TP 01140

TP01140

NOAA FORM 76-35
(3-76)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

This Map Edition Will Not Be Field Edit

Map No.	*Edition No.*
TP-01140	I

Job No.
CM-8108

Map Classification
III

Type of Survey
Shoreline

LOCALITY

State
Texas

General Locality
Houston

Locality
Houston To Harrisburg

1982 TO 19

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-01140

MAP EDITION NO. (I)

MAP CLASS III

JOB PH-CM-8108

PHOTOGRAMMETRIC OFFICE: Rockville, Md.

OFFICER-IN-CHARGE: Ronald Brewer

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH. ____

MAP CLASS ____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotriangulation	5/26/83	Field	10/30/81
Office	8/9/83		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Lambert Conformal Conic Projection

4. GRID(S): STATE: Texas; ZONE: South Central

5. SCALE: 1:10,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	R. Johanson	1/84
METHOD: Analytic	LANDMARKS AND AIDS BY	R. Johanson	1/84
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	J. Schad	9/84
METHOD: Calcomp	CHECKED BY	N/A	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. Johanson	10/84
	CHECKED BY	J. Schad	10/84
INSTRUMENT: Wild B-8	CONTOURS BY	N/A	
SCALE: 1:10,000	CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Johanson	10/84
	CHECKED BY	J. Schad	10/84
METHOD: Smooth Drafted	CONTOURS BY	N/A	
	CHECKED BY	N/A	
	HYDRO SUPPORT DATA BY	N/A	
SCALE: 1:10,000	CHECKED BY	N/A	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	N/A	
6. APPLICATION OF FIELD EDIT DATA	BY	N/A	
	CHECKED BY	N/A	
7. COMPILATION SECTION REVIEW	BY	J. Schad	12/84
8. FINAL REVIEW	BY	E. Allen	1/85
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	E. Allen	4/85
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	J. Schad	5/85
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E DAUGHERTY	MAY 1985

★ U.S. G.P.O. 1972-769380/547 REG.#6

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-01140

1. COMPILATION PHOTOGRAPHY

CAMERA(S) F/L=(152,71
Wild RC-8E

TIDE STAGE REFERENCE
- [x] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- ~~(C)~~ COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Central — [x] STANDARD
MERIDIAN: 90 th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
82 E(C) 8485-89	2/16/82	1245	1:30,000	1.02 ft.

REMARKS
Based on predicted tide reference Station Galveston, Sub Sta. Morgan Point

2. SOURCE OF MEAN HIGH-WATER LINE:

The Photographs listed above.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

N/A

4. CONTEMPORARY HYDROGRAPHIC SURVEYS *(List only those surveys that are sources for photogrammetric survey information.)*

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
N/A	TP-01141	N/A	N/A

REMARKS

* U.S. G.P.O. 1972-769381/568 REG.#6

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

TP-01140

I. [X] FIELD ~~INSPECTION~~ OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R.S. Tibbetts	3/82
2. HORIZONTAL CONTROL	RECOVERED BY	R.S. Tibbetts	3/82
	ESTABLISHED BY	~~N/A~~ "	"
	~~XXXXXXXXXX~~ IDENTIFIED BY	R.S. Tibbetts	3/82
3. VERTICAL CONTROL	RECOVERED BY	N/A	
	ESTABLISHED BY	N/A	
	PRE-MARKED OR IDENTIFIED BY	N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	N/A	
	LOCATED *(Field Methods)* BY	N/A	
	IDENTIFIED BY	N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Photoidentified

2. VERTICAL CONTROL IDENTIFIED
N/A

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82E(C) 8734	Fire, 1942 Sub.Sta. A&B&C		

3. PHOTO NUMBERS *(Clarification of details)*
N/A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
N/A

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: [ ] REPORT [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [ ] NONE

7. SUPPLEMENTAL MAPS AND PLANS
N/A

8. OTHER FIELD RECORDS *(Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division)*
one Field Book CM-8108 Houston Ship Channel
Project Report
CSI Cards

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

TP-01140

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Map	May 1985	Class III	May 1985	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1 Page	NOAA form 76-40	May 1985	Landmarks
3 Pages	PIM's	May 1985	Possible Landmark Features

