

SeaWiFS Status Report

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September 29, 1993

Esaias
(15)

Overall

Launch date of July 22, 1994 for WTR is holding.

Necessary for support of JGOFS Arabian Sea Study.
Project predicts it will be close.

Larger batteries (10 amp hr vice 6 amp hr).

No longer the first EP launch.

TOMS, Orbcom launch earlier.

L-1011 testing continuing.

OSC ground station has progressed significantly.

Second SeaWiFS Science Team Meeting planning:

March 14-18, 1994 near Goddard.

Focus on algorithms, software use, validation, DAAC.

Poster sessions for Team Members and Project Elements
(in Bldg 28 Atrium).

Bright Target Recovery & Ghosting

Contract Modification complete August 27.

Sensor modifications & cloud flags:

- improve electronic response (done),
- tilt filters (done),
- bilinear gain function and associated gain mods (done),
- resurface polarization scrambler (1 week),
- characterization (following weeks),
- attempt an on-board cloud flag for GAC data.

Some data recently in hand but final testing awaits scrambler.

Significant reduction in unwanted effects.

SBRC hopes to deliver sensor before end of November.

Cloud flag for GAC could not be accommodated by OSC
compression level inadequate for easy fix.
on board computer (state machine) duty impact.
software devel. would impact launch date.

Significant improvement provided under fixed price contract.
Many uses will no longer be impacted.

Need to study correction routines for LAC and mask for GAC
for very bright targets, near-IR bands.

Sensor Characterization Test Data - R. Barnes

Calibration Technical Memo draft (Barnes et. al.) is available.
Will update with modification data before printing.
Filter response data will be on-line shortly for ftp downloading.

Mission Ops - W. Gregg

Next review is Nov 17, 1994, at GSFC.
Simulated data set Version 2 by W. Gregg available via ftp.
Technical Memo in Press.
Navigation procedures making significant progress.

Data Capture - P. Coronado

End-End System testing planned for December - January.
Local HRPT antenna and pad are finished.
Report on HRPT hardware requirements is available.
Decoder box prototype complete.

Algorithm Development - C. McClain

Cal/Val Element (McClain) status review Oct 19.

Bio-optical workshop Nov 8-10 at GSFC.

Primary productivity workshop in late Jan, at Brookhaven.

Atmospheric correction procedure is coded and running.

Testing is underway.

May need spatial reduction to keep up with GAC rate.

Case 1 algorithms folded into Case 2 rather than vice versa

Carder to take lead on this coordination

May need to add Ed(0,1) or reflectance field

Review Algorithm Implementation plans in late October

Data Processing - G. Feldman

Formats will be frozen at HDF v 3.3 this fall.

Software tool availability is a concern.

Silicon Graphics planned upgrade is proceeding.

Testing of modules is underway as they are available.

Software availability

All SeaWiFS software will be available, but some unsupported.

Processing software (Level 0 to 3) will be bundled as SeaDAS.

