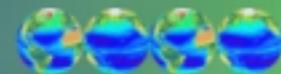


SeaBASS



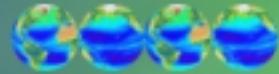
SeaBASS Data Analyses, Holdings, & Access Policy

SeaWiFS Bio-optical Archive and Storage System
<http://seabass.gsfc.nasa.gov>

Jeremy Werdell

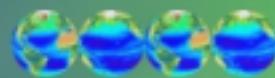
NASA Ocean Color Discipline Processing Group
SSAI

14 July 2004

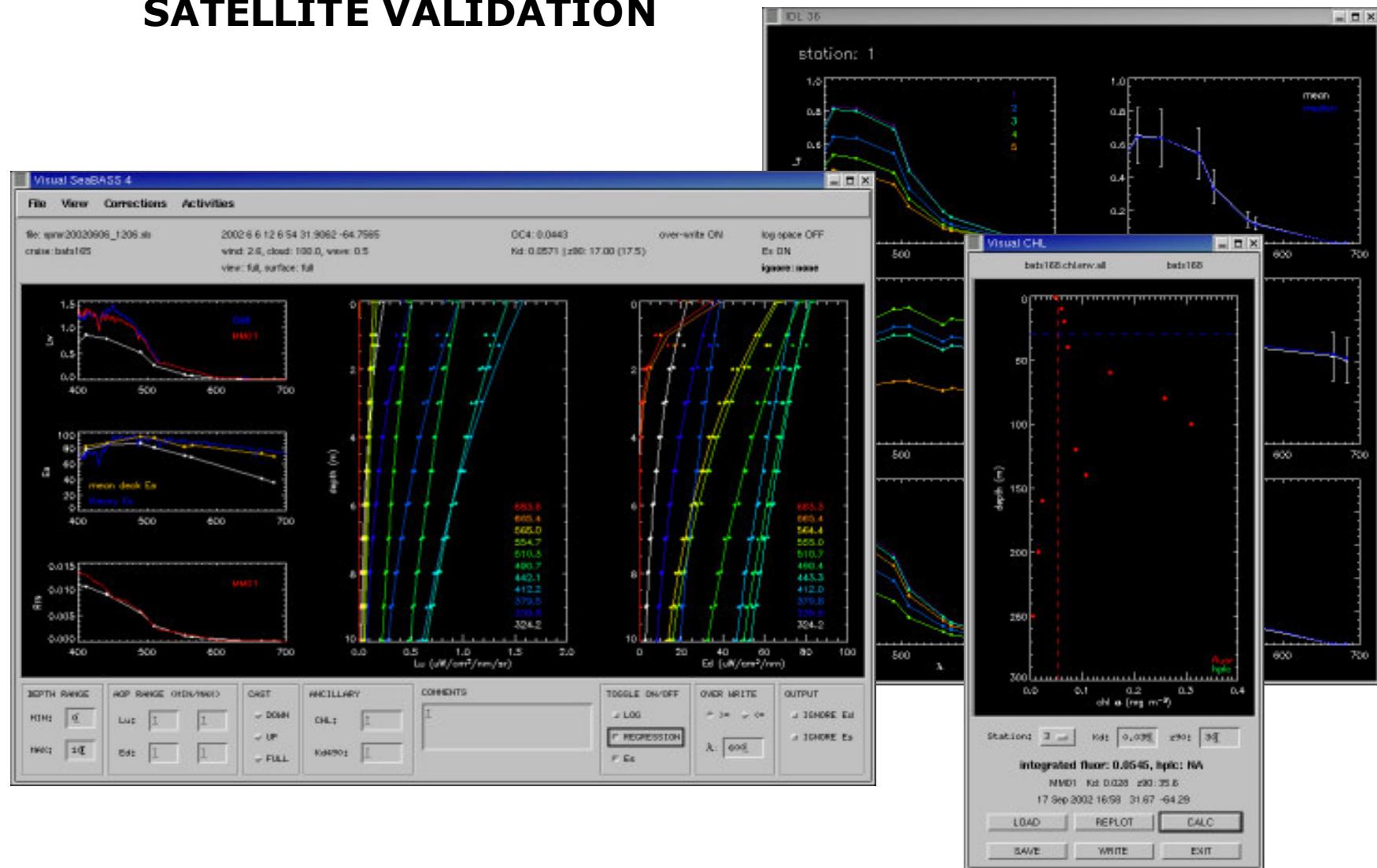


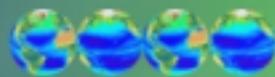
SATELLITE VALIDATION

The satellite validation & algorithm development systems have been updated.



