### HOWLAND CLIMATE (DRAFT)

Wery few weather observations have been made on Howland Weather observations for Howland are limited but show a fairly but the few existing records indicate uniform climate with little seasonal change. The average annual temperafor years ( Ref ture and seasonal range has a negligible variation of less than five from \_ td \_ . The seasonal variage of temperature is also degrees. The sea water temperature as recorded by the USS Point Barrow in October, 1963, showed an average of 86 to 87 degrees F. which may be a factor in temperature stabilization. During that period the normal daily air temperature readings were in the 80's with a high of 90° and a low of 81° F. Recorded daily temperature variations on Howland have not exceeded xxx the 17 degree variation xxxxxxxx observed by Ramsey in September, 1924 I Slight seasonal variations are evident however with the hottest temperature occuring in September and the coldest during March. Recorded temperature extremes are 71° and 101° F. (AEC, 1963)

Howland is located in the south equatorial current zone where the currents are from east to west. Cloud cover is normally strato-cumulus with maximum cloud cover occuring from November to May.

Information on precipitation is scant and inconclusive. More data on this would be of particular value to the biologist for on Howland and other similar atolls just south of the equator one of the most important factors influencing the flora and fauna of the island is the extreme

<sup>1/</sup> The Uss Point Barrow and Ramsey were both in the Howland area during the month of October; the former in 1963 and the latter in 1924

fluctuation in rainfall from year to year. Sometimes more than a year may elapse with no rain at all. In other times more than the annual average may fall in one month. Under such conditions the general aspect is much drier than the average annual rainfall would suggest. And the luxuriance may vary so much that descriptions written several years apart scarcely sound as though the same island were described. On islands with large populations of seabirds the injurious effects of XXXXX high concentrations of guano seem to be greatly accentuated by these severe dry periods. Trees may be severely damaged or killed, as was the case with the Kou trees on Howland (Fosberg, 1953).

In commenting on this variability of rainfall in the South Pacific Seelye (1950) wrote that the annual rainfall is most variable along the western tongue of the equatorial dry zone, or Howland area, where the north-south rainfall gradient is steep. Thus comparatively small disturbances of the controlling atmospheric circulation from normal would be expected to produce spectacular changes there. Spectacular changes are indeed what we get from the few reports that are available on Howland's yearly rainfall. Ramsay (1924) of the Whippoorwill Expedition doubts that Howland has a mean annual precipitation of over 3 inches while Doran (1959) states that Howland's annual precipitation may be estimated at 25 inches. Knoch (1927) apparently had the right idea when he reported that the annual precipitation may vary as much as 24 inches from year to year. Much more data would be necessary before any definite average could be given, for with such anomalies it is understandable that even the ten year averages would differ greatly from each other. In particular the 1910-1919 average is pushed up by the two extraordinarily rainy

years 1914 and 1915 (Knoch, 1927)

The attempts at explanation concern themselves chiefly with the housend's low annual amount overall, which does not seem to fit khexkhe into the tropical rain belt at all. Woeikoff (1880) says on this point that the dividing line between the two trade winds is narrowest, but according to actual observations by Hague in 1862, the two trade winds must have no dividing line here and merge completely NXXX into each other. They Howland would thus belong year round to the low precipitation zone, particularly lacking mountains or other local conditions that might cause rain. In fact, the very flatness is credited by some with the actual ability to discourage rain. According to Hague's 1862 observations "a shower of rain approaching the island divided into two parts and passed by to the north and south, the cloud being split by the heated column of air that rises from the white coral sand.". Ellis(1937), Bryan(1942), and Ramsay(1924) also mention this phoenomenon. This would tend to explain the fact stated by Bryan and Hague that it usually rains at night on Howland if at all. POBSP observations have also noted this fact.

W. Koppen (1923) approaches the matter of rainfall variation in this region from the oceanographic facts. He says, "As an explanation we can deduce here only the strip of cold water which (probably sucked up from the depths by the strong westerly stream in the southeast trades) runs from the Galapagos along the equator almost, (but not quite) the these

islands. The great variability in amounts of rainfall may be conditioned by the shifting of cold-water and warm-water surfaces." Knoch(1927) and Wiens(1962) state that while the strikingly low annual average precipitation is surely connected with the temperature of the sea water, they do not consider that explanation satisfactory for the variations in precipitation, and relate this to wind direction and constancy instead.

