



U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Surve	Planimetric
	Office No. T-13417
	LOCALITY
StateUni	ted States Possession
General localit	y Pacific Ocean
Locality Wa	ke Island Boat Basin
-	1964 * see below
ă.	CHIEF OF PARTY

	LIBRARY & ARCHIVES
DATE	

USCOMM-DC 508

* 1968-1970 (Refer to page 6)

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I	ESSA FORM 76-360 U.S. DEPARTMENT OF COMMERCE (2-70) ENVIRONMENTAL SCIENCE SERVICES ADMIN. COAST AND GEODETIC SURVEY	TYPE OF SURVEY	
	DECONSTINE DEPOSIT DATA DECOND	TORIGINAL	SURVEY 7 . 13417
	DESCRIPTIVE REPORT - DATA RECORD	REVISED-	JOB РН. 7009
	PHOTOGRAMMETRIC OFFICE	FOR REVISED	SURVEY USE ONLY
j			
1	Rockville, Maryland	ORIGINAL	JOB PH
	OFFICER-IN-CHARGE	SURVEY DATA:	DATES:
- 1	Richard H. Houlder		19TO 19
,	I. INSTRUCTIONS DATED		
	I. OFFICE	2.	FIELD
	June 4, 1970	None	
į	II. DATUMS		
	•	OTHER (Specify)	
{	I. HORIZONTAL: 1927 NORTH AMERICAN	Astro 1952	
	X MEAN HIGH-WATER	OTHER (Specify)	
	2. VERTICAL: MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	None	
	3. MAP PROJECTION	·	GRID(S)
		STATE	ZONE
4 .	Mercator	None	None
_ (5. \$CALE	STATE	ZONE
´ ,	1:3,500	None	L None
<u> </u>	III. HISTORY OF OFFICE OPERATIONS	<u> </u>	
ŀ	OPERATIONS 1. AEROTRIANGULATION Imapolicable	NAME NAME	DATE
	1. AEROTRIANGULATION MAPPILLADIC BY METHOD: C-8 Stereoplanigrapharks and aids by	J. D. Perrow.	14. 6/22/73
}	2. CONTROL AND BRIDGE POINTS PLOTTED BY	P. J. Dempsey	9/2/70
}	METHOD: Coradi Automatic Plotter CHECKED BY	P. J. Dempsey	9/2/70
Ī	3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	E. L. Rolle	9/25/70
	COMPILATION CHECKED BY	H. R. Brooks	9/25/70
1	INSTRUMENT: Wild B-8 CONTOURS BY	None	
ŀ	SCALE:ADDTOX. 1:12,500 Panto CHECKED BY	NA F. F. Pollo	10/0/70
}	4. MANUSCRIPT DELINEATION 5:2 enlarge, ANIMETRY BY CHECKED BY	E. L. Rolle H. R. Brooks	10/2/70 10/2/70
	CONTOURS BY	None	10/2/10
[Draftedchecked by	NA	
	SCALE: 1:3,500 HYDRO SUPPORT DATA BY	None	
ì	CHECKED BY	NA	
ļ	5, OFFICE INSPECTION PRIOR TO FIELD EDIT BY	None	
]	6. APPLICATION OF FIELD EDIT DATA CHECKED BY	None NA	
	7. COMPILATION SECTION REVIEW BY	E. L. Rolle	10/9/70
	8. FINAL REVIEW BY	S. G. Blanker	
	9, DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	E. L. Rolle	10/14/70
	10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	S. G. Blanken	baker 10/14/70
1	THE POPULAR SEA		

