

U. S. COAS; & GEODETIC SURVEY LIBRARY AND ARCHIVES

OCT 14 1932

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DEPART	MENT	OF	COMMER	CE
U. S. CO	AST AND	GEOD	ETIC SURVEY	

State: T. Hawaii

# DESCRIPTIVE REPORT.

Topographic Sheet No. B 4684

LOCALITY:

Hawaiiun Islands

Lisianski Island

1947/

CHIEF OF PARTY

O.W. Swainson

DECLASSIFICATION BY NOAA

PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356

applied to chart 4183

Selv. 9, 1940 g.K.S. nov. 10, 1942 Lam.

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POST-OFFICE ADDRESS:

Honolulu, T. H.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Ship PIONEER, April 6, 1931.

To:

The Director,

U. S. Coast & Geodetic Survey,

Washington, D. C.

From:

The Commanding Officer,

U.S.C. & G.S.S. PIONEER

Subject:

Season's Report, 1930, Project No. 55.

Enclosed are some pictures which please place

in an envelope and attachato my season's report, previously

forwarded.

0. W. Swainson,

H. & G. Engineer,

Commanding PIONEER.

#### DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET B.

Lisianski Id.

Project No. 55.

Instructions dated Feb. 10, 1932.

U.S.C. & G.S.S. PIONEER

O. W. Swainson, Cmdg.

## GENERAL DESCRIPTION OF COAST

The shore line is sand nearly the entire circumference of the island except on the east side where there are rock ledges at the water line in two places for a total length of about one half mile.

The island is low and is visible only about ten miles and is grass covered. There is a sand spot near the top of the hill at the north end of the island which is visible from the north. This spot is surrounded by grass and is the most prominent feature of the island.

### LAND MARKS

There are no land marks.

#### CHARACTER OF CONTROL USED

A short base was measured with 30 meter tape from Lon to North Base and theodolite angles measured at Lon, North Base, Wag, and Pat to locate these four stations. Station Lon or Lisianski was located astronomically by Mr. E. O. Heaton. (This gave Geo. Pos. and Azimbih).

Only a short traverse from Lisianski to Cam to Gil was run. This closed with no error. The rest of the shoreline was located from setups at Lon, North Base, Wag and Pat.

#### DESCRIPTION OF AUXILIARY SURVEYING METHODS

The rocks shown north of the island were located by cuts from North Base and Wag. Two cuts being obtained to each. These spots are merely the parts of reefs that show above water.

#### CENERAL

Several small coconut and ironwood trees were planted with the hope that they would grow and thus aid the navigator in sighting the island. The island is extremely difficult to see at the present time.

## COMPARISON WITH PREVIOUS SURVEYS

The elevations as shown on the chart, H. O. No. 4, are in error. The highest elevation at present is near the northeast side and is only 20 feet instead of 44 feet as shown on No. 4.

The island has also filled in on the southeast point and is now longer than is shown on the chart.

The island is almost completely covered with grass at present.

### STATISTICS

Miles of shoreline - 3.0 statute miles.

Area

- 0.5 square statute miles.

d. J. Wagger,

Tr. H. & G. Engineer, U.S.C. & G.S.S. PIONEER.

Approved and forwarded:

O. W. Swainson,

H. & G.Engineer, Commanding PIONEER.

Astro, 5ta.

Eli abo

D Wag

A N. Base

A Pat

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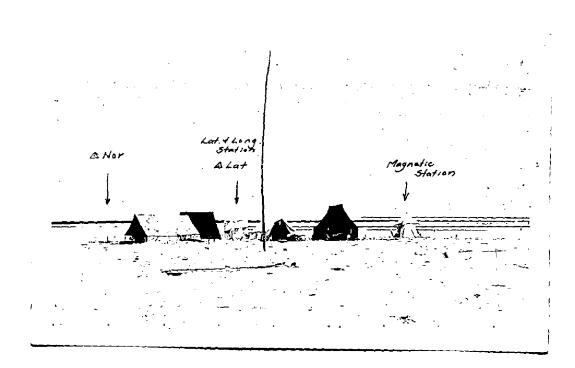
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## LIST OF PLANE TABLE POSITIONS.

Gil	26 <sup>0</sup>	04'	777.0
	173	58	656.0
Ray	26	04 .	906.0
	173	58	384.0

## PHOTOGRAPHS



Latitude, Longitude and Magnetic T.T. 1930. Laysan Island, T.H. 1930.

(Looking Northeast.)

Sea 184



Gird life on Laysan Island, T.H. 1930

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LISIANSKI Island , T.H.

A Jo in foreground.

