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Abstract: This document presents the Annual Observing Report for 2025, 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 2024–2025 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, and SHARK (VIS and NIR). 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 observing, 2025 January 19 - January 20

Observer: Felice Cusano, Andrea Rossi
Support: Alexander Backer
Telescope operator: David Gonzales-Huerta
Instrument: MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano and Andrea Rossi. At sunset sky is clear, but we stay closed for high wind gusts. The SHARK team is supposed to start with observations.

Opening at 03:15, we start with MODS. Bad seeing at beginning we observe backup program. At 06:05 we switch to PEPSI due to bad seeing. We finished the night switching to MODS for a quick transient target.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 10h 00min (83%)*

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

Technical time loss: 1h 30min (12%)*

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

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_to t	Notes
Grazian	Q1276561834	MODS1-2	dual grating	0.47h	seeing 2", x2 exp time
Grazian	Q1520401680	MODS1-2	dual grating	0.47h	seeing 2", x2 exp time
Ighina	PSOJ0721	MODS1-2	dual grating	1.3h	seeing 1"-2.5", check data, maybe to repeat
Rainer	WASP36	PEPSI PFU	D200 CD1-4	0.66+0.66h	SNR~30-90 repeated, see below
Rainer	WASP36	PEPSI PFU	D200 CD2-5	1+1h	Exp doubled SNR ~80-160 completed
Rainer	WASP36	PEPSI PFU	D200 CD1-4	0.5+0.5h	SNR ~30-100 completed
Rainer	WASP36	PEPSI PFU	D200 CD3-6	1+1h	Exp doubled SNR ~105-150 completed
Ripepi	DR3845159992310748672	PEPSI PFU	D300 CD2-6	0.66+0.66h	Exp doubled SNR 60-100 completed
Izzo	SN_jan25	MODS1-2	dual grating	1hr	900x2 per MODS, bad seeing 1.5-2"
Izzo	SN_jan25	MODS1-2	ugriz imaging	0.05h	, bad seeing 1.5-2"
STD	Feige34	MODS1-2	dual grating		
CALIB		MODS1-2			

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1u2Nm3BqsT7dHISdVgdo5TYBzDd8UgzdW/view?usp=sharing>
log from A. Becker :

<https://drive.google.com/file/d/1fxxJm-rXXSJC4HPcR6pnw57GIhL6juXN/view?usp=sharing>
PEPSI log :

https://drive.google.com/file/d/12icykPYaME_z3TnUSnbnmHI3g6PzocSa6/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/1eB8Vh1nljSaCex4rKL0Vv7ZgNY5I3R19/view?usp=sharing>

INAF queue observing, 2025 January 20 - January 21

Observer: Ester Marini, Felice Cusano
Support: Alexander Backer
Telescope operator: David Gonzales-Huerta
Instrument: MODS, PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and Felice Cusano. At sunset sky is clear, wind speed ~11m/s. The SHARK team decided to make an attempt and start the night, but they gave up at 1:29UT. Then we take the telescope and we start with MODS bino, with seeing between 2.5 and 3".

At 07:30 we switch to PEPSI.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h * 00m*

Observing time: 0h 00min (71%)*

Weather time loss: 2h 30min (21%)*

Technical time loss: 1 h 0min (8%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
STD	GD71	MODS1-2	red, blue grating		
Grazian	Q1098166672	MODS1-2	dual grating	0.28hr+0.23hr	seeing 2-2.5", x2 exp time, but stopped 3 minutes earlier on MODS2 because we lost the GS
Grazian	Q1186923256	MODS1-2	dual grating	0.5hr	seeing 2-2.5", x2 exp time

Malizia	IGRJ0234	MODS1-2	dual grating	0.07hr	seeing 2-2.5", x2 exp time
Malizia	IGRJ0324	MODS1-2	dual grating	0.12hr	seeing 2-2.5", took 1 exp more
Malizia	LEDA97012	MODS1-2	dual grating	0.5hr	seeing 2-2.2", took 1 exp more
Malizia	SWIFTJ0357	MODS1-2	dual grating	0.44hr	seeing 2-2.2", took 1 exp more
Malizia	SWIFTJ0516	MODS1-2	dual grating	0.44hr	seeing 2-2.2", took 1 exp more
Ceccarelli	399208019362718963 2	PEPSI1-2	CD1-4	1.67 hr	seeing 2-3", x2 exp time, S/N=84 CD1
STD	HR3454	PEPSI1-2	CD123-456	2 min	seeing 2-3" standard star
Ceccarelli	759407156314566784	PEPSI1-2	CD1-4	0.53hr	seeing 2-3", x2 exp time,
Ceccarelli	392182775716454220 8	PEPSI1-2	CD1-4	0.33hr	seeing 2-3", x2 exp time,

Ripepi	356969647962576640 0	PEPSI1-2	CD2-46	1.12 hr	seeing 2-4", x3 exp time,
Ceccarelli	155547240396336832 0	PEPSI1-2	CD1-4	0.033hr	seeing 2-3", x2 exp time,

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1iEcaTE9_Vf2J-gaqvZefzEKzztxaG89O/view?usp=sharing

log from A. Becker :

<https://drive.google.com/file/d/1iwid7ZnxwQOr1To-7HCHbYwNBqKaCWOH/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/14FGSeHhtemQTIArH9CmwOF-5Uzqg3J2-/view?usp=sharing>

Summary of MODS calibrations files:

<https://drive.google.com/file/d/1dUUQN2ty3nXgkklIwWgPsT5dUsSqKSRf/view?usp=sharing>

INAF queue observing, 2025 January 21 - January 22

Observer: Andrea Rossi, Ester Marini

Support: Alexander Backer

Telescope operator: Josh Williams

Instrument: MODS, PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and Andrea Rossi.

At sunset sky is clear, SHARK-VIS starts the night and they give back the telescope to us at 02:50UT. We start with MODS and then switch to PEPSI at 10:08UT.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 8h 52min (73.9%)*

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

Technical time loss: 1h 35min (13.2%)*

Shark-VIS time loss: 1h 33min (12.9%)*

Data Summary

Project_RUN	Objects	Instrumen t	Configuratio n	ExpTime /Time_to t	Notes
Maiorano	EP250108a	MODS1-2	dual grating	1hr	FWHM ~1.5"
Maiorano	EP250108a	MODS1-2	ima gr	0.4hr	FWHM ~1.5"
Ighina	PSOJ0721	MODS1-2	red grating	1.2hr	FWHM ~1"

Vietri_carryover	J0747	MODS1	red grating	1hr	we used only MODS1 due to straylight issue on MODS2 (see log for details), FWHM 0.7"-1"
Vietri_carryover	J0747	MODS1	blue grating	0.5hr	FWHM 0.7-1", clouds prevents us to start the remaining 0.5hr
Ripepi	3585871223384619648	PEPSI	D300/CD2-C D4	0.6hr	S/N 84 on the red, 56 on the blue
Ripepi	3585871223384619648	PEPSI	D300/CD2-C D6	0.6hr	S/N on the red 98, on the blue 60
Ceccarelli_7	3934607827491701120	PEPSI	D300/CD3-C D6	0.27hr	S/N 116 on the red, 75 on the blue
Ceccarelli_7	1663526565583570944	PEPSI	D300/CD3-C D6	0.27hr	S/N 78 on the red, 65 on the blue
Ceccarelli_7	1441503866214234112	PEPSI	D300/CD3-C D6	0.18hr	S/N 73 on the red, 62

						on the blue
Ceccarelli_7	123612409210130099 2	PEPSI	D300/CD3-C D6	0.27hr		S/N 75 on the red, 65 on the blue
Ceccarelli_7	169367630828891571 2	PEPSI	D300/CD3-C D6	0.33hr		S/N 150 on the red, 110 on the blue
Ceccarelli_7	121326305063266854 4	PEPSI	D300/CD3-C D6	0.27hr		S/N 68 on the red, 50 on the blue
Ceccarelli_7	142893284053691865 6	PEPSI	D300/CD3-C D6	0.27hr		S/N 68 on the red, 58 on the blue
Ceccarelli_7	143014175357162368 0	PEPSI	D300/CD3-C D6	0.27hr		S/N 71 on the red, 66 on the blue
CALIB		MODS1-2				red flat 0.6, MODS red flat slitless

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1GgX1neViNwpgq3Lz7mA1k0uFp43Y5kQu/view?usp=sharing>

log from A. Becker :

https://drive.google.com/file/d/1VwChS-qpNdZrd_w9wAe8j_Y6cFQBUZ2H/view?usp=sharing

Summary of MODS calib files:

<https://drive.google.com/file/d/15buaogMqAg580Mxu9W0-HUsIC1kIrXsZ/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1vkalbrgGEMbieKoe5IEkzxXTAH8ieR-x/view?usp=sharing>

INAF queue observing, 2025 January 22 - January 23

Observer: Andrea Rossi, Ester Marini
 Support: Alexander Backer
 Telescope operator: Josh Williams
 Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and Andrea Rossi. At sunset sky is cloudy and the wind is from north above 15 m/s. SHARK will not observe tonight, we start with MODS and we switch to PEPSI at 9:29UT.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 11h 13min (93.5%)*

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

Technical time loss: 0h 47min (6.5%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_to t	Notes
Farina DDT	Didymos	MODS1-2	dualgrating	1h+1h	3x20min for side, before Primary
Farina DDT	Didymos	MODS1-2	dualgrating		during Primary
Farina DDT	LandSA98 -978	MODS1-2	dualgrating		solar Analog
STD	Feige34	MODS1-2	dual grating		
Vietri_carryover	J0747	MODS1-2	blue grating	0.75hr	fwhm ~ 1.2-1.8", we took an additional 15mins to compensate the variable seeing. Only MODS1 data are good (see yesterday's log for details)

Ighina	J10+17	MODS1-2	red grating	1.3hr	variable seeing up to 2.5". We need to retake at least a couple of spectra with good conditions
Ceccarelli_7	1248119149780940416	PEPSI PFU	D300/CD3-C D6	0.18hr	S/N 72 on the red, 55 on the blue
Ceccarelli_7	1577319631286280960	PEPSI PFU	D300/CD3-C D6	1hr	S/N 116 on the red, 72 on the blue
Ceccarelli_7	1578782394069199488	PEPSI PFU	D300/CD3-C D6	0.83hr	S/N 119 on the red, 83 on the blue
Ceccarelli_7	1442437832622477312	PEPSI PFU	D300/CD3-C D6	0.07hr	S/N 72 on the red, 63 on the blue
Ceccarelli_7	1450009756886080512	PEPSI PFU	D300/CD3-C D6	0.07hr	S/N 72 on the red, 61 on the blue
Ceccarelli_7	1251589891377119744	PEPSI PFU	D300/CD3-C D6	0.07hr	S/N 77 on the red, 67 on the blue
Ceccarelli_7	3726623482130353920	PEPSI PFU	D300/CD3-C D6	0.07hr	S/N 74 on the red, 63 on the blue
Ceccarelli_7	3727921215088631296	PEPSI PFU	D300/CD3-C D6	0.18hr	S/N 68 on the red, 59 on the blue
Ceccarelli_7	3936255033348033920	PEPSI PFU	D300/CD3-C D6	0.18hr	S/N 79 on the red, 66 on the blue
Ceccarelli_7	1177821324103027968	PEPSI PFU	D300/CD3-C D6	0.11hr	S/N 67 on the red, 60 on the blue

Ceccarelli_7	118137948116958617 6	PEPSI PFU	D300/CD3-C D6	0.18hr	S/N 72 on the red, 60 on the blue
Ceccarelli_7	118985973948036403 2	PEPSI PFU	D300/CD3-C D6	0.18hr	S/N 78 on the red, 63 on the blue
Ceccarelli_7	12047728623624202 24	PEPSI PFU	D300/CD3-C D6	0.11hr	S/N 64 on the red, 58 on the blue
Ceccarelli_7	12922658473064871 68	PEPSI PFU	D300/CD3-C D6	0.28hr	S/N 73 on the red, 52 on the blue
Ceccarelli_7	12138905625342456 32	PEPSI PFU	D300/CD3-C D6	0.07hr	S/N 71 on the red, 62 on the blue
Ceccarelli_7	12292435931483580 16	PEPSI PFU	D300/CD3-C D6	0.03hr	S/N 65 on the red, 60 on the blue

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1M66GBrd4Vklv6t-cVJhzaO1sAR64apJV/view?usp=sharing>

log from A. Becker :

<https://drive.google.com/file/d/1eOIJXhZevCjrxZi0DBqQM5ATy9PJ2Lz/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/16PA2mbsDVfU1rEfdAyz0JBFX3LnUZ-go/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1v2i5n2WvY0jV0DQNbqjMKaQZES44PXmZ/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/138fNQtZ6TGVC0zMoAta_DZuSluV0X8gm/view?usp=sharing

INAF queue observing, 2025 January 23 - January 24

Observer: Ester Marini, Felice Cusano

Support: Alexander Backer

Telescope operator: Joshua Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and Felice Cusano.

At sunset the sky is clear but there are wind gusts with speed >22m/s and sustained wind speed is ~18m/s. We reconfigure to MODS and open at 01:53UT.

At the end of the night the seeing was good and we observe high priority program.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 11h 40min (97%)*

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

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

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

Data Summary

Project_RU N	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB		MODS1-2			Blue slitflats 1p2, Bias 3kx3k 1x1, Bias 1kx1k 1x1, Imaging flat ugriz
CALIB		LUCI2			Darks
Grazian	Q1118718047	MODS1-2	dual grating	0.23hr	fwhm ~2"
Grazian	Q1215718026	MODS1-2	dual grating	0.2hr	fwhm ~1.5-2"
Grazian	Q1182175843	MODS1-2	dual grating	0.43hr	fwhm ~1.2-2.2", took additional exposure due to very variable seeing
Grazian	Q1314919718	MODS1-2	dual grating	0.27hr	fwhm ~2"
Grazian	Q1373789800	MODS1-2	dual grating	0.22hr	fwhm ~1.8-2"
Grazian	Q1512328730	MODS1-2	dual grating	0.17hr	fwhm ~1.5-2"
Malizia	SWIFTJ1033	MODS1-2	dual grating	0.03hr	fwhm ~1.5-2"
STD	GD71	MODS1-2	blue grating		
Ighina	J10+17	MODS1-2	red grating		2 offset done, target completed
Bevacqua	12376648697452300 95	MODS1-2	dual grating	1.5/2.2h	seeing 1-1.2" completed
Piconcelli	J1103	MODS1-2	dual grating	0.75h	seeing 1.2-1.6" completed
Bevacqua	12376646678871409 86	MODS1-2	red & blue grating	1.7h/1.7h	completed , seeing 1"

Bevacqua	12376546058577512 21	MODS1-2	red & blue grating	1.3h/1.3h	completed , seeing 0.9-1"
Bevacqua	12376618122728571 87	MODS1-2	red & blue grating	1.55h/1.55 h	completed , seeing 0.8"
Bevacqua	12376646716407154 58	MODS1-2	red & blue grating	0.7h/0.7h	completed , seeing 0.7"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/11hKcsf7GbuQpjdXlrDNNewm1hP-ZsCr9P/view?usp=sharing>

log from A. Becker :

<https://drive.google.com/file/d/1rzkgTWU7I1BGTExBf8uMYWR5sev8UG5t/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1Dk59j7GTuGTz1iB-y7NpRQPtiz0s8iOw/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1fwfEKbCcEVO8FGLFri6avQgv2V1jg4k4/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1zj5b-GpsfoJJQvBDosSvji0c31eVFOwP/view?usp=sharing>

INAF queue observing, 2025 January 24 - January 25

Observer: Andrea Rossi, Felice Cusano

Support: Dave Thompson

Telescope operator: Joshua Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano.

