OCEANS VALIDATION

FNCTN: DEFINE ACCURACY OF GLOBAL PRODUCTS /PIXEL/TIME

APPROACH: ① BUILD ON SEAWIFS, AVHRR PROGRAMS

② INTERNATIONAL FRAMEWORK

③ SENSOR INTERCOMPARISON, MERGING for BIOLOGICAL INVESTIGATIONS OF OCEAN SYSTEMS

SIMBIOS

PLAN DUE MAY 17 1995

④ MODIS PLAN IN DRAFT FORM
F. HOGE

⑤ MULTI AGENCY, COUNTRY

OCEAN VALIDATION

IMPLEMENTATION

- FIXED SITES, TIME SERIES
  - NASA FUNDED - MOBY
  - NSF - HOTS BATS LTER
- FOCUSED FIELD STUDIES
  - REGIONALLY IMPORTANT PROBLEMS
    - HIGH LAT.
    - DUST, Aerosol types
    - BIOGEOGRAPHIC REGIONS
- INITIALIZATION CRUISES
- OPPORTUNISTIC, BUOYS
  - DRIFTERS
- JOINT ACTIVITIES WITH JGOFS, ONR, DOE, INTERNATIONAL STUDIES

PROBLEMS

1. INTEGRATION / FUNDING
   * EOS LEAD ON MAIN FACILITIES: AERONET THAT SERVE SEVERAL INSTRUMENTS
   * CENTRAL DATA STORAGE · HANDLING
   * CALIBRATIONS

2. INTERNATIONAL COOPERATION
   * ACCESS TO DATA SETS
   * COORDINATION WITH VALIDATIONS
   * FIELD EXPERIMENTS IN DIFFERENT ECOSYSTEMS

3. FACILITIES, INFRASTRUCTURE:
   * AERONET
   * AIR BORNE SPECTROMETER, SIMULATOR
   * CALIBRATION

4 FIELD EXPERIMENTS
   * ORGANIZING AND FUNDING THE INFRASTRUCTURE OF FOREIGN INTERDISCIPLINARY EXPERIMENTS

Terminology

Build on the Ocean Validation Initiative

- instrument characterization
- calibration
- vicarious calibration

- *algorithm validation (pre - launch inc. simulation)*

- product qa / qc (inc. quality flags)
- *data product validation* *
  "determine the spatial and temporal error fields associated with the biological or geophysical product"

- verification

* what is acceptable to the PI and by the user community and what is affordable.