

# 8564

Diag'd. on Diag. Ch. No. 1202

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photo.  
(Shoreline)

Field No. CS-272-E Office No. T-8564

### LOCALITY

State Maine

General locality Coast of Maine

Locality Union River in the Vicinity of  
Ellsworth

1944-'45

CHIEF OF PARTY

D.E. Sturmer

LIBRARY & ARCHIVES

DATE

June 2 1949

B-1870-1 (1)

# 8564

## DATA RECORD

T- 8564

Quadrangle (II):

Project No. (II): CS-272 -E

Field Office:

Chief of Party:

*Dale E. Sturmer*  
~~Fred. L. Peaceck~~

Air Photographic Party No. 2

Compilation Office:

Chief of Party:

William F. Deane

Baltimore Photogrammetric Office

Instructions dated (II III):

Copy filed in Descriptive

April 1, 1942 (Additional). July 10, 1943  
(Horizontal Control Requirements). March 18,Report No. T- (VI)  
*Div. of Photogram. Office Files*April 11, July 17, 1944 (Supplemental) August 10, 1944  
(Additional) August 26, 1944 (Amendment to Additional Instructions)  
Completed survey received in office:*11 Sept: 1944 4-6*

Reported to Nautical Chart Section:

Reviewed: *H. W. Thune* Applied to chart No.

Date:

*2/12/47*Redrafting Completed: *23 Sept: 1947*Registered: *20 Feb. 1948*Published: *Shoreline (Vault copy only)*

Compilation Scale: 1:10,000

Published Scale: *1:10000*

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927

Datum Plane (III):

Reference Station (III): SUL, 1944

Lat.: *324"*  
44° 30' 12.234" 380.4 mLong.:  
68° 24' 40.422" 893.0 m~~Adjusted~~  
~~Unadjusted Field~~State Plane Coordinates (VI): *East Zone*

X =

Y =

Military Grid Zone (VI)



STATISTICS (III)

Land Area (Sq. Statute Miles): 4

Shoreline (More than 200 meters to opposite shore): 2 statute miles

Shoreline (Less than 200 meters to opposite shore): 3 statute miles  
(measured along approximate centerline only)

Number of Recoverable Topographic Stations established: 2 Recoverable Photo  
(Topographic) Stations, and 1 Theodolite Station

Number of Temporary Hydrographic Stations located by radial  
plot: 42

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered  
by, (II) Field Party, (III) Compilation Party, or, (VI) the  
Washington Office.

When entering names of personnel on this record give the  
surname and initials (not initials only).

Remarks:

FIELD REPORT

SURVEY NO. T-8564

COAST OF MAINE  
ELLSWORTH  
PROJECT NO. CS-272

1. DESCRIPTION OF THE AREA:

According to the Instructions dated August 10, 1944, Map Manuscript, Survey No. T-8564 is a shoreline survey with the exception of the city of Ellsworth which shall be delineated in its entirety.

Map Manuscript, Survey No. T-8564 covers a portion of Union River from Ellsworth Falls south to approximately three miles south of Ellsworth.

Immediately adjacent to the Mean High-Water Line, most of the terrain rises sharply reaching a maximum of 100 feet on the west side of the river while on the east side the rise is more gradual. In the foreshore area are several stretches of ledge rock and of gravel and boulder beaches.

The interior, with the exception of the city of Ellsworth, is mostly tree covered and hilly, the elevation rising from sea level to a maximum of 292 feet at Beckwith Hill. There are a few cleared and cultivated areas, most of which are along the main roads. Just north of Ellsworth there is a large dam across Union River and at Ellsworth Falls there are the remains of another dam.

2. COMPLETENESS OF FIELD INSPECTION:

The identification of the horizontal control, the Mean High-Water Line south of the large dam at Ellsworth, foreshore and offshore features are complete except for offlying shoal and sunken reef areas not discernible on the photographs. Only a few portions of the Mean Low-Water Line have been inspected.

There was no field inspection for the area north of the dam at Ellsworth.

3. INTERPRETATION OF THE PHOTOGRAPHS:

Sufficient notes have been made on the field photographs to enable the Compilation Office to augment the field interpretation by analogy where necessary.

