

July 1, 1937 Itasca

LOG of the United States Coast Guard

*Cutter Itasca*  
*Drifting Westward*  
 (Location) *Hawland Island*

Hour	NAUTICAL MILES	TENTHS	PATENT LOG		AVERAGE REVOLUTIONS	TENTHS	COURSE (P. S. C.)	WIND		BAROMETER	TEMPERATURE			WEATHER BY SYMBOLS	CLOUDS			VISIBILITY	SEA	
			NAUTICAL MILES	TENTHS				DIRECTION	FORCE		HEIGHT IN INCHES	AIR, DRY BULB	AIR, WET BULB		WATER AT SURFACE	FORM	MOVING FROM		AMOUNT	CONDITION
A. M.																				
1								NNE	3	29.81	81	78	82	bc	CU	ENE	2	8	1	NNE
2								NE	3	29.79	81	78	82	bc	CU	NE	3	8	1	NNE
3								NE	3	29.78	81	78	82	b	-	-	-	8	1	NNE
4								NE	3	29.78	81	78	82	bc	CU	NE	2	8	1	NNE
5								ENE	3	29.78	81	78	82	bc	CU	NE	2	9	1	ENE
6								ENE	3	29.77	81	78	82	bc	CU	NE	3	9	2	ENE
7	10	8			102		90	ENE	3	29.82	82	79	82	bc	CU	NE	3	9	2	ENE
8	7	3			116			ENE	2	29.84	82	79	82	bc	CU	NE	2	9	1	ENE
9								ENE	2	29.85	83	80	83	bc	CU	ENE	2	9	1	ENE
10								NE	3	29.85	84	80	83	bc	CU	ENE	2	9	2	ENE
11								NE	3	29.84	84	80	83	bc	CU	ENE	3	9	2	ENE
12								NE	2	29.84	85	81	83	bc	CU	ENE	2	9	2	ENE
P. M.								NESE	2	29.88	86	82	82	bc	CU	E	4	9	2	ENE
1	4	5			60			NEXE	2	29.80	86	82	82	bc	CU	E	4	9	2	ENE
2								NEXE	2	29.79	88	83	82	bc	CU	E	7	9	2	ENE
3	1	6			51			NEXE	2	29.79	86	82	82	bc	CU	E	6	9	2	ENE
4		6			56			ENE	2	29.79	89	83	82	bc	CU	E	3	9	2	NE
5								ENE	2	29.88	87	83	82	bc	CU	NE	2	9	2	NE
6	1	9			62			NE	3	29.81	83	80	82	bc	CU	NE	4	8	2	NE
7	2	3			55		330	NE	3	29.82	82	80	82	bc	CU	NE	3	8	2	NE
8	1	2			58			NE	3	29.83	82	79	82	b				8	2	NE
9		6			56			NE	2	29.84	81	79	82	b				8	2	NE
10								NE	2	29.84	81	79	82	bc	CU	E	1	8	2	NE
11	1				50			NE	2	29.89	81	79	82	bc	CU	E	1	8	2	NE
12								NE	2	29.89	81	79	82	bc	CU	E	1	8	2	NE

At anchor \_\_\_\_\_ hrs. \_\_\_\_\_ min.  
 Underway \_\_\_\_\_ 24 hrs. \_\_\_\_\_ min.  
 Total miles cruised \_\_\_\_\_ 31.8  
 Officers present \_\_\_\_\_ 8  
 W. O. present \_\_\_\_\_ 4  
 Enlisted force present \_\_\_\_\_ 85

Authorized number in general mess \_\_\_\_\_ 87  
 Extra numbers in general mess \_\_\_\_\_ 8  
 Total \_\_\_\_\_ 95  
 Rations commuted in general mess \_\_\_\_\_ 10  
 Members absent in general mess \_\_\_\_\_ 10  
 Vacancies in general mess \_\_\_\_\_  
 Total \_\_\_\_\_ 20  
 Number of rations issued \_\_\_\_\_ 75

Vessels boarded { American \_\_\_\_\_  
 Foreign \_\_\_\_\_  
 Motor boats boarded { American \_\_\_\_\_  
 Foreign \_\_\_\_\_  
 Vessels reported \_\_\_\_\_  
 Motor boats reported \_\_\_\_\_  
 Cases of assistance \_\_\_\_\_  
 Lives saved \_\_\_\_\_

