Maintaining the Argo bibliographies

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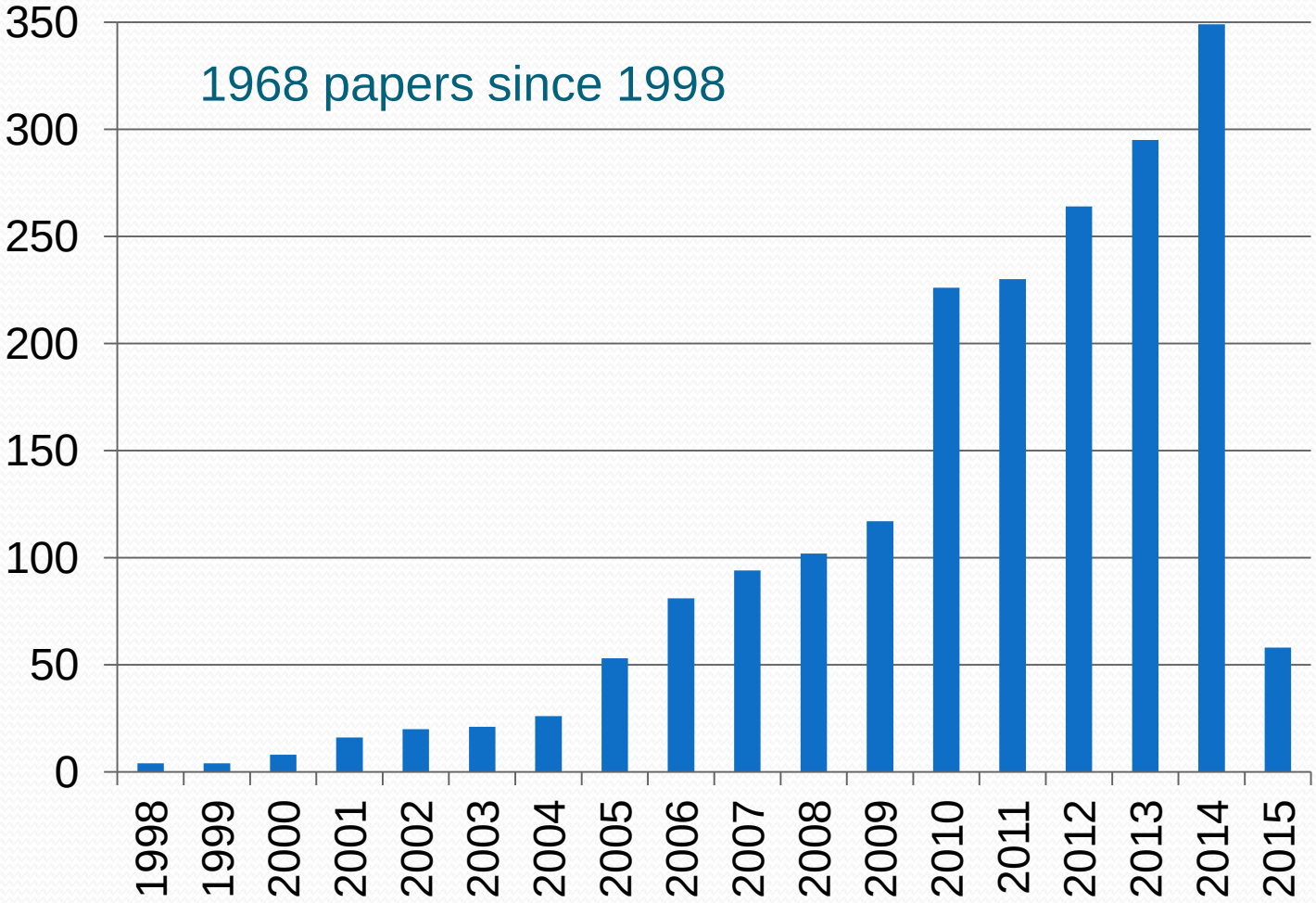
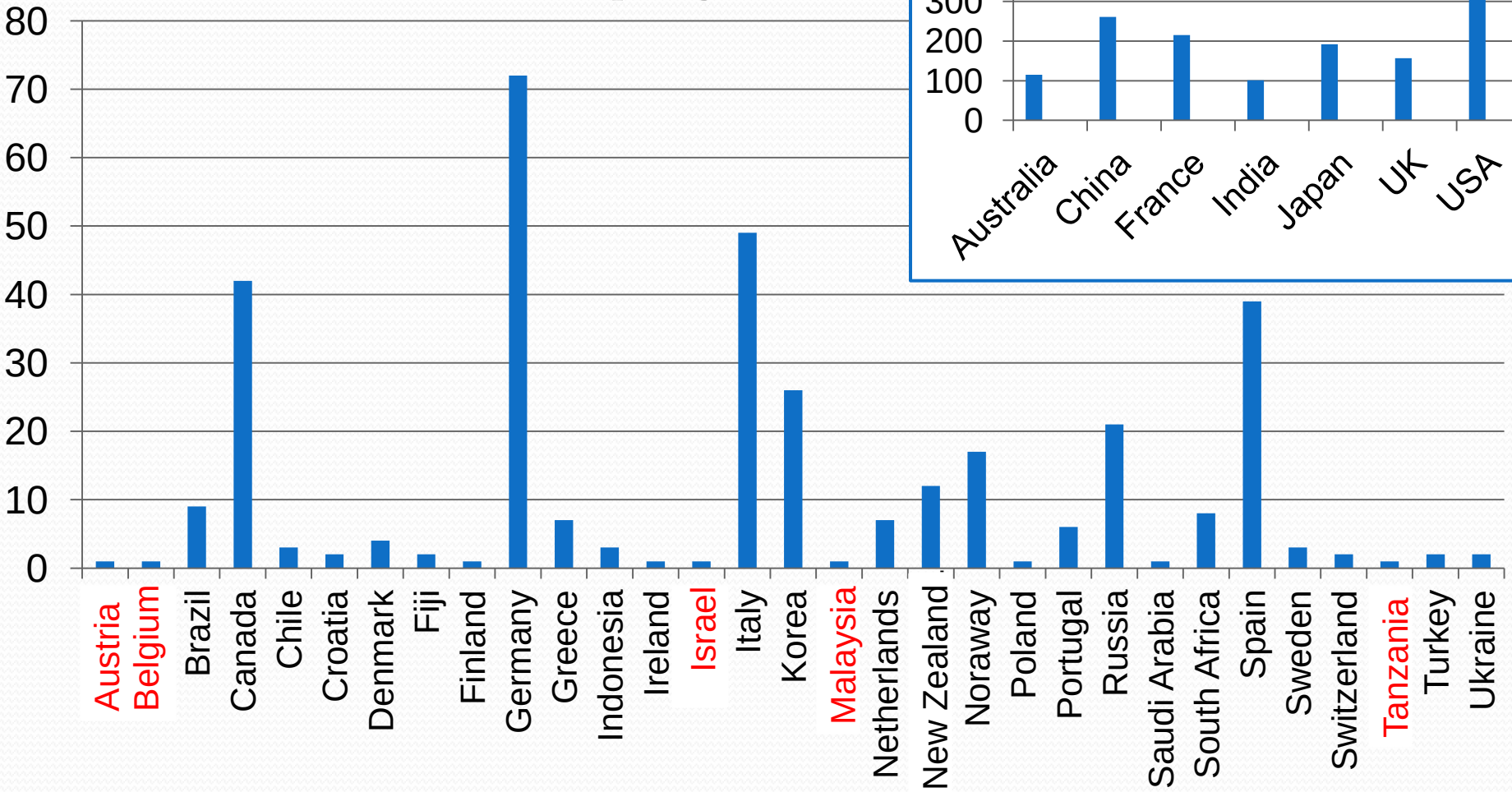
Current status of Argo bibliography

