

SAC Report

Tomoki Morokuma (SAC chair) on behalf of Subaru SAC
Astronomy Research Center (ARC), Chiba Institute of Technology

Committee Members (2022.9–2024.8)

(*): until August 2024

SAC Member

(*)INAMI, Hanae (Hiroshima U.)
IONO, Daisuke (NAOJ)
(*)ITOH, Yoichi (Hyogo U.)
KAWAKITA, Hideyo (Kyoto–Sangyo U.)
KOMIYAMA, Yutaka (Hosei U.)
MATSUOKA, Yoshiki(Ehime U.) **vice-chair**
(*)MORIYA, Takashi (NAOJ)
MOROKUMA, Tomoki (Chiba Institute of Technology)
OASA, Yumiko (Saitama U.)
OGURI, Masamune (Chiba U.) **chair**
SATO, Bun'ei (Science Tokyo)
SHIMONISHI, Takashi (Niigata U.)
WADA, Takehiko (NAOJ)
UEMURA, Makoto (Hiroshima U.) **Ex-officio (TAC)**

Observers

MIYAZAKI, Satoshi (Director)
HAYANO, Yutaka (Subaru)
KAMBE, Eiji (Subaru)
(*)YAMASHITA, Takuya (TMT)
(*)AOKI, Wako (TMT)
(*)SEKIGUCHI, Kaz (NAOJ)
SANDERS, Dave (UH)

Committee Members (2024.9–2026.8)

(#): from September 2024

SAC Member

(#)INOUE, Akio (Waseda U.)
IONO, Daisuke (NAOJ)
(#)KAWABATA, Koji (Hiroshima U.)
KAWAKITA, Hideyo (Kyoto–Sangyo U.)
KOMIYAMA, Yutaka (Hosei U.)
(#)KUBO, Mariko (Tohoku U.) **vice-chair**
MATSUOKA, Yoshiki(Ehime U.)
MOROKUMA, Tomoki (Chiba Institute of Technology) **chair**
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OGURI, Masamune (Chiba U.)
SATO, Bun'ei (Science Tokyo)
SHIMONISHI, Takashi (Niigata U.)
(#)TADAKI, Ken-ichi (Hokkai–Gakuen U.)
(#)TOMINAGA, Nozomu (NAOJ)
WADA, Takehiko (NAOJ)
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(#)KOYAMA, Yusei (Subaru)
SANDERS, Dave (UH)

Major Discussion Items in Subaru SAC Since Subaru UM FY2023

- PFS (Day 3)
- Prime Focus Instrument Observing Runs (**Day 3**)
- Rubin/LSST PI/JA selection
- Roman-Subaru Synergetic Observations (**Day 1**)
- ToO (Intensive Proposals, **Day 2**)
- Subaru Follow-up for Super-Kamiokande supernovae
- Subaru 3 (**Day 3**)
- Discussion w/ TMT-JSAC (Day 3)
- Code of Conduct
- Observing Night Compensation for Telescope Trouble in 2023
- Removal of AG/SH Unit from NsIR
- Guideline for Lossless Data Compression
- Dates of Subaru UM

Dedicated session & **discussion time**

Prime Focus Spectrograph (PFS)

- PFS Session on Day 3
- **PFS-SSP proposal was fully approved** in September 2024 (as requested).
 - “COSMIC EVOLUTION AND THE DARK SECTOR: A PFS SSP FOR THE SUBARU TELESCOPE” (PI: Hitoshi Murayama)
 - 360 nights as requested
 - Will start from S25A (March, 2025)
 - All the open-use proposals are required to explain any overlap w/ SSP.
- PFS Community Filler program (once in a year) scheme
 - Mutual review was done for the first time (see TAC Report)
 - Proprietary period: 18 months (same as that for normal proposals).
 - International call w/ “10% cap”
- Two SAC members (Oguri & Morokuma) joined the PFS open-use readiness review in July 2024.

