

Using Bibliometrics to Demonstrate the Value of Library Journal Collections

Christopher W Belter, NIH Library

Neal K Kaske, NOAA Central Library

2014 Library Assessment Conference

Purpose

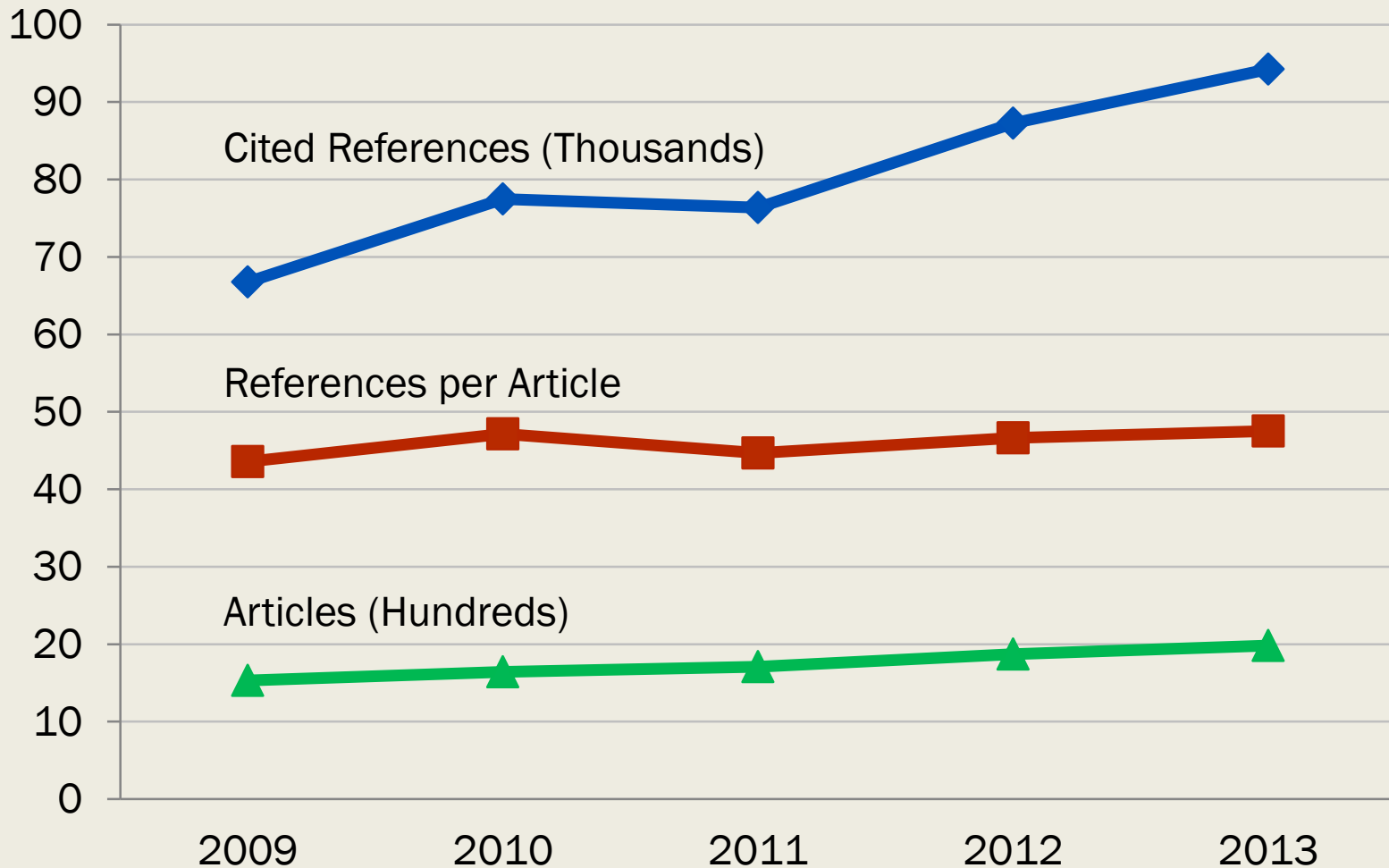
Analyze cited references of NOAA-authored articles to:

- Demonstrate the value of library collections
- Learn about the information needs of NOAA authors
- Justify collection development decisions

