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Abstract: This document presents the Annual Observing Report for 2023, compiled by the LBT Italia team on behalf of the Istituto Nazionale di Astrofisica (INAF). The report provides a detailed and comprehensive summary of the queue observing activities executed at the Large Binocular Telescope (LBT) during the designated period. In alignment with the astronomical observing cycle, the period covered specifically includes the closing phase of the 2023–2024 observing period and the initial observing sessions of the following period. This record documents the utilization of the available focal plane instruments, including MODS1 and MODS2, PEPSI, both LUCI1 and LUCI2, LBC Blue and Red. For each night of observation, data pertaining to the completed scientific programs were logged, providing crucial metrics such as effective observing time and percentages of time lost due to technical issues or adverse weather conditions. The analysis presented here is essential for evaluating the overall efficiency of the telescope's usage by the INAF community. INAF queue

INAF queue observing, 2023 Jan 20 - Jan 21

Observer: Andrea Rossi, Felice Cusano

Telescope Operator: Steve Allanson

Instrument: MODS, LUCI

Summary

After 3 years INAF observers are back on the summit! At the sunset the sky is clear, but the dome is still covered with some ice, we are not observing all the night.

Night duration (12 degree - twilight) 01:40 - 13:10 UT = * 11h* * 30m*

Observing time: 0h 0min (0%)*

Weather time loss: 11h 30min (100%)*

Technical time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Gilli	calib	LUCI1-AO				see logs for details

Severgnini	calib	LUCI1-AO	see logs for details
Tozzi	calib	LUCI1-2	see logs for details
Piconcelli	calib	LUCI1-2	see logs for details
Grazian	calib	MODS1-2	see logs for details
Pentericci	calib	MODS1-2	see logs for details
Mazzolari	calib	MODS1-2	see logs for details
Palazzi	calib	MODS-LU CI	see log for details
Giannini	calib	MODS-LU CI	see log for details

Detailed log of the observation at this link:

<https://docs.google.com/document/d/1xRkws6NUvWWV0PIY-Wgv4WGs8q4jAsY6lVbYCHzp1ko/edit?usp=sharing>

summary of LUCI calib files:

https://drive.google.com/file/d/1r_aab_8yfWljclZsO0oJPKdu9wXkWckT/view?usp=sharing

summary of MODS calib files:

<https://drive.google.com/file/d/1lfnfncphCSbnVRbSrzwzClORSCBt8UeV/view?usp=sharing>

INAF queue observing, 2023 Jan 21 - Jan 22

Observer: Andrea Rossi, Felice Cusano

Telescope Operator: Steve Allanson

Instrument: MODS, LUCI

Summary

At the sunset the sky is clear, but we stay closed for ice

Night duration (12 degree - twilight) 01:40 - 13:10 UT = * 11h* * 30m*

Observing time: 0h 0min (0%)*

Weather time loss: 11h 30min (100%)*

Technical time loss: 0h 0min (0%)*

INAF queue observing, 2023 Jan 22 - Jan 23

Observer: Andrea Rossi, Felice Cusano

Telescope Operator: Steve Allanson

Instrument: MODS, LUCI

Summary

Finally the ice melted from the dome we can open! At the sunset there are clouds and the wind speed is at the limit for opening about 19-20 m/s, we stay closed.

Update at 3:00 UT, still windy with gusts up to 25 m/s, sky completely covered by clouds, we stay closed.

Night duration (12 degree - twilight) 01:40 - 13:10 UT = * 11h * 30m*

Observing time: 0h 0min (0%)*

Weather time loss: 11h 30min (100%)*

Technical time loss: 0h 0min (0%)*

INAF queue observing, 2023 Jan 23 - Jan 24

Observer: Andrea Rossi, Felice Cusano

Telescope Operator: Steve Allanson

Instrument: LUCI, PEPSI

Summary

New snow fall, ice and clouds prevented us to open, we stay closed.

Night duration (12 degree - twilight) 01:40 - 13:10 UT = * 11h * 30m*

Observing time: 0h 0min (0%)*

Weather time loss: 11h 30min (100%)*

Technical time loss: 0h 0min (0%)*

INAF queue observing, 2023 Jan 24 - Jan 25

Observer: Andrea Rossi, Felice Cusano

Telescope Operator: David Gonzalez Huerta

Instrument: LUCI, PEPSI

Summary

At the sunset the sky is clear. The dome is clean of ice but wind and humidity prevent to open the dome.

Night duration (12 degree - twilight) 01:40 - 13:10 UT = * 11h * 30m*

Observing time: h min (0%)*

Weather time loss: 10h 40min (93%)*

Technical time loss: 0h 50min (7%)*

Detailed log of the observation at this link:

https://drive.google.com/file/d/10pBJS3ZubOZbgYXxUO9gUADnQLcMsLeF/view?usp=share_link

INAF queue observing, 2023 Feb 27 - Feb28

Observer: Olga Kuhn

Telescope Operator: Josh Williams

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky is clear, the wind is at the limit, we can open. We had to close for high wind at 8:00 UT.

We open again at 11:00. Some problems during the night with the LUCI1 guider.

Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*

Observing time: 6 h 33 min (62 %)*

Weather time loss: 3 h 03 min (29 %)*

Technical time loss: 0 h 54 min (9 %)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_to t	Images	Notes
Telluric	HD 22859	LUCI1-2	G200-zJspec			for Giannini
Giannini	Gaia21bkw	LUCI1-2	ima-J			
Giannini	Gaia21bkw	LUCI1-2	G200-zjspec			
Giannini	Gaia21bkw	LUCI1-2	G200-zjspec			
Telluric	HD 42853	LUCI1-2	G200-zJspec			for Palazzi
Palazzi	SLSN2020	LUCI1-2	G200-zjspec			star-r-17- J15
Piconcelli	HIP62745	LUCI1-2	G200-zjspec			
Piconcelli	J121549.81-00343 2.1	LUCI1-2	G200-zjspec	0.25h+0. 25		Complete d
Piconcelli	J124551.44+01050 5.0	LUCI1-2	G200-zjspec	450s+45 0s		50% done !
Piconcelli	J124551.44+01050 5.0	LUCI1-2	G200-zjspec			Remainin g data - complete d !
Piconcelli	HIP62745	LUCI1-2	G200-zjspec			

Detailed log by Ester, Felice, Andrea and Simona at this link:

<https://drive.google.com/file/d/1GEqRg9-CXR4brpNx2-r5gLvucmOsGj8H/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1yrkuKTO17-EsoLGvnhToBM1-Y7N5_81S/view?usp=sharing

Summary of LUCI calib files:

<https://drive.google.com/file/d/1Ko9aSEWBcusAmPFCHiT9uqbF5A6yV6DI/view?usp=sharing>

Summary of MODS calib files:

https://drive.google.com/file/d/1DP8kZK7xC_QrMEhgkev8n-8_vWApQF_G/view?usp=sharing

INAF queue observing, 2023 Feb 28 - Mar 01

Observer: Olga Kuhn

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel. At sunset the cirrus and wind guts above 22 m/s force us to keep the dome closed.

Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*

Observing time: 0 h 00 min (0%)*

Weather time loss: 10 h 30 min (100%)*

Technical time loss: 0 h 00 min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Calibrations		MODS1+2				
Calibrations		LUCI1+2				

Detailed log by Ester, Felice, Andrea and Simona at this link:

Summary of LUCI calib files:

https://drive.google.com/file/d/1_ZLf67wMDYiPDitEQZ0XjbJTkcRuWfKE/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/1XAI8AWSGB3-AvDGuACcB3z3W2X7u9gmd/view?usp=sharing>

INAF queue observing, 2023 Mar 01 - Mar 02

Observer: Dave Thompson

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At sunset the wind guts above 22 m/s and snow force us to keep the dome closed.

Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*

Observing time: 0 h 00 min (0%)*

Weather time loss: 10 h 30 min (100%)*

Technical time loss: 0 h 00 min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
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Calibrations LUCI1+2

Detailed log by Ester, Felice, Andrea and Simona at this link:

Summary of LUCI calib files:

https://drive.google.com/file/d/1jpTvCFw_z0EDmPvGu-Plmn26khmtZx6Y/view?usp=sharing

INAF queue observing, 2023 Mar 02 - Mar 03

Observer: Dave Thompson

Telescope Operator: Steve Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky seems clear, maybe a little but foggy, but the all sky camera is frozen and this prevents to have a real idea of the sky. In any case we have high humidity (above 90%) and wind gusts of 26 m/s. Steve Allanson sent an email declaring that we cannot open because the weather conditions prevents any safe roof access and a clear evaluation of the situation. We have to call the night!

Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*

Observing time: 0 h 00 min (00 %)*

Weather time loss: 10 h 30 min (00 %)*

Technical time loss: 0 h 00 min (00 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
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Detailed log by Ester, Felice, Andrea and Simona at this link:

https://drive.google.com/file/d/1nFNzEbLjGaiA2xXAEHr6w4x_OuhZNSw/view?usp=sharing

INAF queue observing, 2023 Mar 03 - Mar 04

Observer: Dave Thompson

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel. At sunset there some cirrus but we can open.
 Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*
 Observing time: 10 h 15 min (98%)*
 Weather time loss: 0 h 00 min (0%)*
 Technical time loss: 0 h 15 min (2%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_to t	Images	Notes
Telluric	HIP 39929	LUCI1+2	G210 H			for Grazian
Grazian	SDSSJ0918	LUCI1+2	G210 H	3.7h/3.5h		we took 2 more exposure due to some clouds, seeing 0.8"-1"
Telluric	HIP35818	LUCI1+2	G200 zj			for Piconcelli
Piconcelli	J0947	LUCI1+2	G200 zj	0.5h/0.5h		seeing ~0.9"
Telluric	HIP56736	LUCI1+2	G200 HK			for Piconcelli
Piconcelli	J1025	LUCI1+2	G200 HK	1.5h/1.5h		seeing ~1" and stable
Telluric	HIP50660	LUCI1+2	G210 K			for Grazian - taken two sets with different exposure times

Telluric	HIP50660	LUCI1+2	G210 H			for Grazian - taken two sets with different exposure times
Grazian	SDSSJ1110	LUCI1+2	G210 K	0.83h+0.83h		seeing ~0.8"
Grazian	SDSSJ1110	LUCI1+2	G210 H	0.83h+0.83h	luci1.20230304.0105.fits-luci1.20230304.0114.fits / luci2.20230304.0117.fits-luci2.20230304.0126.fits	The science files have the OBJECT keyword as NOTARGET (without the target name) - seeing ~1.0"
Telluric	HIP68868	LUCI1+2	G200 zj			for Piconcelli
Piconcelli	J1513	LUCI1+2	G200 zj	0.25h+0.25h		seeing ~0.7"
Rossi	GRB230205A	MODS1+2	Dual grating	1h+1h		seeing ~0.7"
Standard	HZ44	MODS1+2	Dual grating			for Rossi

Detailed log by Ester, Felice, Andrea and Simona at this link:

<https://drive.google.com/file/d/1gs-N7GA1E2X5-fqdlGaS5PhNIUabl2rP/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1K2c2WgAkAkVEMrcXg6GB77vTLwkvB3N/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1K2c2WgAkAkVEMrcXg6GB77vTLwkvB3N/view?usp=sharing>

INAF queue observing, 2023 Mar 04 - Mar 05

Observer: Dave Thompson

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano
Instrument: MODS, LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel. At sunset the sky is clear, we can open, but the wind is at limit.

During the night we stay closed for high wind for about 4.5 hours in total.

Night duration (12 degree - twilight) 02:10 - 12:40 UT = * 10h* * 30m*

Observing time: 5 h 45 min (55%)*

Weather time loss: 4 h 45 min (45%)*

Technical time loss: 0 h 0 min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Belladitta	mods.9.j0309	MODS1-2	red grating	0.89h		stopped after 1 and 1/3 exposures for high wind
Giannini	Gaia21bkw	MODS1-2	dual grating	0.5h		
Decarli	PSO182.77	MODS1-2	dual grating	0.33h		
Grazian	SDSSJ1110	MODS1-2	dual grating	1.5h		stopped after 0.75 h for variable seeing (1"-2")
Standard	G191-B	MODS1-2	dual grating			
Standard	Feige 34	MODS1-2	red grating			
Standard	H44	MODS1-2	dual grating			
Piconcelli	J1639	LUCI1-2	G200-HKspec	0.5h		
Piconcelli	J1621	LUCI1-2	G200-HKspec	0.5h		
Telluric	HIP87643	LUCI1-2	G200-HKspec			
Telluric	HIP7002	LUCI1-2	G200-HKspec			

Detailed log by Ester, Felice, Andrea and Simona at this link:

<https://drive.google.com/file/d/1CmBmYxo-UcE1yHvgJUGKHuyXG3biYCMb/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1S-uZFRThaoH5ZzaXYnmChP7SO-mggnuS/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1F4hRlRqRNZI0CUE5dnkICn8ZQ_k7c8vt/view?usp=sharing

INAF queue observing, 2023 Mar 27 - Mar 28

Observer: Olga Kuhn

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: MODS

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky is clear we can open. A good night with no major issues.

