# 12197

#### FORM C&GS-504

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

# DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Office No. T-12197

LOCALITY

State Alaska

General locality Keku Strait

Locality Saginaw Creek

19.65-1968

CHIEF OF PARTY

Alfred C. Holmes, Director, AMC

LIBRARY & ARCHIVES

12197

,

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION

DESCRIPTIVE REPO	ORT - DATA	RECORD	COAST AN	D GEODETIC SU	RVET
i i	- 12197		•		
CT NO. (II):					
				•	
Job PH-6206		<b>T</b>			
FIELD OFFICE (II):		CHIEF OF PARTY			
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHAR			
Atlantic Marine Center		Alfred C. Holmes, RADM, NOAA Director, AMC			
INSTRUCTIONS DATED (II) (III):					İ
March 18, 1966 OFF	ICE SUPPI ICE AMENI ICE SUPPI ID LD	MENT I			
METHOD OF COMPILATION (III):					
Wild B-8					
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUMENT SCALE (III):			
1:10,000	1:8,33	3 pantographed to 1:10,000			
DATE RECEIVED IN WASHINGTON OFFICE (IV):	ORTED TO NAUTICAL CHART BRANCH (IV):				
APPLIED TO CHART NO.	DATE:		DATE REGIS	TERED (IV):	/
GEOGRAPHIC DATUM (III):  N.A. 1927	VERTICAL DATUM (III): MHW  MEMORISENCE EXCEPT AS FOLLOWS:  Elevations shown as (25) refer to mean high water  Elevations shown as (5) refer to sounding datum  i.e., MEMORIPHY THE MEAN lower low water				
REFERENCE STATION (III):  GNAW 1965					
LAT.: LONG.: 56°52°04.93019"(152.51m) 134°09°26.60233"	(450.7m)	XX ADJUSTED  DINADJUSTED			
PLANE COORDINATES (IV):		STATE		ZONE	
1 839 342.00 ft. ×= 2 587 461.23 ft	. 🗸	Alaska	/	1	/
N NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTE	RED BY (II) F	IELD PARTY, (III) F	PHOTOGRAMME	ETRIC OFFICE.	

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	AND METHOD OF LOCATION):	
MEAN HIGH WATER COCATION WILL STATE DATE	AND METHOD OF EGGATION.	•
Air photo compil	ation	
	phy: July 29, 1965	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		11-08-65
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. S. Kornspan		11-08-65
CONTROL PLOTTED BY (III):		DATE
C. H. Bishop		01-13-66
CONTROL CHECKED BY (III):		DATE
* Oh./ 1		07 10 ((
J. Steinberg		01-13-66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
G. M. Ball		No. 2065
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY T O No.	Nov. 1965
STEREOSCOPIC INSTRUMENT COMPLEXITION (III)	L. O. Neterer, Jr.	07-11-66
	Reviewed: K. G. Boyle	07-11-66
Wild B-8	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III): L.O. Neterer, Jr.		DATE
		07-14-66
SCRIBING BY (III):		DATE
F. P. Margiotta		06-25-68
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): COMPILATION: C.H. Bishop		DATE 07-21-66
FI	06-20-66	
REMARKS:	G & STICKUP: R. J. Pate	06-26-68
Field Edit by:	Ship PATTON	June 1967

USCOMM-DC 36393C-P66

# **DESCRIPTIVE REPORT - DATA RECORD**

MERA (KIND OR SOURCE) (III):

