TAC report

1. allocation statistics
2. overview of the allocation process

Masayuki Akiyama
(Tohoku University)

Members of the TAC

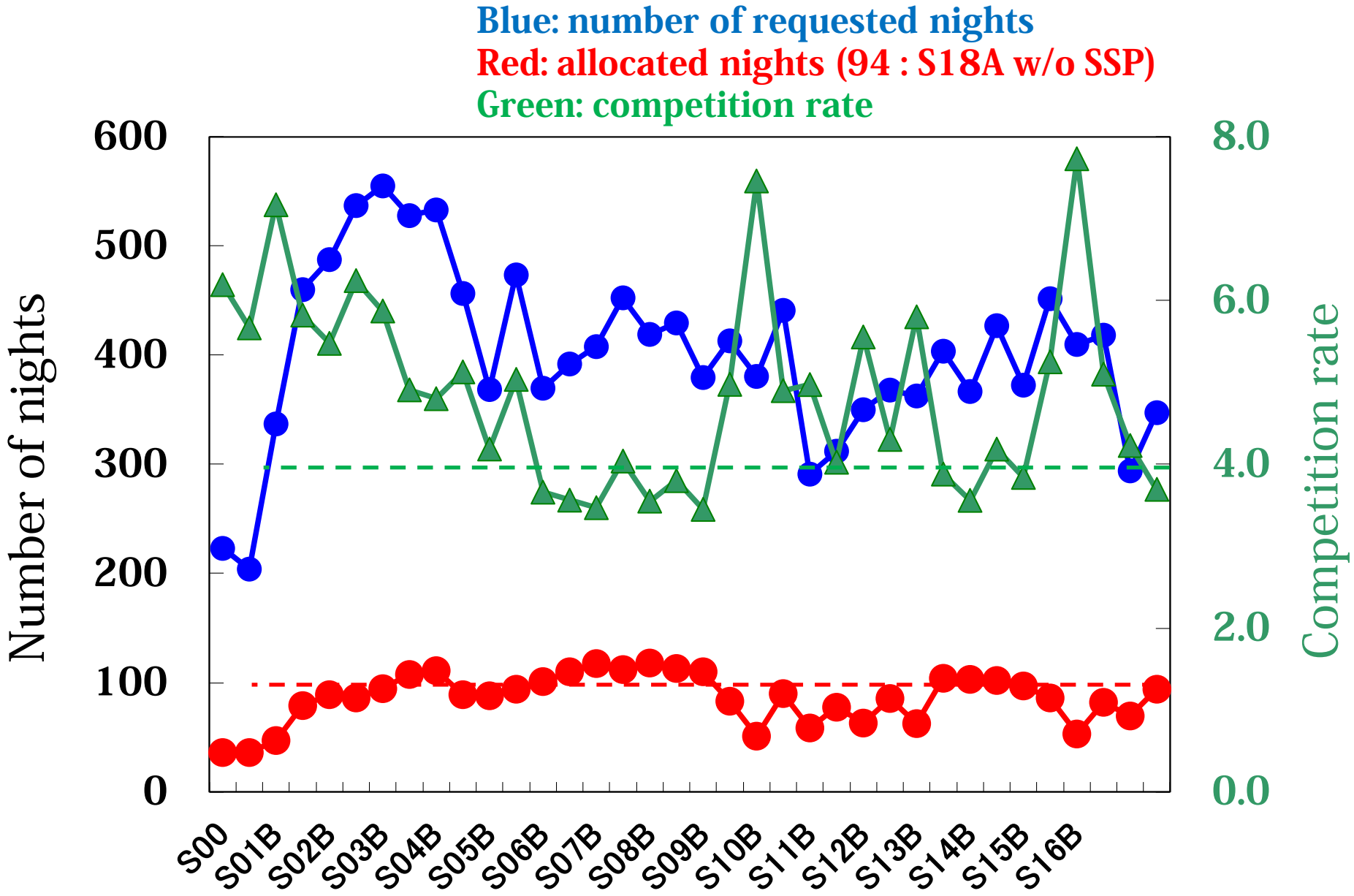
Chair: Masayuki Akiyama (Tohoku University)

