

Log file - Telescope operations

DO NOT MODIFY THE SCTRUCTURE OF THIS FILE, AS IT IS HANDELED IN `update_daily_fluxes`

This file has been started by Andrea F. Battaglia, with the goal of keeping track of manual or technical telescope operations that may affect the observations. If there is no entry for a particular date means that the nominal solar measurements are done.

THIS DOCUMENT HAS BEEN CREATED ON 03/12/2024, therefore there is no track on particular telescope operations before this date.

For any questions, please contact andrea.francesco.battaglia@usi.irsol.ch

Summary table

Date and time (UT)	Operator	Comments
2024/12/03 12:50	Andrea	Calibration of the pointing offset (noon)
2024/12/03 14:39	Andrea	Calibration of the pointing offset (afternoon). The flux (in the evening) increased of about 50-70%! However, we noticed that in the offsets did not change from noon to afternoon
2024/12/04 09:50	Andrea	Calibration of the pointing offset (morning)
2024/12/09 09:20	Andrea	Calibration of the pointing offset (morning)
2024/12/09 11:33	Andrea	Calibration of the pointing offset (noon)
2024/12/09 14:35	Andrea	Calibration of the pointing offset (afternoon)
2024/12/17 14:00	Andrea	Starting now, we upload the <code>frq99995.cfg</code> file to the automatic procedure. This shows the correct frequencies. Before, we uploaded <code>frq00001.cfg</code> , which is wrong!
2024/12/18 09:20	Maurizio	We had to switch off the LN (RF survey)
2024/12/18 10:15	Andrea	Switch callisto off, for manual pointing (RF survey)
2024/12/19 12:15	Marco	Cleaning of the dish
2024/12/23 --:--	Andrea	Upload the scripts for fixed Thot and Tcold positions. Some tests have been run throughout the day.

Date and time (UT)	Operator	Comments
2025/01/27 09:50	Andrea & Maurizio	1. Switch off/on CALLISTO; 2. Switch Callisto OFF, disconnect N Connector, Switch Callisto ON; Switch OFF Callisto, reconnect N Connector, Switch ON Callisto. From preliminary analysis, it seems that after this operation, the overall signal is increased by 1 digital unit, hence about 10 mV. This may imply that, after this operation, the antenna gain (compared to the measured performed earlier) may be different. This needs to be checked after about a month of observations.
2025/02/12 08:00	CALLISTO	CALLISTO crashed. It is back working on 2025/02/14.
2025/02/25 08:00	Andrea & Philipp	Estimation of the elevation gradient, before the start time of the monitoring measurements.
2025/03/03 14:45	Andrea	Calibration of the pointing offset
2025/03/05 10:30	Andrea & Marco	Interference with the beam path (assessment of the alignment)
2025/03/05 14:30	Andrea	Calibration of the pointing offset
2025/03/10 10:45	CALLISTO SW	The software crashed. The FIT files generated on this day are corrupted
2025/03/11 07:30	Andsrea	Completely rebooted PC and CALLISTO spectrometer. Everything seems to be back running
2025/03/11 08:00	Andrea	Unfolded and folded the motor protection, for taking pictures as requested by Philipp. This day, lower fluxes have been recorded: could it be due to this?
2025/03/11 09:45	Andrea	Calibration of the pointing offset
2025/03/11 15:00	Andrea	After the calibration of the pointing offset at 09:45, the data look really odd. Because of this, I've reset the offset values in place before 09:45.
2025/03/14 14:00	Andrea	IMPORTANT: solar data from 2025/03/11 to 2025/03/14 (included) are useless, because after the calibration of the pointing offset I have not set back CaliProc=True. It has been stayed CaliProc=False for three consecutive days!
2025/03/14 14:15	Andrea	Because of the issue stated just here above, I have back the pointing offset as it was measured on 2025/03/11 at 09:45

Date and time (UT)	Operator	Comments
2025/03/17 09:34	Andrea	In the configsun file I set CaliProc = False and scanning = True. This is done in order to find out the best offset value for the calibration of the pointing.
2025/03/17 14:50	Andrea	Set back CaliProc = True and scanning = False.
2025/03/18 08:45	Andrea	Due to the scanning test of yesterday, I adapted aziref and eleref. I want to check now if the solar flux improved.
2025/03/18 09:45	Andrea	Changed the aziref further.
2025/03/18 10:04	Andrea	In the configsun file I set CaliProc = False and scanning = True. This is done in order to find out the best offset value for the calibration of the pointing. Test-day number 2.
2025/03/18 14:45	Andrea	Implementation of the scanning59 mode in sunpos_AZI_ELE.py. At 08:59, 10:59 and 12:59 CALLISTO does a scan of the sun to assess the pointing of the telescope.
2025/03/19 08:55	Andrea	Manual calibration of the pointing offset: aziref and eleref have been changed.
2025/03/20 07:23	Andrea	Slight changes to the elevations of Tcold and Thot, now to 72 deg (above summer solstice) and -15 deg (further down), respectively.
2025/03/20 12:30	Andrea	The elevation at -15 deg for Thot was out of range! In the morning, no Thot measurements have been taken. Now it has been changed to -14 deg (the minimum elevation is -15 deg).
2025/03/21 08:00	Andrea, Maurizio & Phil	Test of the CALLISTO spectrometer. We run measurements until 10:20 UT.
2025/03/21 13:50	Andrea & Phil	Test MaxRange in both azimuth and elevation.
2025/03/21 14:13	Andrea & Phil	Black mark shifted by 7-8 deg Indication that something has moved. Therefore, we added a new green mark on elevation = 80 deg.
2025/04/01 11:10	Andrea & Marco	We put the protection built by Philipp midway between the telescope and the satellite antenna. It has removed at the end of the day.
2025/04/02 07:40	Andrea & Marco	We put the protection built by Philipp just behind the telescope.
2025/04/02 13:07	Andrea & Marco	The protection has been removed.

Date and time (UT)	Operator	Comments
2025/04/02 15:00	Andrea	According to the solar scans, I changed aziref to 181.2
2025/04/04 06:00	Andrea	The change I've done on 2025/04/02 was wrong, it should have been done on the other direction! I changed aziref now to 182.4
2025/04/10 11:30	Phil	The reflecting papers have been significantly reduced in size. We need to check now whether we still have the 15 minutes drift.
2025/04/10 15:00	Phil	Measurements and other stuff done at the telescope (dish + feed mainly).
2025/04/22 08:46- 09:49	Phil	Measurements and other stuff done at the telescope (dish + feed mainly).
2025/05/05 17:38	Daniel/Marco	Changed aziref from 182.4 to 183.4
2025/05/12 18:19	Daniel	Changed azi offsets of sun raster to -2, -1.5, ..., 2. and give it 2min (instead of 1) to complete