



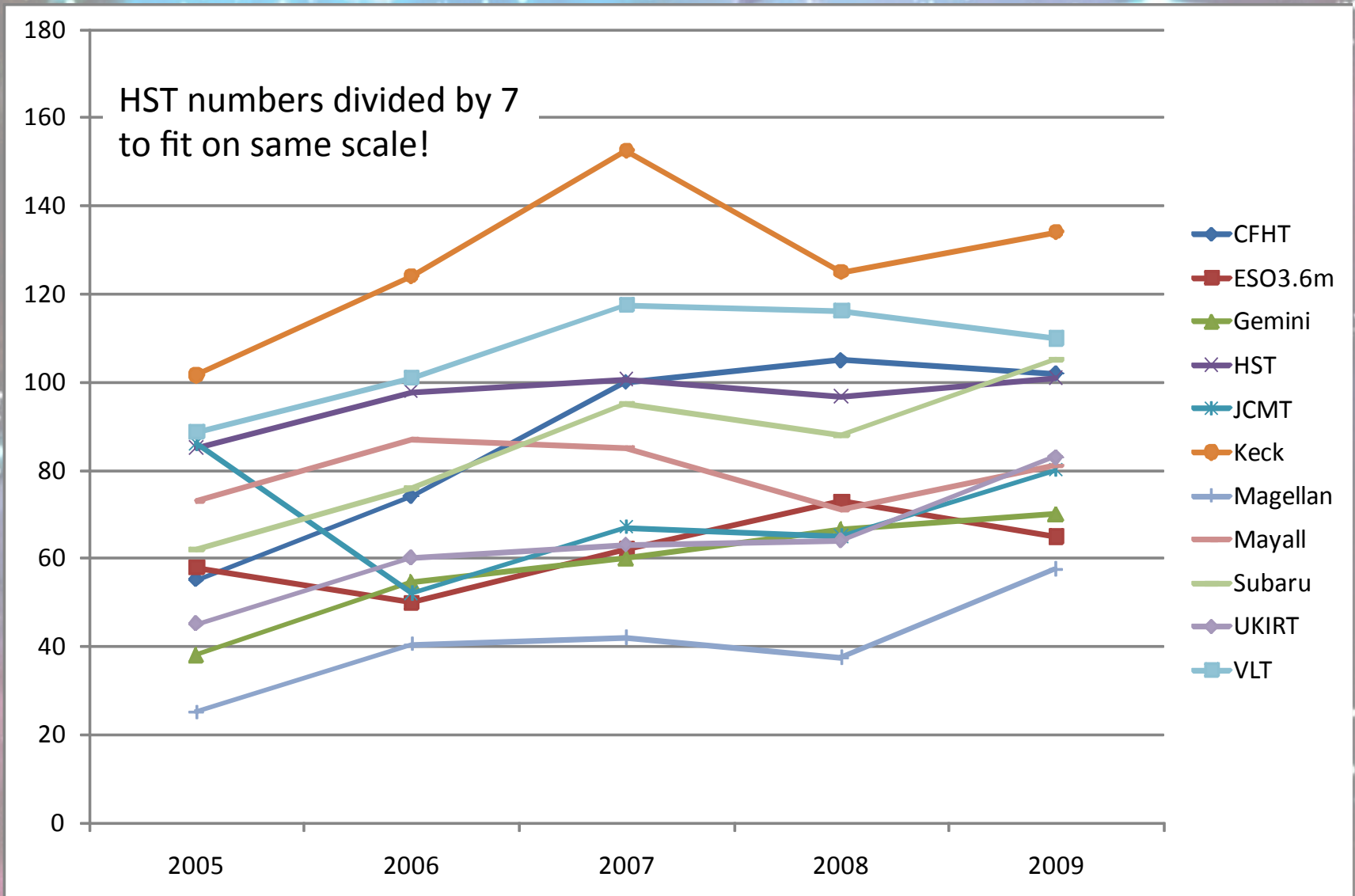
# Observatory Update – Dec. 2010

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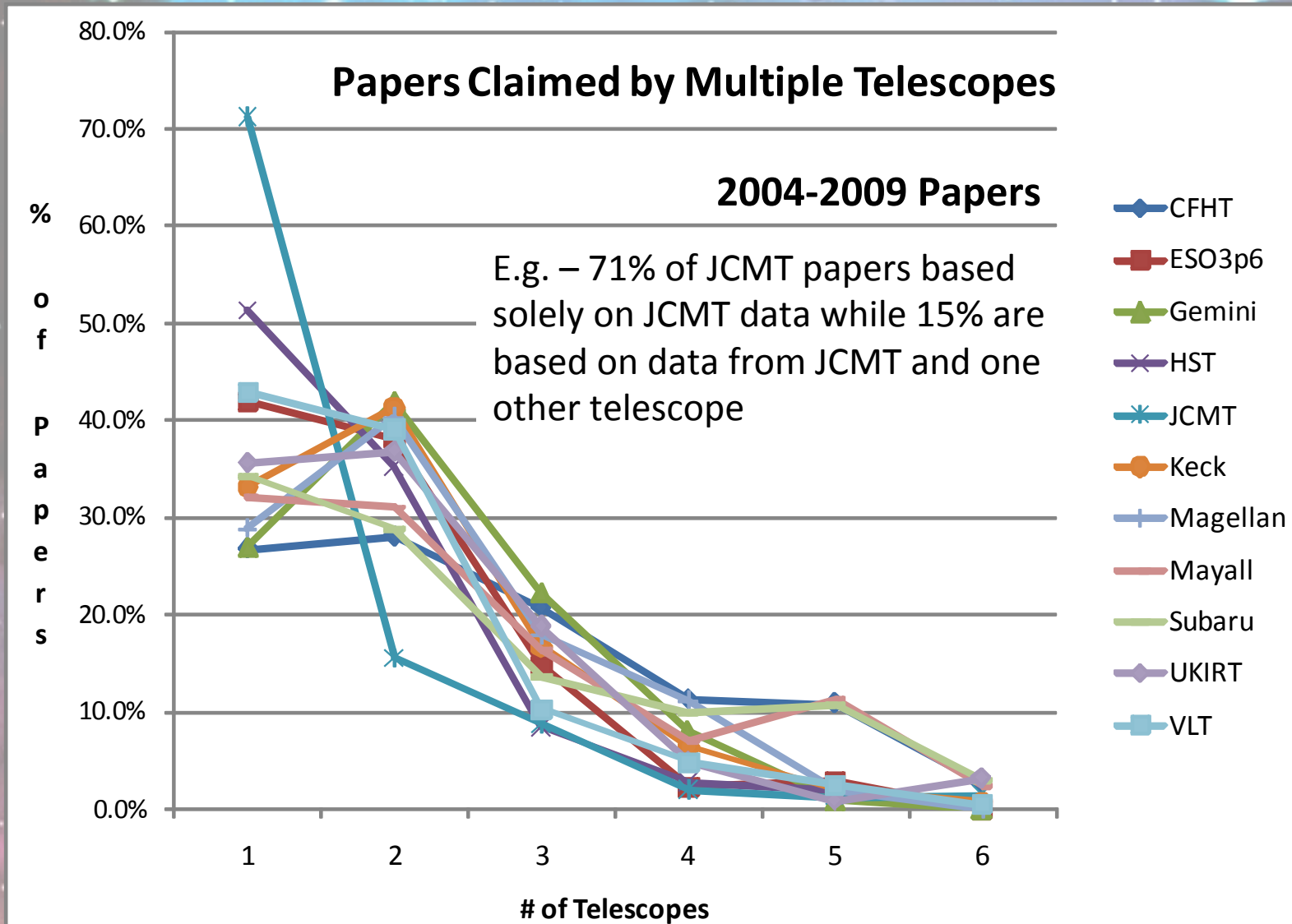
# Data Sources

- List of papers retrieved from observatory websites or obtained from observatory librarians (Thanks!)
- No checking of these lists – trust observatory judgment on what constitutes an observatory paper
  - “A paper based on data acquired at the observatory”
- Many papers based on data obtained from more than one observatory
  - Give each observatory full credit for these papers
- Citations for each paper retrieved from ADS
  - Need to wait at least a year since publication of paper before citation count is meaningful
  - Raw citation counts need to be adjusted if comparing papers of different ages
- Study includes: CFHT, ESO 3.6, Gemini, HST, JCMT, Keck, Magellan, Mayall, Subaru, UKIRT, VLT