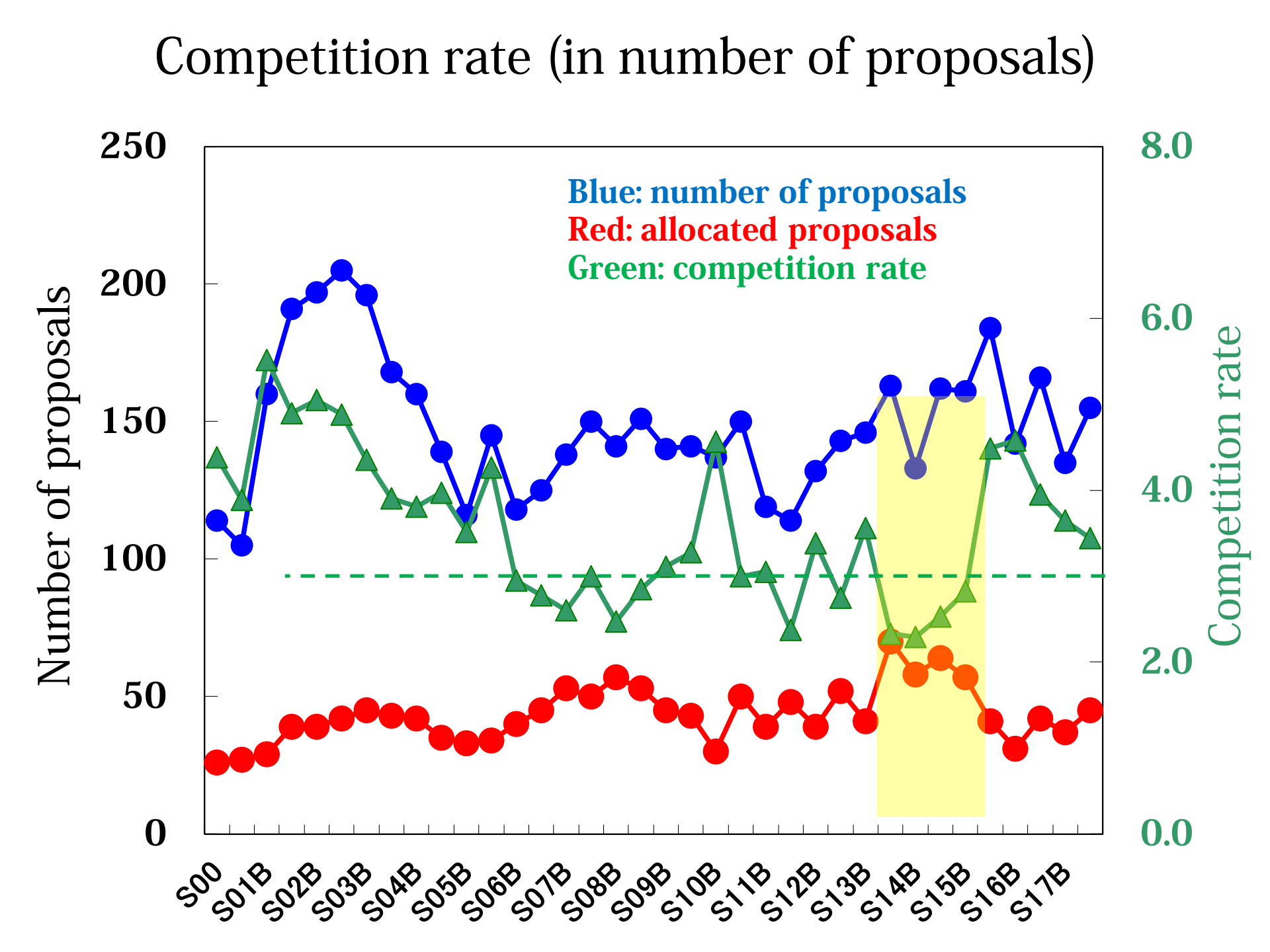
Members: Misato Fukagawa (Nagoya University, Extrasolar Planets)
Mitsuhiko Honda (Kurume University, Star/Planet Formation and ISM)
Kentaro Motohara (University of Tokyo, Nearby Galaxies)
Nozomu Tominaga(Konan University, Compact Object)
Kentaro Nagamine (Osaka University, Structure Formation and Cosmology)
Toru Yamada (JAXA, High-z Galaxies, General)
Youichi Ohyama (ASIAA, AGN and Galaxies)
Yoichi Tamura (Nagoya University, High-z Galaxies)
Toshiya Ueta (Denver University, Stars)
Fumi Yoshida (Chiba Institute of Technolocy, Solar System)

