

TAC Report

Akio Inoue (Waseda University)
On behalf of TAC12

Special thanks to Chie Yoshida and Sakurako Okamoto for data collection and plotting.

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TAC12

August 2021 (S22A) to July 2023 (S23B)

Akio Inoue (Chair; Waseda University)

New members

Fumi Egusa (University of Tokyo)

Keiichi Maeda (Kyoto University)

Noriyuki Matsunaga (University of Tokyo)

Toru Misawa (Shinshu University)

Sakurako Okamoto (NAOJ)

Yoshiaki Ono (University of Tokyo)

Takanori Sasaki (Kyoto University)

Takahiro Sumi (Osaka University)

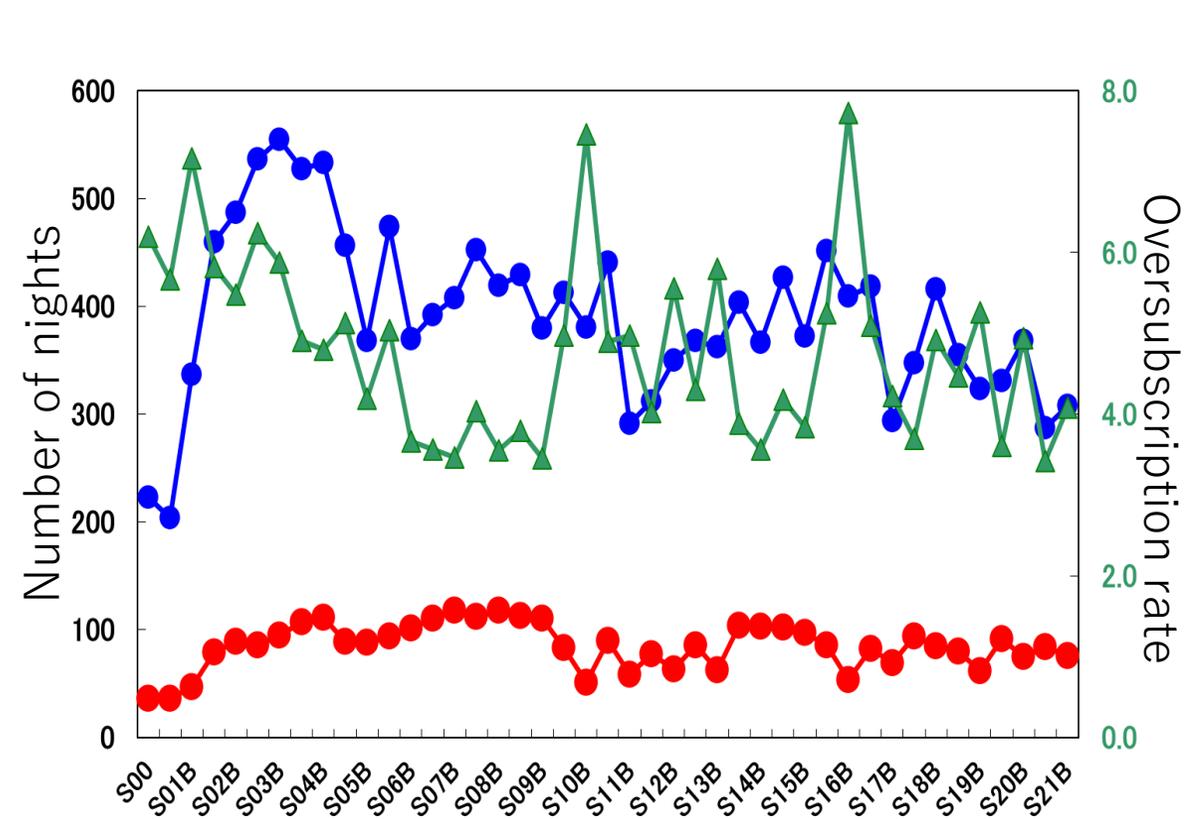
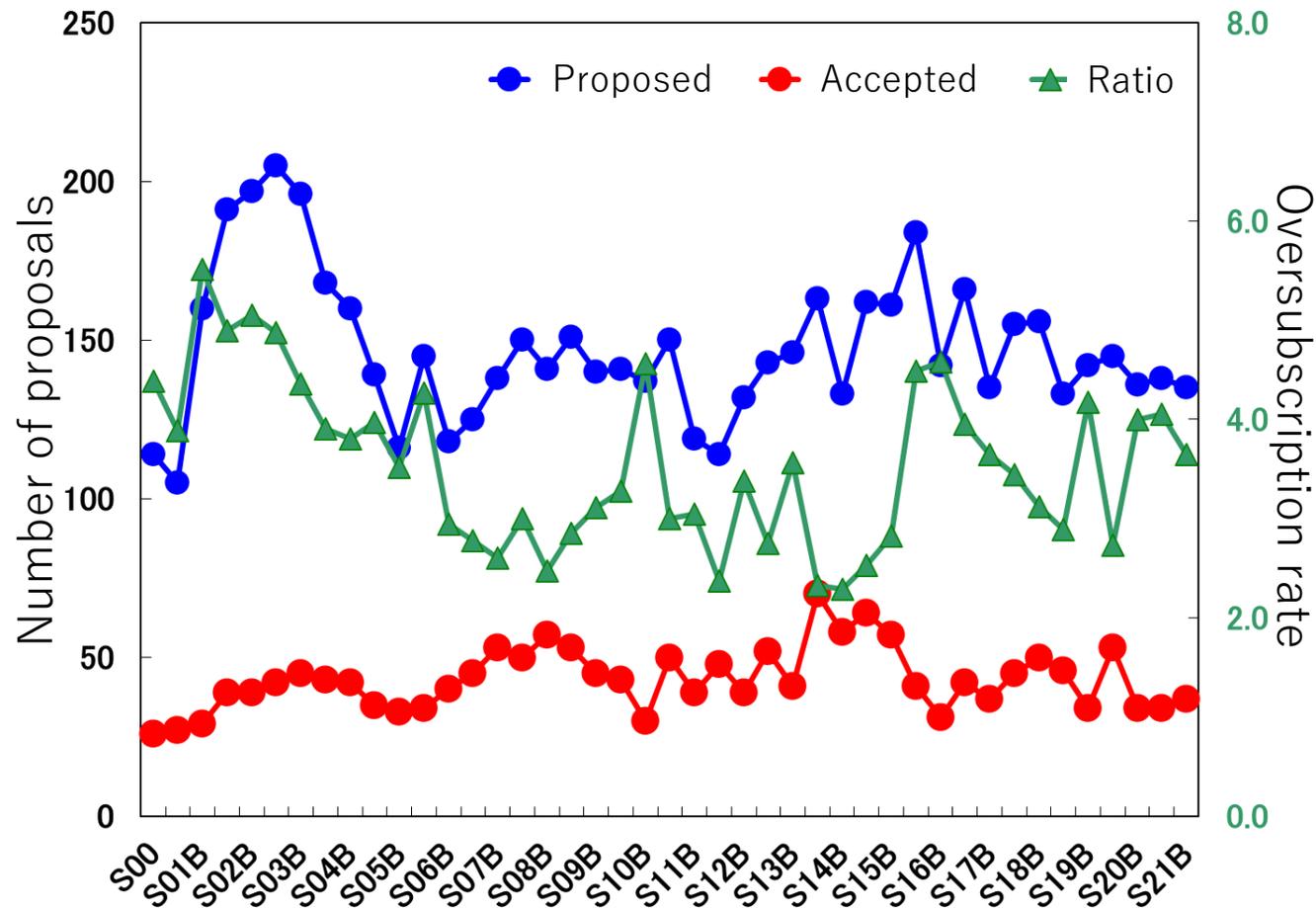
Michihiro Takami (ASIAA)

