53

N. Nav. 32. (Aug., 1928)

SEP 6 - 1938

LOG BOOK

OF THE

U. S. S. ONTARIO AT13

AT13 Rate,

COMMANDED BY

William Stamps Howard, jr., Lieutenant, U. S. Navy,

Attached to Station Ship Division,
U. S. NAVAL STATION Squadron,
Tutuila, American Samoa Fleet,

Commencing 1 July, 19 38 ,

at Tutuila, American Samoa ,

and ending 31 July, 19 38 ,

at Tutuila, American Samoa

1928

4—2503

(This page to be sent to Bureau of Navigation monthly with Log sheets.)

GOVERNMENT PRINTING OFFICE

LIST OF OFFICERS

Attached to and on board of the U. S. S. ONTARIO (AT13), commanded by W. S. HOWARD, Lieutenant, U. S. N., during the period covered by this Log Book, with date of reporting for duty, detachment, transfer, or death, from 1 July, 1938, to 31 July, 1938

NAME.	RANK.	DATE OF REPORTING FOR DUTY.	DETACHED. DATE.	DUTIES.
HOWARD, William S., jr.	Lieutenant	12/4/37		Commanding.
				Navigator.
				Gunnery Officer.
				Stores Officer.
				Commissary Officer.

Examined and found to be correct.

W. S. Howard

W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Navigator.

4—2599

(This page to be sent to Bureau of Navigation monthly with Log sheets.)

LIST OF OFFICERS

Attached to and on board of the U. S. S. _____, commanded by _____, U. S. N., during the period covered by this Log Book, with date of reporting for duty, detachment, transfer, or death, from _____, 19 , to _____, 19

NAME.	RANK.	DATE OF REPORTING FOR DUTY.	DETACHED. DATE.	DUTIES.

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Page 379

UNITED STATES SHIP _____, 19__
(Day) (Date) (Month)

ZONE DESCRIPTION _____

REMARKS

Approved:

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5433

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Friday (Day) 1 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							Calm	0	2982		77	75		b	cu	E	2	50		
2							Calm	0	2982		77	75		b	cu	E	2	50		
3							W	2	2982		77	75		b	cu	E	2	50		
4							Calm	0	2982		77	75		bc	cu	E	2	50		
5							Calm	0	2983		78	74		bc	cicu	E	5	50		
6							Calm	0	2983		75	74		bc	stcu	NE	9	50		
7							Calm	0	2985		75	74		b	stcu	E	3	50		
8							Calm	0	2987		78	75		bc	stcu	E	4	50		
9							Calm	0	2990		84	77		bc	cu	E	4	51		
10							Calm	0	2990		86	76		bc	cu	E	5	51		
11							Calm	0	2990		88	76		bc	cunb	E	1	51		
12							E	1	2988		88	76		c	cunb	E	8	51		
P.M.																				
13							E	1	2985		81	77		c	cunb	E	7	51		
14							E	1	2984		81	77		c	cunb	E	7	51		
15							Calm	0	2983		83	78		c	cunb	E	8	51		
16							E	1	2983		82	77		cp	cunb	E	8	51		
17							E	1	2983		81	78		c	cunb	E	8	51		
18							E	1	29832		80	77		c	cunb	E	8	51		
19							E	1	2984		79	76		c	cunb	E	8	51		
20							E	1	2987		79	76		c	cunb	E	8	51		
21							E	1	2990		78	76		c	nb	E	9	51		
22							Calm	0	2990		78	75		om	nb	E	10	51		
23							E	1	2988		77	76		op	nb	E	10	51		
24							E	1	2990		76	75		o	nb	E	10	51		

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 280

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly) 4—5483 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES SHIP ONTARIO. Friday (Day) 1 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Boilers #1 and #2 secured. Receiving water and electricity from the dock. Ships present: H.M.S. ACHILLES, flagship New Zealand Squadron.

D. J. GODSOE, CQM, USN.

4 to 8: 0645 HUNT, T., MM1c, USN, returned from 11 days leave. 0700 Held quarters for muster; no absentees. 0710 S.S. MARIPOSA (Am) stood in and moored to buoy "B".

D. J. GODSOE, CQM, USN.

8 to 12: 0930 Transferred following named men with records and accounts to Receiving Ship at San Francisco, California, via the S.S. MARIPOSA for general detail in accordance with commanding officer's orders of 1 July 1938: WEEKS, Hollie Lewis, # 380-22-43, CBM(PA), USN, BLOWERS, Paul Clark, # 385-62-69, Sealc, USN, SUTHERLAND, Malcolm, # 359-79-15, SC2c, USN and WEDDLE, Howard William, # 341-51-72, CM2c, USN. 1145 CLUXTON, Clyde F., # 286-96-79, WT1c, USN, left ship on shore patrol.

L. H. MOODY, SM1c, USN.

12 to 16: 1215 S.S. MARIPOSA stood out of harbor.

L. H. MOODY, SM1c, USN.

16 to 20: 1645 HEASSLER, Rollin F., # 393-09-02, MM2c, USN, left ship on shore patrol. 1710 CLUXTON, Clyde F., WT1c, USN, reported aboard from shore patrol.

L. H. MOODY, SM1c, USN.

20 to 24: 2208 HEASSLER, Rollin F., MM2c, USN, reported aboard from shore patrol.

L. H. MOODY, SM1c, USN.

Approved:

W. S. HOWARD,
Lieutenant, U.S. Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Saturday (Day) 2 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant, *U. S. Navy, Commanding.*

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							Calm	0	2988		76	75		bc	cu	E	4	51		
2							E	1	2986		77	76		c	cunb	E	8	50		
3							E	1	2986		76	75		c	cunb	E	9	50		
4							E	1	2985		75	74		c	cunb	E	9	50		
5							E	1	2986		76	75		cr	cunb	E	8	45		
6							E	1	2988		76	75		c	cunb	E	8	50		
7							E	1	2989		77	76		or	nb	E	10	40		
8							NE	1	2991		77	76		cr	nb	E	9	40		
9							E	1	2994		79	76		c	nb	E	8	45		
10							E	2	2996		81	76		bc	cunb	E	5	50		
11							E	2	2993		81	76		bc	cu	E	5	51		
12							E	1	2991		81	76		bc	cu	E	5	51		
P.M. 13							E	1	2988		82	76		bc	cu	E	6	51		
14							E	1	2986		82	76		bc	cu	E	6	51		
15							E	1	2985		81	76		c	cunb	E	8	51		
16							E	2	2985		81	77		c	cunb	E	7	51		
17							E	2	2988		81	77		c	cunb	E	7	51		
18							E	2	2988		81	76		c	cunb	E	8	51		
19							E	2	2988		81	76		c	cunb	E	8	51		
20							E	2	2988		80	76		c	cunb	E	8	51		
21							E	2	2987		84	76		bc	cu	E	4	50		
22							E	2	2987		80	76		cr	cunb	E	8	45		
23							E	3	2989		80	76		c	cu	E	7	45		
24							E	4	2989		79	76		c	cu	E	7	45		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 280

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	*Morning*	*Afternoon*
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES SHIP ONTARIO. Saturday (Day) 2 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Boilers #1 and #2 secured. Receiving water and electricity from dock. Ships present: H.M.S. ACHILLES, flagship New Zealand Squadron.

