Call for Proposals

Semester S19A: February 1, 2019 -- July 31, 2019

Subaru Telescope, National Astronomical Observatory of Japan

Subaru Telescope invites observing proposals for Semester S19A. Since each instrument has its own specific restrictions/conditions, applicants are required to consult the relevant instrument page when preparing their proposals. Please also refer to How to Submit via webform, Open Use Policy and Telescope webpage.

Open Use Schedule for S19A

Deadline of Normal/Intensive Program Submission	**September 13 (Thu), 2018 12:00 (Noon) in Japan Standard Time** (i.e., September 13, 3:00 am in UT)
Deadline of Service/Filler Program Submission	**October 11 (Thu), 2018 12:00 (Noon) in Japan Standard Time** (i.e., October 11, 3:00 am in UT)
Time Allocation Committee	late October
Notification of selection results	early December

Webform

Webform	the ProMS 2.0 page	**Instructions**	How to Submit via webform?

Other instructions

Instructions	Open Use Policy, and each instrument page

Important Notice for S19A

Telescope Maintenance and Status	Replacement of electric boards (CPU cards) for the Primary Mirror Actuators and upgrade of Top Unit Codes for PFS are expected in S19A. All observations will be done without the windscreen. The Top Unit may not be exchanged due to many big earthquakes. See "Telescope-Related Topics" for more details.

Opening of FOCAS IFU mode	In S19A, FOCAS Integral Field Unit (IFU) will be available for open-use in the latter half of the semester in a shared-risk mode. Please check the instrument web page for more details and updates.
Status of Visiting Instrument (PI Instrument)	In S19A, IRD (InfraRed Doppler) will be available for open use both in NGS and LGS modes, but still in a shared-risk mode. CHARIS (with SCExAO+AO188) as well as VAMPIRES module in SCExAO are offered for open use observations. Visiting instruments may be used in intensive programs if necessary conditions are fulfilled, thouch only IRD is relevant in S19A.
Possibility of IRD SSP	There is a possibility of starting IRD SSP from S19A. In case it has been officially approved, any proposal using IRD should clarify how its scientific aim is different from that of SSP, because doing similar science with the same targets as aimed in SSP is not allowed.
Operation of HSC	There will be at most 5 observing runs of HSC in S19A allocated to dark or dark-gray nights in February through June. See also "Notice for HSC Applicants"
New Policy of Travel Suppot	Due to the severely tight budget, NAOJ's support of travel expense to Hawaii is limited to only one Japanese observer for each observing run, though up to three Japanese researchers may still be supported including remote observers from Japan/Mitaka.

Telescope-Related Topics

Replacement of Electric Boards for Primary Mirror Actuator	Some of the electric boards (CPU cards) for the primary mirror actuators should be replaced and tested in S19A for the sake of long-term stable operation and future replacement of the whole system. We expect downtime of about three nights for this work.
Top Unit Codes upgrade for PFS	PFS mode will be added to Top Unit Codes (which is an ability to identify with each top units to set telescope control configuration).
Observation w/o the Windscreen throughout S19A&B	Due to the incident on April 10, 2017, the windscreen of the Subaru telescope is out of operation in S19A&B, and thus tracking accuracy of the telescope may be degraded at high winds. Since observations may be interrupted at high winds, it is recommended to prepare backup targets with different azimuth angles.
Difficulty of Top Unit Exchange	As earthquakes are frequently ocurring every day due to the continuing collapse of Halema'uma'u crater since May 2018, it is difficult to conduct Top Unit Exchange

	work for the sake of equipment and worker's safety. We will keep observing volcanic activity and discuss at least once a month for resuming TUE as soon as possible.

