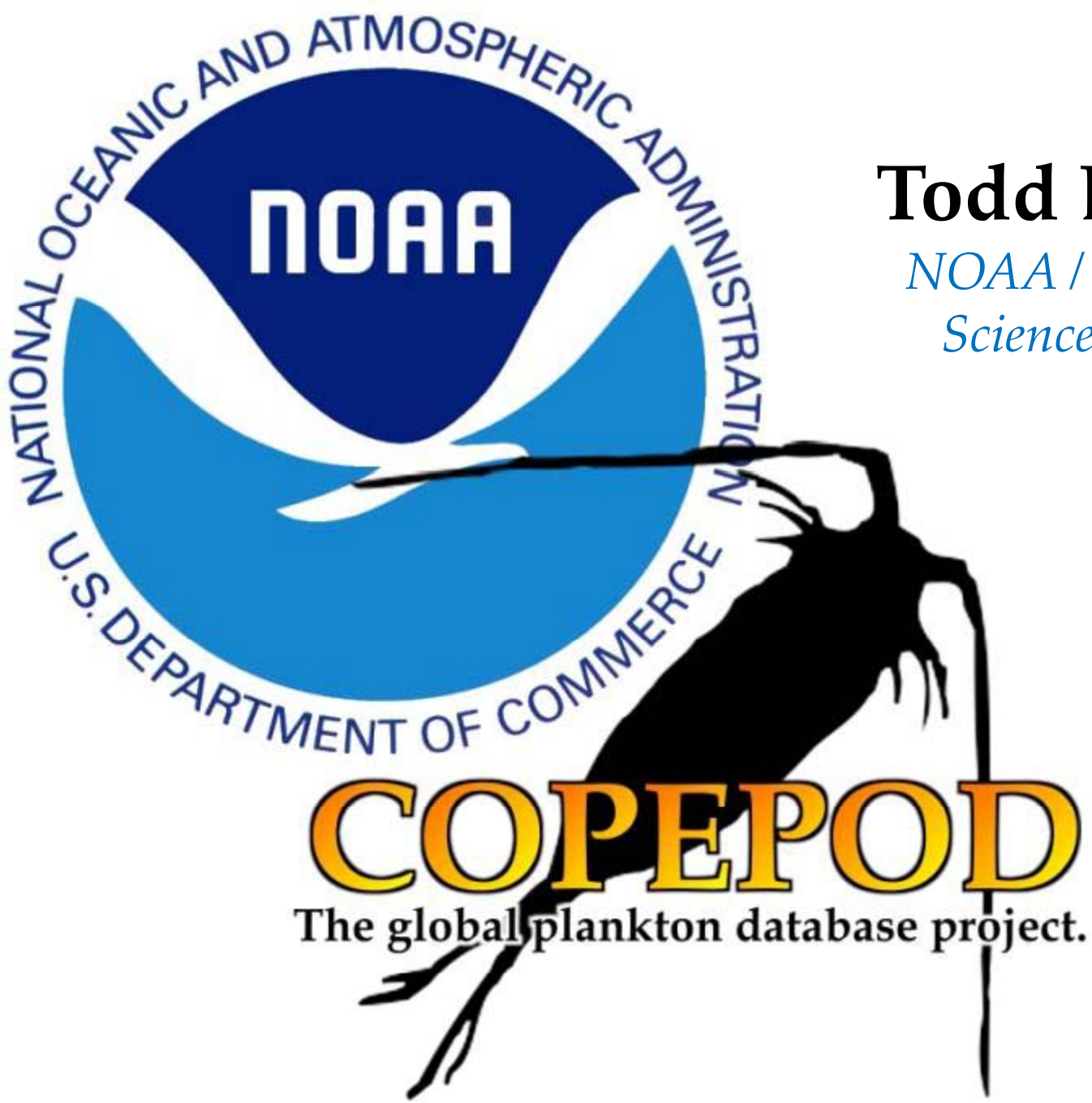
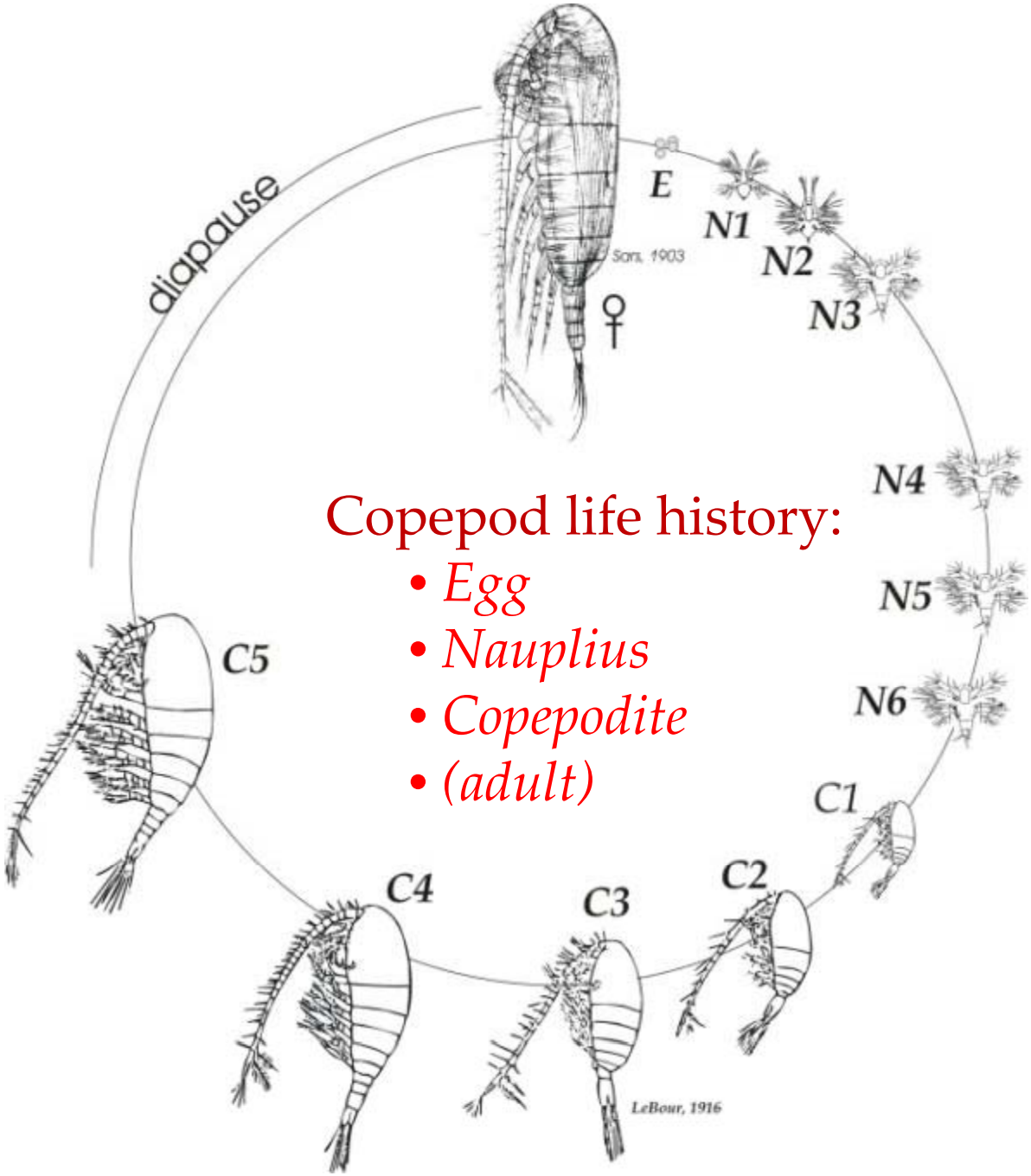
Todd D. O'Brien

NOAA / NMFS Office of Science & Technology



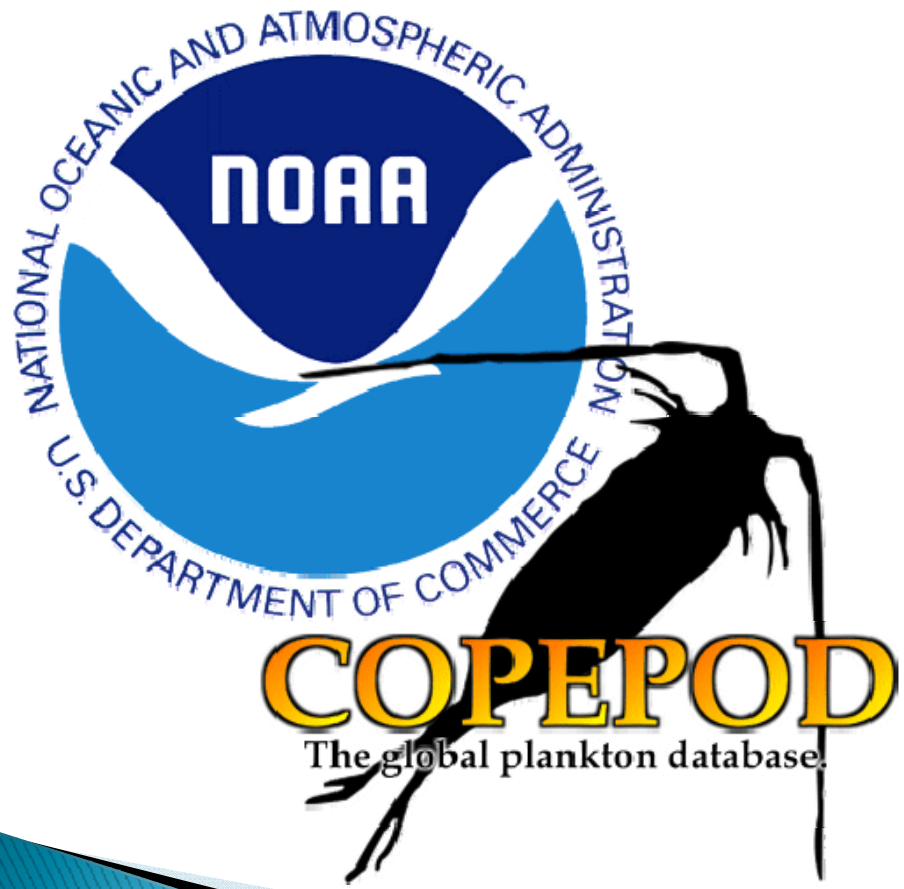
"Copepods 101"



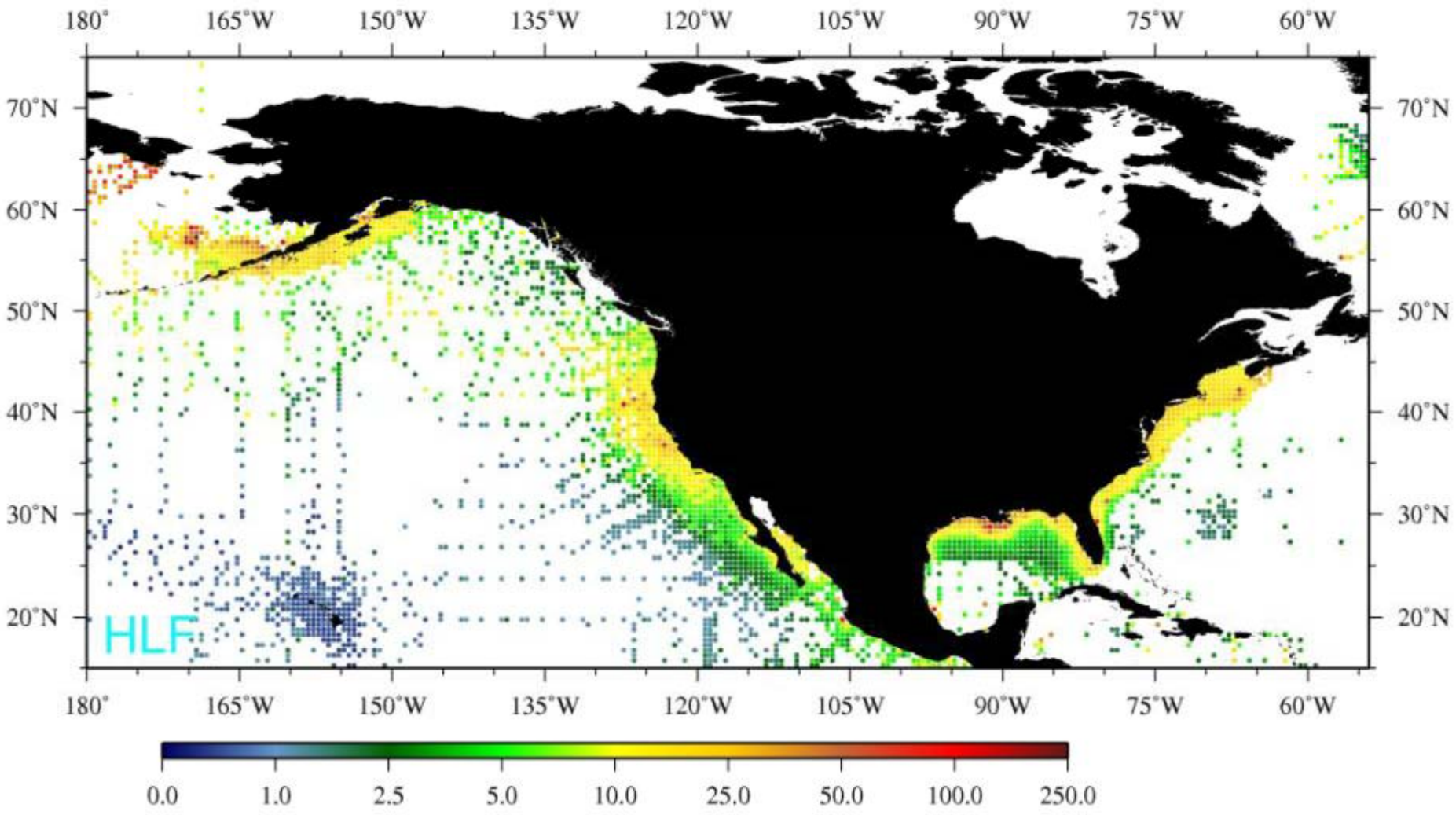
Copepod life history:

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

COPEPOD

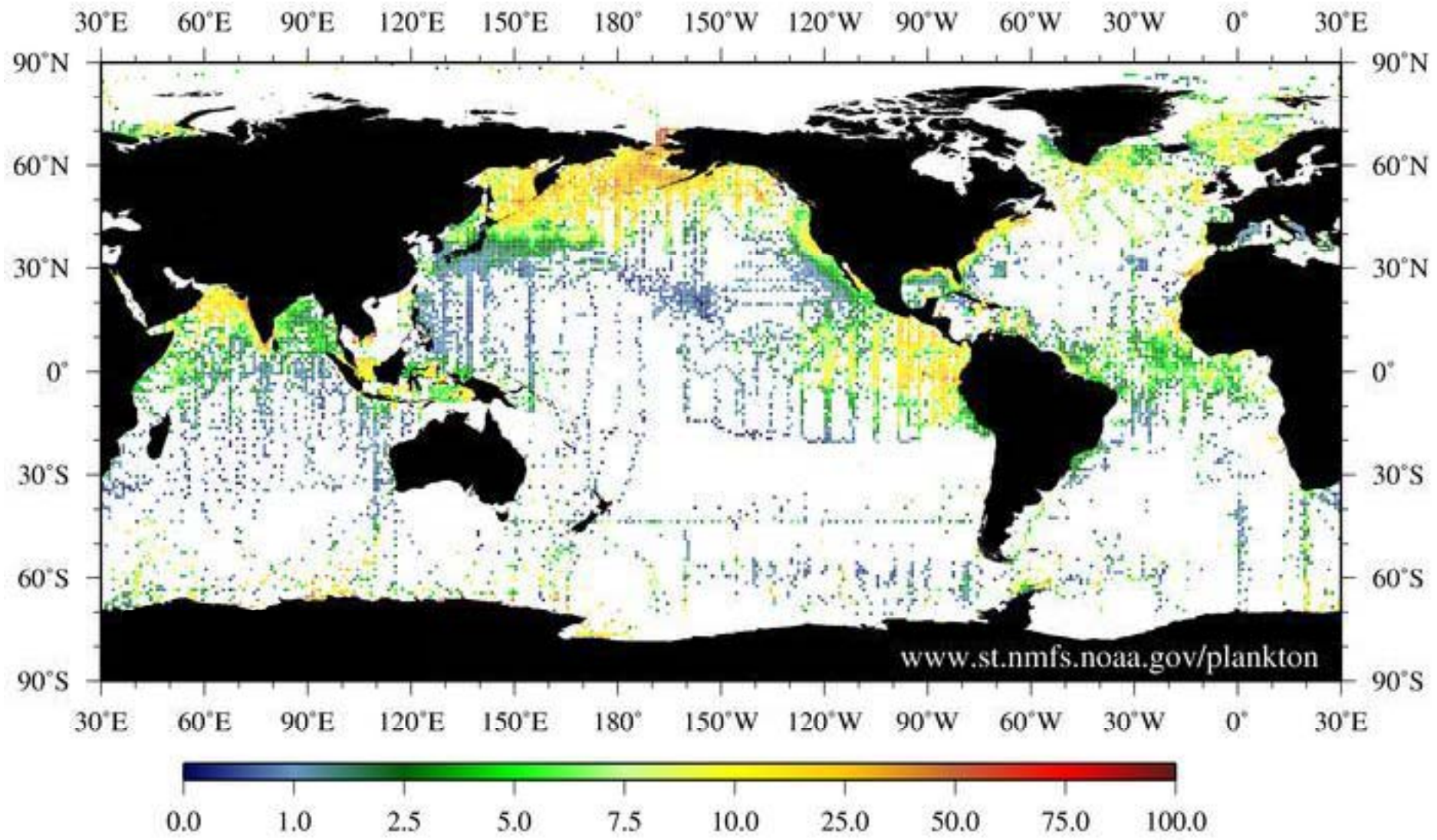


C oastal &
O ceanic
P lankton
E cology,
P roduction, &
O bservation
D atabase



Zooplankton Carbon Mass (mg-C/m^3)

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



Zooplankton Carbon Mass (mg-C/m^3)

COPEPOD

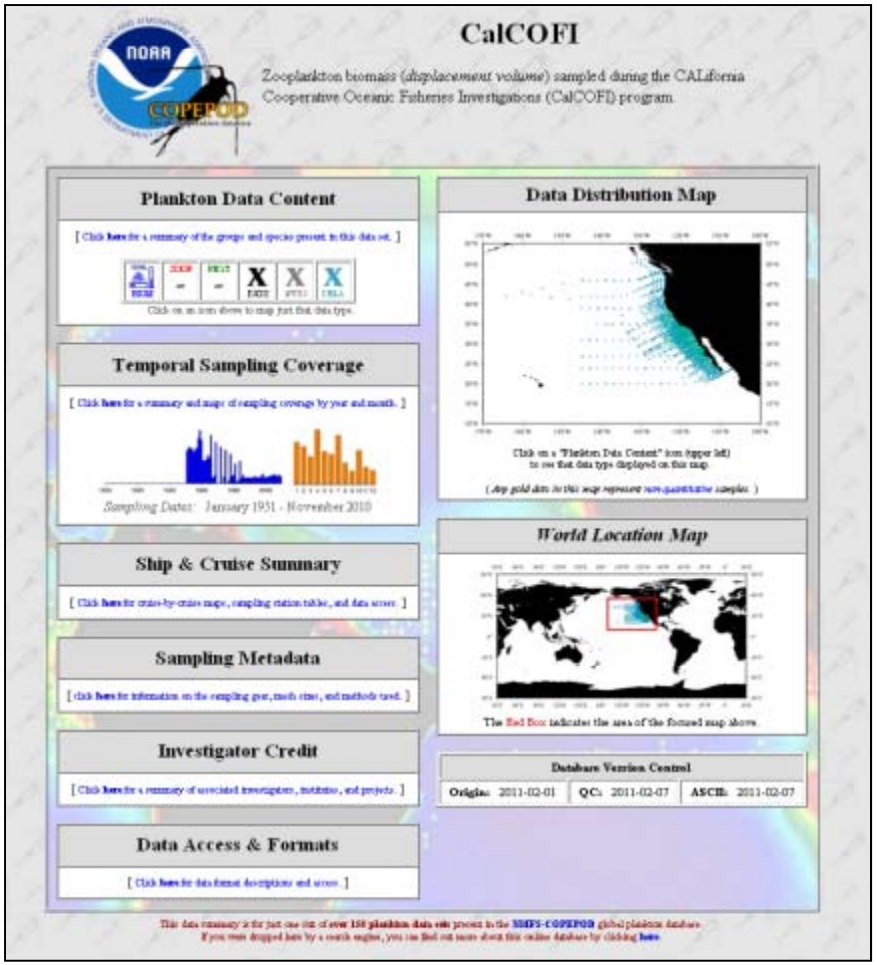
The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

- 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!

COPEPOD

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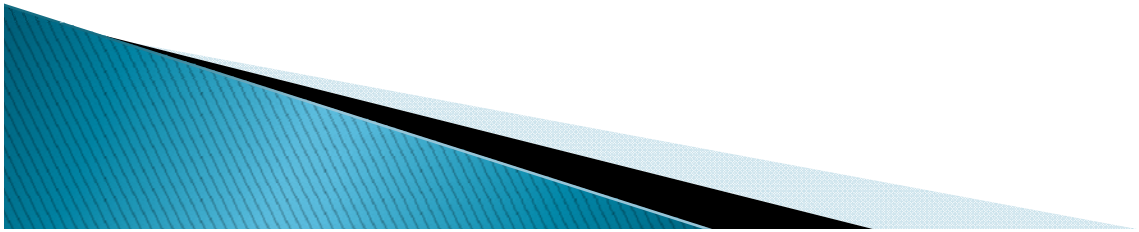
The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

- Value-added features:

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



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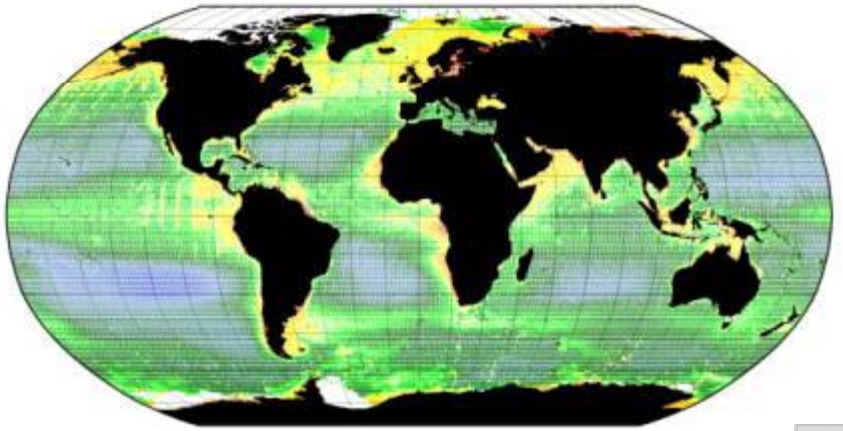
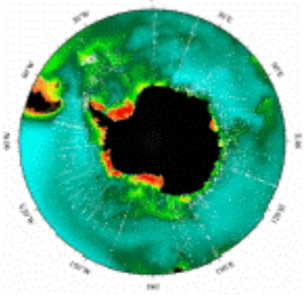
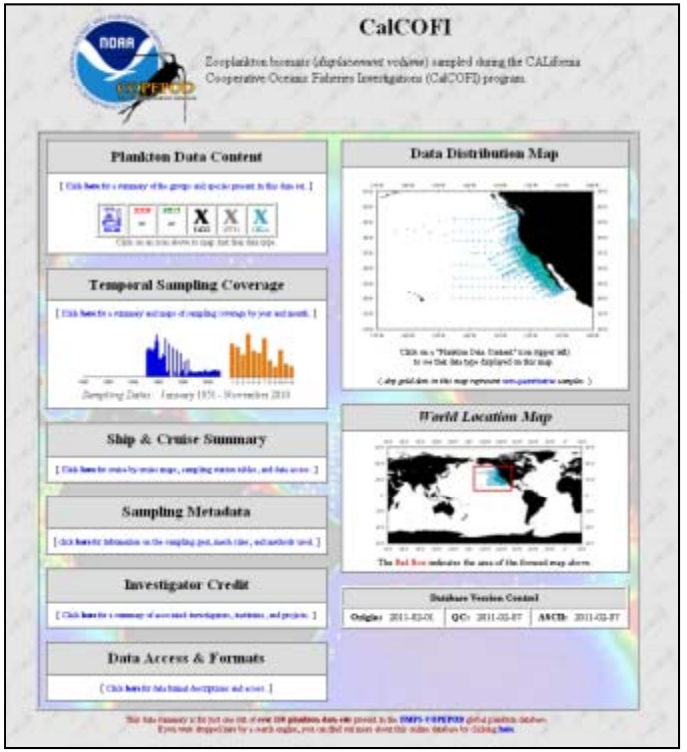
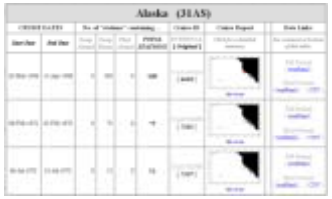
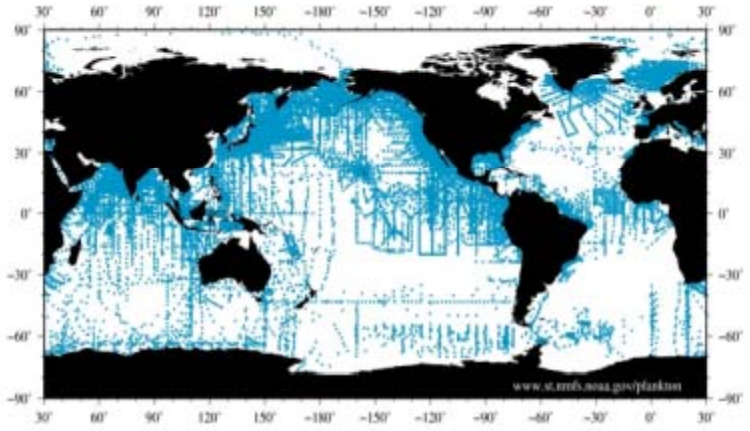
The **C**oastal & **O**ceanic **P**lankton **E**cology, **P**roduction, & **O**bservation **D**atabase

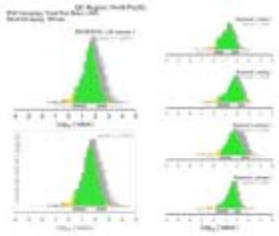


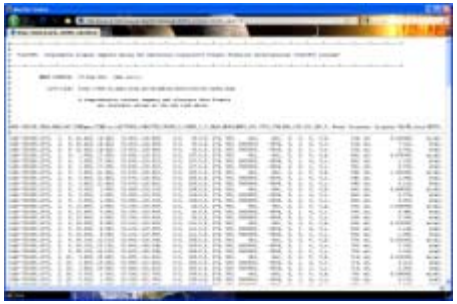










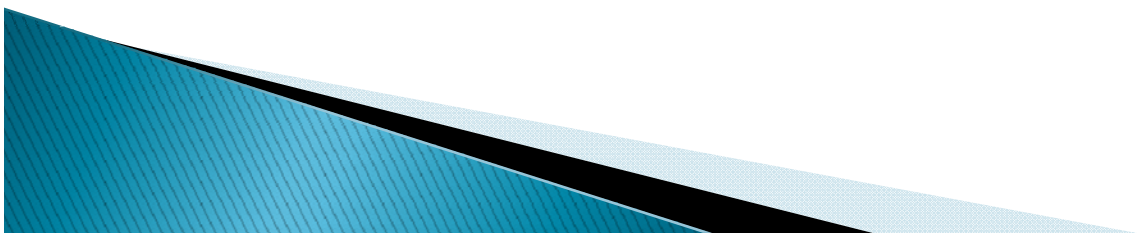


15 years in 15 seconds

- 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.



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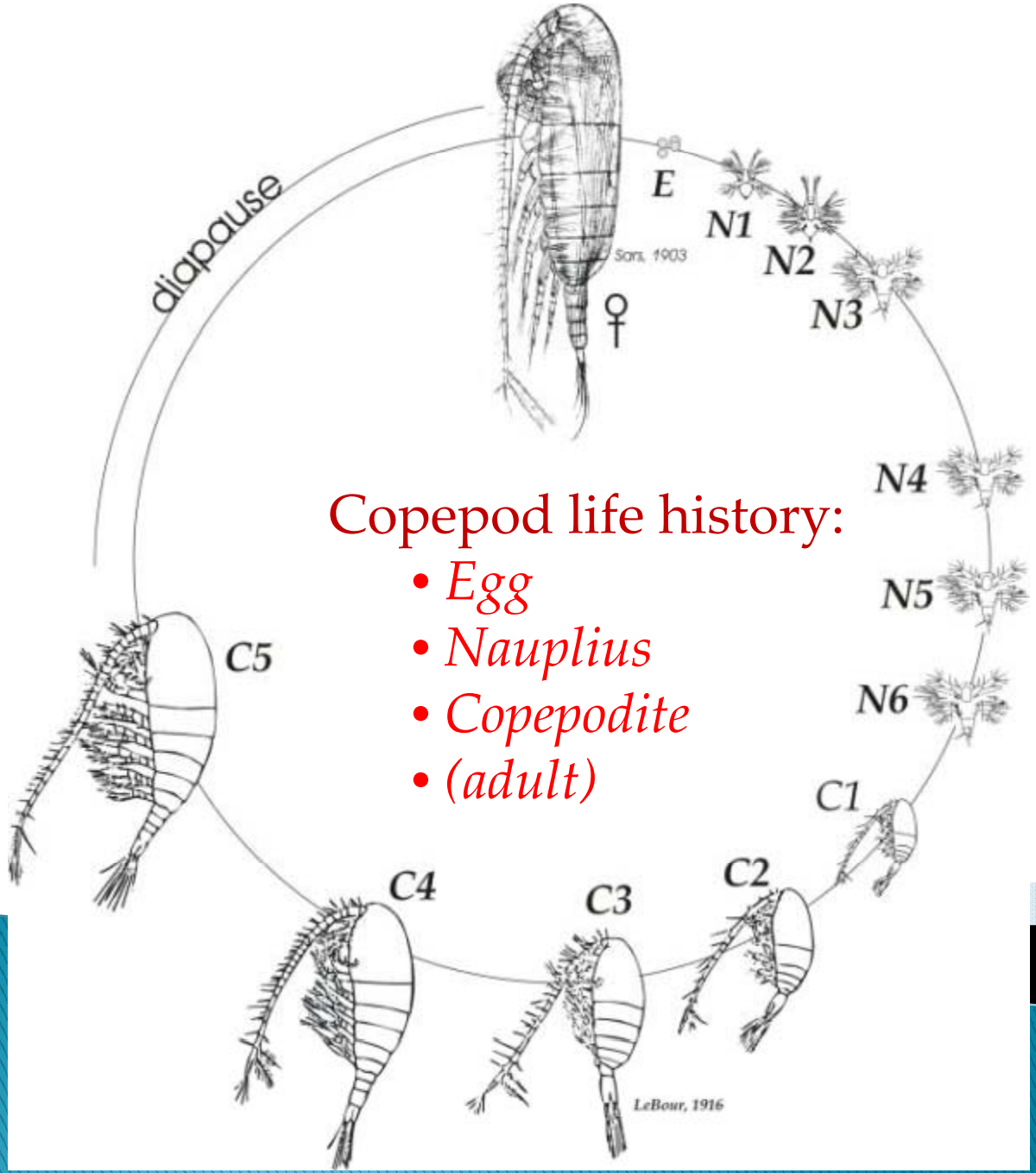

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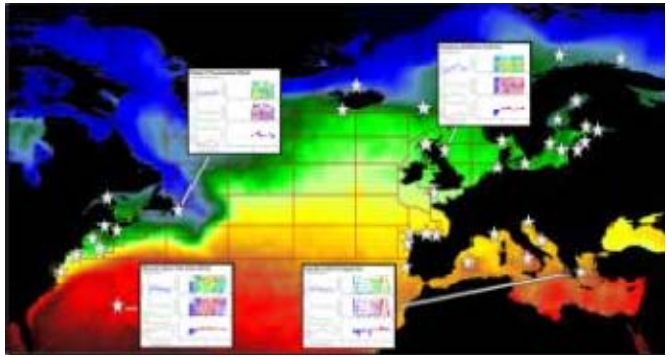
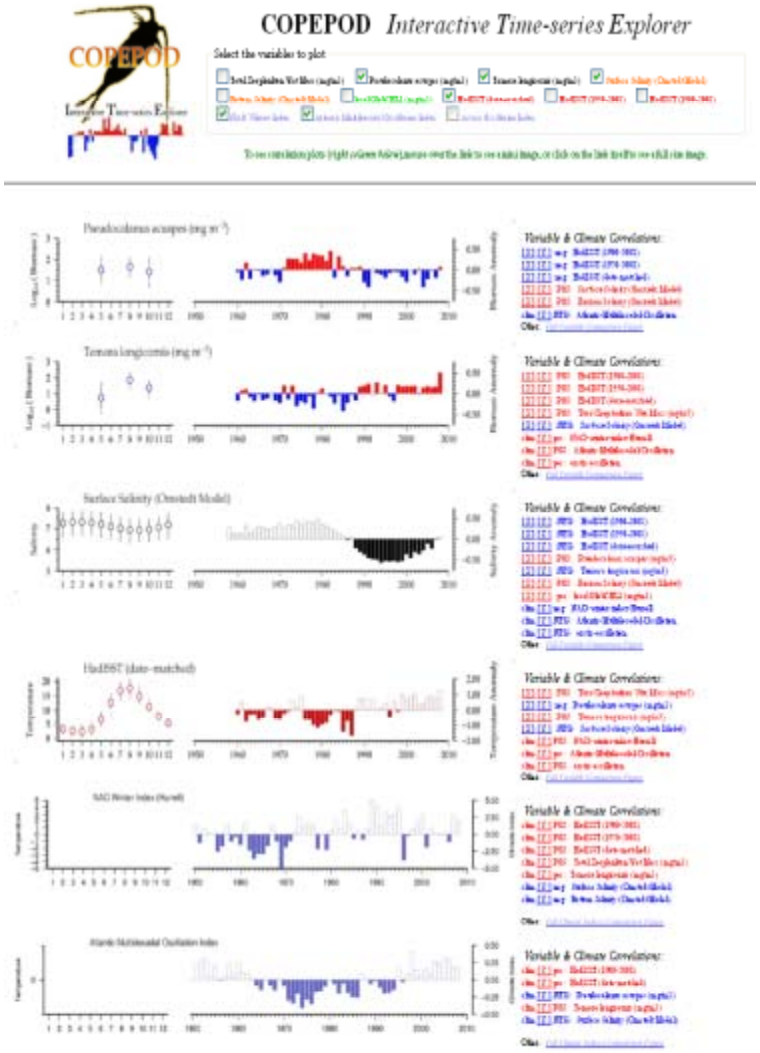
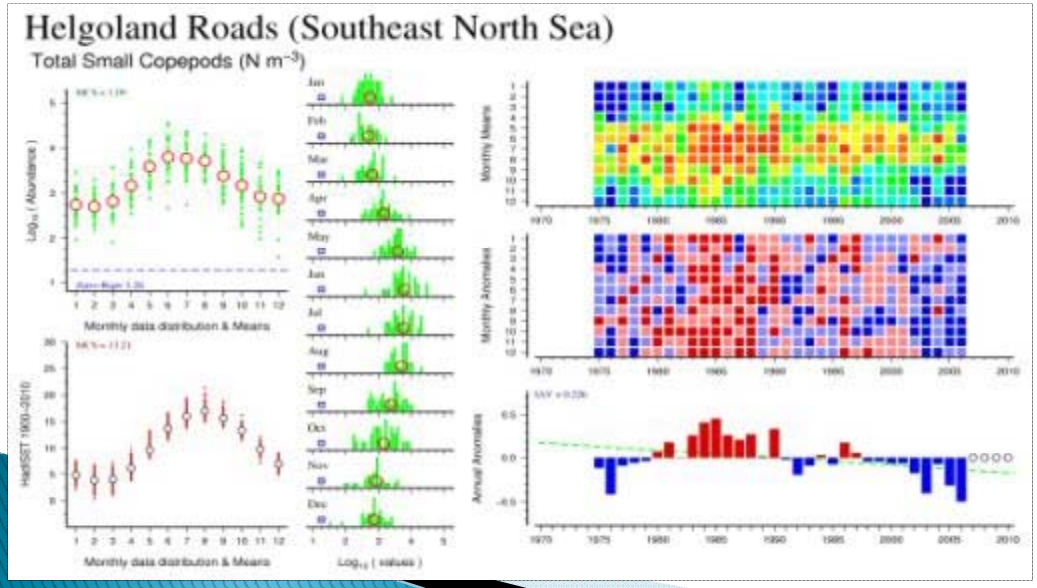
COPEPODITE

The ***COPEPOD*** ***I****nteractive* ***T****ime-series* ***E****xplorer*







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