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Form 504 Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 1

REGISTER NO. 535/

State
General locality Matagorda Bay
Locality Gallinipper Point to Pott O'Connor to Gallinipper Point
Scale 1:20,000 Date of Survey Compilation April May 1934
Wessel Army Air Corps Camera: Fairchild T-3A-31-76 Compilation Party # 20, Corpus Christi, Texas
Chief of party T. M. Price Jr.
Surveyed by See data sheet in the descriptive report
Inked by J. R. Reynolds
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated November 7 , 19.33
Remarks: Compilation of aerial photographs Cl - C24. El - El3.
Sheet reduced to scale and printed by photo-lithographic process.

- NOTES ON COMPILATION -

SHEET NO. 1 (5351)

PHOTOS, No. C-1 to No. C-24 No. E-1 to No. E-13 (in part)

DATE OF PHOTOGRAPHS November 23, 1933	TIME "2:51 - 3:00 P.M. 3:22 - 3:45 P.M.
ВУ	DATE
SCALE FACTOR (1.01)(sgd) W. H. Burwell	3/10/34
PROJECTION (sgd) T. M. Price Jr.	3/13/34
PROJECTION CHECKED (sgd) W. H. Burwell	3/14/34
CONTROL PLOTTED (sgd) J. R. Keynolds	3/15/34
CONTROL CHECKED (sgd) W. M. Crook	3/15/34
TOPOGRAPHY TRANSFERED	
TOPOGRAPHY CHECKED	
SMOOTH RADIAL LINE PLOT (sgd) J. R. Reynolds	3/30/34
RADIAL LINE PLOT CHECKED (sgd) T. M. Price Jr.	3/31/34
DETAIL INKED (sgd) J. R. Reynolds	5/15/34
AREA OF DETAIL INKED 51.8	Sq.statute miles
LENGTH OF SHORE LINE OVER 200m. 40.2	Statute miles
LENGTH OF SHORE LINE UNDER 200m. 17.3	Statute miles
GENERAL LOCATION Matagorda Bay, Texas	
LOCATION Port O'Connor to Gallinipper	Point

DATUM STATION

Indianola 2, 1934

Meters
Latitude 28-31-49.124 1512.3 (unadjusted)
Longitude 96-30-43.904 1193.7
(position from field computations)

COMPILER'S REPORT for PHOTO TOPOGRAPHIC SHEET FIELD NO. 1 (5351)

1. GENERAL INFORMATION

This sheet was compiled from photographs taken by the U. S. Army Air Corps using Fairchild τ -3A camera # 31-76. The photographs used are # 1-24 C flight and a part of # 1-13 E flight. The flights for the photographs were made November 23, 1933 at 2:51 - 3:00 P.M. and 3:22 - 3:45 P.M. respectively.

The tide in Matagorda and Espiritu Santo Bays is small and the only difference in its stage that would affect interpretation of the aerial photographs would be caused by strong continued winds. The height of water at the time the pictures were taken however is considered normal.

2. CONTROL

(a) Sources

Triangulation by Lieut. E. O. Heaton, 1934. This control is adjusted to 1927 N.A. Datum. The field parties' geographic positions were used. The difference between the unadjusted and final adjusted positions would be unplottable at the scale of this compilation.

(b) Errors

No errors in control found by radial line plot.

An error in the field inspection parties' location of Port
O'Connor, Beacon # 3 was brought out by the radial plot.

This beacon was first spotted at the SW end of the jetty
and has been relocated properly 7 meters NE along jetty
from the end. This beacon does not show on this sheet but was
used by joining another sheet, and was a factor in the radial
plot in the vicinity of Port O'Connor.

(c) Remarks

The U.S. Engineers stations shown on this sheet were relocated by observations by Lieut. E. O. Meaton, 1934.

The hydrographic stations (shown by black circles) were located on the ground and spotted directly on the photographs by the field inspection party and their position is established by the radial plot only.

to tail from the somehern and of this competation was transferred to T-5045 giving about a mile overlap on the two surveys. Paragraphs in this report concerning attail in the vicinity of Port Common affely also & T-5045.

3. COMPILATION

(a) Method

The usual radial line method of plotting from five lens photographs was used in the compilation of this sheet. There was no departure from standard practice *

(b) Adjustment of Plot

The photographs covered by this sheet appear to be free of excessive tilt and scale fluctuation and the radial plot required no unusual adjustments. The control is strong and the radial plot gave good intersections. The only difficulty experienced was caused by the wrong location of Port O'Connor Beacon #3 as explained above under Control Errors.