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

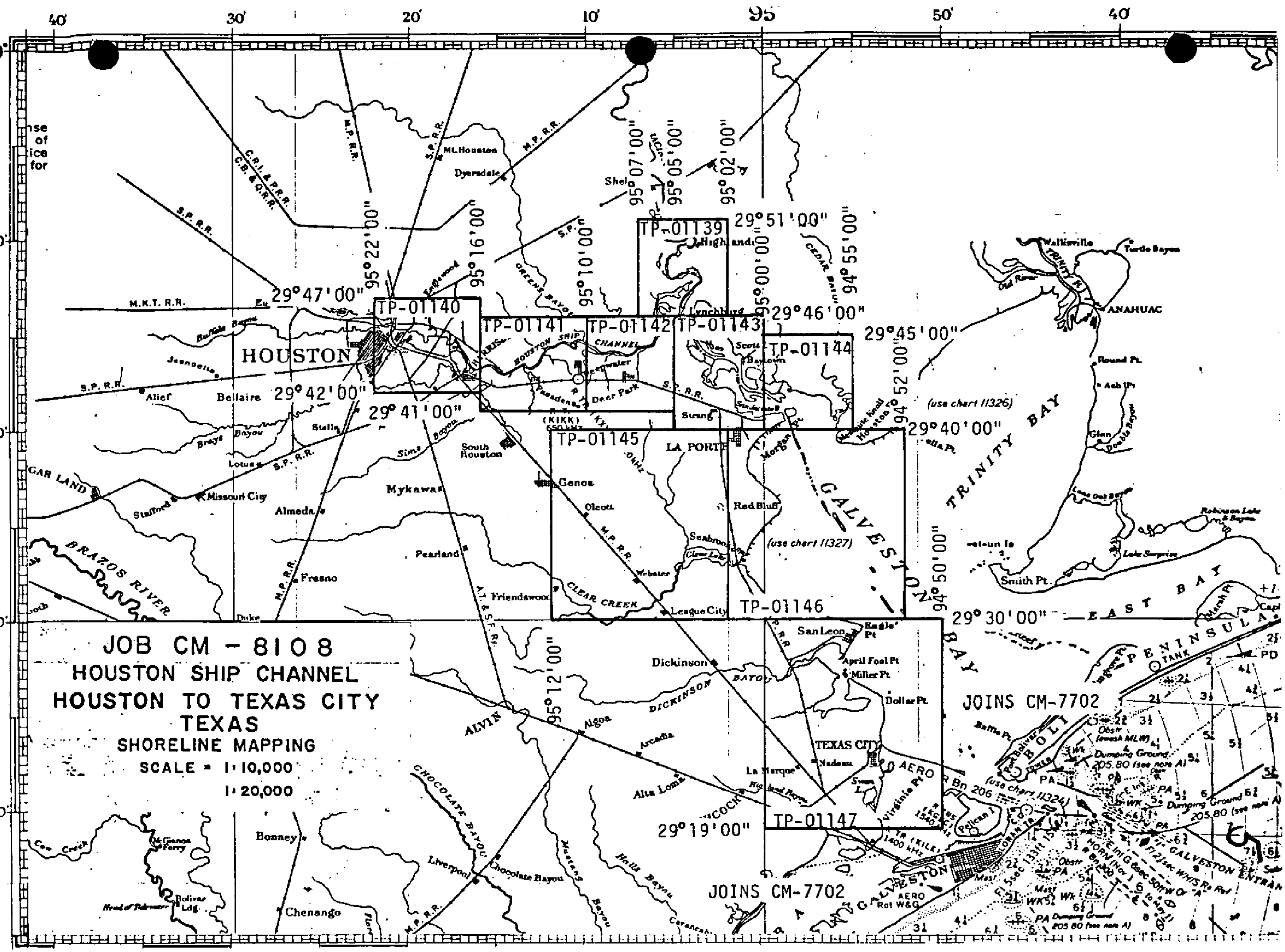
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS *(This section shall be completed each time a new map edition is registered)*

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6


JOB CM - 8108
HOUSTON SHIP CHANNEL
HOUSTON TO TEXAS CITY
TEXAS
SHORELINE MAPPING
SCALE = 1:10,000
1:20,000
TP-01139
TP-01140
TP-01141
TP-01142
TP-01143
TP-01144
TP-01145
TP-01146
TP-01147
JOINS CM-7702
JOINS CM-7702
29°51'00"
29°47'00"
29°46'00"
29°45'00"
29°42'00"
29°41'00"
29°40'00"
29°30'00"
29°19'00"
95°22'00"
95°16'00"
95°12'00"
95°10'00"
95°07'00"
95°05'00"
95°02'00"
95°00'00"
94°55'00"
94°52'00"
94°50'00"
HOUSTON
TRINITY BAY
GALVESTON BAY
EAST BAY
BRAZOS RIVER
CHOCOLATE BAYOU
CLEAR CREEK
DICKINSON BAYOU
(use chart 11326)
(use chart 11327)
(use chart 11324)
TEXAS CITY
LA PORTE
ALVIN
ANAHUAC
Wallisville
Highlands
Lynchburg
Baytown
Pasadena
Deer Park
Genoa
South Houston
Mykawa
Pearland
Friendswood
League City
Webster
Seabrook
Red Bluff
Dickinson
La Marque
San Leon
Alief
Bellaire
Missouri City
Stafford
Almeda
Fresno
Algoa
Alta Loma
Arcadia
Liverpool
Bonney
Chenango
Smith Pt.
Dyersdale
Mt. Houston
M.K.T. R.R.
S.P. R.R.
M.P. R.R.
A.T. & S.F. Ry.
C.R.I. & P.R.R.
C.B. & Q.R.R.
40'
30'
20'
10'
95
50'
40'
30°
50'
40'
30'
20'

