

Annex 1

List of publications in project “Complex investigations of Solar System small bodies”

Completed scientific publications (SCOPUS, WoSCC and/or ERIH +):

1. **M. Bleiders, A. Berzins, N. Jekabsons, V. Bezrukovs, K. Skirmante** Low-Cost L-band Receiving System Front-End for Irbene RT-32 Cassegrain Radio Telescope, Latvian Journal of Physics and Technical Sciences, 2019, Vol.56, No.3, 50.-61.pp
<https://sciendo.com/article/10.2478/lpts-2019-0019>
2. Jones, Geraint H.; Agarwal, Jessica; Bowles, Neil; Burchell, Mark; Coates, Andrew J.; Fitzsimmons, Alan; **Graps, Amara**; et al., The proposed Caroline ESA M3 mission to a Main Belt Comet, Advances in Space Research, 2018, Vol. 62, Issue 8, p. 1921
<https://www.sciencedirect.com/science/article/pii/S0273117718301741?via%3Dihub>
3. K. Skirmante, I. Eglitis, N. Jekabsons, V. Bezrukovs, M. Bleiders, M. Nechaeva and G. Jasmonts, Observations of astronomical objects using radio (Irbene RT-32 telescope) and optical (Baldone Schmidt) methods, Astronomical and Astrophysical Transactions, 2020, Vol 29, Issue 1, p.179-188 <https://www.degruyter.com/document/doi/10.1515/astro-2020-0017/html>
4. I. Wlodarczyk, K. Černis, and I. Eglitis, Observational data and orbits of the asteroids discovered at the Baldone observatory in 2015–2018, Open Astronomy, 2020, Vol 29, Issue 1, p.179-188 <https://www.degruyter.com/document/doi/10.1515/astro-2020-0017/html>
5. I. Eglitis, V. Andruk, Astrometry and photometry of digitized plates of Baldone Schmidt telescope, Open Astronomy, 2021, Vol 30, Issue 1, pp.12-23
<https://www.degruyter.com/document/doi/10.1515/astro-2021-0002/html>

Intended scientific publications (SCOPUS, WoSCC and/or ERIH +):

1. K.Skirmante, Vl.Bezrukovs, M.Bleiders, G.Jasmonts, N.Jekabsons, M.Nechaeva, Observations of weak galactic OH masers in 1.6 GHz frequency band using Irbene RT32 radio telescope, Astronomical and Astrophysical Transactions, 2022, in press. (pdf of article in Annex 2)
2. I. Eglitis, A. Bule, A. Sokolova, K. Nagainis, Observations of NEO and Main Belt asteroids in 2018-2021 using the Baldone Schmidt telescope, Astronomical and Astrophysical Transactions, 2022, in press. (pdf of article in Annex 2)
3. K. Skirmante, V.I. Bezrukovs, M. Bleiders, G. Jasmonts, N. Jekabsons, M. Nechaeva Evaluation of cometary OH masers emissions in 1.6 GHz frequency band emissions and observations in 1.6 GHz frequency band using Irbene RT-32 radio telescope, Space Science and Technology, 2022, in press. (pdf of article in Annex 2)

Completed other anonymously reviewed scientific publications:

1. **Graps, Amara L.**; Abbud-Madrid, Angel; Abell, Paul et al., ASIME 2018 White Paper. In-Space Utilisation of Asteroids: Asteroid Composition -- Answers to Questions from the Asteroid Miners, 2019arXiv190411831G,
<https://arxiv.org/ftp/arxiv/papers/1904/1904.11831.pdf>
2. **I.Eglits**, Investigation of NEO asteroids 2006 VB14 and 1986 DA, Odessa Astronomical Publications, 2019, 32, 142-145, <http://oap.onu.edu.ua/article/view/181826/185096>
3. **I.Eglitis**, S. Shatokhina, O. Yizhakevych, Yu. Protsyuk, V. Andruk, Asteroid search results for digitized astroplates of 1.2m telescope in Baldone, Odessa Astronomical Publications, 2019, 32, 189 – 191, <http://oap.onu.edu.ua/article/view/181599/185108>
4. **I.Eglitis**, Asteroids exploration with Baldone Schmidt telescope, Odessa Astronomical Publications, 2018, 31, 204 – 207, <http://oap.onu.edu.ua/article/view/144438/148862>