At sunset the sky is cloudy. We stay closed. We open at 03:00 UT, but we could observe only

one scientific target. Then closed all the night for high wind and clouds.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 1 h 0 min (8%)*

Weather time loss: 10h 20 min (87%)*

Technical time loss: 0h 40 min (5 %)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Palazzi	ZTF24abtmueg	MODS1-2	dual grating	1.2h	double exposure due to clouds
STD	G191	MODS1-2	dual grating		passing clouds
STD	G191	MODS1-2	red grating		passing clouds

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1L8GRtFLWADFJqYGjbVsxeLREy9q0q2ff/view?usp=sharing>

log from D. Thompson :

https://drive.google.com/file/d/1yBbZLcpUCiB_gguBH_1Drd7BnJ0L1Nhe/view?usp=sharing

Summary of MODS calibration files:

<https://drive.google.com/file/d/1h-juL6KYdNFsBomzNOTdNNziJNuDB2en/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/16F_p2Pk4fK_mTRFUTAtA4WrU0xEZsfZ5/view?usp=sharing

INAF queue observing, 2025 January 25 - January 26

Observer: Felice Cusano, Ester Marini

Support: Dave Thompson

Telescope operator: Joshua Williams

Instrument: MODS, PEPSI

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano. At sunset the sky is cloudy, but we can open. We observed with MODS two backup target and then we switch to PEPSI for the planetary transit and due to increasing clouds and poor seeing we used PEPSI until the end of night.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 10h 57min (91.2%)*

Weather time loss: 0h 56min (7.8%)*

Technical time loss: 0h 7min (1%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to t	Notes
Malizia	IGRJ0405	MODS1-2	dual grating	2h/1.5h	completed
Grazian	Q96440774074830388	MODS1-2	dual grating	0.2h	completed
Pino	55 Cnc	PEPSI1-2			transit
Ceccarelli_7	698151522476505344	PEPSI1-2	D300/CD3-C D6	1hr	S/N 150 on the red, 114 on the blue
Rainer	TOI-1268	PEPSI1-2	D200/CD1-C D4	0.14hr	S/N 46,90, too low, we have to retake it

Rainer	TOI-1268	PEPSI1-2	D200/CD2-C D5	0.28hr	S/N 61, 162. Doubled exp time since during the first exp we had S/N below requested value
Rainer	TOI-1268	PEPSI1-2	D200/CD3-C D6	0.28hr	S/N 86, 121. Doubled exp time
Rainer	TOI-1268	PEPSI1-2	D200/CD1-C D4	0.28hr	S/N 30, 111, Doubled exp time but S/N maybe still to low on the blue side. We will ask the PI.
Ceccarelli_7	164269157615253248 0	PEPSI1-2	D300/CD3-C D6	0.06hr	S/N 69,72, doubled exp time due to clouds
Ceccarelli_7	124651795161305868 8	PEPSI1-2	D300/CD3-C D6	0.11hr	S/N 30,60
Ceccarelli_7	126462666760488089 6	PEPSI1-2	D300/CD3-C D6	0.33hr	S/N 56,77 x3 exp time due to clouds
Ceccarelli_7	127290557784571302 4	PEPSI1-2	D300/CD3-C D6	0.21hr	S/N 66,103 x3 exp time due to clouds

Ceccarelli_7	127587041095241523 2	PEPSI1-2	D300/CD3-C D6	0.21hr	S/N 43,79, x3 exp time due to clouds
Ceccarelli_7	128372453174374707 2	PEPSI1-2	D300/CD3-C D6	0.33hr	S/N 67,103, x4 exp time due to clouds
Ceccarelli_7	128389299754096409 6	PEPSI1-2	D300/CD3-C D6	0.1hr	S/N 64,102, x3 exp time due to clouds
Ceccarelli_7	128487644197263475 2	PEPSI1-2	D300/CD3-C D6	0.54hr	S/N 76,94, x3 exp time due to clouds
Ceccarelli_7	139346314518023936 0	PEPSI1-2	D300/CD3-C D6	0.54hr	S/N 71,79, x3 exp time due to clouds
Ceccarelli_7	139468057943054489 6	PEPSI1-2	D300/CD3-C D6	0.87hr	S/N 68,83
Ceccarelli_7	140301199135081075 2	PEPSI1-2	D300/CD3-C D6	0.03hr	S/N 38,73
Ceccarelli_7	137287901619844736 0	PEPSI1-2	D300/CD3-C D6	0.27hr	S/N 37,72, increased exp time of the 50% due to thin clouds
Ceccarelli_7	138654951914392230 4	PEPSI1-2	D300/CD3-C D6	0.17hr	S/N 31,70 increased exp time of the 50% due to thin clouds

Ceccarelli_7	140601248986379366 4	PEPSI1-2	D300/CD3-C D6	0.11hr	S/N 32,67 increased exp time of the 50% due to thin clouds
Ceccarelli_7	143083578592686732 8	PEPSI1-2	D300/CD3-C D6	0.11hr	S/N 35,68 increased exp time of the 50% due to thin clouds
Ceccarelli_7	162512993591548083 2	PEPSI1-2	D300/CD3-C D6	0.11hr	S/N 39,72 increased exp time of the 50% due to thin clouds

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1slkh8MaZe1n3t3otyOFUXCx1fLiGI0fZ/view?usp=sharing>

log from D. Thompson :

https://drive.google.com/file/d/19jkd8_W05x-r0QiiwGI4mBCadm678Wx/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/1pBMfZyrGXuO1HgbWUMPT3pxfURvhVTU/view?usp=sharing>

INAF queue observing, 2025 January 26 - January 27

Observer: Andrea Rossi, Felice Cusano

Support: Dave Thompson

Telescope operator: Joshua Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano. At sunset the sky is clear. SHARK-VIS starts the night but gives back the telescope after 1:45 hours because of the bad seeing. We start with MODS.

Switching to LUCi at 08:00. Closed for high wind at 08:30

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 4 h 30 min (37%)*

Weather time loss: 5 h 45 min (48%)*

Technical time loss: h min (%)*

Shark-VIS time loss: 1 h 45 min (15%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
STD	G191	MODS1-2	dual grating		
STD	G191	MODS1-2	red grating		
Grazian	Q1315414660	MODS1-2	dualgrating 1.2"	0.3h	completed
Grazian	Q123471298168308103	MODS1-2	dualgrating 1.2"	0.17h	completed
Piconcelli	J1127+64	MODS1-2	dualgrating 1"slit	1.1/0.75h	completed
Grazian	Q107171336416955636	MODS1-2	dualgrating 1.2"	0.17h	completed
Serafinelli	MCG+11-11	MODS1-2	dualgrating		seeing 1.5", check with PI

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1lvdJW-OQz6itsY2HswSvHbB54hGtDhdc/view?usp=sharing>

log from D. Thompson :

<https://drive.google.com/file/d/1NZhREeWVIl63USWGAvU4A3F8pGupXwa/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1ljXvfCt-G05W-jZ8Haj0wv32xEn9nZVF/view?usp=sharing>

INAF queue observing, 2025 January 27 - January 28

Observer: Ester Marini, Andrea Rossi

Support: Justin Rupert

Telescope operator: Joshua Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and Andrea Rossi.

At sunset the sky is clear. Wind gusts are >10m/s and temperature is -6C: SHARK-VIS team decided that they will not observe tonight, we start with MODS. At 05:35 UT we closed for ice on the dome and we stay closed. Night was called at 12:05 UT

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 3 h 49 min (33%)*

Weather time loss: 8 h 0 min (66%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Palazzi	SN2023iop	MODS1-2	dual grating	2hr	done 3.3 hr but bad seeing (~1.8") during: first half 1st exp; 2nd exp; half of the 4th
Grazian	Q94140778874184430	MODS1-2	dual grating	0.17hr	seeing 1.5" on average
Grazian	Q12051127983082382 9	MODS1-2	dual grating	0.17hr	seeing 1.5". lost the preset 12 second earlier on MODS2 due to wind

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1WOUu8H-Cxf-w7poTHH8pFpv_WXZRfNBQ/view?usp=sharing
log from J. Rupert :

<https://drive.google.com/file/d/1FCns6W7UDwv2bNkwd29FoD1umOW-lrdx/view?usp=sharing>
Summary of MODS science files:

https://drive.google.com/file/d/1cSi6oJkukfUff_3K9N58C4ls6NkDGjdu/view?usp=sharing

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1nd6n2s7OpbyPqXj-tSIPk3ytoNmDdNZ9/view?usp=sharing>

INAF queue observing, 2025 January 28 - January 29

Observer: Andrea Rossi

Support: Justin Rupert

Telescope operator: Steven Allanson

Instrument: PEPSI

Summary

These observations have been performed in C-19 mode by Andrea Rossi.
At sunset the sky is covered with clouds. First part of the night is ECD time and managed by LBTO. The Telescope operator called the night in the evening because of bad weather and ice formations.

Night duration (12 degree - twilight) 7:30 - 13:30 UT = * 6h * 00m*

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

Weather time loss: 6 h 0 min (100%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB		LUCI2			

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/15WbSXmXT50GFKG7P4WaAiH4f1Dlj5IXB/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1eB92U7EHhViYVj5Rq_LqJv601q_ljWjWO/view?usp=sharing

INAF queue observing, 2025 January 29 - January 30

Observer: Felice Cusano, Ester Marini

Support: Justin Rupert

Telescope operator: Steven Allanson

Instrument: PEPSI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Ester Marini.
At sunset the sky is covered with clouds and the Dome is closed for ice and snow. The Telescope operator called the night in the evening because of bad weather and ice formations.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h * 00m*

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

Weather time loss: 12 h 0 min (100%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
LUCI cal					

Summary of LUCI calibration files:

https://drive.google.com/file/d/15YexxO_8nuHji-Tv_dAuTQ0mTG6SFNsY/view?usp=sharing

INAF queue observing, 2025 January 30 - January 31

Observer: Felice Cusano, Andrea Rossi

Support: Justin Rupert
Telescope operator: Steven Allanson
Instrument: SHARK,MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano and Andrea Rossi. At sunset the sky is clear we can open. SHARK-VIS starts the night.

Switching back to INAF at 05:10. We start with MODS.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 8 h 20 min (69%)*

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

Technical time loss: 0h 10min (1%)*

Shark-VIS time loss: 3 h 40 min (30%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Ceccarelli 9	Kosopov 2	MODS1-2	dual grating	1.3h	mask seeing 0.8-1"
Mazzolari 36	mask_26	MODS1-2	dual grating maskID 594644	2h+2h	seeing 0.8-1" check slits
Mazzolari 36	mask_15	MODS1-2	dual grating maskID 554456	2h+2h	seeing 0.5-0.8"
Maiorano 23	GRB250129A	MODS1-2	dual ima ugiz	0.2+0.2h	seeing 0.7"
Ighina 39	eRASSJ1438-11	MODS1-2	red grating slit1"	1h	seeing 0.9" completed
Bevacqua 42	12376654291692425 91	MODS1-2	blue+red grating	0.2+0.2h	only first exp in twilight; seeing 0.7"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1g563A-ynRyeuCs8O6LkFoDHeb8B2PExD/view?usp=sharing>

log from J. Rupert :

<https://drive.google.com/file/d/1oFONwQBmpBkAaiqJTObhghnpOM6uDTCv/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1ef8yVESPFgc1SMfbYaOsM690zr7grOrC/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/11wgq-ryTbyi3Nvd3zYqTeobwGXhUKhnA/view?usp=sharing>

INAF queue observing, 2025 January 31 - February 01

Observer: Ester Marini, Andrea Rossi
 Support: Justin Rupert
 Telescope operator: Steven Allanson
 Instrument: SHARK-VIS, PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and Andrea Rossi
 At sunset the sky is clear, wind is ~2m/s, humidity 10%. SHARK-VIS starts the night and finish to observe Taurus at 4:55UT. We stay with SHARK-VIS to observe one target from INAF program and then we use to PEPSI from 07:29UT till the end of the night.

Night duration (12 degree - twilight) 1:30 - 13:30 UT = * 12h* * 00m*

Observing time: 8h 52min (74%)*

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

Technical time loss: 0h 8min (1%)*

Shark-VIS time loss: 3h 0min (25%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Marini	IC2149	SHARK-VI S	Halpa 1nm	20min	done twice due to clouds
Marini	IC2149	SHARK-VI S	cont_Halpa	10min	done twice due to clouds
Marini	IC2149	SHARK-VI S	Halpa 5nm	20min	done twice due to clouds
Marini	IC2149	SHARK-VI S	[SII]	20min	done twice due to clouds
Marini	IC2149	SHARK-VI S	V	10min	done twice due to clouds
Marini	IC2149	SHARK-VI S	[OIII]	20min	done twice due to clouds

Marini	IC2149	SHARK-VI S	[O]	20min	done twice due to clouds
Ceccarelli_7	3869876996687740032	PEPSI PFU	D300/CD1-4	2hr	doubled exp time due to clouds, SNR 30-110
Ceccarelli_7	759407156314566784	PEPSI PFU	D300/CD1-4	1.11hr	doubled exp time due to clouds, SNR 40-110
Ceccarelli_7	3975506705106268928	PEPSI PFU	D300/CD3-6	0.11hr	x4 exp time due to clouds, SNR 60-80
Ceccarelli_7	3941991907064858240	PEPSI PFU	D300/CD3-6	0.2hr	x3 exp time due to clouds, SNR 60-70
Ceccarelli_7	3992080193627189632	PEPSI PFU	D300/CD1-4	1.25hr	x1.5 exp time due to clouds, SNR 50-80
Ceccarelli_7	3735399547720979456	PEPSI PFU	D300/CD3-6	0.11hr	x4 exp time due to clouds, SNR 60-70

Ceccarelli_7	1578782394069199488	PEPSI PFU	D300/CD1-4	1.67hr	x2 exp time due to clouds, SNR 50-100
Ceccarelli_7	1577319631286280960	PEPSI PFU	D300/CD1-4	1.5hr	x1.5 exp time due to clouds, SNR 50-110
Ceccarelli_7	1698151522476505344	PEPSI PFU	D300/CD1-4	1.22hr	x1.5 exp time due to clouds, SNR 50-110
Ceccarelli_7	1693676308288915712	PEPSI PFU	D300/CD1-4	0.5hr	x1.5 exp time due to clouds, SNR 60-95

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1CMp9jibYd8O5uwOQg_H0p7sqkoCxCuTW/view?usp=sharing

log from J. Rupert :

<https://drive.google.com/file/d/1DVu4U2OODIORI0Y-IzCaISjNIP28i5wF/view?usp=sharing>

INAF queue observing, 2025 February 01 - February 02

Observer: Ester Marini

Support: Jennifer Power

Telescope operator: Steven Allanson

Instrument: SHARK-VIS, MODS

Summary

These observations have been performed in C-19 mode by Ester Marini.

At sunset there are thin clouds passing by. SHARK-VIS starts the night and gives back the telescope to us at 4:30 UT. At that point the sky is clear (only thin clouds at the horizon) and DIMM ~1", so we use MODS for the rest of the night.

Night duration (12 degree - twilight) 1:30 - 7:30 UT = * 6h * * 00m*

Observing time: 2h 50min (47.2%)*

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

Technical time loss: 0h 10min (2.8%)*

Shark-VIS time loss: 3h 0min (50%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Serafinelli	MCG+11-11	MODS1-2	dual grating	1.4hr	FWHM~0.8", took one exp more due to thin clouds passing by
STD	GD71	MODS1-2	dual grating		
Mazzolari	Mask16	MODS1-2	MOS dual grating	0.67+0.67hr	did only 2 offsets (1/3 of the script) since we had to give the telescope to AZ

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1DrlEg1A2csO0LeMKn4RMFInzNk4azh8R/view?usp=sharing>

log from Jennifer Power:

<https://drive.google.com/file/d/1z7mMRqghGAbewy1NQhQc8AaGLrwAlp9f/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1K1bC6TpR-SftwTOeAKROWdMi6AGeMeCf/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1WBU4z7ziSV0AgaSFo3uegCg6ANJXc6M3/view?usp=sharing>

INAF queue observing, 2025 February 17 - February 18

Observer: Felice Cusano, Ester Marini, Silvia Tosi, Andrea Rossi

Support: Justin Rupert

Telescope operator: Josh Williams

Instrument: SHARK-VIS - LUCI2

Summary

These observations have been performed in C-19 mode by Felice Cusano, Ester Marini, Silvia Tosi and Andrea Rossi.

At sunset there are thin clouds passing by. SHARK-VIS and SHARK-NIR starts the night and gives back the telescope to us at 05:52 UT. We switch to LUCI at 8:00 UT.

Night duration (12 degree - twilight) 2:01 - 13:04 UT = * 11h* * 03m*

Observing time: 3h 50min (35%)*

Weather time loss: 1h 20min (12%)*

Technical time loss: 2h 0min (18%)*

Shark-VIS+NIR time loss: 3h 51min (35%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
Maiorano 23	GRB250129 A	LUCI2	Hima		FWHM~2" no use for this observation
Telluric	HIP 32549	LUCI2	200zJ+HKspec		FWHM~2"
Malizia 12	SWIFTJ1033	LUCI2	200zJspec	0.03h	FWHM~2" completed
Malizia 12	SWIFTJ1033	LUCI2	200HKspec	0.03h	FWHM~2" completed
Telluric	HIP 62745	LUCI2	210 K		FWHM~1.5-2"
La Barbera 10	NGC4365	LUCI2	210 K	0.3/4.3h	FWHM~1.5" stopped due to clouds
Maiorano 23	GRB250129 A	LUCI2	Hima	0.3h	FWHM~1.5
Telluric	HD 95605	LUCI2	200zJ+HKspec		FWHM~2"
Malizia 12	SWIFTJ1114	LUCI2	200zJspec	0.04h	FWHM 1.2" passing cirrus completed
Malizia 12	SWIFTJ1114	LUCI2	200HKspec	0.04h	FWHM 1.2" passing cirrus completed
Telluric	HD 95605	LUCI2	200zJ+HKspec		FWHM~1.5" use this one
calib	flat, arc	LUCI2	G200		

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1O0liXg4d6L-yHH1eCqRomlwCo2XUd59M/view?usp=sharing>
log from Justin Rupert:

<https://drive.google.com/file/d/1szYjrsDm3nP0Mi7PLUAS9NswMIICzoI2/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/17Wolgsw02lIG2OomvJAp1sw_dSUt6Ud9/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1aH7hlsysB5UvcSuvBQjhJTvWNW7wUeYC/view?usp=sharing>

INAF queue observing, 2025 February 18 - February 19

Observer: Felice Cusano, Ester Marini, Silvia Tosi, Andrea Rossi

Support: Justin Rupert

Telescope operator: Steve Allanson
Instrument: SHARK-VIS/NIR - LUCI2

Summary

These observations have been performed in C-19 mode by Felice Cusano, Ester Marini, Silvia Tosi and Andrea Rossi.

