Diag. Cht. No. 4705

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. TU-C-50 Office No. T-7080

LOCALITY

State Philippines

General locality West Coast of Luzon

Locality Subic Bay

194 50

CHIEF OF PARTY

WILBUR R. PORTER

LIBRARY & ARCHIVES

DATE JUNE 5, 1950

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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.TU-C-50

REGISTER NO.

State Philippines	
General locality West Coast of Luzon	
Locality Subic Bay	
Scale 1:10,000 Date of survey 14 March 1950	
Vessel TULIP	
Chief of partyWILBUR R. PORTER, Comdr., USCAGS	
Surveyed by Ens. F. L. Corton	
Inked by Ens. F. L. Corton, A. G. Jardiolin, A. del	Roserio
Heights in feet aboveto ground to tops of trees	
Contour, Approximate contour, Form line intervalfeet	
Instructions dated CS-7 1 Merch 19 50	
Remarks:	
······	

COLBINED DESCRIPTIVE REFCRES

To Accompany

TOPOGRAPHIC SHEETS TU-A-50, TU-B-50 and TU-C-50

USCACS SEIP TULIP

W. R. PORTER, Cond's

A. AUTHORITY:

Project instructions, Project CS-7 (US) dated 1 March 1950 from the Director of Const Surveys, Manila Field Station addressed to the Commanding Officer, Ship TULIP.

B. FURFOSE:

- 1. To delineste by topography the shoreline around Subic Bay Zambeles, from Cubi Foint up to Macmany Point covering all around the east, north end west sides of Subio Bay.
- 2. To locate stations for hydrographic controls by graphic method.
- 3. To revise topographic features along the shoreline covered.

C. SURVEY LIMITS AND DATES:

Sheet No. TU-A-50 covers all the shoreline extending eround the northern part of Subic Eay from Lat. 14° 51.04'N; Long.
120° 15.00'E including shorelines around Pequena and Mayanga
Islands down to Lat. 14° 49.5'N; Long. 120° 12.6'E. Sheet
No. TU-B-50 covers all the shoreline around the east side of
Port Olongapo from Lat. 14° 51.04'N; Long. 120° 15.00'E down
to Cubi Point. Sheet No. TU-C-50 covers the shoreline of the
western part of Subic Bay from Lat. 14° 49.5'N; Long. 120°
12.6'E down to Lat. 14° 46.5'N; Long. 120° 11.7'B. Date of
survey was from 14 March 1950 to 18 April 1950. Work was not
continuous on topography inexamen as signal building was done
signitaneously with this work.

D. COMTROL:

The following triangulation stations were used:

Sheet TU-A-50

1.	CAVIOZA	1947
2.	H. S. D.	1947
3.	PEQ	1947
4.	CABARGAR	1947
5.	CAYUAG	1947
6.	MARA	1947
7.	MAYANGA LT.	1947
8.	SUB	1917

Sheet TU-B-50

1.	H.G.D.		1947	7.	LINGDA			1947
2.	Kalaklan	LT.	1947	8.	COAL			1947
	MARKE		1947	9.	MADITAL POINT	CATER	TAIR	
	CHAPEL		1947	10.	NAGCARAN			1947
	MAVY		1947	11.	Cathan			1947
	COL		1947	12.	CUBI 2			1947
				13.	GAVIOTA			1947

Sheet TU-C-50

1.	MAYAGGA	LT.	1947	3.	Graeds	LT.	HO.	1947
2.	AGGS OIL	LT.	1947	4.	MACMANY			1908

F. MATRICES ENTRY

The following instruments were used in this survey; 21 x 31" plane table with tripod and head, USC&GS slidades No. 135 and No. 28993 and their corresponding sets of rods graduated for each particular instruments. Alidade No. 133 was used only at sheet No. TU-B-50 in the location of signals and in all other work No. 28993 was used.

P. GURVEY METHODS:

The survey was executed in accordance with stendard Coast Survey methods. Graphic triangulation method was employed in locating signals for hydrographic control. At times when no triangulation stations could be occupied three point set ups were made. In every three point set ups checks were always made to all visible established and located signals.