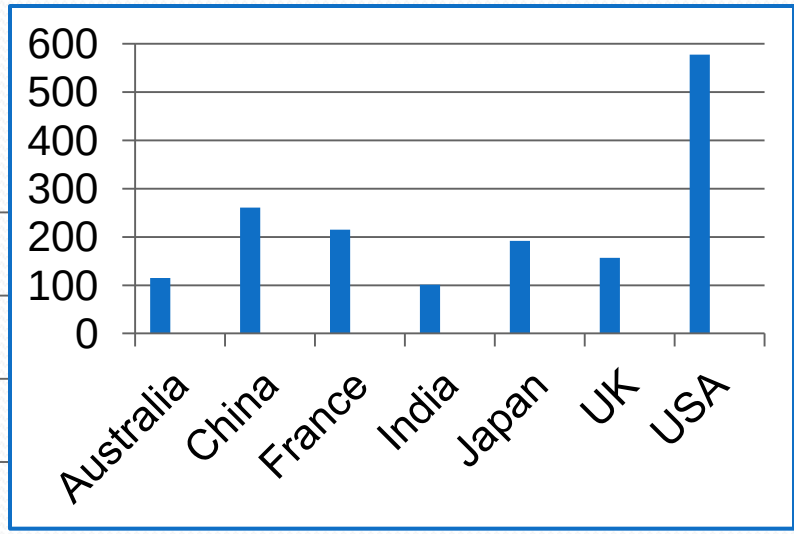
Includes peer-reviewed articles & books that include Argo and Argo equivalent float data along with a few articles on floats that were precursors to Argo floats



