

October 7, 1969

Alternatives

1. USC-GARP Plan for U. S. Participation.

Use as is except that dates are later because of the time required for development and procurement of necessary equipment.

2. a. Do the CAT, Land Convection and Boundary Layer, Tropical Cloud Cluster, Pacific Test and Numerical Modelling and Simulation experiments as proposed in Alternative 1 (eliminates the Trade Wind Inversion, Air Mass Modification and Popcorn Cumulonimbus experiments).

b. Same as 2a except that Tropical Cloud Cluster experiment is conducted concurrently with the System Test in the Atlantic and available geosynchronous and polar orbiting satellites are used (no dedicated-satellite procurement).

c. Same as 2b except conduct the Tropical Cloud Cluster experiment and System Test in the tropical Eastern Pacific (no dedicated-satellite procurement).

3. a. Do the Numerical Modelling and Simulation, Tropical Cloud Cluster and Pacific Test experiments as proposed in Alternative 1 (eliminates the CAT, Trade Wind Inversion, Air Mass Modification, Land

Land Convection and Boundary Layer and Popcorn Cumulonimbus experiments).

Moderately Expensively

inexpensive

- b. Same as 3a except that Tropical Cloud Cluster experiment is conducted concurrently with the System Test in the Atlantic and available geosynchronous and polar orbiting satellites are used (no dedicated satellite procurement).
 - c. Same as 3b except conduct the Tropical Cloud Cluster experiment and System Test in the tropical Eastern Pacific (no dedicated-satellite procurement).
- 4.
- a. Do the Numerical Modelling and Simulation and the Tropical Cloud Cluster experiments as proposed in Alternative 1.
 - b. Same as 4a except the Tropical Cloud Cluster experiment is conducted in the Atlantic (no dedicated-satellite procurement).
 - c. Same as 4a except the Tropical Cloud Cluster experiment is conducted in the tropical Eastern Pacific (no dedicated-satellite procurement).
5. Do none of the above.

Note: It is recognized that by changing any one of a number of our assumptions, e.g. acceptance of less reliability from certain equipment or platform, therefore, making it available earlier, we could open up a Pandora's box of alternatives. In arriving at assumptions and estimates we must use our best judgment and must rely on experience, including that gained in BOMEX.