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EAST

**EUROPEAN ASTRONOMICAL
SOCIETY OF SMALL TELESCOPES**



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Our project idea

- We unite a global network of over **130 telescopes** across **5 continents**, originally developed to support **ESA's Gaia mission** through real-time photometry and astrophysical transient events follow-up.
- We mastered the **data collection, standardization, and processing pipelines** for small telescopes, enabling **citizen science engagement** and **professional astronomy** alike.
- We turn **non-expert facilities** (schools, public observatories, amateurs) into valuable nodes of the global scientific network.

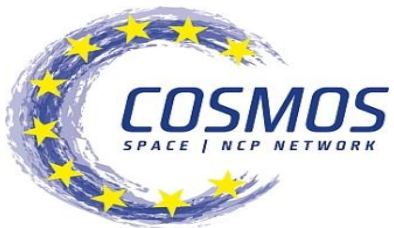
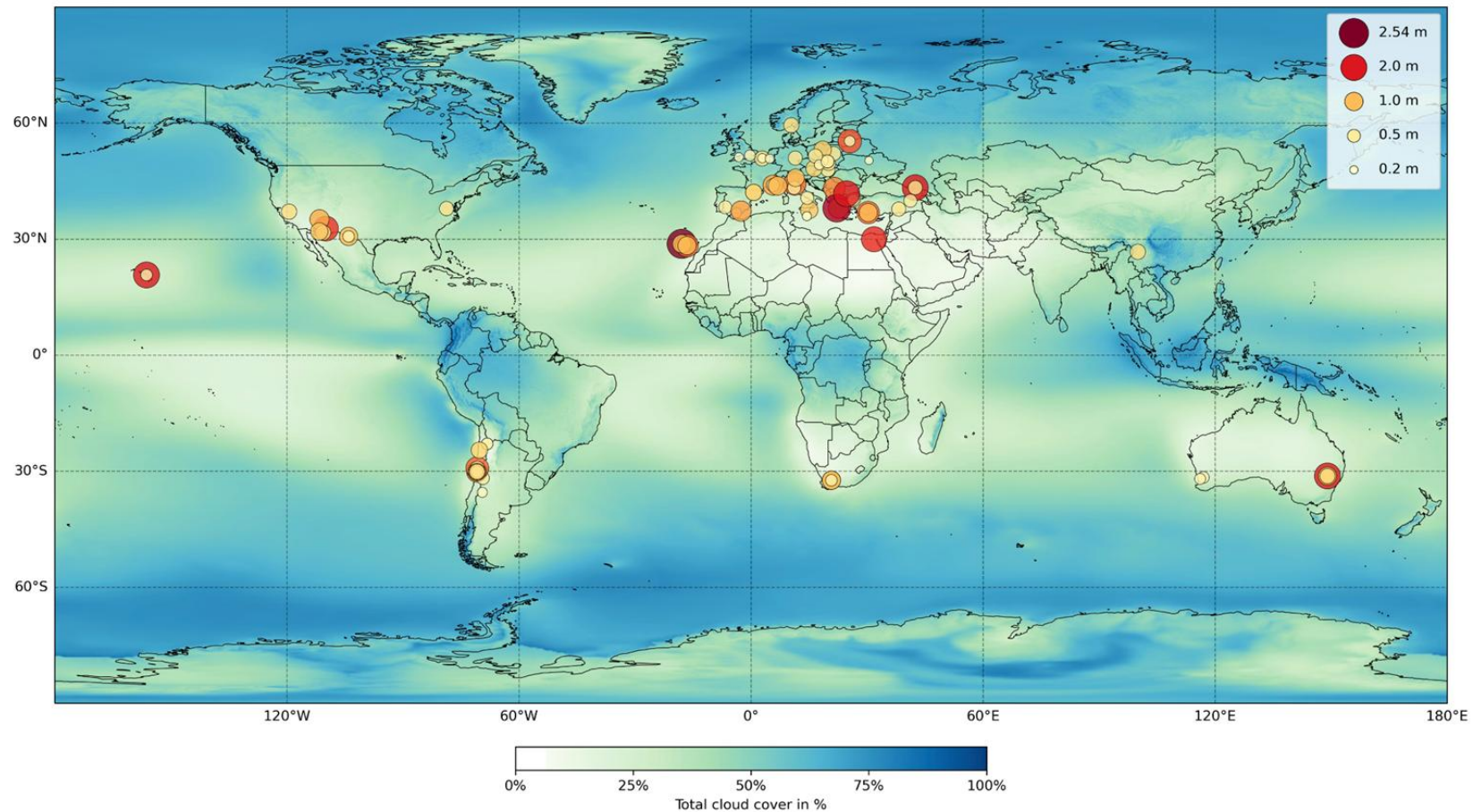
Previous & Ongoing Projects:

- **Gaia Science Alerts** (2014-2025): Real-time transient detection and follow-up.
- **BHTOM.space** (since 2020): Global photometric follow-up platform (EC Horizon Europe-funded).
- **EASST Outreach**: Public engagement programs connecting telescopes with education and citizen science.