Derelicts or obstructions removed \_\_\_\_\_  
 Regattas or marine parades patrolled \_\_\_\_\_  
 Drills held (enumerate) \_\_\_\_\_  
 Quarters \_\_\_\_\_  
 Resuscitation drill \_\_\_\_\_  
 Gun drill \_\_\_\_\_

Compass \_\_\_\_\_  
 Ship's head \_\_\_\_\_  
 Error \_\_\_\_\_  
 Variation \_\_\_\_\_  
 Deviation \_\_\_\_\_  
 Received \_\_\_\_\_  
 Expended \_\_\_\_\_  
 On hand \_\_\_\_\_  
 Received \_\_\_\_\_  
 Expended \_\_\_\_\_  
 On hand \_\_\_\_\_  
 Distilled \_\_\_\_\_  
 Received \_\_\_\_\_  
 Expended \_\_\_\_\_  
 On hand \_\_\_\_\_  
 Noon Position: \_\_\_\_\_  
 HAWLAND ISLAND  
 N. PACIFIC OCEAN  
 Latitude \_\_\_\_\_  
 Longitude \_\_\_\_\_  
 Latitude \_\_\_\_\_  
 Longitude \_\_\_\_\_  
 Latitude \_\_\_\_\_  
 Longitude \_\_\_\_\_  
 Current { Set \_\_\_\_\_  
 Drift \_\_\_\_\_  
 MAGAZINE TEMPERATURES:  
 Maximum \_\_\_\_\_ 82-83-84  
 Minimum \_\_\_\_\_ 81-82-83

1st day of month

Force 2 wind

Visiblity 9

From: ITASCA.

To : Naval Radio Samoa; FAB Pearl Harbor: Com SF Div.

Inf.: ComHawSec.

Temp. 86

6001 ITASDA 61008 76700 05201 10986 62254 20010 HOWLAND ISLAND 2981 87

78 2/10 Cu SUR ENE14 1ENE18 2ENE19 3ENE24 4ENE26 5ENE25 6ENE30 7ENE30

9ENE31 9200 1330.

1330 Itasca time



## 8. Arrangement of Universal Data and explanation of symbols—

UNIVERSAL DATA: PQLL 11GG DDFww BBVT	FIRST GROUP—Symbols PQLL:
	P— <i>Day of week</i> : See Code Table I. The observer will be careful to code the day of week as at Greenwich and not the local day. When an observation is taken at 0000 G. M. T., the day of the week should be coded as the day just beginning and not the day just ended.
	Q— <i>Octant of globe</i> : See Code Table II. Determined by position of ship. Example: "Ship is in north latitude and between 0° and 90° W."—code figure 0.
	LLL— <i>Latitude</i> : Ship's position. (No code table necessary.) Record latitude in degrees and minutes but code in degrees and tenths, the tenths being obtained by dividing minutes by 6 and neglecting the remainder. Example: "Lat. N. 42° 38'" —code figures 426.
UNIVERSAL DATA: PQLL 11GG DDFww BBVT	SECOND GROUP—Symbols 11GG:
	11— <i>Longitude</i> : Ship's position. (No code table necessary.) Record longitude in degrees and minutes and code in same manner as for latitude. Example: "Long. W. 46° 22'" —code figures 463. If longitude is 100° or more, omit the first figure (1). The fact that longitude is 100° or in excess thereof, will be indicated by the code figure showing octant of globe (Q). Example: "Long. W. 123° 41'" —code figures 236.
	GG— <i>Time of observation, G. M. T.</i> : (No code table necessary.) Greenwich mean time, 24-hour system. The day begins at midnight (0000). Unless otherwise instructed, regular observations will be taken at midnight (0000) and noon (1200). If observation is not taken on the hour, code the nearest hour. Example: "0000 G. M. T." —code figures 00. See paragraph 22 regarding special observations.
	THIRD GROUP—Symbols DDFww:
UNIVERSAL DATA: PQLL 11GG DDFww BBVT	DD— <i>Wind direction</i> : See Code Table III. Direction from which wind is blowing. Record and code to 16 points, using only code figures in full face type in Table III. Example: "SSE."—code figure 14.
	F— <i>Wind force (Beaufort)</i> : See Code Table V. Record wind force according to Beaufort scale. Example: "Moderate Gale"—code figure 7.
	ww— <i>Present weather</i> : See Code Table VI. Weather at time of observation. Example: "Cloudy"—code figures 02.
	FOURTH GROUP—Symbols BBVT:
UNIVERSAL DATA: PQLL 11GG DDFww BBVT	BB— <i>Barometer</i> : See Code Table VIII. Record corrected reading in inches or millibars, according to type of barometer used on board. Example: "29.74 in."—code figures 07. (Note—Code figures 07 are last two figures of the equivalent in whole millibars.)
	V— <i>Visibility</i> : See Code Table XII. Example: "Poor Visibility"—code figure 5.
	TT— <i>Temperature of air (F.°)</i> : (No code table necessary.) Record temperature to nearest whole degree Fahrenheit. Example: "54°"—code figures 54.

