

# 60" Schedule for January 2020 (as of 03 Jan 2020)

January February March April Programs PDF Schedules

DATE	MOON	INST	OBSERVER	PI AND PROGRAM	MMT	
Jan 1 Wed	0.41	TRES	GE	TRES Combo	---	NEW YEAR's DAY
Jan 2 Thu	0.50	"	"	"	MC/MM	
Jan 3 Fri	0.60	"	"	"	"	
Jan 4 Sat	0.69	"	"	"	"	
Jan 5 Sun	0.78	"	PB	"	"	
Jan 6 Mon	0.86	"	"	"	"	
Jan 7 Tue	0.92	"	GE	"	"	
Jan 8 Wed	0.97	"	"	"	---	
Jan 9 Thu	1.00	"	"	"	---	
Jan 10 Fri	1.00	"	Yahalomi	"	---	
Jan 11 Sat	0.97	"	"	"	---	
Jan 12 Sun	0.91	"	"	"	---	
Jan 13 Mon	0.84	"	"	"	---	
Jan 14 Tue	0.74	"	"	"	---	
Jan 15 Wed	0.63	"	PB	"	MC/MM	
Jan 16 Thu	0.52	"	"	"	"	
Jan 17 Fri	0.41	FAST	Hyman	FAST Combo	MC/BI	
Jan 18 Sat	0.30	"	"	"	"	
Jan 19 Sun	0.21	"	"	"	"	
Jan 20 Mon	0.13	"	"	"	"	MLK DAY
Jan 21 Tue	0.07	TRES	GE	TRES Combo	"	
Jan 22 Wed	0.03	"	"	"	---	
Jan 23 Thu	0.00	"	"	"	---	
Jan 24 Fri	0.00	"	"	"	---	
Jan 25 Sat	0.02	"	PB	"	---	
Jan 26 Sun	0.05	"	"	"	MC/BI	
Jan 27 Mon	0.10	"	GE	"	"	
Jan 28 Tue	0.17	"	"	"	"	
Jan 29 Wed	0.24	"	"	"	MC/HS	
Jan 30 Thu	0.33	"	PB	"	---	
Jan 31 Fri	0.42	"	"	"	---	

Remote Observers: MC: Mike Calkins, GE: Gil Esquerdo, PB: Perry Berlind

\*\* MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT

\*\*\*\* DATE IS STANDARD TIME AT START OF NIGHT

JAN **FAST Combo (program & effective nights):** (4 nights)

Brown 230 (HVS/ELM) 2 nights, Kenyon 12 (Symbiotic) 0.5 night,  
Gomez 233 (FLEET) 1 night, Falco 231 (BH/NS binaries) 1 night,  
Falco 220 (ASAS-SN) 0.5 night.

**NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.**

**TRES Combo** for trimester:

Latham 218 (Spec TESS) 50 nights, Zhou 212 (Nep & Jup) 12 nights,  
Medina 211 (Flares) 5 nights, Quinn 199 (Giant planets) 3 nights, Irwin  
183 (MEarth follow-up) 2 nights, Carmichael 213 (Brown dwarfs TESS)

4.5 nights, Winters 206 (HOT Jupiters) 6 nights, Rodriguez 220 (young Jupiters) 4 nights, Douglas 209 (Companions) 3 nights, Torres 6 (Pleiades survey) 6.5 nights, Torres 15 (Eclipsing binaries) 6 nights.

# 60" Schedule for February 2020 (as of 03 Jan 2020)

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DATE	MOON	INST	OBSERVER	PI AND PROGRAM	MMT	
Feb 1 Sat	0.51	TRES	GE	TRES Combo	----	
Feb 2 Sun	0.61	"	"	"	----	
Feb 3 Mon	0.71	"	"	"	----	
Feb 4 Tue	0.80	"	PB	"	----	
Feb 5 Wed	0.88	"	"	"	----	
Feb 6 Thu	0.94	"	GE	"	MC/HC	
Feb 7 Fri	0.98	"	"	"	"	
Feb 8 Sat	1.00	"	"	"	"	
Feb 9 Sun	0.98	"	"	"	"	
Feb 10 Mon	0.94	"	PB	"	"	
Feb 11 Tue	0.87	"	"	"	"	
Feb 12 Wed	0.78	"	GE	"	"	
Feb 13 Thu	0.67	"	"	"	----	
Feb 14 Fri	0.56	"	"	"	----	
Feb 15 Sat	0.45	"	"	"	----	
Feb 16 Sun	0.35	"	MC	"	----	
Feb 17 Mon	0.25	"	"	"	----	PRESIDENT'S DAY
Feb 18 Tue	0.17	"	"	"	----	
Feb 19 Wed	0.10	"	GE	"	----	
Feb 20 Thu	0.05	"	"	"	----	
Feb 21 Fri	0.02	"	"	"	----	
Feb 22 Sat	0.00	"	PB	"	----	
Feb 23 Sun	0.01	"	"	"	----	
Feb 24 Mon	0.03	FAST	Brown	FAST Combo	----	
Feb 25 Tue	0.06	"	"	"	----	
Feb 26 Wed	0.11	"	"	"	----	
Feb 27 Thu	0.18	"	"	"	----	
Feb 28 Fri	0.26	TRES	MC	TRES Combo	----	
Feb 29 Sat	0.34	"	"	"	----	

