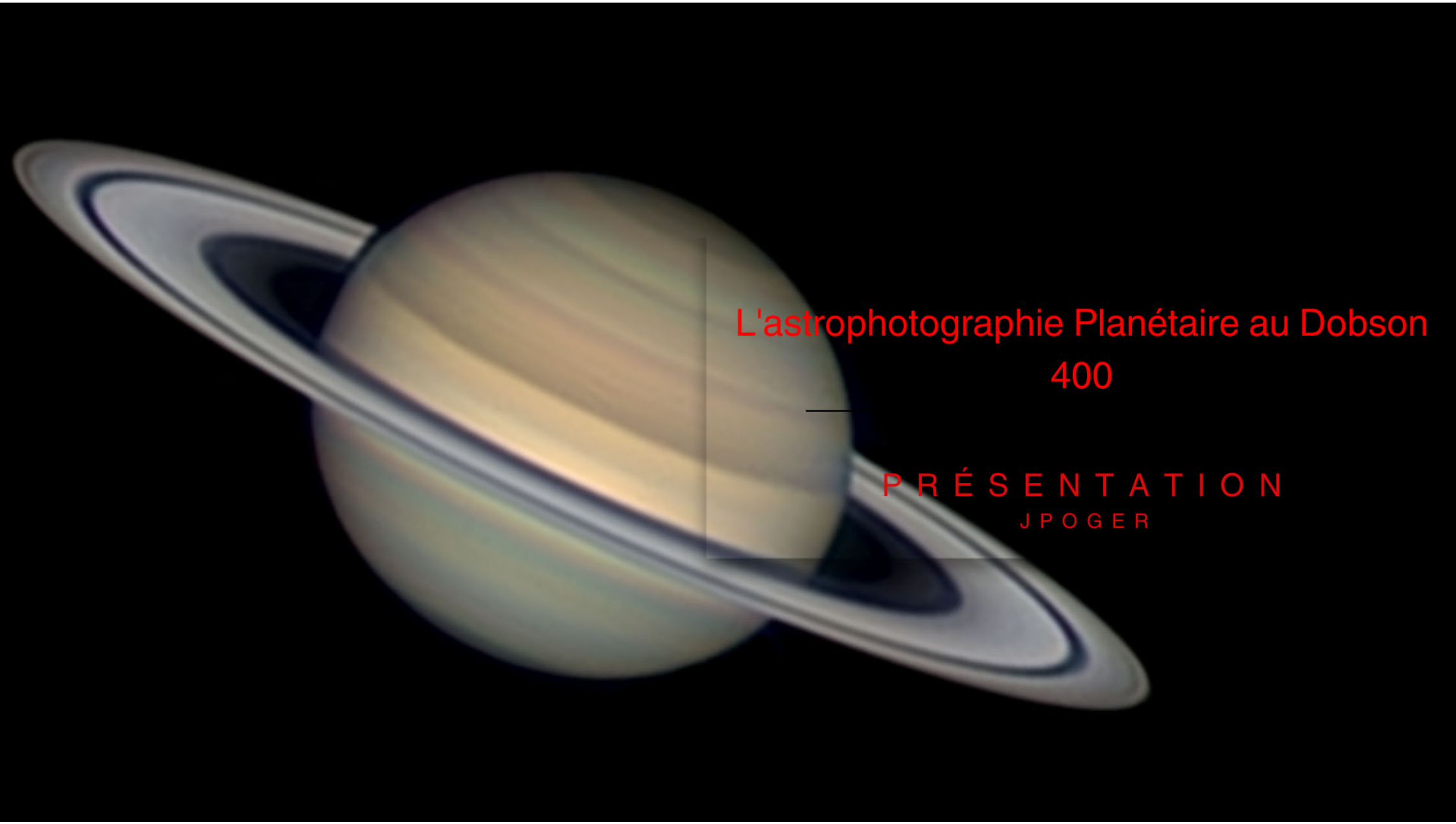


L'astrophotographie Planétaire au Dobson 400

PRÉSENTATION

JPOGER

Le SW 406mm

Formule Optique

Newton

Diamètre utile

406mm

Longueur focale

1800mm

Rapport F/D

4.4

Pouvoir séparateur

0.29 seconde d'arc

Les modifications du Dobson, pourquoi ?

EAF, équilibrage, collimation, remontage et démontage en toute simplicité."


Baader 2" Clicklock®
TELESCOPE
D=400mm F=1800mm
Coated Optics


Release
Baader ClickLock™
2"-1¼" Reducer
#2956214
Lock
Baader 2" Clicklock®


Baader 2"
EAF
Electronic Automatic Focuser
TELESCOPE
D=400mm F=1800mm
Coated Optics

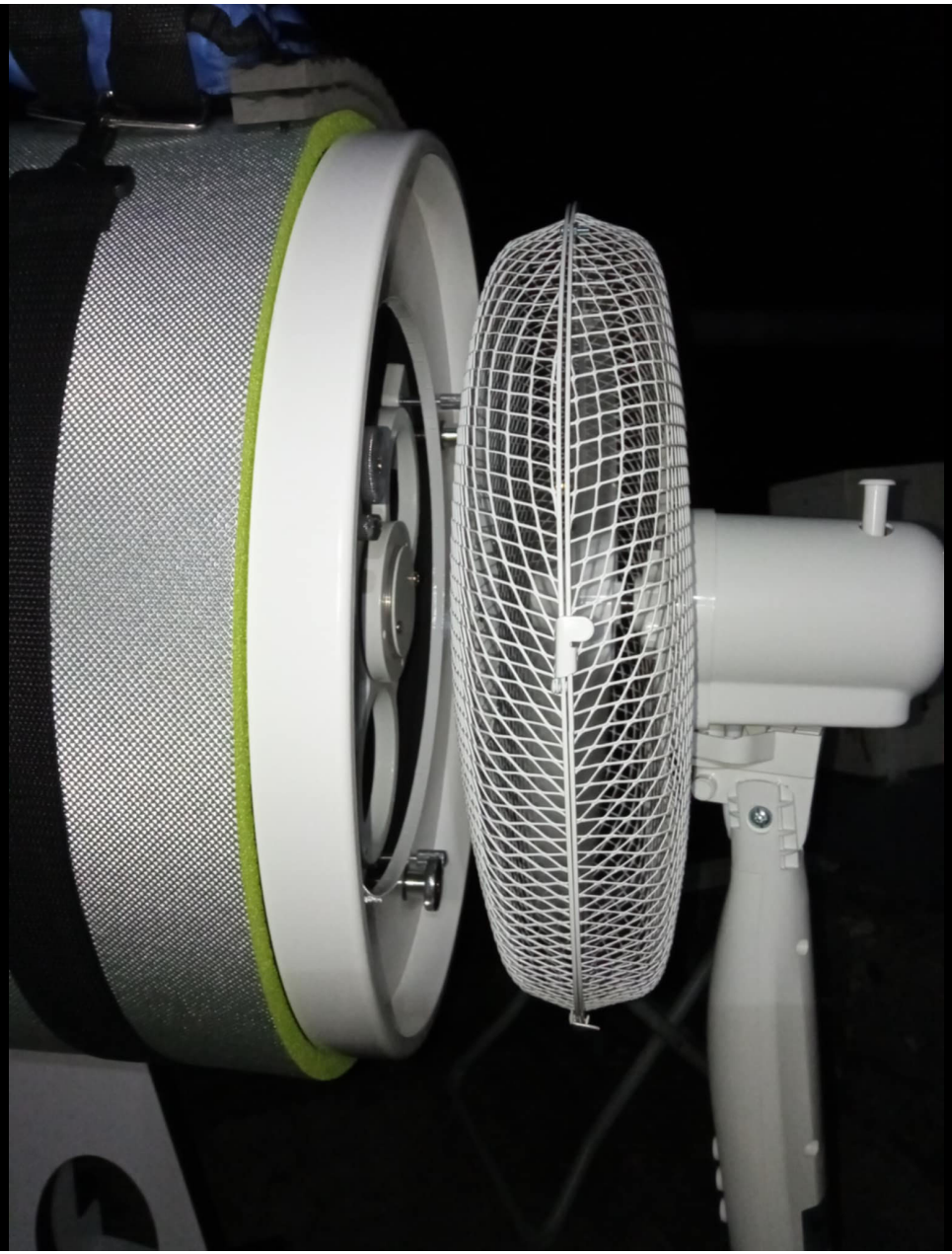

ZWO
EAF
release

Equilibrage

IMPORTANT POUR L'ÉQUILIBRE DES MOTEURS

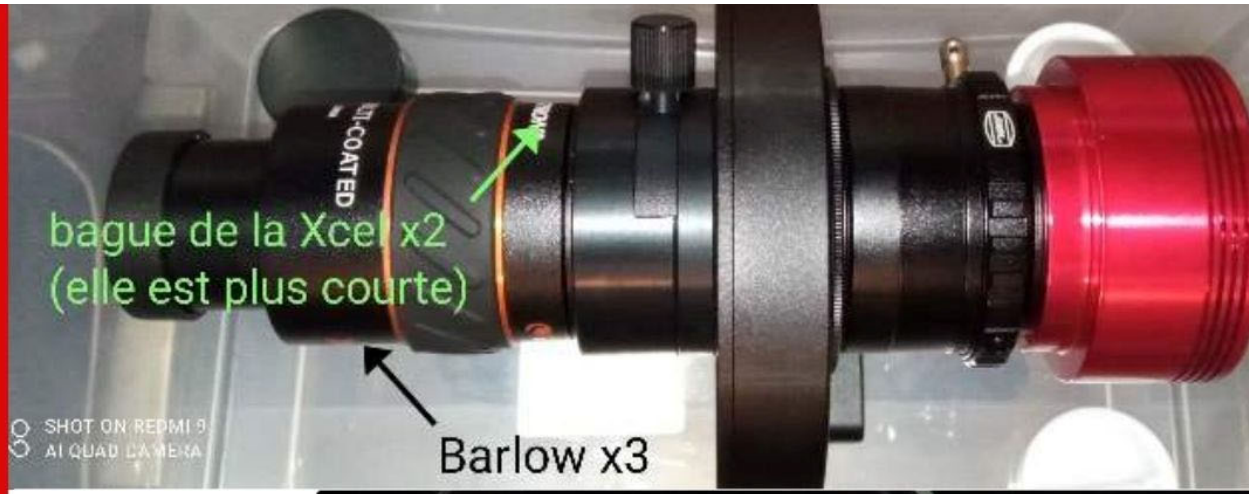
Montage et demontage

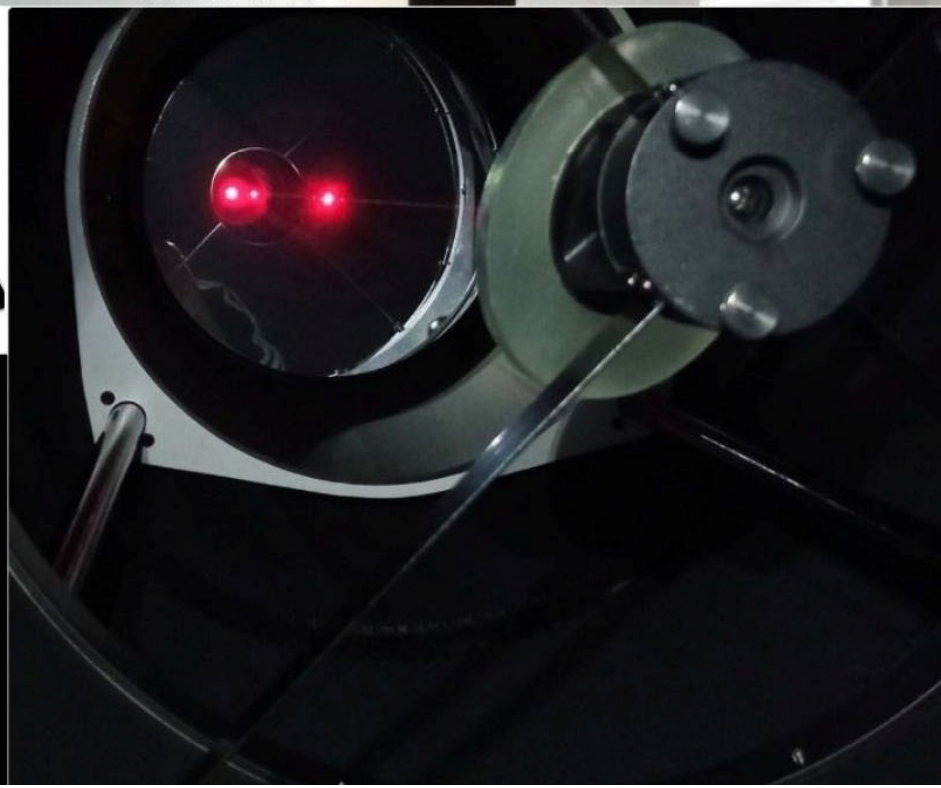
le montage et le demontage de la cage du secondaire sont primordiaux pour faciliter le transport et garantir une bonne tenue de la collimation !!!

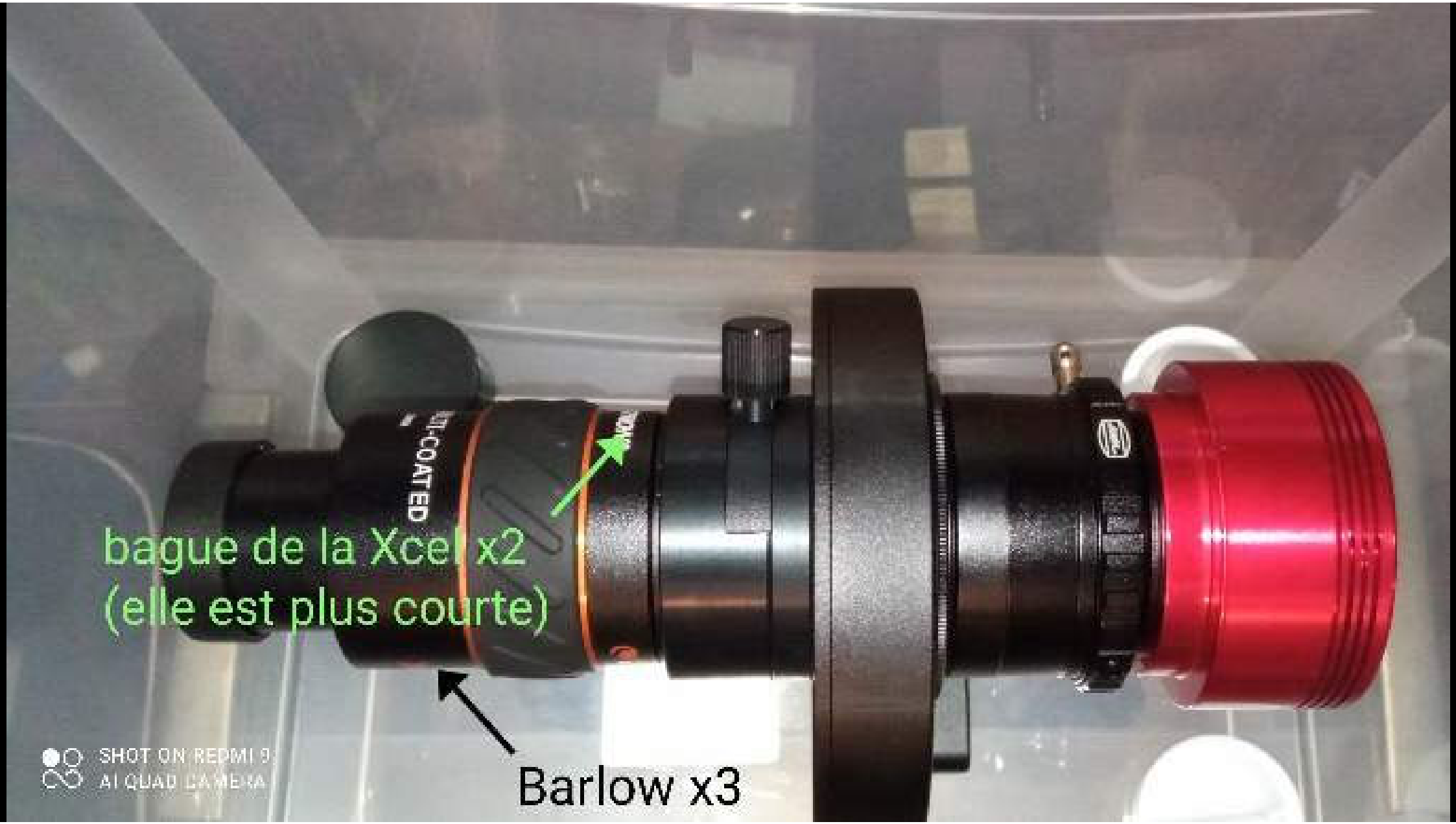


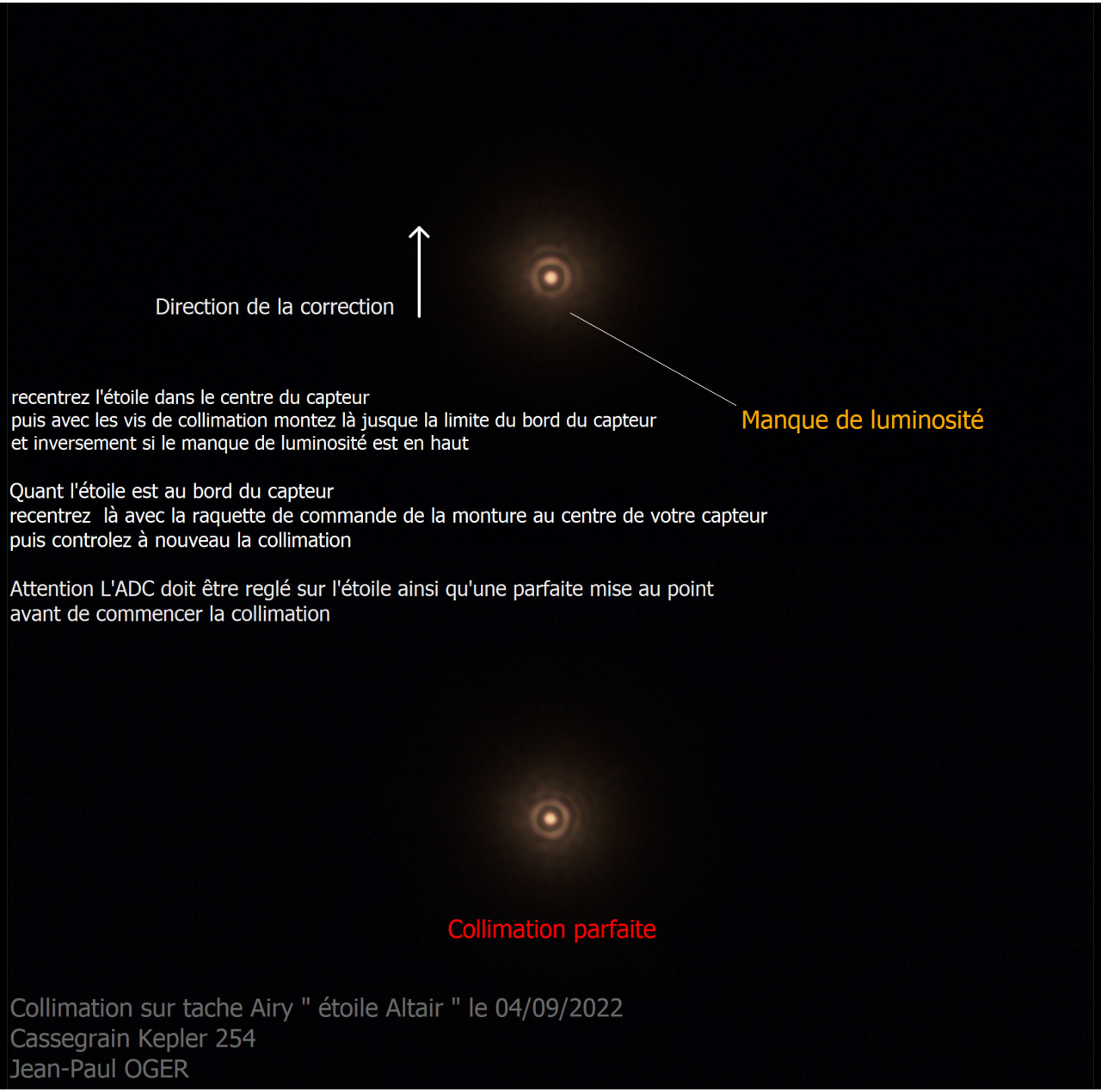
Collimation

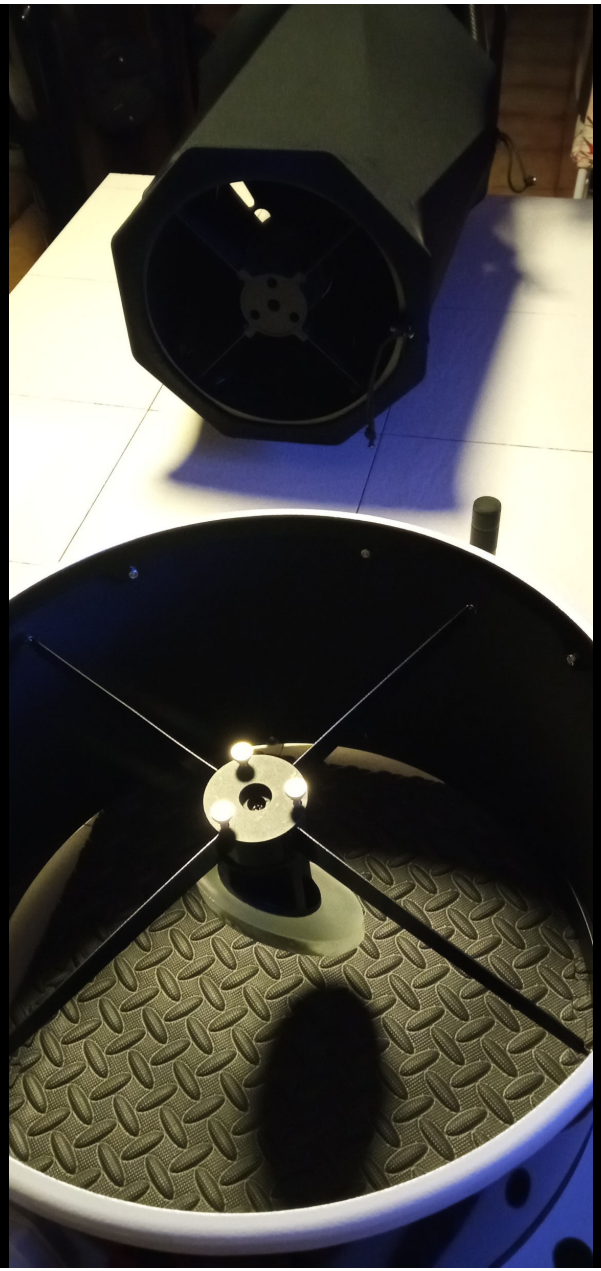
LASER DE COLLIMATION
REGLAGE DU SECONDAIRE ET DU PRIMAIRE
ASTUCE AVEC BARLOW CORRECTRICE APM





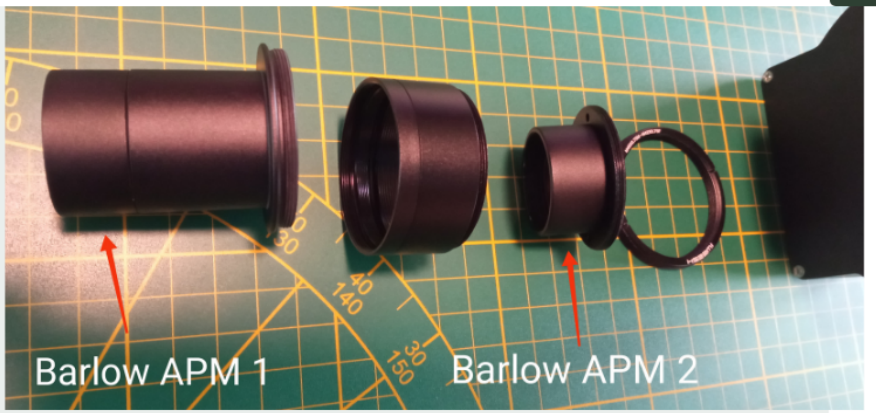

bague de la Xcel x2
(elle est plus courte)
Barlow x3
SHOT ON REDMI 9
AI QUAD CAMERA


Direction de la correction
Manque de luminosité
recentrez l'étoile dans le centre du capteur
puis avec les vis de collimation montez là jusque la limite du bord du capteur
et inversement si le manque de luminosité est en haut
Quant l'étoile est au bord du capteur
recentrez là avec la raquette de commande de la monture au centre de votre capteur
puis controlez à nouveau la collimation
Attention L'ADC doit être reglé sur l'étoile ainsi qu'une parfaite mise au point
avant de commencer la collimation
Collimation parfaite
Collimation sur tache Airy " étoile Altair " le 04/09/2022
Cassegrain Kepler 254
Jean-Paul OGER



LE TRAIN OPTIQUE OPTIMISÉ
À X5 (*8910MM DE FOCALE*) F/22

Double Barlow APM 2.7
COMACORRECTOR




M48×0.75
M42×0.75
5mm

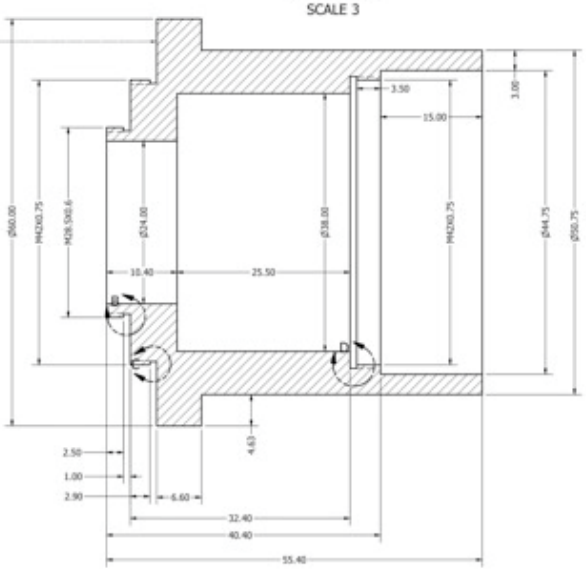

28mm
42mm
ZWO T2-1.25" Filter Adapter

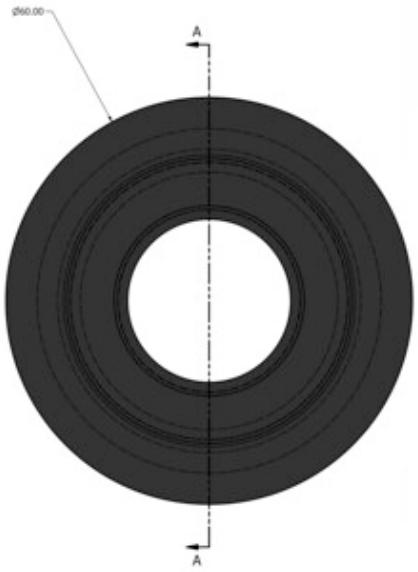
MATERIAL: ALLUMINUM 6061
TREATMENT: ANODIZATION FLAT BLACK

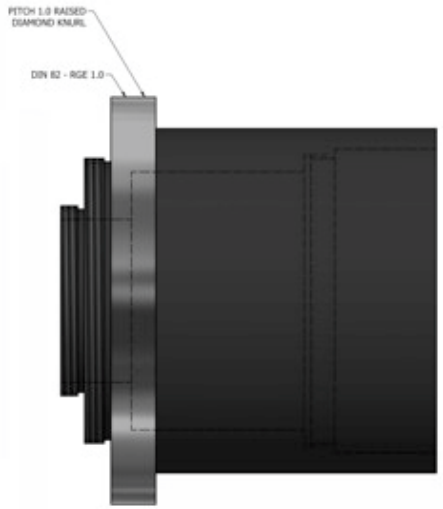
92.2 mm

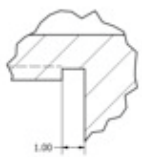
Focal Plane

SECTION A-A
SCALE 3







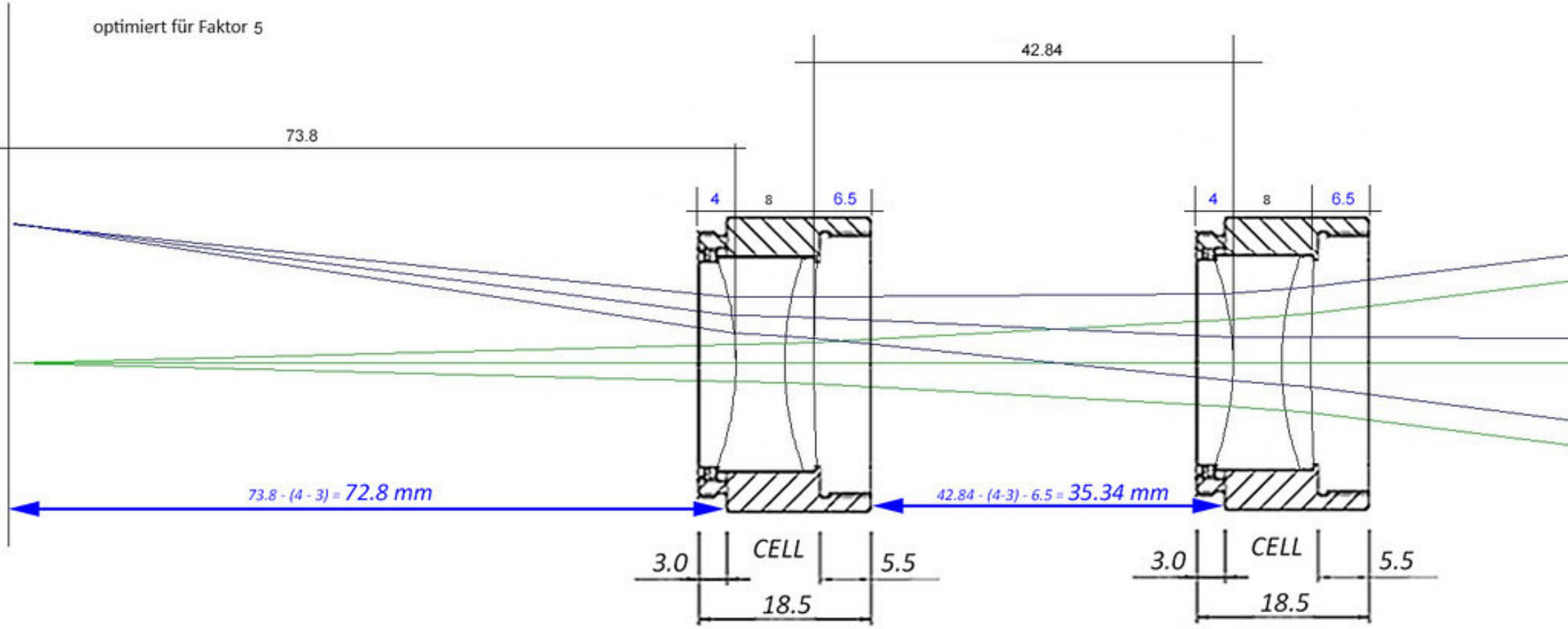


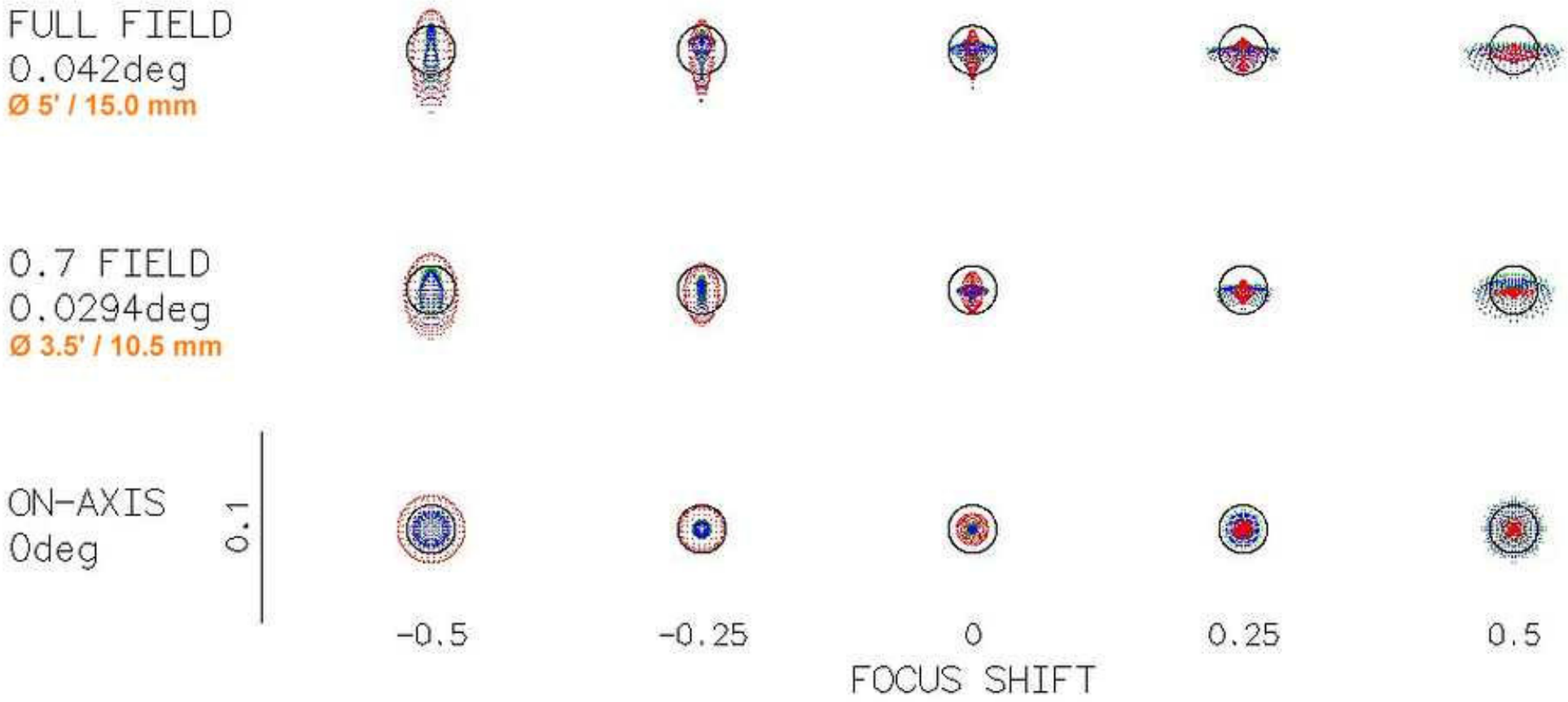
DETAIL B
SCALE 10:1

DETAIL C
SCALE 10 : 1

DETAIL D
SCALE 10 : 1

MATERIAL: Aluminum 6061	PRODUCTION	REV.	01	QS 220 2023	QUANTUM STAR
TOLERANCE: mm	TREATMENT: ANODIZATION	SHEET	OF		
SCALE: 0.1	UNIT: mm	FINISH: FLAT BLACK	1	1	PART NAME: BARLOW ADAPTER
	WELDING TYPE				
	TOTAL DIMENSION (mm)				
DRAWN: MELLORIE MATTEO	DATE: NOV 2023			PROJECT: Newton 21" F3.8	Singapore
REVIEW: LORENZO MARCO	DATE: NOV 2023				
APPROVED: LORENZO MARCO	DATE: NOV 2023				PAGE: 00


optimiert für Faktor 5
73.8
42.84
4
8
6.5
4
8
6.5
73.8 - (4 - 3) = 72.8 mm
42.84 - (4-3) - 6.5 = 35.34 mm
3.0
CELL
5.5
18.5
3.0
CELL
5.5
18.5



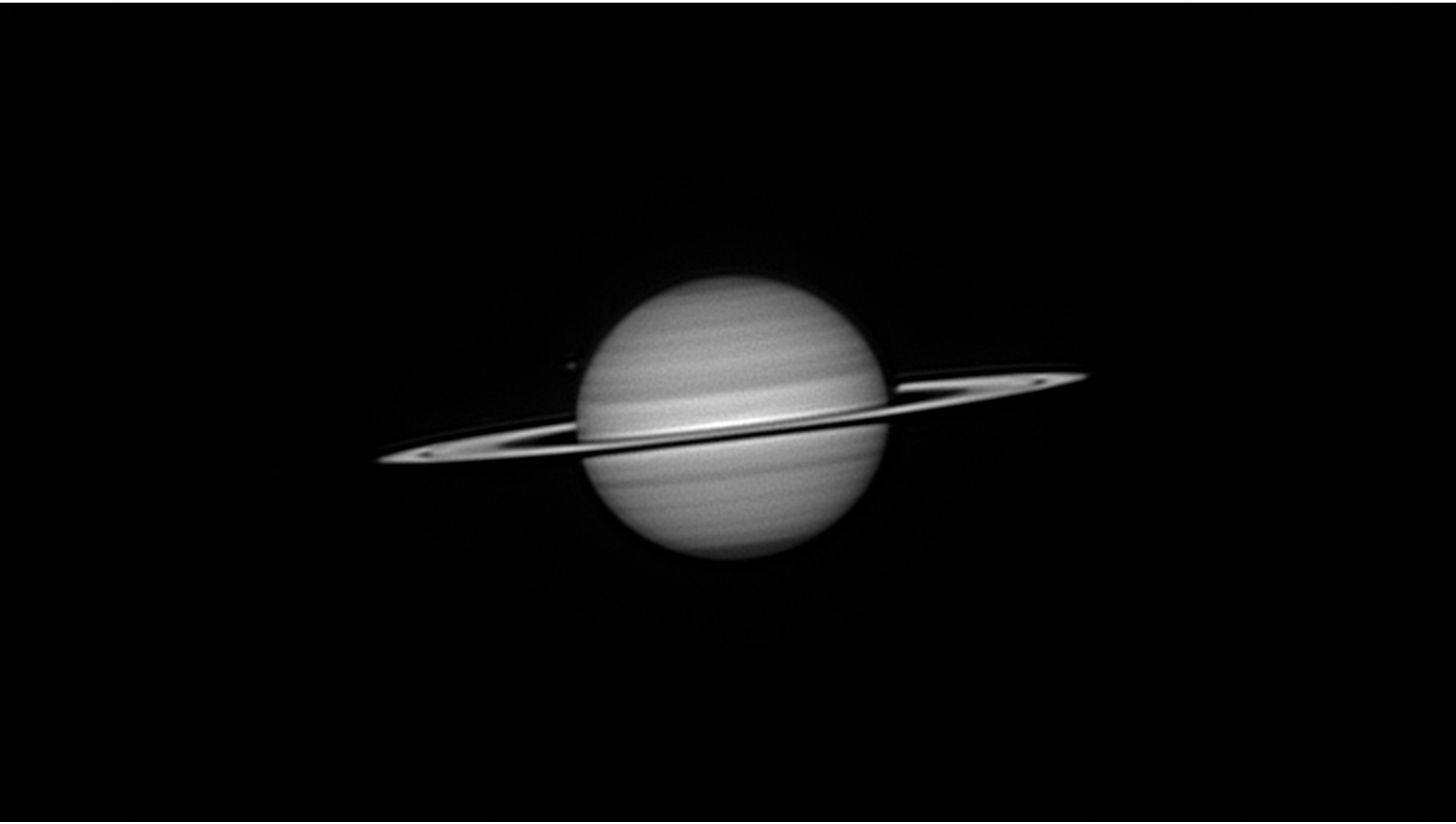
SPOT SIZE & FOCUS SHIFT : NAURIS 21" f/3.8 + two 2.7ED stack (5.0x → f/19)

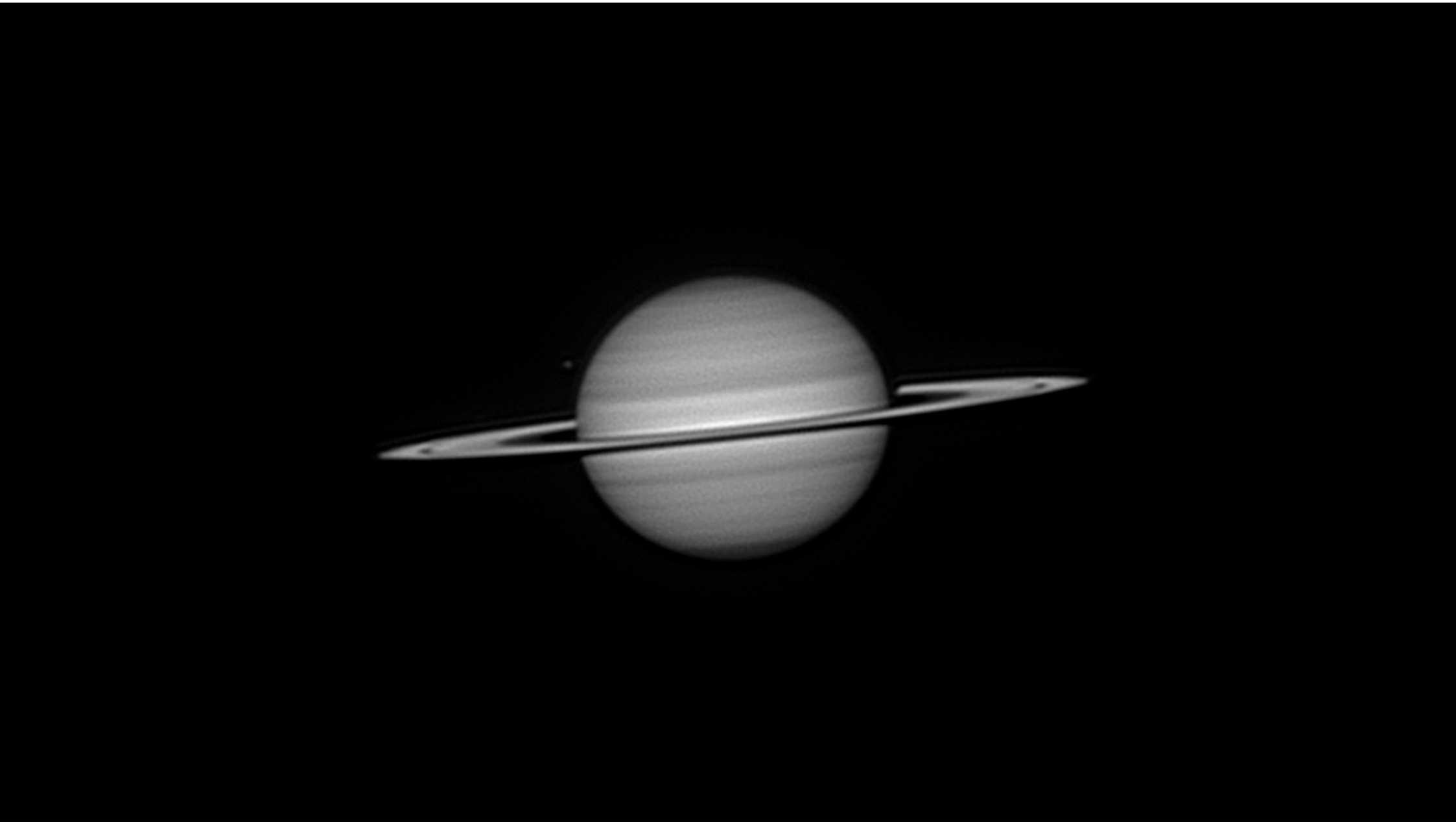
Units = mm / Wavelenghts = 486nm, 546nm, 656nm (Fraunhofer lines F, e, C)

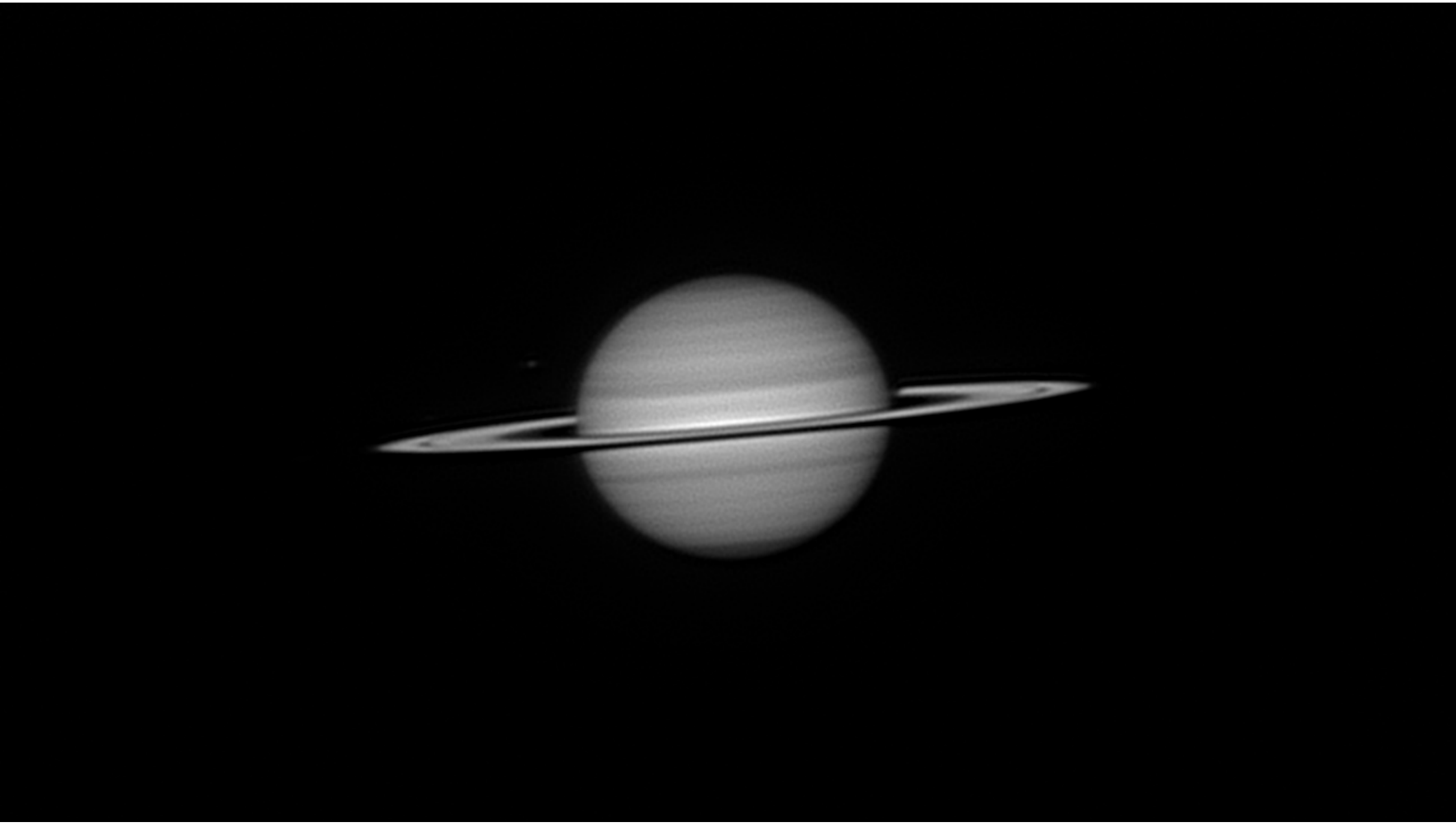

Baader 2" Clicklock
EAF

Saturne

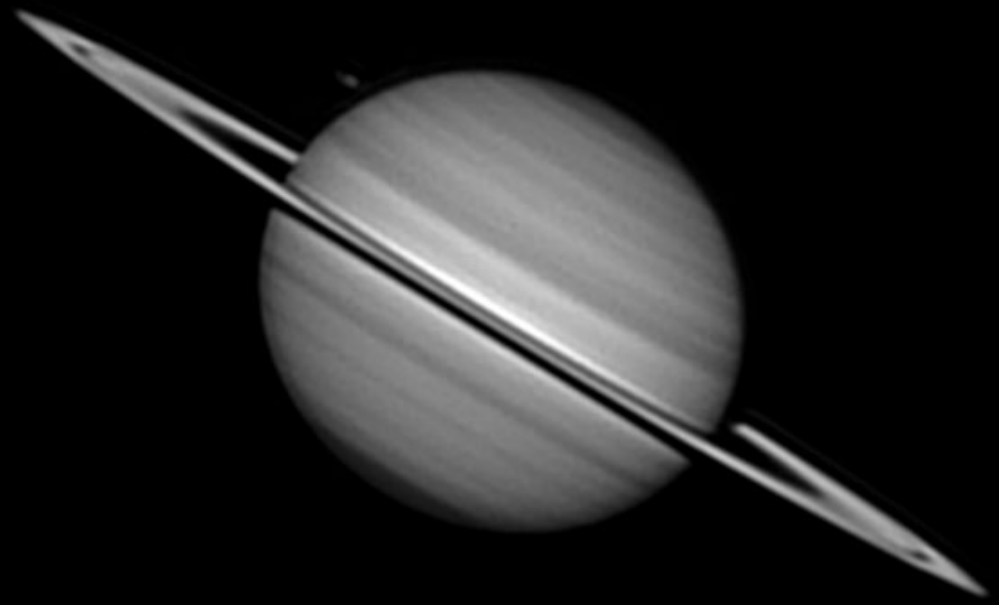
OPTIMISEZ LES PRISES DE VUE



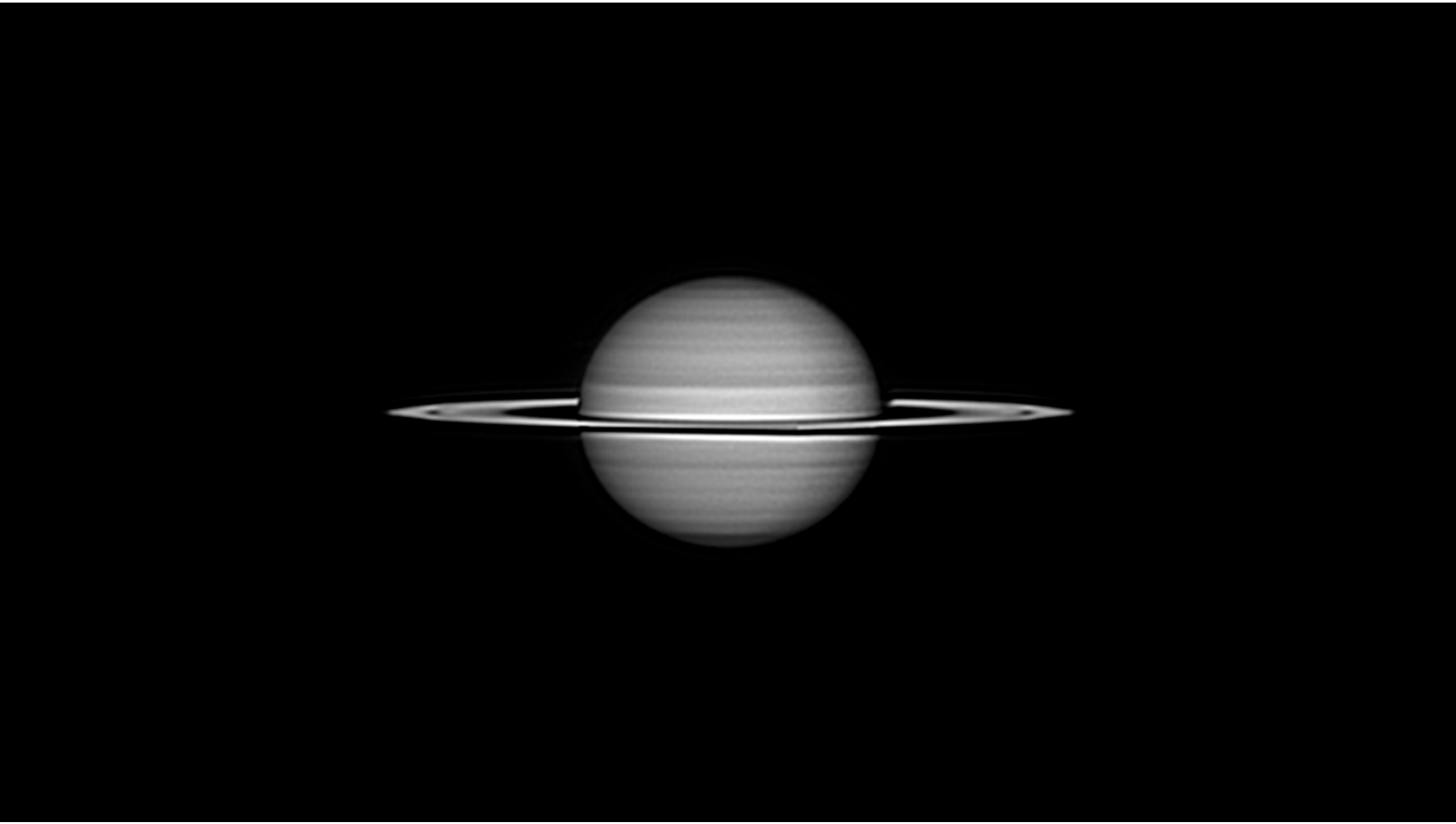


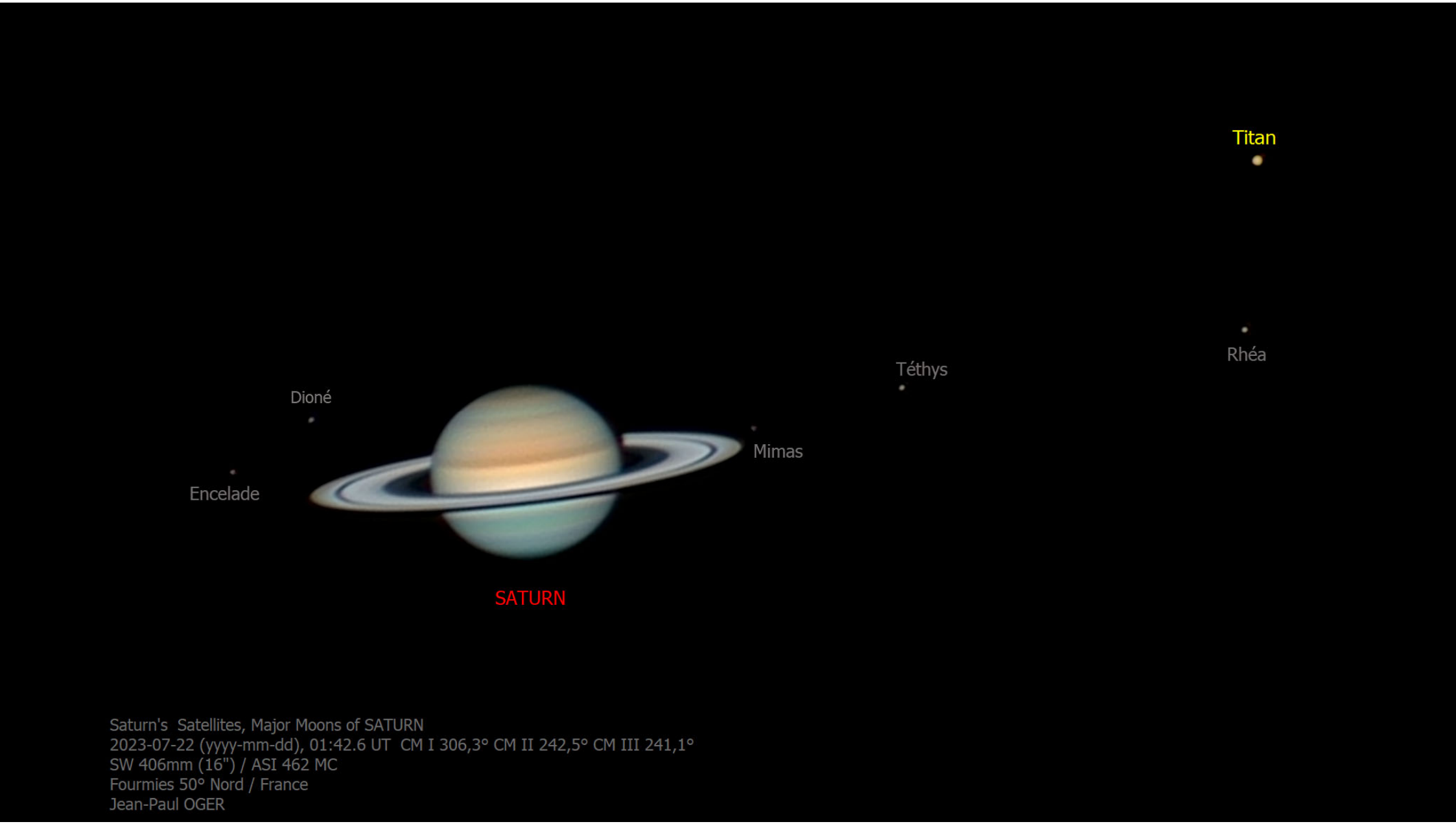


Saturn



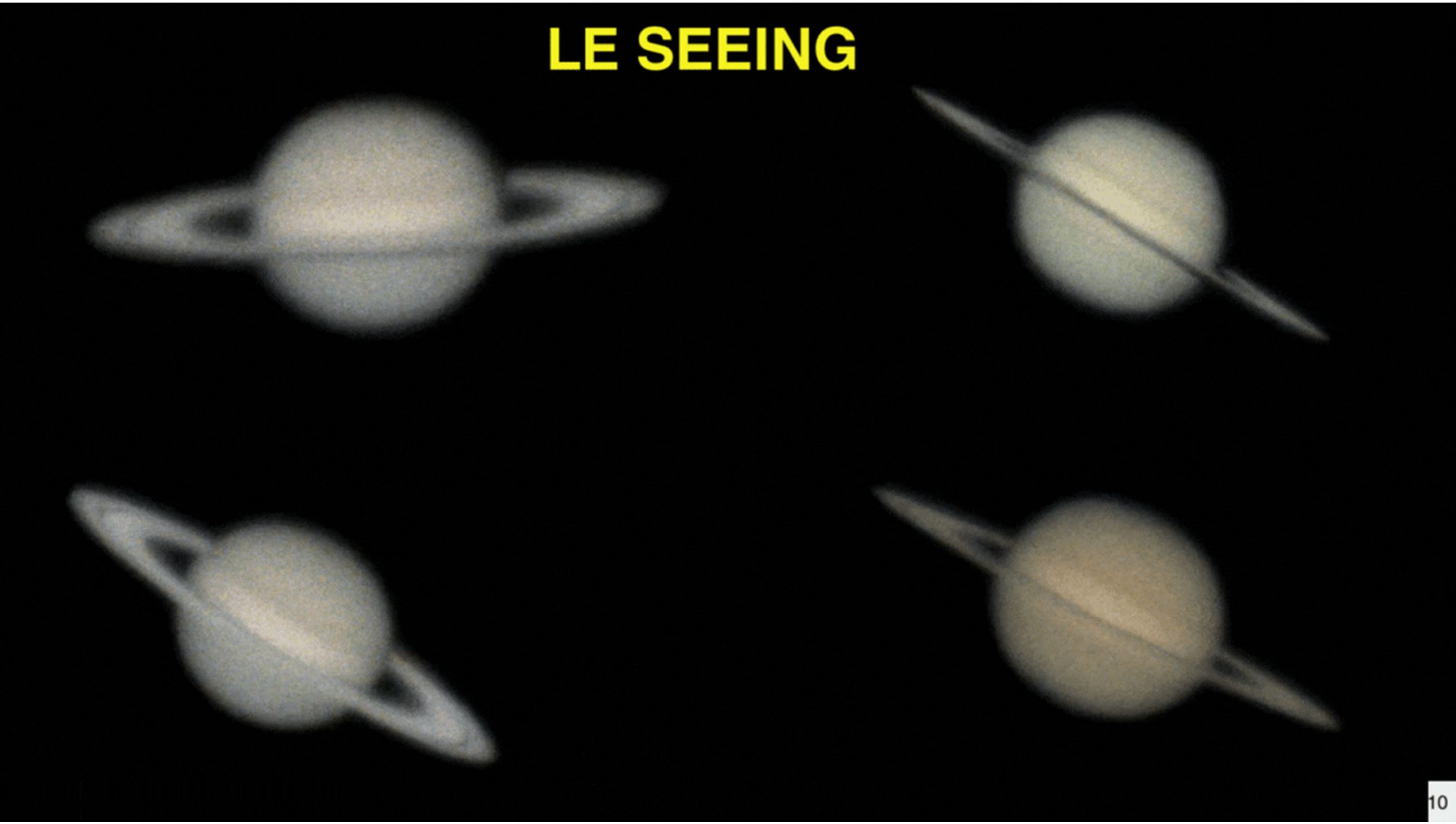
2024-08-10 (yyyy-mm-dd), 00:57.4 UT CM I 245,5° CM II 347,2° CM III 241,5°
SW 406mm (16") / 2900MM / Xcel x3
IR 642
Fourmies 50° Nord / France
Jean-Paul OGER





Saturn's Satellites, Major Moons of SATURN
2023-07-22 (yyyy-mm-dd), 01:42.6 UT CM I 306,3° CM II 242,5° CM III 241,1°
SW 406mm (16") / ASI 462 MC
Fourmies 50° Nord / France
Jean-Paul OGER

LE SEEING

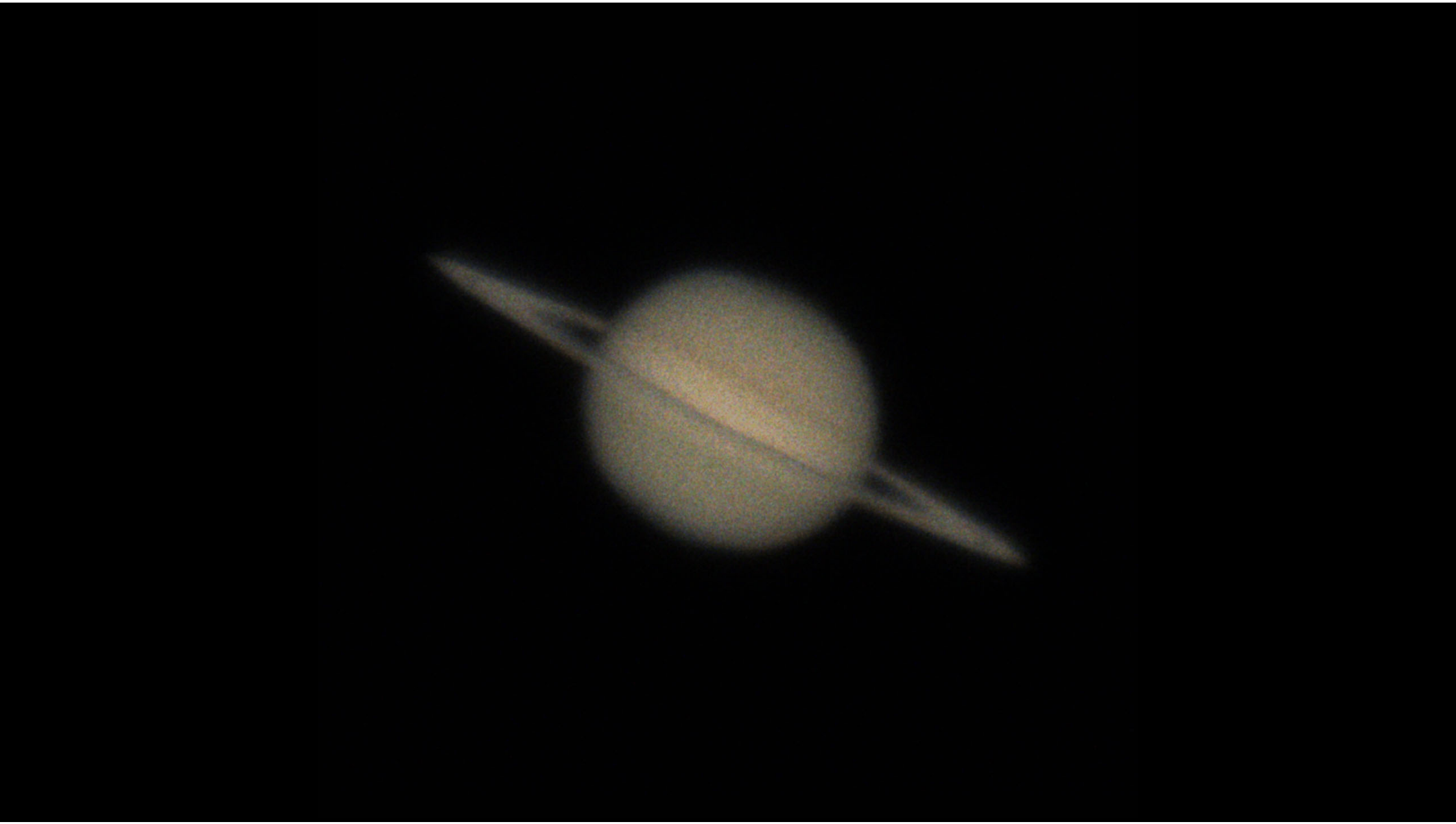


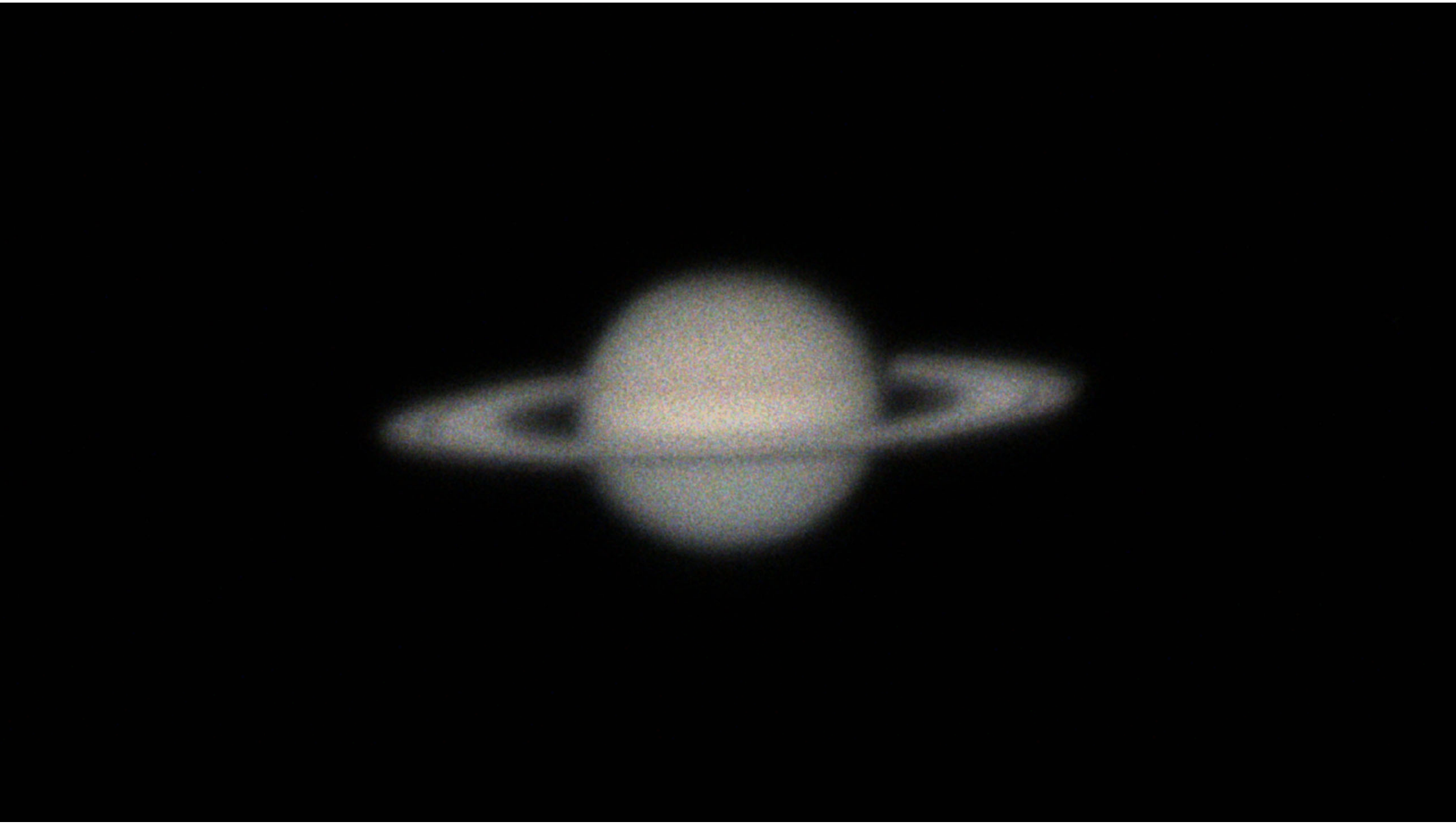
11	75	0	0	1.17	4	2	13m/s	00.
12	72	0	0	1.16	4	2	13m/s	00.
13	64	0	0	1.17	4	2	13m/s	00.
14	63	0	1	1.18	4	2	13m/s	00.
15	63	0	2	1.19	4	2	13m/s	00.
16	62	0	3	1.21	4	2	14m/s	00.
17	60	0	2	1.23	4	2	16m/s	00.
18	55	0	1	1.24	4	2	17m/s	00.
19	39	0	0	1.25	3	1	17m/s	03.
20	17	0	0	1.23	3	1	18m/s	03.
21	11	0	0	1.21	3	1	18m/s	03.
22	0	0	0	1.20	3	1	18m/s	03.
23	0	0	4	1.19	3	1	20m/s	03.

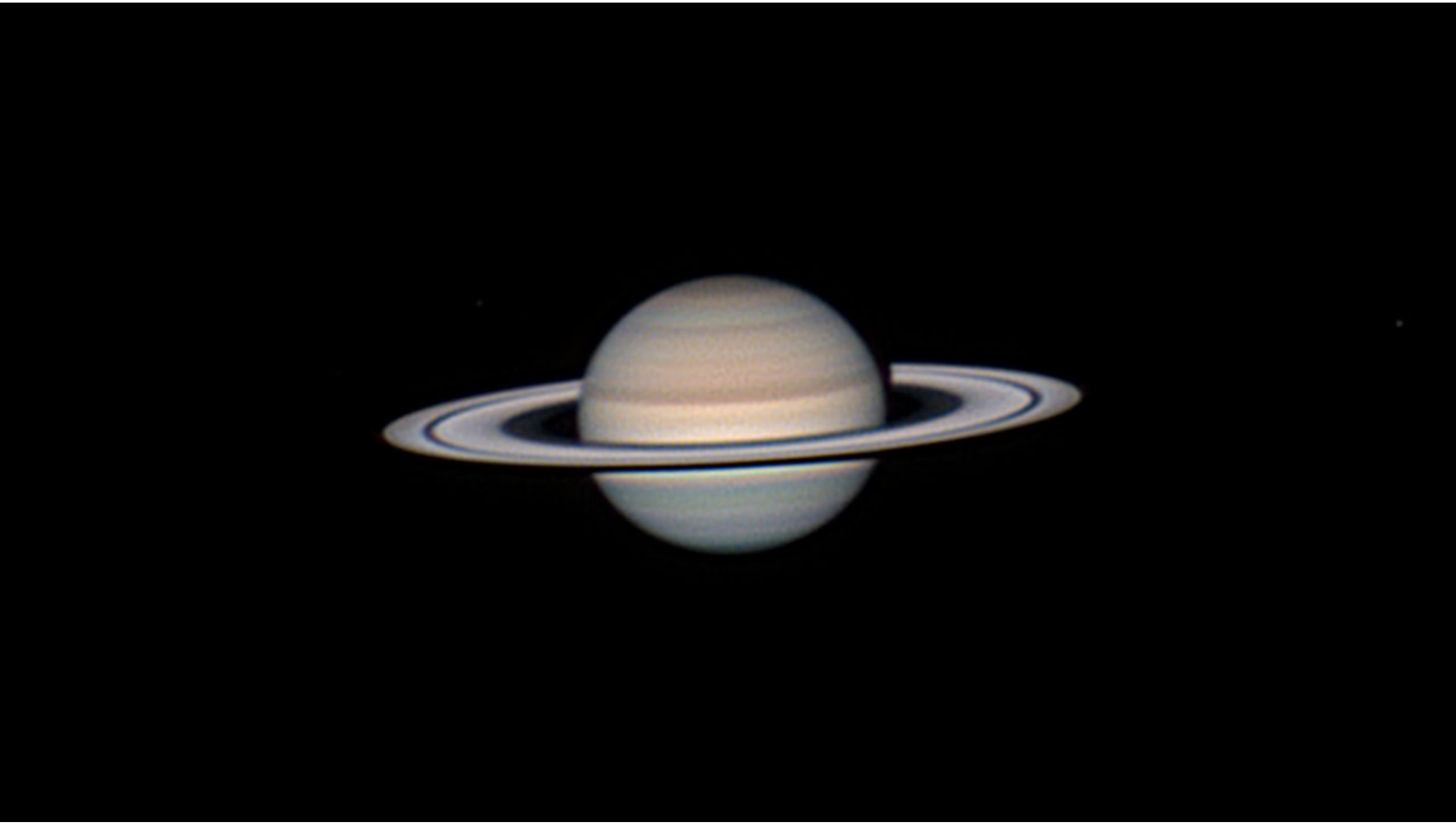
Lun 2024-11-04

sunrise: 07:37 sunset: 17:17 moonrise: 11:13 moonset

	Low	Mid	High	Arc Sec.	1	2	Jet Stream	Bot (km
0	0	0	10	1.17	3	1	20m/s	03.
1	0	0	13	1.13	3	1	21m/s	00.
2	0	0	10	1.09	3	1	21m/s	00.
3	0	0	4	1.08	3	1	21m/s	00.
4	2	0	0	1.06	3	1	21m/s	00.
5	2	0	0	1.04	3	1	21m/s	00.
6	3	0	0	1.05	3	1	21m/s	00.
7	0	0	0	1.04	3	1	21m/s	00.
8	0	0	0	1.02	3	1	22m	0.
9	0	0	0	1.05	3	1	23m/s	00.
10	0	0	0	1.08	4	2	24m/s	00.
11	0	0	0	1.08	4	2	25m/s	00.
12	0	0	0	1.09	4	2	26m/s	00.
13	0	0	0	1.09	4	3	27m/s	00.
14	0	0	0	1.06	4	3	27m/s	00.





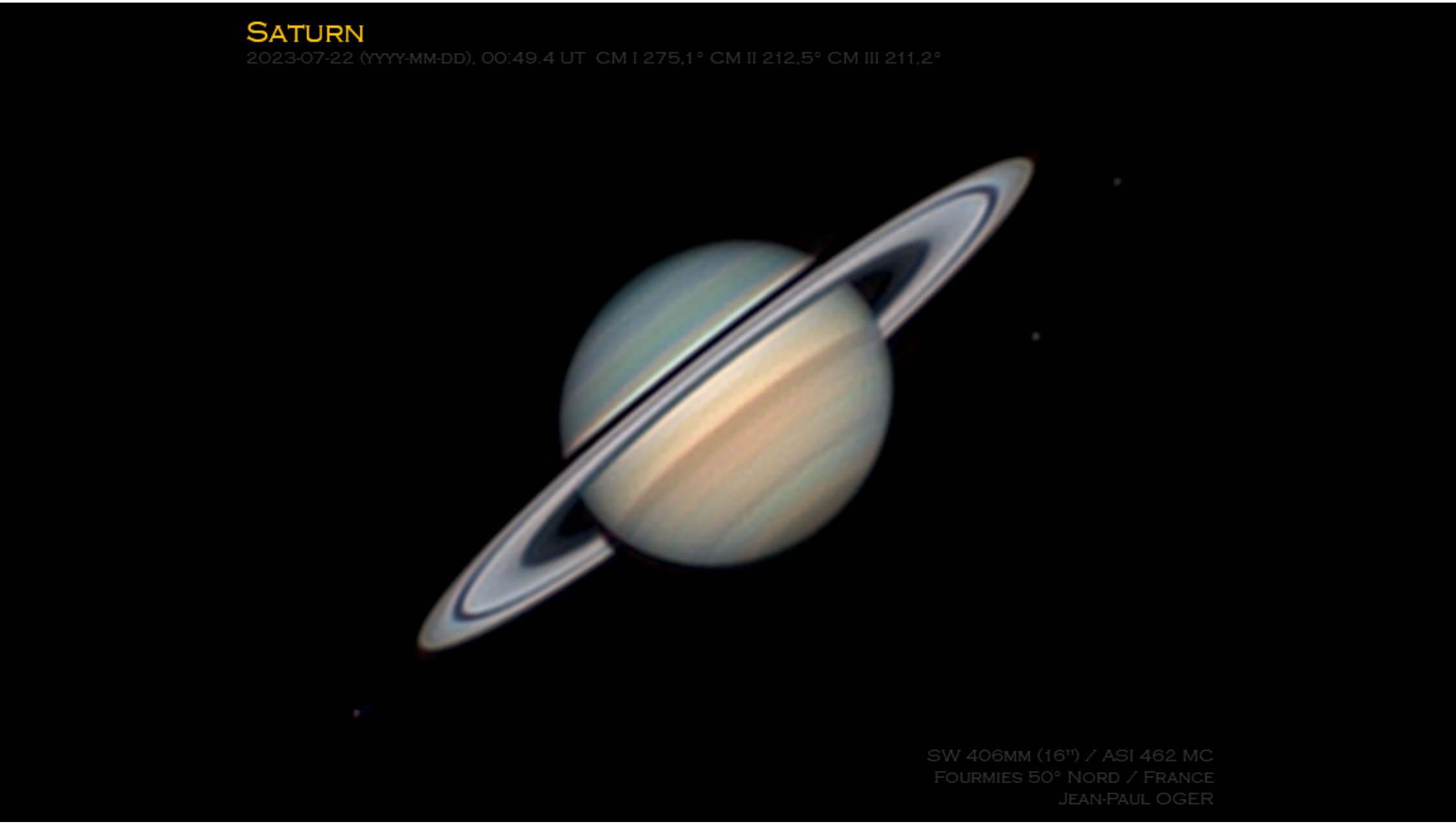


180 à 240 secondes

ENTRE 15 ET 20 MS
ICI DES BRUTES DE STACKING AVEC 4 MINUTES DE VIDÉOS UNITAIRE

Saturn

2023-07-22 (YYYY-MM-DD), 00:49.4 UT CM I 275,1° CM II 212,5° CM III 211,2°



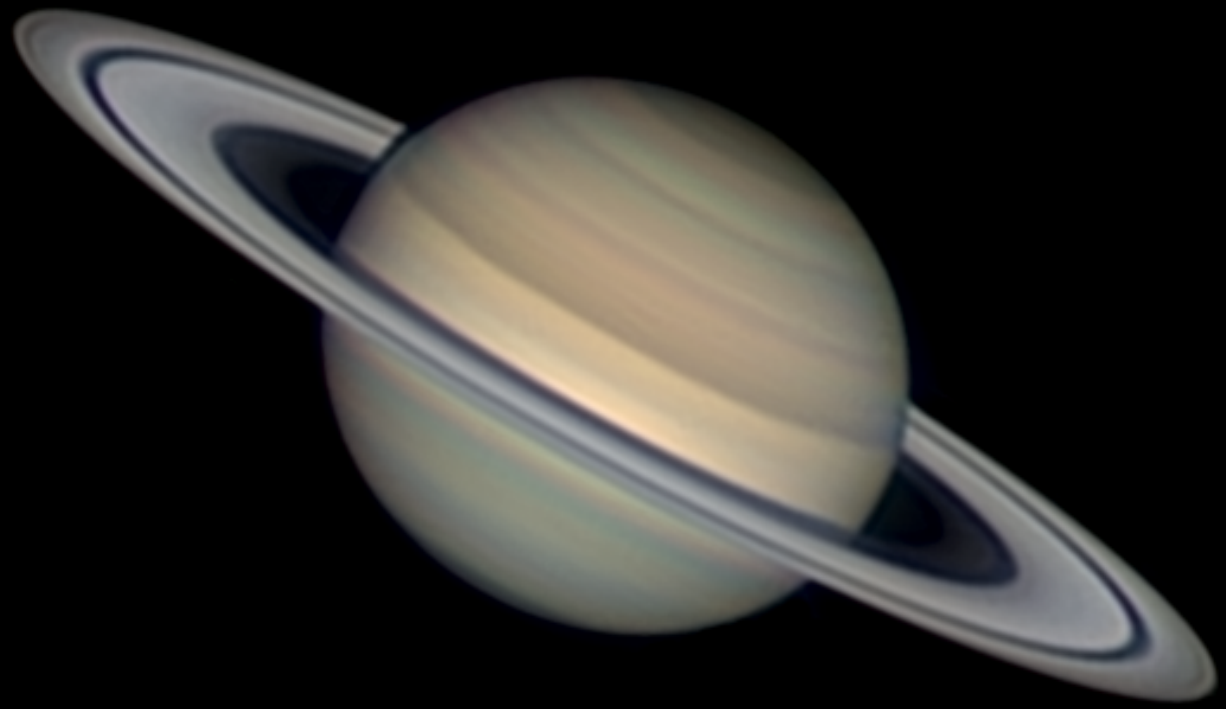
SW 406mm (16") / ASI 462 MC
Fourmies 50° Nord / France
Jean-Paul OGER

SATURN

00:36.9 UT CM I 288,2° CM II 272,2° CM III 232,3°

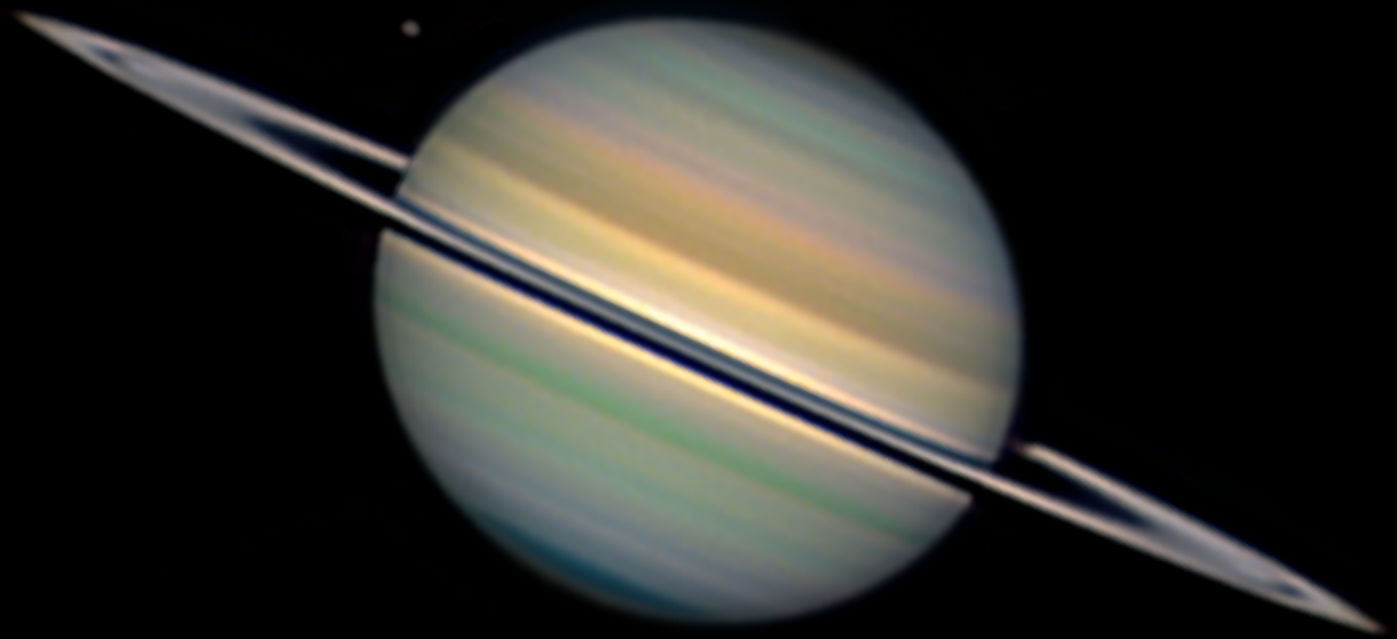
2023-08-23 (YYYY-MM-DD)
SW 406MM (16") / ASI 462 MC / 290MM
FOURMIES 50° NORD / FRANCE
JEAN-PAUL OGER

SATURN



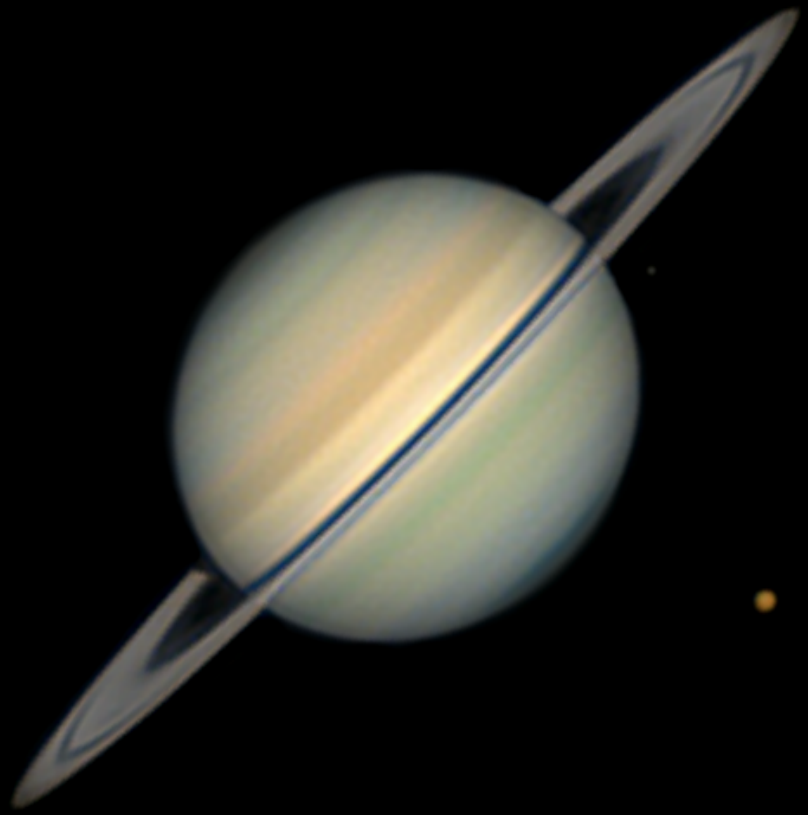
2023-09-06 (yyyy-mm-dd), 22:24.1 UT CM I 275,8° CM II 138,3° CM III 80,4°
SW 406mm (16") / ASI 462 MC / 290MM / Xcel x3
Fourmies 50° Nord / France
Jean-Paul OGER

Saturn

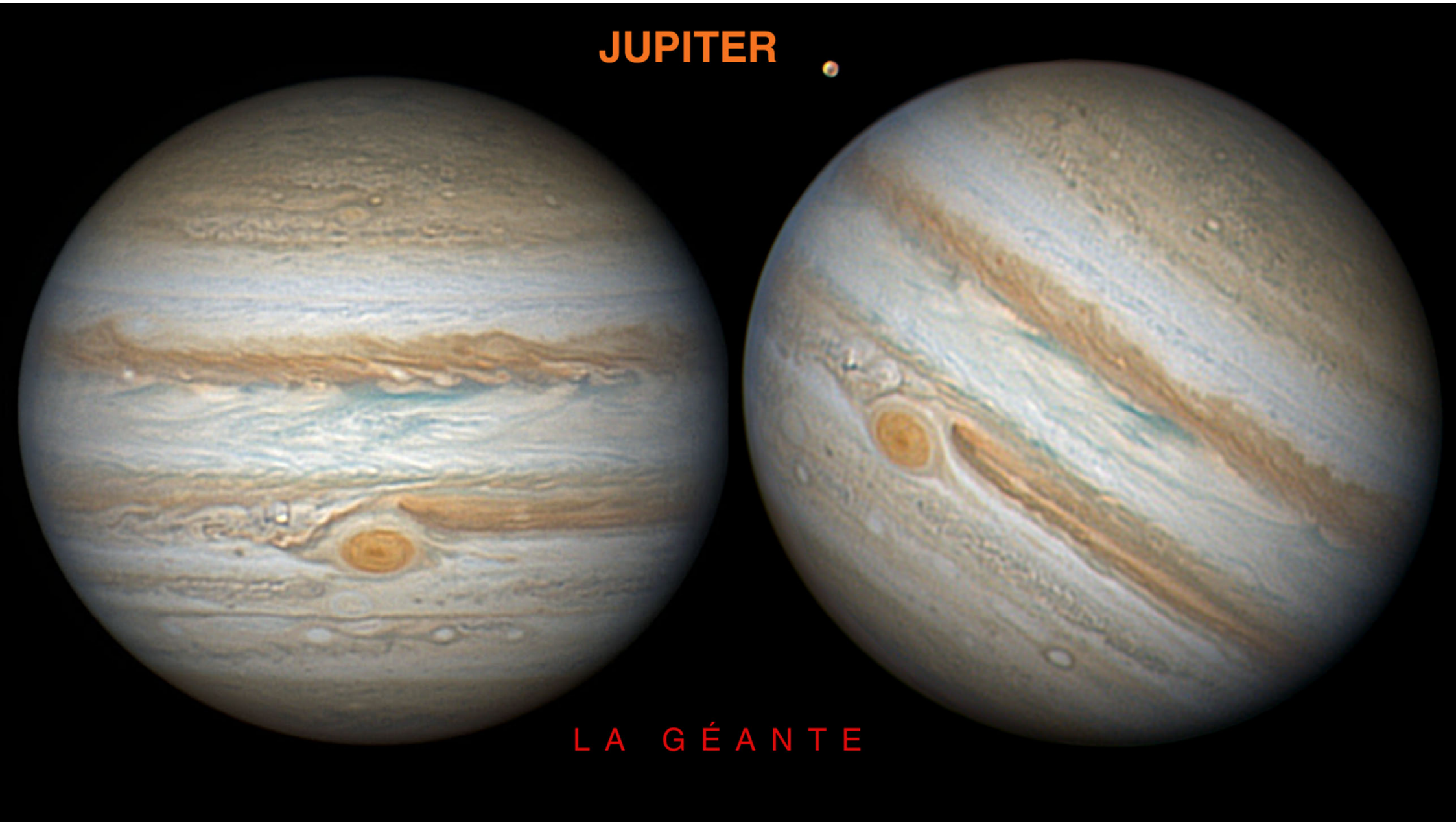


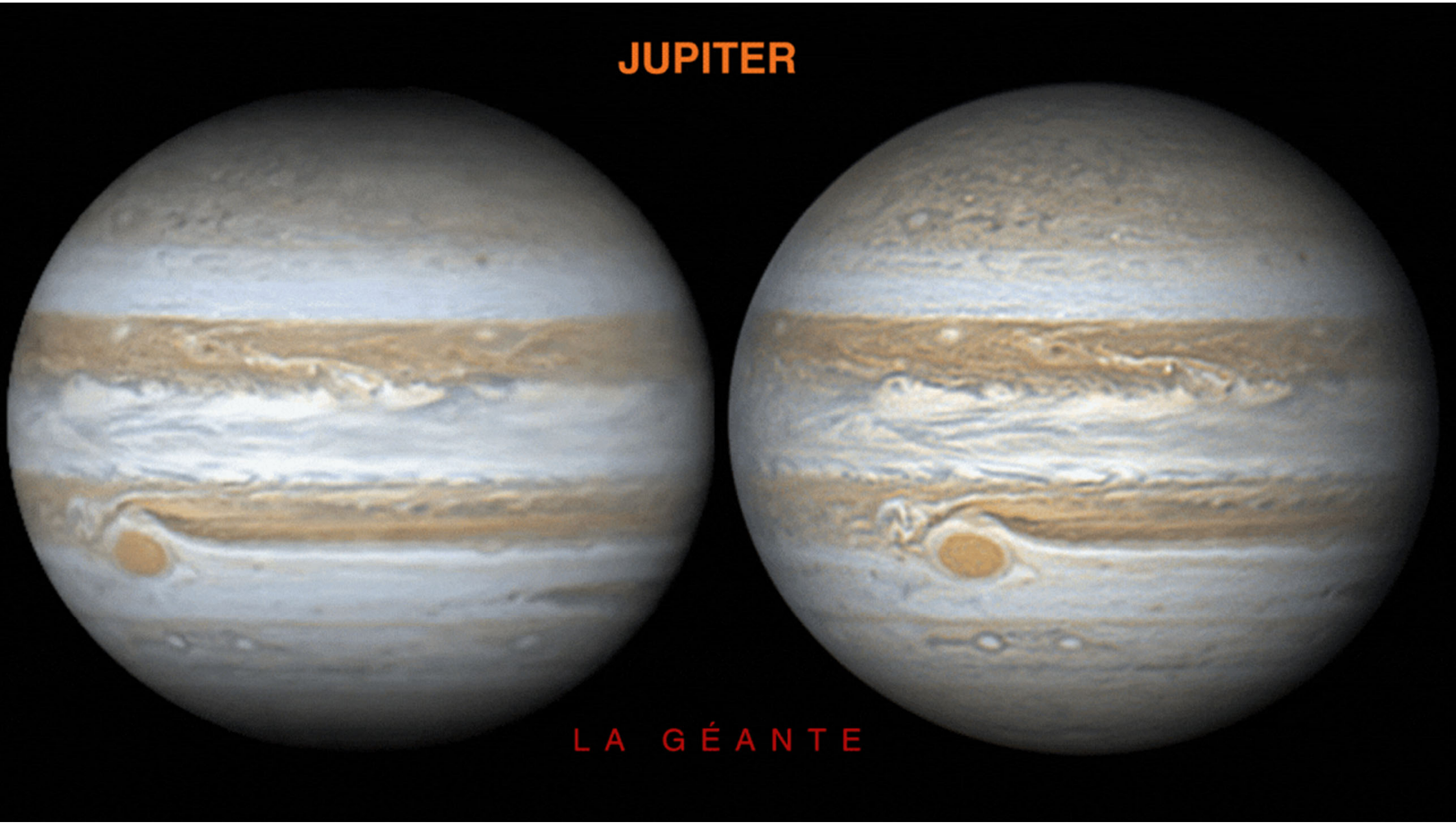
2024-08-10 (yyyy-mm-dd), 01:21.1 UT CM I 259,4° CM II 0,5° CM III 254,8°
SW 406mm (16") / ASI 664 MC / 290MM + IR 642 / Xcel x3
Fourmies 50° Nord / France
Jean-Paul OGER

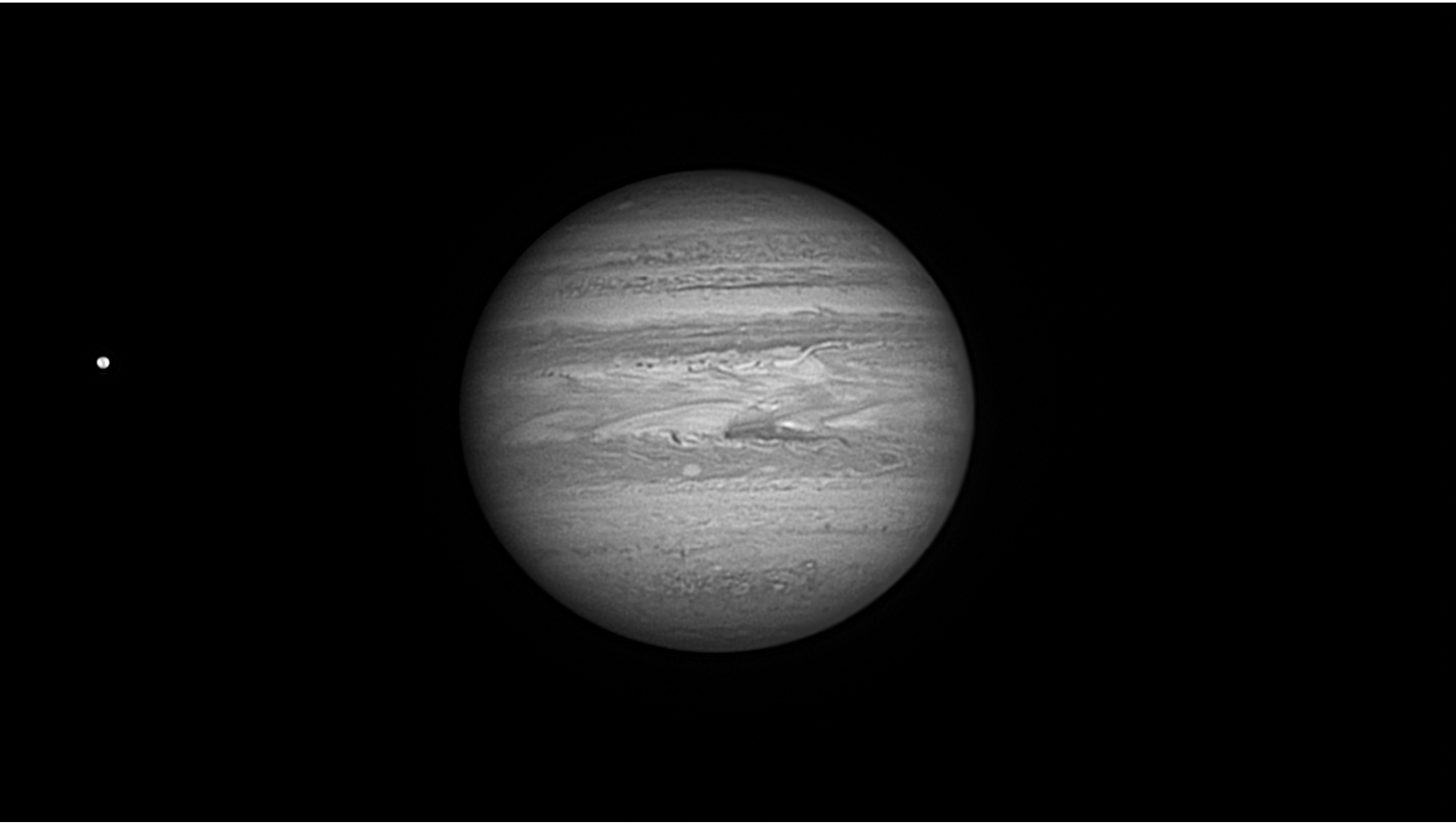
Saturn & Titan



2024-10-03 (yyyy-mm-dd), 22:22.8 UT CM I 154,9° CM II 283,6° CM III 111,7°
SW 406mm (16") / ASI 664 MC / 2x APM Comacorrecting 2.7x
Fourmies 50° Nord / France
Jean-Paul OGER


JUPITER
LA GÉANTE

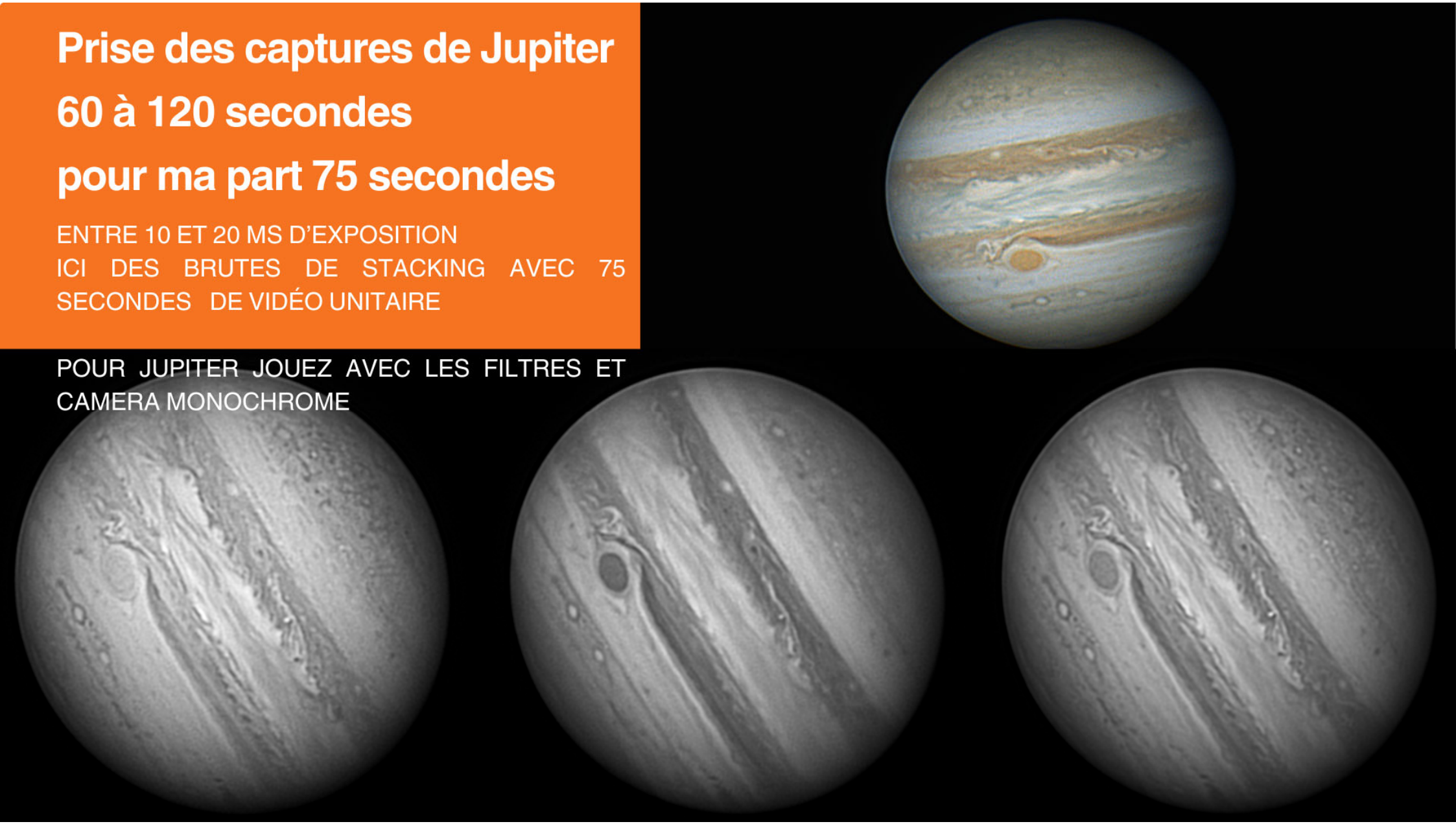

JUPITER
LA GÉANTE

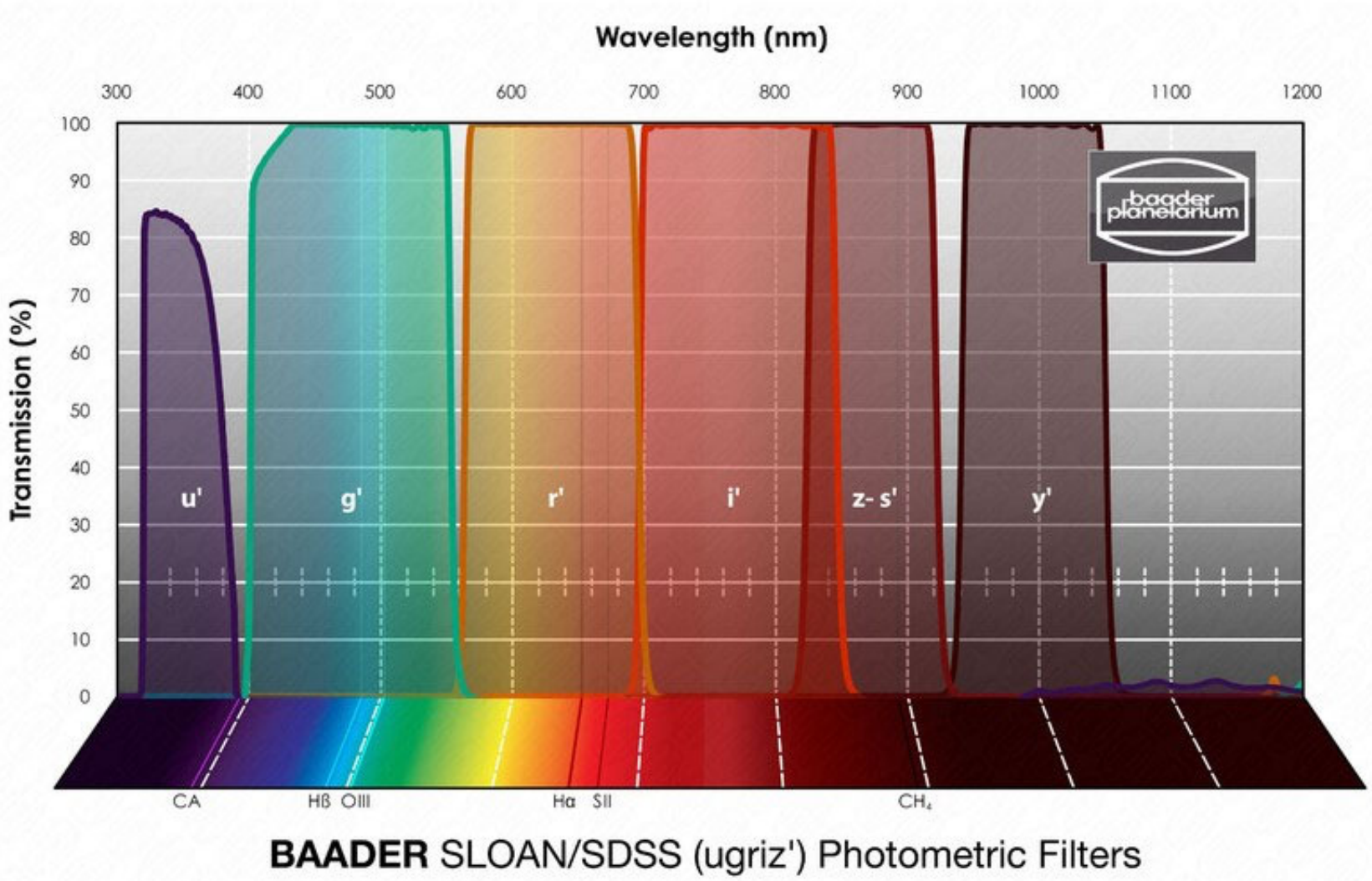


Prise des captures de Jupiter
60 à 120 secondes
pour ma part 75 secondes

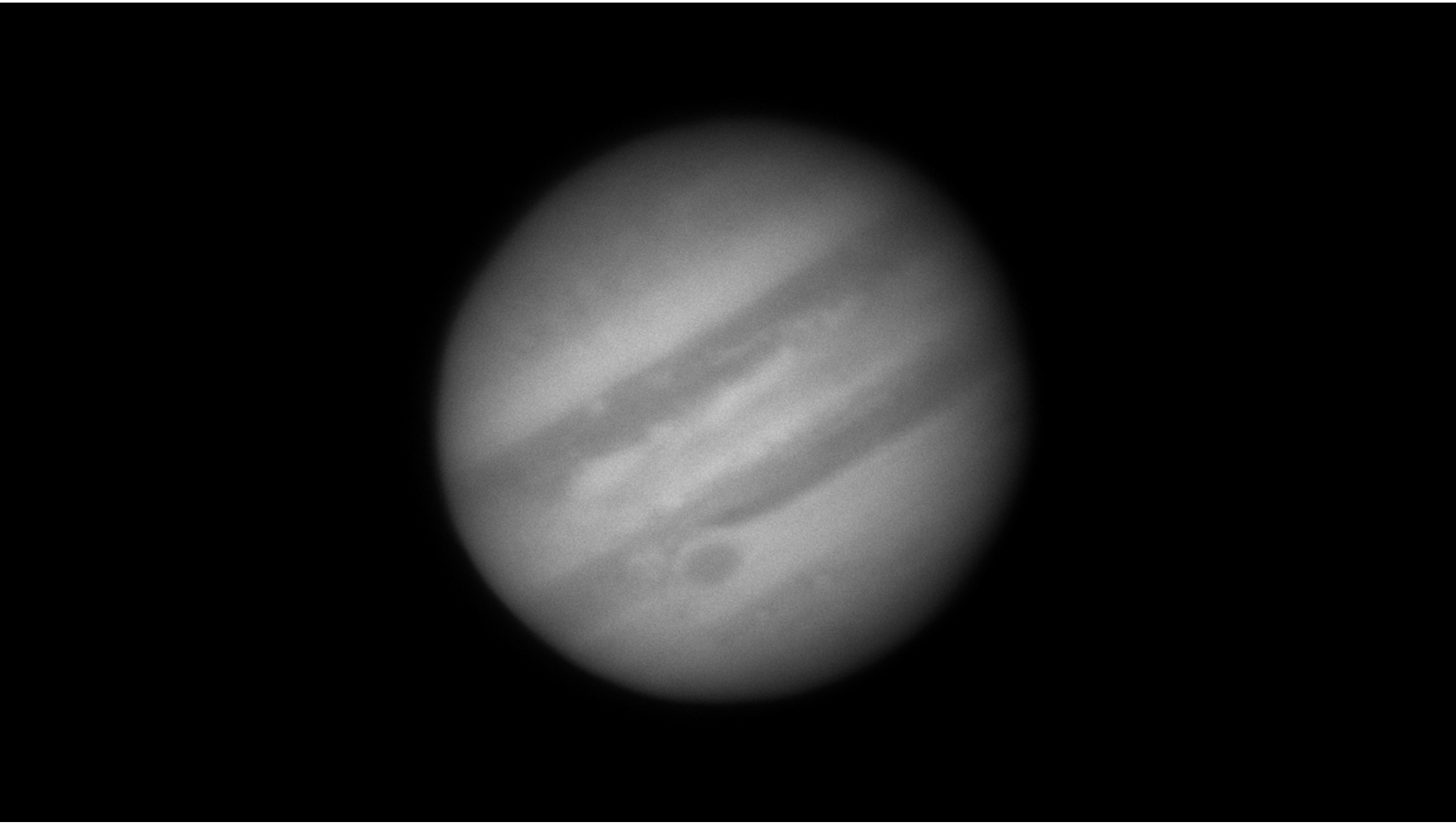
ENTRE 10 ET 20 MS D'EXPOSITION
ICI DES BRUTES DE STACKING AVEC 75 SECONDES DE VIDÉO UNITAIRE

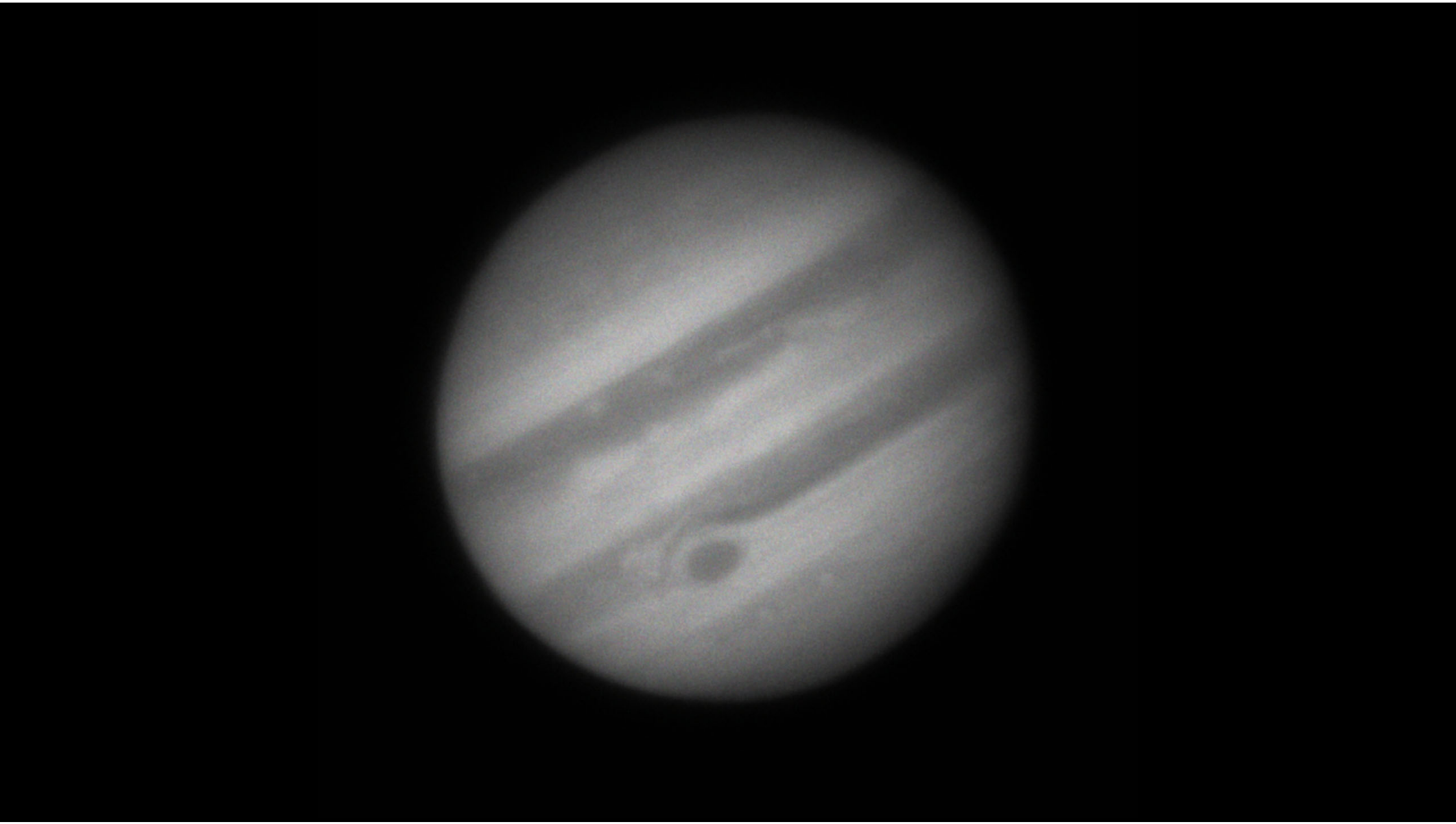
POUR JUPITER JOUEZ AVEC LES FILTRES ET CAMERA MONOCHROME

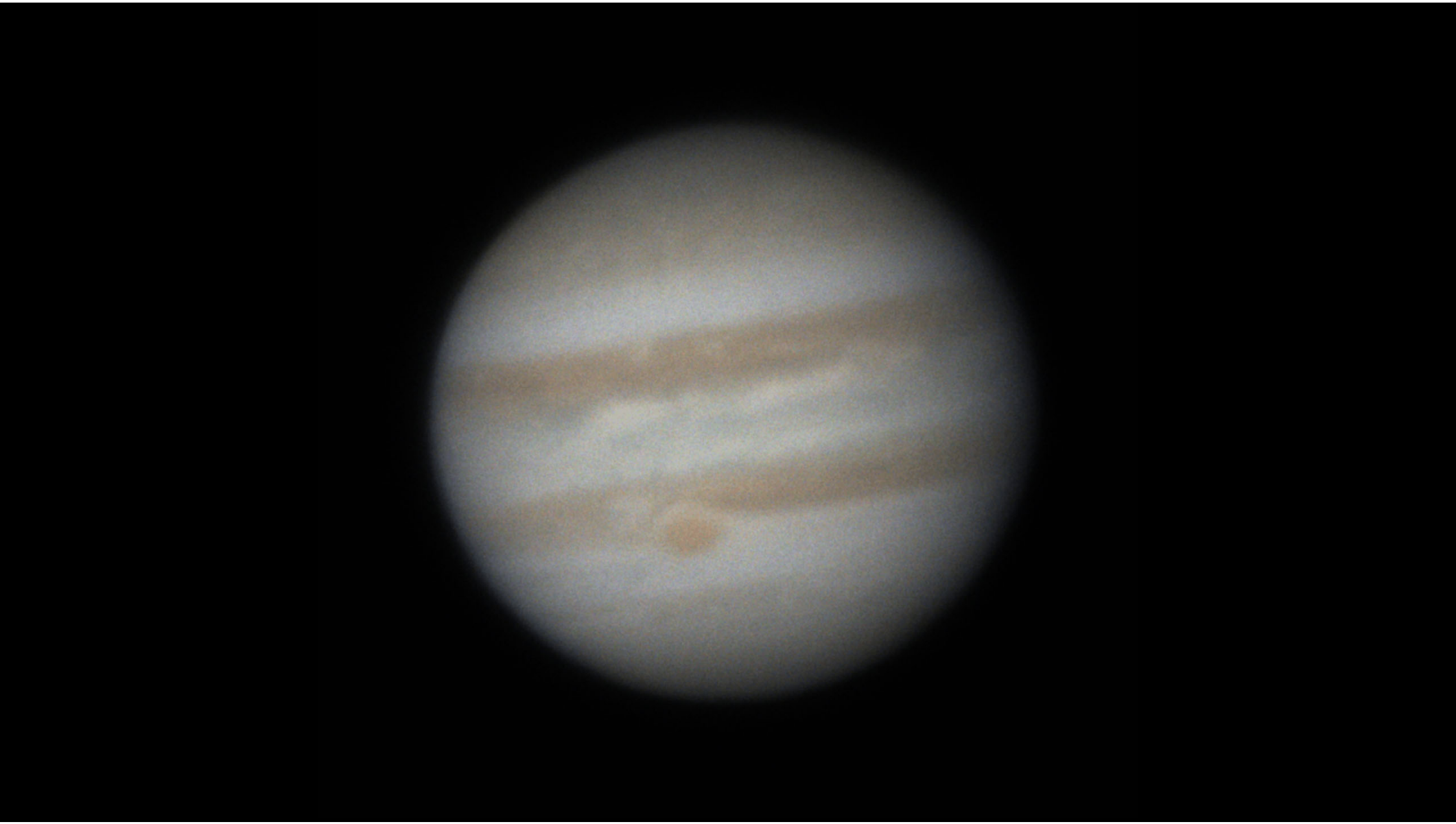




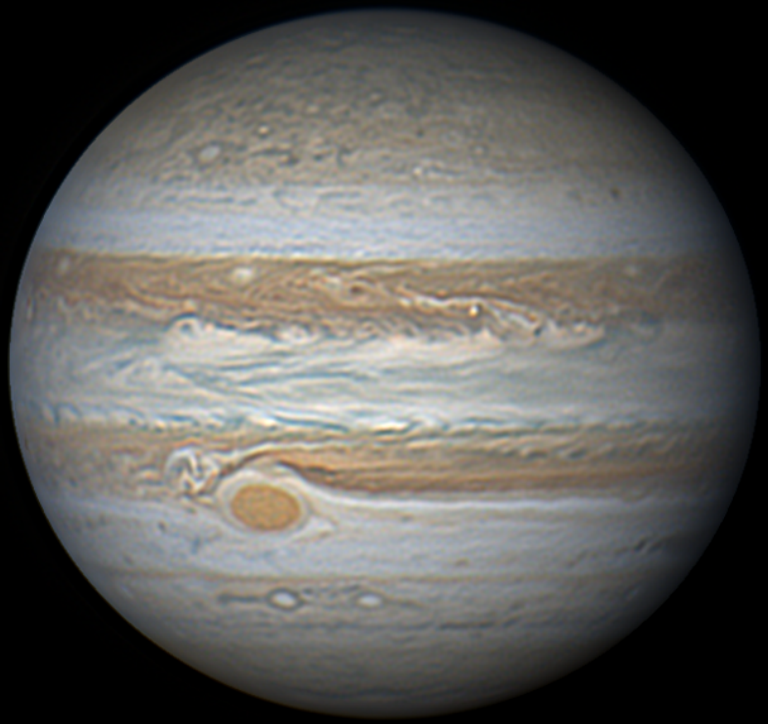
BAADER SLOAN/SDSS (ugriz') Photometric Filters



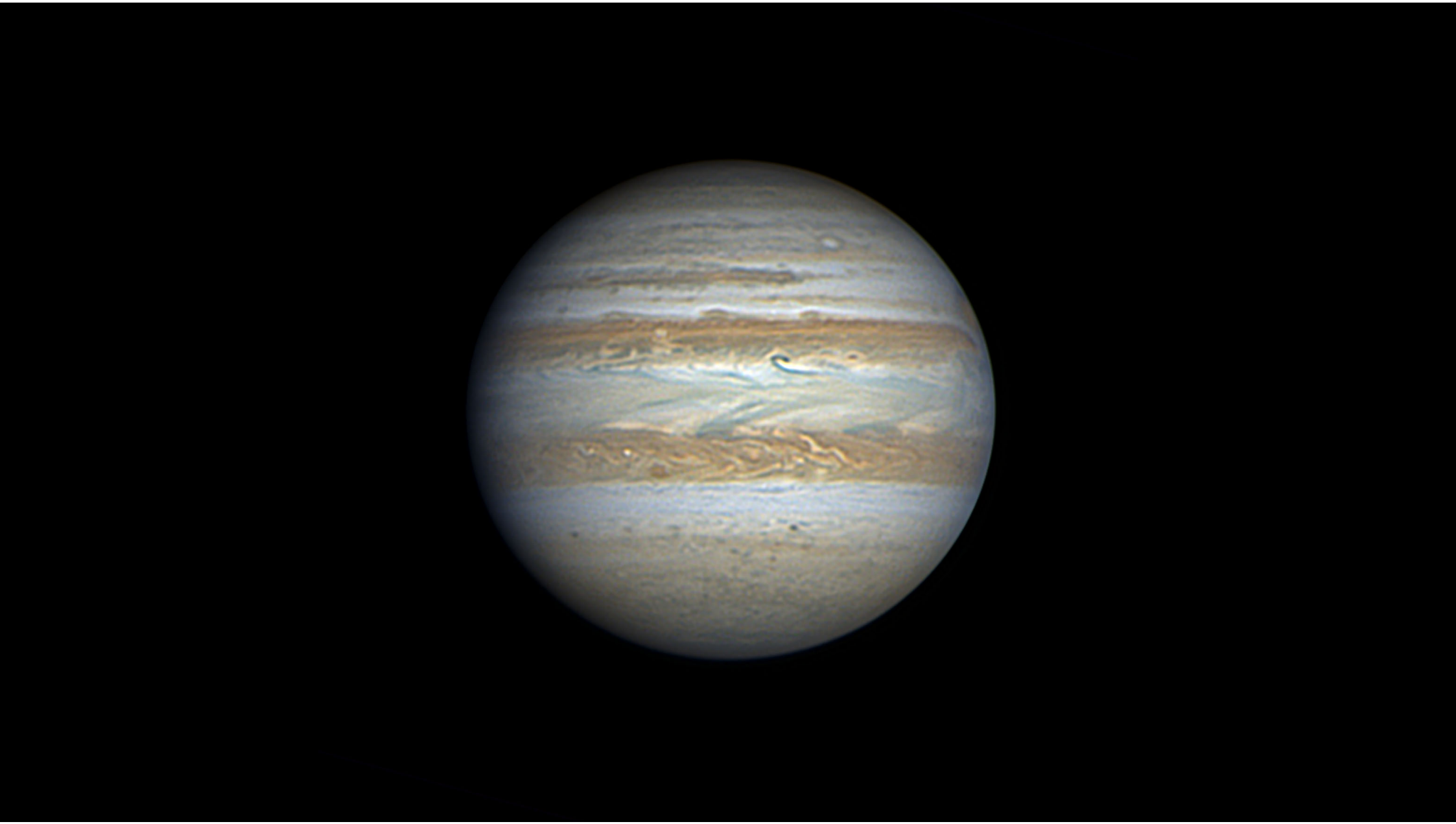




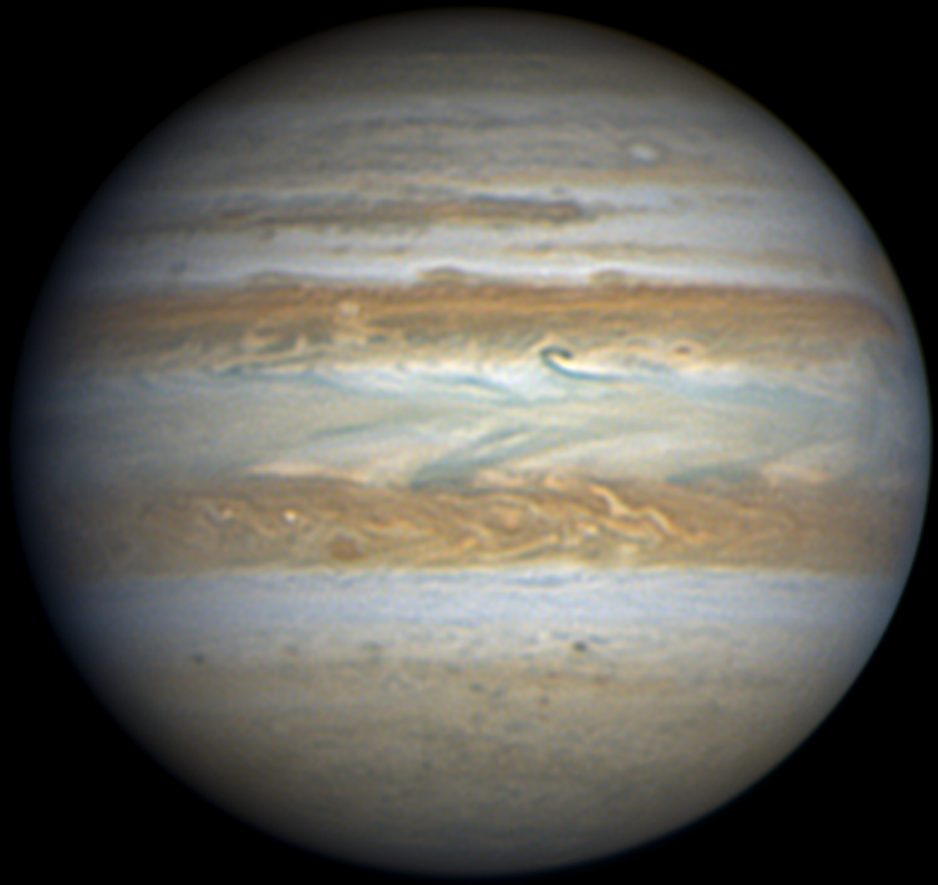
Jupiter



2024-09-15 (yyyy-mm-dd), 02:14.1 UT CM I 154,1° CM II 40,5° CM III 162,4°
SW 406mm (16") / ASI 664 MC / 290MM / 2x APM Comacorrecting
Fourmies 50° Nord / France
Jean-Paul OGER

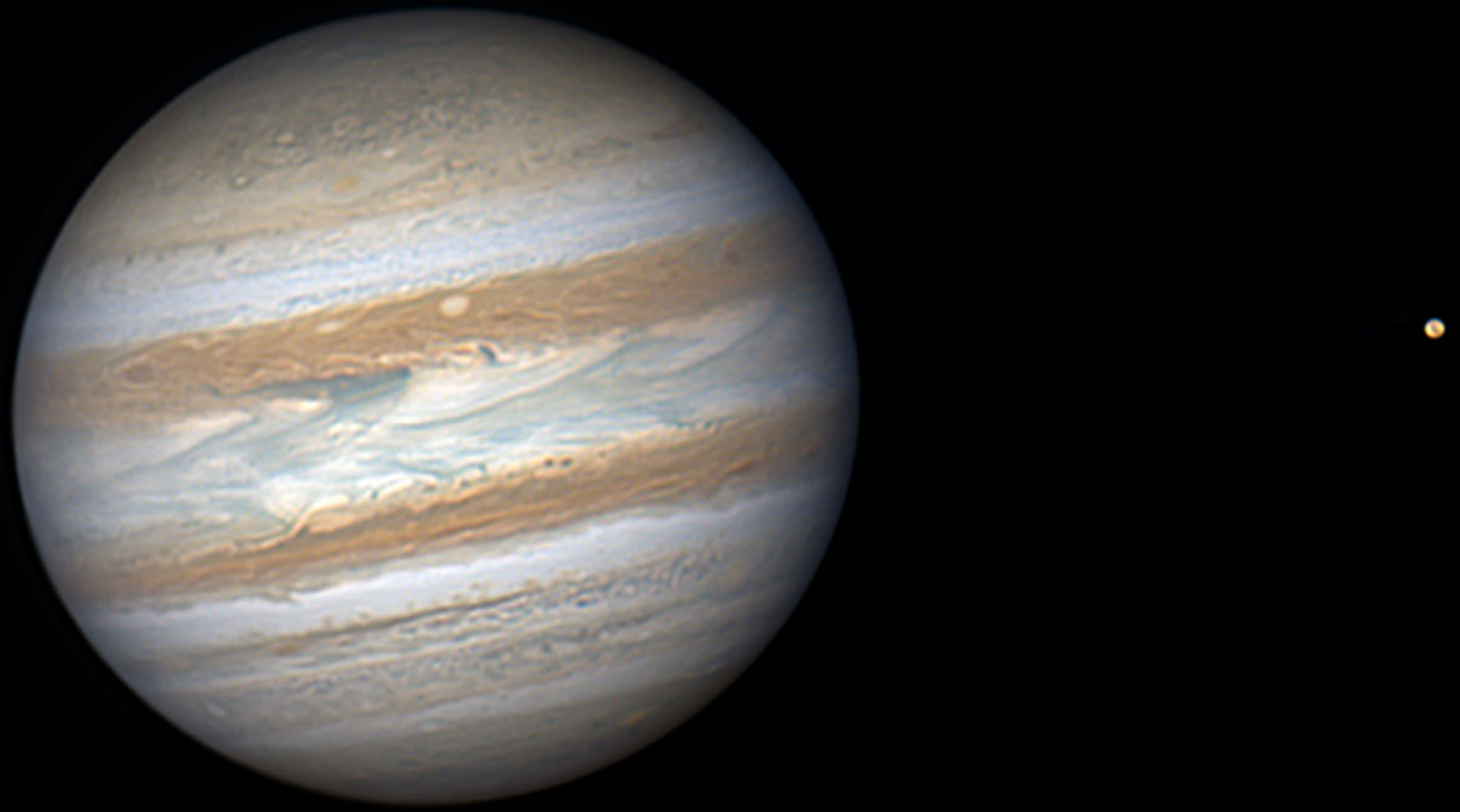


Jupiter

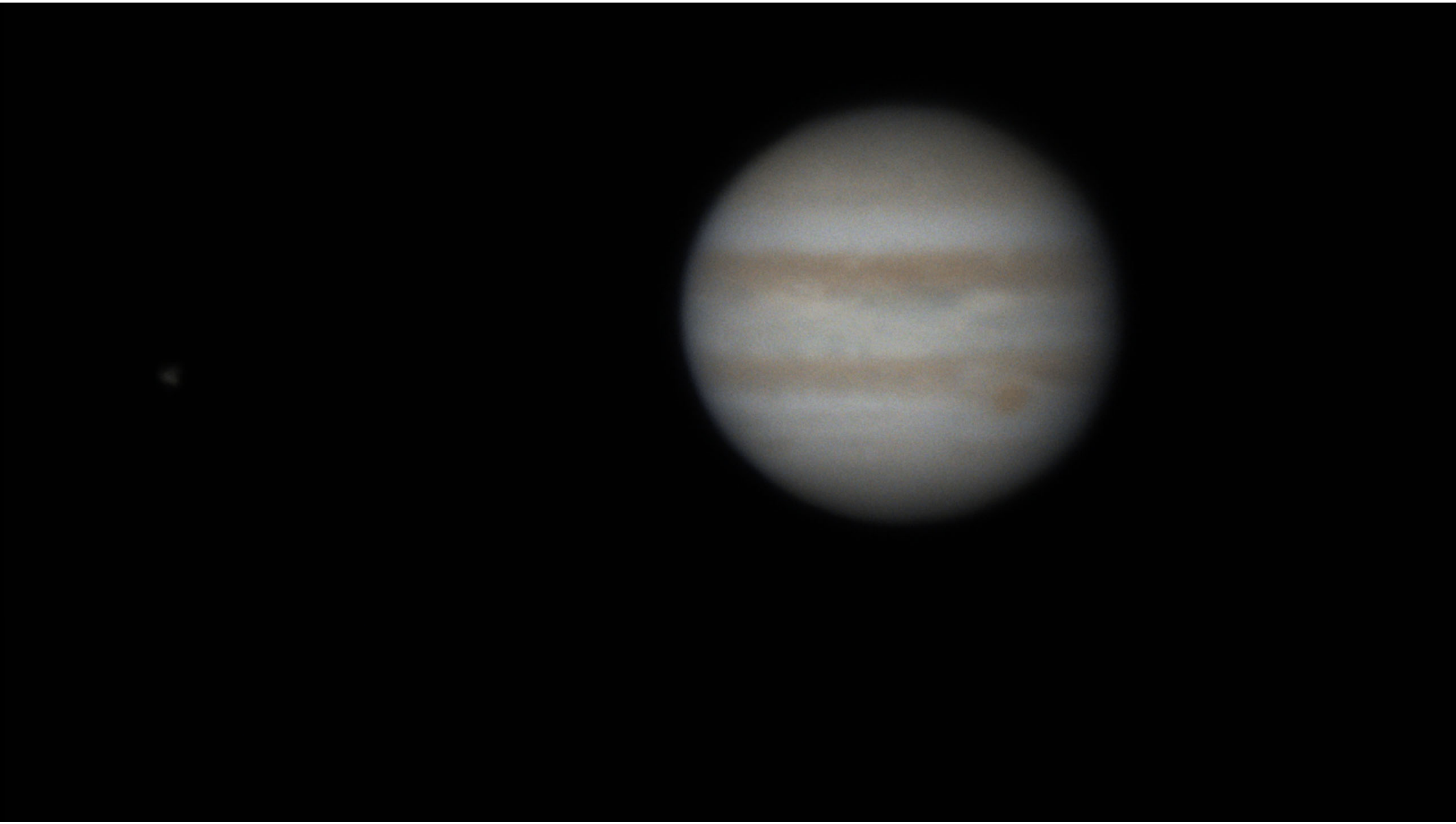


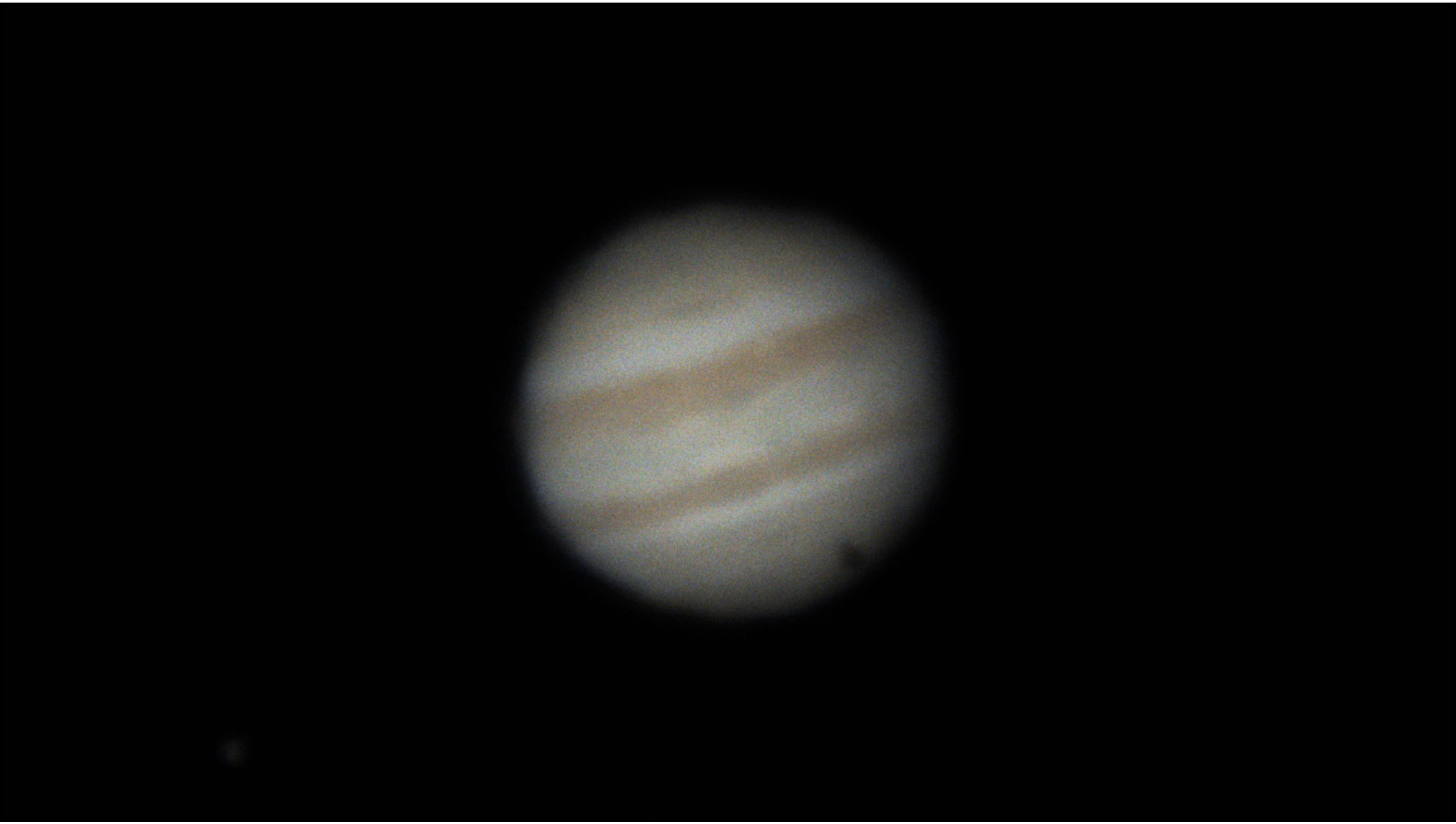
2024-08-19 (yyyy-mm-dd), 03:14.9 UT CM I 248,8° CM II 340,9° CM III 95,6°
SW 406mm (16") / ASI 664 MC / 2x APM Comacorrecting
6 x 75 seconds
Fourmies 50° Nord / France
Jean-Paul OGER

Jupiter and Io

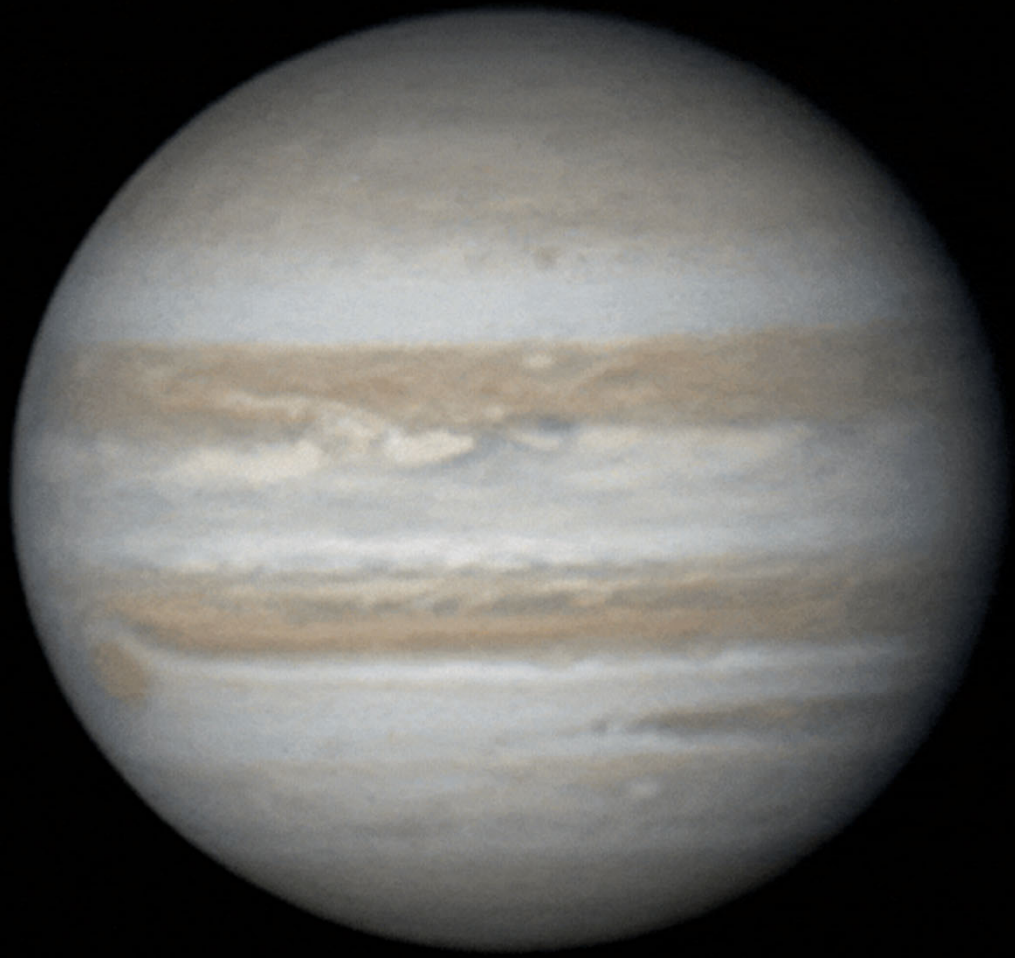


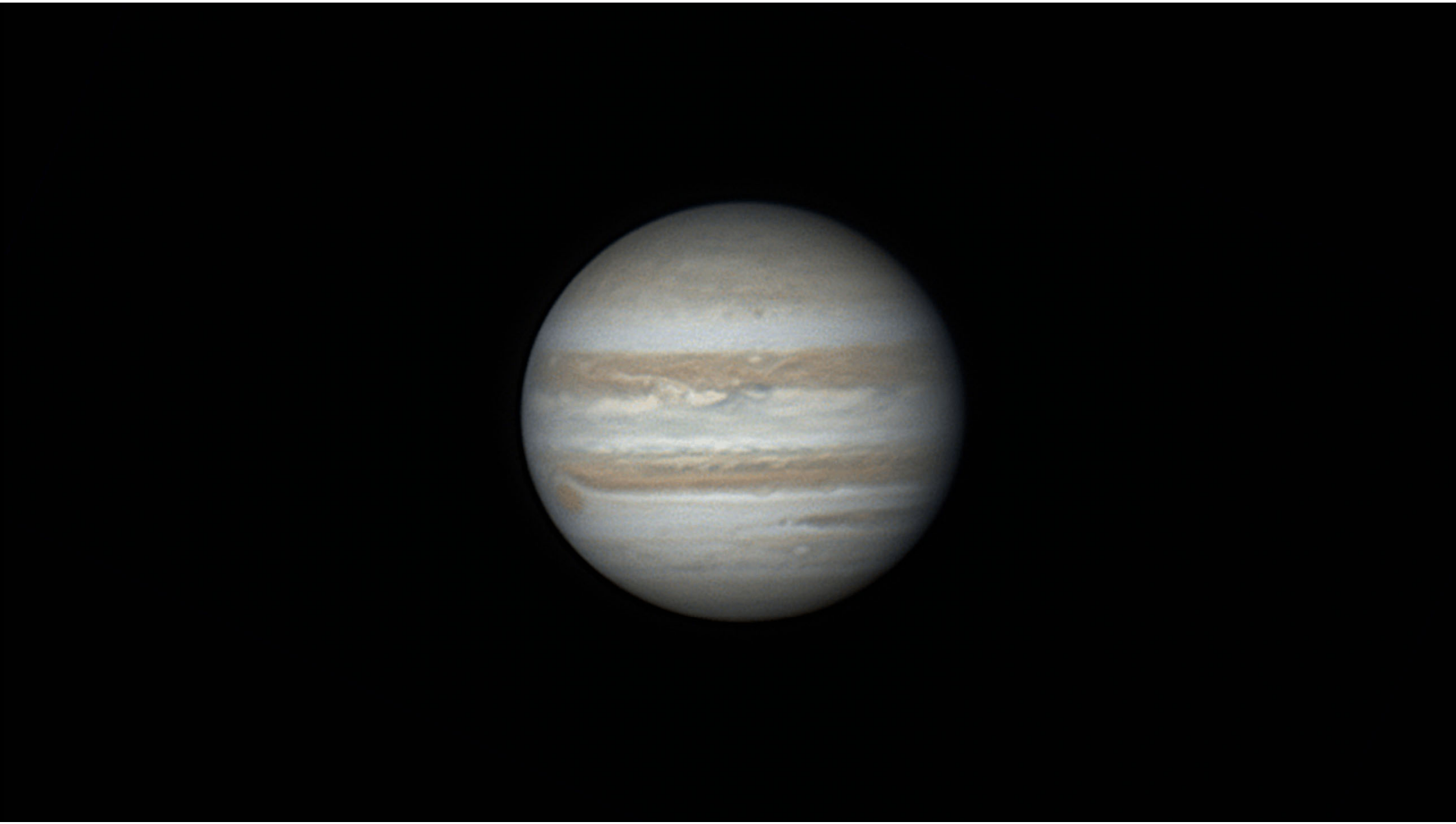
2024-11-03 (yyyy-mm-dd), 23:05.6 UT CM I 17,3° CM II 243,1° CM III 18,3°
SW 406mm (16") / ASI 664 MC / 290MM / 2x APM Comacorrecting 2.7x
Fourmies 50° Nord / France
Jean-Paul OGER

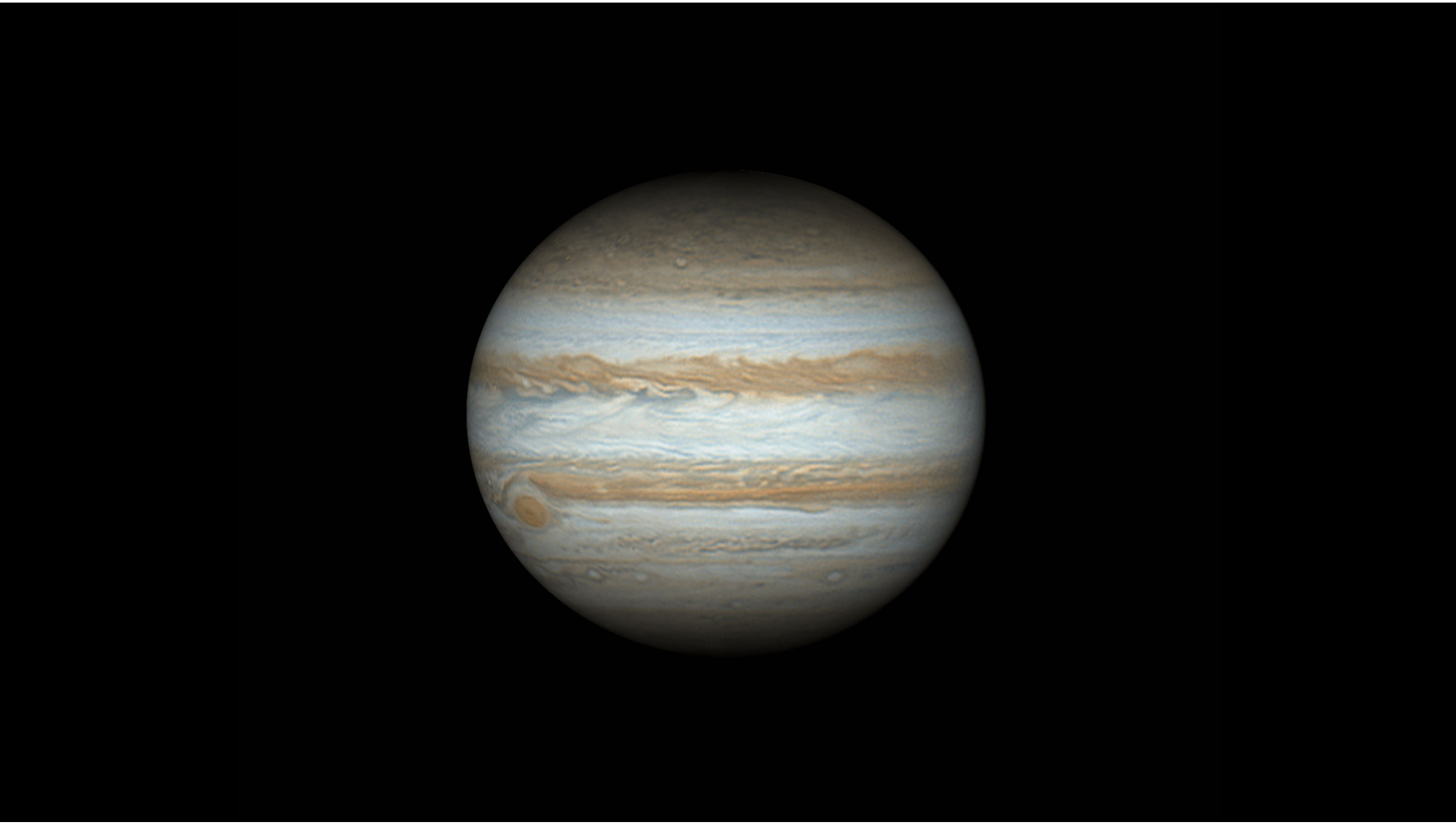


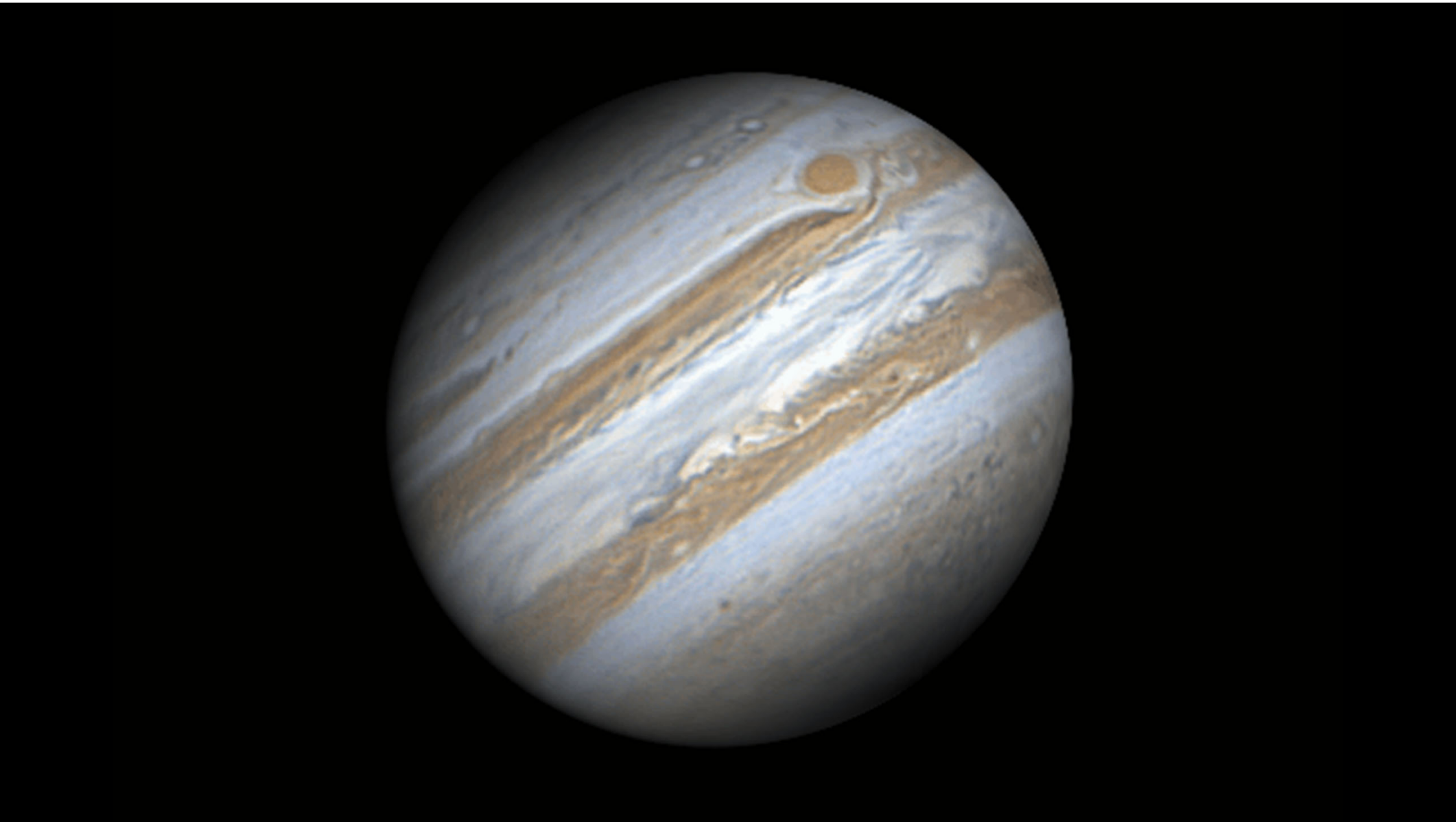


Et la rotation de champ ?? Aucun probleme
avec Winjupos

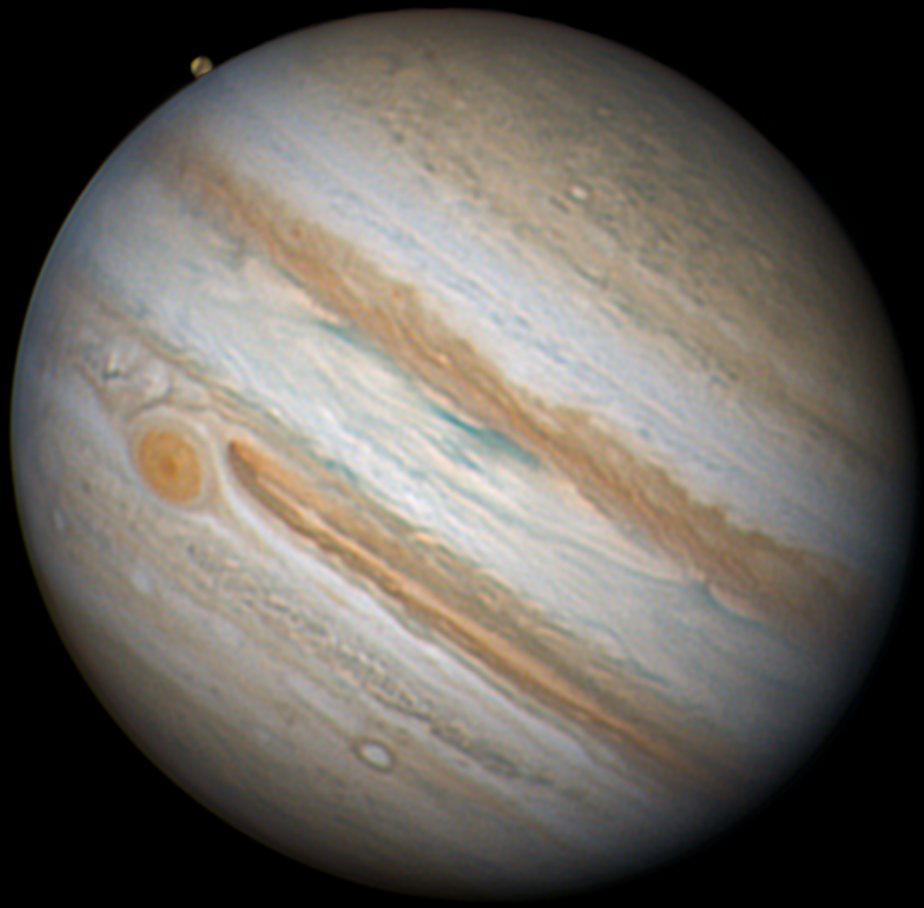




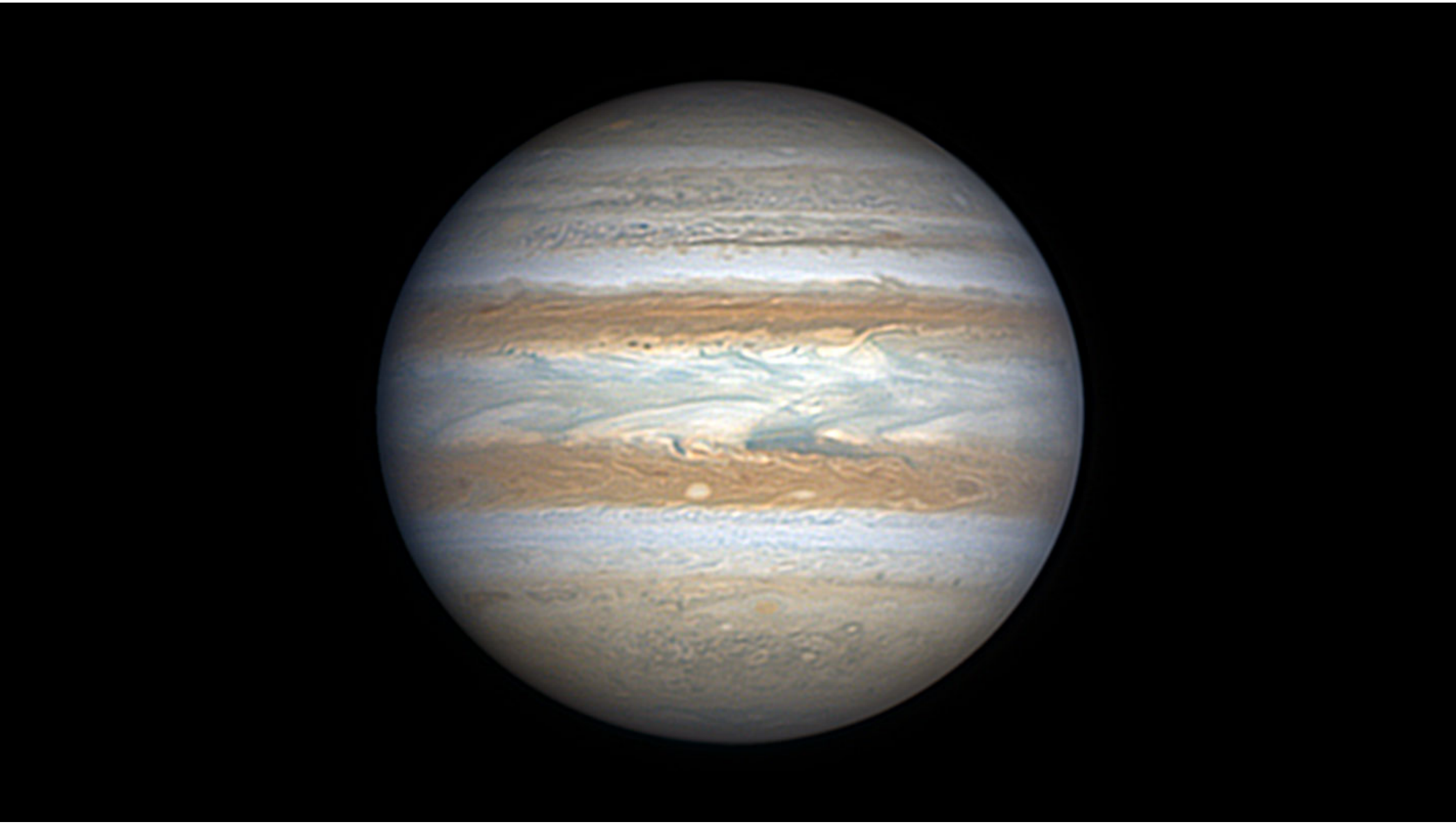


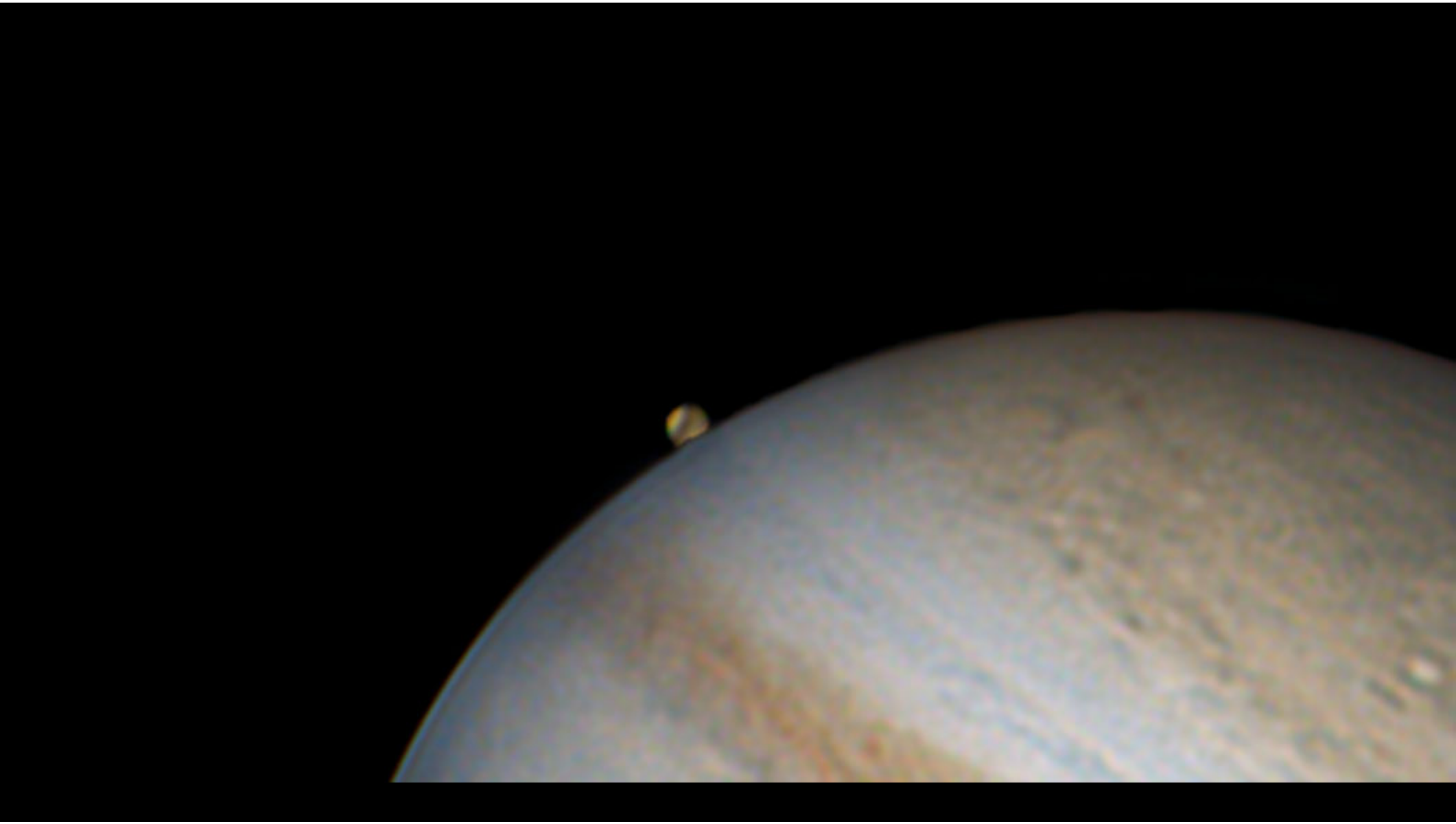


JUPITER



2023-09-14 (YYYY-MM-DD), 02:14.3 UT CM I 202,7° CM II 9,3° CM III 33,6°
SW 406MM (16") / ASI 462 MC / 290MM / XCEL X3
FOURMIES 50° NORD / FRANCE
JEAN-PAUL OGER



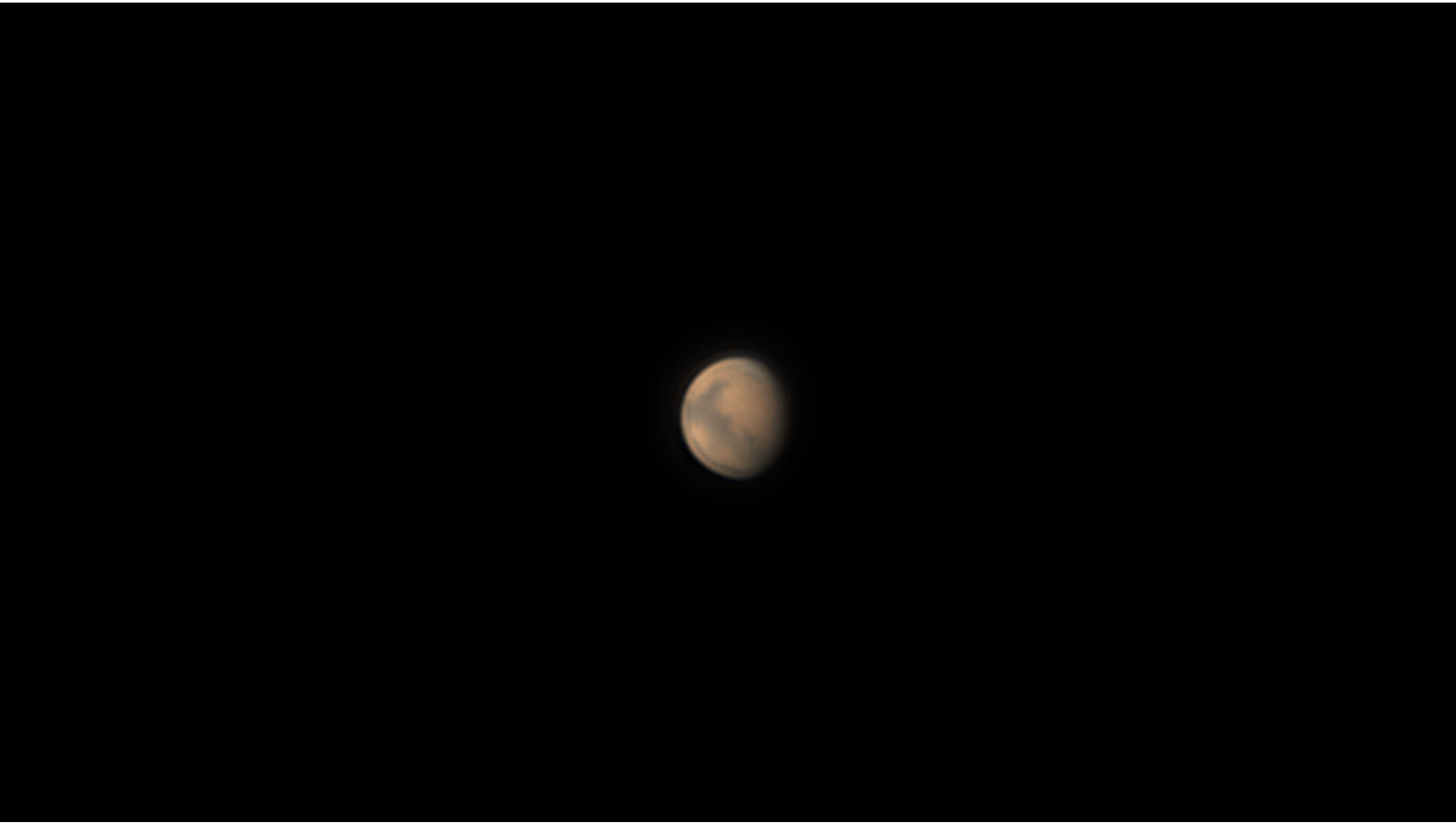


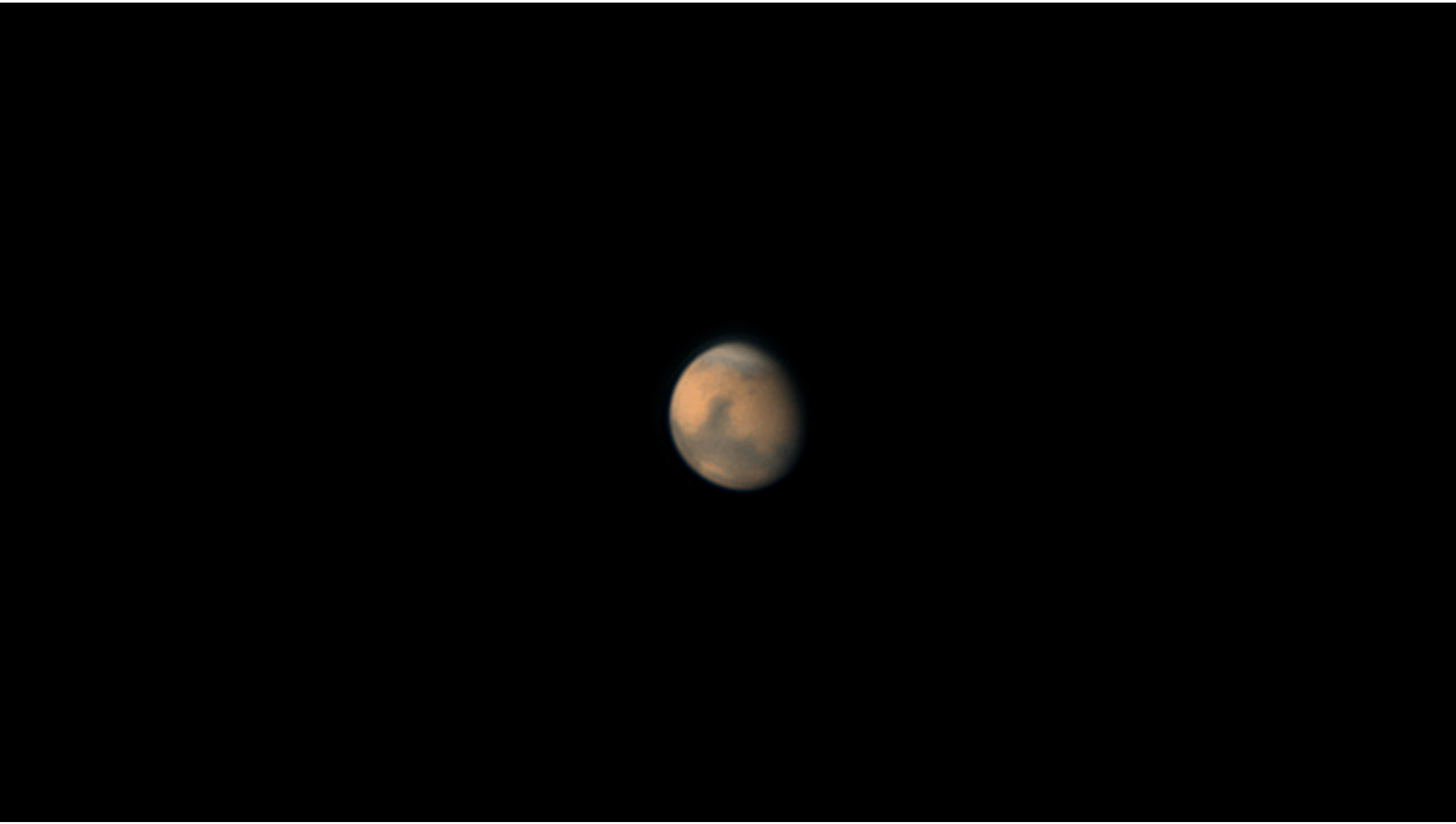
MARS

Vidéo de 240 secondes facilement

6 ms d’exposition

ADC toujours indispensable même à haute élévation

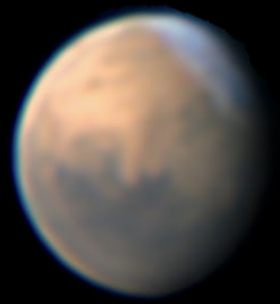




Mars

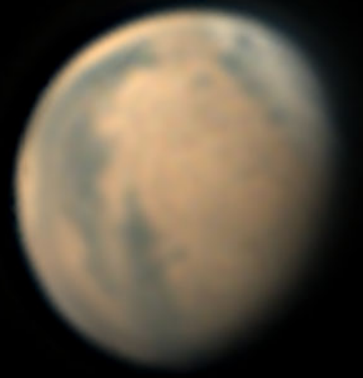
2024-08-28 (YYYY-MM-DD), 04:25.7 UT CM 253,8°
SW 406mm (16") / ASI 664 MC / 2x APM Comacorrecting
Fourmies 50° Nord / France
Jean-Paul Oger

Mars



2024-09-15 (YYYY-MM-DD), 03:06.9 UT CM 61,1°
SW 406mm (16") / ASI 664 MC / 2x APM Comacorrecting 2.7x
Fourmies 50° Nord / France
Jean-Paul OGER

MARS



2024-10-04 (yyyy-mm-dd), 02:37.0 UT CM 231,4°
SW 406mm (16") / ASI 664 MC / 2x APM Comacorrecting 2.7x
Fourmies 50° Nord / France
Jean-Paul OGER

Mars

2024-11-04 (yyyy-mm-dd), 00:44.7 UT CM 269,1°
SW 406mm (16'') / ASI 664 MC / 2x APM Comacorrecting 2.7x
Fourmies 50° Nord / France
Jean-Paul OGER

MERCI