4. HORIZONTAL CONTROL:

One previously established United States Geological Survey station *CH-12, 1942* was recovered in good condition and identified on the field photographs. One new Theodolite Station was established in 1944 and seven Temporary Traverse Stations were established in 1945. The Theodolite Station and six of the Temporary Traverse Stations were accurately identified by Substitute Stations.

Form No. 526, Recovery Note, has been submitted for the previously established horizontal control station. Form No. 524 has been submitted for the new Theodolite Station. *L. SUL, 1944*

5. VERTICAL CONTROL:

No vertical control was recovered within the area of this survey.

6. DRAINAGE:

South of the dam at Ellsworth all drainage has been identified on the field photographs.

7. MEAN HIGH-WATER LINE:

All of the Mean High-Water Line was inspected from a dinghy kept close to shore or by traversing on foot.

Alongshore rocks, offshore rocks, and small islets above the plane of Mean High-Water, revealed by photography have been identified on the field photographs with the elevation above the plane of Mean High-Water noted.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line was inspected at or near Mean Low-Water whenever practicable.

Only a very small portion of the Mean Low-Water Line has been identified by the Field Unit. In most instances the Mean Low-Water Line follows very close to the shore and has been shown on the field photographs with a dotted green ink line or the distance from the Mean High Water Line noted.

9. WHARVES AND SHORELINE STRUCTURES:

All piers, marine ways, cribbings, and ruins of cribbings have been identified on the field photographs.

10. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

Details outside the foreshore area revealed by photography include one small rock ledge area and one area where boulders bare at Mean Low-Water.

The character of the foreshore area has been indicated on the field photographs. The extent to which several prominent rocks bare at Mean High Water or uncover at the time of the field inspection with time and date, has been noted on the field photographs.

11. LANDMARKS AND AIDS TO NAVIGATION:

No previously charted Landmarks or Non-Floating Aids to Navigation fall within the area of this survey and none are recommended.

12. HYDROGRAPHIC CONTROL:

2 Recoverable Photo (Topographic) Stations. } *SKIP*  
42 Temporary Photo (Topographic) Stations. } *CUPOLA*

Descriptions have been furnished for all stations.

Forms No. 524 have been submitted for each of the two Recoverable Photo (Topographic) Stations. *see also paragraph 4 above p 35 of compilation report*

14. ROAD CLASSIFICATION:

In accordance with the Army War College Circular, dated January 12, 1942, "Classification of Roads".

18. GEOGRAPHIC NAMES:

No investigation.

COMPILATION REPORT

MAP MANUSCRIPT, SURVEY NO. T-8564

COAST OF MAINE

UNION RIVER

ELLSWORTH

PROJECT NO. CS-272

26. CONTROL:

The horizontal control in the area of the Map Manuscript for Survey No. T-8564 consists of twenty-five stations. They are as follows:

15 within the detail limits

<u>Name of Station</u>	<u>Type of Station</u>	
* SUL, 1944	Theodolite (new)	<i>fm 524</i>
HUB 19, 1945	Temporary Traverse (new)	"
* HUB 20A, 1945	Temporary Traverse (new)	"
* HUB 20B, 1945	Temporary Traverse (new)	"
* HUB 24, 1945	Temporary Traverse (new)	"
* HUB 30, 1945	Temporary Traverse (new)	"
* HUB 33, 1945	Temporary Traverse (new)	"
** 285+, 1942 (U.S.G.S.)	Traverse	
** 292+, 1942 (U.S.G.S.)	Traverse	
** 315, 1942 (U.S.G.S.)	Traverse	
** 328, 1942 (U.S.G.S.)	Traverse	
330, 1942, r. 1944 (U.S.G.S.) also CH 12, 1942 (U.S.G.S.)	Traverse ( <i>fm 526</i> )	
** 333, 1942 (U.S.G.S.)	Traverse	
** 337, 1942 (U.S.G.S.)	Traverse	
* HUB 22, 1945	Temporary Traverse (new)	"

10 just outside the detail limits

*HUB 15, 1945	Temporary Traverse (new)
*** 270, 1942 (U.S.G.S.)	Traverse
** 275, 1942 (U.S.G.S.)	Traverse
276, 1942, r. 1944 (U.S.G.S.) also CH 11, 1942 (U.S.G.S.)	Traverse
*** 341+, 1942 (U.S.G.S.)	Traverse
*** 348+, 1942 (U.S.G.S.)	Traverse
*** 368+, 1942 (U.S.G.S.)	Traverse
**** 374, 1942 (U.S.G.S.) also 450, 1942 (U.S.G.S.)	Traverse
** 377, 1942 (U.S.G.S.)	Traverse
** 450+, 1942 (U.S.G.S.)	Traverse



\* Station identified by a Substitute Station. The positions of these Substitute Stations have been shown on the Map Manuscript with very small black acid ink circles accompanied with the note "Sub.Sta."

