

National Oceanic and Atmospheric Administration  
US Department of Commerce

# An Analysis of Publications by NOAA Authors Published in FY2012

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*Publications Compiled by Chris Belter, Sarah Davis, Jan Thomas, and  
Christie Wiley: NOAA Central and Regional Libraries*

*Analysis by Chris Belter: NOAA Central Library*

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## About this Report

Starting in FY2012, the NOAA Central and Regional Libraries began to collect publications by NOAA authors to assist in the reporting of NOAA’s balanced scorecard metric “number of peer-reviewed publications.” Publications were collected by searching the “Address” field in the Web of Science, Science Citation Index Expanded database (WoS) for mentions of NOAA or NOAA research groups. The resulting publications were manually verified for accuracy and assigned to research groups based on the authors’ affiliations listed in the internal version of the NOAA staff directory. Article publication date was based on that of the journal volume/issue in which the article was published, not on the date the article may have been published online prior to its final inclusion in a volume/issue. These publications were then compiled into an internal database.

This report attempts to summarize the publications collected during the first year of this process. A set of 1,769 articles published by NOAA authors during FY2012 was generated from our database and analyzed using data derived from WoS to identify their production over time, intramural and extramural collaborations, and major research topics. These analyses were accurate as of 19 November 2012.

The publication counts presented in this report are undercounts of the actual number of publications produced by NOAA. Use of WoS for publication collection means that book chapters, technical reports, and some journal articles are not included in this analysis. Due to the lag time between article publication and inclusion in WoS, these numbers will rise somewhat over time as WoS is updated. Because of the search method used, publications by NOAA authors who did not list their NOAA affiliation are not included in this analysis. Despite these limitations, we estimate that the publications analyzed here represent 80-90% of all peer-reviewed publications produced by NOAA during FY2012. Questions about this report should be addressed to Chris Belter ([Chris.Belter@noaa.gov](mailto:Chris.Belter@noaa.gov)).

## Contents

About this Report.....	2
Productivity.....	3
Collaboration.....	5
Research Topics .....	7