At sunset the sky is clear. SHARK-VIS and SHARK-NIR starts the night and gives back the telescope to us at 07:19UT and we reconfigure to LUCI.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 8h 41min (79%)*

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

Technical time loss: 1h 9min (10.4%)*

Shark-VIS+NIR time loss: 1h 10min (10.6%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Lazzoni 20	HD53532	Shark-NIR		1/1h	likely completed
Lazzoni 20	K2-275	Shark-NIR		1/1h	completed
Telluric	HIP64248	LUCI2	G200/HK/zj-spec		for Signorini
Signorini_45	SDSSJ123105	LUCI2	G200/HK/zj-spec	0.3/1hr	stopped at 5/8 of the first script due to bad seeing. Need to retake this since seeing out of spec
Telluric	HIP62745	LUCI2	G210/K		for La Barbera
La Barbera_10	NGC4365	LUCI2	G210/K	1/4.3hr	variable seeing, up to 2.5" during the first half of the 1st exp. During the second exp fwhm~1-1.5". Stopped at 12/29 of the second script
STD	STD 106038	LUCI2	G210/K		for La Barbera

Telluric	HIP64248	LUCI2	G200/HK/zj-spectec		for Signorini
Signorini_45	SDSSJ123105	LUCI2	G200/HK/zj-spectec	0.37/1hr	stopped 2exp before the end of the script but almost all the spectra are out of spec need to retake this
Telluric	HIP62745	LUCI2	G210/K		for La Barbera
La Barbera_10	NGC4365	LUCI2	G210/K	0.15/4.3hr	fwhm on average 1.3". Stopped the script at 6/29 since we were approaching sunrise. Tot time on this target tonight: 1.15/4.3hr
CALIB	flat slitless, arcs, flat 1.2"	MODS1-2	dual grating		

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1ffu5b6s_jaeS0DZuaoXDK5TXEb-MyIxF/view?usp=sharing

log from Justin Rupert:

<https://drive.google.com/file/d/19qsa5HTIQye5nMsRvIAFPWkmn6m1VnS8/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1svKw4k5Ud8D4TMfqmuPBUN14eT564f0h/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1UrTGB-JCahEQdt8a26TN_jpxpTapUbZ9/view?usp=sharing

Summary of MODS calibration files:

https://drive.google.com/file/d/1uv0e6rh_wUEdX4HHvhVV-PYNJ3Ci2KgL/view?usp=sharing

Summary of LBC calibration files:

<https://drive.google.com/file/d/1j4SGYNcARt64w0R5gswPP1hqmo7-0-F6/view?usp=sharing>

INAF queue observing, 2025 February 19 - February 20

Observer: Felice Cusano, Ester Marini, Silvia Tosi, Andrea Rossi

Support: Alex Becker

Telescope operator: Steve Allanson

Instrument: SHARK-VIS, LBC BINO

Summary

These observations have been performed in C-19 mode by Felice Cusano, Ester Marini, Silvia Tosi and Andrea Rossi.

At sunset the sky is cirrus. Humidity and wind well below the limit. SHARK-VIS starts the night and gives back the telescope to us at 2:30UT. A problem occurred with the HBS, we then reconfigure to LBC at 02:50UT.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 8h 55min (81%)*

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

Technical time loss: 1h 35min (14%)*

Shark-VIS+NIR time loss: 0h 30min (5%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
D'onofrio_6	NGC2903	LBC bino	U-Spec, z-SLOAN	0.5hr + 0.5hr	FWHM~1" on the blue, ~0.7" on the red. Done only script *_1
Giunta_25	2024YRA	LBC bino	g-, r-SLOAN	0.5hr + 0.5hr	FWHM<1"
Vito_2023b	J0535	LBC bino	r-, i-SLOAN	0.3+0.3hr	stopped script *_r_i_2 at 6/10 offsets (40/60 images) due to AM limit
Vito_2023b	J0836	LBC bino	r-, i-SLOAN	0.5+0.5hr	r_i_1 FWHM<1"
Vito_2023b	J0836	LBC bino	r-, i-SLOAN	0.5+0.5hr	r_i_2 FWHM<1"
Troja 44	Ep250207b	LBC bino	g-, i-SLOAN	0.5+0.5hr	FWHM<1"
Maiorano 23	GRB250129 A	LBC bino	r,i	0.7+0.7h	FWHM<1"
D'Onofrio 6	NGC 4321	LBC bino	SDT-U,z	1.2+1.2h	FWHM<1"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1SzlvluVA9RCBfuD917I-EnMFJPZKI6xZ/view?usp=sharing>

log from Alex Becker:

https://drive.google.com/file/d/1EKwzAdf8WEITK8thIN4Fe9_PIXTpi78L/view?usp=sharing

Summary of LBC science files:

https://drive.google.com/file/d/1Re5Nvp_DhNTfvsm1DRUJXz6lyNzR7JFq/view?usp=sharing

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1r6ZMNnrNuckFVvtw1E7rJiVF4tAl1wz/view?usp=sharing>

INAF queue observing, 2025 February 20 - February 21

Observer: Ester Marini, Silvia Tosi, Felice Cusano

Support: Alex Becker

Telescope operator: Steve Allanson

Instrument: SHARK-VIS - LUCI2

Summary

These observations have been performed in C-19 mode by Felice Cusano, Ester Marini, Silvia Tosi and Andrea Rossi.

At sunset the sky is a bit cirrus. Humidity and wind well below the limit. SHARK-VIS starts the night and gives back the telescope to us at 02:22UT and we reconfigure to LUCI2.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 9 h 50 min (89%)*

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

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

Shark-VIS+NIR time loss: 0 h 40 min (6 %)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Telluric	HD12381	LUCI2	G200/zj,HKspec		for Malizia
Malizia_12	LEDA97012	LUCI2	G200/zj,HKspec	0.65h	script x3 due to clouds and bad seeing (up to 3")
Telluric	BD45981	LUCI2	G200/zj,HKspec		for Malizia
Malizia_12	SWIFTJ0357	LUCI2	G200/zj,HKspec	0.34h	script x2
Telluric	BD45981	LUCI2	G200/zj,HKspec		for Malizia
Malizia_12	IGRJ04059	LUCI2	G200/zj,HKspec	0.62h	script x2
Telluric	HIP 62745	LUCI2	G210/K		for La Barbera
La Barbera	NGC4365	LUCI2	G210/K	0.45h	good seeing
Standard	HD106038	LUCI2	G210/K		for La Barbera
Telluric	HIP64248	LUCI2	G200/zjSpec, HKspec		for Signorini
Signorini	SDSSJ123105	LUCI2	G200/zjSpec, HKspec	0.5h, 0.5h	completed
Telluric	HIP56736	LUCI2	G200/zjSpec, HKspec		for Signorini

Signorini	SDSSJ123333	LUCI2	G200/zjSpec, HKspec	2h, 1h	zJspec completed, Hkspec to finish 1 hour
Calibration		LUCI2			
Calibration		MODS1-2			

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1C2QGjUDUBUdyZzNWurXB2Urw9Eu0bJnQ/view?usp=sharing>
log from Alex Becker:

<https://drive.google.com/file/d/151OijJOMMec6Ala-RD0alEdC8L-Y4mIC/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/10WopgTguLiMDVBZS6yDpUuXVrGTIMljk/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1OKfRNzQQAGI7vhhPEVMqg4OrTVXSLj55/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1Ly-rI9C9YfAEC5dyp5ZffiUT9e9HF1ly/view?usp=sharing>

INAF queue observing, 2025 February 21 - February 22

Observer: Andrea Rossi, Silvia Tosi, Felice Cusano

Support: Alex Becker

Telescope operator: Steve Allanson

Instrument: SHARK-NIR, LUCI2

Summary

These observations have been performed in C-19 mode by Andrea Rossi, Felice Cusano, and Silvia Tosi.

At sunset the sky is clear. SHARK-NIR starts the night and gives back the telescope to us at xxxxxx UT and we reconfigure to .

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 9 h 40 min (87.3%)*

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

Technical time loss: 0h 5min (0.7%)*

Shark-VIS+NIR time loss: 1 h 20min (12%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Lazzoni 20	TOI-1726	SHARK-NIR		1h	a few open loop, maybe a few images need to be taken again
Telluric	HIP56736	LUCI2	HK200slit1"		

Signorini	SDSSJ1233 3	LUCI2	HK200slit1"	1h	completed
Telluric	HIP61138	LUCI2	G200-zJspec, HKspec		
Signorini	SDSSJ1248	LUCI2	G200-zJspec, HKspec	0.5h, 0.25h	zJspec completed HKspec 0.25h missing
Telluric	HIP55681	LUCI2	G200-zJspec, HKspec		for Malizia program, clouds
Malizia	SWIFT J1148.7+294 1	LUCI2	G200-zJspec, HKspec	0.33h+0.33 h	2-3mag extinction by clouds
Telluric	HIP62745	LUCI2	G200-zJspec, HKspec		for Malizia program, clouds
Malizia	SWIFTJ1200	LUCI2	G200-zJspec, HKspec	0.21h + 0.21h	2-3mag extinction by clouds
Telluric	HIP65599	LUCI2	G200-zJspec, HKspec		for Malizia program, clouds
Malizia	NGC5252	LUCI2	G200-zJspec	0.11h	only zJspec
MODS calibration					

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1fG25J61q7oSf2JYtQHqDDQ8U4zD4-a1K/view?usp=sharing>
log from Alex Becker:

https://drive.google.com/file/d/1_1dxWQtM8VW2Lt0jJWwGWjLXgnwdnUtK/view?usp=sharing

Summary of LUCI science files:

https://drive.google.com/file/d/1Bz5QvclWeb94v_OouYcEPGcoW8_I_Ud7/view?usp=sharing

Summary of LUCI calibration files:

https://drive.google.com/file/d/1K4FPJialO4ylZStHu2zlfamOxSf0_iXh/view?usp=sharing

Summary of MODS calibration files:

<https://drive.google.com/file/d/1-aWlx5gJwNmceiedNe14ur7QvYry8Y0/view?usp=sharing>

INAF queue observing, 2025 February 22 - February 23

Observer: Ester Marini, Silvia Tosi, Felice Cusano

Support: Alex Becker

Telescope operator: Steve Allanson

Instrument: SHARK-VIS - LBC BINO

Summary

These observations have been performed in C-19 mode by Andrea Rossi, Felice Cusano, and Silvia Tosi.

At sunset the sky is clear. SHARK-VIS and NIR start the night and gives back the telescope to us at 03:29 UT and we reconfigure to LBC BINO.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 0 h 0 min (%)*

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

Technical time loss: 0 h 30 min (4.5%)*

Shark-VIS+NIR time loss: 1 h 30min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Vito carryover	J0535	LBC bino	r,i	0.16+0.16hr	stopped at 20 images of r_i_2 since we took the other 40 on Feb 20
Vito carryover	J0535	LBC bino	r,i	0.5+0.5hr	r_i_3 done, mirror movement/image jump in the images lbc.044733, lbc.050608
Vito carryover	J0535	LBC bino	r,Y	0.5+0.5hr	stop the script r_Y_1 at 24/60 images (4/10 offsets) since we hit AM
Vito carryover	J0836	LBC bino	r,i		r_i_3, some thin clouds during the exposure, stop at 38/60 for cirrus
Palazzi	SN2020abj c	LBC bino	gi-rz	0.67h+0.67h	some thin cirrus, completed
Vito carryover	J142738	LBC bino	r,i	1h+1h	ri_1 done, ri_2 done but some images out of spec
Izzo	SNFeb25	MODS1,2	dual grating	1.3h+1.3h	seeing variable between 1.2 and 2", done one exp more

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1Aa6fxhGJQx-7YaY2cEkQhu1Uy2N9OjDk/view?usp=sharing>
log from Alex Becker:

<https://drive.google.com/file/d/1VQ34vjj9szHiPCo81s0eXPQ0Zw0SXvL6/view?usp=sharing>
Summary of LBC science files:

<https://drive.google.com/file/d/1SynJmdnu4Z4lf0tnxxCiKYfQ5CU6vXQy/view?usp=sharing>
Summary of MODS science files:

<https://drive.google.com/file/d/1ZTV7RUIxqsE68sbWCvZlwf0JxeWAwyIb/view?usp=sharing>
Summary of LUCI calibration files:

<https://drive.google.com/file/d/1hgxCQrbj6MOJekZCjOdyYhQyiPunVxSy/view?usp=sharing>
Summary of MODS calibration files:

https://drive.google.com/file/d/1aW0hIBspZXXNmG0W4Z4VG_nzisSy7CD0/view?usp=sharing

INAF queue observing, 2025 March 05 - March 06

Observer: Felice Cusano, Ester Marini

Support: Jennifer Power

Telescope operator: Josh Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano, and Ester Marini. At sunset the sky is cloudy, but still good to opens. SHARK-VIS and NIR start will not observe tonight. We start with MODS. Closing the dome for heavy clouds at 02:25, taking cals with MODS1-2. Situation did not improve and Josh calls the night at 11:15UT.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 0h 25min (3.8%)*

Weather time loss: 10h 35min (96.2%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
STD	GD191	MODS1-2	dual, red grating		dual is ok, clouds during red grating
Calibration		LUCI-2			
Calibration		MODS1-2			all MODS calibs are done

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1V_mtLAHpMf_I9WpMyzQjzY7vbg7xCJcY/view?usp=sharing
log from Jennifer Power:

<https://drive.google.com/file/d/1YXlcWMUnvab5xcxAQtgUTk3F4BAi8Kj4/view?usp=sharing>
Summary of MODS science files:

<https://drive.google.com/file/d/1WVNPCywJf8SfqUnwFABvzpn5RUcxOoAr/view?usp=sharing>
Summary of MODS calibration files:

<https://drive.google.com/file/d/13CT6VG0XS1ORmrNckLRbcpcctXIZIKxi3/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/11h5P6yRUPvQhI_5eaDDxIIBC_bIWJ1J7/view?usp=sharing

INAF queue observing, 2025 March 06 - March 07

Observer: Ester Marini, Andrea Rossi

Support: Jennifer Power

Telescope operator: Josh Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and Andrea Rossi
At sunset the sky is covered by thick clouds, humidity ~92.5% and wind speed ~22m/s. We stay closed. SHARK-VIS and NIR will not observe tonight. Josh calls the night at 03:53 due to snow.
Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

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

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/167-dq7sHL9EJngCeQsVbnO8-_WRrgyil/view?usp=sharing

log from Jennifer Power:

INAF queue observing, 2025 March 07 - March 08

Observer: Andrea Rossi, Felice Cusano

Support: Jennifer Power

Telescope operator: Josh Williams

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano
Night has been called in the afternoon because the building is covered in snow and ice.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: h min (%)*

Weather time loss: 11h 00min (100%)*

Technical time loss: h min (%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1vwENaTD1Jqkk9J_e2mBsDF8S1DjJZhl/view?usp=sharing

INAF queue observing, 2025 March 08 - March 09

Observer: Ester Marini
Support: Alex Becker
Telescope operator: Josh Williams
Instrument:

Summary

These observations have been performed in C-19 mode by Ester Marini.

ECD had the first half of the night, until 7:30UT.

Night has been called in the afternoon because the building is covered in snow and ice.

