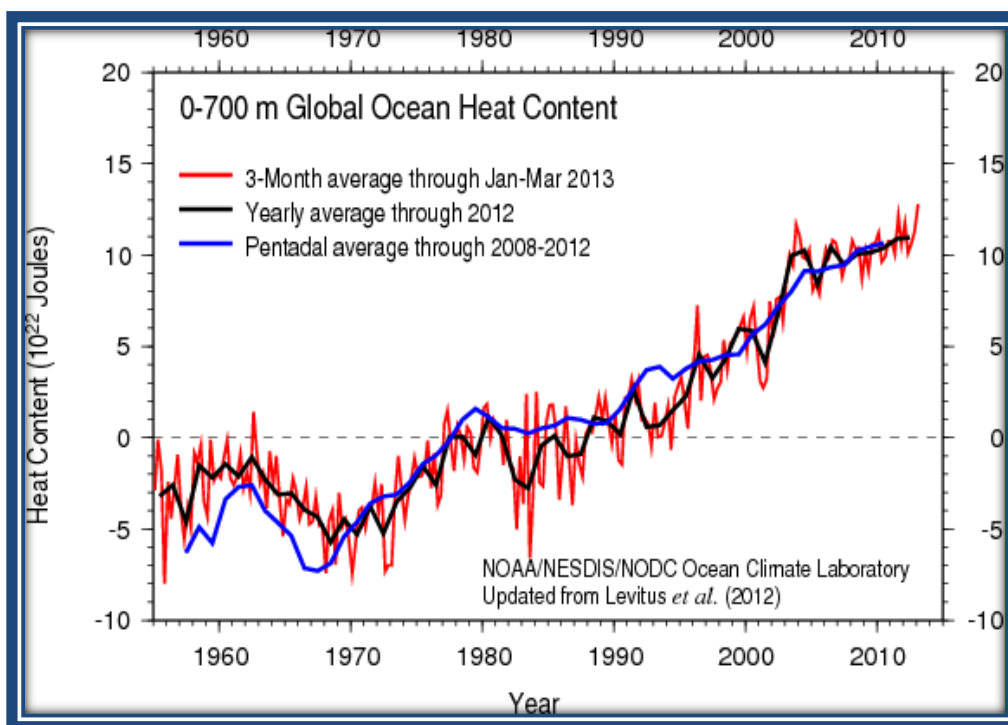


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Current References 2013-01

**Scientific Publications by Sydney Levitus**  
Chief of NODC Ocean Climate Laboratory  
& Director of World Data Center for Oceanography

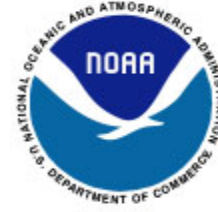


From: [http://www.nodc.noaa.gov/OC5/3M\\_HEAT\\_CONTENT/](http://www.nodc.noaa.gov/OC5/3M_HEAT_CONTENT/)

Prepared by

**Anna Fiolek and Chris Belter**  
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## **Sydney Levitus - one of NOAA's most respected and well-known scientists**

*“NOAA Researcher Leaves Ocean Warmer than He Found it 39 Years Ago...”*



Syd joined the U.S. NODC in 1989 where he has been a pioneer of ocean climate science and ocean warming studies. He has made significant contributions to the scientific and ocean data management communities. Before joining NODC he worked at the NOAA Geophysical Fluid Dynamics Laboratory (GFDL). While at GFDL Syd published “Climatological Atlas of the World Ocean” in 1982 which was based on the ocean data archived at the NODC/WDC. This work has been cited more than 2800 times in the refereed scientific literature indicating its impact and utility to the scientific community. He has also increased public understanding of the role of the oceans in climate. Syd was one of the first to recognize the importance and benefits of developing quality-controlled historical oceanographic databases with all data in a common digital format and gridded, objectively analyzed climatological fields of measured ocean variables including temperature, salinity, oxygen, nutrients, and fields derived from the data in these databases. These research-quality databases and products based on them have enabled systematic studies of ocean variability that were not previously possible. All of these products have been made available internationally without restriction, a characteristic of Syd’s work throughout his career. The "World Ocean Atlas" series are used so frequently that they have become known generically as the "Levitus Climatology". He formed the NODC Ocean Climate Laboratory (OCL) and became director of the ICSU World Data Center for Oceanography (WDC), Silver Spring. In 1993 the Intergovernmental Oceanographic Commission asked Syd to lead the newly initiated "Global Oceanographic Data Archaeology and Rescue" (GODAR) project to locate and "rescue" historical ocean profile data that were at risk of being lost due to media decay. With his OCL colleagues, and unprecedented cooperation from the international ocean scientific and data management communities, this project resulted in a significant increase (millions of profiles) in the number of Station Data, XBT, MBT, and CTD