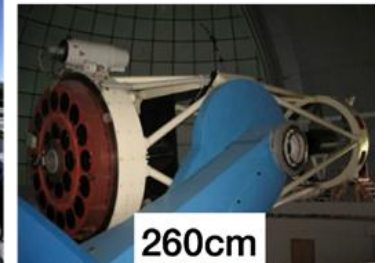
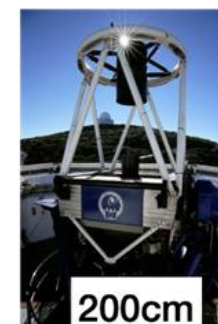
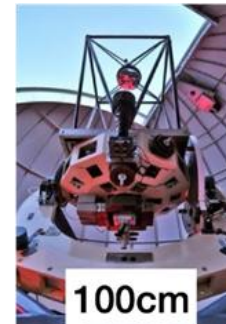
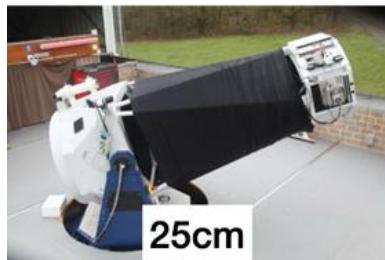
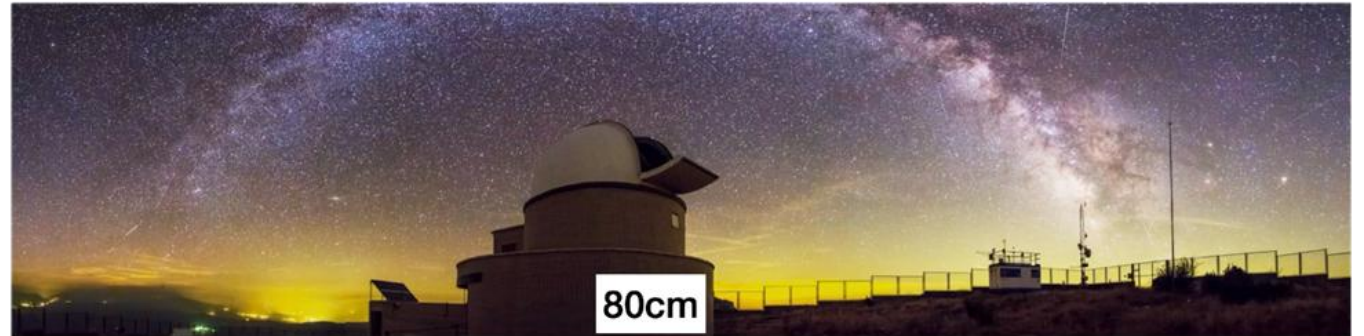
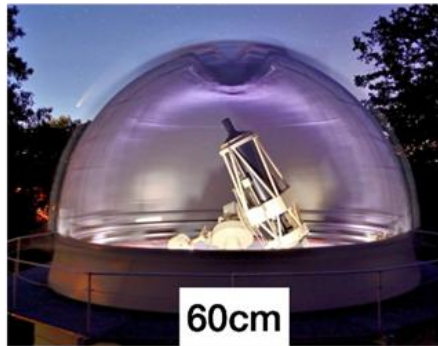
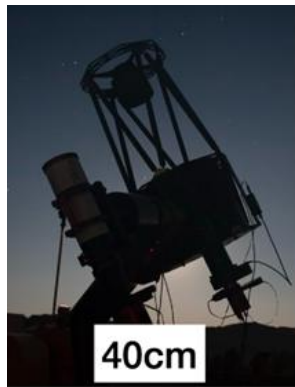
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Global telescope network

