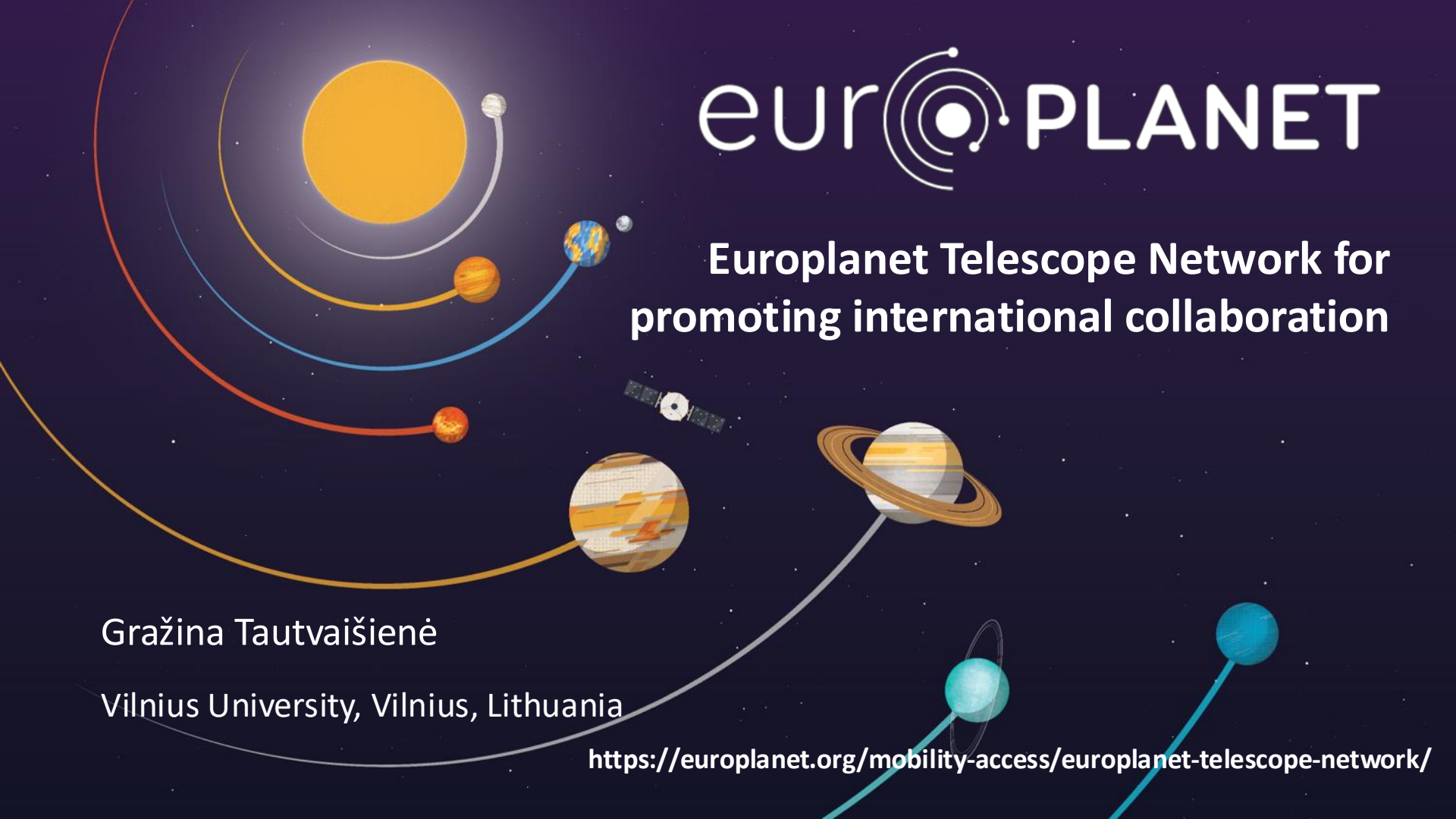


Europlanet Telescope Network for promoting international collaboration

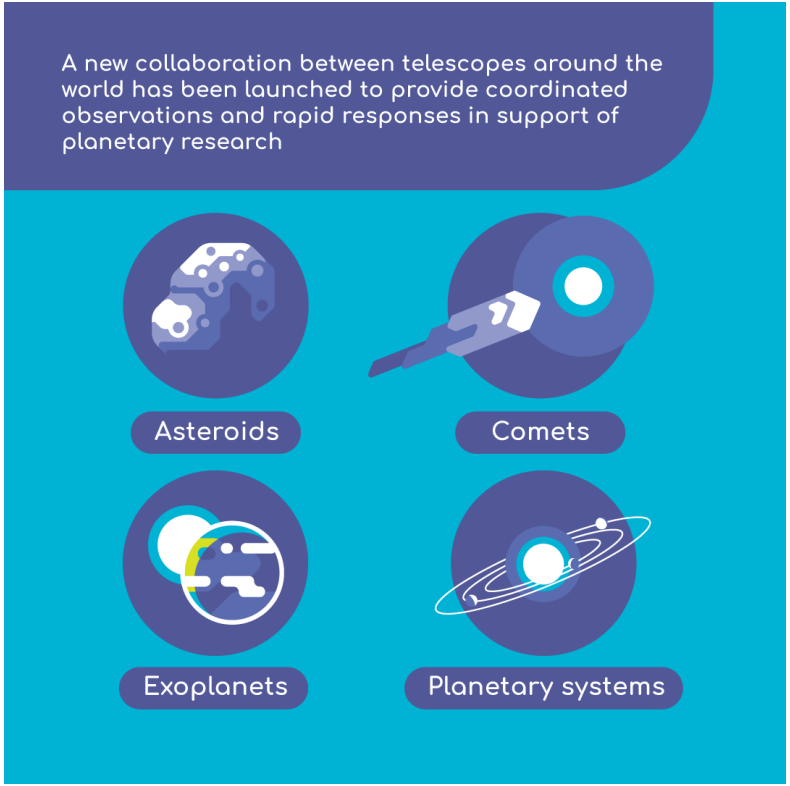
Gražina Tautvaišienė

Vilnius University, Vilnius, Lithuania

https://europlanet.org/mobility-access/europlanet-telescope-network/

Europlanet Telescope Network

- Ground-based observations play a significant role in the study of planets, exoplanets, planet-hosting stars, asteroids, comets and related objects.
- All planetary space missions need preparatory and follow-up ground-based observations.
- Medium- and small-size telescopes can implement a variety of fast-reaction and long-term projects and produce first-rate science.



2

EUROPLANET TELESCOPE NETWORK

Europlanet Telescope Network
currently unites
21 observatories
with 32 telescopes
in 16 countries
and
the Faulkes telescope
network with 21 telescopes

Observatory	Country	Telescopes	Observations
Byurakan Astrophysical Observatory	Armenia	2.6m	Imaging, spectroscopy
Rozhen Observatory	Bulgaria	2m, 60cm, 50/70cm	Spectroscopy, photometry
Faulkes Telescope Project (Las Cumbres Observatory)		Two 2m, nine 1m, ten 40 cm	Imaging
Terskol Peak Observatory	Ukraine	2m, 60cm	Spectroscopy, imaging