## Productivity

### Number of Publications per Quarter (FY12)

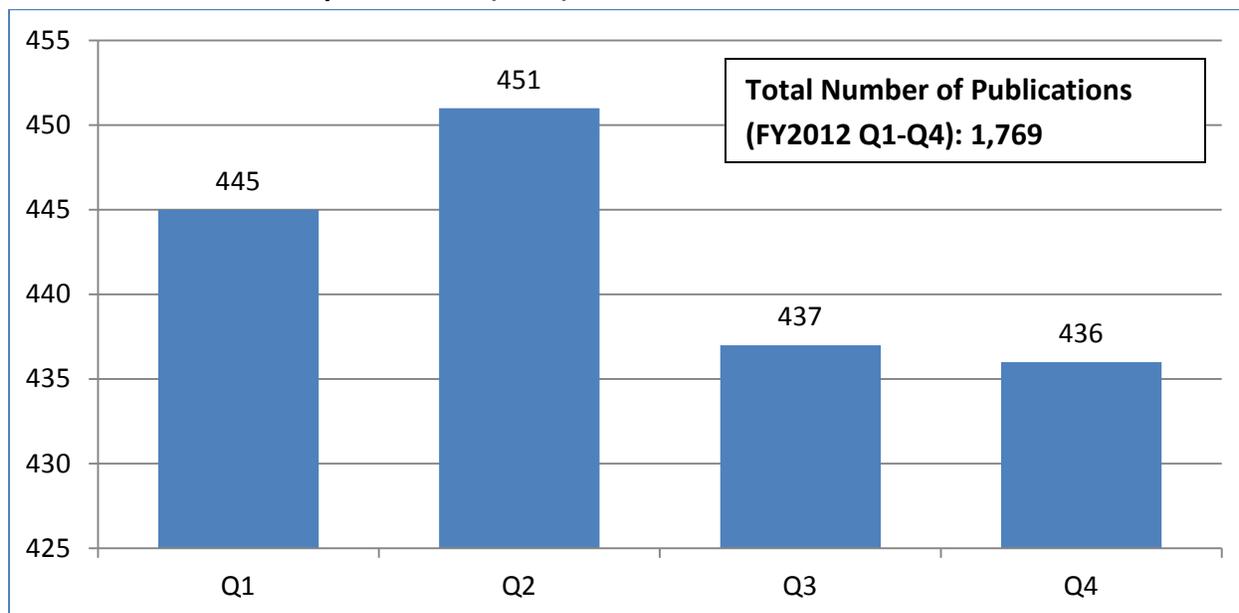


Figure 1: Total number of articles published by NOAA authors by quarter of FY12.

### Number of Publications per Month (FY12)

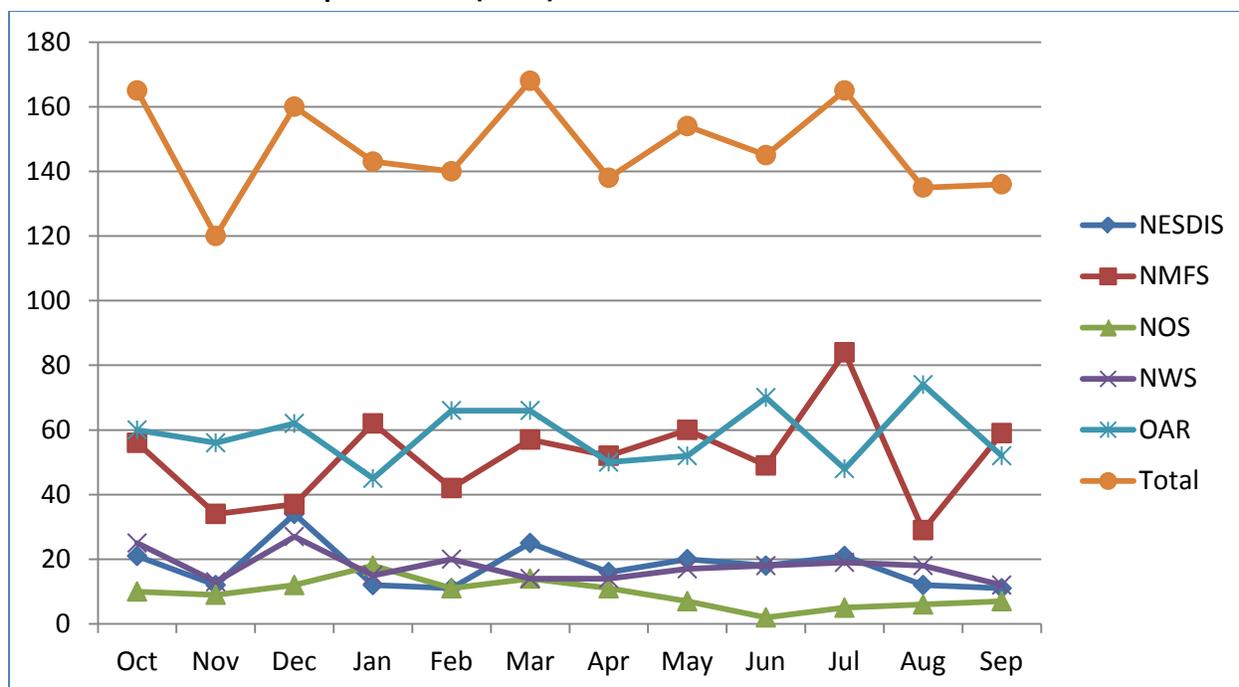
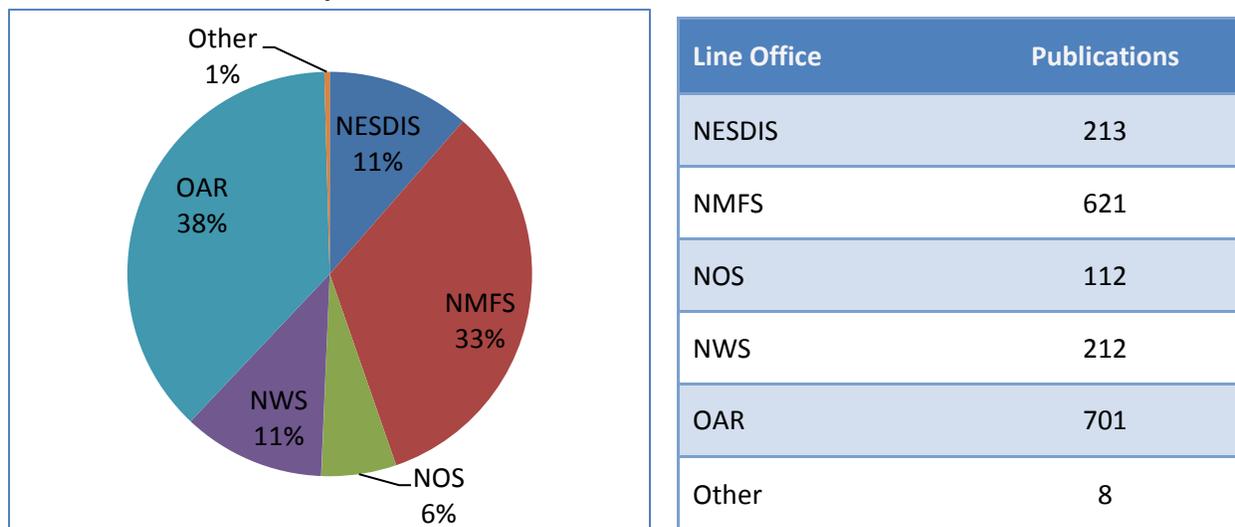