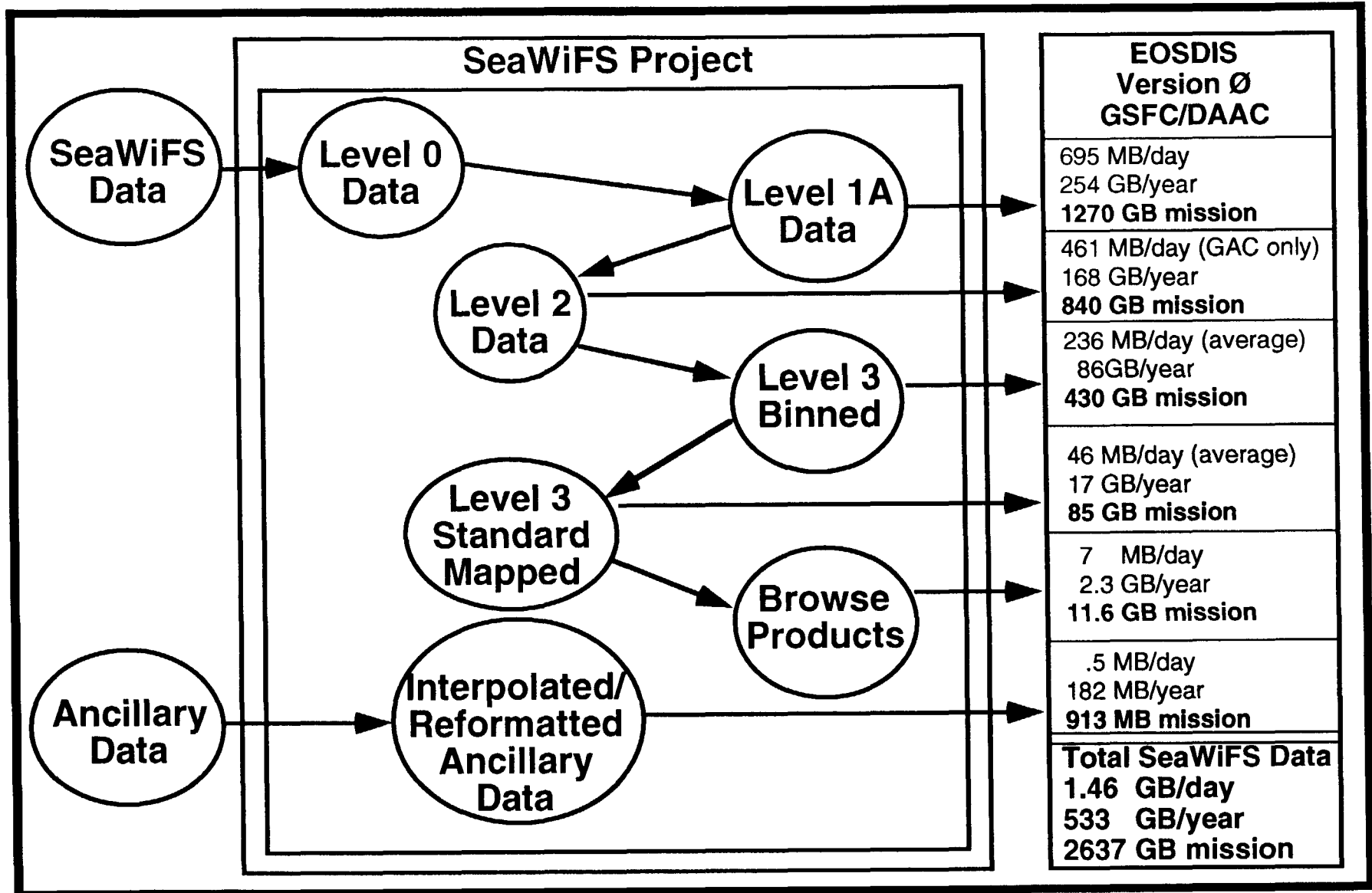
SeaDAS will be supported by C. McClain for Suns, SGI's.

SeaDAS makes use of IDL software.

Materials from Sept 13 review of SeaDAS are available.

