

METEOROLOGICAL  
LOG  
FOR 4 MONTHS

59E  
03



SAOIRO DE  
S. A. DE  
ENTRADA

Libro  
for van  
Sept  
Dm



METEOROLOGICAL LOG.

Name of Vessel \_\_\_\_\_ Steam or Sail \_\_\_\_\_ Rig \_\_\_\_\_ Gross Register Tonnage \_\_\_\_\_  
Captain's Name \_\_\_\_\_ Log kept by \_\_\_\_\_

When filled, or nearly full, this log is to be returned, as quickly as possible, to the Meteorological Office, 63, Victoria Street, London, S.W., whence it will be duly acknowledged. Should a considerable interval be likely to occur between successive voyages, owing to the ship being laid up or a similar cause, the log is to be returned without delay.

ADMIRAL BEAUFORT'S SCALE OF WIND FORCE.

0 Calm.			
1 Light air	-	Just sufficient to give steerage way.	
2 Light breeze	-	With which a well-conditioned ship-of-war of Admiral Beaufort's time (1800-1850), with all sail set, would go in smooth water, and "clean full," from	1 to 2 knots.
3 Gentle breeze	-		3 to 4 knots.
4 Moderate breeze	-		5 to 6 knots.
5 Fresh breeze	-		Royals, &c.
6 Strong breeze	-		Single-reefed topsails and topgallant sails.
7 Moderate gale	-	To which she could just carry in chase, "full and by"	Double-reefed topsails, jib, &c.

FOR SHIPS RIGGED WITH DOUBLE TOPSAILS.\*

Topgallant sails.
Topsails, jib, &c.

per topsails and courses.

sails and courses.

in-topsail and reefed foresail.

tions were made to meet the require-  
ble topsails, introduced since Admiral  
me.

Criteria for steamships.

sideration is required for the specif-  
the scale for use on board steamships.  
purpose it is recommended that as  
ity occurs use be made of the equiv-  
ven in Col. 2. Thus, when the ship is  
in a calm at 15 knots, the wind felt  
posed position on board will be a  
reeze, which, according to the table,  
m 4 and 5 on the Beaufort scale, and,  
lar breeze is felt when the ship is  
at 15 knots right before the wind, the  
peed of the wind will be 30 knots,  
6 and 7 on the Beaufort scale,  
to the table of equivalents.  
rtunities occur from time to time for  
g the speed of the wind with the  
the ship. A hand anemometer may  
yed if used judiciously and if proper  
e be made for the motion of the ship.

River.

unimpeded.

ntion required.

Position given as near as poss. every 4 hours. sometimes interpolated from two observed positions.

Mis. Term? N.G. on account of motion of ship affecting pos. of index.  
Temp. When given without a dec. pt. is to the nearest degree, & read closely & is an exact degree, it is logged thus 64.0  
Cloud velocity.

- (0) stationary (1) very slow (2) slow  
(3) moderate (4) fast (5) V. fast.

Cloud Density Indicated by suffixes. 0 1 2 3. Thus 10<sub>3</sub>

- 0 very light cloud  
1 light cloud  
2 moderately heavy cloud  
3 heavy dark cloud.

Sometimes of steaming  
& ~~100~~ Course, co. day

How was the screen containing the dry and wet bulbs situated? Stevenson's double covered screen  
Port side of poop. on top of Taxidermist's lab.

Where was the Meteorological Office barometer located? Skylight of ward room

Please note that a dot (.) is now to be used under any letter to augment its significance; instead of a bar (-).

In the space marked—Log kept by—the names of all those who have assisted in keeping the Log should be noted.

14767-500.

\* If the horizon is indistinct, but still just visible, the symbol "m," for mist, should be used exclusively in the weather column.

LETTERS TO INDICATE THE STATE OF THE WEATHER.

b Blue Sky.	e Wet without rain.	h Hail.	o Overcast.	r Rain.	u Ugly (threatening appearance of Weather).
c Clouds (detached).	f Foggy.	l Lightning.	p Passing Showers.	s Snow.	v Visibility. Objects at a distance unusually visible.
d Drizzling Rain.	g Gloomy.	m Misty.	q Squally.	t Thunder.	w Dew.

NOTE.—A dot (.) under any letter augments its signification: thus, r heavy rain; r very heavy rain; but to express the intensity of the fog the scale should be used. A figure preceding a letter shows how many hours that style of weather had prevailed since last observation: thus, 4 r means four hours' rain; 2½ l means two and a half hours of vivid lightning, &c., &c. It is well to bear in mind that w=dew, but d=drizzle and e=wet without rain; p=passing showers of rain, and q=squalls, but s=snow.

SEA DISTURBANCE SCALE (Provisional. See Explanatory memorandum separately issued).

Scale.	Description.	Height of Waves in feet from crest to trough.	Condition of Surface.
0	Calm	...	Glassy.
1	Smooth	...	Rippled.
2	Slight to moderate	...	Rocks buoy or small boat.
3		...	Furrowed.
4		...	
5	Rough to very rough	...	Much disturbed; deeply furrowed.
6		...	
7	High to very high	...	Rollers with steep fronts.
8		...	
9	Phenomenal	...	Precipitous; towering.
10		...	

NOTE.—The same scale numbers and the corresponding heights from crest to trough may be used for Waves or for Swell, for which separate columns are provided. Care should be taken that the respective directions and amounts of disturbance are entered in their proper columns. If confused, write "Confused" in its respective direction column, stating its chief direction or directions; thus, "Confused N.E. and S.E." "Confused S.W." (14767-24.) Wt. 22539-7196. 500. 11/09. D & S.



Position given as near as poss. every 4 hours. sometimes interpolated from two observed positions.

Min. Therm? N.G. on account of motion of ship affecting pos<sup>n</sup> of index.

Temp. When given without a dec. pt. is to the nearest degree; if read closely & is an exact degree, it is logged thus 64.0

Cloud velocity.

(0) Stationary (1) Very slow (2) Slow  
(3) Moderate (4) Fast (5) V. fast.

Cloud Density Indicated by suffixes. 0 1 2 3. thus 10

0 very light cloud

1 light cloud

2 moderately heavy cloud

3 heavy

Get times of steaming  
& ~~the~~ Course co. day.

How was the season containing the dry and wet  
periods situated?

Where was the Meteorological Office barometer  
located?

Please note that a dot (.) is now to be used  
under any letter to augment its significance  
instead of a bar (—).

In the space marked—Log kept by—the names  
of all those who have assisted in keeping the  
log should be noted.

Form 131.

# METEOROLOGICAL LOG.

Name of Vessel \_\_\_\_\_ Steam or Sail \_\_\_\_\_ Rig \_\_\_\_\_ Gross Register Tonnage \_\_\_\_\_  
Captain's Name \_\_\_\_\_ Log kept by \_\_\_\_\_

When filled, or nearly full, this log is to be returned, as quickly as possible, to the Meteorological Office, 63, Victoria Street, London, S.W., whence it will be duly acknowledged. Should a considerable interval be likely to occur between successive voyages, owing to the ship being laid up or a similar cause, the log is to be returned without delay.

## ADMIRAL BEAUFORT'S SCALE OF WIND FORCE.

0	Calm.				
1	Light air	-	Just sufficient to give steerage way.		
2	Light breeze	-	With which a well-conditioned ship-of-war of 1 to 2 knots.		
3	Gentle breeze	-	Admiral Beaufort's time (1800-1850), with all sail set, would go in smooth water, and "clean full," from - - - - - 3 to 4 knots.		
4	Moderate breeze	-	- - - - - 5 to 6 knots.		
5	Fresh breeze	-	Royals, &c.		FOR SHIPS RIGGED WITH DOUBLE TOPSAILS.*
6	Strong breeze	-	Single-reefed topsails and topgallant sails.		Topgallant sails.
7	Moderate gale	-	To which she could just carry in chase, "full and by"		Topsails, jib, &c.
8	Fresh gale	-	Double-reefed topsails, jib, &c.		Reefed upper topsails and courses.
9	Strong gale	-	Triple-reefed topsails, &c.		Lower topsails and courses.
10	Whole gale	-	Close-reefed topsails and courses.		Lower main-topsail and reefed foresail.
11	Storm	-	With which she could scarcely bear close-reefed main-topsail and reefed foresail.		
12	Hurricane	-	Which would reduce her to storm-stay-sails.		
		-	Which no canvas could withstand.		

\* These modifications were made to meet the requirements of double topsails, introduced since Admiral Beaufort's time.

## ALTERNATIVE SPECIFICATION.

Admiral Beaufort's Numbers.	Description of Wind.	Probable actual velocity of the wind in statute miles per hour.	Probable equivalent pressure in pounds upon a circular disc one square foot in area.	Mode of estimating on board Sailing Vessels.	Criteria for steamships.
0	Calm ... ..	Under 1 ... ..	Less than .01 ... ..	---	Special consideration is required for the specification of the scale for use on board steamship. For this purpose it is recommended that as opportunity occurs use be made of the equivalents given in Col. 2. Thus, when the ship is running in a calm at 15 knots, the wind felt in an exposed position on board will be a moderate breeze, which, according to the table, is between 4 and 5 on the Beaufort scale, and if a similar breeze is felt when the ship is running at 15 knots <i>right before the wind</i> , the actual speed of the wind will be 30 knots, between 6 and 7 on the Beaufort scale, according to the table of equivalents. Other opportunities occur from time to time for comparing the speed of the wind with the speed of the ship. A hand anemometer may be employed if used judiciously and if proper allowance be made for the motion of the ship.
1	Light breeze ... ..	From 1 to 12 inclusive, average about 7 ...	Between 0.01 and 0.4 ...	Sufficient wind for working ship.	
2					
3					
4	Moderate breeze ... ..	" 13 to 24 " " " 19 ...	" .05 " .18 }	Forces most advantageous for sailing with leading wind and all sail drawing.	
5					
6	Strong wind ... ..	" 25 to 38 " " " 32 ...	" .19 " .44 }	Reduction of sail becomes necessary even with a leading wind.	
7					
8	Gale force ... ..	" 39 to 54 " " " 47 ...	" .45 " .89 }	Considerable reduction of sail necessary even with wind quartering.	
9					
10	Storm force... ..	" 55 to 75 " " " 65 ...	" .90 " 1.70 }	Close reefed sail when running; or hove-to under storm sail.	
11					
12	Hurricane ... ..	Above 75 ... ..	More than 1.7 ... ..	No sail can stand even when running.	

## SCALE OF FOG INTENSITY.

Scale.	Name.	On Sea.	On River.
0	No Fog or Mist ... ..	Horizon clear.	
1	Light Fog or Mist* ... ..	Horizon invisible, but lights and landmarks generally visible at working distances.	Objects indistinct, but navigation unimpeded.
2	Moderate Fog ... ..	Lights, passing vessels, and landmarks generally indistinct under a mile. Fog signals are sounded.	Navigation impeded, additional caution required.
3			
4	Thick Fog ... ..	Ships' lights and vessels invisible at 1/4 mile or less ...	Navigation suspended.
5			

\* If the horizon is indistinct, but still just visible, the symbol "m," for mist, should be used exclusively in the weather column.

## LETTERS TO INDICATE THE STATE OF THE WEATHER.

b Blue Sky. e Wet without rain. h Hail. o Overcast. r Rain. u Ugly (threatening appearance of Weather).  
c Clouds (detached). f Foggy. l Lightning. p Passing Showers. s Snow. v Visibility. Objects at a distance unusually visible.  
d Drizzling Rain. g Gloomy. m Misty. q Squally. t Thunder. w Dew. z Haze.

NOTE.—A dot (.) under any letter augments its signification: thus, r heavy rain; r very heavy rain; but to express the intensity of the fog the scale should be used. A figure preceding a letter shows how many hours that style of weather had prevailed since last observation: thus, 4 r means four hours' rain; 2 1/2 l means two and a half hours of vivid lightning, &c., &c. It is well to bear in mind that w=dew, but d=drizzle and e=wet without rain; p=passing showers of rain, and q=squalls, but s=snow.

## SEA DISTURBANCE SCALE (Provisional. See Explanatory memorandum separately issued).

Scale.	Description.	Height of Waves in feet from crest to trough.	Condition of Surface.
0	Calm ... ..	...	Glassy.
1	Smooth ... ..	...	Rippled.
2			
3			
4	Slight to moderate ... ..	Under 5 feet ... ..	Rocks buoy or small boat. Furrowed.
5	Rough to very rough ... ..	5 to 10 feet ... ..	Much disturbed; deeply furrowed.
6			
7			
8	High to very high ... ..	11 to 15 feet ... ..	Rollers with steep fronts.
9	Phenomenal ... ..	16 to 35 feet ... ..	
10		36 feet and above ... ..	Precipitous; towering.

NOTE.—The same scale numbers and the corresponding heights from crest to trough may be used for Waves or for Swell, for which separate columns are provided. Care should be taken that the respective directions and amounts of disturbance are entered in their proper columns. If confused, write "Confused" in its respective direction column, stating its chief direction or directions; thus, "Confused N.E. and S.E.," "Confused S.W."



# Meteorological Log kept on board P. & O. Steamship "Cina." *N. Perna Nova*

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.* No. 361		Thermometers.		
Year 1902.						Each four hours.					Height of Cistern above Sea 39 feet.		Dry	Wet	
Month <i>VI. June</i>													Bulb.	Bulb.	
Day, Civil Time.	Hour.	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	True Course.	Distance by Log.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force 0 to 12.	Uncorrected Reading.	Att. Therm.	No. 5237	No. 1931
<i>25</i> <i>16.</i>	4	<i>N</i>		<i>W</i>				<i>Max. Therm.</i>							
	8							<i>No. 2059.</i>		True		In Chart Room in good			In the screen
	NOON									throughout the voyage.		position. Ship's Mercurial given for comparison each day at noon below the M.O. reading.			which is fixed on the after-side of the Chart Room well protected
	4	<i>49</i>	<i>55'</i>	<i>6</i>	<i>46</i>	Various				S.S.W.	4	30-00	62		from sun, rain, and spray.
	8	<i>-</i>	<i>35</i>	<i>7</i>	<i>26</i>	by				S.S.W.	3	30-02	62	63	59
	MIDT.	<i>49</i>	<i>15</i>	<i>8</i>	<i>6</i>	Coast Line.				S.S.E.	4	29-98	62	62	60
<i>26</i>	4	<i>48</i>	<i>58</i>			S. 87° W. Various.	14 12			S.	4	29-76	60	60	59
	8	<i>48</i>	<i>40</i>			S. 18 W. S. 62 W. S. 69 W.	4 10 51	19° W.	S. 86° W.	S.	5	29-61	61	60	58
	NOON	<i>49 40 N. 49 40 N.</i>	<i>4 40 W. 4 29 W.</i>	<i>4 40 W. 4 29 W.</i>	<i>4 29 W.</i>	S. 68 W.	61			S. S.W.	6	29-48 (29-60)	62 (62)	63	60
	4					W. 7 mls.				S. S.W.	7	29-52	62	61	60
	8					S. 25 W.	48			S.W.	8	29-62	61	60	59
	MIDT.					S. 25 W. S. 28 W.	48 49	19° W.	S. 47° W.	W.S.W. W.	8	29-72 29-80	62 61	60	58
<i>27</i>	4					S. 28 W.	51			W. W.	8	29-89 29-94	60 60	59	56
	8					S. 28 W.	54	19° W.	S. 47° W.	W.	7	30-10	63	63	59
	NOON	<i>45 15 N. 45 7 N.</i>	<i>7 30 W. 8 4 W.</i>	<i>7 30 W. 8 4 W.</i>	<i>8 4 W.</i>	S. 28 W.	60			W.S.W. N.W.byW.	6	30-17 30-26 (30-40)	65 65 (64)	65	60
	4					S. 35 W.	53			N.W.byW.	6	30-34	65	64	59
	8					S. 35 W.	58	20° W.	S. 55° W.	N.W.byW.	4	30-41	63	62	58
	MIDT.					S. 35 W. S. 1 W.	46 13			Calm N.E.byN.	0 3	30-40	63	61	59
<i>28</i>	4					S. 1 W.	60	19° W.	S. 20° W.	N.E. N.byE.	4 5	30-32	62	61	57
	8					S. 1 W.	60			N.N.W. N.N.E.	6 4	30-29 30-28 (30-39)	67 68 (66)	68	64
	NOON	<i>39 47 N. 39 47 N.</i>	<i>9 32 W. 9 30 W.</i>	<i>9 32 W. 9 30 W.</i>	<i>9 30 W.</i>	S. 1 W. S. 8 E.	5 62			N.E.	4	30-24	67	72	67
	4					S. 8 E. S. 7 W. S. 12 E.	16 42 2			N.E.	4	30-21	69	70	66
	8					S. 12 E.	62			N.byW. N.W.byW.	4 3	30-20	68		
	MIDT.					S. 42 E. S. 71 E.	12 19	17° W.	S. 54° E.	Calm	0	30-20	66	66	62
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage, noting whether it is mercurial or aneroid  
 † In the Form of Log now issued separate columns are given for the Names of Upper and Lower Clouds.

Captain T. S. Angus,

from London

to Australia.

