

Verdere telescoopontwikkelingen en mijn nieuwe remote sterrenwacht in Duitsland

Oss, 4 november 2017
Albert van Duin







NGC3718 en 3729 totaal 14 uur in 2014 2015 en 2016



NGC6952 , 16 uur belicht in 2016



Cocoon , 5,5 uur belicht in 2016



IC342, 7,7 uur belicht in 2016



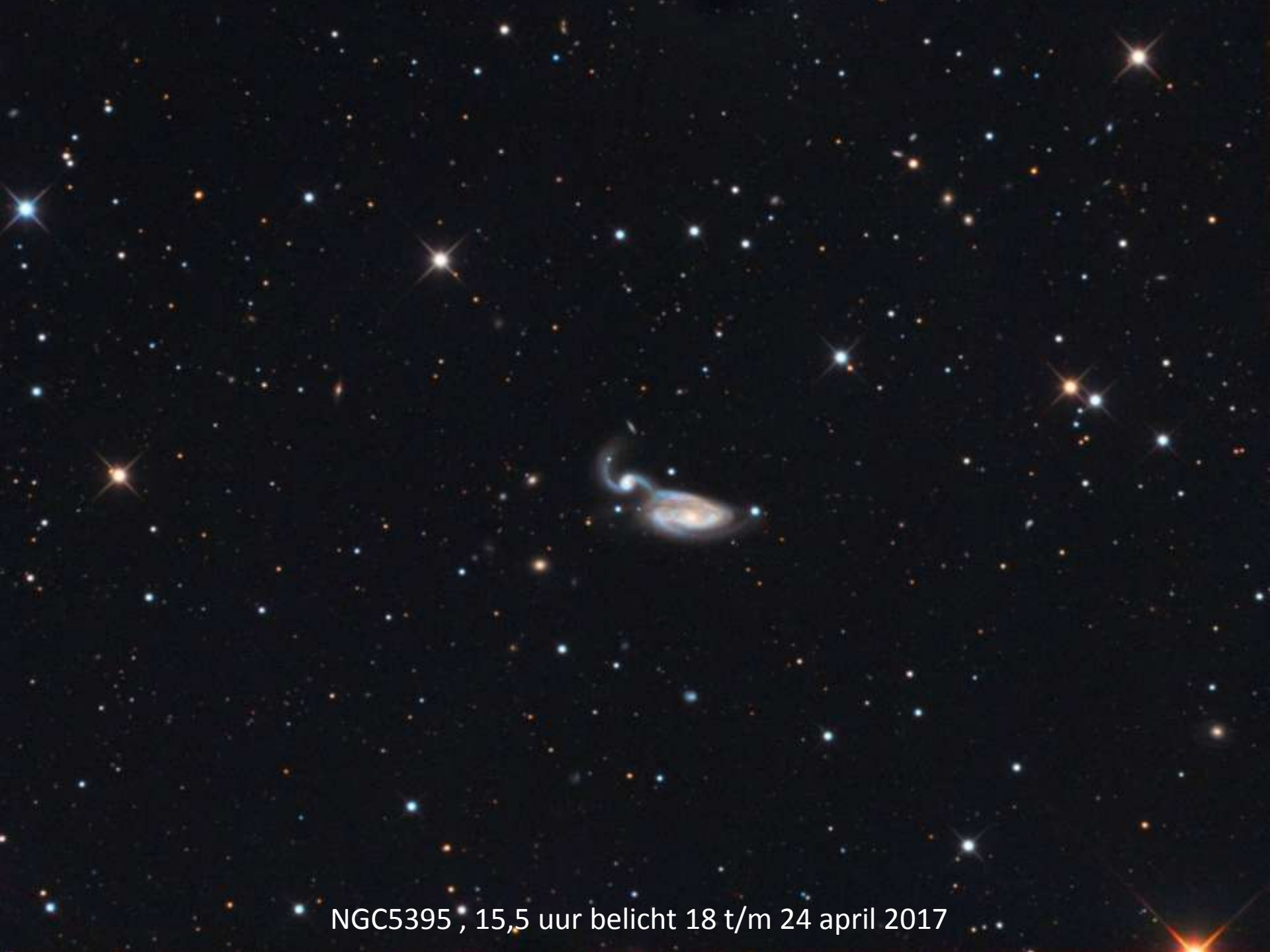
NGC6995 & IC340 , 5,7 uur belicht in 2016



M76 , 5 uur belicht op 28 dec 2016



NGC10214 , 7 uur belicht op 27 + 29 april 2017

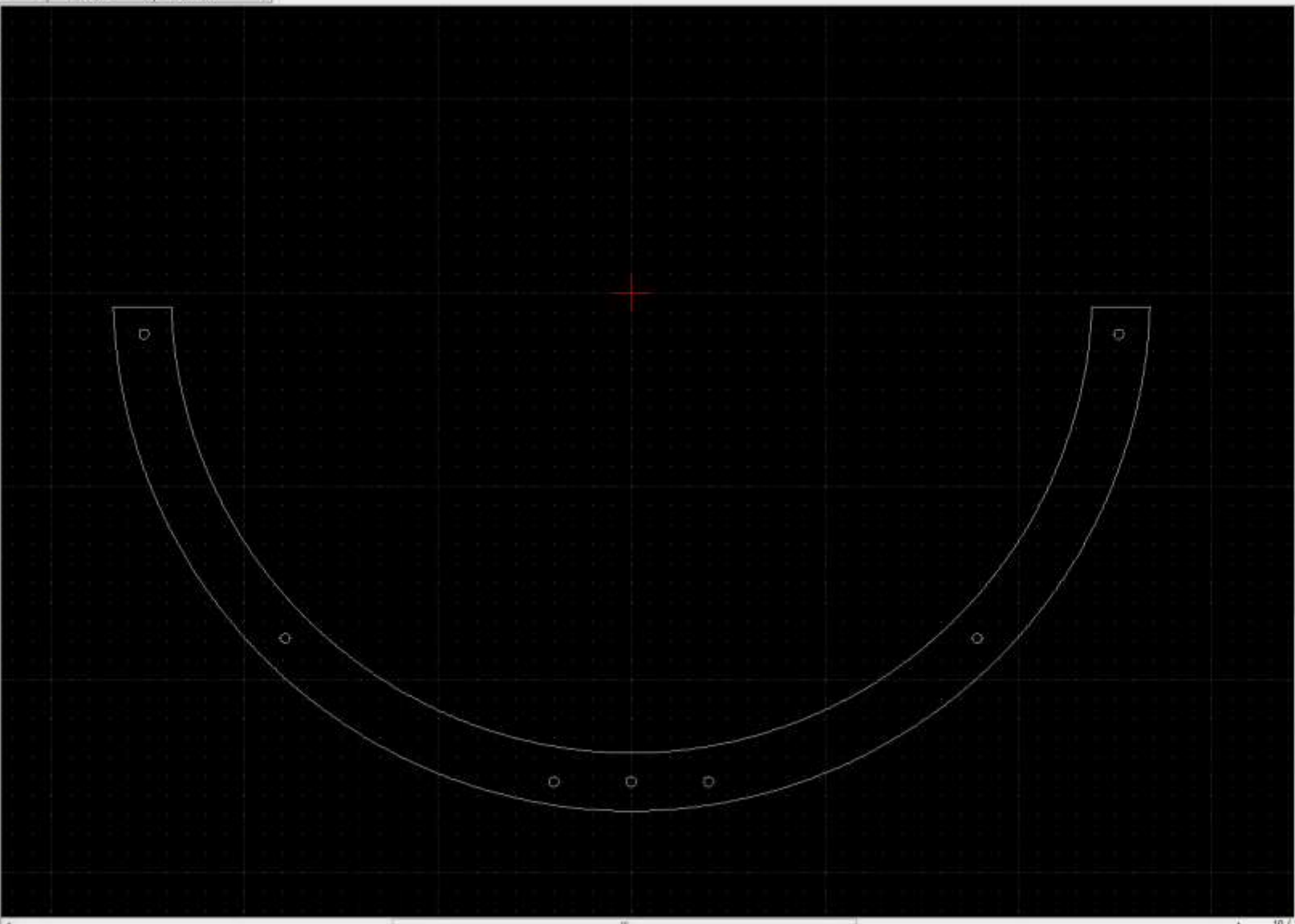
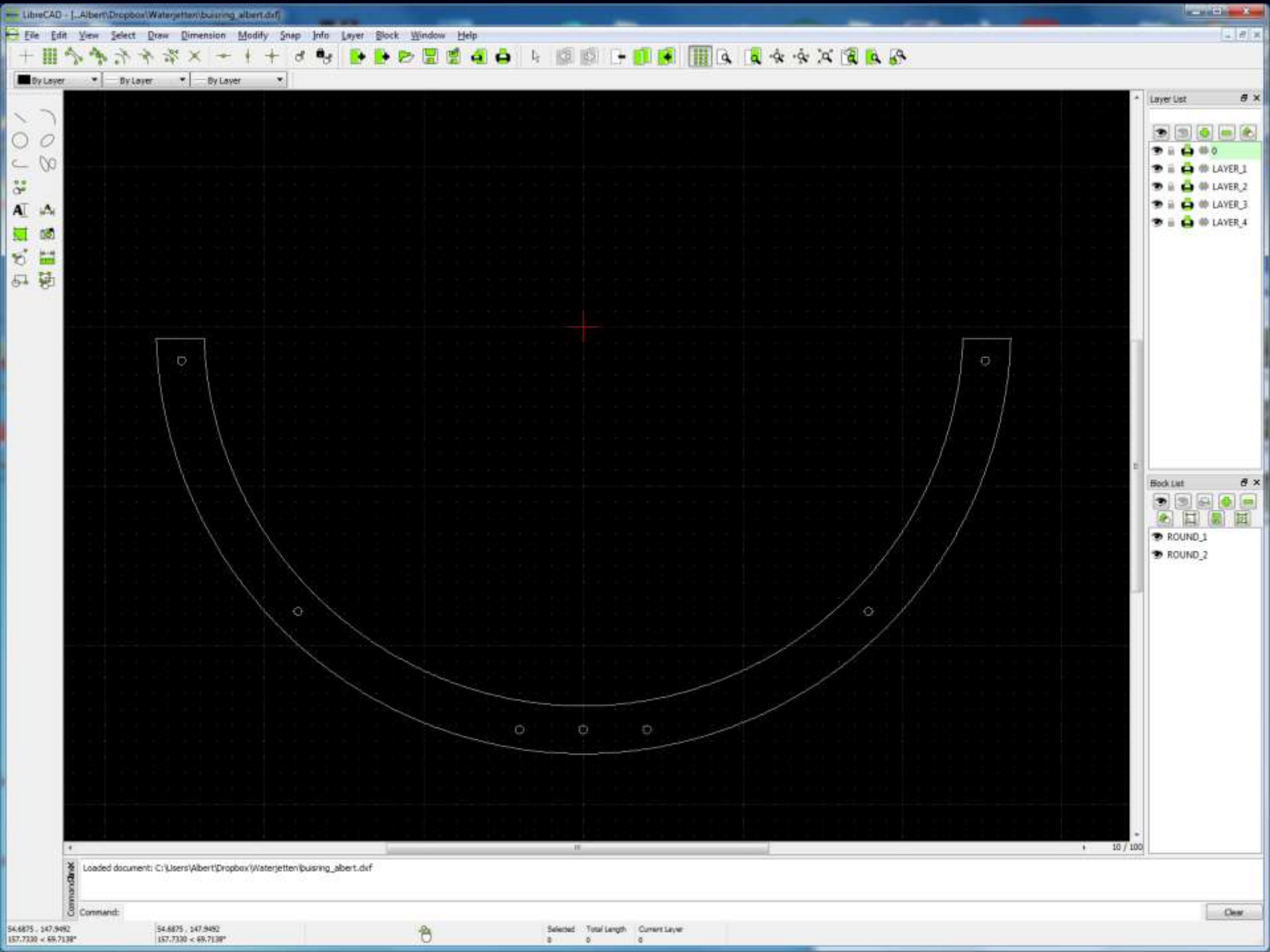