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h* * 30m*

Observing time: 9 h 25 min (100%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: h 5 min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Calibrations		MODS1+2				
Standard	Feige 34	MODS1-2	dual grating			
Mazzolari	id774	MODS1-2	dual grating	2.5h/2h		completed , good seeing 0.8", done 1 exp more to compensate for MODS1 low flux
Grazian	J1110	MODS1-2	dual grating	108m		seeing ~1" 3exp completed
Severgnini	NGC4509	MODS1-2	dual grating	20m		good seeing ~0.9", part 1 completed
Severgnini	Mrk777	MODS1-2	dual grating	90m		good seeing ~0.7", == completed ==
Severgnini	NGC4509	MODS1-2	dual grating	60m		DIMM<1" part 2 completed
Severgnini	Mrk224	MODS1-2	dual grating	20m		good seeing ~0.6" part 1 completed

Severgnini	Mrk224	MODS1-2	dual grating	20m	good seeing ~0.6" part 2 completed
Severgnini	Mcg+10	MODS1-2	dual grating	60m	good seeing ~0.7" completed
DeCarli	PSO222. 31	MODS1-2	red grating	20m	seeing 0.7-0.9"==comple ted ==
Standard	BD33	MODS1-2	red grating		

Detailed log by Felice and Andrea at this link:

https://drive.google.com/file/d/1hm9ovLe_gmLbNhpCaSv_DmcpPjZ5doB/view?usp=sharing

Detailed log by O. Khun at this link:

https://drive.google.com/file/d/1zCXw-lZrwrzi8OK-zHAd4IBtTfRo1n_U/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/15wV2GYa-Qstc3Qe6x9IbilU7VuKg5EOq/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1OroYLDdO64F6ORzTd5FAJ6w8uo5dmVir/view?usp=sharing>

INAF queue observing, 2023 Mar 28 - Mar 29

Observer: Olga Kuhn

Telescope Operator: D. Gonzalez Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky is clear we can open, At about 08:30 we had to switch to MODS because the wind prevented us to observe

most of the LUCI high priority targets. We closed at 11:20 for high wind.

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h * * 30m*

Observing time: 7 h 0 min (73%)*

Weather time loss: 1 h 0 min (11%)*

Technical time loss: 1 h 30 min (16%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Calibrations		MODS1+2				
Calibrations		LUCI1+2				

Gilli	QSO	LUCI1+AO	Ks	1.5h	seeing 1", stop for high wind facing the target
Standard	HD75555	LUCI1-2	G210-K and H		for La Barber; but we can not go to science target for the wind
Telluric	HIP65599	LUCI1-2	G200-HKspec		for Piconcelli
Piconcelli	J1359	LUCI1-2	G200-HKspec	1.25h	seeing 0.9", stop for high wind facing the target
Standard	Hz44	MODS1-2	dual and red grating		
Severgnini	Mrk799	MODS1-2	dual grating	0.33h	completed
Severgnini	Mrk66	MODS1-2	dual grating	0.33h	only done acq_1 e sci_1, stopped for high wind

Detailed log by Felice and Andrea at this link:

https://drive.google.com/file/d/13OLH8lvSanF-_EIParnbxMcMe8lo4rYB/view?usp=sharing

Detailed log by O. Khun at this link:

<https://drive.google.com/file/d/1X2EVzVIJpNC6pfWiKyyxoa-fvEN1HKr/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/19DI7KF1i_JNzQ7Wk05rw9yqEcyUozMkx/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/17xui9ryCv8Hu5vbbCVGAelsHapRTUlyp/view?usp=sharing>

Summary of LUCI calibration files: (note La Barbera calibration are not good, see next night)

<https://drive.google.com/file/d/11HUrujhAFrUUDrOWuLlaH0teFGM7CNiz/view?usp=sharing>

Summary of MODS calibrations files: (note the files taken at the end of the night after UT 13 are not good)

https://drive.google.com/file/d/1wuDZ_G3Ad_yOIS0y35f6W1hykmUSgdCt/view?usp=sharing

-- EsterMarini - 30 Mar 2023

INAF queue observing, 2023 Mar 29 - Mar 30

Observer: Olga Kuhn

Telescope Operator: D. Gonzalez Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano and Roberto Speziali

Instrument: LUCI

Summary

The observations have been performed in C-19 modality for the first part of the night.

At the sunset the sky is clear but the wind is above the limit, we stay close. Plus, LBT personnel is troubleshooting TCS issues that prevents us to open.

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h* * 30m*

Observing time: 0 h min (0 %)*

Weather time loss: 09h 30min (100%)*

Technical time loss: 0 h 0 min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Calibration		MODS1-2				
Calibration		LUCI1-2				luci2.20230330.0048-64.fits not good

Detailed log by O. Khun at this link:

<https://drive.google.com/file/d/15IBGNQ1ofMnxKGIqFR3DJiaz4nM65M6/view?usp=sharing>

Summary of MODS calibrations files:

<https://drive.google.com/file/d/1a64J0koLbyLRMkdttn6DyaSTIleTpluE/view?usp=sharing>

Summary of LUCI calibrations files:

https://drive.google.com/file/d/1G5cdVfjUi_eV9Q1wUu3Ht0eMfgeip-IS/view?usp=sharing

INAF queue observing, 2023 Mar 30 - Mar 31

Observer: Olga Kuhn

Telescope Operator: S. Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the weather is bad with high wind (22m/s and gust up to 35 m/s) and high humidity (about 98%). The all sky camera is covered by a layer of snow.

During the night the wind decreased, but the humidity remained high (93-94%), we stayed closed.

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h* * 30m*

Observing time: h min (0%)*

Weather time loss: 9 h 30 min (100%)*

Technical time loss: h min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
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Detailed log by Simona, Ester, Felice at this link:

<https://drive.google.com/file/d/11JfeToQSb5JgMBb3JaN7PI8k4VCx2nYL/view?usp=sharing>

INAF queue observing, 2023 Mar 31 - Apr 1

Observer: Olga Kuhn

Telescope Operator: D. Gonzalez Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky has some cirrus but otherwise ok , we open .

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h* * 30m*

Observing time: 9h 15min (97.4%)*

Weather time loss: 0h 0min (%)*

Technical time loss: 0h 15min (2.6%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
STD	HD 75555	LUCI1+2	G210K and H			for La Barbera
Telluric	HD 98989	LUCI1+2	G210 K			for La Barbera
La Barbera	M87	LUCI1+2	G210 K			cirrus with ~0.5 mag of extinction
Telluric	HIP 62745	LUCI1+2	G210 K			for La Barbera
Nicastro	Mask-ID5 01010	MODS1+2	dual grating	1.38/2h		stopped at 2/3 of the 3rd exposure

Grazian_16_back up	Q1048414	MODS1+2	dual grating	0.17/0.17 h	seeing ~0.7"
Grazian_16_back up	Q100741	MODS1+2	dual grating	0.25/0.25 h	seeing ~0.8"
Decarli	PSO155.3 3	MODS1+2	red grating	0.33/0.33 h	seeing ~0.8"
Decarli	PSO182.7 4	MODS1+2	red grating	0.67/0.33 h	we take 2 more exp due to clouds, seeing ~0.8"
Decarli	PSO190.3 7	MODS1+2	red grating	0.67/0.33 h	we take 2 more exp due to clouds, seeing ~0.8"
Decarli	PSO195.6 3	MODS1+2	red grating	0.67/0.33 h	we take 2 more exp due to clouds, seeing ~0.8-1.4", lost ~2 mag in one exp
Decarli	PSO227.0 5	MODS1+2	red grating	0.67/0.33 h	we take 2 more exp due to clouds, seeing ~0.8", lost ~2 mag in one exp
Severgnini	Mrk66	MODS1+2	dual grating	0.33/0.33 h	_2 done, _3 done, seeing~0.8"
STD	BD33	MODS1+2	red grating		for decarli

STD	BD33	MODS1+2	dual grating	high background in the last two exp
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Detailed log by Felice and Andrea at this link:

<https://drive.google.com/file/d/1ZHfwOIEOgISpW5kqVE-b38wsL0tAIDf/view?usp=sharing>

Detailed log by O. Khun at this link:

<https://drive.google.com/file/d/1Vwet9YrrqlaR3uB2EFLt9IOwjPjyNFE/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1wjL1zBEXvNKV3sHGLYmn4c_Hy8qMBu/view?usp=sharing

INAF queue observing, 2023 Apr 1 - Apr 2

Observer: Olga Kuhn

Telescope Operator: D. Gonzalez Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi and Simona Paiano

Instrument: LUCI

Summary

These observations have been performed by LBT Italian observers connected from Italy with the support of LBTO personnel.

At the sunset the sky is clear, we can open. Stable condition we can perform AO observations at the beginning of the night.

Night duration (12 degree - twilight) 02:40 - 12:10 UT = * 09h* * 30m*

Observing time: 8 h 20 min (88%)*

Weather time loss: 0h 0min (%)*

Technical time loss: 1 h 10 min (12 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Gilli	QSO	LUCI1+AO		Ks 1.5h		
Gilli	FRII	LUCI1+AO		Ks 0.9h		changed the pos angle during observations
STD	HD75555	LUCI1+2	G210 H			
Tell	HIP62745	LUCI1+2	G210 H			
La Barbera	M87	LUCI1+2	G210 H	1.45/1.45h		

La Barbera	M87	LUCI1+2	G210 H	0.25/1.45 h	done 5 offsets out of 29
Tell	HIP62745	LUCI1+2	G210 H		not finished the script because it set (wasted time do to LUCI1 error)
Tell	HIP71172	LUCI1+2	G210 H		a bit far from the science target and maybe high background in the last exps

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1NNLpOzxBmAXIkDXj4I5JI8wdVpZ7I6Ze/view?usp=sharing>

Detailed log by O. Khun at this link:

https://drive.google.com/file/d/1sa3b_s3Gj5OTRCwTuH0I8EqLPfEPqrok/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1tDyqols3zN01bhk0YdiGarALSuoWDLFT/view?usp=sharing>

INAF queue observing, 2023 Apr 17 - Apr 18

Observer: Felice Cusano and Olga Kuhn

Telescope Operator: Steve Allanson

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: LUCI-BINO

Summary

These observations have been performed by Felice Cusano connected from Italy with the support of Ester Marini, Simona Paiano and the LBTO personnel.

At sunset the sky is clear and the wind is well below the limit. We open.

Night duration (12 degree - twilight) 02:50 - 11:50 UT = * 9h* * 00m*

Observing time: 8 h 30 min (94.4 %)*

Weather time loss: 0 h 30 min (5.6 %)*

Technical time loss: 0 h 0 min (0 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
STD	HD106038	LUCI1+2	G210+K			for La Barbera

STD	HD106038	LUCI1+2	G210+H		for La Barbera
STD	HD106038	LUCI1+2	G200+zJ		for La Barbera
Telluric	HIP62745	LUCI1+2	G210+K		for La Barbera
La Barbera	M87	LUCI1+2	G210+K	1.45/1.45h	seeing ~ 0.8-1" , K band completed
Telluric	HIP62745	LUCI1+2	G210+K		for La Barbera
Telluric	HIP62745	LUCI1+2	G210+H		for La Barbera
La Barbera	M87	LUCI1+2	G210+H	1.45h/1.45h	seeing ~1" , H band completed
Telluric	HIP62745	LUCI1+2	G210+H		for La Barbera
Telluric	HIP71172	LUCI1+2	G200+zJ		for Bisogni
Bisogni	W5	LUCI1+2	G200+zJ	1.66/1.33h	seeing ~1", we took 2 exp more (first of them is not useful) since we had the LUCI1/AG w patrol field issue
Severgnini	Mrk219	MODS1+2	dual grating	0.33/0.66h	only *_1 done. Seeing is to high for this program ~1.1-1.5"

STD	HZ44	MODS1+2	dual grating		only 2/3 exposures done, since we close for high particle counts
STD	HZ44	MODS1+2	red grating		for Ighina and Decarli
Decarli	PSO254.7 4	MODS1+2	red grating		seeing ~1.2"
Ighina	PSJ1645	MODS1+2	red grating	1.5/2h	done with 1" slit, seeing variable see the log for details. Took 3 out of 4 exps for high background
calib	arc and flat	LUCI1+2	G200+zJ		slit 1"
calib	arc and flat	LUCI1+2	G210+H and K		slit 0.5"
calib	imag flat	LUCI1+2	H and K		
calib	arc, flat and slitless	MODS1+2	dual, red		

Detailed log by Ester and Felice at this link:

<https://drive.google.com/file/d/11A3hCByxqJRCebYcFvF4xMG8teKCRcFh/view?usp=sharing>

Detailed log by Olga Kuhn at this link:

https://drive.google.com/file/d/12pZwZtHXGgaZnpVeXMdfOKE_aZZA7IFs/view?usp=sharing

Summary of LUCI science files:

https://drive.google.com/file/d/1FXyxBCFb5fxhMmLi_OzRzBLDqVzz8CCM/view?usp=sharing

Summary of LUCI calib files:

<https://drive.google.com/file/d/1b23BSya0zvTHd6YdP5dnWUFQdWBSIK5M/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1pcuOXNRnALmnmLPyN8vtvOIK24_5uVuL/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/1V7vDpJrEg7u8Ku0Lq9-fvI3vweGxZxgu/view?usp=sharing>

INAF queue observing, 2023 Apr 18 - Apr 19

Observer: Felice Cusano and Olga Kuhn

Telescope Operator: David Gonzales Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: LUCI-BINO

Summary

These observations have been performed by Felice Cusano connected from Italy with the support of Ester Marini, Simona Paiano and the LBTO personnel.

At sunset the sky is clear, we open and we start with LUCI-BINO. We have pointing restriction due to wind, we can not point S-W. At 8:40 closing for wind.

Night duration (12 degree - twilight) 02:50 - 11:50 UT = * 9h* * 00m*

Observing time: 5 h 30 min (61 %)*

Weather time loss: 2 h 30 min (28 %)*

Technical time loss: 1 h 0 min (11 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
STD	HD106038	LUCI1+2	G200+zJ			for La Barbera
Telluric	HIP62745	LUCI1+2	G200+zJ			for La Barbera
La Barbera	M87	LUCI1+2	G200+zJ	3.6/3.6h		seeing ~ 0.8-1.3", done twice + a half, completed
Telluric	HIP62745	LUCI1+2	G200+zJ			for La Barbera
STD	HZ44	MODS1+2	dual grating			for Severgnini
STD	HZ44	MODS1+2	red grating			for Decarli and Ighina
Decarli	PSO153.35	MODS1+2	red grating	0.33/0.33h		seeing ~ 1"
Severgnini	Mrk219	MODS1+2	dual grating	0.33/0.66h		seeing ~ 1", we did the first pointing only because we closed for high wind
calib	dark	LUCI1+2				
calib	arc and lamp	LUCI1+2	G200ZJ			slit 0.5"

Detailed log by Ester and Felice at this link:

https://drive.google.com/file/d/1nunwaR-BoFrwDF2dhiC_duXBUD_vVVBU/view?usp=sharing

Detailed log by Olga Kuhn at this link:

https://drive.google.com/file/d/1IVFiJNNSgThfUyTQn_DroIcF7rHb6G-r/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1fDMdNSefXK8e7rNbJZ9ae4A9FHjAUbGz/view?usp=sharing>

Summary of LUCI calib files:

<https://drive.google.com/file/d/1CICYnTnwLuFEUPhIBppAtCL4JW2N-jlw/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1C5dchvEkywlsHojuTumtfQ7ei8GTfEd5/view?usp=sharing>

INAF queue observing, 2023 Apr 19 - Apr 20

Observer: Felice Cusano and Olga Kuhn

Telescope Operator: David Gonzales Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: LUCI-BINO

Summary

These observations have been performed by Felice Cusano connected from Italy with the support of Ester Marini, Simona Paiano and the LBTO personnel.