SUMMARY

TP- 01140

This 1:10,000 scale final shoreline map is one of nine maps that comprise project CM-8108, Houston Ship Channel, Houston to Texas City, Texas.

The purpose of this survey is to provide data to be used in nautical chart maintenance and new chart construction.

Field operations consisted of aerial photography, and the recovery and establishment of horizontal control necessary for the aerotriangulation of the project.

Natural color photographs were used to complete this segment of survey. The 1:50,000 scale photographs were taken November 11, 1981, and October 15, 1982. The 1:30,000 scale photographs were taken November 5, 1982. The 1981 photographs were exposed with the Wild RC-8(E) camera and the 1982 photographs with the Wild RC-10(B) camera.

Compilation was performed by the Coastal Mapping Unit, Rockville, Maryland. Final review was conducted by personnel of the Coastal Mapping Unit.

FIELD INSPECTION

TP-01140

There was no field inspection prior to compilation. Field work accomplished was limited to the taking of the color photographs and the recovery and establishment of horizontal control necessary for the aerotriangulation.

Photogrammetric Plot Report

Houston Ship Channel, Texas

CM-8108

January 1984

21. Area Covered

This report pertains to six sheets, three 1:10,000 scale sheets, TP-01140 to TP-01142. Three 1:20,000 scale sheets, TP-01145 to TP-01147. The area covered is the shorelines of Houston Ship Channel, the west shore of Galveston Bay from Morgan Point to Virginia Point and the Clear Lake area.

22. Method

Five strips were bridged by analytical aerotriangulation methods. Strips four and five were bridged on the Wild STK and strips one, six, and seven were bridged on the NOSAP. Strip one is 1:30,000 scale and the other four strips are 1:50,000 scale. Field identified control and tie points were used for the strip adjustment. Ratio values were determined for the bridging photographs as well as 1:50,000 MLLW IR photography. State Plane Coordinates in the Texas, South Central Zone were used for the strip adjustments and for plotting on the Coradomat.

23. Adequacy of Control

The control was adequate for the job and was within the National Standards of Map Accuracy.

24. Supplemental Data

USGS quadrangles was used to provide vertical control for the strip adjustments.

25. Photography

The photography was adequate for the job.

Submitted by,

Rick Johanson

Rick Johanson

Approved and Forwarded:

Don O. Norman

Don O. Norman
Chief, Aerotriangulation Unit

Houston Ship Channel, Texas

CM-8101

Fit to Control
X and Y in Feet

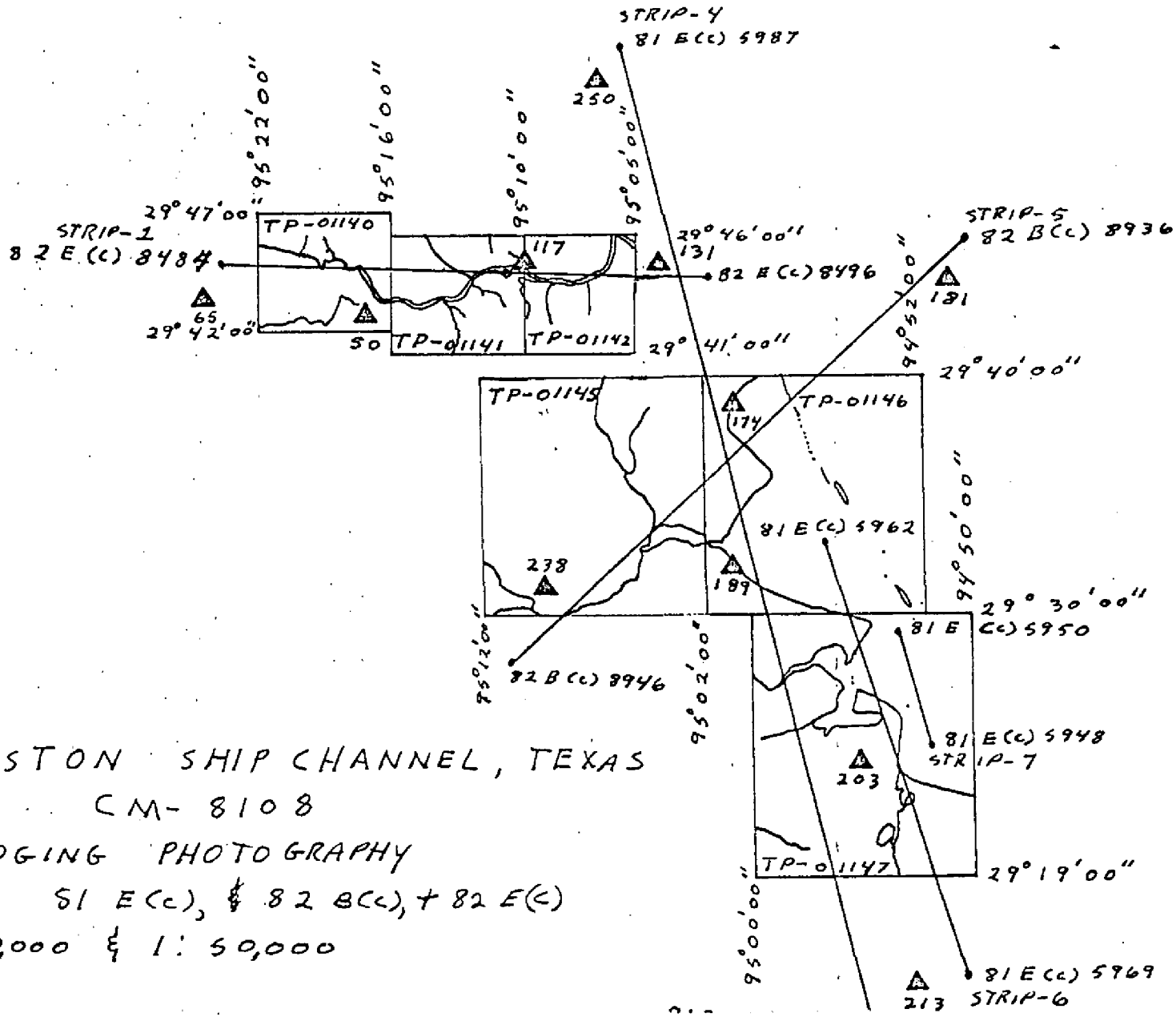
		Name		Point No.	X	Y
		Strip 1				
	65	Rice, 1942				
△			Sub Pt A	484101	1.1	-2.1
△			Sub Pt B	484102	-0.8	1.9
	50	Fire, 1942				
			Sub Pt A	489101	0.3	3.6
△			Sub Pt B	489102	-0.4	-0.6
△			Sub Pt C	489103	-0.7	1.1
	2	Galena Park Water Tank 2 1968		490108	4.7	5.0
	117	Houston Ethyle Gas Corp Water Tower, 1952				
△			Sub Pt A	492101	1.3	0.5
△			Sub Pt B	492102	-0.2	-1.0
	121A	Deer Park Shell Refining Co. Tallest Stack 1955		494121	0.4	-0.8
	125	San Jacinto Battle Field Monument 1963		965140	0.0	5.9
	131	Park, 1955				
			Sub Pt A	983101	0.8	1.5
△			Sub Pt C	983103	-0.4	0.1
		Strip 6				
	203	Texas City, Municipal Tank 9th Ave. & 14th Street North, 1960				
△			Sub Pt A	974101	0.4	3.1
△			Sub Pt B	974102	1.9	5.0
	213	Nass., 1933				
△			Sub Pt A	970101	4.3	2.4
△			Sub Pt B	970102	4.4	1.4

	Name	Point No.	X	Y
△	Tie from Strip 4	963802	-0.2	-1.
△	" " " "	964801	-1.1	-0.
△	" " " "	964802	0.4	-2.
△	" " " "	965801	-1.8	2.
△	" " " "	965802	1.8	2.
△	" " " "	966801	0.7	-1.
△	" " " "	966802	2.6	-1.
△	" " " "	967801	-2.2	-3.
△	" " " "	967802	-1.6	-3.
△	" " " "	968801	-1.7	0.
△	" " " "	968802	-4.2	-3.
△	" " " "	969801	-2.5	-1.
△	Tie from Strip 4	969802	-1.0	1.
	Strip 7			
△	Tie from Strip 6	498801	0.1	1.
△	" " " "	498802	0.2	-1.
△	" " " "	498803	0.3	-1.
△	" " " "	498804	-0.6	0.
△	" " " "	498805	0.2	0.
△	Tie from Strip 6	498806	-0.2	0.

