

A world map with a color-coded overlay representing oceanographic data. The colors range from blue (cooler) to red (warmer), with yellow and green in between. The map shows the continents and the surrounding oceans with varying intensities of these colors.

SeaBASS: *Data Submission*

Jeremy Werdell

SIMBIOS 1999 Science Team Meeting

September 13-15, 1999

The SIMBIOS logo consists of the word "SIMBIOS" in white, uppercase, sans-serif font, centered within a dark blue, horizontally-oriented oval with a slight gradient and a shadow effect.

SIMBIOS

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SeaBASS IN A NUTSHELL:

- **NASA/SeaWiFS sponsored field data (*in situ*) bio-optical archive for calibration and validation of satellite imagery**
- **Worldwide archive of over 200 optical data sets (e.g. AOP, IOP, CTD, pigment data)**
 - **Simple ASCII format with standard (metadata) headers to fully define any data file**
 - **Surface $L_w(\lambda)$, $E_s(\lambda)$, $K_d(490)$, chl a data files used in the SeaWiFS calibration/validation matchup analysis**
 - **Password secure web access to data files, database, and supporting documentation via <http://seabass.gsfc.nasa.gov/>**
- **Contact Jeremy Werdell (jeremy@seabass.gsfc.nasa.gov) for more information**

THE FLOW OF DATA ...

**INCOMING
DATA!**

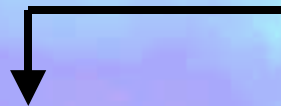


(1) Validation of incoming data

- **F-Check**
- **Data quality**
- **Completeness**
- **Cruise information**
- **Other supporting documentation**
- **Calibration files**
- **Status report (new vs. update)**

(2) Ingestion of new data into SEABASS

(3) Preparation of data for the *MATCHUP ANALYSIS*



**TO SEAN
FOR
MATCHUP
*ANALYSIS***

OTHER

- (1) Liaison to the Principle Investigator**
- (2) General SEABASS user support**
- (3) Maintenance of the SEABASS data archives**
- (4) Out to sea ...**

WE NOW HAVE *TWO* DATABASES !

I. SeaBASS DATA ARCHIVE

- (1) Database for **FIELD** data
- (2) We presently receive as a minimum:
 - $L_w(\lambda)$, $E_s(\lambda)$, $L_u(\lambda, \theta, \phi)$, $E_d(\lambda)$, chl a, AOT
- (3) Additionally, we receive:
 - IOP's, fluorescence, pigments, nutrients, PAR, CTD

II. SeaBASS METADATA ARCHIVE

- (1) A database for “**INFORMATION**” on field data
- (2) Allows for easy bookkeeping
- (3) Internal to the SIMBIOS Project Office
- (4) Comprehensive collection of information re:
PI/cruise/date/location/parameters/instrument/etc.
- (5) Provides a means to track data status, etc. ...

NEW !

P.S. The new NRA requires data to be submitted to the NODC

SeaBASS METADATA HOLDINGS

IDS

PI
 last name
 first name
 other contacts
 lab / univ
 phone
 fax
 email
 contract dates

EXPECTED

PI
 expected cruises
 notes

INFO

cruiseid
PI
 location
 start date
 end date
 documents
 matchup
 (Y/N)
 notes

PARAMETERS

cruiseid
 parameter 1
 no. files
 casts / stations
 data type
 parameter 2
 ...
 ...