casts for the pre-1991 period (Levitus, 2012). Syd has been the senior author or co-author of many peer reviewed scientific publications and book chapters, senior author of several NOAA professional papers and atlases, and editor of the “World Ocean Database” and “World Ocean Atlas” series of publications.

Levitus, S., 2012: The UNESCO/IOC/IODE "Global Oceanographic Data Archaeology and Rescue" (GODAR) and "World Ocean Database" projects. Data Sci. J., 11, 46-71, published online at <https://www.jstage.jst.go.jp/browse/dsj/11/0/contents>.



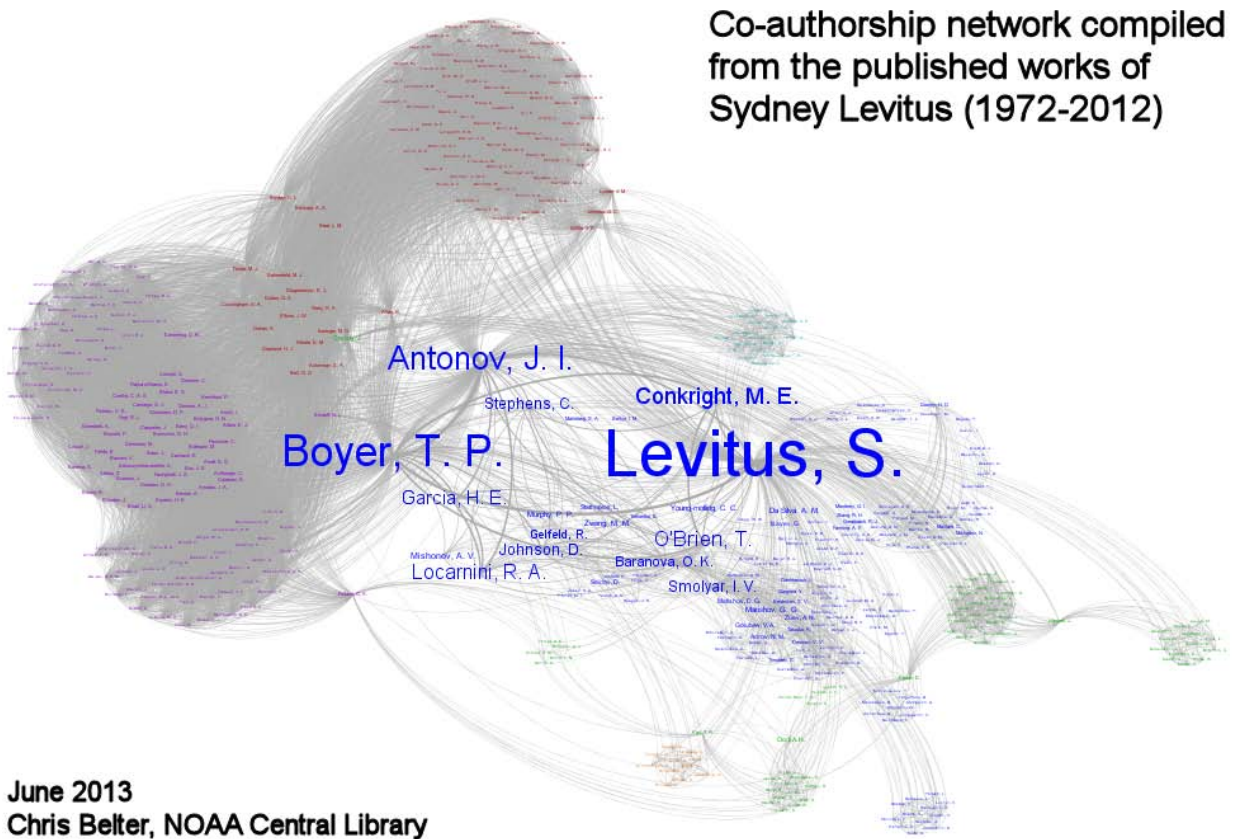
**Sydney Levitus is presented with an award - 39 Years of Service to NOAA by previous NOAA Administrator, Dr. Jane Lubchenco. Also pictured is NESDIS CFO/CAO Michael Abreu.**