	NAME	POINT NO.	X	Y
	Strip #4 1:50,000 scale photography			
△	Nass, 1933 Sub Point A	970101	-0.7	-0.1
	Sub Point B	970102	8.3	2.7
	Texas City Municipal Tank 9th Ave. & 14th St., North 1960	974100	4.2	2.3
△	Sub Point A	974102	3.2	2.0
	Sub Point B	974102	3.1	3.5
△	Hanson, 1933 Sub Point A	978101	-7.5	-2.2
	Sub Point B	978102	-11.7	3.2
	Tie from Strip 5	941801	1.4	-3.7
	" " " "	941802	1.3	-3.6
	" " " "	941803	-1.1	.0
	" " " "	941804	-1.8	.0
	La Porte St. Marys Church Cross 1932	981100	3.4	-2.4
△	Sub Point A	981101	2.5	-2.0
△	Sub Point B	981102	3.8	2.5
	Park, 1955 Sub Point A	983101	-0.6	-0.2
	Sub Point B	983102	-0.7	4.7
△	Sub Point C	983103	-0.8	0.5
	Sheldon, Southland Paper Mill Inc. Stack, 1968			
△	Sub Point A	987101	-2.4	-2.4
	Sub Point B	987102	0.2	1.9
△	Sub Point C	987103	1.8	1.8

Strip #5 1:50,000 scale photography

	NAME		POINT NO.	X	Y
	Barrow 2, 1963	Sub Point A	936102	-0.8	-0.9
△		Sub Point B	936103	0.2	0.2
△	Tie from Strip 4		941801	-0.5	1.2
△	" " " "		941802	-0.3	1.0
	La Porte St. Marys Church Cross				
	1932		981100	-8.1	-3.1
△		Sub Point A	981101	0.8	-2.3
		Sub Point B	981102	0.8	4.2
	Tie from Strip 4		941803	1.8	-2.6
	" " " "		941804	2.4	-2.7
△	Whitcomb, 1968	Sub Point A	945101	-0.1	-0.1
		Sub Point B	945102	0.1	1.1
		Sub Point C	945103	2.2	-1.6