NGC5395 , 15,5 uur belicht 18 t/m 24 april 2017



Keenans System , 3 uur belicht 14-25 mei 2017





- 0
- LAYER_1
- LAYER_2
- LAYER_3
- LAYER_4

- ROUND_1
- ROUND_2

Loaded document: C:\Users\Albert\Dropbox\Waterjetten\buising_albert.dxf

Command:



























0.05 s ▾



Take Dark

Cam Dialog

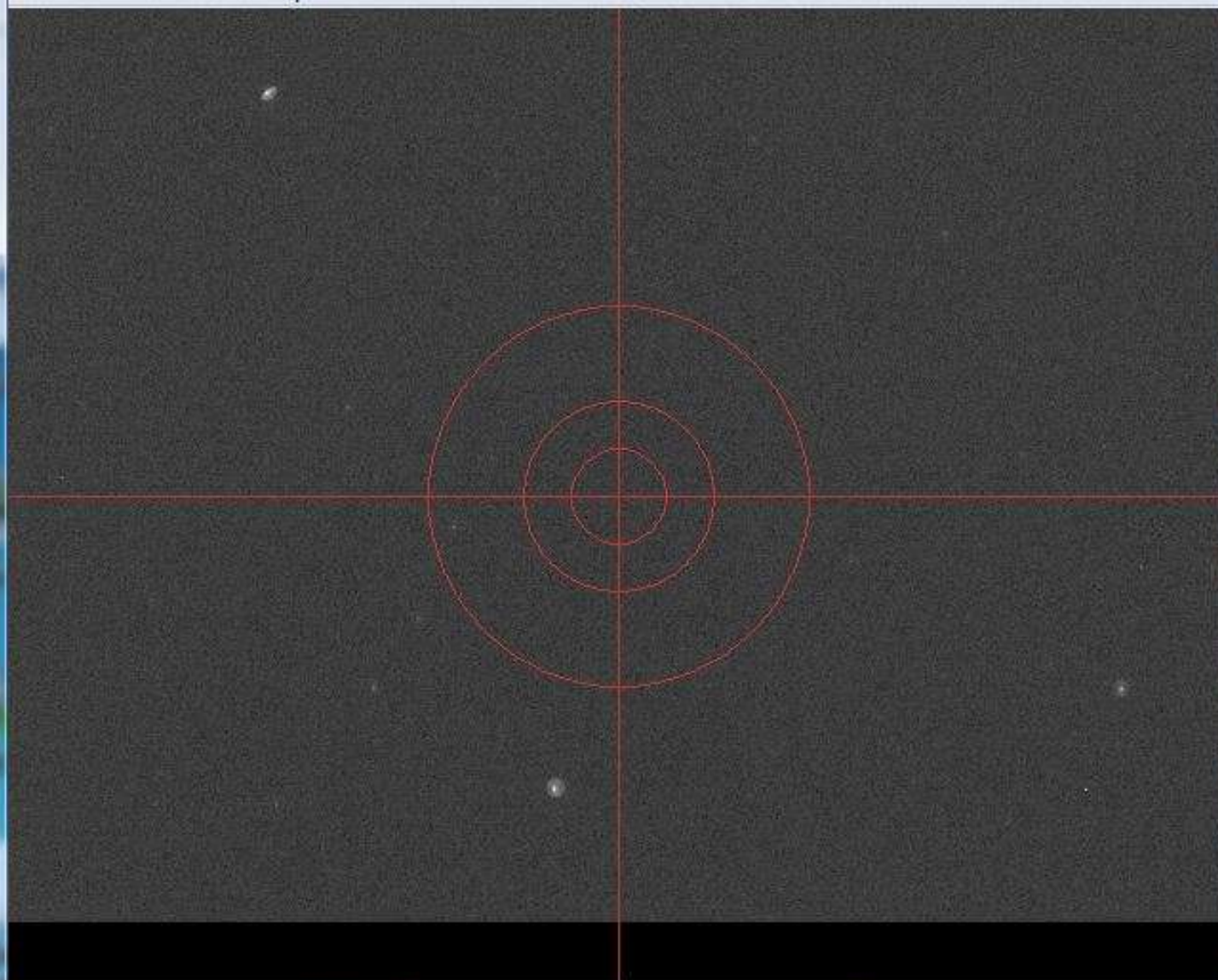
Capturing

2 frames

Camera

No scope

No cal



PHD Guiding 1.13.0b - www.stark-labs.com

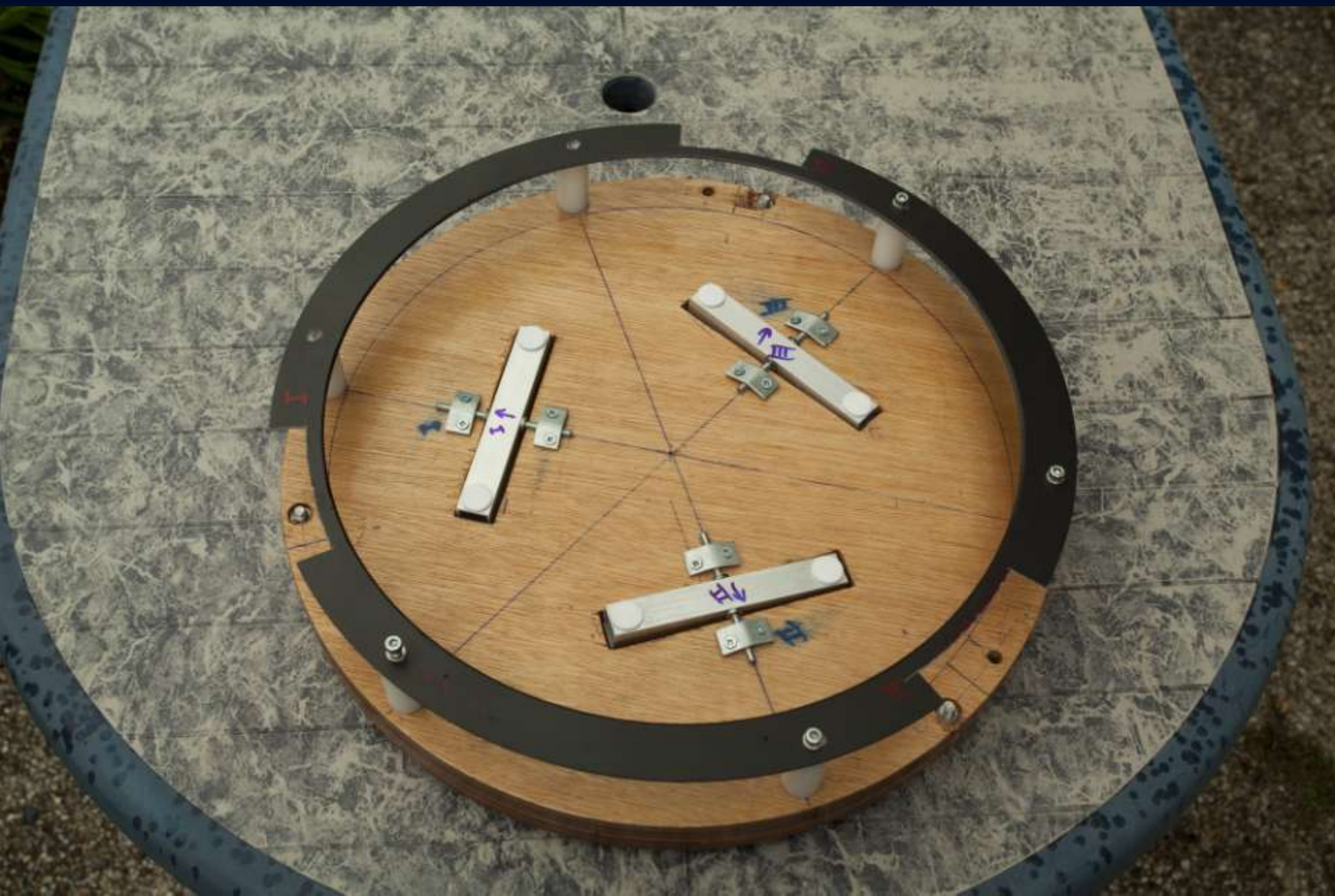
File Mount Tools Help Donate!