5. Shatokhina, S. V. ; Yizhakevych, O. M. ; Protsyuk, Yu. I. ; Kazantseva, L. V. search by orcid ; Pakuliak, L. K. ; **Eglitis, I.** ; Relke, H. ; Yuldoshev, Q. X. ; Mullo-Abdolov, A. Sh. ; Andruk, V. M. On the "Solar System Bodies" Astroplate Project of the Ukrainian Virtual Observatory
<http://oap.onu.edu.ua/article/view/181732>

Completed data publications:

1. Eglitis, I.; Cernis, K.; Novichonok A.; et al, COMET C/2018 W2 (Africano), Minor Planet Electronic Circulars, No. 2019-E73 (2019)
<https://minorplanetcenter.net/iau/mpec/K19/K19E73.html>
2. Eglitis, I. ; Cernis, K. ; Zdanavicius, J., et.al, Observations and Orbits of Comets and A/ Objects, Minor Planet Electronic Circ., No. 2020-G65 (2020)
<https://minorplanetcenter.net/mpec/K20/K20G65.html>
3. Cernis, K. ; Eglitis, I. ; Coffano, A. et.al, Observations and Orbits of Comets and A/ Objects, Minor Planet Electronic Circ., No. 2020-S188 (2020)
<https://minorplanetcenter.net/mpec/K20/K20SI8.html>
4. Eglitis, I. ; Cernis, K. ; Bacci, ; P. et.al, Observations and Orbits of Comets and A/ Objects, Minor Planet Electronic Circ., No. 2020-E26 (2020)
5. Eglitis, I. ; Cernis, K. ; Nazarov, S., et.al, Observations and Orbits of Comets and A/ Objects, Minor Planet Electronic Circ., No. 2021-A190 (2021)
<https://minorplanetcenter.net/mpec/K21/K21AJo.html>
6. The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS SUPPLEMENT (MPS)
https://cgi.minorplanetcenter.net/iau/ECS/MPCArchive/MPCArchive_TBL.html
7. MPS 986745, MPS 986762, MPS 986763, MPS 1115177, MPS 1115907, MPS 1115945, MPS 1116040
8. The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS (MPC)
https://cgi.minorplanetcenter.net/iau/ECS/MPCArchive/MPCArchive_TBL.html
9. MPC 107827, MPC 108759, MPC 109228, MPC 109684, MPC 110175, MPC 110809, MPC 111864
10. The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS ORBIT SUPPLEMENT (MPO) https://cgi.minorplanetcenter.net/iau/ECS/MPCArchive/MPCArchive_TBL.html
11. MPO 445214, MPO 448864, MPO 457150, MPO 445234, MPO 524182, MPO 524362

International scientific conferences to participate in:

At the "UL 77 International Scientific conference", Riga, Latvia, 2. February 2019:

1. **I.Eglitis**, Progress in execution of Grant lzp-2018 / 1-0401 in 2018 (oral)
2. **K.Skirmante, M.Bleiders, N.Jekabsons, V.Bezrukovs**, Test-observations with IRBENE RT32: prepare radio telescope for observations of Solar system small bodies using L-band receiver (oral)

At the international conference "Large surveys with small telescopes: Past, Present, and Future (Astroplate III)", Bamberg, Germany, 11 -13. March, 2019

3. **I.Eglitis**, V.Andruk, Asteroids monitoring with 1.2m Baldone Schmidt (code 069) telescope (oral) https://www.plate-archive.org/applause/wp-content/uploads/2019/04/LSwST_abstract_booklet.pdf

At the “6th Gamow International Conference in Odessa: “New Trends in Astrophysics, Cosmology and Radioastronomy after Gamow”, 11 – 18 August, 2019, Odessa, Ukraine

4. I.Eglitis, S. Shatokhina, O. Yizhakevych, Yu. Protsyuk, V. Andruk, Asteroid search results for digitized astroplates of 1.2m telescope in Baldone (oral) http://gamow.odessa.ua/wp-content/uploads/2019/09/Fin-2019-Gamow-Abstracts_.pdf