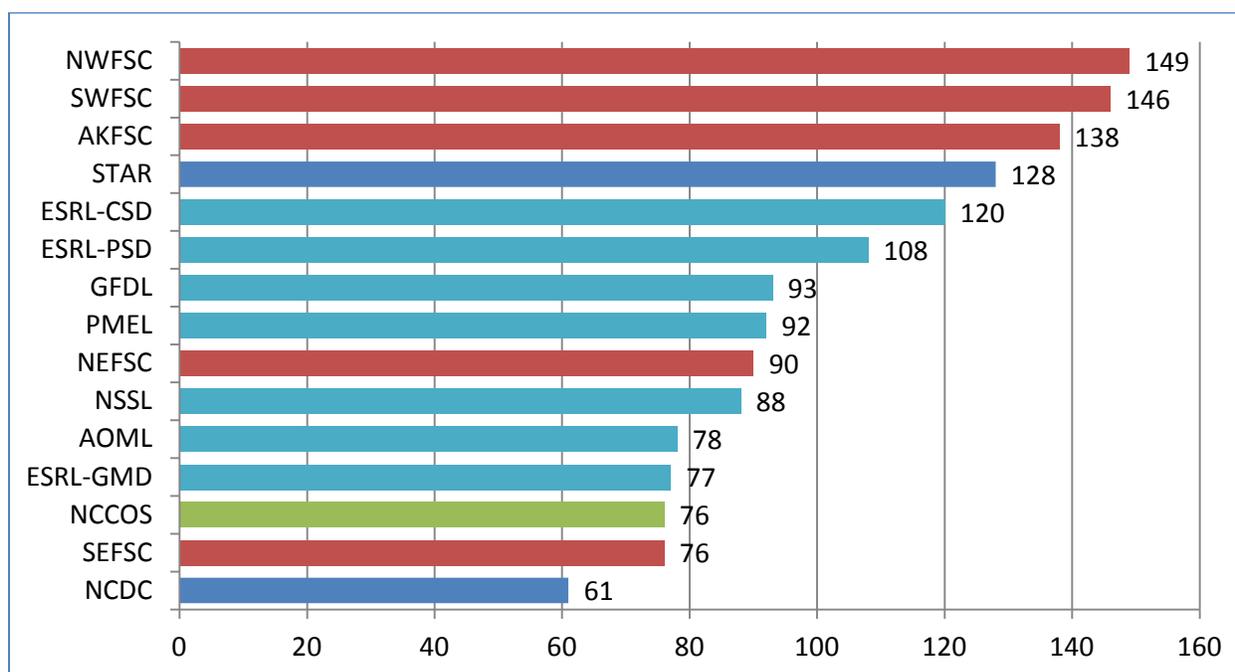
Figure 2: Number of articles published per month of FY12 by line office and for all of NOAA. Collaborative publications between line offices are counted as whole publications for each line office.