L. H. MOODY, SM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

L. H. MOODY, SM1c, USN.

8 to 12: S.S. MONTEREY stood in and moored to buoys "B" and "C". 1130 POTT, Henry,L., # 257-86-82, WT1c, USN, left the ship on duty as shore patrol. 1135 The following named men reported aboard for duty from the Receiving Ship at San Francisco, California, via S.S. MONTEREY: HAUPT, Henry F., # 294-89-80, CBM (AA), USN, MC KEON, William F., # 200-58-64, CWT (PA), USN, ERICKSON, James H., # 328-12-34, CMM (PA), USN, SNOW, Albert M., # 295-21-71, SC3c, USN, JONES, James O., # 265-47-23, RM1c, USN, FULCHER, Joe (n), # 268-19-17, S1c, USN, BAKER, Cecil F., # 279-43-53, CM2c, USN, and LOWE, Durward R., # 393-18-31, S1c, USN.

E. H. MC CAULEY, GM1c, USN.

12 to 16: No remarks.

E. H. MC CAULEY, GM1c, USN.

16 to 20: 1617 M.B. PILOT (Br.) stood out of harbor for Apia, Western Samoa. 1645 MARTINDALE, Harold L., # 341-73-85, MM1c, USN, left the ship on duty as shore patrol. 1710 POTT, Henry L., # 257-86-82, WT1c, USN, returned to the ship from duty as shore patrol. 1717 S.S. MONTEREY stood out of harbor. 1900 M.B. TUTUILA stood out of harbor.

E. H. MC CAULEY, GM1c, USN.

20 to 24: 2215 MARTINDALE, Harold L., # 341-73-85, MM1c, USN, returned to the ship from duty as shore patrol.

E. H. MC CAULEY, GM1c, USN.

Approved:

W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT Tutuila, American Samoa TO _____, Sunday (Day) 3 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							E	6	2989		80	75		c	cunb	E	8	40		
2							E	6	2988		80	75		c	cunb	E	8	40		
3							E	6	2987		80	75		or	cunb	E	10	40		
4							E	2	2986		80	75		c	cunb	E	9	50		
5							E	2	2986		78	76		cr	cunb	E	10	40		
6							E	6	2988		76	75		or	cunb	E	10	45		
7							E	4	2990		78	75		or	cunb	E	10	50		
8							E	4	2991		76	75		or	cunb	E	10	50		
9							E	3	2990		78	76		cr	cunb	E	10	50		
10							E	2	2989		79	76		cr	cunb	E	9	50		
11							E	2	2987		80	76		c	cunb	E	7	50		
12							E	2	2986		80	77		cpg	cunb	E	9	50		
P.M.																				
13							E	2	2983		81	76		c	cunb	E	8	50		
14							E	2	2980		81	76		c	cunb	E	7	50		
15							E	1	2981		81	76		bc	cunb	E	6	50		
16							E	1	2979		81	75		bc	cunb	NE	5	50		
17							E	1	2982		81	77		c	cunb	E	8	50		
18							E	1	2984		81	77		c	cunb	E	8	50		
19							E	1	2986		81	77		c	cunb	E	9	45		
20							E	1	2986		81	77		c	cunb	E	8	45		
21							E	2	2987		82	78		c	cunb	E	8	45		
22							E	2	2989		81	77		c	cunb	E	8	45		
23							E	2	2990		81	77		c	cu	E	8	45		
24							E	2	2990		81	77		b	cu	E	3	45		

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 280

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483 U. S. GOVERNMENT PRINTING OFFICE

N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Sunday (Day) 3 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Boilers #1 and #2 secured. Receiving water and electricity from the dock. Ships present: H.M.S. ACHILLES, flagship New Zealand Squadron.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

4 to 8: No remarks.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

8 to 12: 0930 Mustered duty section; no absentees.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

12 to 16: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

16 to 20: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

20 to 24: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Monday (Day) 4 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							N	2	2989		80	77		bc	cu	NE	4	50		
2							NE	2	2989		80	77		bc	cu	NE	4	50		
3							N	2	2989		80	77		bc	cu	N	4	50		
4							N	2	2989		80	77		b	cunb	N	3	50		
5							N	1	2990		79	77		b	cunb	N	3	50		
6							NE	1	2993		80	77		c	cunb	NE	9	50		
7							NE	1	2992		80	76		c	cunb	NE	7	50		
8							NE	1	2994		80	77		c	cunb	NE	6	50		
9							NE	2	2996		81	76		c	cunb	NE	9	50		
10							NE	2	2996		81	76		cp	nb	NE	9	50		
11							NE	1	2995		82	77		cr	cunb	NE	8	50		
12							NE	1	2994		82	76		bc	cunb	NE	6	50		
P.M. 13							ENE	3	2992		82	77		c	cunb	E	8	50		
14							ENE	3	2990		82	77		c	cunb	E	8	50		
15							ENE	3	2988		82	76		c	cunb	E	8	50		
16							E	3	2988		82	77		c	cunb	E	7	50		
17							E	3	2989		82	77		cp	cunb	E	7	50		
18							E	4	2990		80	76		r	cunb	E	9	50		
19							E	4	2991		80	75		bc	cunb	E	5	50		
20							E	2	2992		80	75		bc	cunb	E	5	50		
21							E	2	2994		80	75		c	cunb	E	8	50		
22							E	2	2996		80	77		c	cunb	E	8	50		
23							E	2	2997		80	77		c	cunb	E	7	50		
24							E	2	2997		80	77		bc	cunb	E	6	50		

8 a. m. Latitude / Longitude

Noon Latitude / Longitude

8 p. m. Latitude / Longitude

Current Set / Drift

Gyrocompass in Use

Error

Standard Mag. Compass

Compass No.

S. H.

Error

Variation

Deviation

Fuel: Received / Expended / On hand 280

Water: Distilled / Received / Expended / On hand

Before Leaving Port

Draft for'd

Draft aft.

After Entering Port

Draft for'd

Draft aft.

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483 U. S. GOVERNMENT PRINTING OFFICE

N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Monday (Day) 4 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Both boilers secured. Receiving water and electricity from dock. Ships present: H.M.S. ACHILLES, flagship of New Zealand Squadron.

K. W. RICE, CQM, USN.

4 to 8: 0730 H.M.S. ACHILLES underway and stood out.

K. W. RICE, CQM, USN.

8 to 12: 0800 Full dressed ship in commemoration of the 162nd Anniversary of the signing of the Declaration of Independence. 0930 Mustered duty section; no absentees.

K. W. RICE, CQM, USN.

12 to 16: No remarks.

K. F. WHALEN, BM1c, USN.

16 to 20: 1804 Undressed ship.

K. F. WHALEN, BM1c, USN.

20 to 24: No remarks.