Hour.	Clouds.†		Weather.		Sea Surface.						Remarks.	
	When Lower Clouds do not move with the Wind, give the Direction they come from in the "Remarks." (For Plates see "Instructions.")		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.		
	Names.	Prop. of Sky Clouded. 0 to 10.			Direction from.	Dis-turb-ance. 0 to 10	Direction from.	Dis-turb-ance. 0 to 10				
											Also record when Confused.	
Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)												
4												
8												
NOON												
4	Cum.-s.	6	cb			—	0	—	0	—		1:33 Left Tilbury.
												3:7 Passed Nore L.V.
8	Cum.	8	c			—	0	—	0	—		4:35 Passed Tongue. 6'2. East Goodwin. French coast and distant objects remarkably clear and distinct. Rainy appearance to W. and N.W.
												10:30 Passed Beachy Head.
MIDT.	Cum.   Nim.	10	or			—	0	—	0	—		
4	Cum.   Nim.	3	bed			S.	3	—	0	57	3:7	Rainy appearance. St. Catherine's Light N. 25° W., 4 miles. Sky clearing.
8	Cum.-s.	7	c			S.S.W.	4	—	0	58		
NOON	Cum.-s.	7	cm	1		S.S.W.	5	—	0	58	29	Wind and sea increasing.
4	Cum.-s.	10	or			S.W.	6	W.	4	58		Steep head sea. Ship pitching and rolling heavily.
8	Cum.-s. Nim.	10	op			S.W.	7					
						S.W.	6	W.	5	58	8:0	Ushant Light N. 87° E., 10 miles. Cum.-s. rapidly from S.W.
MIDT.	Cum.	4	bcpq			S.W.	7	W.	5	60		Detached cum. moderately from Westward.
4	Cum.-s. Cum.	4	bcp			W.	5	N.W.	3	60		Cum. from S.W. slowly. Cum. round horizon.
8	Cir. Cum. Cum.-s.	3	bc			W.	5	N.W.	3	61		Cir. from N.W.
NOON	Cum.	4	bc			W.	4	—	—	64	28	
4	Cum.	3	bc			W.N.W.	4	N.W.	3	63		
8	Cir.-c. Cum.	2	bc			W.N.W.	4	N.	3	61	8:0	Villano Light S. 16° W. Cir.-c. from N.E.
MIDT.	Cum.	1	bw			W.	3	Confused	4	60	11:40	Finisterre S. 89° W., 16 miles. Stars very clear and bright.
4	—	0	bw			N.E.	3	W. and N.W.	3	62		
8	—	0	b			N.N.E.	3	W. and N.W.	1	66		
NOON	—	0	b			N.N.E.	3	N.W.	3	67	27	
4	—	0	b			N.N.E.	3	N.N.W.	4	67		
8	—	0	bm			N.N.W.	3	—	—	67	10:15	St. Vincent Light N. 48° E., 3 miles.
MIDT.	—	0	bw			—	0	W.	2	65		
2a	17	18	19	19a	20	21	20a	21a	22	23	24	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.  
 14767



# Meteorological Log kept on board *St. Peter Nova Rps.*

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No. <i>Adie 1165</i>		Thermometers. <i>Hep. &amp; Lamb.</i>			
Year <i>1910</i>	Month <i>June</i>	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined. <i>Max. Error</i>	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea <i>9 1/2</i> feet.		Uncorrected Reading.	Att. Therm.	Dry Bulb. No. <i>8395</i>	Wet Bulb. No. <i>8396</i>
Day, Civil Time.	Hour.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.										
<i>16</i>	<i>4</i>							<i>2059</i>									
	<i>8</i>																
	NOON	{ Current in last hours }				{ mils. }											
	<i>4</i>	<i>49</i>	<i>55</i>	<i>6</i>	<i>46</i>					<i>ESE</i>	<i>4</i>	<i>30.32</i>	<i>59</i>			<i>56.5</i>	<i>53.5</i>
	<i>8</i>	<i>—</i>	<i>35</i>	<i>7</i>	<i>26</i>			<i>1900</i>		<i>—</i>	<i>4</i>	<i>30.26</i>	<i>58</i>			<i>56.5</i>	<i>54.0</i>
	MIDT.	<i>—</i>	<i>15</i>	<i>8</i>	<i>6</i>					<i>—</i>	<i>5</i>	<i>30.23</i>	<i>59</i>			<i>57</i>	<i>55</i>
<i>17<sup>th</sup></i>	<i>4</i>	<i>48</i>	<i>58</i>	<i>8</i>	<i>42</i>					<i>SE</i>	<i>5</i>	<i>30.19</i>	<i>58</i>			<i>57.5</i>	<i>56</i>
	<i>8</i>		<i>40</i>	<i>9</i>	<i>18</i>					<i>SE</i>	<i>4</i>	<i>30.20</i>	<i>63</i>			<i>57.0</i>	<i>57.0</i>
	NOON	{ Current in last hours }				{ mils. }				<i>SE</i>	<i>3.4</i>	<i>30.24</i>	<i>70</i>			<i>61.8</i>	<i>57.8</i>
	<i>4</i>	<i>48</i>	<i>7</i>	<i>10</i>	<i>41</i>					<i>S.E.</i>	<i>3</i>	<i>30.24</i>	<i>70</i>			<i>61.5</i>	<i>57.5</i>
	<i>8</i>	<i>47</i>	<i>47</i>	<i>11</i>	<i>05</i>					<i>SW</i>	<i>0.61</i>	<i>30.28</i>	<i>66</i>			<i>67.6</i>	<i>62</i>
	MIDT.	<i>47</i>	<i>26</i>	<i>11</i>	<i>14</i>					<i>SE</i>	<i>0.1</i>	<i>30.29</i>	<i>66</i>			<i>65</i>	<i>61</i>
	<i>4</i>																
	<i>8</i>																
	NOON	{ Current in last hours }				{ mils. }											
	<i>4</i>																
	<i>8</i>																
	MIDT.																
<i>18<sup>th</sup></i>	<i>4</i>	<i>47</i>	<i>5</i>	<i>11 24</i>						<i>SE.</i>	<i>1</i>	<i>30.32</i>	<i>65</i>			<i>65</i>	<i>60.5</i>
	<i>8</i>	<i>46</i>	<i>43</i>	<i>4 33</i>				<i>67.8</i>		<i>SE.</i>	<i>1</i>	<i>.36</i>	<i>68</i>			<i>62</i>	<i>60.4</i>
	NOON	{ Current in last hours }				{ mils. }				<i>SE</i>	<i>0.1</i>	<i>.39</i>	<i>73</i>			<i>70.2</i>	<i>64</i>
	<i>4</i>	<i>45</i>	<i>58</i>	<i>11 55</i>						<i>Caln.</i>		<i>.39</i>	<i>73</i>			<i>71.0</i>	<i>64.2</i>
	<i>8</i>	<i>—</i>	<i>35</i>	<i>12 5</i>						<i>E.</i>	<i>0.1</i>	<i>.37</i>	<i>68</i>			<i>65.0</i>	<i>62.0</i>
	MIDT.	<i>—</i>	<i>10</i>	<i>12 16</i>						<i>E.S.E.</i>	<i>1</i>	<i>.32</i>	<i>67</i>			<i>63</i>	<i>60</i>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

# Captain *H. E. Evans* from *England* to *Christchurch N.Z.*

Hour.	Clouds.		Weather.		Sea Surface.				Remarks.						
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)			
	Names.				Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.							
	Upper.	Lower.			Prop. of Sky Clouded. 0 to 10.	Also record when Confused.									
4															
8															
NOON											Keeping S.W.T.				
4	low Cir. C.	Cum. Str.	7	bc.	N.E.	4	S.E.	4	5		4. Aport of haze over most of sky.				
8	Cir. C.	Str.	1	b.z.	E.S.E.	4	E.S.E.	4			8.40 Very low slight mackerel sky to N.				
MIDT.	Cir.		3	bc.	E.S.E.	4	E.S.E.	4			9.25 Mackerel sky disappeared. Wind in squalls increasing in force.				
4	Cir. S.	Str.	9	o.c.	S.E.	4	S.E.	4	58.5		4. AM. Wind slightly unsteady in force & dirn.				
8	low Cir. S.	Cum. Str.	9	Cm.	S.E.	4	S.E.	4	56.8		8.0 Sun shining through clouds.				
NOON		Cum. Str.	9	Cm.	S.E.	3	S.W.	4	57.5		9.0 Wind easing.				
4	Cir. C.	Cum. Str.	5	b.c.m.	S.S.E.	3	N.	4	60.5		10.0 Put clock back 20 mins.				
8	Cir. C.	Cum. Str.	5	bc.		1	Cross	4	60.0		11.00 Swell from 3 dirns E.S.E. (main), S.E. & S.W. Some small detached ragged Cum. also low and from S.W. (3)				
MIDT.			10	0		1	Cross	4	60.2		4.0 * Swell from 3 dirns E.S.E. S.S.E. (main) & S.W.				
4											7.30 Sun set behind very heavy black Cum. & c. cloud stretching for over 90° across western horizon.				
8											8.00 Wind dropped calm.				
NOON											To Eastward stratus low Cir. C. fine weather looking.				
4											8.00 Swell SW & S.E. The western heavens covered by a thick black rain cloud moving from S.W. (2) To Eastward some windy.				
8											10.00 Cumulus & the higher clouds; with stratus above S.E. horizon.				
NOON											8.10 Completely clouded over. Cum. S. 10.				
4											9.30. occasional specks of phosphor in ship's wake.				
8											10.0 Lie of strata S.W. thin clouds.				
MIDT.											* Put clock back 20' Time 40' midnight. Cross swell S.E. & S. slow on S.W.T.				
4											3.45 Sky overcast. low lying streak of light on horizon.				
8	low Cir. C.	Str.	5	bc.		1	Cross	5	61.8	25	8 Swell crossed by lesser one from S.				
NOON		Cum	9	C		0	W.S.	5	63.4	25	10.0 Clocks back 8 mins.				
4		Cum	9	C		0	W.S.	5	64.2		4 PM. Sun generally visible through clouds.				
8		Cum	8	C		0	W.N.	5	63.4		5.30 Sky 1/2 cleared light fine looking.				
MIDT.			9	C		0	W.S.	4	62.5		Cumulus prop <sup>3</sup> 5				
2a			17		18	19	19a	20	21	20a	21a	22	23	24	25



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.	Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.* No.	Thermometers.	
Year	1910	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if variable, or subject to Compass Error, or only to Variation.	Force, 0 to 12.	Height of Cistern above Sea, feet.	Dry Bulb.
Month	June	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.			Uncorrected Reading.	Att. Therm.	Wet Bulb.
Day.	Civil Time.	Hour.										No.
19	4		44.45	12	27		Therme		SE	3	30.29	64
	8		44.20	12	37		71		SE	1.2	29	68
	NOON		43.54	12	48				NW	3	26	68
	4		43	28	57		19W.		N	3	26	66
	8		43	03	07				NW	3	28	65
	MIDT.		42	37	16				NW	1.2	29	65
20	4		42	12	26				W	3	30.28	65
	8		41	46	35		68		N	3	33	67
	NOON		41.20	13	45		68		N	3	34	69
	4		40	52	53				N	3.4	35	70
	8		40	23	1				N	3.4	37	67
	MIDT.		39	55	14				N	4	36	66
21	4		39	27	14		68		NW	3.4	30.32	66
	8		39	2	14		68		NW	3.4	35	68
	NOON		38.37	14	43				NW	4	33	70
	4		38	07	14				NW	3.4	32	70
	8		37	37	1				NW	2.3	33	68
	MIDT.		37	10	14				NW	3	32	66
22	4		36	42	14						30.27	66
	8		36	15	15		69				31	68
	NOON		35.47	15	31						32	68
	4		35	19	15		18W.				31	70
	8		34	51	15						34	69
	MIDT.		34	22	16						40	69

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Hour.	Clouds.		Weather.		Sea Surface.				Remarks.			
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remarks.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts, Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Names.				Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
	Upper.	Lower.										
					Also record when Confused.							
4			0m		SE 1/2 E	2	W 1/2 S	5	62			4.0 Clocks 50' slow on G.M.T.
8		Cum	8	Cm.		1	W 1/2 N	5	62.4	25		4.15 slight cross swell from N or N.W.
NOON		Cum	5	Cm.	N 1/2 W	2	W 1/2 N	5	63.8	45		7.0 Cum 1.10
4		Cum	10	OC	N 1/2 E	2	W 1/2 N	5	63.2			7.30 Appearance of fog to E.
8		Cum	10	OCm	N 1/2 E	3	W 1/2 N	5	63.1			11.30 Long W swell & short N 1/2 E Confused.
MIDT.		Cum	8	OCd			W 1/2 N	5	63			sky lower clearing, slight drizzle Cl. 8
4		Cum	10	OC			W 1/2 N	4	63.2			2.00 wind light clear sky.
8		Cum	1	b	N 1/2 E	3	W 1/2 N	4	63.1	24.5		2.30 slight drizzle.
NOON		Cum	5	bc.	N 1/2 E	3	W 1/2 N	4	64	24.5		3.30 Cum 1.9.
4	Low cloudy Cir. 3. Trans. Cir.		3	bcz	N 1/2 E	3	W 1/2 N	4	64.1			6.0 Wind N 3. sky clearing.
8		Cum	10	bcz.	N 1/2 E	3	N 1/2 W	4	63.3			9.30 Clock back 10 mins.
MIDT.	Cir		4	bc.	N 1/2 E	4	N 1/2 E	4	63.			6.30 P.M. Cum/Cir/Cir 5 very windy cirrus
4		Cum	5	bc.	N 1/2 E	3	N 1/2 W	4	64.0			8.0 Slight corona round moon. a sort of high mist forming
8	Cir. 1. Cum.		4	bc.	N 1/2 E	3	N 1/2 W	3	63.5	25		9.30 am. Clocks put to 1.2. 2nd slow on G.M.T.
NOON	Cir.	Cum	2	bcz	N 1/2 E	3	N	3	64.0	24.5		2.00 wind varied to N 1/2 E. sky suddenly cleared from N.
4		Cum	4	bcz	N 1/2 E	3	N 1/2 W	4	64.0			8.0 nearly all clouds detached Cum. now slight haze over all sky.
8		Cum	3	bcz.	N 1/2 E	2	N 1/2 W	3				
MIDT.		Cum	3	bc.	N 1/2 E	3	N 1/2 E	3	63.8			
4		Stc	10	0	N 1/2 E	2	N		64			4.45 am. sky becomes overcast.
8		Cum	10	OC.	N 1/2 E	1	N 1/2 W	3	63.8			5.0 Cum 9.
NOON		Cum	5	bc.	N 1/2 E	2	N 1/2 W	3	64.9			6.40 Fz + light rain 15'
4		Cum	9	c	N 1/2 E	3	N 1/2 E	3	65.0			11.0 Clouds breaking
8		Cum	10	OC.	N 1/2 E	3	N 1/2 E	4	65.5			2.00 Cum/Cum 10.
MIDT.		Thin	10	OCb.	N 1/2 E	4	N 1/2 E	4	67			6.5. Cum/Cum 2/Cum 2 9
2a	17	18	19	19a	20	21	20a	21a	22	23	24	8.0 trace of phosphorescence in sea water in bucket.
												11.30 Sharp shower of rain from N

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*		Thermometers.		
		N.		W.							No.				
Year	19 10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.
Month	June.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Day.	Civil Time.	Hour.													
23	4	33	54	16	25			18°W.		N <sup>E</sup>	5	30.34	68	66	63
	8	33	25	16	38			71		N <sup>E</sup>	4.5	30.37	72	67.5	61.4
	NOON	32	56.	16	37					N <sup>E</sup>	4	30.40	76	70.3	63.5
	4	Current in last hours mls.								E <sup>N</sup>	3.	30.33	70	68	61.5
	8														
	MIDT.	At Funchal 23 <sup>rd</sup> to 26.													
26	4														
	8														
	NOON	32	25	17	1			next		N <sup>S</sup>	2.3	30.27	75	71.2	66.5
	4	32	4	17	13					E <sup>N</sup>	5	30.23	69	67.0	64.0
	8	31	44	17	26					E <sup>NE</sup>	4			67.5	64.0
	MIDT.	31	23.	17	38					E <sup>NE</sup>	4.5	30.27	67	67	64
27	4	31	03	17	50					N <sup>E</sup> E	5	30.27	68	67	-
	8	30	42	18	02			75		E <sup>NE</sup>	5	26	68	67.7	-
	NOON	30.21		18.14						E <sup>NE</sup>	4	27	70	68.0	65.0
	4	30	0	18	28					E <sup>NE</sup>	5	22	69	68.0	65.0
	8	29.38	38	18	42					E <sup>NE</sup>	5	23	69	67.6	63.5
	MIDT.	29.17	17	18	56					E <sup>NE</sup>	4.5	23	68	67	64
28	4	28.58	55	19	09					E <sup>NE</sup>	5	30.21	67	66	62.2
	8	28	34	19	23			68		E <sup>NE</sup>	4	25	68	67.3	63.6
	NOON	28	13	19	37					E <sup>NE</sup>	4	27	72	68.0	63.2
	4	27	58	19	47					E <sup>NE</sup>	5	22	73	68.6	65.8
	8	27	40	20	00					E <sup>NE</sup>	3	25	71	68.0	64.9
	MIDT.	27	33	20	06					Calm		24	69	67	65
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

## from

## to

Hour.	Clouds.		Weather.	Sea Surface.						Spec. Grav. by No.	Remarks.	
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			Waves.		Swell.		Temp. by No.				
	Names.	Prop. of Sky Clouded. 0 to 10.		According to Beaufort Notation.	Direction from.	Disturbance. 0 to 10.	Direction from.		Disturbance. 0 to 10.			
												Also record when Confused.
Upper.	Lower.									Time of Remark.		
4	He	10	opd	NE	3	NE	4	67	7.0	4.0	Showers of rain passing rapidly across at intervals	
8	Cum s	10	oc	NE	3	NE	4	66.5	25	Noon	Sun shining through clouds most of the time.	
NOON	Cum s.	9	C	NE	3	NE	4	66.2	25	2.0 P.M.	Rain squall from N.E.	
4	Cum s.	3	bc.							5.0	Anchored off Funchal.	
8											Changed Hydrometer to 11°. 2268.	
MIDT.											Clocks 1 <sup>h</sup> 10' slow on G.M.T.	
4									70 23.68 ↓	10.0 A.M.	Start for Simon's Bay	
8										12.25 P.M.	Cum s. & Wind eased to 11°	
NOON	Cum s	5		NE	2	NE	3	66.6	24	2.0	Wind increased & veered to E.N.E.	
	Cum									2.55	Cum s 4.	
	Det. Cum									6.40	Sun behind S.W. cloud; heavy bank of Cum s. to S.E.	
4	Cum s.	2		NE	4	NE	3	67.8		7.10	Cum s. 9.	
8	Cum s	7	C							10.15	Slight phosphorescence in water	
MIDT.	Cum s.	10	oc.	ENE	4	NE	4	67.8		Midnight	Break in clouds to N.E. wind squally. Wind freshening.	
4	Cum s.	9	oc	NE	4.5	NE	4	67.8		7.0 A.M.	Slight drizzle for a few minutes	
8	Cum s.	10	oc	ENE	4	ENE	5	67.8		9.30	Clocks put back 5' (1 <sup>h</sup> 15' slow on G.M.T.)	
NOON	Cum s.	10	oc	ENE	4	E	4	68.2	26.4	P.M.		
4	Cum s.	9	oc	ENE	4	ENE	4	68.5	26.4	4.0	Sun showing through from time to time	
8	Cum s.	10	oc	ENE	4.5	ENE	4	68.0		6.0	Wind eased to 4 Cum s 10,	
MIDT.	Cum s.	10	og	ENE	4	ENE	4	68.2		8.0	A trace of phosphorescence in wash	
4	Cum s	8	C	ENE	4	ENE	3	68		Midnight	Break in clouds to N.E. - wind squally	
8	Cum s.	7	C	ENE	4	ENE	4	68.2	27.			
NOON	Cum s.	6	C	ENE	3	NE	4	69.5	27.2	4.0	Sky at times clear, wind slightly unsteady in force.	
4	Cum s	5	b.c.z.	NE	5	ENE	5	69.8		5.15	Sunrise Cum s. 6.	
8	Cum s.	8	C							9.0	Put clocks back 6' to 1 <sup>h</sup> 21' slow on G.M.T.	
MIDT.	Longon	1								Noon	Clouds are light	
2a	17	18	19	19a	20	21	20a	21a	22	23	24	11.0 Clouds gone. Flat Calm. Swell from N.E.

