# 2183

#### Form 50e

U. .S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Field No. Office No. T-12183

## **LOCALITY**

General locality KEKU STRAIT

ALASKA

Locality CAPE BENDEL

**19** 62-1966

# CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

# MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT - DATA RECORD T - 12183

PH 6206				
ELD OFFICE (II):		CHIEF OF PARTY	•	
HOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAI		NO A A
Atlantic Marine Center		Alfred C. H		
Photogrammetric Branch		Director,	Atlantic	Marine Cer
January 18, 1965 OFFIC November 26, 1965 OFFIC	E The STIPPILEM	EMT T		
March 18, 1966 OFFIC May 11, 1965 FIELD June 14, 1965 FIELD	TE AMENDME D	NT I		
NETHOD OF COMPILATION (III):  Kelsh instrument and W	ild B-8			
NUSCRIPT SCALE (III):	STEREOSCO	PIC PLOTTING IN	STRUMENT SCA	LE (III):
1:10,000	1:10,0	000 and 1:8	3,333	
		ORTED TO NAUTIC	<del></del>	
ATE RECEIVED IN WASHINGTON OFFICE (IV):				
PPLIED TO CHART NO.	DATE:	•	DATE REGIS	TERED (IV):
EOGRAPHIC DATUM (III):		VERTICAL DATE	JW (III): WY H	N
EOGRAFIII DATUM IIII.		MONTENA	L EXCEPT A5	FOLLOWS:
N. A. 1927		Elevations shown	as (25) reler to	meen high water
		Elevations shown	_	
REFERENCE STATION (III):		<u>i</u>		
CART 1927 🖊				
Longs		X ADJUSTED		
AT.: LONG.:	(ነይዘ ,	UNADJUSTE	D	
57°01' 29.229"   134° 03' 03.5				T =
-01,-	,10	STATE		ZONE

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE A	ND METHOD OF LOCATION):	<u></u>
Air Photo Compilati	Lon 37	
Date of Photography	7: 6/16/62, 7/27/65, 7/28/65	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		11/03/65
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		11/03/65
CONTROL PLOTTED BY (III):		DATE
R. Smith		01/11/66
CONTROL CHECKED BY (III):		DATE
		!
C.H. Bishop		01/11/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTER	NSION BY (III):	DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY K. Boyle	⁰ਹਿੱ 18/66
	REV. BY: L. Neterer	01/18/66
Ke <b>ls</b> h	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
K. G. Boyle		92/10/66
SCRIBING BY (III):		DATE
F. P. Margiotta		06/13/68
F.	OMPILATION: C.H. Bishop IELD EDIT: C.H. Bishop	DATE 02/16/66 12/10/66 06/29/68
	CRIBING & STICK UP: R. E. Smith	00/29/00
REMARKS: FIELD EDIT BY:	Ship PATTON	June 1966

# **DESCRIPTIVE REPORT - DATA RECORD**

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "W" & Wild RC-9 "M"

NUMBER   DATE   TIME   SCALE   STAGE OF TIDE	PHOTOGRAPHS (III)						
65-M-107 and 108 27July1965 0836 PST 1:50,000 0.8 below MLIW 62-W-5491 thru 5495 16June 1962 0916 PST 1:20,000 4.0 above MLIW 62-W-5515 and 5516 16June 1962 0924 PST 1:20,000 4.0 above MLIW	NUMBER	DATE	TIME SCALE		STAGE OF TIDE		
	65-M-107 and 108 62-W-5491 thru 5495 62-W-5515 and 5516	27 <b>J</b> uly1965 16 <b>J</b> une 196 <b>2</b> 16 <b>J</b> une 1962	0836 PST 0916 PST 0924 PST	1:50,000 1:20,000 1:20,000	0.8 below MLIW 3.4 above MLIW 4.0 above MLIW		

TIDE (III)				
		RATIO OF RANGES	MEAN RANGE	XSXXXXXX RANGE
REFERENCE STATION: Ketchikan			13.0	15.4
SUBORDINATE STATION: Kake, Keku Strait			11.7	14.0
SUBORDINATE STATION:				
washington office review by (IV): Leo F. Beugnet, AMC		August	: <u>, 1</u> 971	
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIE	D	

