



SAC REPORT FY2020

Naoki Yasuda (SAC Chair; Kavli IPMU)



Committee Members (previous term)

Term: 1st Sep 2018 - 31st Aug 2020

Doi, Mamoru (Univ. of Tokyo)
Ikoma, Masahiro (Univ. of Tokyo)
Kawabata, Koji (Hiroshima Univ.)
Kodama, Tadayuki (Tohoku Univ.)
Kotani, Takayuki (ABC)
Kurita, Mikito (Kyoto Univ.)
Matsuda, Yuichi (ALMA)
Matsushita, Kyoko (Tokyo U. of Science)
Miyazaki, Satoshi (ATC)
Nagao, Toru (Ehime Univ.)
Nishiyama, Shogo (Miyagi U. of Education)
Tanaka, Masaomi (Tohoku Univ.)
Tosaki, Tomoka (Joetsu U. of Education)
Yamamura, Issei (JAXA)
Yasuda, Naoki (Kavli IPMU)
Motohara, Kentaro (ATC)

Chair

Observers

Yoshida, Michitoshi (Director)
Kambe, Eiji (Subaru)
Takami, Hideki (Subaru)
Yamashita, Takuya (TMT)
Aoki, Wako (TMT)
Sekiguchi, Kaz (NAOJ)
Sanders, David (UH)

Ex-officio (TAC Chair)



Committee Members (current)

Term: 1st Sep 2020 - 31st Aug 2022

Aikawa, Yuri (Univ. of Tokyo) New

Honda, Mitsuhiro (Okayama Univ. of Science) New

Ikoma, Masahiro (Univ. of Tokyo)

Itoh, Yoichi (Univ. of Hyogo) New

Inami, Hanae (Hiroshima Univ.) New

Kodama, Tadayuki (Tohoku Univ.)

Kotani, Takayuki (ABC)

Kurita, Mikito (Kyoto Univ.)

Miyazaki, Satoshi (ATC)

Moriya, Takashi (NAOJ) New

Nishiyama, Shogo (Miyagi U. of Education)

Tosaki, Tomoka (Joetsu U. of Education)

Yasuda, Naoki (Kavli IPMU) Chair

Motohara, Kentaro (ATC) Ex-officio (TAC Chair)

Observers

Yoshida, Michitoshi (Director)

Kambe, Eiji (Subaru)

Takami, Hideki (Subaru)

Yamashita, Takuya (TMT)

Aoki, Wako (TMT)

Sekiguchi, Kaz (NAOJ)

Sanders, David (UH)



Recent major discussion items

- Subaru Strategic Program (SSP)
 - Hyper Suprime-Cam (HSC)
 - Infrared Doppler (IRD)
 - Prime Focus Spectrograph (PFS)
- Compensation of canceled observation due to COVID-19
- SWIMS as an open-use instrument
- Data right of LSST using Subaru night as an in-kind contribution
- Roman-Subaru synergistic observation

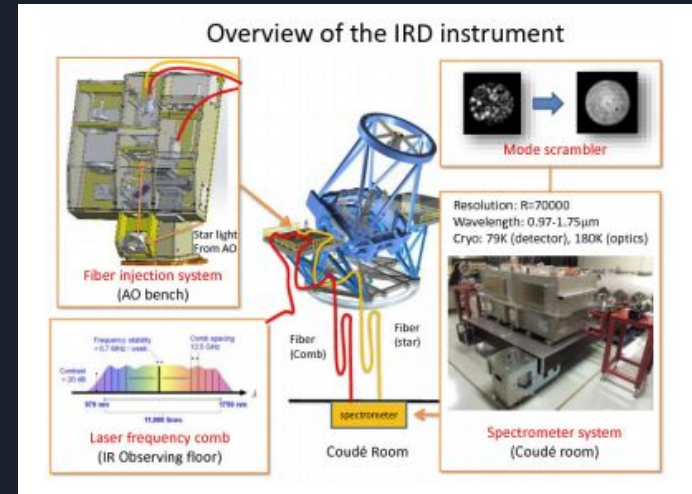


HSC-SSP

- Plan for Public Data Release (PDR) has been approved
 - PDR3 on August 2021 (originally scheduled on May 2021)
 - Delayed due to the Volcano activity and COVID-19
 - Raw data will be released as normal (1.5 year proprietary period) from May 2021
 - Previously the release of raw data is at the same time as PDR
- Confirmed that PDR is a voluntary effort by HSC-SSP team
- Understood the request for S21B time allocation (~17 nights) to complete HSC-SSP
 - Actual allocation will be determined by the observatory considering the balance with open-use