5. I.Eglitis, Investigation of NEO asteroids 2006 VB14 and 1986 DA (oral) http://gamow.odessa.ua/wp-content/uploads/2019/09/Fin-2019-Gamow-Abstracts_.pdf

6. . Vavilova I.B., Shatokhina S.V., Yizhakevych O.M., Kazantseva L.V., Protsyuk Yu.I., Pakuliak L.K., Eglitis I., Relke H., Yuldoshev Q.X., Mullo-Abdolov A.Sh., Andruk V.M., . On the "Solar System Bodies" Astroplate Project of the Ukrainian Virtual Observatory <http://oap.onu.edu.ua/article/view/181732>

At the “6th International Scientific Conference BAASP”, Ventspils, Latvia, 21.-23. August 2019 (oral)

6. K.Skirmante, N.Jekabsons, I.Eglitis, V.I.Bezrukovs, M.Bleiders Observations of astronomical objects using radio (Irbene RT32 telescope) and optical (Baldone Schmidt telescope) methods (oral) https://drive.google.com/file/d/13vSAxFkLBBx76VoDBDy_DCPwvBlwdbde/view

At the “EPSC-DPS Joint Meeting” 2019, Geneva, Switzerland, 15–20 September 2019

7. K.Skirmante, Observations of OH maser comets in 1.6GHz frequency band: adaptation of the Irbene RT32 radio telescope and development of the data processing methods (poster) EPSC Abstracts Vol. 13, EPSC-DPS2019-732-4, 2019 EPSC-DPS, <https://meetingorganizer.copernicus.org/EPSC-DPS2019/EPSC-DPS2019-732-5.pdf>

8. A.-L.Grapa, Ten Asteroid Mining Milestones in 2018-2019 (poster) EPSC Abstracts Vol. 13, EPSC-DPS2019-1724-1, 2019 EPSC-DPS, <https://meetingorganizer.copernicus.org/EPSC-DPS2019/EPSC-DPS2019-1724-2.pdf>

At the “UL 78 International Scientific conference”, Riga, Latvia, 2.February 2020:

9. I.Eglitis, N.Jekabsons, Half period research results of project Nr. lzp-2018/1-0401 (oral)

10. K.Nagainis, **I.Eglitis**, Asteroid detection on digitized scans of Baldone Observatory (code 069) Schmidt telescope archive (oral)

11. A.Bule, I.Eglitis, A program for processing spectrum results (oral)

At the “Space Tech EXPO Europe 2019”, Bremen, Germany, 19-21 November, 2019

12. Eglitis I., Bule A., Minders V., Eglite V., Asteroid monitoring at the Baldone Astrophysical Observatory (poster).

13. K.Skirmante, M.Bleiders N. Jekabsons, V.I. Bezrukovs, A.Graps, Observations of OH maser comets in 1.6GHz frequency band: adaptation of the Irbene RT32 radio telescope and development of the data processing methods (poster).

At the “Baltic Applied Astroinformatics and Space data Processing”, 23- 24.09.2021, Ventspils, Latvia

14. K. Nagainis, I. Eglitis, Program for asteroid detection on digitized scans of Baldone Schmidt telescope (oral), https://irp.cdn-website.com/0502f3c5/files/uploaded/BAASP2021_ABSTRACT_BOOK.pdf

15. I. Eglitis, A. Bule, A. Sokolova, K. Nagainis, Observations of NEO and Main Belt asteroids in 2018-2021 (oral), https://irp.cdn-website.com/0502f3c5/files/uploaded/BAASP2021_ABSTRACT_BOOK.pdf

At the International Conference MAO-200, titled "Actual Questions of Ground-based Observational Astronomy", Mykolaiv, Ukraine , September 27-30, 2021

16. I. Eglitis, K. Nagainis, Dynamics of dome NEO asteroids p. 13 (oral)
<http://www.nao.nikolaev.ua/MAO-200/abstract.html>

17. K. Skirmante, Vl. Bezrukovs, N. Jekabsons, M. Bleiders, M. Nechaeva, Observations of weak galactic OH masers in 1.6GHz frequency band using the Irbene RT32 radio telescope p. 38(oral)
<http://www.nao.nikolaev.ua/MAO-200/abstract.html>