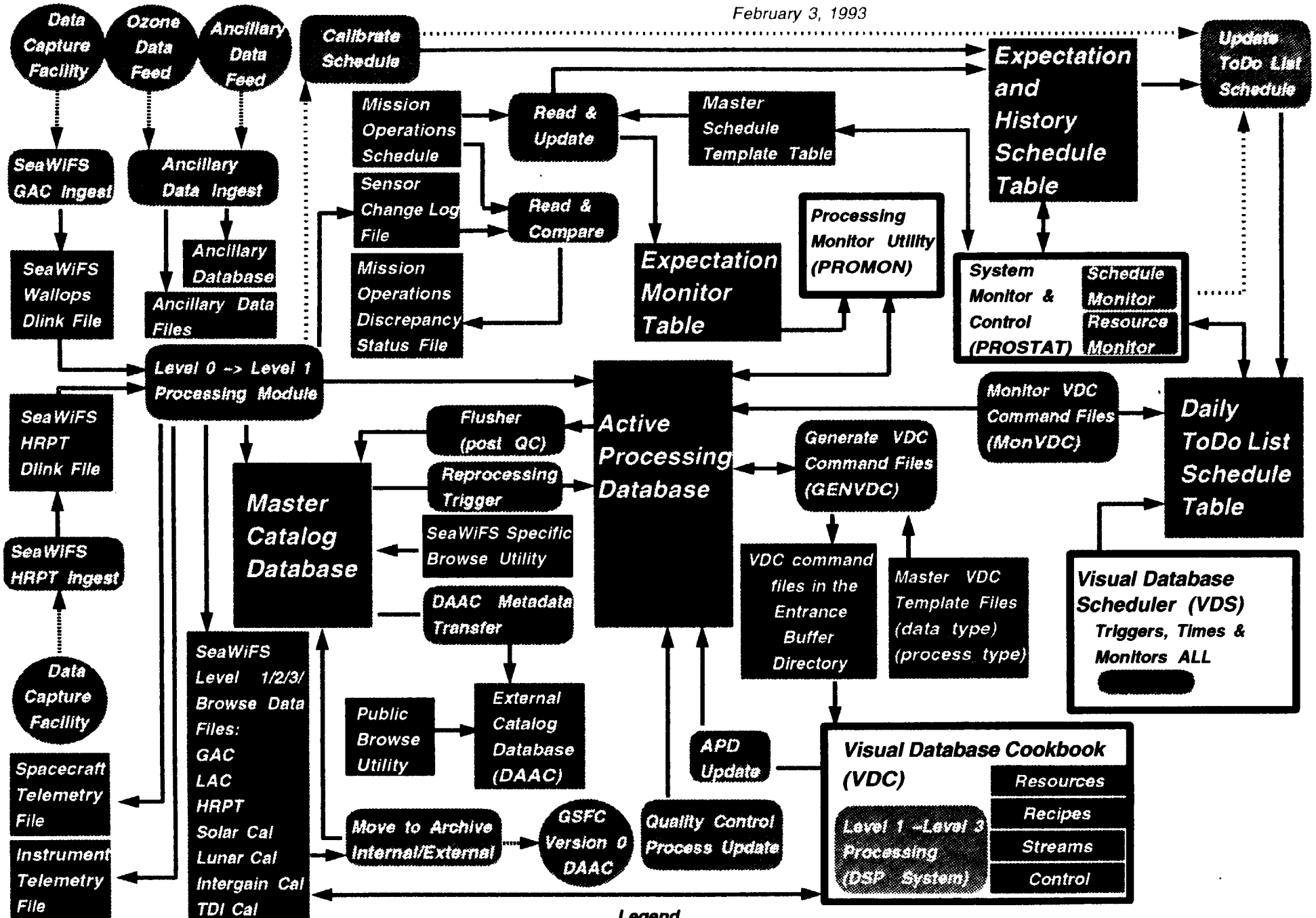
SeaWiFS Data System

Data Products for Distribution



SeaWiFS Data Processing System Software Design

February 3, 1993



Legend






PROSTAT

PROCESS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
GAC_in																									
HRPT_in																									
TOMS_in																									
Intdirs																									
Intdirs_nc																									
MonVDC																									
Archive																									
IMC_in																									
FNOC_in																									
IO_L1																									
Metadata																									
GenGAC																									
GenAC																									
GenHRPT																									
GenALL																									

PROSTAT Visual System Task Monitor and Control Function

STATUS DISPLAY

-  Task Name
-  Scheduled
-  In Progress
-  Completed
-  Warning
-  Failed

Task Group

▼

▲

▲

< - Prev Day

Next Day ->

Sound Off

Logfile Off

Create Task

Delete Off

EXIT

Validation - C. McClain

In-situ data sets are slow arriving for the data base.

MOBY mooring to be installed next week.

MOBY test in Monterey follows.

First deployment in Hawaiian waters scheduled for Feb. 94.

Round robin results are very positive.

Number of participants is limited by resources.

Need to have instrument comparison before launch.

Considering another GSFC-SBRC sphere comparison.