At sunset the sky is cloudy and we start with MODS1+2.

Night duration (12 degree - twilight) 02:50 - 11:50 UT = * 9h* * 00m*

Observing time: 7 h 0 min (78 %)*

Weather time loss: 1 h 40 min (18 %)*

Technical time loss: 0 h 20 min (4 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Decarli	PSO119.4 2	MODS1+2	red grating	1h/0.5h		variable seeing up to ~2" , 3 more exposures due to clouds, 3mag of ext
Decarli	PSO186.1 9	MODS1+2	red grating	0.66/0.33 h		variable seeing with peaks at ~2", 1.5mag of ext so we took 2 more exps

Ighina	PSJ1505	MODS1+2	red grating	3h/2h	seeing variable between 1" and 2", we took two exposures more. Seeing 0.8-1" in the last two
Ighina	PSJ1645	MODS1+2	red grating	1h/1h	seeing ~ 0.8-1.1", we finished the script started the previous nights and we also took one more exposure (the seeing was bad the previous time)
Ighina	PSJ1634	MODS1+2	red grating	1.3h/1.3h	seeing ~ 0.8-1"
Ighina	PSJ1802	MODS1+2	red grating	1.4h/1.4h	seeing variable, during the first part ~ 1.2", then better; last exposure could have an higher background
calibration	bias	MODS1+2			
calibration	slit flat	MODS1+2	red and dual		slit 0.8", 1"

Detailed log by Ester, Felice and Simona at this link:

https://drive.google.com/file/d/1_ycSpXEQbxn3HIoAKgGbr3CI-AqAJEgS/view?usp=sharing

Detailed log by Olga Kuhn at this link:

<https://drive.google.com/file/d/1IL1BvW3QsEmqJ1KMlgtPuSRZfvuury2/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1DwcBZzjAugG8Hnx5IXPaLpwFPoKUyK70/view?usp=sharing>

Summary of MODS calib files:

<https://drive.google.com/file/d/1H4mhfqUTvcwgvbz85Qspn5jFS2qQ0SpA/view?usp=sharing>

INAF queue observing, 2023 Apr 20 - Apr 21

Observer: Olga Kuhn

Telescope Operator: David Gonzales Huerta

Astronomers from Italy: Felice Cusano, Ester Marini, Andrea Rossi, Simona Paiano

Instrument: MODS-BINO, LBC

Summary

These observations have been performed by Olga Kuhn from LBTO, Andrea Rossi and then Felice Cusano connected from Italy with the support of Ester Marini and Simona Paiano and other LBTO personnel.

At sunset the sky is clear and wind is from NW but within constraints. We start with MODS1+2. We switch to LBC to complete Belladitta, but conditions were not good enough for this program, so we had to go back to MODS.

Night duration (12 degree - twilight) 02:50 - 11:50 UT = * 9h* * 00m*

Observing time: 9 h 0 min (100 %)*

Weather time loss: 0 h 0 min (0 %)*

Technical time loss: 0 h 0 min (0 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
STD	Feige34	MODS1+2	red grating			for Ighina and Decarli
STD	Feige34	MODS1+2	dual grating			for Mazzolari and Severgnini
Mazzolari	ID774	MODS1+2	dual grating	2.5h/2h		this was done for the problem occurred on MODS1. We took one more exposure due to bad seeing during the first and second one
Belladitta_L BTB	J1037	LBC-BINO		0.6h		has to be done again, FWHM on image ~2"

D'Onofrio	NGC4307	LBC-BIN O		0.5h/1.5h	done NGC4307_g_r_1. xml with fwhm=1", second obs stopped for high seeing
Decarli	PSO0234 .55	MODS1 +2	red grating	2X(0.16h+0. 16h)	Seeing~1.3" double exp time for variable seeing completed
Decarli	PSO0250 .58	MODS1 +2	red grating	(0.25h+0.25h)	Seeing~1"
Decarli	PSO0262 .67	MODS1 +2	red grating	(0.25h+0.25h)	Seeing~1"
Ighina	PSJ1614	MODS1 +2	red grating	(0.6h+0.6h)	Used slit = 1" , Seeing~1" completed
calibration		MODS1 +2	dual grating		slit 1.2"
calibration	Bias	LBC-Bin o			

Detailed log by Andrea, Ester, Felice and Simona at this link:

https://drive.google.com/file/d/1BEHfNokHN3HgdMEhtsHT391WrVeySt_e/view?usp=sharing

Detailed log by Olga Kuhn at this link:

<https://drive.google.com/file/d/1I9xv5NoCnTALmDGOYTXAvuq0iKOnaXQI/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1s1sRwl4JPHBTLihGLbG9RDAX33pR_rcw/view?usp=sharing

Summary of MODS calib files:

https://drive.google.com/file/d/1ixHtY8Ve_WdfMrSCQIOXFIFYVdyyHVI5/view?usp=sharing

Summary of LBC science files:

<https://drive.google.com/file/d/1dS2EJxOUEz0fr6jMIL7RcB6CfkA9tUjB/view?usp=sharing>

Summary of LBC calib files:

https://drive.google.com/file/d/1pVMR39j_x9o3K35okTqJdQHxdIPkx55Q/view?usp=sharing

INAF queue observing, 2023 Apr 21 - Apr 22

Observer: Olga Kuhn

Telescope Operator: David Gonzales Huerta

Astronomers from Italy: Felice Cusano, Ester Marini

Instrument: LBC, LUCI

Summary

These observations have been performed by Olga Kuhn from LBTO, Andrea Rossi and then Felice Cusano connected from Italy with the support of Ester Marini and Simona Paiano and other LBTO personnel.

At sunset the sky is clear and wind should be not a problem tonight. We start with LBC. Seeing improved during the night.

Completed Belladitta r+z and Vito DDT. Switch to LUCI at 8:40.

Night duration (12 degree - twilight) 02:50 - 11:50 UT = * 9h* * 00m*

Observing time: 8 h 30 min (95 %)*

Weather time loss: 0 h 0 min (0 %)*

Technical time loss: 0 h 30 min (5 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
D'onofrio	NGC4307	LBC-Bino	g+r	0.5h+0.5h		
Belladitta	J1037	LBC-Bino	r+z			completed. IQ not good in the first set of images, I less then 1" for the rest. See the log for the detailed IQs on the following images
Belladitta	J1037	LBC-Bino	r+y			stopped at 6/20 images
Vito	J1641	LBC-Bino	r+z			IQ on images <1"
Piconcelli_18	J1245	LUCI-BIN O	G200 - zJspec	0.25h+0.25h		seeing ~0.9-1" completed
telluric	HIP62745	LUCI-BIN O	G200 - zJspec			seeing ~0.9-1"
Piconcelli_10	J1359	LUCI-BIN O	G200 - HKspec	0.75h+0.75h		seeing variable between 1" and 2"

calib	skyflat	LBC-Bino	g+r; r+z	
calib	bias	LBC-Bino		bino bias
calib	arc and lamp	LUCI-BIN O	G200 - HKspec, zJspec	calib for Piconcelli

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1dU6ROsrry1RJXrTJcC160IJtE-clzlor/view?usp=sharing>

Detailed log by Olga Kuhn at this link:

<https://drive.google.com/file/d/1aH155L9sxGsXalnTZ2vaHpSs4VFuqgB0/view?usp=sharing>

Summary of LBC science files:

https://drive.google.com/file/d/15P8LMR674Op4eSjtixmVb_f3FY0Jsg8M/view?usp=sharing

Summary of LBC calib files:

https://drive.google.com/file/d/1fW_QZCQhS1S-d9RT0NNKrSn8atzz64PD/view?usp=sharing

Summary of LUCI science files:

https://drive.google.com/file/d/1CT-eTljg6FpmfRi_NyHtheBnas6rTRo9/view?usp=sharing

Summary of LUCI calib files:

<https://drive.google.com/file/d/1gTLB1V1gIEvoB4XSILnInkNbSHkBkLL7/view?usp=sharing>

INAF queue observing, 2023 May 27 - May 28

Observer: Ester Marini, Felice Cusano

Telescope Operator: Steve Allanson

SA : Jennifer Power

Instrument: MODS

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky is clear and wind is below the limit. We start with MODS.

It was a good night with no clouds. Some parts of the night were affected by variable seeing

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 30min (100%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Calibration	slitflat	MODS1-2	dual			1.2" slit flat

La Franca	B2 0917+23	MODS1-2	dual grating	0.5/0.4hr	1 more exp due to variable seeing and the less efficiency of MODS1
STD	Feige 34	MODS1-2	dual grating		for La Franca
Severgnini	Mrk147	MODS1-2	dual grating		*_1, to be done again to due high seeing
Vietri	J1421	MODS1-2	red+blue grating	1/1hr	seeing ~0.9-1.2" , 1/4 of the spec is not usable because the target fell in the gap of the slit (see log for details)
STD	H44	MODS1-2	red+blue grating		for Vietri
STD	H44	MODS1-2	red grating		for Decarli

Vietri	J1538	MODS1-2	red+blue grating	1/1hr	seeing ~0.9-1.2" , 1/4 of the spec is not usable because the target fell in the gap of the slit (see log for details)
Ighina	PSJ1638	MODS1-2	red grating	1.7/1.7hr	seeing ~0.9-1.2"
Decarli	PSO009.6 1	MODS1-2	red grating	0.33/0.33hr	seeing ~1.5"
Decarli	PSO331.9 3	MODS1-2	red grating	0.33/0.33hr	seeing ~1.5-1.2"
Giannini	Gaia23bab	MODS1-2	dual grating	0.5/0.5hr	seeing ~0.7"
Giannini	Gaia23bab	MODS1-2	dual ima- ugriz	0.05/0.05hr	seeing ~0.7"
Calibration	slitflat	MODS1-2	dual		0.8" slit flat
Calibration	slitflat	MODS1-2	red		0.6" slit flat
Calibration	slitflat	MODS1-2	blue		0.6" slit flat
Calibration	slitflat	MODS1-2	red		1.2" slit flat
Calibration	slitflat	MODS1-2	red		1.0" slit flat

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1M39MMoPidaEjfQd4dLh0O1dNDT4ORyy9/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1At7gkt7Inc-bNjlg89RT9dWGfIMjvJXv/view?usp=sharing>

Summary of MODS calib files:

<https://drive.google.com/file/d/1RgCDkfmZq7YGx6piDXd74c8bK5Do2zl/view?usp=sharing>

more MODS calib made by Jenny before our run:

https://docs.google.com/document/d/1xjnbeHI876A9J2PPJKz76bryVFW_JP9q3K_dCzZTwN8/edit?usp=sharing

LUCI darks by A. Cardwell for all the LUCI programs:

https://drive.google.com/file/d/1z8yJBsEg1Y_46zJmRj-svY2AyOgINW_N/view?usp=sharing

INAF queue observing, 2023 May 28 - May 29

Observer: Ester Marini, Felice Cusano

Telescope Operator: Steve Allanson

SA : Jennifer Power

Instrument: MODS

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky is clear and we can open. A problem occurred in initializing the camera in LUCI1, with the camera stuck in N30 position. Dave and Jenny tried to solve it but without success, LUCI cannot be used tonight. We used MODS for the whole night.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 30min (100%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Calibration	dual imag flats	MODS1-2				
Severgnini	Mrk147	dual grating	MODS1-2	0.41/0.33hr		*_1, *_2 done, we took 1 more exp of *_1 since we started very early in the night, seeing ~0.8"
Severgnini	Mrk22	dual grating	MODS1-2	1.33/1.33hr		seeing ~ 0.8-1.1"
Vietri	J1421	red+blue grating	MODS1-2	0.25hr		seeing ~ 0.7" , we did the 1/4 exp that we missed yesterday night

Severgnini	Mrk153	dual grating	MODS1-2	0.5/0.5hr	*_1, *_2, *_3 done, average seeing ~1.1"
Vietri	J1538	red+blue grating	MODS1-2	0.25hr	seeing ~ 0.8-1.1", we did the 1/4 exp that we missed yesterday night
Ighina	PSJ1321	red grating	MODS1-2	2/2hr	variable seeing ~ 1-1.5", done with the 1" slit
Giannini	Gaia23bab	MODS1-2	dual imager	0.05/0.05hr	seeing ~ 1"
STD	BD+33	MODS1-2	red-blue grating		for Vietri
STD	BD+33	MODS1-2	dual grating		
Giannini	Gaia20cw d	MODS1-2	dual grating	0.5/0.5hr	average seeing ~ 1.2"
Giannini	Gaia20cw d	MODS1-2	dual imager	0.1/0.1hr	seeing ~ 0.8-1"
Severgnini	Mrk306	dual grating	MODS1-2	0.75/0.75hr	average seeing ~ 1", with 1.3" during the first exp, but we could not take additional exp because we were pointing to the east
CALIB	flat imager	LUCI2	KS		for Gilli_AO
CALIB	flat imager	LUCI2	K		for Severgnini_AO

CALIB	flat ima	LUCI2	H2,H,J	for Caratti_DDT AO
CALIB	flat ima	LUCI2	JH	for Palazzi
CALIB	flat arc	LUCI2	G210 - K	for Caratti_AO

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/122GfpGj9wffVdFmIHsPL9RSIIIGOD3PUm/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/11GzbOLKRI3hLD28AvHjWDdvsDufHpzb9/view?usp=sharing>

Summary of LUCI calib files:

https://drive.google.com/file/d/1e9077fUMuMjPKV9DR2sOh_DHrEWnPAFY/view?usp=sharing

INAF queue observing, 2023 May 29 - May 30

Observer: Ester Marini, Felice Cusano

Telescope Operator: Steve Allanson

SA : Dave Thompson

Instrument: LUCI

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

LUCI1 is still not available for tonight. At the sunset the sky is clear, we will start with LUCI2+A0.