Taken from point 12 miles West (7) of the Island.

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Guano east of A Lisianski.



Lisia and T. H.

The cocconut was planted near A Wag.

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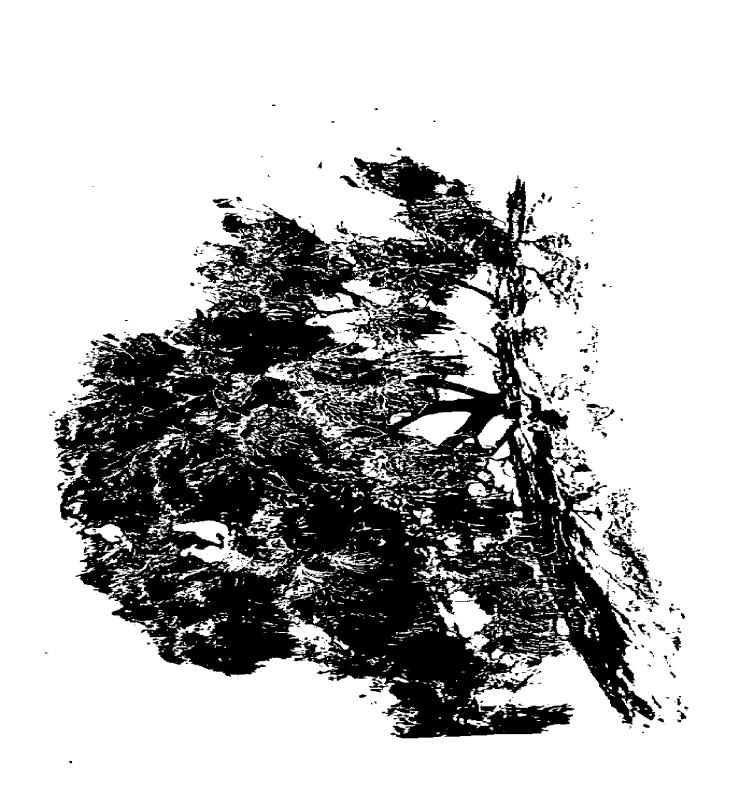
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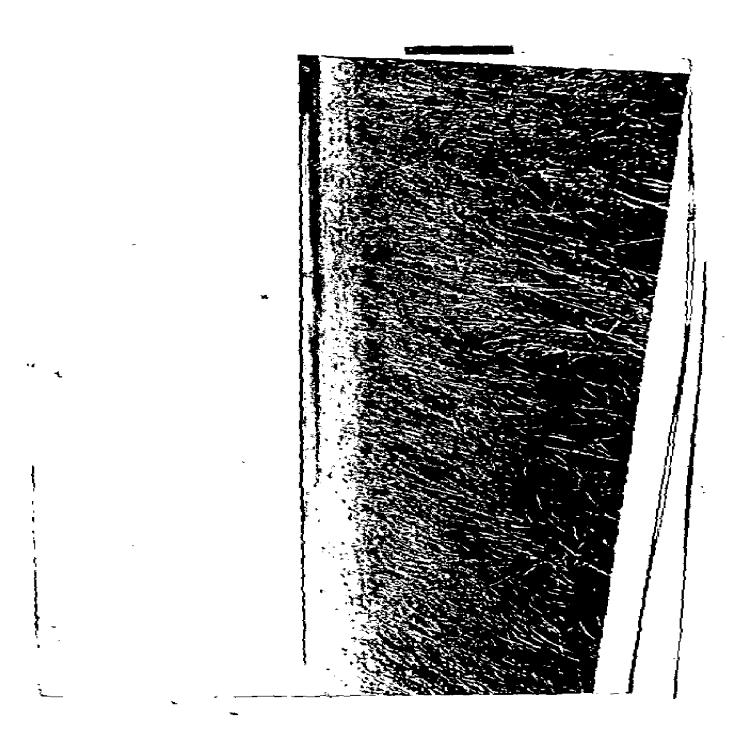
Gannets with their young (On Layson 75lond T.H.)

