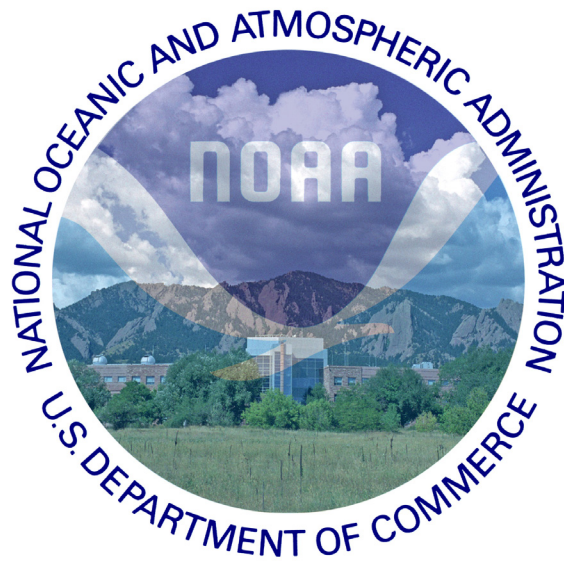


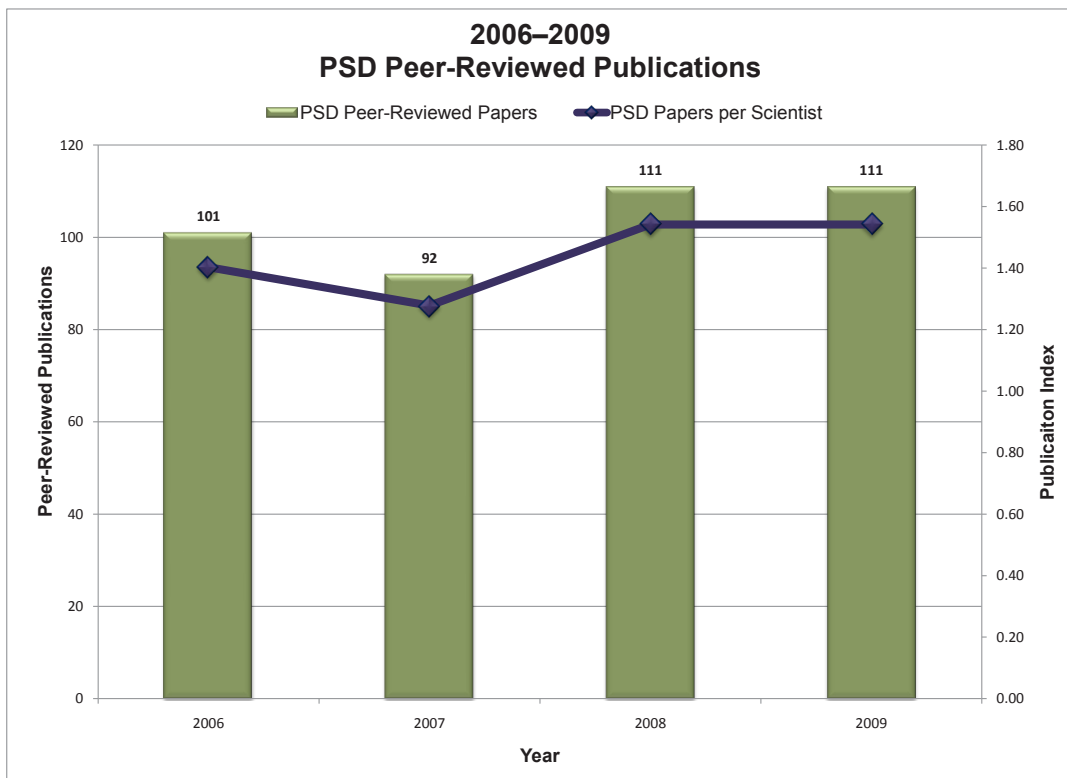
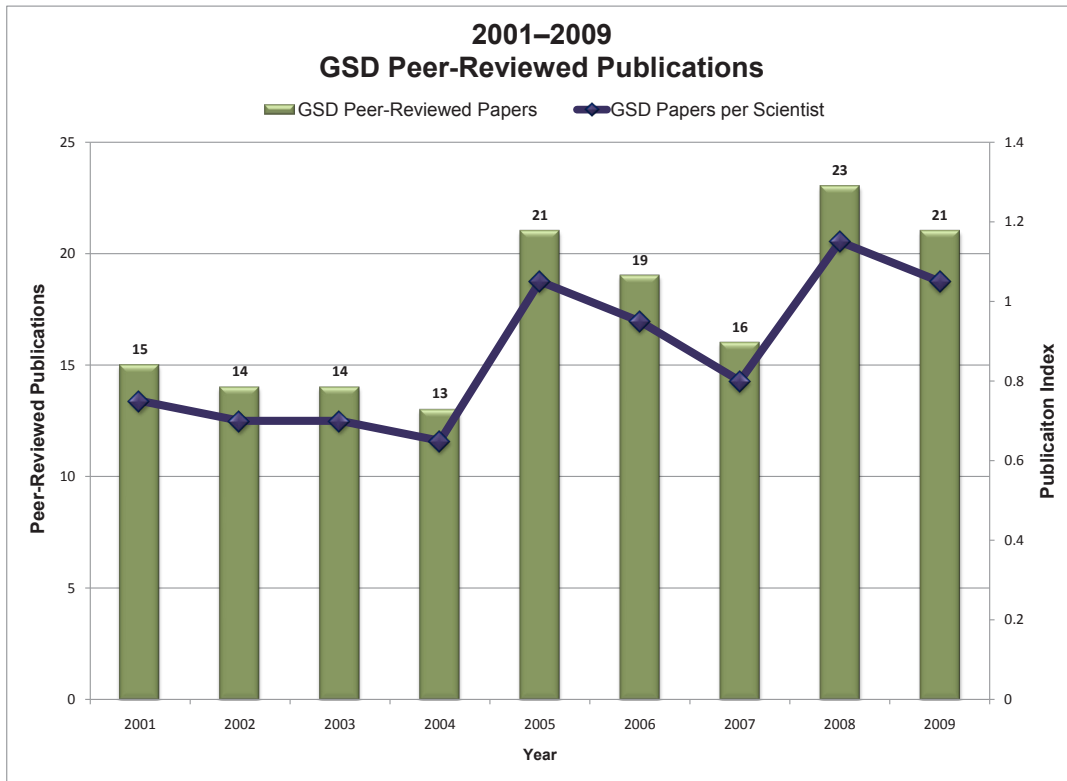
A. Publications



