

CAMK Annual Meeting 2025

Automated Data Processing at the Cerro Murphy Observatory

Mirosław Kicia - CAMK Warsaw



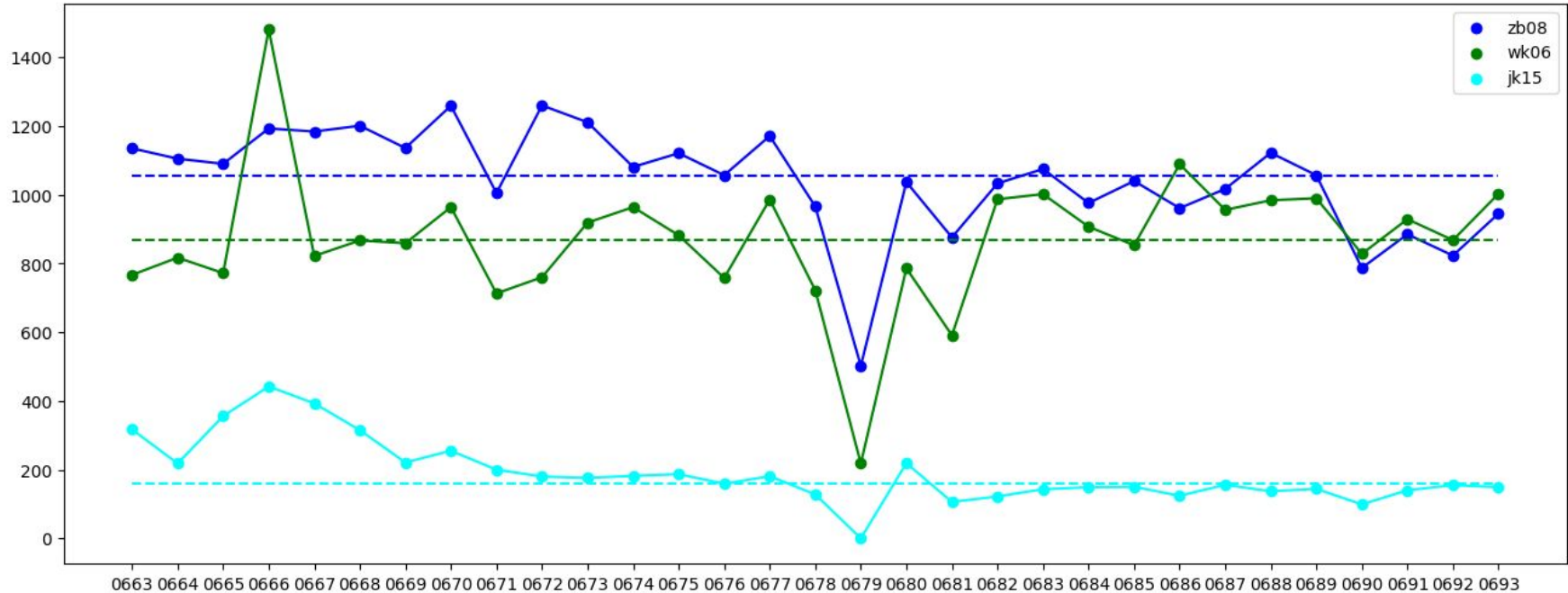
Control software - end of the preliminary stage

- We have entered into stable development of control software at the Observatory Cerro Murphy (OCM).
- Three telescopes - **zb08**, **wk06** and **jk15** - have been launched and are now collecting a significant amount of scientific data.
- Downtime is very low, there are occasional interruptions in the operation of individual telescopes, but do not exceed 1% of operational time (excluding interruptions due to weather conditions).

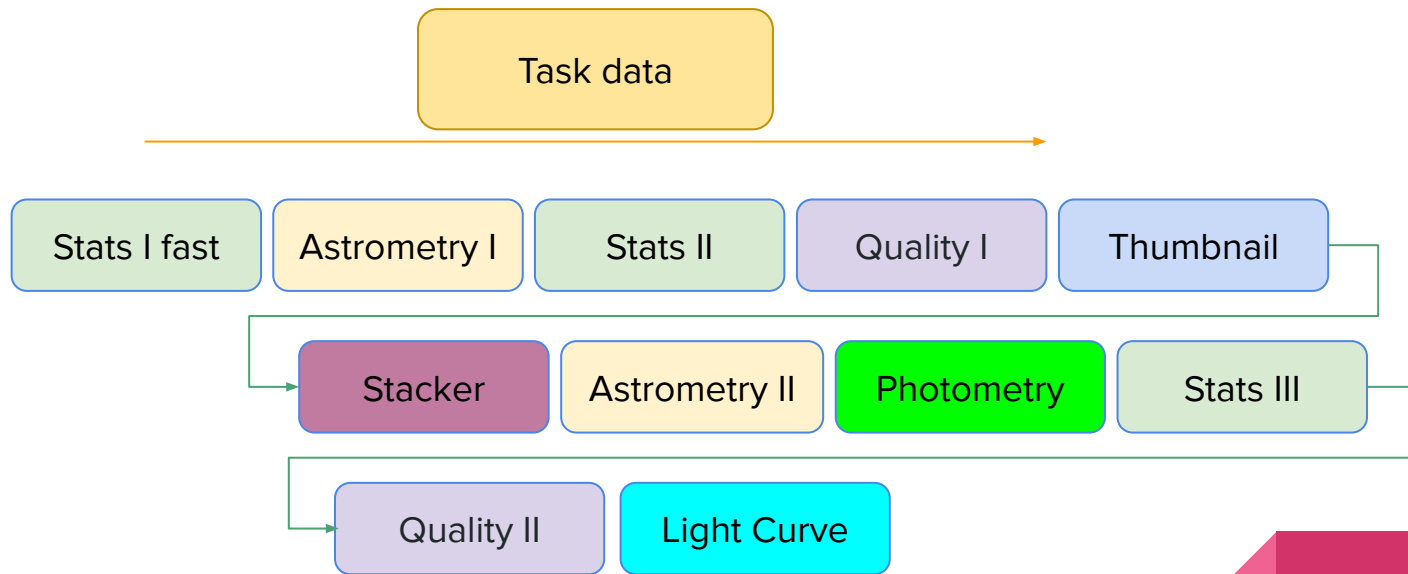


Data amount - last month


Last month files no. 65258 (32311+ 27044 + 5903). No weather shutdown.



The Oca Fits Processor (OFP) - data processing software



Achievements

1. **Main task:** The development and remote supervision of the OCM control and data processing software, along with biannual on-site visits for the same purposes.
 2. **Published a research article as the first author:** *“A machine learning method for predicting telescope cycle time applied to the Cerro Murphy Observatory”*.
M. Kicia, M. Kałuszyński, M. Górski, R. Chini, G. Pietrzyński
 3. **Conference participation:** Araucaria Meeting Paris 2024 oral presentation.
 4. **Poster:** “HRS monitoring of symbiotic stars with yellow giants and active systems during outbursts.”, Praga 2024
 5. Currently also engaged in preparing my PhD thesis.
- 

Thank You