Roman-Subaru

- In SAC, led by Y. Matsuoka.
- **100 Subaru nights** will be used for synergetic observations.
 - Agreement between JAXA-NAOJ.
 - Discussion in Roman talk (by Sumi-san) (Day 1)
 - Likely to start from 2027

Rubin/LSST

- Selection procedure for PI/JA was completed.
- Rubin/LSST current status will be introduced by Y. Utsumi on Day 3.

“ToO” proposals

- Subaru SAC suggest that “ToO Intensive” Proposal scheme will be implemented from S25B semester (i.e., next CfP).
 - Dedicated discussion time on Day 2
- “1-hour unit ToO” for HSC queue was approved and will be adopted from S25A.

Prime Focus Instruments: How to Determine “HSC or PFS”

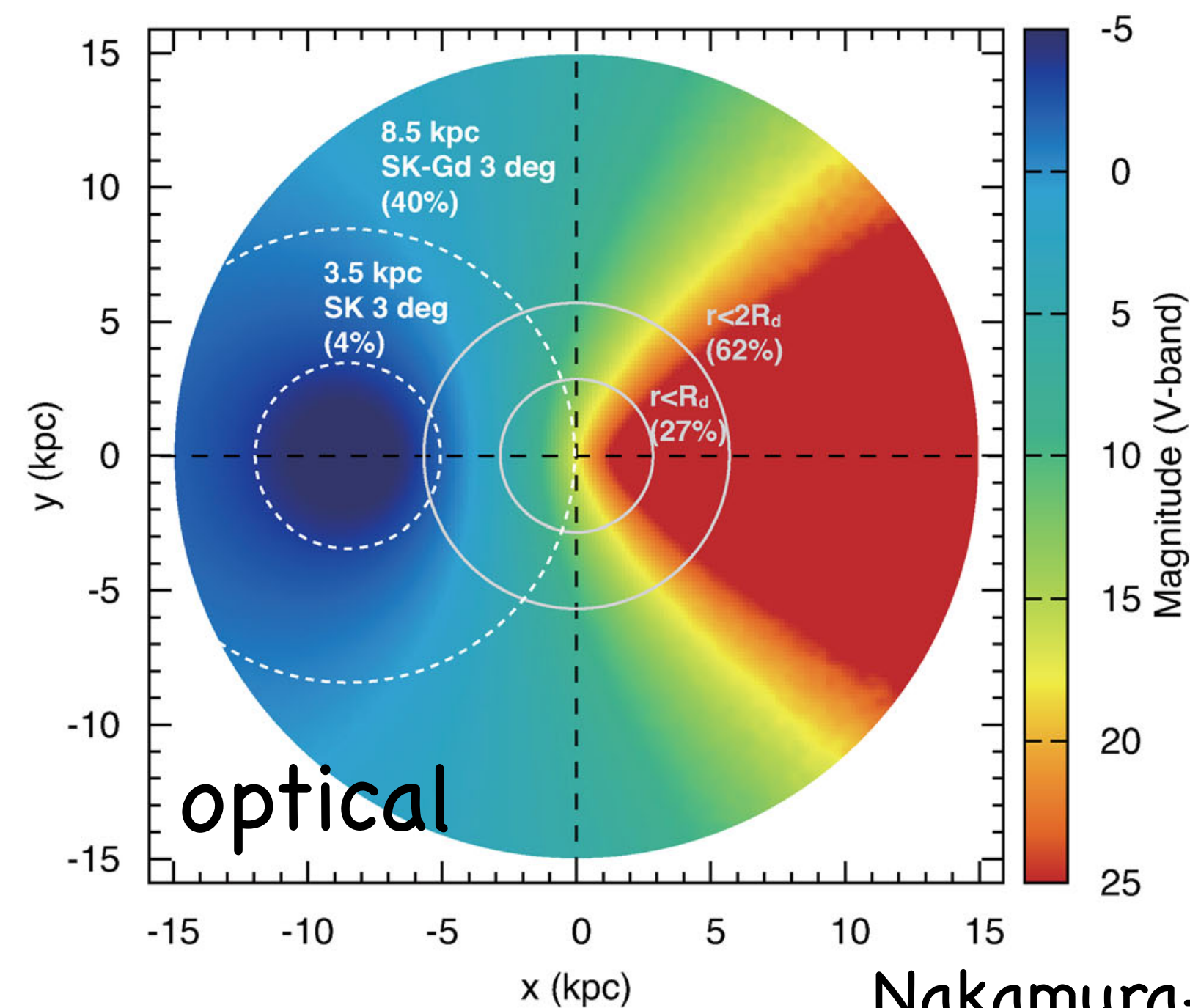
- Discussion led by A. Inoue
- Two prime-focus instruments ~~for the first time~~ for Subaru
 - Related to PFS-SSP time allocation (# of PFS-SSP nights)
- Discussion on Day 3