K. F. WHALEN, BM1c, USN.

Approved:

W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa. TO _____, Tuesday (Day) 5 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							E	2	2996		80	76		o	cunb	E	8	51		
2							E	2	2996		80	76		co	cunb	E	7	51		
3							E	3	2994		80	75		bc	cu	E	6	51		
4							E	3	2992		81	76		bc	cunb	NE	4	51		
5							E	2	2994		81	76		bc	cunb	E	5	50		
6							E	2	2996		80	75		bc	cunb	E	5	50		
7							E	3	2998		81	76		c	cunb	E	7	50		
8							E	3	3001		81	76		bc	cunb	E	6	50		
9							E	3	3003		82	76		c	cunb	E	8	50		
10							E	3	3003		82	77		c	cunb	E	8	50		
11							E	3	3000		82	77		c	cunb	E	7	50		
12							E	3	2999		82	77		cg	cunb	E	9	50		
P.M. 13							E	4	2995		82	76		c	cunb	E	8	50		
14							E	4	2994		82	77		c	cunb	E	8	50		
15							E	4	2992		82	73		c	cunb	E	8	50		
16							E	3	2990		82	77		c	cunb	E	8	45		
17							E	3	2990		82	77		c	cunb	E	8	45		
18							E	4	2992		81	77		c	cunb	E	9	40		
19							E	3	2993		81	77		c	cunb	E	7	15		
20							E	3	2995		82	77		c	cunb	E	9	15		
21							E	3	2995		81	76		c	cunb	E	8	15		
22							E	3	2995		81	76		c	cunb	E	8	15		
23	73.3	7	9			VAR	E	3	2995		82	77	84	c	cunb	E	8	15		
24	80.0	8	6			070	S	3	2995		81	77	84	bc	cunb	E	4	35	5	ENE

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 280

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd 15' 8"

Draft aft. 14' 3"

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Tuesday (Day) 5 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Boilers #1 and #2 secured. Receiving water and electricity from dock.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

8 to 12: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

12 to 16: No remarks.

D. J. Godsoe
D. J. GODSOE, CQM, USN.

16 to 20: 1601 Lighted fires under boilers #1 and #2. 1615 The following named man was transferred to the U. S. Naval Station for duty in accordance with orders of the Commanding Officer: LONON, Ivory C., Sealc, USN, complete transfer records forwarded by special messenger.

D. J. Godsoe
D. J. GODSOE, CQM, USN.

20 to 24: 2140 Embarked 4 wardroom and 54 general passengers. 2230 Made all preparations for getting underway. 2252 Underway in accordance with Commandant, U.S. Naval Station, Tutuila, American Samoa, Movement Order # 18-38 of 5 July, 1938, on various courses and at various speeds standing out of harbor, captain at the conn. 2301 Passed Breaker Point light abeam to port distance 200 yards. 2325 Set course 105° T., 088° PSC, 086° PSTGC, standard speed 10.0 knots, 94.0 RPM. 2347 changed course to 070° T., 067° PSC, 066° PSTGC, standard speed to 8.5 knots, 79.0 RPM. Average steam 175. Average RPM 73.3.

K. W. Rice
K. W. RICE, CQM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S. Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

Passage

AT PASSAGE Tutuila, American Samoa TO Tau, Manu'a Group, Wednesday (Day) 6 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

W. S. HOWARD, Lieutenant, U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1	79.0	8	5			070	ENE	5	2994		81	76	84	c	cunb	NE	6	35	5	ENE
2	79.0	8	5			070	ENE	5	2992		81	76	84	c	cunb	NE	8	30	5	ENE
3	79.0	8	5			070	ENE	4	2990		81	76	84	c	cunb	NE	7	30	5	ENE
4	79.0	8	5			070	ENE	5	2990		81	76	84	c	cunb	NE	8	30	5	NE
5	79.0	8	5			070	E	5	2990		81	76	84	c	cunb	NE	8	35	5	NE
6	79.0	8	5			070	E	5	2991		81	76	84	c	cunb	NE	7	35	5	NE
7	79.0	8	5			070	E	4	2994		81	76	84	bc	cu	NE	5	50	5	NE
8	73.3	6	7			283	E	3	2998		84	76	84	bc	cu	NE	4	50	4	NE
9	77.4	5	4			300	E	2	2998		84	78	84	bc	cu	NE	4	50	2	NE
10	74.4	4	4			100	E	1	2995		85	77	84	bc	stcu	NE	4	50	2	NE
11	79.0	4	4			93	E	1	2997		84	75	84	b	cu	NE	3	51	2	NE
12	79.4	6	3			252	E	1	2996		91	82	84	b	cu	NE	3	51	2	NE
P.M.																				
13	94.0	10	0			252	E	2	2994		93	83	84	bc	cu	NE	4	51	2	SE
14	94.0	10	0			252	E	2	2991		90	82	84	b	cu	NE	3	51	2	SE
15	94.0	10	0			260	SE	2	2989		95	83	84	bc	cu	NE	5	51	2	E
16	94.0	10	0			280	SE	2	2990		95	83	84	bc	cu	NE	5	51	2	E
17	65.1	7	1				NE	2	2988		82	76		bc	cu	NE	5	50		
18							NE	3	2989		82	76		c	cu	NE	7	50		
19							NE	3	2989		82	76		c	cu	NE	7	50		
20							NE	3	2994		81	76		c	cu	NE	8	50		
21							NE	3	2994		81	76		bc	cu	NE	6	50		
22							NE	3	2992		81	76		bc	cu	NE	5	50		
23							NE	3	2992		81	76		bc	cu	NE	5	50		
24							NE	3	2992		81	76		b	cu	NE	4	50		

a.m. Latitude
Longitude

Noon Latitude 14 11 00 S.
Longitude 169 50 12 W

p.m. Latitude
Longitude

Current Set
Drift

Gyrocompass in Use
Error

Standard Mag. Compass
Compass No.
S. H.
Error
Variation
Deviation

Fuel: Received / Expended 15 / On hand 265

Water: Distilled / Received / Expended / On hand

Before Leaving Port
Draft for'd
Draft aft.

After Entering Port
Draft for'd 13' 8"
Draft aft. 15' 8"

Magazine Temperatures:
Maximum 84
Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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4—5483 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES SHIP ONTARIO. Wednesday (Day) 6 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Steaming on course 86° T., 70° PSC, 66° PSTGC, standard speed 8.5 knots, 79.4 RPM, enroute Tutuila, American Samoa, to Manu'a Group. Boilers #1 and #2 in use for steaming purposes. Average steam 200. Average RPM 79.0.

O. L. KLECKNER, CM1c, USN.

4 to 8: Steaming as before on course 070° T., 067° PSC, 066° PSTGC, standard speed 8.5 knots, 79.4 RPM. 0415 Revolution counter out of commission temporarily. 0545 Sighted Ofu and Olosega Islands, bearing 400 T. 0610 Changed course to 052° T., 046° PSC, 045° PSTGC. 0645 Passed Ofu Island abeam to port distance 3 miles. 0725 Commenced steering various courses and at various speeds approaching Faleasao anchorage. 0740 Standing off and on Faleasao disembarking passengers. Disembarked 19 native passengers. Average steam 200. Average RPM 79.0.