Kottamia Astronomical Observatory	Egypt	1.88m, 28cm	Imaging, spectroscopy, imaging- and spectro-polarimetry
Moletai Astronomical Observatory	Lithuania	1.65m, 80cm, 35/51cm	Spectroscopy, photometry
Danish 1.54 m telescope at ESO La Silla Observatory	Denmark	1.54m	Imaging, photometry
Tartu Observatory	Estonia	1.5m, 60cm, 30cm	Spectroscopy, photometry
Skalnate Pleso Observatory	Slovakia	1.3m, 61cm	Imaging, photometry
Calar Alto Observatory	Spain	1.23m	Photometry
Baldone Observatory	Latvia	1.2m	Imaging, photometry
Kryoneri Observatory	Greece	1.2m	Fast-frame imaging
Pic du Midi Observatory	France	1.06m	Imaging
Konkoly Observatory	Hungary	1m, 80cm	Imaging, photometry
Observatorio del Teide	Spain	82cm, 45cm	Imaging, photometry
Observatorio Astrofísico de Javalambre	Spain	80cm	Imaging, photometry
Observatori del Montsec	Spain	80cm	Spectroscopy, photometry
Chuguev Observatory	Ukraine	70cm	Imaging, photometry
Lisnyky Observation Station	Ukraine	70cm	Imaging, photometry
Atlas Sky Observatory, Oukaimeden Observatory	Morocco	50cm	Imaging, photometry
Mahikeng Astronomical Observatory	South Africa	50cm	Imaging, photometry
Beacon Observatory	United Kingdom	43cm	Imaging, photometry