Notice for HSC Applicants

Use of HSC	In S19A, Hyper Suprime-Cam (HSC) will be offered in a shared-risk mode. HSC proposers requesting to observe the same fields as targeted in the HSC SSP (Subaru Strategic Program) are obliged to clarify the reason for doing so (e.g., how the scientific aim is different from that of SSP). Service observations are not available.
Queue Mode Observation of HSC	The queue mode is the primary mode of HSC observation. Please read the queue mode webpage.
Filler Program	Filler program are executed only under poor conditions where usual observations are hard to be conducted. From S19A, up to 35 hours can be requested by a filler proposal. Please refer to the filler page.
Classical Mode Observation of HSC	Proposers wishing to use the classical observation mode of HSC have to describe why the classical mode is preferred to the queue mode in Entry 13.(Scheduling Requirements). Unless any convincing reason, proposers may be asked if it is possible to change the observation mode from classical to queue.
"No-Additional-Target" Policy for HSC	Requesting additional targets is not allowed for any HSC observations during the semester. The dead time ("Sukima" time), when there is no planned target on the night sky, will be exploited as effectively as possible depending on the situation (observing priority: 1. observations of standard stars, 2. queue-mode observations for Grade A/B, 3. observing user's back-up targets, and 4. queue-mode observations for Grade C and F).
Set of HSC Filters	HSC users must explicitly describe the filters they intend to use in Entry 16 (Instrument Requirements), where the desired set as well as the minimum acceptable set should be clearly specified.
Filter Exchange during HSC Observing Run	We plan to start operation of FEU-OPT filter exchange from S18B in a shared-risk mode, which is to change filters in the optical-side FEU stacker in daytime while HSC observing run is ongoing. Please see the instrument web page for details.

Notice About Nasmyth/Cassegrain Instruments

Notice for HDS Applicants	HDS is often combined with the Subaru infrared secondary mirror (with which throughput at <3800Å is considerably deteriorated), in order to accommodate as many HDS programs as possible. So, if blue or UV regions are crucially needed for your observation, it should be explicitly described in Entry 16 (Instrument Requirements).
IRCS Observations	IRCS observations will be conducted always in combination with AO188 optics, regardless of the use of AO correction. Polarimetry mode of IRCS+AO188 has been partially opened for open use in a shared-risk mode. The available modes are *Y*-, *J*-, *H*-, *K*-, and *L*-band imaging polarimetry and z*JH*, *HK*, and *L*-band spectropolarimetry modes. Please see the "Polarimetry" section of IRCS page for more detailed information. Grism and Echelle spectroscopy modes (along with imaging) of IRCS+AO188 are available in service programs. Targets of any spectroscopic modes for service programs must have suitable NGS, or TTGS. Please see the Service program page for more detailed information.
Dark Nights Essentially Due to HSC	Since almost all dark nights will be allocated to Hyper Suprime-Cam, using dark nights with other instruments would be hardly possible.

Notice About Time-Exchange Programs

Time Exchange Programs with Gemini and Keck	According to the inter-observatory time-exchange agreement, we accept proposals of observations with Gemini (North & South) and Keck telescopes, which will be screened by Subaru TAC within the framework of Subaru Call for Proposals. Maximum several nights (for each of Keck I and Keck II) and minimum 5 nights (Gemini) are available in S19A for this purpose. Those who have direct access to Gemini or Keck time must refrain from applying for Gemini/Keck observing time by this program. Please refer to Subaru/Gemini Time Exchange page and Subaru/Keck Time Exchange page for more details.
Application from Gemini/Keck Community	Non-Japanese PIs who wish to use the Subaru Telescope and have access to Gemini or Keck telescope time must apply through the time-exchange program provided by Gemini or Keck. Regarding institutes which entered an MoU with Subaru/NAOJ, however, the agreement in the MoU will be exceptionally applied.

Gemini LLP and Subaru IP unavailable	In S19A, the application for Subaru Intensive Program and Gemini Large and Long Programs are not available through Subaru-Gemini telescope exchange time. These programs can be applied only in semester B (i.e. once a year).
Gemini Fast Turnaround Program	Subaru Community can apply for Gemini Fast Turnaround Programs, in which up to 5 nights per semester are available for researchers belonging to Subaru Community. Their submission deadlines are irrelevant for those of the ordinary Call for Proposals.

