

# Data Handling and Post Observation in Queue Mode

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## **Disclaimer:**

This section includes several topics that are still under discussion internally at Subaru.

*Some of the details are unspecified or may change between now and S16A.*

# Post Queue Observation

- How can I keep track of my observation?
- How do I know which calibration data is appropriate?
- How do I know what the night conditions were?
- How will I get data?
- Who do I contact if I have questions about my observation?

# How can I keep track of my observation?

- There is no PI notification until Final Quality Assessment (FQA) approves the completion of Observation Blocks
  - The time frame for observer notification is TBD, but likely will be a short time after the end of an HSC run
- After approval of completed OBs, you will receive a notification email that summarizes what has been observed so far

# Notification Emails

- Each notification email will tell you:
  - Which Observation Blocks were executed
  - What the environmental conditions were for each block
  - Which exposures are associated with each block
  - What calibration data is available for each block
  - What environment data is available for the night (logs, plots, tables)
  - A summary of the progress of your program



# Notification (cont.)

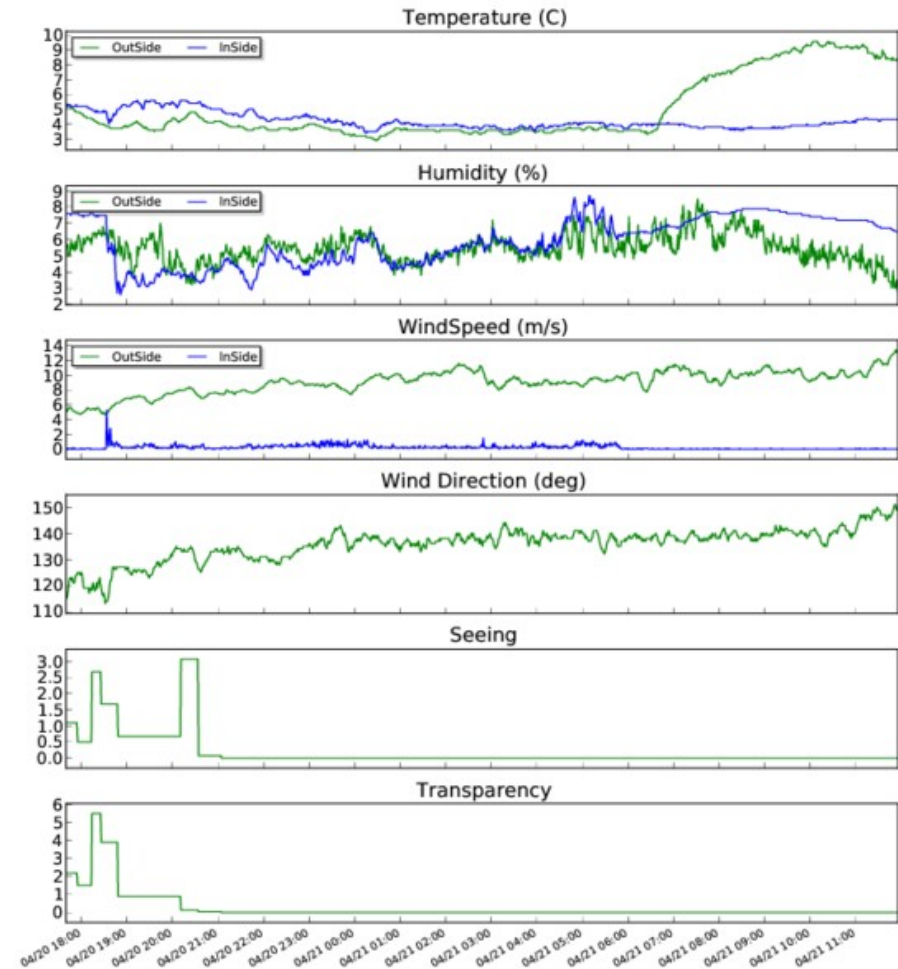
- You may receive several such emails over the life of the program
- At the end of the semester, you will receive a summary email that indicates whether any blocks have been carried over to subsequent semesters (*only grade A programs*) and notes about program completion

# How do I know which calibration data is appropriate?

- The notification email will indicate which calibration data goes with your completed OBs
- When you receive your data it will include the appropriate calibration data
- There is discussion underway about linking the calibration data to science frames via FITS header keywords [TBD]

# How do I know what the night conditions were?

- The notification email will indicate the logs and files that contain the environment data for the night.
- The environment data contains both summary charts and timestamped text logs





# How will I get my data?

- [NOTE: exact details still TBD]
- A python script will be mailed to you at the beginning of the semester with instructions on its use
- Running the script will update some metadata of download information (URLs, etc.) and optionally download any new data available for your program from MASTARS or STARS locations
- To receive the new data, you should run the script whenever you receive your email notifications

# What is included in the data?

- The data will include:
  - Environmental logs
  - OB execution summary logs
  - Appropriate calibration data
  - Science frames corresponding to your OBs
    - Note that if an OB is executed more than once (e.g. because it did not meet FQA) you will receive *all* of the frames taken—even for the OBs executed under deteriorated conditions

# Who do I contact if I have questions about my observation?

- Please contact [queue@naoj.org](mailto:queue@naoj.org) if you have questions about your observation.

Questions?