Europlanet Telescope Network

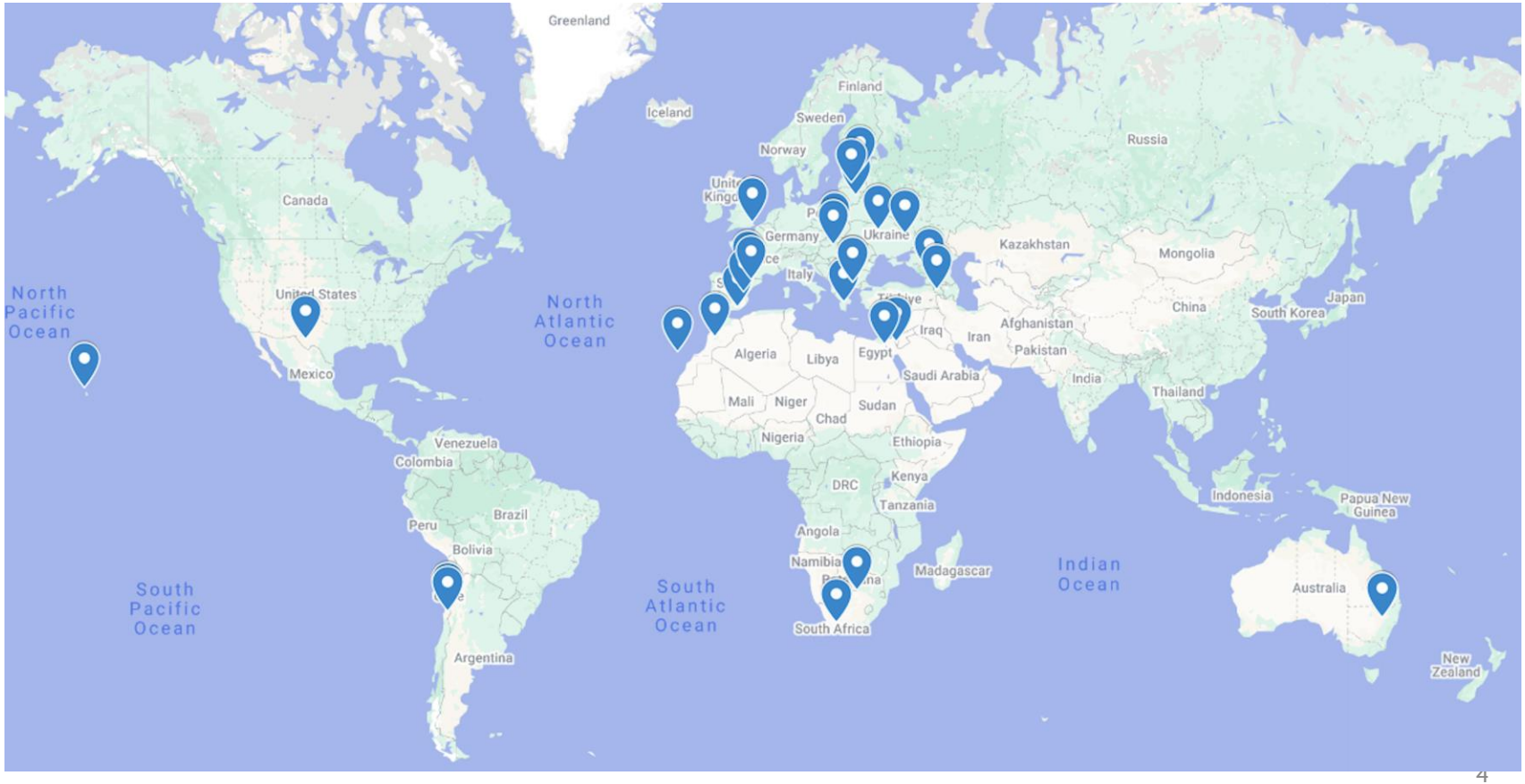


Table containing information about telescopes

https://bit.ly/4jodfGr

Observing time allocation

Instrumentation

Availability of service observations

Possibility of collaborative projects

Accommodation possibilities

Contact persons

Web Sites, etc.

A&A 654, A87 (2021)
https://doi.org/10.1051/0004-6361/202140991

Astronomy & Astrophysics

Properties of slowly rotating asteroids from the Convex Inversion Thermophysical Model*

A. Marciniak[1], J. Ďurech[2], V. Alí-Lagoa[3], W. Ogłoza[4], R. Szakáts[5], T. G. Müller[3], L. Molnár[5,6,7], A. Pál[5,8], F. Monteiro[9], P. Arcoverde[9], R. Behrend[10], Z. Benkhaldoun[11], L. Bernasconi[12], J. Bosch[13], S. Brincat[14], L. Brunetto[15], M. Butkiewicz - Bąk[1], F. Del Freo[16], R. Duffard[17], M. Evangelista-Santana[9], G. Farroni[18], S. Fauvaud[19,20], M. Fauvaud[19,20], M. Ferrais[21], S. Geier[22,23], J. Golonka[24], J. Grice[25], R. Hirsch[1], J. Horbowicz[1], E. Jehin[26], P. Julien[14], Cs. Kalup[5], K. Kamiński[1], M. K. Kamińska[1], P. Kankiewicz[27], V. Kecskeméthy[5], D.-H. Kim[28,29], M.-J. Kim[29], I. Konstanciak[1], J. Krajewski[1], V. Kudak[30,31], P. Kulczak[1], T. Kundera[4], D. Lazzaro[9], F. Manzini[15], H. Medeiros[9,22], J. Michimani-Garcia[9], N. Morales[17], J. Nadolny[22,32], D. Oszkiewicz[1], E. Pakštienė[33], M. Pawłowski[1], V. Perig[31], F. Pilcher[34], P. Pinel[†,18], E. Podlewska-Gaca[1], T. Polakis[35], F. Richard[20], T. Rodrigues[9], E. Rondón[9], R. Roy[36], J. J. Sanabria[22], T. Santana-Ros[37,38], B. Skiff[39], J. Skrzypek[1], K. Sobkowiak[1], E. Sonbas[40], G. Stachowski[4], J. Strajnic[16], P. Trela[1], Ł. Tychoniec[41], S. Urakawa[42], E. Verebelyi[5], K. Wagrez[16], M. Żejmo[43], and K. Żukowski[1]