What countries have published Argo papers?

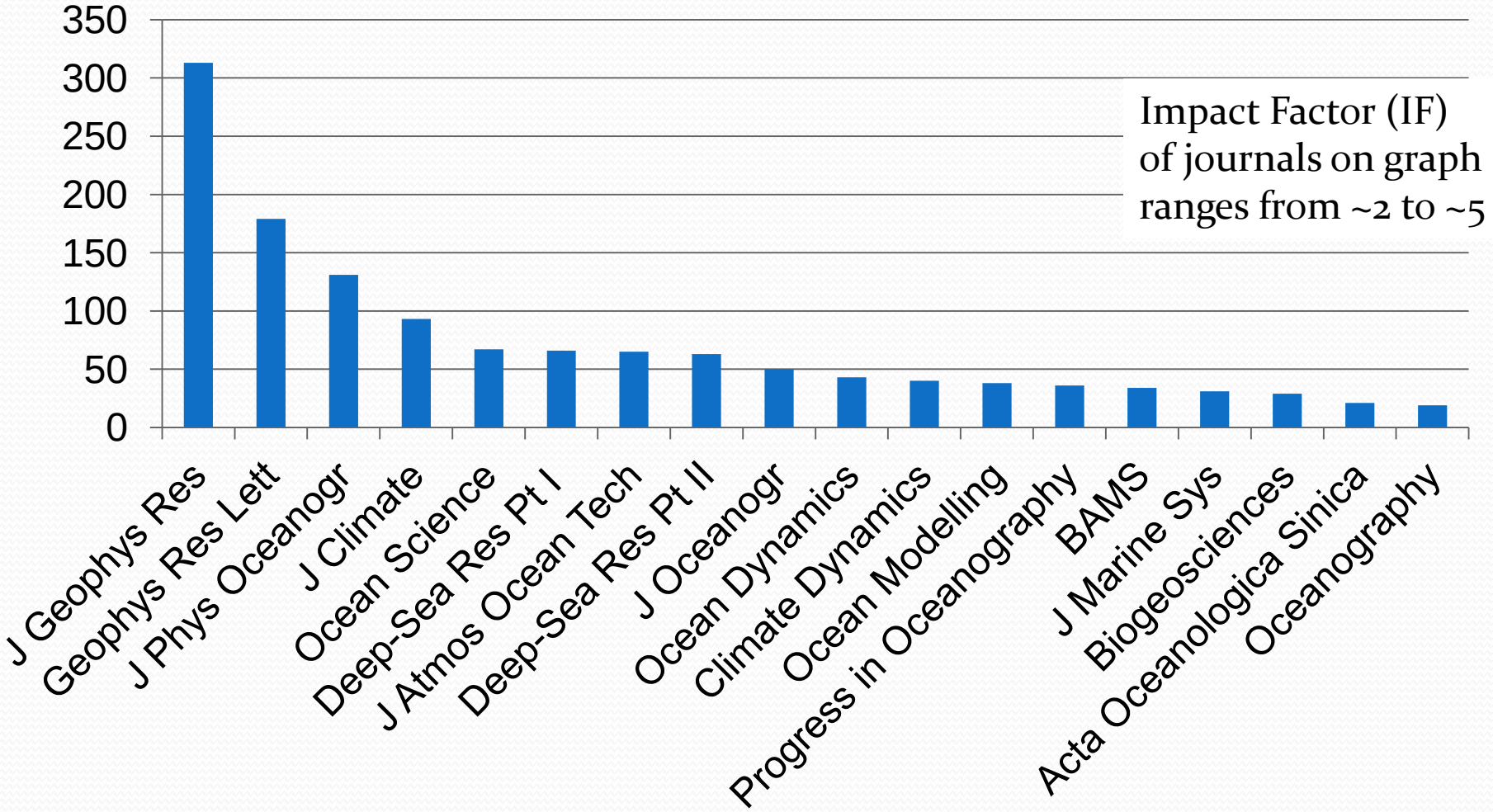
- Over 30 countries, including ones not directly supporting Argo
- Extracted top 7 countries with over 100 papers each
- Countries in red are new in past year