(c) General Description of Topography and Interpretation

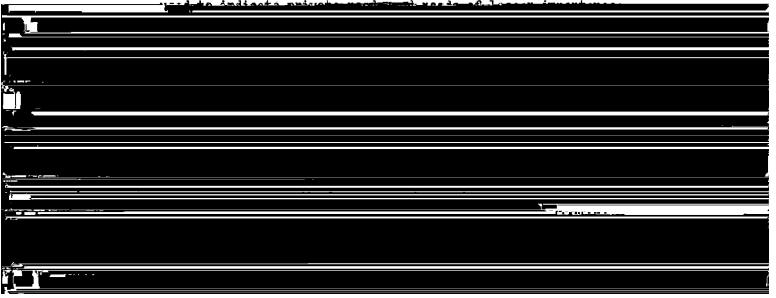
In addition to the General Report of Matagorda and Lavaca Bays by the Field Inspection Party (filed with Descriptive Report Register No. 5351) the following notes are submitted to act as a guide in the interpretation of this sheet since the compiler also assisted in the field inspection of this area:

The coast line of Matagorda Bay between Port O'Connor and Gallinipper Point is in general a narrow sand and shell beach. There are no large trees here and the country, for the most part, is pasture land with grassy sloughs. In the vicinities of Indianola Island, Port O'Connor and Station "Bargo", there are some heavy brush growths. The brush growth shown on this sheet is mesquite, huisache, scrub oak and salt cedar, the tallest seldom exceeding 15 or 20 feet. The general tree symbol was used to denote all of the above growths.

No difficulty was experienced in interpreting the photographic detail.

The low bluff running along the coast was exaggerated in size due to the small scale. Bluff height is from 9 feet to 2 feet.

There were no first order roads in this locality and a double full line was used to indicate the importance rather than the nature of the road. The main roads to the different localities were indicated as such. A double broken line was



All boundaries of shallow water areas (shown by low-water sand symbol) on this sheet were so indicated from their appearance on the photographs alone and cannot be taken as representing the low water line until later revised from hydrographic or ground surveys. No low water line obtained. Approx. low water and shoal areas have been indicated by the same symbol (sanding outside the high water line). See note under "Landmarks" Page 6 P.P. 5.

(d) Information From Other Sources

The high water line and the shoal area in the vicinity of Port
O'Connor between Lat. 28°-25'-30" and Lat. 28°-26'-30"; Long.
96°-24'-10" and Long. 96°-25'-30" were obtained by plane table
(sheet "V") survey, E. O. Heaton, 1934. This detail was transfered
by proportion from the 1:10,000 scale plane table sheet in order
to give a straight line junction, and it was found to be in agreement with the detail as represented by the photographs.

(e) Conflicting Names

There are no names on the sheet conflicting with names shown on the U. S. C. & G. S. charts of this area.

(f) List of Names

Foster Ranch
W. L. Moody Jr. Ranch
The above new names were givent to represent localities hitherto
not named on charts. Local inhabitants were the source of these
names and they have general acceptance in the locality. The
following new names were taken from the Calhoun Co., Texas map:
Old Town Lake; Blind, Boggy, La Salle, Orange, Huckleberry, Big Dam
Bayous.

4. COMPARISON WITH OTHER SURVEYS

Surveys of this area were made by the Coast and Geodetic Survey about 1880 (chart #1284) and the Intracoastal Waterway Survey, U. S. Engineers 1927-8 (Sheet #1 Section #9). No comparison to the U. S. E. surveys was made. See Page 7 for comparison to chart #1284.

This sheet is joined by sheet Reg. No. 5357 (field No. 7) on the Now and by northeast, by Sheet Reg. No. 5364 (field No. 14) on the southeast, 75045, 1:20.000.

(and 1:10,000 plane table Sheet) "V" of Lieut. E. O. Heaton on the southwest. The junction with adjoining sheets is satisfactory.

Southwest. The beacon marking a wrock at hat 2f°31.3' hong. 96.2 P.4' will not be shown on this compilation.

LANIMARKS (scatted by triangulation and san not be seen on the photographs. It will be certain buildings in

Port O'Eonnor were considered but rejected because it is thought they are not sufficiently conspicuous. Building (Moody barn), also recommended as landmark and listed on form #567 (list of landmarks).

The following landmarks and features shown on former charts covered by this sheet should be removed.

- (1) All roads shown which do not agree with this sheet, because of changes since last survey.
- (2) St. L. B. & M. Ry. into Port O'Connor should be shown as abandoned.