Since S18A time allocation

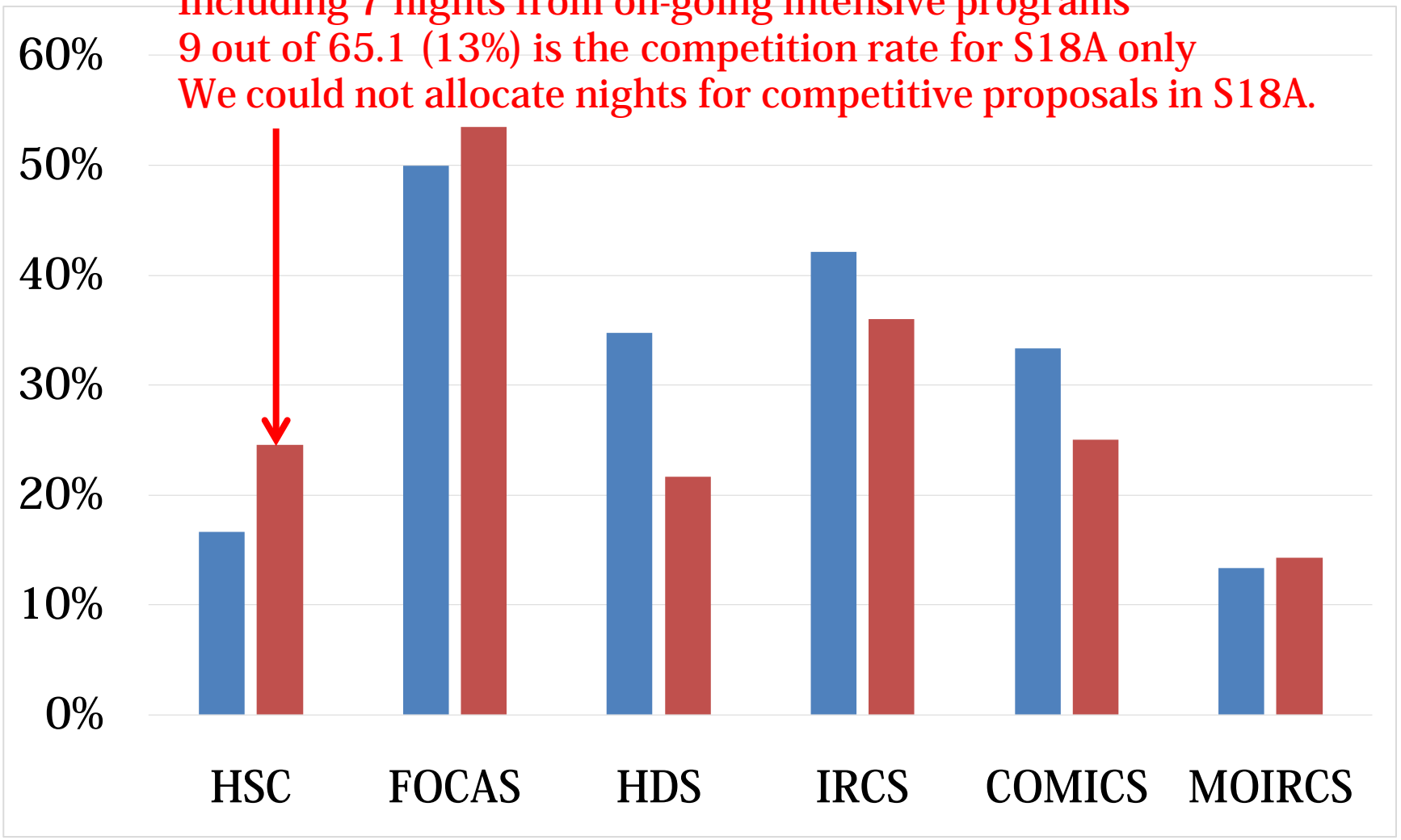
STATISTICS

Competition rate (in number of nights)




Competition rate (in number of proposals)
Blue: number of proposals
Red: allocated proposals
Green: competition rate
Number of proposals
Competition rate
250
200
150
100
50
0
8.0
6.0
4.0
2.0
0.0
S00
S01B
S02B
S03B
S04B
S05B
S06B
S07B
S08B
S09B
S10B
S11B
S12B
S13B
S14B
S15B
S16B
S17B

Allocated fraction by instruments (S18A)