It was a good night with no clouds and a very good seeing (>1") for most of the time.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 10min (95.5%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 20min (4.5%)*

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTim e /Time_t ot	Image s	Notes
Gilli	FRII	LUCI2+A0	Ks	0.85 hr		--completed-- fwhm on image ~0.1"
Severgnini	J1630	LUCI2+A0	K	1.46hr		--completed-- fwhm on image ~0.08"
Caratti	Mol 77	LUCI2+A0	J, H	0.27hr		fwhm on image ~0.08 10 imag with J were already taken in run 88 --completed--

Caratti	Mol 77	LUCI2+ES M	G210/K	1.25hr	fwhm on image ~0.08
Telluric	HIP9036 7	LUCI2+ES M	G210/K		for Caratti, luci2.20230530.0187 .fits has the wrong central wavelength, it must not be used
STD	HD2058 24	LUCI2	G210/K		for Caratti
STD	GSPC P576-F	LUCI2	J,H,Ks		for Caratti
Giannini	Gaia23b ab	LUCI2-ima	J,H,Ks	0.03hr	
Giannini	Gaia23b ab	LUCI2	G200- HK,zj	0.19hr	did only 2 exp with zj and 2 with HK, so that we could do also the telluric before the end of the night
Telluric	HD1770 85	LUCI2	G200- HK,zj		for Giannini
CALIB	flat ima and arcs	LUCI2	H,J,Ks - G200- HK,zj		for Giannini, bad images from *.0253 to *.0257

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1H0xtmk1Bp7xwdW7WjhmtxNT-hMz4ALTV/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1HQDv2UoW8F5vSw4pQi0mecwDkXTbhJbk/view?usp=sharing>

Summary of LUCI calib files:

<https://drive.google.com/file/d/1wg8aSUEICrN1rsUKWfUbGWWLseXvrpbx/view?usp=sharing>

INAF queue observing, 2023 May 30 - May 31

Observer: Ester Marini, Felice Cusano

Support: Dave Thompson

Telescope operator : John Hill !

Instrument: MODS/LUCI

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

LUCI1 is back to operation.

At sunset the sky is clear and the wind is below the limit. We open and we start with MODS.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h * 30m*

Observing time: 7h 05min (94.4%)*

Weather time loss: 0h 0min (0%)*
 Technical time loss: 0h 25min (5.6%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
CALIB	flat arc	LUCI1+2	G200/HK			for Bisogni
CALIB	flat arc	LUCI1+2	G200/zJ			for Bisogni
Severgnini	Mrk1431	MODS1+2	dual grating	0.33h		completed
Severgnini	Mrk38	MODS1+2	dual grating	0.67h		completed
Severgnini	Mrk219	MODS1+2	dual grating	0.33h		acq_2 completed target
Ighina	PSJ1521	MODS1+2	red grating	1.9hr		completed
Ricci	1ES	MODS1+2	dual grating	6min + 6min		completed
Ricci	1ES	MODS1+2	imaging	1min + 1min		g , r filter
STD	BD+33	MODS1+2	dual grating			for Ricci
Bisogni	N8	LUCI1+2	G200/HK	1/2hr		did 6 exp out of 15, to be completed
Telluric	HIP71172	LUCI1+2	G200/HK			for Bisogni
Rossi-DDT	GRB221009A	LUCI1+2	ima HK	2hr		
CALIB	flats	LUCI1+2	ima JHK			for Rossi, Bisogni, Palazzi
CALIB	flats	LUCI1+2	ima Ks			for Giannini
CALIB	flat arcs	LUCI1+2	G200/HK			for Giannini
CALIB	flat arcs	LUCI1+2	G200/zJ			for Giannini

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1gFPd2j8u0n8ZI-e-hiFRS2ap-apopWLn/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1plwFyVVAC41WMBvoaX8eHY3BZfZUn0FA/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1G6Odyv__CElvPo1DNAP7LDlv8QEk2i3W/view?usp=sharing

Summary of LUCI calib files:

<https://drive.google.com/file/d/16rUk3Unt41HF9xoyJBvGozCy7ZJj55Z5/view?usp=sharing>

-- EsterMarini - 02 Jun 2023

-- EsterMarini - 01 Jun 2023

INAF queue observing, 2023 May 31 - June 01

Observer: Ester Marini, Felice Cusano

Telescope Operator: John Hill

Support astronomer: Dave Thompson

Instrument: LBC

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky is clear and the wind is below the limit. We open and we start with LBC.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 20min (97.7)*

Weather time loss: 0h 0min (%)*

Technical time loss: 0h 10min (2.3%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Images	Notes
CALIB	flats	LBC BINO	g i			PA=0,180, for Giunta
Giunta	P11F	LBC BINO	gi,rz	1.07hr		fwhm on image ~1.4" on the blue, ~1.8" on the red (<2" in the last images)
Rossi	GRB230205 A	LBC BINO	rz	0.67hr		fwhm on image in the requirement (<=1.2"), see the log

					for the details
TELLURIC	HIP 62745	LUCI1+2	G200/HK		for Bisogni
Bisogni	N3	LUCI1+2	G200/HK	2.33hr	took 4 exp more due to bad seeing
Bisogni	N1	LUCI1+2	G200/HK	1.5hr	last exp with bad seeing (~1.8")
TELLURIC	HIP 68767	LUCI1+2	G200/HK		for Bisogni
TELLURIC	HD177085	LUCI1+2	G200/zj,HK		for Giannini
Giannini	Gaia23bab	LUCI1+2	G200/zj,HK	0.75hr	completed, seeing~1-1.2"
Giannini	Gaia23bab	LUCI1+2-i ma	J,H,Ks		
TELLURIC	HD189411	LUCI1+2	G200/zj,HK		for Giannini
Giannini	Gaia20c wd	LUCI1+2	G200/zj,HK	1hr	seeing~1-1.2"
Giannini	Gaia20c wd	LUCI1+2-i ma	J,H,Ks	0.06	
TELLURIC	HD167163	LUCI1+2	G200/zj,HK		for Giannini
CALIB	bias	LBC BINO			for Giunta

Detailed log by Felice and Ester at this link:

https://drive.google.com/file/d/1AqqZbgl7lpvLuBcnUs-gShJGlv4cdv_G/view?usp=sharing

Summary of LBC science files:

<https://drive.google.com/file/d/1gUclx3mlwhN7L4FVoV1ny4zsl-DUnyHG/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1nYDkTrLkEM7olbf8wwkpjoP5Tvz4SUN2/view?usp=sharing>

Summary of LBC calib files:

https://drive.google.com/file/d/1CdYmeTuZi_RsyG5tQznkEZheVnuklvVL/view?usp=sharing

INAF queue observing, 2023 Jun 01 - Jun 02

Observer: Ester Marini, Felice Cusano

Support: Dave Thompson

Telescope operator : John Hill !

Instrument: PEPSI

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky has thick clouds. We have to wait for the clouds moving away. We open at 06:43UT and since there are still some clouds we start with PEPSI.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 3h 10min (42.2%)*

Weather time loss: 4h 24min (57.8%)*

Technical time loss: 0h 0min (0%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Marini	HD341617/IRAS_18062+2410	PEPSI	CD2-CD5			tepx increased due to clouds. S/N= 310 on the red and 210 on the blue
Marini	EM*StHA161/IRAS_19200+3457	PEPSI	CD2-CD5			S/N 470 on the red 240 on the blue
Marini	Min 1-92/IRAS_19343+2926	PEPSI	CD2-CD5			S/N blue 70, red 243
Marini	V1027 Cyg/IRAS_20004+2955	PEPSI	CD2-CD5			S/N blue 181, red 1100
Marini	EM*VES 351/IRAS_20572+4919	PEPSI	CD2-CD5			S/N blue 102, red 394

Marini	Hen1-5/IRAS_20097+201 0	PEPSI	CD2-CD5	S/N blue 72, red 146
Marini	LS II+34 26/IRAS_20462+3416	PEPSI	CD2-CD5	S/N blue 113, red 233
Marini	Min 1-92/IRAS_19343+2926	PEPSI	CD2-CD5	S/N blue 45, red 161, done again with texp halved to reach the request ed S/N
Marini	EM*GGR44/IRAS_22023+ 5249	PEPSI	CD2-CD5	S/N blue 122, red 284

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1DI7Jt-pud4B8wRABBDIN-RzP6tSFmpmw/view?usp=sharing>

INAF queue observing, 2023 June 02 - June 03

Observer: Ester Marini, Felice Cusano

Support: Dave Thompson

Telescope operator : John Hill !

Instrument: LUCI/PEPSI

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky is clear and the wind is below the limit. We open and we start the night with LUCI.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 6h 35min (87.8%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 55min (12.2%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Palazzi	SLSN2020abjc	LUCI1+2	J ima	1.5hr		seeing ~0.8-1"
TELLURIC	HIP68767	LUCI1+2	G200/HK			for Piconcelli
Piconcelli	J1359	LUCI1+2	G200/HK	1.37hr		seeing ~0.7"
TELLURIC	HIP64248	LUCI1+2	G200/zj			for Bisogni
Bisogni	N6	LUCI1+2	G200/zj	1.7hr		seeing ~0.7"
TELLURIC	HIP71172	LUCI1+2	G200/HK			for Bisogni
Bisogni	N8	LUCI1+2	G200/HK	1hr		completed , seeing ~0.7"
Marini	LS4331/IRAS_17381-1616	PEPSI	CD2-CD5	1.2hr		S/N 110 on the blue, 253 on the red
Cusano	Gaia21dnc	PEPSI	CD2-CD5	2hr		S/N 70 on the blue, 174 on the red
Cusano	Gaia21dnc	PEPSI	CD2-CD6	0.47hr		stopped for high background, S/N 23 on the blue, 70 on the red

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1nXtSYFVEvuN5-e2B2LUrR1NTFvKLiTYN/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1mrvqghvb3kp9mvHHRJLNYNOyaw9Ghij/view?usp=sharing>

-- EsterMarini - 04 Jun 2023

INAF queue observing, 2023 June 03 - June 04

Observer: Ester Marini, Felice Cusano

Support: Dave Thompson

Telescope operator : John Hill !

Instrument: LUCI/MODS

Summary

These observations have been performed by Ester Marini and Felice Cusano from the summit of the LBT.

At sunset the sky is clear and the wind is below the limit. We open and we start the night with LUCI.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 08min (95.1%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 22min (4.8%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
TELLURIC	HIP52192	LUCI1+2	G200/HK			for Bisogni
Bisogni	N5	LUCI1+2	G200/HK	1.5"		seeing~ 0.7-1"
TELLURIC	HIP68767	LUCI1+2	G200/zj			for Bisogni
Bisogni	N2	LUCI1+2	G200/zj	0.67hr		seeing~ 0.7-0.9"
TELLURIC	HD167163	LUCI1+2	G200/zj-HK			for Giannini
Giannini	Gaia21aul	LUCI1+2	G200/zj-HK	0.25hr/1hr		we decreased exposure times because the first spectra saturated, seeing variable 0.9-1.5"
Giannini	Gaia21faq	LUCI1+2	G200/zj-HK	1hr		seeing variable up to 2.5", see log for the details

Giannini	Gaia21faq	LUCI1+2	ima J,H,Ks	0.06hr	seeing variable, see log for the details
TELLURIC	BD+38440 4	LUCI1+2	G200/zj-HK		for Giannini
Giannini	Gaia21aul	MODS1+2	dual grating	0.17/0.5hr	decreased exp time because the target was too bright
Giannini	Gaia21aul	MODS1+2	ima ugriz		
Giannini	Gaia21faq	MODS1+2	dual grating	0.5hr	seeing ~ 0.7-1"
Giannini	Gaia21faq	MODS1+2	ima ugriz		
Severgnini	Mrk930	MODS1+2	dual grating	0.33hr	*_1, *_2 done, seeing between 1" and 1.2"
Decarli	PSO308.19	MODS1+2	red grating	0.5/0.33hr	seeing ~1.3", added one more integration because we could not see any trace of the spectrum
STD	BD+28	MODS1+2	dual grating		

Detailed log by Felice and Ester at this link:

<https://drive.google.com/file/d/1kPCD-OTsVuZFajuoaZnZd5immvRhw2VC/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1UbF-p8XItNdTP2HyWZB1BXc1NNFx14YA/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1pUMLB_SYId9yMGz2RJWfuHTZ5hJurNvZ/view?usp=sharing

INAF queue observing, 2023 June 19 - June 20

Observer: Felice Cusano, Andrea Rossi
Support: Dave Thompson
Telescope operator : Steve Hallanson
Instrument: PEPSI

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset there are variable clouds and the wind is at the limit to open. We stay closed all night.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 0h 0min (0%)*

Weather time loss: 7h 30min (100%)*

Technical time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
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MODS calib

LUCI DARKS

Detailed log by Andrea and Felice at this link:

https://drive.google.com/file/d/1ylmMYJOhpm_plg83XiAukG3NCzP-MYgu/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/1uYpDqUcSZ6LNUMqNLP9cdJRVafMYTcoS/view?usp=sharing>

Summary of LUCI calib files:

<https://drive.google.com/file/d/1JaaA5FapdqINu7tb3pLQO5tpRRPI6IQ7/view?usp=sharing>

INAF queue observing, 2023 June 20 - June 21

Observer: Felice Cusano, Andrea Rossi, Simona Paiano

Support: Dave Thompson

Telescope operator : David Gonzalez Huerta

Instrument: MODS, PEPSI

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky shows some cirrus but we can open.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 6 h 40 min (89%)*