## 9. Arrangement of Supplemental Data (6) and explanation of symbols.—

SUPPLEMENTAL DATA: 6KdCN t <sub>d</sub> d <sub>s</sub> AWC <sub>n</sub>	FIFTH GROUP—Symbols 6KdCN:
	6— <i>Group index</i> : This is a code figure to identify the supplemental data being used. For these supplemental data the code figure is always 6 and is so entered in column (e).
	K— <i>Swell</i> : See Code Table XIX. Character of swell. Example: "Heavy swell, long"—code figure 8.
	d— <i>Direction of swell</i> : See Code Table IV. True direction from which swell is moving. Example: "SW"—code figure 5.
SUPPLEMENTAL DATA: 6KdCN t <sub>d</sub> d <sub>s</sub> AWC <sub>n</sub>	C— <i>Predominating cloud</i> : See Code Table XVI. Example: "Strato-cumulus"—code figure 6.
	N— <i>Cloud amount</i> : See Code Table XVII. Amount of sky covered by clouds, recorded in tenths. Example: "0.7 to 0.8"—code figure 5.
	SIXTH GROUP—Symbols t <sub>d</sub> d <sub>s</sub> AWC <sub>n</sub> :
	t <sub>d</sub> — <i>Temperature difference (air and water)</i> : See Code Table XVIII. Difference between temperature of air and temperature of water at or near surface. Example: "Air 4° lower"—code figure 7.
SUPPLEMENTAL DATA: 6KdCN t <sub>d</sub> d <sub>s</sub> AWC <sub>n</sub>	d <sub>s</sub> — <i>Course of ship</i> : See Code Table IV. General direction toward which ship is moving, recorded to 8 cardinal points. Example: "NE"—code figure 1.
	A— <i>Barometric tendency</i> : See Code Table IX. Give change during 3 hours preceding observation. Example: "Barometer falling. Has fallen 0.08 inch in last 3 hours"—code figure 6.
	W— <i>Past weather</i> : See Code Table VII. General characteristics of weather during 3 hours preceding the observation. Example: "Showers"—code figure 7.
	C <sub>n</sub> — <i>Form of upper cloud</i> : See Code Table XV. This relates only to forms of cirrus or cirro-stratus clouds. Example: "Cirrus, fine, increasing"—code figure 4.

## MAILING FORMS

21. At the end of each return voyage to a United States port, mail original copies of Form 1210—Marine and the duplicate copies of Form 1204 to the Weather Bureau office from which the observer receives his instructions. Special envelopes, which require no additional postage, will be provided for the purpose.

## SPECIAL OBSERVATIONS

22. Occasionally special observations will be taken and forwarded by radio. They may be taken on the initiative of the vessel master when unusual weather conditions exist, or on call by the United States Weather Bureau in connection with special service. Such special observations will follow the same procedure as in regular observations, care being taken to indicate accurately the time the special observation is taken.

The following is a sample of Form 1210—Marine with an observation entered and coded.

Form 1210—Marine.

No. 45

Name of ship: *S. S. America.*

Date *January 28, 1930.*

Radio messages addressed to OBSERVER, WASHINGTON.