Monthly Notices of the ROYAL ASTRONOMICAL SOCIETY
MNRAS 505, 4956–4967 (2021)
Advance Access publication 2021 May 31
https://doi.org/10.1093/mnras/stab1567

Discovery of a young low-mass brown dwarf transiting a fast-rotating F-type star by the Galactic Plane eXoplanet (GPX) survey

P. Benni[1★], A. Y. Burdanov[2,3★], V. V. Krushinsky[4], A. Bonfanti[5,6], G. Hébrard[7,8], J. M. Almenara[9], S. Dalal[7], O. D. S. Demangeon[10], M. Tsantaki[11], J. Pepper[12], K. G. Stassun[13], A. Vanderburg[14*], A. Belinski[15], F. Kashaev[16], K. Barkaoui[17,18], T. Kim[19], W. Kang[19], K. Antonyuk[20], V. V. Dyachenko[21], D. A. Rastegaev[21], A. Beskakotov[21,22], A. A. Mitrofanova[21], F. J. Pozuelos[6,17], E. D. Kuznetsov[23], A. Popov[23], F. Kiefer[7], P. A. Wilson[24,25], G. Ricker[26], R. Vanderspek[26], D. W. Latham[27], S. Seager[2,26,28], J. M. Jenkins[29], E. Sokov[22,30], I. Sokova[22,30], A. Marchini[31], R. Papini[32], F. Salvaggio[32], M. Banfi[32], Ö. Baştürk[33], Ş. Torun[33], S. Yalçınkaya[33], K. Ivanov[34], G. Valyavin[20,21,22], E. Jehin[6], M. Gillon[17], E. Pakštienė[35], V.-P. Hentunen[36], S. Shadick[37], M. Bretton[38], A. Wünsche[38], J. Garlitz[39], Y. Jongen[40], D. Molina[41], E. Girardin[42], F. Grau Horta[43], R. Naves[44], Z. Benkhaldoun[18], M. D. Joner[45], M. Spencer[45], A. Bieryla[27], D. J. Stevens[46,47†], E. L. N. Jensen[48], K. A. Collins[27], D. Charbonneau[27], E. V. Quintana[49], S. E. Mullally[50] and C. E. Henze[29]

doi: 10.32023/0001-5237/71.1.2
ACTA ASTRONOMICA
Vol. 71 (2021) pp. 25–53

Massive Search for Spot- and Facula-Crossing Events in 1598 Exoplanetary Transit Light Curves

R.V. Baluev[1], E.N. Sokov[2,1], I.A. Sokova[2,1], V.Sh. Shaidulin[1], A.V. Veselova[1], V.N. Aitov[3], G.Sh. Mitiani[3], A.F. Valeev[3,4], D.R. Gadelshin[3], A.G. Gutaev[3,5], G.M. Beskin[3,5], G.G. Valyavin[3,4,1], K. Antonyuk[4], K. Barkaoui[6,7], M. Gillon[6], E. Jehin[8], L. Delrez[6,8], S. Guðmundsson[9], H.A. Dale[10], E. Fernández-Lajús[11,12], R.P. Di Sisto[11,12], M. Bretton[13], A. Wunsche[13], V.-P. Hentunen[14], S. Shadick[15], Y. Jongen[16], W. Kang[17], T. Kim[17,18], E. Pakštienė[19], J.K.T. Qvam[20], C.R. Knight[21], P. Guerra[22], A. Marchini[23], F. Salvaggio[23], R. Papini[23], P. Evans[24], M. Salisbury[25], J. Garlitz[26], N. Esseiva[27], Y. Ogmen[28], P. Bosch-Cabot[29], A. Selezneva[29] and T.C. Hinse[30,31]

26 papers published in refereed journals

Minor Planet Bulletin 48 (2021)

