




Gökyüzü Fotoğrafçılığı

Uğur İKİZLER

- 
- A sunset scene over a body of water. The sun is a bright orange circle on the horizon. The sky is a gradient of orange and yellow. In the foreground, there are silhouettes of people and tents on a dark shore.
- Netleme
 - Geniş açı
 - Yıldız izleri
 - Uydu izleri
 - Fotoğraf işleme
 - Derin uzay
 - Webcam ile Gezegen fotoğrafçılığı
 - Time Lapse (zaman atlamalı video)



Netleme



Bahtinov Maskesi







Odak dıřı



Odak içi



Odak

Geniř Açı

Takipsiz çekim

Sağlam bir üçayak ile takipsiz çekimde max. süre:

$$S = 1000 / F \times (\cos Y)$$

S = saniye cinsinden süre

F = mm cinsinden objektifin odak uzaklığı

Y = derece cinsinden hedefin dik açılığı (ufuktan yükseklik)

Dik Açıklık	24 mm	35 mm	50 mm	135 mm	200 mm
60-90°	75	53	40	14	9
30-60°	55	40	25	9	6
<30°	25	18	13	5	3



Ay – Venüs Yakınlaşması – 01.12.2008 – 17:14 – Mudanya – Bursa – 300 mm f/5.6 – ISO 400 – 1/5 sn.



Samanyolu – 16.06.2013 – 00:17 – Yeşildağ – Balıkesir – 17 mm f/2.8 – ISO 1600 – 10 x 30 sn.



Saklıkent'ten Samanyolu – 31.07.2014 – Saklıkent – Antalya – 8 mm balıkgözü lens f/3,5 – ISO 1600 – 30 sn.



Yenice Şelalesi Üzerinde Samanyolu - 26.06.2014 – Tırnova – MKP - Bursa – 17 mm f/2.8 – ISO 1600 – 30 sn.



C/2011 L4 PanStarrs - 20.03.2013 - Mudanya – Bursa – 300 mm f/5,6 – ISO 400 – 15 sn.



Perseid 2013 – 13.08.2013 – 23:09 – Saklıkent – Antalya – 8 mm balıkgözü lens f/3,5 – ISO 1600 – 30 sn.



Perseid 2010 - 13.08.2010 – Tirnova – MKP - Bursa – 17 mm f/2.8 – ISO 1600 – 30 sn.



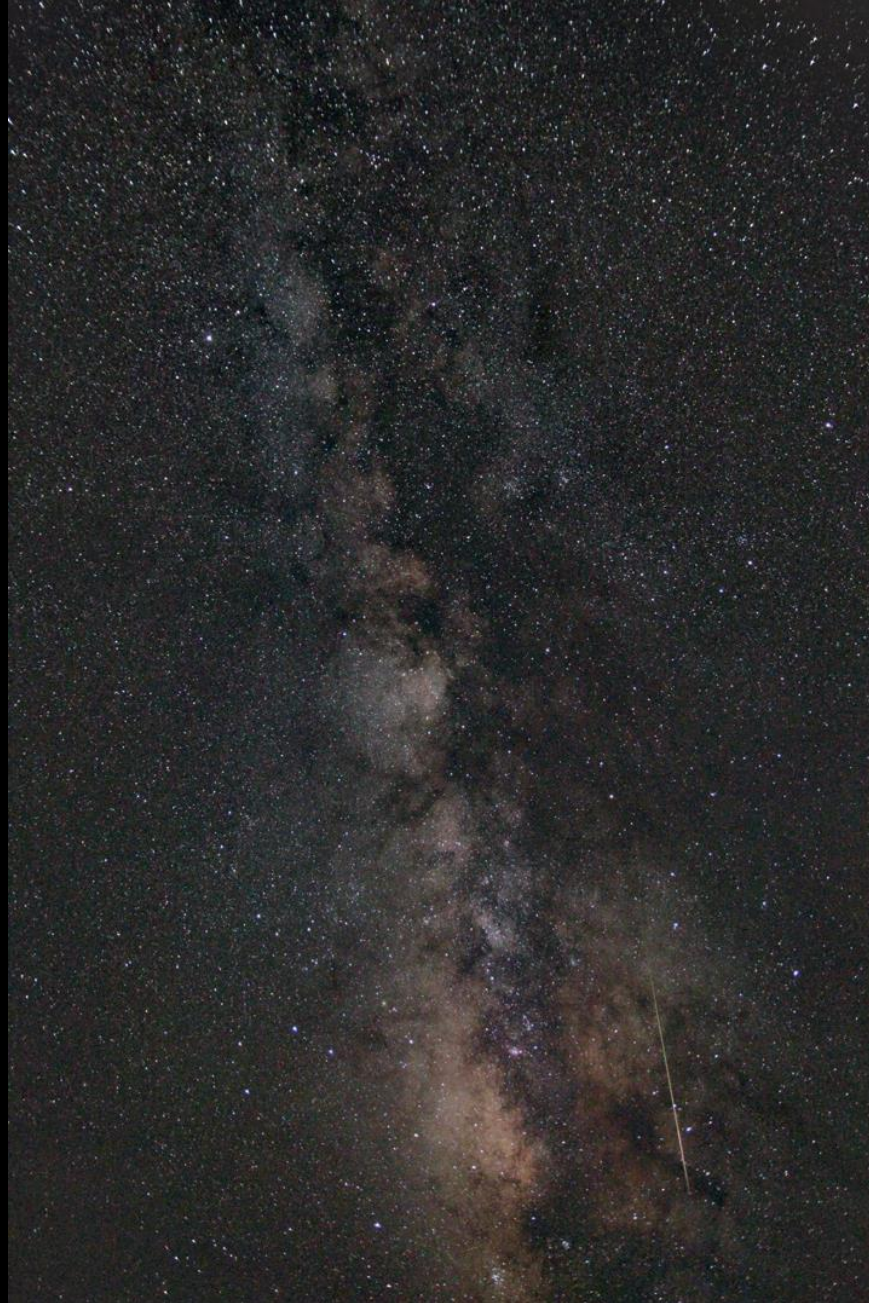
Perseid - 2009 - 13.08.2009 – 01:52 – Mudanya – Bursa – 17 mm f/3.2 – ISO 800 – 27 sn.



Perseid 2014 - 13.08.2014 - Kirazlı – Uludağ – Bursa – 8 mm balıkgözü lens f/3,5 – ISO 400 – 15 sn.



Perseid 2014 - 13.08.2014 - Kirazlı – Uludağ – Bursa – 8 mm balıkgözü lens f/3,5 – ISO 400 – 15 sn.



Perseid 2015 - 12.08.2015 - Kendir – Keles – Bursa – 17 mm f/2,8 – ISO 3200 – 30 sn.



Perseid 2015 - 12.08.2015— Kendir - Keles — Bursa — 17 mm f/2,8 — ISO 3200 — 30 sn.



Leonid2015 - 18.11.2015 – Fatintepe - Uludağ – Bursa – 24 mm f/3,5 – ISO 12800 – 13 sn.



Geminid 2015 - 14.12.2015 – Hüseyinalan - Uludağ – Bursa – 17 mm f/3,2 – ISO 3200 – 25 sn.



Geminid 2015 - 14.12.2015 – Mudanya – Bursa – 8 mm f/3,5 Balıkgözü – ISO 3200 – 30 sn.



Bir Günlük Ay – 27.03.2009 – 19:10 – Mudanya – Bursa – 300 mm f/5.6 – ISO 800 – 1.6 sn.



Aladağlar' dan Samanyolu – 12.07.2015 – Aladağlar – Niğde – 17 mm f/2.8 – ISO 3200 – 30 sn.



Aladağlar' dan Samanyolu – 14.07.2015 – Aladağlar – Niğde – 17 mm f/2.8 – ISO 3200 – 30 sn.



18.Gökyüzü Gözlem Şenliği – 20.08.2015 – Saklıkent – Antalya – 24 mm f/3.5 – ISO 10000 – 15 sn.



Karlı Ay – 13.01.2017 – 08:35 – Mudanya – Bursa – 300 mm f/5.6 – ISO 100 – 1/50 sn.



Kocayayla'dan Avcı - Ülker – 02.02.2017 – Kocayayla – Bursa – 14 mm f/2.8 – ISO 6400 – 30sn.

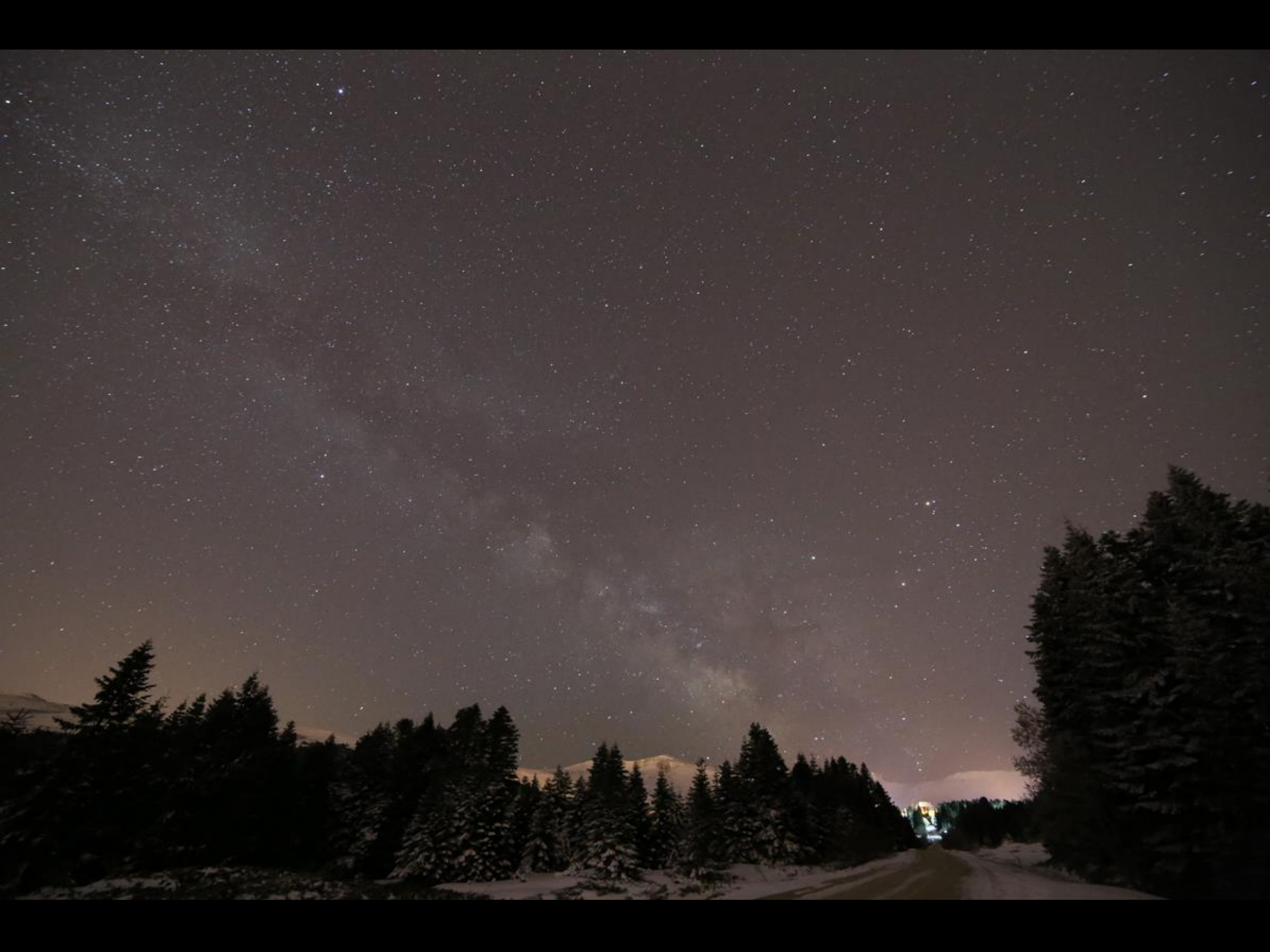


Aladağlar' dan Samanyolu – 23.07.2017 – Aladağlar – Niğde – 14 mm f/4.0 – ISO 6400 – 30 sn.