LANDMARKS (Continued)

- (3) Tank (Lat. 280-26'-32", Long. 960-24'-38") landmark at Port 750 450 Connor should be removed because it is no longer in existence.
- (4) Building (Lat. 28°-26'-32", Long. 96°-24'-10") should be removed because it is no longer existent or no longer prominent.
- Note: Formerly a hotel. Now the site is occupied by a house which is not prominent.
- (5) The double dash line extending offshore at Lat. 28°-26'-32", T5045 Long. 96°-24'-38", and the parallel single dash lines extending off shore at Lat. 28°-30'-50", Long. 96°-29'-15", have no present significance as could be seen from the photographs and ground observations but their removal should be subject to the approval of the officer executing the hydrography of this vicinity.

Note: The above double dash line indicated a pier which does not now exist. However, several piles of this pier exist and are a danger. These piles could not be located accurately by use of the photographs.

6. RECOMMENDATIONS FOR FURTHER SURVEYS

The compilation of this sheet is believed to have the probable error of 5 meters in well defined detail of importance for charting and of 8 meters for other data. It is understood that the widths of reads, etc. may be slightly expanded in order that the detail may be kept clear and to keep it from photographing as a solid area in the photo-lithographic process.

7. RECOVERABLE OBJECTS

The following recoverable objects are among the points selected by the field inspection party for hydrographic stations and their position was determined by the radial plot of this sheet. The field inspection party has submetted descriptions of recoverable objects on Form 524 for those objects marked (d). The hydrographic party has not at this time assigned names to these objects, but there will be added for the possible.

Object	Lat.	D.M. met.	Long.	D.P. met.	Description
Stovepipe -	28-34	1752.8 (95.2)	96-34	847.1 (783.4)	on N. side of shack
Gable (d)	28=33	1334.1 (513.0)	96-32	864.0 (766.9)	N peak of, on house
Windm ≪ .WHITE	28-33	1570.4 (276.7)	96-33	272.3 (1358.5)	V
(Tank) (d)	28-32	1587.6 (259.5)	96-31	462.5 (1168.5)	White
Chimney (d)	28-27	519.5 (1327.5)	96-24	673.0 (959.5)	In center of W side 75045 of house
Chimney	28-26	1805.4 (41.6)	96-24	329.7 (1302.8)	Large white house T5045

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes, within the accuracy stated above and no additional surveys are required.

Submitted by (sgd)

J. R. Reynolds

Assisted by (sgd)

T. M. Price Jr.

DETAIL COMPARISON TO SURVEYS TO 1880 (CHART # 1284)*

1. Change in position of M.H.W. where it crosses the following meridiansor parallels.

	Latitude	Longitude	Change, old (meters		ew ++	Remarks
near	280-351-00*	on 96°-348-00	- 30			
on	280-351-00"	near960-351-00	-102			
near	280-331-30"	On 960-311-30	ⁿ 75	,		
on	280-331-00#	near96°-31'-00	-125			
near	280-311-30*	on 96°-30'-00	-100			
on	280-311-00"	near960-291-30	·* - 58			
near	28°-28*-00**	on 96°-25'-00	-510),		as moved inshore
on	28°-28'-00"	near96°-25*-00	-4 50	5)	spit at e	e and forming a ntrance.
on	280-271-00"	near960-241-00	-165			
on	28°-26*-30**	near960-241-00)* -4 85			

2. Powderhorn Lake.

Latitude Longitude Change -160 Width of lake on 960-30' - 45 has increased 205 meters. North shore near 280-30'-30" on 96°-30' on 96°-301 South shore near 280-291-30"

3. General Comparison.

(1) Shape of Indian Point is different.

(2) Lake at Lat. 280-31'-23", Long. 960-31'-39" is now twice as large and long axis has changed in direction from NW-SE to W and E.

- (3) Entrance to Broad Bayou is different.
 (4) Lake at Lat.28 -27'-45", Long. 96°-25' has different shape and entrance has changed.
- (5) Greatest change in shoreline between Indianola Island and Port O'Connor where the shoreline has moved inshore from 50 meters to 500 meters.
- * Account taken of change of datum.
- + accumulation; recession.

FIELD IMSPECTION REPORT

for

MATAGORDA and ADJOINING BAYS

This report covers the territory adjoining Matagorda Bay, Lavaca Bay, Keller Bay, Cox Bay, Kerankawa Bay, Turtle Bay, Trespalacios Bay, and Oyster Lake. The following notes are submitted to act as a guide in the compilation of the sheets for this area including Matagorda Peninsula and that land which falls within the middle half of the wing prints, about four miles inland from the coast line. These are compiled by notes and sketches made by the field party and through a knowledge of this locality obtained by the field inspector in locating control on the aerial photographs, and establishing supplementary control points.