K. F. WHALEN, EM1c, USN.

8 to 12: Standing off and on Faleasau. 0835 Embarked 1 wardroom and 4 general passengers.0837 Steering various courses at various speeds enroute to Sili, Olosega Island. 0930 Standing off and on Sili. 0935 Disembarked 9 general passengers. 1000 Steering various courses at various speeds enroute Ofu. 1027 Standing off and on north anchorage Ofu. 1038 Disembarked 12 general passengers, embarked 15 general passengers. 1117 Set course 258° T., 252° PSC, 252° PSTGC, standard speed 10.0 knots, 94.0 RPM. Enroute Tutuila. Average steam 200. Average RPM 98.8.

E. H. MC CAULEY, GM1c, USN.

12 to 16: Steaming as before on course 258° T., 252° PSC, 252° PSTGC, standard speed 10.0 knots, 94.0 RPM. 1345 Sighted Tutuila bearing 269° T. 1430 Sighted Aunuu Island bearing 270° T. 1500 Changed course to 265° T., 260° PSC, 260° PSTGC. 1520 Changed course to 270° 30' T., 265° PSC, 265° PSTGC. 1545 Changed course to 285° T., 280° PSC, 280° PSTGC. 1555 Passed Aunuu light abeam to starboard, distance 2.5 miles. Average steam 195. Average RPM 94.0.

L. H. MOODY, SM1c, USN.

16 to 20: Steaming as before on course 285° T., 280° PSC, 280° PSTGC, standard speed 10.0 knots, 94.0 RPM. 1625 Steaming on various courses to conform to southern coast of Tutuila Island. 1631 Passed Breaker Point light abeam to starboard, distance 200 yards. 1633 Steaming on various courses and at various speeds to conform to channel Pago Pago harbor, Captain conning. 1647 Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. 1650 Secured main engine and boilers, receiving water and electricity from dock. 1655 Disembarked 5 wardroom passengers. 1656 Disembarked 19 general passengers. Average steam 200. Average RPM 65.1.

L. H. MOODY, SM1c, USN.

20 to 24: No remarks.

L. H. MOODY, SM1c, USN.

Approved:

W. S. HOWARD,
Lieutenant, U.S.N.,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Thursday (Day) 7 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant, *U. S. Navy, Commanding.*

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							NE	3	2991		81	76		bc	cu	NE	4	50		
2							NE	3	2990		81	76		bc	cu	NE	4	50		
3							NE	3	2989		81	76		b	cu	NE	3	50		
4							NE	3	2987		81	77		b	cu	E	3	50		
5							E	3	2988		81	76		b	cu	E	3	50		
6							E	2	2988		81	76		b	cu	E	3	50		
7							E	2	2986		81	76		c	cunb	E	7	50		
8							E	3	2989		81	76		c	cunb	E	6	50		
9							E	1	2992		83	77		bc	cu	E	6	50		
10							E	1	2992		83	77		c	cunb	E	7	50		
11							E	2	2992		82	77		c	cu	E	8	50		
12							E	1	2990		82	79		c	cunb	E	9	50		
P.M.																				
13							E	2	2990		83	79		c	cunb	E	8	50		
14							E	2	2988		83	77		c	cunb	E	9	50		
15							E	2	2987		83	77		bc	cu	E	5	50		
16							E	2	2984		82	77		bc	cu	E	6	50		
17							E	2	2985		81	78		c	cu	E	7	50		
18							E	2	2984		81	77		c	cunb	E	8	50		
19							E	2	2986		81	76		bc	cu	E	4	50		
20							E	2	2987		81	77		c	cu	E	7	50		
21							E	2	2989		81	76		o	cunb	E	10	50		
22							E	2	2990		81	76		bc	cunb	E	7	50		
23							E	2	2990		81	76		bc	cunb	E	7	50		
24							E	2	2990		81	76		bc	cunb	E	7	50		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended 5 On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	*Morning*	*Afternoon*
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Thursday (Day) 7 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Boilers #1 and #2 secured. Receiving water and electricity from dock.

L. H. Moody
L. H. MOODY, SM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

L. H. Moody
L. H. MOODY, SM1c, USN.

8 to 12: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

12 to 16: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

16 to 20: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

20 to 24: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT Tutuila, American Samoa TO _____, Friday (Day) 8 (Date) July (Month), 1938

~~PASSAGE~~

ZONE DESCRIPTION Plus 11

W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							E	2	2989		81	77		c	cunb	E	7	50		
2							E	2	2989		81	77		bc	cu	E	4	50		
3							E	2	2986		81	76		bc	cu	E	4	50		
4							E	2	2983		81	76		bc	cu	E	4	50		
5							E	2	2983		81	76		c	cunb	E	7	50		
6							E	2	2984		81	76		bc	cunb	E	6	50		
7							E	2	2987		80	76		c	cunb	E	7	50		
8							E	3	2989		81	76		bc	cu	E	5	50		
9							E	3	2991		81	77		c	cunb	E	7	50		
10							E	2	2992		82	77		c	cunb	E	7	50		
11							E	3	2992		82	77		bc	cunb	E	6	50		
12							E	3	2990		82	77		c	cunb	E	8	50		
P.M.																				
13							E	3	2988		83	77		c	cunb	E	8	50		
14							E	2	2984		82	77		c	cunb	E	7	50		
15							E	2	2984		82	77		c	cunb	E	9	50		
16							E	2	2984		81	77		c	cunb	E	9	50		
17							E	2	2984		80	76		o	cunb	E	10	45		
18							E	2	2986		80	76		c	cu	E	8	45		
19							E	2	2988		80	76		c	cu	E	8	45		
20							E	2	2990		81	76		c	cu	E	8	45		
21							E	1	2990		81	76		c	cu	E	7	50		
22							E	2	2991		80	75		c	cu	E	8	50		
23							E	1	2990		80	75		c	cu	E	8	50		
24							E	1	2990		79	75		c	cu	E	9	50		

g a. m. { Latitude / Longitude

Noon { Latitude / Longitude

g p. m. { Latitude / Longitude

Current { Set / Drift

Gyrocompass in Use

Error

Standard Mag. Compass

Compass No.

S. H.

Error

Variation

Deviation

Fuel { Received / Expended 5 / On hand 260

Water { Distilled / Received / Expended / On hand

Before Leaving Port

Draft for'd

Draft aft.

After Entering Port

Draft for'd

Draft aft.