G. COMPARISON VITTH OLD CURVEY:

There was no old survey sheet at hand. The shoreline from Anchorage Chart BO had been pantographed to the topographic cheets. In many places shoreline did not agree and the discrepancies were as such as 100 meters.

The following places were found to have considerable discrepancies in shoreline.

Obest TU-A-50

- 1. The shoreline between Cayuag Foint and Cabangan Point.
- 2. Menisbaso Point.
- 3. Petambu Point.

Sheet 30-B-50

1. The shoreline in the bight between Negosban Point and Mancha Blance Cliff.

- 2. The location of the mouth of Boton River. Information from three old natives reveals that any change in the location of the river outlet must have been made before the last twenty years.
 - 3. The southern mouth of Helaklan River.
 - 4. The cree in the vicinity of Signels Gig end Hop.

Sheet 70-0-50

- 1. Shoreline between Cox and Yez.
- 2. Shoreline south of Agosoen Lt.

E. CINEAL DECRIPTION OF THE COAST:

Generally all points elong the coastline are rocky. The coast elong Subic town is sandy. At nearby station Off the coast is sandy but fouled with wrecks. At between stations New and Ice it is sandy but detached rocks are found in the vicinity of Signel Ice.

In the boy east of N.S.D. 1947 the coast is sandy but the northwestern part is fouled with wreaks. The small bey where signal Sis is located is sandy and free of obstructions except for the two besched LCT's. From here up to Kaleklan Lt. it is rocky and dangerous even for small launches to go nearby the shore. In the northern part of the bay inside Fort Glongapo north of Signal Ann is a sud flat that uncovers at low water. The Coaling wherf where triangulation station Coal, 1967 is located had been damaged during World War 2. The super-structure had been burned and some floor beys bleated. The erse between Coal and Manche blanca cliff (at signal Wit) is Sandy. At signal Pro where Banican village is located shore is sandy.

1. LIST OF PLANE WATER PROPERTY.

Inclosed are lists of Plane Table Positions, Sheet TU-A-50, TU-B-50 and TU-C-50.

J. BELDINES:

Junctions between the three sheets were good and no adjustment was done in any of them. In all traverses there was no discrepancy that went beyond the limits ellowed in the topographic manual and no adjustment was made in the location of any topographic feature located by this mathod. All signals were located by intersections of not less than three rays except for signal Bio in sheet Bo. TU-A-50 that was located by two rays and stadia distance from the nearest set up to it.

k. Statistion:

Number	of top	er:	rhic r	eccve:	reble s	tetion-	-	-	•	-	0
Dunber	of unr	8001	rereble	topo	graphio	station	18	-	•	-	95
Statute	miles	of	low wa	ter 1	ine	•					
Statute	miles	of	high w	ster 1	line	-	-	•	-	***	28.8
Otatute	miles	of	roads			•	•	-	-	-	0.8

Respectfully submitted:

/s/ FILOREDO L. COUTON

Inc.:

- 1. List of Plane Table Positions.
- 2. List of Objects Located.

APPROVED AND POSTARDED:

/s/ Wilbur R. Pertur Condr., WHORES Comes. Chip Tulip

LIST OF PLANE TABLE POSITIONS SHEET TU-G-50 CS-7 (U.S.)

