

THE RECTOR OF VILNIUS UNIVERSITY

ORDER

ON THE APPROVAL OF THE DESCRIPTION OF THE PROCEDURE FOR THE GRANT OF APPROVAL (COORDINATION) OF A PROJECT OR PROSPECTIVE ACTIVITY IN THE PROTECTION ZONE OF MOLĖTAI ASTRONOMICAL OBSERVATORY

In accordance with Articles 42(6) and 43(1)(42) of the Statute of Vilnius University, taking into account Article 112(2) of the Republic of Lithuania Law on Special Land Use Conditions,

I hereby a p p r o v e the accompanying Description of the Procedure for the Grant of Approval (Coordination) of a Project or Prospective Activity in the Protection Zone of Molėtai Astronomical Observatory.

APPROVED by Order No. of 2023 of the Rector of Vilnius University

THE DESCRIPTION OF THE PROCEDURE FOR THE GRANT OF APPROVAL (COORDINATION) OF A PROJECT OR PROSPECTIVE ACTIVITY IN THE PROTECTION ZONE OF MOLĖTAI ASTRONOMICAL OBSERVATORY

CHAPTER I GENERAL PROVISIONS

1. The Description of the Procedure for the Grant of Approval (Coordination) of a Project or Prospective Activity in the Protection Zone of Molėtai Astronomical Observatory (hereinafter the 'Description') establishes the procedure for the grant of approval (coordination) by Vilnius University (hereinafter the 'University') on construction, reconstruction or overhaul of structures, construction of holiday camps or installations, construction of electricity networks of 110 kV or higher voltage, installation of external lighting, execution of clear and shelterwood harvest cutting, execution of remodelling of the terrain and other works polluting the atmosphere or resulting in lighting being used at night-time in the protection zone of Molėtai Astronomical Observatory (hereinafter the 'protection zone') (hereinafter the 'approval') by implementing the regulations set out in Article 112(2) of the Republic of Lithuania Law on the Special Conditions for the Use of Land (hereinafter the 'Law').

2. The Description has been prepared in accordance with the Guide on the Limitation of the Effects of Obtrusive Light from Outdoor Lighting Installations CIE 150:2017 of the International Commission on Illumination, CIE.

3. Natural and legal persons who are owners, legitimate managers of a structure, installation, or parcel of land, or their authorised persons, or other persons having the right to perform the activities, and who need the approval (hereinafter the 'person') shall be eligible to apply for the approval.

4. Terms used in the Description shall be understood as they are defined in the Law, the Republic of Lithuania Law on Construction, Republic of Lithuania Law on Territorial Planning, Republic of Lithuania Law on Land, Republic of Lithuania Law on the Protection of Immovable Cultural Heritage, and legal acts implementing them.

5. The Property Management and Service Centre of Vilnius University shall coordinate and be responsible for implementing the provisions of the Description and organising the procedure for the grant of approvals at Vilnius University (hereinafter the 'University').

6. The Description is published on the University's website.

CHAPTER II REQUIREMENTS FOR A PROJECT OR PROSPECTIVE ACTIVITY IN THE PROTECTION ZONE

7. Structures, holiday camps, and installations within the protection zone as well as works performed in the protection zone are considered obstacles that can adversely affect the outcome quality of astronomical observations. Requirements for structures, holiday camps, installations, and executed works within the protection zone are established to avoid interfering with the factual conditions of sky illumination and atmospheric transparency on the sites of astronomical observation due to possible changes in the environment and to protect the astronomical observation equipment located in Molėtai Astronomical Observatory (hereinafter the 'Observatory') from the activity that can adversely affect its functionality, thus ensuring high-quality and reliable data of astronomical observations.

The protection zone of the Observatory is oval-shaped and stretches from the major telescope dome for 4 km to the south, 3.5 km to the east and the west, and for 3 km to the north (Annex 1). The protection zone of the Observatory is divided into two categories according to the standards of the International Commission on Illumination: E0 zone – the territory 1.2–2.2 km around the 1.65 m telescope and E1 zone – the remaining territory. The illumination zones E0 (green line) and E1 (purple

line) corresponding to the standards of the International Commission on Illumination (Annex 2) are marked on the map. The coordinates of the turning points of the boundaries of the protection zone are provided in Annex 3 to the Description.