Discussion w/ TMT-JSAC

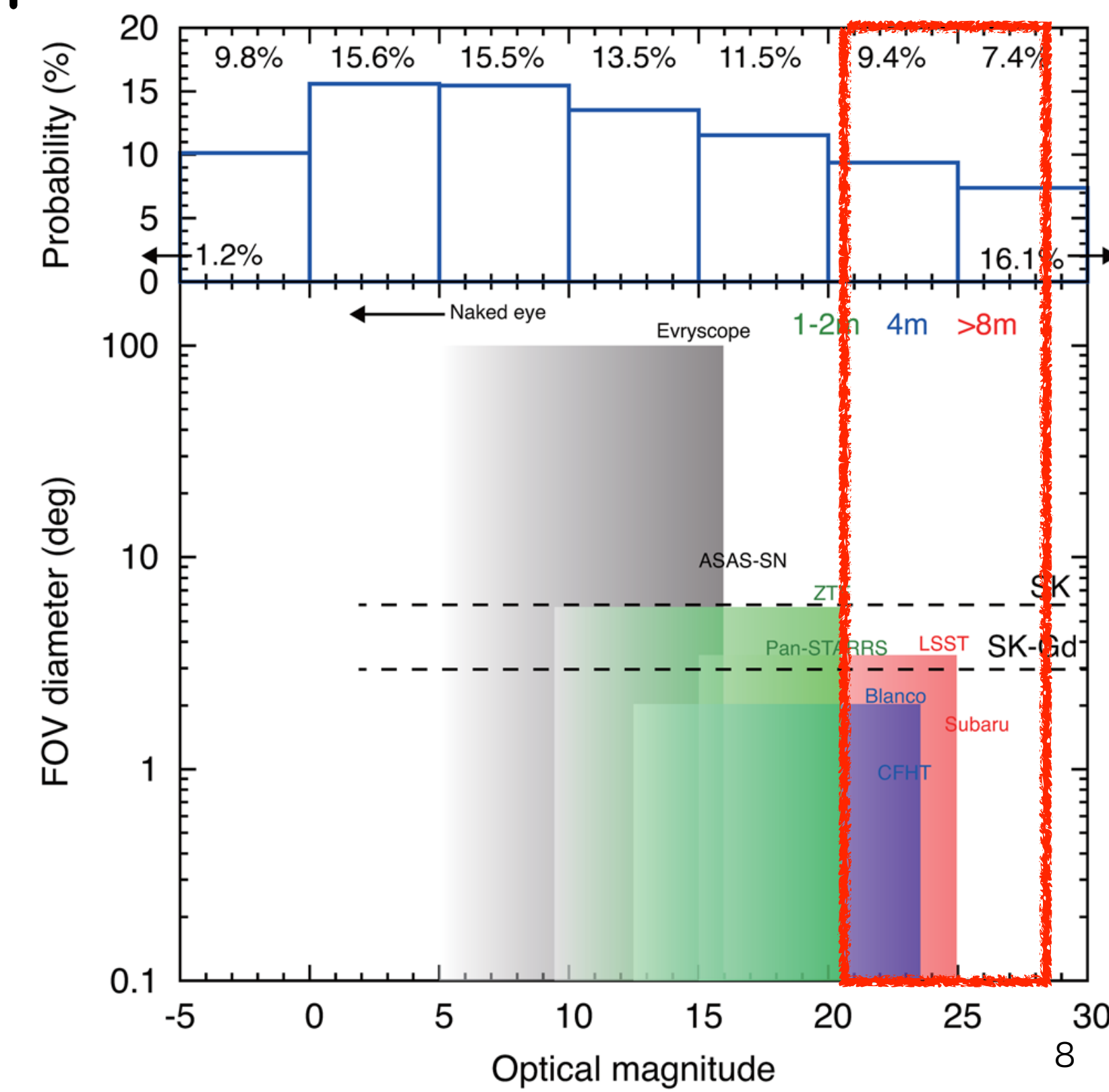
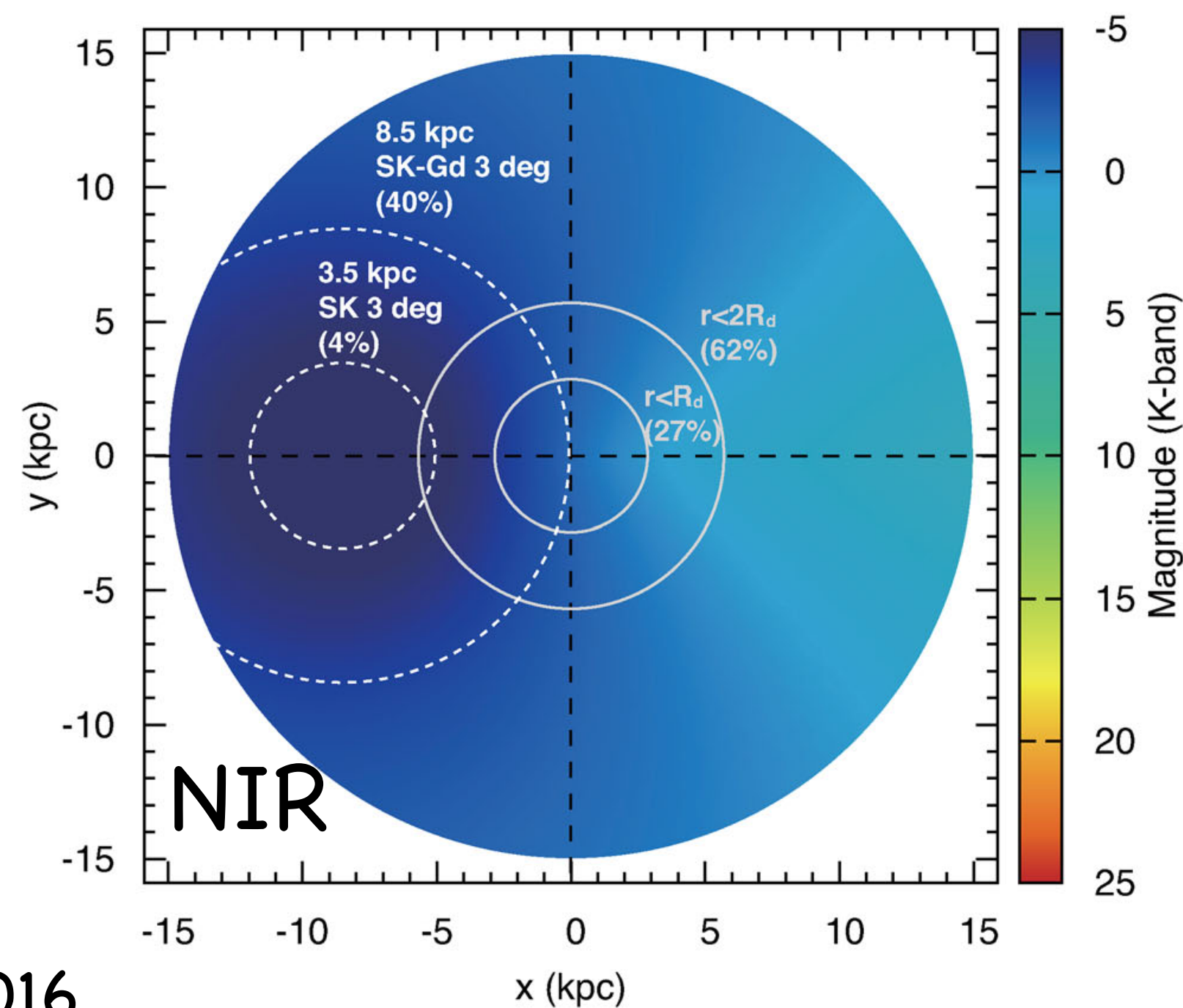
- Included in NAOJ director’s advisory matters to Subaru/TMT SACs. (Nov. 2024)
- Started discussion (July & December 2024) led by D. Iono (NAOJ, Subaru SAC) & S. Nishiyama (Miyagi University of Education, TMT-JSAC)
- TMT Session on Day 3

