

SWIMS on Subaru as PI-type instrument

**Please check the official Call for Proposals carefully !
正式な Call for Proposals を必ずご確認ください !**

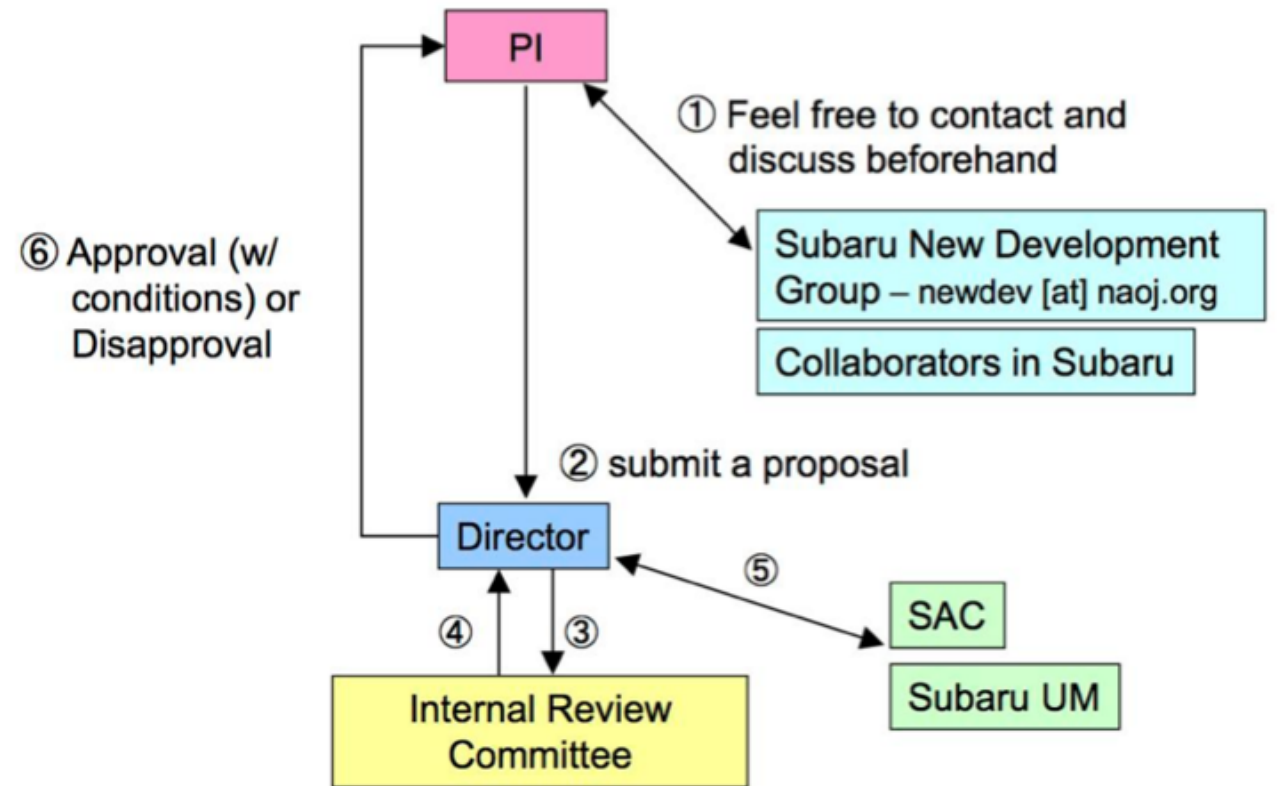
Yusei Koyama (Subaru Telescope/GLAO project)

Hirofumi Okita (Subaru Telescope)

What is “PI-type” instrument?

(Why are we accepting “PI-type” instruments?)

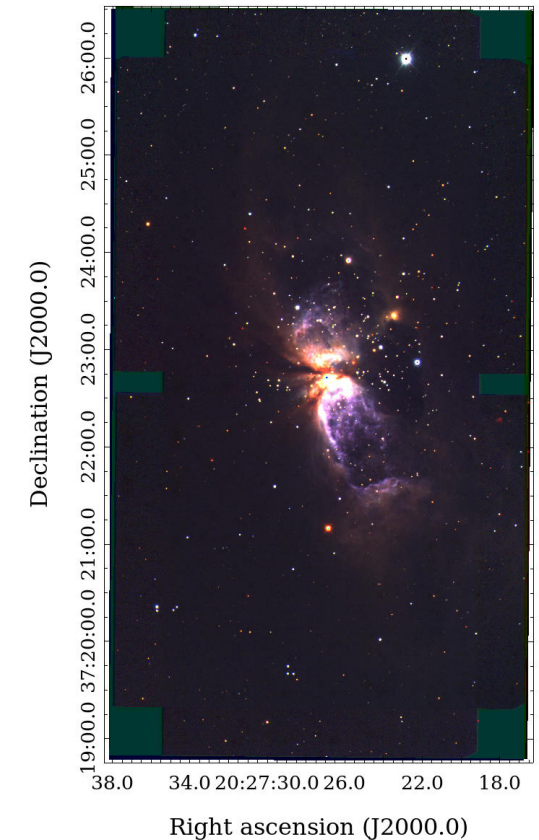
- PI-type inst. = carry-in instrument (持込み装置)
- To provide unique scientific capabilities which complement the facility instruments.
 - PI-instrument can be a single-purpose instrument for PI’s own science goal.
- To promote future instrumentation by using Subaru as test bed for the new technology.
- To encourage small-scale development groups in universities (and their education) with relatively short time scale for development + science.
- On the other hand, the instrument team is responsible for operation of their instrument, with minimum support from the observatory.



Procedure to propose PI-type instrument to Subaru

Acceptance history...

- 2014.09: SWIMS carry-in proposal was submitted to Subaru
- 2015.08: Acceptance review
- 2016.10: Acceptance delta review
- 2017.01: Official approval by Director (engineering only)
- 2017.02: Pre-ship review
- 2017.08: SWIMS arrived at Hilo
- 2018.04: Summit pre-ship review
- 2018.05: First light of SWIMS
- 2019.09: Proposal for open-use was submitted
- 2019.10: Approval for open-use
- 2020.07: SAC accepted SWIMS open-use from S2IA



Subaru S2IA semester

- S2IA = February 2021 – July 2021 (6-months)
- Call for proposals: will be issued in early August
- Available instruments:
 - Facility instruments: FOCAS, HSC, HDS, IRC(+AOI88)
 - PI-type instruments: CHARIS, IRD, REACH, **SWIMS**, VAMPIRES
 - Time exchange: all Keck/Gemini(N+S) instruments available for 2021A
 - Note 1: **SWIMS will be available from S2IA to S22B (4 semesters)**
 - Note 2: **MOIRCS will be hibernated during these semesters (but see next page)**
- Proposal category:
 - Normal program = 5 nights at maximum
 - Intensive program = 40 nights at maximum over 3 years (6 semesters)
 - Service program = 4 hours at maximum, carried out by the observatory
 - Note 3: **SWIMS will accept only Normal programs for S2IA – i.e. no service/intensive programs**
- Proposal deadline: early September (normal + intensive), early October (service)
- Time Allocation Committee: late October
- PI notification of review results: early December

SWIMS potential risk (and MOIRCS as backup)

- There still remains a risk of canceling SWIMS operation in S2IA – this depends on COVID-19 situation. **Final decision on the SWIMS availability in S2IA will be made in Oct. 2020 after SWIMS engineering observation scheduled in early Oct.**
- **For SWIMS proposal in S2IA, you can write MOIRCS as a backup (2nd-choice) instrument if you can achieve (a part of) your science goals with MOIRCS.**
 - MOIRCS will not be listed as an available instrument in S2IA CfP, but you can write “MOIRCS” in the “2nd-choice instrument” box in the proposal, and give technical details in the Technical Justification box.
 - We will consider MOIRCS operation in case SWIMS becomes unavailable in S2IA. Of course you can also choose other Subaru instruments (e.g. IRCS) or Keck/Gemini instruments as your 2nd choice if your science goals can be achieved with those instruments.
- You can submit “SWIMS only” proposals (without 2nd-choice inst.) but in this case proposal will be automatically rejected when SWIMS turns out to be unavailable in S2IA. On the other hand, we do not accept “MOIRCS only” proposals for S2IA.

Note for SWIMS proposal preparation

- Please visit the following URL prepared by SWIMS team for instrument specifications
 - http://www.ioa.s.u-tokyo.ac.jp/TAO/swims/index.php?Summary_for_Subaru_S2IA_CfP
- Need to contact the PI of the instrument (Motohara-san) well in advance, so that the SWIMS team check any scientific conflicts, as well as technical feasibility.
- Instrument PI (Motohara-san) and other relevant people from SWIMS team should be included in the proposal as co-I(s). This is a general rule for all PI-type instrument proposals.
- Please note that scientists in UH/Keck/Gemini community can also propose SWIMS observations (through their own TAC) – but they also need to contact the instrument PI in advance.
- You can submit a proposal to use more than one instruments (e.g. HSC+SWIMS, FOCAS+SWIMS, or perhaps GMOS+SWIMS...), but you need to contact SWIMS team in any case if you want to propose SWIMS observations.
- You can also submit ToO proposal, but again, need to consult with SWIMS team in advance.

Summary: SWIMS on Subaru in S2IA

- Please read S2IA Call for Proposals carefully!
- SWIMS will be open with shared risk in S2IA
- Availability of SWIMS will be determined in Oct 2020
- Need to contact SWIMS team in advance
 - This is a general rule of Subaru PI-type instrument proposals
- You can submit ToO proposal with SWIMS
- No SWIMS intensive/service program for S2IA
- MOIRCS will be hibernated during SWIMS operation
- But you can request MOIRCS as 2nd-choice instrument