\*\* Station not recovered in 1944.

\*\*\* Station identified by the Compilation Office.

\*\*\*\* Station identified by the Compilation Office but not used.

Fifteen of the above mentioned twenty-five horizontal control stations were used for controlling the radial plot.

#### 27. RADIAL PLOT:

The radial plot for the area of this Survey is part of a combined plot made with slotted steel templates. Satisfactory results were obtained. The Radial Plot Report for Priority Area No. 3 for Project No. CS-272-E was submitted July 19, 1946 to the Washington Office.

#### 28. DETAILING:

The compilation of this Map Manuscript is in accordance with the written instructions pertaining to Project No. CS-272-E.

The photographs, horizontal control stations, and horizontal pass points available for the compilation of the survey were adequate. The field data, however, were not.

No field data were available for delineating the area north of the dam at Ellsworth or for much of the Mean Low-Water Line. The area north of Ellsworth was delineated after careful stereoscopic examination of the office photographs. However, there is some doubt as to the character of the terrain immediately adjacent to the shoreline at Ellsworth Falls. *This should be investigated by the hydrographic party.*

#### 30. MEAN HIGH-WATER LINE:

The Mean High-Water Line has been delineated in accordance with the field data and has been shown with a solid heavy-weight black acid ink line.

#### 31. LOW-WATER LINE:

The position of the Mean Low-Water Line has been delineated in accordance with the field data and has not been shown unless identified by the Field Unit. The approximate position of the Mean Low-Water Line has been shown with a dotted black acid ink line or, in one instance, the distance from the Mean High-Water Line is noted.

31A SHOAL LINES:

There are no shoal lines shown within the area of this survey.

31B REEF LINES:

There are no reef lines shown within the area of this survey.

31C FORESHORE AREAS:

The foreshore area consists of rock ledge, boulders, rocks, (including detached rocks), and gravel beaches. Such features have been delineated in accordance with the field data. The extent to which detached rocks within the foreshore area bare at Mean High-Water or uncover at Mean Low-Water have been shown on the Map Manuscript with notes which are in accordance with the field data.

32. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The offshore features include one small rock ledge area and one area where boulders bare at Mean Low-Water. These features have been shown in accordance with the field data.

33. WHARVES AND SHORELINE STRUCTURES:

All piers, marine ways, cribbings, and ruins of cribbings have been delineated in accordance with the field data.

34. LANDMARKS AND AIDS TO NAVIGATION:

- No previously charted Landmarks or Non-Floating Aids to Navigation fall within the area of this survey. None were recommended by the Field Unit.

35. HYDROGRAPHIC CONTROL:

- 1 Theodolite Station (SUL, 1944)
- 2 Recoverable Photo (Topographic) Stations. (SKIP; CUPOLA)
- 42 Temporary Photo (Topographic) Stations.

A descriptive list of all of the hydrographic control stations has been compiled and is attached to this report. Two additional copies have been furnished for the use of the hydrographic parties.

Form No. 524 is being submitted for each of the two Recoverable Photo (Topographic) Stations and the Theodolite Station.

38 GEOGRAPHIC NAMES: 814 ✓

As instructed, no geographic names investigation was made by the Field Unit. The geographic names appearing on the Map Manuscript have been taken from Nautical Chart No. 307 and from United States Geological Survey Ellsworth, Maine Quadrangle. A list of names is attached to this report.

39. JUNCTIONS:

The junction with Map Manuscript for Survey No. T-8565 to the south has been made and is in agreement.

The junction with Map Manuscript for Survey No. T-8563 to the north will be made when that survey is completed. *eliminated*

The junction with Map Manuscript for Survey No. T-8577 to the southeast, T-8578 to the east, T-8579 to the northeast, and T-8561 to the west are undetailed interior areas.

40. HORIZONTAL ACCURACY:

The position of all detail of importance is believed to be within 0.5 mm.