USCOMM-DC 48200-P70

	ESSA FORM 76-366 (2-70)			ENVIRONMENT	TAL SCIENCE SER	RTMENT OF COMMERCE VICES ADMINISTRATION AND GEODETIC SURVEY		
•		CON	APILATION	SOURCES				
	1. COMPILATION PHOTOGRAPHY			·· ·····				
	CAMERAJO U. S. Navy pho Focal length approx.	OF PHOTOGRAPHY LEGEND	TIM	E REFERENCE				
	TIDE STAGE REFERENCE		(C) COL	DR.	ZONE	TSTANDARD		
	REFERENCE STATION RECORDS		(P) PAN	CHROMATIC	24 MERIDIAN	DAYLIGHT		
	TIDE CONTROLLED PHOTOGRAPH				165tr	·		
	NUMBER AND TYPE	DATE	TIME	SCALE	ST.	AGE OF TIDE		
	007 (P) and 008 (P)	8/24/64	10:10	1:25,000	O MLLW			
ì								
	The model of the	camera u	ised by	the U.S.Na	avy unknow	in.		
	2. SOURCE OF MEAN HIGH-WATER LINE:							
	Photos dated 8/24/64.							
	3. SOURCE OF MEAN LOW-WATER OF	MEAN LOWER L	OW-WATER LI	NE:				
	Photos dated 8/2	4/64						
	·	,						
			 "	,				
	4. CONTEMPORARY HYDROGRAPHIC					·, ·		
	survey number date(s) Inapplicable	SURVEY CO	PY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED		
	5. FINAL JUNCTIONS				· · · · · · · · · · · · · · · · · · ·			
	T-13416	^{sт} Т-13416	Ţ	south Talala Talala	WEST	i		
	REMARKS			T-13416		!-13416		
	T-13417 falls w	ithin the	limits	of T-13416	(scale 1:	15,000).		
	L							

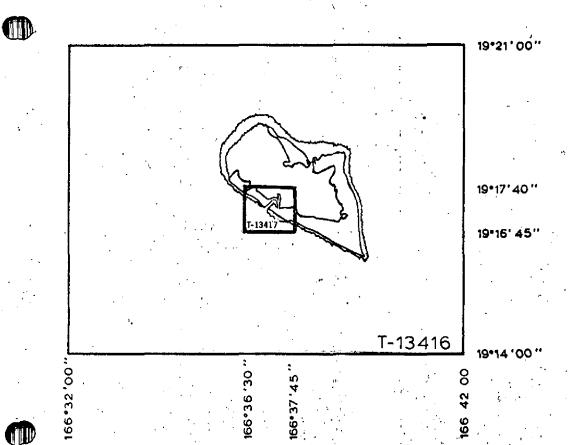
USCOMM-DC 46200-P70

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u	-5	
N		_

2-70)	HISTO	RY OF FIELD O		TAL SCIENCE SEF COAST		DMINISTRATIO
. FIELD INSP	ECTION OPERATION		EDIT OPERATION	cursory	char	tinspec
	OPERATION		1	IAME		DATE
. CHIEF OF FIEL			G. M. Ward Observation		Tide	Dec. 6 Jan. 7
. HORIZONTAL C		RECOVERED BY STABLISHED BY IDENTIFIED BY	None			
. VERTICAL CON		RECOVERED BY STABLISHED BY IDENTIFIED BY	None			
4. LANDMARKS AN	ATION ESCATED (1	ield Methods) BY	John B. Co (sec 11, s	OURCE DO to		Tune 691
6. GEOGRAPHIC N INVESTIGATION	AMES COMPLETE	E BY NAMES ONLY	Refer to #93(70)	chart let	ter	
6. PHOTO INSPEC	TION CLARIFICATION	OF DETAILS BY	None			
BOUNDARIES A	ND LIMITS SURVEYED OR	IDENTIFIED BY	None			
I. SOURCE DATA	ontrol identified None		2. VERTICAL CON	TROL IDENTIFIE	D	
PHOTO NUMBER	STATION NAME		PHOTO NUMBER	STATIO	N DESIGN	A TION
None Not	nd aids to navigation identified on phot	ography -	all data i	ncluded i	n cha	rt
PHOTO NUMBER	er #93 and Bluepri	nt #77588	BUOTO NUMBER			
TO HOMBER	(7°)		PHOTO NUMBER	OB.	JECT NAM	E
5. GEOGRAPHIC N	AMES: REPORT	NONE	6. BOUNDARY ANI	D LIMITS:	REPORT	NONE
	L MAPS AND PLANS Plan and Chart Sec RECORDS (Sketch books, etc. DO NO					
NOTE	: All field recor	ds filed i	n the Mari	ne Data B	ranch	