SATELLITE VALIDATION





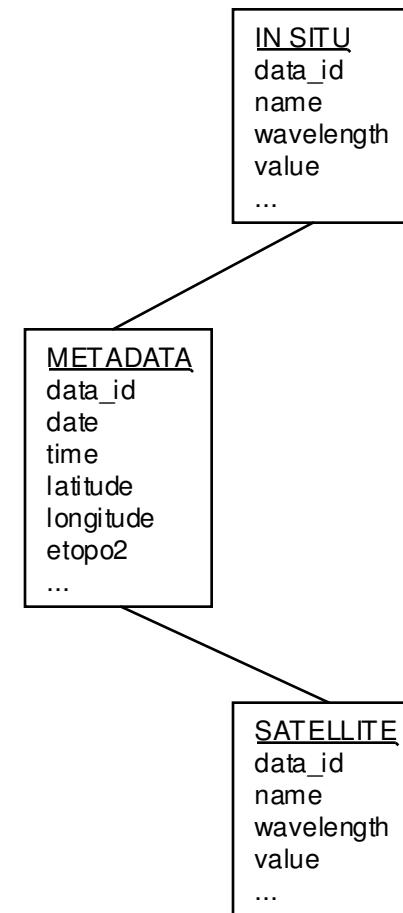
SATELLITE VALIDATION

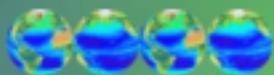
RECENT ACTIVITIES

all $L_u(\lambda)$ profiles re-evaluated & $L_w(\lambda)$ estimated
all $L_w(\lambda)$ and $R_{rs}(\lambda)$ from above-water instruments re-evaluated
all C_a profiles re-evaluated & weighted C_a estimated
multiple observations reduced to a single observation per station
15,000 $L_w(\lambda)$ observations from 5,000 stations analyzed
21,000 C_a observations from 10,000 stations analyzed

SYSTEM HIGHLIGHTS

database solution
coincident *in situ* observations identified
coincident satellite observations located
date, time, latitude, & longitude available
option for additional normalization (e.g., f/Q & self-shading)
comprehensive *in situ* flagging system
data type & instrument independent design
available for validation & algorithm development activities





SATELLITE VALIDATION

EXCLUSION CRITERIA

5 x 5 box, centered on *in situ* observation

MLAC preferred to GAC

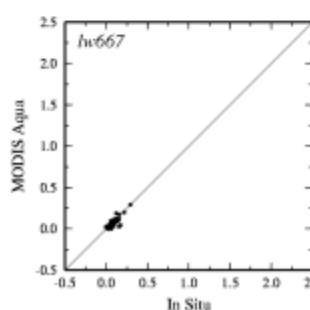
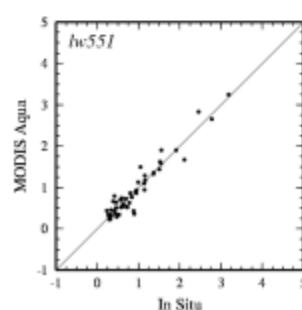
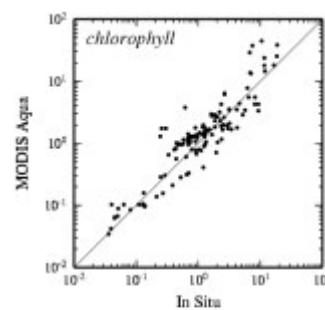
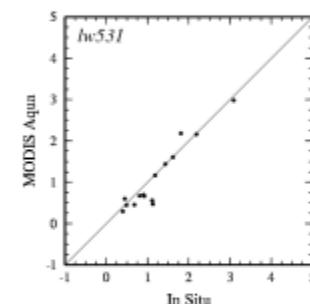
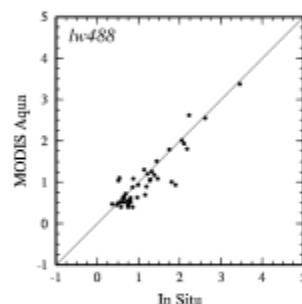
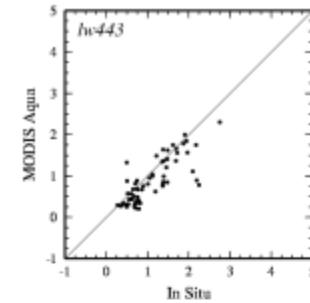
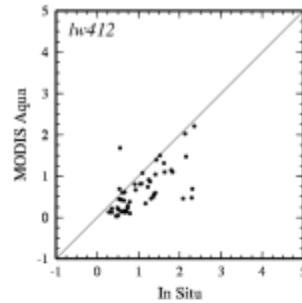
standard satellite masking

