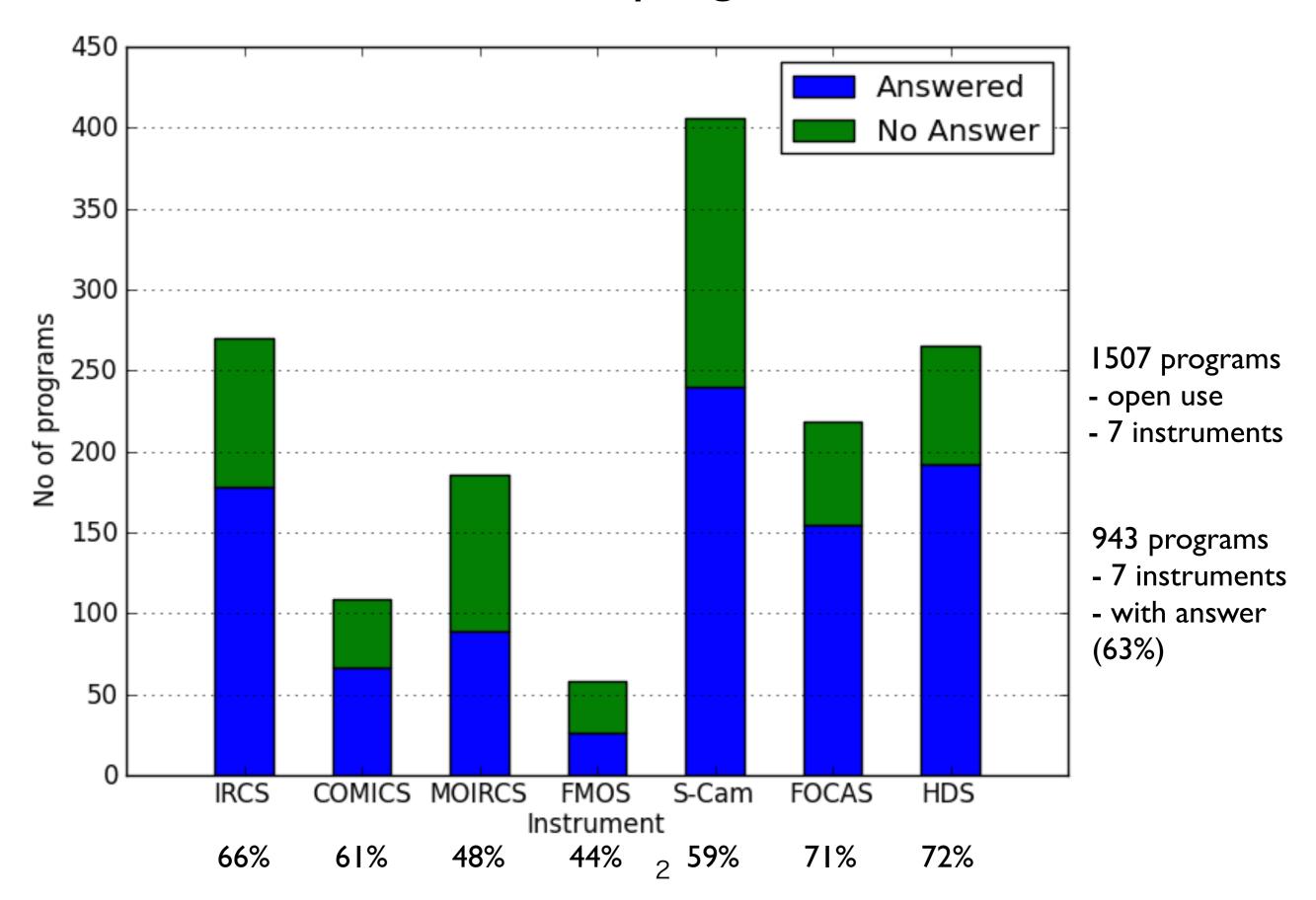
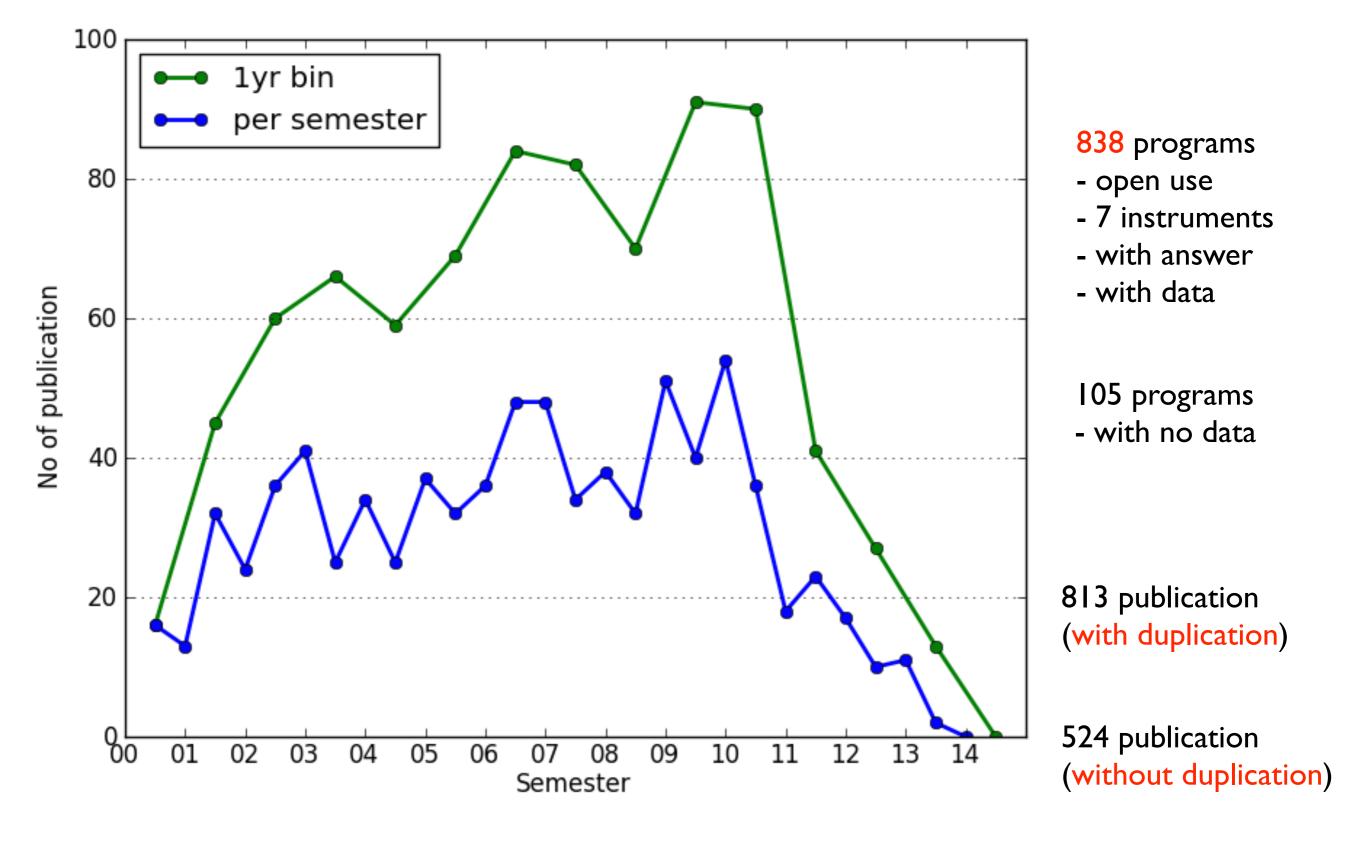
Output from each Subaru instrument - Analysis of Subaru publication survey -

