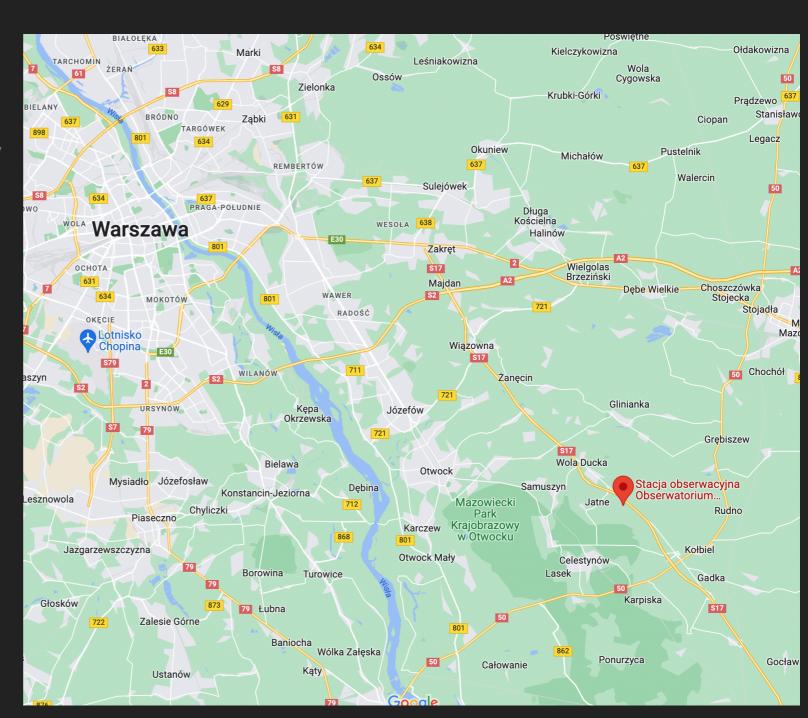
SCALING UP THE NORTHERN ASTRONOMICAL STATION IN OSTROWIK



ASTRONOMICAL OBSERVATORY OF THE UNIVERSITY OF WARSAW with Monika Sitek, Jakub Suchecki, Przemysław Mikołajczyk, Ewa Zegler-Poleska, Michał Szymański

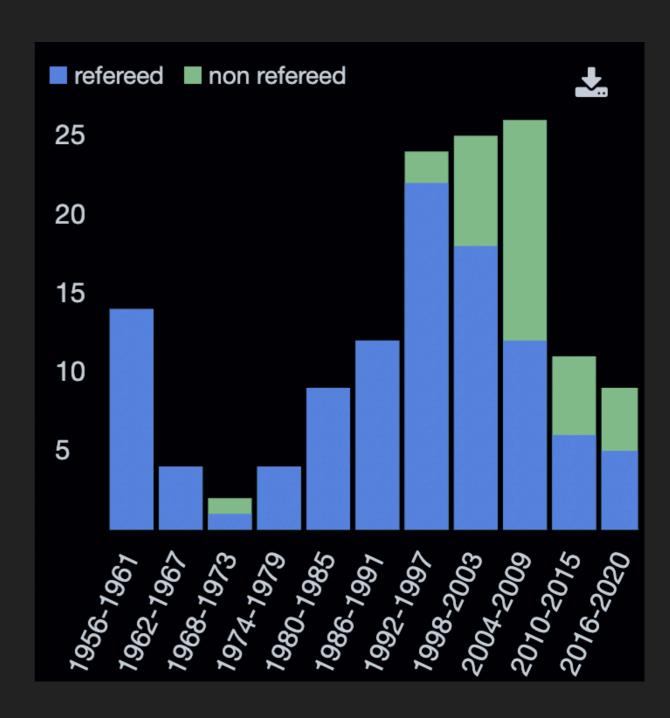
WARSAW UNIVERSITY ASTRONOMICAL OBSERVATORY IN OSTROWIK

- Established in 1952
- Located 50km from Warsaw,30min drive (new S17 road)
- Surrounded by forests to minimize the light polution
- Research and training facility for generations of Polish astronomers (Semeniuk, Kruszewski, Paczyński, Krzemiński)