names	NORTH LATITUDE	D.M. (Meters)	EAST LONGIT		D.P. (Meters)	Remarks
Rip	14 49'	(1340.8) 503.2		12 ((727.8) 1066.2	Banner on tree trunk.
Lay	14° 48'	: (75.1) : 1768.9		12 :	(522.6) 1271.6	Banner on outboard end of deteriorated pier.
Pit	14° 48'	(241.5) 1602.5			• • •	Taller of two masts of two beached ships.
Big	177 ₀ 78,	: (470.3): : 1373.7:				Banner at outboard end of deteriorated pier.
Geo :	14° 48'	: (663.8): : 1180.2:				White wash on beached craft.
Fez :	14° 48'	: (883.4) : 960.6			(1.065.8) 728.4	White wash on rock.
Cox	140 481	: (1280.2) : 563.8			(1131.6) 662.6	White wash on rock.
Son	14° 48'	: (1786.0): : 58.0			(1454.9) 339.3	White wash on rock.
Del.	14° 47'	: (236.9) : 1607.1				Banner on top of mast of beached ship.
Wad		(453.5) 1390.5			(1793.0): 1.3	Banner on tree trunk.
Get	14° 47'	: (846.3) : 997.7	120°		(1768.1) : 26.2 :	White wash on rock.
Via :	14° 47'	: (1471.8): : 372.2:		11'	(98.1) 1696.2 *	White wash on rock.
Ama :	14° 46'	: (247.8): : 1596.2 *	120°	11' :	: (125.9): 1668.6 *	Banner on mast of LST.
Oak	14° 461	: (738.9): : 1105.1 *	120°	11'	(94.8): 1699.7*	White wash on wreck.
Ego :	14° 46'	: (1068.8): : 775.2 *	120°	11':	_	White wash on rock.

^{*} Deduced

LIST OF OBJECTS LOCATED SHEET TU-C-50, CS-7 (U.S.)

NORTH LATITUDE	D. M. (Meters)	EAST LONGITUDE	D. P. : (Meters) :	REMARKS
14° 47'	: (81.7) : 1762.3	120° 12'	(1 <i>6</i> 92.6) : 101.7 :	Beached pontoon

Tabulated by: F. L. C.

Checked by: A. G. J.

•	Survey No. T-708		chor.	greviou.	1. Noda	Con Rolling	Or Ded Med	Guide	Mad Action of the Control of the Con	N.S. J.Br.	/ /
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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

TOPOGRAPHIC

Field No. TU-C-50

LOCALITY

State Philippines

General locality West Coast of Luzon

Locality Subic Bay

CHIEF OF PARTY

WILBUR R. FORTER

LIBRARY & ARCHIVES

DATE JUNE 5, 1950

B-1870-1 (1

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.TU-C-50

REGISTER NO.

State Philippines .
General locality West Coast of Luzon
Locality Subic Bay
Scale 1:10,000 Date of survey 14 March 1950
Vessel TULIP
Chief of party WILBUR R. PORTER, Comdr., USC&GS
Surveyed by Ens. F. L. Corton
Inked by Ens. F. L. Corton, A. G. Jardiolin, A. del Roserio
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated CS-7 1 March , 19 50
Remarks:
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COLEINED DESCRIPTIVE REPORTS

To Accompany

TOPOGRAPHIC SHIETS TU-A-50, TU-B-50 and TU-C-50

USCACS SHIP TULIP

W. R. FORTER, Cond's

A. AUTHORITY:

Project instructions, Project CS-7 (US) dated 1 March 1950 from the Director of Coast Surveys, Manile Field Station addressed to the Commanding Officer, Ship TULIP.

B. PURPOSE:

- 1. To delineate by topography the shoreline around Subic Bay Zambales, from Cubi Point up to Macmany Point covering all around the east, north and west sides of Subic Bay.
- 2. To locate stations for hydrographic controls by graphic method.
- 3. To revise topographic features along the shoreline covered.

C. SURVEY LIMITS AND DATES:

Sheet No. TU-A-50 covers all the shoreline extending eround the northern part of Subic Ray from Lat. 14° 51.04'N; Long. 120° 15.00'B including shorelines around Pequene and Mayanga Islands down to Lat. 14° 49.3'N; Long. 120° 12.6'E. Sheet No. TU-B-50 covers all the shoreline around the east side of Port Olongapo from Lat. 14° 51.04'N; Long. 120° 15.00'E down to Cubi Point. Sheet No. TU-C-50 covers the shoreline of the western part of Subic Bay from Lat. 14° 49.5'N; Long. 120° 12.6'E down to Lat. 14° 46.3'N; Long. 120° 11.7'E. Date of survey was from 14 March 1950 to 18 April 1950. Sork was not continuous on topography inasmuch as signal building was done siguitaneously with this work.