Night duration (12 degree - twilight) 7:30 - 13:00 UT = * 5h* * 30m*

Observing time: 0h 0min (%)*

Weather time loss: 5h 30min (100%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1SaVlwoUAXPr4i1gj6GSX2Ne3K4m9GY7u/view?usp=sharing>

INAF queue observing, 2025 March 09 - March 10

Observer: Felice Cusano, Andrea Rossi
Support: Alexander Becker
Telescope operator: Josh Williams
Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano

At the sunset the sky is clear, we open and SHARK begin the night. After SHARK we start with MODS, but athen after two hours we switch to PEPSI for bad seeing and high wind.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 6h 55min (63%)*

Weather time loss: 0h 22min (3%)*

Technical time loss: 1h 05min (10%)*

Shark-VIS+NIR time loss: 2h 45min (24%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to t	Notes
STD	Feige 34	MODS1-2	red and blue grating		
Grazian	Q107171336416955636	MODS1-2		0.3h	more for FWHM>1.5"
Malizia	SWIFTJ0835	MODS1-2		0.14h	more for FWHM>1.5"
Malizia	NGC 2617	MODS1-2		0.06h	FWHM>1.5"
Ceccarelli 7	3915925991063287808	PEPSI1-2	PFU D300 CD1-4	0.66h	SNR ~60-140 on CD1-4
Ceccarelli 7	3963873700285600128	PEPSI1-2	PFU D300 CD1-4	0.5h	SNR 45-95 on CD1-4
Ceccarelli 7	4008274384997266560	PEPSI1-2	PFU D300 CD1-4	0.5h	SNR 50-100 on CD1-4
Ceccarelli 7	3735399547720979456	PEPSI1-2	PFU D300 CD3-6	0.03h	SNR 35-80 on CD3-6
Ceccarelli 7	1358501252397934976	PEPSI1-2	PFU D300 CD3-6	0.11h	SNR 55-76 on CD3-6
Ceccarelli 7	1353777750444932736	PEPSI1-2	PFU D300 CD3-6	0.06h	SNR 55-80 on CD3-6
Ceccarelli 7	1344746087056976256	PEPSI1-2	PFU D300 CD3-6	0.02h	SNR 40-60 on CD3-6
Ceccarelli 7	1352339279998412288	PEPSI1-2	PFU D300 CD3-6	0.07h	SNR 57-75 on CD3-6
Ceccarelli 7	1314767455848911488	PEPSI1-2	PFU D300 CD3-6	0.45h	SNR 60-80 on CD3-6
Ceccarelli 7	1649498893157940480	PEPSI1-2	PFU D300 CD3-6	0.28h	SNR 50-70 on CD3-6

Ceccarelli 7	459336303940752627 2	PEPSI1-2	PFU D300 CD3-6	0.07h	SNR 60-80 on CD3-6
Ceccarelli 7	210884677933879795 2	PEPSI1-2	PFU D300 CD3-6	0.11h	SNR 58-84 on CD3-6
Ceccarelli 7	211937078924284595 2	PEPSI1-2	PFU D300 CD3-6	0.07h	SNR 73-116 on CD3-6
Ceccarelli 7	204874194186193971 2	PEPSI1-2	PFU D300 CD3-6	0.07h	SNR on CD3-6

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1Mhv6TPoGeWMeoHo6KWw3bQnIZKX_OMjG/view?usp=sharing

Log by Alexander Becker at this link:

https://drive.google.com/file/d/1vIGOr3jbieYRGugKR5jctuCb_3iFhN5m/view?usp=sharing

Summary of MODS science files:

https://drive.google.com/file/d/1r3o_gg54IZ4-vsa_4vPxIKh8zkThX1SK/view?usp=sharing

INAF queue observing, 2025 March 10 - March 11

Observer: Andrea Rossi, Ester Marini, Silvia Tosi

Support: Alexander Becker

Telescope operator: Josh Williams

Instrument: SHARKs,MODS, LUCI

Summary

These observations have been performed in C-19 mode by Andrea Rossi, Ester Marini and Silvia Tosi

At the sunset the sky is clear, we open and SHARKs begin the night with INAF open program.

We switch to MODS at 5 UT. Then we switch to LUCI at 9:31UT.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 9h 40min (87.9%)*

Weather time loss: 0h 30min (4.5%)*

Technical time loss: 0h 50min (7.6%)*

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

Data Summary

Project_RU N	Objects	Instrume nt	Configurati on	ExpTime /Time_tot	Notes
Lazzoni 20	TIC 150070085	SHARKs		1/1 hour	completed
STD	G191	MODS1-2	dual		
Balmaverde _1	NVSSJ110630+012 120	MODS1-2	dual	1.33hr	fwhm ~ 1" completed

Bevacqua_4 2	1237665429169242 591	MODS1-2	blue+red	0.39+0.39 hr	completed fwhm ~ 1", (we did only last 2exp since we already get the 1st during run #109)
Bevacqua_4 2	1237667917032980 629	MODS1-2	blue+red	1.2+1.2hr	completed fwhm ~ 0.8"
Telluric	HIP61138	LUCI1-2	G200/HKspec		for Signorini
Signorini_45	SDSSJ124858	LUCI1-2	G200/HKspec	0.25hr/0.5 hr	completed fwhm 0.8", zJspec and 0.25hr of HKspec already done during run #110
Telluric	HIP68713	LUCI1-2	G200/zJ-HK spec		for Signorini
Signorini_45	SDSS141250	LUCI1-2	G200/zJ	0.38hr/1hr	fwhm 1", we did only 3/4 of zJ due to wind. 1/4 of zJ and all HK TBD
Telluric	HIP71172	LUCI1-2	G200/zJ-HK spec		for Signorini
Signorini_45	SDSS165043	LUCI1-2	G200/zJ-HK		stopped after 3 zJ exp due to bad seeing, up to 2". TBD again

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1-0vZmZ4AL0ZhBnjKTz7-5Q_cjZB7B0Bb/view?usp=sharing

Log by Alexander Becker at this link:

<https://drive.google.com/file/d/1LpS78ux-0nsSuOxnNez8NDmbEquM8xRJ/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/12GEu7FlzztYZMVmluO37WZ4aPvHdMt53/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1VlwZbEN3tzf-xgpo1ypuJLlvIwHV1I_M/view?usp=sharing

INAF queue observing, 2025 March 11 - March 12

Observer: Ester Marini, Silvia Tosi, Felice Cusano
 Support: Alexander Becker
 Telescope operator: Riccardo Ansaldi, Steve Allanson
 Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini, Silvia Tosi and Felice Cusano

At the sunset the sky is clear, we open and start with MODS bino. Closing at 8:20UT for clouds and then snow.

Night duration (12 degree - twilight) 2:00 - 13:00 UT = * 11h* * 00m*

Observing time: 6h 10min (%)*

Weather time loss: 5h 40min (%)*

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

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

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Farina DDT	Dydimos	MODS1-2			fwhm ~ 1", for the details of the exposures before the event see the log
Farina DDT	Dydimos	MODS1-2	dual	1hr	fwhm ~ 1", took 1exp with both MODS during the event
Farina DDT	solar analog SA102	MODS1-2	dual		
Piconcelli_27	J1245	MODS1-2	dual	0.75hr	fwhm 1.1" completed
Bevacqua_42	1237662224614490342	MODS1-2	dual		completed
Bevacqua_42	1237665549429899544	MODS1-2	red and blue grating	0.19h+0.19h	

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1I5Zbf0YIO3pe60QXGJ84rlhmRQddjore/view?usp=sharing>

Log by Alexander Becker at this link:

https://drive.google.com/file/d/1PjHnqbeNSNF5uZfTHafn14dbJ9Q_LpV/view?usp=sharing

Summary of MODS science files:

<https://drive.google.com/file/d/15bmS18D-mngTI1dBEQJRM28BqJFdSxAf/view?usp=sharing>

INAF queue observing, 2025 March 12 - March 13

Observer: Felice Cusano
Support: Alexander Becker
Telescope operator: Riccardo Ansaldi, Steve Allanson
Instrument: MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano
We have half night shared with LBTO. We stay closed all the night for ice and high humidity.
Night duration (12 degree - twilight) 2:00 - 7:30 UT = * 5h* * 30m*
Observing time: 0h 0min (%)*
Weather time loss: 5h 30min (100%)*
Technical time loss: 0h 0min (%)*
Shark-VIS+NIR time loss: 0h 0min (0%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

Log by Alexander Becker at this link:

Summary of MODS calibration files for 2x2 binned data:

https://drive.google.com/file/d/1J_OqCc3UJlbfjw3meiZQ21v-F7GdTI/view?usp=sharing

INAF queue observing, 2025 April 25 - April 26

Observer: Ester Marini, Andrea Rossi, Silvia Tosi
Support: Justin Rupert
Telescope operator: Steve Allanson
Instrument: MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and remotely from the control room in Bologna by Andrea Rossi and Silvia Tosi .

At sunset the sky is clear and we open. SHARK takes the first part of the night. We take over at 05:49 UT with MODS

Night duration (12 degree - twilight) 2:50 - 11:41 UT = * 8h* * 51m*

Observing time: 5h 21min (60%)*

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

Technical time loss: 0h 15min (3%)*

Shark-VIS+NIR time loss: 2h 55min (33%)*

Data Summary

Project_R UN	Objects	Instrument	Configurati on	ExpTim e /Time_t ot	Notes
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Vietri	J1305	MODS1+2	MODS1 red grating, MODS2 blue grating	1h + 1h	FWHM ~ 0.9", sky clear
STD	BD33	MODS1+2	MODS1 red grating, MODS2 blue grating		
Vietri	J1421+4633	MODS1+MOD S2	MODS1 red grating, MODS2 blue grating	0.5h + 0.5h	FWHM ~ 0.8", sky clear
Bevacqua	1237667734526492801	MODS1+2	MODS1 blue grating, MODS2 red grating	1.25h + 1.25h	FWHM ~ 0.9". Completed
STD	BD33	MODS1+2	MODS1 blue grating, MODS2 red grating		
STD	BD33	MODS1+2	dual grating		

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1gJAyOnIQMzar4vn0YzUbaEV5FwTVpuio/view?usp=sharing>
log from Justin Rupert:

<https://drive.google.com/file/d/1XeLAnJfgegJfsRE0q3Pbu-IGLGs388Fg/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1XhY3mftkjo9O4vSi8KB-83kpGjUm6r4/view?usp=sharing>

Summary of MODS calibration files:

https://drive.google.com/file/d/1Mx_ecmaSFRkKTW4amZx4gR1MGU28qos/view?usp=sharing

INAF queue observing, 2025 April 26 - April 27

Observer: Andrea Rossi, Felice Cusano and Silvia Tosi

Support: Justin Rupert

Telescope operator: Steve Allanson

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and remotely from the control room in Bologna by Felice Cusano and Silvia Tosi .

At sunset the sky is clear but with gusts above 22 m/s from SW. We stay closed until 03:12 and then we start with MODS.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h* * 50m*

Observing time: 2 h 40 min (0%)*

Weather time loss: 6 h 10 min (0%)*

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

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

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
STD	Feige34	MODS1-2	dualgrating		
Savaglio	FRB20250316A	MODS1-2	dualgrating 1.2slit	0.67h+0.67h	FWHM~0.9" completed
Vietri	J1421	MODS1-2	mods1red, mods2blue 0.6slit	0.5+0.5h	FWHM~1.1" completed
Bevacqua	123766554942989 9544	MODS1-2	mods1blue, mods2red 1.2slit	0.19h+0.19h	FWHM~ 1" completed
Calibration	Flat + Arcs	MODS1-2			Red, blue, dual, grating

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1XfmxoALCaqH6Yz-bM5N2EyaeOpvl623g/view?usp=sharing>
log from Justin Rupert:

<https://drive.google.com/file/d/1EGupzZU72vpylppgRq4FRtkviNTA0jK1/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1AJxDq2YFI8yMPLCqpp6WfV1SUbEr1-IE/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1XdGb7F8UHhwCis4DtdtA1BtFeMmgHObl/view?usp=sharing>

INAF queue observing, 2025 April 27 - April 28

Observer: Ester Marini, Felice Cusano and Silvia Tosi

Support: Justin Rupert

Telescope operator: Steve Allanson

Instrument: MODS, PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and remotely from the control room in Bologna by Felice Cusano and Silvia Tosi .

At sunset the sky is clear, but we wait a few minutes more before opening due to wind. We open at 02:04UT and we start with MODS. For bad seeing we switch to PEPSI at 7:00.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h* * 50m*

Observing time: 8 h 50 min (0%)*

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
La Barbera	NGC4515	MODS bino	dual grating	0.25hr	variable seeing, ~1.5" on average, completed
STD	Feige 67	MODS bino	dual grating		standard for la Barbera (script with the y-22 offset, as indicated by the PI)
Vietri_carriover	J0747	MODS bino	red+blue grating	1.25hr+1.25hr	fwhm ~1.5" during 3/4 of the total exposure. We take an additional exp to compensate the poor seeing during the last one
La Barbera	NGC4550	MODS bino	dual grating	0.25hr	variable seeing, ~1-1.5", completed
Bevacqua	1237668333640810655	MODS bino	red+blue grating	0.67h+0.67h	variable seeing ~1-1.9", 1 exp more completed
Bragaglia	RC-GDR3 2051293977058270592	PEPSI bino	CD1-3	0.5h +0.5h	completed
Bragaglia	RC-GDR3 2051293977058270592	PEPSI bino	CD1-4	0.5h +0.5h	completed
Bragaglia	RGB-GDR3 2051293289863225728	PEPSI bino	CD1-4	1.13h + 1.13h	completed
Bragaglia	RGB-GDR3 2051293427302192640	PEPSI bino	CD3-5	1.7h + 1.7h	completed

Bragaglia	RGB-GDR3 205129342730219 2640	PEPSI bino	CD1-4	1.8h + 1.8h	completed
Rainer	TOI-2109	PEPSI bino	CD 1-4	0.05h+0.05 h	completed
Rainer	TOI-2109	PEPSI bino	CD 2-5	0.05h+0.05 h	completed
Rainer	TOI-2109	PEPSI bino	CD 3-6	0.1h+0.1h	completed

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1wlczQXikbHCpNIY-UzGHvHZfSjbgE9KL/view?usp=sharing>

log from Justin Rupert:

<https://drive.google.com/file/d/1Z8R17epP1eKHERrdfObHbgz5q6kmG8uN/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1eA6xr4Ts_YHhGoqVWkoo5XI_M2ZILkfl/view?usp=sharing

Summary of MODS calibration files:

<https://drive.google.com/file/d/1lhITVlnpUTKT5Mwink0bu3W0jHNvoaRf/view?usp=sharing>

INAF queue observing, 2025 April 28 - April 29

Observer: Andrea Rossi, Felice Cusano and Silvia Tosi

Support: Justin Rupert

Telescope operator: Steve Allanson

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and remotely from the control room in Bologna by Felice Cusano and Silvia Tosi .

At sunset the sky is clear, wind gusts below 12 m/s, we open and start with MODS. At 04:35

Sharks take the telescope.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h* * 50m*

Observing time: 5 h 40 min (0%)*

Weather time loss: h min (0%)*

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

Shark-VIS+NIR time loss: 2 h 40 min (0%)*

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTime /Time_tot	Notes
Mazzolari_ 36	Mask_16	MODS1+ 2	dualgrating ID 555234	1.33+1.33	completed Stripes in MODS1B Q2

Vietri	J1305	MODS1+ 2	red and blue grating	1.25h+1.2 5h	completed seeing 1-1.5", one exp more for bad seeing, see log
Izzo	SNApril25	MODS1+ 2	imaging	3min+3mi n	completed , seeing < 1"
Izzo	SNApril25	MODS1+ 2	dual grating	2h+2h	completed , seeing < 1"
Bevacqua	1237665569297203 655	MODS1+ 2	dual grating	0.66h+0.6 6h	completed , seeing < 1"

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1rOk5IQsl0s3_c6zCRGNdsFv1uh_mqpU7/view?usp=sharing

log from Justin Rupert:

<https://drive.google.com/file/d/1uADBcZDCcR8qSaEg0NK9wzkaOYOqjRoe/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1uhOAcf9-LbOgH7wbdrimvBrWCCPUkcVI/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1Nhr6IEPYp8ssBEiZPZJH7SiRXJZPXC7o/view?usp=sharing>

INAF queue observing, 2025 April 29 - April 30

Observer: Felice Cusano

Support: Justin Rupert

Telescope operator: David Gonzalez-Huerta

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano.

At sunset the sky is clear, wind is low, we open and start with MODS.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h * * 50m*

Observing time: h min (0%)*

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

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

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

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTime /Time_tot	Notes
Mazzolari_ 36	Mask_17	MODS1+ 2	dualgrating ID560129		completed last exposure with seeing 1.3"

Bevacqua	1237651735773708 418	MODS1+ 2	red and blue grating	1.4h+1.4h	completed seeing 1.2-1.7" at the beginning, then good conditions, check log
Ceccarelli_ 9	Munoz_1	MODS1+ 2	dual grating	0.67h+0.6 7h	completed
Bevacqua	1237665532252520 624	MODS1+ 2	dual grating	0.51h+0.5 1h	2 exp done on 3 seeing 1", we had to stop for high wind
Mura	C/2024 E1	MODS1+ 2	dual grating	0.75h+0.7 5h	seeing 1"
Ceccarelli_ 9	RLGC2	MODS1+ 2	dual grating	0.33h+0.3 3h	1 exp done on 2
STD	HIP94335	MODS1+ 2	dual grating		solar analog for Mura program
Calibration	flat&arc	MODS1+ 2	dual grating		Mask RLGC2

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1KOSdDbVsfajiWWeDn_sxAZQJTvm6N0d0/view?usp=sharing

log from Justin Rupert:

<https://drive.google.com/file/d/1Wu5WFIDoJNtmel5wU9eH9Z1iRs4fhUFn/view?usp=sharing>

Summary of science files:

<https://drive.google.com/file/d/1SIO8g2WkFPwc5WAG3InysOpopbs-iu70/view?usp=sharing>

Summary of calibration files:

https://drive.google.com/file/d/1_rj0L8WZWeF0adtfcsAySQJD_vmqDDfX/view?usp=sharing

INAF queue observing, 2025 April 30 - May 01

Observer: Ester Marini, Silvia Tosi

Support: Justin Rupert

Telescope operator: David Gonzalez-Huerta

Instrument: MODS/PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and Silvia Tosi.