41. RECOMMENDATIONS FOR FUTURE SURVEYS:

Map Manuscript, Survey No. T-8564 is complete with respect to all known details necessary for charting except those not definitely revealed by photography, which should be investigated during the next hydrographic survey. These features have been noted in "Notes for Hydrographic Parties" attached to this report, and indicated on a section of Nautical Chart No. 307 also attached to this report.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

United States Geological Survey, Ellsworth, Maine (15' series) Quadrangle, Scale 1:62,5000, edition of June 1911, reprinted 1941.

In general, planimetry common to the Map Manuscript and to the Quadrangle is in good agreement.

Minor differences are discussed in "Notes to Reviewer" attached to this report.

45. COMPARISON WITH NAUTICAL CHARTS:

United States Coast and Geodetic Survey Survey Chart No. 307, scale

45. COMPARISON WITH NAUTICAL CHARTS: (Continued)

1:40,000, published at Washington, D. C., August 1943, corrected to April 7, 1945.

In general, planimetry common to the Map Manuscript and to the Chart are in good agreement.

Minor differences in land features are mentioned in "Notes to Reviewer" attached to this report and differences in offshore features for which data were lacking are mentioned in "Notes for Hydrographic Parties" also attached to this report.

Respectfully submitted:  
4 September 1946

Ruth E. Rudolph  
Ruth E. Rudolph  
Photogrammetric Aid

Map Manuscript and Descriptive  
Report Reviewed by

Raymond Glaser  
Raymond Glaser  
Engineering Draftsman

Compilation of Map Manuscript  
Supervised By:

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Engineer

Approved and Forwarded  
11 September 1946

William F. Deane  
William F. Deane  
Chief of Party, C&G Survey  
Officer in Charge  
Baltimore Photogrammetric Office

1945

IDENTIFICATION REPORT

HORIZONTAL CONTROL

MAP MANUSCRIPT, SURVEY NO. T-8564

PROJECT NO. CS-272-E

Station	U.S.G.S. Quadrangle	Recovery Date	Pricking Data
* SUL, 1944	Ellsworth	11-16-44 (new)	Positive
HUB 19, 1945	Ellsworth	6-19-45 (new)	Positive
* HUB 20a, 1945	Ellsworth	6-19-45 (new)	Positive
* HUB 20b, 1945	Ellsworth	6-21-45 (new)	Positive
* HUB 22, 1945	Ellsworth	6-21-45 (new)	Positive
* HUB 24, 1945	Ellsworth	6-21-45 (new)	Positive
* HUB 30, 1945	Ellsworth	6-21-45 (new)	Positive
* HUB 33, 1945	Ellsworth	6-22-45 (new)	Positive
** 285 †, 1942 (U.S.G.S.)	"		
** 292 †, 1942 (U.S.G.S.)	"		
** 315, 1942 (U.S.G.S.)	"		
** 328, 1942 (U.S.G.S.)	"		
330, 1942, r. 1944 (U.S.G.S.)			
also CH 12, 1942	Ellsworth	-10-28-44	Positive
** 333, 1942 (U.S.G.S.)	Ellsworth		
** 337, 1942 (U.S.G.S.)	Ellsworth		

\* Station identified by a Substitute Station. The positions of these Substitute Stations have been shown on the Map Manuscript with very small black acid ink circles accompanied with the note "Sub. Sta."

\*\* Station not recovered.

GEOGRAPHIC NAMES

- Branch Lake Stream ✓
- Card Brook ✓
- Ellsworth ✓
- Ellsworth Falls (town) ✓
- Union River ✓
- Black Point
- Murches Point

- Maine Central ✓
- U.S. No. 1 ✓
- State No. 3 • U.S. No. 1 Alt. ✓
- State Roads Nos. 15, 102 ✓

Names preceded by • are approved

GEOGRAPHIC NAMES

L. Heck 9/14/47

NOTES  
TO  
REVIEWER

SURVEY NO. T-8564  
PROJECT NO. CS-272-E

All details have been shown with the usual symbols.

The small blue ink circles are the positions of well defined detail points determined photogrammetrically and are considered strong.