Masaomi Tanaka 2014/11/26

No of programs

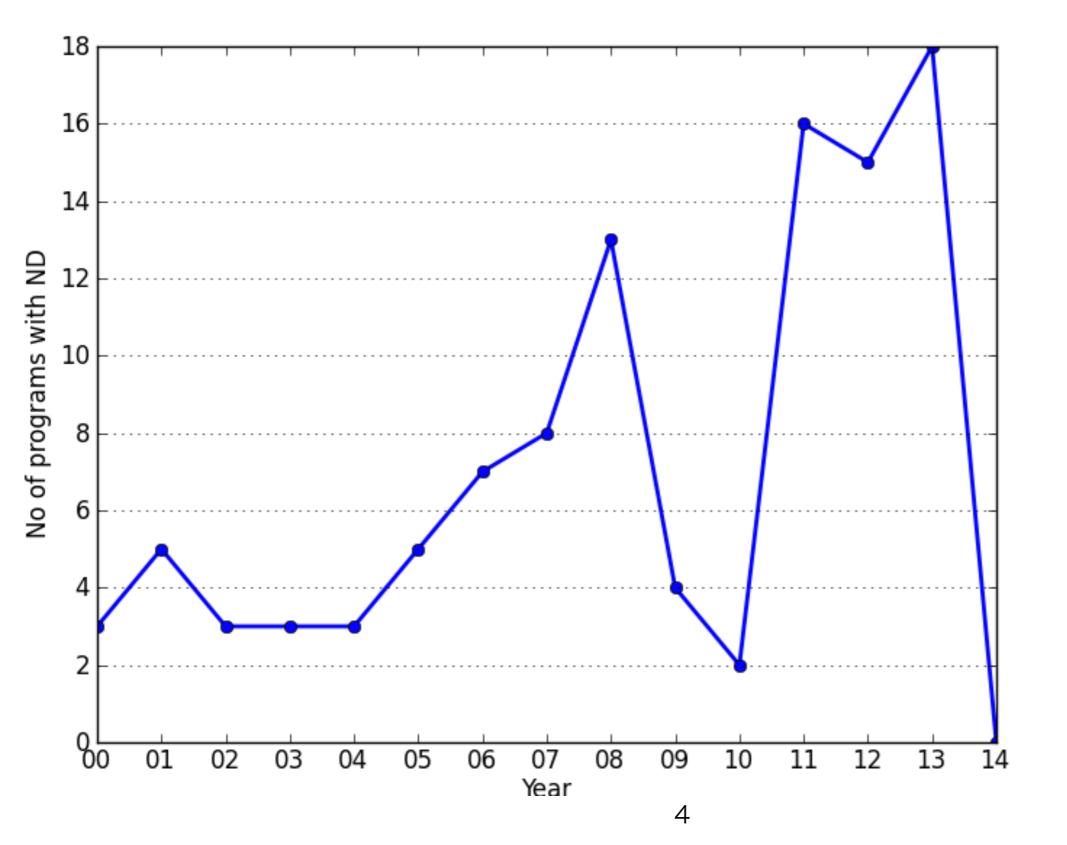


No of publication





No of programs with "No Data"



838 programs

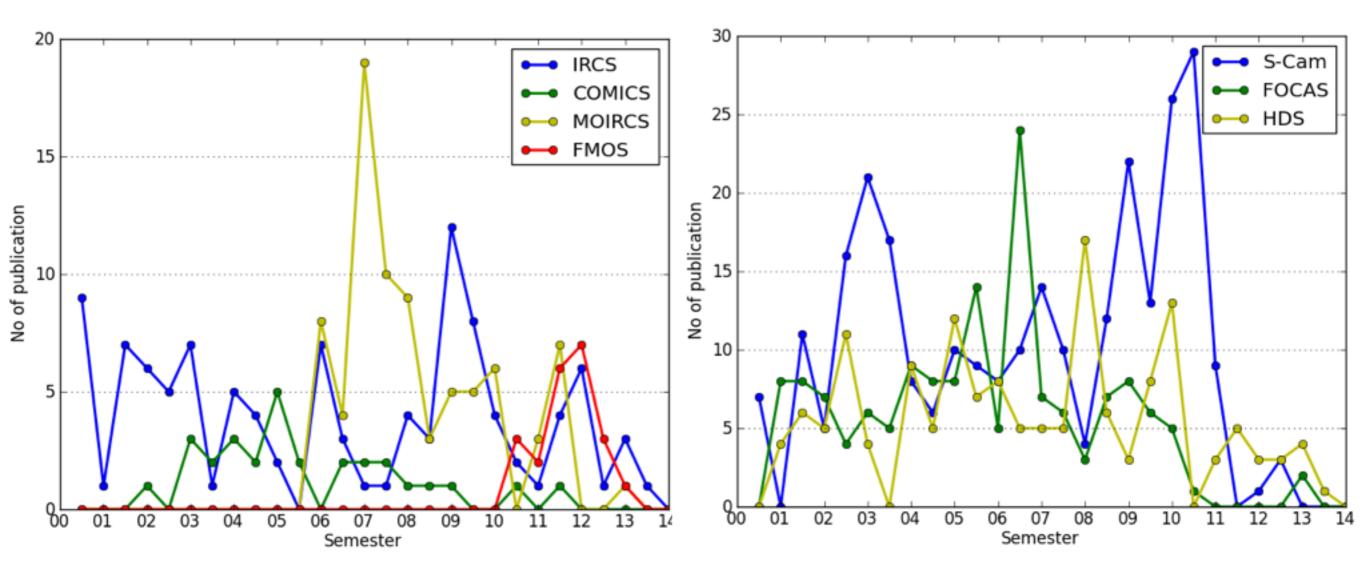
- open use
- 7 instruments
- with answer
- with data