8. Requirements for the construction of structures, holiday camps, and installations, reconstruction or overhaul of structures and installations in the protection zone:

8.1. the construction of structures is permitted only when reconstruction is done on the foundations registered in the parcel and if the following conditions are met:

8.1.1. the building area of the structure is not increased, the height of residential houses does not exceed 8 m, the height of appurtenant structures of the homestead is up to 6 m, those of the barn and the shed -9 m (the height is calculated from the average altitude of the parcel of land built with buildings up to the highest point of the ridge of the roof), skylights, panoramic windows and doors may not be fitted, easy-to-control lightproof shutters and blinds must be fitted on windows. If the building is in the E0 zone, no windows facing the Observatory may be designed.

8.1.2. Fume-emitting devices may not be installed in the structure or in the territory.

8.1.3. Outdoor lighting may not be installed in the parcel within the E0 zone.

8.1.4. Outdoor lighting is prohibited in private domains in the E1 zone except for public structures in cases where this is necessary for security purposes; lighting must be installed by following these requirements:

8.1.4.1. lighting must be installed in such a way that the total light of all sources of light transmitted on the boundary of the parcel would not exceed 0.1 lux;

8.1.4.2. motion sensor lights (with a timer set up to 5 min.) must be used for lighting;

8.1.4.3. lights installed in the protection zone must meet the requirements specified in Annex 4 to the Description;

8.1.4.4. sources of light must only be installed at the entrances to the building or at the staircases;

8.1.4.5. outdoor recreational lighting (lighting used in sports fields, exhibition zones, cultural objects, yards of buildings, as well as festive decorations, façade lighting, and other sources of light not associated with security) must not be designed, installed, or used;

8.1.4.6. security cameras that require lighting may be equipped with infra-red sources of light with a wavelength exceeding 840 nm.

8.2. Structures may be reconstructed or their overhaul can be performed if the following conditions are met:

8.2.1. the building area and volume of the structure, as well as the number of windows is not increased, skylights, panoramic windows and doors are not fitted, easy-to-control lightproof shutters and blinds are fitted on windows. If the building is in the E0 zone, no windows facing the Observatory may be designed except for cases when a building having valuable properties and included in the Register of Heritage is being reconstructed;

8.2.2. fume-emitting devices may not be installed in the structure or in the parcel.

8.2.3. Outdoor lighting may not be installed in the parcel within the E0 zone.

8.2.4. Outdoor lighting is prohibited in private domains in the E1 zone except for public structures in cases where this is necessary for security purposes; lighting must be installed by following these requirements:

8.2.4.1.lighting must be installed in such a way that the total light of all sources of light transmitted on the boundary of the parcel would not exceed 0.1 lux;

8.2.4.2. motion sensor lights (with a timer set up to 5 min.) must be used for lighting;

8.2.4.3. lights installed in the protection zone must meet the requirements specified in Annex 4 to the Description;

8.2.4.4. sources of light must only be installed at the entrances to the building or at staircases;

8.2.4.5. outdoor recreational lighting (lighting used in sports fields, exhibition zones, cultural objects, yards of buildings, as well as festive decorations, façade lighting, and other sources of light not associated with security) must not be designed, installed, or used;

8.2.4.6. security cameras that require lighting may be equipped with infra-red sources of light with a wavelength exceeding 840 nm;

8.3. The windows of buildings must be covered on cloudless nights during the following:

8.3.1. from October to April - 17:00 to 9:00.

8.3.2. from May to September -21:00 to 6:00.

9. Construction of new streets and roads in the protection zone is prohibited. When reconstructing the already existing streets, external measurements shall not be increased, dust-proof pavement (asphalt, asphalt concrete, etc.) shall be established and lighting shall not be installed. Only low beam headlights may be used in vehicles in the protection zone of the Observatory.

10. When constructing holiday camps and other installations, the following must be ensured:

10.1. outdoor lighting may not be installed;

10.2. installations that may pollute the atmosphere in any way may not be constructed;

10.3. infrastructure installations that must be lit up according to aviation security standards due to their height may not be designed in the zone (e.g.: wind turbines and communication towers as they would be directly visible from the 1.65 m telescope dome).

