

CORAL ATOLL PROJECT ARNO ATOLL
SUMMER 1950

Purpose: To evaluate, both qualitatively and quantitatively, the physical conditions and economic resources of a coral atoll environment, as to their inter relationships with each other and with the human component; the present utilization of natural resources by human agency; the capacity of the physical environment to support an increase in population; the modification of existing practices and condition; the practices and conditions as required to effect maximum use of atoll resources; and the physical, cultural, and social problems involved in such modification.

Proposed schedule for investigation (anthropology and geography): It is obvious that throughout this schedule there is considerable overlapping of interests of the anthropologist and geographer, as well as of the zoologist, botanist, entomologist, geologist, etc. The emphasis in this schedule is however, that of the anthropologist-geographer who should cooperate closely with representatives of other disciplines in order to effect a truly integrated approach to the problem

A. Geographic factors.

Location; geology; landforms; water supply; weather and climate; soils; mineral resources; vegetation; land fauna; marine fauna.

B. Population factors.

Number and distribution of population by; age, sex, race, marital status, and number of children; residence and place of birth; lineage, clan and social rank; education; religion.

C. Population movement.

Immigration and emigration; travel within the atoll and between Arno and other Marshall Atolls.

D. Health factors.

Morbidity, mortality, birth statistics.

Preventive medicine, public health, medical service and personnel

E. Kinship organization.

Family, lineage, and clan; dependency; patterns of hospitality.

F. Occupational organization.

Associations; cooperatives; cooperation and group participation.

G. Territorial organization.

Hamlet, district, and atoll; council, chief, and other officials.

Methods of social control; law and justice; public finance, taxation.

H. Rank and status systems.

Social hierarchies based on birth, wealth, personality, education.

I. Religious practices and beliefs pertinent to economic production.

J. Subsistence requirements.

Annual cycle of economic activities.

Acquisition of food (fishing techniques; agricultural production; care of domesticated animals; imported foods).

Distribution of food resources.

Preparation and preservation of foods.

Eating (diet, quantities of food consumed, meals).

Clothing and accessories (sources, laundering, use, repair).

Capital goods (tools, implements, utensils, machines, apparatus; vehicles water craft).

Buildings (types, plans, materials, construction; maintenance; lighting; furnishings).

Transportation and communication.

Distribution of trade goods (marketing, wholesale and retail; weights and measures; medium of exchange; warehousing; transport).

K. Commercial enterprises.

Copra (cultivation, processing, marketing, warehousing, transport).

Handicraft (fiber, wood, stone, shell, dyes).

Services (transport, bakeries, barbering, etc.).

Finance (accounting, credit, savings and investments).

L. Labor.

Categories of labor, availability, conditions of employment.

Specialization by age, sex, rank, and occupation.

M. Property.

Types of property; ownership and inheritance; borrowing and lending, purchase and sale, rent and lease, alienation by gift; price and value.

Land titles and claims; administration of real property; tribute and taxation.

N. Education.

Skills to be transmitted; techniques of education, both Marshallese and American; student motivation; teacher personnel and training. Relation of educational program to economic needs of the community.

Maps.

It is proposed that the following maps will be useful in the final report.

- A. Location of Arno Atoll within the Marshalls and eastern Micronesia.
- B. Windflow in the Marshall Is. (from the lit.).
- C. Isotherms in the M. Is. do.
- D. Rainfall in the M. Is. do.
- E. Identification of islands, districts, and other geographic locations in Arno Atoll.
- F. Geologic character of Arno Atoll.
- G. Soils of Arno Atoll.
- H. Vegetation of Arno Atoll.
- I. Land use (crop lands) on Arno.
- J. Fishing areas (quantitative distribution of marine products) at Arno.
- K. Population distrib. on Arno Atoll (dot map).
- L. Frequency and routes of population movement (Arno and outside).
- M. Land holdings, distribution of buildings, roads, and trails on Arno.
- N. Representative plans of Arno farmsteads.