

PROGRAM

MARCH, 1959

SAMPLES TO BE COLLECTED AT RONGELAP ATOLL FOR
RADIATION MONITORING FEBRUARY - MARCH 1959.

LAND PLANTS - Rongelap, Eniaetok and Kabelle Islands.

A. Resampling of plants previously collected at all plots.

B. Special collections for radiochemical analysis - large samples (several pounds dry weight) of each of the following will be obtained from Rongelap Island if possible. These samples will be dried, ground and mixed so that aliquots can be taken for cross checks by other laboratories if there is the opportunity to do so.

1. Coconut meat
2. Tacca - washed unpeeled tubers (these should be near peak for harvesting in March).
3. Pandanus fruit
4. Papaya fruit - peeled, without seeds. (Young trees were beginning to bear in August 1958 and a limited number of fruit should be available in March).

FISH - Rongelap Island only.

A. Liver and muscle from tuna, carangids and other fish caught by trolling.

B. Reef fish collections will be limited to two to four families with contrasting food habits (probably surgeon fish and goatfish). The emphasis will be placed on differences which may be dependent on habit or age within a species.

INVERTEBRATES

A. Coconut Crabs will be collected at Kabelle Island only (they are becoming scarce at Rongelap and Eniaetok but will be collected there next summer if possible).

B. Clams will be collected at Rongelap or nearby islands only.

C. Sea cucumbers will be collected at Rongelap, Eniaetok and Kabelle Islands

ALGAE - Will be collected at Rongelap Island only in conjunction with reef fish collections.

BIRDS

- A. Five Noddy Terns will be taken at Kabelle.
- B. Guano will be collected at Kabelle.

RATS - As many rats as possible will be collected at Rongelap. Tissues will be pooled by approximate age groups.'

SOILS

- A. Composite sample of top inch from Rongelap, Eniaetok and Kabelle Islands.
- B. Resampling of 1" increments to depths of six to nine inches at plots 1 and 4 (Rongelap and Kabelle Islands).
- C. Random composite sample 0-6" from fertilizer plots which will be established.

LYSIMETERS

- A. As many leachates as possible will be collected from lysimeters established in August.
- B. No new lysimeters will be installed but some will probably need to be reestablished.

SURVEY METER READINGS

- A. Will be repeated at same locations as in March and August 1958.
- B. Locations will be plotted on base maps.

FILM BADGES

Depending on the possibility of a cooperative arrangement with Radsafe personnel at Eniwetok, it is hoped to place film badges at various locations on Rongelap Island. Some badges to be left in place until next summer if the stability of the badges permits.

PREPARED FOOD SAMPLES

This is understood to be the responsibility of the medical group. University of Washington group will cooperate where desired and possible.