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

T-12183

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	March 1966	Superseded
·		!
Field Edit applied	November 1966	Superseded
Final Review	September 1971	Superseded
Discrepancies with reviewed hydro surveys resolved; Addendum to Review Report added.	Oct. 1972	

#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-12183

Shoreline survey T-12183 is one of 53 similar surveys in project PH-6206. The primary purpose of the project was to provide modern shoreline and photo-hydro support data for hydrographic surveys in the Keku Strait area. See page 5 for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. The survey was field edited during the course of hydrography.

Compilation was at 1:10,000 scale by Kelsh and Wild B-8 plotter methods using the photography of June 1962 and July 1965. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for transfer of the shoreline to the boat sheet, photo-hydro support use and field edit.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in September 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

# FIELD INSPECTION REPORT T-12183

There was no field inspection prior to compilation.

Photogrammetric Plot Report Project PH-6206 Keku Straits, Alaska November 1965

# 21. Area Covered

This report covers an area of Alaska in the upper portion of Keku Straits and its confluence with Frederick Sound.

# 22. Method

Analytic aerotriangulation methods were used to bridge four strips of "M" photography at the scale of 1:50,000. The attached sketch of strips bridged shows the amount and placement of triangulation furnished. Closures to control and to tie points have been tabulated.

# 23. Adequacy of Control

Horizontal control (pre-marked targets) identified and required to adjust the strips bridged was slightly above our minimum requirements. Two of the four strips were adjusted using only three stations and common tie points as a check to our bridging accuracy. The final results are well within the National Standards of Map Accuracy for the fourteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 through T-12192, T-12196 and T-12197).

Control stations that were not used in our final adjustment follow: (1) CORN, 1925, this station is on the tip of a peninsula and so situated that it was impossible to set a model in which this station could have been of any value to our work; (2) KEKU, 1927, this target was not visible on either the film or the plates. It is our belief, based upon the published description, that the target might have washed away; (3) HAM, 1927, this station was used on Strip #2, however on Strip #3 the target was not visible because the lay-over:of trees near the station obscured the target on one photograph.

# 24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final adjustment.

# 25. Photography

Photography was adequate with regard to coverage, overlap and image defination.

Respectfully submitted:

Approved and forwarded:

Menry P./Eichert Acting Chief, Aerotriangulation Section

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-0.9)

0.0)

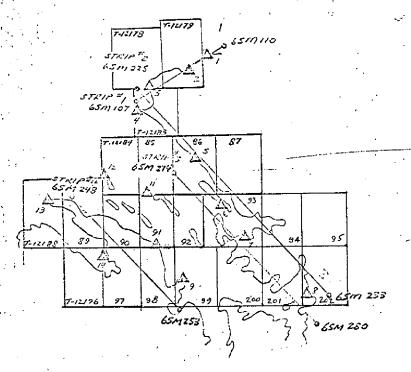
0.0)

0.0)

# CLOSURE TO CONTROL AND THE POINTS (feet)

				•			••		
	STRIP	#1					STRIE	#3 co	nt.
	BENDE	L, 1917	-0.1)		, Ą		HAM,	1927 (-2.8	-0.9
•	KELP,	(0.0 1965 (-0.1			•		ACE,	1927 (+3.4	÷3.1
	PINT,	1965 (-0.1				•	AMY, S.S.	1927 (-0.6	·
	STRIE	•		• • .		·	STRI	2 #4	
	BENDE	工,1917 (+1.3	0.0)				GNAW	, 1965 (-0.1	0.0
	CART,	1927	-0.6)				_	1927 (-0.1	0.0
	KAKE,	1927 (-1.4			·	•	LUCK	, 1927 (-0.1	0.0
		1927 (+1.3		٠.			TIES	TO ST	RIP #3
	AMY, S.S.	1927	-0.4)		•		•	74401	(+0.1 (+0.3
	TIES	TO STRI	P #1		; ;			75401	(+9.3 (+3.1
•		08401 ( 08402 ( 08402 (	-0.9	+10.1)				76402	(+6.7
	THES	TO STRI	P #3						
		27401	±6.7		1		•		
	•	28401 (	+3.4	+ 9.1 - 2.4 - 0.7		•	•	ь	
	<b>4</b> *	29401 ( 29402 ( 29403 (	+9.5 +8.2	+ 6.0 + 3.7				•	•
		33402 (	+3.2 +5.0	+ 0.4 + 5.4		•		•	
	STRI	<u>P #3</u>					19 .		
	KAKE	, 1927 (+1.8	-2.1)	•					
			- •	_					