Capturing 30 frames 1.0 s [Slider] Take Dark Cam Dialog

Camera No scope No cal



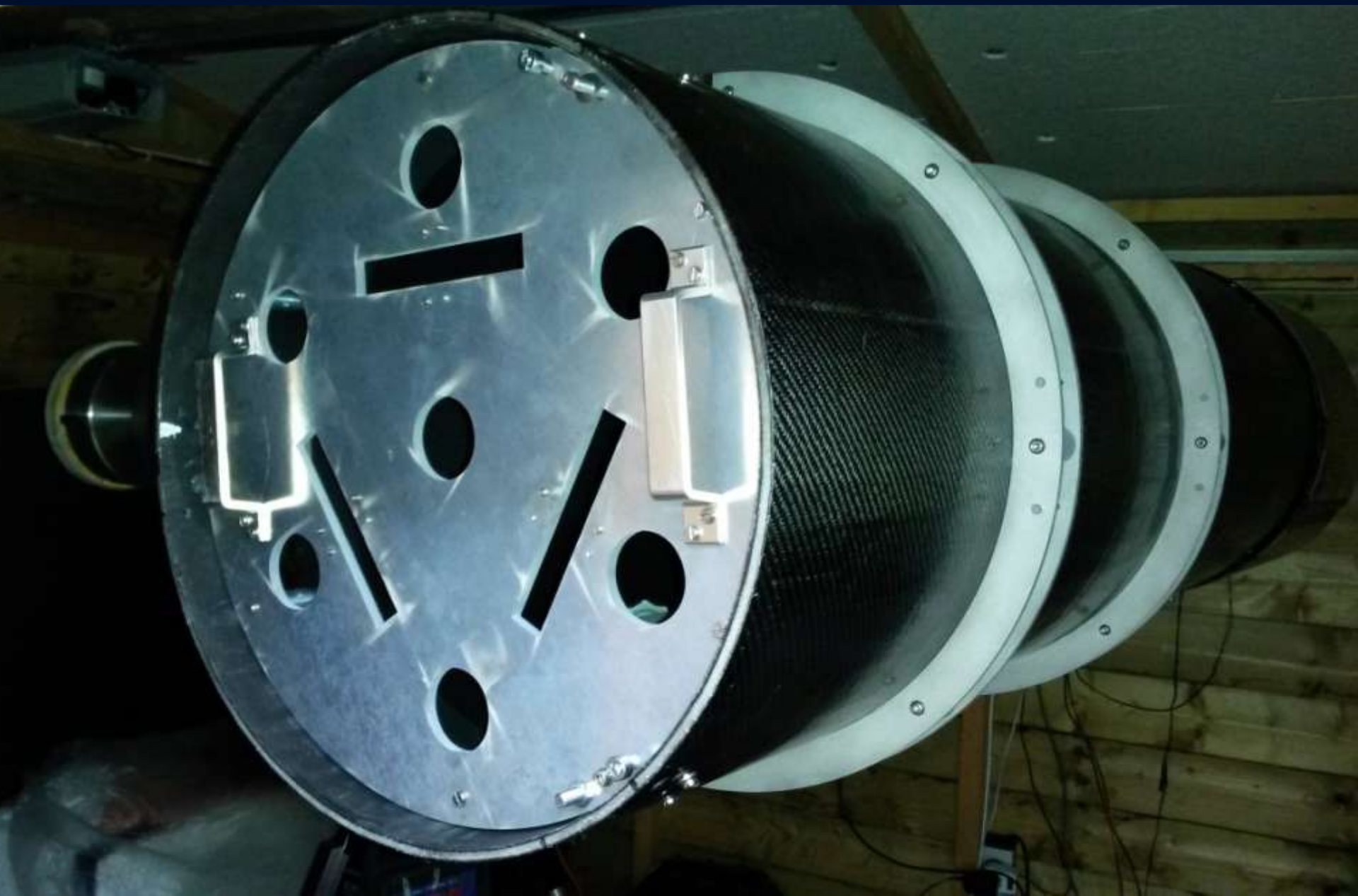










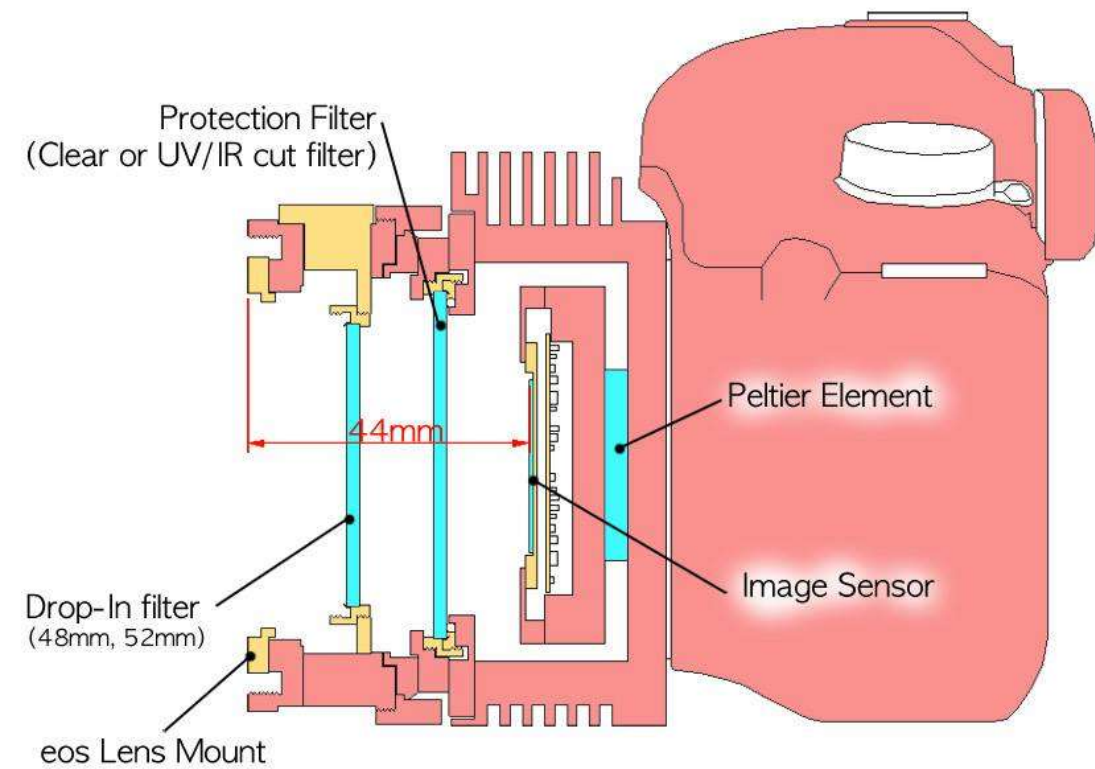




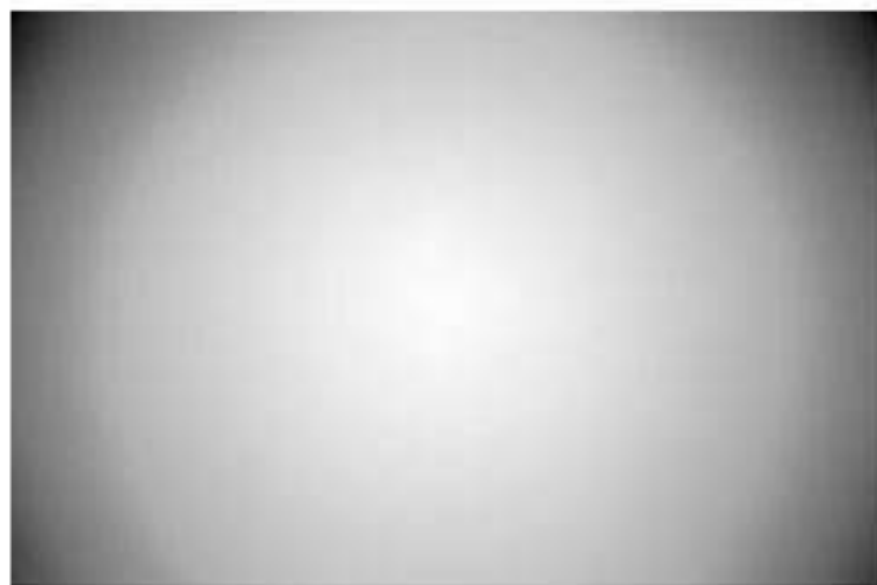