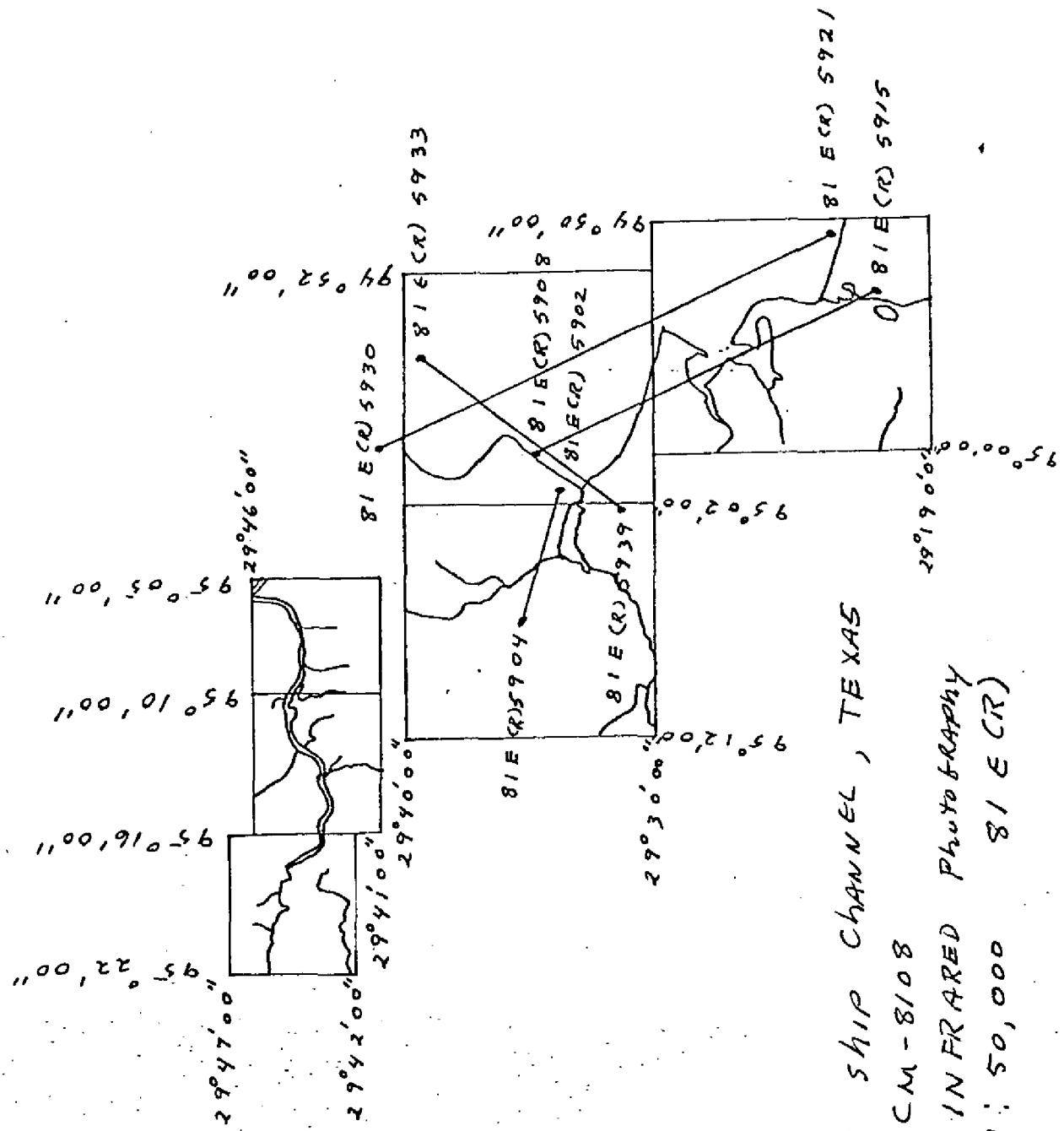
HOUSTON SHIP CHANNEL, TEXAS

CM-8108

BRIDGING PHOTOGRAPHY

81 E(c), & 82 B(c), + 82 E(c)

1:30,000 & 1:50,000


HOUSTON SHIP CHANNEL, TEXAS
CM-8108
MLLW INFRARED PHOTOGRAPHY
1:50,000 81E(R)
81E(R)5930
81E(R)5933
81E(R)5908
81E(R)5902
81E(R)5904
81E(R)5939
81E(R)5921
81E(R)5915
29°46'00"
29°44'00"
29°42'00"
29°41'00"
29°30'00"
29°19'00"
95°22'00"
95°19'00"
95°16'00"
95°13'00"
95°10'00"
95°07'00"
95°04'00"
95°01'00"
94°58'00"
94°55'00"

Houston Ship Channel, Texas

CM-8108

January 1984

Ratio values for 1:50,000 scale bridging photography:

81 E(C) 5970-5987	X 2.531
82 B(C) 8936-8946	X 2.492
81 E(C) 5962-5969	X 2.538
81 E(C) 5948-5950	X 2.530

Ratio values for 1:30,000 scale bridging photography:

82 E(C) 8484-8496	X 3.1005

Ratio values for 1:50,000 scale MLLW black-and-white infrared photography:

81 E(R) 5902-5904	X 2.526
81 E(R) 5909-5915	X 2.526
81 E(R) 5921-5930	X 2.532
81 E(R) 5933-5939	X 2.528

NOAA FORM 76-41
(6-75)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01140	CM-8108	NA 1927	Compilation

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Texas ZONE South Central	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
Houston Gulf Atlantic Water Tank 1968	Quad G 14197 P. 20	104 B	x= 3180898.468	φ 29° 43 ' 47.927	
			y= 708394.793	λ 95 16 42.934	
Fire	Quad 290951 Sta. 1027	489100	x= 3179491.79	φ 29 43 04.539	
			y= 703965.42	λ 95 17 00.478	
Houston Southwestern Bell Tele Radio Mast 1952	Quad 290951 Sta. 1300	13	x= 3166751.13	φ 29 45 11.641	
			y= 716406.94	λ 95 19 20.469	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. O. Johanson	DATE 11/16/84	LISTING CHECKED BY L W Harrod Jr.	DATE 4/13/83
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT
Job CM-8108
TP-01140

31. Delineation

Delineation was accomplished using the Wild B-8 stereoplotter and is based on office interpretation of the bridged natural color photographs. Ratio photographs were used as an aid in interpreting and verifying the compilation of the manuscript.

32. Control

Horizontal control was furnished by the Aerotriangulation Unit and was adequate in controlling the stereomodels.

Vertical control used in leveling the stereomodel was taken from USGS quadrangles.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable to this manuscript. Drainage was delineated from stereomodels set on the Wild B-8 by office interpretation of the bridging photographs.

35. Shoreline and Alongshore Detail

All shoreline and alongshore detail was compiled using the Wild B-8 stereoplotter. No Mean Lower Low Water was compiled and no field edit will be performed.

36. Offshore Detail

An obstruction was located in the Buffalo Bayou waterway.

37. Landmarks and Aids to Navigation

One landmark were located by aerotriangulation methods and verified during compilation. Two additional landmarks and thirty-three possible landmarks were located during compilation by the Coastal Mapping Unit.

No aids to navigation were located.

38. Control for Future Surveys - None

39. Junctions

See attached form 76-36B, item 5 of the Descriptive Report.