Subaru Follow-up for Super-Kamiokande-Discovered Supernovae

- Request from SK group for Subaru follow-up of very nearby supernovae (up to LMC/SMC) with neutrino detection with Super-Kamiokande (SK) with Gd.
- Dedicated WG summarized possible observing strategies w/ Subaru.
 - Before** possible counterpart discovery: wide-field survey, img/spec of B/Y/RSGs
 - After** possible counterpart discovery: img/spec monitoring
- Observatory will make a scheme for such quick follow-up observations for **Subaru** historical super-rare super-important events.



Nakamura+2016



- Workshop in August 29 & 30, 2024
- Other observatories (incl. Keck, Gemini) issued 30–40–page books for their future.
- The Observatory & SAC suggest that we write a dedicated document.
 - For astronomers & top-level decision-making personnels

Keck 2035

The W. M. Keck Observatory Strategic Plan

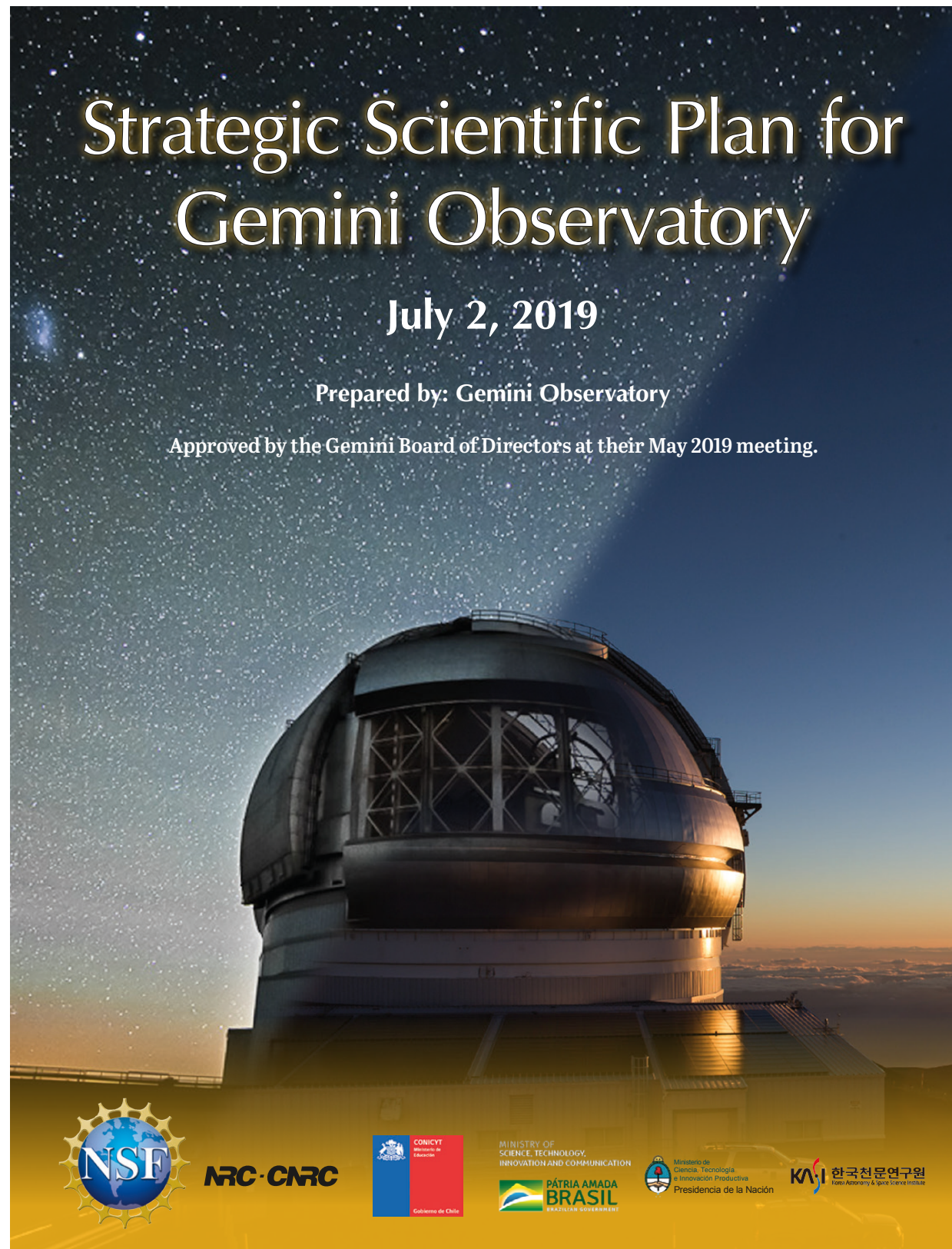


Strategic Scientific Plan for Gemini Observatory

July 2, 2019

Prepared by: Gemini Observatory

Approved by the Gemini Board of Directors at their May 2019 meeting.



Subaru?

Code of Conduct (CoC)

