Update on Dec. 27, 2017

Telescope time - Dark
Update on Dec. 27, 2017

Telescope time - Bright

- UH-bright
- IRD-SSP
- K-S exchange bright
- IRD-SSP
- Approved intensive bright
- PFS commissioning bright
- G-S exchange bright
- EAO/Aus time bright
- Remaining open-use bright
- Staff time bright
- Downtime bright

Graph showing telescope time usage with different categories and time periods.
Number of Normal Open-Use Nights

Update on Dec. 27, 2017

HSC SSP

PFS SSP

Bright

Dark

remaining open-use dark
remaining open-use bright
Update on Dec. 27, 2017

Fraction of Normal+TE programs

(Normal+TE)/(Total science nights)  (Normal+TE)/(Total science nights-UH)

40%
International partnership negotiations with Australia and Canada
Australia

• Short-term agreement with Astronomy Australia Limited (AAL)
  • Subaru: 10 nights from DDT in S18A and S18B
  • AAL:
    • Cash contribution 450K USD
    • Technical development programs 600K AUD in 2017-2018
      • GLAO design study with ANU
      • NsIR beam switcher design study with AAO
    • 4 AAT nights

• Strategic partnership with ESO: 2017-2027
  • Telescope access to Paranal and La Silla
  • No E-ELT, no ALMA, (no technical collaboration)

• National-level partnership with Subaru will not happen for 10 years.
Australia – Technical Contributions

• AAO team is working on beam-switcher design work

• ANU RSAA AITC AO team is working on conceptual design study of ULTIMATE-Subaru and ULTIMATE-START (Akiyama et al.)
  • Current agreement lasts until summer 2018
  • Both ANU and Japan wish to continue this collaboration. ANU plans to submit Linkage Program of Australian Research Council in 2018. This will enable ~$1M cash contribution from Australia to ULTIMATE-Subaru/START.
Australia – Telescope Access in S18A and S18B

• Subaru Telescope provides 5 nights/semester to researchers in Australian institutes in S18A and S18B.

• Selection is made by Subaru TAC, with Australian representatives as observers

• In S18A:
  • 2 SCExAO+CHARIS proposals, 3 nights
  • 1 HSC proposal, 2 nights
  • Additional successful proposals
    • 1 HDS night, 1 IRCS+AO188 night

• There will be 2 AAT nights for Japanese/Taiwanese researchers in S18B as well.
Canada

• Iwata made tours in universities in Canada to promote awareness of Subaru Telescope’s capabilities in Canada in 2015 and 2016

• Arimoto and Yoshida made presentations in CACSA in 2016 and 2017

• Kodama, Koyama, Iwata visited Waterloo and Toronto in Nov. 2017 to promote scientific collaboration
Canada

• Discussions with National Research Council (NRC)
  • Small-scale collaboration in ULTIMATE-Subaru
• The next Long Range Plan will be published in 2020
• Gemini’s 20% partner until 2021
  • Decision on Gemini partnership from 2022 will be made by November 2018.
• Many possibilities and opinions on future optical/infrared facilities
  • Gemini, MSE (Maunakea Spectroscopic Explorer), LSST, WFIRST
• Discussion in CASCA in May 2018
Why Australia and Canada?

• Our goal is to create broader ‘Subaru community’ to enable:
  • Future collaborative science programs
  • Coherent future strategy
  • To promote strong science cases
  • Joint technical development programs

• Both communities have:
  • Excellent science outputs based on large surveys
  • Synergies and complementarities with Japanese community
  • Strong expertise in instrumentation
  • Canada shares the same future path toward TMT with Japan
  • Good sizes for collaboration, and friendly people!