	(a) Description of data	(b) Code index	(c) Code table	(d) Observation as taken	(e) Observation as coded	(f) Group position in message
Universal Data: BBVTT DDFww 111GG PQLLL	Day of week.....	P	I.....	Tuesday.....	3	First.
	Octant of globe.....	Q	II.....	North latitude between 0° and 90° W.....	0	
	Latitude.....	L L L		North 42° 38'.....	4 2 6	
	Longitude.....	1 1 1		West 46° 22'.....	4 6 3	Second.
	Time of observation (G. M. T.).....	G G		0000 G. M. T.....	0 0	
	Wind direction (true).....	D D	III.....	S. SE.....	1 4	Third.
	Wind force (Beaufort).....	F	V.....	Moderate gale.....	7	
	Present weather.....	w w	VI.....	Cloudy.....	0 2	Fourth.
	Barometer.....	B B	VIII.....	29.74.....	0 7	
	Visibility.....	V	XII.....	Poor visibility.....	5	
	Temperature of air ° F.....	T T		54° F.....	5 4	
Supplemental Data (6): 6KdCN t <sub>d</sub> d <sub>s</sub> AWC <sub>H</sub>	Group index (Sup.).....	6			6	Fifth.
	Swell.....	K	XIX.....	Heavy swell, long.....	8	
	Direction of swell.....	d	IV.....	SW.....	5	
	Predominating cloud.....	C	XVI.....	St. cu.....	6	
	Cloud amount.....	N	XVII.....	7 to 8 tenths.....	5	Sixth.
	Temperature difference, air and water.....	t <sub>d</sub>	XVIII.....	Air 4° lower.....	7	
	Course of ship.....	d <sub>s</sub>	IV.....	NE.....	1	
	Barometric tendency.....	A	IX.....	Fall of 0.08 inch.....	6	
	Past weather.....	W	VII.....	Showers.....	7	
	Form of upper cloud.....	C <sub>H</sub>	XV.....	Cirrus, fine, increasing.....	4	

## CODE TABLES

### Code Table I

*Symbol P—Day of the week*

Day	Code figures
Sunday-----	1
Monday-----	2
Tuesday-----	3
Wednesday-----	4
Thursday-----	5
Friday-----	6
Saturday-----	7

### Code Table II

*Symbol Q—Octant of the globe*

Longitude	Code figures
North latitude:	
0° W. to 90° W-----	0
90° W. to 180° W-----	1
180° E. to 90° E-----	2
90° E. to 0° E-----	3
South latitude:	
0° W. to 90° W-----	5
90° W. to 180° W-----	6
180° E. to 90° E-----	7
90° E. to 0° E-----	8

## Code Table XI

*Symbols bb—Barometer change*

(Amount of rise or fall of the barometer in the last three hours)

Code figure	Amount of rise or fall		Code figure	Amount of rise or fall		Code figure	Amount of rise or fall		Code figure	Amount of rise or fall	
	Milli-bars	Inch		Milli-bars	Inch		Milli-bars	Inch		Milli-bars	Inch
01	0.2	0.01	23	4.6	0.14	45	9.0	0.27	67	13.4	0.40
02	.4	.01	24	4.8	.14	46	9.2	.28	68	13.6	.41
03	.6	.02	25	5.0	.15	47	9.4	.28	69	13.8	.41
04	.8	.02	26	5.2	.16	48	9.6	.29	70	14.0	.42
05	1.0	.03	27	5.4	.16	49	9.8	.29	71	14.2	.43
06	1.2	.04	28	5.6	.17	50	10.0	.30	72	14.4	.43
07	1.4	.04	29	5.8	.17	51	10.2	.31	73	14.6	.44
08	1.6	.05	30	6.0	.18	52	10.4	.31	74	14.8	.44
09	1.8	.05	31	6.2	.19	53	10.6	.32	75	15.0	.45
10	2.0	.06	32	6.4	.19	54	10.8	.32	76	15.2	.46
11	2.2	.07	33	6.6	.20	55	11.0	.33	77	15.4	.46
12	2.4	.07	34	6.8	.20	56	11.2	.34	78	15.6	.47
13	2.6	.08	35	7.0	.21	57	11.4	.34	79	15.8	.47
14	2.8	.08	36	7.2	.22	58	11.6	.35	80	16.0	.48
15	3.0	.09	37	7.4	.22	59	11.8	.35	81	16.2	.49
16	3.2	.10	38	7.6	.23	60	12.0	.36	82	16.4	.49
17	3.4	.10	39	7.8	.23	61	12.2	.37	83	16.6	.50
18	3.6	.11	40	8.0	.24	62	12.4	.37	84	16.8	.50
19	3.8	.11	41	8.2	.25	63	12.6	.38	85	17.0	.51
20	4.0	.12	42	8.4	.25	64	12.8	.38	86	17.2	.52
21	4.2	.13	43	8.6	.26	65	13.0	.39	87	17.4	.52
22	4.4	.13	44	8.8	.26	66	13.2	.40			