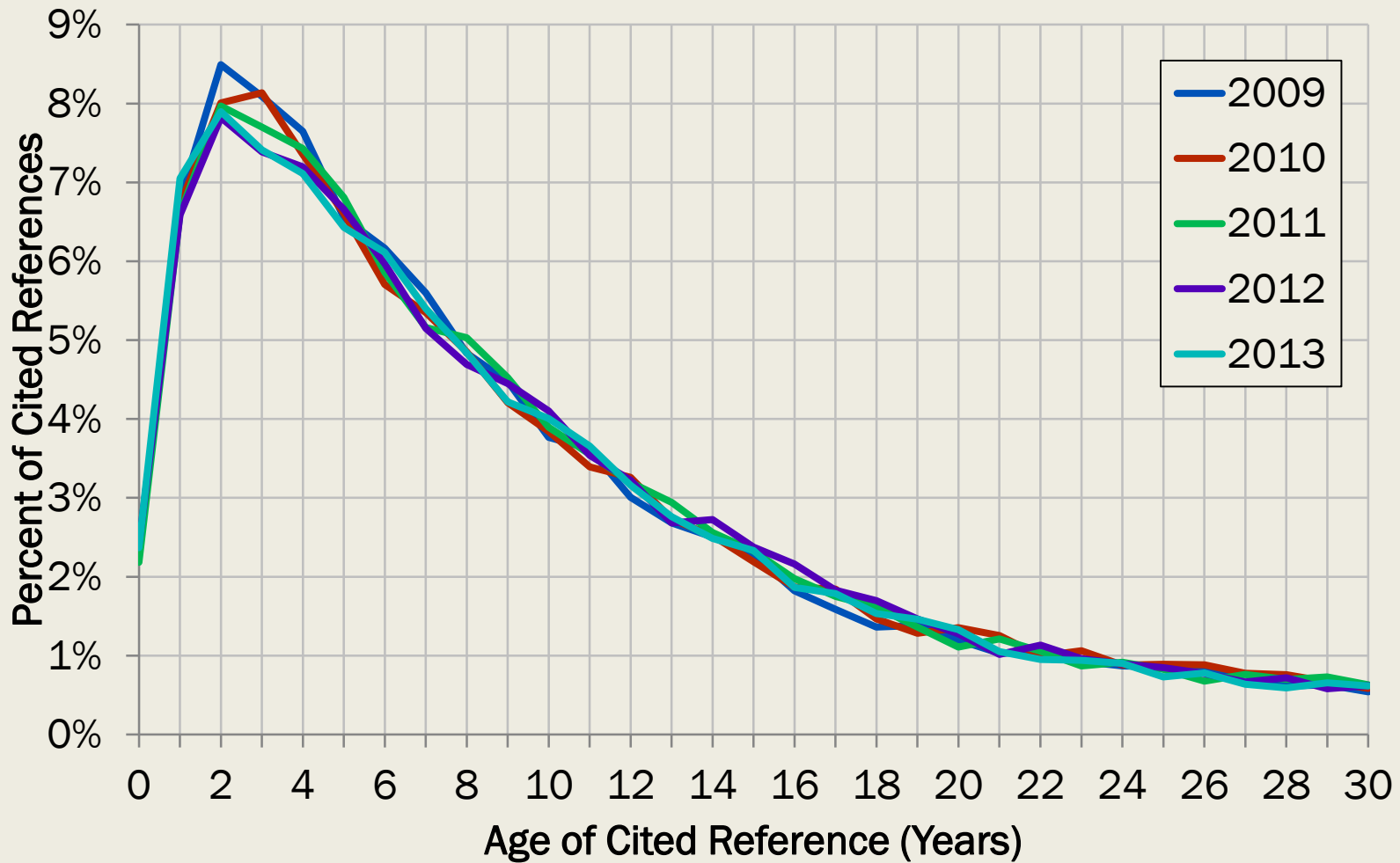
Methodology

1. Identify articles by NOAA authors published from 2009 to 2013 in Web of Science
2. Download cited references for all articles identified
3. Analyze cited references per year and per journal
4. Construct journal co-citation networks for each year