The  $2\frac{1}{2}$  millimeter black acid ink circles are the positions of the selected hydrographic control and of the new Temporary Traverse Stations. Such circles, accompanied with a name and date (1945), and a number, are the positions of the Recoverable Photo (Topographic) Stations. That circle, accompanied with a name and date (1944) is the position of the Theodolite Station and those circles, accompanied with a name and date (1945) are the positions of the Temporary Traverse Stations. All other such circles, accompanied with a number only, are the positions of the Temporary Photo (Topographic) Stations. A list of all of the Photo (Topographic) Stations and the Theodolite Station is attached to this report.

The very small black acid ink circles, accompanied with the note "Sub. Sta." are the positions of the Substitute Stations.

The photographs contain no appreciable tilt or differential distortion.

The scale of the photographs and the Map Manuscript was in good agreement.

The following disagreements between the Map Manuscript and the United States Geological Survey, Ellsworth, Maine Quadrangle Map were found:

No ledge, ledge areas, piers, cribbings, marine ways, rock islets, or detached rocks appear on the Quadrangle.

A dam appearing on the Quadrangle at Ellsworth Falls is no longer in existence.

The shoreline above the dam at Ellsworth Falls is in disagreement.

A road is shown along the southern shore of Union River between Ellsworth and Ellsworth Falls which does not appear on the quadrangle.

The road along the northern shore of Union River between Ellsworth and Ellsworth Falls is shown as one continuous road on the Map Manuscript.

A number of buildings.

The following disagreements were found between the Map Manuscript and Nautical Chart No. 307.

Several rock ledge areas shown on the chart appear on the Map Manuscript as gravel and boulder areas.

Numerous cribbings are shown as ruins of cribbings on the Map Manuscript.

The shoreline on both sides of Union River immediately south of the bridge at Ellsworth.

Shown on the Chart but not on the Map Manuscript because no data were available:

Three floatings Aids to Navigation

Shown on the Map Manuscript but not charted:

All buildings.

All detached rocks.

The geographic name Card Brook.

A pier on the eastern shore of Union River just northwest of Washington Street.

Respectfully submitted:  
4 September 1946

*Ruth E. Rudolph*  
Ruth E. Rudolph  
Photogrammetric Aid

Approved and Forwarded:  
11 September 1946

*William F. Deane*  
William F. Deane  
Chief of Party, C&G Survey  
Officer in Charge  
Baltimore Photogrammetric Office



DESCRIPTIONS OF THEODOLITE STATIONS, TEMPORARY  
PHOTO (TOPOGRAPHIC) STATIONS, AND RECOVERABLE  
PHOTO (TOPOGRAPHIC) STATIONS FOR MAP MANUSCRIPT,  
SURVEY NO. T-8564.

NUMBER OF THEODOLITE STATIONS. . . . . 1  
NUMBER OF TEMPORARY PHOTO (TOPOGRAPHIC)  
STATIONS . . . . . 42  
NUMBER OF RECOVERABLE PHOTO (TOPOGRAPHIC)  
STATIONS . . . . . 2  
TOTAL NUMBER OF STATIONS . . . . . 45

LISTED BY Ruth E. Rudolph  
Ruth E. Rudolph  
Photogrammetric Aid

CHECKED BY Raymond Glaser  
Raymond Glaser  
Engineering Draftsman

- 341 Chimney sitting in center of unpainted house with small partition attached to northeast end. House sits alone in small field. House has two windows under west gable. Lilac bush to west of house several feet.
- 342 Red brick chimney on yellow two story house sitting up on sloping banking. House has brown trimmings with flagpole in yard.
- 343 Southeast corner of log cribbing on westward side of river.
- 344 "CUPOLA, 1945" - Station is cupola on west gable of yellow painted two story house sitting up on side of bank on hill. House is quite hidden from view of river, as it sits back in woods on hill. There is also a cupola on barn. Located on the eastern side of Union River about a mile south of Ellsworth. Recoverable Photo (Topographic) Station.
- 345 Small evergreen tree about 4 meters in from shore and grassline. At foot of sloping hill. This tree sits by itself and is about 18' tall and well shaped.
- 346 Base of 70' evergreen tree about 250 feet west of old broken down cribbing running out into river.
- 347 Base of southerly of group of evergreen trees at shoreline sitting on edge of grass and shoreline. Tree is about 35' tall.
- 348 Base of a 40' evergreen tree growing just inshore of ledge sloping down into water. Tree is very poorly branched at top. This tree is higher than others in vicinity.
- 349 Top center of gray pointed topped boulder that lays offshore to the southeast of two low flat ledge boulders. This boulder is larger and farther offshore than any of other rocks in this vicinity. Boulder directly west of fence running down to water on east shore.
- 350 The small 2' high pipe sticking out the top of smaller and most northerly of two gasoline tanks on east shore of river.
- 351 Southwest gable of large red topped unpainted barn. Two windows under northeast gable facing water.
- 352 Top of spire on white Congregational Church in center of town.
- 353 Top south corner of yellow brownish building with brick red bottom.
- 354 Southeast corner of "Socony" station at west end of cement bridge.
- 355 Northwest corner of post office building on corner of Water and Main Streets in town.
- 356 The north end of center concrete abutment of highway bridge.
- 357 The south end of center concrete abutment of highway bridge.