11. Requirements for the construction of 110 kV and higher voltage electricity networks in the protection zone:

11.1. construction of above-ground electricity networks of 110 kV and higher voltage is prohibited;

11.2. construction of other electricity networks than those indicated in Item 11(1) of the Description may not result in forest clearings facing the telescope domes of the Observatory. It is recommended to construct power lines under the ground.

12. Requirements for installation of outdoor lighting in settlements within the protection zone – outdoor lighting of streets in the protection zone shall not be designed or installed.

13. Requirements for clear and shelterwood harvest cuttings in the protection zone – when executing clear and shelterwood harvest cuttings, the clear-cuts must be replanted and the shelterwood ones restored.

14. Requirements for remodelling the terrain in the protection zone:

14.1. open-pit mining and construction of sites for open-pit mining waste or construction scrap waste are prohibited;

14.2. remodelling the terrain or reconstruction of the landscape by urbanising it is prohibited;

14.3. destruction of the forest and meadow litter by leaving areas of the soil free of vegetation is prohibited.

15. Requirements for performance of other works in the protection zone the performance of which pollutes the atmosphere or requires outdoor lighting at night-time:

15.1. it must be ensured that works polluting the atmosphere with dust and fumes are not performed;

15.2. it must be ensured that works requiring the use of lighting on cloudless nights are not performed during these hours:

15.2.1. from October to April – 17:00 to 9:00.

15.2.2. from May to September -21:00 to 6:00.

CHAPTER III GRANTING THE APPROVAL

16. A person wishing to construct, reconstruct, or overhaul a structure or construct a holiday camp or installation, or construct electricity networks of 110 kV or higher voltage in the protection zone, and wishing to obtain an approval shall provide all the documents by the means of InfoStatyba, the information system for construction permits and construction State monitoring, according to the procedure established by legislation of the Republic of Lithuania.

16.1. A person wishing to perform an activity (install outdoor lighting in settlements, perform clear and shelterwood harvest cuttings, remodel the terrain and perform other works during which the atmosphere is polluted or outdoor lighting is used at night-time) in the protection zone shall submit an application for granting an approval (hereinafter the 'application') indicating the type of a project or activity, works, mechanisms, means, etc. that are planned to be used and enclose the following

documents:a plan of the parcel of land, where a project or activity is planned to be implemented, an extract from the Central Databank of the Real Property Register of the Republic of Lithuania;

16.2. a drawing (map, plan) prepared within the Lithuanian system of coordinates of 1994 with at least one intersection point of the coordination grid, the location of a project or activity, coordinates, and distances to the Observatory;

16.3. a description or a plan of project implementation or execution of prospective activity.

17. A person may submit the application indicated in Item 17 of the Description and the accompanying documents to the University by post or by electronic means. Documents submitted by electronic means must be signed with a qualified electronic signature.

18. Having established that the data provided in the application are incomplete or not all the documents or improperly formalised documents were submitted, the University shall, no later than within 10 working days from the receipt of these documents, notify the person about the missing documents and shall indicate the deadline for addressing these deficiencies in order for the application to be examined further. If a person refuses to submit all required documents or to properly formalise them, the application shall be returned to the person together with submitted documents (except for cases when documents are submitted by electronic means).

19. The University shall make a decision on a person's application to grant the approval no later than within 20 working days from receipt of all the documents specified in Item 17 of the Description. The University shall make a decision after assessing whether the execution of prospective projects and activities in the protection zone that require an approval corresponds to the requirements specified in the Law and the Description and will not interfere with astronomical observations by affecting sky illumination and atmospheric transparency. The approval is not granted for projects and/or prospective activities that do not meet the requirements specified in the Law and the Description.

20. The University shall notify the person about its decision regarding the person's application to grant an approval by post or electronic means within three working days from the decision.

21. The persons specified in Item 3 of the Description, having been granted approvals, must create conditions for the University to control that the requirements for the protection zone of the Observatory are followed.