2016
29cm F/2,5
Lynx Astrograph

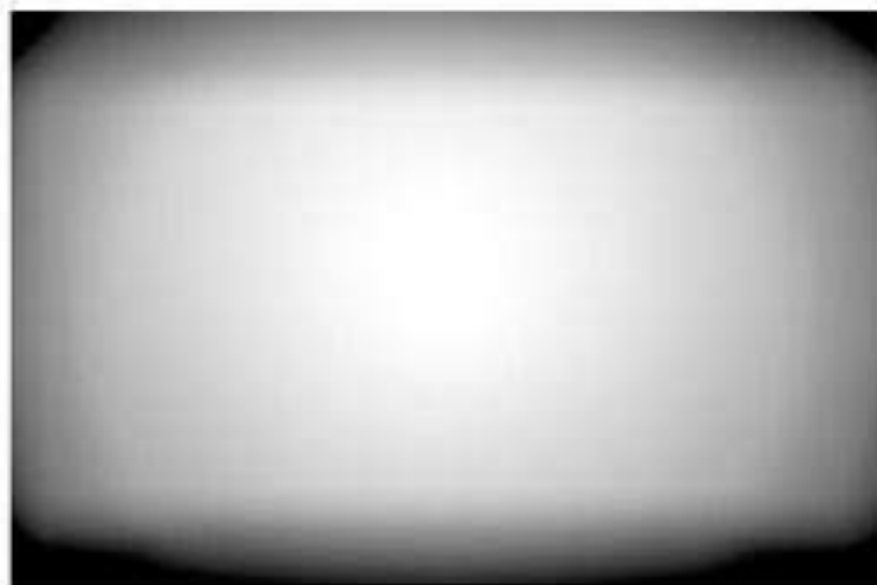




Central DS Astro-6D

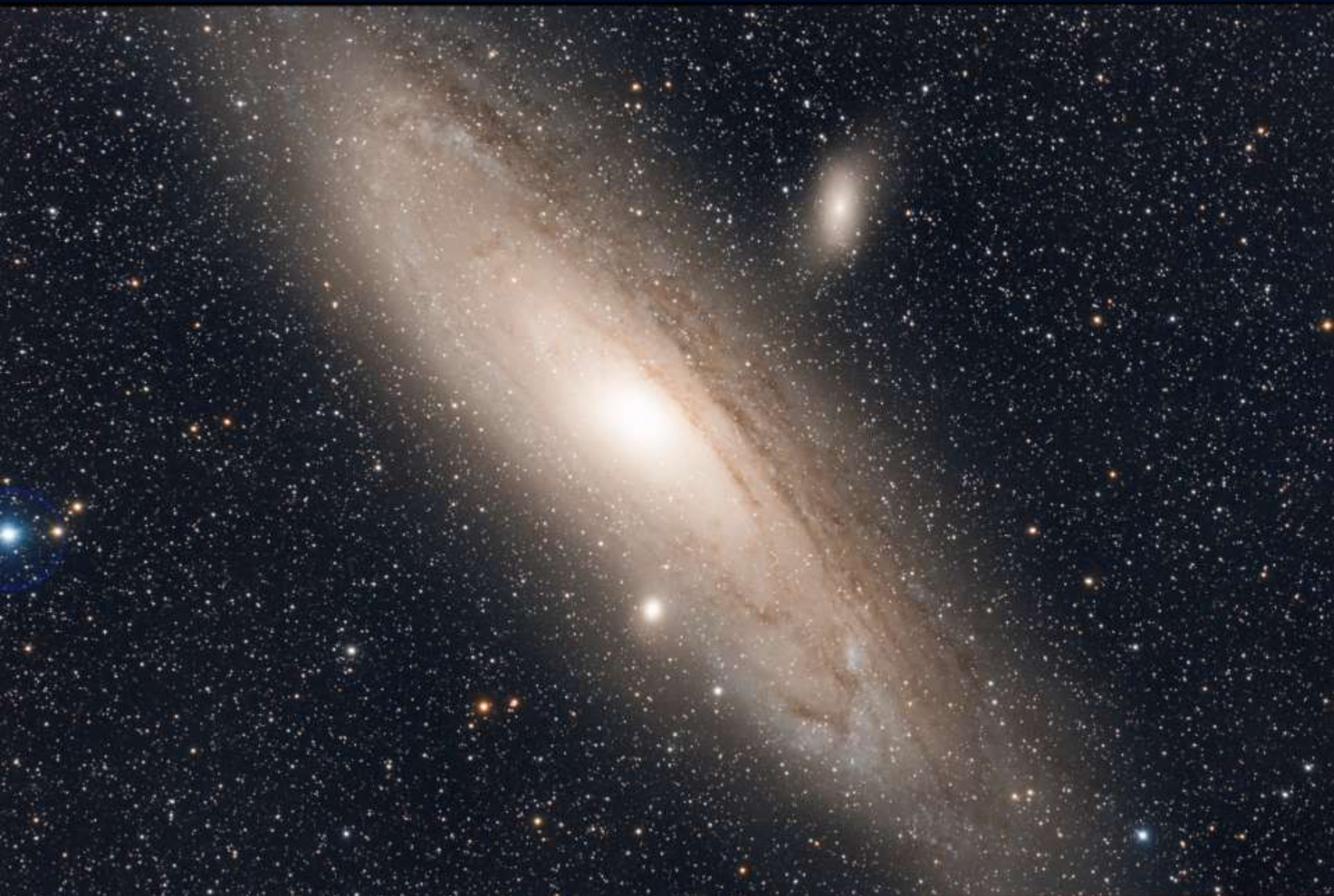


Astro6D フラットフレーム画像



EOS5D Mark II フラットフレーム画像







HeartNebula 800ISO 12 x 5 min