Makoto Uemura (Hiroshima University)

Hidenobu Yajima (University of Tsukuba)

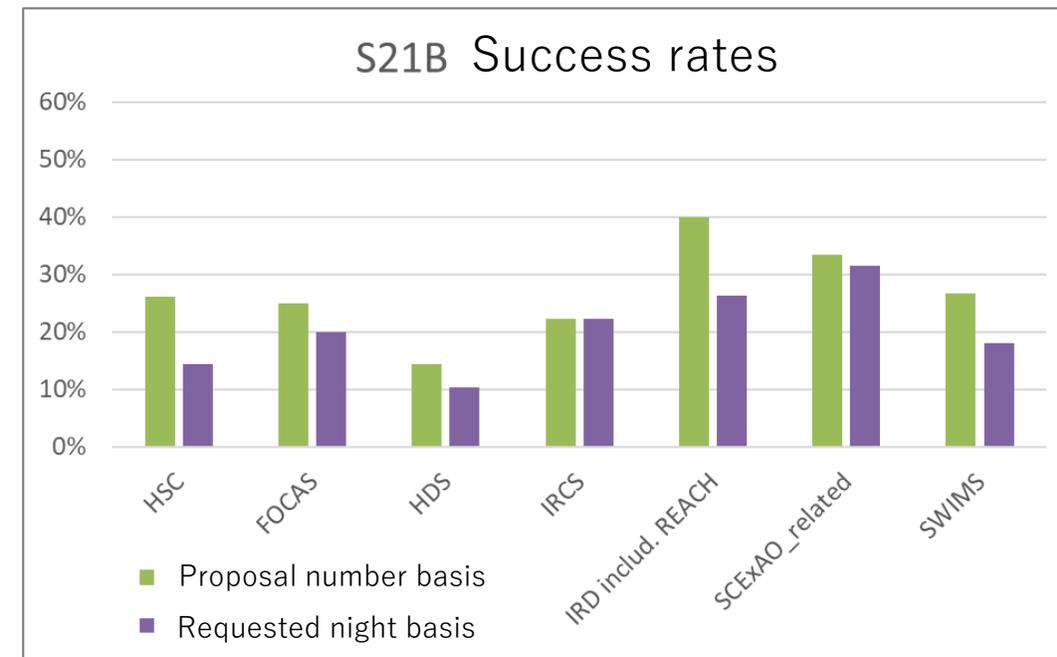
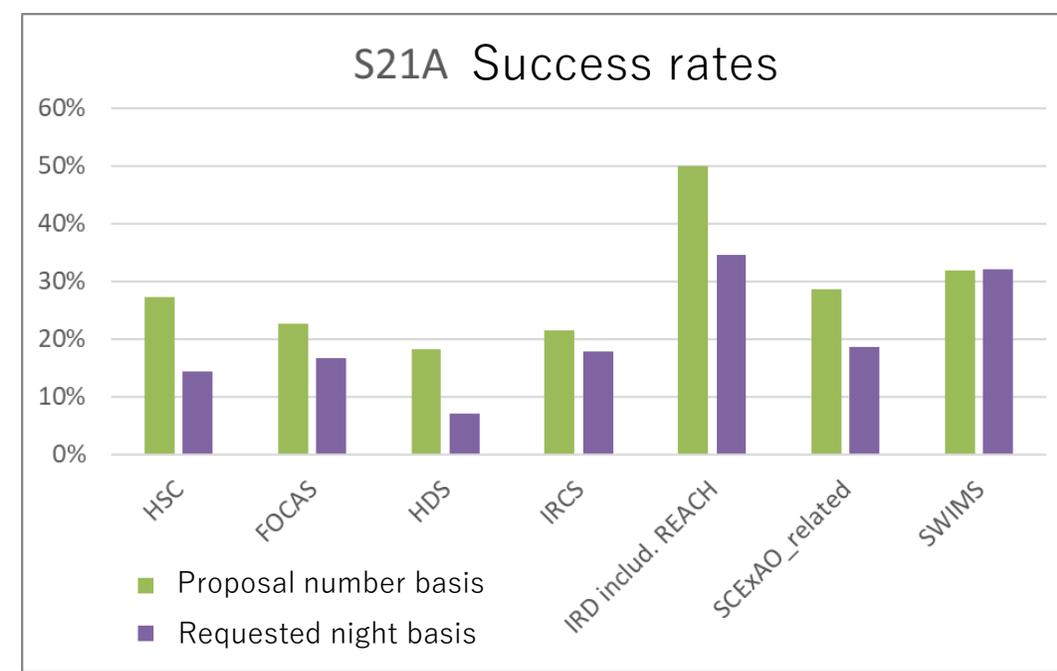
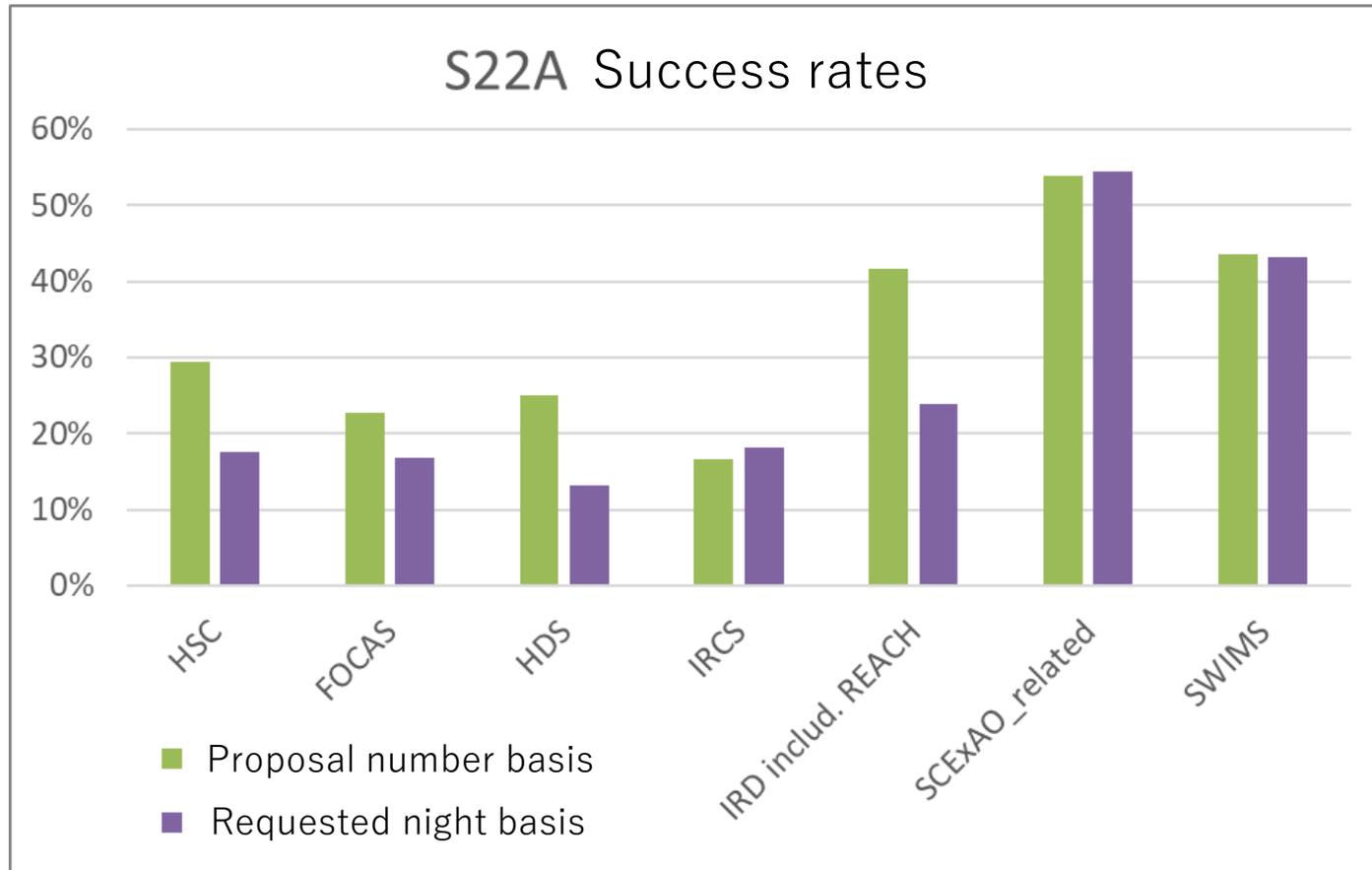
Statistics