- 358 East gable of gray two story building with two sky lights in roof, two on each side. Building is part of "Carter's Wood Yard".
- 359 Southwest corner of offshore cribbing.
- 360 The west gable of smaller black topped building "Thorson's" Boat Yard.
- 361 The west gable of white house with yellow trimming that sits up on hill near river. This house has three chimneys on it.
- 362 Base of birch tree sitting alone at edge of water.
- 363 Southeast corner of unpainted shack sitting alone on shore. This shack sits on rounded point.
- 364 Tallest evergreen on point of land making off to eastward. Bare patch of banking to west of tree.
- 365 Rock sitting about 10 meters off from Mean High-Water Line. Gray boulder, only in vicinity.
- 366 Southwest corner of old log cribbing. Bunch of rocks sitting on top of it.
- 367 Top of large gray boulder on Mean High-Water Line. Boulder is fairly round.
- 368 Top center of arch at south gable of higher part of small house. This house is painted dark brown and green and is up on hill back in field.
- 369 Top center of gray ragged topped boulder about 3 meters off from Mean High-Water Line. Largest boulder showing at high water.
- 370 Base of 25' evergreen tree on easterly side of small cove. Around the base of this tree there are many 2' boulders that are quite round.
- 371 Base of 45' evergreen tree growing about 3 meters in from Mean High Water Line. A smaller crooked evergreen growing alongside it.
- 372 Base of small 15' evergreen tree growing on edge of shore and just southwest of low flat faced boulder. Growing on side of banking.
- 373 Base of 25' evergreen tree growing about 4 meters west of ledge running out into water. Base of tree has been glazed to aid recovery.
- 374 "SKIP, 1945" - Station is a bronze disc stamped "SKIP, 1945" cemented in drill hole in west end of sharp point of ledge running down from woods. Ledge is gray colored with moss and is located

- 374 (Continued)  
on the eastern bank of Union River about two miles south of Ellsworth.  
Recoverable Photo (Topographic) Station.
- 375 Base of 18' evergreen tree growing on top of ledge making offshore  
in river. Base of this tree has been glazed to aid recovery.
- 376 Base of large heavy limbed lone pine tree growing on side of  
banking just west of graveyard and plowed field.
- 377 Base of flat topped evergreen tree. This is a very large tree  
about 50' tall and is sitting alone.
- 378 Base of 10' evergreen tree sitting on side of dirt banking. This  
tree is by itself and is a good shaped tree.
- 379 Base of 40' evergreen tree sitting alone on side of banking.
- 380 Base of crooked apple tree growing out of ledge at head of little  
cove on the easterly side.
- 381 Base of lone evergreen tree at edge of dirt banking running down  
from top of banking. This tree is at edge of bare spot on bank-  
ing.
- 382 Base of 20' evergreen tree growing on side of bare dirt banking.  
The base of this tree has been blazed to aid recovery.
- 383 Base of a group of four evergreens growing right together about  
three meters from Mean High-Water Line.
- 384 Base of tall 40' cedar tree growing at top of broken ledge rock  
slide. There is a stream coming out of woods to the north of  
this tree.

"SUL, 1944" - Station is a standard topo disc stamped "SUL, 1944"  
set in top of a large 2½' square boulder which projects two feet  
above surface of the ground and is located about 2.7 miles south  
of Ellsworth, about 1575 meters south-southeast of crossroads at  
Morrison School on Route 102, about 750 meters east of Route 102,  
about 50 meters southwest of the top of the hill, 18 meters west  
of woods road and 21 meters west of forks in woods road. Station  
is best reached from post office in Ellsworth by going south along  
Route 102 about three miles to green shack on left, follow  
abandoned road east 0.37 miles to trail northeast and follow trail  
northeast about 150 meters to station. Theodolite Station.

