

Todd D. O'Brien

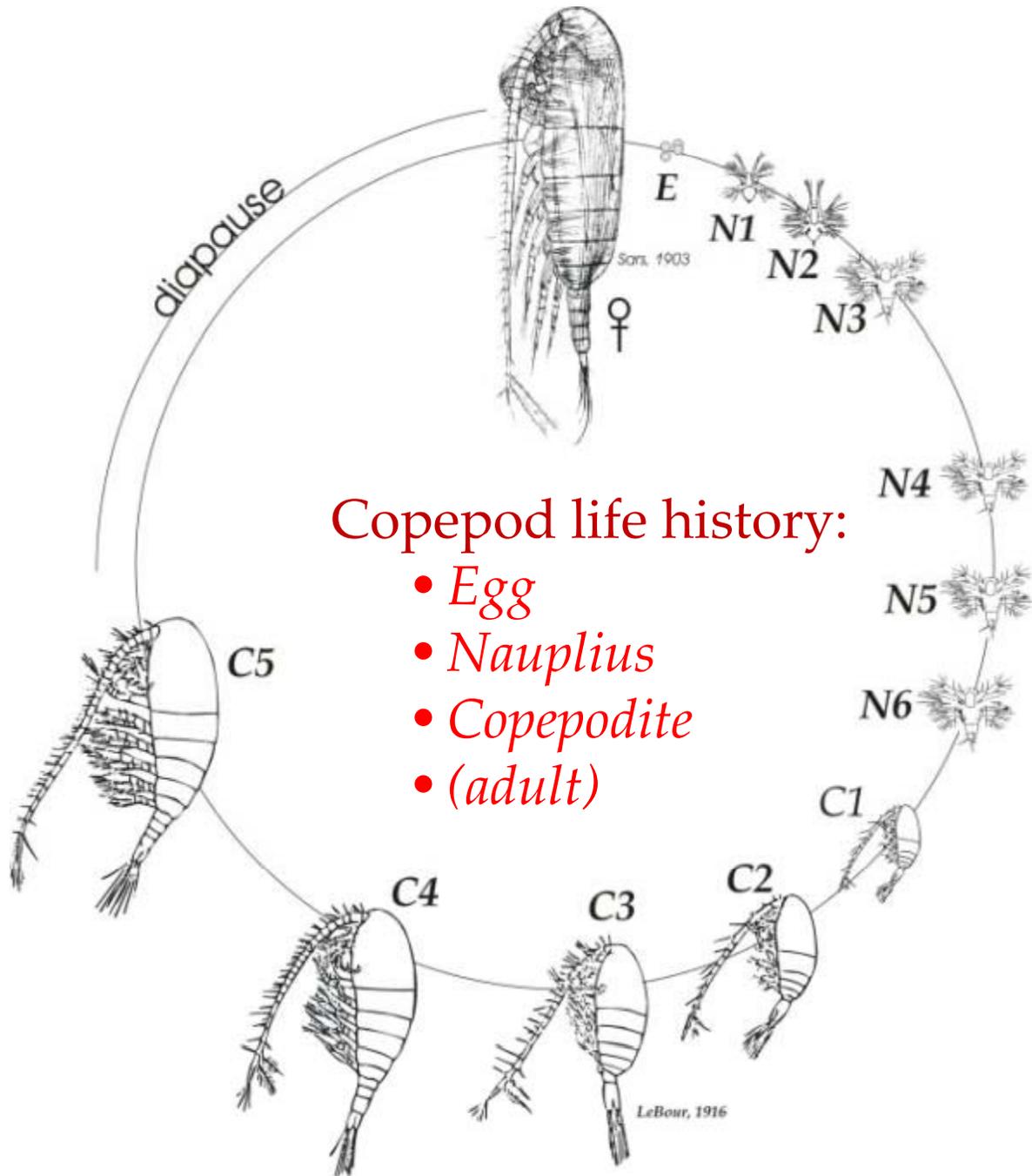
*NOAA / NMFS Office of
Science & Technology*

A black silhouette of a copepod, a small crustacean, is positioned horizontally across the center of the image. Its long antennae extend to the right, and its legs are visible at the bottom.