40. Horizontal and Vertical Accuracy

This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

41. through 45. - Not Applicable

46. Comparison with Existing MAPS

A comparison was made with the following 1:24,000 scale U.S. Geological Survey quadrangles:

Park Place, Texas, 1967
Settegast, Texas, 1967

47. Comparison with Nautical Charts

A comparison was made with National Ocean Service.
Chart; 11329, 23rd Edition, December 25, 1982, scale 1:10,000

Items to be applied to Nautical Charts immediately. - None

Items to be carried forward. - None

Submitted by,

Rick Johanson

Rick Johanson

Approved and Forwarded:

Chief, Coastal Mapping Unit

19

JAN 28 1985

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8108 (Houston Ship Channel, Texas)

TP-01140

Brady Island
Brays Bayou
Buffalo Bayou
Club Bayou
Galveston Houston and Henderson (RY)
Harrisburg
Harrisburg Bend
Houston
Houston Belt and Terminal (RR)
Port Terminal (RR)
Southern Pacific (RR)
Turkey Bend
Turkey Bend Cutoff
Whiteoak Bayou

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
SHORELINE SURVEY

TP-01140

61. GENERAL STATEMENT

A final review was performed for this shoreline map. No major discrepancies were encountered. Refer to the summary bound with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS - None.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS - None.

65. COMPARISON WITH NAUTICAL CHARTS

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Edward Allen
Cartographer

Approved and Forwarded:

Acty. Chief, Photogrammetric Section

Acting Chief, Photogrammetry Branch

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

☐ TO BE CHARTED
☒ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Rockville, Md.
STATE: Texas
LOCALITY: Galveston Bay
DATE: 11/84

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.:
JOB NUMBER: CM-8108
SURVEY NUMBER: TP-01140
DATUM: N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	Position ~~FIXED~~ Quality	CHARTS AFFECTED
TOWER		29 45	48.90	95 20	49.27	82 E(C) 8486 2/16/82	Manually Digitized	11329
TOWER		29 45	46.97	95 20	45.10	82 E(C) 8486 2/16/82	Manually Digitized	11329
MICRO TOWER	(Houston Southwestern Bell Tele Radio Mast 1952)	29 45	11.641	95 19	20.469	82 E(C) 8487 2/16/82	Geodetic Position	11329

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64.

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.

EXAMPLE: 75E(C)6042
8-12-75

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	8 - Sextant

A. Field positions* require entry of method of location and date of field work.

EXAMPLE: F-2-6-L
8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.

EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery.

EXAMPLE: Triang. Rec.
8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.

EXAMPLE: V-Vis.
8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

☆ U.S. GPO:1975-0-665-080/1155

10/83

MAP FEATURES OF POSSIBLE LANDMARK VALUE

MAP NO.	JOB NO.	GEOGRAPHIC AREA	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01140	CM-8108	Galveston Bay	NA 1927	Compilation

CHARTING NAME	DESCRIPTION	PHOTO NO. (Date of Photo)	PLANE COOR. (FT) STATE Texas ZONE South Central	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	POSITION QUALITY
TOWER		82 E(C) 8489 2/16/82	X	φ 29° 43' 35.96"	Manually Digitized
			Y	λ 95 16 51.51	
TOWER		82 E(C) 8489 2/16/82	X	φ 29 43 41.26	Manually Digitized
			Y	λ 95 16 55.49	
TOWER		82 E(C) 8488 2/16/82	X	φ 29 43 17.60	Manually Digitized
			Y	λ 95 17 08.23	
TOWER		82 E(C) 8488 2/16/82	X	φ 29 43 23.75	Manually Digitized
			Y	λ 95 17 10.52	
TOWER		82 E(C) 8488 2/16/82	X	φ 29 45 14.27	Manually Digitized
			Y	λ 95 18 07.10	
TOWER		82 E(C)8488 2/16/82	X	φ 29 45 10.47	Manually Digitized
			Y	λ 95 18 09.86	
TOWER		82 E(C) 8487 2/16/82	X	φ 29 45 42.22	Manually Digitized
			Y	λ 95 20 00.69	
TOWER		82 E(C) 8487 2/16/82	X	φ 29 45 39.24	Manually Digitized
			Y	λ 95 20 01.36	
TOWER		82 E(C) 8487 2/16/82	X	φ 29 45 42.71	Manually Digitized
			Y	λ 95 20 23.12	
TOWER		82 E(C) 8487 2/16/82	X	φ 29 45 38.77	Manually Digitized
			Y	λ 95 20 22.45	
TOWER		82 E(C) 8486 2/16/82	X	φ 29 45 36.90	Manually Digitized
			Y	λ 95 20 49.03	
TOWER		82 E(C) 8486 2/16/82	X	φ 29 45 40.31	Manually Digitized
			Y	λ 95 20 47.64	

NOTE: The objects have not been inspected from seaward to determine their value as landmarks.