For more information on Syd's career, see his [Curriculum Vitae](#)

His 39 Years of Service to NOAA – award presentation is available at:  
[http://www.nodc.noaa.gov/outreach/news\\_sydney\\_levitus.html](http://www.nodc.noaa.gov/outreach/news_sydney_levitus.html)

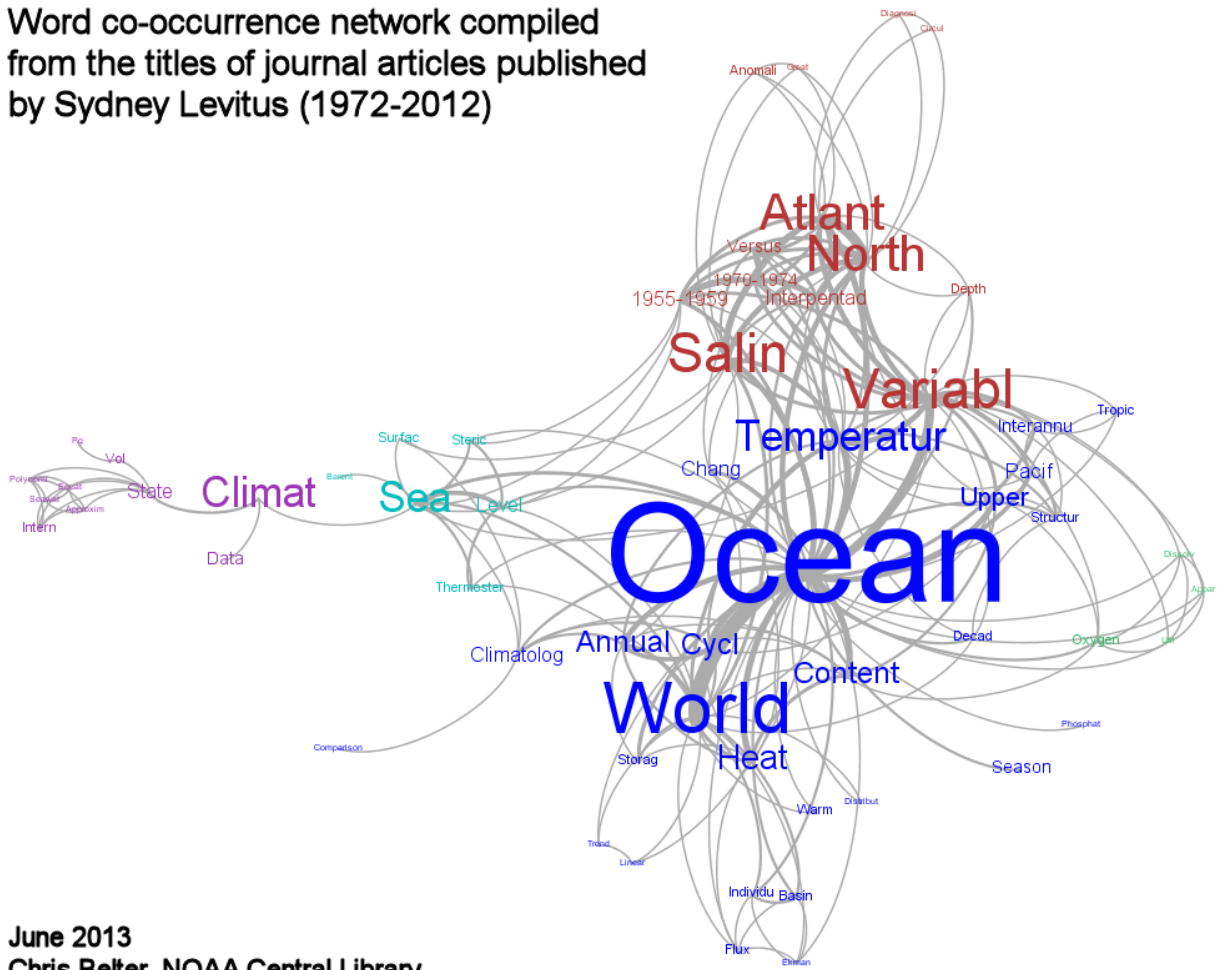
Please visit [\*\*Sydney Levitus Website\*\*](#) developed at the NOAA Central Library:  
<http://www.lib.noaa.gov/researchtools/subjectguides/levitus/>