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.	
Year	19	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined. <i>Max. Ther...</i>	By same Compass as Wind.	Direction, State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.
Month	<i>June</i>	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Day.	Civil Time.	Hour.													
29	4	27	25	20	11			18°W.	<i>obsd at</i>	NE	1.2	30.23	69	68	64.2
	8	27	18	20	16			71	9 am	NE	2.3	29	75	71.0	65.7
	NOON	27	10	20	21	Current in last hours mls.			12.30	E <sup>6</sup> N	2.3	28	77	70.7	67.0
	4	27	0	20	27				5.0	E <sup>6</sup> NE	1.2	22	72	69.6	65.9
	8	26	50	20	33					E <sup>6</sup> NE	2	24	70	68.8	65.2
	MIDT.	26	41	20	37					NE	1	25	72	70	66
30	4	26	32	20	45					NE	3	30.19	71	69	64.2
	8	26	27	20	48			73		NE <sup>6</sup>	1	23	75	70.9	65.7
	NOON	26	17	20	54	Current in last hours mls.				E <sup>6</sup> NE	1.2	24	73	73.0	66.0
	4	26	10	20	57					NE <sup>6</sup>	0.1	20	77	72.8	66.2
	8	26	3	21	01					NE <sup>6</sup>	1	20	74	70.3	64.9
	MIDT.	25	52	21	08					NE <sup>6</sup>	3	19	72	69	64
July 1	4	25	40	21	16			18°W.		NE	3	30.14	72	70	64.3
	8	25	29	21	24			74	<i>obsd at 9</i>	E <sup>6</sup> NE	3	19	75	71.3	65
	NOON	25	18	21	32	Current in last hours mls.				E <sup>6</sup> N	3	18	75	71.6	65.3
	4	25	07	21	38					NE	3	16	76	71.5	66.2
	8	24	55	21	45					NE	3	19	76	70.6	
	MIDT.	24	43	21	51					NE <sup>6</sup> E	3	18	73	71	
2	4	24	31	21	58					NE	3-4	30.17	71	70	
	8	24	20	22	5			72	<i>obsd at 8.30</i>	NE	3	22	75	71.2	
	NOON	24	8	22	13	Current in last hours mls.				NE	3-4	22	77	71.6	66.4
	4	23	52	22	20					NE	3-4	18	76	72.0	66.9
	8	23	35	22	28					NE	4	19	77	71.0	67.2
	MIDT.	23	19	22	35					NE <sup>6</sup> E	5	19	73	70	67
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Hour.	Clouds.		Weather.		Sea Surface.				Remarks.			
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Names.				Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
	Upper.	Lower.										
					Also record when Confused.				8392	2268		
4		Cum.s.	8	C	NE <sup>5</sup>	2	ENE <sup>3</sup>	3	70			2 AM. Light breeze from N.E.
8		Cum.s.	4	b.c.	NE <sup>6</sup>	2	ENE <sup>4</sup>	4	70.3	26.8		6.0 Cum/Cum.s/Cum.y. Showers in vicinity
NOON		Cum										8.5 Cloud increased to 2-3.
		Cum.s.	2	b	ENE <sup>2</sup>	2	ENE <sup>3</sup>	3	71.4			11.0 Clouds back 2 mins to 1° 23' slow on Gulf.
4		Cum.s.	8	C	ENE <sup>2</sup>	2	ENE <sup>3</sup>	3	70.7			12.30 P.M. Clouds round horizon only.
8		Cum.s.	9	C			ENE <sup>4</sup>	3				1. watch Corona round moon.
MIDT.		Cum.s.	6	C	NE <sup>6</sup>	2	ENE <sup>3</sup>	3	71.8			10.30 Sky overcast
												11.45 Sky clearing - a few nimbus clouds to NE.
4		Cum.s.	7	C	NE <sup>6</sup>	2			70			ALL 1.30 Gentle breeze from NNE
8		Cum.s.	8	C		1	E <sup>6</sup> N	3	70.6	27.2		10.30 wind force 2-3 11.45 W force 1-2.
NOON		Cum	2	b		1	E <sup>6</sup> N	3	71.2			11.30 Clouds back 3". 1° 26' slow on Gulf.
4		Cum.s.	8	C		1	E <sup>6</sup> N	3	72.1			7 P.M. sunset Cum.s. 10.
8		Cum.s.	10	O.C.		1	ENE <sup>6</sup>	3	70.3			7.15-7.45 wind NNE <sup>6</sup> 2-3.
MIDT.		Cum.s.	10	O.C.	NE <sup>6</sup>	3	ENE <sup>3</sup>	3	70.8			4.0 Sky cleared. Cum.s. 3.
4		Cum.s.	8	C	NE <sup>6</sup>	2	ENE <sup>3</sup>	3	71			9.50 Sky clouded Cum.s. 6.
8		Cum.s.	7	C	ENE <sup>2</sup>	2	ENE <sup>3</sup>	3	70.8	27.0		8.30 Wind from NE. 16.2
NOON		Cum	2	b	ENE <sup>2</sup>	2	ENE <sup>3</sup>	3	71.0			10.30 wind veered to NE. 1-2
4		Cum	2	b.c.	NE <sup>6</sup>	2	E	3	71.8			11.0 wind increased to 3. Clouds 10.
8		Cum.s.	4	b.c.	NE <sup>6</sup>	2	E <sup>6</sup>	3	71.6			4.00 AM. Wind unsteady in direction
MIDT.		Cum	2	b.c.	NE <sup>6</sup>	2	ENE <sup>3</sup>	3	71.3			4.20 slight Corona round moon.
4		Cum.s.	3	b.c.	NE <sup>6</sup>	2	ENE <sup>3</sup>	3	71.1			8. wind 2-3 ENE <sup>6</sup> .
8		Cum.s.	6	C	NE <sup>6</sup>	3	ENE <sup>3</sup>	3	70.9	26.2		9. clocks back 3 m.
NOON		Cum	1	b	NE <sup>6</sup>	3	ENE <sup>3</sup>	3		26.1		10 Sky cleared Cum.s. 10. 10.30. Cum.s. 7.
4		Cum.s.	1/4	b.z.	NE <sup>6</sup>	3	NE <sup>6</sup> E	3	72.1			11.45 Cum/Cum.s. 7.2. 12.45 P.M. Cum.s. 7.
8			0	b	NE <sup>6</sup>	3	NE <sup>6</sup>	3	72.0			3.20 Cum s/Str. 2. round horizon b.z.
MIDT.		Cum.s.	5	b.c.z.	NE <sup>6</sup>	4	NE <sup>6</sup>	4	71.8			6.0 Cum/NE 2. 16.30 Cum.s. 5. The sun. str. forming rapidly & then moving from NE. wind NE <sup>6</sup> 2.
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*		Thermometers.		
Year 19 10		Observed.		Dead Reckoning.		Observed.		Dead Reckoning.		Each four hours.		Height of Cistern		Dry Wet	
Month July												above Sea. feet.		Bulb. Bulb.	
Day, Civil Time.		Hour.										Uncorrected Reading.		No. No.	



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*		Thermometers.			
Year 1910		Observed.		Observed.		Each four hours.		May Therm. Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.	
Month July		Dead Reckoning.		Dead Reckoning.		True Course.	Distance by Log.					Uncorrected Reading.				Att. Therm.
Day, Civil Time.	Hour.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.														
6 <sup>th</sup>	4	17	45	25	30			19°W.		ENE <sup>g</sup>	4	30.13	72	71.5	68.2	
	8	17	27	25	38			73.		E <sup>6</sup> N	3-4	18	72	71.2	68.8	
	NOON	17	8	25	42					NE <sup>6</sup> E	4	17	74	72.9	69.6	
	4	16	53	25	39					NE	4	12	74	73.0	69.9	
	8	16	39	25	37					NE	2-3	16	74	73.0	70.1	
	MIDT.	16	25	25	34					E <sup>6</sup> N	01	16	74	73	70	
7 <sup>th</sup>	4	16	11	25	32					E <sup>5</sup> S	4	30.09	72	72.1	68.8	
	8	15	54	25	28			73.	1620 04	NE <sup>6</sup> N	3-4	14	75	73.2	70.0	
	NOON	15	38	25	24					NE	3	13	77	74.1	68.5	
	4	15	25	25	22					NE	2	07	81	74.3	69.4	
	8	15	12	25	20					NE <sup>6</sup> E	3	11	75	73.9	70.1	
	MIDT.	15	4	25	18					ENE <sup>g</sup>	1.	11	75	74	69	
8 <sup>th</sup>	4	14	56	25	16					E <sup>g</sup>	2.	30.08	74	73.7	69	
	8	14	26	25	12			76.	1620 09	NE <sup>6</sup> N	3.	09	76	75.0	70.2	
	NOON	13	56	25	07					NNE	3	07	80	75.9	70.4	
	4	13	30	25	02					NNE	2-3	02	81	76.8	71.1	
	8	13	04	24	57					N <sup>6</sup> E	2-3	05	79	76.3	70.2	
	MIDT.	12	38	24	52					Calu	0	05	77	76	69.8	
9 <sup>th</sup>	4	12	12	24	47					Calu.		30.01		76.7	70.8	
	8	11	46	24	42			78		N	3-4	04		77.6	70.8	
	NOON	11	20	24	37					N	3	04		80.1	77.9	
	4	10	56	24	34					NNE	3-4	01		79.0	72.8	
	8	10	33	24	30					S <sup>6</sup> W	3-4	06		78.0	74.5	
	MIDT.	10	9	24	27					N <sup>g</sup>	1.	02		75.8	73.2	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.		Waves.		Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)	
Hour.		Fog Intensity.		Swell.		Time of Remark.	
Names.		Direction from.		Direction from.		Temp. by No.	
Upper.		Lower.		Also record when Confused.			
4		Cum s. 10		ENE 3. ENE 4. 72.1		4 AM Inland Corair at time.	
8		Cum s. 10. ocgd.		ENE 3. ENE 4. 72.2		4:30 Wind eased to 3 ENE 4.	
NOON		Cum s. 10. oc.		NE 4. ENE 4. 73.9		8:00 slight drizzle at times	
4		Cum s. 10. oc.		NE 3. NE 4. 72.9		10:30 Clouds breaking sun showing Cum s. 10. oc.	
8		Cum s. 10. oc.		NE 2. NE 3.		5 PM Wind eased to 3-4	
MIDT.		Cum s. 3. bcx.		ENE 1. ENE 3. 73.		5:45 Wind eased to 3	
4		Cum s. 10. oc.		ENE 3. ENE 4. 72.9		6:30 Wind puffy force 1 to 3, near dir. NE 4.	
8		Cum s. 10. oc.		NE 2. NE 3.		8:00 Wind steadier in force & direction	
MIDT.		Cum s. 3. bcx.		ENE 1. ENE 3. 73.			
4		Cum s. 10. oc.		ENE 3. ENE 4. 76.		4 AM July 8.	
8		Cum s. 10. oc.		NE 3. NE 3. 76.7		1 PM A counter swell beginning from south.	
NOON		Cum s. 3. bcx.		NE 3. NE 4. 77.0		4:00 High swell, as well as NE 4. One appearance of rain to W.	
4		Cum s. 8. c.		NE 2. NE 3. 77.1		8:00 Cum s. 10	
8		Cum s. 4. bcx.				Midn. Much phosphorescence. Wind light & variable during the first watch (8-12 PM).	
MIDT.		Cum s. 9. cx.					
4		Cum s. 0. b.		E 3. ENE 5. 73.8		1:45 AM Wind veered to E by S. increased 4-5	
8		Cum s. 9. c.		NE 3. NE 4. 74.1		sky cleared.	
NOON		Cum s. 8. cx.		NE 3. NE 4. 74.6		9:00 sky clears quickly, clouds over, & again clear	
4		Cum s. 5. bcx.		NE 2. NE 3. 74.5		5:15 PM Wind increased to 3-4.	
8		Cum s. 3. bc.		NE 2. NE 3. 75.5		5:30 Cum s. 8 with a suggestion of cirrus above	
MIDT.		Cum s. 5. bc.		ENE 2. NE 3. 75.5		8:30 Zodiacal light (faint).	
4		Cum s. 10. 0.		NE 3. NE 3. 77.		1:30 AM Appearance of heavy rain.	
8		Cum s. 1. b.		NE 2. NE 3. 78.0		6:30 sky clearing. 8:00 5-6 swell now 7	
NOON		Cum s. 4. bcx.		NE 3. NE 3. 80.6		10:00 Cum s. 10.	
4		Cum s. 10. c.		NE 3. NE 3. 80.7		4:45 Commenced to rain. wind 0-2 variable	
8		Cum s. 10. oc. I.R.		NE 3. NE 3. 80.0		8:00 Rain moderate - wind variable.	
MIDT.		Cum s. 8. oc. 3 R.		NE 3. NE 3. 80.0		10:45 Rain eased to intermittent drizzle	
2a		17		18		19	
		19a		20		21	
		20a		21a		22	
		22		23		24	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



## Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.* No.		Thermometers.		
Year	19	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb.	Wet Bulb.
Month	July	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.	No.	No.
Day.	Civil Time.	Hour.													
10	4	9	46	24	24			19°W.		Var S 9.	163	30.02	79		
	8	9	23	24	21			82	Obsd at 9.	S 9	163	.09	86		
	NOON	9	0	24	17					S 1/2 W.	3.4	.07	88		
	4	8	39	24	15					SSW.	2.3	.03	81		
	8	8	17	24	13					SSW	1.2	.06	81		
	MIDT.	7	55	24	11					SSW	3.4	.06	83		
11	4	7	33	24	9					SSW	2.4	30.05	83		
	8	7	16	23	56				Obsd at 9.	SW 1/2 S.	2.3	.09	85		
	NOON	7	0	23	43					SSW	2.3	.09	86		
	4	6	37	23	20					SSW	1.2	.04	85		
	8	6	15	22	57					S 9	1.2	.07	83		
	MIDT.	5	53	22	35					S 1/2 W 9	1.2	.08	81		
12	4	5.3	31	22	13			Var. 20 W.		Calme.		30.01	80		
	8	5	9	21	51				Obsd at 9.	S E.	5	.09	80	75.0	74.5
	NOON	4	57	22	4					SSW 1/2 S	4	.04	77	76.0	73.3
	4	4	37	22	18					SSW	2.3	.02	79		
	8	4	19	22	0					SW 1/2 S.	2.3	.08	82		
	MIDT.	4	02	21	44					SW 1/2	2.3	.08	78		
13	4	3	45	21	29					SSW	4	30.02	78		
	8	3	28	21	14					SW 1/2 W	4	.08	78		
	NOON	3	14	20	47					SW	5	.04	81		
	4	3	14	20	25					S	5	29.99	82		
	8	3	15	20	35					S 1/2 W	3.4	30.07	81	79.9	74.8
	MIDT.	3	14	20	53					S 9	3.4	.08	80	79.5	75
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

# Captain

from

to

Hour.	Clouds.		Weather.	Sea Surface.						Remarks.	
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			Waves.		Swell.		Temp. by No.	Spec. Grav. by No.		
				Direction from.	Disturbance, 0 to 10.	Direction from.	Disturbance, 0 to 10.				
											Also record when Confused.
Names.		Upper.	Lower.	Prop. of sky Unclouded 0 to 10.	According to Beaufort Notation.	Fog Intensity, 0 to 5.					
4		Str	10	op.			NE <sup>9</sup>				Moist. water. occas <sup>n</sup> showers. - slight to mod. <sup>1</sup> / <sub>2</sub> till 7.45
8		Nim	9	c			SE <sup>9</sup>	3	79.9		9.0 am. NE <sup>9</sup> swell now very slight.
NOON		Str	9	c			NE <sup>9</sup>	3	80.4	235	Atk. (noon) wind variable in dir. force 1 to 4
4		Str	9	c			SE <sup>9</sup>	3	80.0	235	2 PM. Rain slight to mod. <sup>1</sup> / <sub>2</sub>
8		Nim	10	oc. 2 P.			SE <sup>9</sup>	2	79.9		5.0 Rain ceased.
NOON		Cum s	9	oc. 1 P.			SSW	5	79.2		6.0 after. Wind SE 0 to 1. Swell increased to SSW <sup>1</sup> / <sub>2</sub>
MIDT.		Nim	8	bcp.			SE <sup>9</sup>	3	80		10.30 Heavy rain squall.
4		Str	10	ocp			SW <sup>9</sup>	2	79.4		Mid "much phosphorescence" weather clearing
8		Nim	10	ocp			SW <sup>9</sup>	2	79.4		Middle Occasional heavy rain.
NOON		Nim	10	ocp			SW <sup>9</sup>	2	79.4		From SSW swell long. SE swell smaller & shorter.
4		Nim	10	ocp			SW <sup>9</sup>	2	79.4		4 PM. Two swells from same dir. one very long
8		Nim	10	ocp			SW <sup>9</sup>	2	79.4		heavy other short & small.
NOON		Nim	10	ocp			SW <sup>9</sup>	2	79.4		6.0 Cum/Cum s/Nim/Alt s. prop <sup>n</sup> 9
4		Nim	10	ocp			SW <sup>9</sup>	2	79.4		7-8. Drizzle S.E. 3-4. A swell marked
8		Nim	10	ocp			SW <sup>9</sup>	2	79.4		"Thunder bar" to S.
NOON		Nim	10	ocp			SW <sup>9</sup>	2	79.4		8.0 Moon & some bright stars showing through.
MIDT.		Nim	7	bc.			SW <sup>9</sup>	2	80.9		
4		Str	8	CZ					80.8		4.00 5.30 Gentle breezes from N.
8		Nim	10	o.r.							8.0 Rain moderate to heavy.
NOON		Str	10	0.47			SE <sup>9</sup>	3			8.15 Wind springs up S.E. 5
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		9.0 Wind increased 7-8 Rain heavy.
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		10.0 Wind eased to 5, rain eased mod.
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		11.30 rain easing.
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		Noon. Rain almost stopped, wind veered to SSW <sup>1</sup> / <sub>2</sub>
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		2 PM. Rain stopped, wind veered SSW 2-3.
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		7.0 Sky clearing
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		7.55 Halo round moon rad. 22 <sup>1</sup> / <sub>4</sub> " also Corona
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		when clouds pass below.
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
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NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
8		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
NOON		Nim	10	oc <sup>2</sup> g.			SE <sup>9</sup>	3	80.9		
4		Nim									