SERENDIPITOUS ASTEROIDS

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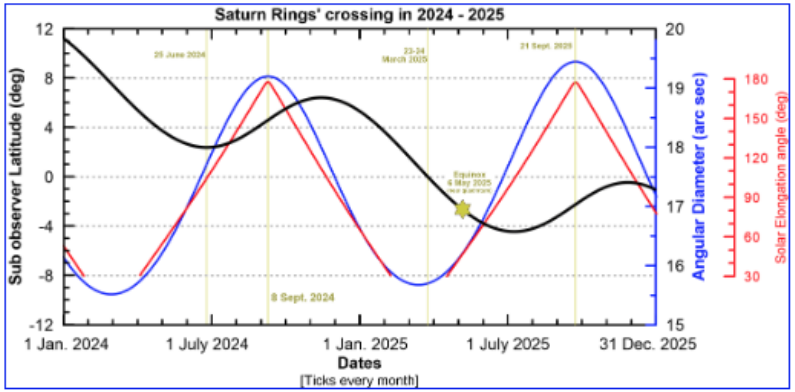
Mt. Suhora Observatory, Pedagogical University, Podchorążych 2, 30-084, Cracow, POLAND

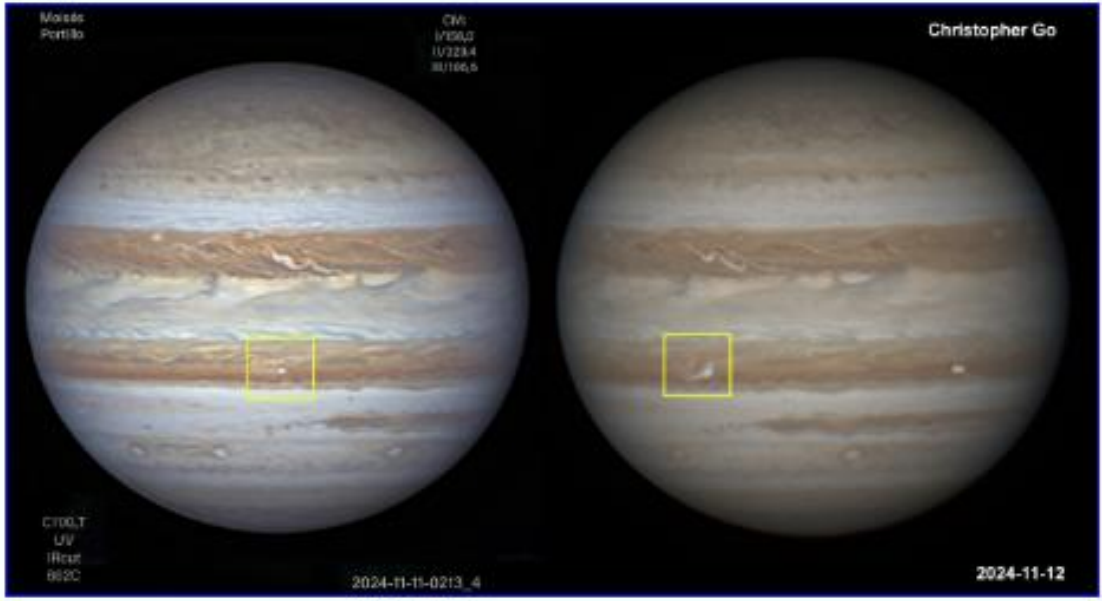
PVOL

Planetary Virtual Observatory & Laboratory



Observational alerts:

- Saturn rings crossing 2024-2025
- Call for the Jupiter observations on November 2024



pvol2.ehu.eus/pvol2

Gaia Ground-based Observational Service for Asteroids

GOSA www.gaiagosa.eu

210 active users
1047 observations

Hot targets

Hot targets are asteroids with high priority which will be automatically added to your

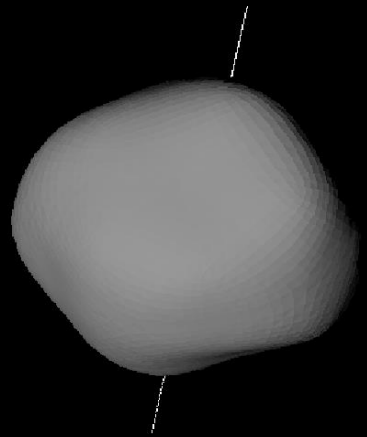
Gaia-GOSA Hot Targets on 2023-08-04

Asteroid id	Gaia transit time (UTC)	Magnitude	Science case
(255) Oppavia	20:41:30	14.96	Slow rotator
(193) Ambrosia	18:52:31	15.18	n/d
(11429) Demodokus	9:53:42	18.25	Trojan with high-amplitude lightcurve

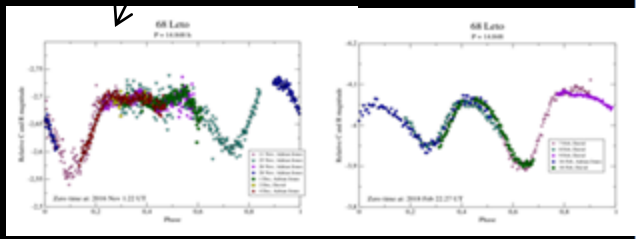
Follow-up targets

Asteroids with existing observations which need for follow-up to complete the lightcurve. Click on an asteroid id to check if the object is visible from your site.

