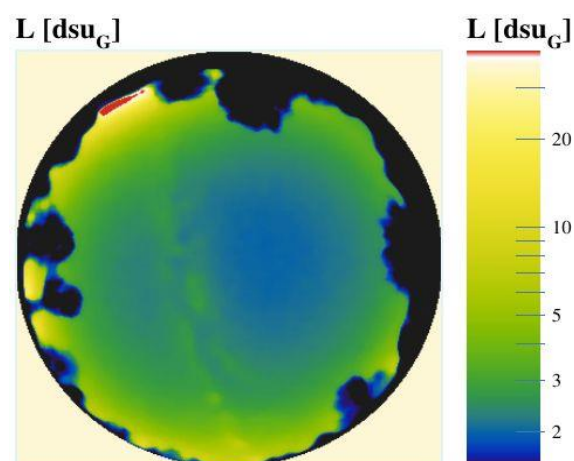
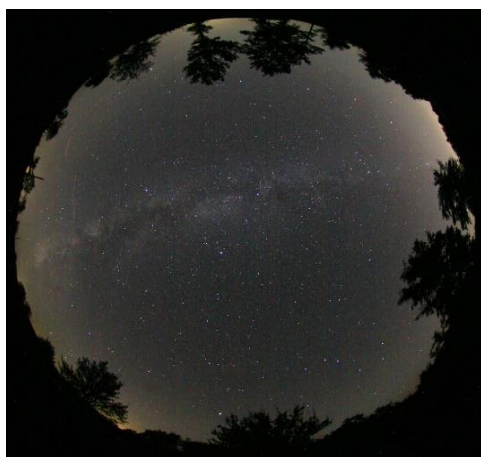


Protocol on the measurement of light pollution

No	9
----	---

Date:	Year:	2023	Month:	8	Day:	13
Time (CET):	Start of measurement:	22	hours	10	minutes	
	End of measurement:	22	hours	30	minutes	
Place of measurement:	Country:	Hungary				
	Location:					
	Name:	Kisgyőr-Mocsolyás				
	GPS coordinates:	47.990416	20.667418			
	Altitude:	340 meters above the sea				
	Description of the place:	at the border of the Bükk National Park				
Meteo conditions:	Temperature °C :	17,18		Humidity:	75%	
	Moon phase:	Last Quarter		Wind:	weak	
	Weather description :	clear sky				
SQM measurement values	Zenit	Polar star	N	S	E	W
	21,15	21,2	21,2	20,9	21,1	20,8
PHOTO measurement values	Camera:	Canon Eos 50D	Aperture:	f 2,8	ISO:	3200
	Lens:	Sigma 4,5 mm	Exposure time:	30 sec	Number of frames:	2

Night photography	Photo after calibration
-------------------	-------------------------



Comment on the photo

Good rural sky, beside the National park. For the processing we used the new DiCaLum software.

Comment on SQM data

Little worst than inside the park, but still eligible for starry-stay park silver tier.

Notes

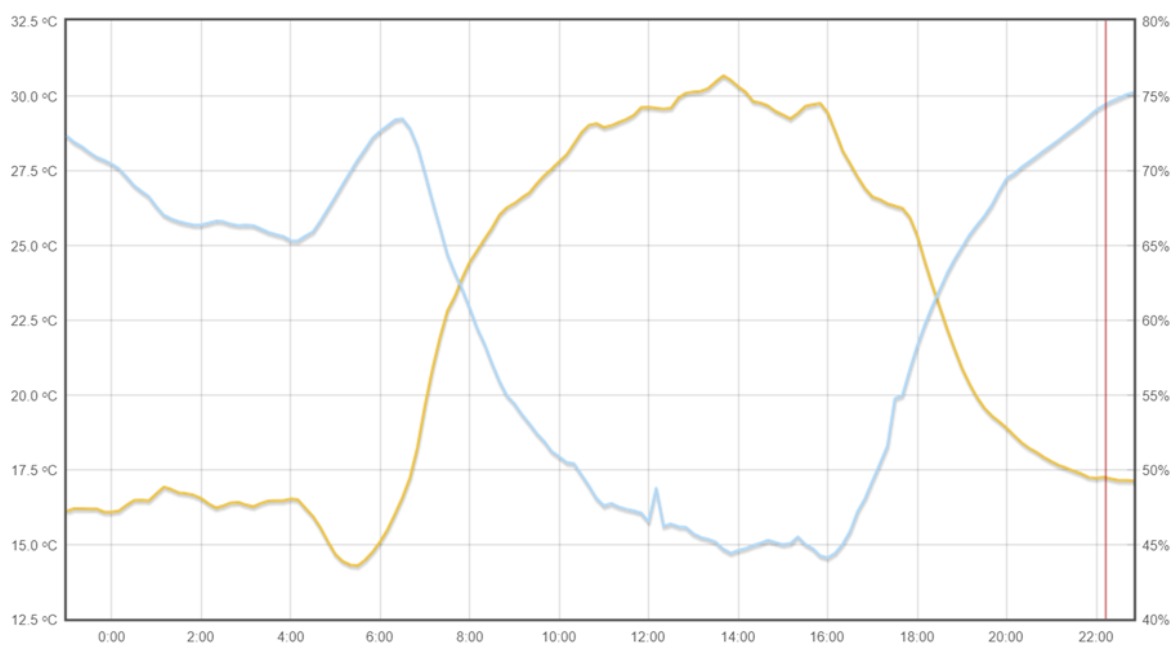
Near to our meteorological station, graphs attached.