SCIENCE SINCE 1950S

- 1960s: foundations of the gravitational wave research with binary stars by Bohdan Paczyński
- 1973: 60cm telescope from Carl Zeiss Jena (copies in Wrocław, Toruń, Kraków, still in operation)
- 1991: CCD camera installed (30 years)
- couple of paper every year over last 70 years

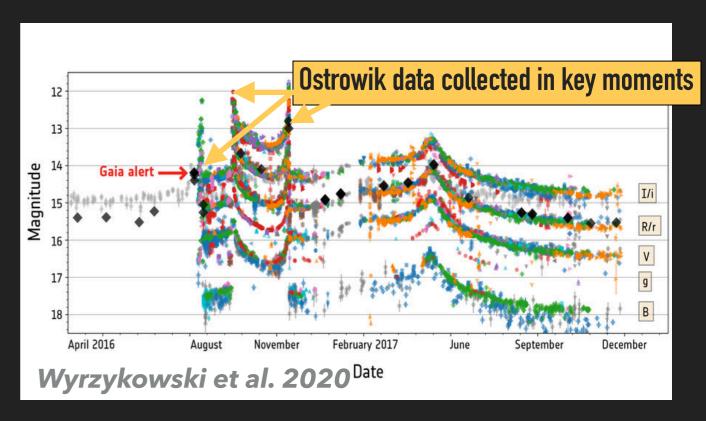


SCIENCE SINCE 1950S

- Ostrowik is part of a global telescope network since 2013
- Participation in long-term monitoring programs
- E.g. global campaign collected 20000 points for a crazy binary microlensing event found by the Gaia space mission

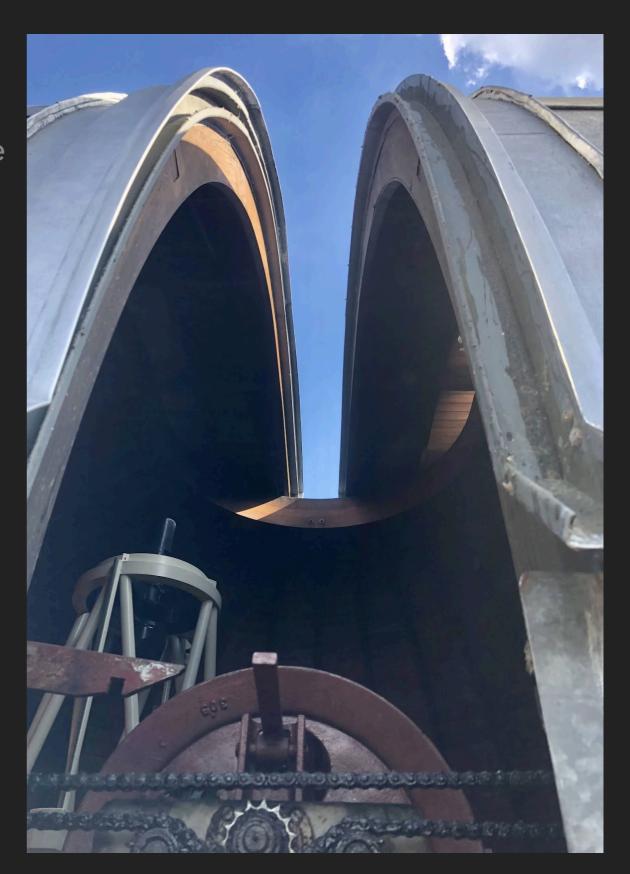
https://bhtom.space





PROJECT DESCRIPTION

- long-awaited necessary hardware upgrade (camera, dome, computers)
- revitalize and upgrade the observatory to the world-class level
- modern astronomy is about time-domain long-term observations – Ostrowik can play an important role in a global network of small telescopes
- improved data quality = better scientific output of the facility
- improved operation of the telescope =more optimal use of the observing time