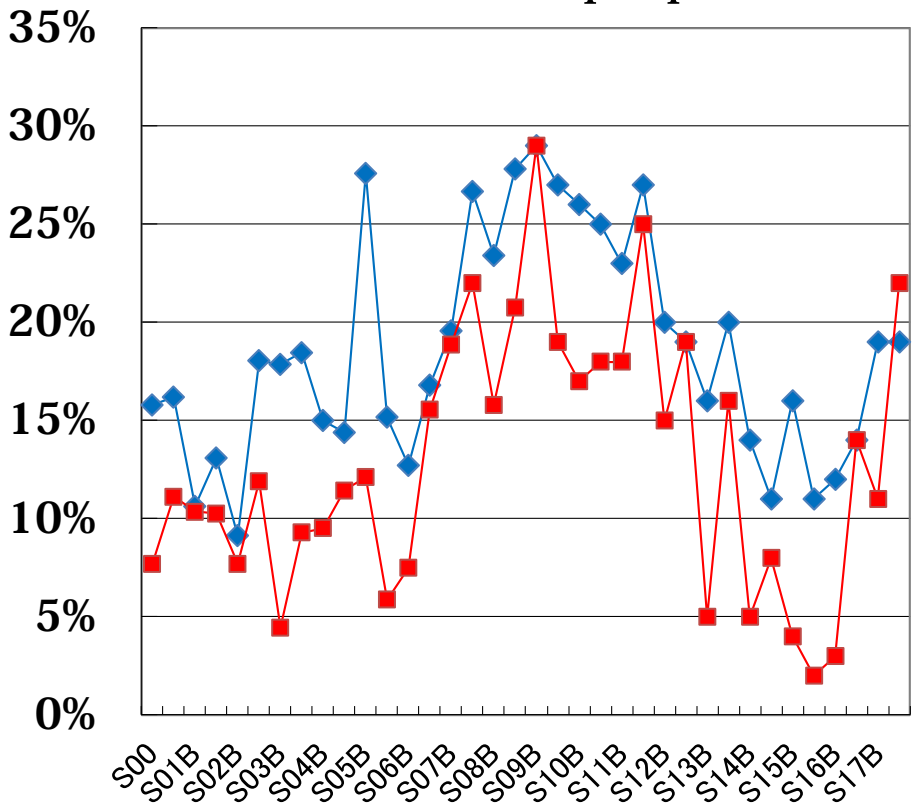


Blue: in number of proposals
Red: in number of nights

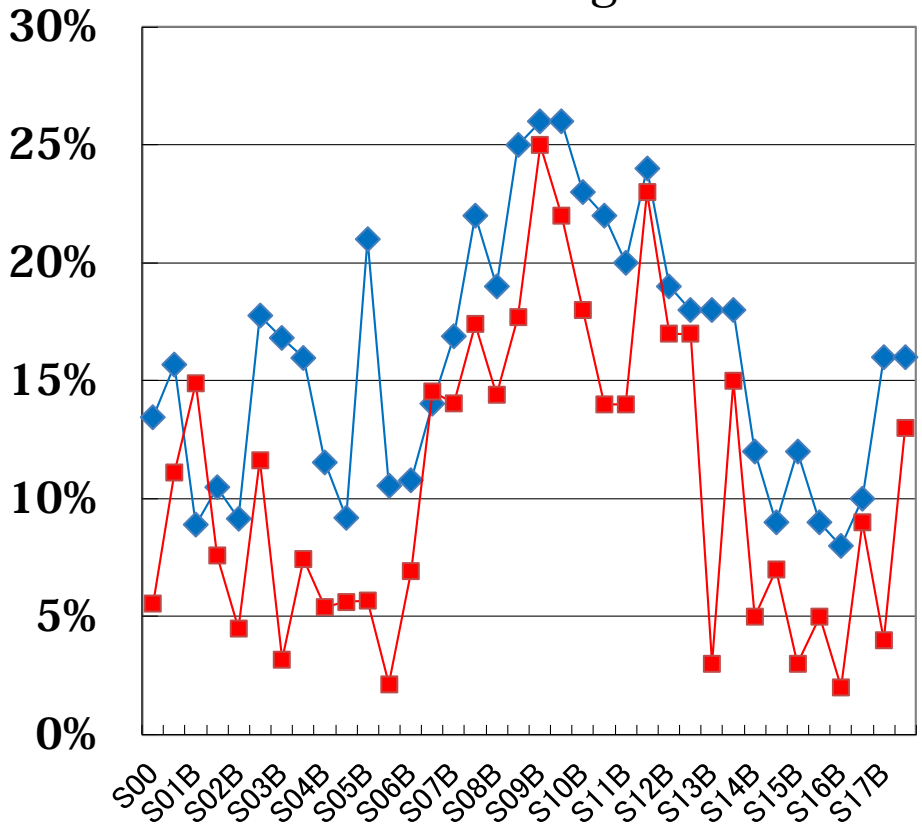
International proposals

Blue: proposed fraction in the total proposals
Red: allocated fraction in the total allocation