Weather time loss: 0 h 25 min (5.5%)*

Technical time loss: 0 h 25 min (5.5%)*

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTim e	Image s	Notes
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				/Time_tot	
STD	GD153	MODS1+ 2	dual grating		
Rossi_23	goto23hn	MODS1+ 2	imaging g+r	0.12hr	DIMM~1.2"
Rossi_23	goto23hn	MODS1+ 2	dual grating	0.66hr	mods1r not useful, DIMM~1"
Ripepi	GAIA DR3 3663348550752401 152	PEPSI	CD2-CD4		CD2 SNR~100 /
Ripepi	GAIA DR3 3663348550752401 152	PEPSI	CD2-CD6		CD2 -
Ripepi	GAIA DR3 3652816225790826 880	PEPSI	CD2-CD4		CD2 SNR~60
Ripepi	GAIA DR3 3652816225790826 880	PEPSI	CD2-CD6		CD2 SNR~50
Ripepi	GAIA DR3 1208200864738741 376	PEPSI	CD2-CD4		CD2 SNR~50
Ripepi	GAIA DR3 1208200864738741 376	PEPSI	CD2-CD6		CD2 SNR~45
Ripepi	GAIA DR3 4352629469629411 840	PEPSI	CD2-CD4		CD2 SNR~24
Ripepi	GAIA DR3 4352629469629411 840	PEPSI	CD2-CD6		CD2 SNR~20
Ripepi	GAIA DR3 4500728841169873 408	PEPSI	CD2-CD4		CD2 SNR~40

Ripepi	GAIA DR3 4500728841169873 408	PEPSI	CD2-CD6	CD2 SNR~40
Rainer	Kepler-5	PEPSI	300-CD2-C D6 short	CD6 SNR~151
Rainer	Kepler-5	PEPSI	300-CD2-C D5 long	CD5 SNR~430
Ripepi	GAIA DR3 4485762769928798 208	PEPSI	CD2-CD4	CD2 SNR~50
Ripepi	GAIA DR3 4485762769928798 208	PEPSI	CD2-CD6	CD2 SNR~41
Ripepi	GAIA DR3 1789512215668452 864	PEPSI	CD2-CD4	CD2 SNR~ 44
Ripepi	GAIA DR3 1789512215668452 864	PEPSI	CD2-CD6	The observati on was stopped after about 5 minutes!

Detailed log at this link:

<https://drive.google.com/file/d/1LbsG0hAhROigvhuBK2UNBfZHPJeEeVmn/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1I2Gpl9Us-us3Y_vKBxG5SB1g7F8hzlKp/view?usp=sharing

INAF queue observing, 2023 June 21 - June 22

Observer: Felice Cusano, Simona Paiano

Support: Dave Thompson

Telescope operator : David Gonzalez Huerta

Instrument: PEPSI

Summary

These observations have been performed by LBTO personell under the supervision of LBT Italia obs.

At sunset the sky there are some thick clouds. We can use PEPSI tonight. We open around 06:30 UT

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 3 h 54 min (%)*

Weather time loss: 3 h 20 min (%)*

Technical time loss: 0 h 16 min (%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Ripepi	GAIA DR3 1400474455952839 168	PEPSI	CD2-CD4			CD2 SNR~ , Several passing clouds- the observati on was stopped
Ripepi	GAIA DR3 1400474455952839 168	PEPSI	CD2-CD6			CD2 SNR~ , Several passing clouds- the observati on was stopped
Ripepi	GAIA DR3 1750217486861133 440	PEPSI	CD2-CD4			CD2 SNR~31
Ripepi	GAIA DR3 1750217486861133 440	PEPSI	CD2-CD6			CD2 SNR~29
Rainer	WASP-90	PEPSI	300-CD2-C D6 short			CD6 SNR~95 (first exposure) , CD6 SNR~120 (second exposure)
Rainer	WASP-90	PEPSI	300-CD2-C D5 long			CD5 SNR~330
Ripepi	GAIA DR3 2842394208144893 184	PEPSI	CD2-CD4			CD2 SNR~ 35

Detailed log at this link:

https://drive.google.com/file/d/1w1s_LYFAeRHGR5WWSf0-eyLGaMXXZrw5/view?usp=sharing

INAF queue observing, 2023 June 22 - June 23

Observer: Felice Cusano, Andrea Rossi

Support: Dave Thompson

Telescope operator : David Gonzalez Huerta

Instrument: LBC, MODS

Summary

These observations have been performed by LBTO personell under the supervision of LBT Italia obs.

At sunset the sky there are some thick clouds. We start with LBC tonight. We switch to MODS at about 8.30 UT.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7 h 10 min (95%)*

Weather time loss: 0 h 0 min (0%)*

Technical time loss: 0 20 0 min (5%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Giunta	2018JB3	LBC-B+LB C-R				script number 2
Maiorano	AT2023lcr	LBC-B+LB C-R	g+z	8m+8m		
Maiorano	AT2023lcr	LBC-B+LB C-R	Uspec+r	10m+8m		
Maiorano	GRB230328 B	LBC-B+LB C-R	g+r	32m+32m		OB done twice
Rossi_23	GRB230512 A	LBC-B+LB C-R	r+r	32m		
Rossi_23	GRB230512 A	LBC-B+LB C-R	g+i	16+16m		
Rossi_23	GRB230512 A	LBC-B+LB C-R	g+z	20+20mb r		some image more for the bad focus in g

Rossi_23	GRB230512 A	LBC-B+LB C-R	r+r	40m	again for good seeing ~1.1"
Paiano_34	4FGLJ1752	MODS1+2	dual grating 1.2"	2h/4h	DIMM 1"-1.4"
STD	Feige110	MODS1+2	dual grating 1.2"		

CALIBRATION BIAS LBC-BINO

Detailed log at this link:

https://drive.google.com/file/d/10dlJNWMZa_IsHR33AVXB_wQAjTddOksK/view?usp=drive_link

Summary of LBC science files:

https://drive.google.com/file/d/1mWN9mlVwnQ6_CS_8bveXXA4D3wPU7bFB/view?usp=sharing

Summary of LBC calib files:

https://drive.google.com/file/d/1ldiM-aKbQo_lkqfSxFDT8ATZXrC-vDtf/view?usp=sharing

Summary of MODS science files:

https://drive.google.com/file/d/1uKC3ThYyO3m5Cj4lSkW5WAegVgXR8v4_/view?usp=sharing

INAF queue observing, 2023 June 23 - June 24

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Dave Thompson

Telescope operator : David Gonzalez Huerta

Instrument: MODS

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky is clear. We start with MODS tonight

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7 h 05 min (%)*

Weather time loss: 0 h 0 min (%)*

Technical time loss: 0 h 25 min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
STD	H44	MODS1+2	red+blue grating			
Vietri	J1421	MODS1+2	blue grating	1 h		DIMM~1", PA=310
Vietri	J1421	MODS1+2	red grating	1 h		PA=310

Paiano	J1752	MODS1+2	ima r		seeing on guider ~1"
Paiano	J1752	MODS1+2	ima i		seeing on guider ~0.7", DIMM 1"
Paiano	J1752	MODS1+2	dual grating	1h+1h	2 exposures for MOD1, 3 exposures for MOD2
Grazian	Q21720916	MODS1+2	dual grating		
Paiano	J2045	MODS1+2	dual grating	0.5h+0.5h	seeing up to 2.5"
Grazian	Q1145726	MODS1+2	dual grating	0.1h+0.1	
Giunta	2017 XA1	LBC			
Flats		LBC	r,z		Other flats already taken during this month (otherwise they will be taken during the next days)

Detailed log at this link:

https://drive.google.com/file/d/1-5GuOjDDRcKL2PY_KEWm6HObZ_qe_rzg/view

Summary of MODS science files:

https://drive.google.com/file/d/1Sndcd3FD1p_zSyQ90zL_b0diX1DISw2r/view?usp=sharing

Summary of LBC science files:

<https://drive.google.com/file/d/1eq8VyBU7oVP3PIR1OJoduUzIHNUxjzLG/view?usp=sharing>

Summary of LBC calib files:

<https://drive.google.com/file/d/1mYfhcjQMjXPsUvRgzp6minhy7UztniqG/view?usp=sharing>

INAF queue observing, 2023 June 24 - June 25

Observer: Felice Cusano, Ester Marini

Support: Dave Thompson

Telescope operator : David Gonzalez Huerta

Instrument: MODS

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky is clear. We start with MODS tonight.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 7h 30min (100%)*

Weather time loss: 0 h 0 min (0%)*

Technical time loss: 0 h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Vietri	J1538	MODS1+2	blue grating	1 h		DIMM~1", completed
Vietri	J1538	MODS1+2	red grating	1 h		completed
Paiano	4FJ1538	MODS1+2	dual grating	1h		stopped at 1/2 of the script due to wind
STD	BD+33	MODS1+2	red, blue, dual			
Paiano	4FGLJ2130	MODS1+2	r and i-ima			FWHM on images < 1"
Paiano	4FGLJ2130	MODS1+2	dual grating	3h		seeing ~1", a bit variable during the 4th exp (up to ~1.6")
Giunta	2017XA1	LBC BINO	r g / z i -sloan			stopped at 5 exp to the end for high counts, FWHM on images ~ 1.1" red, ~1.1-1.5" blue

CALIB	flat	LBC BINO	g i sloan	PA=0,180, for Giunta
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Detailed log at this link:

https://drive.google.com/file/d/1Hw_OQ-bPNj4LvrF5k7vVaJ1dmcGdpCCe/view?usp=sharing

Summary of MODS science files:

https://drive.google.com/file/d/1gT8_i5PQYbMnfWK53XYJGySkoWo8T6Kz/view?usp=sharing

Summary of LBC science files:

https://drive.google.com/file/d/1pYtwZ7xLhxvqi5Gt_L_iDNFQTM20W5Y5/view?usp=sharing

Summary of LBC calib files:

<https://drive.google.com/file/d/1Fi2wWjRpXEGQ2McVpjrkr5fvZxQDF-rk/view?usp=sharing>

-- EsterMarini - 26 Jun 2023

INAF queue observing, 2023 June 25 - June 26

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LBC

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky is clear. We start with MODS tonight

Night duration (12 degree - twilight) 07:10 - 11:10 UT = * 4h* * 00m*

Observing time: 4 h 00 min (100%)*

Weather time loss: 0 h 0 min (%)*

Technical time loss: 0 h min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Maiorano	AT2023lcr	LBC	g+r	0.5h + 0.5h		
Maiorano	AT2023lcr	LBC	g+z	0.3h+0.3h		
Saracco	RDC2156	LBC	B+R	1.7h+1.2h		first and second script done, third exposure 13/15 exps

Detailed log at this link:

<https://drive.google.com/file/d/1pi0iR3bDiDTUx3o32h3OBx9cjJC0gRaL/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/1mPj0c5o6Q3H8iJz-P8npQxoXDBSsCBTA/view?usp=sharing>

-- EsterMarini - 27 Jun 2023

INAF queue observing, 2023 June 26 - June 27

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: MODS/LUCI1

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky is clear and the wind is below limits.

Problems with MODS1/blue channel, which cannot be used tonight. We start with MODS and then switch to LUCI.

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 5 h 45 min (75%)*

Weather time loss: 1 h 45 min (25%)*

Technical time loss: 0 h 00 min (%)*

Data Summary

Project_RU N	Objects	Instrumen t	Configuratio n	ExpTime /Time_to t	Image s	Notes
Vietri	J1538	MODS1+2	blue -red	1hr		seeing ~1"
STD	HZ44	MODS1+2	blue -red			for Vietri
Maiorano	AT2023lcr	LUCI1	ima-H	1.6hr		Some clouds during the observations, we run the script twice, but we interrupt after 40 exp. On average seeing around 1.0-1.2"
Rossi	GRB230512 A	LUCI1	ima-H	1hr		

Detailed log at this link:

<https://drive.google.com/file/d/1lqogHSovRYBSrCzrQ4YfvIX3Zzsox9qN/view?usp=sharing>

some additional detail from the LBTO personnel log:

<https://drive.google.com/file/d/1swxyyXarMsl4CEpQmZoyuQYxSpkDPcgE/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1bH-7D8mpC0bn-gwPxl4gygHQ7aFNNN3/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1RztpRR3Q3YeFcDG_WAYwC1BBvHKvBcc4/view?usp=sharing

INAF queue observing, 2023 June 27 - June 28

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Alex Becker

Telescope operator : Josh Williams

Instrument: LUCI1, LBC

Summary

These observations have been performed by LBTO personel under the supervision of LBT Italia obs.

At sunset the sky is clear and the wind is below limits.

Problems with MODS2/blue channel, which can be used but with special care. See details in log.

We start with LUCI

Night duration (12 degree - twilight) 03:40 - 11:10 UT = * 7h* * 30m*

Observing time: 6 h 28 min (%)*

Weather time loss: 0 h 00 min (%)*

Technical time loss: 1 h 02 min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Telluric	HIP55627	LUCI1	HKspec			for Bisogni W3
Bisogni	W3	LUCI1	HKspec	1.5/1h		DIMM 1"-1.2"
Rossi	GRB 230205A	LUCI1	ima-H	1h		
Maiorano	AT2023lcr	LUCI1	ima-H	0.2hr		
Saracco	RDC2156	LBC	B+R	1.1h + 0.75h		seeing stable at 1.1 (blue), 0.8 (red), stopped last script at 12/16

Detailed log at this link:

<https://drive.google.com/file/d/1Sslm8rXnj3jv-QnyiG62OuDEseVdtNE/view?usp=sharing>

Log by Alex Becker at this link:

<https://drive.google.com/file/d/17ehfRUYgClvUoQ5w4eiZFs3tmVsWctz8/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1Nw4FvuitvxxdYuRtoW5pT6SIy3nloxUV/view?usp=sharing>

Summary of LUCI calib files:

<https://drive.google.com/file/d/1CXLuKOHAmAollCGOWsJj-JSxVloIOxAO/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/1WGRqpe65Eu7ujfw9olCrle5X-U8-DFrR/view?usp=sharing>

Summary of LBC calib files:

https://drive.google.com/file/d/1F-asu74_Yb7_zOnfeF6-kDOzORPVgfbD/view?usp=sharing

INAF queue observing, 2023 September 15 - September 16

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Jenny Power

Telescope operator : David Gonzalez Huerta

Instrument: LBC

Summary

These observations have been performed by Andrea from the INAF control room in Bologna , and then later by the LBTO personell under the supervision of Simona of the LBT Italia observers.