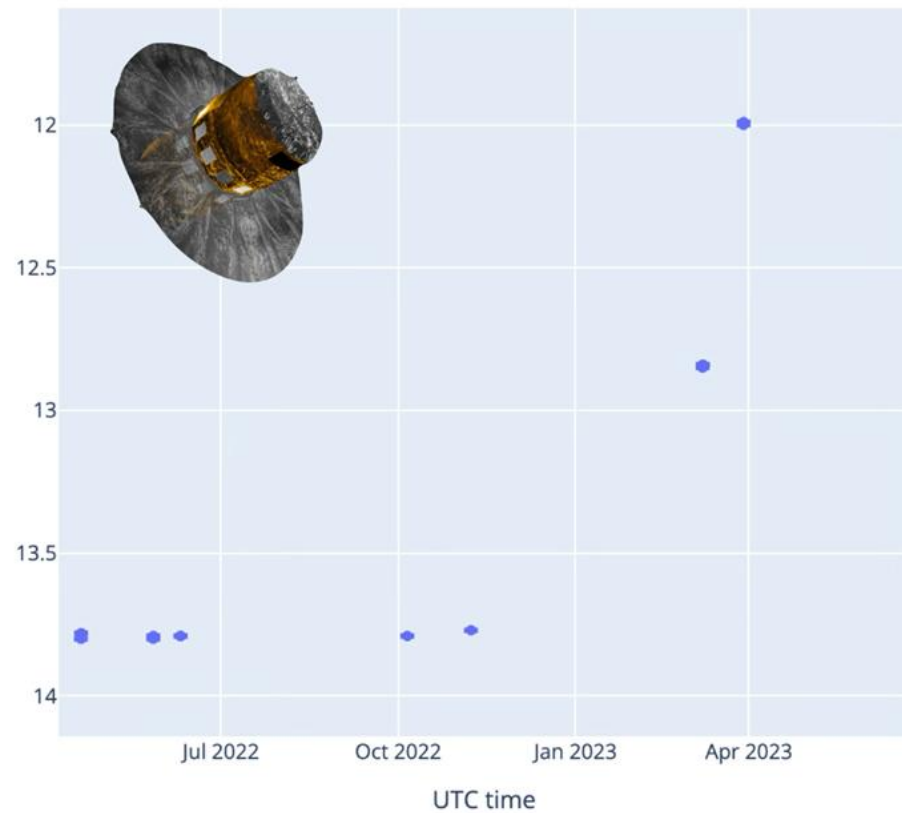


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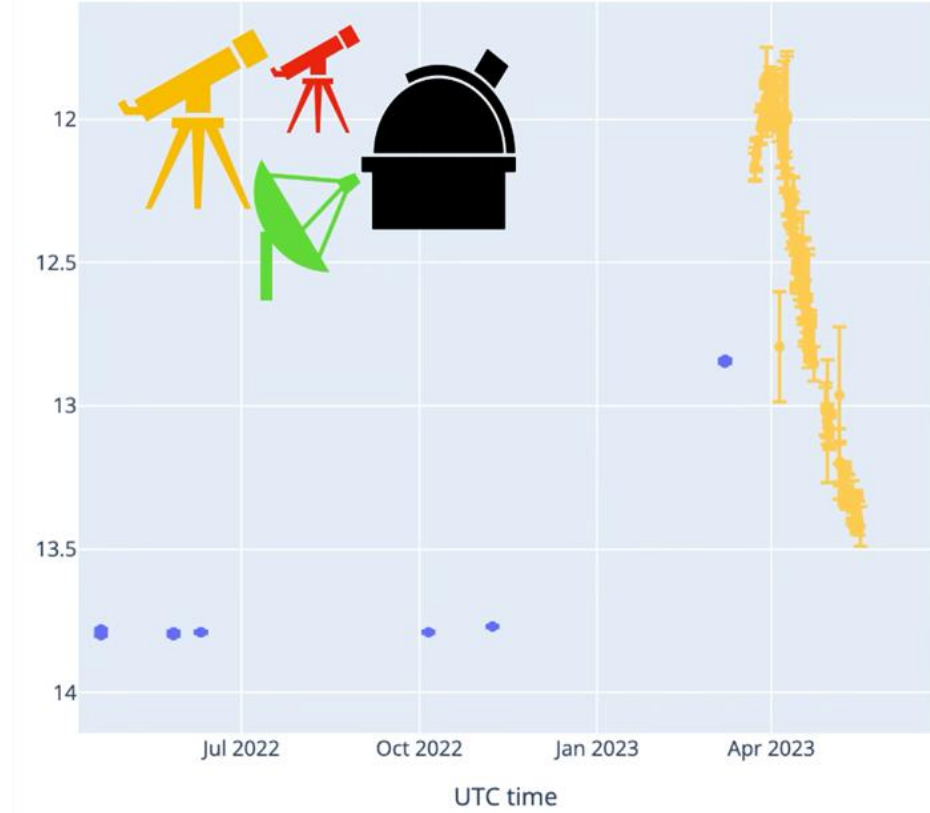
Global telescope network