ESRL Physical Sciences Laboratory Review

David Skaggs Research Center
Boulder, Colorado
March 9-12, 2010

Refereed Publications



We define the **Publication Index** that appears on the right hand side of the plots as the total number of peer-reviewed publications normalized by the total number of publishing scientists. We determined the number of publishing scientists by examining the distribution of Hirsch-indices¹ among published staff and identifying a Hirsch-index threshold equal to or above which associated staff were expected to produce peer-reviewed publications as one of their primary work outputs. GSD proposed fitting an exponential to the ordered (highest to lowest) distribution of Hirsch indices, and defining the threshold as the e^{-1} level of that distribution. This process produced a GSD Hirsch-index threshold of 7. PSD adopted this approach for consistency. This process yielded approximately 20 publishing scientists for GSD and 72 for PSD. We feel that this approach approximates the number of core publishing scientists in each division. Web of Science[®] was used to estimate individual Hirsch-indices.

*The **Hirsch index**¹ is a combined measure of a scientist's productivity and impact. A Hirsch index of 7 indicates that a given scientist has at least 7 publications that have been cited 7 or more times.

¹Hirsch, J. E., 2005: An index to quantify an individual's scientific research output. *Proceedings of the National Academy of Sciences*, **102** (46), 16 569–16 572, doi:10.1073/pnas.0507655102.

Individual publications for PSD can be found at: <http://www.esrl.noaa.gov/psd/pubs/>

Individual publications for GSD can be found at: <http://www.esrl.noaa.gov/search/publications/gsd/>