Remote Observers: MC: Mike Calkins, GE: Gil Esquerdo, PB: Perry Berlind

\*\* MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT

\*\*\*\* DATE IS STANDARD TIME AT START OF NIGHT

**FEB FAST Combo (program & effective nights):** (4 nights)

Brown 230 (HVS/ELM) 2 nights, Kenyon 12 (Symbiotic) 0.5 night,  
Gomez 233 (FLEET) 1 night, Falco 231 (BH/NS binaries) 1 night,  
Falco 220 (ASAS-SN) 0.5 night.

**NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.**

**TRES Combo** for trimester:

Latham 218 (Spec TESS) 50 nights, Zhou 212 (Nep & Jup) 12 nights,  
Medina 211 (Flares) 5 nights, Quinn 199 (Giant planets) 3 nights, Irwin  
183 (MEarth follow-up) 2 nights, Carmichael 213 (Brown dwarfs TESS)  
4.5 nights, Winters 206 (HOT Jupiters) 6 nights, Rodriguez 220 (young  
Jupiters) 4 nights, Douglas 209 (Companions) 3 nights, Torres 6  
(Pleiades survey) 6.5 nights, Torres 15 (Eclipsing binaries) 6 nights.



# 60" Schedule for March 2020 (as of 03 Jan 2020)

January February March April Programs PDF Schedules

DATE	MOON	INST	OBSERVER	PI AND PROGRAM	MMT
Mar 1 Sun	0.44	TRES	GE	TRES Combo	----
Mar 2 Mon	0.54	"	"	"	----
Mar 3 Tue	0.64	"	"	"	----
Mar 4 Wed	0.74	"	"	"	----
Mar 5 Thu	0.83	"	PB	"	----
Mar 6 Fri	0.91	"	"	"	----
Mar 7 Sat	0.97	"	GE	"	----
Mar 8 Sun	1.00	"	"	"	----
Mar 9 Mon	0.99	"	"	"	----
Mar 10 Tue	0.96	"	"	"	----
Mar 11 Wed	0.90	"	Yahalomi	"	----
Mar 12 Thu	0.81	"	"	"	----
Mar 13 Fri	0.72	"	"	"	MC/BI
Mar 14 Sat	0.61	"	"	"	"
Mar 15 Sun	0.50	"	"	"	"
Mar 16 Mon	0.40	"	"	"	"
Mar 17 Tue	0.30	FAST	Berger	Berger Astro 100	"
Mar 18 Wed	0.22	"	"	"	----
Mar 19 Thu	0.14	"	"	"	----
Mar 20 Fri	0.09	FAST	Challis	FAST Combo	----
Mar 21 Sat	0.04	"	"	"	----
Mar 22 Sun	0.01	"	"	"	----
Mar 23 Mon	0.00	"	"	"	----
Mar 24 Tue	0.01	TRES	PB	TRES Combo	----
Mar 25 Wed	0.03	"	"	"	MC/BI
Mar 26 Thu	0.07	"	GE	"	"
Mar 27 Fri	0.13	"	"	"	"
Mar 28 Sat	0.20	"	"	"	"
Mar 29 Sun	0.28	"	"	"	"
Mar 30 Mon	0.38	"	PB	"	"
Mar 31 Tue	0.48	"	"	"	"

Remote Observers: MC: Mike Calkins, GE: Gil Esquerdo, PB: Perry Berlind

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\*\*\*\* DATE IS STANDARD TIME AT START OF NIGHT

MAR **FAST Combo (program & effective nights):** (4 nights)

Brown 230 (HVS/ELM) 1 night, Kenyon 12 (Symbiotic) 0.5 night,  
Gomez 233 (FLEET) 1 night, Falco 231 (BH/NS binaries) 1 night,  
Falco 220 (ASAS-SN) 0.5 night.

**NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.**

**TRES Combo** for trimester:

Latham 218 (Spec TESS) 50 nights, Zhou 212 (Nep & Jup) 12 nights,  
Medina 211 (Flares) 5 nights, Quinn 199 (Giant planets) 3 nights, Irwin  
183 (MEarth follow-up) 2 nights, Carmichael 213 (Brown dwarfs TESS)  
4.5 nights, Winters 206 (HOT Jupiters) 6 nights, Rodriguez 220 (young

Jupiters) 4 nights, Douglas 209 (Companions) 3 nights, Torres 6  
(Pleiades survey) 6.5 nights, Torres 15 (Eclipsing binaries) 6 nights.