105 programs

- with no data

No of publication for each instrument (semester)

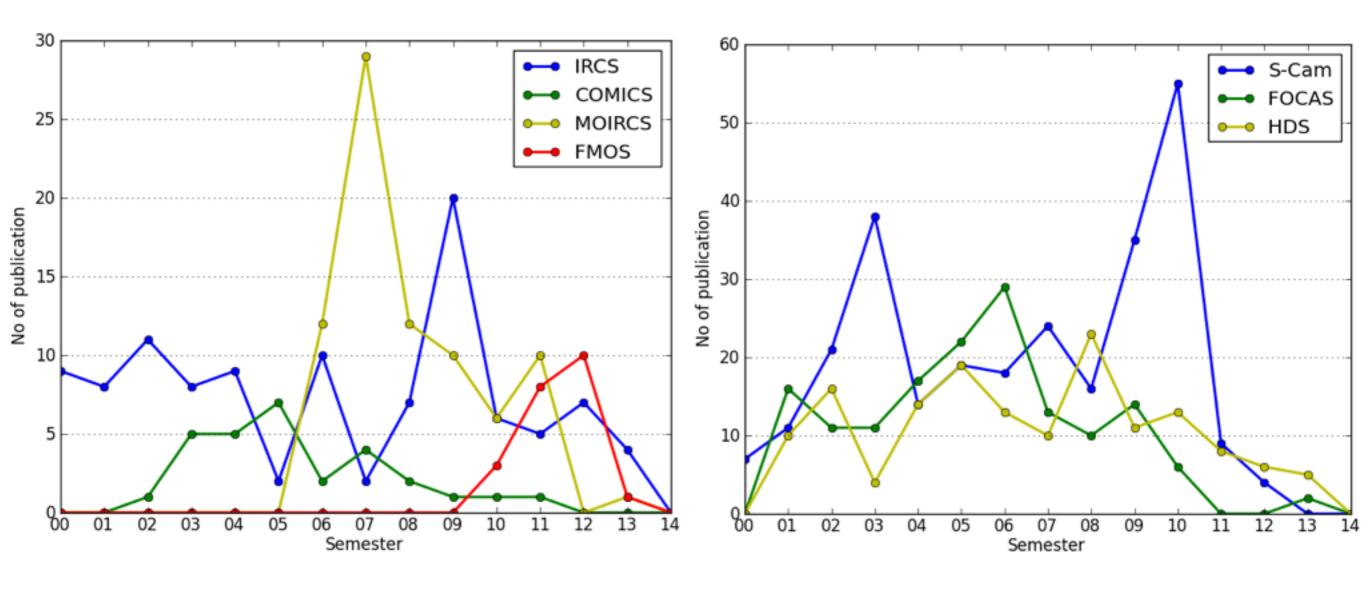
IR Opt





No of publication for each instrument (I yr bin)

IR Opt



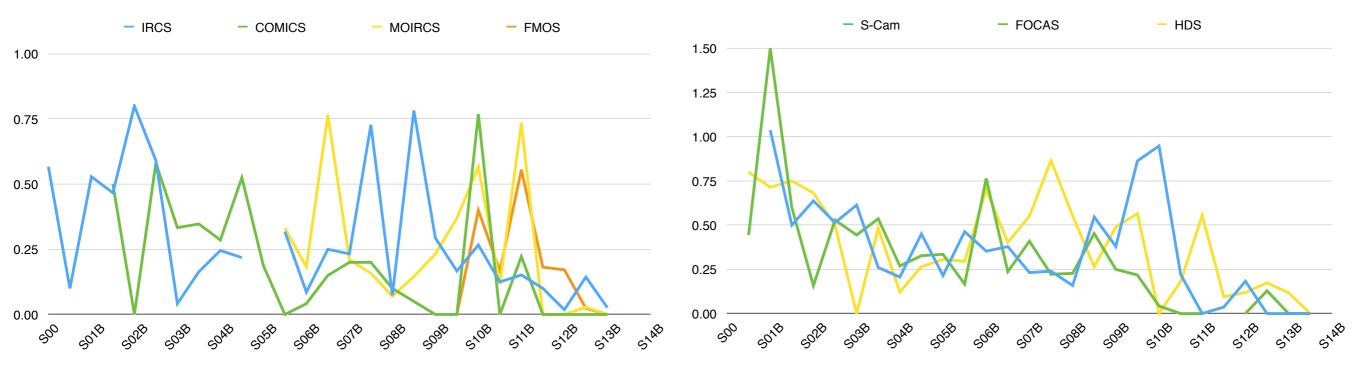
Removing duplication (same publication by different programs)

Weight

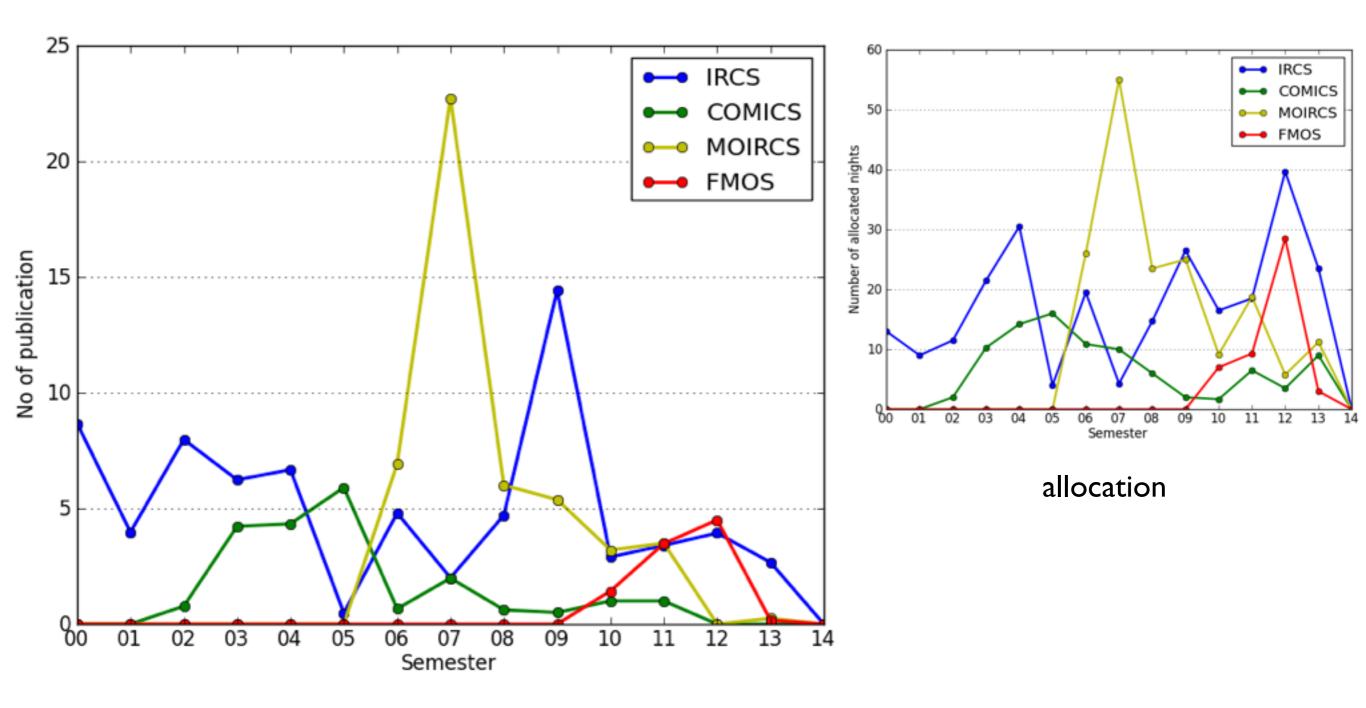
- Number of publications divided by number of programs used for the publication
 - e.g., if four programs were spent to produce a paper, the weight of the paper is 0.25
 - e.g., a program has produced two papers. One paper is based on two programs and another is based on three programs. Number of publications for the program is 0.5 + 0.33 = 0.83.