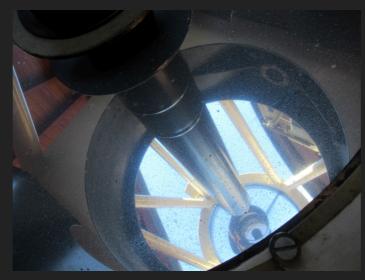
MAIN BUDGET ITEMS



new professional CCD camera



new computers



60cm mirror cleaning



robotic aux telescope in small dome

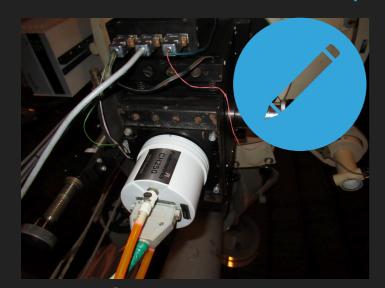


autoguiding



automatic dome control

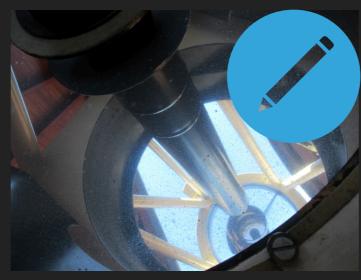
CURRENT STATUS (FEB 2023)



new professional CCD camera



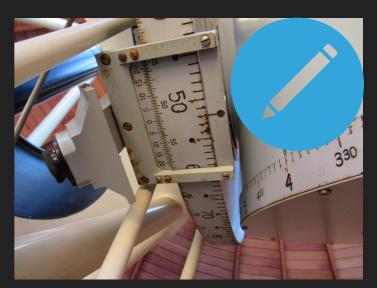
new computers



60cm mirror cleaning



robotic aux telescope in small dome



autoguiding



automatic dome control

NEW CAMERA



| Common Acquation Settings | Setting Dook | Settin

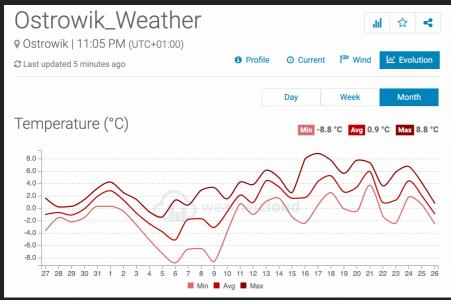
- Tender announced in Jun 2022
- New camera arrived Oct 2022
- Returned to the producer after failing tests
- Camera and filter box ready