- Proposal numbers, hours, and oversubscription rates.



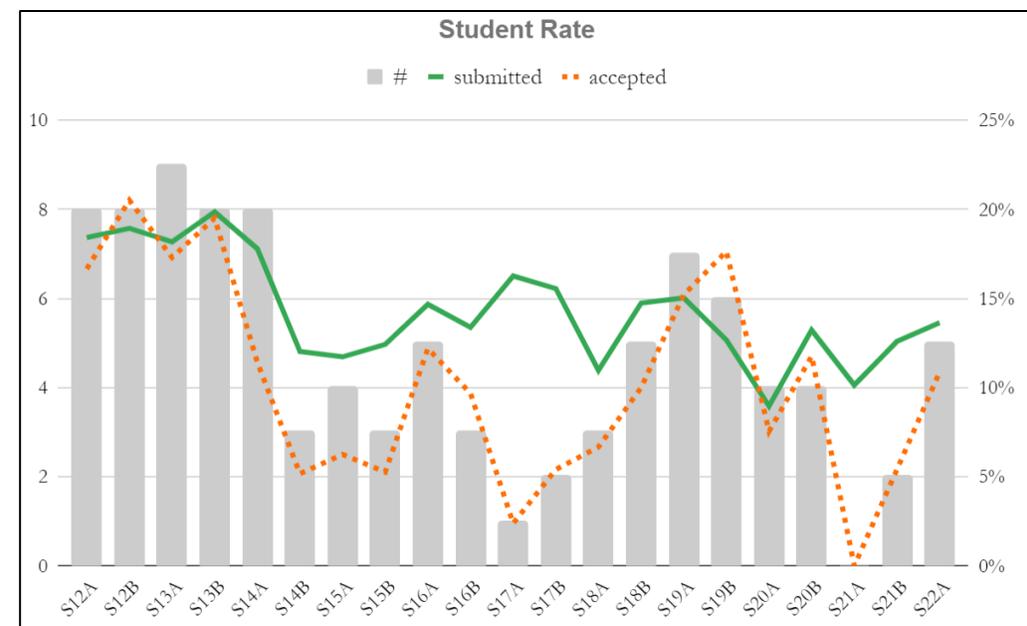
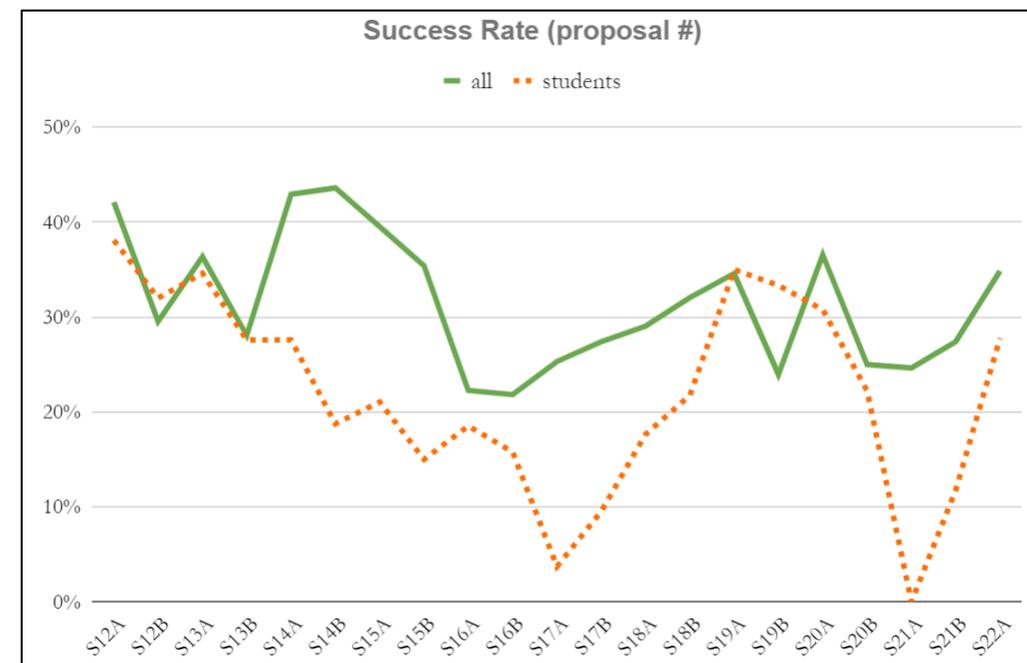
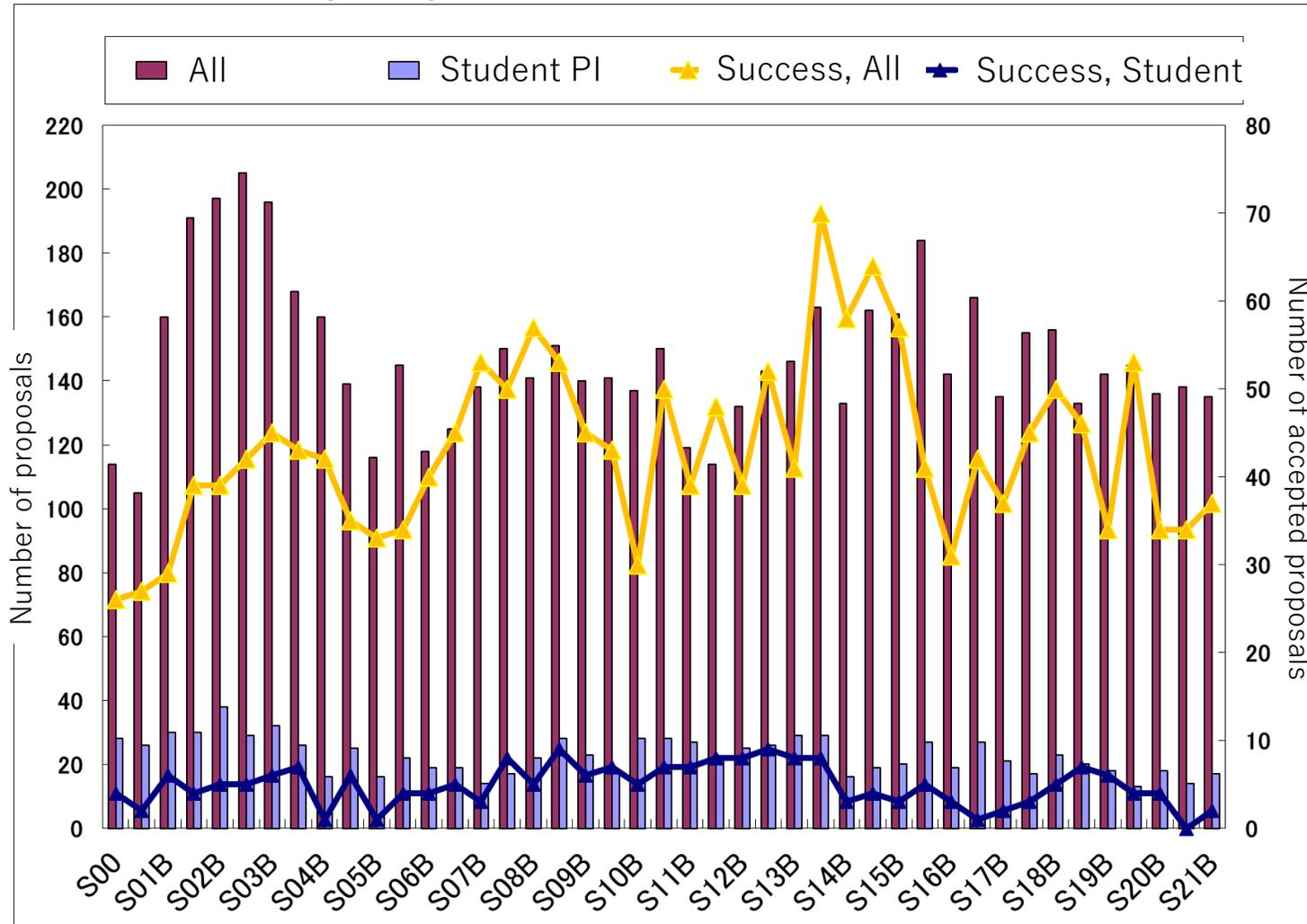
Statistics