Aladağlar' dan Samanyolu – 24.07.2017 – Aladağlar – Niğde – 14 mm f/4.0 – ISO 6400 – 30 sn.







Samanyolu – 16.06.2013 – 00:56 – Yeşildağ – Balıkesir – 17 mm f/2.8 – ISO 1600 – 10 x 30 sn.

A long-exposure photograph of a starry night sky. The Milky Way galaxy is visible as a bright, hazy band of light stretching across the upper half of the frame. Numerous individual stars are visible as small, sharp points of light. In the lower right foreground, the dark silhouettes of two people standing and looking up at the sky are visible. The bottom of the image shows a dark landscape with some distant, out-of-focus city lights or lights from a nearby town.

Yıldız İzleri

Startrails



Polaris - Yıldız izi - 16.04.2004 - 21:40 – Karacabey – Yeniköy - Bursa – 50 mm f/1.8 – ISO 800 – 12 dk.



13.08.2010 – 02:07 – 04:46 – Tirnova - MKP - Bursa - 17 mm f/2.8 - ISO 1600 – 253x34 sn. Top. 143 dk.



22.08.2010 – 23:47 – 04:11 – Mudanya - Bursa - 17 mm f/2.8 - ISO 200 – 486x30 sn. Top. 263 dk.



23.04.2011 – 00:45 – 04:11 – Mudanya - Bursa - 17 mm f/3.5 - ISO 800 – 412x30 sn. Top. 206 dk.



01.05.2011 – 04:11 – 05:03 – Tirnova - Bursa - 17 mm f/3.5 - ISO 1600 – 96 x 30 sn. Top. 48 dk.



Perseid Meteor Yağmuru – 04:24 – 04:47 – 13.08.2011 – Mudanya – Bursa – 17 mm f/3.2 – ISO 800 – 99 x 13 sn.



25.02.2012 – 20:43 – 22:24 – Gökbel - Marmaris - 17 mm f/3.2 - ISO 800 – 184 x 30 sn. Top. 101 dk.



25.02.2012 – 22:51 – 00:39 – Gökbel - Marmaris - 17 mm f/3.2 - ISO 800 – 197 x 30 sn. Top. 108 dk.



13.10.2012 – 21:33 – 01:01 – Göltürkbükü - Bodrum - 17 mm f/3.2 - ISO 800 – 381 x 30 sn. Top. 190 dk.



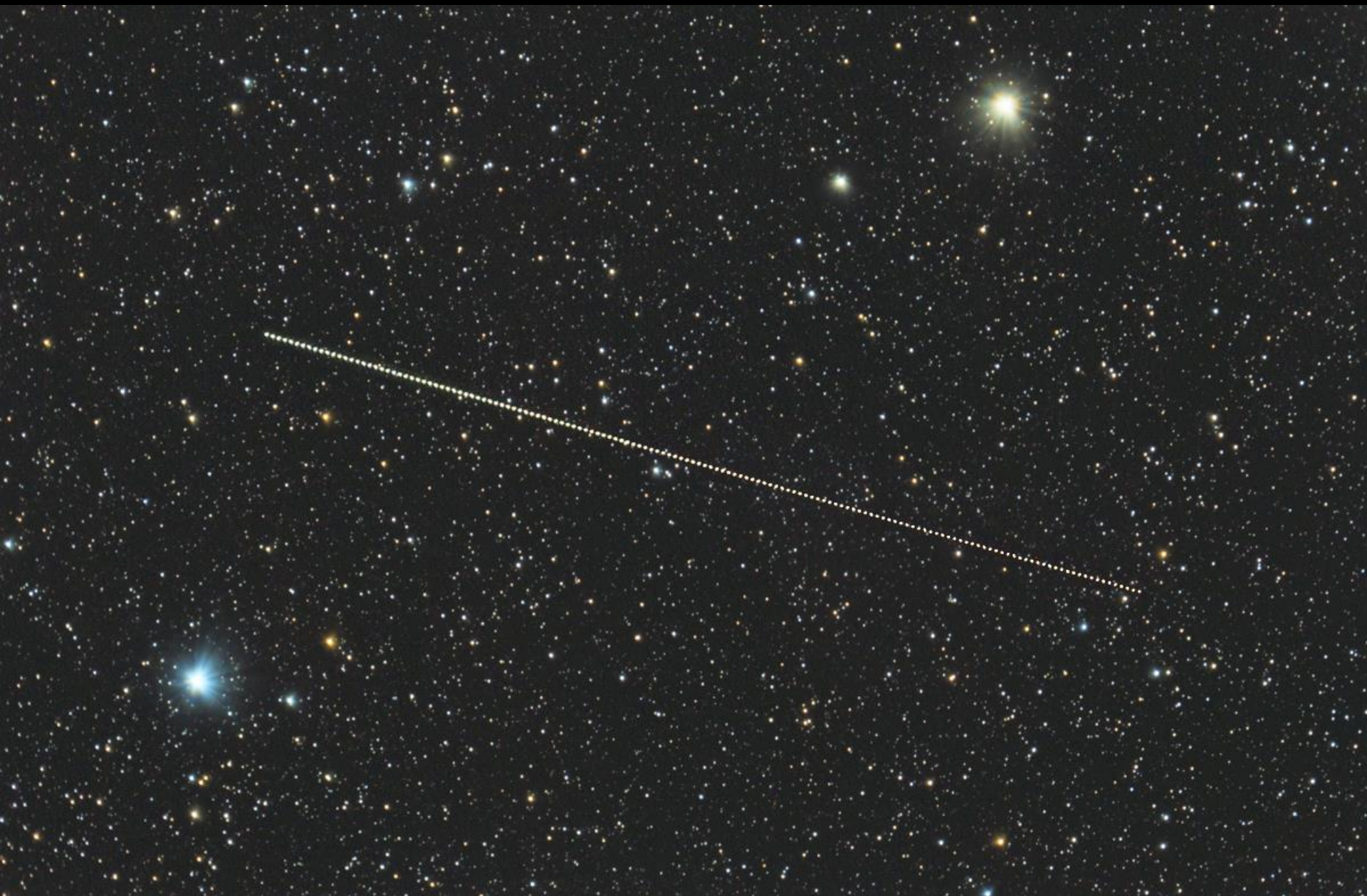
14.10.2012 – 01:35 – 05:55 – Göltürkbükü - Bodrum - 17 mm f/3.2 - ISO 800 – 475 x 30 sn. Top. 237 dk.



Venüs – Jüpiter – Merkür - 26.05.2013 – Mudanya - Bursa - 214 mm f/5 - ISO 800 – 34 x 1.4 sn.




Io trails - 22.12.2013 – Mudanya - Bursa - 152 mm f/4,85 – 45 x 30sn.



Asteroid - 3122 Florence - 03.09.2017 – Mudanya - Bursa - 152 mm f/4,85 – 293 x 20sn.



Asteroid - 3122 Florence - 03.09.2017 – Mudanya - Bursa - 152 mm f/4,85 – 293 x 20sn.



Uydu İzleri



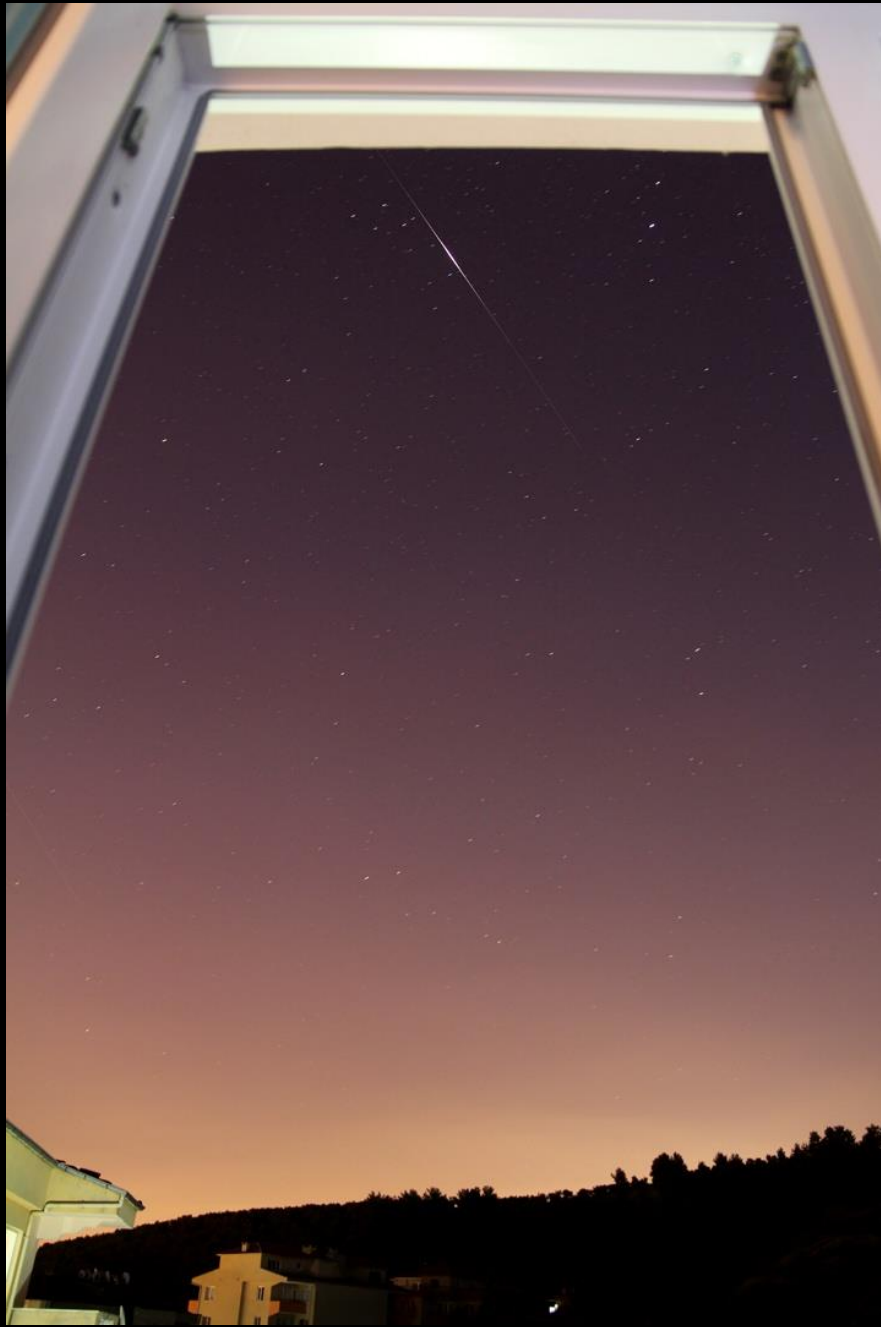
ISS geiři – 16.03.2009 – 19:10 – Kapanca – Mudanya – Bursa – 17 mm f/2.8 – ISO 400 – 30 sn.



ISS geiři – 27.08.2011 – 21:21 – Alaam – Keles – Bursa – 17 mm f/2.8 – ISO 1600 – 30 sn.



İridium (12) Parlaması – 17.05.2008 – 04:12 – Mudanya – Bursa – 21 mm f/3.2 – ISO 400 – 31 sn.



İridium (37) Parlamaşı – 24.09.2011 – 20:03 – Mudanya – Bursa – 17 mm f/3.5 – ISO 400 – 46 sn.



İridium (35) Parlamaşı – 06.06.2013 – 23:02 – Mudanya – Bursa – 40 mm f/4 – ISO 800 – 32 sn.