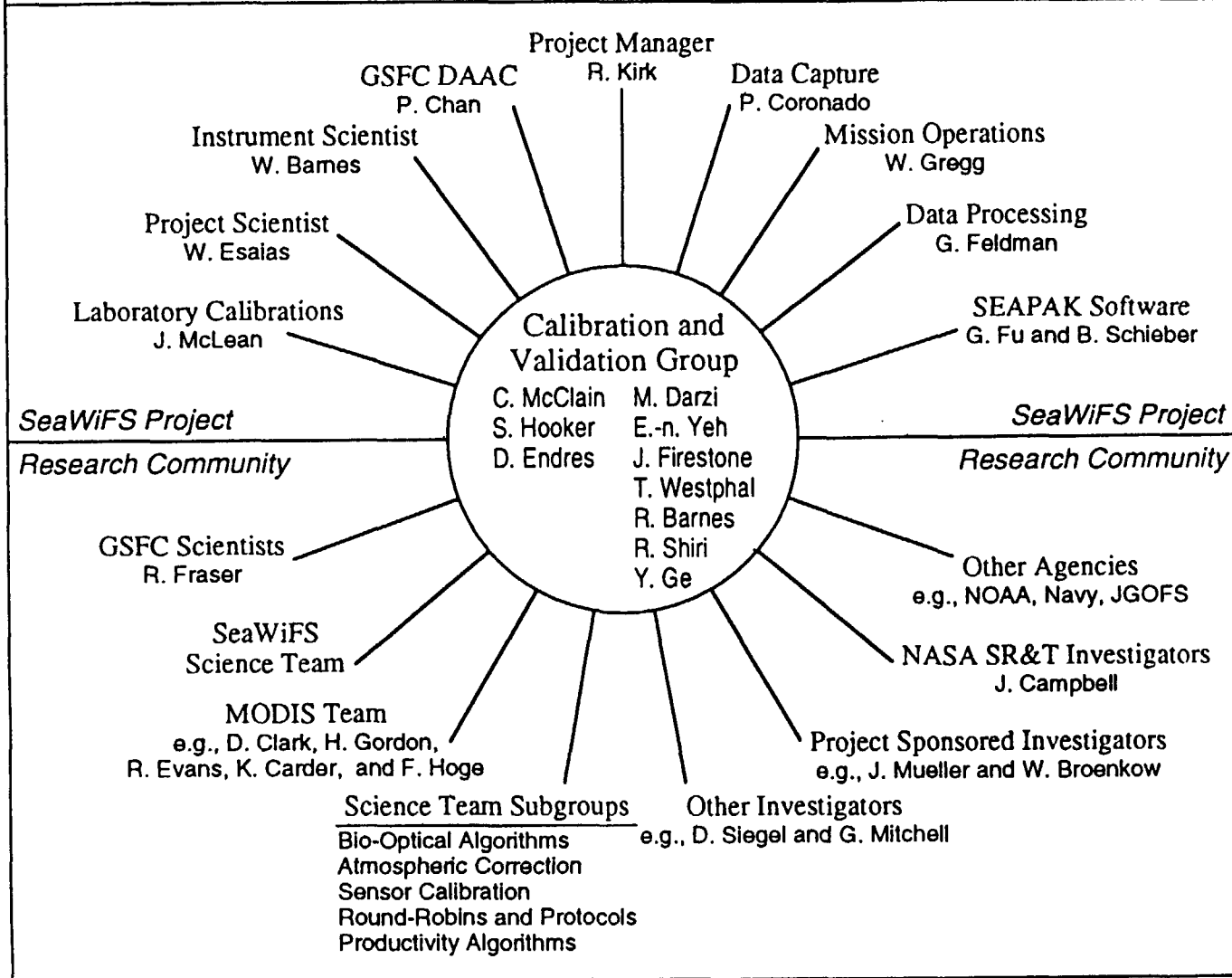
Ship schedule and launch dates will be worked until launch.

NOAA support of MOBY buoy is fairly definite.

NAVY cruise support undergoing some refinement.

Ship of opportunity schedule.