Annex 1 to the Description of the Procedure for the Grant of Approval (Coordination) of a Project or Activity in the Protection Zone of Molėtai Astronomical Observatory

MOLĖTŲ ASTRONOMIJOS OBSERVATORIJOS APSAUGOS ZONA M 1:50000



Koordinačių sistema — LKS-94 Apsaugos zonos plotas — 3743 ha Apsaugos zonos perimetras — 29 km Annex 2 to the Description of the Procedure for the Grant of Approval (Coordination) of a Project or Activity in the Protection Zone of Molėtai Astronomical Observatory

ILLUMINATION ZONES ESTABLISHED IN THE STANDARDS OF THE INTERNATIONAL COMMISSION ON ILLUMINATION

Entr y No.	Illuminatio n zone	Environme nt	Illumination requirement	Examples of areas
1.	E0**	Protected	Sky suitable for scientific astronomical observations SQM* exceeds 20.5	Scientific astronomical observatories, UNESCO starlight reserves, IDA dark sky places
2.	E1**	Natural	Dark sky SQM* from 20 to 20.5	Relatively uninhabited rural areas, national, regional parks, protected zones of astronomical observatories, IDA buffer zones, etc.
3.	E2	Rural	Low district brightness SQM* from 15 to 20	Sparsely inhabited rural areas, villages, or relatively dark outer suburban locations
4.	E3	Suburban	Medium district brightness	Well-inhabited rural and urban settlements, small town centres, suburbs
5.	E4	Urban	High district brightness	Towns and city centres with high levels of night-time activity

* SQM – dark sky quality measure (DOI:10.1093/mnras/stx145)

** E0 zone must be surrounded by E1 zone

Annex 3 to the Description of the Procedure for the Grant of Approval (Coordination) of a Project or Activity in the Protection Zone of Molėtai Astronomical Observatory

THE COORDINATES OF THE TURNING POINTS OF THE BOUNDARIES OF THE PROTECTION ZONE OF MOLĖTAI ASTRONOMICAL OBSERVATORY

The system of coordinates – State LKS-94			
Point No.	X	Y	
1	6130431.36	596119.01	
2	6130318.59	596092.34	
3	6130300.62	596084.33	
4	6130280.11	596056.78	
5	6130503.78	596086.61	
6	6130879.54	596145.12	
7	6131120.59	596155.99	
8	6131302.92	596166.48	
9	6131423.32	596170.27	
10	6131744.29	596167.02	
11	6131993.95	596157.92	
12	6132374.73	596157.29	
13	6132586.97	596153.89	
14	6133672.55	596113.87	
15	6133867.68	596243.31	
16	6133927.26	596267.92	
17	6133921.19	596282.89	
18	6133939.03	596339.91	
19	6134027.65	596308.64	
20	6134051.07	596400.19	
21	6134166.28	596351.63	
22	6134175.36	596360.81	
23	6134163.12	596409.80	
24	6134164.24	596439.94	
25	6134143.66	596468.64	
26	6134199.60	596521.28	
27	6134218.01	596506.35	
28	6134264.58	596561.24	
29	6134256.79	596567.51	
30	6134237.97	596544.15	
31	6134229.76	596550.76	
32	6134290.42	596613.51	
33	6134344.39	596668.69	
34	6134358.04	596673.55	
35	6134374.07	596683.62	
36	6134386.08	596696.08	
37	6134385.73	596716.58	
38	6134447.13	596788.69	
39	6134475.06	596786.75	
40	6134491.04	596812.15	
41 6134479.03		596827.87	