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.	
Year	19 10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea..... feet.		Dry Bulb. No.	Wet Bulb. No.
Month	July.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Day.	Civil Time.	Hour.	and the wet bulb being unsaturated by salt water.												
14	4	3	14	21	11			20 W.		S <sup>1</sup> W	4	30.04	81	81	74.2
	8	2	56	21	15			86.	obsd at 9.	S	3.4	30.13	88	81.5	
	NOON	2	37	21	20					S <sup>1</sup> W	4	30.13	91	81.5	73.0
		Current in last hours mls.													
	4	2	16	21	33					S <sup>1</sup> W	3.4	30.11	92	80.6	73.8
	8	1	55	21	43.					SSW.	2	14	85	-	-
	MIDT.	1	34	21	53.					S <sup>1</sup> W.	2.3	14	83	-	-
15	4	1	12	22	3					S.S.W.	2	30.09	82		
	8	0	54	22	6					Mag's obs <sup>us</sup> going on.					
	NOON	0	40	21	56					SSW.	2.3	13	86		
		Current in last hours mls.													
	4	0	27	21	49					S <sup>1</sup> E	2.3	08	87		
	8	0	9	21	41					S <sup>1</sup> E	1	13	83		
	MIDT.	0	9	21	33.					SE <sup>1</sup> S.	1.2	15	82	76.5	76.2
16	4	0	27	21	24			20 W.		SE <sup>1</sup> S.	2	30.10	80	76.3	72
	8	0	49	21	18					SE	2	18	84	76.8	71.9
	NOON	1	7	21	16					E <sup>1</sup> S.	2	13	81	78.2	72.5
		Current in last hours mls.													
	4	1	37	21	23.					E <sup>1</sup> S	2	10	84	76.2	72.3
	8	2	07	21	30					E	2.3	14	79	77.0	73.0
	MIDT.	2	37	21	27					E <sup>1</sup> N.	3	14	79	77	73.5
17	4	3	8	21	24					E <sup>1</sup> S	3	30.08	78	77.5	73.0
	8	3	38	21	25				obsd at 9.	E <sup>1</sup> N.	3	17	77	74.8	73.6
	NOON	4	7	21	26					E	5	13	79	74.9	72.6
		Current in last hours mls.													
	4	4	32	21	16					E <sup>1</sup> S.	3	11	84	78.8	74.5
	8	4	58	21	30					E <sup>1</sup> SE	3.4	17	80	79.0	74.7
	MIDT.	5	23	21	43					SE <sup>1</sup> E	4.5	17	78	77.9	74
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		Weather.		Sea Surface.					Remarks.		
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.			Spec. Grav. by No.
	Names.	Prop. of Sky Clouded. 0 to 10.			Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
										Upper.	Lower.	
4			5	bcp		SE	3	SE	4	80.5	4. All. Slight showers. Det Cum / alt / Cir / Ci / str 10.0. Two muskie awick on wet bulk. 6. Pul. Wind eased to S.S.W 2.	
8		Cum	4	bct		S	4	SE	3	80.8		
NOON	Alt s.	Cum	6.	bc.		SE	4	SE	3	81.2		
4	Alt s.	Cum	6.	bc.		SE	3	SE	3	81.1		
8		Det. Cum / Cum s.	4	bc.			1	SE	3	80.0		
MIDT.		Det. Cum s.	3.	bc.		SE	3	SE	3	79.5		
4		Cum s	2	bc.			2	SE	2	78.0	3. Pul. Wind SSE 2-3. 4.0 Swell long & crossed by slight. SSE and Sunset. To NW over sun & to E. W. 2. Alt / alt s / Cir / Ci. prop. 2. Wind SE 1.	
8			2					SE	3		10.45. Cumulus light Cirro-strat. Cloud of no breadth stretching in an ESE & dir. across R.E. quadrant.	
NOON	Alt s.		1	bc.		SE	2	S	4	77.8 23.5	140° length. 40° N 23 1/2° N.W.	
4	alt s. alt s. Cir s.			b		SE	2	S	4	77.9		
8	Alt s	Cum s		b.			1	SE	5	77.2		
MIDT.				bc.			2	SE	4	77.4		
4			3.	bct.				SE	4	76.	5.30 All. sunrise. Cum / Det Cum / Alt s / also Cir s + Ci. 5.30 Pul. Sunset. on clear horizon. green flash very distinct	
8	Cir s.	Cum	1.	b			1	S.	4	76.7	6.45. Det Cum s 3. from. SE'S. ③ 7.0 Wind increased 2-3. 10.30 short sharp shower.	
NOON	Cir s	-	1/4	b.			1	S.	4	76.7		
4	-	-		b.			1	S	4	76.2		
8		Cum. Cum s.	7.	c.				long S.	4	78.0		
MIDT.		Cum s	4	bc.			1	SE	4	77.8		
4			0	bg.		SE	2	SE	4	78.2	All. 1.0 Squalls 3-4. dir. (general) RSE. 2.45 Cloudless.	
8	Alt s.	Cum Cum s Cum	10	ocgp.		SE	2.	SSR	4	78.0	4.0 Squalls frequent 3-4. 6.30 clouded over rapidly Cum s + Cum 8. 8.50 Heavy rain squall for 10 mins. 10.25. Wind veered to E'S and to S. P.M. squally. 5 in squalls. 3-4 between. 4.30 Pul. showers about.	
NOON	Alt s	Cum	9	ocgp		E	4	Conf.		79.1		
4	Alt s.	Cum.	4	bc.		SE	3	SE	5	79.5		
8		Det. Cum Cum	3	bc.		SE	3	SE	5	79.7		
MIDT.			5	bcg		SE	4	SE	5	79.4		
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.	
Year	19 10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.
Month	July	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Day, Civil Time.	Hour.														
18	4	5	49	21	56			20 W.		SE till 3:30 Pm	4	30-14	78	77.8	73.2
	8	6	14	22	09			84 1/2	obs at 9.	SE S.	4.5	.21	81	79.8	73.9
	NOON	6	40	22	22					SE S.	5	.18	82	80.1	74.2
	4	7	0	22	40					SE S.	5	.13	83	79.9	73.8
	8	7	17	22	50					SE S.	3-4	.19	79	78.6	72.2
	MIDT.	7	35	23	01					SE S.	3-4	.20	78	78.5	72
19	4	7	52	23	12					SE	3			78	71.6
	8	8	10	23	23			81		SE S.	3-4	30.23	80	78.8	70.5
	NOON	8	10	23	23					SE	3.	.20	79	79	71
	4	8	23	23	31					SE	4	.15	81	78.6	71.9
	8	8	35	23	40			1 obs 8:30		SE	3-4	.20	79	77.8	72.0
	MIDT.	8	48	23	49					SE	2-4	.22	79	76	72.5
20	4	9	00	23	58					SE	4	30-18	78	77.1	71.9
	8	9	21	24	13			80		SE S.	5	.21	79	78.9	70.4
	NOON	9	42	24	28					SE	5	.21	79	77.1	71.1
	4	9	59	24	44					SE	3-4	.15	79	76.8	71.0
	8	10	15	25	0					SE	3-4	.22	77	76.0	71.1
	MIDT.	10	28	25	11					SE	2-4	.21	77	75.8	70.2
21	4	10	41	25	23			20 W.		SE	4	30-18	75	75.0	68.2
	8	10	54	25	35			79	obs at 9	SSR	3.	.23	77	76.5	67.0
	NOON	11	7	25	47					SSR	3	.22	78	75.8	67.2
	4	11	15	26	2					SSR	3	.15	77	76.5	67.5
	8	11	23	26	18					SE S.	3	.21	76	75.6	68.9
	MIDT.	11	38	26	28					SE S.	2-4	.22	75	74.4	68.6
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

# Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
Hour.	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.	According to Beaufort Notation.	Fog Intensity.	Waves.	Swell.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
Upper.	Lower.	Prop. of Sky Clouded. 0 to 10.	0 to 5.	Direction from.	Disturbance. 0 to 10.	Temp. by No.	
4		4	bc	SE	4	SE	4 78
8	alto Cum.	6	bc	SE	4	SE	4 79.3
NOON	alto Cum.	3.	bc.	SE	4	SSR	5 79.5
4	Cum.	6	bc.	SE	4	SE	5 79.7
8	Part. Cum.	2.	bc.	SE	4	SSR	5 79.5
MIDT.	Cum.	2	bc.	SE	3	SE	5 79
4	Cir s Cum	5	bc.	SE	3	SE	4 78
8	Alto Cum s	7.	c	SE	4	SE	4 79.2
NOON			bc.				79.6
4	Alto Cum s	4	bc.	SE	4	SE	4 79.2 24
8	High Cum s	3.	bcg	SE	3	SE	4 79.1
MIDT.	Cum	7	bcg.	SE	3	SE	4 78.8
4	Cir c. Cum	6.	bc.	SE	3	SE	4 78.2
8	Alto Cum	1	b.	SE	4	SE	5 78.4
NOON	Alto Cum	4	bc.	SE	4	SE	4 78.2
4	Alto s. Cum	2	bcg	SE	3	SE	5 78.3
8	Alto Cum	2.	bc	SE	3	SE	4 78.0
MIDT.			bcg.	SE	4	SE	4 78.2
4	Cum s	9	gpc.	SE	4	SE	4 75.1
8	Cum s	6	c	SSR	3	SSS	7 77.1 25
NOON	Cir s. Cum	1.	b.	SSR	3	SSS	6 76.2
4	Cir s Cum	1	b	SSR	3	SSS	6 77.2
8	Cum s	9	c.g.	SE	3	SE	4 77.0
MIDT.	Alto Cum	8	bcg.	SE	3	SE	4 76.9

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.	Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.			
Year 1910	Month July	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.	Uncorrected Reading.	Att. Therm.	Dry Bulb. No.	Wet Bulb. No.	
22	4	11	54	26	38				SE	4	30.20	75		74.3	68.8	74
	8	12	11	26	50				SE <sup>6</sup> S	4		25	77	75.9	68.2	66
	NOON	12	29	27	02				SE	4		27	82	76.0	68.3	66
	4	12	43	27	12				SE	4		25	87	75.8	68.0	64
	8	12	57	27	23				SE	3-4		26	78	75.0	69.2	72
	MIDT.	13	10	27	31				SE <sup>6</sup> E	2-3		28	76	74.5	70	74
22	4	13	24	27	39											74
	8	13	42	27	46											
	NOON	14	01	27	53											
	4	14	18	27	54											
	8	14	35	27	55											
	MIDT.	15	00	28	00											
23	4	13	24	27	39				SE	4	30.27	75		74.2	69	76
	8	13	42	27	46				SE <sup>6</sup> E	3-4		30	76	73.8	69.9	81
	NOON	14	01	27	53				E	4		28	78	76.6	71.0	78
	4	14	18	27	54				E <sup>6</sup> S	4		23	78	75.0	69.5	74
	8	14	35	27	55				ESE	3-4		27	76	74.4	69.0	74
	MIDT.	15	00	28	00				E <sup>6</sup> S	3-4		27	75	74.4	69	74
	4															
	8															
	NOON															
	4															
	8															
	MIDT.															

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		Weather.	Sea Surface.				Remarks.
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.	Names.		Waves.		Swell.		
				Direction from.	Disturbance 0 to 10.	Direction from.	Disturbance 0 to 10.	
4	Cum	2	bc.	SE	4	SE <sup>6</sup> S	4	
8	Alt. Cum	2	c	SE	3	SW <sup>6</sup> S	7	
NOON	Air Cum	1	b	SE	3			
4	Air Cum	8	b	SE	3			
8	Air Cum	3	bc	SE	3			
MIDT.		4	bc	SE	3			
4	July 22 <sup>nd</sup>		bc.	SE	3	SE <sup>6</sup> S	5	400 ft. Altitude Det Cum. around horizon
8			bc.	SE	4	SE <sup>6</sup> S	5	5:30. In the ENE - NW. The cumulus is lying in shade that appear to converge on ENE point of horizon.
NOON			b.	SE	4	SW <sup>6</sup> S	5	
4			c	SE	4	SW <sup>6</sup> S	5	No hydrom <sup>2</sup> readings on 1/2 of motion.
8			bc.	SE	4	SW <sup>6</sup> S	5	
MIDT.			bc.	SE	4	SW <sup>6</sup> S	6	
4	Cum	5	bc	SE	4	SW <sup>6</sup> S	5	4 Alt. passing showers on horizon
8	Alt. Cum	7	cp.	SE	4	SE <sup>6</sup> S	5	8:0 Showers about a few drops on ship.
NOON	Air Cum	8	c	SE	4	SE	5	11:0 Clocks back 8 m. to 1:57 m slow on Gulf.
4	Air Cum	4	bc.	SE	4	SE	5	4:00 PM. chiefly Cum s. clouds.
8	Air Cum	4	bc.	SE	3	SE <sup>6</sup> S	5	7:0 Zodiacal light fairly plain from extending towards Jupiter at an altitude 32°.
MIDT.		4	bc.	SE	3	SE <sup>6</sup> S	5	
4	Cum	5						
8	Alt. Cum	7						
NOON	Air Cum	8						
4	Air Cum	4						
8								
MIDT.								

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*	Thermometers.	
Year 1910		Observed.		Observed.		Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.	Dry Bulb.
Month July		Dead Reckoning.		Dead Reckoning.		True Course.		Distance by Log.		Uncorrected Reading.		Att. Therm.	Wet Bulb.
Day, Civil Time.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.	
24		4		15		24		28		6		74	
8		15		49		28		10		77		74.2	
NOON		16		14		28		15		1.1		74.8	
4		16		48		28		24		ESE		73.8	
8		17		23		28		33		ESE		73.2	
MIDT.		17		54		28		45		E <sup>6</sup> S		72.8	
25		4		18		25		28		57		72.5	
8		18		56		29		05		76.		74.0	
NOON		19		27		29		14		E		73.9	
4		19		55		29		15		E		72.8	
8		20		10		29		21		E <sup>6</sup> S		72.6	
MIDT.		off. S. Trinidad								E <sup>6</sup> S		72.6	
26		4								L <sup>9</sup>		71.9	
8										Under		73.2	
NOON										lee		74	
4										7 island		74.0	
8												74.0	
MIDT.												74.0	
27		4		do								73.5	
8												73.9	
NOON												75.1	
4												75.1	
8												75.1	
MIDT.												75.1	

Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.		Waves.		Swell.	
Names.		Fog Intensity.		Direction from.		Direction from.	
Upper.		0 to 5.		0 to 10.		0 to 10.	
Lower.		Also record when Confused.		Temp. by No.		Spec. Grav. by No.	
4		3		bc.		SE <sup>9</sup> 4 SE <sup>9</sup> 5	
8		9		oc		SE <sup>9</sup> 4 SE <sup>9</sup> 4	
NOON		2		bcx		SE <sup>9</sup> 4 SE <sup>9</sup> 4	
4		2		bc.		ESE 5 SE 5	
8		0		b		ESE 4 SE 5	
MIDT.		2		bc		E 4 ESE 4	
4		4		bc.		ESE 4 ESE 5	
8		4		bcx.		E <sup>6</sup> S 4 ESE 5	
NOON		3		bcx		E 3 ESE 5	
4		2		bcx		E 2 SE <sup>9</sup> E 4	
8							
MIDT.		2		bc.		E 2 E <sup>6</sup> S 3	
4		1		b.		Under	
8		4		bc.			
NOON				bc.		lee	
4							
8							
MIDT.		4		bc.			
4		4		bc.			
8		9		c		do	
NOON		4		bc.			
4							
8		1		b			
MIDT.		4		bc			

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# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.		
Year	19 10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.	
Month	July	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.			
Day.	Civil Time.	Hour.														
28 <sup>th</sup>	4		Anchored									30.35	74	72.1	66.5	
	8		at P. Trinidad						0600 at 8.30			40	75	71.5	65.6	
	NOON											40	79	74.6	66.1	
	4		Current in last hours mls.								SE <sup>6</sup> E	4	34	78	71.9	65.8
	8		20 48 S 29 13								SE <sup>6</sup> E	4.5	36	74	71.6	66.6
	MIDT.		21 22 29 50								E <sup>6</sup> S	4	31	73	70.5	66.
29 <sup>th</sup>	4		21 39 28 39								SE	3.5	30.32	71	71.0	64
	8		21 56 28 28										Unshipped			
	NOON		22 16 28 16						76		ESE	4	while		72.1	65.5
	4		22 42 28 06.								E <sup>6</sup> S	4	caulking		70.8	64.
	8		23 09 27 56								E <sup>6</sup> N	3.5	deck above		70.2	64.8
	MIDT.		23 33 27 39								E <sup>6</sup> N	2.3			68.3	64.8
30 <sup>th</sup>	4		23 58 27 22								R	3.5			70.2	64
	8		24 20 27 05						72		RNR	2.3			69.8	65.5
	NOON		24 42 26 49						0600 at 10		RNR	3.4	- do -		71.3	66.3
	4		25 01 26 29								RNR	3			69.8	66.3
	8		25 20 26 08								RNR <sup>9</sup>	3			69.0	66.4
	MIDT.		25 39 25 49								RNR <sup>9</sup>	3.4			66.8	66.5
31 <sup>st</sup>	4		25 58 25 29						Therm. no. 2069		RNR	4			68.7	67
	8		26 17 25 09						0600 at 9.0		SSW	3.4			65.5	64.5
	NOON		26 36 24 49						73		SW	3.4	- do -		65.9	62.9
	4		26 36 24 24								SSW.	3.				
	8		26 36 23 59								SW <sup>6</sup> S	3.4				
	MIDT.		26 36 23 34								S <sup>6</sup> W	3				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Hour.	Clouds.			Weather.		Sea Surface.						Remarks.	
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.		Time of Remark.
	Names.		Prop. of Sky Clouded. 0 to 10.			Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
	Upper.	Lower.											
4		Cum	3.	bcp.						73.1		12.30 P.M. Proceeded for Simon's Bay.	
8	Altc.	Cum.	3.	bc.						72.9		11.40 P.M. Wind shifts to R <sup>6</sup> S.	
NOON	Cir.	Cum.	3.	bct									
4		Cum	3.	bc.		SE <sup>6</sup> E	3	SE <sup>6</sup> E	4	72.8			
8		Cum	2	bct				ESE <sup>6</sup>	5	72.2			
MIDT.	Cir.	Cum	5	bct		SE <sup>6</sup>	4	SE <sup>6</sup>	4	72			
4			7	g/Rbc.		SE <sup>6</sup>	4			71.2		ATM. 0.30 to 1.00 Heavy rain squall force 5	
8												1-3 Clear sky.	
NOON	Det Cum	Cum	1	bc.		ESE	3	WSW	6	72.0		10.0 Wind R <sup>6</sup> S 4-5	
4	small	Cum	1	b		ESE	4	WSW	6	71.8		Noon. WSW swell very long ESE swell short.	
8		Cum	2.	bct						71.8		4.0 Swells as at noon	
MIDT.			3	bcp		E <sup>6</sup>	3			70.2		6.0 Wind backed to R <sup>6</sup> N 4	
4			9	gcp.		E <sup>6</sup>	3			68.8		8.15 Shower of rain	
8	Altc.	Cum	8	cp.		E <sup>6</sup>	2.	SW	6	69.5		10.45-11.30 Showers, sea getting calmer	
NOON	Cir.	Cum	3	bc.		RNR <sup>6</sup>	3	SW <sup>6</sup>	5	69.0		Wind falling	
4	Cir/Altc	Cum	3	bc.		RNR	3	ESE	5	69.0		1 P.M. RNR swell now marks SW <sup>6</sup> zone.	
8			0	b						68.0		Dissect green flask visible	
MIDT.			0	b.		RNR <sup>6</sup>	4	RNR <sup>6</sup>	4	68.2		7.0 Eod <sup>6</sup> light. very clear. pointing to Jupiter to Alt of 34°.	
4	Cir		1	bco		RNR <sup>6</sup>	4	RNR	4	68		1 P.M. - 3.0 Clear sky with Cirrus clouds.	
8			10	oc 1/2 R.		Conf	4	E <sup>6</sup>	4	67.0		3.0 Squall worked up from RNR & passed ahead	
NOON	Stc		10	oc 1 R.		Conf	3	E	4	67.0		6.0 Cir. Cum 2/Min 1 & considerable Altc.	
4	Min		10	oc 2 D		Conf	3	RNR	4	67.1		11.0 Clocks put out 4" to 1.53" slow on G.M.T.	
8	Stc		10	oc 1 D								forenoon - wind gradually backing	
MIDT.	Stc		10	oc 2		SSW <sup>6</sup>	3	S <sup>6</sup>	4	67		1 P.M. RNR swell now marks SW <sup>6</sup> zone.	
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



## Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.	
Year	1910	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.
Month	Aug	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Day.	Civil Time.	Hour.													
1st		4	26	36	23	09		Max temp		SW	4				
		8	26	38	22	43		70	0623 at 9.0	SSW	2.3	Unshipped		67.5	61
		NOON	26	48	22	24			0623 at 1.0	SE	1	while		66.9	60
		4	27	02	22	12				SE	1	Caulking		69.1	62.5
		8	27	17	21	59				SSW	1	deck		unreliable	
		MIDT.	27	36	21	43				Calcu.		above.		64.8	61.0
2nd		4	27	56	21	27				SE	0-1				
		8	28	14	21	11		69	0623 at 9.0	WSE	1			63.0	58.0
		NOON	28	32	20	55			at 12.30	WSE	1	-do-		65.2	58.8
		4	28	50	20	42				WSE	1			64.0	58.2
		8	29	08	20	27				SE	0-1				
		MIDT.	29	25	20	12				SE	2.3	30.38	67		
		4													
		8													
		NOON													
		4													
		8													
		MIDT.													
Aug 3		4	29	42	19	57				SE	1.2	30.34	64		
		8	30	00	19	42		68	0623 at 8.30	S	2.3	42	65	63.3	54.6
		NOON	30	18	19	28				SE	1.2	43	70	60.7	53.0
		4	30	25	19	05				SSW	1.2	42	71	59.8	57.6
		8	30	31	18	43				SE	1	47	69	M=	55
		MIDT.	30	37	18	13				Calcu	0	45	66		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

—from

to

Hour.	Clouds.		Weather.		Sea Surface.						Remarks.	
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity, 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.		
	Names.	Upper.			Lower.	Direction from.	Disturbance 0 to 10.	Direction from.				Disturbance 0 to 10.
4		Str	3	6		SSW	3			67		Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
8	Cir		3	bc		SSW	3	W <sup>3</sup>	7.8	67.5		10.00 Sky overcast till 3:15 clear then to end of watch. 1.0 P.M. Cloud nearly all Cir, but a little Cum. 4.0 Swell lessening fast. 5.45 Alt C/Str/Cum/prop "8" mostly Alt C. 11.0 Ran into slight fog. 11.30 Clearer but horizon still indistinct.
NOON	Cir	Cum s	8	C			1	WSW	7	67.8		
4	Cir	Cum						SSW	2			
8	Cir	Str	7	bc			1	SWW	6	66.0		
8		Cum s	2	bc						65.1		
MIDT.		Str	2	bc m/2 F	1			WSW	7	65.6		
4	Cir s	Str	3	bc				SW	6-7	65.3		First - many shooting stars. 7.00 middle. clocks on 20 <sup>m</sup> to 1 <sup>h</sup> 30 <sup>m</sup> slow on G.M.T.
8	Alt s	Cum s	8	C			1	SWW	7.8	66.5		to Str. moving slowly up from. Str. 6.0 Dark part of moon very distinctly seen. 8.0 Showers about. 9.30 Shower of 'slight' rain. 10.00 Swell slightly confused. apparently by a slight S.S. swell. 11.00 Running towards a heavy Cum n. bank of clouds with much rain. S.S. (map) from ship. 11.45 bank of rain clouds passed to star.
NOON	Alt s	Cum s	3	bc			1	SWW	7	66.2		
4	Alt s	Cum s	3	bc			1	SW	6	63.2		
8		Cum s	3	bc m			1	SW	5	64.2		
MIDT.		Str	3	bcgp			1	SW	6	62.8		
4												swell easing. 7.0 Wind backed towards S. 8.0 Put clocks on 5 <sup>m</sup> to 1 <sup>h</sup> 25 <sup>m</sup> slow on G.M.T. 10.30 Turn. to W. clouds gradually spreading to S. 11.30 Short rain squall.
8												
NOON												
4												
8												
MIDT.												
2										62.5		10.00 Alt.
4	Cir s	Str	3	bc				SW	6	62.1		P.M.
8		Cum s	3	bc	S	3		SW	7	62.3		7.0 2nd light very bright extending to an alt of 37° beyond Jupiter - almost masks 3 <sup>rd</sup> mag. stars.
10		Del								61.3	7.0	
NOON		Cum s	2	bc	S	2		SW	6	62.0		11.0 Clocks on 5 <sup>m</sup> to 1 <sup>h</sup> 20 <sup>m</sup> slow on G.M.T.
4		Del										
8		Cum	1/2	6	SSW	2		WSW	5.6	61.9		
8		Cum s	2	bc						60.7		* Readings in brackets by Therm <sup>ts</sup> aft. The "forth" on starboard side used when air from engine room affected the other.
MIDT.			0	6		0		SW	6	61.2		
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.	Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*	Thermometers.	
Year 1910		Observed.		Observed.		Each four hours.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction, State if true, or subject to Compass Error, or only to Variation.	Force, 0 to 12.	Height of Cistern above Sea.	feet.
Month	Day.	Hour.	Dead Reckoning.	Dead Reckoning.	True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.
Aug												
	4	4	30	43	17	43			SE 1/4 S	0.1	30.40	64
	8	8	30	49	17	13			variable	0.1	45	67
	NOON		30	56	16	48			SE 1/4 S	1	44	71
	4	4	31	04	16	21			E	2	37	64
	8	8	31	13	15	54			NR	2	38	67
	MIDT.		31	21	15	27			NR	2	38	67
	5	4	31	30	15	00			NR	3	30.30	66
	8	8	31	38	14	33						
	NOON		31	47	14	06			NR	4.5	18	72
	4	4	31	57	13	30			NR	5.6	08	69
	8	8	32	8	12	55			N	6	02	69
	MIDT.		32	19	12	19			NR	4.6	29.98	68
	6	4	32	30	11	44			NR	6.7	29.89	66
	8	8	32	41	11	08			NR	7	81	68
	NOON		32	52	10	33			NR	7	71	67
	4	4	33	03	9	58			NR	7	65	67
	8	8	33	06	9	35			WSW	8		
	MIDT.		33	10	9	11			WSW	7.65		
	7	4	33	13	8	48			WSW	7.64		
	8	8	33	17	8	25			NR	4		
	NOON		33	20	8	02			NR	4.5		
	4	4	33	21	7	28			SW	7		
	8	8	33	22	7	05			SW	4.67		
	MIDT.		33	28	6	42			SW	6.68		

# Captain

# from

# to

Clouds.		Weather.		Sea Surface.		Remarks.	
Hour.		According to Beaufort Notation.		Waves.		Swell.	
Names.		Fog Intensity.		Direction from.		Direction from.	
Upper.		Lower.		Disturbance.		Disturbance.	
Prop. of Sky Clouded.		Temp.		by No.		by No.	
0 to 10.		0 to 5.		0 to 10.		0 to 10.	
Also record when Confused.							
4		0		SW		5	
8		8		SW		5	
NOON		3		SW		5.6	
4		8		SW		5	
8		6		SW		5	
MIDT.		10		SW		5	
4		10		SW		4	
8		7		SW		4	
NOON		8		SW		4	
4		1		SW		4	
8		1		SW		4	
MIDT.		8		SW		4	
4		8		SW		4	
8		10		SW		4	
NOON		9		SW		4	
4		9		SW		4	
8		7		SW		4	
MIDT.		6		SW		4	
4		4		SW		7	
8		5		SW		4	
NOON		10		SW		4	
4		6		SW		4	
8		3		SW		6	
MIDT.		3		SW		5	

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DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.		Ship's Head.		Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 1910		Observed.		Dead Reckoning.		Each four hours.		Max. Ther.		By same Compass as Wind.		Direction. State if true, or subject to Compass Error, or only to Variation.		No. above Sea.		Dry Bulb.	
Month Aug.		S		W		True Course.		Of Compass used for Wind, being Variation and Deviation combined.		Force. 0 to 12.		Uncorrected Reading.		Att. Therm.		No.	
Day, Civil Time.		Hour.		Current in last hours		Distance by Log.		mils.		mils.		mils.		mils.		mils.	
8 <sup>th</sup>		4	33	24	6	19W						SW <sup>6</sup> W	6-8			(49.2)	(45.2)
		8	33	25	5	56		56				WSW	5			(50.8)	(45.0)
NOON			33	26	5	34						WSW	6			54.5	47.5
		4	33	36	5	04						WSW	5			53.9	47.9
		8	33	47	4	33						WSW	4			55.5	50.3
MIDT.			33	57	4	03						WSW	5-6			57.2	48.1
9 <sup>th</sup>		4	34	8	3	33W						WSW	6-7			57	51.6
		8	34	19	3	03		58				W	5-7			57.6	53.5
NOON			34	30	2	33						W	5-7			59	54.2
		4	34	39	1	55						WSW	4-5			57.2	53.8
		8	34	49	1	25						WSW	4-5			56.2	53.5
MIDT.			34	58	0	54W						WSW	3-4			57.1	52.4
10 <sup>th</sup>		4	35	08	0	23W						WSW	5			57.1	53.0
		8	35	17	0	8E						WSW	4-5			57.5	53.9
NOON			35	27	0	39E						WSW	5			58.0	53.3
		4	35	37	1	10E						WSW	5-6			57.6	53.2
		8	35	38	1	43E						WSW	4-5			56.5	54.7
MIDT.			35	40	2	15E						WSW	5-6			57.3	55.6
11 <sup>th</sup>		4	35	42	2	48						WSW	5			56.1	55.2
		8	35	44	3	20		58				WSW	4			57.2	55.9
NOON			35	46	3	52						WSW	4			57.9	55.8
		4	35	45	4	18						WSW	4			58.0	56.0
		8	35	44	4	44						WSW	3			58.0	56.0
MIDT.			35	43	5	10						WSW	4			58.6	56.5

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.		Waves.		Swell.	
Names.		Fog Intensity.		Direction from.		Direction from.	
Upper.		Lower.		Temp. by No.		Spec. Grav. by No.	
Hour.		Time of Day.		Time of Day.		Time of Day.	
4		Cum N		5		WSW	
8		Cum N		5		WSW	
NOON		Cum N		5		WSW	
4		Cum N		6		WSW	
8		Cum N		5		WSW	
MIDT.		Cum N		3		WSW	
4		Cum N		5		WSW	
8		Cum N		8		WSW	
NOON		Cum N		5		WSW	
4		Cum N		6		WSW	
8		Cum N		4		WSW	
MIDT.		Cum N		9		WSW	
4		Ste		10		WSW	
8		Cum N		10		WSW	
NOON		Cum N		10		WSW	
4		Alt C		8		WSW	
8		Cum N		8		WSW	
MIDT.		Cum N		8		WSW	
4		Cum N		9		WSW	
8		Cum N		6		WSW	
NOON		Cum N		10		WSW	
4		Cum N		10		WSW	
8		Cum N		8		WSW	
MIDT.		Cum N		3		WSW	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.	
Year	1910	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb.	Wet Bulb.
Month	Aug.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
Before accepting the readings of the dry and wet bulb thermometers, the observer should satisfy himself that both are in working order; the dry bulb being free of moisture and the wet bulb being unattended by salt water.															
12 <sup>th</sup>	4	35	42	5	36			Max		NW <sup>2</sup> W	4			58.5	55.5
	8	35	41	6	02			59	0420 at 9	NW <sup>2</sup> W	3-4			57.1	56.3
	NOON	35	41	6	28					SW <sup>2</sup> W	3			55.0	54.5
	4	35	39	7	03					S <sup>2</sup> W	2-3			53.2	52.9
	8	35	36	7	38					SSW <sup>2</sup>	1-2			55.0	53.0
	MIDT.	35	34	8	13					E <sup>2</sup> S	1-2			56.8	52.0
13 <sup>th</sup>	4	35	31	8	48					R <sup>2</sup>	0-1	Broken.		56.2	57.3
	8	35	29	8	23				0620 at 9	E <sup>2</sup> N.	2			57	52
	NOON	35	27	9	58					NR <sup>2</sup>	1-2			58.2	52.9
	4	35	25	10	34			61		E <sup>2</sup> S	0-1			58.0	52.3
	8	35	24	11	11					N <sup>2</sup> S	1			56.0	51.6
	MIDT.	35	22	11	47					NNR <sup>2</sup> S	0-1			55.6	50.4
14 <sup>th</sup>	4	35	21	12	24					N <sup>2</sup> E	0-2			54.6	49.8
	8	35	19	13	01			58	9.0	NW <sup>2</sup> N.	4			56.1	52.2
	NOON	35	17	13	38					NW <sup>2</sup> N	5			56.1	53.2
	4	35	13	14	25				3.30	NW	6			56.8	54.9
	8	35	08	15	11					NW <sup>2</sup> W	4-5			56.2	53.6
	MIDT.	35	03	15	58					NW <sup>2</sup> W	6-7			52.4	50.0
15 <sup>th</sup>	4	34	58	16	45					NW <sup>2</sup> W	8-9			53.9	49
1.6	8	34	53	17	31					NW	6			56.8	52.1
	NOON	34	38	18	9			58		NW	6				
	4														
	8														
	MIDT.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
Hour.	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.	According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.	Swells.		Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Upper.	Lower.		Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.
4			0	W	4	57.4	Clocks on 10 <sup>00</sup> to 10 <sup>20</sup> fast on G.M.T.
8	Cum.	9	C	NW <sup>2</sup> W	4	58.9	10 <sup>30</sup> Sky cleared.
NOON	Alt.	8	C	3	W	57.8	6 <sup>10</sup> - A. S. Air in strata Cum & strata round horizon.
4	Cir.	10	C	3	W	57.8	6 <sup>30</sup> Sunrise - cumulus & cir.
8	Cum.	3	bc				11 <sup>0</sup> Wind backed to S <sup>2</sup> W - shower - slight.
MIDT.	Str.	7	C	1	W	58.3	2 P.M. wind backed to S <sup>2</sup> W 3.
4	Str.	9	Cm				4 <sup>0</sup> patches of fog about.
8	Cir.	1	bc	1	W	58.5	4 <sup>45</sup> Wind backed to S <sup>2</sup> W & ceased to 1-2.
NOON	Cum.	9	C	1	W	57.5	5 <sup>15</sup> fog 1 - patchy. Cross swell coming up from S.W.
4	Alt.	6	C	1	W	60.3	6 <sup>0</sup> Corona round noon.
8	Cum.	9	C	1	W	57.0	7 <sup>0</sup> No fog.
MIDT.	Cir.	8	C	1	W	57.7	Midnight Rain falling to West, clouding & clearing.
4	Str.	3	bc	1	W	59.1	1 P.M. Clocks on 10 <sup>00</sup> to 10 <sup>30</sup> fast on G.M.T.
8	Alt.	6	bc	1	W	59.1	Completely clouded over Cum & strata & remained so till 3.30
NOON	Cum.	9	C	1	W	57.5	7 <sup>10</sup> P.M. Corona round noon - aureole only.
4	Alt.	6	C	1	W	60.3	8 <sup>0</sup> No Corona.
8	Cum.	9	C	1	W	57.0	
MIDT.	Cir.	8	C	1	W	57.7	
4	Str.	3	bc	1	W	59.1	Clocks on 10 <sup>00</sup> to 10 <sup>40</sup> fast on G.M.T.
8	Alt.	6	bc	1	W	59.1	6 P.M. dawn. light Cir. 5. Cum 2. around horizon.
NOON	Cum.	9	C	1	W	59.1	6 <sup>30</sup> Wind freshened N 2-3.
4	Cum.	9	C	1	W	59.1	7 <sup>30</sup> Cum. 2. 9. wind freshened 3.
8	Cum.	9	C	1	W	59.1	Afternoon. short. slight showers. wind increasing.
MIDT.	Cir.	8	C	1	W	59.1	3 <sup>45</sup> P.M. wind wick. 7-8 Rain 1/2 hr. mod. heavy.
4	Cum.	9	C	1	W	59.1	5 <sup>0</sup> Wind backed to W. & force 4 - barometer up.
8	Cum.	9	C	1	W	59.1	6 <sup>30</sup> Cum. 2. 9. Corona round noon.
MIDT.	Cir.	8	C	1	W	59.1	when Cum. 2. Cloud pass. rad. to brown - 1 <sup>00</sup> 30.
4	Cum.	9	C	1	W	59.1	8 <sup>0</sup> Sheet lightning to NW; wind var. in dir.
8	Cum.	9	C	1	W	59.1	Mod. rain 6 <sup>00</sup> - very heavy + hail at 8.30 - 8.35.
MIDT.	Cir.	8	C	1	W	59.1	Heavy squall & rain at 10.30 & 11.55
4	Cum.	9	C	1	W	59.1	Clocks on 20 <sup>00</sup> to 1 <sup>00</sup> fast on G.M.T.
8	Cum.	9	C	1	W	59.1	Middle heavy squalls 9 <sup>10</sup> - occas. heavy rain.
NOON	Cum.	9	C	1	W	59.1	white lunar rainbow seen thru Alt 4 <sup>0</sup>
4	Cum.	9	C	1	W	59.1	Morning before sunrise, heavy squalls occasional.
8	Cum.	9	C	1	W	59.1	mod. rain, squalls 8 <sup>00</sup> Sea 8. wave height 24'
MIDT.	Cir.	8	C	1	W	59.1	Forenoon. Cl. 5-6. wind moderating.
4	Cum.	9	C	1	W	59.1	10 <sup>15</sup> Squall force 7 with mod. rain. Later wind steadied to 6
8	Cum.	9	C	1	W	59.1	Noon sea swell together 24'
MIDT.	Cir.	8	C	1	W	59.1	2 P.M. Entering Filae Bay.
4	Cum.	9	C	1	W	59.1	5 <sup>30</sup> At Booy in Simon's Bay.

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board Terra Nova R.Y.S.