Calibration and Validation Program Interfaces



SeaWiFS SCIENCE WORKING GROUP SUBGROUPS

- Bio-optical Algorithms

Chairman: Dennis Clark

- Atmospheric Correction Algorithms

Chairman: Howard Gordon

- Calibration Round Robin and Measurement Protocols

Chairman: Jim Mueller

- SeaWiFS Calibration

Chairman: Phil Slater

- Primary Productivity Algorithms

Chairman: Paul Falkowski

MOBY OPERATIONS SCHEDULE

Preliminary Draft - dkc

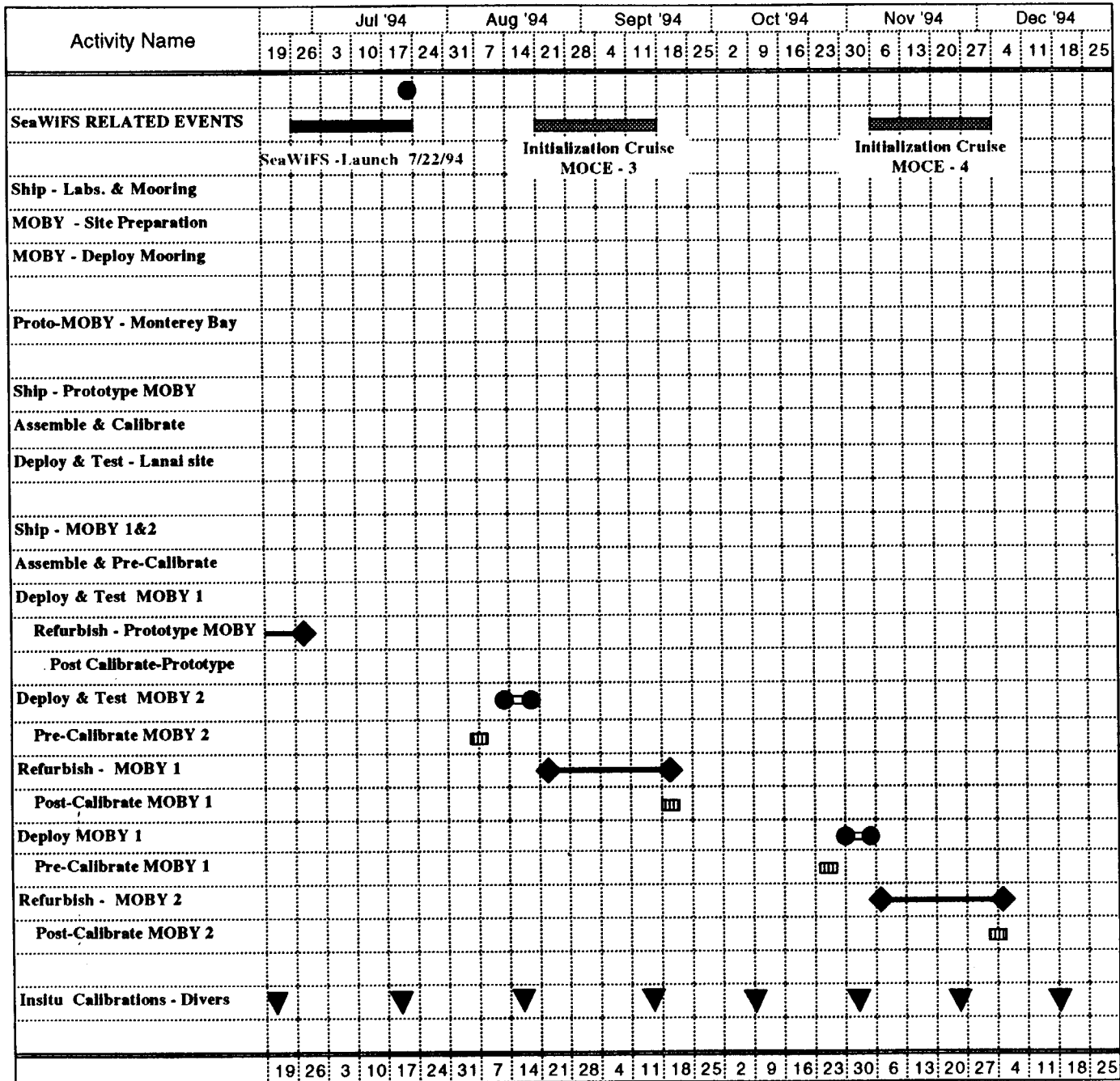
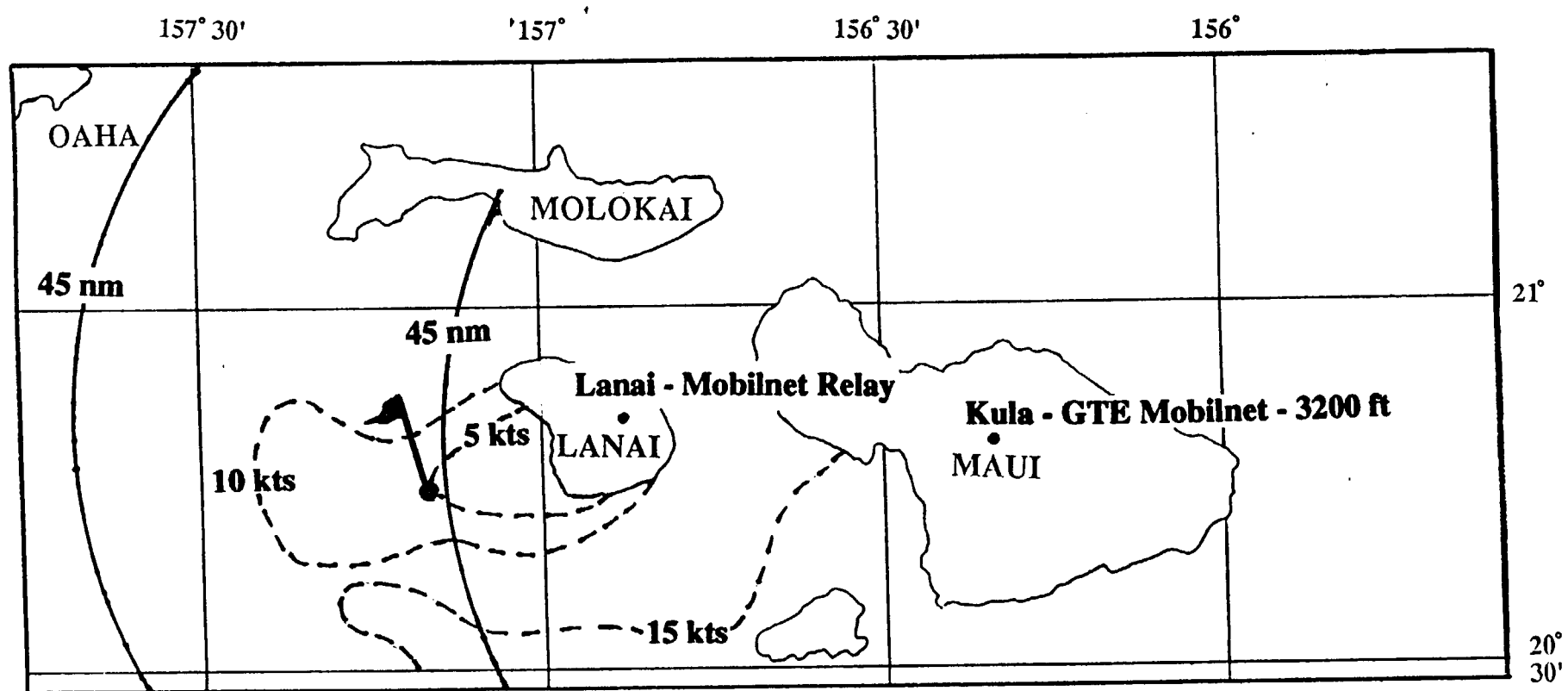