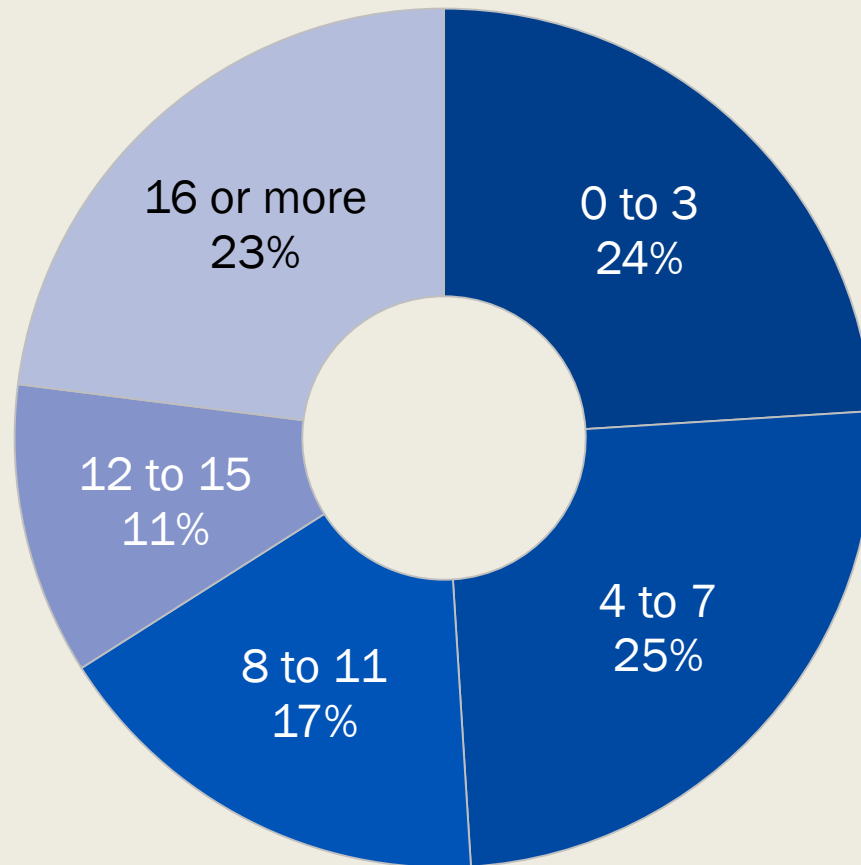
Summary of Data Collected



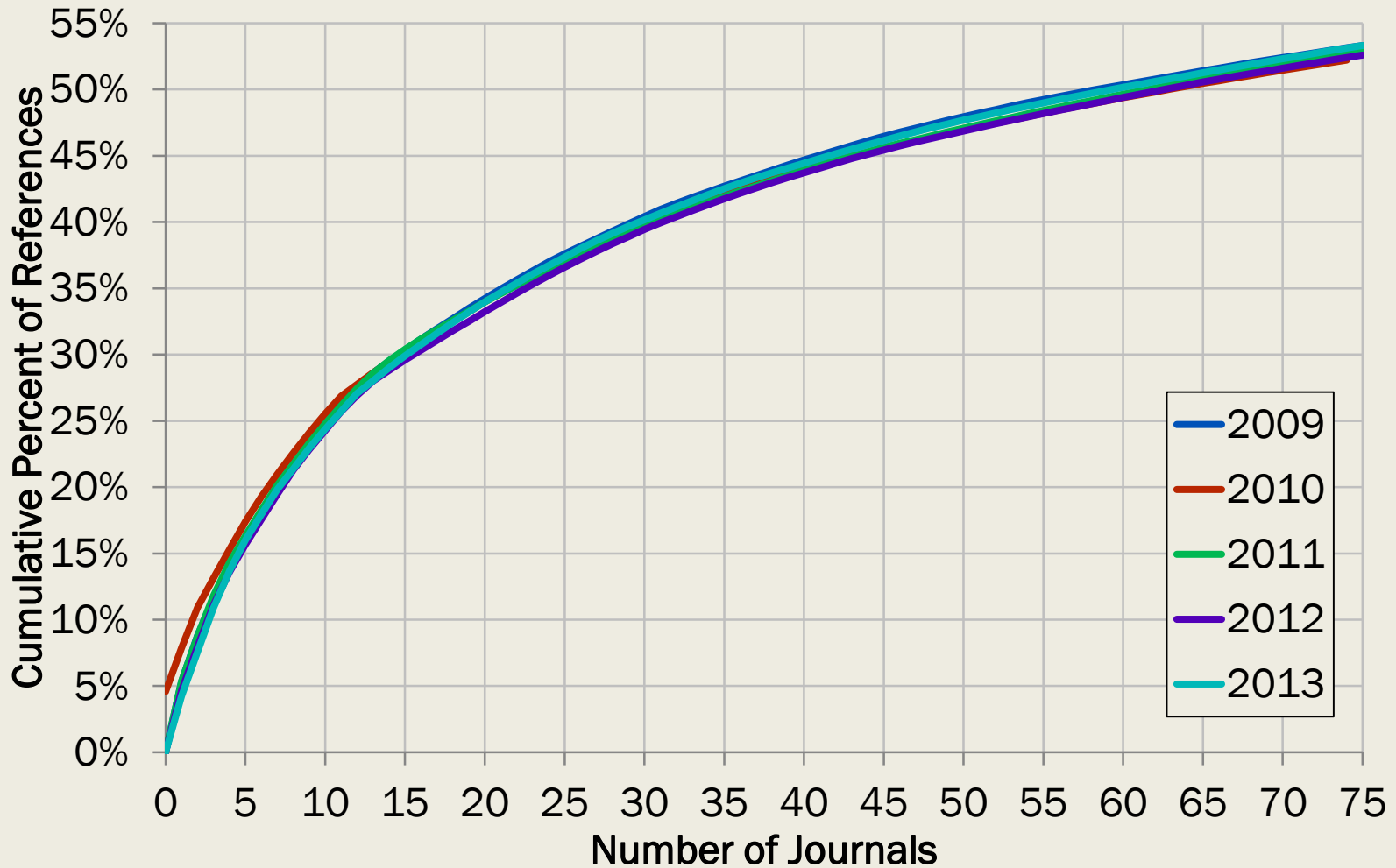
Age Distribution



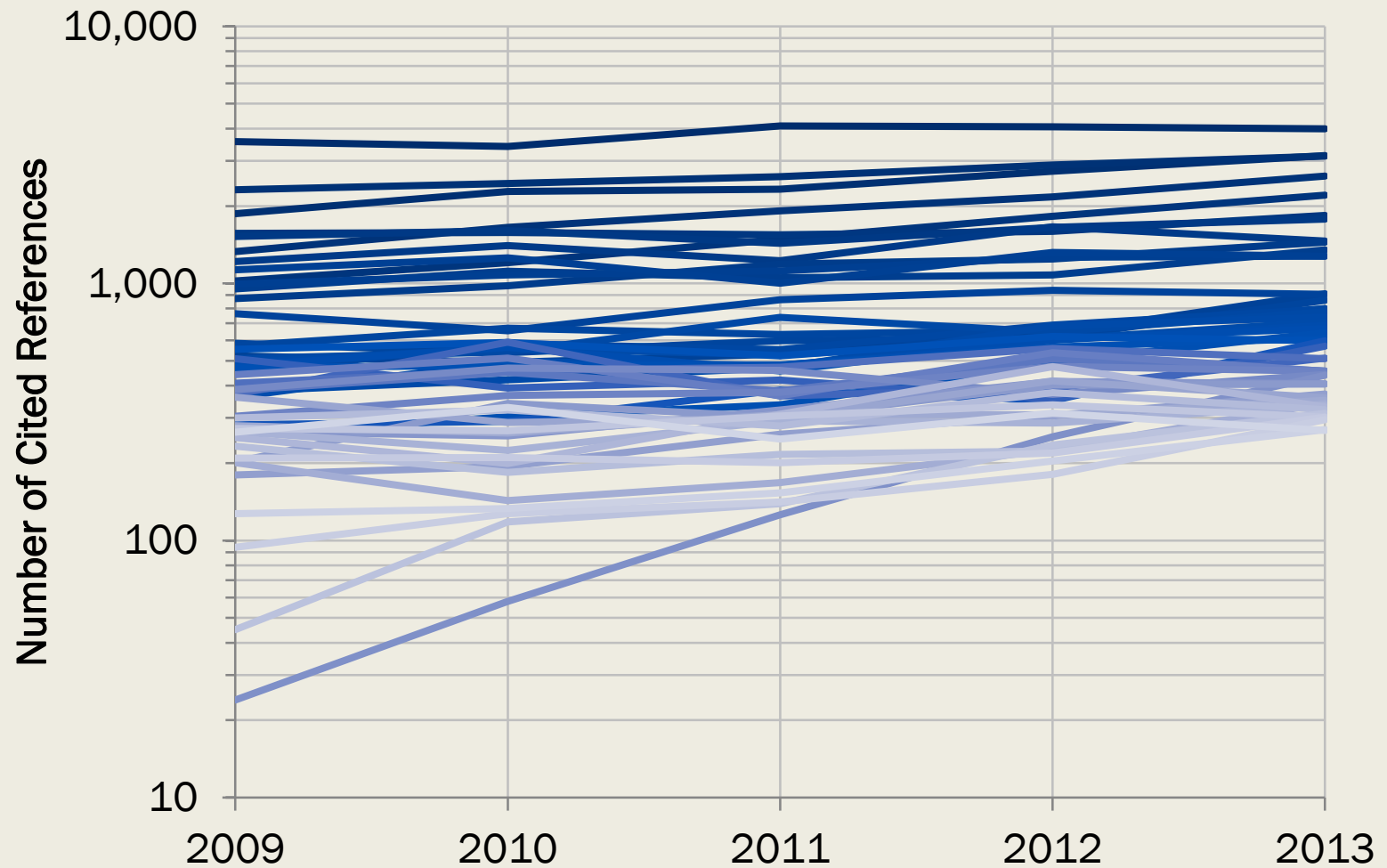
Age Distribution