+0.5)



KEKU STRAITS NLASKA PH - 6206

> SHORELINE MAPPING SCALE 1:10,000

> SINGLE LENS PHOTO. SCALE 1:50,000

KEY TO TRIANSULATION

PINT, 1965

R. KELP, 1965

3. BENDEL, 1917

CART 1927

Low, 1927

11. 19270 1927

12. KEKÚ, 1927

13. CORN, 1925

14. GNAW 1965

File

# Job PH-6206 Keku Straits, Alaska

# Notes to Compiler

The drill holes have been cleaned, however, it is suggested that due to the methods by which the plates have been transported the holes be recleaned. The method that we have found most practical has been to gently tap the area around the drill hole with scotch tape; this will remove any emulsion which may have fallen back into the holes.

The difference between the dates of the photography (M 65 E to E plates and W 61 and 62 Kelsh plates) as well as the scale difference (M 1:50,000 and the W 1:20,000) caused the pug operators a great amount of trouble, hence, it is advisable to have the Kelsh operators drop as many additional points to help control the surrounding models.

The Kelsh operators will also have some models that have only three points, this unfortunate condition could not be avoided.

There are areas within the project limits that cannot be delineated by using the Kelsh plotter, therefore, the M photography will have to be set in the E-8's. The methods by which the shoreline is to be delineated and the field ratio prints for are to be furnished for hydro support will be up to the Compilation Office. Kelsh plates have been ordered to cover the whole area even though only 60 percent of the plates have been drilled. These plates may or may not be of any additional help to you, however, we have tried to furnish all the available material.

The following list indicates those Kelsh models that can be set:

61 W 9348 - 57 61 W 9401 - 05 61 W 9407 - 11 62 W 5480 - 88 62 W 5564 - 71

and the additional Kelsh plates furnished but not drilled:

62 W 5478 - 79 62 W 5491 - 97 62 W 5507 - 15 62 W 5560 - 63 The attached diagram shows (1) the areas that can be compiled with the Kelsh plotter, (2) the areas to be compiled either with the B-8 or graphically, and (3) the area within the project limits which cannot be compiled. This problem has been called to the attention of Mr. Heywood. This diagram should be used only as a reference diagram, the final project and control diagram will accompany the Photogrammetric Plot Report.

Es envisoriée 10501 FULL 1966

FORM 164 (4-23.54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

PAST AND GEODETIC SURVEY NTROL RECORD

N.A. 1927 - DATUM

DISTANCE
FROM GAID OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS
IN METERS (BACK) FORWARD DATE 2/3/66 SCALE FACTOR (BACK) FORWARD DATUM SCALE OF MAP 1:10,000  $\Omega'\Omega$ (2.926) 904.2 (951.9) 1468.8 (3531.2) 467.2) 675.8) (1887.8) (1380.5)59.4 (952.9) 469.9) OR PROJECTION LINE IN METERS (1475.0)(2597.5)873.2 (138.1) DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY: 4073.8 1180.3 545.6 3619.5 3112.2 2402.5 381.0 4530.1 FORWARD LATITUDE OR p.COORDINATE LONGITUDE OR x.COORDINATE 12.318 32.319 29.229 03.518 51.809 38.154 402.48 1 896 468.78 619.50 530.06 609 073.75 112,20 PROJECT NO. Ph-6206 DATE 1/17/66888 617 S 613 00 606 00 5 63 10 Ŋ N 57 S 134 7, 134 5, 134 GP Vol N.A. II 355 1927 DATUM Ė = Ξ = = SOURCE OF Vol II p. 364 GP III p. 991 CHB 57134 p. 8 57314 p. 2 57134 p• 1 (INDEX) MAP T. 12183 1 FT. = .3048006 METER STATION WHITE 1927 BENDEL 1917 COMPUTED BY: CART 1927 = =

### COMPILATION REPORT

#### T-12183

# 31. DELINEATION

Planimetry was compiled by Kelsh instrument.

