400789

PROPOSED BIOLOGICAL RESURVEY OF RONGELAP ATOLL DURING MARCH 1963

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TENTATIVE SCHEDULE

APPROX. DATE March	
~~15~~	SEATTLE-HONOLULU (Commercial)
16	HONOLULU
~~17~~	HONOLULU - KWAJALEIN (MATS)
18	KWAJALEIN - RONGELAP I., RONGELAP ATOLL (via UF-1) (If possible schedule arrival at Rongelap by noon)
19	RONGELAP I.
20	AM RONGELAP I. PM RONGELAP I. - WEOBIJI I. - ENIAETOK I. (via local sailboat)
21	ENIAETOK - KABELLE I. (via local sailboat) (depart Eniaetok no later than 0800)
22	KABELLE I. (overflight from Kwajalein to determine all well)
23	KABELLE I.
24	KABELLE I. - RONGELAP I. (via local sailboat)
25	RONGELAP I. - KWAJALEIN (via UF-1) (if possible schedule departure from Rongelap at 1300)
26*	KWAJALEIN - MAJURO
27*	MAJURO
28*	MAJURO - KWAJALEIN
29	KWAJALEIN - HONOLULU (MATS)
30	HONOLULU
31	HONOLULU - SEATTLE (Commercial)

EH 13 MAR ~1800
SG+RW 14 MAR ~1800
PAN AM confirmed

16 MAR 2200 confirmed

*Note: If necessary collections could be made on a tight schedule arriving at Majuro the morning of March 26 and departing the afternoon of March 27.

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MATS FLIGHTS REQUIRED

(Dates based on tentative schedule)

1. 17 March — Hickam - Kwajalein

   4 men
   1000 lbs equipment, supplies, and personal gear.

2. 29 March — Kwajalein - Hickam

   4 men
   600 lbs equipment, samples and personal gear.

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FLIGHTS REQUIRED FROM KWAJALEIN

(Dates based on tentative schedule)

1. 18 March — To Rongelap I. Rongelap Atoll
   4 men
   approx. 1000 lbs equipment and supplies.
   Schedule flight to arrive at Rongelap by 1200 if possible.

2. 21 March — Overflight of Kabelle I. Rongelap Atoll to determine all well.

3. 25 March — Pick up at Rongelap I. Rongelap Atoll.
   4 men
   approx. 700 lbs equipment and samples.

4*. 26 March — To Majuro
   4 men
   approx. 300 lbs equipment and supplies.

5*. 28 March — Pickup at Majuro
   4 men
   approx. 300 lbs equipment and samples.

*Note: If necessary collections could be made on a tight schedule of arrival at Majuro the morning of March 26 and departing the afternoon of March 27.

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ITEMS TO BE OBTAINED IN HONOLULU OR AT KWAJALEIN

1. FIELD RATIONS - 140 meals
   C-rations, K-rations or similar types.
   (Notes: No refrigeration will be available. Any cooking will have to be done over an open fire. The number of meals includes rations for 4-man native crew at Kabelle I.).

2. RICE - 50 lbs

3. FRUIT JUICE - 2 cases #10 cans.
   (Note: items 2 and 3 will be purchased in Honolulu by field party if not readily available at Kwajalein.

4. FIRST AID KIT (LOAN BASIS) adequate for 4 men to be without access to medical aid for 6 days.
   (Note: The work requires digging pits in the soil, and wading and swimming over the reefs, consequently abrasions occur frequently).

5. GROUND TO AIR SIGNAL FLARES (LOAN BASIS)

6. GROUND TO AIR SIGNAL CLOTH (LOAN BASIS)

ITEM NEEDED ON DEPARTURE FROM HICKAM

200 lbs dry ice in MISI BAGS (Misi bags to be returned on return to Hickam)

ITEM NEEDED ON ARRIVAL AT HICKAM FROM KWAJALEIN

25 lbs dry ice.

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FACILITIES AND SERVICES REQUIRED AT KWAJALEIN

(Dates based on tentative schedule)

1. Storage space, secured, lighted, dry, of approx. 100 square feet for use on the following dates:
   17-18 March
   25-29 March

   (Note: One of the hotel rooms would be adequate)

2. Transportation - pick-up truck or equivalent for hauling equipment, supplies and samples on the following days: 17-18, 25-26, 28-29 March.

3. Reefer Space - approx. 12 cu. ft. - zero degrees F. if available but must be below 32°F. Will be needed 25-29 March inclusive.
   (Note: all samples will be individually sealed in plastic bags and packed in chests).

4. Quarters and rations
   4 men on the following nights:

   17, 25, 28 March

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OBJECTIVES

1. AT RONGELAP I.

   A. COLLECTIONS
      1. Food items

         a. Village Area
            1) Ripe coconuts from or adjacent to marked trees
            2) Pandanus fruit from marked trees
            3) Breadfruit from marked trees
            4) Papaya from area behind council house
            5) Squash where available
            6) Goatfish - gillnet

         b. Pit 1 area Pandanus fruit

         c. Pit 22 area
            1) Pandanus fruit
            2) Tacca corms

      2. Soils
         a) Pit 1 by 1' increments to 10
         b) Pit 22

      3. Insects - repeat collections of 1961 w/emphasis on termites and termite damage

   B. Observations and Photographs
      1. Pit 22 Fertilizer Plots
      2. Coconut hole fertilizations
      3. Coconut seedlings (Bwio's plantings)
      4. Note new clearings and plantings
      5. Check water level in depression area

   C. Refertilization of plots where indicated by current results.

   D. Earmark suckling pig and arrange for its purchase in August 1963 for Sr^{90} and Cs^{137} analyses.

   E. Measurement of marked plants at weather station <u>if time permits</u>.

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II. AT WEOBIJI I. (Island 48)

A. Observations and Photographs of fertilizer plots and adjoining areas.

B. Establish new fertilizer plot.

C. Insects
1) observe damage.
2) collect - especially lepidoptera larvae.

III. ENIAETOK I.

A. Collections
1) Pandanus fruit (from pits 10 and 11 if possible).
2) Lawrencia from seaward reef.

IV. KABELLE I.

A. Collections

1. Food items

a. Pandanus (Pit 7 area if possible).
b. Ripe coconuts (Pit 7 - cistern area).
c. Fairy terns (5).
d. Curlews (2).
e. Tridacna (3 of one species).

2. Guano (pit 4 and 38 areas).

3. Soils
a. Pit 4 by 1" increments to 10"
b. " 6 " " " "
c. Algal crust from pit 6 area.
d. Algal crust from sides of main trench.
e. Wash areas Messerschmidea area - 1" increments to 10".

B. Observations and photographs
1. Pit 38 fertilizer plots.
2. Wash area " "
3. Cistern area " "
4. Wash area seedlings.
5. Previously marked individual trees and shrubs.
6. General condition of corals in channel area.

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V. MAJURO

A. Collections for comparison with Rongelap samples.

1. Pandanus fruit (5)
2. Birds
   a. Fairy terns (5)
   b. Curlews (2)
3. Guano
4. Soils by 1" increments to 10" (number of samples to be determined).
5. Tridacna (5 of same species collected at Kabelle if possible).
6. Birgus (substitute Coenobita if necessary).

B. Discuss arrangements for August 1953 field trip with District Commissioner.

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