# # of Papers per Telescope



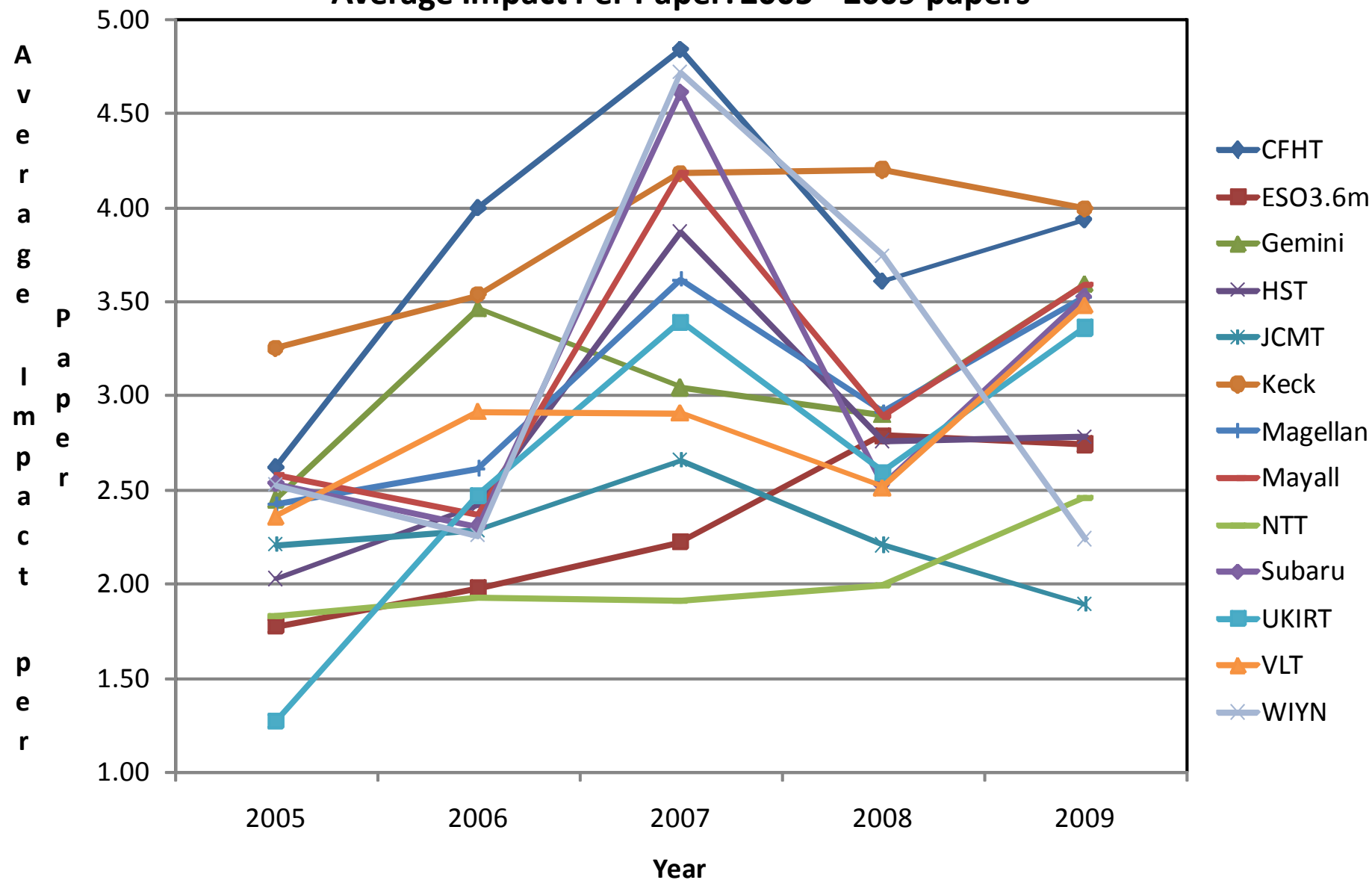
# Papers' use of telescope data



# Impact Metric

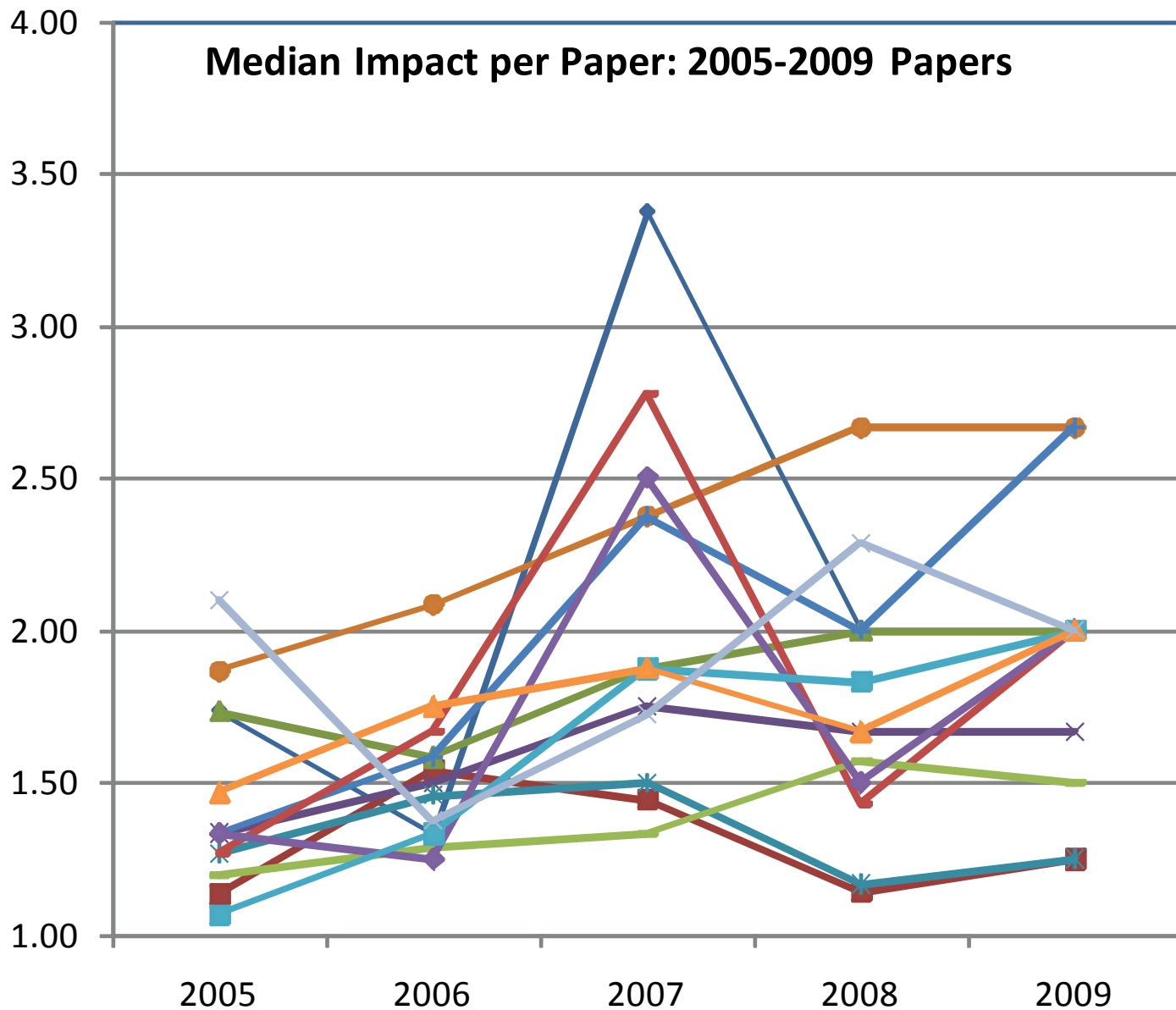
- Citations counts grow as a paper ages
  - Peak citation/count/year occurs  $\sim$  2-3 years after publication
- Need a standard citation (impact) metric
  - Allows comparison of papers of different ages
  - Common treatment of impact for the complete sample
- Use the *median citation count* for AJ papers of a given year as a standard measure
- Impact is defined as the ratio of the citations of a paper to the median # of citations for AJ papers of the same year
- Using ApJ rather AJ would simply change the length of our standard measuring stick (meter – yard)

Average Impact Per Paper: 2005 - 2009 papers



Median Impact per Paper: 2005-2009 Papers

Median  
Impact  
per  
Paper



- CFHT
- ESO3p6
- Gemini
- HST
- JCMT
- Keck
- Magellan
- Mayall
- NTT
- Subaru
- UKIRT
- VLT
- WIYN

Impact Distribution Function (2005 - 2009 Papers)