At sunset there are thin clouds passing through, we open at 2:13UT and we start with MODS.

Then we switch to PEPSI at 05:41UT.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h * 50m*

Observing time: 8h 37min (97.55%)*

Weather time loss: h 5 min (0.94%)*
 Technical time loss: h 8 min (1.51%)*
 Shark-VIS+NIR time loss: h min (0%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Grazian	Q42583836	MODS bino	dual grating	0.28hr	fwhm 1", we took an additional exposure due to clouds
La Barbera	VCC1627	MODS bino	dual grating		we stop the script after one exp due to bad seeing (1.4" on average during the integration). To be redone
La Barbera	NGC4623	MODS bino	dual grating	0.53hr	took an additional exposure at the 00 position to compensate for the clouds (1.5mag of flux loss during the first exp), fwhm 1" on average for most of the integration
STD	Feige67	MODS bino	dual grating		For La Barbera. Used the script with the y-22 offset
La Barbera	NGC4551	MODS bino	dual grating	0.5hr	repeated the script due to clouds, fwhm 0.8", but 1mag of extinction
Rainer	WASP16	PEPSI bino	CD3-6	0.67h + 0.67h	exp time enhanced due to clouds, SNR 114 in blue and 142 in red in the first exposure, SNR 68 in blue and 62

					in red on the second exposure. completed
Rainer	WASP153	PEPSI bino	CD1-4	1h + 1h	exp time enhanced due to clouds, SNR 43 in blue and 147 in red. completed
Rainer	WASP153	PEPSI bino	CD2-5	1.1h + 1.1h	exp time enhanced due to clouds, SNR 59 in blue and 79 in red in the first exposure, 85 in blue and 128 in red in the second exposure. completed
Rainer	WASP153	PEPSI bino	CD3-6	1h+1h	exp time enhanced due to clouds, SNR 161 in blue and 163 in red. completed
Ceccarelli	GDR3 456780334543065 7536	PEPSI bino	CD3-6	0.375h+0.375h	exp time enhanced due to clouds, SNR in blue is 62 and 71 in red , completed
Ceccarelli	GDR3 131828475918601 6384	PEPSI bino	CD3-6	3min+3min	exp time enhanced due to clouds, SNR 73 in blue and 73 in red, completed
Ceccarelli	GDR3 444703893247431 3728	PEPSI bino	CD3-6	3min+3min	exp time enhanced due to clouds, SNR 79 in blue and 91 in red. completed
Ceccarelli	GDR3 455856720723978 9696	PEPSI bino	CD3-6	2min+2min	SNR 91 in blue and 110, completed

Ceccarelli	GDR3 446101004877132 9280	PEPSI bino	CD3-6	2min+2min	SNR is 208 in blue and 269 in red, completed
Ceccarelli	GDR3 454310449604119 8464	PEPSI bino	CD3-6	2min+ 2min	SNR is 58 in blue and 70 in red, completed
Ceccarelli	GDR3 456948109709582 0032	PEPSI bino	CD3-6	2min+2min	SNR is 179 in blue and 206, completed
Ceccarelli	GDR3 454028102319870 7968	PEPSI bino	CD3-6	40sec+40sec	SNR is 96 in blue and 154 in red. completed

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1DqsGLr1JCqD0nxg1vCOGCH9R5adSExXK/view?usp=sharing>
log from Justin Rupert:

<https://drive.google.com/file/d/1ycuvcfWsPTAmw7LtfUvhBli7o1rkaV3F/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1SjIAz-nuLgo1p8hYtBAZX1sSMdB0lymV/view?usp=sharing>

Summary of MODS calibrations files:

<https://drive.google.com/file/d/1TG1SaD1D0aWQWCPENieKEmEiTg7Ht9lh/view?usp=sharing>

INAF queue observing, 2025 May 01 - May 02

Observer: Silvia Tosi, Ester Marini,

Support: Jennifer Power

Telescope operator: David Gonzalez-Huerta

Instrument: MODS/LBC

Summary

These observations have been performed in C-19 mode by Ester Marini and Silvia Tosi.

At sunset there are a few clouds passing through, but then the sky becomes clear. We open at 2:40UT due to an issue with DXm1 and we start with MODS. Then we switch to LBC at 6:03UT.

An issue with the data transfer related to the repository (the cpu load average was very high) occurred twice tonight. See Jenny's log for more details.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h * 50m*

Observing time: 7h 7min (80.6%)*

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

Technical time loss: 1h 43 min (19.4%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Mazzolari	Mask 18	MODS1-2	dual grating	4hr	fwhm <1"

Bellazzini DDT	KK153	LBC bino	g-,r-sloan	0.5hr	fwhm ~1.1"
Maiorano	GRB250129 A	LBC bino	r-,r-sloan	0.4hr	fwhm ~1.2", we quit at 1/2 of the first script since the fwhm has been off constraints
Vito 2023	J1427	LBC bino	r-,i-sloan	1hr	fwhm <1", r_i completed
Vito 2023	J1427	LBC bino	r-,z-sloan	1hr	rz_1 done, fwhm ~ 0.7"
Vito 2023	J1427	LBC bino	r-,z-sloan	0.5hr	we stop at 1/2 of the script (we took 30/60 images), but we had fwhm >1.2" during the last offset
CALIB	Skyflats	LBC bino	r r, UY	PA0, PA180	

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1YGHJD2IG00jZu8rg4e0kalb-i_W_ynwS/view?usp=sharing

log from Jenny Power:

https://drive.google.com/file/d/1ODM4__trB0KijRFXGVkFWLhYv373ljEM/view?usp=sharing

Summary of MODS science files:

https://drive.google.com/file/d/1XobmPgw5aZ12YkjXrw0ZYvhGBeHsb-P_/view?usp=sharing

INAF queue observing, 2025 May 02 - May 03

Observer: Andrea Rossi, Ester Marini,

Support: Jennifer Power

Telescope operator: David Gonzalez-Huerta

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Ester Marini.

At sunset the sky is cloudy but it cleared up after 40 min and we could open at 2:40 UT. We close due to high particles count at 6:48UT and re-open at 7:26UT.

We switch to SHARK-NIR at 09:02UT for the GTO target until the end of the night.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h * 50m*

Observing time: 5h 22min (60.7%)*

Weather time loss: 0h 38min (7.2%)*

Technical time loss: 0h 20min (3.8%)*

Shark-VIS+NIR time loss: 2h 30min (28.3%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
Grazian	Q42583546	MODS1+2	dual grating	0.13hr	fwhm 1.3"
STD	Feige 34	MODS1+2	dual grating		
Ceccarelli_9	Koposov_1	MODS1+2	dual grating ID533851	1.33h	fwhm 0.9-1.5" TBD again if possible
Grazian	Q42583826	MODS1+2	dual grating	0.54hr	we took an additional exposure due to clouds, fwhm ~1.5-2"
Bevacqua	12376655322525206 24	MODS1+2	dual grating	0.51hr	fwhm ~0.9", we needed only 1exp of this completed
Bevacqua	12376683100214400 87	MODS1+2	dual grating	0.84/1hr	fwhm ~0.8", we had to stop the script due to SHARK-NIR GTO

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1h3IKVuQ4r5Yler09UCj71Gjr1NvwYVlz/view?usp=sharing>

log from Jenny Power:

<https://drive.google.com/file/d/15P3vE3pYVZurAkQD4aQh9eKCwhdYK7UM/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1-A3L0jPdOb5jMJgLDWkH4IIYhKD2bYDy/view?usp=sharing>

INAF queue observing, 2025 May 03 - May 04

Observer: Ester Marini, Silvia Tosi and Felice Cusano

Support: Jennifer Power

Telescope operator: David Gonzalez-Huerta

Instrument: MODS/PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini, Silvia Tosi and Felice Cusano.

At sunset the sky presents a few clouds but from the satellite it seems that there are more to come. We open at 2:33 and we start with MODS. We lost the connection with the mountain at 03:17UT and then again at 03:45UT. See Jenny's log for the details. We close at 4:05UT to solve the issue and re-open at 4:42UT. We finished the night with PEPSI due to poor seeing and cirrus.

Night duration (12 degree - twilight) 2:50 - 11:40 UT = * 8h * 50m*

Observing time: 7h 50min (%)*

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to	Notes
STD	Feige 34	MODS1+2	red, blue, dual grating		clouds during integration but counts are ok
Bevacqua	1237662236410577091	MODS1+2	dual grating	2.4h	completed
Bevacqua	1237662267540570526	MODS1+2	dual grating	0.8h	stop for bad seeing
Bragaglia	RC-GDR3 2051287311268703232	PEPSI	CD3-5	0.67h	exp time enhanced due to clouds. SNR 147 in red and 81 in blue completed
Bragaglia	RC-GDR3 2051287311268703232	PEPSI	CD1-4		exp time enhanced due to clouds. SNR 61 in blue and 117 in red completed
Bragaglia	RC-GDR3 2051288067183227008	PEPSI	CD3-5	0.5h	SNR 81 in blue and 36 in red. completed

Bragaglia	RC-GDR3 20512880671832270 08	PEPSI	CD1-4	0.75h	exp time enhanced due to clouds
Bragaglia	HD 192281	PEPSI	CD3-5		SNR 173 in blue and 216 in red completed
Bragaglia	HD 192281	PEPSI	CD1-4		SNR 92 in blue and 205 in red completed

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1B2T-zjgiHlrFsa5BeFPrAcmpMaDpMLjm/view?usp=sharing>

log from Jenny Power:

<https://drive.google.com/file/d/13YnFO-hRSvTb55uRgTn-iq0bmZDDbNYf/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1qCiXQJgL2VOgG_QHLQBU8bB32xVX55oi/view?usp=sharing

INAF queue observing, 2025 May 18 - May 19

Observer: Felice Cusano and Andrea Rossi

Support: Alexander Becker

Telescope operator: Steve Allanson

Instrument: LUCI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Andrea Rossi. At sunset the sky is clear, the wind is below the limit, but pretty high. We open at 2:14, but we can not point south. We start with LUCI bino. The support astronomer has to manually move the filters in LUCI1. This night is shared with LBTO. We give the telescope at 7:16 UT.

Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h * 03m* , but only 4 h tonight

Observing time: 3h 30min (87%)*

Weather time loss: 0h 25min (10%)*

Technical time loss: 0h 5min (3%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Telluric	HIP68713	LUCI1+2	zJspec, HKspec, G200		
Signorini	J141250	LUCI1+2	zJspec, HKspec, G200	0.5h+0.5	completed seeing 1"

Telluric	HIP71172	LUCI1+2	HKspec G200		
Telluric	HIP62745	LUCI1+2	K, G210		
La Barbera 10	NGC4365	LUCI1+2	K, G210	0.67+0.67 hours	AVG FWHM 1.5-2", still 1 h to go
STD	HD 106038	LUCI1+2	K, G210		specphot STD for LaBarbera

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1O6kDzEfXe6K1pKSEwIAs-sU0zhAovvIM/view?usp=sharing>

log from Alexander Becker:

https://drive.google.com/file/d/1BJ_FI6OcW0IP0rcjsEbHPy9x2w551Mlv/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1cHZBPg0cmD9snWGjOe5DA0TJylsknOrD/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1g0UwWm2-uM_kAU54Xa-WKTNx2NxZ4ufF/view?usp=sharing

INAF queue observing, 2025 May 19 - May 20

Observer: Ester Marini and Silvia Tosi

Support: Alexander Becker

Telescope operator: Steve Allanson

Instrument: LUCI, MODS

Summary

These observations have been performed in C-19 mode by Ester Marini and Silvia Tosi.

At sunset the sky is clear, the wind is below the limit. We open at 2:20UT and start with LUCI

bino. Also tonight the support astronomer has to move the filter manually on LUCI1. Before

opening, a planned outage occurred on campus for ~10minutes.

Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h * 03m*

Observing time: 0h 0min (%)*

Weather time loss: 7h 53min (%)*

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

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

Data Summary

Project_R UN	Objects	Instrum ent	Configurat ion	ExpTime /Time_tot	Notes
Telluric	HIP62745	LUCI1+2	G210, K		for La Barbera
La Barbera	NGC4365	LUCI1+2	G210, K	0.725+0.72 5hr	average fwhm 1.2" during the first half, then 0.9" completed
STD	HD106038	LUCI1+2	G210, K		specphot STD for la Barbera

Telluric	HIP71172	LUCI1+2	G200, HK		for La Barbera
Signorini	J1650	LUCI1+2	G200, HK	0.83+0.83h r	fwhm ~0.8", we needed only 9/12 offsets of HK to complete the target, but we took 10 to complete the ABBA sequence completed
Bevacqua	123766831002144 0087	MODS1+ 2	dual	0.4h+0.4h	last 2 exposures completed , FWHM ~ 0.8"
Bevacqua	123766226754057 0526	MODS1+ 2	blue and red	1.2h+1.2h	completed. FWHM ~ 0.7" for the first 4 exposures, then it worsened up to 1.8" for the last 2
STD	BD33	MODS1+ 2	dual		
STD	BD33	MODS1+ 2	red grating		
STD	BD33	MODS1+ 2	blue grating		
Palazzi	ZTF25aambyih	MODS1+ 2	imaging	0.1h	
Palazzi	ZTF25aambyih	MODS1+ 2	dual	1h	avg FWHM ~ 1.6"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1zoU7x7nu3HCmrSDYp2CbHKZ66oF2hH6U/view?usp=sharing>

log from Alexander Becker:

<https://drive.google.com/file/d/1-fccVtCKCd90SrmW28cJX6UpJQjfal4U/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1QB27JTzNleytAV_FcSQxb7yZ5rQXbAQw/view?usp=sharing

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1TSFXjunCatd0tHdSX9sw8wwofCIHHq6Q/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1ZcxUoDmupx4sKgQbhNAXXk9uvguLLYw5/view?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/13nWtOL4Inarpv31B_tWDVigAYN0fp9Rn/view?usp=sharing

INAF queue observing, 2025 May 20 - May 21

Observer: Andrea Rossi and Ester Marini
 Support: Alexander Becker
 Telescope operator: David Gonzalez Huerta
 Instrument: LBC , MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Ester Marini
 At sunset the sky is clear, we start with LBCs and we switch to MODS bino at 09:06UT.
 Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h* * 03m*
 Observing time: 8h 03min (100%)*
 Weather time loss: 0h 0min (0%)*
 Technical time loss: 0h 0min (0%)*
 Shark-VIS+NIR time loss: 0h 0min (0%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_to t	Notes
CALIB	Skyflats	LBCblue+red	r+z		
D'Onofrio	NGC3972	LBCblue+red	Uspec+z	1.8+1.8hr	we took 10 more exp due to bad seeing at the beginning completed
Bellazzini DDT	KK153	LBCblue+red	g-,r-sloan	0.5+0.5hr	we took additional exposures to compensate those on the red with fwhm >0.9" completed with fwhm <0.9"
Maiorano	GRB250430A _SNsearch	LBCblue+red	r-,z-sloan	1+1hr	due to an LBC error we could not take the last exposure, fwhm on average 1", with a couple of exposures >1.2" completed
Mura	C/2024E1	MODS1+2	dual grating	0.75+0.75hr	fwhm ~0.6" completed

STD	HIP94335	MODS1+2	dual grating	fwhm ~0.6" solar analog for Mura
Grazian	Q140822615664193 296	MODS1+2	dual grating	too high background, need to repeat

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1-YIM50cQwSPJBvpQ7Jjzu9GTNCuNXTvb/view?usp=sharing>
log from Alexander Becker:

https://drive.google.com/file/d/1psQ3_FOFrcTRPFEWLMjg_IAX0Xccb7fe/view?usp=sharing
Summary of LBC science files:

<https://drive.google.com/file/d/1ErSORqFYxgPioXx1HCpyxtTR0cG2GBJG/view?usp=sharing>
Summary of MODS science files:

https://drive.google.com/file/d/1oQsW-oT9GoL_UP0auLk-1HoYViU2fXGJ/view?usp=sharing
Summary of MODS calibration files:

https://drive.google.com/file/d/1btLB8raRLvz3LIGzqroz_em82mjsvut/view?usp=sharing

INAF queue observing, 2025 May 21 - May 22

Observer: Felice Cusano, Silvia Tosi

Support: Alexander Becker

Telescope operator: David Gonzalez-Huerta

Instrument: LUCI/SHARKs

Summary

These observations have been performed in C-19 mode by Felice Cusano and Silvia Tosi.

At sunset the sky is clear, the wind is below the limit. We open at 2:20UT and start with LUCI bino.

Before opening, a planned outage occurred on campus for ~10minutes.

Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h* * 03m* Observing time: 6h 23min (%)*

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Telluric	HIP62745	LUCI1+2	G210, K		for La Barbera
Baig	HD 115517	SHARK VIS+NIR		0.5h	
Lazzoni	TOI-1860	SHARK VIS+NIR		1h	FWHM~0.9"
Lazzoni	TOI-2260	SHARK VIS+NIR		1h	FWHM~1.1"

					e for the clouds
Palazzi	ZTF25aahdybs	MODS1+2	ima gr	0.1+0.1hr	fwhm 1"
Palazzi	ZTF25aambyih	MODS1+2	dual grating	0.5+0.5hr	average fwhm 1"
La Barbera	NGC4478	MODS1+2	dual grating	0.25h	average fwhm 1.2"
Ceccarelli	PWM2	MODS1+2	dual grating	1h	avg fwhm ~1", due to the presence of small veil we took one extra exposure
Ceccarelli	RLGC2	MODS1+2	dual grating	1h	avg fwhm ~1", due to the presence of small veil we took one extra exposure
Bragaglia	GDR3 20512932555034691 84	PEPSI	CD3-5	0.5h	SNR of 137 in red and 81 blue
Bragaglia	GDR3 20512932555034691 84	PEPSI	CD1-4	0.5h	SNR in red is 104 and 51 in blue

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1J_UcCcOdkYLZn4BHXZ4Nxrj6FjNyFFz/view?usp=sharing

log from Alexander Becker:

<https://drive.google.com/file/d/13io9v0i7dwWYIXA4k5bLp-RfWYzHjGCZ/view?usp=sharing>

Summary of MODS science files:

<https://drive.google.com/file/d/1LbkJ4iv40vb-PSvVSmFOOWPds1jnC9CQ/view?usp=sharing>

Summary of MODS calibration files:

<https://drive.google.com/file/d/1SAB2iCtrFAho3Vp8EuDAVeBiwWi9IApq/view?usp=sharing>

INAF queue observing, 2025 May 23 - May 24

Observer: Andrea Rossi, Ester Marini
 Support: Justin Rupert
 Telescope operator: David Gonzalez-Huerta
 Instrument: LUCI, PEPSI

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Ester Marini. At sunset the clear and we open with LUCIbino, but with wind guts above 17 m/s from south/south-west. At 4:50UT we switch to PEPSI.

Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h * 03m*

Observing time: 6h 25min (79.7%)*

Weather time loss: 1h 33min (19.3%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Palazzi_24	ZTF25aahdybs	LUCI1+2	J ima	0.16+0.16h	FWHM~0.9"
STD	HD 124773	LUCI1+2	zJspec		
Palazzi_24	ZTF25aahdybs	LUCI1+2	zJspec	0.5hr+0.5hr	
Ceccarelli_7	4568280292959145728	PEPSI1+2	PFU CD3-6	0.03+0.03hr	SNR ~50-65 on CD3-6
STD	HR 7001	PEPSI1+2	PFU CD3-6		NOT GOOD, saturated
Ceccarelli_7	4551000162059436160	PEPSI1+2	PFU CD3-6	0.01+0.01hr	SNR ~90-130 on CD3-6
Ceccarelli_7	4522118293705183744	PEPSI1+2	PFU CD3-6	0.03+0.03hr	SNR ~55-85 on CD3-6
Bragaglia_14	2051293049345067904	PEPSI1+2	PFU CD3-5	0.5+0.5hr	SNR 3-104 on CD3-CD5
Bragaglia_14	2051293049345067904	PEPSI1+2	PFU CD1-4	0.75+0.75hr	SNR 58-108 on CD1-CD4, we took 15 minutes more due to cloud

STD	HD 192281	PEPSI1+2	PFU CD3-5		for Bragaglia, SNR 120-150 on CD3-5
STD	HD 192281	PEPSI1+2	PFU CD1-4		for Bragaglia, SNR 64-135 on CD1-4
STD	HR4554	PEPSI1+2	PFU CD3-6		for Ceccarelli_7, SNR 1290-1000 on CD3-6, ok not saturated
Ceccarelli_7	44845185350858874 88	PEPSI1+2	PFU CD3-6	0.28+0.28 hr	SNR 300-560 on CD3-6
Ripepi	41155454495310621 44	PEPSI1+2	PFU CD2-CD4	0.42+0.42 hr	SNR 52-54 on CD1-CD4, increased exp time due to clouds
Ripepi	41155454495310621 44	PEPSI1+2	PFU CD2-CD6		aborted due to clouds, needs to be redone
Ceccarelli_7	43173013707909608 96	PEPSI1+2	PFU CD3-6	0.02+0.02 hr	SNR 71-102 on CD3-CD6 , doubled exp time due to clouds
Ceccarelli_7	43184650664205280 00	PEPSI1+2	PFU CD3-6	0.14+0.14 hr	SNR 55-136 on CD3-6, doubled exp time due to clouds

Ripepi	40996388491671636 48	PEPSI1+2	PFU CD2-CD4	0.14+0.14 hr	SNR 47-43 on CD2-CD4 with doubled exp time due to clouds too low SNR on CD4
Ripepi	40996388491671636 48	PEPSI1+2	PFU CD2-CD6	0.21+0.21 hr	SNR 52-64 on CD2-CD6 with tripled exp time due to clouds too low SNR on CD6
Ripepi	40996388491671636 48	PEPSI1+2	PFU CD2-CD4	0.25+0.25 hr	SNR 65-90 on CD2-CD4, with increased exp time due to clouds
Ripepi	40996388491671636 48	PEPSI1+2	PFU CD2-CD6	0.25+0.25 hr	SNR 61-83 on CD2-CD6, with increased exp time due to clouds

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1b-3LzXQsnIjwNCEuJERmcrW7gkalRI-m/view?usp=sharing>

log from Justin Rupert:

<https://drive.google.com/file/d/1UBLVfYipoCoKvXMvpg72HO6oBSetGtGb/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1vcdscTcnEQMeTc73qN-X0XSHFbBous62/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1oRn-rV_JTLPD5eNXbddYMWBityINcUmq/view?usp=sharing

INAF queue observing, 2025 May 24 - May 25

Observer: Felice Cusano, Silvia Tosi

Support: Justin Rupert

Telescope operator: David Gonzalez-Huerta

Instrument: MODS

Summary

These observations have been performed in C-19 mode by Felice Cusano and Silvia Tosi. At sunset there are some clouds, we open with MODSbino, but with wind gusts above 18 m/s from south/south-west. We closed at 03.11 the telescope operator is sick and he has to leave the mountain. We stayed all night closed due to lack of personnel.

Night duration (12 degree - twilight) 3:14 - 11:17 UT = * 8h* * 03m*

Observing time: h min (%)*

Weather time loss: h min (%)*

Technical time loss: 8h 3min (100%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1kb5BfqKrwWhvxoRI4UoX4oFbm03s93uA/view?usp=sharing>

log from Justin Rupert:

INAF queue observing, 2025 June 27 - June 28

Observer: Andrea Rossi, Ester Marini.

Support: Justin Rupert

Telescope Operator: Steve Allanson

Instrument: SHARK-NIR/MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Ester Marini. At sunset there are some cirrus, we open. We tried starting with SHARK, but we had to stop because of a technical problem with the telescope drives. Steve and the team at the summit need some day-time to fix that, they cannot solve it tonight. He calls the night at 6:35UT.

Night duration (12 degree - twilight) 3:35 - 11:05 UT = * 7h* * 30m*

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

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1hdFVzEaET-lpoX_H9rigAZvGbugBMNrd/view?usp=sharing

log from Justin Rupert:

https://drive.google.com/file/d/1hwdwFE_A5dTlI9EfKFMNy6DtisnerL0/view?usp=sharing

INAF queue observing, 2025 June 28 - June 29

Observer: Felice Cusano, Silvia Tosi.
Support: Justin Rupert
Telescope Operator: Steve Allanson
Instrument: LUCI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Silvia Tosi. Still technical problems with the telescope drives. We stay closed all the night
Night duration (12 degree - twilight) 3:35 - 11:05 UT = * 7h* * 30m*
Observing time: 0h 0min (0%)*
Weather time loss: 0h 0min (0%)*
Technical time loss: 7h 30min (100%)*
Shark-VIS+NIR time loss: 0h 0min (0%)*
Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:
log from Justin Rupert:

INAF queue observing, 2025 June 29 - June 30

Observer: Ester Marini, Felice Cusano
Support: Justin Rupert
Telescope Operator: Steve Allanson
Instrument: PEPSI

Summary

These observations have been performed in C-19 mode by Ester Marini and Felice Cusano. . Tests to solve the technical issue are still going on at sunset. The work extends into night time until 5:31UT, when every issues is solved except for one related to LUCI that prevents from using the instrument tonight. Then, we stay closed due to clouds until 07:20. We open and use PEPSI. Closed again at 8:21 for high particle counts. Opening again at 8:41.
Night duration (12 degree - twilight) 3:35 - 11:05 UT = * 7h* * 30m*
Observing time: 3h 10min (0%)*
Weather time loss: 2 h 20min (0%)*
Technical time loss: 2 h 0min (0%)*
Shark-VIS+NIR time loss: 0h 0min (0%)*
Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to	Notes
Bragaglia 14	205129311806454297 6	PEPSI bino	D300 CD3-5	1h	S/N=56 in CD3, S/N=74 in CD5
Bragaglia 14	205129311806454297 6	PEPSI bino	D300 CD1-4	0,44h	stop after 12 min for high particle counts
Bragaglia 14	205129311806454297 6	PEPSI bino	D300 CD1-4	0,56h	18min to complete exposure
STD	HD192201	PEPSI bino	D300 CD123-456		standard star
Ceccarelli 9	419630073459962892 8	PEPSI bino	D300 CD3-6	0,56h	completed S/N=78 in CD6
Ceccarelli 9	419479917967054233 6	PEPSI bino	D300 CD3-6	0,95h	completed S/N=80 in CD6
Ceccarelli 9	419630048978179724 8	PEPSI bino	D300 CD3-6	0,95h	completed S/N=78 CD6
Ceccarelli 9	419630087203858329 6	PEPSI bino	D300 CD3-6	0,95h	completed , last minutes in twilight -12, but should be ok

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1UIxCr1F8-H9pEaiwztj8dVI-zhguBYAn/view?usp=sharing>

log from Justin Rupert:

https://drive.google.com/file/d/1h2HR62b5toZtR8nOxeyAu1sDlml2PbG_/view?usp=sharing

INAF queue observing, 2025 June 30 - July 01

Observer: Andrea Rossi, Silvia Tosi

Support: Justin Rupert
Telescope Operator: Steve Allanson
Instrument: MODS

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Silvia Tosi.

. At sunset the sky is overcast, with high chances of rain, we stay closed.

Night duration (12 degree - twilight) 3:35 - 11:05 UT = * 7h* * 30m*

Observing time: 4 h 14 min (%)*

Weather time loss: 3h 16 min (%)*

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
std	BD33	MODS1+2			
solar analogue	Land107998	MODS1+2			
Mura	C/2024 E1	MODS1+2	dual grating	1h+1h	we took an additional offset due to the clouds coverage. Completed
izzo	SN_Euclid_245	Mods1+2	dual grating	1h+1h	We took only 3/4 offset because of the bad weather conditions
izzo	SN_Euclid_245	Mods1+2	imaging	180s	

Further details in the log by LBT-Italia at this link:

https://docs.google.com/document/d/16LoFQ1z9S0K6GLt_N3Vqd3-N9_-uPNUDR-xrG0iSHv4/edit?usp=sharing

log from Justin Rupert:

<https://docs.google.com/document/d/1SK1IVfHkiWnYrZ3un-ueG5JQeYSj8mCGJm5PFbhdWHA/edit?usp=sharing>

Summary of MODS science files:

https://drive.google.com/file/d/1YD5YsgHvUY2ILb0_CaaXkLkS94qmxfo9/view?usp=sharing

Summary of MODS calibration files:

<https://drive.google.com/file/d/1QkTkz-ENOLqqVsP0IYRikMRyg5Gvbri-/view?usp=sharing>

INAF queue observing, 2025 July 01 - July 02

Observer: Felice Cusano, Ester Marini

Support: Justin Rupert
Telescope Operator: David Gonzales Huerta (remotely from Tucson)
Instrument: SHARK-NIR/PEPSI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Ester Marini.
. At sunset the sky is clear, we open at 02:47UT with SHARK-NIR. The very poor seeing prevents us to acquire any science data. We switch to PEPSI at 04:06UT, but we close at 04:28UT due to clouds and rain/thunders all around the mountain. We re-open at 09:32UT but we close again due to fog and heavy clouds close to the mountain at 9:54UT and stay closed until the end of the night.

Night duration (12 degree - twilight) 3:35 - 11:05 UT = * 7h* * 30m*

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

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1EbZtNZm9kD1lexwaiN1rH-RKSTImR-Vo/view?usp=sharing>

log from Justin Rupert:

<https://drive.google.com/file/d/1EbZtNZm9kD1lexwaiN1rH-RKSTImR-Vo/view?usp=sharing>

INAF queue observing, 2025 Sept 08 - Sept 09

Observer: Felice Cusano, Ester Marini

Support: Justin Rupert

Telescope Operator: Alexander Becker

Instrument: PEPSI/LUCI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Ester Marini.

. At sunset the sky is patchy cloudy. We can not use LUCI2 for a problem with rotator, also LUCI1 was problem with large offset. We decided to start with PEPSI, but then due to a problem with the blue side, we reconfigure to LUCI1.

Night duration (12 degree - twilight) 2:30 - 12:06 UT = * 9h* * 36m*

Observing time: 7h 30min (78.1%)*

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

Technical time loss: 2h 6min (21.9%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Rainer	WASP-92	PEPSI-BIN O	CD1-4		CD4 S/N=117, problem with blue CD. to be redone
Rainer	WASP-92	PEPSI-BIN O	CD2-5		CD5 S/N= 137 problem with blue CD. to be redone
Rainer	WASP-92	PEPSI-BIN O	CD3-6		CD6 problem with blue CD. to be redone
Almendros	HD197291	LUCI1	G210-JHK		telluric for CygOB2a
Almendros	CygOB2a	LUCI1	G210-JHK	1.25hr	seeing 0.8" completed

Almendros	HD197291	LUCI1	G210-JHK		telluric for CygOB2b , some K band exp are missing due to an error
Giannini	Gaia22bvi	LUCI1	ima J,H,Ks		
Giannini	HIP 19813	LUCI1	G200/zj,HK		Telluric for Gaia22bvi
Giannini	gaia22bvi	LUCI1	G200/zj,HK	0.75+0.75hr	additional exp due to bad seeing, then see ~1" completed
Maiorano	GRB250818B	LUCI1	ima J		stop after 10 exp due to clouds, variable seeing up to 1.5"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/11-vXeGWBGRpiQT6Xu-CwO8gEV2dla120/view?usp=sharing>

log from Alexander Becker:

https://drive.google.com/file/d/1SDzfozGm_FCqfS5jmspj_sUGTX8Bd3j/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1-e8BLvRn8-7gT5CB-TpWUN-HrwT4q6Zn/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1ZndAPqWqwg5NW_r_Ejkm1B_gpQFTge_S/view?usp=sharing

INAF queue observing, 2025 Sept 09 - Sept 10

Observer: Andrea Rossi, Silvia Tosi

Support: Justin Rupert

Telescope Operator: Alexander Becker

Instrument: PEPSI/LUCI

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Silvia Tosi

. At sunset the sky is cirrus

Night duration (12 degree - twilight) 2:30 - 12:00 UT = * 9h* * 30m*

Observing time: 7h 57min (83.7%)*

Weather time loss: 0h 31min (5.4%)*

Technical time loss: 1h 02min (10.9%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Rainer	WASP 92	PEPSI-BIN O	CD1-4	0.66/0.5 hr	SNR 55-90 , but see CD4 from yesterday
Rainer	WASP 92	PEPSI-BIN O	CD2-5	0.73/0.5 hr	SNR 65-100 completed
Rainer	WASP 92	PEPSI-BIN O	CD3-6	0.73/0.5 hr	SNR 55-56, TBD again!

Rainer	TrEs 5	PEPSI-BIN O	CD1-4	0.856 hr+0.856 hr	SNR 101 in red, 53 in blue. We added 10 minutes extra to the exposure due to the presence of clouds. Completed
Rainer	TrEs 5	PEPSI-BIN O	CD2-5	0.856 hr+0.856 hr	SNR 115 in red, 65 in blue. We added 10 minutes extra to the exposure due to the presence of clouds. Completed
Rainer	TrEs 5	PEPSI-BIN O	CD3-6	2 hr + 2h	We took two exposure and for both of them we added 18 minutes extra to the exposure due to the presence of clouds and seeing bubbles. In the first exposure we achieved SNR 131 in red and 92 in blue. In the second one SNR equal to 121 in red and 85 in blue Completed
Rainer	Qatar 4	PEPSI-BIN O	CD1-4	0.856h hr + 0.856h	SNR 123 in red and 56 in blue. We added 10 minutes extra to the exposure due to the presence of a little bit of clouds. Completed
Rainer	Qatar 4	PEPSI-BIN O	CD2-5	0.69h + 0.69	SNR 123 in red and 67 in blue. Completed

Rainer	Qatar 7	PEPSI-BIN O	CD1-4	0.5h + 0.5	SNR 105 in red and 53 in blue. Completed
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Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1omltnWf2dFe15ndeKIWWk7qgpekSfB0K/view?usp=sharing>

log from Alexander Becker:

<https://drive.google.com/file/d/1Km0hFRMFhCep1CWfQKwJRLPtaFaEJ8E8/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1IKnPh90Q3FB1SOflUrmEzp4eefsWE5u/view?usp=sharing>

INAF queue observing, 2025 Sept 10 - Sept 11

Observer: Silvia Tosi, Felice Cusano

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: PEPSI

Summary

These observations have been performed in C-19 mode by Felice Cusano and Silvia Tosi.