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No. 1163.		Thermometers.	
Year	1910	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. 9 1/2 feet.		Dry	Wet
Month	Sept	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.	Bulb.	Bulb.
Day.	Civil Time.	Hour.												No.	No.
2	4		<del>Immensely downy</del>					Max temp 20.59				New barometer orig one.	8395	8396	
	8													(8393)	(8394)
	NOON		{ Current in last hours mls. }												
	4														
	8									SSW	2.3	30.58	60	(56.1)	(47.9)
	MIDT.									SE	1.	30.60	59	(57)	(49)
3	4									SE	1.2	30.55	57	57.2	49.1
	8									W	2	30.57	60	(57.4)	(50.3)
	NOON		{ Current in last hours mls. }							NW	2	30.56	63	(61)	(52.6)
	4									WNW	2.3	30.47	63	61.6	-
	8									SW	1.2	30.45	63	(60.0)	(52.2)
	MIDT.									Calm	0	30.38	61	(60.0)	(53)
4	4									SE	2	30.23	60	58.0	52.1
	8									NE	3.	30.10	62	59.9	53.8
	NOON		{ Current in last hours mls. }							NE	3.4	29.97	64	60.9	54.9
	4									NW	4.5	29.79	64	60.6	54.1
	8									NW	5	29.65	61	57.0	52.0
	MIDT.									WNW	6.8	29.50	58	56.5	52.5
5	4									WNW	8	29.53	54	(52.0)	(48.2)
	8							63	obs at 9	WNW	8	29.67	66	47.2	44.2
	NOON		{ Current in last hours mls. }							WNW	9	29.67	58	47.3	43.0
	1.30									WS	8	29.76	56	43.0	41.5
	4									W	8-10			43.1	41.0
	8									WS	7-10	29.93	53		
	MIDT.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from Simon's Bay to Melbourne.

Clouds.		Weather.		Sea Surface.		Remarks.	
Hour.	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.	According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves. Direction from. 0 to 10.	Swell. Direction from. 0 to 10.	Temp. by No.	Spec. Grav. by No.
	Names. Upper. Lower.						
4							
8							
NOON							
4							
8	Str. 1	3				58.5	
MIDT.	Str. 2	bc				59.8	
4	Str. 2	bc				58.0	
8	Cum 4	c				58.1	
NOON	Str. 2	bc				58.5	
4		c				58.5	
8	Str. 1	bc				64.3	
MIDT.	Cum 4	bc				62	
4	Cir s. Str. 4	bc				63.1	
8	Alts Cum 4	bc				64.9	
NOON	Cir s. Cum 5	bc				63.9	
4	Alts Cum 7	c				63.1	
8	Cum 3	bc				62.8	
MIDT.	Cum 8	cg				61	
4	Cum 6	gp				55	
8	Nim 10	gp				54	
NOON	Cum 3	gp				55.4	
4	Nim 10	gp				54.2	
8	Nim 2	gbc				55	
MIDT.	Nim 2	gbc				55.6	
2a							

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.		
Year 19	Month	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	True Course.	Distance by Log.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb. No.	Wet Bulb. No.
													Uncorrected Reading.	Att. Therm.		
The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.																
Day.	Civil Time.	Hour.														
6	4	38	48	24	44				28°00.		WS.	8	30.03	51	43.8	39.7
	8	38	47	25	13				48	06°00 at 9.0	WSW	7.8	15	53	47.2	39.8
	NOON	38	46	25	42					1.0	WS	7	26	55	49.0	44.3
	4	38	46	26	10						WS	7	32	55	49.9	43.9
	8	38	46	26	37						WSW	6	41	58	47.2	44.0
	MIDT.	38	46	27	05						SW	2.5	46	53	47	46.2
7	4	38	46	27	32						SW	3.5	30.49	50	(46.6)	
	8	38	46	27	59				51		WSW	3	52	53	50.8	45.3
	NOON	38	46	28	26						SW	3.4	52	57	53.5	47.5
	4	38	57	29	03						SE	1.2	49	51	53.0	47.5
	8	39	9	29	41						NE	1.2	50	55	52.8	47.0
	MIDT.	39	20	30	18						NE	1.2	49	55	53.8	48
8	4	39	32	30	56				28°00.		NE	4	30.45	56	53.8	48.1
	8	39	44	31	34				55		NE	3.4	42	56	53.5	49.2
	NOON	39	56	32	12						NE	4	40	58	56.2	52.0
	4	39	55	32	40						NE	3	35	62	(55.0)	
	8	39	54	33	9						SE	1.2	40	59	(54.0)	
	MIDT.	39	53	33	27						SE	2	41	58	(52.5)	
9	4	39	51	33	56						SE	6	30.45	56	(50.0)	
	8	39	48	34	25						SE	6	52	57	49.5	46.5
	NOON	39	38	34	52						SE	7	48	59		
	4	39	29	34	59						SE	7	44	60	55.1	52.0
	8	39	20	35	06						SE	7	44	64	56.6	55.0
	MIDT.	39	10	35	12						SE	8.9	33	64	(57.8)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		Weather.	Sea Surface.				Remarks.	
	Upper.	Lower.		Waves.	Direction from.	Disturbance 0 to 10.	Temp. by No.		
4	Cum.	7	cp	W	8		52.2	Middle squalls less frequent.	
8	Cu	3	bc	W	8	W	55.8	Morning occasional squalls at 5.45 with hail & rain.	
NOON	Cu	5	bc	W	8	W	58.2	Afternoon few squalls and rain.	
4	Cu	5	bc	W	8	W	59.0	4.0 showers about. swell with app. cross from S.	
8	St	8	cp	W	8	W		dof. light squalls with wind SW.	
MIDT.	St	8	bc	W	8	W	58.7	8.0 squall mod. rain wind SW 4. & veered to SW (unsteady) increased to 5.	
4	St	7	cp	W	8	W	57.0	midnight general wind dir SW with frequent rain squalls force 5 from SE to SW.	
8	Cu	3	bc	W	8	W	56.5	much phosphorescence.	
NOON	Cu	8	c	W	8	W	62.9	All. 3.30 Wind SW squall rain came from WSW	
4	Cu	3	bc	W	8	W	62.6	3.40 wind shifted to WS then SW & fell light with rain.	
8	Cu	2	bc	W	8	W	63.0	6.0 light air.	
MIDT.	Cu	4	bc	W	8	W	62	7.30 wind increased WSW 3.	
4	St	4	bc	W	8	W	60	8.0 swell 20 feet showers about clouds only on hor.	
8	Cu	10	c	W	8	W	55.8	Noon swell over 20'	
NOON	St	10	oc	W	8	W	57.4	1.30 PM wind backed ESE 1.	
4	St	10	oc	W	8	W	58.1	4.0 showers to 4.00.	
8	St	10	oc	W	8	W	55.0	5.30 wind backed to NE 1.2. var. in dir. & puffy.	
MIDT.	St	10	oc	W	8	W	55.8	7.0 dark part of moon very distinct.	
4	St	10	oc	W	8	W	54.8	8.0 clouds round horizon only.	
8	Cu	10	oc	W	8	W	57.2	9.00 slight shower wind inc'd to 5	
NOON	St	10	oc	W	8	W	60.0	10.00 Cu. St. / St. / Cu. Ni 10. showers about.	
4	St	10	oc	W	8	W	61.0	During P.M. showers of slight rain.	
8	St	10	oc	W	8	W	60.8	8.00 P.M. occasional showers of slight rain.	
MIDT.	St	10	oc	W	8	W	61.0	Afternoon wind variable in dir. occas. drizzle.	
4	St	10	oc	W	8	W	61.0	4.0 wind varying in dir. through 2 points.	
8	St	10	oc	W	8	W	61.0	dof. rain dr. to slight occasionally moderate.	
MIDT.	St	10	oc	W	8	W	61.0	5.30 wind eased to 2. 7.0. wind backed gradually to WSW	
4	St	10	oc	W	8	W	61.0	+ inc'd to 2.3. puffy variable.	
8	St	10	oc	W	8	W	61.0	8.30 wind to 5. 1.2.	
MIDT.	St	10	oc	W	8	W	61.0	Clocks on. 20" to 2" 20" fast on G.M.T.	
4	St	10	oc	W	8	W	61.0	7.00 occasional drop of rain during middle.	
8	St	10	oc	W	8	W	61.0	Middle slight passing showers.	
NOON	St	10	oc	W	8	W	61.0	2.30 wind inc'd rapidly to 5 & inc'd to 6.	
4	St	10	oc	W	8	W	61.0	6.00 wind inc'd to 8 during 1st day sea increasing.	
8	St	10	oc	W	8	W	61.0	7.30 commenced to rain - drizzle wind eased to 5.	
MIDT.	St	10	oc	W	8	W	61.0	8.00 Clocks on 5" to 2" 35" fast on G.M.T.	
4	St	10	oc	W	8	W	61.0	first frequent squalls.	
8	St	10	oc	W	8	W	61.0	2 1/2 hrs rain.	
MIDT.	St	10	oc	W	8	W	61.0		

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.	Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.* No.	Thermometers.	
Year 19	10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.	Dry Bulb.
Month	Sept	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.			Uncorrected Reading.	Att. Therm.	Wet Bulb.
Day.	Civil Time.	Hour.										
10	4	39	0	35	15				ESE	8.9	30.19	65
	8	38	50	35	24				SE <sup>6</sup> E	8.9	.09	64
	NOON	38	58	35	24				E <sup>6</sup> N	4	.06	63
	4	39	14	35	41				E <sup>6</sup> S	4	29.97	63
	8	39	30	35	58				E <sup>6</sup>	1.2	.97	68
	MIDT.	39	35	36	28				SE <sup>6</sup>	1	.94	65
11	4	39	40	36	57				SW	5	29.96	60
	8	39	45	37	26				W <sup>6</sup> S	5	.96	58
	NOON	39	50	37	36				W <sup>6</sup> N	4.5	.97	56
	4	39	52	38	18				W <sup>6</sup> S	3.4	.97	58
	8	39	55	38	41				WNW	2.3	30.03	62
	MIDT.	39	57	39	03				WSW	2	.07	60
12	4	39	57	39	27				N <sup>6</sup>	1	30.04	57
	8	39	57	40	00				W <sup>6</sup>	3	.13	58
	NOON	39	57	40	34				WNW	3	.12	60
	4	39	58	41	22				W <sup>6</sup>	1	.08	62
	8	39	59	42	10				N	2.3	.04	59
	MIDT.	40	00	42	57				N	4.5	29.93	58
13	4	40	00	43	47				N <sup>6</sup> E	5	29.77	59
	8	40	00	44	17				WSW	7	.77	51
	NOON	40	00	45	5				WSW	6	.86	60
	4	39	55	45	50				WSW	6.8	.83	56
	8	39	49	46	35				SW <sup>6</sup> W	7.9		
	MIDT.	39	44	47	20				SW <sup>6</sup> W	8-10	30.16	53

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Sea Surface.				Spec. Grav. by No.	Time of Remark.	Remarks.
	Names.	Prop. of Sky Unclouded. 0 to 10.			Waves.		Swell.				
					Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.			
Upper.	Lower.										
4	Str	Nim	10	04 RQ	SE <sup>6</sup>	7			60.2		Middle slight rain all water
8		Nim	10	04 D	SE <sup>6</sup>	7	SE <sup>6</sup>	7			Morning drizzle all water
NOON		Nim	10	02 R	SE <sup>6</sup>	4	SE <sup>6</sup>	7	62.1		8.30 wind increased to 9 & began to back
4		Nim	10	02 1/2 R	SE <sup>6</sup>	4	SE <sup>6</sup>	7	61.8		forenoon wind easing to E <sup>6</sup> S. rain ceased to slight.
8		Nim	10	02 R							11.0 wind E <sup>6</sup> N. 4.5
MIDT.		Nim	10	01 R							11.40-12.30 moderate rain
4	St/Ni		10	01 1/2 D					56		2-4.30 P.M. rain mod to heavy. wind veering
8	Ci St		10	0C. 3 1/2 D	WSW	6	WSW	6	56.2		4.30-5. rain dr. to slight. wind backed to NE <sup>6</sup> 3.4
NOON	Ci St.	6		b.c.	WS	5	WS	7	55.8		6.0 St/Ci St/Ni 9 wind NE <sup>6</sup> 2 occasional puff.
4	Ci St.	1		b.	WS	4	WS	6	54		7.15 Rain dr-slight. 11.0 wind veered to SE
8	Ci St	8		c	WS	2	WS	6	54.0		Clocks on 5 <sup>m</sup> to 2 <sup>30</sup> fast on Gmt.
MIDT.	Ci St	8		c		2	WS	5	53.2		3.0 breeze from S <sup>6</sup> veered to W <sup>6</sup> & increased 3.5
4			0	6 m w		1	WS	5	51.5		3.0-7.30 drizzle
8	Ci St.		3	b.c.	WS	2	WS	5	54.5		3 P.M. clear sky. 4.0 wind puffy.
NOON	Ci St.		6	b.c.	WSW	3	WS	5	54.2		4.30 wind dropped to 2.2.
4	Alt s. Cum s.	8		c.		1	WS	5	53.8262		5.20 Cum s. & wind W <sup>6</sup> N 3. puffy
8	Alt s. Cum s.	8		c					54.9		6-6.30 drizzle
MIDT.	Alt s. Cum s.	6		b.c.	WS	2	WS	5	56.		6.45 fog 1. in NW quarter only.
4	Ci s.	Sto.	10	ocpl	WS	3	WS	5	55.1		night Corona round moon.
8	Ni/ST		10	ocpl	WSW	6	WSW	6	54.6		Clocks on 15 <sup>m</sup> to 2 <sup>45</sup> fast on Gmt.
NOON	some Cu	Ci St	6	b.c.	WSW	7	WSW	7	53.8		1.15 Alt. A. St/Ci St/1-b. 2.0 slight mist
4	Alt s.	Cu	6	Cg.p.	WSW	7	WSW	8	54.5		3.0 wind dropped - calm.
8		Nim	10	ocp	WSW	7	WSW	8			3.40 light N <sup>6</sup> breeze backing at 5 to WS 3.
MIDT.			5	b.c.g.p.h	WSW	8	WS	8			8.20 light shower.
2a			17								4.30 P.M. wind calm.
			18								5.30 wind N <sup>6</sup> 1.2.
			19								6.30 overcast thin Ci St. halo 22° 40' also com
			19a								8.30 slight mist to NW <sup>6</sup>
			20								10.40 wind freshened from N.
			20a								midnight wind freshening
			21								
			21a								
			22								
			23								
			24								
			25								

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.	Total Compass Error.	Ship's Head.	Wind, at the time of observation.	Barometer.*	Thermometers.	
Year	19	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction, State if true, or subject to Compass Error, or only to Variation.	No.	Dry Bulb.	Wet Bulb.
Month	Sept	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.		Force, 0 to 12.	Height of Cistern above Sea, feet.		
Day, Civil Time.	Hour.									Uncorrected Reading.	Att. Therm.	
14	4	39	38	47	50		28°W.		SW <sup>6</sup> W	8.9	30.27	53
	8	39	33	48	34		49	0623	SW <sup>6</sup> W	5	39	48
NOON		39	27	49	18				W <sup>2</sup> W	4	42	54
	4	39	31	49	55				W	3	41	53
	8	39	31	50	32				W <sup>6</sup> W	2	49	58
MIDT.		39	38	51	09				W <sup>6</sup> W	2	49	53
15	4	39	40	51	36				N <sup>6</sup> E	3.4	30.46	51
	8	39	44	52	13		51	0623	NW	4	45	53
NOON		39	48	52	50		28°W.		NW	4	40	58
	4	39	51	53	39				NW	4.5	31	58
	8	39	53	54	28				NW	4	31	59
MIDT.		39	56	55	17				NW	5	27	60
16	4	39	58	55	58		28°W.		NW <sup>6</sup> N	4-6	30.23	58
	8	40	0	56	47		57	0623	NW <sup>6</sup> N	4-5	19	60
NOON		40	3	57	35				NW <sup>6</sup> N	4-5	19	64
	4	40	0	58	23				NW	4-5	12	64
	8	39	57	59	11				NW	4-5	11	65
MIDT.		39	54	59	59				NW <sup>6</sup> N	5	09	64
17	4	39	52	60	30				NW <sup>6</sup> N	5-6	30.07	62
	8	39	49	61	17		59	0623	NW	4-5	08	62
NOON		39	45	62	04				NW	2	06	61
	4	39	42	62	34				SW <sup>6</sup> W	1.2	05	62
	8	39	38	63	13				NW	4	03	64
MIDT.		39	33	64	01				N <sup>6</sup> W	5	00	62

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		Weather.		Sea Surface.					Remarks.		
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.			High Spec. Grav. by No.
	Names.	Prop. of Sky Observed. 0 to 10.			Direction from.	Dis- tance. 0 to 10.	Direction from.	Dis- tance. 0 to 10.				
										Upper.	Lower.	
4		Cum s.	5	bc			SW 8			53.3		Clocks on 20 <sup>m</sup> to 3 <sup>h</sup> 25 <sup>m</sup> fast on G.M.T.
8.9		Cum s	8	C			SW 6	SW 8	8	55.5		4.0 Squalls less frequent at times wind dropping to 1.
NOON		Cum s.	10	oc			SW 5	SW 8	8	54.0		Morning no rain, squalls less frequent & less force.
4		Cum s	10	oc.			WSW 5	W 4	8	54.8		noon swell 18 feet. 3. PM. wind eased to 3.
8.30		Cum s	7	C				W 2	7	55.8		4.0 PM. swell up to 20' <sup>4.45</sup> wind eased to 2.3.
MIDT.		Cum s	8	bc.				SSW 2	8	50.4		6.0 Cum s 9 clouds overhead light. wind W 2.3 light.
4		St.	6	bc			1	WSW 6	6	49.0		6.50 Corona. rad. of brown ring 1.45 <sup>m</sup> .
8.9		Cum s.	7	C			nmw 4	W 8	8	56.2	26.5	8.0 Cum s. clouds light & high from. W 5. 2.
NOON		Cum s	10	C			nmw 5	W 8	8	57.1		10.0 SSW 9 swell forming
4		Cum s	8	C			nmw 4	W 8	8	57.0		Mid <sup>6</sup> cross swell.
8		St	10	oc			nmw 4	W 7	7	56.9		
MIDT.		Cum s	10	oc			nmw 5	W 7	7	57.1		
4		St.	10	oc.			nmw 5	W 6	6	57.2		Clocks on 10 <sup>m</sup> to 3 <sup>h</sup> 50 <sup>m</sup> fast on G.M.T.
8.9		St. Cu	4	bc.			nmw 6	W 7	7	56.9		4.0 middle wind steady in dir. & force 4-6
NOON		St.	2	bc.			nmw 5	W 7	7	55.4		overcast all watch - drizzle at 3.50.
4		St.	6	bc.			nmw 4	W 8	8	57.5		10.50 short drizzle
8		St.	10	oc			nmw 4	W 6	6	58.3		noon swell up to 13'
MIDT.		St.	10	oc 3.2			nmw 4	W 6	6	58.1		4.0 PM. The W <sup>6</sup> S. swell much the greater again
4		St/Nb.	10	of 2.2			nmw 4	W 6	6	56		5.15 Clouded over St-Cu 10 wind increased to 5
8.9		St/Nb.	10	of 4.2			nmw 4	W 8	8	55.9		7.0 drizzle
NOON		Nb	10	of 4. R.			nmw 2	W 8	8	56.0		8.0 drizzle off on.
4		Nb	10	of 4. R/4 F			Conf 3.	W 8	8	55.1		9.15-12.00 drizzle.
8		A-Cu	7	C.			nmw 3	W 8	8	55.4		
MIDT.		Ci	8	C			nmw 4			55.8		
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.		Ship's Head.		Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 1910		Observed.		Observed.		Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.		By same Compass as Wind.		Direction, State if true or subject to Compass Error, or only to Variation.		Height of Cistern above Sea.		Dry Bulb.	
Month Sept		Dead Reckoning.		Dead Reckoning.		True Course.		Distance by Log.		Force, 0 to 12.		Uncorrected Reading.		Att. Therm.		No.	
Day, Civil Time.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.	
18		4		39		29		64		33		27.0		15		5.6	
		8		39		24		64		21		58		NW		5	
NOON		{		{		{		{		{		{		{		{	
		39		20		66		9		ms.		NW		5.6		.91	
4		{		{		{		{		{		{		{		{	
		39		15		66		54				W		4		.91	
8		{		{		{		{		{		{		{		{	
		39		10		67		39				W		5		30.01	
MIDT.		{		{		{		{		{		{		{		{	
		39		7		68		9				SW		5		.04	
19		4		39		2		68		55		40		5		30.08	
		8		38		57		69		40		58		SW		4	
NOON		{		{		{		{		{		{		{		{	
		38		53		70		25		ms.		W		3.4		.21	
4		{		{		{		{		{		{		{		{	
		38		52		71		06				W		3.4		.16	
8		{		{		{		{		{		{		{		{	
		38		51		71		47				W		3		.16	
MIDT.		{		{		{		{		{		{		{		{	
		38		50		72		17				W		3.4		.16	
20		4		38		49		72		58		W		5		30.095	
		8		38		48		73		39		54		W		5	
NOON		{		{		{		{		{		{		{		{	
		38		46		74		19		ms.		W		5		.05	
4		{		{		{		{		{		{		{		{	
		38		45		75		04				W		4.5		29.98	
8		{		{		{		{		{		{		{		{	
		38		44		75		49				W		3.4		.96	
MIDT.		{		{		{		{		{		{		{		{	
		38		43		76		34				W		4		.92	
21		4		38		42		77		19		W		6.7		29.85	
		8		38		43		77		49		55		SW		8.9	
NOON		{		{		{		{		{		{		{		{	
		38		44		78		10		ms.		SW		8		30.074	
4		{		{		{		{		{		{		{		{	
		38		46		78		35				SW		5.6		.10	
8		{		{		{		{		{		{		{		{	
		38		49		79		01				SW		3.4		.18	
MIDT.		{		{		{		{		{		{		{		{	
		38		51		79		21				SW		3.4		.20	