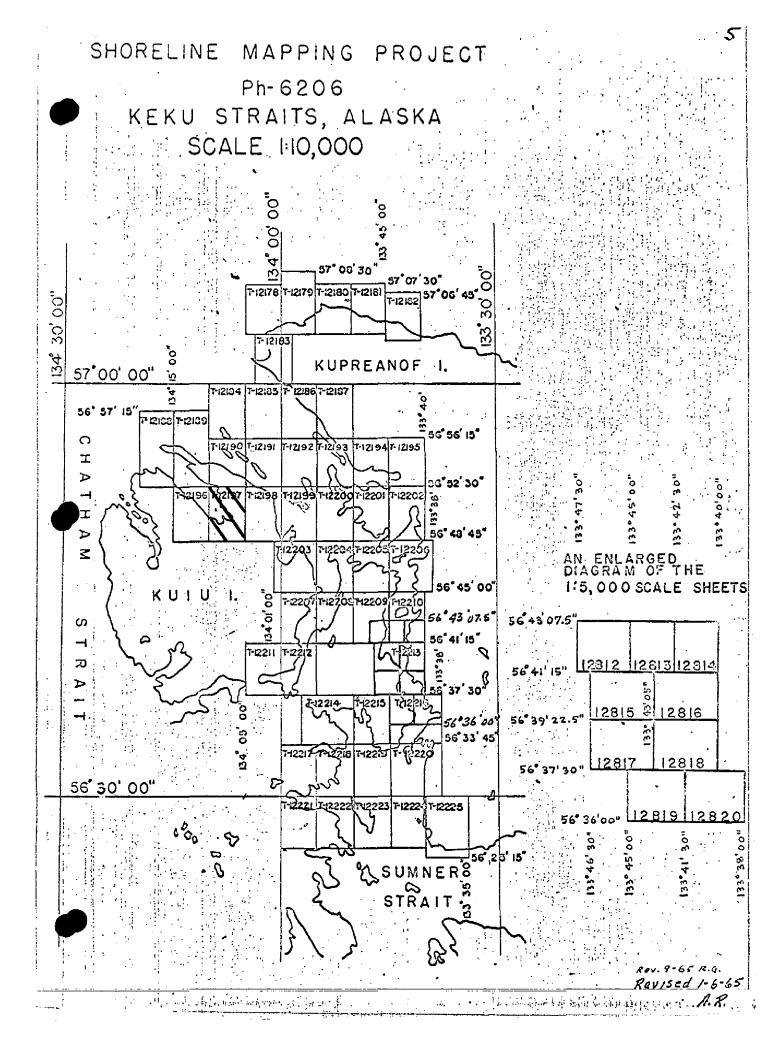
Wild RC-9 "M"

Wild RC-	.9 "M"					
	PHO	OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	S1	AGE OF TI	DE
65 м 244	07-29-65	09:13	1:50,000	3.1 <sub>0</sub> be)	ow MLLW	
	PREDICTED	TIDE (III)		RATIO OF RANGES	DI MEAN RANGE	URNAL XXXXXX RANGE
REFERENCE STATION:	Juneau				13.8	16.4
ORDINATE STATION:	Saginaw Bay, K	uin Island			11.3	13.8
SUBORDINATE STATION:	Juganus Jujy s	ara rozana				12.0
WASHINGTON OFFICE REVIE	N BY (IV): Leo F. Bec	anet, Amo	•	DATE:	1971	
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED: /				IDENTIFIE	D: /	
NUMBER OF BM(S) SEARCHED FOR ([]):					D	
NUMBER OF RECOVERABLE	PHOTO STATIONS ESTABLIS	HED (I(1):	· · · · · · · · · · · · · · · · · · ·	!		
NUMBER OF TEMPORARY PH	OTO HYDRO STATIONS ESTA	ABLISHED (III):				
REMARKS:		***				
		,				•

#### T-12197

4

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	July 1966	Superseded
Field Edit applied Compilation Complete	June 1968	Superseded
Final Review	Nov. 1971 & De	c 1972
Discrepancies with reviewed hydr surveys resolved; Addendum added to Review Report		



## SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-12197

Shoreline survey T-12197 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 Wild B-8 methods using the photography of 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 November 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT JOB PH-6206 T-12197

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-overief 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:

George My Ball

Approved and forwarded:

Menry P.//Eichert

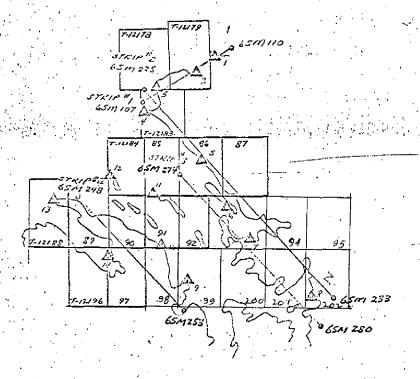
Acting Chief, Aerotriangulation Section

# CLOSURE TO CONTROL AND THE POINTS (feet)

STRIP #1	,
EENDEL, 1917 ( 0.0	-0.1)
(0.0 KELP, 1965 (-0.1	-0.1)
PINT, 1965 (-0.1	-0.1)
STRIP #2	
BENDEL, 1917 (+1.3	0.0)
CART, 1927 (-2.0 KAKE, 1927	-0.6)
(-1.4	+0.1)
AGE, 1927 (+1.3	÷0.6)
AMY, 1927 S.S. (-0.5	-0.4)
TIES TO STRI	P #1
08402 <b>(</b> 08402 <b>(</b>	-0.9 + 10.1
THE TO STRI	<u>P #3</u>
28401 { 29401 { 29401 } 29402 } 29403 {	+6.7 +6.2) +9.0 +9.1) +3.4 -2.4) +5.5 -0.7) +9.5 +6.0) +8.2 +3.7) +3.2 +0.4) +5.0 +5.4)
STRIP #3	,
KAKE, 1927 (+1.8 ALTO, 1927 (-2.0	-2.1) +0.5)