GENERAL DESCRIPTION OF TOPOGRAPHY

It is thought best to divide the field inspection report into several parts, each relating to that specific territory covered by a Photo-Topographic Sheet. This is done in order that each draftsman may more easily obtain that which has reference to his particular compilation. In most instances the draftsman assisted in the field inspection of the area covered by their compilation.

1.MATAGORDA PENINSULA

This narrow stretch of land separating Matagorda Bay from the Gulf of Mexico runs N.E. by East from Lat. 280-24; Long. 960-22; to Lat. 280-45; Long. 950-40; On the Matagorda Bay side the water is shallow and the lend usually marshy with frequent bayous cutting into the peninsula, sometimes extending to the Gulf of Mexico. Infrequently there are found narrow stretches of sand bordering Matagorda Bay and usually sand bars are "ound paralleling the shore and extending into the bay normal to the shore. With the exception of a few 15 foot salt cedar trees near the S.W. corner of Matagorda Peninsula, the vegatation consists uniformly of marsh grass, sand spots and small water spots. Beach grass is found on the sand dunes which parallel the peninsula on the Gulf side. 8-12 foot selt cedars are found in spots on the peninsula, usually near an inhabited or an abandoned dwelling. The high water line on the bay side is apparent on the photographs as just outside the line of marsh grass or by variation in coloring when the beach is sandy. Some difficulty is to be expected in the vicinity of bayou openings in the determination of mean high water line as sand bars show no definite line marked by the mean high water. In most instances the bars are under water when the tide is at me an high.

A characteristic of the beach along the Gulf side of the Matagorda Peninsula is the built up sand ridge which extends about 100 meters inland from the Gulf mean high water line. The sand dunes are found only on the Gulf side of the peninsula and are of maximum height (approximately 20 feet) in the southern half of Matagorda Peninsula and seem to get smaller about Long. 96°-02' (approximately 6 feet) and then die out about Longitude 96°-00'. There are slight

depressions inland on the Gulf side of the sand dumes. These depressions are sometimes filled with water from the wesh of high waves. The sand in the depressions usually shows darker on the photographs than the beach sand adjacent to the water although sometimes it becomes difficult to distinguish it on the photographs. It is to be noted that the beach slopes steeply between the mean high water and the low water line on the Gulf side of Matagorda Peninsula and the stage of the tide would have little influence on the interpretation of the mean high water line.

A local resident has stated that the strip of beach between the mean high water line at present and the foot of the sand dunes was built up by the storm of September, 1933 and that the old mean high water line was near the foot of the sand dunes. No verification for this information could be found except that the photographs in the vicinity of Long. 95°-56' seem to verify the location of the old mean high water line.

Marsh grass

Marsh grass

Marsh grass

Bright white sand beach

Marsh, grass

Sand spots

Sand Dunes, covered with light grass

Bright white again beach

The culture north of Powderhorn Lake consists of marsh, grass, and some cultivation in the interier. A few trees are found in this territory as well as some brush. A bluff about 7 feet high is found in the vicinity of Station BARGO and Gallinipper Point. In the vicinity of Indianola Island, Port O'Connor and Station BARGO the heaviest growth occurs. This consists of "trees" of mesquite and salt cedar,, the tallest not exceeding 25 feet (averaging 15 feet), and brush thickets of huisache, cat-claw, scrub oak, etc.

3. MATAGORDA BAY, North Coast, West of Palacios

This area includes the adjoining inland bays Keller, Karenkawa, Turtle and Trespalacios. The shore line west of Karankawa Bay is characterized by a sand beach and the mean high water line can be distinguished on the photographs by differentation in coloring of the sand. The sand under the rean high water line shows dark whereas the sand above this elevation shows up bright. East of Karankawa Bay the shore line is characterized by marsh grass and care must be exercised in determining the mean high water line due to the fact that some of the marsh grass is normally below the mean high water line. In the vicinity of Well Point is found a five foot receeding bluff covered with bushes. Farther inland in this vicinity is found cultivation. Dense growths of bushes line the shore south of Camp Hulen and in the vicinity of Station SMITH.