Sea. Ref



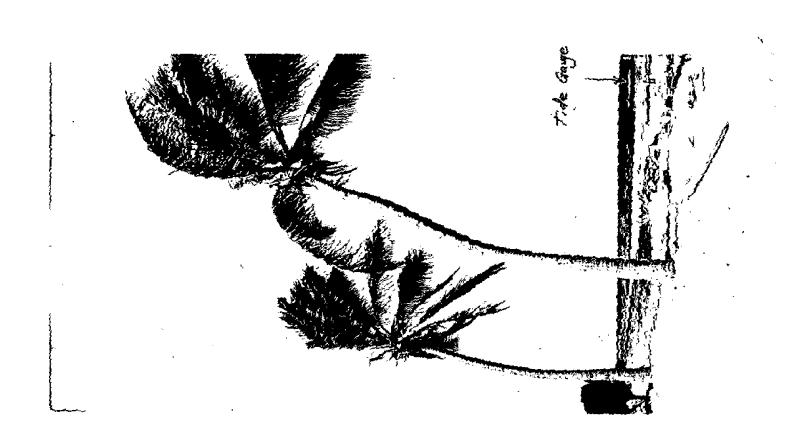
Gannets nesting in Ironwood tree on Laysan Island, T.H. 1930,

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Lisianski Island, T. H.

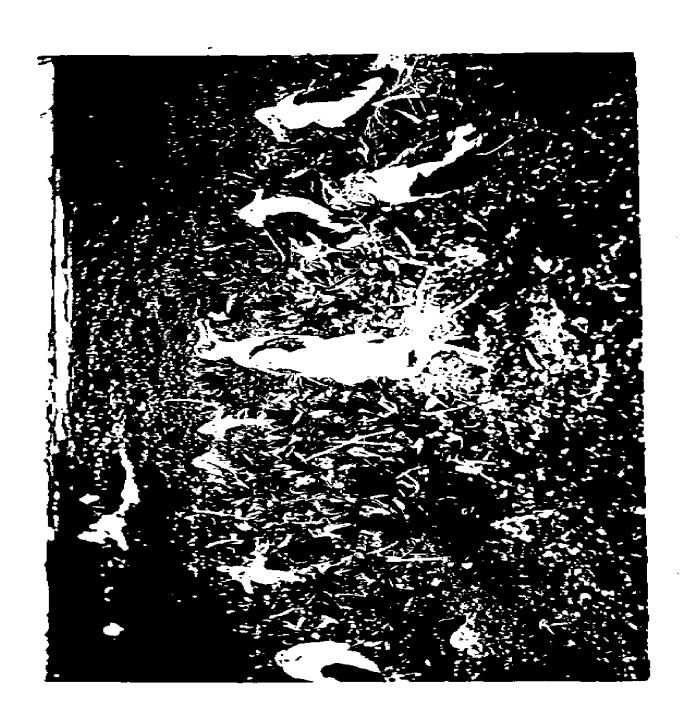
Looking W x S on Island from A Wag to A Lisianski.
Magnetic Tent at Lisianski can be seen under "\*"



. La 126.

(Looking Southwest.)

Only trees on Laysan Island. (Two cocoanuts and one ironwood.)



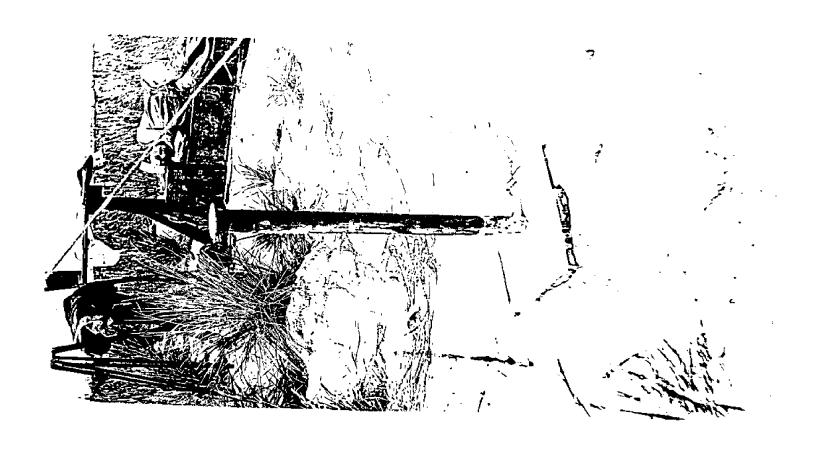
Young Frigate or Man-of war birds on Layson Island, T.H. 1930.



Latitude, Longitude and Magnetic Camp

Laysan Island, T. H. 1930

(Looking Northeast.)