Fraction in number of proposals

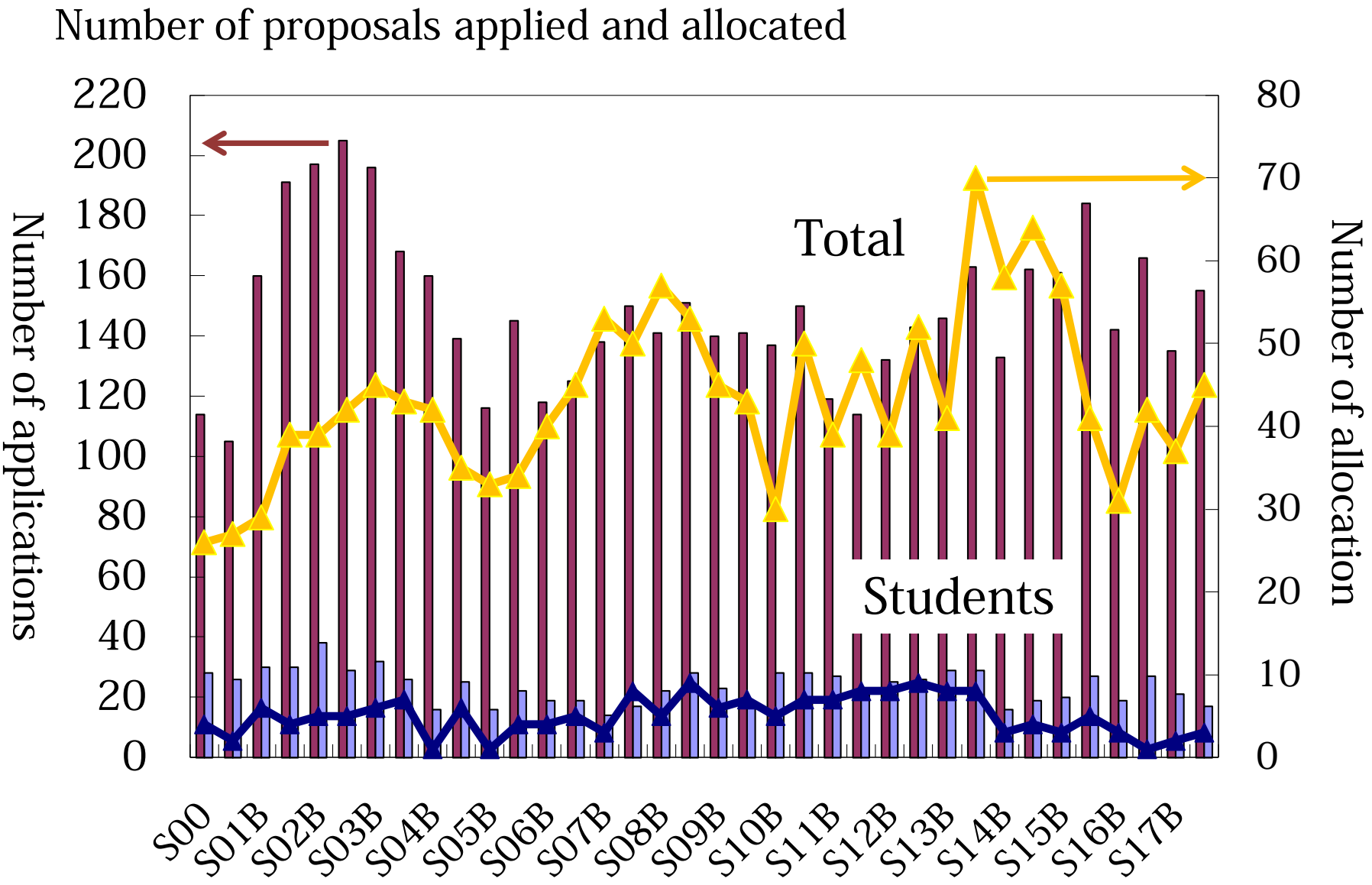


Fraction in number of nights



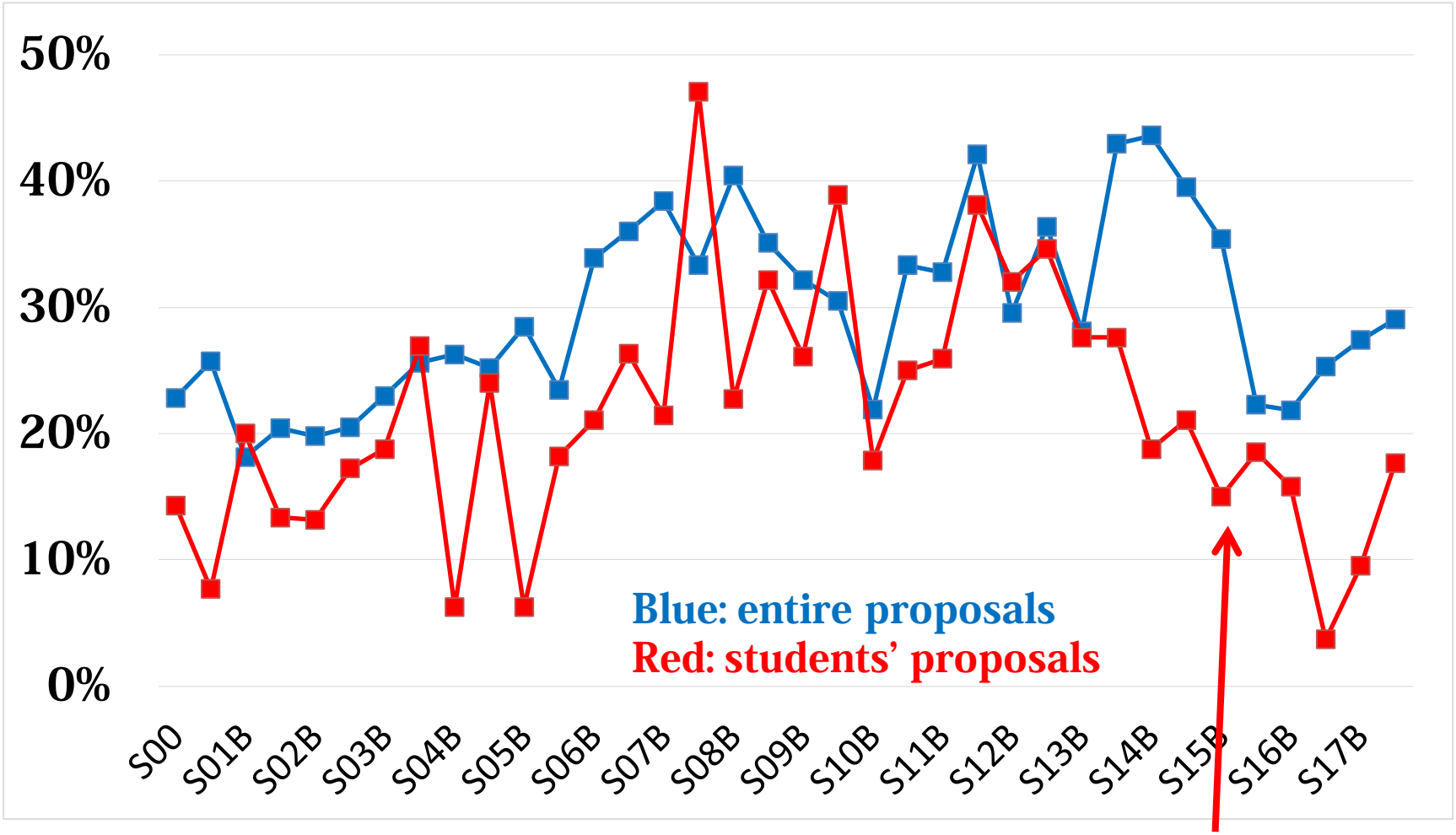
Including “EAO(S17A,S17B)” “AUS(S18A,S18B)” proposals
20-30 proposals per semester (reduced after time-exchange program).