(+weighted by allocated nights)

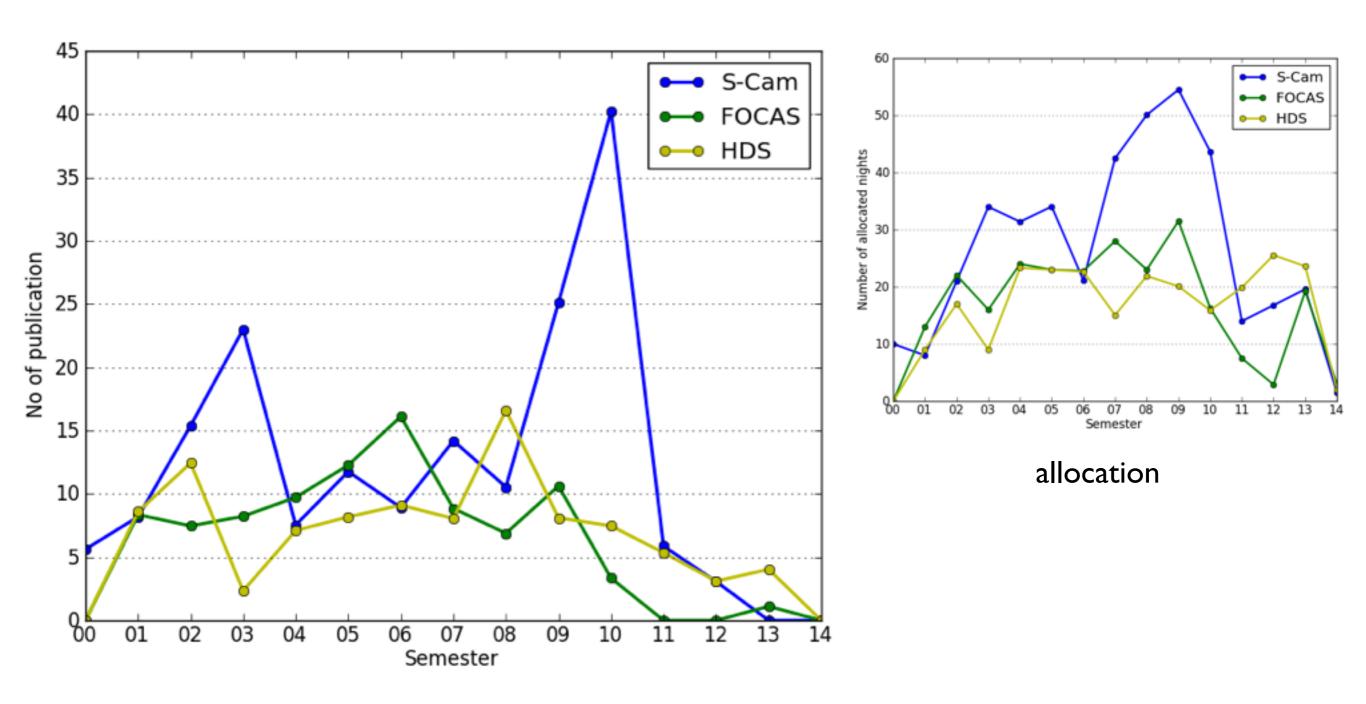
+ then divided by the number of total allocated nights



No of publication: IR instruments (w/o duplication)