İridium (63) Parlaması – 21.07.2008 – 03:13 – Mudanya – Bursa – 70 mm f/4.5 – ISO 400 – 167 sn.



İridium (57 – 94 - 33) Parlamalari – 28.06.2008 – 22:29 – 22:16 – 22:39 – Mudanya – Bursa
21 mm f/3.2 – ISO 400 – 43 – 45 - 34 sn. Top: 2 dk.



İridium (60) Parlaması – 19.11.2016 – 19:14 – Mudanya – Bursa – 70 mm f/5.0 – ISO 1600 – 65 sn.

www.heavens-above.com

Teleskop ile kisa poz süreli çekimler





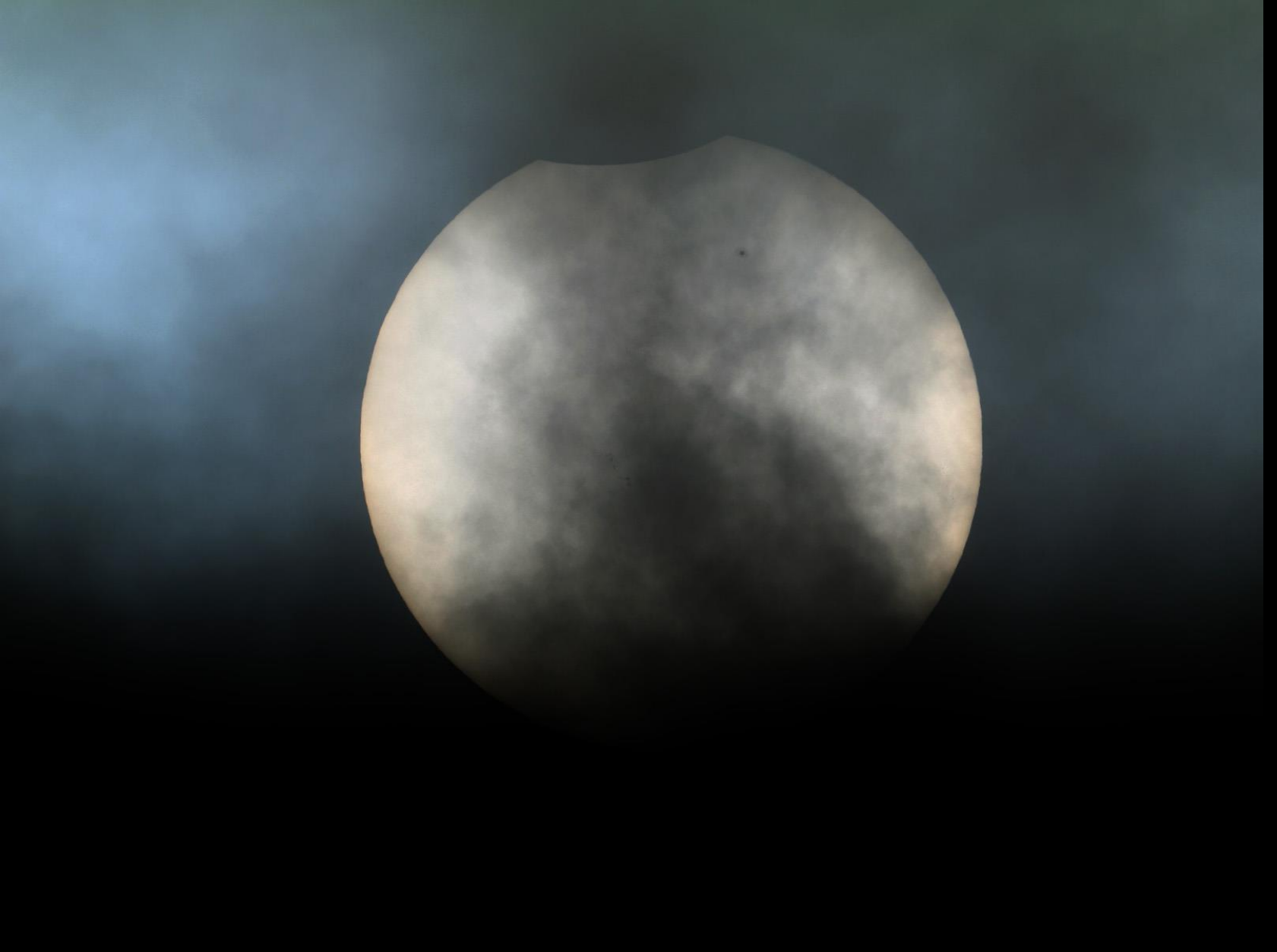
Earthshine— 28.03.2009 – 19:39 – Mudanya – Bursa – 154 mm f/4.9 – ISO 800 – 2 sn.



İki Günlük Ay – 23.04.2012 – 20:58 – Mudanya – Bursa – 80 mm f/7.5 – ISO 200 – 0,3 sn.



Parçalı Güneş Tutulması – 31.05.2003 – 06:28 – Tophane – Bursa – 60 mm f/11.7 – ISO 200 – 1/500 sn.



Parçalı Güneş Tutulması – 04.01.2011 – 11:58 – Mudanya – Bursa – 200 mm f/5.1 – ISO 100 – 1/4000 sn.



11:16

Güneş Tutulması – 20.03.2015 – 11:16 – Mudanya – Bursa – 152 mm f/4.85 – ISO 100 – 1/500 sn.



11:16

21.06.2020 – 07:53 - 09:19

02.08.2027 – 11:27 - 13:51

01.06.2030 – 06:54 – 08:03 – 09:21 Halkalı Tutulma

20.03.2034 – 11:49 - 14:04

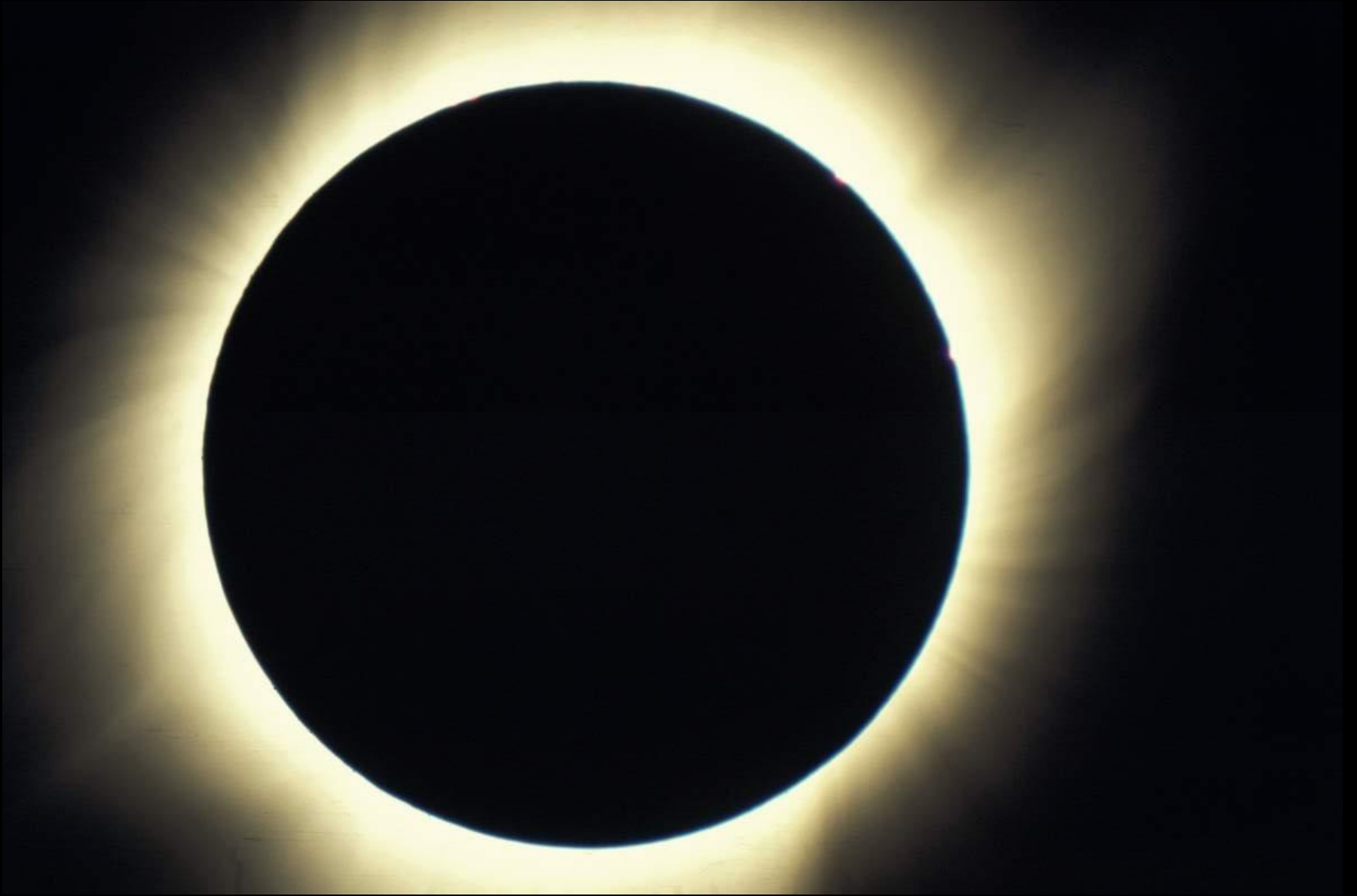
12.09.2053 – 10:30 - 13:05



Tam Güneş Tutulması - 29.03.2006 – 12:39 – 15:12 - Side – Titreyengöl - Antalya – 60 mm f/11.7 – ISO 50



Tam Güneş Tutulması - 29.03.2006 – 13:55 – Side – Titreyengöl - Antalya – 60 mm f/11.7 – ISO 50 - A



Tam Güneş Tutulması - 29.03.2006 – 13:56 – Side – Titreyengöl - Antalya – 60 mm f/11.7 – ISO 50 - A



Tam Güneş Tutulması - 29.03.2006 – 13:58 – Side – Titreyengöl - Antalya – 60 mm f/11.7 – ISO 50 - A



30.04.2060 – 12:24 - 14:55

03.09.2081 – 09:53 - 12:18

21.04.2088 – 12:38 - 15:22



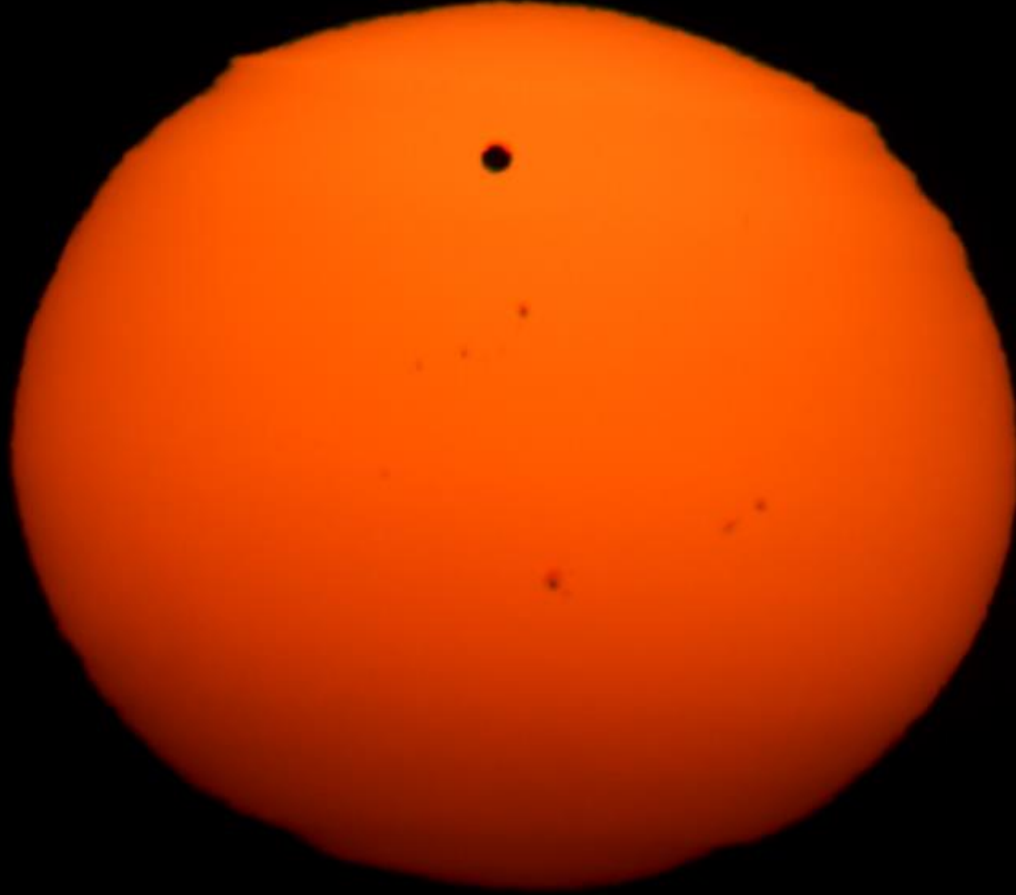
Venüs Geçiři - 08.06.2004 – 09:37 – Altınova – Ayvalık - Balıkesir – 60 mm f/11.7 - ISO 100 – 1/500 sn.



Venüs Geçişi - 08.06.2004 – 13:15 – Havran İvrindi arası - Balıkesir – 60 mm f/11.7 - ISO 100 – 1/500 sn.



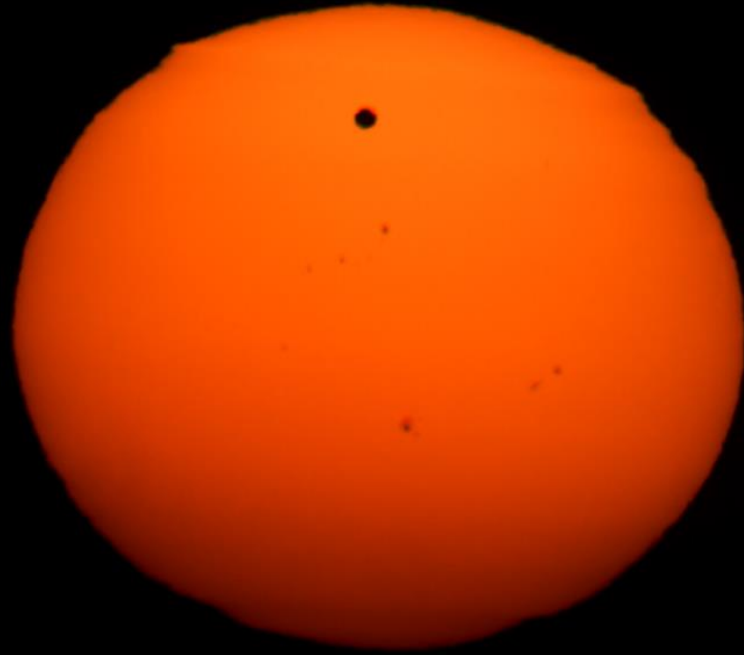
Venüs Geçişi - 08.06.2004 – 14:00 – Havran İvrindi arası - Balıkesir – 60 mm f/11.7 - ISO 100 – 1/500 sn.



Venüs Geçişi – 06.06.2012 – 05:44 – TUG - Saklıkent – Antalya – 152 mm f/4.85 – ISO 100 – 1/13 sn.



Venüs Geçişi – 06.06.2012 – TUG - Saklıkent – Antalya – 152 mm f/4.85 – ISO 100 – 1/640 sn.



11.12.2117 – 02:03 - 07:43

08.12.2125 – 15:20 - 20:40

11.06.2247 – 11:46 - 17:17

09.06.2255 – 03:10 - 11:10

Merkür Geçişi – 09.05.2016 – 14:15 – Mudanya – Antalya – 152 mm f/4.85 – 18 fps.



Merkür Geçişi – 09.05.2016 – 14:52 – Mudanya – Antalya – 152 mm f/4.85 – 18 fps.

MERKÜR GECİSİ - 09 MAYIS 2016

14:12:51

14:12:53

14:13:27

14:13:55

14:14:11

14:14:28

14:14:47

14:15:08

14:15:23

14:15:41

14:16:27

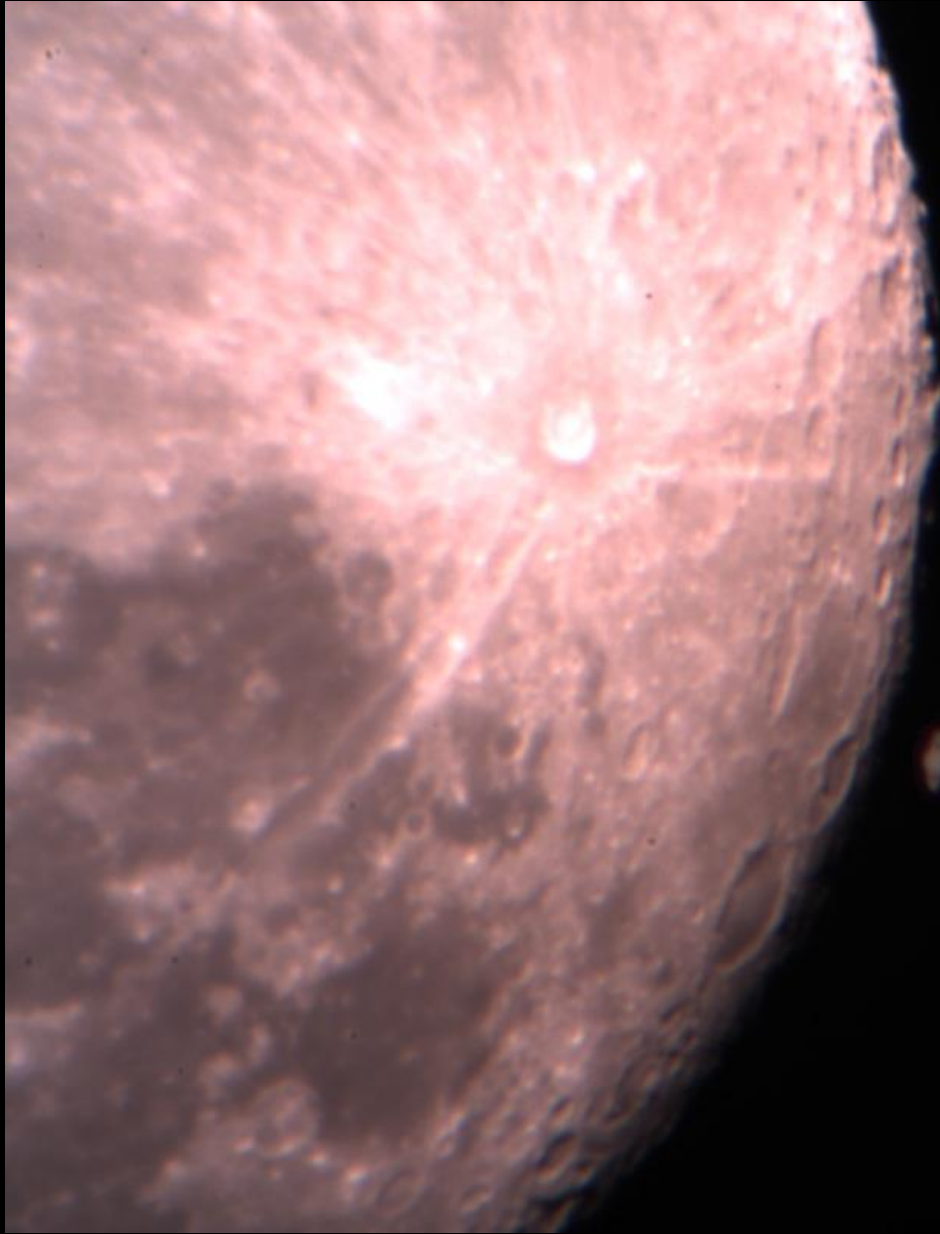
UGUR IKIZLER © MUDANYA - BURSA 2016

11.11.2019 14:35 – 20:03

13.11.2032 08:41 – 13:06

07.11.2039 09:18 – 12:15

07.05.2049 14:02 – 20:40



Ay – Satürn örtmesi - 02.03.2007 – 04:52 – Kirazlı – Uludağ – Bursa – 60 mm f/11.7 – ISO 100 – 1 sn.



Ay – Mars örtmesi - 24.12.2007 – 06:04 – Kirazlı – Uludağ – Bursa – 60 mm f/11.7 – ISO 200 – 1/160 sn.



Ay Tutulması - 31.12.2009 – 20:38 – Mudanya – Bursa – 150 mm f/7.9 – ISO 200 – 1/80 sn.



Ay Tutulması - 21.02.2008 – 04:52 – Mudanya – Bursa – 150 mm f/8.3 – ISO 100 – 1 sn.



Güneş lekesi- 1339 – 05.11.2011 – 17:44 – Mudanya – Bursa – 80 mm f/7.5 – ISO 100 – 1/500 sn.



Earthshine – 29.01.2017 – Mudanya – Bursa – 152 mm f/4.85 – ISO 200 – 1/50 sn.



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_MKP – Bursa – 152 mm – f/4.85 – ISO 200 – 1/5 sn.



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_ MKP – Bursa – 152 mm – f/4.85 – ISO 200 – 1/100 sn.



Parçalı Ay Tutulması - 16.09.2016 – 22:14 – Mudanya – Bursa – 152 mm f/4.85 – ISO 100