# Bibliometric Analysis of Syd's Publications



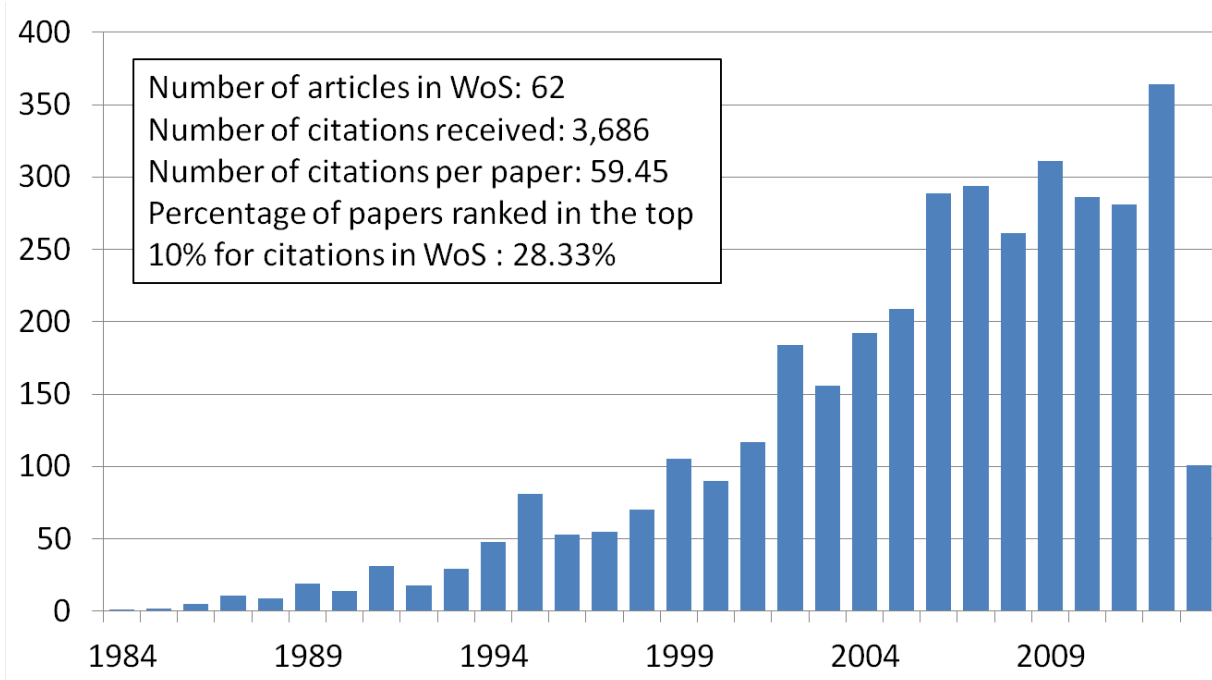
**Figure 1:** Co-authorship network compiled from Syd's scientific publications. Name size indicates the number of publications by each author and name color indicates groups of authors that tend to publish together. Lines represent co-authored publications and line size indicates the number of publications co-authored by the connected authors.