The mean high water line around Keller Bay and Karankawa Bay is not difficult to determine from the photographs. At the opening of Keller Bay and intermittently around Karankawa Bay are found low bluffs of three to six feet in height. Field inspection of these bluffs indicate that they are eroding due to wave action but there are no evident means of determining the rate of recession. In the vicinity of Turtle Bay and the N.W. side of Trespalacios Bay the shore line is characterized by dark marsh grass and it is easily identified on the photographs if sufficient care is exercised in noting certain small patches of marsh grass which show offshore from the mean high water line.

4. MATAGORDA BAY, East Coast, Collegeport to Palacios Point.

The shoreline in this vicinity is characterized by a six foot bluff which is in a state of recession due to erosion by high waves from Matagorda Bay. The mean high water line is easily identified on the photographs and the culture inland from the shore consists of rice, some in cultivation and some abandoned. There are no trees in the vicinity of the shore with the exception of two strips, each a mile long, in the vicinity of Portsmouth. These trees are 6-9 feet in height.

5. OYSTER LAKE

This is a shallow lake of $1\frac{1}{2}$ to $2\frac{1}{2}$ feet in depth. The entire shore surrounding this lake is marsh.

6. MATAGORDA BAY, North Shore, East of Palacios Point

The shore line in this vicinity is characterized by a sand beach in the southwestern part and marsh grass in the central and northeastern parts. The mean high water line in either case is readily determined on the photographs. Geveral reefs extend into the bay and shoal areas are found near the shore: dense growths of 6-12 foot brush are found close to and paralleling the beaches. Inshore from the brush growths are marshes and bayous. Irrigated rice fields and fields of abandoned cultivation are found a few miles in the interior. Irrigation canals, distribution laterals, etc., show up well on the photographs, Care should be exercised in differentiating between roads and canals. In many instances the canals are found paralleling the roads. Frequently, and especially in the N. E. section of that land adjacent to Matagorda Bay, marsh areas extend several miles inland. Beyond the marshes are found cultivated fields.

7. LAVACA BAY

This area includes the land in the vicinity of Lavaca Bay, north and west of Sand Point. With the exception of the land in the vicinity of creek and river inlets, which is low marsh, the shore line is marked by a steep bluff on the west side and a sloping bluff on the east side. The height of the bluff varies but is usually about 15 feet high. There is a marked berm between the bluff and the high water line on the north and east sides of Lavaca Bay.

In the vicinity of Station MITCHELL, on Pt. Comfort, there is a low marsh. In the vicinity of the east end of the causeway over Lavaca Bay a reef and a marsh area are found. Near Station GAR the shoreline is marsh but the station is on top of a 15 foot bluff which follows the shore line in back of the marsh area for a small distance. The mean high water line is not difficult to distinguish due to the delineation of the bluff and the marsh.

The culture of the vegatation on the east side of Lavaca Bay is pricipally grass and dense brush whereas on the west side cultivated fields predominate with intermittent areas of grass and marsh.

Care should be exercised in the office compilation of this territory west of Lavaca Bay to distinguish between canals, drainage ditches and roads. Westvof Station NOBLE canals parallel the roads in some instances.

The following information regarding rablroads is given for use in <u>Coast Pilot Notes</u>, corrections to charts, and for compiling photographs:

Port O'Connor: The railroad tracks have been taken up and only the abandoned three foot high bed remains.

Port Lavaca:

A railroad serves the town. In the town proper there is a double track. The second track is used as a siding only.

Palacios:

Gulf:

A railroad serves the town and a spur runs to Camp Hulen. In the town of Palacios double tracks for siding purposes are found. The railroad to Palacios and Camp Hulen is not shown on the present charts (#1284) but should be shown on the photo-topographic sheets.

Collegeport:
Railroad service to Collegeport has been abandoned.
There is no railroad shown on chart #1284 and care should be exercised not to show the abandoned roadway as a railroad.

Matagorda:

A railroad furnishes communication between Matagorda,
Bay City and Gulf and a spur runs from the town of
Matagorda to the river for the Culver Shell Dredging
Company. There is a siding, spur and a Y between the
Matagorda railway station and the Culver Shell Bredging Company.

A private railroad serves the Texas Gulf Sulphur Co. There are numerous switches and sidings around the sulphur plant. The private line joins with the Gulf, Colorado & Santa Fe R. R. at Gulf Hill, a railroad depot 25 miles N.W. of Gulf.

It should be noted that the principal part of the town of Collegeport is located about one mile east of the location shown on chart #1284; however, some of the residences of Collegeport are situated in the old location.