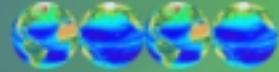
+/- 3 hour window

distance from other valid observations

50% of non-land pixels valid

satellite statistical homogeneity





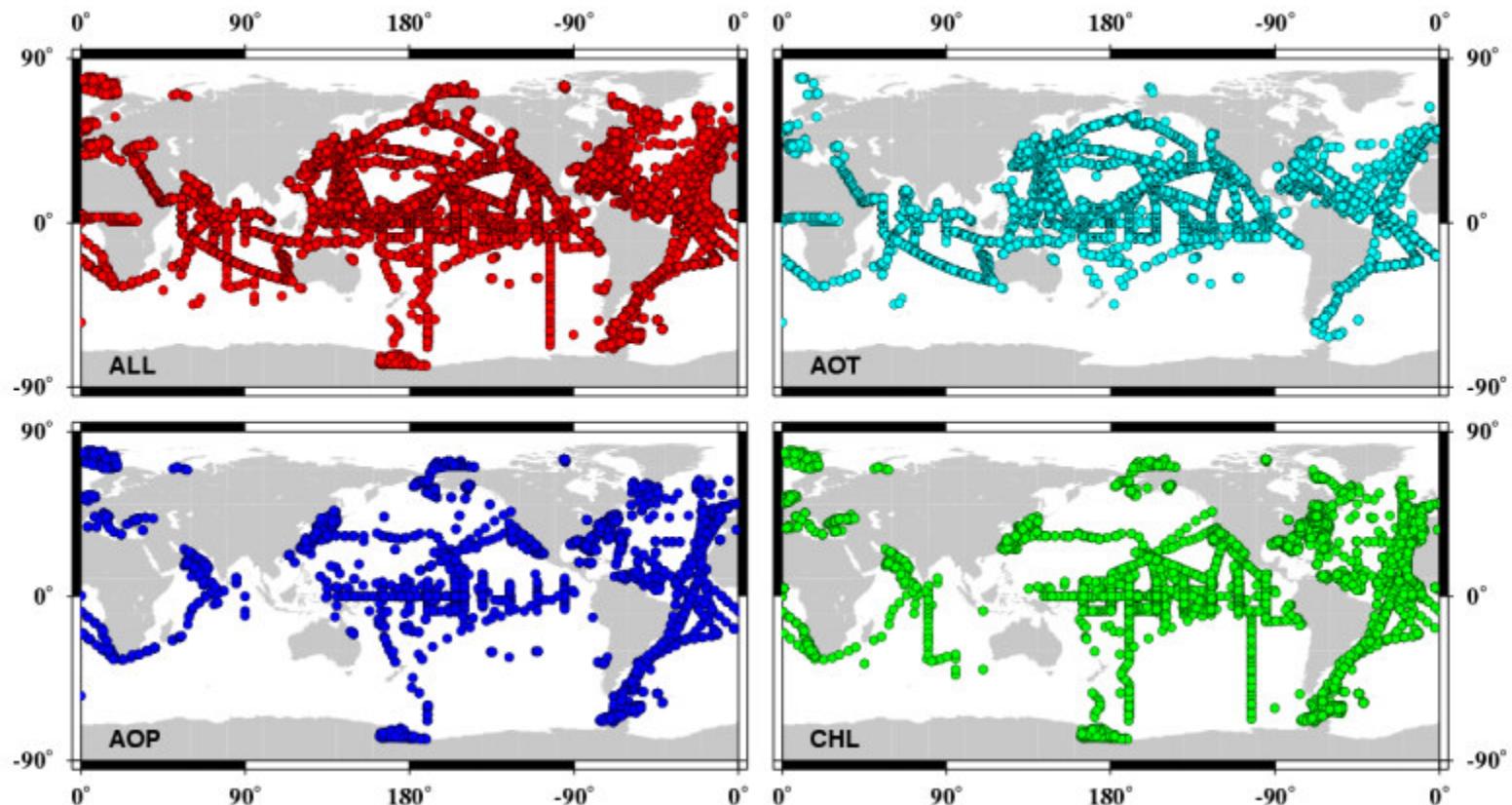
DATA HOLDINGS

With the end of SIMBIOS, data submission rates have dropped significantly.