INSTRUMENTS

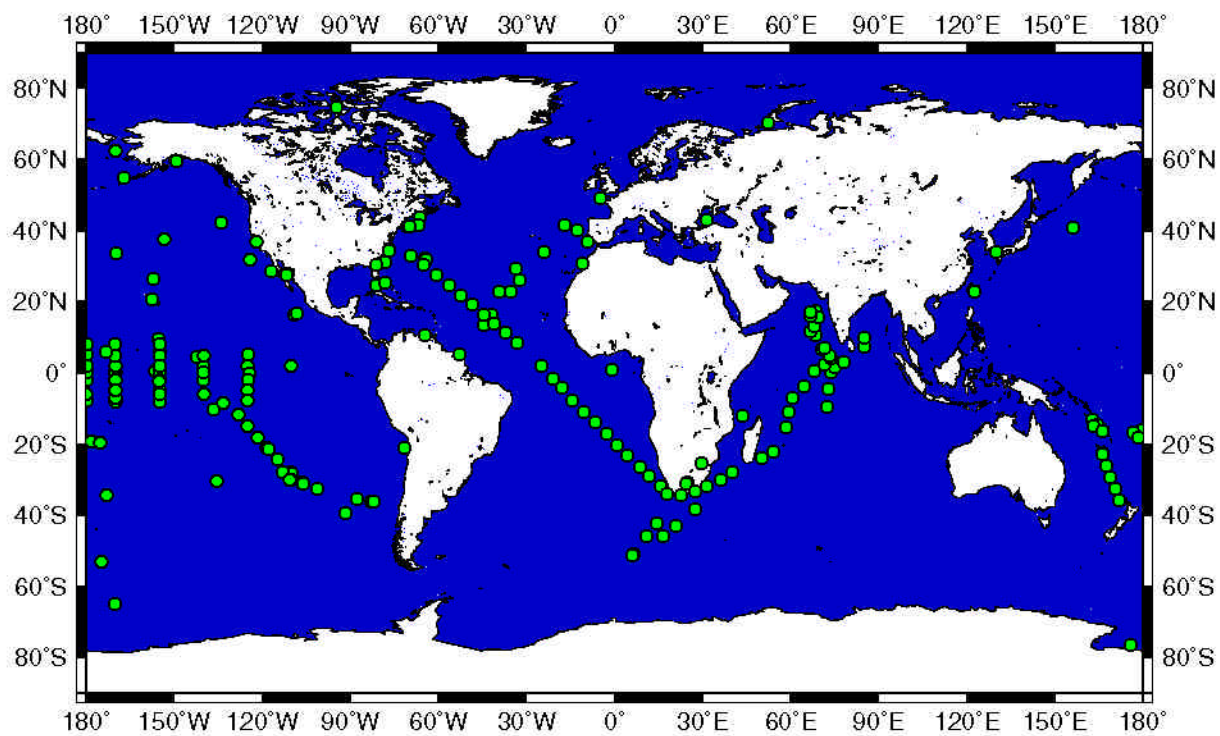
cruiseid
 radiometer type
 ac9 (Y/N)
 hs6 (Y/N)
 sunphoto type
 CTD (Y/N)
 fluorometer type
 spectrophotometer (Y/N)
 HPLC (Y/N)
 other
 calibration files
 notes

ARCHIVED

cruiseid
 Lw, Es (#)
 L, E, K (#)
 PAR (#)
 Rrs (#)
 Wt (#)
 sal (#)
 aT (#)
 a* (#)
 b (#)
 bb (#)
 bac (#)
 trans (#)
 chla (#)
 pigm (#)
 fluor (#)
 nutr (#)
 AOT (#)
 other (#)