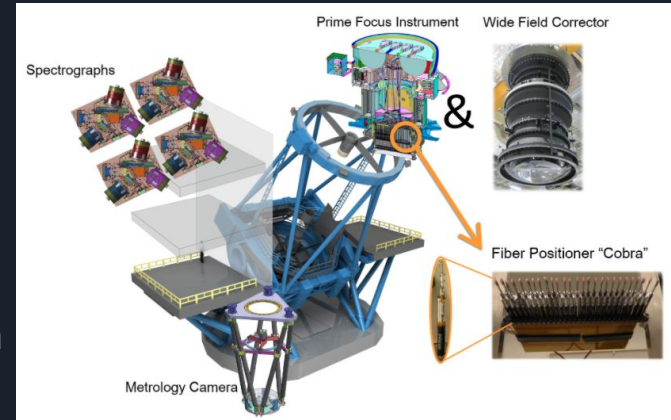
IRD-SSP

- Requested 175 nights has been fully accepted
 - Only 70 nights was accepted initially
 - SAC and TAC has reviewed the scientific significance and the performance of the instrument.
- The software to extract 1D spectrum will be made public
IRD-SSP team will handle the requests for the software to measure RV
- Longer proprietary period (2 years) has been approved



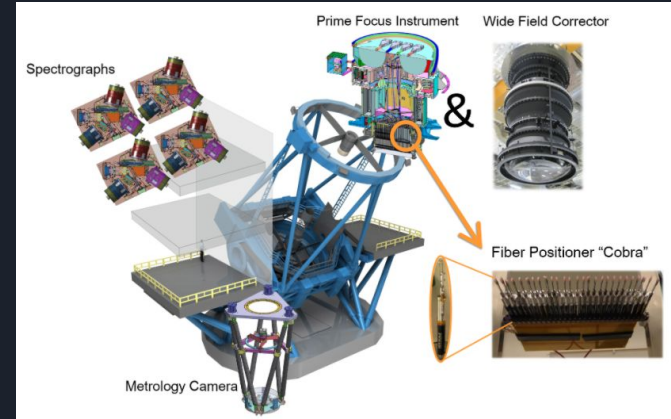
PFS-SSP

- Continued discussion with PFS collaboration
- Accepted the following policies
 - Accept a proposal up to 360 nights over 6 years
 - This policy will apply for all future SSP
 - Accelerated operation to complete within 5 years
 - Try to keep at least 15 dark nights per semester for open-use
 - Proposal review schedule
 - April 2022 : Call for SSP
 - June 2022: Deadline
 - October 2022: Acceptance of SSP, S23A TAC
 - February 2023: Start of PFS-SSP



PFS-SSP (cont'd)

- Accepted the following policies (cont'd)
 - Re-optimization of observing strategy
 - Describe the strategies for both designed and better performance cases
- Still under discussion
 - Duplication and block of targets
 - PFS collaboration is encouraging all interested persons to join
 - SAC needs to reserve some flexibility for various science cases
 - Fiber share with open-use program
 - The programs which request a small # of fibers can be executed
 - PFS collaboration needs optimized scheduling to maximize observing efficiency