### Number of Publications per Line Office



**Figure 3:** Number of articles published per line office for all of FY12. Collaborative publications between line offices are counted as whole publications for each line office.

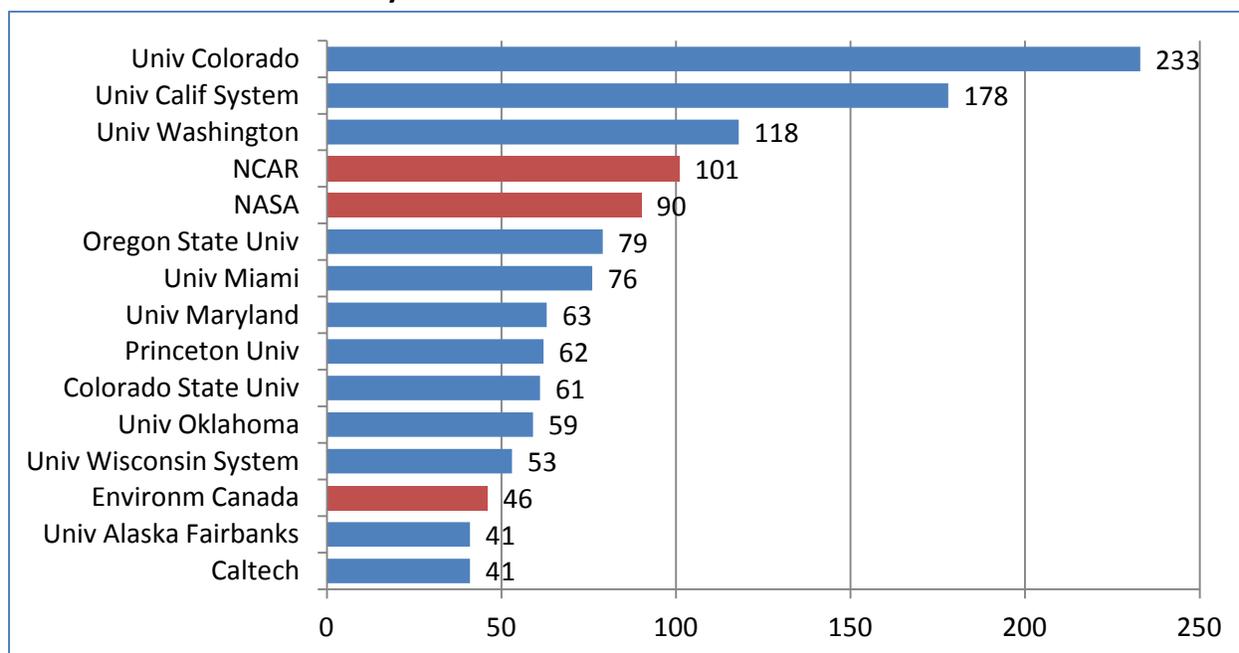
### Number of Publications per Research Group



**Figure 4:** Number of publications produced per research group. Bars are color-coded by line office: NESDIS is blue, NMFS is red, NOS is green, and OAR is teal. Collaborative publications between research groups are counted as whole publications for each research group. Only the 15 most productive research groups are shown.