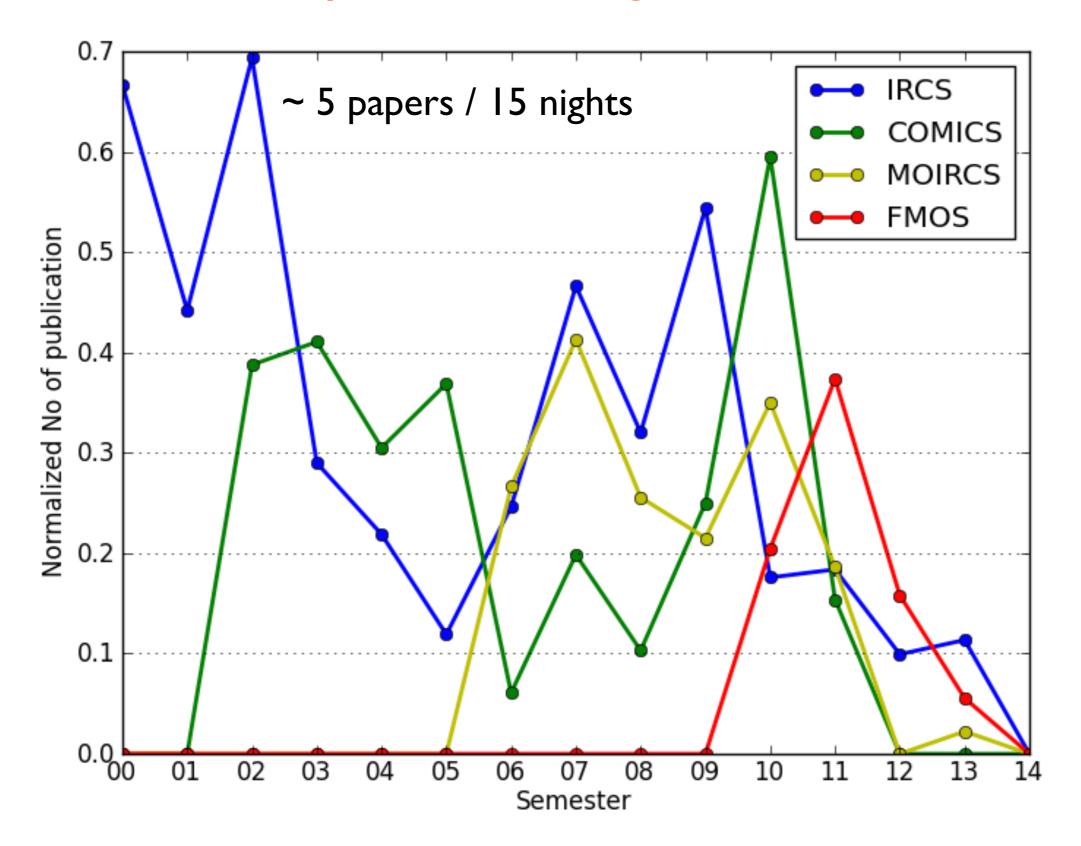


No of publication: Opt instruments (w/o duplication)