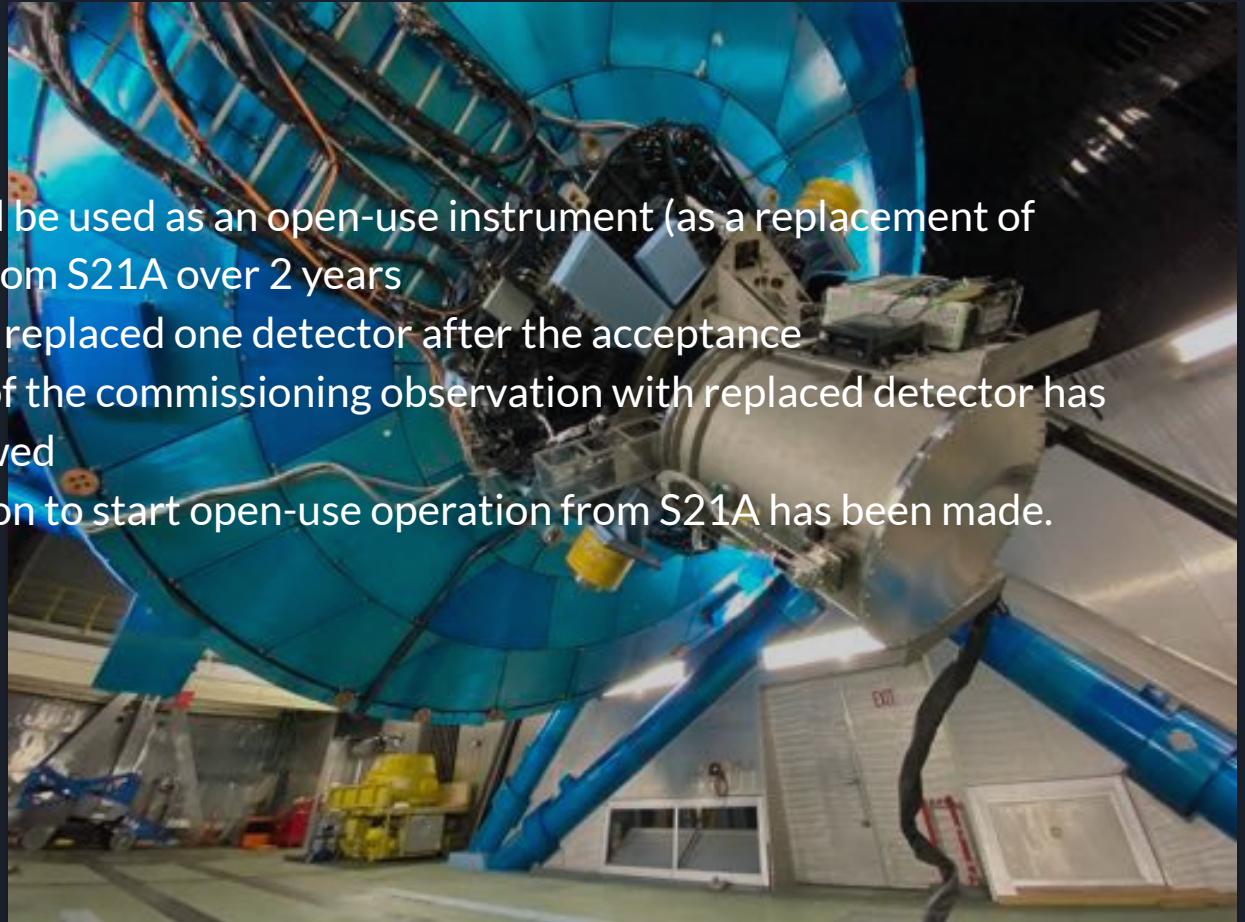
COVID-19

- The observation of 55 nights (from March 24th to May 17th) has been cancelled due to COVID-19
- Compensation has been approved for
 - HSC-SSP, IRD-SSP (13.5 nights)
 - Intensive program (4 program, 9 nights)
 - PhD thesis related observation (1 program, 1 nights)



SWIMS

- SWIMS will be used as an open-use instrument (as a replacement of MOIRCS) from S21A over 2 years
- SWIMS has replaced one detector after the acceptance
- The result of the commissioning observation with replaced detector has been reviewed
- Final decision to start open-use operation from S21A has been made.





LSST (Rubin Observatory)

- NAOJ and Kavli IPMU has jointly submitted in-kind contribution proposal for LSST data right
- One major component is 50 Subaru nights over 10 years
- Certain number (~30) of PI (data right holder) are expected
- Subaru nights will be served to US community in a similar way with time-exchange program for Keck/Gemini
- Fair selection process of PI has been discussed
- More discussion in this UM

Day2 | 4 Mar 2021 (Thu)

14:15 - 15:15

Discussion Session 1 (in Japanese)

14:15 - 15:15 [d02] LSST and Euclid





Roman-Subaru Synergistic Observation

- Subaru community has agreed to use 100 Subaru nights for synergistic observation for Roman Space Telescope (previously WFIRST)
- Originally scheduled after the completion of PFS-SSP
- Steering committee starts to think of front loading due to the delay of the start (and completion) of PFS-SSP
- SAC has just started the discussion of possibility of front loading and evaluation framework of their observing proposal
- More discussion in this UM

Day3 | 5 Mar 2021 (Fri)

10:30 - 11:10 [d06] Subaru and Roman Space Telescope



Summary

- We are discussing Subaru telescope's scientific operations to maximize scientific outputs of Subaru telescope.
- Discussion items include
 - framework for night allocation from general open-use program to large SSP program
 - collaboration / synergy with other facilities
 - international partnership
- All discussion details are made public as minutes (only in Japanese) at https://subarutelescope.org/Science/SACM/j_index.html
- Please feel free to contact any committee members if you need the discussion at SAC