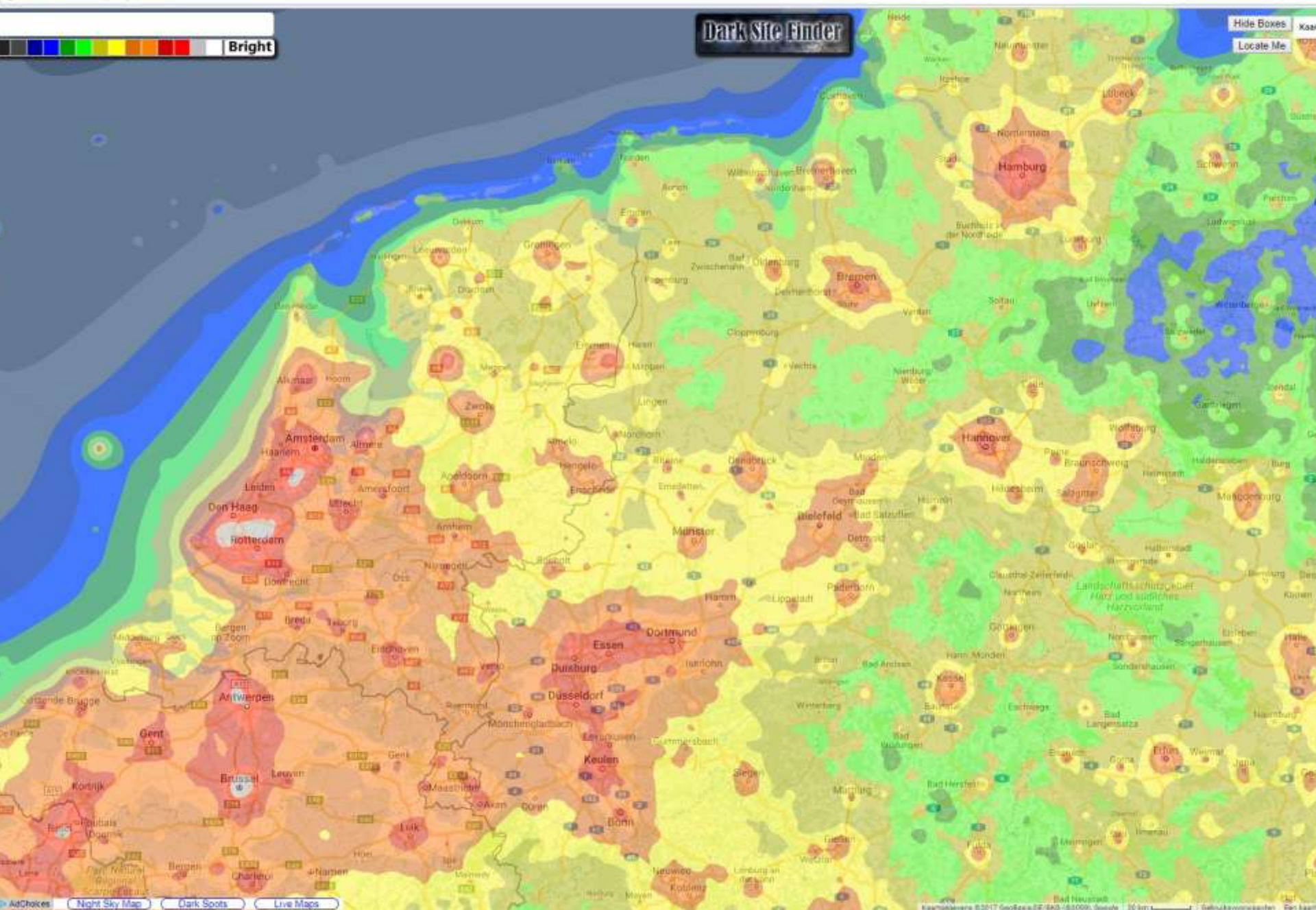
Burlage (D) 9 Sep 2016





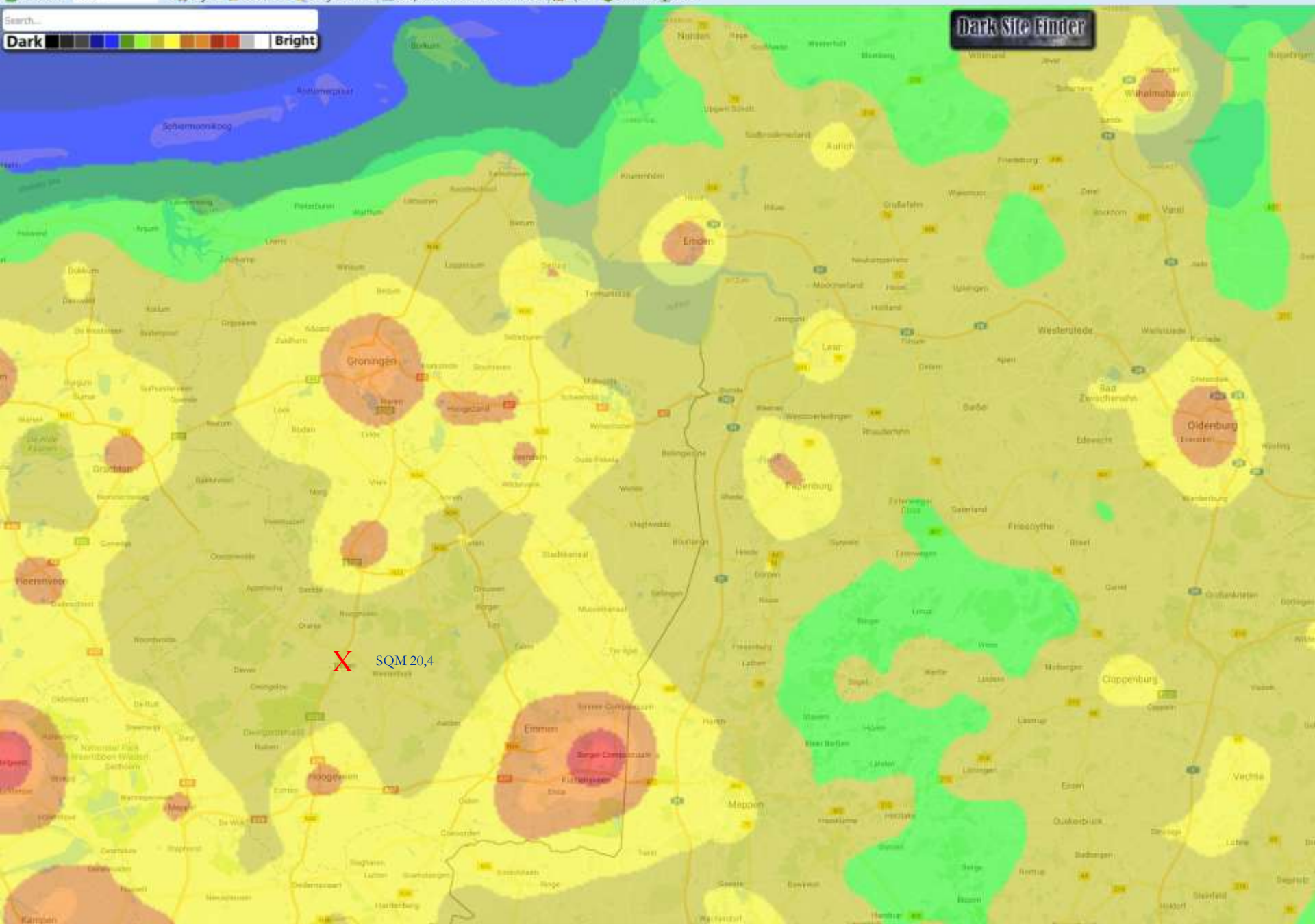


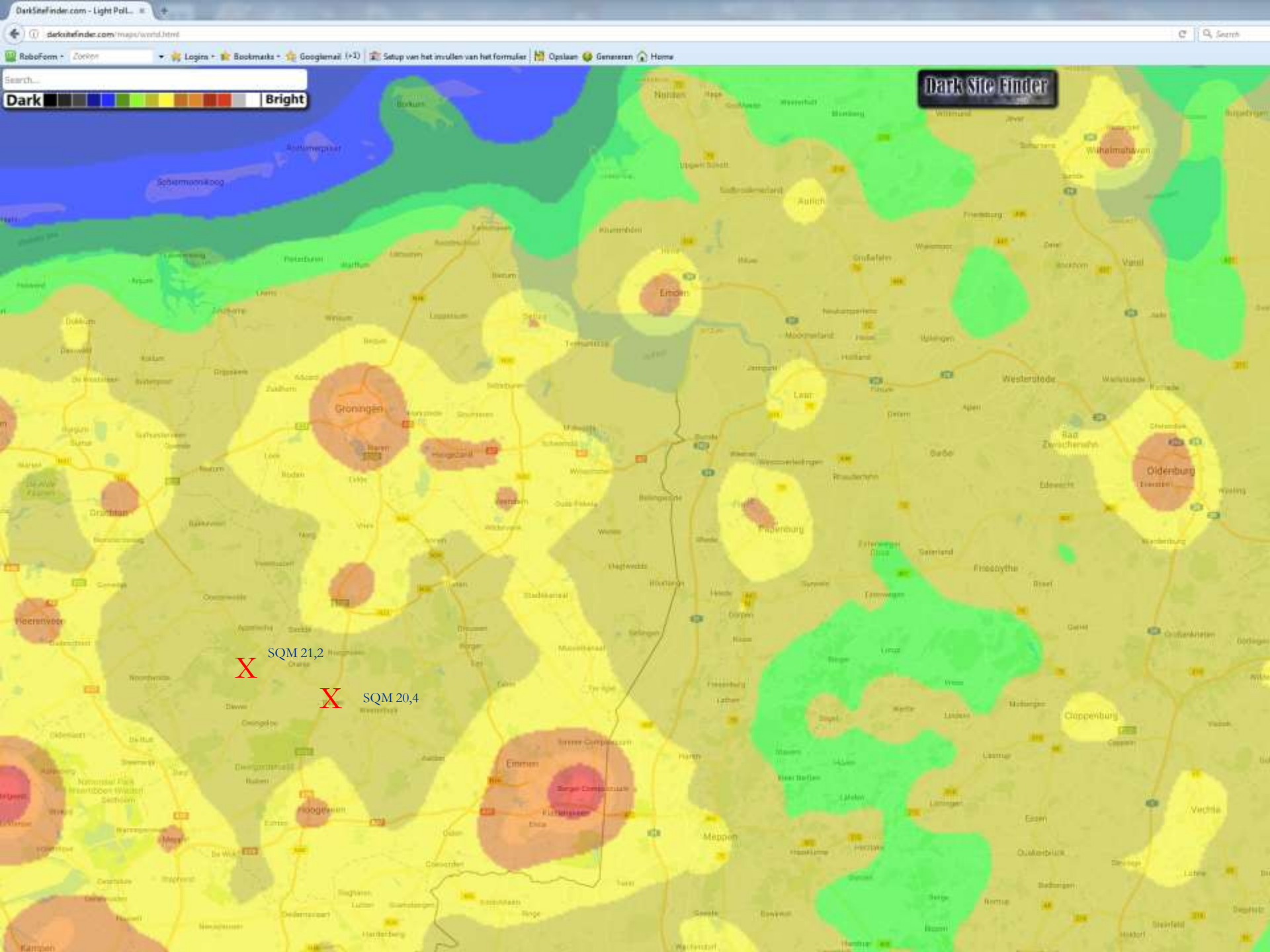


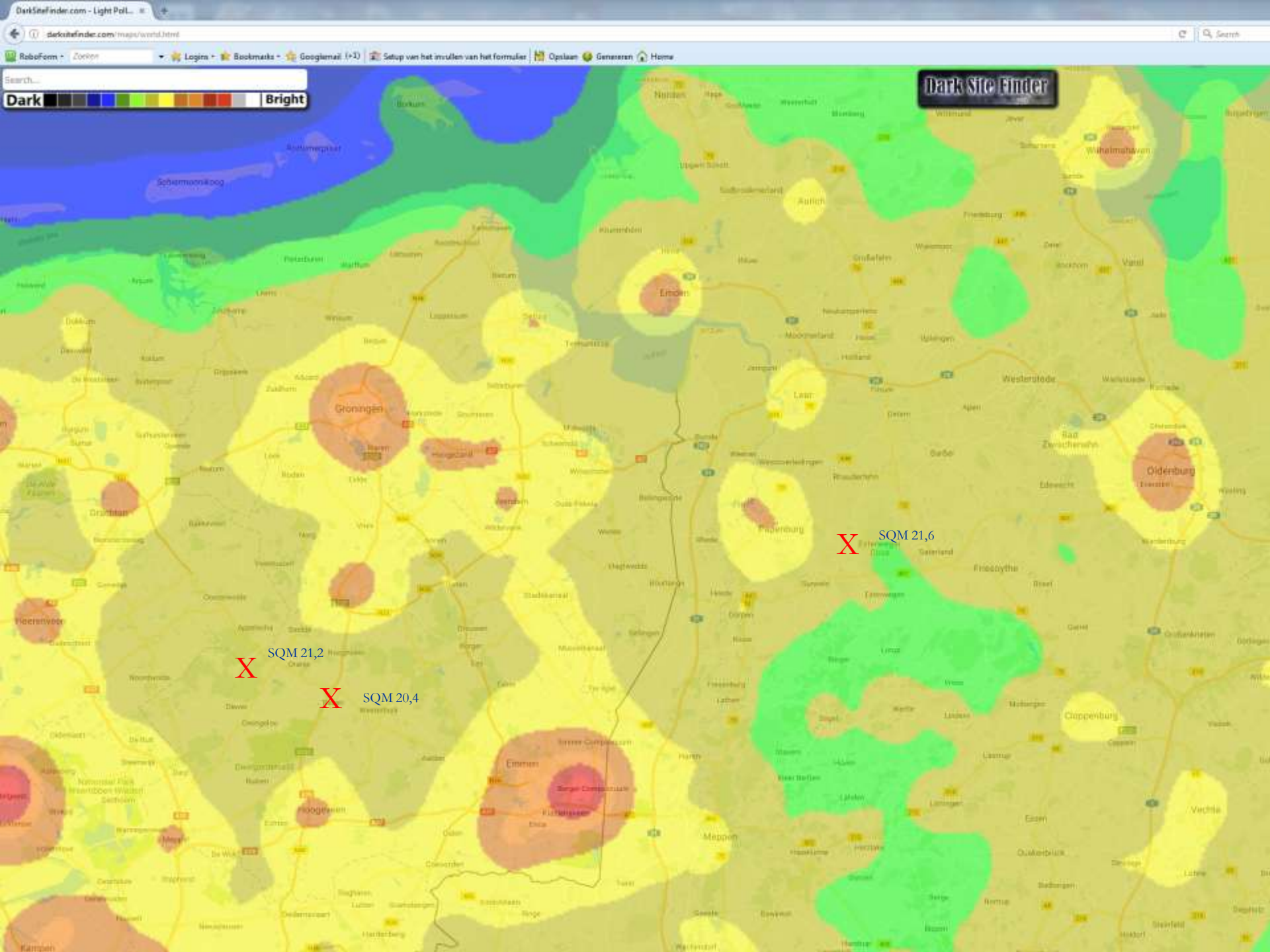