DATA HOLDINGS

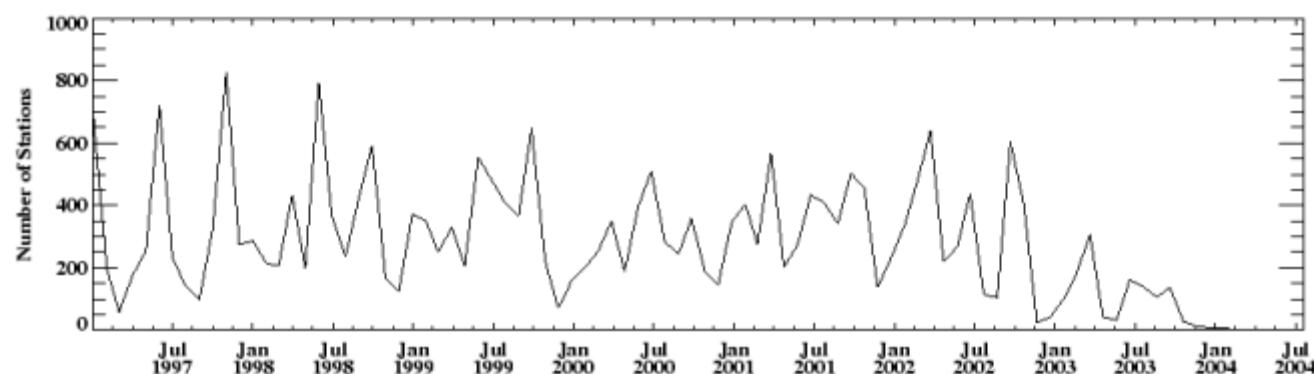
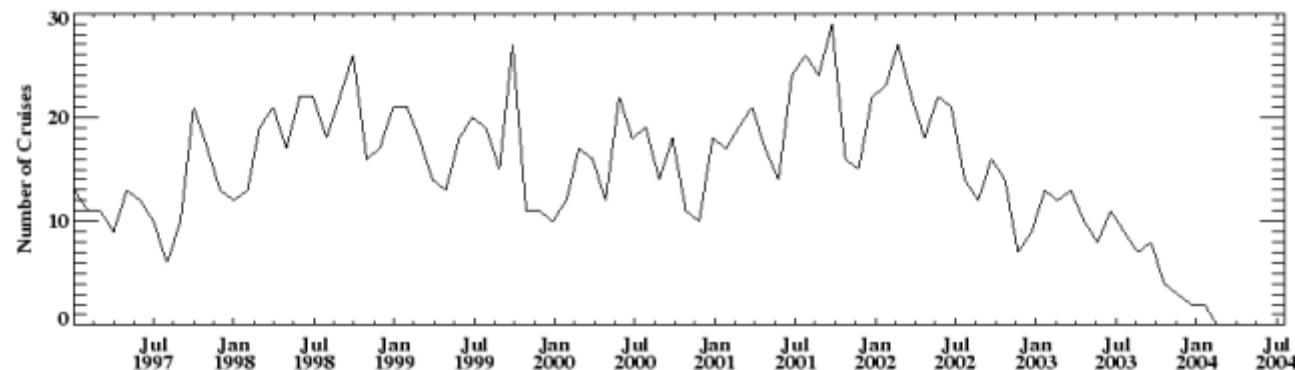
SeaBASS data points as of July 2004