A city map of Palacios has been procured by the field inspection party as well as sketches of the Colorado River delta near Matagorda and the layout of the Texas Gulf Sulphur Co. Plant. These should be used only as aids in identifying approximatellocations of buildings, railroads, reservoirs, tanks, names of streets, etc., and not for accurate location of detail.

There are a number of small piers at Palacios extending into Trespalacios Bay as well as a pier at Camp Hulen. These do not show on chart #1284 but should appear on the photo-topographic sheets. Although there are no airway beacons at Camp Hulen, a wind sock and the nature of the camp indicates that it is sometimes used as a landing field. It is believed that the revised charts should show Camp Hulen.

CONTROL

Triangulation executed by the party of Lieut. E. O. Heaton in 1934 and Ens. T. M. Price Jr., 1934 and the first order 1931 triangulation by Lieut. F. L. Gallen form the principal control for the area covered in this report. Supplemental third order triangulation and throdolite three-point fixsware executed by the field inspection party together with occasional short traverse control. This supplemented the main control for the five lens photographs at occasional places where an additional point was needed to hold the radial line plot, and in numerous places on the single lens photographs of Matagorda Peninsula where sufficient control by triangulation was impractical. The location of these supplementary points was marked on the photographs and by only a temporary mark on the ground.

In the areas included in the intra-coastal canal survey by the U. S. Engineer Department, their stations were used as supplemental control as well as stations established by the Matagorda County Reclamation District. All previously established control that could be used, and which was not connected to the 1934 triangulation, was used by applying an adjustment for change to the 1927 datum.

The field inspection party also located on the ground and on the photographs points that could be used as hydrographic stations. The position of these points are to be determined by the photographic radial line plot except in the few cases in which the points coincide with three-point fix locations.

CHANGES IN MAPS AND PUBLICATIONS

The jetties south of Port O'Connor, shown on chart #1284 as 3/4 mile long, are in reality about 1/3 mile. Beacons are located at the extreme east end of the jetties while on the west end they are to be found east of the jetty extremities about seven meters. The pleasure pier on the side north of Port O'Connor has been destroyed and should not be shown on the chart. Some of the piles of this pleasure pier are still remaining and should be shown as such. The railroad leading into Port O'Connor has been taken up and should no longer be shown on the chart. Page 190 of the United States Coast Pilot, Gulf Coast, second line under heading "Port O'Connor" should be amended due to the abandonment of railroad communications. (See page /3 of this report regarding railroads)

The town of Saluria near the Coast Guard Station at McHenry Bayou is no longer in existence and should be removed from the chart. Page 49 of the Supplement to U. S. Coast Pilot, Gulf Coast, should be amended, deleting the two words "near Saluria" in the second paragraph under "Cedar Lakes".

The old Life Saving Station, located by 1906 triangulation, on Matagorda Island $1\frac{1}{2}$ miles N.E. of the Matagorda Lighthouse is still in existence and is now used only as a hunting and fishing lodge by the Randolph Field flyers of San Antonio, Texas.

There are no piers at Collegeport or at Portsmouth, and these should be taken off of the chart as well as those shown just north of Powderhorn Bayou at Indianola Island. The chart does not show the railroad to ralacios nor the spur running to Camp Hulen. These should be shown. The same notation is true of the town of Gulf.

There are no piers at Matagorda extending into Matagorda Bay. There is a small dock on the Colorado River at Matagorda. There is a narrow pier at Gulf which extends into Matagorda Bay. This should be shown on the revised topographical sheet.

The following changes in spelling are recommended:

Decros to Decrow (The point at the S.W. end of Matagorda Peninsula)

Kane to Kain (Houses located by previous Shipprian to Zipptian (triangulation)

The recommendation is based on the spelling as given in the records of the Tax Collector at Bay City, Texas.

The railroad tank at Port O'Connor is no longer in existence and hence should be removed from the chart as a landmark.

The building at the end of the destroyed pleasure pier is no longer in existence and should be removed from the chart as a landmark.

It is recommended that the spelling of Karankawa Bay be changed to Carancahua Bay to conform with the practice of the Texas State Highway Dept., the Galveston office of the U. S. Engineers, the Texas State map issued by the Dept. of the Interior and local practice.

The numerous differences in roads and buildings between the present coast charts and actual conditions is best explained and noted in the descriptive reports of the individual sheets which will be compiled to cover this locality.

(see additional notes Page 8)

COAST PILOT NOTES AND LIGHT LIST CORRECTIONS

A telephone line runs from Port O'Conmor to the Matagorda Light House via the Coast Guard House at McHenry Bayou. This telephone line is carried underground at Big Bayou crossing and at the intra-coastal canal crossing at Port O'Conmor.