Graduate students' proposals



Graduate students' proposals

Allocated fraction in number of proposals

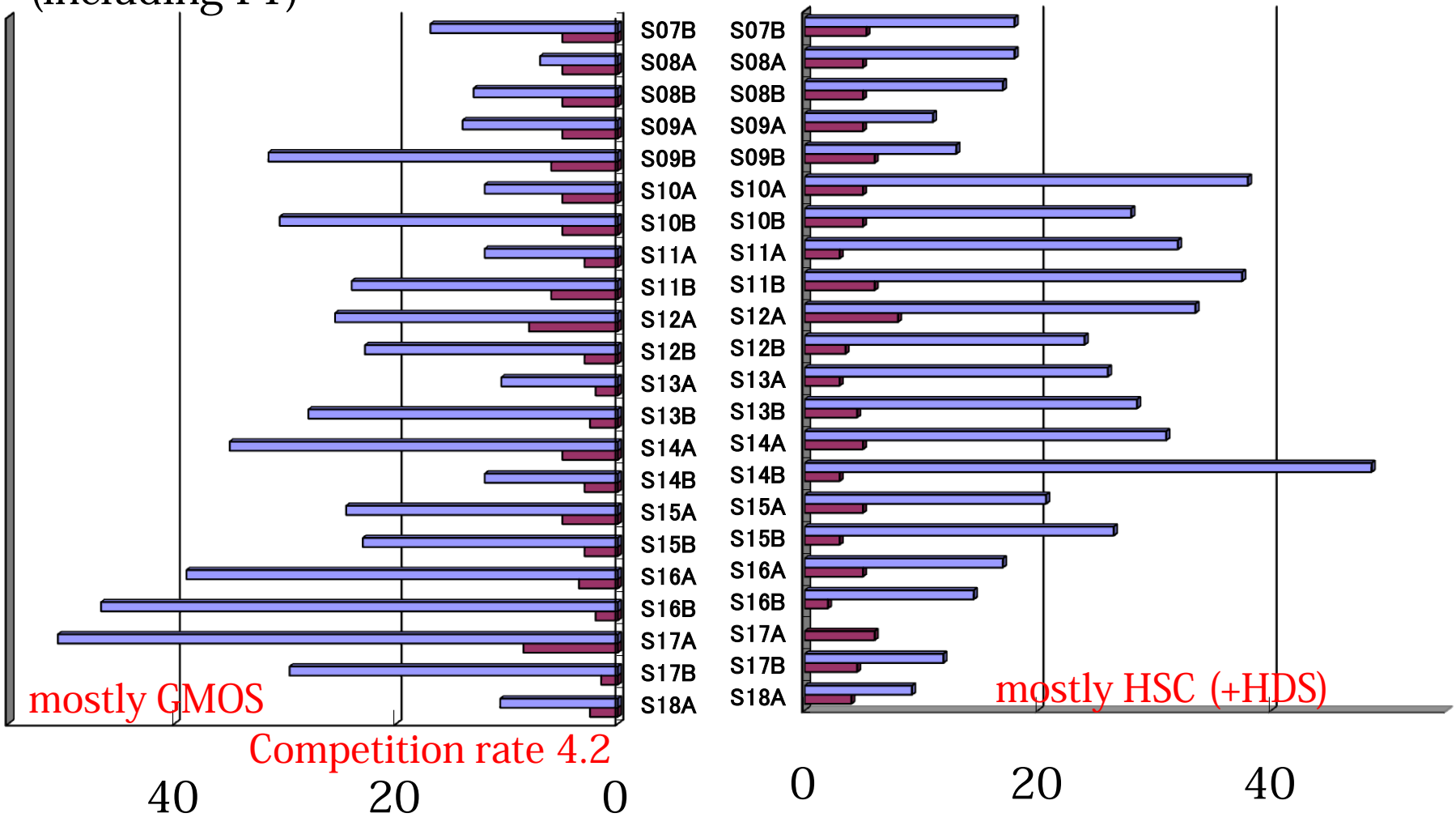


The difference increases in the last few years.
~Once in 6 times for students' proposal (see service program)

Time exchange (number of nights)

From Subaru to Gemini
(including FT)

From Gemini to Subaru

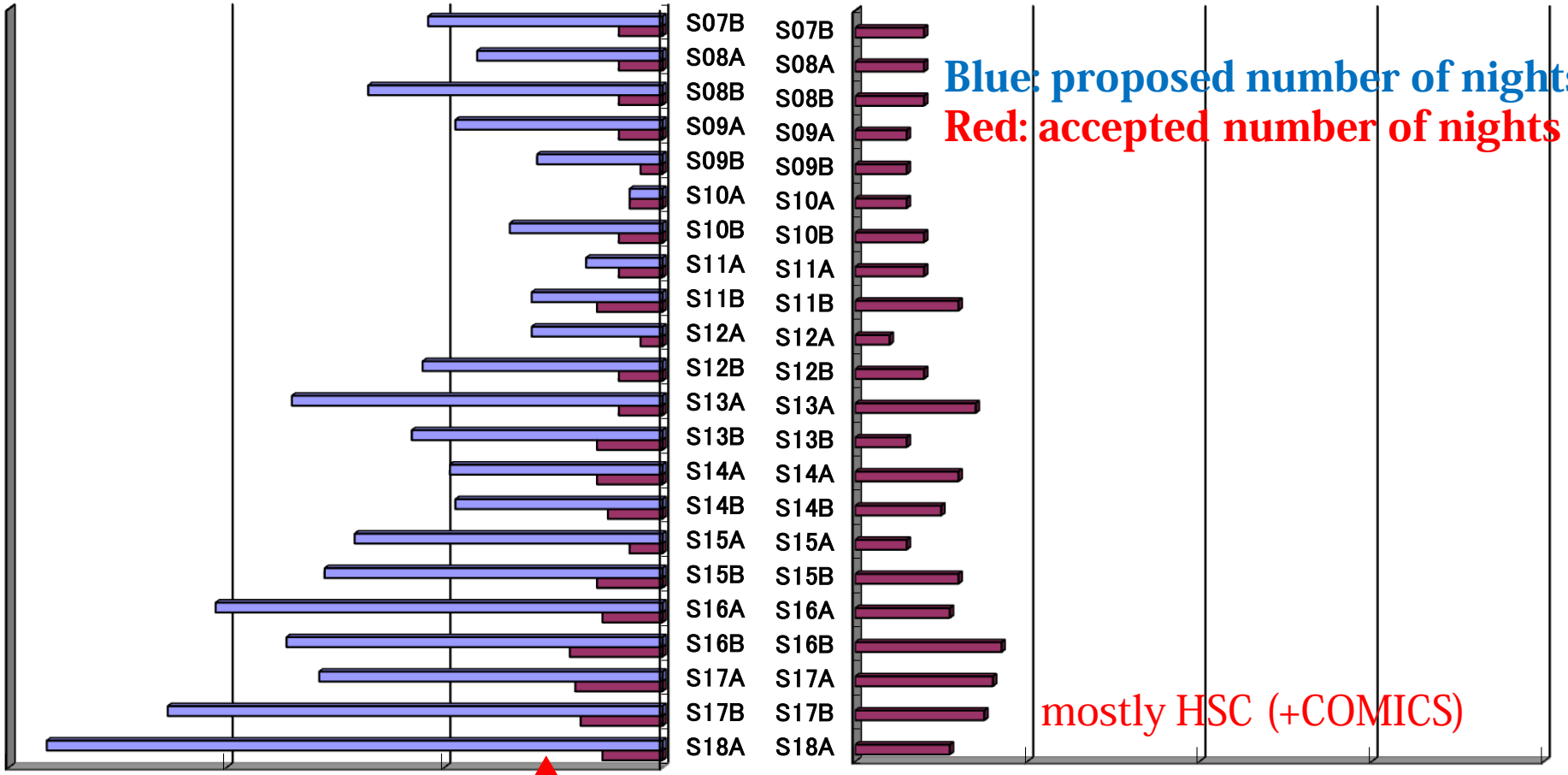


Blue: proposed number of nights
Red: accepted number of nights

Time exchange (number of nights)