Magazine Temperatures:

Maximum 83

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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4—5483 U. S. GOVERNMENT PRINTING OFFICE

N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Friday (Day) 8 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. #1 and #2 Boilers secured. Receiving water and electricity from dock.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

8 to 12: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

12 to 16: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

16 to 20: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

20 to 24: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

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N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. AT13
(Name) (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Saturday (Day) 9 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant, *U. S. Navy, Commanding.*

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							E	1	2989		81	76		o	stcu	E	10	30		
2							E	1	2988		78	76		o	stcu	E	10	30		
3							E	1	2987		78	76		op	cunb	E	10	30		
4							E	1	2987		78	76		o	stcu	E	10	30		
5							E	1	2984		80	77		op	cunb	E	10	30		
6							E	1	2984		80	76		o	stcu	E	8	40		
7							E	1	2985		79	72		bc	cicu	E	6	40		
8							E	2	2988		80	76		bc	cicu	E	8	50		
9							E	2	2989		81	77		bc	cicu	E	6	50		
10							E	2	2990		82	77		bc	cunb	E	7	51		
11							E	2	2990		82	78		bc	cunb	E	6	51		
12							E	2	2986		82	76		c	cu	E	6	51		
																	6			
P.M. 13							E	1	2984		82	77		c	cu	E	8	51		
14							E	1	2980		82	77		c	cu	E	8	51		
15							E	2	2980		82	77		c	cu	E	8	51		
16							E	1	2979		82	77		bc	cu	E	6	51		
17							E	1	2979		82	77		bc	cu	E	8	51		
18							E	3	2980		81	76		bc	cu	E	8	40		
19							E	1	2981		80	75		bc	cu	E	7	50		
20							E	1	2981		82	77		bc	cu	E	8	50		
21							E	1	2980		81	77		bc	cu	E	7	50		
22							E	2	2984		80	76		bc	cu	E	6	50		
23							E	2	2984		80	77		bc	cu	E	6	50		
24							E	2	2983		80	77		bc	cu	E	7	50		

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 83

Minimum 82

DRILLS AND EXERCISES

Division	*Morning*	*Afternoon*
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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(Mar. 1929)

UNITED STATES SHIP ONTARIO. Saturday (Day) 9 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

K. W. Rice
K. W. RICE, CQM, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

K. W. Rice
K. W. RICE, CQM, USN.

8 to 12: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

12 to 16: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

16 to 20: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

20 to 24: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

~~AT~~ PASSAGE Tutuila, American Samoa TO , Sunday (Day) 10 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1						NE	NE	2	2982		80	76		bc	cu	NE	6	45		
2						NE	NE	2	2980		81	77		bc	cu	NE	6	45		
3						E	E	2	2978		80	75		bc	cu	NE	6	45		
4						E	E	2	2978		80	75		bc	cu	NE	6	45		
5						E	E	2	2978		81	75		bc	cu	NE	6	45		
6						E	E	1	2979		82	74		bc	cu	NE	6	50		
7							E	1	2980		85	75		bc	cu	NE	6	50		
8							E	1	2989		81	77		bc	cu	NE	5	50		
9							E	1	2987		82	76		c	cunb	NE	8	50		
10							E	1	2988		83	77		bc	stcu	NE	5	50		
11							E	1	2987		83	77		c	cunb	NE	8	50		
12							E	1	2985		84	77		c	cunb	NE	9	50		
P.M. 13							E	2	2986		88	77		c	cu	E	8	51		
14							E	2	2980		88	77		bc	cu	E	6	51		
15							E	1	2986		81	77		bc	cicu	E	5	51		
16							E	2	2987		82	77		bc	cu	E	5	51		
17							E	2	2980		81	78		c	cunb	E	8	51		
18							E	2	2982		81	76		bc	cicu	E	4	51		
19							E	1	2984		82	76		bc	cicu	E	5	51		
20							E	1	2985		81	76		c	cu	E	7	51		
21							E	2	2986		81	76		c	cu	E	7	51		
22							E	1	2986		81	76		c	cu	E	8	51		
23							E	1	2986		81	76		bc	cu	E	6	51		
24							E	1	2986		81	77		bc	cu	E	6	51		

a. m. Latitude / Longitude

Noon Latitude / Longitude

p. m. Latitude / Longitude

Current Set / Drift

Gyrocompass in Use
Error

Standard Mag. Compass
Compass No.
S. H.
Error
Variation
Deviation

Fuel Received / Expended / On hand 260

Water Distilled / Received / Expended / On hand

Before Leaving Port
Draft for'd
Draft aft.

After Entering Port
Draft for'd
Draft aft.

Magazine Temperatures:
Maximum 84
Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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(Mar. 1929)

UNITED STATES SHIP ONTARIO Sunday (Day) 10 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

4 to 8: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

8 to 12: 0900 Mustered duty section; no absentees.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

12 to 16: No remarks.

W. F. McKeon
W. F. MC KEON, CWT, USN.

16 to 20: No remarks.

W. F. McKeon
W. F. MC KEON, CWT, USN.

20 to 24: No remarks.

W. F. McKeon
W. F. MC KEON, CWT, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa. TO _____, Monday (Day) 11 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							E	2	2984		81	76		b	cunb	E	6	40		
2							E	2	2984		81	76		b	cu	E	3	50		
3							E	2	2984		81	76		b	cu	E	3	50		
4							E	2	2982		81	76		b	cu	E	3	50		
5							E	2	2981		81	76		bc	cu	E	4	50		
6							E	2	2983		81	76		bc	cunb	E	6	50		
7							E	2	2984		81	77		bc	cunb	E	6	50		
8							E	2	2986		82	77		bcg	cunb	E	6	51		
9							E	2	2986		82	77		bcp	cunb	E	6	51		
10							E	2	2987		83	77		bc	cunb	E	5	51		
11							E	2	2988		83	77		ocr	cunb	E	6	51		
12							E	2	2990		83	79		bcp	cunb	E	6	51		
P.M. 13							E	2	2987		84	78		bc	cunb	E	6	51		
14							E	2	2986		84	78		bc	cunb	E	6	50		
15							E	1	2983		84	78		bc	cunb	E	6	51		
16							E	2	2983		84	78		bc	cu	E	5	51		
17							SE	2	2983		84	78		bc	cu	E	5	51		
18							E	2	2983		84	78		bc	cu	E	5	50		
19							E	2	2983		83	78		bc	cu	E	5	50		
20							E	2	2984		83	77		bc	cu	E	5	45		
21							E	2	2984		82	77		bc	cu	E	5	45		
22							E	2	2986		82	77		bc	cu	E	5	45		
23							E	1	2986		82	77		bc	cu	E	5	40		
24							E	1	2987		81	76		bc	cu	E	5	45		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 83

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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UNITED STATES SHIP ONTARIO. Monday (Day) 11 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

8 to 12: No remarks.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

12 to 16: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

16 to 20: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

20 to 24: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT PASSAGE Tutuila, American Samoa. TO _____, Tuesday (Day) 12 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant, U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							E	1	n2985		80	76		bc	cu	E	6	50		
2							E	1	2984		79	76		bc	cu	E	6	50		
3							E	1	2982		78	76		bc	cu	E	6	51		
4							E	1	2981		78	76		bc	cu	E	6	51		
5							E	1	2981		78	76		bc	cu	E	5	51		
6							E	1	2981		78	76		bc	cu	E	5	51		
7							Calm	0	2984		79	76		bc	cicu	E	4	51		
8							Calm	0	2987		78	76		bc	cicu	E	4	51		
9							E	1	2988		80	76		bc	cicu	E	4	51		
10							E	1	2988		81	76		bc	cunb	E	5	51		
11							E	2	2988		81	77		bc	cunb	E	4	51		
12							E	2	2986		83	78		bc	cunb	E	4	51		
P.M.																				
13							E	1	2982		83	77		b	cu	E	3	51		
14							E	1	2980		84	78		bc	cu	E	5	51		
15							E	1	2979		83	77		bc	cu	E	5	51		
16							E	1	2978		84	78		bc	cu	E	5	51		
17							E	1	2978		82	78		bc	cu	E	5	51		
18							E	1	2980		82	78		bc	cu	E	5	51		
19							E	1	2980		82	78		bc	cu	E	5	51		
20							E	1	2981		83	79		bc	cu	E	5	51		
21							E	1	2981		82	78		bc	cu	E	4	51		
22							E	1	2981		85	76		bc	cu	E	4	51		
23							E	1	2982		85	77		bc	cu	E	4	51		
24							E	1	2982		86	78		bc	cu	E	4	51		
														bc						

a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use
Error _____

Standard Mag. Compass
Compass No. _____
S. H. _____
Error _____
Variation _____
Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port
Draft for'd _____
Draft aft. _____