At sunset the sky is a bit cloudy. We could open at ~12 degrees twilight See details in log.

We start with LBCs

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 09 h 55 min (99%)*

Weather time loss: 00 h 00 min (0%)*

Technical time loss: 00 h 05 min (1%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Images	Notes
Giunta	2015ME131	LBCblue+red	gr+iz	12+12min		3 times
Vito	J221644	LBCblue+red	r+i	1.5h+1.5h		3 times - completed
Vito	J221644	LBCblue+red	r+z	0.5h+0.5h		1 times (out of 3)
Vito	J010013	LBCblue+red	r+Y	1h+1h		2 times - completed
Giunta	2012VE46	LBCblue+red	gr+iz	25min+25min		3 times + 1 (not completed)

Detailed log at this link:

https://drive.google.com/file/d/1yt79jcNyXhqWFJIVYQtB_3cGzQTsQhi4/view?usp=sharing

Log by Jenny Power at this link:

https://drive.google.com/file/d/1kFjalUEOqpAEE3yly6JiOD-_rNuucfKG/view?usp=sharing

Summary of LBC science files:

https://drive.google.com/file/d/1TUEb-7XZ3G_xv0N9r1eqtkWYGVb7c2u7/view?usp=sharing

Summary of LBC calib files:

<https://drive.google.com/file/d/1LFtchnMpAaJrXfFn2Kv9lshHu-esltZL/view?usp=sharing>

INAF queue observing, 2023 September 16 - September 17

Observer: Ester Marini, Andrea Rossi

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: PEPSI

Summary

These observations have been performed for the first half of the night by LBTO personell under the supervision of Ester Marini of the LBT Italia observers, and for the second half by Andrea Rossi.

At sunset the sky is cloudy, but we can open. We start with PEPSI. Clouds, bad seeing and high humidity prevented us to be open all night. See logs for details

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 05 h 10 min (52%)*

Weather time loss: 04 h 50 min (48%)*

Technical time loss: 00 h 00 min (0%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Images	Notes
Marini	IRAS 18062+241 0	PEPSI	CDI-CDIV	25+25min		S/N~90 on CDI, ~170 on CD IV
Marini	IRAS 18062+241 0	PEPSI	CDIII-CDVI	12+12min		S/N~110 on CDIII, ~100 on CD VI, increased exp time from 8 to 12mins due to clouds
Marini	IRAS 19200++34 57	PEPSI	CDI-CDIV	2+2hr		S/N~350 on CDI, ~790 on CD IV, exp time increased from 1hr23min to 2hr due heavy mag extinction

Marini	IRAS 19200++34 57	PEPSI	CDIII-CDVI	11+11min	S/N~221 on CDIII, ~175 on CD VI
Marini	IRAS 19343-2926	PEPSI	CDI-CDIV	33+33min	S/N ~70 on CD1, ~240 on CDIV, maybe blue bad for jump in seeing+humidity to be repeated
Marini	IRAS 19343-2926	PEPSI	CDII-CDV	26+26min	S/N ~120 on CDII, ~250 on CDV, exp time from 21 to 26mins for humidity+highseei ng
Marini	IRAS 19343-2926	PEPSI	CDIII-CDVI	14+14min	S/N ~120 on CDIII , ~150 on CDVI, exp time from 11 to 14mins for humidity+highseei ng
Marini	IRAS 20462+341 6	PEPSI	CDI-CDIV	25+25min	S/N 120 on CDI, 320 on CDIV, exp time from 17 too 25 for clouds
Marini	IRAS 20572+491 9	PEPSI	CDI-CDIV	5+5 min	S/N 50 on CDI, 70 on CDIV, stopped , we had to close, to be repeated
Calib		MODS	dual grating		dual grating arcs+flats, 0.8", 1.2",5" slits and slitless

Detailed log at this link:

<https://drive.google.com/file/d/1x21mYlyNgR6drXxPfqkMMHCWLqNV8adf/view?usp=sharing>

Further details in the Log by Alex Backer at this link:

https://drive.google.com/file/d/13kr9TMw1_1VJknl8eyocMiY0keWCzsyF/view?usp=sharing

Summary of MODS calib files:

https://drive.google.com/file/d/1S-Q4xr2PdZ0rPnEbuLsooufSYbDL-8b_/view?usp=sharing

Summary of PEPSI science files:

https://drive.google.com/file/d/139Q22Wo7Xv2RRzwrV8O79Wd1Hk_zWyhP/view?usp=sharing

INAF queue observing, 2023 September 17 - September 18

Observer: Felice Cusano, Ester Marini, Simona Paiano

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: PEPSI, LBC

Summary

These observations have been performed for the first half of the night by LBTO personell under the supervision of Felice Cusano of the LBT Italia observers, and for the second half by Ester Marini and Simona Pariano

At sunset the sky is cloudy, but we can open. We start with PEPSI. Increasing clouds we closed at 02:00. We open again at 3:00, struggling with clouds, but finally it was clear at about 4:20. We switch to LBC 05:45 with no clouds and good seeing to observe the program of Vito_15. After a couple of hours we switch back to PEPSI due to clouds and bad seeing.

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 8 h 20 min (83%)*

Weather time loss: 1 h 30 min (15%)*

Technical time loss: 00 h 10 min (2%)*

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTime /Time_tot	Image s	Notes
Marini	IRAS1943+29	PEPSI	CDI-CDIV	33+33min		S/N~73 on CDI, ~258 on CDIV
Marini	IRAS 20004+2955	PEPSI	CDI-CDIV	30+30min		S/N~97 on CDI, ~1667 on CDIV
Marini	IRAS 20097+2010	PEPSI	CDI-CDIV	+min		S/N~55 on CDI, ~3000 on CDIV , to repeat

Vito	J005006	LBC BINO	r- i-sloan		only *r_i_1 done, FWHM < 1", but lcb: 71254, 71443, 71631 lbc: 71249, 71428, 71607 are almost empty due to passin g clouds
Marini	IRAS 20572+4919	PEPSI	CDI-CDIV		S/N ~ 129 on CDI, ~597 on CDIV
Marini	IRAS 01005+7910	PEPSI	CDI-CDIV	16min+16 min	S/N~1 43 on CDI, 395~o n CDIV
Marini	IRAS 01005+7910	PEPSI	CDII-CDV	11min+11m in	S/N~1 90 on CDII, 301~ on CDV
Marini	IRAS 06556+1629	PEPSI	CDI-CDIV		S/N~8 2 on CDI, ~300 on CDIV

Marini	IRAS 06556+1629	PEPSI	CDII-CDV	S/N~1 42 on CDII, ~287 on CDV
Bragaglia	Gaia DR3 3445234993180087 040	PEPSI	CD3-CD5	S/N~9 6 on CD3, ~141 on CD5
Bragaglia	Gaia DR3 3451292752493726 208	PEPSI	CD3-CD5	S/N~11 9 on CD3, ~136 on CD5
Bragaglia	Gaia DR3 3451170809783500 288	PEPSI	CD3-CD5	S/N~1 24 on CD3, ~203 on CD5
Bragaglia	Gaia DR3 3451172592189387 392	PEPSI	CD3-CD5	S/N~9 8 on CD3, ~155 on CD5
Bragaglia	Gaia DR3 3451194754222598 656	PEPSI	CD3-CD5	S/N~1 52 on CD3, ~188 on CD5
Bragaglia	Gaia DR3 3451191799284183 424	PEPSI	CD3-CD5	S/N~1 32 on CD3, ~230 on CD5

Bragaglia	Gaia DR3 3451195342636011 392	PEPSI	CD3-CD5	S/N~11 3 on CD3, ~179 on CD5
Bragaglia	Gaia DR3 3451194307546000 000	PEPSI	CD3-CD5	S/N~1 09 on CD3, ~133 on CD5

Detailed log at this link:

<https://drive.google.com/file/d/1QQQu-6BuCrs8CTI3hgKYoz7GL1Wy104LP/view?usp=sharing>

Further details in the Log by Alex Backer at this link:

<https://drive.google.com/file/d/1bBxyus43VJUjNvFDuMCyVfuial9OvQGt/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/1RRosx-ckjyHIQ-tcMO2YKKuLA4FZWZz5/view?usp=sharing>

Summary of PEPSI science files:

<https://drive.google.com/file/d/1v4eBRWVOQ6UdqP-Psm6ivymjgT-ptU6B/view?usp=sharing>

INAF queue observing, 2023 September 18 - September 19

Observer: Andrea Rossi, Simona Paiano, Ester Marini

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LBC, PEPSI

Summary

These observations have been performed for the first half of the night by Andrea Rossi and LBTO personnel, and for the second half by LBTO team under the supervision of Simona Paiano.

At sunset the sky is clear, we can open. We start with LBC. For technical problems we switch to PEPSI at about midnight, see logs for details.

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 7h 55min (%)*

Weather time loss: 0h 5min (%)*

Technical time loss: 2h 0min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
calib	imaging flat	MODS1-2	u,g,r,i		
calib	sky flat	LBC Bino	Uspec,B-Bessel + YFan, V-Bessel		

Vito	J2216-0016	LBCblue+LBCred	r+Y	30+30m	only Y is ok
Vito	J2216-0016	LBCblue+LBCred	r+z	30+30m	
Vito	J005006	LBCblue+LBCred	r+i	XXm+XXm	script stopped due to bad seeing (>1.1)
Maiorano	GRB210722A	LBCblue+LBCred	r+z	0.67h+0.67h	2 times (not completed due to LBC issue)
Marini	IRAS 22023+5249	PEPSI	CDI-CDIV	1.37hr	S/N~92 on CDI, ~224 on CDIV first exposure of 24minutes -
Bragaglia	Gaia DR3 34511813539237203 20	PEPSI	CD3-CD5	0.07hr	S/N~102 on CD3, ~181 on CD5
Bragaglia	Gaia DR3 34511813539237203 20	PEPSI	CD1-CD6	0.13hr	S/N~67 on CD1, ~235 on CD6
Bragaglia	Gaia DR3 34511813539237203 20	PEPSI	CD1-CD4	0.13hr	S/N~68 on CD1, ~207 on CD4
Bragaglia	Gaia DR3 34511818392593688 32	PEPSI	CD3-CD5	0.08hr	S/N~100 on CD3, ~166 on CD5

Bragaglia	Gaia DR3 34511821441976919 04	PEPSI	CD1-CD4	0.13hr	S/N~66 on CD1, ~210 on CD4
Bragaglia	Gaia DR3 34511821441976919 04	PEPSI	CD3-CD5	0.07hr	S/N~112 on CD3, ~183 on CD5
Bragaglia	Gaia DR3 34511821441976919 04	PEPSI	CD1-CD6	0.13hr	S/N~60 on CD1, ~246 on CD6
Bragaglia	Gaia DR3 34511806023088060 16	PEPSI	CD3-CD5	0.08hr	S/N~99 on CD3, ~157 on CD5
Bragaglia	Gaia DR3 34511809802659182 08	PEPSI	CD3-CD5	0.08hr	S/N~95 on CD3, ~173 on CD5
Bragaglia	Gaia DR3 34511809115464487 68	PEPSI	CD3-CD5	0.08hr	S/N~102 on CD3, ~165 on CD5
Bragaglia	Gaia DR3 34511818736191022 08	PEPSI	CD3-CD5	0.07hr	S/N~87 on CD3, ~150 on CD5
Bragaglia	Gaia DR3 34512185010995627 52	PEPSI	CD1-CD4	0.13hr	S/N~67 on CD1, ~250 on CD4
Bragaglia	Gaia DR3 34512185010995627 52	PEPSI	CD1-CD6	0.13hr	S/N~71 on CD1, ~268 on CD6
Bragaglia	Gaia DR3 34512185010995627 52	PEPSI	CD3-CD5	0.07hr	S/N~114 on CD3, ~191 on CD5

Bragaglia	Gaia DR3 34511811520645822 72	PEPSI	CD3-CD5	0.09hr	S/N~88 on CD3, ~141 on CD5
Bragaglia	Gaia DR3 34511808385276424 96	PEPSI	CD3-CD5	0.07hr	S/N~104 on CD3, ~174 on CD5
Bragaglia	Gaia DR3 34512046154665848 32	PEPSI	CD3-CD5	0.125hr	S/N~117 on CD3, ~133 on CD5

Detailed log at this link:

<https://drive.google.com/file/d/1-Z5Ge0Ryz4EbG38bymEsqZDv6eYhSw8H/view?usp=sharing>

Further details in the Log by Alex Backer at this link:

https://drive.google.com/file/d/1O_t_kX8GquY0muu-IRNIhx0ML8Xa-3vI/view?usp=sharing

Summary of LBC science files:

https://drive.google.com/file/d/1udz8_-u0VFNAOYcNVlowdF5BjK0mnqG1/view?usp=sharing

Summary of LBC calib files:

<https://drive.google.com/file/d/1HPccA8LQBfeUKInUIxQi4I4jkB0-76DF/view?usp=sharing>

Summary of MODS calib files:

https://drive.google.com/file/d/1ToSEWHG46iQiIWa_EzJZfalBOtYyt2kv/view?usp=sharing

Summary of PEPSI science files:

https://drive.google.com/file/d/1-inblZrN_L9rZLISbx3nW8ePYZ89gGul/view?usp=sharing

INAF queue observing, 2023 September 19 - September 20

Observer: Felice Cusano, Ester Marini and Simona Paiano

Support: Alex Becker

Telescope operator : Josh Williams

Instrument: LBC, MODS

Summary

These observations have been performed for the first half of the night by Felice Cusano and LBTO personnel, and for the second half by LBTO team under the supervision of Simona Paiano.