. At sunset the sky is covered by clouds and it is raining. We stay closed. We open at 05:00 then we closed again after 30 minutes for high humidity. Starting observations again at 08:10 with PEPSI

We switch to LUCI at the end of the night

Night duration (12 degree - twilight) 2:30 - 12:06 UT = * 9h* * 36m*

Observing time: 3 h 0 min (%)*

Weather time loss: 5h 20 min (0%)*

Technical time loss: 0h 45 min (%)*

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

Data Summary

Project_RUN	Objects	Instrumen t	Configuration	ExpTime /Time_tot	Notes
Rainer	Qatar-4	PEPSI-BIN O	CD3-6	41min+41mi n	S/N(CD6)=130, summing a 10 min exposure before closing
Rainer	Qatar-7	PEPSI-BIN O	CD2-5	41min+41mi n	S/N(CD5)= 151 completed
Rainer	Qatar-7	PEPSI-BIN O	CD3-6	41min+41mi n	S/N(CD6)= 145 completed
Maiorano	GRB250818 B	LUCI1-2	imag J	30min+30mi n	seeing <1"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1QQuYpmfz2BmmaML4zdh8lz6FLEbGu6OV/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1ZbJqMcK9hgNs2mnS-wt_keqGfBPAjqb9/view?usp=sharing

Summary of LUCI science files:

https://drive.google.com/file/d/1v7wTO9Iro5_NbB_6icC0SdWGrGtHRZu6/view?usp=sharing

log from Alexander Becker:

<https://drive.google.com/file/d/1ZU78cCQKPI-UhadYY1F2CaorM9rWeR4z/view?usp=sharing>

INAF queue observing, 2025 Sept 11 - Sept 12

Observer: Andrea Rossi, Felice Cusano

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: LUCI

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano.

. At sunset the sky is cloudy. High chances of raining. We stay closed. We opened only for 30 minutes. All the night was lost for bad weather.

Night duration (12 degree - twilight) 2:30 - 12:06 UT = * 9h* * 36m*

Observing time: 0 h 36 min (%)*

Weather time loss: 9 h min (%)*

Technical time loss: h min (%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Malizia	HIP110963	LUCI-BINO	zJ+HK 1"slit		telluric
calib					LUCI

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1RjXGvM4_18U_Xu7hA8CG52Ec44LUX5n0/view?usp=sharing

log from Alexander Becker:

<https://drive.google.com/file/d/1ENI8p1ShELRyVJtSA7NfB1jmcs3BdyZe/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1RW3ccPEX4pnM1MT6W-4yGcGD-AkK_e7C/view?usp=sharing

INAF queue observing, 2025 Sept 12 - Sept 13

Observer: Ester Marini, Silvia Tosi

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument:

Summary

These observations have been performed in C-19 mode by Ester Marini and Silvia Tosi.

. At sunset the sky is foggy and cloudy, humidity is 99.60%. We stay closed.

Night duration (12 degree - twilight) 2:30 - 12:06 UT = * 9h* * 36m*

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

Weather time loss: 9 h 36 min (100%)*

Technical time loss: h min (0%)*

Shark-VIS+NIR time loss: 0h 0min (00%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
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Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/12GPXBsXyk_Ejl1fvf0q-nZzFE9VI-3KO/view?usp=sharing

log from Alexander Becker:

https://drive.google.com/file/d/1BwccgqzhR1byBH0U_z_x_NO0tb6m4MYN/view?usp=sharing

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INAF queue observing, 2025 Oct 23 - Oct 24

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: LBC/PEPSI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear, with wind guts from SSW around 10-15 m/s but decreasing.

We tried to start with LBC but at 2:10 UT we switched to PEPSI, as wind was still too high.

At 7:35 UT we gave the telescope for 1.5 hours of SHARK-GTO observations and got it back to finish the night again with PEPSI.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 9h 32min (85%)*

Weather time loss: 0h 10min (2%)*

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

Shark-VIS+NIR time loss: 1h 28min (13%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_tot	Notes
Leitinger	KIC 4758008	PEPSI BINO	PFU CD3-5	0.44h x2	SNR 106-160 on CD3-5
Leitinger	KIC 6183076	PEPSI BINO	PFU CD3-5	0.42h x2	SNR 106-154
Leitinger	KIC 10398120	PEPSI BINO	PFU CD3-5	0.03h x2	SNR 110-180
Leitinger	KIC 7542572	PEPSI BINO	PFU CD3-5	0.42h x2	SNR 102-164
Leitinger	KIC 2995050	PEPSI BINO	PFU CD3-5	0.25h x2	SNR 100-157
Leitinger	KIC 5184073	PEPSI BINO	PFU CD3-5	0.25h x2	SNR 102-167

Leitinger	KIC 8110538	PEPSI BINO	PFU CD3-5	0.25h x2	SNR 117-195
Tosi	HR 153	PEPSI BINO	PFU		CD14 CD25 CD36
Tosi	PNG167.4-0 9.1	PEPSI BINO	PFU CD1-4	0.7h x2	SNR 70 100 = completed =
Rainer	HAT-P 51	PEPSI BINO	PFU CD1-4	0.7h x2	SNR 55-100
Rainer	HAT-P 51	PEPSI BINO	PFU CD2-5	0.83h x2	SNR 70-140 ; CD3-6 TBD
Tosi	PNG167.4-0 9.1	PEPSI BINO	PFU CD2-5	0.67h x2	SNR 83 135 = completed =
Tosi	PNG167.4-0 9.1	PEPSI BINO	PFU CD3-6	0.5h x2	SNR 85 115 = completed =
Tosi	HR 1544	PEPSI BINO	PFU		CD14 CD25 CD36
CALIB		PEPSI BINO			

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1BidPFq1AWH8P-UTdjuXoGsw6ZNLzbSAC/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1lxEkVgIGVexOQB5d_c2fYajkh4uPClqy/view?usp=sharing

INAF queue observing, 2025 Oct 24 - Oct 25

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: LBC/PEPSI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear. We start with LBC

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 8h 35min (77%)*

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

Technical time loss: 0h 55min (8%)*

Shark-VIS+NIR time loss: 1h 40min (15%)*

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTim e	Notes
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				/Time_to t	
CALIB	SKYFLATS	LBC bino	rz		0 and 180 TBD again too many stars
Palazzi	SN2025sei	LBC bino	ugriz	0.15+0.1 5h	FWHM ~1"
Cusano	halo1	LBC bino	BV	0.47h x2	BV1 with FWHM ~1"
Cusano	halo1	LBC bino	BI	0.47h x2	bad FWHM, TBD again
Troja	EP241021a	LBC bino	rz	0.4 h x2	FWHM ~1"
Palazzi	SN2024rmj	LBC bino	ugriz	0.15+0.1 5h	FWHM ~1"
Giunta	2022 UY3	LBC bino	griz	0.29h	FWHM ~1" completed NOTE: wrong PI name
D'Orazi	Gaia DR3 3326852328563919 744	PEPSI BINO	PFU 300 CD15	0.5h x2	SNR 65 110 on CD15, FWHM ~0.7"
D'Orazi	Gaia DR3 3326852328563919 744	PEPSI BINO	PFU 300 CD24	0.5h x2	SNR 70 90 on CD24, FWHM ~0.7"
Rainer	HAT-P 68	PEPSI BINO	PFU 200 CD36	0.83h x2	SNR 80+150; CD14 & CD25 TBD
Tosi	PNG235.3-03.9	PEPSI BINO	PFU 300 CD36	0.25h x2	SNR 90+130 ; CD14 & CD25 TBD
Tosi	HR1544	PEPSI BINO	PFU 300 CD36		
CALIB		PEPSI BINO			
CALIB	DARK	LUCI BINO			Almendros, Giannini

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/16rBssQVhcZF-H7LiFvrk5E-d3_B1ll-o/view?usp=sharing

Summary of LUCI calibration files:

https://drive.google.com/file/d/170oC2Gy3ih0sK6dpPHU-G6_RcfkvIhel/view?usp=sharing

Summary of LBC calibration files:

<https://drive.google.com/file/d/1Pd821h23OSQ-hNnV7tRek-AfzGvq-SUo/view?usp=sharing>

Summary of LBC science files:

https://drive.google.com/file/d/1vaB0TD-0RKf1bU8_vshS0efUNIKCMeFZ/view?usp=sharing

INAF queue observing, 2025 Oct 25 - Oct 26

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: LBC/PEPSI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear. We start with LBC.

We switched to PEPSI at 09:20 UT, as the instrument is exceptionally available but not for radial velocity measurements.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h * 10m*

Observing time: 11h 0min (98.5%)*

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

Technical time loss: 0h 10min (1.5%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB	DARKS	LUCI bino			Maiorano
CALIB	SKYFLATS	LBC bino	rz		very good , few stars
Palazzi_12	SN2025sei	LBC bino	ugriz	0.15h x2	only LBCb is ok, red elongated
Cusano_10	halo1	LBC bino	BI	0.7h x2	2_BI and repeated first part; FWHM<1" first 2 I-band are elongated
Cusano_10	halo1	LBC bino	BV	0.47h x2	3_BV; FWHM~0.7"
Cusano_10	halo1	LBC bino	BI	0.47h x2	4_BI; FWHM~0.9-1" last 3 offset elongated. high EL
Palazzi_12	SN2024adhq	LBC bino	ugriz	0.15h x2	FWHM <1"

Cusano_10	halo1	LBC bino	BI	0.47h x2	4_BI repeated, 2nd and 3rd are elongated
Cusano_10	halo1	LBC bino	BV	0.47h x2	5_BV FWHM ~1"
Cusano_10	halo1	LBC bino	BI	0.7h x2	6_BI FWHM ~1", 2 more exposures
Palazzi_12	SN2025wny	LBC bino	ugriz	0.15h x2	FWHM ~1"
Rainer_18	HAT-P 51	PEPSI BINO	PFU 200 CD36	0.7h x2	SNR 80 110, need 150 on CD6, TBD again
Rainer_18	HAT-P 68	PEPSI BINO	PFU 200 CD25	1hx2	SNR 65 151, more exp to reach SNR, after P51 bad result, CD14 TBD
Tosi_48	PNG235.3-0 3.9	PEPSI BINO	PFU 200 CD25	0.35h x2	SNR 100 160 , CD14 TBD
STD	HR1544	PEPSI BINO	PFU 200 CD25		
CALIB	DARKS	LUCI bino			Malizia
CALIB		PEPSI bino			
CALIB	BIAS	LBC bino			

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1d0pOqChETpWNsycg9Bu3l4rNN82Rc4XE/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1SHAkzCdv-CP_p9UjaOh5Z_1G5lwXipSA/view?usp=sharing

INAF queue observing, 2025 Oct 26 - Oct 27

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Alexander Becker

Telescope Operator: Riccardo Ansaldi

Instrument: PEPSI/LUCI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear and we can open. We start with PEPSI.

. We switch to LUCI at 5:00 UT. Due to a MOS error in LUCI we will not be able to use MOS slit tonight.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 10h 18min (92%)*

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

Technical time loss: 0h 52min (8%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to	Notes
Rainer_18	HATP-51	PEPSI BINO	PFU 200 CD36	3/1.4 h	SNR~100-150, extended exp because to reach SNR~150 with bad seeing
STD	HR 151	PEPSI BINO	PFU 300 CD14,25,36		for Tosi
Tosi 48	PNG058.3-1 0.9	PEPSI BINO	PFU 300 CD14	0.13/0.1 h	SNR 60-100; more exp for bad seeing
Tosi 48	PNG058.3-1 0.9	PEPSI BINO	PFU 300 CD25	0.2/0.08 h	SNR 90-140; 1min for bad seeing, + 2.5min from discarded target
Tosi 48	PNG058.3-1 0.9	PEPSI BINO	PFU 300 CD36	0.08 h	SNR 90-100
Leitinger 21	KIC_685195 7	PEPSI BINO	PFU 300 CD35	0.16h	
Leitinger 21	KIC 3946701	PEPSI BINO	PFU 300 CD35	0.5/0.17 h	variable seeing
Troja_47	EP241021a	LUCI BINO	J ima	1h	FWHM <1"
Maiorano 23	GRB 250818B	LUCI BINO	J ima	2.3h	DIMM~1-1.3"
STD	HIP8535	LUCI-BIN O	zJHK 1"slit		telluric for Malizia
Malizia 28	NGC513	LUCI-BIN O	zJHK 1"slit	0.07h	DIMM<1.5" completed
STD	HD12381	LUCI-BIN O	zJHK 1"slit		telluric for Malizia

Malizia 28	IGRJ02343	LUCI-BIN O	zJHK 1"slit	0.07h	DIMM<1.5" completed
Malizia 28	IGRJ03249	LUCI-BIN O	zJHK 1"slit	0.35h	DIMM<1.5" completed
STD	HD12381	LUCI-BIN O	zJHK 1"slit		telluric for Malizia
STD	HIP17971	LUCI-BIN O	zJHK 1"slit		telluric for Malizia
Giannini	Gaia22ehn	LUCI-BIN O	zJHK 1"slit	0.01 h	
Giannini	Gaia22ehn	LUCI-BIN O	zJHK 1"slit	0.5h	DIMM<1.5" HKspec TBD
CALIB		PEPSI BINO			
CALIB	flats	LUCI BINO			for Maiorano, Troja, Girardi, Giannini
CALIB	flats, lamps	LUCI BINO			for Malizia

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1Fj4CJFVJxj_CT-FOXcRGk_8ayrSQVPYX/view?usp=sharing

Summary of LUCI science files:

https://drive.google.com/file/d/127a0ZFzg5yFV_GUNpuc2X7vhHRBENT_I/view?usp=sharing

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1V6uLbUHMdxdxds6pQLmnwdv6oNdBhUFnH/view?usp=sharing>

INAF queue observing, 2025 Oct 27 - Oct 28

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Jenny Power

Telescope Operator: Riccardo Ansaldi

Instrument: PEPSI/LUCI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear and we can open. We start with PEPSI. At 8 UT we Switched to SHARK-VIS

.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 8h 13min (72%)*

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

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

Shark-VIS+NIR time loss: 2h 57min (28%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
CALIB	DARK				for Grillo DDT
Munaretto	C/2025 R2	PEPSI BINO	PFU	2h	see log for details
STD	HR7950	PEPSI BINO	PFU		std
Leitinger	KIC9453022	PEPSI BINO	PFU CD35	0.56/0.28 h	named LAMOST J190337.55+460028.4
Girardi	Perseus_014	LUCI BINO	Ks ima	0.67h	FWHM ~0.7"
Giunta	2022 UY3	LUCI BINO	z,J,Y1,Y2,H,Ks	0.93h	half sequence
Marini	PNG 219.5	SHARK VIS	Halpna,cnt647, V	0.5h	
std	PSFstar	SHARK VIS	Halpna,cnt647, V		for Marini
Marini	IC2149	SHARK VIS		0.15h	

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1YPt3J5XnuGYpCsTgMHZH6v6ioZSjvVd/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/117rtTEKvtiv7nvvvOPo3DzSbSg8KDhH/view?usp=sharing>

Summary of LUCI science files:

https://drive.google.com/file/d/1av0WIHGp_9OASR6-5J0OddfQHib8C95M/view?usp=sharing

INAF queue observing, 2025 Oct 28 - Oct 29

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Dave Thompson

Telescope Operator: Steve Allanson, Jon Rees

Instrument: LUCI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear but the crew is putting down MODS to install PEPSI POL, we open at 1:26UT and we start with LUCI.

. SHARK-VIS team took the control at 8:00UT and we got it back at 11:00UT.

.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 7h 57min (71%)*

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

Technical time loss: 0h 15min (2%)*

Shark-VIS+NIR time loss: 2h 58min (27%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
Telluric	HIP HIP98165	LUCI BINO	zJ200 1"slit		for Fontana
Ddt Fontana		LUCI BINO	zJ200 1"slit	1h	not GOOD DIMM>>1.2" most of the time, HK only test
Telluric	HD 197291	LUCI2	JHKG210 975312		for Almendros CygOB2b
Almendros-A bad	CygOB2b	LUCI2	JHKG210 975312	1.25h	first script bad seeing>1.5"
Telluric	HD 197291	LUCI2	JHKG210 975312		for Almendros CygOB2b
Girardi	Perseus z_14	LUCI BINO	Ks ima	0.67h	completed
Maiorano	GRB250818 B	LUCI BINO	J	1h	FWHM < 1"
Troja	GRB251026 B	LUCI BINO	K	0.5h	FWHM < 1"
Giannini	Gaia22ehn	LUCI BINO	H,K	0.1h	
Giannini	Gaia22ehn	LUCI BINO	200HK 0.75"	0.5h	completed
Telluric	HIP17971	LUCI BINO	200HK 0.75"		

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1DrIWuMzZPuHK93uWxdfSE_nEYiN_eCi_/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1ahfaUmFkadKHrsKGdAiGhs5o6ktTfGEB/view?usp=sharing>

INAF queue observing, 2025 Oct 29 - Oct 30

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Dave Thompson

Telescope Operator: Steve Allanson, Jon Rees

Instrument: LUCI/PEPSI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

. At sunset the sky is clear but the crew is taking time to balance telescope after mounting PEPSI polarimeter.