There is no storm warning display tower at Port O'Connor. (See U. S. Goast Pilot, Gulf Coast, rage 190)

Port O'Connor Bn. #3 is only about O.3 mile from Port O'Connor Bn. #1 and should be more properly listed under "Matagorda Bay"

Reference is here made to page (6), "Changes in Maps & Publications" for those notations affecting Coast Pilot and Light List publications, and to page (5) for railroad communications.

There is a bridge over the Trespalacios River on the Palacios-Collegeport road which has a total length of 101.1 meters. A steel truss in the center is 100 feet long and the new clearance is 2 meters.

Notations regarding other bridges and transmission lines have been furnished by the U_{\bullet} S. Engineers and will be listed in the descriptive report of the sheet in which they occur.

About one mile S. E. of Gulf, Texas, off shore, there are 3 piles in the shape of a tripod with a cross-arm on top which mark the entrance to Gulf, Texas, from the N. E.

Additional notes in "Changes to Maps and Publications".

The point of land at Lat. 28°-40' and Long. 96°-35' is known as Cox Pt. The name of Cox Pt. in the vicinity of Station High Point U. S. E. should be changed to Rhodes Pt. The changes are recommended to conform with local practice.

Form 567

Rev. Jan. 1933

DIVISION O		. –		•
chart	Letter	282	(1935)	

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

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		1	1		1	1		V B. Benson

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the

Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their intervals can be clearly charted. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. permanent to chart. U.S. GOVERNMENT PRINTING OFFICE: 1994 25379

Form 567 Rev. Jan. 1933 DIVISION OF CHARTS, FILE No. . Chart Lotter 282(1935)

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

		 -	- Corpus	Christi,	Texes		
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The following determined description given below, and shoet	ned objects	are promine	ent, can b	e readily di	istinguisl	hed from s	eaward from the
Fiold No. 1 Reg. No. 5351					H. Pri	ce, Jr.	Chief of Party.
			POSITION			<u> </u>	
DESCRIPTION	LA	TITUDE	LONG	ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
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<u> </u>							21 Mark Crook

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The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart,

U.S. GOVERNMENT DESCRIPTION OFFICE: 1914 25379

GEOGRAPHIC NAMES

Date May 27, 1935

TEXAS

Survey No

Chart No. 1284

Diagram No.

Approved by the Division of Geographic Names, Department of Interior. *\foatsigma \text{Referred to the Division of Geographic Names, Department of Interior. R Under investigation. Q

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REVIEW OF AIR PHOTO COMPILATION T-5351.

Scale 1:20,000.

Comparison with Contemporary Topographic Surveys.

There are no contemporary topographic surveys in this area.

Comparison with Graphic Control Surveys.

There are no graphic control surveys in this area.

Comparison with Previous Topographic Surveys.

(a) T-752 (1859) Scale 1:20,000.

T-752 covers the area around Indianola and the northerly shore of Powderhorn Lake.

T-752 shows a settlement and numerous houses at Indianola. This settlement has practically disappeared.

The piers are discussed on page 7 of the Field Inspection Report. The shoreline of Powderhorn Lake has changed considerably.

T-752 shows a line of hachures around the edge of the upland. This survey shows the edge of the upland by a line of dots. Except for the hachures, T-5351 is adequate to supersede T-752 in all respects.

(b) T-644 (1857) Scale 1:20,000.

T-644 covers the area from Powderhorn Lake south.

There is a recession of about 250 meters in the shoreline off Broad Bayou and one of about 40 meters at triangulation station Bargo, 1934.

The bayous along shore are generally larger, the entrance to Boggy Bayou now being much larger.

Hachures are shown on T-644 around Huckleberry, Big Dam, Broad and Boggy Bayous, which are not shown on this survey.

(c) <u>T-645 (1857-58) Scale 1:20,000</u>.

T-645 covers the area from Powderhorn Lake north.

The shoreline at Blind Bayou has built out about sixty (60) meters. Indian Point has built out to the northward about 90 meters. The pends in this area have increased in size.

T-5351 1 2

T-645 shows hachures along the edge of the upland and a bluff from Gallinipper Point to Indian Point.
T-5351 shows the bluff but the edge of the upland is shown by a line of dots.

Except for these hachures, T-5351 is adequate to supersede T-645 in all respects.

Comparison with Contemporary Hydrographic Surveys.

(a) H-5857 (1935) Scale 1:20,000.