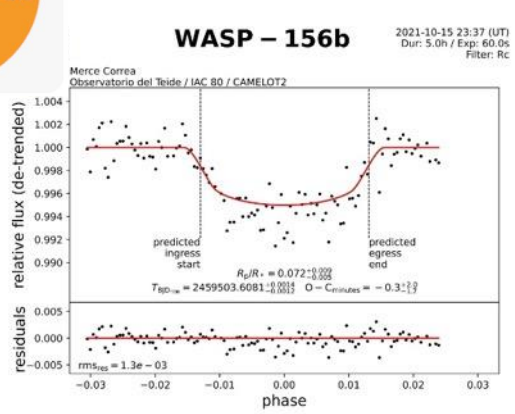
Asteroid id	Completeness	Visible until	Magnitude range	Preliminary period	Observation strategy	Priority
(45) Eugenia	0%	01-09-2023	11 - 12.3	5.699 h		Critical
(15) Eunomia	100%	30-09-2023	8.9 - 10.7	5.699 h	dec.=-27	Critical
(39) Laetitia	100%	07-09-2023	10.4 - 11.3	5.138 h		Critical
(221) Eos	0%	30-05-2023	13.6 - 14.2	10.443 h		Critical
(489) Comacina	0%	15-06-2023	13.8 - 14.2	9.02 h		Critical
(79) Eurynome	100%	01-11-2023	11.4 - 12.8	5.978 h		Critical
(471) Papagena	0%	01-08-2023	11.8 - 12.8	7.113 h		Critical
(20) Massalia	0%	01-09-2023	10 - 11.5	8.098 h	Period resonant with one day, dec.=-22	Critical
(593) Titania	0%	17-10-2023	14.2 - 15.1	9.89 h	dec.=-37	Important
(218) Bianca	0%	30-09-2023	11.8 - 13.3	6.337 h		Important
(114) Kassandra	0%	01-07-2023	12 - 12.9	10.7431 h		Important
(1115) Sabauda	100%	02-07-2023	14.3 - 15.6	6.718 h	Critical opposition for modelling	Nice to have

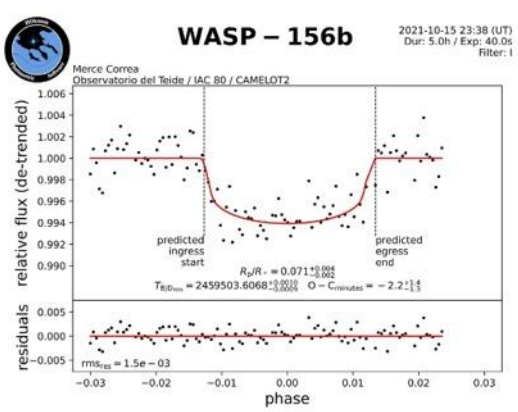


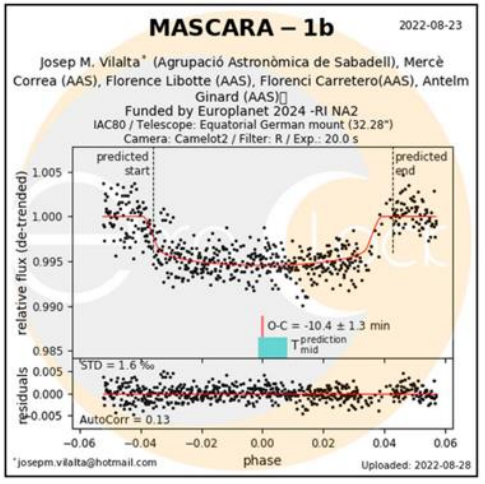
Scientific analysis –
see Podlewska-Gaca et al. 2020, AA id.A11