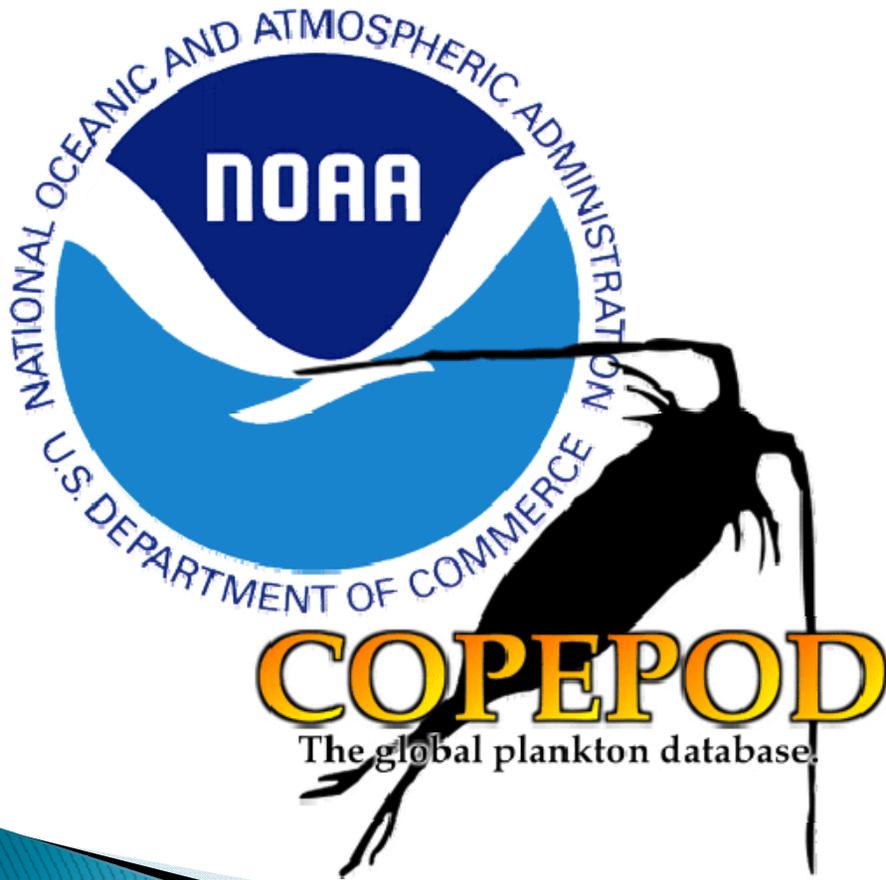
COPEPOD

The global plankton database project.