SCALING UP THE NORTHERN ASTRONOMICAL STATION IN OSTROWIK

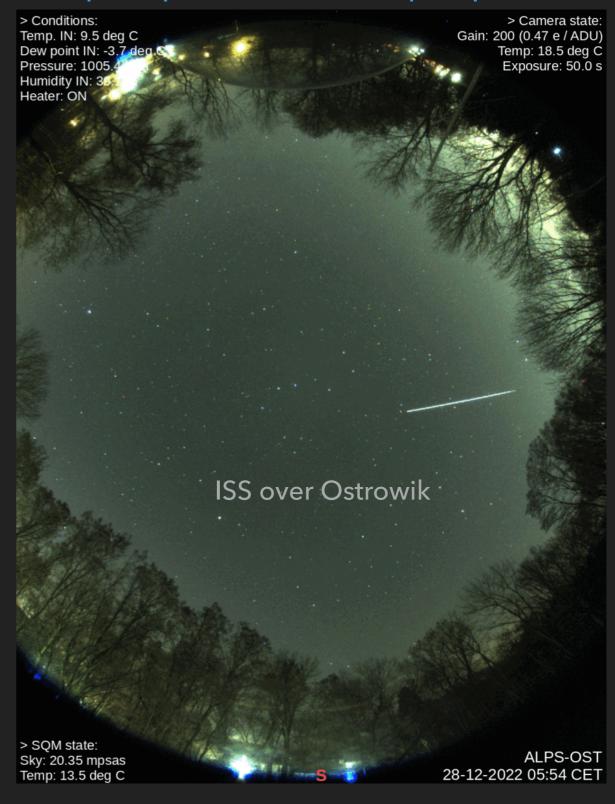
SKY MONITORING STATION





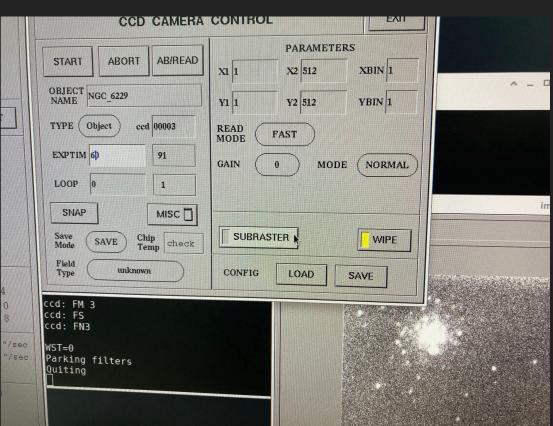
- ALPS (All-Sky Light Pollution Survey) unit in the network run by the University of Wrocław
- Installed in Dec 2021 (Przemysław Mikołajczyk)

http://alps.astro.uni.wroc.pl/alps_ost/



NEW COMPUTERS





- Purchased and installed in 2022
- Old observing software is being rewritten (Jakub Suchecki)

EDUCATIONAL ACTIVITIES



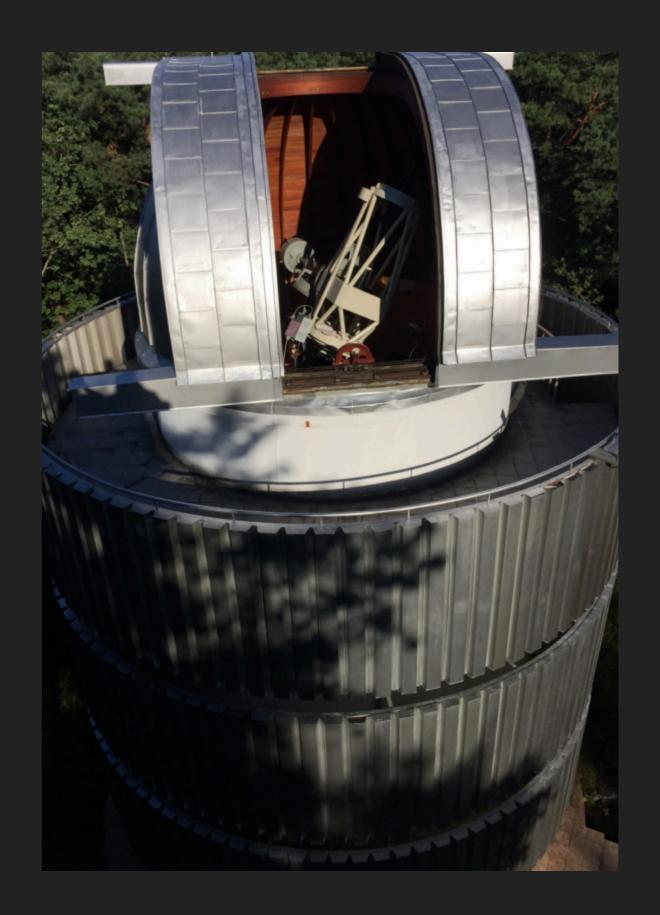
- Regular school visits
- Lectures and outreach (Monika Sitek)
- Tours to the telescope
- Interships for astronomy students
- Polish Children's Fund workshops (KFnRD)





PERSPECTIVES

- maintaning the heritage of the University
 the upgrade will allow for next 20 years
 of operation
- international collaboration in cuttingedge science – active player in the global network of small telescopes led by the University of Warsaw
- possibilities for small research projects led by students at Internships or Workshops and for Bachelor, Master, PhD theses
- a step in the direction of a modern research and outreach centre





THANK YOU!

http://ostrowik.astrouw.edu.pl http://alps.astro.uni.wroc.pl/alps_ost/



https://www.facebook.com/0AUW0strowik