Search _____

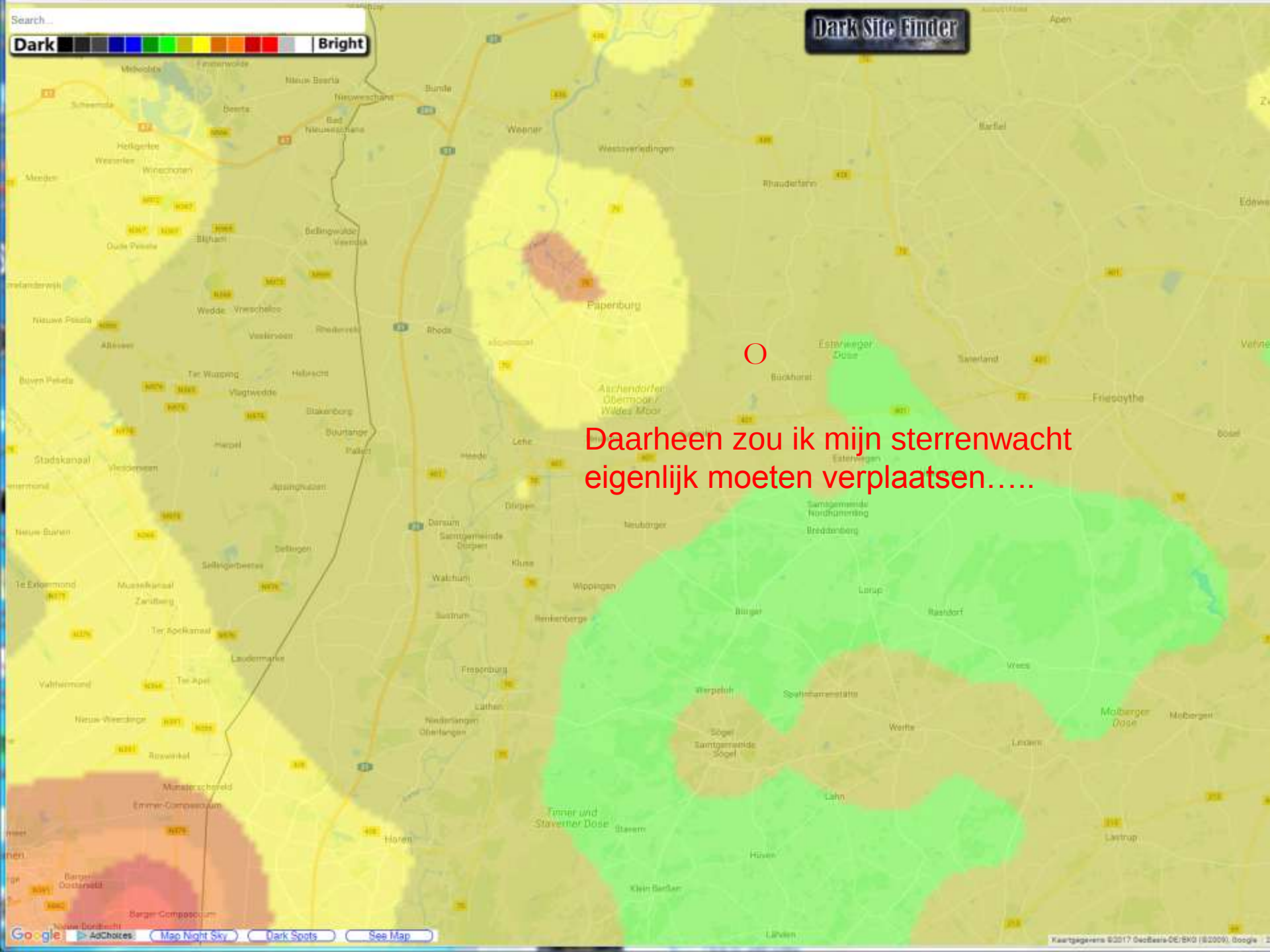
Dark Bright











Dark Site Finder

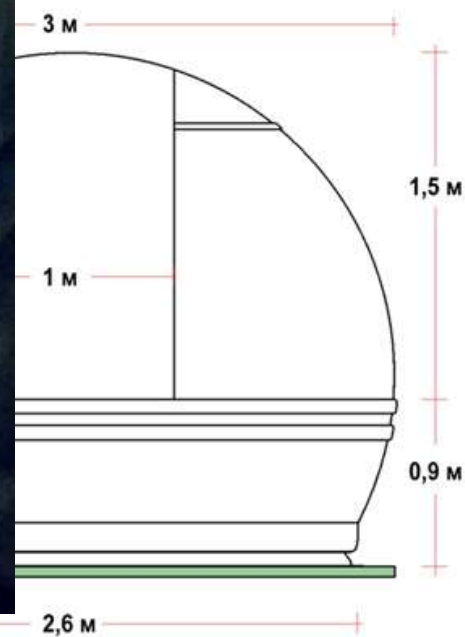
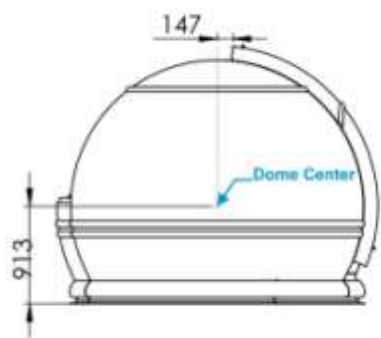
Daarheen zou ik mijn sterrenwacht