D. CONTROL:

The following triangulation stations were used:

Sheet TU-A-50

1.	GAVIOTA	1947
2.	N. S. D.	1947
3.	PBQ	1947
4.	CABANGAN	1947
5.	CAYUAO	1947
6.	MAHA	1947
7.	MAYARGA LT.	1947
# .	SIIR	1017

Sheet TU-B-50

	H.S.D.	t m	1947	7.	MAGDA COAL			1947
4	Kalaklau	L.Y.	TA6	8.				1947
3.	MARINE		1947	9•	Maritan Point	TATER	TALIK	1947
4.	CEAPEL		1947	10.	MACCABALI	•		1947
5.	MAVY		1947	11.	CA IMAM			1947
6.	COII		1947	12.	CUBI 2			1947
			*	13.	GAVIOTA			1947

Sheet TU-C-50

1. MAY	WICA LT.	1947	·	3.	GRANDE	LT.	HO.	1947
2. AG06	SOIN LT.	1947	•	4.	MACMANY	•		1908

E. INSTRUMENTAL

The following instruments were used in this survey; 24 x 31° plans table with tripod and head, USCAGS alidades No. 133 and No. 28993 and their cooresponding sets of rods graduated for each particular instruments. Alidade No. 133 was used only at sheet No. TU-B-50 in the location of signals and in all other work No. 28993 was used.

F. SURVEY METEODS:

The survey was executed in accordance with standard Coast Gurvey methods. Graphic triangulation method was employed in locating signals for hydrographic control. At times when no triangulation stations could be occupied three point set ups were made. In every three point set ups checks were always made to all visible established and located signals.

G. COMPARISON DIES OLD SURVEY:

There was no old survey sheet at hend. The shoreline from Anchorage Chart 30 had been pentographed to the topographic sheets. In many places shoreline did not agree and the discrepancies were as much as 100 meters:

The following places were found to have considerable discrepencies in shoreline.

Sheet TV-A-50

- 1. The shoreline between Coyung Point and Cabangan Point.
- 2. Menisbaso Point.
- 5. Petembu Point.

Sheet W-B-50

1. The shoreline in the bight between Nagosban Point and Mancha Blance Cliff.

- 2. The location of the mouth of Roton River. Information from three old natives reveals that any change in the location of the river outlet must have been made before the last twenty years.
 - 3. The southern mouth of Kalakian River.
 - 5. The area in the vicinity of Bignels Gig and Mop.

Chest TU-C-50

- 1. Shoreline between Cox and Fez.
- 2. Shoreline south of Agoscen Lt.

H. GINTERAL DESCRIPTION OF THE COAST:

Generally all points along the coastline are rocky. The coast along Subic town is sandy. At nearby station Off the coast is sandy but fouled with wrecks. At between stations New and les it is sandy but detached rocks are found in the wicinity of Signal Ice.

In the bay cast of N.S.D. 1947 the coast is sandy but the northwestern part is fouled with wrocks. The small bay where signal Sis is located is sandy and free of obstructions except for the two besched ICT's. From here up to Kaleklan Lt. it is rocky and dangerous even for small launches to go nearby the shore. In the northern part of the bay inside Fort Olongapo north of Signal Ann is a sud flat that uncovers at low water. The Coaling wherf where triangulation station Coal, 1947 is located had been damaged during World Wer 2. The super-structure had been burned and some floor bays blasted. The eres between Coal and Manche blanca cliff (at signal Wit) is dandy. At signal Pro where Banican village is located shore is sandy.

I. LIFT OF PLANE TABLE POSITIONS:

Inclosed are lists of Plane Table Positions, Sheet TU-A-50, TU-B-50 and TU-C-50.

J. REMIKS:

Junctions between the three sheets were good and no adjustment was done in any of them. In all traverses there was no discrepancy that went beyond the limits allowed in the topographic manual and no adjustment was made in the location of any topographic feature located by this method. All signals were located by intersections of not less than three rays except for signal Bio in sheet Ho. TU-A-50 that was located by two rays and stedia distance from the nearest set up to it.

K. STATISTICS:

Dumber	of topo	OST(phic recov	erable s	tation	-	-	-	0
Sumber	of unre	8001	rerable top	ographio	stations	5	-	-	95
Statute	miles	of	low water	line					26.5
Statute	miles	of	high water	line					28.8
Otatute	miles	of	roads	- -					0.8

Respectfully submitted:

/s/ FILCHERO L. CORTON Ens., C & G @

Inc.:

- List of Plane Table Positions.
 List of Objects Located.