# 

# 74401 (+0.1 +0.2) 74401 (+0.3 +0.6) 75401 (+9.3 -6.2) 76401 (+3.1 +3.2) 76402 (+6.7 +5.4)



KEKU STRAITS ALASKA PH - 6206 SHORELINE MAPRING SCALE 1:10,000 SINGLE LENS PHOTO. SCALE 1:50,000

KEY TO TRIBIDION

L. KELP, 1965

3. BENDEL, 1917

7. ASE, 1927

LOW, 1927

11. ALTO, 1927

12. KEKU, 1927

13. CORN, 1925

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINESTRATION COAST AND GEOD

DESCRIPTIVE REPORT—CONTROL RECORD 9029

12197

FORM C&GS-164 (4-68) USCOMM-DC 50318-P68

1.2 DISTANCE FROM GRID OR PROJECTION LINE IN METERS ( $I\ Ft. = 3048006\ meter)$ (BACK) N.A. 1927 - DATUM 2461.2 (2 538.8) 4342.0 (0 658.0) 450.7 ( 565.8) 152.5 (1703.5) 06-27-68 FORWARD SCALE FACTOR DATE LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE 560 521 04.930191 091 26.60233" 839 342.00 461.23 SCALE OF MAP 1:10,000 587 11.6 CHECKED BY 134 ø DATUM N.A. 1927 = 06-27-68 Final GP & PC SOURCE OF INFORMATION IBM Readout-(INDEX) = DATE PROJECT NO. STATION 铝 GNAW 1965 E MAP T-COMPUTED BY

## COMPILATION REPORT T-12197

## 31. DELINEATION:

The Wild B-8 was used. Photography was satisfactory.

# 32. CONTROL:

See Photogrammetric Plot Report dated Nov. 1965.

## 33. SUPPLEMENTAL DATA:

None

## 34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

# 35. SHORELINE AND ALONGSHORE DETAIL:

Shoreline and alongshore detail was compiled from office interpretation of the photographs. No Mean Lower Low water was shown.

# 36. OFFSHORE DETAIL:

Offshore details were compiled from office interpretation of the photographs.

# 37. LANDMARKS AND AIDS:

None

## 38. CONTROL FOR FUTURE SURVEYS:

None

# 39. JUNCTIONS:

Satisfactory junctions have been made with T-12190 to the north, T-12198 to the east and T-12196 to the west; there is no contemporary survey to the south.

# 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement

# 46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S. Quadrangle, PORT ALEXANDER (D-1), ALASKA, scale 1:63,360, dated 1948. No differences were noted.

# 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Nautical Chart 8214, scale 1:40,000 dated July 1, 1909, revised 1959.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Lowell O. Neterer, Jr. Cartographic Technician

Approved for forwarding:

elvin J. Umbach, CDR, NOAA

Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes, RADM, NOAA Director, Atlantic Marine Center

December 8, 1971

GEOGRAPHIC NAMES FINAL NAME SHEET PH-6206 (Alaska)

T-12197

Kuiu Island

Saginaw Bay

Saginaw Creek

Straight Creek

Approved by:

A. Voseph Wraight Chief Geographer

Prepared by

Frank W. Pickett Cartographic Technician

1,9. NOTES FOR THE HYDROGRAPHER

See Field Edit Ozalid for notes.