FIGURE 2.



Moby 1 Deployment Site - Lanai

EOS COLOR

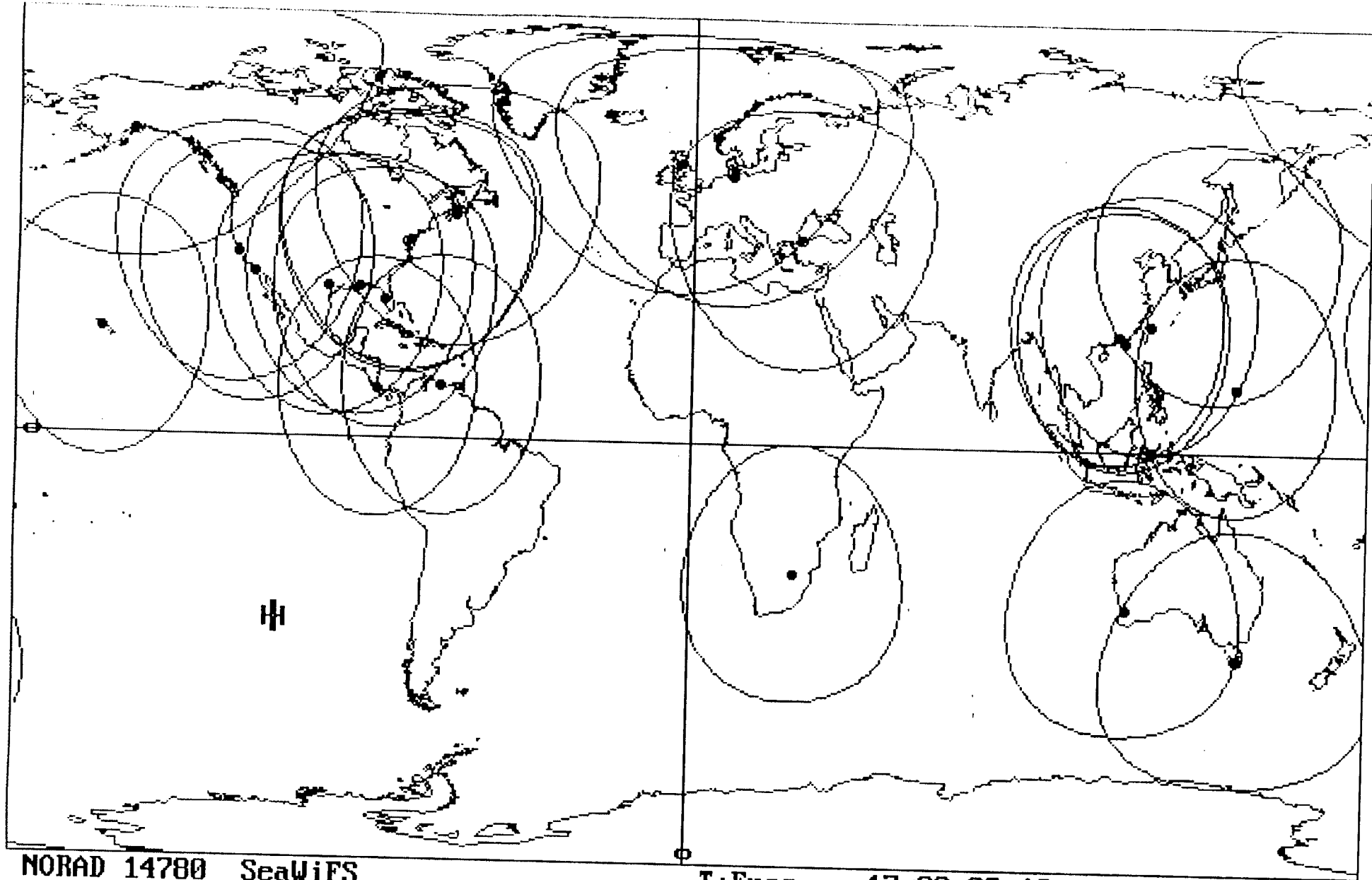
Budgeted for funding beginning in FY-95.

Data-buy approach likely.

GSFC Earth Sciences Dir. recommends SeaWiFS Project role.
Study manager (T. Karras) has begun spin-up.
Impacts of global LAC, 12 bit data.

Questions remain regarding science team, team funding.

NASA HQ questioning 12 bit data, sensor improvements.
global LAC data requirement apparently acceptable.



NORAD 14780	SeaWiFS	T+Epoc	17/23:08:18
Orbit:	98.2033°	388.61 nm	Orbit #: 50924.60
Epoch:	09/09/1993	17:23:16 UTC	Rng: 4774.57 nm
UTC/GMT:	09/27/1993	16:31:34 UTC	Latitude: -36.88°S
Local Time:	09/27/1993	12:31:34 EDT	Longitude: -110.44°W
			Alt: -37.45°
			Azm: 206.59°
			Location: GSFC, MD

9/28/93