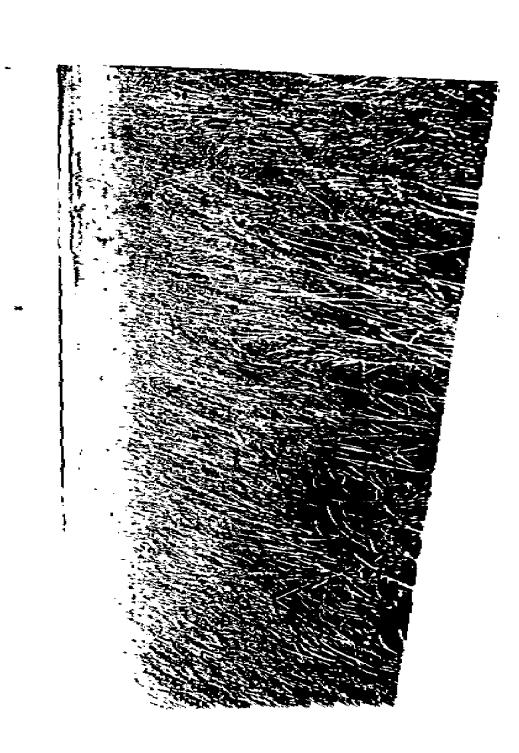
The permanent mark placed

on Lisianski 18, to mark tatitude, tengitude, and magnetic station. morked, tat, tong, 1931

and is at spot marked Bhisianski 1981. This type also placed on hayson Island. 4634

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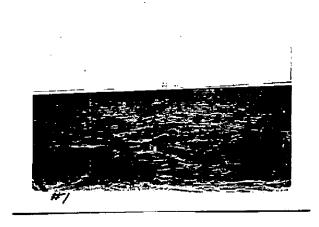
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Lisianski La, T.H.

Looking Las Dalsland from A Wag to
A hisjanski. Magnetic Tent at A Visianski

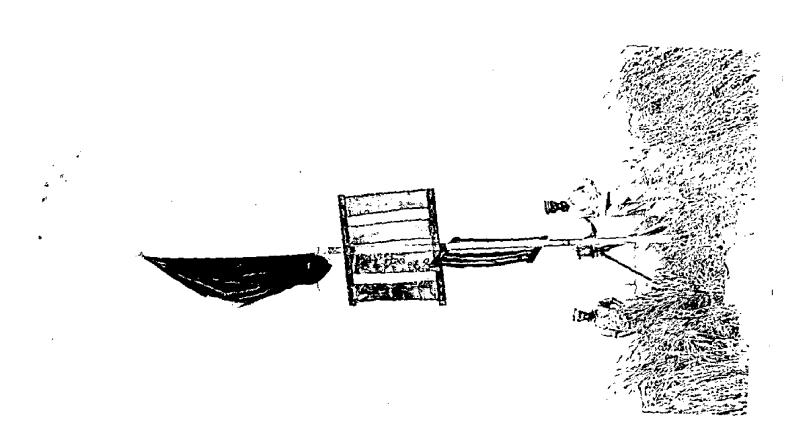
un be seen under \*;

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Westside of island from 2 miles offshore

Laysan Island, T. H.



Signal at A Wag and porty traking cats to buoys. (noth signal really vertical)

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7 V 9

REVIEW OF TOPOGRAPHIC SURVEY No. 4684

Title (Par. 56) Lisianski Island, Hawaiian Islands
Chief of Party Of Surveyed by C.J. Hagner Inked by C.J. M

Ship Cioneer Instructions dated tel. 10, 1930 Surveyed in aug. 1931

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. The control and closures of traverses were adequate. (Par. 12, 29.)
- 4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
- 5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.)
- 6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 10. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 11. Locations and elevations of summits are given. (Par. 19, 51.)
- 12. T<del>he tree line was shown on mountains. (</del>Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- The descriptive report also contains additional information required in aexo-topography relative to type of photographs, method of compi lation and type of ground control
- The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.)
- 16. Morlist of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) Desc. Rep. states no Landmarks exist. Ironwood and coconnections was shown and declination was checked. (Par.
- 17, 52.)
- The geographic datum of the sheet is disianski astro, 1931 and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate. No other surveys in ineuty.
- Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)
- The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. No additional surveying is recommended.
- The Chief of Party inspected and approved the sheet and the descriptive report after review by
- 24. Remarks:

Reviewed in office by R.J. Christman, June 6, 1933

Examined and approved:

eld Records

ude Chief, Division of Hyd. and Top.

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

## TOPOGRAPHIC TITLE SHEET

MANA

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. \_\_B\_\_\_\_

## REGISTER NO. 4684

State Territory of Hawaiian Is.
General locality Listenski Island
Locality Lisianski Island
Scale 1-10000 Date of survey August , 1921
Vessel U.S.C. & G.S.S. PIONEER
Chief of Party O. W. Swainson
Surveyed by C. J. Wagner
Inked by C. J. Wagner
Heights in feet above
Gantour, Approximate contour, Raxmxkins interval5feet
Instructions dated February 10 , 1930
Remarks: