

ICES/PICES 6ZPS 2016 / W6 (Hands-on Time Series Workshop) requesting POSTER

TITLE:

COPEPODITE: A free, online, user-friendly time series data analysis and visualization tool

NAMES:

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ABSTRACT:

The Coastal & Oceanic Plankton Ecology, Production, & Observation Database (COPEPOD) has been providing data and programming support to ICES and SCOR plankton time series working groups for over ten years. Through this collaboration, a large collection of specialized time series data analysis and visualization tools have been developed and featured in a variety of working group publications and monitoring reports. While this tool assortment was originally only available to the working group members, the full toolkit is now available online as part of COPEPOD's Interactive Time-series Explorer (COPEPODITE, <http://www.st.nmfs.noaa.gov/copepodite>). This web-based toolkit does not require an expensive software license or a savvy graduate student to install, operate, and interpret the results. With internet access and a generic web browser, a user can upload their data and quickly produce a variety of time series visualization plots and result sets. Multiple analysis modules are available to help investigate seasonal cycles, interannual trends, and to help highlight correlations between variables within a monitoring site as well as against long-term temperature, salinity, and any climate indices relevant to that site's region. Continued and ongoing collaboration with ICES, SCOR, and other time series working groups means that new tool modules entries will be added to the toolkit regularly.

Keywords:

Time series, time series analysis, time series methods, time series visualization

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