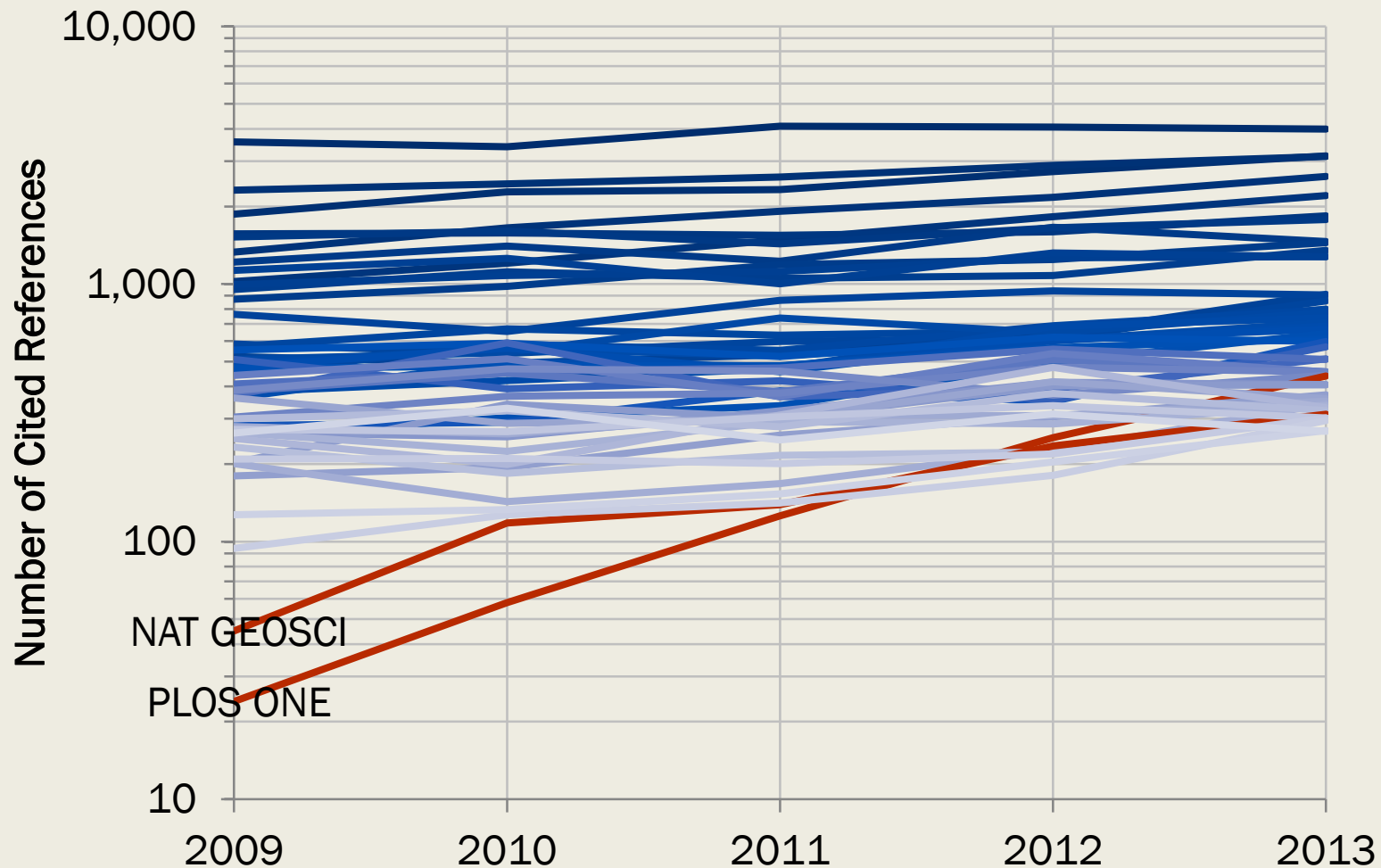
Journal Distribution



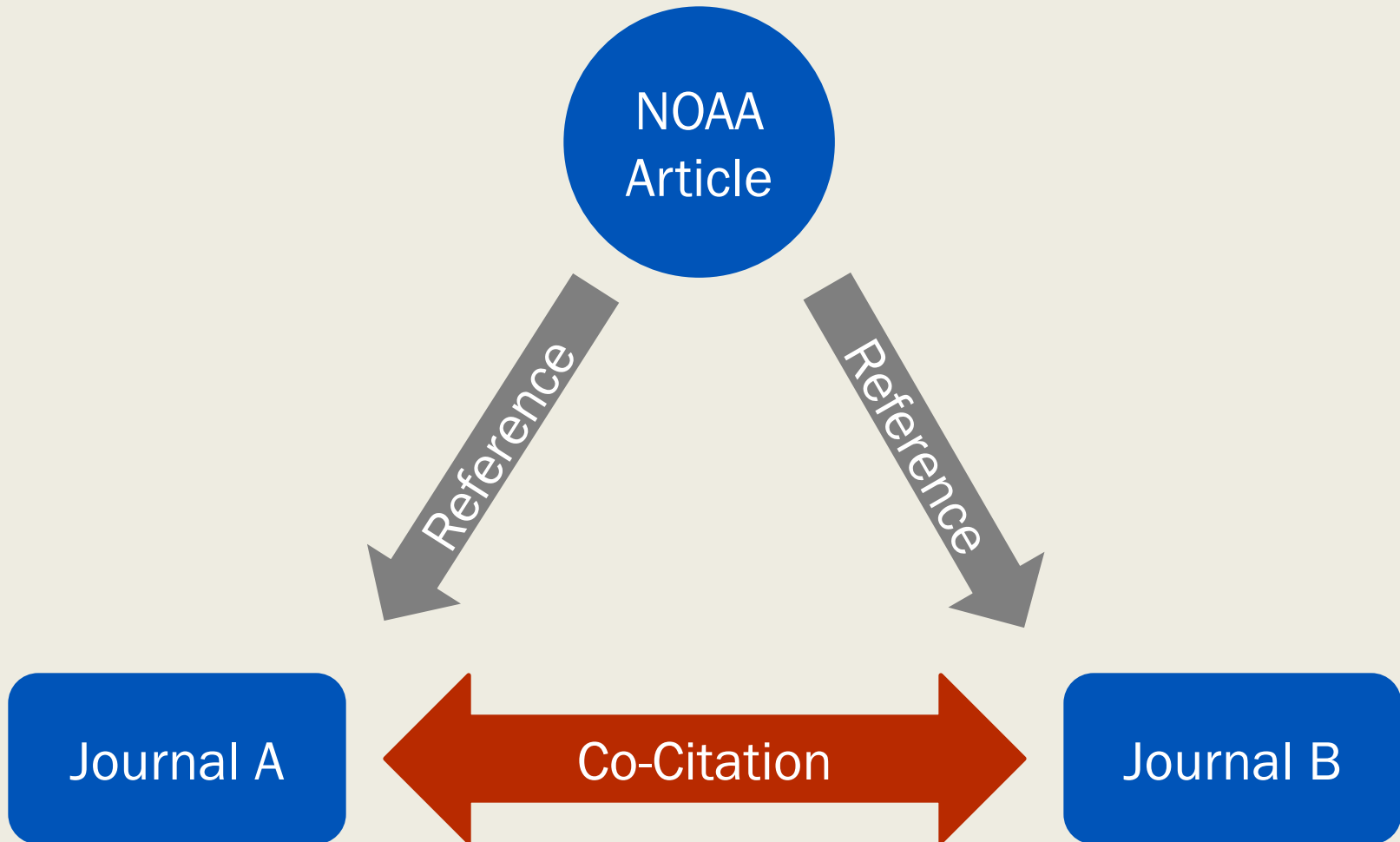
Journal Referencing Trends



Journal Referencing Trends



Journal Co-Citation



Conclusions

- NOAA authors referenced over 90,000 publications in 2013 alone
- NOAA authors referenced both new and older works
- The majority of the references by NOAA authors were to a small and relatively stable set of core journals
- The actual journals in this core are different for different NOAA authors

Questions?

Christopher W Belter

Email: Christopher.Belter@nih.gov

Phone: 301-451-5861