Proof in the opposite direction for Howland's rainfall resulting from westerlies is furnished by the low precipitation years 1910,1916, and 1917. During those years no disturbances of the trades by westerlies recorded. (Knoch, 1927)

has not been able to reach any confirmed result, it should nevertheless show that any information, even that supported only by memory as in the above case, is of value due to the overall scarcity of meteorological information concerning Howland, and that certain data which could be gathered by the POBSP, such as wind direction, is of particular value.

It will be promising to devote greater attention to weather phoenomena in the Howland area for usually greater changes take place in the equatorial regions from year to year than we are in the habit of expecting (Knoch,1927) and according to our concepts of the coherence of the system of the Earth's atmosphere they must affect changes in other parts of the Earth as well.

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#### HOWLAND - CLIMATE

Only a limited number of weather observations have been made on Howland, however the few existing records do indicate a fairly uniform climate with little seasonal change except variation in amount of rainfall. Records of observations made during the 1935 to 1942 colonization and the 1943 to 1945 military occupation show Howland as having a mean annual temperature of 83° F with monthly means not more than 1° above or below. Slight seasonal variations in temperature do occur with the warmest temperatures in September (extreme mean maxima of 89° recorded then) and the coolest in March (when the extreme mean maxima of 86° was recorded; mean minima are always near 79° F). Extremes recorded are 101° and 71° F. (Pacific Missile Range publication, 1959)

Humidity readings are low generally but show a slight rise at night. (from 55 to 86, Ramsay, 1925)

The sea water temperature ranged between 86 and 87 degrees F during a four day period in October, 1963. (AEC, 1963)

Howland is located in the south equatorial current zone where the currents are from east to west. Cloud cover is most frequently stratocumulus with maximum clouds occuring from November to May. (AEC, 1963)

Information on precipitation is scant and inconclusive but available records do show the annual rainfall to be extremely variable (Knoch, 1927). Sometimes more than a year may elapse with little or no **EXECUTE** rain at all as in 1859-1860 (Hague, 1862). At other times more than the annual

average may fall in one month. Because of this variability the general aspect of the island is much drier than the average annual rainfall would suggest. The growth of the vegetation may vary so much that descriptions written several years apart may scarcely appear to refer to the same island.

In commenting on rainfall in the south Pacific, Seelye (1950) wrote that annual rainfall is most variable along the western tongue of the equatorial dry zone which has a steep north-south rainfall gradient. Thus comparatively small disturbances of the controlling atmospheric circulation would be expected to produce spectacular changes in that area. Pacific Project observations on Howland, which is in this area, indicate that this conjecture is correct. When rain does fall, it usually falls in torrential showers, and several inches may fall in a few hours. July and October, 1963, were very wet but there seems to have been little rainfall since that time, judging from the state of the vegetation.

Ramsay (1925) of the Whippoorwill Expedition doubts that Howland has a mean annual precipitation of over three inches, while a Pacific Missile Range publication states that Howland's annual precipitation may be estimated at twenty-five inches. Knoch (1927) apparently was more accurate when he simply stated that the annual precipitation may vary as much as twenty-four inches from year to year.

Attempts at explanation of this variability of rainfall concern themselves chiefly with Howland's low annual amount overall, which does not seem to fit into the tropical rain belt at all. Woeikoff in Knoch (1927) says on this point that the Howland area is the region where one assumes that the dividing line between the two trade winds is narrowest, but according

to actual observations by Mague in 1360, the two trade winds must have no dividing line here and merge completely into each other. Howland would thus belong year round to the low precipitation zone, particularly lacking mountains or other local conditions that might cause rain. In fact, the very flatness is credited by some with the actual ability to discourage rain. According to mague's 1860 observations, "A shower of rain approaching the lated divided into two parts and passed by to the north and south, the cloud being split by the heated column of air that rises from the white coral sand." Ellis(1937), Bryan(1942), and Ramsay(1924) also mention this phoenomenon. This would tend to explain the fact stated by Bryan and Mague that it usually rains at night on Mowland if at all. Pacific Project observations have also noted this fact.