eigenlijk moeten verplaatsen.....

Search...

Dark [color scale] Bright



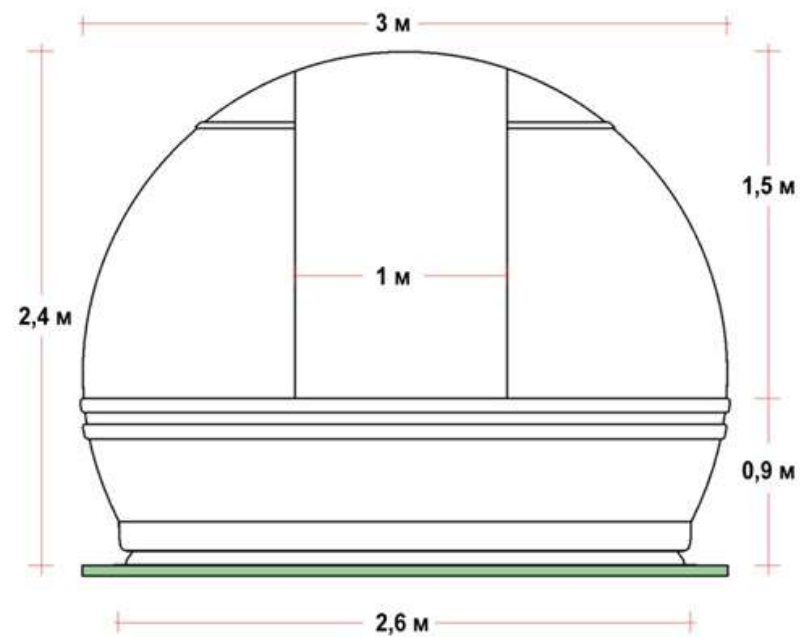
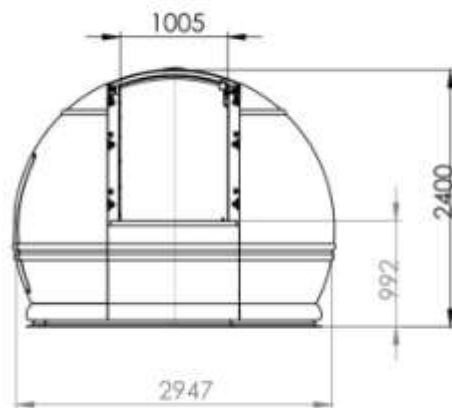
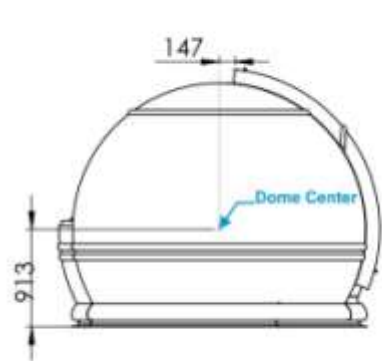
Edgar Getreuer
1923 - 2014