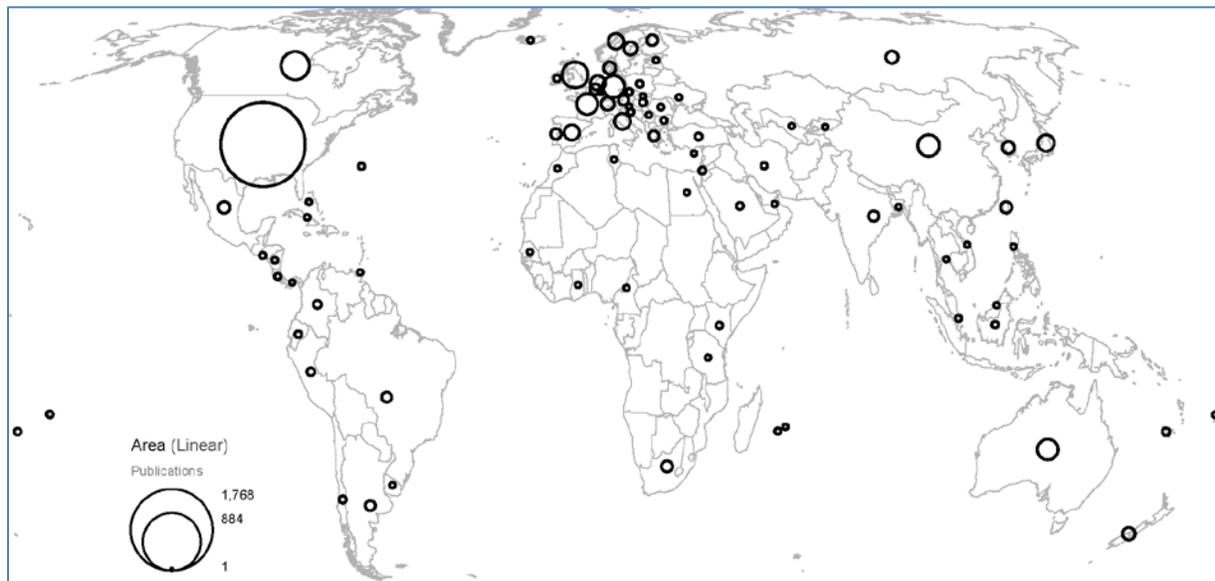


### Extramural Collaboration – by Institution



**Figure 6:** Number of publications co-authored with NOAA authors by institution. Bar color indicates institution type; blue is university and red is governmental. Only the top 15 institutions are shown.

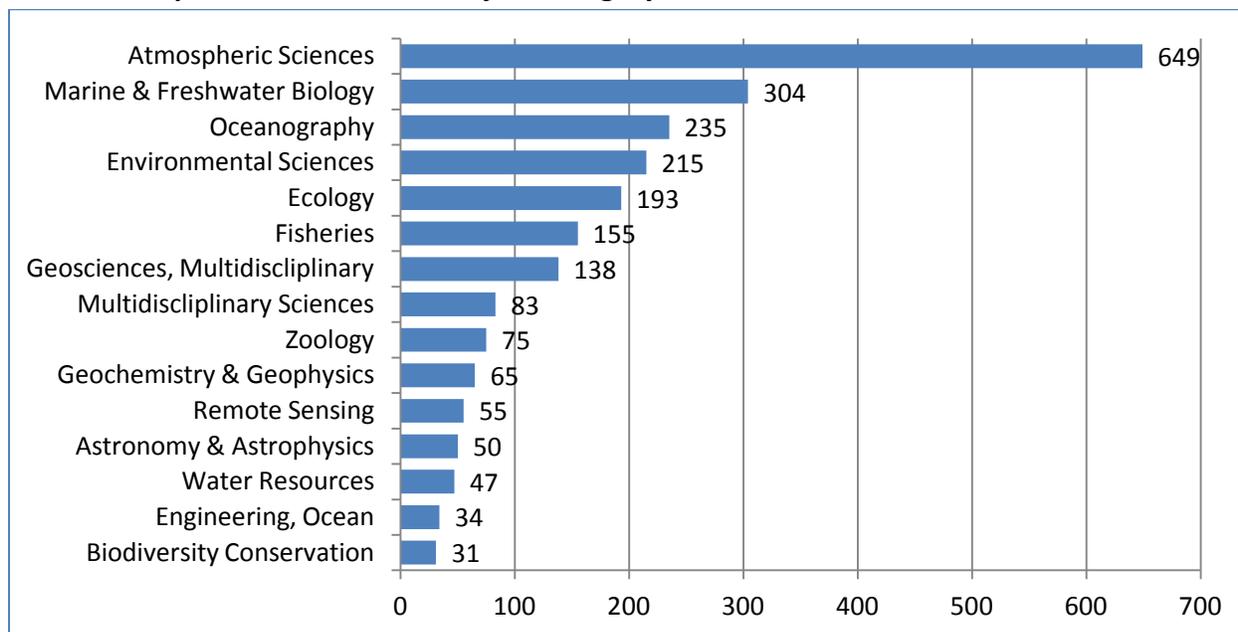
### Extramural Collaboration – by Country