We open at 2:45UT and we start with LUCI2.

. At 08:09 leaving the telescope to SHARK.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 7h 23min (66%)*

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

Technical time loss: 1 h 20 min (12%)*

Shark-VIS+NIR time loss: 2 h 27 min (22%)*

Data Summary

Project_R UN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
Telluric	HD 197291	LUCI	JHKG210 975312		for Almendros B
Almendros -Abad	CygOB2 b	LUCI2	JHKG210 975312	0.62h	FWHM<1" mask B completed
Almendros -Abad	CygOB2 c	LUCI2	JHKG210 975435	0.84h	FWHM<1" mask C, J completed , HK need another
Telluric	HD 197291	LUCI2	JHKG210 975435		for Almendros C
Giunta	2022UY 3	LUCI BINO	z,J,Y1,Y2,H, Ks	1h	Per filter: 0.05h,0.06h,0.28h,0.28h,0.08h ,0.11h
Rainer	HAT-P 68	PEPSI BINO PFU	D300/CD1-4	0.83h+0.8 3h	SNR CD1 55 and CD4 120 completed
Tosi	PNG23 5.3	PEPSI BINO PFU	D300/CD1-4	0.33h+0.3 3h	SNR 70 on CD1, 136 on CD4 completed
Tosi	STD HR1544	PEPSI BINO PFU	D300/CD1-4	0.04h+0.0 4h	
Calib		LUCI1-2			ima flats Giunta, flats Giannini
Calib		PEPSI BINO			

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1o6b-w_F9XRHw8y0Wnw-bvxOWn6meq74L/view?usp=sharing

Summary of LUCI science files:

<https://drive.google.com/file/d/1n0r6sJelJYstL1t8EIK8cPIZTaNLYbz6/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1i3GgEjElcsknNjxilsvyhcvSXGSZPZmw/view?usp=sharing>

INAF queue observing, 2025 Oct 31 - Nov 01

Observer: Silvia Tosi, Ester Marini, Andrea Rossi

Support: Olga Kuhn

Telescope Operator: Steve Allanson, Jon Rees

Instrument: PEPSI/LUCI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.

At sunset the sky is clear and we can open. We start with PEPSI. At 8 UT we Switched to SHARK-VIS

.

Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: 7h 33in (68%)*

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

Technical time loss: 0 h 7min (1%)*

Shark-VIS+NIR time loss: 3 h 30 min (31%)*

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB	DARK	LUCI BINO			Giunta
CALIB	FLAT	LUCI2	G210J		Almendros mask b
CALIB	FLAT	LUCI2	G210H		Almendros mask b
CALIB	FLAT	LUCI2	G210K		Almendros mask b
Giarrusso	WD2047+37 2	PEPSI POL	CD3-5	4.25h +4.25h	SNR 60-80 on both the CD for each exposure
Giannini	Gaia22efa	LUCI BINO	clear J	0.01h+0.01	Almost saturated, star in outburst

Grillo	SN_2025wny	LUCI BINO	clear J, zJspec	0.58h +0.58h	FWHM ~ 0.8"
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CALIB	HIP 30155	LUCI BINO	clear J, OH_1060 z
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Further details in the log by LBT-Italia at this link:
https://drive.google.com/file/d/1xGGNYv5SLCH3NUIfEtXu4Kwgu_g_VkU_/view?usp=sharing
 Summary of LUCI calibration files:
<https://drive.google.com/file/d/13SZXMm4140ePxQ6EqFq4FoQsrDJeyl7I/view?usp=sharing>
 Summary of LUCI science files:
https://drive.google.com/file/d/1dxMm30r14Y5e-HagGBC6yyGz9PIW8X_r/view?usp=sharing

INAF queue observing, 2025 Nov 01 - Nov 02

Observer: Silvia Tosi, Ester Marini, Andrea Rossi
 Support: Olga Kuhn
 Telescope Operator: Steve Allanson, Jon Rees
 Instrument: PEPSI/LUCI

Summary

These observations have been performed in situ-mode by Silvia Tosi, Ester Marini, Andrea Rossi.
 At sunset the sky is clear and we can open. We start with PEPSI. At 02:27 UT we switched to LUCI
 .
 Night duration (12 degree - twilight) 1:30 - 12:40 UT = * 11h* * 10m*

Observing time: h min (%) * 7h 10m
 Weather time loss: h min (%) *
 Technical time loss: h 15min (%) *
 Shark-VIS+NIR time loss: h min (%) * 4h
 Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB	DARK	LUCI 2			Almendros b: K lambda 2.25. Mask c TBD
Munaretto	C/2025 R2 SWAN	PEPSI BINO	CD14	0.5+0.5h	second round completed
Munaretto	C/2025 R2 SWAN	PEPSI BINO	CD26	0.5+0.5h	second round completed
STD	HR 7950	PEPSI BINO	CD14+CD26		

Fontana	pivot	LUCI 2	zj200 1" slit	1.08/1h	first exp wrong grat; completed
std	HIP9816 5	LUCI 2	zj200 1" slit		telluric for Fontana
std	HD 197291	LUCI 2	K210 mask975312 2.25um		telluric for Almendros CygOB2b
Almendros-A bad	CygOB2b	LUCI 2	K210 mask975312 2.25um	0.42h	FWHM<1" completed
Telluric	HIP3015 5	LUCI 2	G200 zJspec		telluric for Grillo
Grillo	SN2025	LUCI 2	G200 zJspec		seeing 0.6"

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1znKZWkJ6Qi2aqy4vs5FxFxKII94r70mYLT/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1XXUL6tha8lcgQ0Z4TdY8XxvKKYdpl40J/view?usp=sharing>

Summary of LUCI calibration files:

https://drive.google.com/file/d/1_YSHWbOoELPoYv_ni_LwfcjuyRQIfXu5/view?usp=sharing

INAF queue observing, 2025 Dec 13 - Dec 14

Observer: Andrea Rossi, Felice Cusano

Support: Jon Rees

Telescope Operator: Steve Allanson

Instrument: PEPSI/LUCI

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Felice Cusano . At sunset the sky is clear, we open and start with PEPSI. We switch to LUCI for a backup program and then back to PEPSI.

Night duration (12 degree - twilight) 1:15 - 13:15 UT = * 12h* **0m**

Observing time: 11 h 30 min (%)*

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

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

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

Data Summary

Project_R UN	Objects	Instrume nt	Configurati on	ExpTim e /Time_t ot	Notes

CALIB	Darks	LUCI BINO			Marziani, Maiorano
CALIB		PEPSI BINO			All config
Leitinger	KIC2995050	PEPSI BINO	PFU CD3-5	0.33hx2	+5min SNR 110-160 completed
Leitinger	KIC3946701	PEPSI BINO	PFU CD3-5	0.16hx2	SNR 105-150 completed
Leitinger	KIC4758008	PEPSI BINO	PFU CD3-5	0.43hx2	SNR 100-140 completed
Leitinger	KIC5184073	PEPSI BINO	PFU CD3-5	0.25hx2	SNR 100-150 +2min for cirrus completed
Leitinger	KIC6851957	PEPSI BINO	PFU CD3-5	0.12hx2	SNR 110-140 +2min completed
Leitinger	KIC7542572	PEPSI BINO	PFU CD3-5	0.48hx2	SNR 80-110 +4min check ! ?
Maiorano	GRB250818B	LUCI BINO	Jima	2h	completed
STD	HD 9930	LUCI BINO	KG210 0.75slit		Telluric for Marziani
Marziani	WINGSJ011457	LUCI BINO	KG210 0.75slit	0.64/0.5 3h	3offset more, FWHM~0.7" w some extinction completed
D'Orazi	Gaia DR3 3326852328563919 744	PEPSI BINO	PFU CD1-5	1h	S/N=100 CD5, S/N=44 CD1
D'Orazi	Gaia DR3 3326852328563919 744	PEPSI BINO	PFU CD2-4	1h	S/N=67 in CD4
Rainer	Qatar-9	PEPSI BINO	PFU CD1-4	1.23h	S/N=74 CD4 completed
Rainer	Qatar-9	PEPSI BINO	PFU CD2-5	1.7h	more exp for clouds, S/N=108 CD5 completed

D'Orazi	Gaia DR3 3326852328563919 744	PEPSI BINO	PFU CD2-4	10min	for RV
Rainer	Qatar-9	PEPSI BINO	PFU CD3-6	2x1.7h	S/N=82 CD6 on the first exp, take one more completed
Bragaglia	1452626177948989 440	PEPSI BINO	PFU CD3-5	0.44h	more for bad seeing completed
Bragaglia	1452631954680310 144	PEPSI BINO	PFU CD3-5	0.86h	more for bad seeing completed
Rainer	KPS-1	PEPSI BINO	PFU CD1-4	1.3h	SN/=62 on CD4, we need another exposure on this

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/10nSKzDX_i5p-_AwueiJGiD3UAOOEN2YB/view?usp=sharing

Further details in the log by LBTO at this link:

<https://drive.google.com/file/d/1WJxlBvjQ2qo3uycSdFmKQxgs0lzhb-MF/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1n3ExX5EsxkYeaNpha91x3ipjSFX81RWZ/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/14lvzAj4bVltUjAUSTqM0bPF6d4KFcNxY/view?usp=sharing>

INAF queue observing, 2025 Dec 14 - Dec 15

Observer: Silvia Tosi, Ester Marini

Support: Jon Rees

Telescope Operator: Steve Allanson

Instrument: PEPSI/LUCI

Summary

These observations have been performed in C-19 mode by Silvia Tosi and Ester Marini At sunset the sky is a bit cirrus, we open and start with PEPSI.

. Clouds during all night, 4.5h lost for bad weather. Some targets observed with LUCI and PEPSI increasing the exposure time.

Night duration (12 degree - twilight) 1:15 - 13:15 UT = **12h 0m**

Observing time: h min (%)*

Weather time loss: h min (%)*

Technical time loss: h min (%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime/Time_to_t	Notes
CALIB		PEPSI BINO			All config
Leitinger	KIC6183076	PEPSI BINO	PFU CD3-5	0.35hx2	+10min due to clouds. SNR 177 on red and 113 in blue completed
Leitinger	KIC10398120	PEPSI BINO	PFU CD3-5	0.04hx2	+1min due to clouds. SNR 159 in red and 120 in blue completed
Leitinger	KIC8110538	PEPSI BINO	PFU CD3-5	0.25hx2	+5min due to clouds. SNR 138 in red and 91 in blue
Leitinger	KIC9453022	PEPSI BINO	PFU CD3-5	0.36hx2	+5min due to clouds. SNR 103 in red and 88 in blue
Marziani	WINGS J223540.81+012905 .8	LUCI Bino	KG210 0.75slit	0.53x2	exposure time doubled due to the presence of a lot of clouds. FWHM 0.7"
Marziani	Telluric Hip 116886	LUCI Bino	KG210 0.75slit	0.03x2	exposure time doubled due to the presence of a lot of clouds. FWHM 0.7"
Marziani	WINGS J012507.64+084157 .2	LUCI Bino	KG210 0.75slit		exposure time doubled due to the presence of a lot of clouds. FWHM 0.8"

Marziani	Telluric Hip 116886	LUCI Bino	KG210 0.75slit	0.03x2	exposure time doubled due to the presence of a lot of clouds. FWHM 1"
Giannini	23bri	LUCI Bino imaging	N3.75J	0.125x2	FWHM 1.1"
Rainer	KPS-1	PEPSI bino	D200/CD1-4	2.77hr	increased exp time due to very thick clouds, S/N~170 CD1-CD4 completed

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/16R2ZUDBapAkfsC1cDIiVX-e2P7P5Sn5F/view?usp=sharing>

Further details in the log by LBTO at this link:

<https://drive.google.com/file/d/1Ydo0QNIIdojmP3Wk1gIIxvIWyyzSgWblZ/view?usp=sharing>

Summary of LUCI calibration files:

<https://drive.google.com/file/d/1eNPrzsPPNoQ6nJXaBraUbRANoVUDILoh/view?usp=sharing>

Summary of LUCI science files:

<https://drive.google.com/file/d/1xjis9a2WTFnS-qIR9Xe1Oh4sMHo1IDyh/view?usp=sharing>

INAF queue observing, 2025 Dec 15 - Dec 16

Observer: Andrea Rossi, Ester Marini

Support: Jason Chu

Telescope Operator: Steve Allanson

Instrument: LBC/SHARKs

Summary

These observations have been performed in C-19 mode by Andrea Rossi and Ester Marini .

At sunset the sky is clear. We start with LBC and then switch to SHARK-VIS/NIR at 05:05UT. We have to stop the observations and close at 07:18UT due to a glycol lead on the DX ASM. Steve calls the night at 12:05UT.

Night duration (12 degree - twilight) 1:15 - 13:15 UT = **12h 0m**

Observing time: 7h 13min (%)*

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

Technical time loss: 4h 47min (%)*

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB	skyflats	LBC	r,z		PA0,180 DONE

CALIB	skyflats	LBC	g,lbes		g needs PA 180
Cusano	halo1	LBC	BV	0.9h+0.9h	BV7+BV9 script FWHM~0.7"
Cusano	halo1	LBC	BI	0.7+0.6h	BI8+ metà BI10 FWHM~0.7"
Calib	Gamma_Or i	SHARK-VI S			for setup
Garufi	HD34700	SHARK-VI S+NIR	R-bessel+BB_ H		stopped due to glycole leak on DX ASM. SNIR took 77% of scientific data, SVIS not sufficient data. PSF reference is missing, too. See log for details

Further details in the log by LBT-Italia at this link:

<https://drive.google.com/file/d/1J9ASz4foTMXOwuZteia4zipApmgEhZXc/view?usp=sharing>

Further details in the log by LBTO at this link:

<https://drive.google.com/file/d/1LI3s5hcZoq2sU-OsOma7eJ-muUfCtDMS/view?usp=sharing>

Summary of LBC calibration files:

https://drive.google.com/file/d/14xEuqj4j0Q-rGfJB_3VkB3cm6qN7EdJ7/view?usp=sharing

Summary of LBC science files:

<https://drive.google.com/file/d/1BzNzYI1BWYDhNTBBn7gaFZB36sNzpSm5/view?usp=sharing>

INAF queue observing, 2025 Dec 16 - Dec 17

Observer: Silvia Tosi, Felice Cusano

Support: Jason Chu

Telescope Operator: Josh Williams

Instrument: LBC

Summary

These observations have been performed in C-19 mode by Silvia Tosi and Felice Cusano .

At sunset the sky is clear. We start with LBC. Some technical issues, but it was a good night with subarcsec seeing

Night duration (12 degree - twilight) 1:15 - 13:15 UT = **12h 0m**

Observing time: 11h 00min (%)*

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

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

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

Data Summary

Project_RUN	Objects	Instrument	Configuration	ExpTime /Time_tot	Notes
CALIB	skyflats	LBC	B-Bessel, r-Sloan		PA0,180 DONE
CALIB	skyflats	LBC	U-spec, V-Bessel		PA0
Palazzi	SN2024rmj	LBC	ugriz	0.15+0.15h	seeing 0.9"-1"
Cusano	halo1	LBC	BI	0.84h+0.84	BV_10 and BV_12. seeing ~1". To check images 023824-0242 48
Cusano	halo1	LBC	BV	1.28h+1.28h	BV_11 for two times because of elongation and 3 images of BV_13. seeing ~1"
Palazzi	SN2024adhq	LBC	ugriz	0.15+0.15h	seeing 0.9"-1"
D'Onofrio	NGC2903	LBC	U_spec, z_sloan	1.7h+1.7h	Ob1 started at low airmass, then repeated after ob3
Palazzi	SN2025wny	LBC	ugriz	0.15+0.15h	seeing 0.9"-1"
Giunta	2023XM15	LBC	griz	0.2h+0.2h	good seeing
Maiorano	/GRB251129 A	grz	0.4h+0.4h		finished before -12° twilight

Further details in the log by LBT-Italia at this link:

https://drive.google.com/file/d/1u6PI1zfif3rhMg_9RCH_INdWTt8wU2wR/view?usp=sharing

Further details in the log by LBTO at this link:

https://drive.google.com/file/d/1nID4HjL_kj44mWECb_kqVFUX2tdzNaMw/view?usp=sharing

Summary of LBC science files:

https://drive.google.com/file/d/13y5_E3kQ-lbiZa6luhSP6q-NSqi8XtXN/view?usp=sharing