# 60" Schedule for April 2020 (as of 03 Jan 2020)

January February March April Programs PDF Schedules

DATE	MOON	INST	OBSERVER	PI AND PROGRAM	MMT
Apr 1 Wed	0.58	TRES	GE	TRES Combo	----
Apr 2 Thu	0.69	"	"	"	----
Apr 3 Fri	0.79	"	"	"	----
Apr 4 Sat	0.88	"	MC	"	----
Apr 5 Sun	0.95	"	"	"	----
Apr 6 Mon	0.99	"	"	"	----
Apr 7 Tue	1.00	"	PB	"	----
Apr 8 Wed	0.98	"	"	"	----
Apr 9 Thu	0.93	"	GE	"	----
Apr 10 Fri	0.85	"	"	"	MC/HC
Apr 11 Sat	0.76	"	"	"	"
Apr 12 Sun	0.66	"	PB	"	"
Apr 13 Mon	0.56	"	"	"	MC/MC
Apr 14 Tue	0.46	"	GE	"	MC/HC
Apr 15 Wed	0.36	"	"	"	----
Apr 16 Thu	0.27	"	"	"	----
Apr 17 Fri	0.19	FAST	Gomez	FAST Combo	----
Apr 18 Sat	0.13	"	"	"	----
Apr 19 Sun	0.07	"	"	"	----
Apr 20 Mon	0.03	"	MC	"	----
Apr 21 Tue	0.01	TRES	"	TRES Combo	----
Apr 22 Wed	0.00	"	"	"	----
Apr 23 Thu	0.01	"	GE	"	----
Apr 24 Fri	0.04	"	"	"	----
Apr 25 Sat	0.09	"	"	"	----
Apr 26 Sun	0.15	"	MC	"	----
Apr 27 Mon	0.23	"	"	"	----
Apr 28 Tue	0.33	"	"	"	----
Apr 29 Wed	0.43	"	PB	"	----
Apr 30 Thu	0.54	"	"	"	----

Remote Observers: MC: Mike Calkins, GE: Gil Esquerdo, PB: Perry Berlind

\*\* MOON IS FRACTIONAL MOON ILLUMINATION AT MIDDLE OF NIGHT

\*\*\*\* DATE IS STANDARD TIME AT START OF NIGHT

APR **FAST Combo (program & effective nights):** (5 nights)

Brown 230 (HVS/ELM) 1 night, Kenyon 12 (Symbiotic) 0.5 night,  
Gomez 233 (FLEET) 1 night, Falco 231 (BH/NS binaries) 1 night,  
Falco 220 (ASAS-SN) 0.5 night.

**NOTE: Projects are listed in order of decreasing priority per their TAC grades. Rare TOO targets (GRBs, XRNs) have highest priority.**

**TRES Combo** for trimester:

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183 (MEarth follow-up) 2 nights, Carmichael 213 (Brown dwarfs TESS)  
4.5 nights, Winters 206 (HOT Jupiters) 6 nights, Rodriguez 220 (young

Jupiters) 4 nights, Douglas 209 (Companions) 3 nights, Torres 6 (Pleiades survey) 6.5 nights, Torres 15 (Eclipsing binaries) 6 nights.

[January](#) [February](#) [March](#) [April](#) [PDF](#)

## 60" Allocations January-April 2020

### FAST proposals

PI	Title	Dark	Gray	Bright
Warren Brown	HVS/ELM Survey South	6	0	0
Scott Kenyon	Optical Spectra of Symbiotic Stars	2	0	0
Sebastian Gomez	FLEET: Finding Luminous and Exotic Extragalactic Transients	3	0	0
Edo Berger	Astro100: Using the FLWO 1.5 m Telescope for Undergraduate Education	0	3	0
Emilio Falco	A First Search for Non-Interacting BH/NS Binaries	3	0	0
Emilio Falco	Spectroscopy of Transients from the All-Sky Automated Survey for SuperNovae	2	0	0

### TRES proposals

PI	Title	Dark	Gray	Bright
David W. Latham	Spectroscopic follow-up of TESS planet candidates	32	16	2
George Zhou	Neptunes and Jupiters around early-type stars	0	0	12
Amber Medina	Simultaneous Flare Observations and H $\alpha$ Emission of Rapidly Rotating Mid-to-Late M Dwarfs with TESS and TRES	0	0	5
Samuel Quinn	Giant Planets in Open Clusters	0	0	3
Jonathan Irwin	MEarth Spectroscopic Follow-up	0	2	0
Theron Carmichael	Brown dwarf candidate follow up from TESS Cycle 2	0	1	3.5
Jennifer Winters	Determining the Occurrence Rate of Hot Jupiters Orbiting the Nearby Mid-to-Late M Dwarfs with TRES	0	0	6
Joseph Rodriguez	Confirmation and Characterization of Dynamically Young Jupiters	0	0	4
Stephanie T. Douglas	The impact of companions on stellar rotational evolution	0	3	0



Guillermo Torres	Pleiades binary survey	0	0	6.5
Guillermo Torres	Eclipsing binaries	0	0	6