NOTES  
FOR  
HYDROGRAPHIC PARTIES  
COAST OF MAINE  
MAP MANUSCRIPT, SURVEY NOT. T-8564

PROJECT NO. CS-272-E

The 2½ millimeter black acid ink circles are the positions of the selected hydrographic control stations and of the Temporary Traverse Stations. Two copies of the Descriptive List of the hydrographic control stations have been furnished for your use.

The dotted acid ink line is the approximate position of the Mean Low-Water Line.

The very small black acid ink circles accompanied with the note "Sub. Sta." are the positions of the Substitute Stations. A brief description of the Substitute Stations may be found on the pricking cards, Form No. M-982-1 submitted to the Washington Office.

The following charted features were not definitely revealed by photography and should be investigated during the next hydrographic survey:

Three floating Aids to Navigation.

Features in disagreement with the Nautical Chart:

Several rock ledge areas shown on the chart appear on the Map Manuscript as gravel and boulder areas.

Numerous cribbings are shown as ruins of cribbings on the Map Manuscript.

The shoreline of the Union River immediately south of the bridge at Ellsworth.

Note: For location see section of Nautical Chart No. 307 attached to this report. The features not definitely revealed by photography have been indicated by a red ink line around the area in which they fall and the features in disagreement have been indicated by a green ink line.

Respectfully submitted:  
4 September 1946

Approved and Forwarded:  
11 September 1946

*William F. Deane*  
William F. Deane,  
Chief of Party, C& G Survey  
Officer in Charge  
Baltimore Photogrammetric Office

*Ruth E. Rudolph*  
Ruth E. Rudolph  
Photogrammetric Aid

68°30'

28' 49" 30" 19" 27'

25'