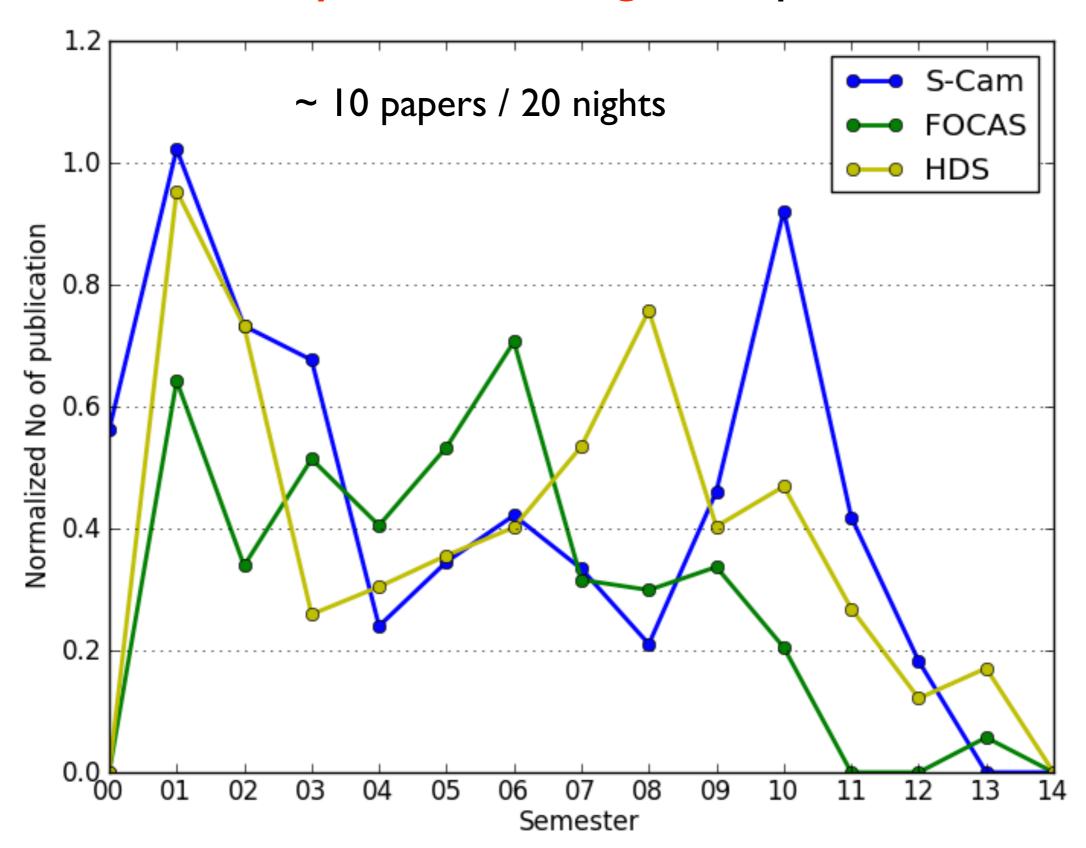


Normalized by allocated nights: IR instruments



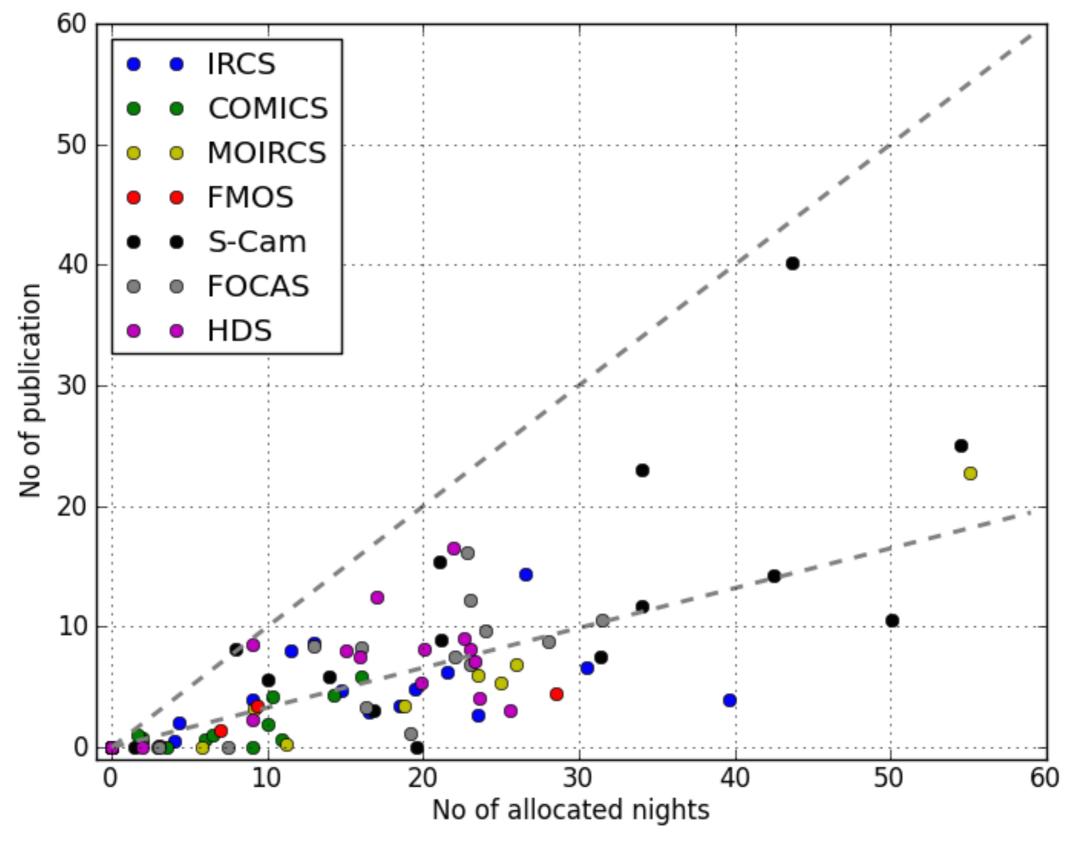


Normalized by allocated nights: Opt instruments



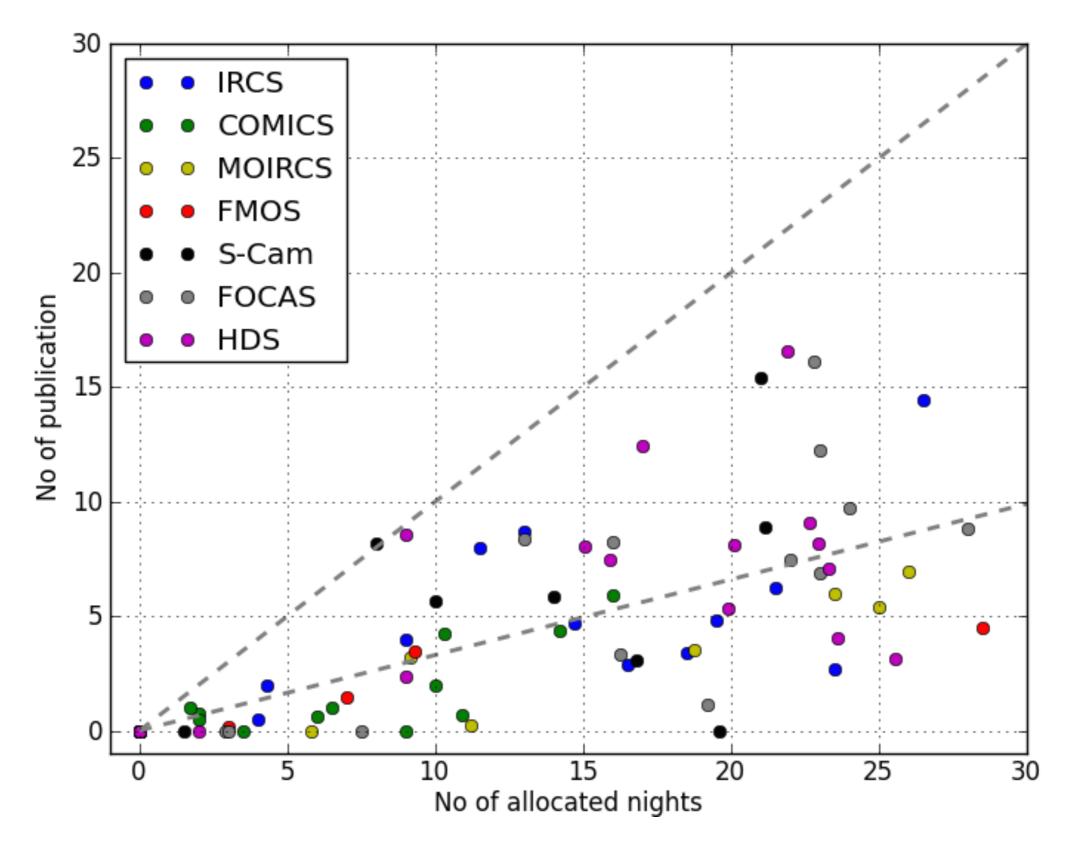


No of publication vs. allocated nights



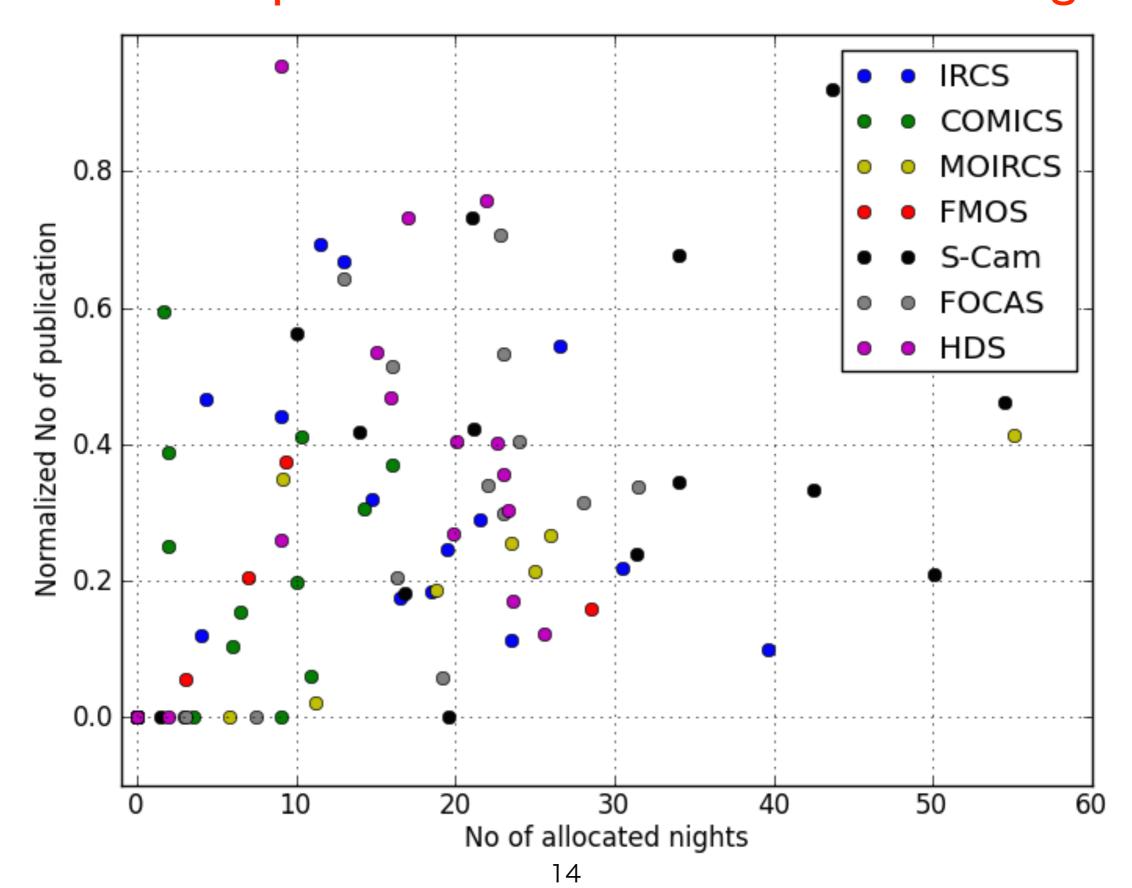


Publication number vs. allocated nights (zoom)