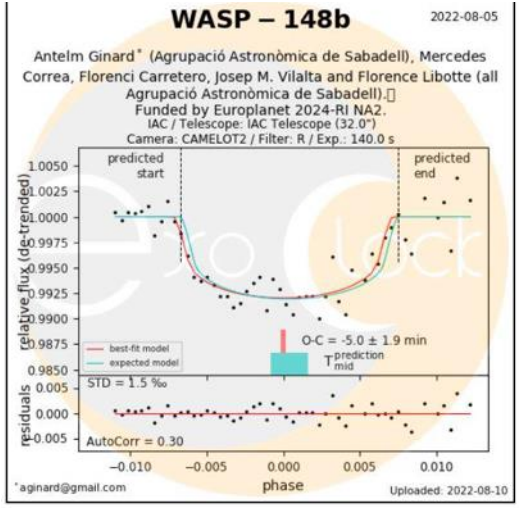


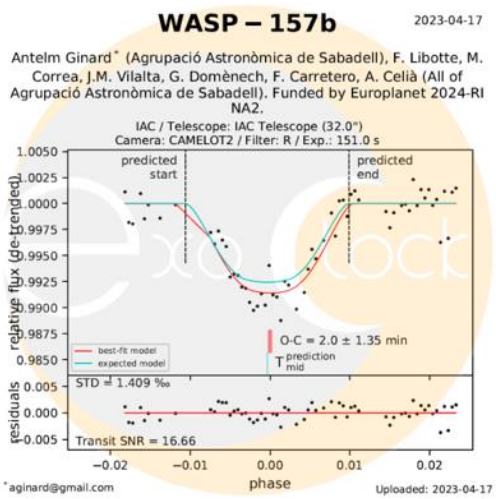
Exoplanet transits in ExoClock exoclock.space

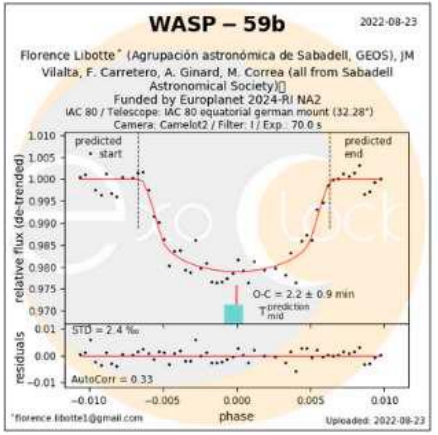






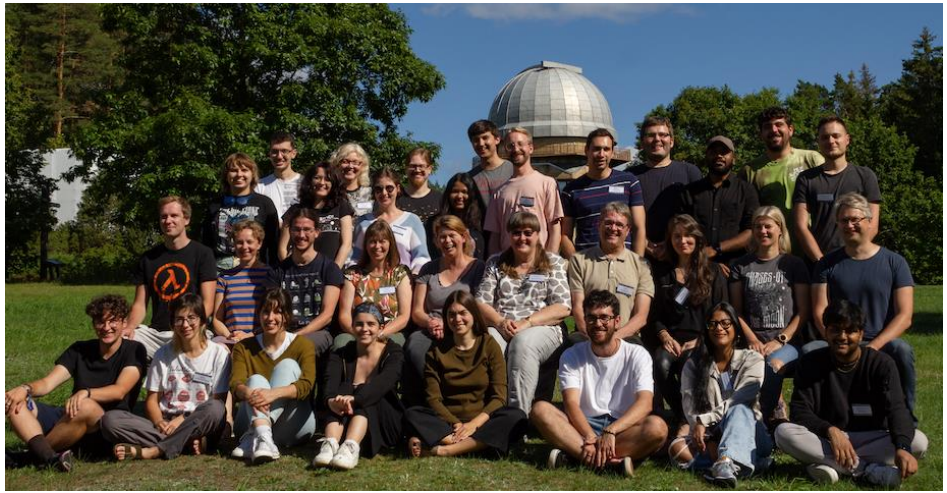






Europlanet Telescope Network
Science Workshops and Summer Schools

More than 20 workshops and summer schools organised.



The first science meeting attracted participants from 43 countries (11 of them EU URS and 23 Non-EU). Among 210 participants, there were 63 early career researchers, 80 amateurs, 22 educators, and 43 senior researchers.