At sunset the sky is clear, we can open. We start with LBC. Very good seeing during the night.

Switch to MODS 3 hours before morning twilight for the program of Pentericci

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 10h 0min (100%)*

Weather time loss: 0h 0min (%)*

Technical time loss: 0h 0min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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LBC	skyflat	LBCblue+LBCred	Uspec,B-Bessel +YFan,r-sloan		
Giunta	2017TF2	LBCblue+LBCred	g,r+i,z	12+12m	
Vito	J2216	LBCblue+LBCred	r+z	30+30m	completed r and z
Vito	J2216	LBCblue+LBCred	r+Y	30+30m	completed Y
Vito	J0050	LBCblue+LBCred	r+i	1h+1h	script number 2 and 3 r+i completed , FWHM ~0.7"
Vito	J0050	LBCblue+LBCred	r+z	0.83h+0.83h	script number 1 stopped at 50/60 because we were close to the zenith, FWHM ~0.7"
Vito	J013603	LBCblue+LBCred	r+i	30min+30min	script number 1 done
Pentericci	UDS1	MODS1+2	blue grating	4hr	script *_1 done (seeing>1" for 10 minutes of the third exp), script *_2 done.
STD	GD71	MODS1+2	blue grating		for Pentericci

Detailed log at this link:

https://drive.google.com/file/d/1he0dpCDgQuBj-WsXGrX-VcM_tKTd98H9/view?usp=sharing

Further details in the Log by Alex Backer at this link:

<https://drive.google.com/file/d/16FdtuLkAwifNogUJvUSdx4vSWZsdmQZY/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/1ODJMpInST-AA5jDKbKmuoQyA1FcYQXrX/view?usp=sharing>

Summary of LBC calibration files:

<https://drive.google.com/file/d/1ldFCEw3haZD1Mgyslqy7jkDmeT7m-fob/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1Bv-wX_5XLB_wzy9mlK3O2urlHVbOI5ge/view?usp=sharing

-- EsterMarini - 21 Sep 2023

INAF queue observing, 2023 September 20 - September 21

Observer: Ester Marini and Andrea Rossi

Support: Alex Becker

Telescope operator : Josh Williams

Instrument: MODS BINO

Summary

These observations have been performed for the first half by LBTO team under the supervision of Ester Marini and for the second half by Andrea Rossi

At sunset the sky is covered by thick clouds, humidity 70%, T 7.6°C, we stay closed all night for high humidity and clouds.

Night duration (12 degree - twilight) 02:15 - 12:15 UT = * 10h* * 00m*

Observing time: 0h 0min (%)*

Weather time loss: 10h 0min (100%)*

Technical time loss: 0h 0min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
calib		MODS1+2			

Detailed log at this link:

<https://drive.google.com/file/d/1Ov0PLbJ8HILgUwRIT6LYMuhv2yG9kHKd/view?usp=sharing>

Further details in the Log by Alex Backer at this link:

<https://drive.google.com/file/d/1Wr1gpxeM2OYSz0hRSG6uZzU70t3eLzc/view?usp=sharing>

Summary of MODS calib files:

<https://drive.google.com/file/d/18F321QK9hDKiHZaCFZNYyvoxvZOvT6mb/view?usp=sharing>

INAF queue observing, 2023 October 13 - October 14

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Jenny Power

Telescope operator : Josh Williams

Instrument: MODS BINO

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Jenny Power is giving support remotely,

At sunset the sky is cloudy, humidity 47.8%, T 6.8°C, we open at 01:02UT. We stopped the observations at 09:07UT to leave the controls to the SHARK-VIS team.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 6h 10min (59%)*
 Weather time loss: 0h 0min (0%)*
 Technical time loss: 1h 0min (10%)*
 Shark-VIS time loss: 3h 30 min (31%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
calib		MODS1+2			dual_arc, bias 3kx3k
STD	Feige 110	MODS1+2	dual grating		for Giannini and Grazian
Giannini	Gaia17bpi	MODS1+2	dual ima		
Giannini	Gaia17bpi	MODS1+2	dual grating	0.5h/0.5h	seeing ~ 0.8"
Grazian	Q11784	MODS1+2	dual grating	0.17	seeing ~ 0.8-0.9"
Grazian	Q11461	MODS1+2	dual grating	0.23hr	seeing ~ 0.9"
Grazian	Q25522	MODS1+2	dual grating	0.2hr	seeing ~ 0.9"
Grazian	Q22156	MODS1+2	dual grating		seeing ~ 0.9", stopped at 306s/420s of integration on MODS1 and 371/420s on MODS2 because we hit the elev limit
Grazian	Q11854	MODS1+2	dual grating	0.17hr	seeing ~ 1"
Grazian	Q28518	MODS1+2	dual grating	0.2hr	seeing ~ 0.8"
Grazian	Q28229	MODS1+2	dual grating	0.2hr	seeing ~ 0.9"
Giannini	Gaia22agc	MODS1+2	dual ima		seeing ~1"
Giannini	Gaia22agc	MODS1+2	dual grating	0.3hr	seeing ~1"
calib		MODS1+2			bias 8kx3k/1kx1k, flat_ima_ugriz, dual_flat_0.8", dual_flat_1.2"

Detailed log at this link:

<https://drive.google.com/file/d/1MRAwDXfFG6CKD6iv2hKIU-QQoGqP-iSZ/view?usp=sharing>

Further details in the Log by Jenny Power at this link:

<https://drive.google.com/file/d/1R7idH2CPNYFU-H85M8hIQuzA7B32ik84/view?usp=sharing>

Summary of MODS calib files:

https://drive.google.com/file/d/1v3l-qQ-wS3ilkchpU5XoDHR0UN_Jc2OU/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/1LUI-z1sllpOBltMjbUMqBCoRh8oPaph/view?usp=sharing>

INAF queue observing, 2023 October 14 - October 15

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Jenny Power

Telescope operator : Josh Williams

Instrument: LBC BINO

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Jenny Power is giving support remotely,

At sunset the sky is clear. We open at sunset. TMS is not available tonight.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 10h 12min (97%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 18min (3%)*

SHARK-VIS time loss: 0 h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Giunta	2017TF2	LBC BINO	g-i sloan		sent the script 2 times, completed
Vito	J005006	LBC BINO	r-i sloan		*r_i_3, image lbcr.20231015.040105 corrupted
Vito	J005006	LBC BINO	r-z sloan		*r_z_1, *r_z_2, *r_z_3 done
Vito	J013603	LBC BINO	r-i sloan		*r_i_2, *r_i_3 done
Vito	J030331	LBC BINO	r-i sloan		*r_i_1 done, *r_i_2 stopped at 30/60 because we reached the AM limit
Giunta	2005YQ96	LBC BINO	g-i sloan		done script 1 time
calib	skyflats	LBC BINO	rz-sloan		PA0, 180
calib	BIAS	LBC BINO			

Detailed log at this link:

<https://drive.google.com/file/d/1pXnVRU4CM9brqsFnBbGSsqQju5OVpbMR/view?usp=sharing>

Further details in the Log by Jenny Power at this link:

https://drive.google.com/file/d/1JBfEggs-JHw_dCIII8AtpruZUEYBbZrG/view?usp=sharing

Summary of LBC calib files:

<https://drive.google.com/file/d/1f6xFGsgU6U0FCQ5qEiEGNgyyo0Y2DmWc/view?usp=sharing>

Summary of LBC science files:

https://drive.google.com/file/d/1xECLjgJYUVZSYiambUw1u_86QmZIx6p/view?usp=sharing

INAF queue observing, 2023 October 15 - October 16

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Jenny Power

Telescope operator : Josh Williams

Instrument: LBC BINO

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Jenny Power is giving support remotely,

At sunset the sky is clear. We open at sunset. TMS is not available tonight. At 9:00UT we leave the controls to the SHARK-VIS team.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 7h 0min (66.70%)*

Weather time loss: 0h 15min (2.4%)*

Technical time loss: 0h 0min (0%)*

Shark-VIS time loss: 3h 15min (30.9%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Calib	slitless flat	MODS1+1	dual grating		
Calib	skyflat	LBC BINO	SY		PA0,PA180
Calib	skyflat	LBC BINO	gi		PA0
Giunta	morning search	LBC BINO	g i-sloan	0.17hr	search_field_afternoon_1, search_field_afternoon_2, search_field_afternoon_3
Vito	J0050	LBC BINO	r-Y		r_Y_1, r_Y_2 done, r-Y completed
Vito	J013603	LBC BINO	r-z		r_z_1 done, lbc*055089 bad image, r_z_2 done, r_z_3 done

Vito	J01360 3	LBC BINO	r-Y	r_Y_1 done
Calib	flat_5p0	MODS1+1	dual grating	
Calib	flat_1p2	MODS1+1	red grating	
Calib	flat_1p0	MODS1+1	red grating	
Calib	arcs	MODS1+1	red grating	

Detailed log at this link:

https://drive.google.com/file/d/1_r9Sf3_DOuOTDTiAUMIQxLhcGh_Z9nTN/view?usp=sharing

Further details in the Log by Jenny Power at this link:

https://drive.google.com/file/d/1wbkldLlzG0J1SNURRTuka42BxSoK0t_x/view?usp=sharing

Summary of MODS calib files:

https://drive.google.com/file/d/1pIJM6nKMjCCbmh1ygl_VyklkBHIK0927/view?usp=sharing

Summary of LBC calib files:

https://drive.google.com/file/d/1CI0PQcCy9-qyoS_GNijH5EdnKc1jk08Z/view?usp=sharing

Summary of LBC science files:

<https://drive.google.com/file/d/1bvgqfD2I3ZZ7R8dK2MH8ekKNQkfxhwL9/view?usp=sharing>

INAF queue observing, 2023 October 16 - October 17

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Jenny Power

Telescope operator : Josh Williams

Instrument: LBC BINO / MODS1+2

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Jenny Power is giving support remotely,

At sunset the sky is clear. We open at sunset. TMS is not available tonight.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h * 30m*

Observing time: 100h 0min (100%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 0min (0%)*

Shark-VIS time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Calib	bias 3Kx3K	MODS1+2			
Calib	slitless flat	MODS1+2	dual grating		
Calib	skyflat	LBC BINO	rr		PA=0,180
Giunta	2020BS	LBC-BINO	g i, r z sloan	0.22hr	

Vito	J0050	LBC BINO	r-i	1hr	done again r_i_1 in this run, because on run 97 there were clouds
Vito_4	Slug	LBC BINO	Uspec-V	0.5hr	
Vito_4	Slug	LBC BINO	Uspec-r	0.5hr	
Vito_4	Slug	LBC BINO	Uspec-i	0.5hr	
Vito	J01360	LBC BINO	r-Y		stopped at 24/60 due to clouds
Maiorano	GRB 210722A	LBC BINO	r z sloan		script 2 and 3 done, completed
Ighina	DESJ0056-05	MODS1+2	red grating	2.1hr	seeing on average ~1", completed
Giannini	Gaia22efa	MODS1+2	dual grating	0.5hr	seeing ~1"
STD	GD71	MODS1+2	red grating		for Ighina
Biazzo	ID24_LS	MODS1+2	dual grating	1hr	seeing ~1"
Biazzo	ID27_LS	MODS1+2	dual grating	1hr	seeing ~1"
Biazzo	ID34_LS	MODS1+2	dual grating	1hr	seeing ~1"
Calib	flat_5p0	MODS1+2	red grating		
Calib	arcs	MODS1+2 MOS	blue grating		
Calib	slitless flat	MODS1+2 MOS	blue grating		

Detailed log at this link:

<https://drive.google.com/file/d/135pej0uAKCPK646GbBx-nvcn1XuhQZZU/view?usp=sharing>

Further details in the Log by Jenny Power at this link:

<https://drive.google.com/file/d/1A4xZEibKe0xzEAunLWX8YoJghnh8fxQ2/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1uF4tO10nJZvJY7Pbr12O4_6TZqoDswuD/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/1BOu3I1Ar6f7QL6igyvded31CqhzIRu0t/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/16FDe2uYi7gB--EiQBDX1SYf1Osq4h0aD/view?usp=sharing>

Summary of LBC calib files:

https://drive.google.com/file/d/1_rdz6_iTxcxGLTCS6N-TD1WFz0a_YBy5/view?usp=sharing

INAF queue observing, 2023 October 18 - October 19

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Alex Becker
 Telescope operator : Steve Allanson
 Instrument: LBC BINO

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Alex Becker is giving support remotely,

At sunset the sky is clear. We open at sunset. TMS is not available tonight.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 9h 36min (91.4%)*

Weather time loss: 0h 20min (3.2%)*

Technical time loss: 0h 34min (5.4%)*

Shark-VIS time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Calib	Skyflats	LBC BINO	U-bessel-V-bessel		PA=0,180
Giunta	2005TG45	LBC BINO	gi,rz	0.33+0.33hr	sent the script 5 times
Maiorano	GRB191019 A	LBC BINO	ri		fwhm at limit of the requirement
Maiorano	GRB191019 A	LBC BINO	gz		fwhm out of the requirement
Giannini	Gaia21fji	MODS1+2 ima	ugriz		average seeing ~ 1.5"
Giannini	Gaia21fji	MODS1+2	dual grating	0.5h	average seeing ~ 1.5"
Giannini	Gaia22diw	MODS1+2 ima	ugriz		average seeing ~ 1.2"
Giannini	Gaia22diw	MODS1+2	dual grating	0.5h	average seeing ~1.2"
Giannini	Gaia21csu	MODS1+2 ima	ugriz		average seeing ~ 1.5"

Giannini	Gaia21csu	MODS1+2	dual grating	0.5h	variable seeing between 1.2 and 2"
Giannini	Gaia22bvi	MODS1+2 ima	ugriz		variable seeing between 1.2 and 2"
Giannini	Gaia22bvi	MODS1+2	dual grating	0.5h	variable seeing between 1.2 and 2"
Giannini	Gaia23bri	MODS1+2 ima	ugriz		variable seeing between 1.2 and 2"
Giannini	Gaia23bri	MODS1+2	dual grating	0.5h	seeing ~1"
Biazzo	LS_12/ID33	MODS1+2	dual grating	1h	seeing ~1"
Biazzo	LS_14/ID37	MODS1+2	dual grating	1h	seeing ~1"
Biazzo	LS_6/ID17	MODS1+2	dual grating	1h	seeing ~0.8"
STD	GD71	MODS1+2	dual grating		for Giannini and Biazzo