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Howland is dominated by the Southeast trade winds with Easterly wonds prevailing most of the year. During the "winter"

period (from October to March) the winds are Northeasterly and during the "summer" period (from April to September) the winds tend to be more Southeasterly. While the Northeasterly winds have been credited with the wet season on Howland (Brooks, 1926) other later data indicates that the rains are more likely to 1 5 4 4 5 4 be caused by the occurance of Westerly and Northwesterly winds. The confusion here could have resulted from the fact that the infrequent Westerlies do-seem-to occur for the most past in the in the winter or Northeesterly season, for In all seconded instances of shipwrecks on Howland WYATTHETE winders caused by weather, squalls with Westerly or Northwesterly winds were cited. And it would seem from this data that Westerlies are most likely to occur during the winter months since 7 of the 9 shipwrecks occured during that period. Shipwrecks caused by Westerlies on nearby Baker Island also occured mainly during the winter.

Proof in the opposite direction for Howland's rainfall resulting from Westerlies is furnished by the low precipitation years
1910, 1916, and 1917. During those years no disturbances of the
trades by Westerlies were recorded. (Knoch, 1927)

Unfortunately only few, scattered remarks other than shipwreck information can be found in the literature that point to
these abnormal wind directions and thus no regular pattern is
known for sure. In view of KNAX the apparent great rarity of their
occurance it was a fortunate thing that at least one meterologically
interested observer has witnessed them over a period of many years.
Knoch states that a man who had lived for thirty years on the guano

islands of Malden, Howland, and Baker noted regularly stormy weather with Westerly winds once every ten years, which, he said, occured particularly during the winter months. This was true for example, he said, in 1867and 1868 for the Howland and Baker area.

Due to the overall scarcity of meterological information concerning Howland, any information, even that supported only by memory, as in the above case, is of value. Therefore certain data such as wind direction which could be gathered by the Pacific Project would be of particular value in an overall prefere weather picture of the Howland area. It should be especially promising to devote greater attention to weather phoenomena in this area for usually greater changes take place in the equatorial regions from year to year than we are in the habit of expecting (Knoch, 1927) and according to our concepts on the coherence of the system of the Earth's atmosphere they must affect changes in other parts of the Earth as well.

#### SHIPWRECKS \*\*\* HOWLAND

LIZZIE OAKFORD 25 Sept.1867 during a shift of wind from the eastward to the Westward

MONSOON 10 Jan. wind hauled from southease to southWest

ARNO OctoberAug.9th squallyknomythe/westward wrong navigation

EMERALD ISLE Oct. 3 squall from westward

MATAPAN Oct. 3 squall from westward

Mary Robinson June 28th heavy squall

HARRISON June 28th 1864 heavy squall

WHITE SWALLOW Oct. 5th violent squall

KATHAY Jan. 20th 1867 squall

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### Climate Outline

(1.	General.
(2)	Temperature
43.	Ocean Currents as affecting weather
4.	Winds, Storms
5.	Gloud Gover
(3).	Precipitation
7.	General comments by POOP
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Very few weather observations have been made on Howland but the
few exisiting records indicate a fairly uniform climate with
little seasonal change. ( )( ) x
The average annual temperature for years vaires less
than five degrees The year to year range in the annual temperature
is also slight. The minimum annual temperature range was from
degrees in to degrees in while the
maximum annual temperature range was from degrees in // degrees in
to degrees in
has been recorded on Howland was in and the
minimum was ;in
Slight seasonal variations in temperature do occur however,
with the warmest temperatures in Sept. (mean for years)
and the coolest in March (mean for years )
The sea water temperature ranged between 86 and 87 degrees
Fahrenheit during a four day period in October 1963. ( ////////)
(( If other records for sea water temperature occur put them here in a small paragraph comparing those results with those of the Point Barrow) ((If in the a bove paragraphs if you can not find
data for blank spaces then put in what data you have and state in what manner it is limited, time, duration, etc.)
Howland is located in the south equatorial current zone where
the current are from east to west. Gloud cover is frequently
strato-cumulus with maximum cloud occurring from November to May. ((Expand-cloud cover somewhat)) Information on precipitation is scant and inconclusive,
but the annual rainfall is extremely variable (
Sometimes more than a year may elapse with no rain at all as

At other times more than the annual average may fall in one month. Because of this variability the general aspect of the island is much drier than the average annual rainfall would suggest. The growth of the vegetation may vary so much that descriptions written several years apart may scarcely appear to refer to the same island.