Small telescopes supporting Gaia space mission

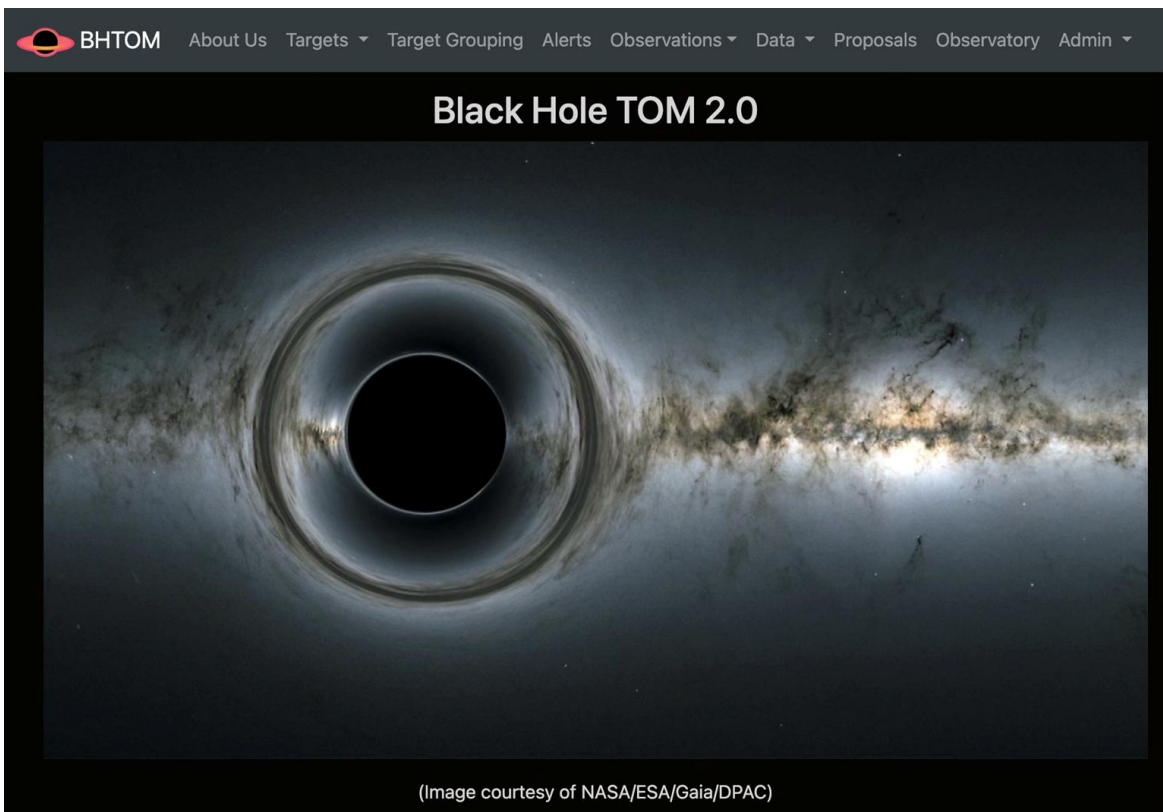


only Gaia



Gaia+small telescopes

BHTOM.space - automated data processing tool for an array of telescopes



	Names	RA	Dec	Nobs	Last Gmag	Last Filter	Importance	Created	Priority	Sun	Class
■	Gaia18acq	22:05:42.324	+03:39:17.064	982	20.2	Gaia/r	9.99	2023-09-18 10:09:17	799.0	155	long_period_variable
■	Gaia22bpl	10:38:42.425	-61:15:49.680	903	12.7	Gaia/r	9.99	2023-09-18 10:09:48	208.6	64	microlensing_event
■	Gaia22awa	19:04:51.962	-08:34:00.660	1602	15.0	Gaia/r	9.99	2023-09-17 21:09:11	770.1	111	microlensing_event
■	ZTF19abflrit	18:24:23.314	-24:36:42.053	842	15.2	Gaia/r	0.0	2023-09-19 11:09:02	0.0	100	long_period_variable

- fully automated real-time data processing - PSF photometry (the major bottleneck for many telescopes)
- standardisation of observations from any filter to Gaia Synthetic Photometry
- downloadable and science-ready - for registered users

New Directions: Bridging to the Space Industry

- **Expanding capabilities** to support:
 - **Satellite tracking & characterization**
 - **Space debris monitoring**
 - **Near-Earth Object (NEO) detection**
 - **Rapid-response observations for the space sector**

Looking for Partners:

- **Industry stakeholders** (satellite operators, debris mitigation experts).
- **Software developers** for adding new features and data processing.
- **Outreach organizations** to bridge science, industry, and society.



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Contact us

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NGO

Poland

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