

reactions to heat, cold, and altitude; nutritional status; and other relevant demographic, genetic, medical, and behavioral factors.

Early attention must be given to development of instrumentation suitable for use in studies of human populations. It is essential that serious consideration be given to the cost-effectiveness of all instrumentation. Equally important in the planning is the matter of logistics.

It is essential for understanding human adaptability that there be more experimentation on human volunteers. Wherever human experimentation is the method chosen, the projects must be consistent with the ethical codes governing the experimental use of human subjects (e.g., Declaration of Helsinki. Recommendations guiding doctors in clinical research adopted by the World Medical Association in 1964; population genetics in primitive groups. WMO Tech Report No. 32, 1964) and fulfill the conditions stated in PPO #129 (dated July 1, 1966) from the Surgeon General of the U. S. Public Health Service.

RESEARCH DESIGN

The details of each investigation should be designed to sort out the key aspects of interest to the several regional groups. The size of the populations chosen for study should be appropriate to the nature of each problem. Site selection should be made in collaboration with the IBP Subcommittee on Conservation of Ecosystems. Attention must be given to details of recording observations and storing and processing information. Provision should also be made for storing human biological materials in appropriate banks, (e.g., sera and other body fluids) for future immunological or genetic study. Where appropriate, the storage should be coordinated with WHO and with the IBP Subcommittee on Use and Management of Biological Resources.

A broad overriding consideration is that, where feasible, the research design for human adaptability should be integrated with broader planning for the IBP.

TRAINING

In order to accomplish the research proposed in this program, it will be necessary to involve not only seasoned investigators but also graduate students aspiring to become human biologists or human