Hilal Batımı - 23.08.2017 – Mudanya – Bursa – 152 mm f/4.85 – ISO 100

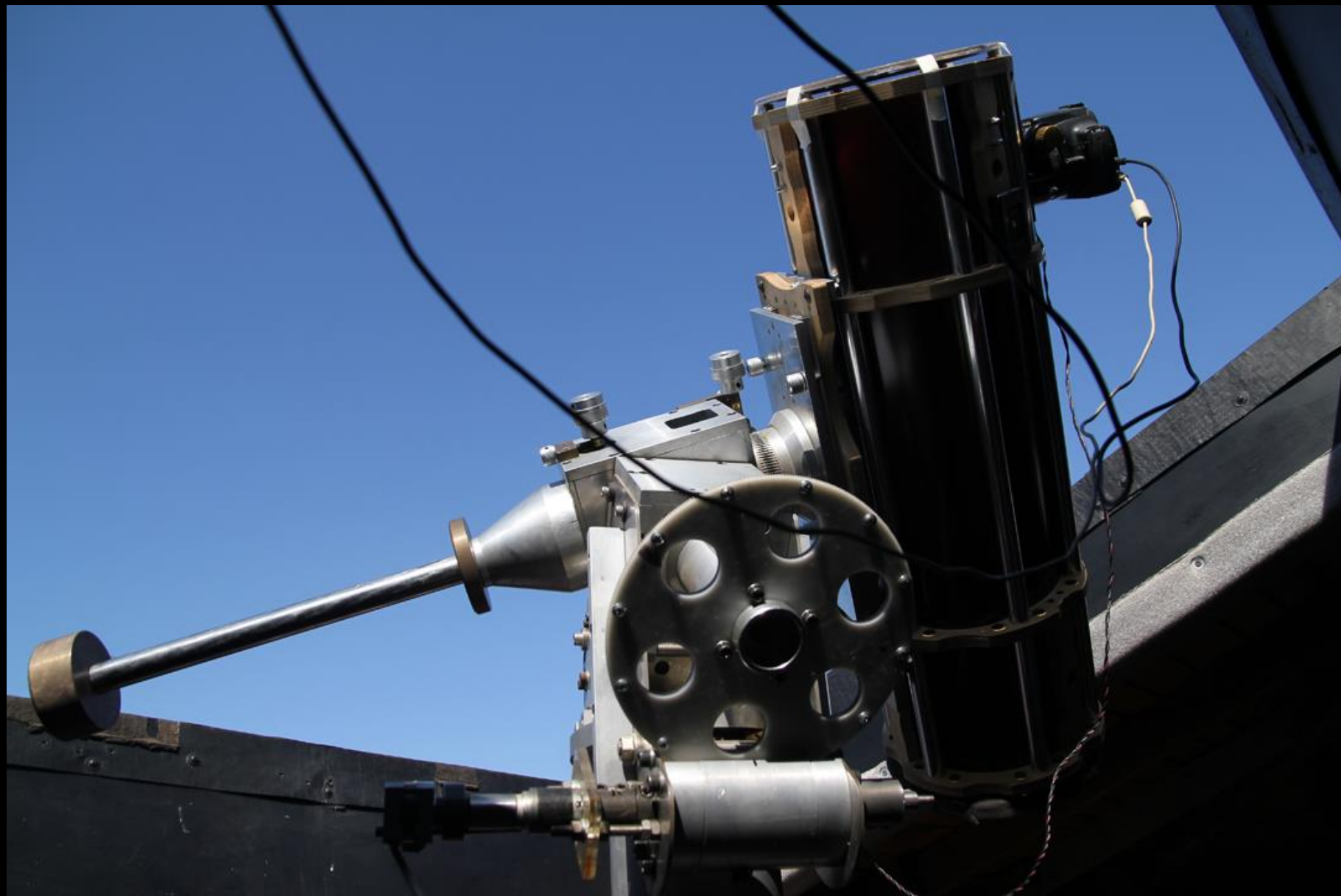


Gün batımı - 06.09.2017 -07.09.2017 – Mudanya – Bursa – 152 mm f/4.85 – ISO 100

- Kalibrasyon
- Hizalama
- İstifleme
- İşleme







Light

Flat

Dark

Bias





Images Plus
PixInsight

DSS (Deep Sky Stacker)

MaxIm DL

Fotoğraf makinesi lensleri ile
çekilmiş,
Kalibre edilmiş ve işlenmiş
fotoğraflar





Samanyolu – 27.07.2016 – Saklıkent – Antalya – 24 mm f/3,5 – ISO 4000 – 105 x 46 sn.



Yaz Üçgeni – Vega – Deneb - Altair – 29.07.2016 – Saklıkent – Antalya – 24 mm f/3,5 – ISO 6400 – 136 x 46 sn.



Rho Ophiuchus – 09.08.2013 – 23:09 – Saklıkent – Antalya – 120 mm f/4.0 – ISO 6400 – 74 x 30 sn.



Rho Ophiuchi – Mars - Satürn – 25.07.2016 – Saklıkent – Antalya – 40 mm f/5.6 – ISO 10000 – 37 x 30 sn.



Kuzey Amerika Bulutsusu NGC 7000 – 11.09.2016 – Mudanya – Bursa– 190 mm f/5.6 – ISO 800 – 175 x 60 sn. Top 175 dk.



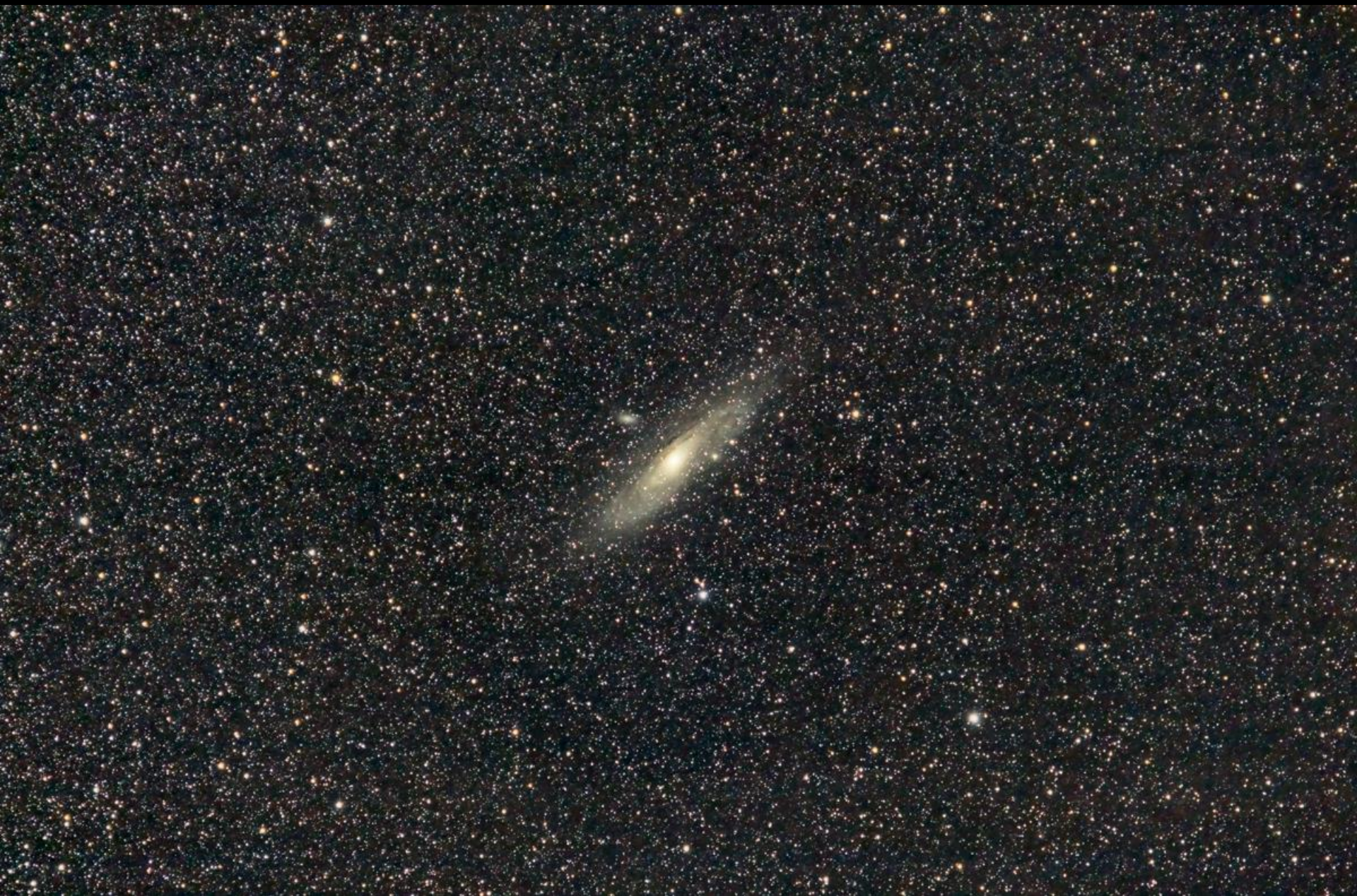
Holmes 17P ve Algol - 13.01.2008 – 23:51 – Mudanya – Bursa – 238 mm f/5.6 – ISO 800 – 64 x 30 sn. Top: 32 dk.



M8 – M20 – M21 - 07.02.2011 – Tutyeli - Uludağ – Bursa – 300 mm f/5.6 – ISO 1600 – 27 x 60 sn. Top: 27 dk.



Andromeda - M31 - 12.12.2010 – Mudanya – Bursa – 300 mm f/5.6 – ISO 1600 – 30 x 90 sn. Top: 45 dk.



M31 - 12.10.2017 – Mudanya – Bursa – 105 mm f/5.6 – ISO 800 – 51 x 152 sn. Top: 129 dk.



Avcı Takımı Yıldızı - 07.02.2016 – Mudanya – Bursa – 91 mm f/5.0 – ISO 2000 – 40 x 60 sn.



Avcının Kemerini - 09.02.2016 – Mudanya – Bursa – 190 mm f/5.0 – ISO 4000 – 165 x 30 sn. Top: 82,5 dk.



Orion Bulutsusu - 08.12.2010 – Mudanya – Bursa – 300 mm f/5.6 – ISO 800 – 30 x 90 sn. Top: 45 dk.



Ülker – M45 - 28.08.2011 – Alaçam – Keles – Bursa – 300 mm f/5.6 – ISO 1600 – 80 x 60 sn. Top: 80 dk.



04.06.2011



C/2014 Q1 Lovejoy - 18.01.2015 – Mudanya – Bursa – 300 mm f/5.6 – ISO 1600 – 53 x 40 sn.



C/2014 Q1 Lovejoy ve Ülker M45 - 23.01.2015 – Mudanya – Bursa – 53 mm f/5.0 – ISO 800 –
64 x 122 sn.



Mars – Satürn – Antares - 30.05.2016 – Uludağ – Bursa – 57 mm f/5.0 – ISO 5000 – 34 x 30 sn.



Sirius – Betelgeuse - Aldebaran – 22.01.2017 – Mudanya – Bursa – 35 mm f/5.0 – ISO 800 – 40 x 122sn.



Teleskop ile çekilmiş,
Kalibre edilmiş ve işlenmiş
fotoğraflar



M 13 - 28.06.2016 – Bursa – Mudanya – 152 mm f/4,85 – ISO 8000 – 69 x 20 sn. Top: 23 dk.



Andromeda – M31 - 10.10.2016 – Mudanya – Bursa – 152 mm f/4,85 – ISO 6400 – 84 x 47 sn. Top: 66 dk.



Bode – Puro Gökadası M81 – M82 - 24.03.2012 – Mudanya – Bursa – 152 mm f/4.85 – ISO 1600 – 47 x 60 sn. Top: 47 dk.



M 51- Girdap Gökadası - 17.05.2012 – Mudanya – Bursa – 152 mm f/4.85 – ISO 1600 – 43 x 60 sn. Top: 43 dk.



Leo Triplet - 30.04.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 63 x 30 sn. Top: 31 dk.



M 101 Fırıldak – 10.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 72 x 30 sn. Top: 36 dk.



M 57 – 09.06.2012 – Okyanus Koleji – Avcılar – İstanbul – 400 mm f/8 – ISO 1600 – 20 x 30 sn. Top: 10 dk.



Double Cluster (NGC 869 – NGC 884) – 10.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 –
102 x 30 sn. Toplam 51 dk.



M 27 Dumbbell – 02.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 5000 – 43 x 30 sn. Top: 21 dk.



M 8 Lagün Bulutsusu – 15.07.2012 – Tirnova – MKP – Bursa – 152 mm f/4.85 – ISO 1600 – 41 x 60 sn.
Top: 41 dk.



Veil Bulutsusu Batı (NGC 6960) – 11.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 50 x
30 sn. Top: 25 dk.



Veil Bulutsusu Doğu (NGC 6992) – 11.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 54 x 30 sn. Top: 27 dk.



Doğu ve Batı Veil Bulutsusu – 07.08.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 110 x 30 sn.
Top: 55 dk.



M 33 Triangulum Gökadası – 08.11.2013 – Mudanya – Bursa – 152 mm f/4.85 – ISO 1600 – 51 x 30 sn.
Top: 25,5 dk.





Elbise Askısı – 12.07.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 53 x 30 sn. Toplam 26 dk.



Başak Süper Kümesi – 28.04.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 62 x 30 sn. Toplam 31 dk.



C/2013 US 10 CATALİNA Kuyrukluıldızı – 09.01.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 23 x 30 sn.



Atbaşı ve Alev Bulutsusu - 07.02.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 51 x 30 sn. Top: 25,5 dk.



Orion Bulutsusu (M 42) – 09.01.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 8000 – 45 x 30 sn.



Ülker – M45 – 02.10.2016 – Mudanya – Bursa – 152 mm f/4.85 – ISO 5000 – 120 x 30 sn.



41P Tuttle – Giacobini – Kresak M97 – M108 - 23.03.2017 - Mudanya – Bursa – 152 mm f/4,85 – ISO 6400 – 132 x 33 sn.



Webcam ile Gezegen fotografçılığı

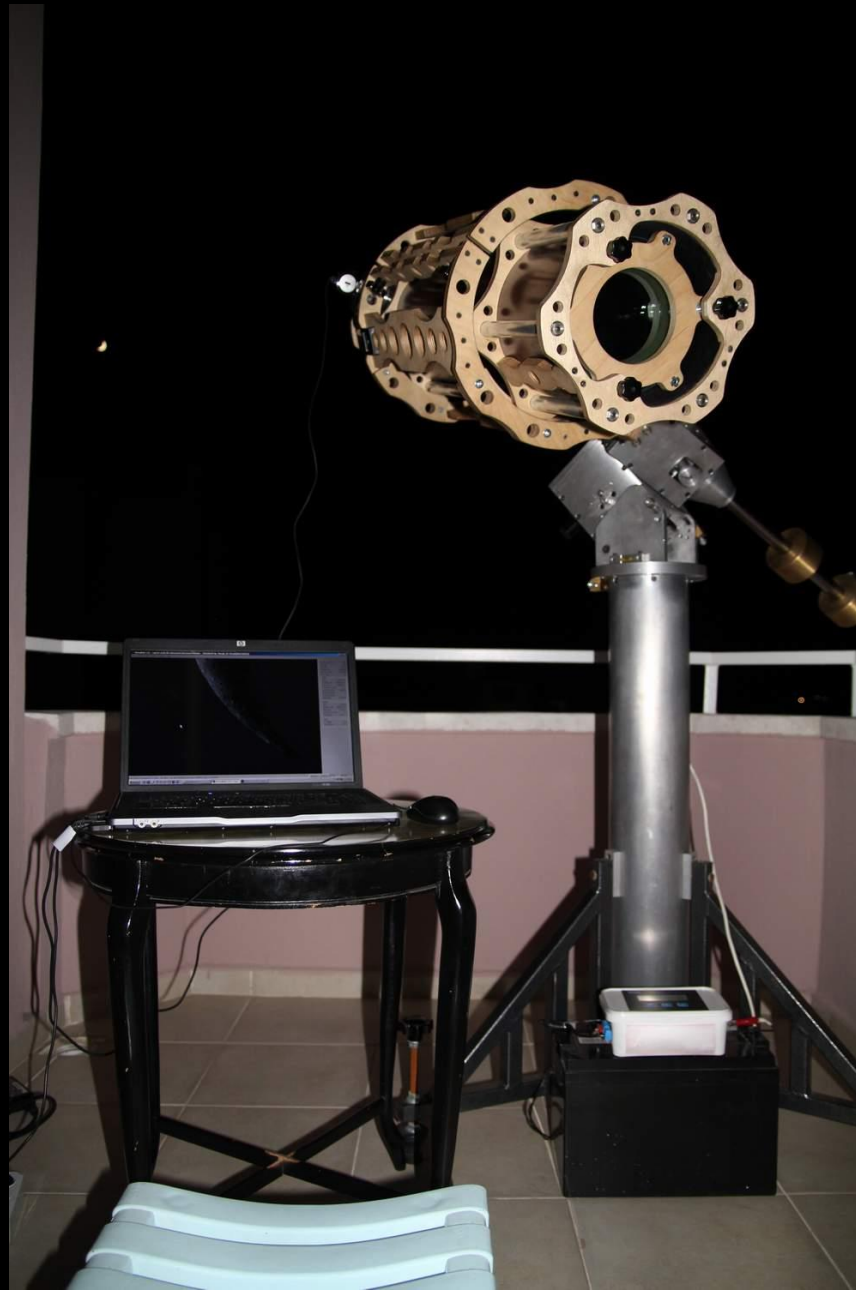
Philips SPC 900 NC
Chameleon CMLN-13S2M

RegiStax 6

Microsoft ICE

Astra Image 3.0 Pro

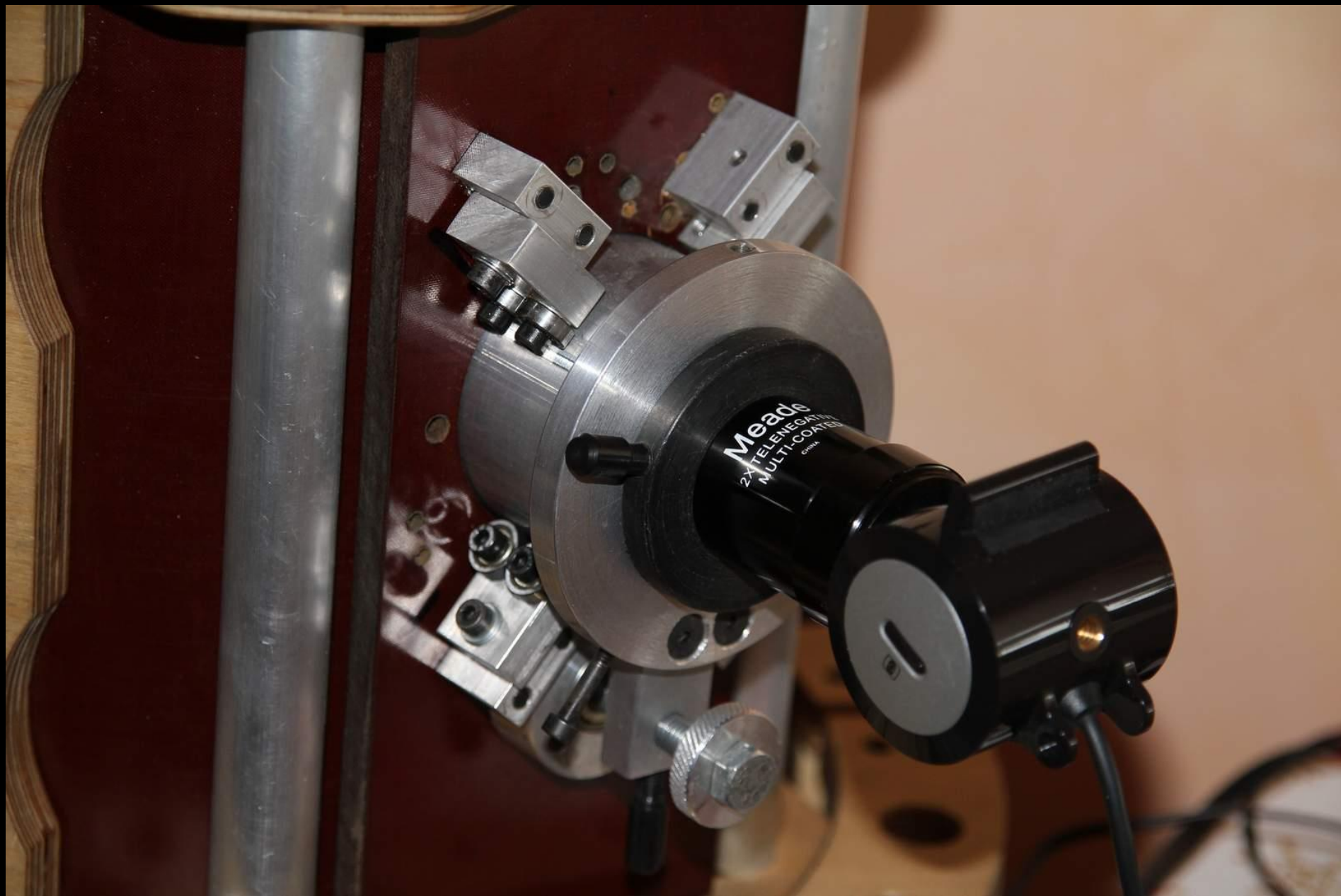
Fire Capture



El yapımı kundak – El yapımı 200 mm f/5.1 teleskop – Webcam - Laptop



Philips SPC 900 NC



Philips SPC 900 NC - 2 x Barlow lens



Jupiter - 07.11.2010 – Mudanya – Bursa – 200 mm f/5.1 – 2 x Barlow – 289 frame – 10 fps



Ganimes Gölgesi - 21.11.2010 – Mudanya – Bursa – 200 mm f/5.1 – 2 x Barlow – 46x60 sn – 10 fps

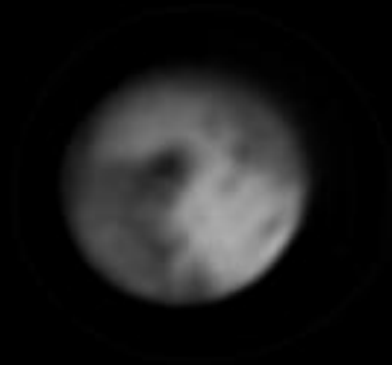




Satürn - 01.04.2014 – Mudanya – Bursa – 152 mm f/4.85 – 2 x Barlow – 800 frame – 24 fps



Satürn - 29.05.2016 – Mudanya – Bursa – 152 mm f/4.85 – 5 x powermate – 1000 frame – 14 fps



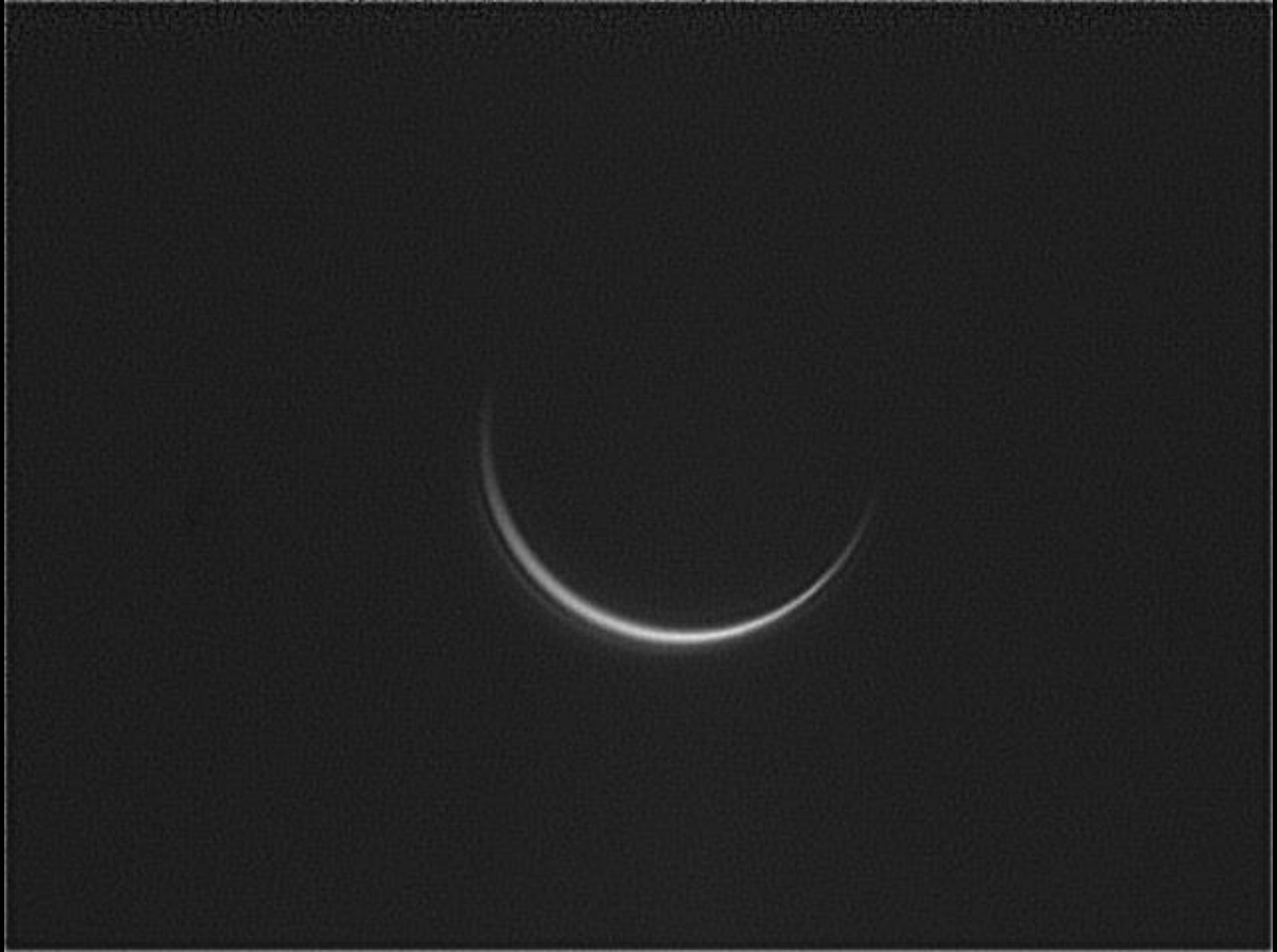
Mars - 17.06.2016 – Mudanya – Bursa – 152 mm f/4.85 – 5 x Powermate – 1000 frame – 20 fps



