

Graphic Control

4562

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE U. S. COAST & GEODETIC SURVEY  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: Florida

**DESCRIPTIVE REPORT**

Topographic ~~Hydrographic~~ Sheet No. C 4562

LOCALITY

East Coast of Florida

Biscayne Bay

Card and Barnes Sounds

1930

CHIEF OF PARTY

Charles Shaw

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

JAN 22 1931

Acc. No. \_\_\_\_\_

Graphic Control

Applied to chart 848 Nov. 30, 1936 J.M.C.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4562

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 Letter C

REGISTER NO. 4562

State Florida

General locality East Coast of Florida

Locality Biscayne Bay, Card Sound and Bannea Sounds

Scale 1:20,000 Date of survey Nov. 27th to Dec. 9th, 1930, 19

Vessel RANGER

Chief of Party Charles Shaw

Surveyed by W. M. Gibson

Inked by W. M. Gibson

Heights in feet above - to ground to tops of trees

Contour Approximate contour Form line interval - feet

Instructions dated July 15, 1930 and Letter Sept. 19, 1930 ref. 10-RWS19

Remarks: None

# Graphic Control

## DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "C"

(unfinished)

Florida Keys, November--December 1930

Ship RANGER, Charles Shaw, Commanding

### AUTHORITY:

Director's orders dated July 15, 1930 and letter dated September 19, 1930 reference 10-RWS.

### CONTROL:

Second, third and fourth order triangulation stations established in 1930.  $\Delta$  Man was the only triangulation station used which had no check on its position. Planetable cuts at this station showed no discrepancies.

### LIMITS:

Sheet C extends from Rubicon Key and Turkey Point, to the south end of Barnes Sound. However only a small amount of work was done near the north end of the sheet due to closing of the field season.

### PURPOSE:

1. Furnish shoreline near triangulation stations to facilitate plotting on the aerial photographs.
2. Provide planetable location of signals for hydrography.

### JUNCTIONS:

Sheet "C" joins with Topographic Sheet "B" at  $\Delta$  Turkey Point 2 and with Topographic Sheet "A" near signal "Bes" on the east shore.

### SURVEY METHOD:

Along the east shore and around the Arsenicker Keys the bottom consists of several feet of soft mud covered by a thin matting of grass and coral growth. This condition extended to the edge of the mangrove. Also on account of continual northerly winds there was always several feet of water at the edge of the mangrove.

On this account it was almost impossible to set the planetable up even at the triangulation stations. It was necessary to search for a spot on a line between two stations, resect from two or more others and then cut in the small signals.

The only traverse on the sheet was from  $\Delta$  Turkey Point 2 to  $\Delta$  Man; 3 miles; 16 meters error of closure. Error of closure was adjusted proportionally.

MAGNETIC MERIDIAN:

Magnetic Meridian was drawn on the sheet at  $\Delta$  Wet on December 5. It has since been learned that a magnetic storm occurred on December 5. Magnetic variation was observed at  $\Delta$  Pal with a Declinometer on a later date.

LIST OF SIGNALS:

See attached sheet. This list is included for future hydrographic work.

January 12, 1931.

*Wm Gibson*  
W. M. Gibson, Topographer.  
Jr. H. & G. Engineer,  
C. & G. Survey.

Altho the regulations are not to ink incomplete sheets it was thought best to ink this small amount of field work accomplished on this sheet to aid the aerial photo reductions.

January 20, 1931.

*Charles Shaw*  
Charles Shaw,  
Commanding Ship RANGER.

LIST OF PLANE TABLE POSITIONS

Topographic Sheet "C"

Signal	Lat. & Long.		Seconds in meters		Remarks
			Forward	Back	
Cat	25	26	249		Cloth banner on mangrove tree
	80	19	521		
Mik	25	26	20		White dead stump
	80	19	543		
Cow	25	25	1762	84	Square white banner in tree on point
	80	19	515		
Kaf	25	25	1654	192	Small tree growing in water slightly detached.
	80	19	878		
Moo	25	25	1510		Cloth banner in tree
	80	19	1120		
Pig	25	25	856		White banner in tree
	80	19	999	678	
Sax	25	25	448		White banner on tripod
	80	19	1018	659	
Pod	25	25	225		Large white tripod
	80	19	940	736	
Lem	25	24	1644	202	Cloth banner on dead tree
	80	19	1064	613	
Cad	25	24	1356	490	Cloth banner on tree
	80	19	980	697	
Bur	25	24	1043	803	Cloth banner on tree
	80	19	868	809	
Mor	25	24	646	1200	Large cloth banner on tree
	80	18	382	1295	
Her	25	24	574	1272	Small banner on detached mangrove tree
	80	17	1663	14	
Som	25	24	327	1519	White banner on point
	80	18	188	1488	
Pin	25	24	265	1581	Tallest of 2 tallest Australian Pines leaning toward north.
	80	19	1113	564	
Fan	25	24	91	1755	Small slender fan top tree on point
	80	19	1014	663	
Nor	25	23	1440	408	Cloth banner on large mangrove growing in water.
	80	19	1074	603	
Aim	25	23	934	912	White banner.
	80	19	452	1225	
She	25	23	605	1241	White banner.
	80	19	12	1665	
Her	25	23	756	1090	White tripod painted slats
	80	18	865	812	
Div	25	23	236	1610	White banner
	80	18	600	1077	
Ort	25	23	222	1624	White tripod with slats
	80	17	1066	611	
You	25	23	1313	533	White banner on mangrove tree.
	80	17	393	1284	

See Addenda  
 Rev. of H-5535  
 (A35)  
 H.W.M. 10/20/36

Signals	Lat. & Long.		Seconds in meters		Remarks
Dane	25	23	1599	247	White banner on mangrove tree
	80	17	259	1418	
Sen	25	22	1116	730	do do do do do
	80	18	1006	671	
Gol	25	22	1073	772	do do do do do
	80	17	1389	288	
See	25	22	871	975	do do do do do
	80	17	452	1225	
Bes	25	22	1063	783	do do do do do
	80	15	597	1080	
Awe	25	22	781	1065	do do do do do
	80	15	652	1025	
Ful	25	22	52	1794	do do do do do
	80	15	452	1225	
Leg	25	21	1578	268	do do do do do
	80	15	863	815	
Dep	25	21	982	864	do do do do do
	80	15	900	778	
Adex	25	21	142	1704	White slats on tripod built over U.S.E.D. triang. station.
	80	15	1027	650	
Bro	25	21	192	1654	White banner on mangrove tree
	80	16	132	1546	
Bn. PS	25	22	1385	463	Large black pile with 6 ft. square white daymark.
	80	16	521	1157	
Bn. 9*	25	22	960	888	Leaning black pile with small white pointer
	80	16	817	861	
Bn. 11*	25	22	660	1186	Leaning black pile with small white pointer.
	80	16	1028	650	
Bn. 8*	25	22	682	1184	Straight black pile with white pointer.
	80	16	1068	610	
Bn. 10*	25	22	533	1313	Short leaning pile with white pointer.
	80	16	1160	517	
Bn. 13*	25	22	488	1358	Tall black pile with white pointer
	80	16	1141	536	
Bn. 12*	25	22	245	1601	Very small square red pile with pointer
	80	16	1430	247	
Bn. 15*	25	22	184	1662	Leaning black pile with square white daymark.
	80	16	1357	321	

See Addenda.  
Rev. of H-5535  
(1935)  
H.W.M. 1/24/36

\*All beacons numbered as shown.

By WMG  
- CRR  
Copy to W.M.G.