			KECO	RD OF SURVE	. 1 O3L		
I. MANUSC	RIPT COPIES						
COMPILATION STAGES						DATE MANUSCR	IPT FORWARDI
	DATA COMPILED		DATE	RE	EMARKS	MARINE CHARTS	HYDRO SUPP
P1	animetry	10	/2/70	No advar forwarde Charts	nce copy ed to Marine		Inapplic
			· · · · · · · · · · · · · · · · · · ·				
	IARKS AND AIDS TO NAV		N, NAUTICAL	DATA BRANCH			
NUMBER	CHARTLETTER		DATE		REM	ARK\$	
	NUMBER ASSIGNED	F	RWARDED				
			Inappli	cable			
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	<u></u>						
			<u>,</u>		·		
					,		
2. 🗀	REPORT TO MARINE CH	ART DIVI	SION, COAST	PILOT BRANCH	. DATE FORWARDED	<u>Inapplio</u>	
	REPORT TO AERONAUT		ART DIVISION	, AERONAUTICA	L DATA SECTION. D	ATE FORWARDED	Inappli
1.	BRIDGING PHOTOGRAF CONTROL STATION IDI SOURCE DATA (except ACCOUNT FOR EXCEP	NTIFICA or Geogra	TION CARDS;	FORM C&	GS 567 SUBMITTED B	Y FIELD PARTIES	
4.	DATA TO FEDERAL RE	CORDS C	FNTER. DAT	F FORWARDED:	0a+ 03	1070	
	EY REVISION (This section				000, 20,	1970_	
	SURVEY NUMBER		JOB NUMBE		REMARKS		
FIRST REVISIO	TP -	(2)	PH -		_		
KEVISIO	DATE OF PHOTOGI	RAPHY	DATE OF FI	ELD EDIT			
	SURVEY NUMBER		ЈОВ ИЏМВЕ	R	REMARKS		
SECONE	1	(3)	PH-				
REVISIO	N DATE OF PHOTOGE	RAPHY	DATEOFF	ELD EDIT			
	SURVEY NUMBER		JOB NUMBE	R	REMARKS		
		(4)	PH-				
THIRD	1 15-	17/					



Official Mileage for Cost Accounts

Sheet No.-Area Sq.Mi.

T-13416 T-13417

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Total 10

JOB PH-7009
WAKE ISLAND
CHART TOPOGRAPHY
SCALE 1:3,500&1:15,000

Summary T-11316 and T-11317

These maps provide a new base for Nautical Chart 4195 - covering Wake, Wilkes and Peale Islands.

Control for aerotriangulation consisted of 5 office identified triangulation stations. All stations held within accuracy requirements and the bridge provided adequate control for compilation.

Field work consisted of cursory chart inspections by a tide observation party during the period December 1968 through January 1970. The field data is comprised of annotated copies of an FAA Plan, chart sections, and Forms 567. Data application as a guide in selecting features to be delineated from the photographs were utilized by the compiler. Data requiring application by transfer from the FAA Plan and the chart sections will be applied by the chart compiler.

The photography was found to be generally poor for compilation purposes (refer to Item 31 of the Compilation Report). The inadequacies in photography and field work, called to the attention of the Marine Chart Divison. The maps were accepted as adequate for charting purposes.

D. S. Blankerbaker

June 22, 1970

21. Area Covered

This project covered Chart #4195, Wake Island, N. W. Pacific Islands.

22. Method

Three models (006 through 009) were bridged on the C-8 stereoplanigraph to provide basic control for the construction of a new chart of the area. Three horizontal points were used to control the adjustment with two points as checks. Additional points were selected to enable the compilation office to complete model 009-010.

23. Adequacy of Control

Although many control stations existed on the Island, only five stations could be identified with any certainty by office identification methods. All five stations held within accuracy requirements.

24. Supplemental Data

None

25. Photography

1964 U. S. Navy photography was used for the project. Excessive tip was noted in flight 006-010, however this did not impair bridging operations. Coverage, overlap and definition was adequate.

Submitted by,

John D. Perrow, Jr.