- ❑ **See Subaru UM FY2024 CoC page.** (following NAOJ's CoC)
- ❑ Related activity has started as a task force in ASJ (PI: Dr. Yuko Mochizuki@RIKEN).
- ❑ **SAC encourages any Subaru-related collaborations to define their own CoC.**
 - ❑ HSC-SSP CoC: <https://hsc.mtk.nao.ac.jp/ssp/code-of-conduct/>
 - ❑ NAOJ CoC: <https://www.nao.ac.jp/en/about-naoj/organization/code-of-conduct.html>

Miscellaneous

- ❑ **Observing night compensation for the telescope trouble in 2023** was discussed and all the student-PI & SSP (IRD) programs were compensated (allocated).
 - ❑ Discussed in Subaru UM FY2023.
- ❑ **Removal of AG/SH unit from NsIR** was approved.
- ❑ Policy about **lossless compression of raw data** (incl. past data) was approved and the observatory has started implementing the data compression system.
- ❑ **Subaru UM in a different season?**

Summary

- Discussions on scientific operations of Subaru telescope to maximize its scientific outputs
- See also Subaru SAC minutes (only in Japanese)
 - https://subarutelescope.org/Science/SACM/j_index.html
- Please feel free to talk to SAC members for suggestions, thoughts, or anything relevant to SAC.