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Clouds.				Weather.		Sea Surface.				Remarks.			
Hour.	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts, Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Names.		Prop. of Sky Unclouded. 0 to 10.			Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
	Upper.	Lower.											
4	Ci St	St Cu	7	Cb		NW	4	W	7	56.1		Clocks on 15 <sup>m</sup> to 4 <sup>h</sup> . 25 <sup>m</sup> fast on Gmt.	
8	A St	St Cu	5	bc.		MTW	5	W	8	56.2		4.0 steady increase in wind. Ci-Cu from MTW downy. 8.0 W swell <sup>1/2</sup> over 20' 10.0 Drizzle	
NOON		St Cu	10	0 1/2 R	1	MTW	6	W	8	55.8		10.30 fog. Dr. to slight rain. noon. Rain mod. W swell very long. 12.30 rain clapp.	
4	A St	Cu. Nb	10	0 1/2 R		MTW	6	W	7	55.0	26.5	12.30 Cl from MTW (Cu) 3.30. Wind MTW 4. 4 PM. dense Ci St. clouds, swells 14' each.	
8	A St	Cu	8	0 1/2 R		W	6	W	7.8	54.9		4.50. Wind backed to W 1/2 N increased to force 5 5.30 Wind 27 <sup>miles</sup> by gauge 9.45-10.15. rain.	
MIDT.	Ci St	Cu Nb	7	bc.		SWW	6	W	7	55		Clocks on 20 <sup>m</sup> 10.50. wind shifted from W to SW W. 11.15. Slight shower accompanied by wind backing to SW.	
4	Ci St	St Cu	3	bc.		SW	6	W	7	55.1		4.0 Wind steady in force but inclined to S 5 <sup>h</sup> clearing. clouds from SW. moderately fast	
8		Cu St Cu	2	bc		SW	5	W	7	53.8	26.3	1.50 PM. Rain squall with wind WNW while it lasted	
NOON	A Cu	St Cu	3	bc.		W	5	W	7	54.3		4.30. Showers about. 5.45. Wind eased to 2.3 puffy & varying	
4	A Cu	Cu St Cu	3	bc.		W	4	W	7.8	55.0		two points in dir. 6.45 Wind veered to WNW. 3+ became steadier.	
8		Cu Nb	8	c		W	3	W	7.8	55.8		in 1 <sup>st</sup> dog. - passing showers. 8.0 Showers about	
MIDT.	St Cu	Cu Nb		bc.		W	3	W	6.7	54.1		11.0 clocks on 15 <sup>m</sup> to 5 <sup>h</sup> . 0 <sup>m</sup> fast on Gmt. 11.50-11.55 light rain.	
4	Ci St	St Cu	5	bcyp.		W	6			55		2.0 Two squalls force 6. with passing showers of 20 <sup>h</sup>	
8		St Cu	5	bc.		WNW	6	WNW	7	55		4.0 Squall heavy Cu with Ci. St. above. 9.0 Shower.	
NOON	A St.	St Cu	3	bc		WNW	6	WNW	7	54.9		noon. light Ci haze over most of sky. 2.45 Rain squall. R. mod. from WSW (wind unsteady)	
4	A St.	St Cu	6	bc.		WNW	6	W	7	54.1		4.0 Rain to R. 6.30 Wind eased 3.4. occas <sup>l</sup> showers in dog.	
8		St Cu	2	bc		WNW	4	WNW	7	53.9		9.50 3 min mod. rain + squall. 11.15 20m. mod. rain.	
MIDT.	Ci St.	Nb.	4	bcy.		W	5	W	7			Clocks on 15 <sup>m</sup> to 5 <sup>h</sup> . 15 <sup>m</sup> fast. on Gmt.	
4	A St.	St Cu	10	ogp.		W	7			53.		4 AM. from 2. Squalls from SW. Rain 2 hrs. Thick weather	
8	A Cu	Cu	6	bcyp.		SW	7	SW	8			4.15 Lunar rainbow. white arc. 10 <sup>h</sup> . 2 auricles. Morning. wind steadied into fresh SW gale	
NOON		St Cu	6	bcy.		SW	7	SW	8	53.0		heavy rain + sleet squalls (9 force) Forenoon no rain at ship till noon - squall force 8	
4		bcy				SW	6	SW	8	52.6		4.45 pm. rain squalls all round. Dogs. occasional spots of rain, occasional	
8	St Cu		8	c						53		squalls up to force 5 little or no rain in them.	
MIDT.		Cu	10	ogp		SW + WSW	7			52.1		11.00 Clocks on 10 <sup>m</sup> to 5 <sup>h</sup> . 25 <sup>m</sup> fast on Gmt.	
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25	



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.		Ship's Head.		Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 19		Observed.		Observed.		Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.		By same Compass as Wind.		Direction. State if true, or subject to Compass Error, or only to Variation.		Height of Cistern above Sea 7 1/2 feet.		Dry Bulb.	
Month		Dead Reckoning.		Dead Reckoning.		True Course.		Distance by Log.		Force. 0 to 12.		Uncorrected Reading.		Att. Therm.		Wet Bulb.	
Day.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.		Hour.	
Sept																	
22																	
4		38		54		79		47				W NW		4		30.16	
8		38		56		80		12				W NW		4		.18	
NOON		38		58		80		37				W NW		4		.145	
4		39		01		81		07				W NW		4		.06	
8		39		04		81		38				W NW		4		.10	
MIDT.		39		06		82		02				W		3.4		.10	
23																	
4		39		09		82		33				W NW		4		30.13	
8		39		12		83		03				W NW		3		.20	
NOON		39		15		83		33				W		3		.20	
4		39		16		83		47				W		2.3		.21	
8		39		17		84		01				W NW		1.2		.27	
MIDT.		39		18		84		15				Calm		0		.25	
24																	
4		39		19		84		30				W NW		2		30.21	
8		39		20		84		44				W NW		1.2		.20	
NOON		39		21		84		58				W NW		3		.23	
4		39		21		84		58				W NW		3		.20	
8		39		21		84		58				W NW		3		.20	
MIDT.		39		21		84		58				W NW		3		.20	
25																	
4		39		43		86		50				W NW		4		30.065	
8		39		49		87		19				W NW		4.5		.001	
NOON		39		54		87		48				W NW		5		.29	
4		39		54		87		48				W NW		6		.85	
8		39		54		87		48				W NW		5.6		.78	
MIDT.		39		54		87		48				W NW		6.7		.74	

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Clouds.		Weather.		Sea Surface.		Remarks.	
The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.		Waves.		Swell.	
Names.		Fog Intensity.		Direction from.		Direction from.	
Upper.		0 to 5.		0 to 10.		0 to 10.	
Prop. of Sky 0 to 10.		Also record when Confused.		Temp. by No.		Spec. Grav. by No.	
Hour.		Time of Remark.		Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)		Time of Remark.	
4		C. St. Cu 5		bcp.		W 3. WNW 7	
8		A. St. Cu 8		cp.		W 5. W 7	
NOON		C. St. Cu 7		bc.		WNW 5. W 7	
4		A. St. Cu 2		bc.		W 7. W 7	
8		St. Cu 3		bcp.		W 7. W 7	
MIDT.		St. Cu 3		bcg		W 7. W 7	
4		A. St. Cu 5		cb.		WNW 4. W 7	
8		Cu 9		oc.		WNW 4. WNW 7	
NOON		A. Cu 8		c.		W 4. W 8	
4		A. Cu 9		c.		W 3. W 7	
8		10		oc.		52	
MIDT.		No Cu. St. 6		bc.		W 5. W 5	
4		C. St. Cu 4		bcp.		WNW 5. W 5	
8		A. St. Cu 8		bcp.		W 2. W 7	
NOON		A. St. Cu 7		bc.		W 3. W 7	
4		A. St. Cu 1		b.		WNW 3. W 7	
8		St. Cu 3		bc.		52.8	
MIDT.		St. Cu 5		bc.		51.9	
4		A. St. St. 6		cb.		W 6. W 5	
8		A. St. St. 10		oc.		WNW 4. W 5	
NOON		St. St. Cu 10		ocm.		WNW 5. W 5	
4		St. St. Cu 10		oc.		WNW 5. W 5	
8		St. 10		oc.		51.8	
MIDT.		St. 10		oc.		51.9	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 19	Month	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	True Course.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea.....feet.		Dry Bulb.	Wet Bulb.
Day, Civil Time.	Hour.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				Distance by Log.						Uncorrected Reading.	Att. Therm.	No.	No.
26 <sup>th</sup>	4	40	14	90	08.					Two.		29.80	54	48.5	47.0
	8	40	20	90	46			53.	22	W	4.5	91	51	49.9	43.9
	NOON	40	26	91	24					60°S.	4.5	95	51	44.1	43.0
	4	Current in last hours								W	3.4	99	51	49.0	43.8
	8									W	3.	30.06	50	48.0	43.9
	MIDT.									100°W.	2-4	1.0	48	46.8	43.3
27	4									SWW.	3.5	30.17	46.5	45.3	42.3
	8							50	13	WSW	4	29	49	45.9	42.6
	NOON									WSW	3.4	32	50	48.2	43.0
	4	Current in last hours								WSW	3.4	37	49	47.1	42.2
	8									WSW	3.4	43	48	46.9	42.2
	MIDT.									SW°S.	3.4	45	46.6	45	40
28.	4									SW°S.	4	30.47	45.7	44.1	39.8
	8							49		S	2	50	49	48.8	42.3
	NOON									S	2.	50	53		
	4	Current in last hours								S	1.	48	53	46.8	40.0
	8									Calm	0	46	52	47.5	40.0
	MIDT.									Calm	0	45	56.5	47.2	39.4
29.	4							29°W.		S	2	30.40	55	48.4	42.0
	8							4		E	2.3	37	54	46.4	40.7
	NOON	41	24	99	57			48		ENE	2.	33	57	46.8	40.05
	4	Current in last hours								E	2	32	56.6	46.9	40.2
	8									NE	1.	32	54	46.9	41.1
	MIDT.									E°N-E°S.	3.4	41	52	46.2	42.6
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

Captain

from

to

Hour.	Clouds.		Weather.		Sea Surface.				Remarks.									
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.		Waves.		Swell.		Temp.		Spec. Grav.		Time of Remark.		Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)			
	Names.		Fog Intensity.		Direction from.		Disturbance 0 to 10.		by No.		by No.		Time of Remark.					
	Upper.	Lower.	Prop. Sky Clear.	0 to 5.	Also record when Confused.													
4	St	10	ogd.	Two	6								1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	8	bc.	W	5	W	7	51.1	27				1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
NOON	St. Cu	5	bcp.	W	5	W	7	51.4					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	6	bc.	W	4	W	7	50.6					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	1	b.			W	7	50.9					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
MIDT.	St. Cu	4	bcp.	WSW	3	W	7	48.2					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	3	bcp.	SW	3	W	6	49.8					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	6	bc.	WSW	4	WSW	7	51.0	27.2				1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
NOON	St. Cu	6	bc.	WSW	4	W	8	51.2					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	4	bc.	WSW	4	WSW	7	51.0					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	5	bc.					50.9					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
MIDT.	St. Cu	3	bc.	SW	4	WSW	6	48.8					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	3	bcp.	SW	4	W	6	48.8					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	4	bc.					50.9					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
NOON	St. Cu	7	c.					50.4	27				1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	7	c.					50.1					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	5	bc.					50					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
MIDT.	St. Cu	10	oc.					50					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	10	oc.					50					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	9	c.					50					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
NOON	St. Cu	3	bc.	ENE	2	WSW	6	50.4	27.2				1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
4	St. Cu	4	bc.	ENE	2	WSW	5	51					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
8	St. Cu	10	oc.					50.7					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				
MIDT.	St. Cu	9	oc.	ENE	3			49.8					1.0	Wind steadied at Two. (4). At 3. heavy squall from Two. When overhead wind flew suddenly to S.W. (6) later (5). Bar. started to rise above.				

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.		Ship's Head.		Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 1910		Observed.		Observed.		Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.		By same Compass as Wind.		Direction, State if true, or subject to Compass Error, or only to Variation.		Height of Cistern above Sea.		Dry Bulb.	
Month Sept		Dead Reckoning.		Dead Reckoning.		True Course.		Distance by Log.		Force, 0 to 12.		Uncorrected Reading.		Att. Therm.		No.	
Day, Civil Time.		Hour.		Hour.		Current in last hours		mils.									
30.		4						29°W.		SE		2.					
89.								50.		E		2.3.					
NOON										ENE		2.					
4										East		2.					
8										NE		1.					
MIDT.																	
30.		4						29°W.		E <sup>5</sup> S		3.4		30.295		51.5	
89.								50.		E <sup>6</sup> N		3.4		30.36		52	
NOON										E <sup>6</sup> N		3.4		37		56	
4										E		3.4		38		57	
8										E <sup>5</sup> S		3.		43		54	
MIDT.										E <sup>6</sup>		3		44		54	
Oct.		4								E <sup>5</sup> S		3.		30.435		53	
89.								28°W.		E <sup>6</sup> N		3.4		45		54	
NOON								27°W.		E <sup>6</sup> N		3.		44		57	
4								49.		ENE		2.		40		56	
8								26°W.		ENE		2		34		55	
MIDT.										ENE		2		35		54.6	
2.		4						26°W.		NE		3		30.28		51	
89.								48		NE		3		25		53	
NOON										NE		3		23		55	
4										NE		3		21		54	
8										NE		3		22		54	
MIDT.										N		3		22		55	

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Captain

from

to

Clouds.				Weather.		Sea Surface.						Remarks.	
Hour.	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Names.		Prop. of Sky Clouded. 0 to 10.			Direction from.	Disturbance 0 to 10.	Direction from.	Disturbance 0 to 10.				
	Upper.	Lower.											
4													
8													2.0. Clocks on. 10 <sup>m</sup> to 7 <sup>00</sup> fast on GWT.
NOON													4.0 Clouds slowly working over from E after 2 hrs very filmy. St from same dir <sup>n</sup> .
4													3.45 Aurora Aust. b.g. 20° W. a perp bar of light for 2 <sup>m</sup> . Sky to S <sup>d</sup> bright all watch
8													6.0 Wind backed to E <sup>W</sup> .
MIDT.													4 Pm. Slight showers about.
													4.30 Bank of st. clouds approaching from NW <sup>①</sup>
													other lower clouds from E
													5.15. This cloud passed over ship. Wind to E <sup>W</sup> 34
4	ci st.	st	7	cb.		E <sup>W</sup>	3.			50			slight rain, wind veering again to E <sup>W</sup> after.
8	A st	Cu	8	c		E <sup>W</sup>	4	E <sup>W</sup>	3.	50			5.45. Dark. ci-st clouds to NW W <sup>W</sup> above
NOON	ci ci st	Cu.	3.	bc.		E <sup>W</sup>	4	E	3.	50			Flare A st. & overhead a great deal of cirrus stripes appearing to converge on N.W. point. The stripes soon broke up
4	ci ci st	Cu	4	bc.		E	4	E	4	50.1			were replaced by irregular masses of cirrus
8	st	2.		see remarks				E	4	50.2			8.10. A sort of mist over whole sky through which the stars shine dimly.
MIDT.	st	4	bc			E <sup>W</sup>	3			49.2			Mid <sup>5</sup> no change in sky.
4	st	10	oc.			E	3.	E <sup>W</sup>	6	50			4.0 Breeze steady. slight mist over sky.
8	Cu st	9	c.			E <sup>W</sup>	3	E <sup>W</sup>	7	50			5.30. Wind E <sup>W</sup> 12. Slight E <sup>W</sup> swell, long W <sup>W</sup> one 20 high
NOON	ci ci st	8	bc					E	4				Forenoon. A st over much of sky sun shining through
4	ci ci st	9	c.			E <sup>W</sup>	3	E <sup>W</sup>	5	50			4.0 W <sup>W</sup> swell. very long. E <sup>W</sup> much shorter.
8	ci ci st	8	bc					E	4				4.0 W <sup>W</sup> dark ab. st. + fracto Cum. above.
NOON	ci ci st	8	bc					E	4				Low cirrus through which sun dimly shines
4	ci ci st	9	c.				2			50.1			5.0 Sky over lower clouds now. ci cu ci st. - a
8	st	10	oc.							50.1			very pretty line of stratus radiating from NW of horizon.
MIDT.	st	4	bc.			E <sup>W</sup>	3	E <sup>W</sup>	7	49.7			Lower clouds detached masses of st cu from NW.
													no change to NW.
													Mid <sup>5</sup> wind inclined to be free
4	A st	st	8	cb.		NE <sup>W</sup>	3	W <sup>W</sup>	6				2.0 Clocks on 10 <sup>m</sup> to 7 <sup>10</sup> fast on GWT.
8	st	10	oc.			NE <sup>W</sup>	3.	NE	7.8	50.3	26.8		1.0 Lightning & W, wind unsteady inclined to be 6.0
NOON	A st	10	oc.			NE	3	SE	7	50.0			4.0 Wind unsteady. Cloud moving now from NE
4	st	10	oc.			NE	3.	SE	8	49.6			Forenoon. - inclined to drizzle.
8	st	9	oc 20							49.8			1. Pm. Sun shining through dimly.
MIDT.	st	10	od.			NE	3			49.5			Afternoon Wind very gradually backing.
													4.0 A westerly swell coming up. much smaller
													Flare st <sup>W</sup> .
													6.10 Commenced to rain drizzle wind eased 2.3
													8.0. Stars showing overhead.
													8.35. Sky overcast completely - inclined to drizzle
													Mid <sup>5</sup> . Slight drizzle all watch.
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25	