What journals do Argo papers occur in?

- 11 articles in Nature (IF = 42)
- 11 in Nature Geoscience (IF = 12)
- ~45 in bio-related journals
- 11 articles in Science (IF = 31)
- 8 in Nature Climate Change (IF = 12)



Update for the past year

- **349** papers published in 2014!!
- At least 30 more papers each year since 2011
- Will reach 2000 papers this year
- Many recent papers related to satellite salinity
  - Aquarius mentioned in ~50 papers, 35 in 2014
  - SMOS in ~60 papers, 22 in 2014
- Many recent papers on typhoons, cyclones & hurricanes: ~100, 25 in 2014
- Gridded data used frequently:
  - CARS climatology (2002) cited 204 times
  - Roemmich & Gilson (2009) cited 115 times

Acknowledgment of Argo in papers

- Acknowledgements page on AST website asks for authors to:
  1. Use a DOI to cite Argo data use & points to ADMT webpage explaining different DOIs available
  2. If using a DOI is not possible, include statement:

     " ***These data were collected and made freely available by the International Argo Program and the national programs that contribute to it. (http://www.argo.ucsd.edu, http://argo.jcommops.org). The Argo Program is part of the Global Ocean Observing System.***"
- Even so, Argo is often not included in Acknowledgements
- If included & Argo profile or trajectory data was used :
  - Sometimes cite requested statement (see above)
  - Sometimes cite US or Coriolis GDAC
  - Rarely cite US NODC/Global Argo Repository
- Add link to Acknowledgements page from GDACs (ftp, http, data browser pages, etc)

What about the Argo DOIs?

- Argo is generating DOIs based on monthly snapshots of data at the GDACs
  - Started routinely doing this in January 2014
- DOI for Argo float data and metadata from Global Data Assembly Centre
  - Working with IFREMER to track these citations
- Is word is getting out about the DOIs?
  - Acknowledgment page updated with DOI information about a year ago
  - Work with J. Buck to be able to search for papers citing Argo data DOIs
  - Continue to monitor & feedback to AST and ADMT

How well do my searches work?