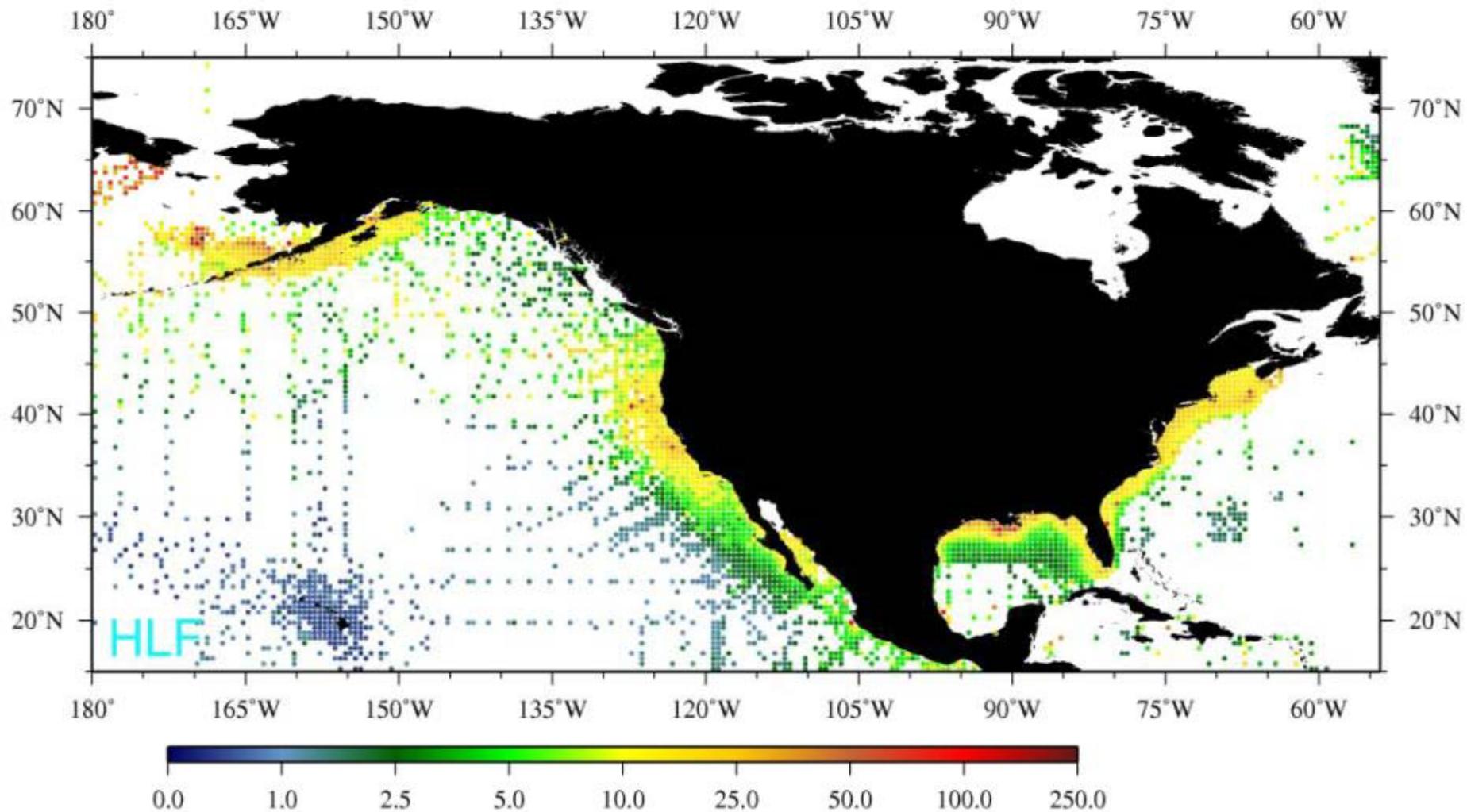
“Copepods 101”