**Figure 7:** Number of publications co-authored with NOAA authors by country. Circle size indicates the number of articles co-authored with researchers from each country. Outside the US, NOAA authors most frequently collaborate with authors from Canada (170 articles), the United Kingdom (142), Germany (96), China (94), and France (86).

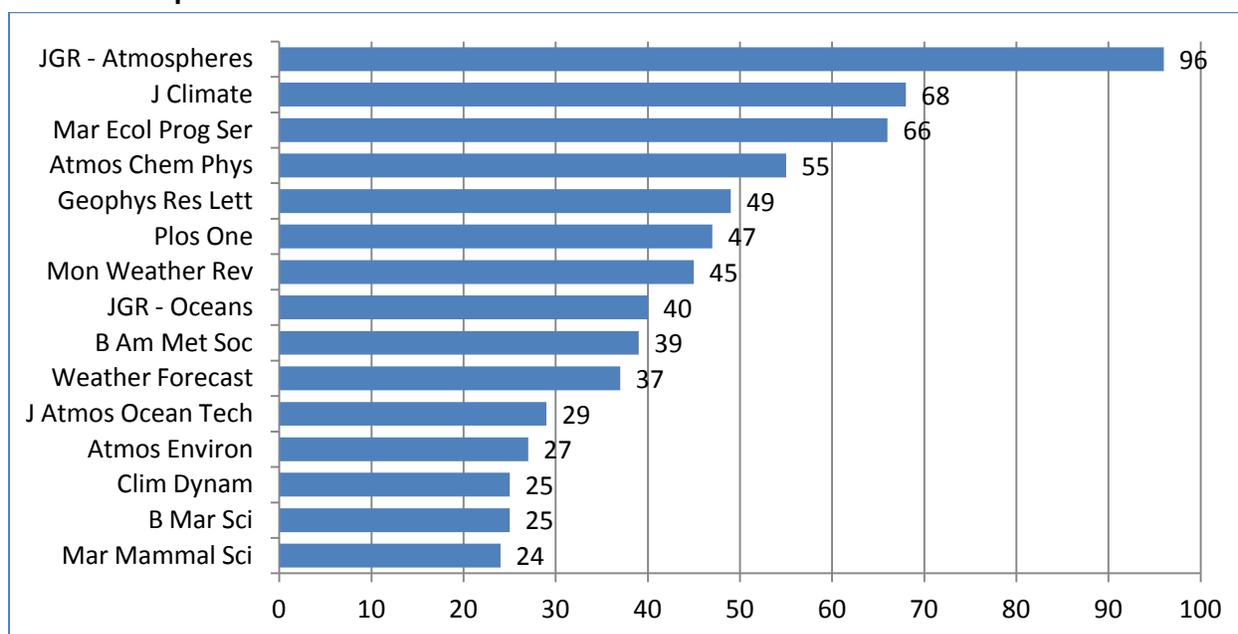
## Research Topics

### Publications per Web of Science Subject Category



**Figure 8:** Number of NOAA publications per WoS-defined subject category. Categories are assigned to articles automatically by WoS based on the journal in which each article was published. Articles published in some journals are assigned to multiple subject categories by WoS; these articles are counted multiple times in this figure. Only the top 15 subject categories are shown.

### Publications per Journal



**Figure 9:** Number of NOAA publications per journal. Only the top 15 journals are shown.