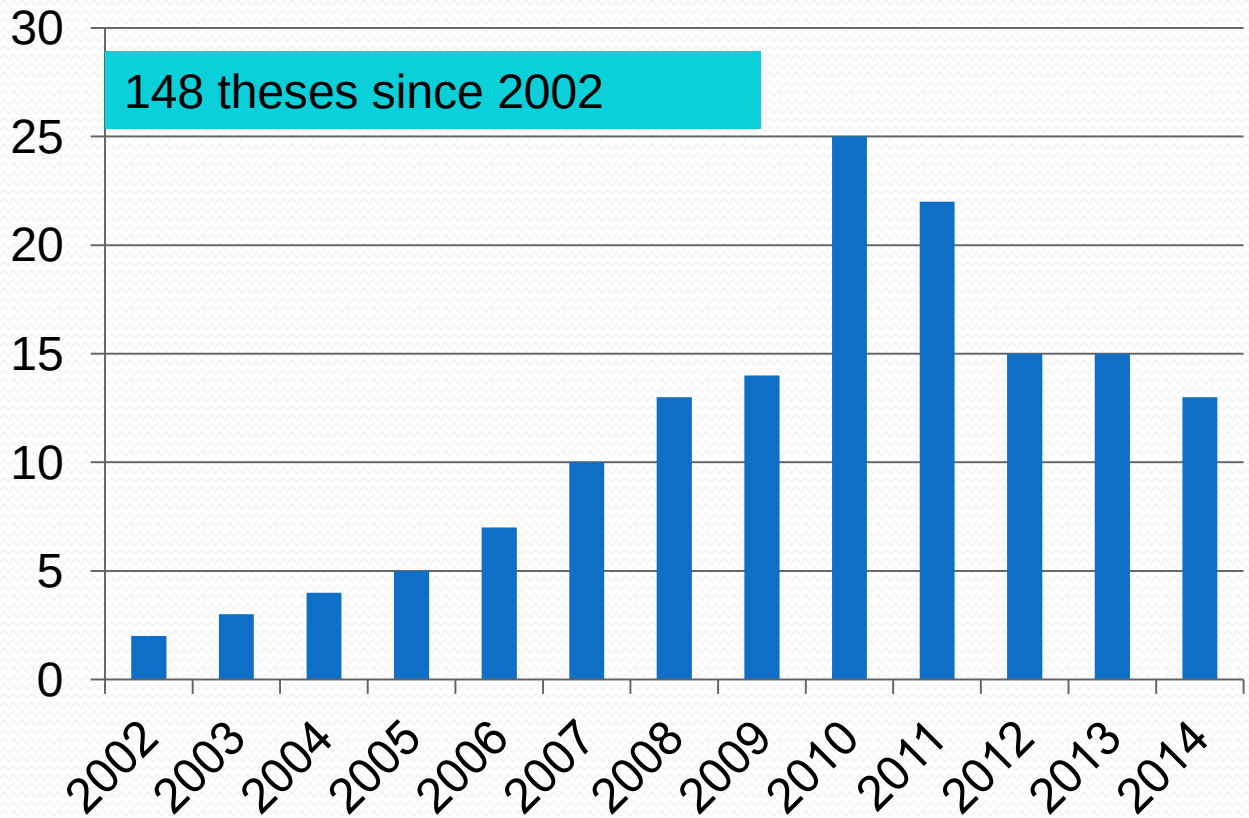
- Based on feedback from National Reports from China, Germany, India, Italy, Japan, and South Africa
- Total of 73 citations
- Missing ones in English fell into two categories
  - Did not mention Argo (MLD including Argo)
  - Was in a bio-related journal

Conclusions

- Method to search for peer reviewed papers in journals is working well
- Still reliant on authors/AST reps to send citations of papers where Argo is used, but not directly mentioned in paper
- Talk to BGC group to get journal names to search

Current status of thesis citation list

- Contains over 148 doctorate theses using Argo data
- 28 theses added since last AST meeting
- Based on my searches and feedback from AST members
- Will include only theses with ***verified Argo data*** usage – either via access to document or by someone else familiar with thesis



Methods used to create thesis citation list

- ProQuest database for USA and Canada
  - Can only see abstract for many, so cannot check context of Argo
  - Only includes US and Canadian theses from institutions that require students to publish on ProQuest (UC system, WHOI, UW, plus)
- OATD – Open Access Theses & Dissertations
- MIT Library directly – Proquest does not grant access to MIT/WHOI theses, but MIT site does
- DART database for Europe
  - Includes full pdfs
  - Gives results in many languages - harder to check context of Argo
- Ethos for UK
- TROVE database for Australia provides list of theses, but links to pdfs only for recent dissertations

Request submissions through AST members, email for national reports, and webpage itself

Thoughts on thesis citation list

- Probably missing quite a few dissertations
  - Often hard to search dissertation text to confirm use of Argo data
  - Databases only cover some countries & institutions
- Need feedback from AST members to make list more complete
  - Thanks to Germany and Japan for list in National Report
  - France created online submission form for dissertations using Argo data
- Can take time for dissertations to reach databases and text made available (often a one year hold placed)
- List is growing in size and getting more submissions through National Reports, email, etc.