In commenting on this wastern tables of rainfall in the South Pacific, Seelye (1950) wrote that the annual rainfall is most variable along the western tongue of the equatorial dry zone (international content of the equatorial dry zone (international content of the controlling atmospheric circulation which has a steep north-south rainfall gradient. Thus comparatively small disturbances of the controlling atmospheric circulation would be expected to produce spectacular changes in that area. Pacific Project observations on Howland Control Project observations on Howland Control Project observations, which is in this area, indicate that this conjecture is correct. When rain does fall, it usually falls in torrential showers, and several inches may fall in a few hours. July and October, 1963 were very wet and the Fall of the content of the regetation.

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Weather observations for Howland are limited but show a fairly uniform climate with little seasonal waxiation change. The average annual temperature and seasonal range has a negligible variation of less than five degrees.

The water temperature as recorded by the NN USS Point
Barrow in October, 1963, showed an average of 86-87 degrees F.

which may be a factor in temperature stabilization (ALO,1963).

During that period the normal daily air temperature readings were in the 80"s with a high of 90 degrees and a low of 81 degrees F.

Slight seasonal variations are evident however with the hottest temperature occurring in September and the coldest during March.

Recorded temperature extremes are 71° and 101° F. (AEC, 1963)

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Informedier on Precipitation and Interest on the search would be of particular traductors.

On Howland and other similar atolls just south of the equator one of the most potent factors in influencing the flora and fauna of the island is the extreme fluctuation in rainfall from year to year. Sometimes more than a year may elapse with no rain at at all. In other times more than the average annual average may fall in one month. Under such conditions the general aspect is much drier than than the average annual rainfall would suggest. And the luxuriance may vary so much that discriptions written severa val years apart scarcely sound as though the same island were described. On islands with large populations of sea birds the injurious effects of high con zem centrations of guano seem to be greatly accentuated by these severe dry periods. Trees may be severely damaged or killed, as was the case with the Kou trees. on Howland. (Fosberg, 1953)

In commenting on the variability of rainfall in the south cacific.

Seelye (1950, p.12) wrote that the annual rainfall is most variable along the western tongue of the equatorial dry zone, where the north-south rainfall gradient is steep. Thus comparatively small disturbances of the controlling atmospheric circulation from normal would be expected to produce spectacular changes there.

and spectactular changes are indeed what we get from the few reports that are available problemly and yearly rainfall. Pamsay (1935) of the Whipperwhile Englished doubte that Howland has a mean annual precipitation of over 3 inches Doran (1959) states thank Howland annual precipitation may be extinueled at 25 inchez. Anoch (1927) apparently had the right idee when he reported that the annual precipitation may very as much as 24 inches from year to year. Much more data would be necessing before any definite average wild be given for

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Henn ( ) in his equatorial studies gave data that afforded a very good picture of the striking variations in precipitation that take place near the equator.

The range of variation in amounts has greatly increased since. Knoch (1927) reports annual variation of 24 inches.

With such anomalies it is understandable that even the ten-year averages would differ greatly from each other. In particular the 1910-1919 average is pushed up by the two extraordinarily rainy years 1914 and 1915.

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at all. Recent Por absence have also confirmed the.

Ramsay (1925) doubts that Howland has a mean annual term precipitation of over 77 mm.

Brooks, 1926) states that there is a relationship between the rainfall on an island such as Howland and the direction and steadiness of the wind. Studies in the equatorial Pacific show that on several of these isla islands (Malden, Ocean) there was the same extraordinary dryness with winds from the east or southeast compared with those of other directions. The apparent dryness of the winds from the east or south east is due to the their greater consistency constancy, for the greatest source of rain is to be found in winds of conflicting directions.

W. Koppen ( ) approaches the matter from the oceanographic facts.

He says, "As an explanation we can deduce here only the strip of cold wa water which (probably sucked up from the depths by the strong westerly stream in the southeast trades) runs from the Galapagos along the equator almost (but not quite) to these islands. The great variability in amounts of rainfall may be conditioned by the shifting of WAME cold-

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#### CURRENTS

Howland is located in the south equatorial current zone where the currents are from east to west. And Cloud cover is normally strato-cumulus maximum cloud cover occuring be from November to May.