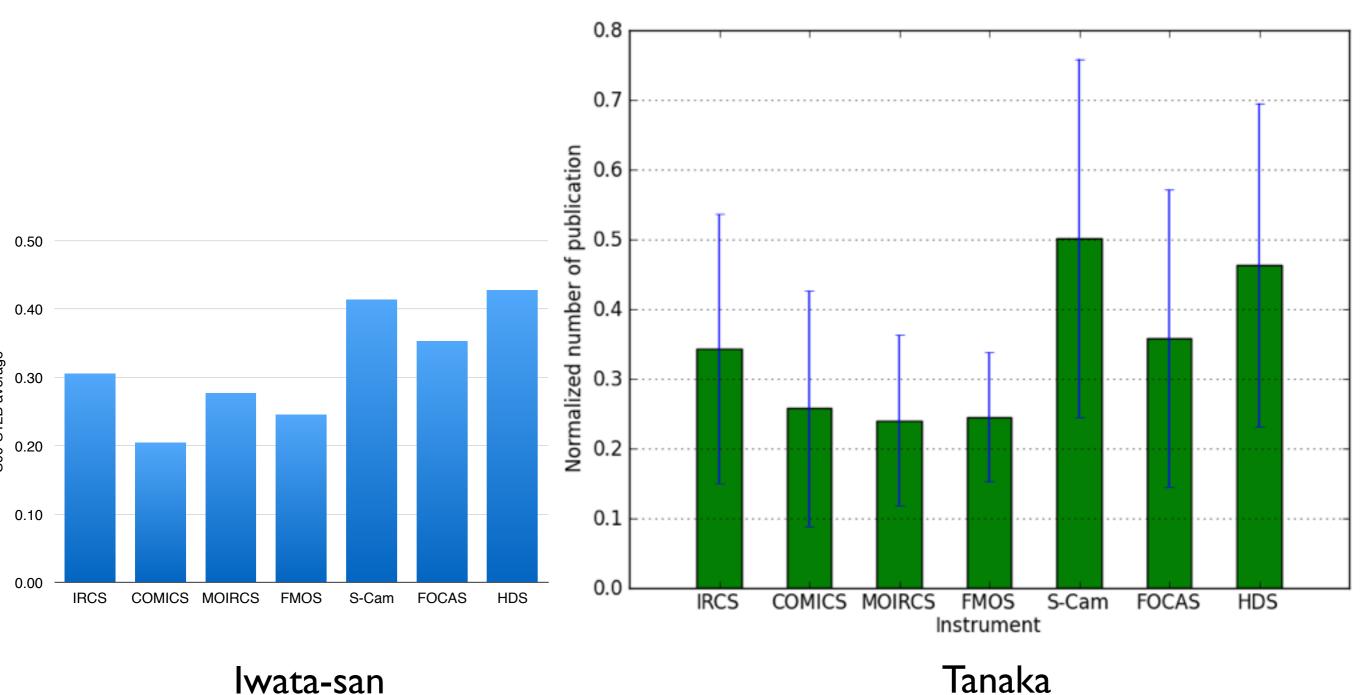


Normalized publication number vs. allocated nights





Normalized publication number (S00-S12)



IR: ~ 5 papers / 15 nights

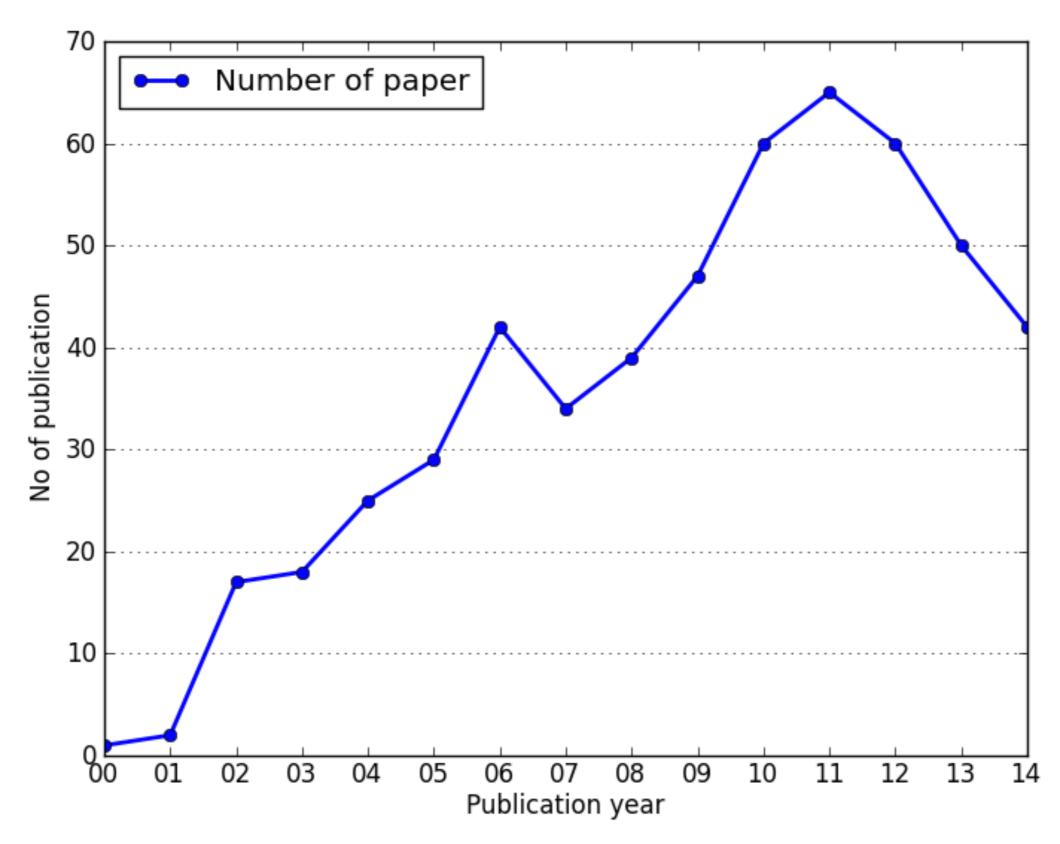
Opt: ~ 10 papers/ 20 nights

Analysis for each "paper"

```
* Assignment to each instrument
(Case A): if a paper is written with 3 FOCAS nights,
          ==> | FOCAS paper
(Case B): if a paper is written with I FOCAS nights
         and 2 S-Cam nights,
         ==>
         1/3 = 0.33 FOCAS paper and 2/3 = 0.67 S-Cam paper
(Case C): if a paper is written with 2 FOCAS nights
          and 4 S-Cam nights,
          ==>
         2/6 = 0.33 FOCAS paper and 4/6 = 0.67 S-Cam paper
```