COPEPOD

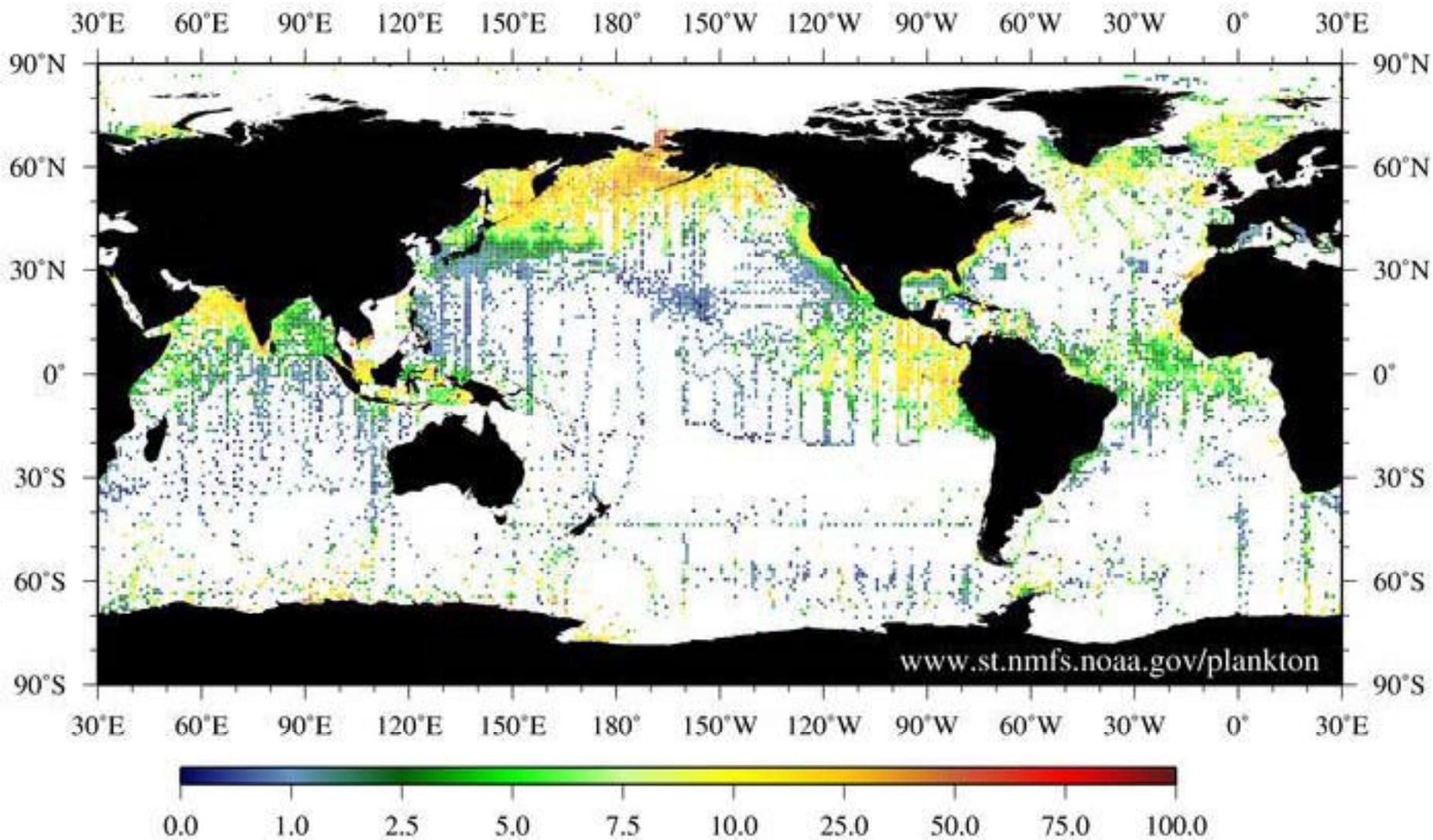


C oastal &
O ceanic
P lankton
E cology,
P roduction, &
O bservation
D atabase



Zooplankton Carbon Mass (mg-C/m³)

California Current 1950's
Northeast 1970's
Gulf of Mexico & Alaska 1980's



Zooplankton Carbon Mass (mg-C/m³)

COPEPOD

The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

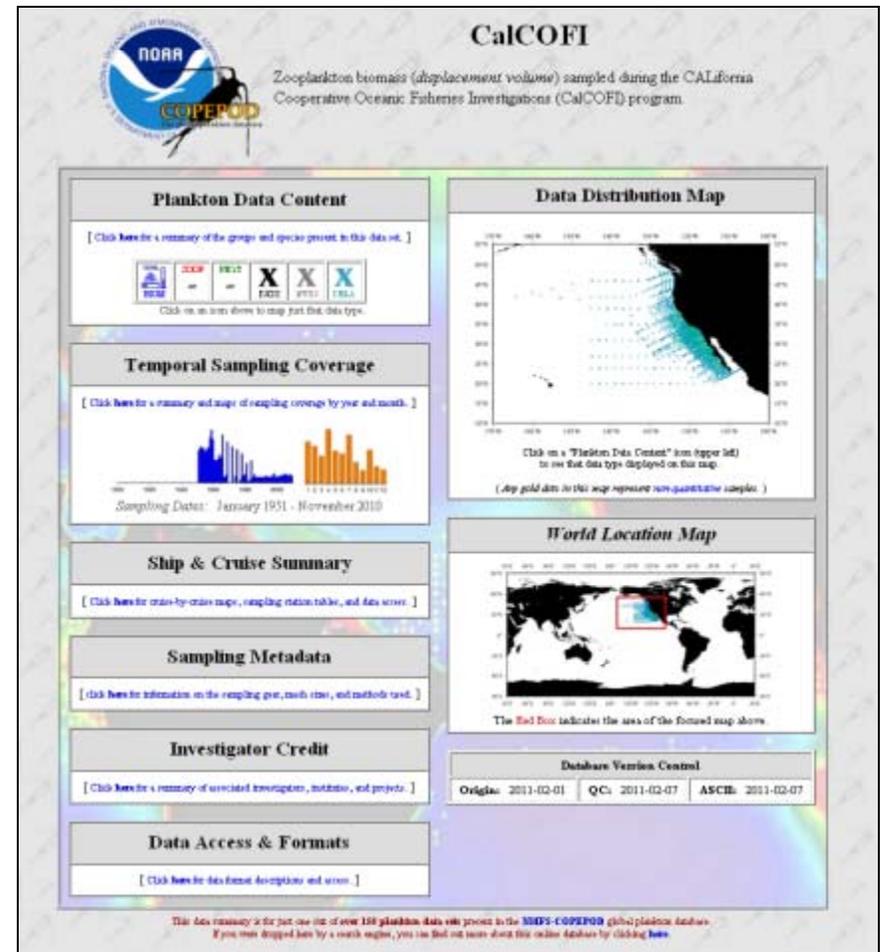
- ▶ Within COPEPOD, the source data are stored in individual data collections (i.e., a cruise, a project, an institutional collection).
- ▶ These individual pieces are then assembled to make compilations and spatial data products.
- ▶ Supplemental indexing and calculated values help integrate these otherwise disparate data.