After Entering Port
Draft for'd _____
Draft aft. _____

Magazine Temperatures:
Maximum 84
Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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(Mar. 1929)

UNITED STATES SHIP ONTARIO Tuesday (Day) 12 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

4 to 8: 0710 Held quarters for muster; no absentees.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

8 to 12: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

12 to 16: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

16 to 20: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

20 to 24: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

Approved: W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Wednesday (Day) 13 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							E	1	2983		81	75		bc	cu	E	4	50		
2							E	1	2982		83	75		bc	cu	E	4	50		
3							E	1	2982		79	75		bc	cu	E	2	50		
4							E	1	2980		78	74		bc	cu	E	2	50		
5							E	1	2980		75	74		b			0	50		
6							Calm	0	2980		75	73		b			0	50		
7							Calm	0	2981		75	73		b	cu	E	1	50		
8							Calm	0	2982		75	74		b	cu	E	2	50		
9							Calm	0	2984		78	76		b	cu	E	3	51		
10							Calm	0	2984		79	75		bc	cu	E	3	51		
11							E	1	2984		81	76		bc	cu	E	5	51		
12							E	1	2984		82	76		bc	cu	E	5	51		
P.M.																				
13							E	1	2981		82	76		bc	cu	E	5	51		
14							E	2	2978		82	76		bc	cu	E	5	51		
15							E	1	2977		81	76		bc	cu	E	5	51		
16							E	2	2975		81	77		bc	cunb	E	5	51		
17							E	2	2974		81	76		bc	cu	NE	6	51		
18							E	2	2974		81	77		bc	cu	NE	5	51		
19							E	1	2974		80	76		b	cu	E	1	51		
20							E	1	2976		80	75		b	cu	E	2	51		
21							E	2	2976		81	77		bc	cunb	E	6	50		
22							E	2	2976		81	77		bc	cunb	E	5	50		
23							E	1	2976		81	76		b	cu	E	1	50		
24							E	1	2977		80	77		b	cu	E	2	50		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use
Error _____

Standard Mag. Compass
Compass No. _____
S. H. _____
Error _____
Variation _____
Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port
Draft for'd _____
Draft aft. _____

After Entering Port
Draft for'd _____
Draft aft. _____

Magazine Temperatures:
Maximum 84
Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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UNITED STATES SHIP ONTARIO. Wednesday (Day) 13 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station, wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

L. H. Moody
L. H. MOODY, SM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

L. H. Moody
L. H. MOODY, SM1c, USN.

8 to 12: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

12 to 16: 1430 HARRISON, Milton G., EM2c, USN, was transferred to U. S. Naval Dispensary for treatment. Diagnosis: simple fracture of left tibia fibula, sustained while playing an official baseball game.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

16 to 20: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

20 to 24: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Thursday (Day) 14 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							E	1	2978		80	76		bc	cu	e	4	51		
2							E	1	2975		80	76		bc	cu	e	5	51		
3							E	1	2974		80	76		bc	cu	E	4	51		
4							E	1	2974		80	76		bc	cu	E	6	51		
5							NE	1	2976		78	77		b	cu	E	3	51		
6							Calm	0	2978		79	76		b	cu	E	1	51		
7							E	1	2978		78	75		b	cu	E	3	51		
8							E	1	2980		77	76		bc	cunb	E	7	51		
9							E	2	2982		81	75		bc bc	cicu	E	5	51		
10							E	1	2983		82	75		bc	cicu	E	5	51		
11							E	1	2983		83	76		bc	cicu	E	5	51		
12							E	1	2981		83	76			cu	E	4	51		
P.M.																				
13							E	2	2980		83	77		b	cu	E	4	51		
14							E	2	2979		83	78		bc	cicu	E	4	51		
15							E	2	2977		83	78		c	cicu	E	7	51		
16							E	2	2977		82	78		c	cicu	E	7	51		
17							E	1	2978		81	78		bc	cicu	E	6	51		
18							Calm	0	2980		81	7 8		b	cicu	E	2	51		
19							E	2	2980		81	77		b	cicu	E	2	51		
20							E	2	2980		81	77		bc	cu	E	4	51		
21							E	2	2980		80	77		bcp	cunb	E	6	50		
22							E	2	2979		80	77		bcp	cunb	E	6	50		
23							E	2	2979		80	77		bc	cunb	E	5	50		
24							NE	3	2979		79	77		bcp	cunb	E	5	50		

8 a.m. { Latitude _____ Longitude _____

Noon { Latitude _____ Longitude _____

8 p.m. { Latitude _____ Longitude _____

Current { Set _____ Drift _____

Gyrocompass in Use
Error _____

Standard Mag. Compass
Compass No. _____
S. H. _____
Error _____
Variation _____
Deviation _____

Fuel { Received _____ Expended _____ On hand 250

Water { Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port
Draft for'd _____
Draft aft. _____

After Entering Port
Draft for'd _____
Draft aft. _____

Magazine Temperatures:
Maximum 84
Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Thursday (Day) 14 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

8 to 12: No remarks.

E. H. Mc Cauley
E. H. MC CAULEY, GM1c, USN.

12 to 16: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

16 to 20: 1905 U. S. Naval Station held fire drill. 1909 Fire and rescue party left ship. 1922 U. S. Naval Station secured from fire drill. 1924 Fire and rescue party returned.

K. W. Rice
K. W. RICE, CQM, USN.

20 to 24: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Friday (Day) 15 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							E	2	2980		80	76		bc	cu	E	5	50		
2							E	2	2980		80	76		bc	cu	E	5	50		
3							E	2	2979		79	76		bc	cu	E	5	50		
4							E	2	2977		78	77		bc	cu	E	5	50		
5							E	2	2980		79	76		bcp	cunb	E	5	50		
6							E	2	2980		78	75		bc	cunb	E	4	50		
7							E	1	2980		77	75		bc	cu	E	2	50		
8							E	2	2983		79	77		cp	cunb	E	8	50		
9							ENE	2	2984		80	77		cp	cunb	NE	8	50		
10							ENE	2	2986		79	74		cr	nb	NE	9	50		
11							E	2	2986		80	77		cr	nb	NE	8	50		
12							E	2	2984		82	78		c	nb	NE	9	50		
P.M. 13							E	2	2982		81	77		c	nb	NE	9	50		
14							E	2	2982		81	77		o	nb	NE	10	50		
15							Calm	0	2978		78	75		o	nb	NE	10	50		
16							Calm	0	2980		78	75		c	cunb	NE	9	50		
17							Calm	0	2980		80	75		c	cunb	NE	7	50		
18							Calm	0	2980		79	77		c	cunb	NE	7	50		
19							Calm	0	2980		79	77		c	cunb	NE	8	50		
20							Calm	0	2981		78	77		bc	cu	NE	6	50		
21							Calm	0	2982		77	76		bc	cu	NE	6	50		
22							Calm	0	2984		77	76		bc	cu	NE	6	50		
23							Calm	0	2984		76	75		bc	cu	NE	6	50		
24							Calm	0	2984		75	75		bc	cu	NE	6	50		

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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(Mar. 1929)

UNITED STATES SHIP ONTARIO. Friday (Day) 15 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

K. W. Rice
K. W. RICE, CQM, USN.

4 to 8: 0700 Held quarters for muster; no absentees. 0705 Exercised crew at emergency drills. 0715 secured from emergency drills.