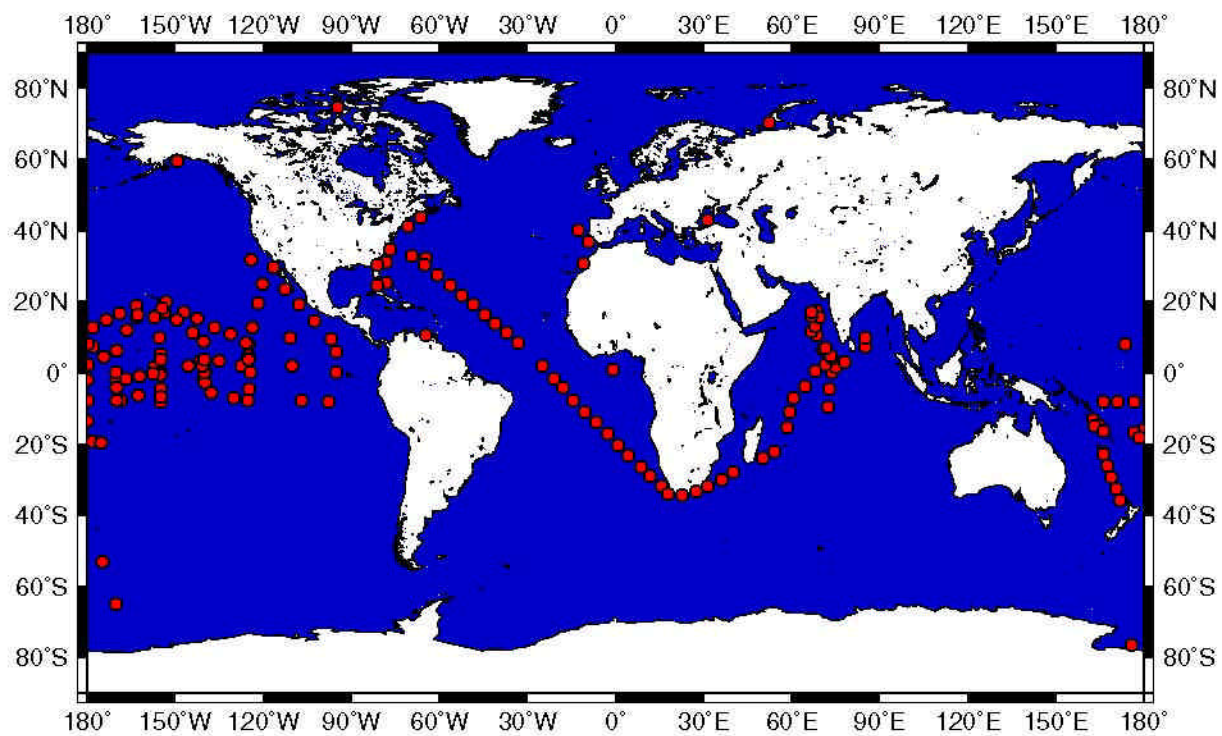
SIMBIOS *in situ* LOCATIONS

Apparent Optical Properties -- January 1997 to July 1999
91 data sets, 4644 measurements PLUS



SIMBIOS *in situ* LOCATIONS

CHLOROPHYLL A -- January 1997 to July 1999
81 data sets, 4590 measurements

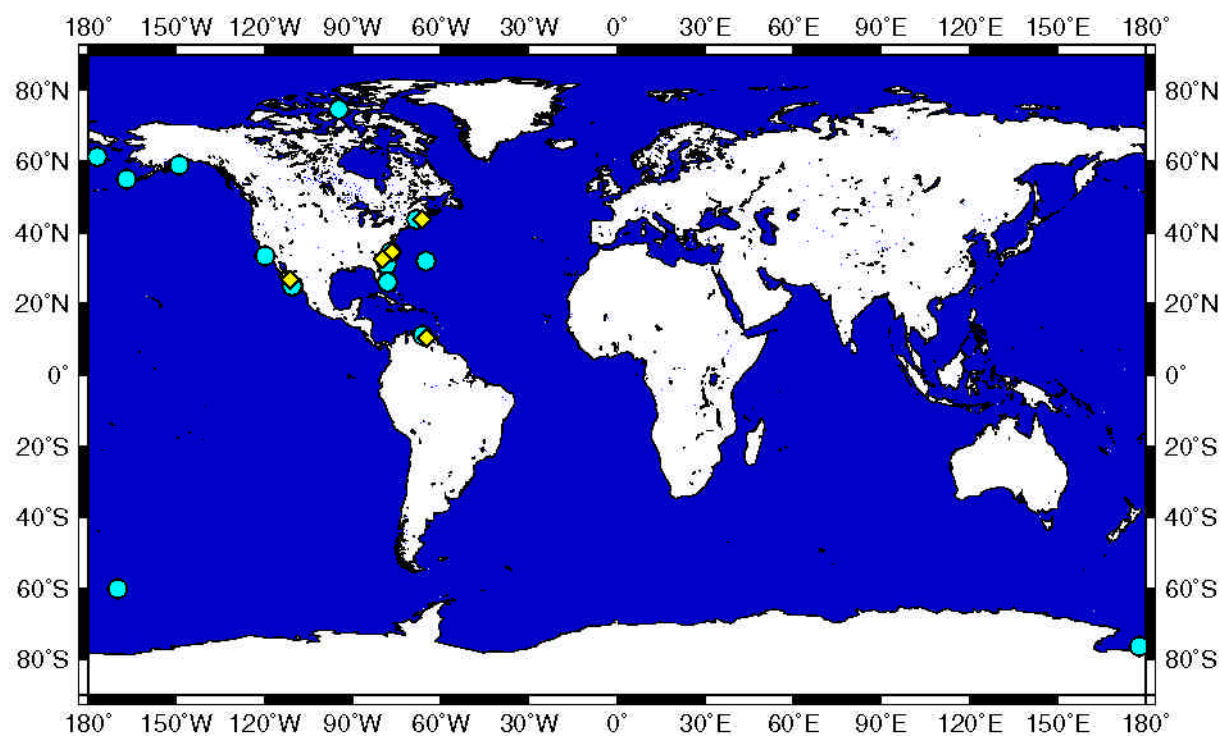


SIMBIOS *in situ* LOCATIONS

PAR & FLUORESCENCE -- January 1997 to July 1999

PAR (yellow): 14 data sets, 84 measurements

FLUOR (blue): 51 data sets, 2151 measurements



A world map with a color-coded overlay representing oceanographic data. The colors range from dark blue (low values) to red (high values), with yellow and green in between. The map shows the continents and the surrounding oceans.

FURTHER SeaBASS INFORMATION ...

SEAWIFS BIO-OPTICAL MATCHUP COMPARISONS

Sean Bailey, Tuesday 9.14.99, 10:15 AM

SEABASS *DATA/METADATA* WORKSHOP

Tuesday 9.14.99, 4:15 PM

- **standardized units**
- **software versions, instrument models, and calibration files**
- **cruise and status reports**
 - *more ...*

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