42	6134559.43	596932.25	
43	6134649.35	597023.99	
44	6134713.52	597099.43	
45	6134688.43	597118.67	
46	6134726.28	597212.78	
47	6134741.57	597204.55	
48	6134756.38	597229.32	
49	6134830.27	597153.76	
50	6134835.18	597166.75	
51	6134847.36	597196.12	
52	6134858.18	597232.92	
53	6134862.58	597261.28	
54	6134874.54	597311.32	
55	6134826.39	597353.06	
56	6134879.02	597454.25	
57	6134920.02	597445.78	
58	6134923.18	597503.30	
59	6134912.17	597522.22	
60	6134937.97	597577.70	
61	6134912.22	597610.10	
62	6134956.67	597696.00	
63	6134988.69	597725.14	
64	6135001.21	597725.66	
65	6135090.98	597970.66	
66	6135044.08	597996.75	
67	6135055.64	598095.59	
68	6135095.62	598135.62	
69	6135136.10	598118.38	
70	6135141.87	598138.92	
71	6135116.60	598169.21	
72	6135105.71	598194.70	
73	6135109.83	598227.63	
74	6135124.60	598245.45	
75	6135186.08	598319.59	
76	6135157.88	598327.13	
77	6135128.22	598364.47	
78	6135121.20	598361.99	
79	6135129.86	598385.30	
80	6135150.94	598440.33	
81	6135161.80	598437.50	
82	6135175.02	598471.03	
83	6135192.10	598491.90	
84	6135222.25	598488.68	
85	6135249.51	598658.05	
86	6135332.84	598656.52	
87	61352/9.50	598795.87	
88	6135224.49	598889.93	
89	6135119.61	599113.62	
90	6135029.62	599375.96	
91	6134835.97	599340.41	

92	6134792.04	599399.47
93	6134844.73	599592.73
94	6134907.19	599575.31
95	6135063.52	599747.68
96	6135125.12	599735.00
98	6135261.02	599937.16
99	6135013.47	600050.97
100	6135116.23	600257.12
101	6135149.42	600271.56
102	6135002.86	600704.44
103	6134938.65	600858.83
104	6134818.92	600882.81
105	6134625.45	600960.54
106	6134650.61	601033.81
107	6134747.78	601223.14
108	6134733.31	601240.68
109	6134699.21	601269.41
110	6134662.35	601276.22
111	6134643.83	601292.75
112	6134622.94	601298.39
113	6134629.05	601408.13
114	6134604.95	601441.73
115	6134542.65	601433.10
116	6134509.09	601467.87
117	6134568.58	601597.65
118	6134555.66	601609.94
119	6134474.91	601615.28
120	6134339.28	601616.16
121	6134423.84	601862.55
122	6134434.42	601885.45
123	6134398.62	601946.08
124	6134270.04	601983.94
125	6134125.63	601985.80
126	6133859.19	602200.81
127	6133817.31	602272.55
128	6133766.77	602264.45
129	6133534.34	602402.82
130	6133590.03	602499.31
131	6133432.93	602528.66
132	6133414.36	602463.09
133	6133090.77	602591.47
134	6133053.17	602566.72
135	6133032.84	602/05.10
136	6132948.56	602/09.41
137	6132677.82	602760.12
138	6132563.96	602849.16
139	6132477.90	602655.24
140	6132142.33	602/17.50
141	6131745.63	602687.72
142	6131324.34	602615.85

143	6131293.26	602670.25	
144	6131243.31	602783.54	
145	6130963.56	602655.83	
146	6130647.71	602550.66	
147	6130383.63	602443.48	
148	6130447.88	602326.54	
149	6130304.20	602258.09	
150	6130306.27	602234.15	
151	6130257.41	602092.46	
152	6130205.92	602110.22	
153	6129862.39	602218.91	
154	6129834.85	601999.17	
155	6129858.65	601999.36	
156	6129761.06	601931.94	
157	6129705.97	601958.48	
158	6129625.80	601983.31	
159	6129547.84	601815.34	
160	6129475.51	601861.95	
161	6129458.24	601959.22	
162	6129478.73	601993.75	
163	6129437.45	602006.42	
164	6129385.59	601891.94	
165	6129410.23	601862.38	
166	6129417.62	601830.36	
167	6129394.67	601768.41	
168	6129369.85	601720.60	
169	6129301.48	601637.81	
170	6129230.55	601475.46	
171	6129156.88	601396.80	
172	6129144.19	601403.61	
173	6129129.30	601418.50	
174	6129116.54	601436.57	
175	6129110.16	601448.27	
176	6129106.97	601454.65	
177	6129024.15	601346.19	
178	6128987.99	601240.40	
179	6128909.95	601263.58	
180	6128883.88	601201.41	
181	6128851.51	601090.13	
182	6128892.66	601099.84	
183	6128903.67	601084.29	
184	6128859.69	601021.75	
185	6128901.93	600984.82	
186	6128819.70	600918.64	
187	6128797.18	600862.82	
188	6128765.32	600830.97	
189	6128737.46	600821.75	
190	6128724.48	600827.35	
191	6128719.96	600800.56	
192	6128715.97	600730.21	
-			