Summer Schools on Asteroid Observations

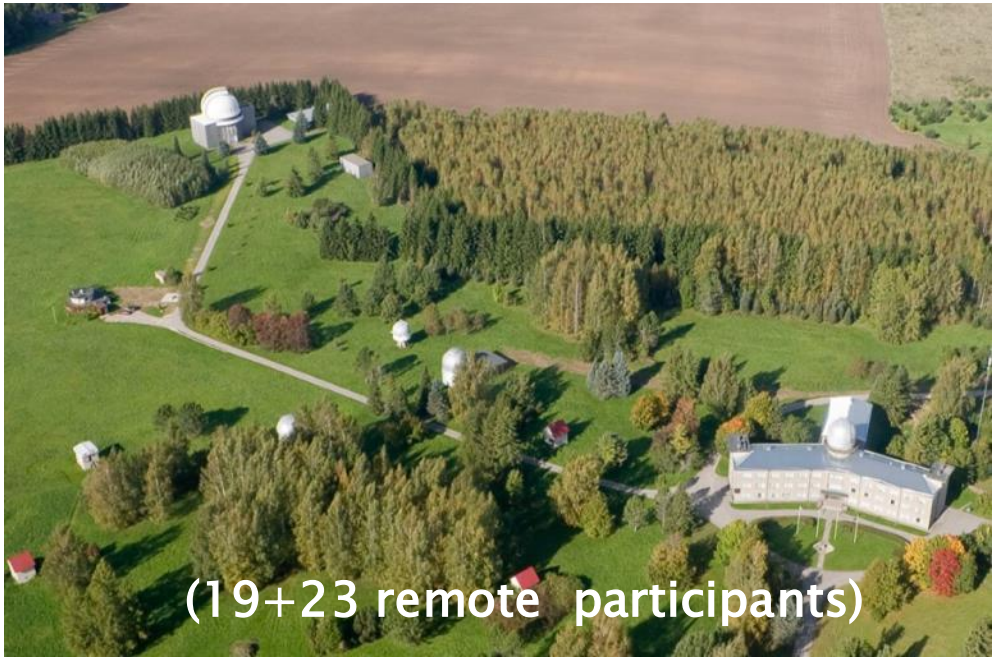
40 participants from 32 countries (16-27 September, 2021, virtual due to Covid)

Remote observations with the telescope of Moletai Astronomical Observatory in Lithuania

Asteroid Research Training Workshop

21-25 August 2023 Tartu Observatory, Estonia

https://sisu.ut.ee/eptartuworkshop



Summer Schools

“Space missions: ground-based observations and science communication”

8 – 18 August 2023 Moletai Astronomical Observatory, Lithuania

http://mao.tfai.vu.lt/europlanet2023

Europlanet Pro-Am Comet Community (Hybrid) Workshop

Prague, 10-12 June 2022

https://www.europlanet-society.org/pro-am-comet-community-hybrid-workshop/

Sustainability for Europlanet

https://www.europlanet-society.org/europlanet-aisbl/

Established in 2023

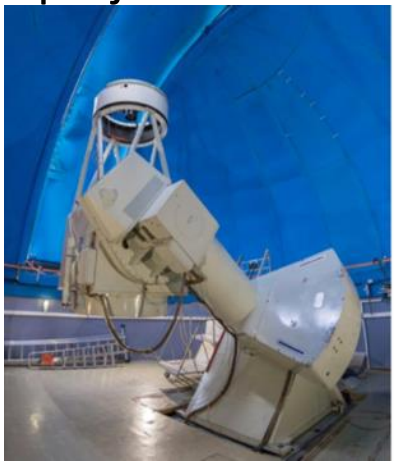
- Europlanet AISBL provides a legal structure for the sustainability of Europlanet activities including the Europlanet Society.
- Supports the planetary science community through the Europlanet Society and its structures, including EPSC.
- Establishes strategic collaborations to support planetary science.
- Develops and maintains infrastructures to support planetary sciences.

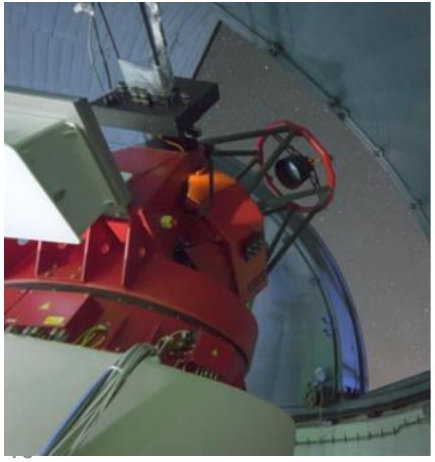
The launch of the Europlanet Society at EPSC2018. Credit: L Giacomini

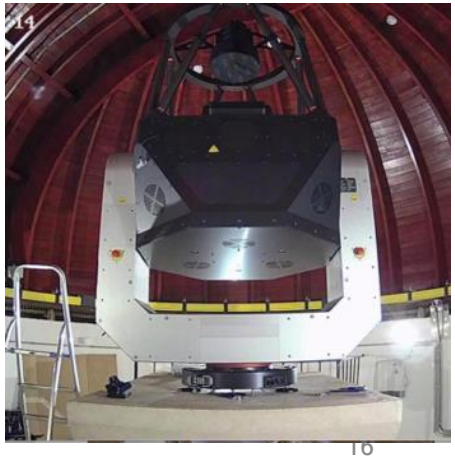
Members of the Europlanet Society gathered for the General Assembly at EPSC2022. Credit: Europlanet/T Roger.

Observatories are providing free of charge observing time for collaborative projects and the Faulkes network for the education related projects







Thank You!
Let‘s collaborate !

Contact:
grazina.tautvaisiene@tfai.vu.lt