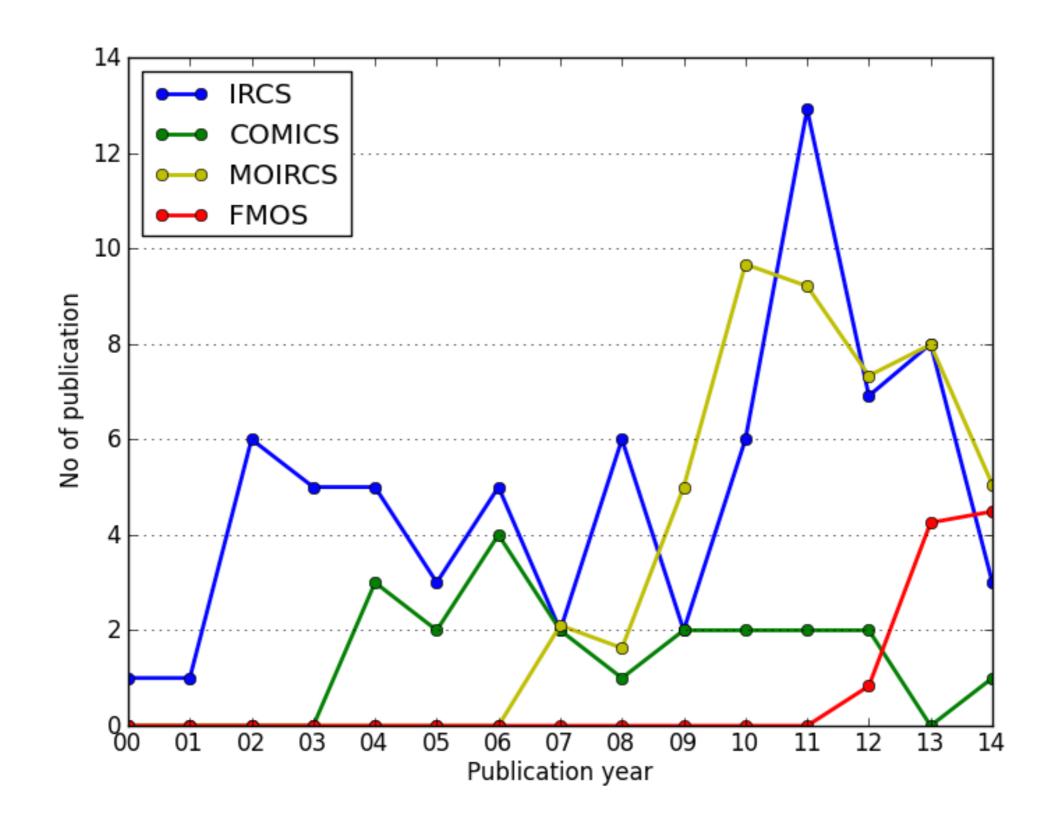


No of publication (pub. year)



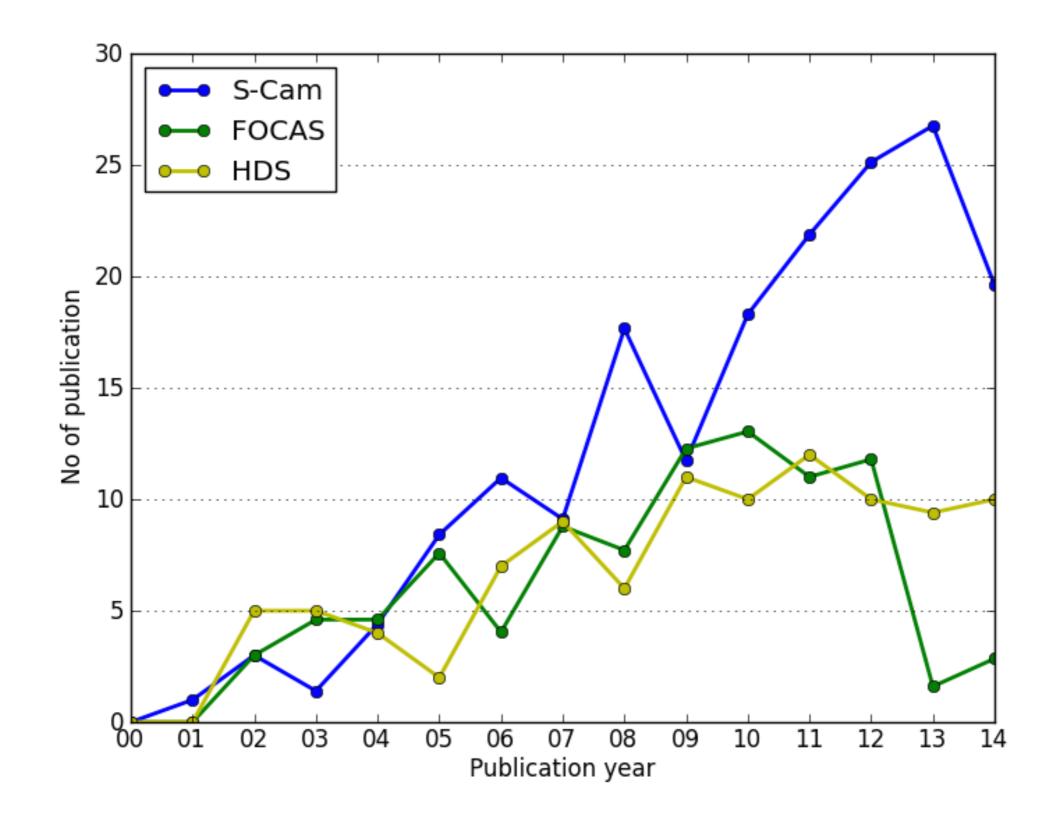


No of publication: IR instrument (pub. year)





No of publication: Opt instrument (pub. year)



Summary

- Analysis for each year (instead of semester)
- No of publication roughly follows the number of allocated nights
- The difference for each instrument is not significant

- Analysis for each publication
 - difficult to separate from "demand"

• Citation survey?? (depends on community size...)