# 32. CONTROL

Adequate supplementary control, based on identified horizontal control, was established by aerotriangulation.

## 33. SUPPLEMENTAL DATA

None.

# 34. CONTOURS AND DRAINAGE

Contours are not applicable.

One large stream southeast of Pt. Macartney was delineated.

# 35. SHORELINE AND ALONGSHORE DETAILS

There was no field inspection prior to compilation. Shoreline and alongshore details were delineated from office interpretation of the photographs.

## 36. OFFSHORE DETAILS

None.

### 37. LANDMARKS AND AIDS

No landmarks were selected.

The only fixed aid to navigation within the manuscript area is Point Macartney Light. It was not identified on the photographs and was not compiled.

### 38. CONTROL FOR FUTURE SURVEYS

None.

#### 39. JUNCTIONS

Satisfactory junctions have been made with T-12178 and T-12179 to the north, and T-12185 and T-12186 to the south. There are no contemporary surveys to the east or west.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

#### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with 1:63,360 scale U.S.G.S. Quadrangles SITKA (A-1), ALASKA and SUMDUM (A-6), ALASKA, both published in 1948.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 8201, scale 1:217,828, revised 20 July 1964. A charted bare rock about 3000 feet northeast of Pt. Macartney was not discernable on the photographs. And rock about 1000 feet east of the charted position was visible on the photographs and was compiled.

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

## ITEMS TO BE CARRIED FORWARD

None.

Approved for forwarding:

Submitted:

Chief, Photogrammetry Div.

C. H. Bishop Cartographer

Charles HB 15hop

Approved:

Ifred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

August 5, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Alaska)

T-12183

Cape Bendel

Frederick Sound

Keku Strait

Kupreanof Island

Point Macartney

Point White

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by:

Frank W. Pickert Cartographic Technician

# 49. NOTES TO THE HYDROGRAPHER.

- 1. Compilation was done without the aid of field inspection; therefore, the office interpretation of the mean high water line, character of the foreshore, foul areas and ledge limits should be verified.
- 2. All rock data is to be added by the Hydrographer.

FORM C&GS-1002			u.:	ESSA			
PHOTOGRAMMETRIC OFFICE REVIEW							
T- 18183							
1. PROJECTION AND GRIDS	2 TITLE	<u> </u>	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE			
14 EUGACO HON VIIID OUIDS							
СНВ_	CHI	3	CHB	CHB			
CONTROL STATIONS			<u>- , </u>	1			
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF CCURACY	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS			
СНВ		(Topographic	XX XX	XX			
8. BENCH MARKS	9. PLOTTING C	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS			
XX	XX		Bridge (W.O.)	XX			
ALONGSHORE AREAS (Nautical	Chert Deta)						
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES			
СНВ	сн	В	CHB	XX.			
16. AIDS TO NAVIGATION	17. LANDMARK	(5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES			
XX	XX		СНВ	XX			
<b>AA</b>			0.10				
PHYSICAL FEATURES		151		22. PLANETABLE CONTOURS			
20. WATER FEATURES		21. NATURAL G	ROUND COVER				
СНВ			СНВ	XX			
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES			
xx	XX		XX	XX			
CULTURAL FEATURES							
27. ROADS	28. BUILDING	•	29. RAILROADS	30. OTHER CULTURAL FEATURES			
XX	XX		XX	XX			
BOUNDARIES							
31. BOUNDARY LINES	31. BOUNDARY LINES 32. PUBLIC LAND LINES						
XX XX							
MISCELLANEOUS  33. GEOGRAPHIC NAMES	<del></del>	34. JUNCTIONS	3	35. LEGIBILITY OF THE MANUSCRIPT			
CHB			снв	СНВ			
36. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS			
XX Charle	HR CH	B	None	СНВ			
40. REVIEWER Charles H		12/10/66	SUPERVISOR REVIEW SECTION	Yauch. A.			
Charles H. Bishop 12/10/66 Albert C. Rauck, Jr.							
41. REMARKS (See attached she	et)		<u> </u>				
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT							
42. Additions and corrections script is now complete ex-	furnished by the	he field complet ider item 43.	ion survey have been applied t	to the manuscript. The manu-			
COMPILER Charles H.	ATTORGAND	2/10/66	SUPERVISOR Albert	C. Rauck. J.			
		12/10/66	Albert C. Rauck,	Jr.			
43. REMARKS		· · · · · · · · · · · · · · · · · · ·	<u> </u>				