- Success rates based on instruments
 - Exc. Already selected Intensive programs



Statistics

- Student proposals

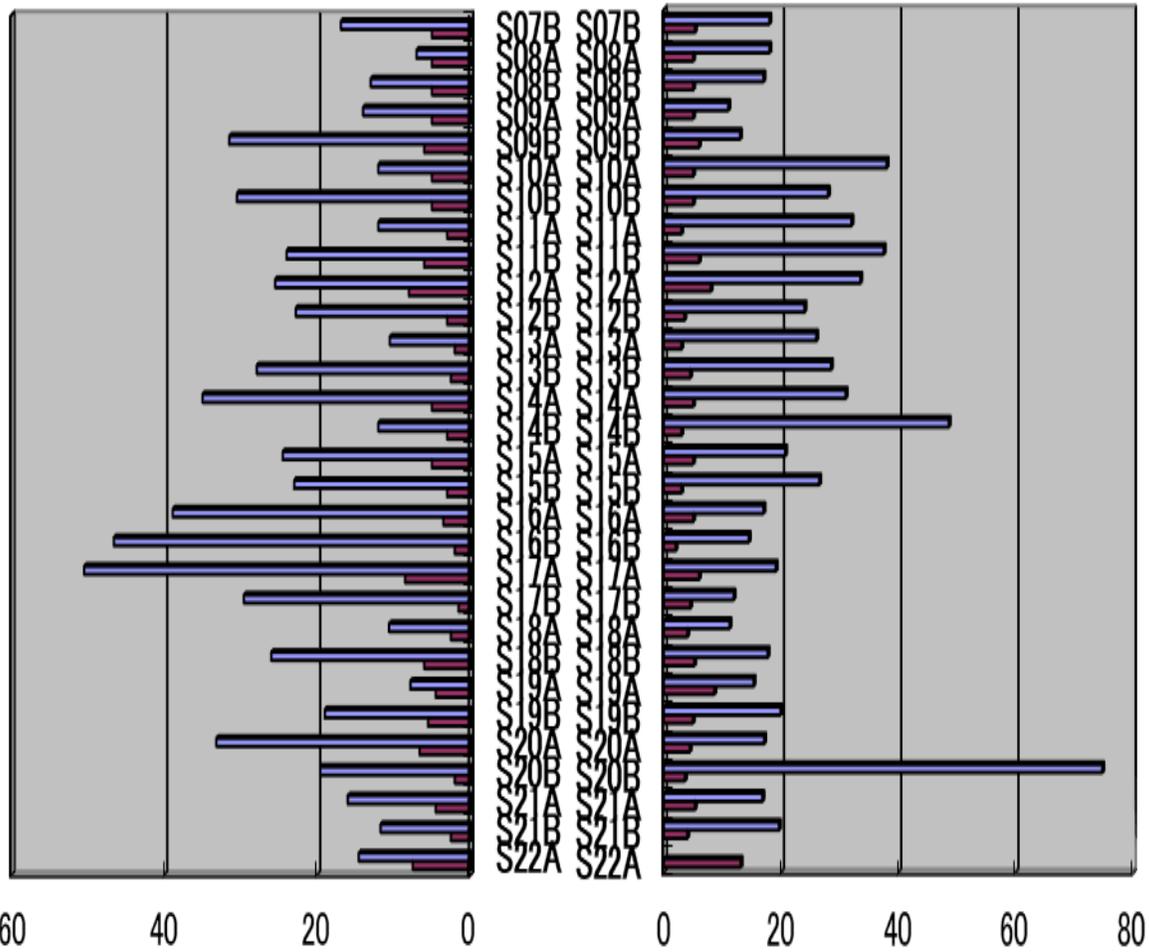


Statistics

- Time-exchange

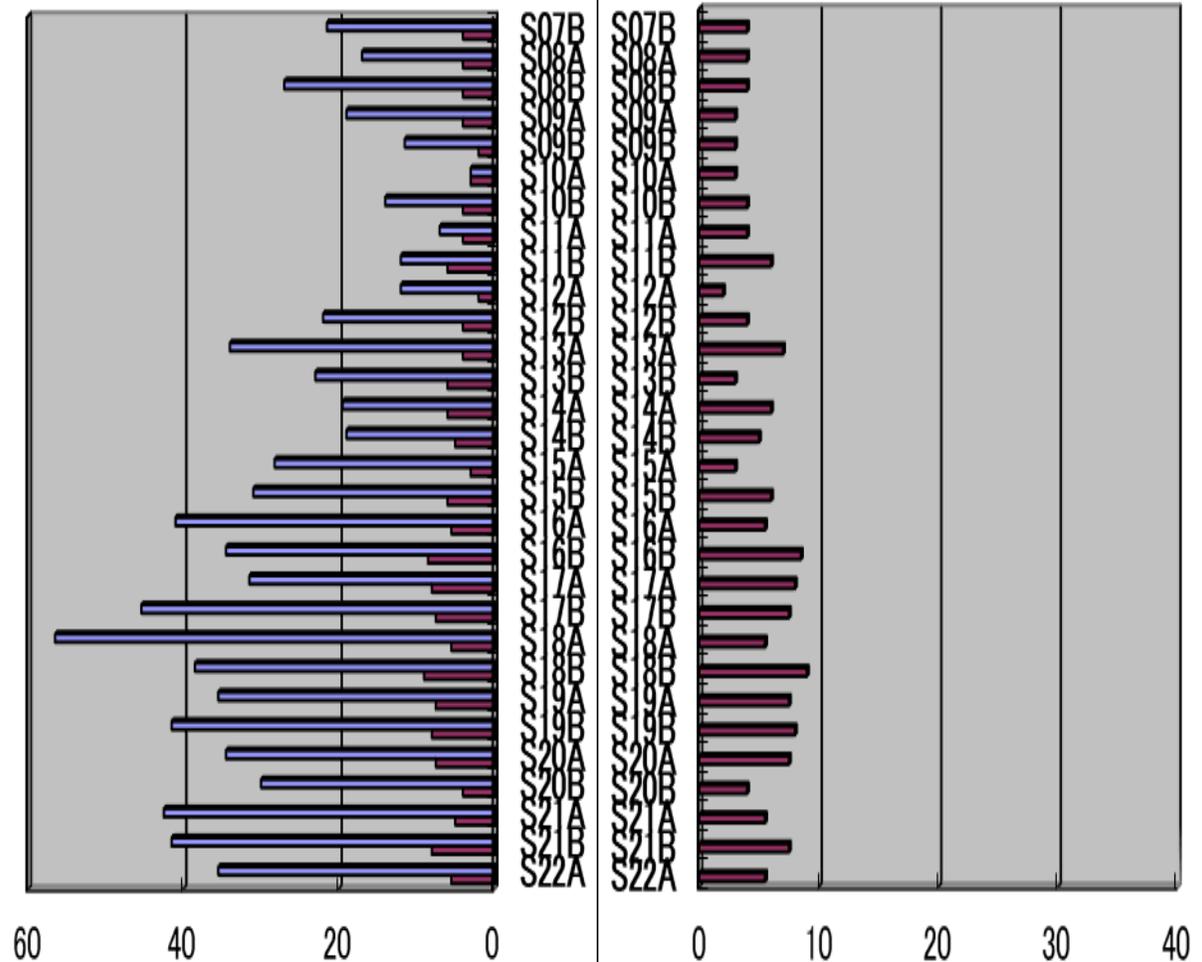
Subaru → Gemini