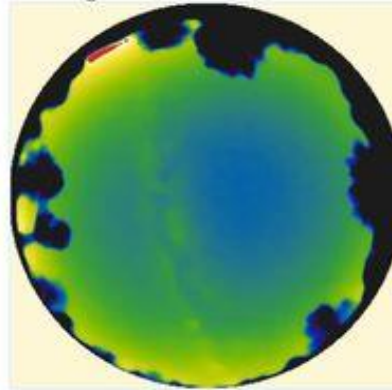
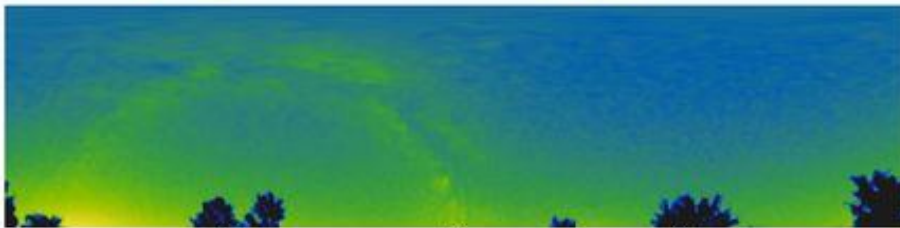
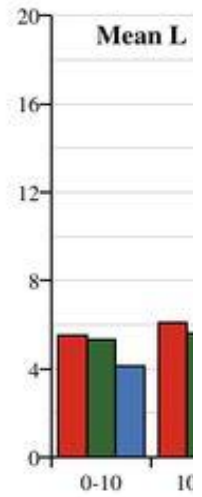
The project is co-financed by the European Union

Vizsgált időpont: 2023-8-13 22:20

	ronaorzo_termeszet_haza hőmérséklet: 17.18 °C
	ronaorzo_termeszet_haza páratartalom: 74.61 %



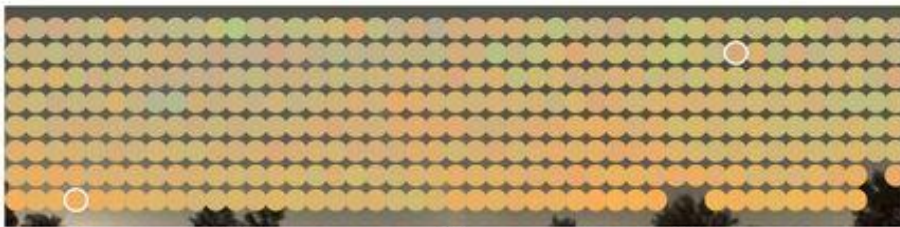
FCE

L [dsu_G]L [dsu_G]

W

S

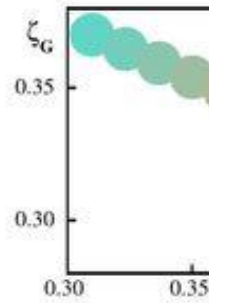
E



W

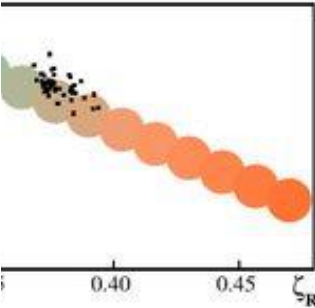
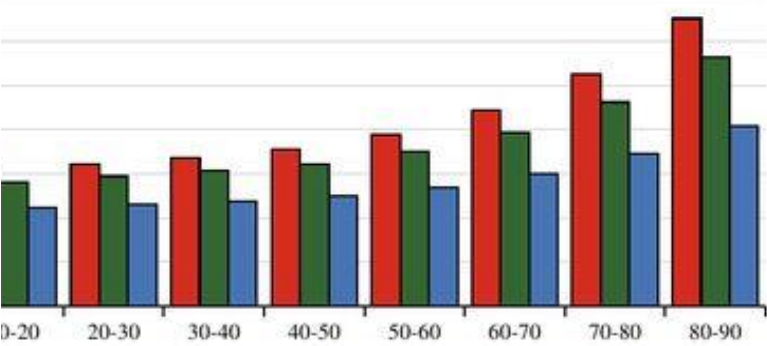
S

E



ance:	Minimum sky radiance:	Maximum radiance:
	4.8 dsu _G	16.77 dsu _G
	0.39 mcd/m ²	1.39 mcd/m ²
s ²	21.15 mag/as ²	19.78 mag/as ²

[dsu] vs. zenith angle [deg]



István Gyarmathy
 Shutter: 30.0 Aperture: 2.8
 S50D + Sigma4.5mm