LISTED BY	DATE	LISTING CHECKED BY	DATE
R. J. Schanen	11/6/84	Edward D. Allen	11/6/84

10/83

MAP FEATURES OF POSSIBLE LANDMARK VALUE

MAP NO.	JOB NO.	GEOGRAPHIC AREA	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01140	CM-8108	Galveston Bay	NA 1927	Compilation

CHARTING NAME	DESCRIPTION	PHOTO NO. / Date of Photo	PLANE COOR. (FT) STATE Texas ZONE South Central	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	POSITION QUALITY
STACK		82 E(C) 8486 2/16/82	X Y	φ 29° 45' 57.07" λ 95 21 03.80	Manually Digitized
TOWER		82 E(C) 8486 2/16/82	X Y	φ 29 45 46.57 λ 95 21 12.90	Manually Digitized
CHIMNEY		82 E(C) 8486 2/16/82	X Y	φ 29 46 01.01 λ 95 21 12.94	Manually Digitized
CHIMNEY		82 E(C) 8486 2/16/82	X Y	φ 29 46 01.07 λ 95 21 13.25	Manually Digitized
CHIMNEY		82 E(C) 8486 2/16/82	X Y	φ 29 46 08.90 λ 95 21 26.11	Manually Digitized
TANK		82 E(C) 8489 2/16/82	X Y	φ 29 43 10.51 λ 95 16 08.34	Manually Digitized
TANK	HOUSTON GULF ATLANTIC WATER TANK 1968	82 E(C) 8489 2/16/82	X Y	φ 29 43 47.927 λ 95 16 42.934	Geodetic Station
TOWER		82 E(C) 8486 2/16/82	X Y	φ 29 45 59.60 λ 95 20 51.85	Manually Digitized
TOWER		82 E(C) 8486 2/16/82	X Y	φ 29 45 55.65 λ 95 20 52.21	Manually Digitized
STACK		82 E(C) 8489 2/16/82	X Y	φ 29 43 18.63 λ 95 16 02.19	Manually Digitized
CHIMNEY		82 E(C) 8489 2/16/82	X Y	φ 29 44 29.83 λ 95 17 00.67	Manually Digitized
TANK		82 E(C) 8489 2/16/82	X Y	φ 29 45 04.21 λ 95 16 47.26	Manually Digitized

NOTE: The objects have not been inspected from seaward to determine their value as landmarks.

LISTED BY	DATE	LISTING CHECKED BY	DATE
K O Johnson	11/5/84	Edward D Adams	11/6/84

10/83

MAP FEATURES OF POSSIBLE LANDMARK VALUE

MAP NO.	JOB NO.	GEOGRAPHIC AREA	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01140	CM-8108	Galveston Bay	NA 1927	Compilation

CHARTING NAME	DESCRIPTION	PHOTO NO. / Date of Photo	PLANE COOR. (FT) STATE Texas ZONE South Central	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	POSITION QUALITY
TANK		82 E(C) 8488 2/16/82	X	φ29° 45' 20.69"	Manually Digitized
			Y	λ95 18 05.87	
STACK		82 E(C) 8488 2/16/82	X	φ29 45 06.31	Manually Digitized
			Y	λ95 18 30.21	
TANK		82 E(C) 8487 2/16/82	X	φ29 45 34.32	Manually Digitized
			Y	λ95 19 18.76	
TOWER		82 E(C) 8487 2/16/82	X	φ29 45 36.01	Manually Digitized
			Y	λ95 20 04.87	
TOWER		82 E(C) 8487 2/16/82	X	φ29 45 35.52	Manually Digitized
			Y	λ95 20 05.26	
STACK		82 E(C) 8487 2/16/82	X	φ29 45 32.83	Manually Digitized
			Y	λ95 20 07.52	
STACK		82 E(C) 8487 2/16/82	X	φ29 45 31.85	Manually Digitized
			Y	λ95 20 08.37	
TOWER		82 E(C) 8486 2/16/82	X	φ29 45 46.97	Manually Digitized
			Y	λ95 20 45.10	
Tower		82 E(C) 8487 2-16-82	X	φ29 45 25.746	Aerotriangulated
			Y	λ95 20 18.274	
			X	φ	
			Y	λ	
			X	φ	
			Y	λ	
			X	φ	
			Y	λ	

NOTE: The objects have not been inspected from seaward to determine their value as landmarks.

LISTED BY	DATE	LISTING CHECKED BY	DATE
RO Johnson	11/5/84	Edward D. Adams	11/6/84

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.