Gemini → Subaru



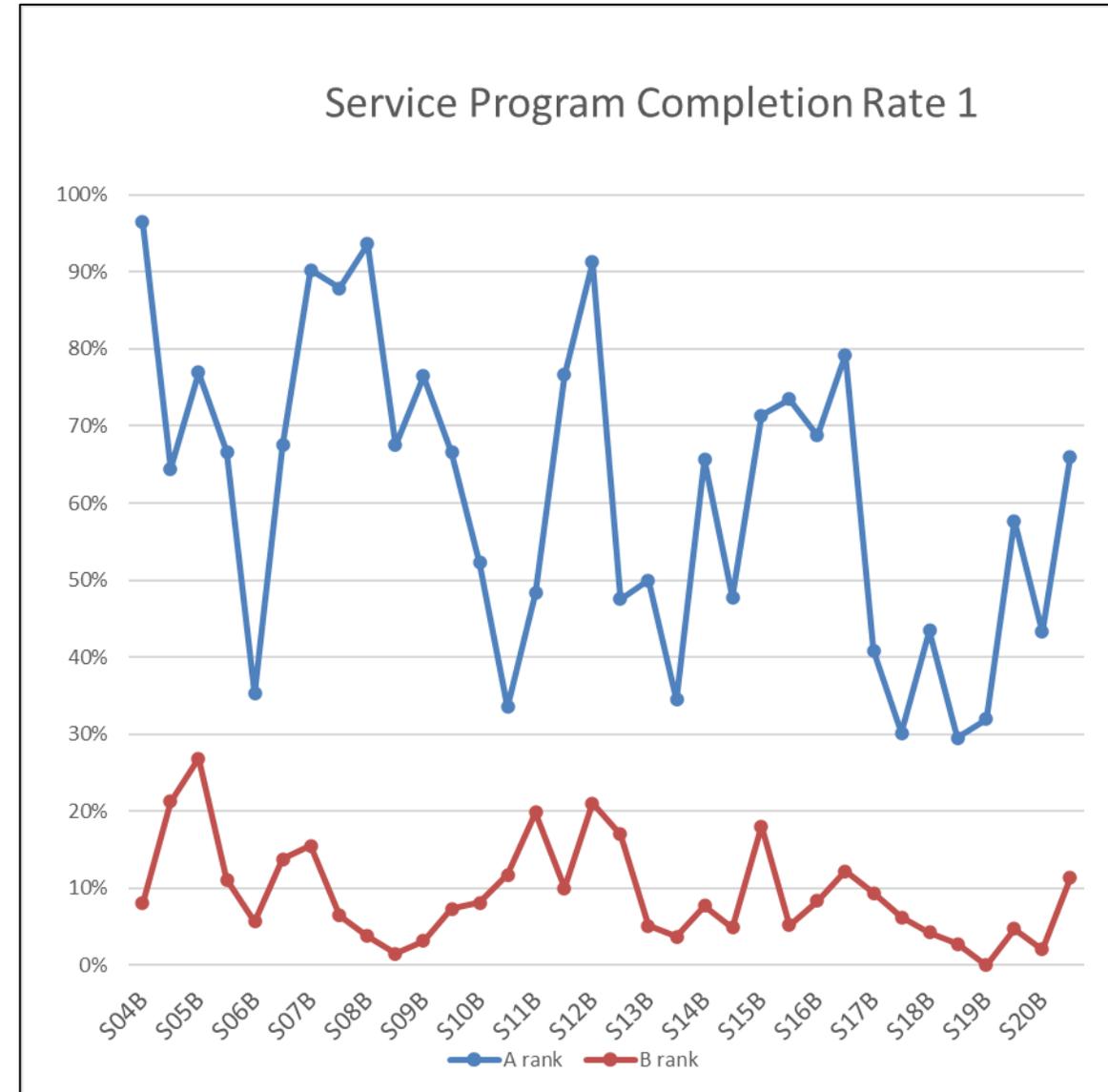
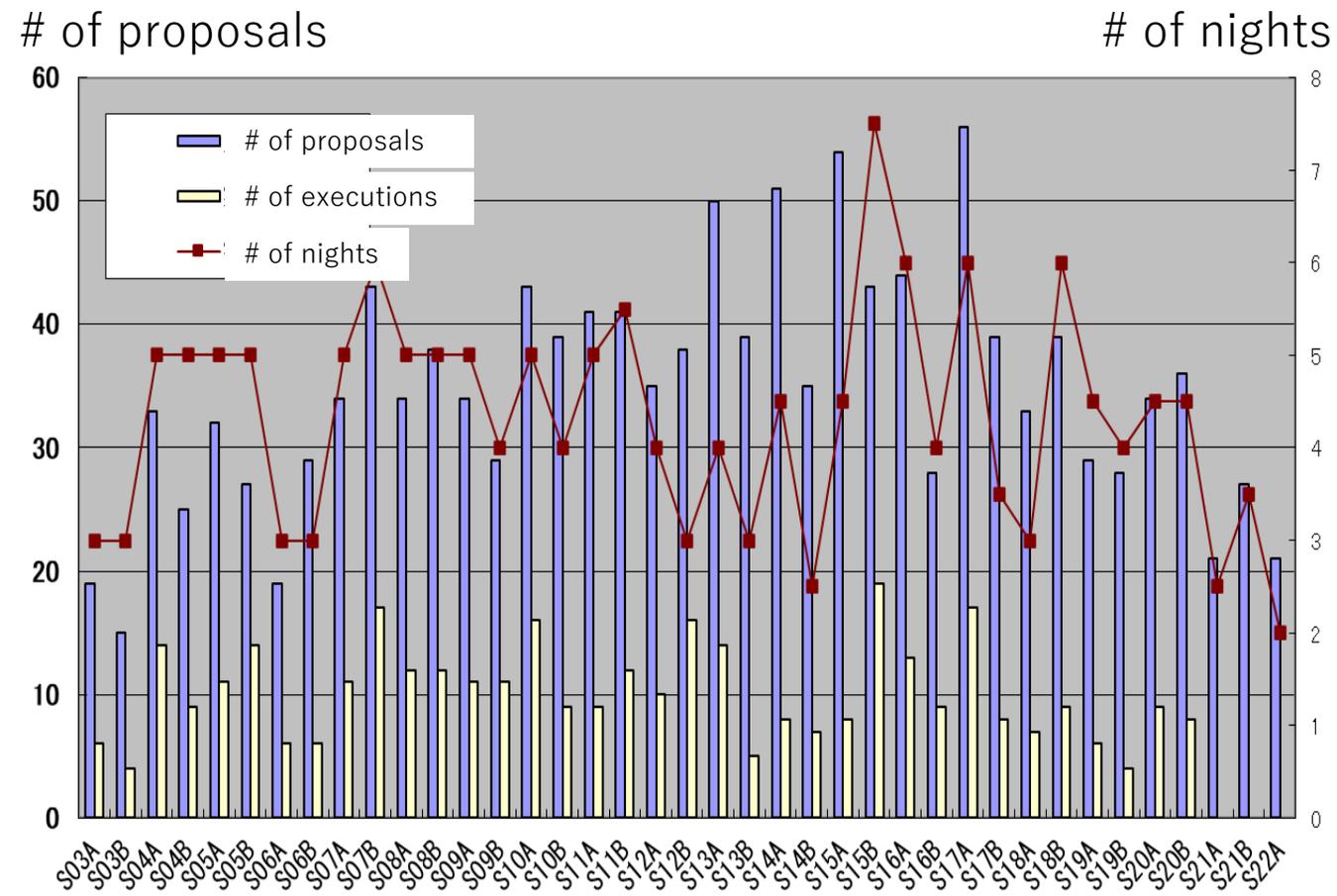
Subaru → Keck