Required Clarification in Proposals

Necessity of MOIRCS Preimaging	MOIRCS/MOS users who need to take the pre-images with MOIRCS should explicitly request it in the "Technical Justification" part. Please check the instrument web page for more details.
Necessity of FOCAS Preimaging	FOCAS/MOS users are required to describe explicitly about the pre-imaging observation with FOCAS in Entry 16 (Instrument Requirements) when it is necessary for their MOS mask design. Please check the instrument web page for details.
Number of MOIRCS/MOS Masks	MOIRCS/MOS users must explicitly describe the required number of masks in Entry 16, where the desired number as well as the minimum acceptable number should be clearly specified.
Moon-affected Unacceptable Dates	When one particular source or several sources whose coordinates are concentrated to a particular sky region are planned to be observed on bright or grey nights, observations may be severely affected by the Moon in some particular nights. In such cases, those inconvenient or unacceptable dates should be explicitly indicated in Entry 13 (Scheduling Requirements).
Service Program Similar to Normal Program	Service Program applicants are required to clarify whether they have submitted similar Normal/Intensive Program proposals for this semester.
Target Check in Subaru Archive Data	Applicants are required to check their targets in SMOKA database (Public Data Archive) before submission. If the objects have already been observed by Subaru in the past, the reason why they need to be observed again must be described.

Reminder About Basic Rules

Revised Science Categories	The science categories to be selected by applicants for each proposal have been partly reorganized and renamed since S18B. See here for more details.
Intensive Program	The size of Intensive Program has been expanded up to 40 nights over maximum 6 consecutive semesters (with maximum 20 nights in a semester). We accept Intensive Program using HSC queue mode.
Proposals for Unspecified Targets	Proposals in which targets are not specified at the time of proposal submission may be submitted to Normal Program, but not to Service Program.
2nd Choice Instruments	If your science goal could (fully or partly) be achieved by other instruments (of Subaru/Keck/Gemini) instead of your 1st choice instrument, we recommend you to describe such alternative instruments, which may be usable/acceptable to attain your science goal, as 2nd choice instrument(s).
Description of Acceptable Observing Date Range	Even though your preferred observing dates are rather limited, you should make your acceptable date range as wide as possible. Your proposal would be automatically rejected, in case that we cannot find an observing slot for your program in your acceptable range (even if your proposal is above the borderline of acceptance).
"Technical Justification" Entry in Service Proposal form	From S17A, a new entry (Technical Justification) has been arranged in the application form of the service program, in which technical details (such as integration time and so on) should be explained.
Abstracts of Accepted Proposals Will Be Opened	The complete texts of the abstracts of all the accepted Subaru proposals will be open to the public at the same time of the data release (i.e., when the proprietary period of 18 months has expired).
Unexpected Cancellation	In principle, cancelled observation time due to unexpected telescope/instrumentation failure will not be compensated.
Using Visiting Instruments	Any proposal using visiting instruments must include the relevant instrument PI as a Co-investigator.
Duplicated Submission Unallowable	An identical proposal of the same science and targets using the same instrument and telescope should not be submitted twice at the same time through different TAC processes. For example, if a proposal using Keck or Gemini was once submitted to Subaru time-exchange program, it should not be applied to the ordinary proposal selection on Keck or Gemini side at the same semester. (And vice versa.)
One Proposal for One Project	Even if you intend to carry out observations by using different Subaru instruments (or even by using different telescopes, such as Subaru+Keck or Subaru+Gemini) for the same scientific project(s), you must describe them only in

	"one" proposal, because separate submission of two or more proposals belonging to the same project brings about considerable confusion. You can specify several different instruments in Entry 12 (Observing Run) and describe your detailed observing plan of how to use them in Entry 16 (Instrument Requirements) or Entry 15 (Observing Method and Technical Details). Especially, if you want to use two telescopes (Subaru+Gemini or Subaru+Keck) for the same project(s), please summarize your plan in one proposal and select the relevant option in the webform.
Time Allocation Basically One-night Unit	Telescope time allocation (except for queue observations) is basically made in unit of one night, though half night allocation may be exceptionally possible, if a suitable program can be found for the other half night.
Remote Observation	Remote observations from Mitaka Headquarter (remote-M) are allowed for all instruments under the approval of relevant support astronomer. Meanwhile, remote observations conducted from Hilo Base Facility (remote-H) may be allowed for IRCS (NGS mode only), HDS, HSC, and MOIRCS (for experienced observers). Those who wish to perform the observations remotely should check the box in Entry 13 (Scheduling Requirements), though such a request may not necessarily be granted, depending on the instrument status and/or scheduling limitations.