K. W. Rice
K. W. RICE, CQM, USN.

8 to 12: No remarks.

K. W. Rice
K. W. RICE, CQM, USN.

12 to 16: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

16 to 20: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

20 to 24: No remarks.

J. H. Erickson
J. H. ERICKSON, CMM, USN.

Approved:

W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Saturday (Day) 16 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant *U. S. Navy, Commanding.*

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							Calm	0	2982		79	78		bc	cu	NE	4			
2							Calm	0	2980		79	78		bc	cu	NE	4			
3							Calm	0	2978		79	78		bc	cu	N	4			
4							Calm	0	2978		77	76		bc	cu	W	6			
5							Calm	0	2977		77	75		bc	cu	NE	6			
6							Calm	0	2979		75	75		bc	cu	NE	6			
7							Calm	0	2980		75	75		bc	cu	NE	4			
8							Calm	0	2983		75	75		b	cu	NE	3			
9							Calm	0	2984		76	76		b	cu	NE	3			
10							Calm	0	2984		78	76		bc	cu	NE	4			
11							N	1	2984		81	76		bc	cu	NE	5			
12							N	1	2984		83	76		bc	cu	NE	5			
P.M. 13							E	1	2982		83	76		b	cicu	NE	2	51		
14							NE	1	2978		83	76		b	cicu	NE	3	51		
15							Calm	0	2977		82	75		bc	cicu	NE	5	51		
16							Calm	0	2976		82	74		bc	cicu	NE	5	51		
17							E	1	2976		82	75		bc	cicu	NE	5	51		
18							E	1	2977		81	76		bc	cicu	NE	6	51		
19							E	1	2977		81	76		c	cicu	NE	8	50		
20							E	1	2977		79	74		c	cicu	NE	8	50		
21							E	1	2980		77	74		bc	cicu	E	4	50		
22							E	1	2982		76	74		bc	cicu	E	3	50		
23							E	1	2982		76	74		b	cicu	E	3	50		
24							E	1	2982		75	74		b	cicu	E	3	50		
							E													

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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(Mar. 1929)

UNITED STATES SHIP ONTARIO Saturday (Day) 16 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled incident to overhaul. Receiving electricity and water from dock.

J. H. ERICKSON, CMM, USN.

4 to 8: No remarks.

J. H. ERICKSON, CMM, USN.

8 to 12: 0915 Held quarters for inspection of personnel and ship by the Governor of American Samoa, accompanied by staff.

H. H. ERICKSON, CMM, USN.

12 to 16: No remarks.

W. F. MC KEON, CWT, USN.

16 to 20: 1950 M.B. TUTUILA stood in to harbor.

W. F. MC KEON, CWT, USN.

20 to, 24: No remarks.

W. F. MC KEON, CWT, USN.

Approved:

W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Sunday (Day) 17 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W S. HOWARD, Lieutenant, U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							Calm	0	2979		79	78		b	cicu	E	1	50		
2							Calm	0	2979		79	79		b	cicu	E	3	50		
3							Calm	0	2977		79	78		b	cicu	E	3	50		
4							Calm	0	2976		79	78		b	cicu	E	3	50		
5							Calm	0	2976		78	74		b	cicu	NE	4	51		
6							Calm	0	2977		79	73		b	cicu	NE	4	51		
7							E	2	2979		77	73		bc	cu	NW	7	51		
8							E	1	2980		78	75		bc	cu	E	5	51		
9							NE	1	2984		81	76		bc	cunb	NE	5	51		
10							NE	1	2984		81	76		bc	cunb	NE	7	51		
11							NE	1	2983		82	75		bc	cunb	NE	5	51		
12							N	2	2981		83	77		bc	cicu	NE	5	51		
P.M.																				
13							NE	2	2982		83	78		bc	cu	E	6	51		
14							NE	2	2979		84	77		c	cicu	NE	7	51		
15							NE	2	2976		83	77		c	cicu	NE	7	51		
16							NE	2	2975		83	77		bc	cicu	NE	5	51		
17							NE	2	2975		82	75		bc	cicu	NE	5	51		
18							Calm	0	2975		81	75		bc	cicu	NE	5	51		
19							Calm	0	2978		80	75		bc	ci	NE	4	51		
20							Calm	0	2982		77	74		bc	ci	NE	4	51		
21							Calm	0	2982		76	75		b	cu	E	2	51		
22							S	1	2984		75	74		b	cu	SE	1	51		
23							Calm	0	2984		75	74		b	ci	E	3	51		
24							W	1	2984		76	74		b	cicu	W	3	51		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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N. Nav. 43
(Mar. 1929)

UNITED STATES SHIP ONTARIO. Sunday (Day) 17 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

4 to 8: 0900 Mustered duty section; no absentees.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

8 to 12: No remarks.

W. F. Mc Keon
W. F. MC KEON, CWT, USN.

12 to 16: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

16 to 20: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

20 to 24: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

Approved: W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Monday (Day) 18 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M.																				
1							Calm	0	2980		73	73		bc	cu	WNW	3	50		
2							Calm	0	2980		74	73		bc	cu	WNW	4	50		
3							Calm	0	2979		74	73		b	cu	NE	2	50		
4							Calm	0	2978		75	73		b	cu	NE	2	50		
5							E	1	2977		75	74		bc	cu	E	4	50		
6							E	1	2977		75	74		bc	cu	E	4	50		
7							E	1	2979		78	75		bc	A cu	E	4	50		
8							NE	1	2982		78	76		c	A cu	E	7	50		
9							NE	2	2985		80	77		c	cunb	E	8	50		
10							NE	2	2986		82	77		c	a cu	E	9	50		
11							NE	1	2983		83	77		oc	cunb	E	6	50		
12							NE	2	2980		83	78		cp	cunb	E	8	50		
P.M.																				
13							E	1	2980		83	77		c	cu	E	7	51		
14							E	1	2978		83	78		c	cunb	E	8	51		
15							E	1	2976		83	78		bc	cunb	E	5	51		
16							E	1	2976		87	77		bc	cunb	E	9	51		
17							E	1	2978		82	77		bc	cunb	E	7	51		
18							E	1	2980		81	76		bc	cunb	E	9	51		
19							E	1	2981		81	76		bc	cunb	E	4	51		
20							E	1	2981		80	76		b	nb	E	3	51		
21							Calm	0	2981		81	76		b				51		
22							E	1	2980		80	78		b	nb	E	2	51		
23							Calm	0	2982		79	77		b	nb	E	2	51		
24							Calm	0	2984		78	77		b	nb	E	2	51		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel: Received _____ Expended _____ On hand 260

Water: Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 83

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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UNITED STATES SHIP ONTARIO. Monday (Day) 18 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

8 to 12: No remarks.