Keck → Subaru



Statistics

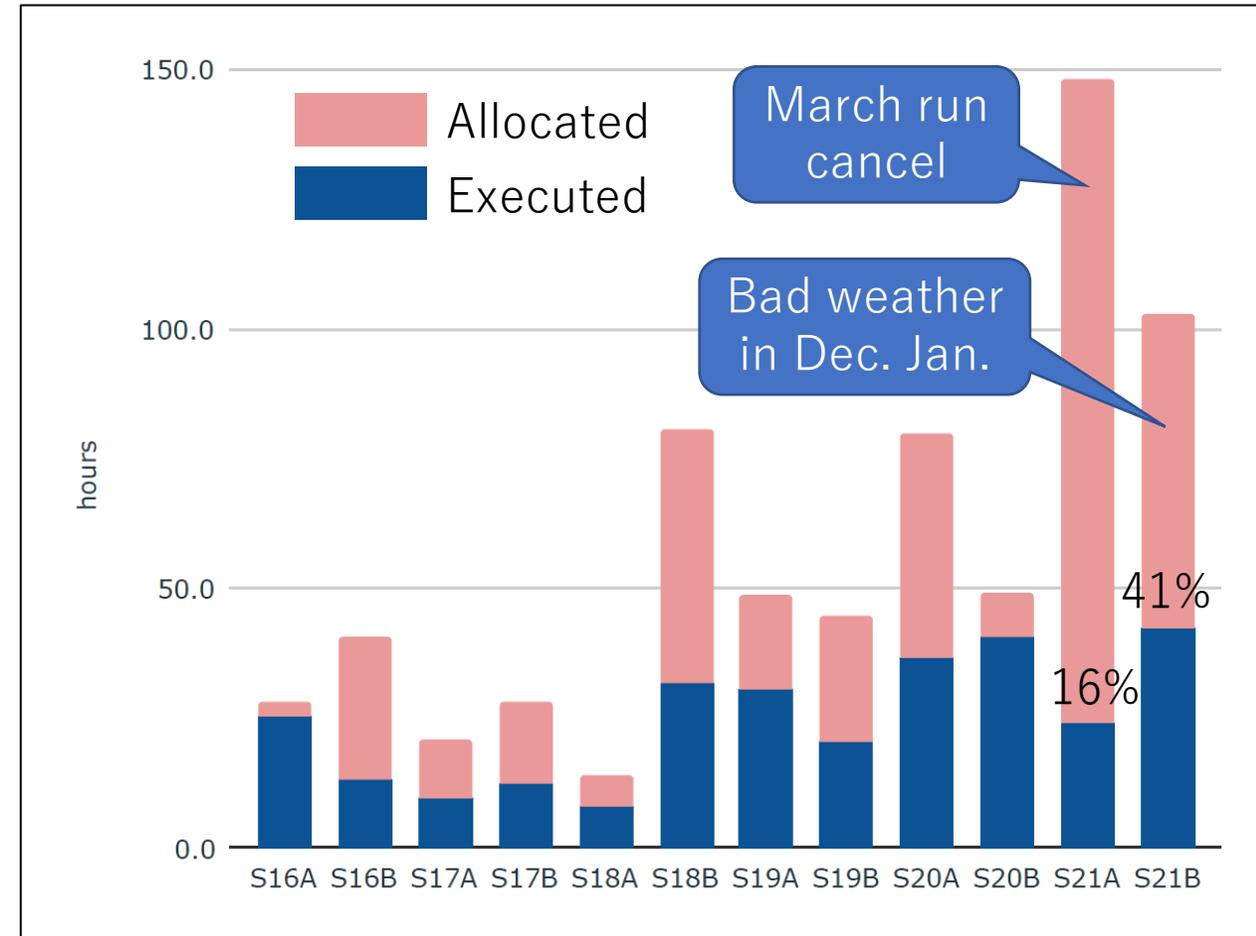
- Service programs



HSC queue mode

- Queue mode is the default mode for HSC observations.
 - exc. Time-critical or NB at $\lambda < 4000A$
- Grades:
 - A(+): Intensive (, Normal)
 - A(-): UH/Keck/Gemini
 - B: Normal (, Keck/Gemini)
 - C: Backup Normal programs
 - F: Filler programs for poor conditions
- Carryover policy
 - A(+) but Intensive (S22A-)
 - Intensive selected before S21B may be carried over if PI choose the option and TAC accepts the request.

Statistics for Grades A & B for Open Use



Restriction to Gemini exchange programs

- SAC decisions:
 - Fast Turnaround (FT): **1.2 nights at maximum** during a semester
 - Up to 4 hours (=0.4 nights) bimonthly (odd-numbered months)
 - Normal: **3 nights at maximum** in each semester in S22B/S23A/S23B
 - TAC is also asked to spare nights, which are remained in the Open Use allocation, for programs from Gemini as much as possible, instead of taking back-up programs.
- A remark for FT:
 - “Duplication” in Subaru Open Use and Gemini FT is not good...
 - TAC has not checked any FT programs so far, but some may be a “duplicate” of a Normal program.
 - NOTE: TAC does not define the “duplication” yet.
 - FT proposers are recommended to justify/explain how their Normal program is different from the FT program and vice versa.