Word co-occurrence network compiled from the titles of journal articles published by Sydney Levitus (1972-2012)

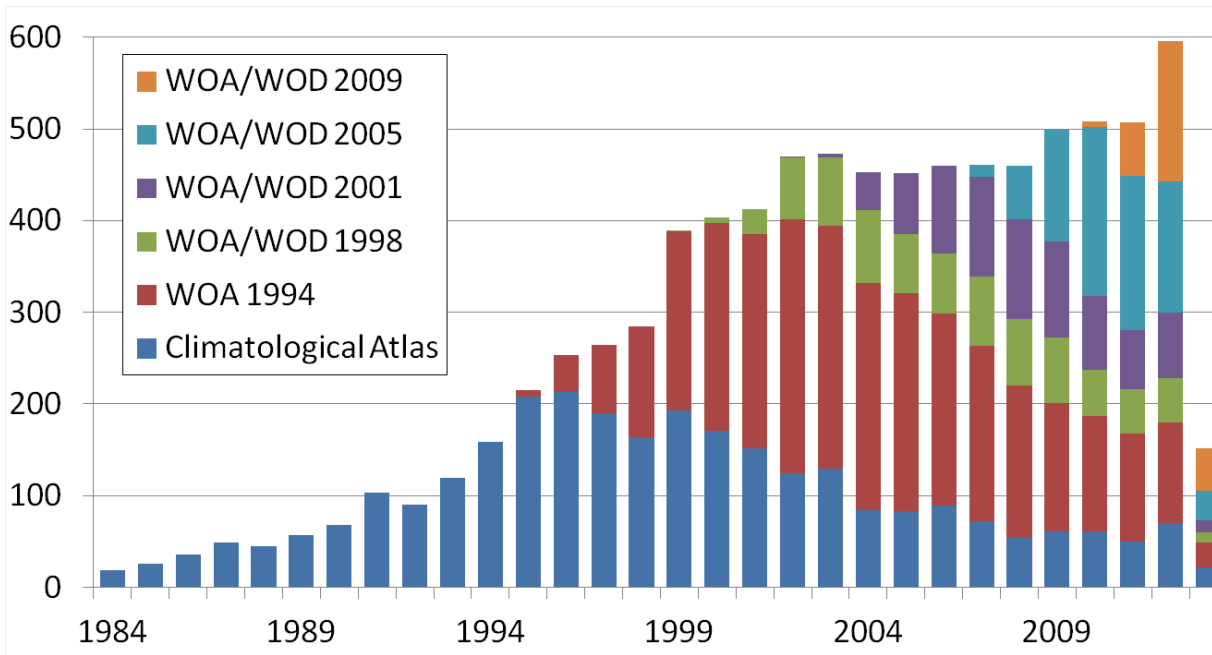


June 2013  
Chris Belter, NOAA Central Library

**Figure 2:** Word co-occurrence network compiled from the titles of Syd's journal articles. Word size indicates the number of articles in whose titles the word appears and word color indicates groups of words that often appear in the same titles. Lines represent words that appear together in at least three articles and line size indicates the number of articles in which the words co-occur.



**Figure 3:** Citation counts received by Syd's journal articles in Web of Science (WoS) per year. These counts are accurate as of June 12, 2013.



**Figure 4:** Citation counts received by all versions of the World Ocean Atlas (WOA) and World Ocean Database (WOD) in Web of Science per year. Together, these atlases and databases have been cited over 8,500 times. These counts are accurate as of June 12, 2013.

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(Prepared at the NOAA Central Library, Silver Spring, June 2013)

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