## Code Table XII

*Symbol V—Visibility*

Code figures	Visibility
0	Dense fog. (Objects not visible at 50 yards.)
1	Thick fog. (Objects not visible at 200 yards.)
2	Fog. (Objects not visible at 500 yards.)
3	Moderate fog. (Objects not visible at ½ nautical mile.)
4	Mist or haze, or very poor visibility. (Objects not visible at 1 nautical mile.)
5	Poor visibility. (Objects not visible at 2 nautical miles.)
6	Moderate visibility. (Objects not visible at 5 nautical miles.)
7	Good visibility. (Objects not visible at 10 nautical miles.)
8	Very good visibility. (Objects not visible at 30 nautical miles.)
9	Excellent visibility. (Objects visible at more than 30 nautical miles.)



65-601-CONFIDENTIAL. 7/19/37.  
ITASCA. Radio Transcripts Earhart Flight.

From: ITASCA.  
To : Fleet Air Base, Pearl Harbor; Com SF Div.; Naval Radio Samoa.  
Inf. : ComHawSec.  
6001 ITASCA 51008 76812 06301 10982 61183 40000 FANNING AND CHRISTMAS  
ISLANDS UNRECORDED 0108.

From: SWAN.  
To : Fleet Air Base; Governor Samoa; ITASCA; WB Washington; WB SFO.  
1001 51114 67212 07401 10881 64114 5X512 0100.

From: Fleet Air Base, Pearl Harbor.  
To : Naval Radio Tutuila; ITASCA.  
2501 FOR EARHART LAE ACCURATE FORECAST DIFFICULT ACCOUNT LACK OF REPORTS  
YOUR VICINITY PERIOD CONDITIONS APPEAR GENERALLY AVERAGE OVER ROUTE NO  
MAJOR STORMS APPARENT PERIOD PARTLY CLOUDY SKIES WITH DANGEROUS LOCAL  
RAIN SQUALLS ABOUT THREE HUNDRED MILES EAST OF LAE AND SCATTERED HEAVY  
SHOWERS REMAINDER OF ROUTE PERIOD WINDS EAST SOUTHEAST ABOUT TWENTY FIVE  
KNOTS TO ONTARIO AND THEN EAST TO EAST NORTHEAST ABOUT TWENTY KNOTS TO  
HOWLAND 0735.

From: Howland Island.  
To : ITASCA.  
BAKER WEATHER:  
29.80 83 76 ENE1 12 5/10 Cu.  
HOWLAND WEATHER:  
29.81 83.5 76.5 E16 4/10 Cu.

From: Naval Radio Tutuila.  
To : Fleet Air Base, Pearl Harbor; SWAN; ITASCA; Com SF Div.;  
ComHawSec.  
0101 IMPERATIVE ONTARIO LEAVE EARHART FLIGHT STATION FOR TUTUILA NOT  
LATER THAN 1800 SATURDAY 3 JULY ZONE MINUS ELEVEN 1120.

From: Howland Island.  
To : ITASCA.  
29.81 87 78 2/10 Cu SUR ENE14 1ENE18 2ENE19 3ENE24 4ENE26 5ENE25 6ENE30  
7ENE30 9ENE31 9200.

From: ITASCA.  
To : Naval Radio Samoa; FAB Pearl Harbor; Com SF Div.  
Inf.: ComHawSec.  
6001 ITASDA 61008 76700 05201 10986 62254 20010 HOWLAND ISLAND 2981 87  
78 2/10 Cu SUR ENE14 1ENE18 2ENE19 3ENE24 4ENE26 5ENE25 6ENE30 7ENE30  
9ENE31 9200 1330.

From: SWAN.  
To : Fleet Air Base, Pearl Harbor; Governor Samoa; ITASCA;  
WB Washington; WB SFO.  
1001 61114 67200 06401 10883 65164 4X011 1300.