APPROVED AND FORTARDED:

/e/ VILLUR R. PORTER Condr., USCASS Conds. Ship TULIP

LIST OF PLANE TABLE POSITIONS SHEET TU-C-50 CS-7 (U.S.)

· MODOUT	· D.W · FACO	- D D	
		• - • - •	
: :14° 49'	: :(1340.8):120° 12' : 503.2 :	: (727.8): Banner on tree trunk. : 1066.2:	
: 14° 48' :	: (75.1):120° 12' :1768.9 :	: : (522.6):Banner on outboard end o : 1271.6 : deteriorated pier.	r
140 481		: (638.6):Taller of two masts of t : 1155.6 : beached ships.	wc
14° 481	: (470.3):120° 12' : 1373.7 :	: (807.6):Banner at outboard end o : 986.6 : deteriorated pier.	f
14° 48'	: (663.8):120° 12' : 1180.2 :	: (953.0):White wash on beached : 841.2 : craft.	_
:14° 48'			
:14° 48'	: (1280.2):120° 12' : 563.8 :	:(1131.6): White wash on rock. : 662.6:	
: :14° 48'	: :(1786.0):120° 12' : 58.0 :	: (1454.9): White wash on rock. : 339.3:	_
: :14° 47' :	: (236.9):120° 12' : 1607.1 :	: :(1780.7):Banner on top of mast of : 13.6 : beached ship.	_
: :14° 47'	(453.5):120° 12' : 1390.5		_
: :14° 47' :	(846.3):120° 12' 997.7	(1768.1): White wash on rock. 26.2:	
: :14° 47' :	(1471.8):120° 11' 372.2:	: (98.1): White wash on rock.: 1696.2*:	
:14° 46'	(247.8):120° 11' 1596.2*:	: (125.9): Banner on mast of LST. 1668.6*:	_
140 46!	(738.9):120° 11' : 1105.1*:	: (94.8): White wash on wreck. 1699.7*:	_
:14° 46°	1068.8):120° 11' : 775.2*:	(262.1): White wash on rock. 1532.4*:	-
	14° 48' 14° 48' 14° 48' 14° 48' 14° 48' 14° 47' 14° 47' 14° 47' 14° 46'	S:LATITUDE: (Meters): LONGITUDE :14° 49' : (1340.8):120° 12' : 503.2 :14° 48' : (75.1):120° 12' : 1602.5 :14° 48' : (470.3):120° 12' : 1373.7 :14° 48' : (663.8):120° 12' : 1180.2 :14° 48' : (1280.2):120° 12' : 960.6 :14° 48' : (1280.2):120° 12' : 563.8 :14° 48' : (1280.2):120° 12' : 58.0 :14° 47' : (236.9):120° 12' : 1607.1 :14° 47' : (453.5):120° 12' : 1390.5 :14° 47' : (846.3):120° 12' : 997.7 :14° 47' : (1471.8):120° 11' : 372.2 :14° 46' : (738.9):120° 11' : 1596.2* :14° 46' : (1068.8):120° 11' : 1105.1*	S:LATITUDE: (Meters): LONGITUDE: (Meters): R e m a r k s 114° 49' : (1340.8): 120° 12' : (727.8): Banner on tree trunk. 503.2: 1066.2: 1066.2: 114° 48' : (75.1): 120° 12' : (522.6): Banner on outboard end control in the second of the sec

^{*} Deduced

Scaled & tabulated by: A.R. Checked by: A.G.J.

LIST OF OBJECTS LOCATED SHEET TU-C-50, CS-7 (U.S.)

NORTH	LATITUD	D.M.: DE:(Meters):	AST LONGI	: D.P. TUDE:(Meters)	REMA	RKS -
14°	47 '	(81.7): : 1762.3	120° 12	(1692.6) 101.7	Beached	pontoon

Tabulated by: F. L. C. Checked by: A. G. J.

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