From Subaru to Keck

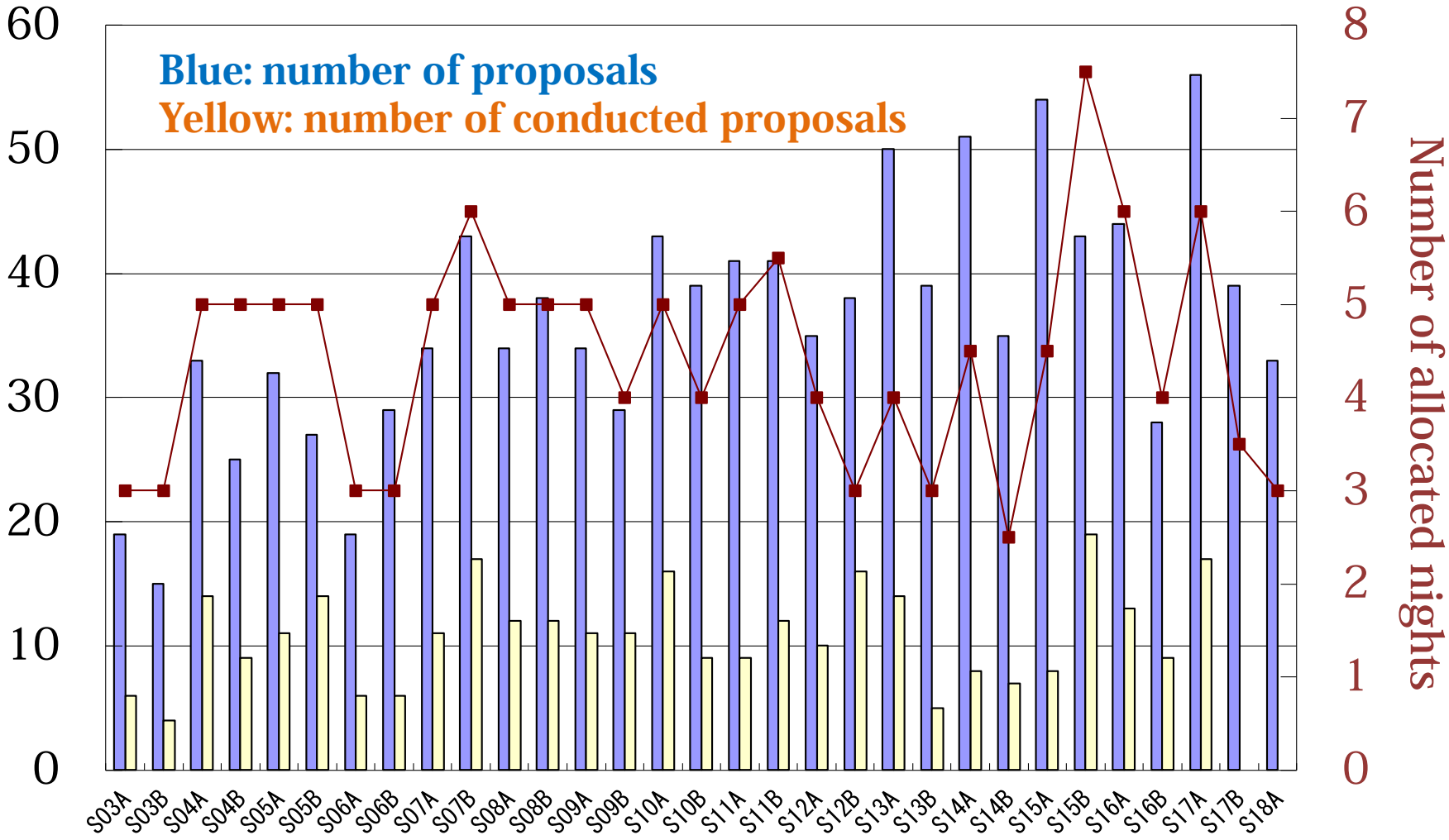
From Keck to Subaru



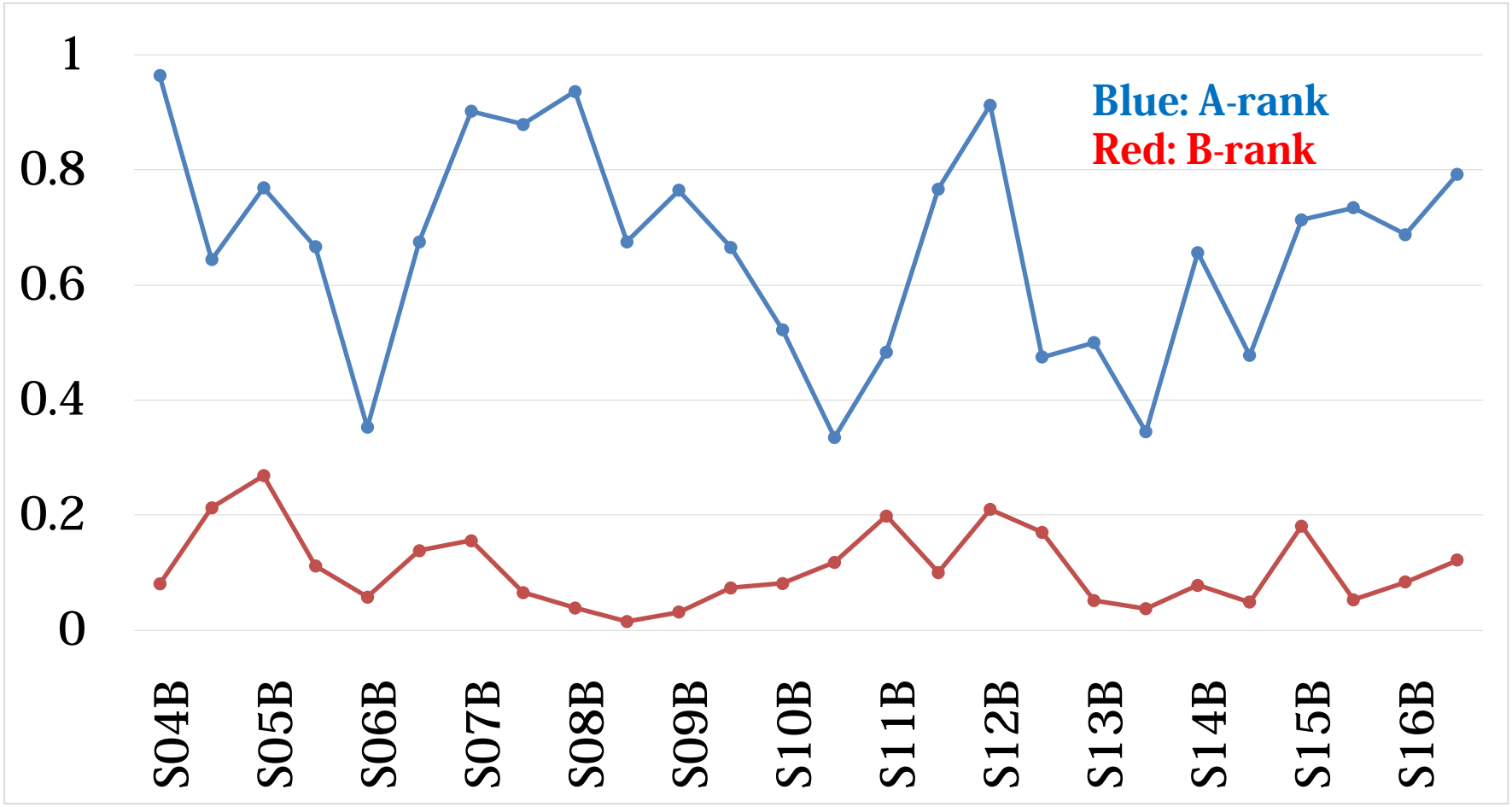
Competition rate 10.3

We could not allocate nights to highly competitive proposals

Service (<4hours) program



Service A-rank / B-rank completion rate



* We would like to increase the number of rank-A proposals by allowing partial acceptance of service proposals.
Relatively easy to apply and relatively low competition rate in number of proposals (not in number of nights) [to encourage student research programs.]

TAC PROCESS OVERVIEW
UNDER DISCUSSION
FOR ELECTRONIC REVIEWING SYSTEM

TAC process (I)

- Categorize proposals into A1-C4 with checking overlap with referees.
- Proposals in each category will be reviewed by a set of referees.
- Each referee reviews 10~20 proposals, do not review a proposal if he/she is a member (PI/coI) of the proposal.
- >5 referees per category, a proposal is reviewed by at least 4 referees.
- Referees in each category are mixture of
  A) researchers using Subaru,
  B) theoretical researchers in the field,
  C) researchers in other wavelength (X-ray, radio, FIR).
  About half of the referees are foreign researchers.

When you write a proposal, please mind this.

Proposal "scientific category" (new names in red)
Roughly in the order of "reviewing category"

- Solar System
- Extrasolar Planets
- Star and Planet Formation → Star formation and young disk
- ISM
- Normal Stars
- Metal-Poor Stars
- Compact Objects and SNe (Black holes, white dwarf, MW)
- Milky Way (MW SMBH)
- Local Group
- Nearby Galaxies
- Cosmology
- Gravitational Lenses
- QSO Abs. Lines and IGM → IGM and absorption line systems (incl. QSO as a background light source)
- Clusters of Galaxies → Clusters and Proto-clusters (clusters of galaxies incl. search for large scale structure at high redshifts)
- Proto-Clusters and Galaxy Environment → Galaxy Properties and Environment(incl. properties of galaxies in proto-clusters)