H-5857 covers the northern part of Matagorda Bay and Lavaca Bay.

There are numerous piles and stakes shown on H-5857 that have not been shown on T-5351. H-5857 had not been verified at this time so these were not transferred.

There is no conflict with H-5857.

(b) The hydrographic survey for the southern section of of this survey has not yet been received. See next page.

Comparison with Chart No. 1284.

For a detailed comparison with Chart 1284 see the Descriptive Report for this survey. The beacon and wreck at latitude 28° 31.3', longitude 96° 28.4' is not shown on this survey. It will probably be located on the hydrographic sheet of this area.

Landmarks.

There are no charted landmarks in this area and there are none recommended for charting guilt in about the automath lank.

T-5351 -3

A better estimate would be 0.3 to 0.5 m.m. for intersected points and 0.3 to 0.8 m.m. for other data.

There are two recoverable topographic stations described on Form 524 and filed under T-5351.

August 29, 1935.

H. L. Hawkins.

Frank & Enfine

Companion with H.5866(1935) 1:20,000

There are no conflict with the hydrog raphy.

H.5866 shows a wreck at 28°31', 96°283' and a wreck and a concrete object" at 28:31', 96°29! These dangers have not been transfured to T.5351.

A.G.E.

REVIEW OF AIR PHOTO COMPILATION NO. 5351

Chief of Party: T. M. Price Jr.

Compiled by: J. R. Roynolds

Project: Party #20, Corpus Christi, Tex. Instructions dated: Nov.7, 1935

- 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
- -2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)

No such surveys were required for this sheet

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)

None submitted

- 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.

 Comparison with hydrographic surveys made a gainst incompleted boot sheet only.
- 6: The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- 7. High water line on marshy and mangreve coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. The representation of low water lines, reefs, coral reefs and reeks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Shoal areas indicated by low water symbol as described in descriptive report, and is not representative of the actual low water line.

- 9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

 Recoverable objects were completed on form 524 Ed. Dec.1929

 before receiving May 1934 forms. Only a part of the recoverable hydros stations were described in order to space them.
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- 11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S.G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

No U.S.G.S. Quadrangles available for this area.

- 13. The geographic datum of the compilation is N.A. 1927 and the reference station is correctly noted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight.
- 6. All drawing has been retouched where partially rubbed off.
- 7. Buildings are drawn with clear straight lines and Square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks:

18. Examined and approved;

T. M. Price Jr.
Chief of Party

19. Remarks after review in office:

Netail from the southern and of this complation was

hoursfrue to T-5045 giving about a mile variet on the two survey a

Caragraphic in this refer tion certains attail in the vicinity of Bot O'Sommer

apply also to T-5045.

Reviewed in office by:

Raul G. Ershine

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

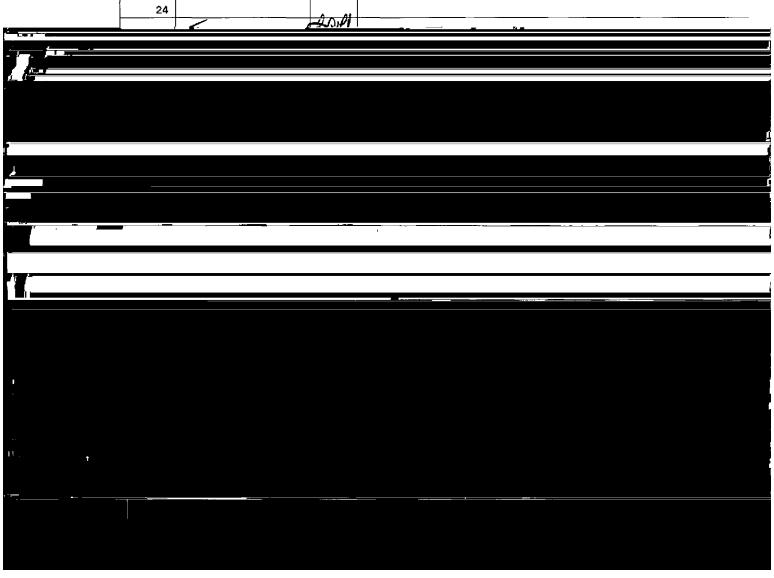
Chief, Division of Hydrography and Topography.

MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	No. H No. T-5351	$\left. \left. \right \right.$	received registered verified reviewed approved
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This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

	 Attention called to	
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NAUTICAL CHARTS BRANCH

SURVEY	NO.	

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-31-61	889	H.Keeler	-Before After Verification and Review
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

M-2168-1

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