COPEPOD

The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

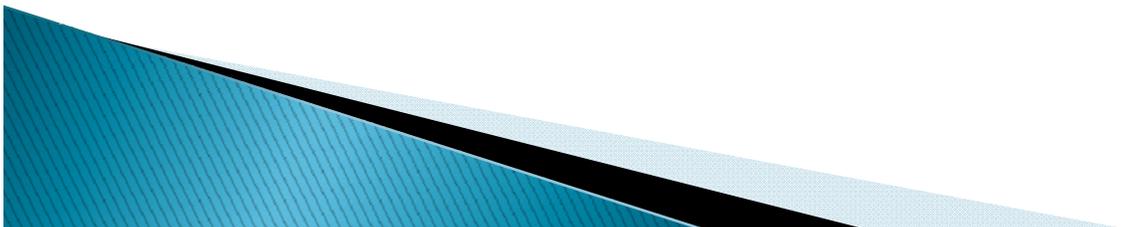
- ▶ Each collection has its own interactive web presence which combines metadata, data, and data statistics into a standardized visual presentation packet.
- ▶ Data! Metadata! Stats!



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The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

- ▶ This individual web entity has three purposes:
 1. To preserve the original identity of the data pieces (providing citation guidance and/or contact information when available).
 2. To let the user know exactly what they are downloading before they download the data.
 3. To give the data “Google visibility”.

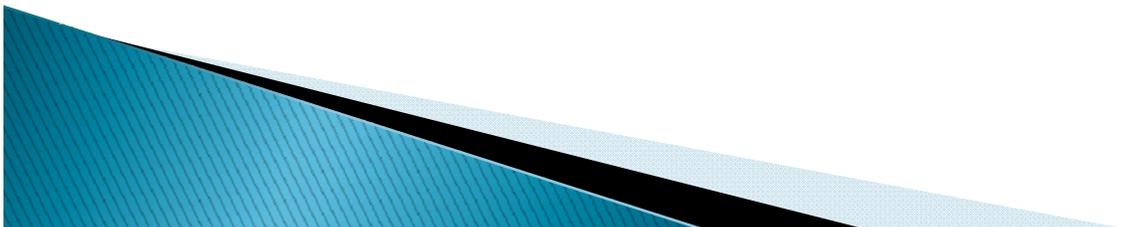


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The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

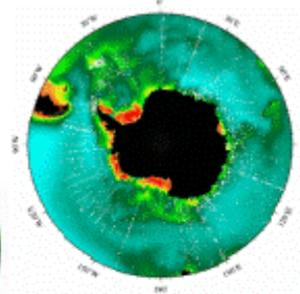
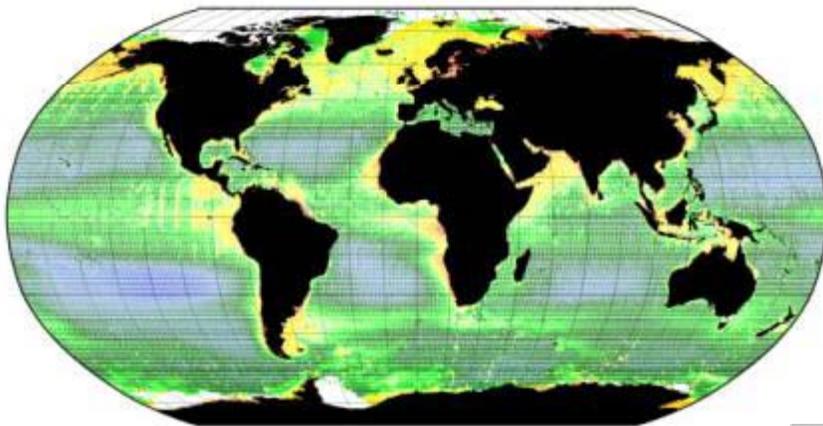
▶ Value-added features:

1. Taxonomic indexing and grouping
2. Common Base-unit Values (CBV: /m², /m³)
3. Advanced quality control and empirical outlier detection



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The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase



CalCOFI
 Zooplankton biomass (displacement volumes) sampled during the CALIFORNIA Cooperative Oceanic Fisheries Investigations (CalCOFI) program.

Plankton Data Content
 [Click here for a summary of the groups and species present in this data set.]

Data Distribution Map
 [Click on a "Plankton Data Content" data layer (left) to see the data type displayed on this map.]

Temporal Sampling Coverage
 [Click here for a summary of sampling coverage for your area of interest.]

Ship & Cruise Summary
 [Click here to view by cruise name, sampling station table, and data access.]

Sampling Metadata
 [Click here for information on the sampling gear, such files, and other metadata.]

Investigator Credit
 [Click here for a summary of associated investigators, institutions, and projects.]

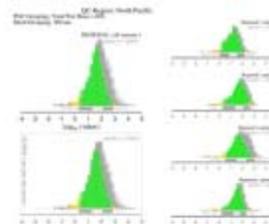
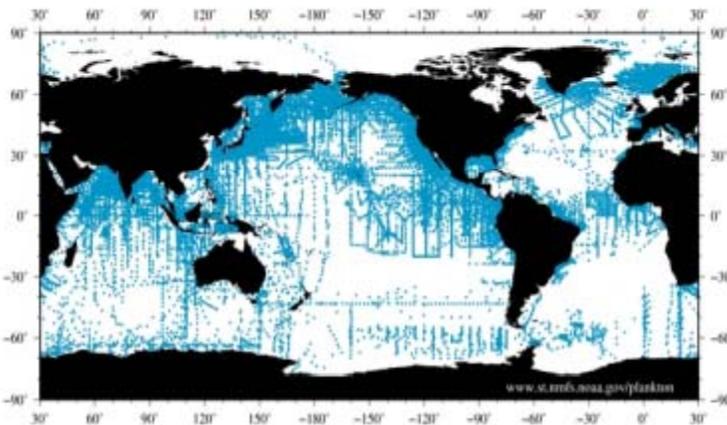
Data Access & Formats
 [Click here for detailed description and access.]

World Location Map
 The Red Box indicates the area of the filtered map above.

Database Version Control
 Original: 2011-02-06 QC: 2011-02-07 ARCD: 2011-02-07

This data directory is the first one out of over 100 plankton data sets provided by the **IMD's COPEPOD** global plankton database. If you have suggestions for a new topic, visit us at the [data access](#) or [contact](#) pages.

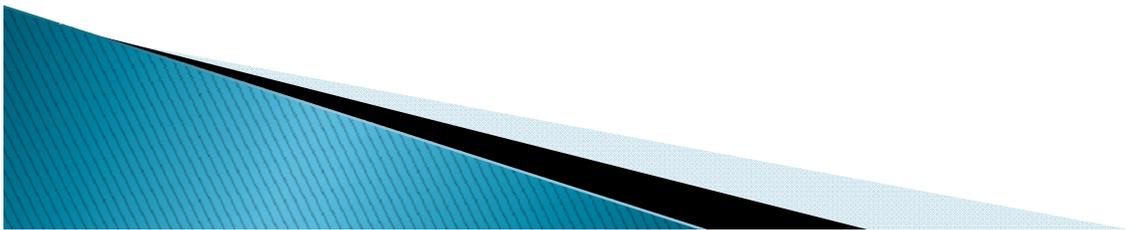
Alaska (OJAS)									
COPEPOD ID	Year	No. of Stations	Sampling Date	Station ID	Cruise Name	Ship Name	Investigator	Institution	Access
10-001-001	2001	10	08/01	1001	OJAS	R/V
10-001-002	2001	10	08/08	1001	OJAS	R/V
10-001-003	2001	10	08/15	1001	OJAS	R/V