K. F. Whalen
K. F. WHALEN, BM1c, USN.

12 to 16: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

16 to 20: 1610 M.B. TUTUILA stood out of harbor.

L. H. Moody
L. H. MOODY, SM1c, USN.

20 to 24: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

Approved: W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Tuesday (Day) 19 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant U. S. Navy, Commanding.

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							Calm	0	2984		78	77		b	cu	E	2	51		
2							Calm	0	2982		78	77		b	cu	E	4	51		
3							E	1	2981		78	77		bc	cunb	E	6	50		
4							E	1	2980		78	77		bc	cunb	E	6	50		
5							E	1	2981		80	77		bc	cunb	E	6	50		
6							E	1	2981		80	77		c	cunb	E	9	50		
7							E	1	2978		79	76		c	cunb	N	9	40		
8							E	2	2981		80	77		c	cunb	N	8	40		
9							E	2	2984		81	77		c	cunb	NE	7	50		
10							E	1	2984		83	77		bc	cunb	NE	6	50		
11							E	2	2983		83	78		c	cunb	NE	9	50		
12							E	1	2982		84	78		c	cunb	NE	9	50		
P.M. 13							SE	1	2980		84	78		c	cunb	ne	9	50		
14							SE	2	2978		84	78		c	cunb	ne	8	50		
15							SE	1	2976		84	78		c	cunb	ne	8	50		
16							SE	1	2975		88	77		c	cunb	ne	7	50		
17							E	1	2975		83	77		c	cunb	ne	7	50		
18							E	1	2978		84	78		c	cunb	ne	8	50		
19							E	1	2980		82	78		c	cunb	ne	9	50		
20							Calm	0	2984		81	78		bc	cu	ne	5	50		
21							Calm	0	2985		81	78		bc	cu	ne	5	50		
22							Calm	0	2985		80	78		bc	cu	ne	6	50		
23							Calm	0	2985		80	77		bc	cu	ne	5	50		
24							Calm	0	2983		78	76		bc	cu	ne	4	50		

8 a. m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p. m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 83

Minimum 82

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

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UNITED STATES SHIP ONTARIO Tuesday (Day) 19 (Date) July (Month), 1938

ZONE DESCRIPTION Plus 11.

REMARKS

0 to 4: Moored starboard side to U. S. Naval Station wharf, Tutuila, American Samoa. Engineering plant disabled, incident to overhaul. Receiving water and electricity from dock.

L. H. Moody
L. H. MOODY, SM1c, USN.

4 to 8: 0700 Held quarters for muster; no absentees.

L. H. Moody
L. H. MOODY, SM1c, USN.

8 to 12: No remarks.

L. H. Moody
L. H. MOODY, SM1c, USN.

12 to 16: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

16 to 20: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

20 to 24: No remarks.

E. H. McCauley
E. H. MC CAULEY, GM1c, USN.

Approved: W. S. Howard
W. S. HOWARD,
Lieutenant, U.S.Navy,
Navigator and Commanding.

Examined:

U. S. N., Navigator.

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

4—5483

N. Nav. 43
(Mar., 1929)

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LOG OF THE UNITED STATES SHIP ONTARIO. (Name) AT13 (Identification Number)

AT ~~PASSAGE~~ Tutuila, American Samoa TO _____, Wednesday (Day) 20 (Date) July (Month), 19 38

ZONE DESCRIPTION Plus 11. W. S. HOWARD, Lieutenant, *U. S. Navy, Commanding.*

Hour	"All Shaft" Average Revolutions	By Revs. Nautical Miles	By Revs. Tenths	By Log Nautical Miles	By Log Tenths	Course (P. C.) Gyro / Mag. (Indicate which)	Wind Direction	Wind Force	Barometer Height in Inches	Barometer Reading At. Ther.	Temperature Air, Dry Bulb	Temperature Air, Wet Bulb	Temperature Water at Surface	Weather, by Symbols	Clouds Form	Clouds Moving From—	Clouds Amount	Visibility	Sea Condition	Sea Swells From—
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.M. 1							Calm	0	2981		77	76		bc	cu	NE	4	50		
2							Calm	0	2980		77	76		bc	cu	NE	4	50		
3							Calm	0	2980		77	76		bc	cu	NE	4	50		
4							Calm	0	2980		77	76		bc	cu	NE	4	50		
5							Calm	0	2980		76	75		bc	cu	NE	4	50		
6							Calm	0	2982		76	75		b	cu	NE	1	50		
7							Calm	0	2984		76	75		bc	cu	NE	4	50		
8							Calm	0	2985		80	79		bc	cunb	NE	4	50		
9							Calm	0	2987		82	79		c	cunb	NE	8	50		
10							E	1	2980		82	80		cpg	cunb	NE	9	50		
11							E	1	2990		83	81		c	cunb	NE	8	50		
12							E	1	2987		83	78		c	cunb	NE	7	50		
P.M. 13							E	1	2984		80	78		cr	nb	NE	9	50		
14							Calm	0	2982		81	79		bcp	cunb	NE	6	50		
15							Calm	0	2981		81	79		bc	cunb	NE	5	50		
16							Calm	0	2980		81	78		bc	cu	NE	4	50		
17							E	1	2981		82	78		cp	cunb	E	8	50		
18							E	1	2982		80	78		cr	cunb	E	9	50		
19							E	2	2983		79	76		or	cunb	E	10	50		
20							E	2	2984		80	75		c	cunb	E	7	500		
21							E	2	2985		80	75		bc	cu	E	4	50		
22							E	3	2986		81	76		bc	cu	NE	4	50		
23							E	2	2986		80	75		bc	cu	NE	4	50		
24							E	2	2987		79	75		bc	cu	NE	4	50		

8 a.m. Latitude _____ Longitude _____

Noon Latitude _____ Longitude _____

8 p.m. Latitude _____ Longitude _____

Current Set _____ Drift _____

Gyrocompass in Use

Error _____

Standard Mag. Compass

Compass No. _____

S. H. _____

Error _____

Variation _____

Deviation _____

Fuel Received _____ Expended _____ On hand 260

Water Distilled _____ Received _____ Expended _____ On hand _____

Before Leaving Port

Draft for'd _____

Draft aft. _____

After Entering Port

Draft for'd _____

Draft aft. _____

Magazine Temperatures:

Maximum 84

Minimum 83

DRILLS AND EXERCISES

Division	Morning	Afternoon
1		
2		
3		
4		
5		
6		
7		
8		
9		

SUBMERGED RUN DATA—SUBMARINES

	1	2	3	4	5
Run No. (Serial)					
Time to submerge					
Greatest depth					

(Original (ribbon) copy of this page to be sent to Bureau of Navigation monthly)

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