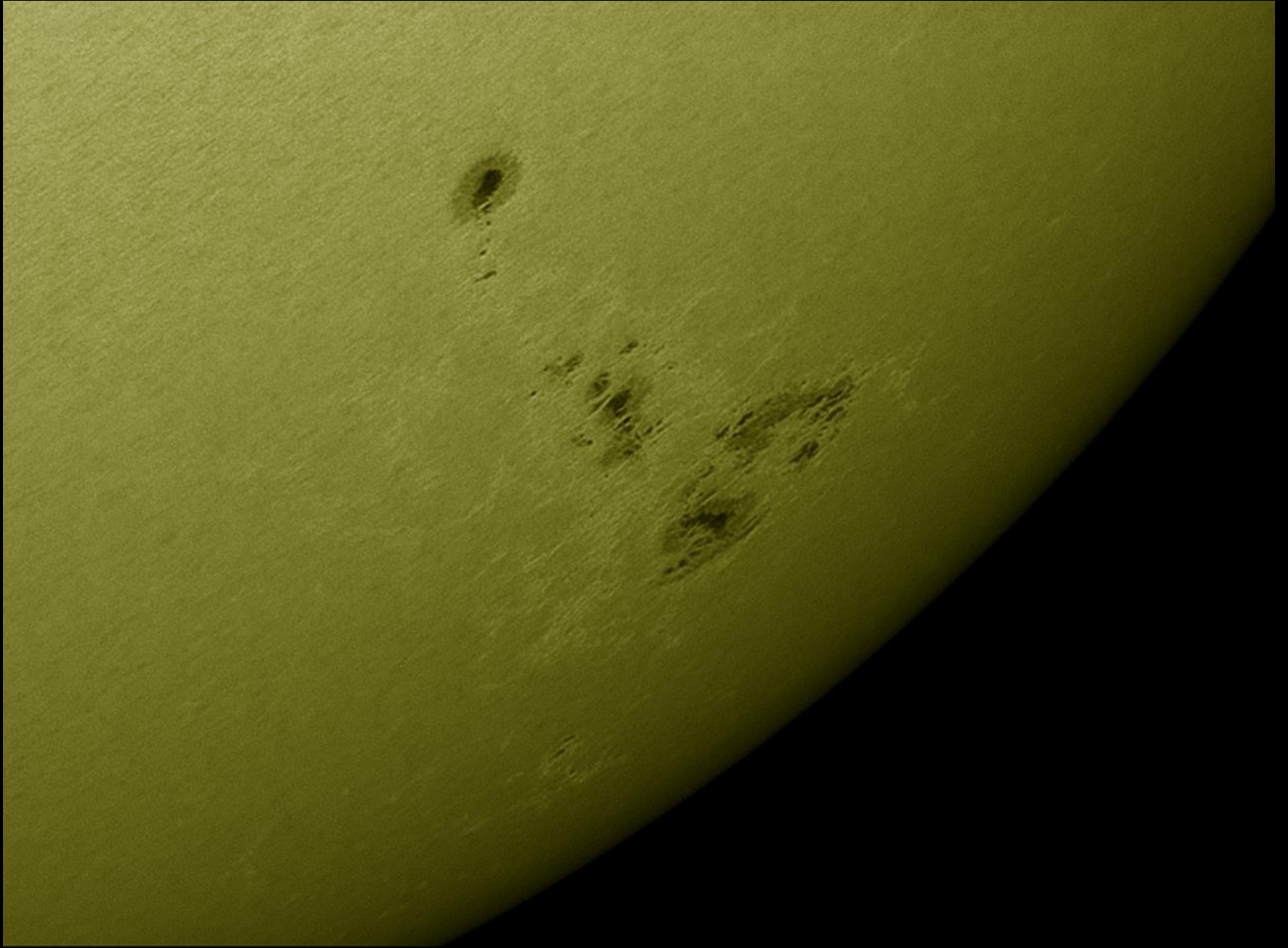
Venüs - 21.11.2010 – Mudanya – Bursa – 200 mm f/5.1 – 2 x Barlow – 130 frame – 10 fps



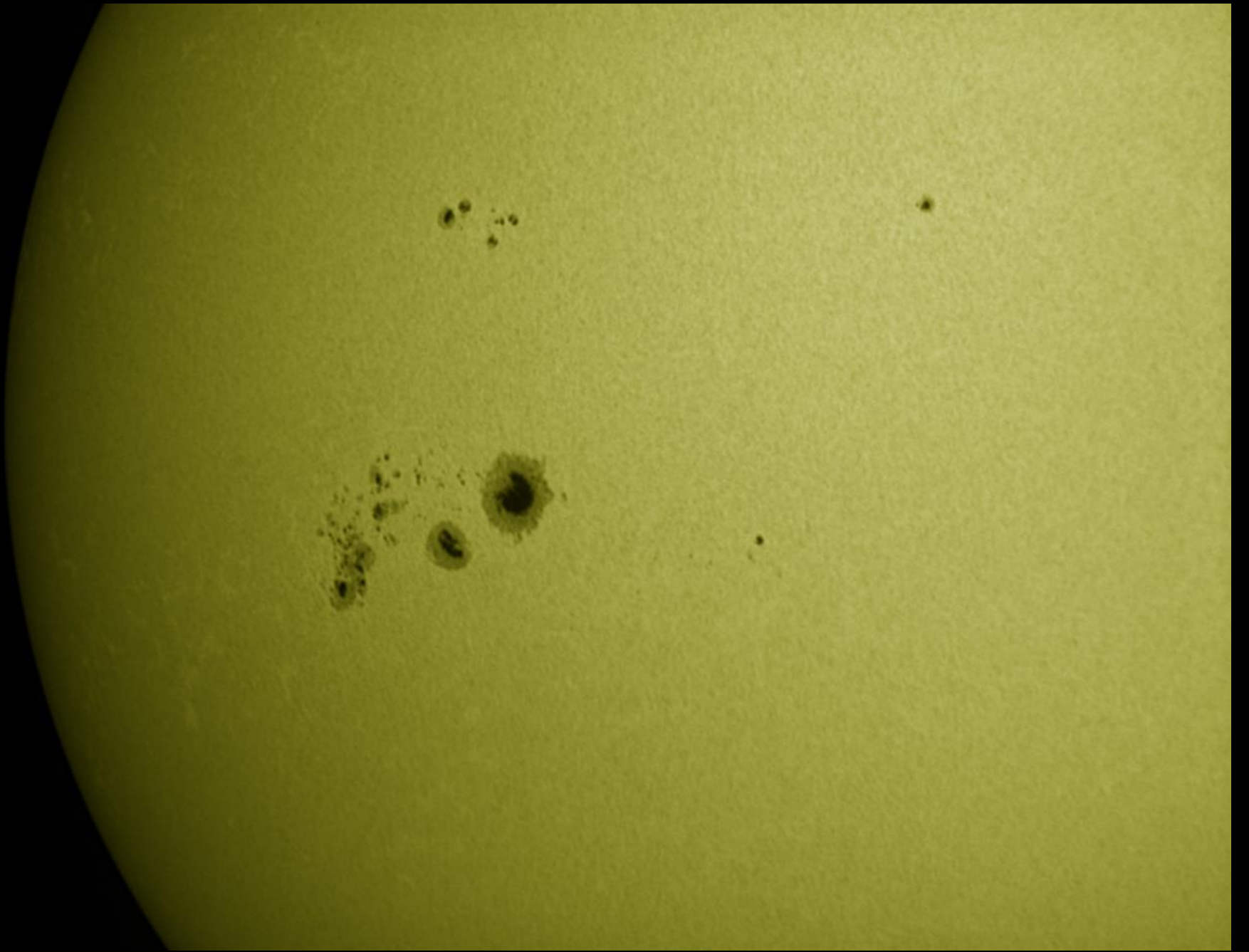
Venüs - 26.04.2012 – Mudanya – Bursa – 203 mm f/10 – 5 x Powermate 800 frame – 10 fps



Venüs - 26.05.2012 – Mudanya – Bursa – 152 mm f/4,85 – 5 x PowerMate - 450 frame – 10 fps



Güneş Lekeleri AR1895 – AR1897 - 12.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 2xBarlow - 500
frame – 18 fps



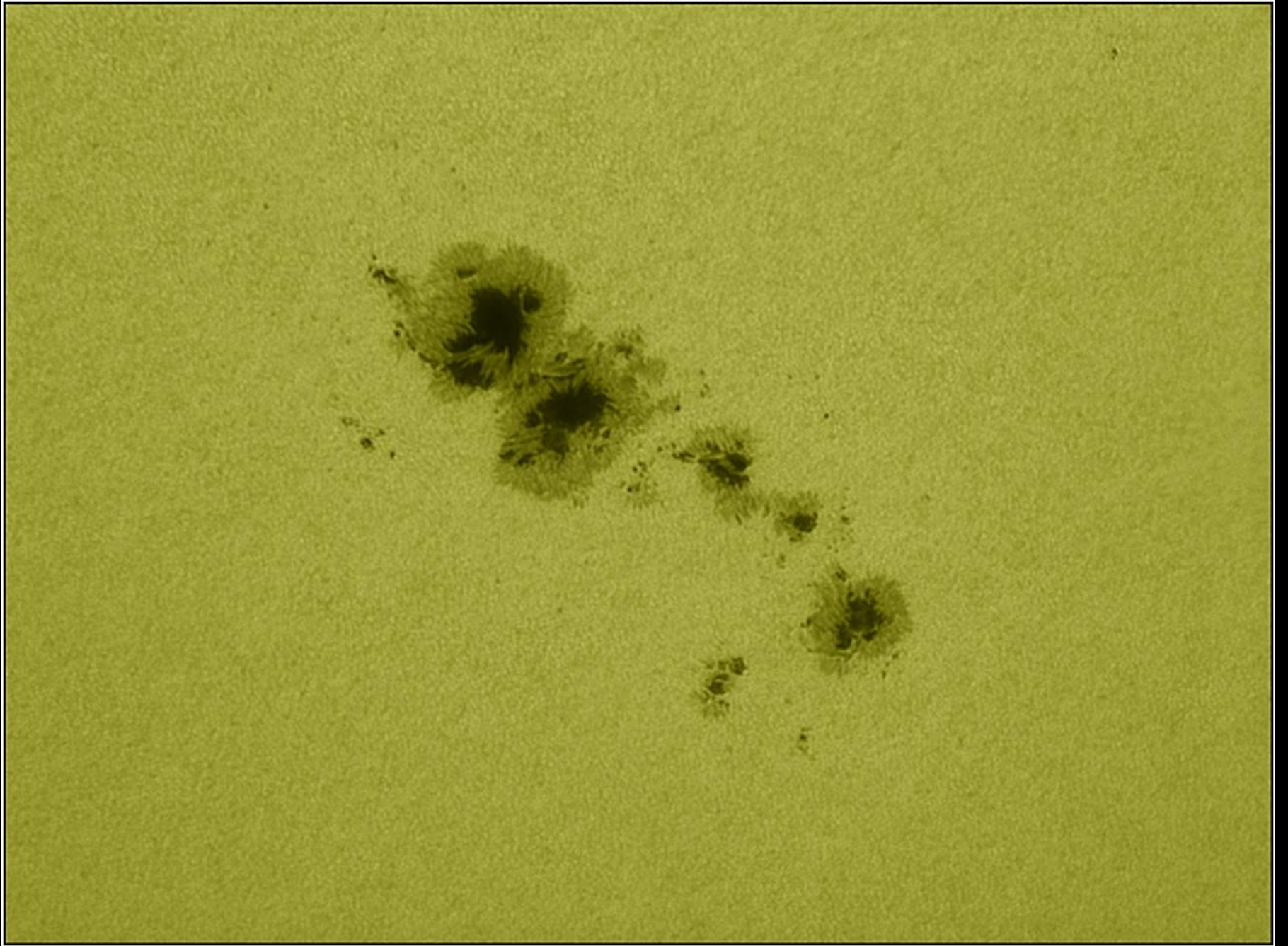
Güneş lekesi – AR1944 – 05.01.2014 – 13:43 – Mudanya – Bursa – 152 mm f/4.85 – Fps 18 – 600 frame