Detailed log at this link:

https://drive.google.com/file/d/1O_DTSyNe9NdC6K9yFBZYUowQjZ79ENvL/view?usp=sharing

Further details in the Log by Alex Becker at this link:

https://drive.google.com/file/d/1I4wtNaAPZANzCRardrE6qovoqG_vBPes/view?usp=sharing

Summary of LBC calib files:

<https://drive.google.com/file/d/1K-wHYnsqFUtmISPQT0Gtn6pc-FkSA5mM/view?usp=sharing>

Summary of LBC science files:

https://drive.google.com/file/d/13qsGCoasSdSYMt2ck_nBRUXkehqLVGxF/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/1IP7TKr5CnBU8A1NbbxFxVM1MketmcyC-/view?usp=sharing>

INAF queue observing, 2023 October 19 - October 20

Observer: Ester Marini, Roberto Speziali, Lorenzo Napolitano

Support: Alex Becker

Telescope operator : Steve Allanson

Instrument: MODS1+2 / LBC BINO

Summary

These observations have been performed at the control room of LBT by Ester Marini with the support of Roberto Speziali and Lorenzo Napolitano (phd student). Alex Becker is giving support remotely,

At sunset the sky is clear. We open at sunset. TMS is not available tonight.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 5h 15min (50%)*

Weather time loss: 0h 0min (0%)*

Technical time loss: 0h 0min 0%)*

Shark-VIS time loss: 5h 15min (50%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Grazian	Q1138594	MODS1+2	dual grating	0.16hr	seeing ~1"
Grazian	Q1203783	MODS1+2	dual grating	0.16hr	seeing ~1"
Grazian	Q1138644	MODS1+2	dual grating	0.23hr	seeing ~1"
Grazian	Q2404192	MODS1+2	dual grating	0.16hr	seeing ~1.2"
Grazian	Q1412329	MODS1+2	dual grating	0.1hr	seeing ~1.2"
Grazian	Q1155156	MODS1+2	dual grating	0.2hr	seeing ~1.2"
Maiorano	GRB191019A	LBC BINO	ri sloan	0.27+0.27 hr	fwhm ~1-1.1"
Maiorano	GRB191019A	LBC BINO	gz sloan	0.27+0.27 hr	fwhm ~1-1.2"
Vito	J013603	LBC BINO	r-Y	0.35+0.35 hr	fwhm ~1", did only the last 7 offset since previous time we took 24/60 (and the last exps were out of requirement) completed
Vito	J030033	LBC BINO	r-i	0.25+0.25 hr	done r_i_2_half (since we already did the first half), r_i_3 30/60 to be done

Detailed log at this link:

<https://drive.google.com/file/d/1pd5DnPQljQ4tQ1E51ZfBInJDUkiCtAXm/view?usp=sharing>

Further details in the Log by Alex Becker at this link:

<https://drive.google.com/file/d/1hk41akhRCMxwzoDpCwuHyKTml9Tt2qOv/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1RV-YHb1TAPYK2fcu8R3Tqb1AzT-Cnpmt/view?usp=sharing>

Summary of LBC science files:

<https://drive.google.com/file/d/1dGklTu9tUcSvI30jHBEV5E2ALVYF6oFi/view?usp=sharing>

INAF queue observing, 2023 October 20 - October 21

Observer: Felice Cusano, Andrea Rossi

Support: Alex Becker

Telescope operator : Steve Allanson

Instrument: MODS1+2 / PEPSI

Summary

These observations have been performed at the remote control room in Bologna by Felice Cusano and Andrea Rossi. Alex Becker is giving support remotely from Tucson. At the sunset there are some clouds, but we can open. We start with MODS. We switch to PEPSi around midnight.

At sunset the sky is clear. We open at sunset. TMS is not available tonight.

Night duration (12 degree - twilight) 01:45 - 12:15 UT = * 10h* * 30m*

Observing time: 10h 5min (96%)*

Weather time loss: 0h 5min (1%)*

Technical time loss: 0h 20min (3%)*

Shark-VIS time loss: 0h 0min (0%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Giannini	Gaia23bab	MODS1-2	dual grating		more exps for clouds completed
Giannini	Gaia23bab	MODS1-2	dual imaging		completed
Grazian	Q25872098	MODS1-2	dual grating		completed
Grazian	Q1169696	MODS1-2	dual grating		completed
Ighina	PSJ2240-10	MODS1-2	dual grating		one exp more for clouds completed
Grazian	Q1146202	MODS1-2	dual grating		completed
Grazian	Q27360072	MODS1-2	dual grating		completed

Giannini	Gaia22ehn	MODS1-2	dual grating	completed one exp more in mods2, no imaging
STD	GD71	MODS1-2	red+dual	
Marini	IRAS_05089	PEPSI	CD3-5	completed SN 130-300
Bellazzini	1025229691651265536	PEPSI	CD3-6	SN 121-118 completed
Bragaglia	M37_GDR3_3451177406853 140864	PEPSI	CD3-5	SN 150-270 completed
Bragaglia	M37_GDR3_3451177406853 140864	PEPSI	CD1-4	SN 80-300 completed
Bragaglia	M37_GDR3_3451177406853 140864	PEPSI	CD1-6	SN 80-320 completed
Bellazzini	590801995997827200	PEPSI	CD3-6	SN 120-110 completed
CALIB		PEPSI		

Detailed log at this link:

https://drive.google.com/file/d/1xMYxHdIAJ0xfKv-HUr7kEor_JvsVhv5b/view?usp=share_link

Further details in the Log by Alex Becker at this link:

https://drive.google.com/file/d/1rHp6Copcl_TCyUcrgVEHyFC843SDEWik/view?usp=share_link

PEPSI log:

https://drive.google.com/file/d/1nbsNH2wCocT_LMpGL5zilfVsa1yFoc50/view?usp=share_link

Summary of MODS science files:

<https://drive.google.com/file/d/1tk6KISU0JPHeTCihpwRrGT1r81pAqfsl/view?usp=sharing>

INAF queue observing, 2023 November 17 - November 18

Observer: Felice Cusano, Ester Marini

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LBC BINO

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset the sky is covered by clouds and humidity is 99%. TMS is not available. LUC11 is not available for all the run due to technical problem. We stayed closed.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: 0 h min (0%)*

Weather time loss: 11h 10min (100%)*

Technical time loss: h min (%)*

Shark-VIS time loss: h min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Calib	all calibration	MODS1-2			see logs for details
Calib	all calibration	LUCI1-2			see logs for details

Detailed log at this link:

https://drive.google.com/file/d/1a6_PoEZzH8KD_gA2DR7kt3SKUEMgoSPu/view?usp=sharing

Further details in the Log by Alex Becker at this link:

https://drive.google.com/file/d/1Qqa6gG6RVKK6_jpYcK3vI8HdidEcZW-X/view?usp=sharing

Summary of MODS calib files:

https://drive.google.com/file/d/1134obzBa7gO_ozleDYMWTIYgch5SEZrM/view?usp=sharing

Summary of LUCi calib files:

https://drive.google.com/file/d/1jagpoVTngCJgol_H29uMpCQ0KR7qCXrb/view?usp=sharing

INAF queue observing, 2023 November 18 - November 19

Observer: Felice Cusano, Simona Paiano

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: PEPSI-PFU BINO

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset the sky is covered by clouds and humidity is 99%. TMS is not available. LUCI1 is not available for all the run due to technical problem.

At 01:30 UT the humidity decreased and we were able to open. Technical problem with the right shutter door while opening. Problem solved around 10:00 UT. We observe with PEPSI.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: **2 h 30 min (23%)**

Weather time loss: **7 h 00 min (62%)**

Technical time loss: **1 h 40 min (15%)**

Shark-VIS time loss: h min (%)

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes	
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Pino	55 Cnc	PEPSI	CD1-CD4	S/N~30 0 on CD1, ~1000 on CD4
Bellazzini	Gaia DR3 6427985537099249 92	PEPSI	CD3-CD6	S/N~88 on CD3, ~95 on CD6
Bellazzini	Gaia DR3 6259838941849713 92	PEPSI	CD3-CD6	S/N~80 on CD3, ~96 on CD6
Bellazzini	Gaia DR3 7544234437680172 80	PEPSI	CD3-CD6	S/N~88 on CD3, ~102 on CD6

Further details in the Log by Alex Becker at this link:

<https://drive.google.com/file/d/1IbVbYhv9BjTpbUDZu1WoLc0flaJu6uDo/view?usp=sharing>

PEPSI log:

<https://drive.google.com/file/d/1qu6LSIeXVF6Rf9Z583rryb3AqEmrfpyl/view?usp=sharing>

-- EsterMarini - 20 Nov 2023

INAF queue observing, 2023 November 19 - November 20

Observer: Ester Marini, Simona Paiano

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LUCI 2

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset there is fog and humidity is 99%. Wind 15 m/s @140° with gusts up to >25 m/s. TMS is not available. LUCI1 is not available for all the run due to technical problem.

We stay closed all night for bad weather.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: 0 h 00 min (0%)*

Weather time loss: * 11 h 10 min (100%)*

Technical time loss: 0 h 00 min (0%)*

Shark-VIS time loss: h min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Detailed log at this link:

Further details in the Log by Alex Becker at this link:

INAF queue observing, 2023 November 20 - November 21

Observer: Andrea Rossi, Simona Paiano

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LUCI 2

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset there is fog and humidity is 99%. We stay closed all night for bad weather. TMS is not available. LUCI1 is not available for all the run due to technical problem.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: h min (%)*

Weather time loss: 11 h 10 min (100%)*

Technical time loss: h min (%)*

Shark-VIS time loss: h min (%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
calib	dark	LUCI2			2.51s x 24 ndit

Further details in the Log by Alex Becker at this link:

Summary of LUCI calib files:

<https://drive.google.com/file/d/1guI60moE7a4Lu7P4a0L0gI76WSR7Dw9I/view?usp=sharing>

-- EsterMarini - 22 Nov 2023

INAF queue observing, 2023 November 21 - November 22

Observer: Ester Marini, Andrea Rossi

Support: Alex Becker

Telescope operator : David Gonzalez Huerta

Instrument: LUCI 2

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset the sky is clear, Humidity 53%, Wind 20-22 m/s @65°. We stay close due to high wind, we open at 9:50 UT.

TMS is not available. LUCI1 is not available for all the run due to technical problem.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: 1h 40min (7%)*

Weather time loss: 9h 00min (88%)*

Technical time loss: 0h 30 min (5%)*

Shark-VIS time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Giannini	Gaia22bv i	LUCI2	ima JHK		1m completed
Telluric	HIP19813	LUCI2	G200 zj HK		
Giannini	Gaia22bv i	LUCI2	G200 zj HK	0.6h/1h	

Detailed log at this link:

https://drive.google.com/file/d/1lfNXeNkfzqte_W-3kakwr63mYdO4I8l/view?usp=drive_link

Further details in the Log by Alex Becker at this link:

https://drive.google.com/file/d/1LFNTyFufvp_tsrAPH3z-NRdtQ29mUolz/view?usp=drive_link

Summary of LUCI science files:

<https://drive.google.com/file/d/1z4NSyWZssjckJVuzN7SHePv-SoNG5DnV/view?usp=sharing>

INAF queue observing, 2023 November 22 - November 23

Observer: Felice Cusano, Ester Marini

Support: Andrew Cardwell

Telescope operator : Ricardo Ansaldi

Instrument: LUCI 2

Summary

These observations have been performed by Alex Becker with the support of LBT-Italia-obs remotely.

At sunset the sky is clear and weather conditions are good we can open. We use LUCI2 up to 05:30 then we give the telescope to SHARK.

We switch again to LUCi after 4 hours. Several problems during the night for collimation and pointing. TMS is not available. LUCI1 is not available for all the run due to technical problem.

Night duration (12 degree - twilight) 01:30 - 12:40 UT = * 11h* * 10m*

Observing time: 6h 10min (55%)*

Weather time loss: h min (%)*

Technical time loss: 1 h 0 min (9%)*

Shark-VIS time loss: 4h 0min (36%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
Troja	GRB23117A	LUCI2	K, J, H	1.2h/1.2h	completed
Giannini	Gaia22dwi	LUCI2	zJspec, HKspec	0.5h	completed spectroscopy no imaging, early HKspec are wrong
Telluric	BD493793	LUCI2	zJspec, HKspec		for Giannini
Telluric	HIP19813	LUCI2	zJspec, HKspec		for Giannini
Giannini	Gaia22efa	LUCI2	ima JHKs		seeing 0.9"
Giannini	Gaia22efa	LUCI2	zJspec, HKspec	0.25h	completed spectroscopy , reduced time to avoid saturation
Giannini	Gaia22bvi	LUCI2	ima JHKs		seeing 0.9"
Giannini	Gaia22bvi	LUCI2	zJspec, HKspec	0.17h	completed spectroscopy reduced time to avoid saturation
Telluric	HIP19813	LUCI2	zJspec, HKspec		for Giannini
Giannini	Gaia23bri	LUCI2	zJspec, HKspec	0.5h	completed spectroscopy no imaging and telluric since we had to close, but HIP19813 should be fine for this target too (see log)

Detailed log at this link:

https://drive.google.com/file/d/1OF_P4xyjLQIEGFvrf7c1ErDIdASJZ5Vx/view?usp=sharing

Further details in the Log by Alex Becker at this link:

https://drive.google.com/file/d/1U8WyPKngavppNy_Ekv_Xh0sANSO8QfRu/view?usp=sharing

Summary of LUCI calib files:

https://drive.google.com/file/d/1bkYDbH4jBpe89BLOXU0eIG_JOcndb4bz/view?usp=sharing