

STATUS OF VIDOJEVICA 20 YEARS AFTER ITS FOUNDING

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Content

- Brief history of ASV
- Current status
- Future plans

One-slide history od ASV

2003. Establishment

**2005-2010. Dormitory and
60cm pavilion**

2010. 60cm telescope install.

**2010-2015. BELISSIMA
FP7 EU reg. proj.**



**2015. Temporary pavilion
(very simple roll-roof pavilion)**

2016. 1.4m telescope in temp. pavilion

2017-2018. 1.4m pavilion

2018. Transfer 1.4m telescope

2019. Transfer of the 60cm telescope

2020. 40cm pavilion

2021. solar panels and wind turbines

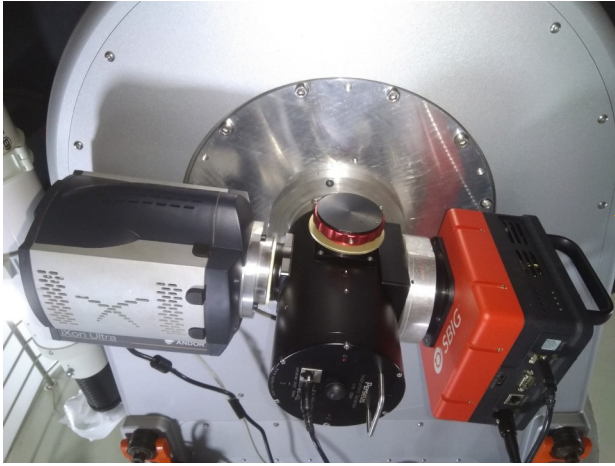


1.4m telescope - Milanković

1. Provided via BELLISIMA FP7 EU regional project
2. Astro Systeme Austria company (ASA)
3. AltAz mount
4. LOMO mirrors, Sankt Peterburg, Russia
5. DDM mount => fast, silent, precise, less friction ...
6. TCS in the fork => compact, resembles to plug-in device
7. 4 ports/stations available; 2 ports with image-derotator in Operation.



1.4m telescope - Milanković



Right Nasmyth port

- Also derotator
- No additional optics
- Inst. Selector w. 4 ports
- Andor ikon897 EMCCD
- SBIG stxl-6303 CCD
- Lucky imaging etc.



Left Nasmyth port

- Derotator
- Focal reducer
- Andor ikonL CCD
- Andor 9 position FW
- B, V, R, I, L, Ha, HaCont, SII
- FOV=14' x 14', ps=0.39"
- Phot./astrom./imaging



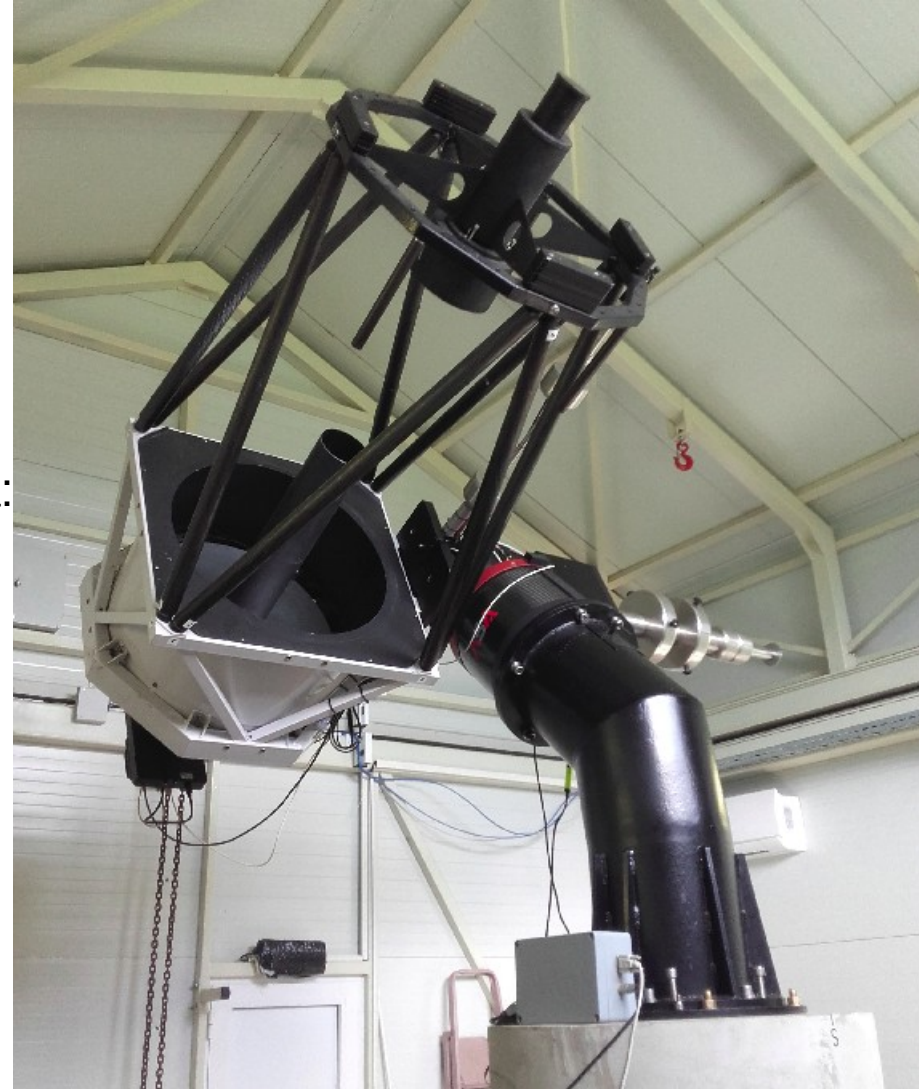


1.4m telescope – Milanković (future plans)

1. Provide more instruments and make observ. more versatile
 - a) Imaging-Spectro-Polarimeter i.e. '3 in 1'
 - b) Spectro-polarimeter i.e '2 in 1'
 - c) Spectrograf / polarimeter
2. Telescope robotization
 - enable observation in queue-scheduling mode taking in account obs. conditions (weather, Moon, altitude etc.).

