

PFS Data Access

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Background

- PFS 2d data processing pipeline is being developed by the PFS collaboration. The Princeton University has led the pipeline development with contributions from NAOJ and few more institutes. The pipeline is still premature and needs a lot of work.
- The pipeline work is closely tied to data acquisition; when we take a new data set, we often discover new problems. We will continue to discover new problems in the coming years as open-use programs target a wide variety of objects (and some PIs may operate the instrument in a non-standard way). The pipeline will not be able to process some of these open-use data. However, it is crucial to have a highly efficient and robust pipeline for PFS because we will operate PFS as a major facility instrument for >10 years. Without such a pipeline, PFS will not yield high-impact scientific results.
- In order for the pipeline development team to build such a pipeline, it is crucial for them to access PFS open-use data. It is extremely difficult for them to fix a problem without reproducing the problem with real data. However, many of the pipeline members do not have access, making it difficult to improve the pipeline for open-use programs.



Proposal

- We, the pipeline team, propose to have access to PFS open-use data on the condition that
 - a) We use the open-use data only for the pipeline development purposes. We never do science with the data.
 - b) Only members who agree with the above term are allowed to access the data.
- The pipeline team as of today is as follows:
 - › Princeton University (~5 people)
 - › Subaru Telescope (~5 people)
 - › IPMU (1 person)
 - › ASIAA (1 person)



Proposal contd.

- Most of the members are expected to work on the pipeline on a long-term, but other members may come and go. We make and maintain a list of members at the observatory. Tanaka is going to manage such a list together with other observatory staff.
- If a member leaves the team, then we will disable the access for that member. If we welcome a new member, we allow access.
- We propose this data access during the period of PFS-SSP. If it turns out that longer-term access is important and useful for the community, we will get back to you and propose for an extension.
- Questions, comments, thoughts?

PFS data from PFS SP

- On a separate subject, we plan to deliver pipeline-processed data to the PIs via PFS Science Platform (PFS SP). The current plan is to deliver data for each observing run and for each semester. Multi-semester processing is TBD.
- We consider a release for each run is a preview release, meaning that we do not necessarily guarantee the scientific quality (we will deliver QA plots, of course).
- Also, we may not keep the data forever. In case of very serious disk shortage, we may delete some of the per-run files. We hope it does not happen, though!
- Let us know if you have comments/concerns.