193	6128701.33	600677.81
194	6128688.28	600642.53
195	6128662.87	600515.53
196	6128381.82	600400.66
197	6128378.07	600211.94
198	6128457.07	600275.33
199	6128455.48	600317.80
200	6128509.85	600380.90
201	6128536.04	600367.41
202	6128538.43	600350.34
203	6128524.69	600303.99
204	6128526.85	600206.69
205	6128515.35	600137.16
206	6128470.72	600067.38
207	6128406.00	600059.14
208	6128330.50	599726.12
209	6128290.96	599346.88
210	6128386.20	599127.67
211	6128631.29	599029.35
212	6128583.95	598858.01
213	6128419.90	598856.87
214	6128391.14	598802.79
215	6128308.83	598864.73
216	6128335.22	598684.42
217	6128303.77	598618.51
218	6128370.50	598582.71
219	6128354.88	598435.86
220	6128464.68	598436.16
221	6128504.53	598399.76
222	6128281.26	598205.68
223	6128348.53	598142.94
224	6128452.55	598226.31
225	6128523.84	598035.68
226	6128458.21	597996.07
227	6128665.18	597767.72
228	6128524.93	597655.87
229	6128654.14	597488.17
230	6128760.33	597569.57
231	6128761.78	597560.22
232	6128889.13	597395.11
233	6128979.37	597254.67
234	6129052.00	597250.31
235	6129169.43	597202.26
236	6129174.86	597182.49
237	6129126.63	597075.00
238	6129135.93	597064.54
239	6129138.12	597040.36
240	6129158.36	596999.08
241	6129167.09	596960.98
242	6129295.52	596886.26

243	612	9307.69		596899.52
244	612	9341.60		596901.01
245	612	9358.83		596862.12
246	612	9371.06		596793.40
247	612	9511.71		596813.76
248	612	9503.40		596709.61
249	612	9507.67		596703.00
250	612	9494.63		596614.24
251	612	9498.17		596565.51
252	612	9772.75		596497.76
253	612	9819.94		596464.88
254	612	9823.21		596479.98
255	612	9885.06		596461.07
256	6129888.89			596418.62
257	6130122.05			596279.74
258	6130137.18			596259.64
259	6130181.50			596265.50
260	6130186.09			596241.34
COORDINATES OF THE ZONE CENTRE				
System of coordinates		Coordinates X/Y		Nomenclature of plane- table
State LKS-1994		6132288.29/599	219.01	79-45, 46, 47 80-45, 46, 47

Annex 4 to the Description of the Procedure for the Grant of Approval (Coordination) of a Project or Activity in the Protection Zone of Molėtai Astronomical Observatory

REQUIREMENTS FOR LIGHTS INSTALLED IN THE ZONES OF ASTRONOMICAL OBSERVATORIES

1. The brightness of lights installed in the zones of astronomical observatories shall not exceed 600 lm.

2. All sources of light must be fully covered from the top and the sides by directing the flux of lightdownwards (examples of lights: Annex A1 and Annex A2 to CIE 150:217 standard).

3. Suitable technologies of light sources (nm means a nanometre, which is a unit of length equal to 10^{-9} metres):

3.1. NBA LED – a light-emitting diode (LED), the radiation maximum of which is at 585– 595 nm range of wave length, the half-width spectral interval of radiation shall not exceed 15 nm. It is otherwise known as narrowband amber LED.

3.2. PCA LED – a light-emitting diode (LED) where blue LED light is turned into yellow (amber), the maximum radiation is approximately 600 nm. It is otherwise known as phosphor-converted amber LED.

4. If red lights are installed, they shall not emit rays of spectral interval shorter than 635 nm.

5. Filters must fully cover standard lamps and they shall prevent rays of spectral interval shorter than 635 nm.

DETAILED METADATA			
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