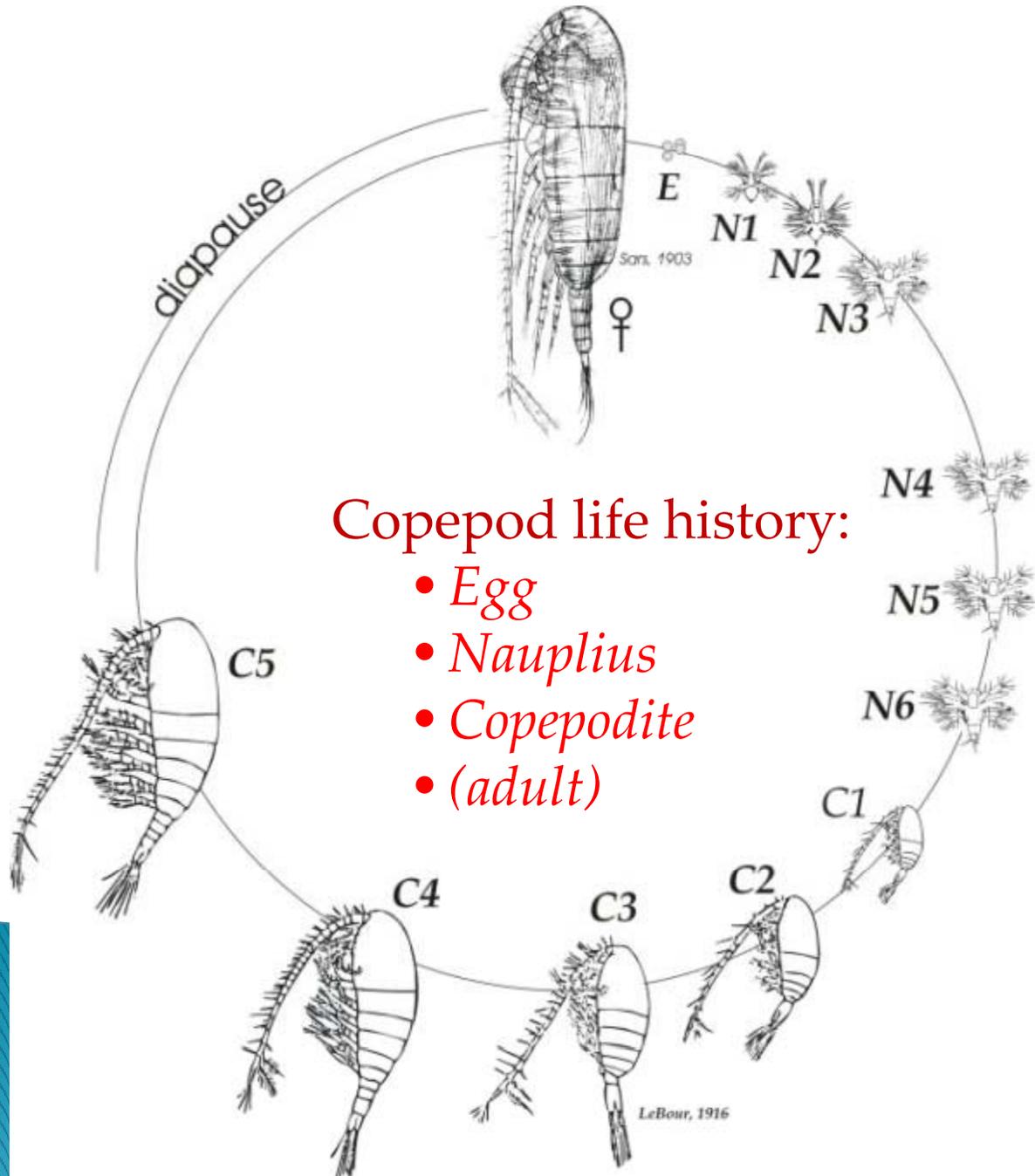

15 years in 15 seconds

- ▶ Interacting with and supporting your users is the quickest way to understand the usefulness and application-ease of your data entity.
- ▶ Interacting with and supporting your data providing community is the quickest way to gain trust, acquire new data, and learn what products and tools would be most useful.
- ▶ Act like a library not an empire.
- ▶ Integration should not mean anonymity.





“Copepods 101”



Copepod life history:

- *Egg*
- *Nauplius*
- *Copepodite*
- *(adult)*

