

represents the Subcommittee on Productivity of Marine Communities and will cooperate on this project.

3. Control of Insects by Plants and of Plants by Other Plants

Objective: To study the mechanisms of chemical interactions between organisms, emphasizing the control of insects by plants, and of plants by other plants.

Program: Implication of terpenoids in both kinds of control requires that entomologists and botanists work together to identify mechanisms and to develop methods of biological control of pests. Dr. E. F. Knipling (USDA) and Dr. Cornelius Muller, University of California, Santa Barbara, will organize a working conference to be held at the University of California in 1968. The Subcommittees on Systematics and Biogeography, and Productivity of Terrestrial Communities will be involved.

4. Biological Control of Pest, Insects and other Organisms

Objective: To promote ecological management as a principal method of pest control, with emphasis on the use of predators, parasites, and pathogens.

Program: While somewhat related to the developing program above on control of insects by plants, this investigation will emphasize the optimal use of other natural enemies of pest organisms. Control methods studied will include the various forms of habitat management or modification, use of resistant hosts, autocidal methods, use of lures and repellents, and competitive displacement. Establishment of a training center for Biological Control at the University of California has been proposed for purposes of the IBP and would be an important supporting element of both programs. A number of active proposals supporting the above objective have been approved by the IBP.

5. Adaptive Processes of Hybrid Populations

Objective: To undertake with Japan a joint study of the ecology of hybrid populations.

Program: This program has been defined in preliminary terms. Professor S. Kondo (HA/Japan) will visit Madison, Wisconsin in the Spring of 1968. At that time a meeting will be called by Dr. W. S. Laughlin, University of Wisconsin, to discuss the feasibility of a program on US/Japanese population groups