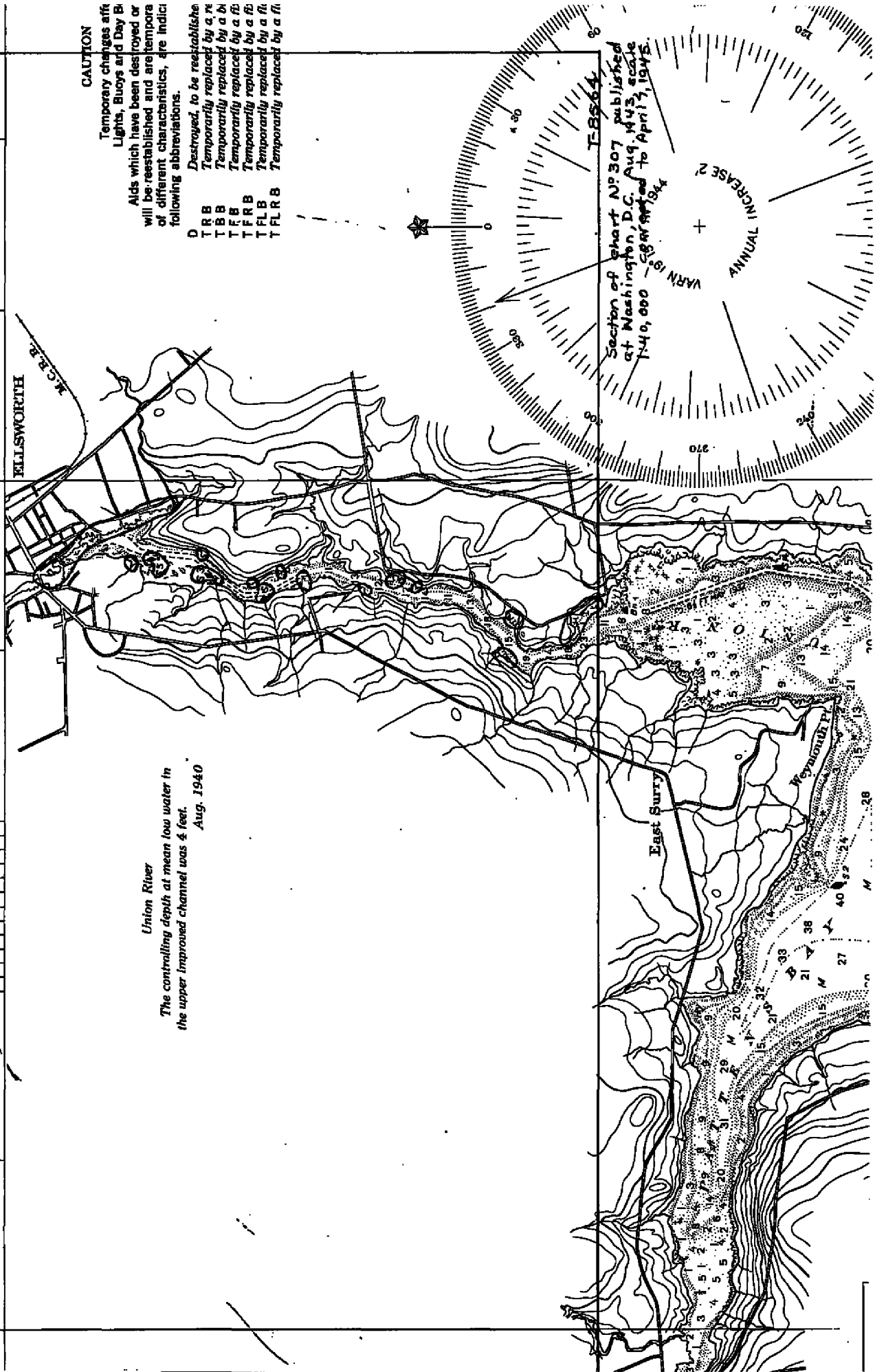
ELLSWORTH

K.C.B. B.

**CAUTION**  
 Temporary changes affecting Lights, Buoys and Day Beacons which have been destroyed or will be re-established and are temporary of different characteristics, are indicated by the following abbreviations.

- D Destroyed, to be re-established
- TRB Temporarily replaced by a red buoy
- TBB Temporarily replaced by a black buoy
- TFRB Temporarily replaced by a red and black buoy
- TFLB Temporarily replaced by a float buoy
- TFLRB Temporarily replaced by a float red and black buoy

*Union River*  
 The controlling depth at mean low water in the upper improved channel was 4 feet. Aug. 1940



Division of Photogrammetry  
Review Report of  
Shoreline Survey Manuscript T-8564

Paragraph numbers used in this report refer to paragraph numbers in the descriptive report.

28 to 32. Compilation.-

The shoreline and planimetry shown on the map manuscript are complete and in accordance with project instructions and no significant changes were made except for the following.

The rock heights and symbols were changed to conform with Photogrammetry Instructions No. 3, dated December 23, 1946.

Two small bluff areas were added to the manuscript at approximately Lat.  $68^{\circ}25'50''$  - Long.  $44^{\circ}30'10''$  and Lat.  $68^{\circ}25'50''$  - Long.  $44^{\circ}30'20''$  after careful stereoscopic examination.

44. Comparison with Existing Topographic Surveys.-

This survey (T-8564) supersedes the following older U.S.C. & G.S. survey in all common detail except for that discussed below.

T-1494 1:10,000 1878-79

Survey T-1494 shows the low water line much closer to the center of Union River than survey T-8564 indicates. Inasmuch as the field report for survey T-8564 states that only a "very small portion of the mean-low-water line has been identified by the field unit", it is believed that until investigated by the hydrographic party the mean-low-water line on survey T-1494 should be accepted.

Comparison has been made between map manuscript T-8564 and the following U.S.G.S. and War Department, Corps of Engineers, quadrangles, and good agreement exists in all common detail except as noted under "Notes to the Reviewer" in the descriptive report.

U.S.G.S. Ellsworth Quadrangle (Hancock County), Maine, 15 minute series, 1:62,500, edition of 1911, reprinted 1942.

War Dept., Corps of Engineers, U. S.  
Army, Ellsworth Quadrangle (Hancock  
County), Maine, 15 minute series,  
1:62,500, edition of 1942.

45. Comparison with Nautical Charts.-

This survey was compared with U.S.C. & G.S. nautical chart number 307, edition of August 1943, corrected to August 1943, 1:40,000. Discrepancies between these maps are adequately discussed under item 45 and "Notes to the Reviewer" in the descriptive report.

This survey has not been applied to nautical charts prior to this review.

Reviewed by:

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