/2					
	9									
	10									
	11									
	12	27	E x N 1/2 W	S	1/2					

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 72 E	183 miles	55'	174' 5"	43° 36'	44° 26'	23° E	4° 03'	136° 57'	136° 24'

Barke Europa

From

Bristol Bay

towards

San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 6	day of Sept 1904
A.M.	1									
	2									
	3									
	4	19	E x S'	SSW 1/2					at 4 am wind gradually moderating rate the main de gaffers sail and main and middle stay sail ships Dutis stand at to	
	5									
	6									
	7									
	8	27	E x S'	SSW 1/2					at 12 am Obs stand at to also ships Dutis from noon till noon	
	9									
	10									
	11									
	12	25	E x S'	SSW 1/2						
P.M.	1									
	2									
	3									
	4	27	E x S	SWN 1/2					at 4 pm wind light and clouds rate the main and fore Rye and flying jib	
	5									
	6									
	7								at 7 pm a light wind lights pumps and lookouts stand at to	
	8	28	E	S	1/2					
	9									
	10									
	11									
	12	27	E x S	S	1/2				at 12 pm light wind and fog ships Dutis stand at to	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 66° E	153 miles	10° 05'	139'	42° 35'	43° N	23° E	3° 11'	130° 21'	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 7	day of Sept 1904
A.M.	1									
	2									
	3									
	4	19	E	S'	1/2				at 4 am a light wind clouds	
	5									
	6									
	7									
	8	31	E x S'	S	1/2				at 8 am still a light wind clouds ships Dutis stand at to	
	9									
	10									
	11									
	12	22	E S' E	S'	1/2				at 12 am light wind and clouds horizon Obs stand at to also ships Dutis from noon till noon	
P.M.	1									
	2									
	3									
	4	20	S' E	S' V'	1/2				at 4 pm lights pumps and lookouts stand at to	
	5									
	6									
	7									
	8	11	S' E	S' W	1/2				at 8 pm a light wind and clouds lookouts stand at to	
	9									
	10									
	11									
	12	4	S E	S W	1/2				at 12 pm a light wind and clouds	

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 22° E	90 miles	10° 23'	33'	41° 55'	42° 06'	23° E	45'	129° 41'	

Barke Europa

From

Bristol Bay

towards

San Francisco

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 8	day of Sept 1904
A.M.	1									
	2									
	3									
	4	4	S' E	NW					at 4 am a light wind and clouds	
	5									
	6								at 6 am started chaining paint work	
	7								at 8 am still a light wind and clouds	
	8	8	S E	N						
	9									
	10								at 12 am light wind Obs stand at to	
	11									
	12	7	S' E	N						
P.M.	1									
	2								at 4 pm wind gradually increasing	
	3									
	4	10	S E	NNW						
	5									
	6								at 7 pm lights pumps lights and lookouts stand at to	
	7									
	8	35	S' E x E	NNE						
	9									
	10									
	11								at 12 pm a strong breeze from NNE clouds	
	12	37	S' E x E	NNE						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 34° E	183 miles	2° 33'	103'	39° 12'	39° 25'	22° E	2° 15'	127° W 125° 21'	

H.	K.	1/2 K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS 9	day of Sept 1904
A.M.	1									
	2									
	3									
	4	34	S' E x E	NNE					at 4 am wind moderating and clouds from NNE	
	5									
	6									
	7								at 8 am moderate breeze from NNW ships Dutis stand at to	
	8	37	S E x S	NNW						
	9									
	10									
	11									
	12	32	S E x E	NNW					at 12 am Obs stand at to also ships Dutis from noon till noon	
P.M.	1									
	2									
	3									
	4	35	S' E x E	NNW					at 4 pm still a strong breeze from NNE ships Dutis stand at to	
	5									
	6									
	7									
	8	34	S E x E	NNW					at 7 pm pumps lights and lookouts stand at to	
	9									
	10									
	11								at 12 pm a light wind and clouds	
	12	29	S E x E	N						

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon. by Ob.
S 47° E	165 miles	6° 57'	120'	37° 21'		23°	2° 55'	122° 40'	

From

towards

San Francisco

From

towards

[illegible]

From

towards

From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190		H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1												A.M.	1											
	2													2											
	3													3											
	4													4											
	5													5											
	6													6											
	7													7											
	8													8											
	9													9											
	10													10											
	11													11											
	12													12											
P.M.	1												P.M.	1											
	2													2											
	3													3											
	4													4											
	5													5											
	6													6											
	7													7											
	8													8											
	9													9											
	10													10											
	11													11											
	12													12											

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.
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	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190		H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	190
A.M.	1												A.M.	1											
	2													2											
	3													3											
	4													4											
	5													5											
	6													6											
	7													7											
	8													8											
	9													9											
	10													10											
	11													11											
	12													12											
P.M.	1												P.M.	1											
	2													2											
	3													3											
	4													4											
	5													5											
	6													6											
	7													7											
	8													8											
	9													9											
	10													10											
	11													11											
	12													12											

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.
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From

towards

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	BAROM.	REMARKS	day of	19
A	A.M.	1										
		2										
		3										
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										
	P.M.	1										
		2										
		3										
		4										
		5										
		6										
		7										
		8										
		9										
		10										
		11										
		12										

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon.

	H.	K.	$\frac{1}{2}$ K.	COURSES	WINDS	LEEWAY	Temp. Air	Temp. Water	Barom.	REMARKS	day of	19
A.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											
P.M.	1											
	2											
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											
	12											

Course	Distance	Diff. of Lat.	Departure	Lat. by D.R.	Lat. by Ob.	Variation	Diff. of Lon.	Lon. in.	Lon.

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