Service works at DK154 in November 2022

These works were done by Kamil Hornoch and Miroslav Velen.

- We <u>repaired the unreliably working Cassegrain Flap</u> on 2022 November 18. After investigation we found that the end switch for the opened position was stuck in the triggered position for a while after the end switch was released and its movement was very slow due to significant mechanical friction. We lubricated its mechanical part and no "stuck" of the end switch was observed then, the movement is fast and smooth now. The Cassegrain Flap works well since then.
- 2) We washed the cover glass of the allsky camera on 2022 November 18.
- 3) <u>Batteries (64ks) in the UPS were replaced</u> on 2022 November 20. The batteries are CSB, Model HRL1234WF2FR (TBC).
- 4) We <u>went through the complete Projectsoft checklist</u> during 2022 November 24, see the protocol (Attachement 1).
- 5) We changed the password for vnc access to Win1/2, Lin1 servers on 2022 November 26.
- 6) The DFOSC image data from the 2021-2022 season were copied to an external HDD and we will check them against data downloaded to the dk154-storage1 server. A sufficient space on the data disks of Lin1 will be then cleared for our entire 2022-2023 season.
- 7) We investigated the issue with the dome WiFi access point (AP). The AP did not work when switched on after the power outage in August for a couple days. We simulated the power outage and the AP did not work again as we expected. We waited another 2 hours, but the AP still didn't work. As the same AP model by Siemens was operated in Ondřejov and it had the same issue in the past, we learnt from that experience and so we dismounted and warmed up the AP from both sides (after dismounting its front side plastic cover) using a 500W halogen lamp (for about 5 min from each side). After reconnecting the power the AP started to work immediately and it works well since then.
- 8) We <u>set up a backup AP</u> (purchased by Michael Andersen in Santiago in August) so that it can be used to replace the current AP in the future if needed.
- 9) We lubricated the entrance folding door of the garage on the ground floor of the Danish telescope building so that it moves smoothly. (It did stuck during opening/closing before the lubrication.)
- 10) We <u>used the bigger dome crane</u> (with the nominal maximum load 1600 kg) to lift up the big red trolley stored on the lid of the wooden transport box for the mirror in the garage. We <u>inspected the contents of the transport box</u>. There is a primary mirror handling ring, its metal cover, a red sky baffle lifting bar, a red lifting plate for the primary mirror lifting, and three wooden blocks (30cm high load spreaders). We also found two red-painted tie rods with their bolts on the telescope floor. The crane appeared to work well and smooth.

11) The spare allsky camera (which we sent to LSO in Spring) was stored in the metal cabinet in the server (air conditioned) room.

Kamil Hornoch, Miroslav Velen and Petr Pravec 2022 December 15

Attachements: 1) DK154Checklist_202211.pdf