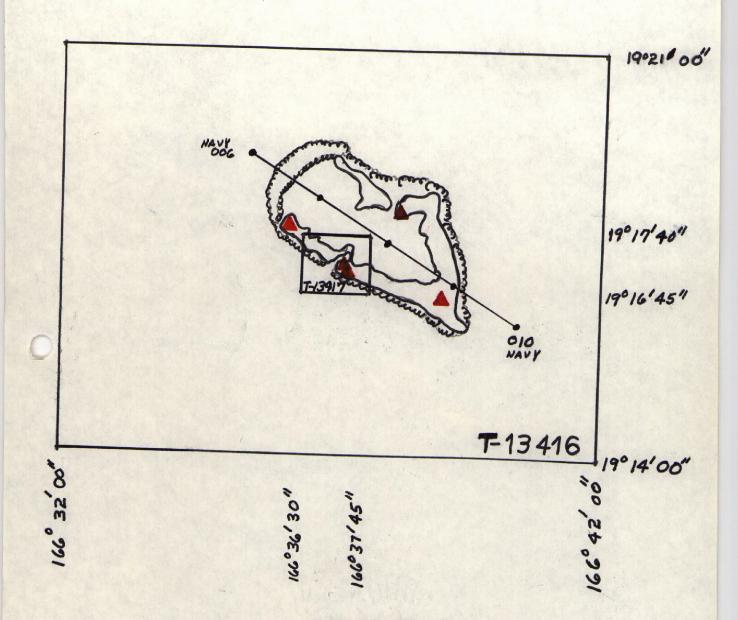
Appropried by,

Henry P. Elchert

Chief, Aerotriangulation

Section

(See following page)



JOB PH-7009
WAKE ISLAND
CHART TOPOGRAPHY
SCALE 1:3,500 & 1:15,000

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EDMM-DC

U.S. DEPARTMENT OF WHERCE ENVIRONMENTAL SCIENCE SERVICES ADMITTED RATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T. 13416 PROJECT NO.	T NO. PH-7009	SCA	SCALE OF MAP 1:15,000 SCAL	SCALE FACTOR
STATION	SOURCE OF INFORMATION (INDEX)	ВАТИМ	LATITUDE OR Y COORDINATE. LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)
WAKE ISLAND AIRPORT	Form C&GS-6355	Astro	190 161 37 384"	
	ano	ì	19°17' 56.827"	
VORTAC "AWK", 1964	=	11		
CITOTIA (TANK)	Tabulation of		19°17' 13,81"	
	MS-237)	11	166°37' 00.14"	
	or S & IBM Read	I.		
	3			
dation other		170	l .	
NAVOCEANO, 1958	= ,	=	166°38' 12.97"	
			19°17' 15.96"	
TANK NAVOCEANO, 1958		=	166°37' 01.16"	
	,			
-		<u> </u>		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				8
			-	A
		•		
OMPUTED BY	DATE		CHECKED BY	DATE



WAKE ISLAND
Wake Island 1952 Astro Datum - International Ellipsoid
Final Geographic Positions

	Sta. Jo.		Lati	Ltude	Eas	st Lo	ongitude
<i>:</i>	(1)	19°	161	37",41001	166°	381	53.87000 ^X
	2	19	17	19.98858	166	38	46.29167 ^X
	37 h	19	17	15.963447	166	37	.01 . 16507×
	TA	19 .	18	04.89798	166	38	09.42298 X
	GD A	19	18	12.87457	166,	37 ·	22.61334 ^X
>	6 V a	19	17	26.16789	166	36	39.61351 ×
	7	19	18	12.88190	166	37	22.58380 ^X

Numerical Index

Sta.	
No.	Station Name
A 1	TOWER (USNHO)
2	STA 3 (USE) /
1 6 3	TANK (USNHO)
. 40	SHOP /
a 5	FLIPPER
№ 6 √	WILKES
7	STA 7 (USE)

Compilation Report T-13417

This survey was compiled to furnish a new base for the Wake Island Boat Basin in set on Chart 4195 (formerly H.O. 6034).

31. Delineation

The Wild B-8 stereoscopic instrument was used to compile this manuscript. A stereomodel was set-up at an approximate scale of 1:12,500 and the pantograph set for a 2.5 x enlargement. The result was a worksheet compiled at a scale close to 1:5,000.

The worksheet was enlarged to a scale of 1:3,500 (scale of the manuscript) by photographic process. The map data was then transferred from the worksheet to the manuscript.

The only photography available for this area was inadequate for compilation. These photos were badly tipped and the imagery was fuzzy.

32. Control

Refer to the Photogrammetric Plot Report.

The identification, density and placement of horizontal control was adequate.

The water level was sufficient to control the stereoscopic models vertically.

33. Supplemental Data

Blueprint 77588 and Chart Letter 93 (70) with chart inspection notes for the revision of Chart 4195.

Due to the difference in the time between the photography (1964) and the supplemental data (1970), not all of the data could be applied to the T-sheet. The Nautical Chart Branch will add these few details to Chart 4195 at the time of reconstruction.