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.		Ship's Head.		Wind, at the time of observation.		Barometer.*		Thermometers.	
Year	Month	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.	True Course.	Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction, State if variable, or subject to Compass Error, or only to Variation.	Force, 0 to 12.	Uncorrected Reading.	Att. Therm.	Dry Bulb.	Wet Bulb.		
Day, Civil Time.	Hour.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				Distance by Log.											
3.	4							49		N	4	30.205	53.6	47.2	46.9		
	8.9.							24W		N	3	.23	55	48.9			
	NOON	42	17	111	18					NW 1/2 N	3	.25	53	49.1	46.3		
	4	Current in last hours						22W		NW 1/2 N	3	.25	55	48.4	46.2		
	8									NW 1/2 N	3	.28	56	49.0	46.0		
	MIDT.									NW 1/2 N	3	.28	56	49.0	45.8		
4.	4							19W		NW 1/2 W	3.4	30.285	55	49.2	46		
	8							50.		NW 1/2 W	3	.33	51	49.2	46.8		
	NOON	42	5	114	41					NW	3	.35	57	50.0	47.9		
	4	Current in last hours						18W		WNW	3	.37	58	50.2	47.9		
	8									W	2	.44	60	48.3	47.0		
	MIDT.									SW 1/2 S	3	.43	54.6	48.0	44.3		
5.	4							17W		WNW	3	30.42	52	46.2	43		
	8.9							50		W	3	.46	55	48.2	44.1		
	NOON	41	49	118	1					WNW	2.3	.46	56	49	45.8		
	4	Current in last hours						15W		WNW	3.4	.41	55	49.1	46.6		
	8									WNW	3.4	.41	57	49.4	46.8		
	MIDT.									NW 1/2 W	4	.37	56.2	50	48		
6.	4							13W		NW 1/2 W	5	30.32	54	49.0	48.1		
	8.45							50		WNW	4	.32	53	50.0	47.3		
	NOON	41	46	121	42					NW 1/2 W	4	.295	54.2	50	48.3		
	4	Current in last hours						11W	21	NW 1/2 W	4.5	.24	56	49.8	47.0		
	8									NW	4.5	.21	58	49.0	47.1		
	MIDT.									NW 1/2 W	5.6	.13	56.8	49.5	47.8		

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Captain

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to

Hour.	Clouds.		Weather.		Sea Surface.					Remarks.			
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts. Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)	
	Names.				Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.					
	Upper.	Lower.											Also record when Confused.
4	St	St.	10	ocpd.	N <sup>W</sup>	3.	SE <sup>9</sup>	6.	49.1	4.0 dr. on off for about 1 hr. in all. Sky overcast. Dark banks of dr. moving over. wind slightly increased.			
8		St Cu	10	oc.	N <sup>W</sup>	3.	SW <sup>3</sup>	6.	49.6	9.0 Drizzle part of night.			
NOON		St/ St Cu	10.	oc.	MTW	3.	SE <sup>1</sup> W <sup>1</sup>	6.	49.6	12.0 Sun shining through drizzle. Afternoon Rain (dr) through part of water for 1 hr.			
4	St.	St. Cu.	8.	CIR.	MTW	3.	SE <sup>1</sup> W	6.7	49.4	9.0 Wind eased 2-3.			
8		St Cu	6.	bc.					50	11.30 to mid <sup>5</sup> Inclined to drizzle.			
MIDT.		St/min	10	bc.					49.8	11.30 Wind MTW.			
4		St	10	ocpd	MTW	3.	SE <sup>9</sup>	5	49.8	4.0 dr. Showers of slight dr. - breeze unsteady from W to NW. Sky slightly clearing at times.			
8	St.	St-Cu	10	oc.	NW	3.	SE <sup>1</sup>	5	49.3 27.2	9.0 The wind swells the 7. 10.30 passed kelp, inclined to dr.			
NOON	St. Cu	St Cu	9	bc	NW	3.	W	5	49.8	3.0 Wind backed to NW.			
4	St. Cu	St/Cu	5	bc.	WNW	3.	W <sup>1</sup> WNW <sup>1</sup>	5	49.4	4.0 SE swell just noticeable under the W.			
8	St	2	bc.			2	W	4	48.3	5.0 Rain (mod) wind backed low & dropped to 2.			
MIDT.	St	2	bc.		WS.	2	W <sup>1</sup>	4	49.9	5.50 Rain stopped 6.0. Rain NW storm passed to E. 9.38 6" light rain. Wind W during rain squall after squall sky clearing.			
4	St.	9	oc		WNW	3	W <sup>1</sup>	4	48	10.5. Sky illum'd by partial aurora wind increased to 3.			
8	St. Cu	10	oc		W	3	W <sup>1</sup>	6	49.8	Mid <sup>5</sup> Sky towd. still illuminated.			
NOON	St Cu	9	oc		W	3.	WNW	6	49.9	10-2.0 Aurora Aust. from SE to S to WSW. Arc rising about 20° rays at times to 35°.			
4	St/ St Cu	10	oc		W	3	WNW	7.8	50.0	color fades green.			
8	St Cu	10	oc						50.0	4.0 Wind inclined to overcast. Sky partially clear.			
MIDT.	St Cu/ Min	10	oc.						50	4.0 Swell long. rain gauge last 2 hrs. .05 in.			
4	St.	10	ocpd.		WNW	5	W <sup>1</sup>	6	49.5	4.0 Wind working from WSW to SW during forenoon.			
8	St. Cu	7.	bc 1/2 R.		WNW	5	WNW	6	48.8 27.1	0.20 Rain. Inclined to drizzle.			
NOON	St. Cu	4	bc.		NW	5	WNW	6	49.3	4.0 Appearance of rain to NW.			
4	St. St-Cu	9	c.		WNW	5	W	7	49.5	9.57 Commenced to drizzle - 13".			
8	St. St-Cu	9	ocpd.						49.4				
MIDT.	St-Cu Nb.	6.	bc 1/2 R.		NW <sup>1</sup>	5			49.7	Clocks on 10m to 8.15 fast on Gmt.			
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25	

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 19 <u>10</u>		Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern		Dry Bulb.	Wet Bulb.
Month <u>Oct.</u>		The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					above Sea	feet.		
Day.	Hour.													and the wet bulb being untainted by salt water.	
<u>7</u>	<u>4</u>							<u>9W</u>		<u>WN</u>	<u>7</u>	<u>30.04</u>	<u>54.5</u>	<u>49</u>	<u>48</u>
	<u>89.</u>							<u>50</u>	<u>32.</u>	<u>WNW</u>	<u>6.</u>	<u>.01</u>	<u>57</u>	<u>49.2</u>	<u>47.8</u>
	NOON	<u>41</u>	<u>38.</u>	<u>126</u>	<u>27</u>					<u>WNW</u>	<u>6.7</u>	<u>29.97</u>	<u>56.2</u>	<u>49.8</u>	<u>48.3</u>
	<u>4</u>	Current in last hours								<u>WN</u>	<u>5.6</u>	<u>.92</u>	<u>57</u>	<u>50.2</u>	<u>49.5</u>
	<u>8</u>									<u>WS</u>	<u>3.</u>	<u>.92</u>	<u>58</u>	<u>48.8</u>	<u>46.2</u>
	MIDT.									<u>WNW</u>	<u>3</u>	<u>.99</u>	<u>54.1</u>	<u>48</u>	<u>45</u>
<u>8</u>	<u>4</u>							<u>8W</u>		<u>WNW</u>	<u>4</u>	<u>29.80</u>	<u>48.4</u>	<u>48.4</u>	<u>43.6</u>
	<u>89</u>							<u>50.</u>		<u>WNW</u>	<u>4.5</u>	<u>.84</u>	<u>48</u>	<u>47.0</u>	<u>42.3</u>
	NOON	<u>41</u>	<u>08</u>	<u>128</u>	<u>43.</u>			<u>6W</u>		<u>WNW</u>	<u>5.6.</u>	<u>.84</u>	<u>49.7</u>	<u>43.7</u>	<u>40.5</u>
	<u>4</u>	Current in last hours								<u>WNW</u>	<u>6.7</u>	<u>.83</u>	<u>49</u>	<u>46.7</u>	<u>42.3</u>
	<u>8</u>							<u>2W</u>		<u>WNW</u>	<u>5.6.</u>	<u>.88</u>	<u>51</u>	<u>46.5</u>	<u>40.3</u>
	MIDT.									<u>WNW</u>	<u>6.7</u>	<u>.86</u>	<u>50</u>	<u>45.1</u>	<u>40.2</u>
<u>9</u>	<u>4</u>							<u>2W</u>		<u>WNW</u>	<u>7.</u>	<u>29.84</u>	<u>48</u>	<u>42.7</u>	<u>39.3</u>
	<u>8</u>									<u>SW.</u>	<u>7.8.</u>	<u>.87.</u>	<u>47</u>	<u>42.5</u>	<u>39.8</u>
	NOON	<u>40</u>	<u>28</u>	<u>133</u>	<u>35</u>			<u>2.20</u> <sup>2</sup> <u>36m</u> <u>believe</u> <u>equal.</u>		<u>WNW</u>	<u>8</u>	<u>.95</u>	<u>48.5</u>	<u>44.0</u>	<u>41.0</u>
	<u>4</u>	Current in last hours								<u>SW</u>	<u>7-9</u>	<u>.99.</u>	<u>49</u>	<u>45.5</u>	<u>40.8</u>
	<u>8</u>									<u>SW</u>	<u>6.</u>	<u>30.09</u>	<u>52</u>	<u>46.0</u>	<u>41.7</u>
	MIDT.									<u>SS.</u>	<u>6-9</u>	<u>.15</u>	<u>51.6</u>	<u>46</u>	<u>42</u>
<u>9</u>	<u>4</u>							<u>2W</u>							
	<u>8</u>														
	NOON														
	<u>4</u>	Current in last hours													
	<u>8</u>														
	MIDT.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.

## Captain

from

to

Hour.	Clouds.			Weather.		Sea Surface.					Remarks.	
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.			According to Beaufort Notation.	Fog Intensity. 0 to 5.	Waves.		Swell.		Temp. by No.		Spec. Grav. by No.
	Names.					Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.			
	Upper.	Lower.	Prop. of Sky Clouded. 0 to 10.									
4		St	7	bcgpd		Wnw	7			49		4.00 Gradual increase in wind, strong gusts before after patches of st passing over. Aurora Aust (N. breeze)
8	Cu Cu	St	6	bcgp.		Wnw	6	Wnw	7	49.9		Morning - passing showers dr - slight. generally with an increase of wind, wind unsteady in dir.
NOON		St Cu	10	ocgpd.		Wnw	7	Wnw	7	50.7		Dr. off on all forenoon. Slight increase in wind force. Sea getting up. fog 2.
4		St / Nb.	10	oc 30.		Wnw	6	Wnw	7	50.8		4.00 P.M. 3 hrs dr. stop 2. Wind taking off + dr. ceased about 3.15
8		St / Nim	10	oc 20 P.						50.4		Dogs. Showers of dr. all watch always overcast. 7.0 Wind gradually easing 10.20 unsteady between W & Wsw.
MIDT.		St / Nim	10	ocdm						49.8		About 2 1/2 hrs dr.
4		St	10	ocgpd		W	6	Wnw	6	48.8		4.00 P.M. About 2 1/2 hrs. dr. wind unsteady, force 3-4
8		Cu St-Cu	4	bc		Sw	5	Sw	8	49.0	27.2	Sw W - west. At 2.45 Squall worked over from Sw to S. force 6. Wind shifted to S by Sw for 15 mi.
NOON		Cu St	6	bcgp.		Sw	6	Sw	8	49.8		Morning till 6.0 Squall with mod. rain. Twice in these squalls wind shifted to S & Wsw
4		Cu	5	bcgp.		Sw	7	Sw	8	49.9		at start + flew to S of W. towards end. Afterwards gradually returning to normal dir.
8		Cu St-Cu	6	bcp.		Sw	6	Sw	8	50.0		9.0 Showers about. by gauge .08 in last 4 hrs. 10.05. Squalls of force 6 with 12" hail. + rain
MIDT.		St Cu	7	bcp		Sw	7	Sw	8	50		wind veered to W. during squall. Noon wind working between Sw & W. west.
4	1.0 After this squalls came over at about 10" intervals each increasing in force. with											occasional squalls accompanied by light rain.
8	4.0-5.0 Frequent showers of hail but little increase of wind with them which was											blowing a steady 7.
NOON	5.0 Wind inclined to ease											6.0 Swell & waves combined 24'
4	7.0 Dark portion of moon showing clearly, slight corona when clouds pass over moon											
8	8.0 Many showers about - none at ship from 6.0-7.05											
MIDT.	Mid! Many squalls during watch. force 7. No rain in squall.											See Barographs on 8 <sup>th</sup> + 9 <sup>th</sup> for jumps when squalls struck ship.
4		Cu Nb	5	bcgph		Wsw	7					4.0 Frequent squalls force up to nearly 8 in gusts. wind
8		Cu	3	bcgph		Sw	7	Sw	8			unsteady. greatest force before + after clouds pass over
NOON		Cu Nb.	bcgph		Sw	7	Sw	8				Morning - passing squalls with steel.
4		Cu	5	bcgph.		SSW	7	SSW	8			6.30 Heavy squall (9) no rain, after more squalls with
8		Cu Nb	2	bcgph.		SSW	7	SSW	8			Afternoon Heavy frequent squalls up to 7. with hail
MIDT.		Cu	4	bcgph		SSW	7	SSW	8			11.45 Hail with stones up to 1/4" diam.
2a	17	18	19	19a	20	21	20a	21a	22	23	24	4.0 Squalls frequent up to (9-10) - sometimes hail
												Dogs. wind easing between squalls, wind in squall
												unsteady (2 1/2 hrs var). waves & swell up to 2.5'
												Mid! Frequent squalls + hail + rain force 9
												between squalls force 6. Wind inclined to ease
												4.0 Hail + rain in watch, Ci St. visible 10.30-11.30

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.* No.		Thermometers.	
Year	19 10	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea.....feet.		Dry Bulb.	Wet Bulb.
						True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.		
The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.															
Day.	Hour.														
Civil Time.															
10	4							N. 1		S <sup>6</sup> W.	7-9.	30.25	47	46.0	42.8
	8 9.							48		S <sup>6</sup> E.	5	.25	48	46.8	42.8
	NOON	39	34	136	52					S <sup>6</sup> W	5.6.	.26	50.5	49.6	43.
	4	Current in last hours								S	4.5	.28	49	48.5	44.1
	8									S.	4	.32	54	49.5	44.7
	MIDT.									S	3.4	.29	58.3	49.8	45.2
11	4							1 E		S. 6	4	30.24	53.8		
	8 9.									S <sup>6</sup> W	3.4	.26	56	51.1	46.8
	NOON							2 E		W <sup>6</sup> W	3.	.25	56.9	51.8	46.2
	4	Current in last hours								W <sup>6</sup> S	3.4	.20	58	51.9	46.2
	8 30							4 E		W <sup>6</sup> S	3.	.17	58	52.1	47.3
	MIDT.									W	3.4	.12	57.1	52.7	49
	4														
	8														
	NOON														
	4	Current in last hours													
	8														
	MIDT.														
12	4									W <sup>6</sup> W	4.5	30.05	49	52.9	49.
	8														
	NOON														
	4	Current in last hours													
	8														
	MIDT.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 19	Month	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb.	Wet Bulb.
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Captain

from

to

Hour.	Clouds.			Weather.	Sea Surface.				Remarks.			
	The direction from which the upper clouds are moving, and also that of the lower clouds when they do not move with the wind, should be noted when determinable.				Waves.		Swell.		Temp. by No.	Spec. Grav. by No.	Time of Remark.	Here give any important Remarks as to phenomena, with the times of their occurrence; especially the times of Changes in Direction and Force of Wind, as well as the Direction, Veering or Backing, Force and Duration of Squalls; the direction from which upper clouds are moving; the Position of Ice and of Derelicts, Also note the hour at which the Ship arrives in or leaves Port. (See "Instructions" for further particulars.)
	Names.				Direction from.	Disturbance. 0 to 10.	Direction from.	Disturbance. 0 to 10.				
	Upper.	Lower.	Prop. of Sky Clouded. 0 to 10.		According to Beaufort Notation.	Fog Intensity. 0 to 5.	Also record when Confused.					
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Meteorological Log kept on board

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8															
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Captain

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

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Captain

from

to

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	Upper.	Lower.			Prop. of Sky Clouded. 0 to 10.	Also record when Confused.														
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MIDT.																				
2a	17	18	19	19a	20	21	20a	21a	22	23	24	25								

so that in the event of the Office Barometer being broken, the Ship's can be taken into use, and its error can be ascertained.



# Meteorological Log kept on board

DATE.		Latitude.		Longitude.		Course and Distance.		Total Compass Error.	Ship's Head.	Wind, at the time of observation.		Barometer.*		Thermometers.	
Year 19	Month	Observed.	Dead Reckoning.	Observed.	Dead Reckoning.	Each four hours.		Of Compass used for Wind, being Variation and Deviation combined.	By same Compass as Wind.	Direction. State if true, or subject to Compass Error, or only to Variation.	Force. 0 to 12.	Height of Cistern above Sea. feet.		Dry Bulb.	Wet Bulb.
Day. Civil Time.	Hour.	The D.R. position is needed daily, in addition to that by Observation, but it should be the result of careful calculation, in order to give any value to the estimation of the current.				True Course.	Distance by Log.					Uncorrected Reading.	Att. Therm.	No.	No.
	4														
	8														
	NOON	{ Current in last hours mls. }													
	4														
	8														
	MIDT.														
	4														
	8														
	NOON	{ Current in last hours mls. }													
	4														
	8														
	MIDT.														
	4														
	8														
	NOON	{ Current in last hours mls. }													
	4														
	8														
	MIDT.														
	4														
	8														
	NOON	{ Current in last hours mls. }													
	4														
	8														
	MIDT.														

and the wet bulb being untainted by salt water.  
 are in working order; the dry bulb being free of moisture  
 thermometers, the observer should satisfy himself that both  
 Before accepting the readings of the dry and wet bulb

\* Please give Readings of the Ship's Barometer, say at Noon, at various times during the voyage noting whether it is mercurial or aneroid.



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