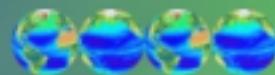




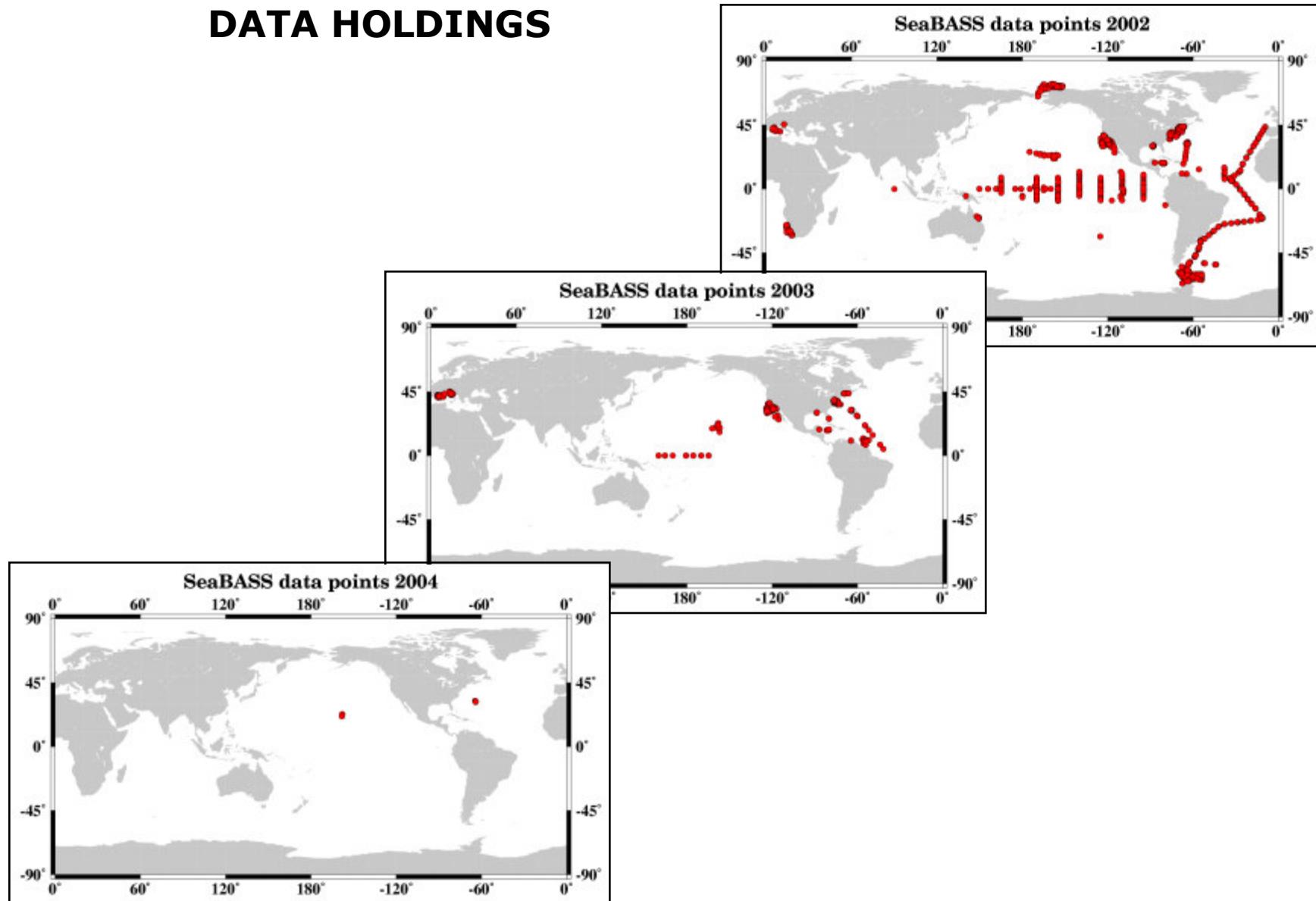
DATA HOLDINGS

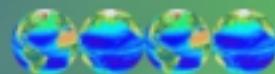
SeaBASS Data Observations Per Month



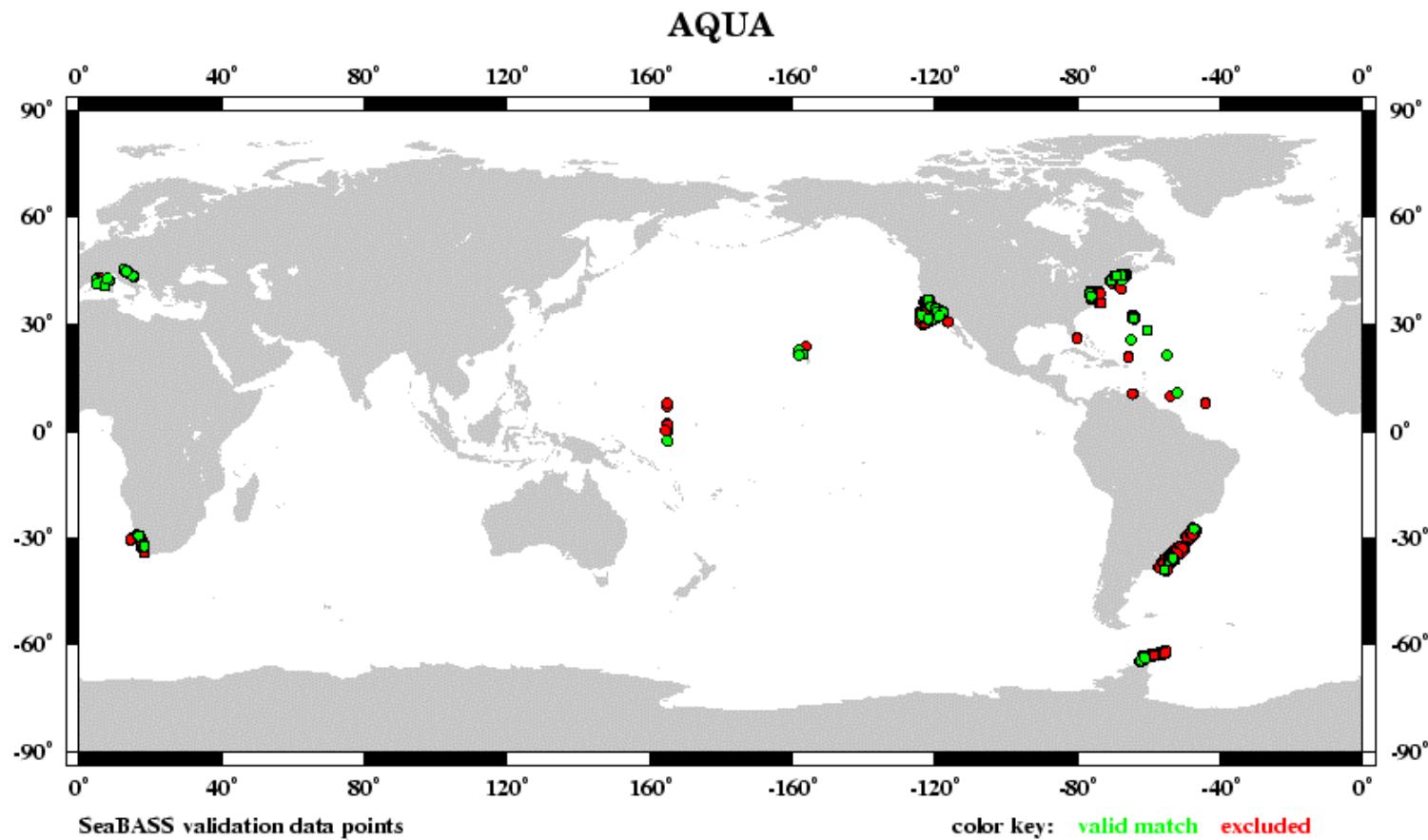


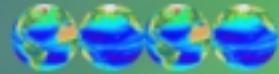
DATA HOLDINGS





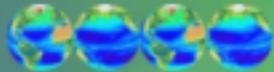
DATA HOLDINGS





DATA ACCESS POLICY

With the end of SIMBIOS, the access policy needs formal redefinition.



DATA ACCESS POLICY

CURRENT ACCESS POLICY

full access limited to NASA Ocean Color Science Team (e.g., MODIS & SIMBIOS) & voluntary data contributors

data released to public on 3-year collection anniversary

contributor(s) of data extended authorship rights until 3-year collection anniversary

CONCERNS

SIMBIOS-era has ended

increased need to distribute restricted data (e.g., for algorithm development activities)

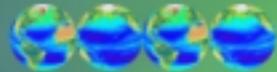
enforcement of authorship rights & acknowledgements

POSSIBLE UPDATES

continue existing policy

reduce data release to 1-year or 18-month collection anniversary

adopt *SeaWiFS authorized user*-like approach



RESOURCES

MAIN:

<http://seabass.gsfc.nasa.gov>

DATA:

<http://seabass.gsfc.nasa.gov/dataordering.html>

CALIBRATION:

http://seabass.gsfc.nasa.gov/vicarious_splash.cgi

VALIDATION:

http://seabass.gsfc.nasa.gov/matchup_results.html

CONTACT:

seabass@seabass.gsfc.nasa.gov