Howland is domonated by the South East Trade Winds with easterly winds prevailing most of the year. During the "winter" or October to March period the winds are northeaster ly and from April to september, o or during the "summer", the winds tend to be more southeasterly. While the northeasterly winds have been credited with the cause of the wet se season Howland, latter data proves that the rains are more likely to be caused by the infrequent occurance of W and NW winds. In all recorded instances of shipwrecks (coused by weater) obtainable (WPA) squesqualls from the shipwreck data that westerlies are most likely to occur in the Howland area during the winter, since 7 of the 9 shipwrecks occur ed during the period from The last part of sep. through January, and the shipwrecks caused by westwelies on nearby Baker I also occured during this period.

The proof in the opposite direction is furnished by the low precita tion years 1910, 1916, and 1917. During those years no disturbances of th the trades by westerlies was recorded.

Unfortunately only few, scattered remarks other than ship info can be found in the literature that point to these abnormal wind directions and thus no regular pattern is known. In view of the great rarity of their occurance it was a fortunate stroke of chance that at least one meterorologically interested observer has witnessed them over a periperiod of many years. In the sailing manual for the Pacific ocean, 1897 edition, there is the statement of a factor who had lived for the

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thirty years on the guano islands to the effect that on Maulden, Howland, and Baker Islands once every ten years, regularly, stormy weather with westerly winds is to be expected, which he said occ urred particularly during the monthe Nov. through March. This was true for example, he said in 1867-68 for Baker and Howland.

Although

Although the foregoing discussion has not been able to reach any confirmed result, it should nevertheless show that any information, even that supported only by memory(as in the above case) is of value due to overall the scarcity of meteorological information concerning Howland, and that certain data gathered by the Project, wind direction in particular, is of the content of the project, wind direction in particular, is of the content of

It will be promising to devote great attention to phenomena

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year to year than we are generally in the habit of expecting, and according
to our concepts of the coherence of the system of movement of the earth's

atmosphere they must affect changes in other parts of the earth as well.

(Knock 1997)

### UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU July 9, 1965 FILE: C-5.2132 (Job 1471) NATIONAL WEATHER RECORDS CENTER FEDERAL BUILDING ASHEVILLE, NORTH CAROLINA 28801

Reference: Your telephone call 6/18/65 and our letter C-5.21, 6/23/65

Miss Tina Abbott Pacific Project-Department of Birds Smithsonian Institution Washington, D. C.

Dear Miss Abbott:

IN REPLY REFER TO

We are forwarding, by separate mail, 2 reels of 35mm microfilm copy of the Code Sheets - 1130 Aer. for Howland Island for the period beginning April 1935 through November 1941. Enclosed is a reference manual which contains the key to the de-coding of the data as entered on the microfilmed code sheets.

Stations other than requested also appear on these reels.

Sincerely yours,

William H. Haggar Acting Director

Enclosure Separate cover

Division of Birds August 24, 1965

William H. Haggard
Acting Director
National Weather Records Center
Federal Building
Asheville, North Carolina

Dear Mr. Haggard:

Thank you for the weather data on microfilm of Howland Island which we have just recieved from you.

We are now working on reports of the following islands and need what ever weather data you may have on them. As it takes us some time to get the data in usable form and our reports are being rushed, we would appreciate having this as soon as possible.

The following are the Pacific islands for which we need weather data:

Phoenis Islands	Line Islands	Baker Island
McKean	Jarvis	
Canton	Falluv ro.	
Enderbury	Washington	Havailan Islands
Birnie	Fanning	Midway
Phoenix	Christmas	
Sydney	Malden	Pearl and Hermes
Mull	Starbuck	
Gerdner		

Sincerely yours,

Tina C. Abbott Research Illustrator

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### CODE SHEET FOR FORM 1130-AER.

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# CODE SHEET FOR FORM 1130-AER. 1937 MONTHS SEP 1937!

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CODE SHEET FOR FORM 1130-AER. march - September 1937. X100 wland I sland CEILING
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