60cm telescope – Nedeljković

1. Astro Systeme Austria company (ASA)
2. EQ mount (from recently DDM200 from ASA corp.)
3. LOMO mirrors
4. FLI PL230 CCD camera: 2048x2048; 139 μm pixel
(temporarily equipped with SBIG STXL-6303 camera:
3072 x 2048, 9 μm pixels)
5. Optec FW + BVRIL broad band filters
6. FOV(FLI)=15'x15", ps=0.5"
FOV(SBIG)=16'x11", ps=0.31"
7. 0.5x focal red. available
8. Used for photometry/astrometry/imaging



60cm telescope – Nedeljković (future plans)

- To calibrate the telescope for absolute photometry
- distant future plan: to return the telescope to the old 60cm pavilion (requires replacement of the old custom-made dome).

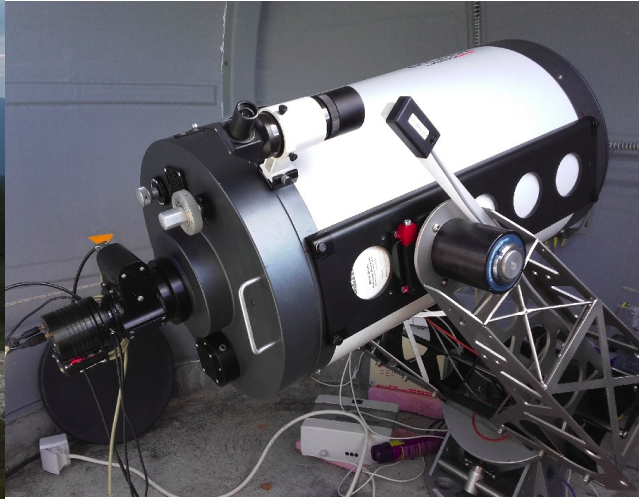


Animations / Movies

40cm telescope – Meade

Telescope

- Meade 40cm provided in 2004
- Schmidt-Cass. Optical system
- It is setup as an EQ system
- EQ wedge and mount from Gemini Telescope Design corp.
(in memoriam Dán András, Hungary)



Instruments

- Now, Starlight Triux CCD
- Later SBIG STXL-6303 with Maxi Starlight FW and BVRI+ugri filters

Pavilion

- ScopeDome company (Poland)
- 3m in diameter
- full automated version.



40cm telescope – Meade (future plans)

- to finish equipping the telescope
- To bring it under the regular observation program



Manpower

Huge accumulation of equipment/infrastruct.

- dormitory
- 4 pavilions
- 3 telescopes
- 3 worm rooms
- 5 CCD cameras + 4 FWs
- 5 instruments (AllSky, Meteostation etc.)
- 5+ personal computers
- internet
- etc.



Manpower

- 1 Manager
- 2 Telescope operators
- 1 Janitor

Manpower (future plans)

We have to:

- Increase the number of telescope operators
working in shifts => extend the current 15 observing nights/mounts
- Engage observatory maintenance staff (at least 3 people)
 - systematic maintenance of telescopes and instruments
 - mechanical maintenance and instrumental adaptation
 - IT and web administrator and public relations manager

Telescope Time Allocation

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Telescope Time Allocation

Time allocation for the telescopes at the Astronomical station Vidojevica is possible. For successful application, we strongly advice to read the [Rule-book](#) first which contains all relevant information regarding time allocation. Application forms can be downloaded [here](#). Characteristics of the telescopes and all the available instruments can be read [here](#). Example of applications in Serbian and English can be found [here](#).

News and Events.

- NEW** The 60cm telescope is available for observations again with FLI PL230 CCD camera, filters set: B, V, R, I and L. The filed of view is 17.7 x 17.8 arcmin. Pixel size is 15.0 μm x 15.0 μm .
- NEW** **Call for proposals for the telescopes time allocation is open from 1st of July to 31th of October 2020.**

Current time:

9 Oct 2020 -- 08:51

Time of measurement:

9 Oct 2020 -- 08:50

Temperature = 4.8 °C

Pressure = 887.7 mb

Humidity = 100%

Dew point = 4.8 °C

Wind speed = 1.3 m/s

Wind direction = W

Highest wind speed = 4.5 m/s

Observation projects

Some current statistics:

- 20+ observational projects per semester
- Good trend for obs. projects to participate in large international observation projects (WEBT, Gaia, LSST, ect.)
- There is an increasing number of ideas about using spectrometer/polarimeter
- 100+ publications in different papers since 2010.

Short summary

- we are close to Vidojevica's 20th birthday
- there is still a lot to do
- there is still a lot to improve

Thank you for attention