Field Edit applied from: Field edit ozalid, field photos. Nos. 62-W-5491, 5492, 5493, 5495, and 5563.

# T-12183

# FIELD EDIT REPORT

There were no field edit reports submitted with the field edit covering the 1966 to 1968 season's work, and no Form 567 was submitted to the compilation office by the field party.

#### REVIEW REPORT T-12183

### SHORELINE

### SEPTEMBER 1, 1971

# 61. GENERAL STATEMENT:

See Summary, which is page 6 of the Descriptive Report.

# 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There were no prior registered topographic surveys available for comparison purposes at the time of final review.

# 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS SITKA (A-1) and SUMDUM (A-6), ALASKA, 1:63,360 scale quadrangles, editions of 1948. The surveys appear to be in good general agreement.

# 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-8907 (PA 10-2-66) and H-9000 (PA 10-3-66). The shoreline of the boat sheets and survey T-12183 is in good agreement. All differences between the surveys have been noted on the comparison print in purple.

### 65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8201, 16th edition dated November 7, 1970. This is a 1:217,828 scale chart and only a visual comparison was feasible.

Point Macartney Light, latitude 57°01.5' longitude 134°03.4', is not visible on photographs of the area and was not located by the field editor. No other significant omissions or changes were noted.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet Cartographer

Approved for forwarding:

Melvin J Umbach, CDR, NOAA Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

#### ADDENDUM TO REVIEW REPORTS

T-12178, T-12179, AND T-12183 THROUGH T-12202

After Maps T-12178, T-12179, and T-12183 through T-12202 had ben final reviewed and the reports written and signed, and the hydrographic surveys had been verified and reviewed, the Marine Chart Division requested additional review of the photogrammetric manuscripts to aid in resolving discrepancies between the hydrographic and photogrammetric surveys. Discrepancy prints of each T-sheet and verified copies of the hydrographic surveys were furnished to aid in this review. H-9041 Boat Sheet was used for T-12198 through T-12202, as a verified copy of this survey was not available to the reviewer.

Copies of the hydrographic surveys were used as sids to verify what could be seen on the photographs of the area: If a feature on the hydrographic survey was not positively identifiable on the photographs, it was not added to the T-sheet. This review resulted in the revision of several ledges, some mean high water line, and the addition of several rocks awash. The hydrographer's elevations were not added to the photogrammetric manuscripts.

Questions on the discrepancy prints were answered on separate czalids and returned to the Marine Chart Division, along with a Chart Maintenance Print reflecting differences between the Advance Manuscript and the Final Reviewed Manuscript for each map.

Comparison prints bound with this report reflect differences with the verified hydrographic surveys, except T-12198 through T-12202, rather than the boat sheets. The sources for shoreline on the verified hydrographic surveys were copies of Advance Menuscripts; therefore, shoreline agreement is generally good.

Charles H Bishop

Charles H. Bishop Cartographer January 1973

"我们就是我们的现在分词,我们的自己的,我们就是我们的自己的,我们就是我们的,我们也会不是我们的,我们就会不是我们的。""我们",我们就