FORM C&G\$-1002			U.	S. DEPARTMENT OF COMMERCE	
(8-00)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY	
T- 12197					
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
СНВ	СНВ		СНВ	СНВ	
CONTROL STATIONS		<u></u>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY  6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)			7. PHOTO HYDRO STATIONS		
CHB		(1 opograpiin	XX	XX	
8, BENCH MARKS	9. PLOTTING (	F SEXTANT	10, PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS	
XX	XX		Bridge W.O.	Wild B-8	
ALONGSHORE AREAS (Nautical	Chart Data)		<u> </u>	<u> </u>	
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
СНВ	XX		СНВ	XX	
16. AIDS TO NAVIGATION	17. LANDMARK	5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
xx	XX		XX	СНВ	
PHYSICAL FEATURES	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<del>!</del>	· · · · · · · · · · · · · · · · · · ·	
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS	
СНВ			СНВ	XX	
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES	
INSTRUMENT CONTOURS			nest*		
XX	XX		XX.	XX	
CULTURAL FEATURES  27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL	
XX	XX		XX	FEATURES	
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES		
XX XX			XX		
MISCELLANEOUS			<u> </u>	· · · · · · · · · · · · · · · · · · ·	
33. GEOGRAPHIC NAMES		34. JUNCTIONS	5	35. LEGIBILITY OF THE	
СНВ			СНВ	СНВ	
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
XX	СНВ		<b>XX</b> .	CHB	
40. REVIEWER Charles H. Bishop			SUPERVISOR, REVIEW SECTION	ORUNIT 60	
C.H. Bishop 7-21-66			Albert C. Rauck,	Jr.	
41. REMARKS (See attached sheet)					
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT					
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.					
C. H. Bishop 06-20-68 Supervisor albert C. Rauch.					
Rev. by: C. H. Bis		20-68	Albert C. Rauck,	Jr.	
43. REMARKS					

Field Applied from:

Field Edit ozalid and Field Photos. Nos. 65-M-2hh, 2h5.

T-12197

# 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-12197

#### SHORELINE

November 30, 1971

#### 61. GENERAL STATEMENT:

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

## 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with registered survey No. 2152, a 1:20,000 scale survey made in 1892. That survey is now obsolete and is superseded by T-12197 for nautical chart construction purposes.

### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS PORT ALEXANDER (D-1), ALASKA, 1:63,360 scale quadrangle, edition of 1948 with minor revisions made in 1963. The two surveys are in good general agreement.

## 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8960 (PA 10-1-67). The shoreline for that boat sheet was obtained from incomplete manuscript T-12197. Many corrections to the manuscript were made during the application of field edit data. The difference in the shoreline of the two surveys has been shown on the comparison print in purple.

### 65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8214, 4th edition dated December 16, 1968. The two surveys are in good general agreement.

# 65. COMPARISON WITH NAUTICAL CHARTS (cont'd)

Special attention is called to a small islet near latitude 56°51'40" longitude 134°09'02". The source for this islet on the chart is unknown, however, it was compiled as an islet on incomplete manuscript T-12197. Examination of the photography and the hydrographic survey indicates that the image compiled as the islet is in fact kelp. It has been removed from the final copy of the map.

# 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey was compiled from 1:50,000 scale photography. It is considered adequate for photo-hydro support use and nautical chart construction purposes.

Reviewed by:

Leo F. Beugnet Cartographer

Approyed:

Melvin J, Umbach, CDR NOAA

Chief, Photogrammetry Division, AMC

Approved:

Alired C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastall 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 aids 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 ozalids 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 Manuscripts; therefore, shoreline agreement is generally good.

kan perdaman terrapakti tertetak arandati berentetak berintak berintak berintak bilan berintak berintak ber Berintak berintak berintak berintak berintak berintak ini berintak berintak berintak berintak berintak berinta

Charles H. Bishop

Charles H. Bishop Cartographer January 1973

estical call the ester that it are the restrict attention and attention of the conjugation of the consequence.

	134°10′00″ 56°52′30″	09'30"	<b>09</b> '  x=2,590,000 FT.
0			
			. ( <u>5</u> ) ★
		COMPARISO	N PRINT
		Purple =	
		rurpie =	n=0900
	y=1.840.000 FT.		
	9-1,040,000 F1.		
		Eust	(10) ************************************
		GNAW 1965 ELECTION TO THE SHAPE OF THE SHAPE	· Co
		(mhz)	Esqui
	52'		Eug Eugenstein Francisco (Contraction of the Contraction of the Contra
+			50
			(8) ×3 (
0			£
	· •		3
	Towns of the second	7	(6) E reefs
	10 Jan 19		
	2	<u> </u>	(6) (3)
	Daga de la companya d	1	
	Arthur Man (3)		
	A STATE OF THE STA	Y	Eurup
		2	Constant of the constant of th
	51'30" reef	S	3 03
	U	8	
	* (3)	7	7
	y=1.835,000 FT.	8	(8)
			65-M-244
0		(7)	3) 4, 3
		*(2)	reet art #33
			reef E (3)
			T-/2/97
			110000