- High-z Galaxies (LAEs, LBGs)
- High-z Galaxies (others)
- AGN and QSO Activity (incl. associated absorption lines, and properties of their host galaxies)
- Miscellaneous

TAC process (II)

- Number of available nights in each category is determined based on the number of proposals and requested nights in each category.

- Number of available nights for service program is determined based on the total number of service proposals and requested nights.

TAC process (III)

- Science reviewing by referees

  Overall ranking in the category based on

  (1) Scientific importance / Originality :
  (2) Clarity of scientific justification :
  (3) Feasibility to achieve the proposed goal :
  (4) Use of (Subaru) telescope capability

  (Confidence)

- Scoring sheet

When you write a proposal, please mind this.

```
# ------------------------------------------------------
# ID      [ranking]    |(1)|(2)|(3)|(4)|Confidence|
# ------------------------------------------------------
  S18A-001  [ 3]     | A | A | A | A |  a  |
  S18A-002  [ 5]     | A | A | B | B |  a  |
```

  Average of the rankings by referees in each category is “the score”,

- + Technical reviewing by SA :

- <u>We would like to thank in-depth reviewing by many referees.</u>

TAC process (IV)

- Allocate nights in each category based on
  1. Overall score : average of the ranking scores from referees.
  2. Availability of time exchange
     2ry telescope / instrument choice
  3. Availability of HSC nights
  4. Scheduling constraint
     Dark / Gray / Bright
     Instrument exchange
     Time critical constraint

Notes

- Competition rates for (1) Keck-Subaru exchange and (2) HSC proposals are high compared to the other proposals.
- Proposal category description will be changed from the next call (S18B).
- We will introduce partial acceptance of service proposals in order to reduce the competition rate of the service program [to encourage student research programs.]