Güneş lekesi – AR1967 – AR1968 – 04.02.2014 – 16:57 – Mudanya – Bursa – 152 mm f/4.85 – Fps 18 – 20 frame



Güneş lekesi – AR2671 ve ISS Transit – 18.08.2017 – 19:28 – MKP – Bursa – 152 mm f/4.85 – Fps 18 – 20 frame



Güneş lekesi – AR1967 – 04.02.2014 – 14:11 – Mudanya – Bursa – 152 mm f/4.85 – Fps 18 – 500 frame



Güneş lekeleri – 14.05.2015 – 14:11 – Mudanya – Bursa – 152 mm f/4.85 – 5 x Fps 18 – 800 frame



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_MKP – Bursa – 80 mm – f/7.5 – 40 frame – 10 fps



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_MKP – Bursa – 80 mm – f/7.5 – 40 frame – 10 fps



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_MKP – Bursa – 80 mm – f/7.5 – 40 frame – 10 fps



Ay – Jüpiter örtmesi - 15.07.2012 – Tırnova_MKP – Bursa – 80 mm – f/7.5 – 40 frame – 10 fps



Ay – Aldebaran örtmesi - 28.04.2017 – Mudanya – Bursa – 152 mm – f/4.85



Apenin, Huygens, Bradley Dağları - 12.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 5xPowermate 700 frame – 18 fps



Plato Krateri - 12.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 5xPowermate 700 frame – 18 fps



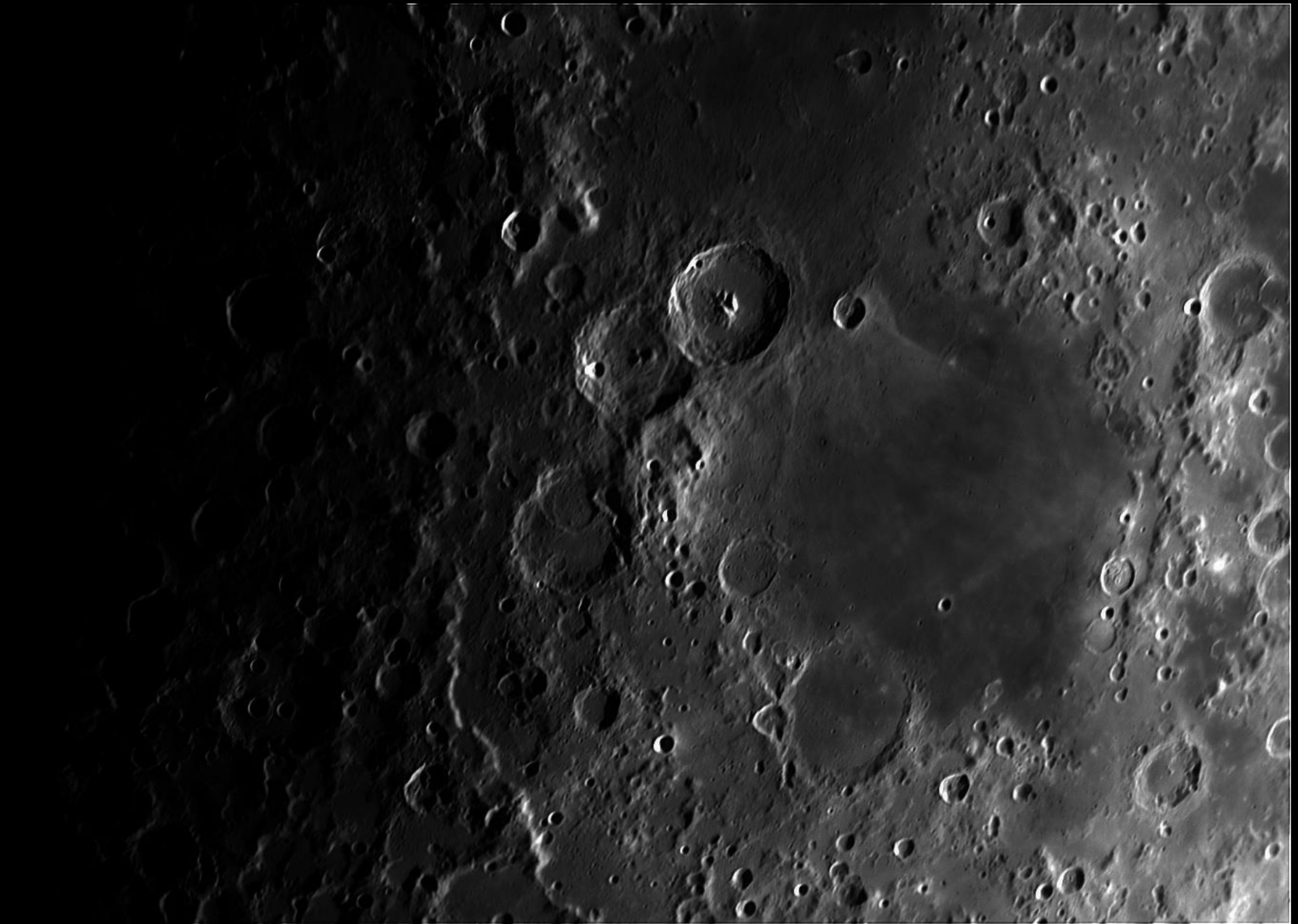
Kopernik Krateri - 12.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 5xPowermate 700 frame – 18 fps



Düz Duvar (gündoğumu) - 12.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 5xPowermate 700 frame – 18 fps



Düz Duvar (gün batımı) - 08.07.2015 – Mudanya – Bursa – 152 mm f/4,85 – 5xPowermate 500 frame – 18 fps



Nektar Denizi- 09.11.2013 – Mudanya – Bursa – 152 mm f/4,85 – 2xBarlow 1000 frame – 18 fps



[Hilal](#) - 14.12.2015 – Mudanya – Bursa – 152 mm f/4.85 – 3 x 500 frame Video – 18 fps



Sondördün - 08.07.2015 – Mudanya – Bursa – 152 mm f/4.85 – 5 x 400 frame Video – 18 fps



Süpermoon - 31.07.2015 – Mudanya – Bursa – 152 mm f/4.85 – 7 x 800 frame Video – 18 fps



23.02.2016



31.07.2015

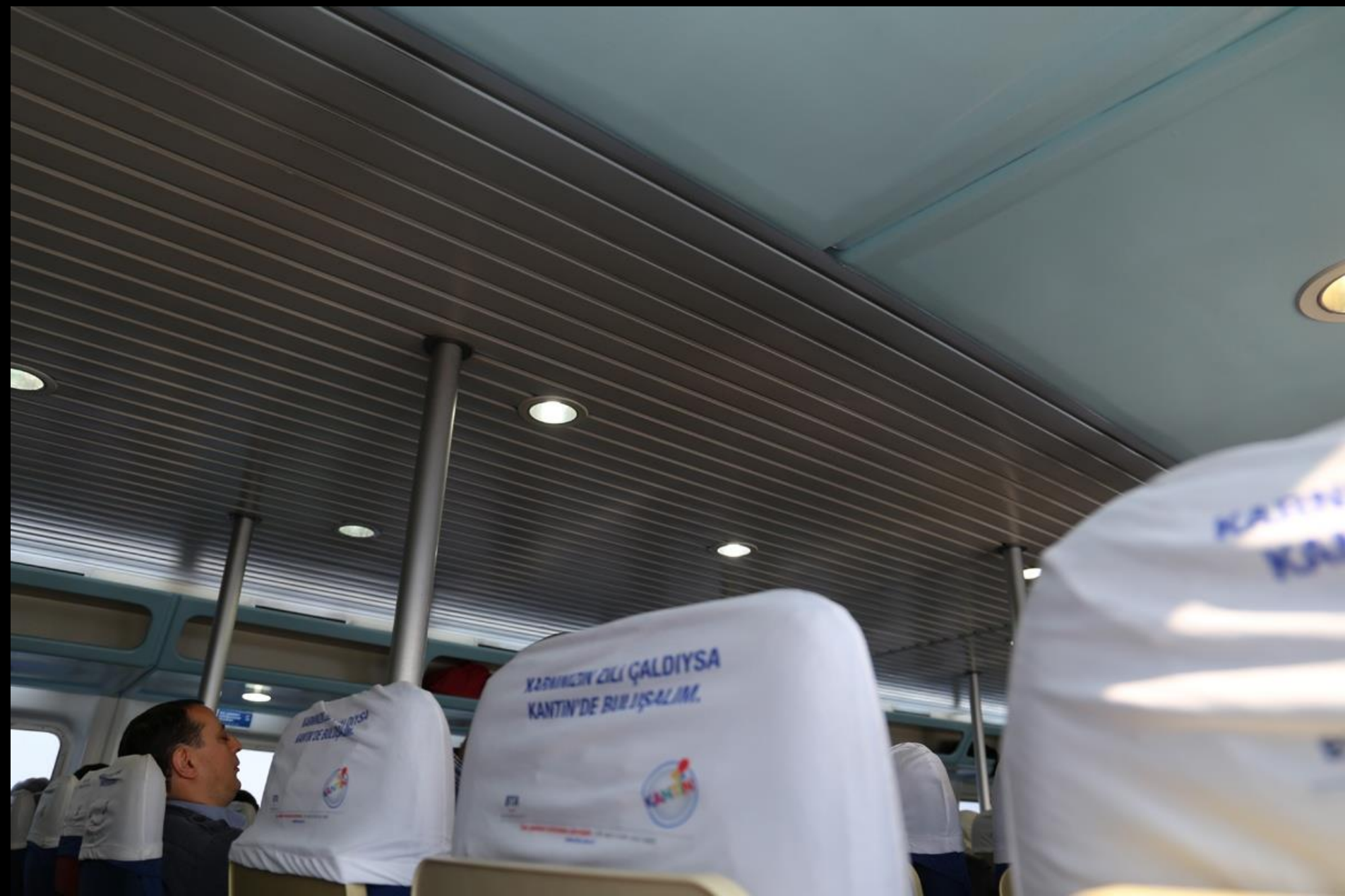


Mavi Ay - 31.08.2012 – Mudanya – Bursa – 152 mm f/4.85 – 6 x 960 frame – 18 fps









Gökyüzü Fotoğrafçılığı

Uğur İKİZLER

Teşekkürler...