-2-

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34. Contours and Drainage

Contours - contours were not compiled due to the poor quality of the photography.

Drainage - all drainage on this manuscript is from office interpretation of the photographs.

35. Shoreline and Alongshore Details

There was no shoreline inspection. Shoreline was delineated from office interpretation of the photographs. The breaker-line was compiled as the approximate MLLW line. It was impossible to compile map detail in between the MHW line and the MLLW line.

36. Offshore Details

No comment.

37. Landmarks and Aids

All landmarks and aids to navigation field data will be applied to a copy of the manuscript by the Chart Compiler for use in charting.

Two mooring buoys visible on the photography were compiled.

38. Control for Future Surveys

No Form 524 submitted.

39. Junctions

Junction has been made with T-13416 (scale 1:15,000). This survey falls entirely within the limits of T-13416.

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40. Horizontal and Vertical Accuracy

No comment.

41. through 45. Not applicable.

46. Comparison with Existing Maps

Comparison has been made with Army Map Service, Corps of Engineers Wake Island Quadrangle, Sheet 7579 IV NW, Series W823, scale 1:25,000, Edition 1-AMS (AFFE) 1954.

47. Comparison with Nautical Charts

Comparison has been made with Chart No. 4195 (formerly H.O. 6034) scale 1:15,000, 1st Edition, January 1969.

Items to be applied to Nautical Charts immediately: None

Items to be carried forward: None

Respectfully submitted,

Edward L. Roll Cartographer

Approved and forwarded,

Harold R. Brooks

Chief, Revision Surveys

Section



FORM T-2

PHOTOGRAMMETRIC OFFICE REVIEW T- 13417

Projection and grids	,			
	CONTROL	STATIONS		
. Horizontal control stations of	third-order or higher accur	acy6.	Recoverable horizo	ntal stations of les
than third-order accuracy (topog			h .	
9. Plotting of sextant fixes		•		
•				
	ALONGSHO	ORE AREAS		•
1	(Nautical C	hart Data)		_
12. Shoreline13. Low	water line 14. Ro	ocks, shoals, etc	15. Bridges	16. Ald
to navigation17. Land				
shore cultural features	-		-	
filore carretal reactives				
	PHYSICAL I	EFATURES.	•	
20. Water features 21			hle contours X	23 Sterenecon
instrument contours				
	24. Contours in general	ـــــــــــــــــــــــــــــــــــــ	nevations	_ 26. Other physic
features			*	
			•	
	CULTURAL			
27. Roads28. Buildin	ngs 29. Railroads	š2 30. Otr	ier cultural features	
	ι			•
¥	BOUND			
31. Boundary lines3	2. Public land lines			
	*			·
	MISCELL			
33. Geographic names				<u> </u>
overlay 37. Descriptiv	ve Report 38. Fie	id inspection photo	ographs X 34	9. Forms
40. Callera A. Revie	Not II	- / ya	pervisor, Review Section	n or Unit
	····			
41. Remarks (see attached she	et)			
			×	
FIELD COM	PLETION ADDITIONS AND	CORRECTIONS TO	THE MANUSCRIPT	,
42. Additions and corrections for			been applied to th	e manuscript. Th
manuscript is now complete exe	cept as noted under item 4	13.	× .	•
			•	



Review Report T-11316 and T-11317

61. General Statement

Inadequacies in photography and field work are outlined in the Descriptive Report Summary.

62. Comparison with Registered Topographic Surveys

Inapplicable.

63. Comparison with Maps of Other Agencies

Wake Island Quad (AMS) 1:25,000 1954

No significant differences were noted. Much of the cultural information on the quadrangle is out dated.

- 64. Comparison with Contemporary Hydrographic Surveys
 Inapplicable
- 65. Comparison with Nautical Charts

Chart No. 4195 1:15,000 1st Edition, Jan. 20, 1969

No significant differences were noted.

66. Adequacy of Results and Future Surveys

The maps have been accepted for charting purposes; however, new photography and a thorough field inspection will be necessary to ensure compliance with National Standards of Map Accuracy and Bureau requirements.

Reviewed by,

S. G. Blankenbaker

Approved by,

Chief, Photogrammetric Branch C

Chief, Photogrammetry Division





October 21, 1970

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7009 (Wake Island) T-13417

Wake Island Wilkes Island

Approved by:

A. J. Wraight / Chief Geographer

Frank W. Pickeyt Cartographic Technician