Instrument changes in Intensive programs

- S21B: IRCS to SWIMS in S21A-0069 (PI: Ouchi)
 - IRCS/AO slit acquisition for continuum faint target galaxies turned out difficult technically. PI requested to change SWIMS/MOS or long-slit.
 - TAC was asked to re-evaluate the scientific value of the Y-band observation and acknowledged its high scientific value.
 - The observatory directorate decided to accept the change request.
- S22A: IRD to Gemini/MAROON-X in S21B-118 (PI: Narita)
 - Due to the Telescope downtime (primary mirror recoating) and pre-scheduled engineering runs (PFS), the available IRD nights were limited and not flexible enough to allocate the time critical observations of this program. PI submitted a request to change a part of their IRD nights to Gemini/MAROON-X.
 - TAC was asked to discuss the possibility to accept the change request.
 - TAC acknowledged its high scientific value and recommended the directorate to accept the request as much as possible.
 - 3.5 nights were changed from IRD to Gemini/MAROON-X.

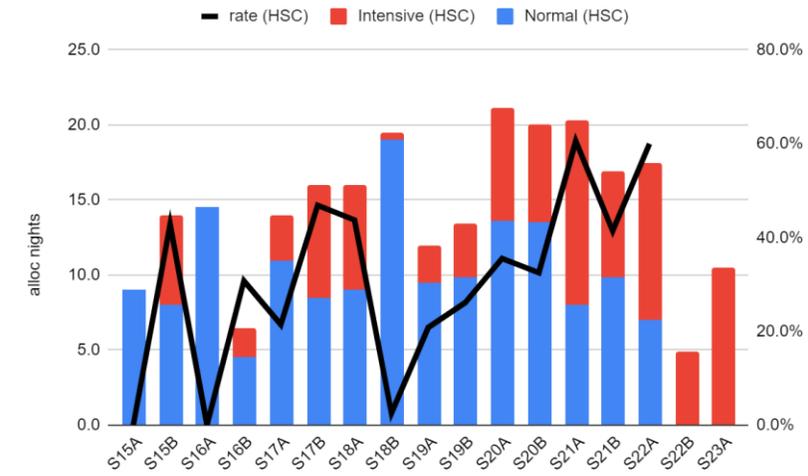
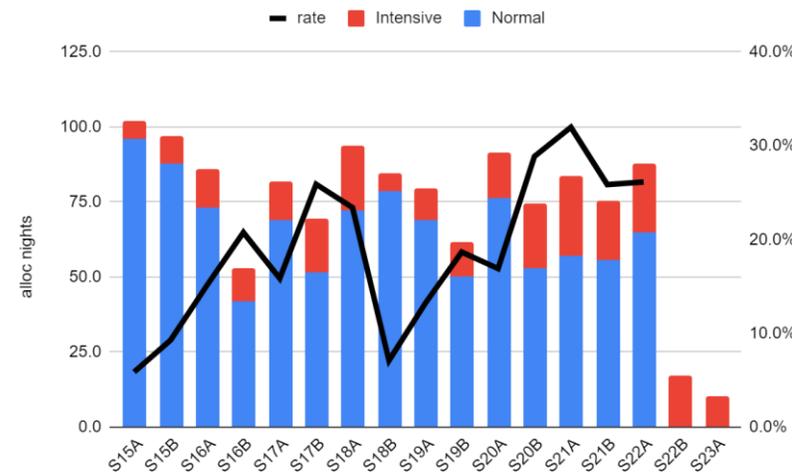
Mid-term review for Intensive programs

- The maximum nights/semesters in Intensive programs are expanded from S16B. TAC is asked to conduct mid-term reviews for “something big” Intensive programs.
 - In CfP of S18B and later, “over 3 semesters and 20 nights”.
- There were confusions in the definition “big” in different documents and no mid-term review was conducted so far.
- TAC will conduct mid-term reviews for on-going Intensive programs as defined in CfP.
 - S20B-097 (PI: Oguri)
- For every future program, TAC will decide, at the time of acceptance, whether and when a mid-term review is necessary in order to judge whether the program may be continued or not.

Discussion (1): Balance between Normal and Intensive

- On going Intensive programs
 - S20B-097 (Oguri) : S20B-S23A (6 semesters), HSC 200.9 hours
 - S21A-069 (Ouchi) : S21A-S22B (4 semesters), FOCAS+SWIMS 10 nights
 - S21A-114 (Matsuda) : S21A-S23A (5 semesters), HSC 9.8 nights
 - S21B-118 (Narita) : S21B-S22B (3 semesters), IRD 30 nights
- Intensive time fractions
 - ~25% in Open Use time
 - ~50% in HSC time

- What is a right balance?
- Should we have a cap?



Discussion (2): Reorganization of review categories

- New categories?
 - Galactic archaeology? Circumgalactic medium?
 - Option to choose the secondary category?
 - Larger grouping?
 - Relation with Intensive program review?
 - New review systems like “Distributed Peer Review”?
 - “Dual anonymous” review?
 - Having a “second stage” ?
-
- Proposal # [S22A, S21B, S21A, S20B, S20A] Bold is Intensive
 - A [23+**1**,21+**1**,28,26+**1**,26+**1**]
 - A1: Solar system [5+**1**,9,7,6,6+**1**]
 - A2: Extrasolar Planets [18,12+**1**,21,20+**1**,20]
 - B [35,40+**1**,34,30,36]
 - B1: Star Formation and Young Disk, ISM [14,15+**1**,14,8,14]
 - B2: Normal Stars, Metal-Poor Stars [11,12,6,9,10]
 - B3: Compact Objects and SNe [10,13,14,13,12]
 - C [73,70,75+**2**,73+**2**,81+**1**]
 - C1: IGM and Abs. Line Systems, Cosmology, Gravitational Lenses [11,15,12+**1**,14+**2**,14+**1**]
 - C2C: Clusters and Proto-Clusters, Galaxy Properties and Environment [15,13,17,13,18]
 - C2G: High-z Galaxies (LAEs, LBGs), High-z Galaxies (others) [19,18,17+**1**,19,19]
 - C3: Milky Way, Local Group, Nearby Galaxies [10,6,8,9,11]
 - C4: AGN and QSO Activity [18,18,21,18,19]

of Normal proposals