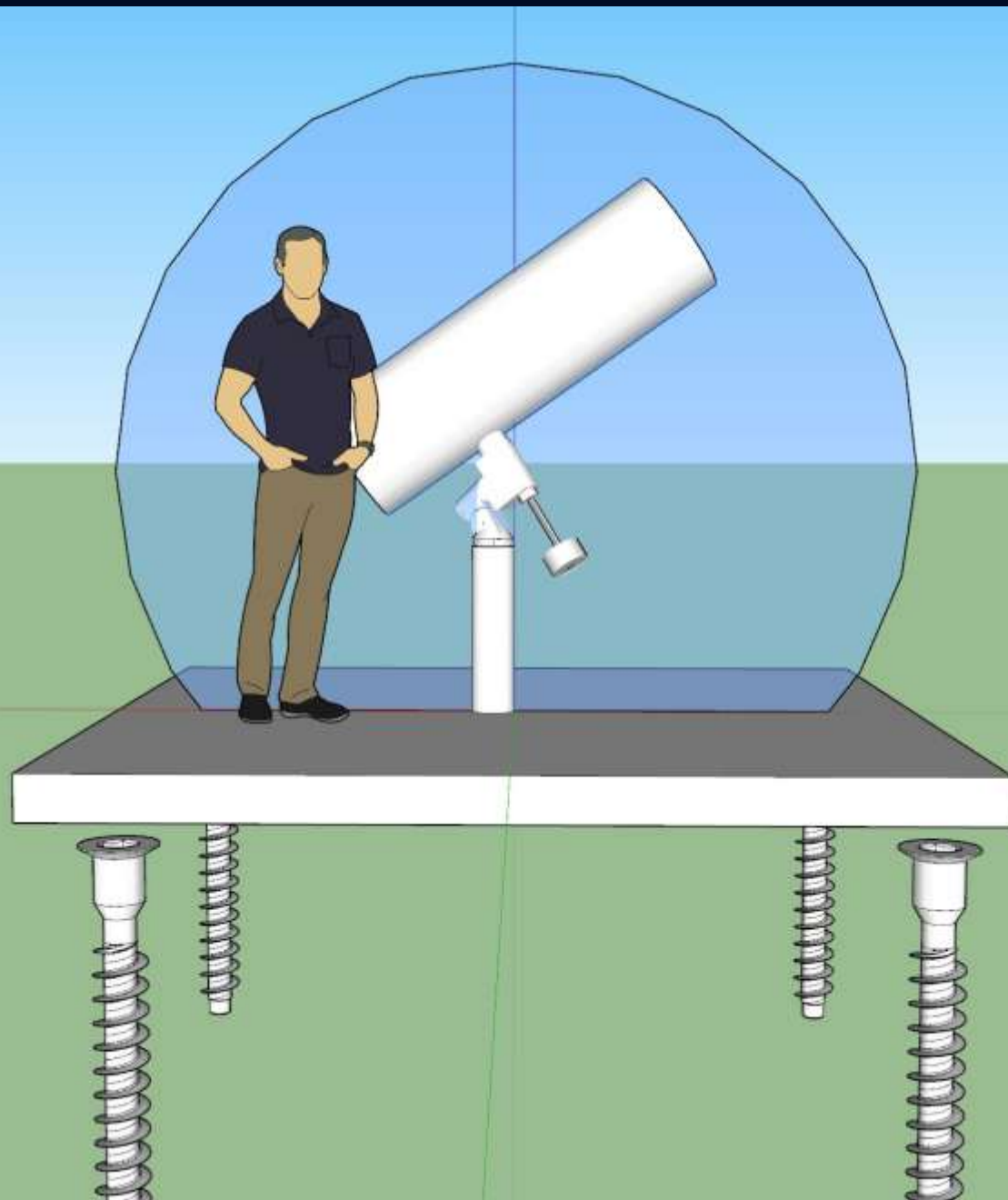
3-11-2016



4-8-2011



3-11-2016



3-11-2016



25-11-2016



26-11-2016



26-11-2016



26-11-2016



26-11-2016



26-11-2016



26-11-2016



26-11-2016



16-12-2016



16-12-2016



16-12-2016



27-12-2016



27-12-2016



2-1-2017



2-1-2017



2-1-2017



3-1-2017



18-2-2017



18-2-2017



18-2-2017



11-3-2017



11-3-2017



TeleskopTreffen Burlage
1-4-2017



TeleskopTreffen Burlage
1-4-2017



TeleskopTreffen Burlage

1-4-2017



TeleskopTreffen Burlage
1-4-2017



TeleskopTreffen Burlage
1-4-2017



22-4-2017



22-4-2-17



6-5-2017



7-5-2017



7-5-2017



27-5-2017



27-5-2017



4-6-2017



5-8-2017



5-8-2017



5-8-2017



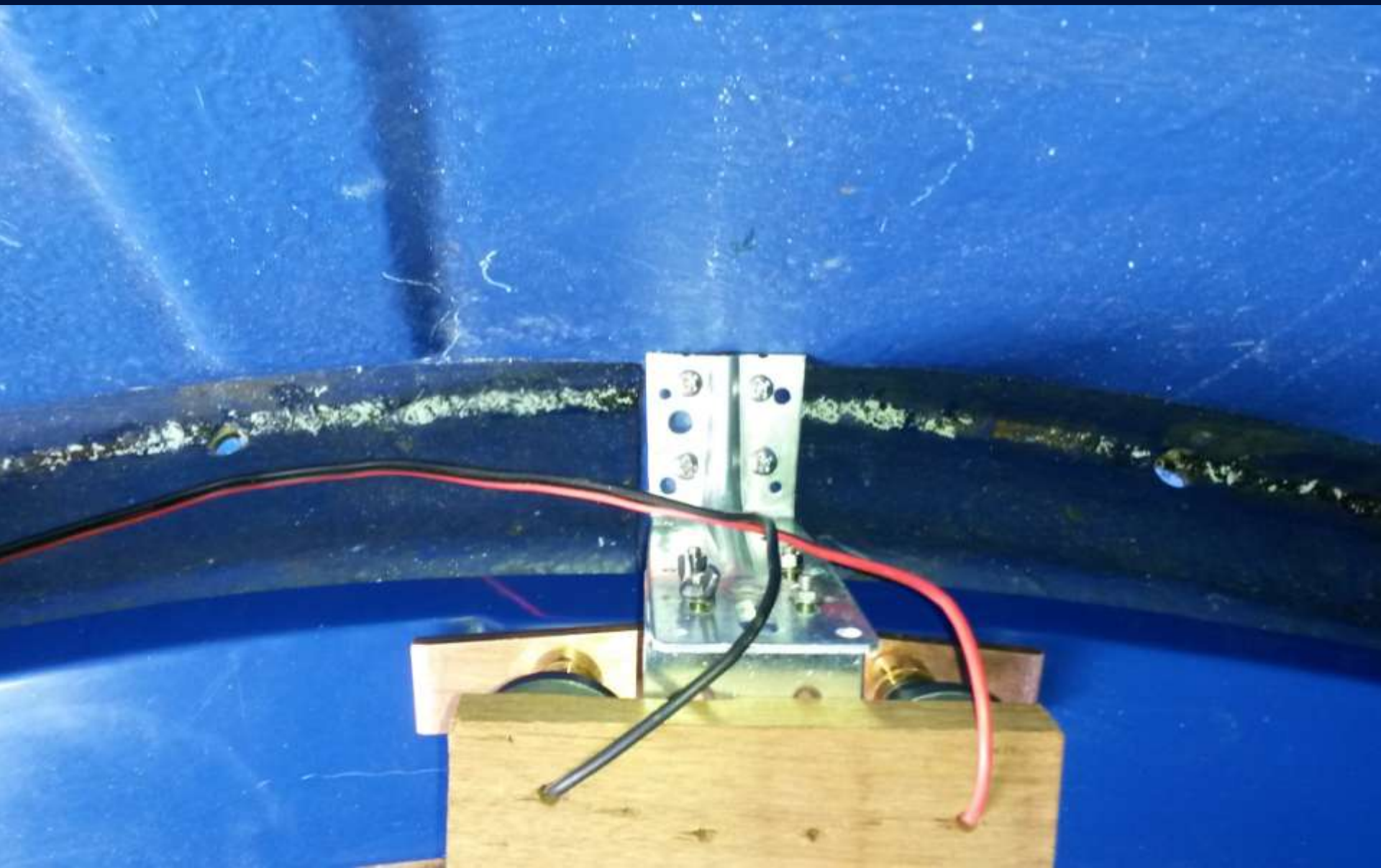
26-8-2017



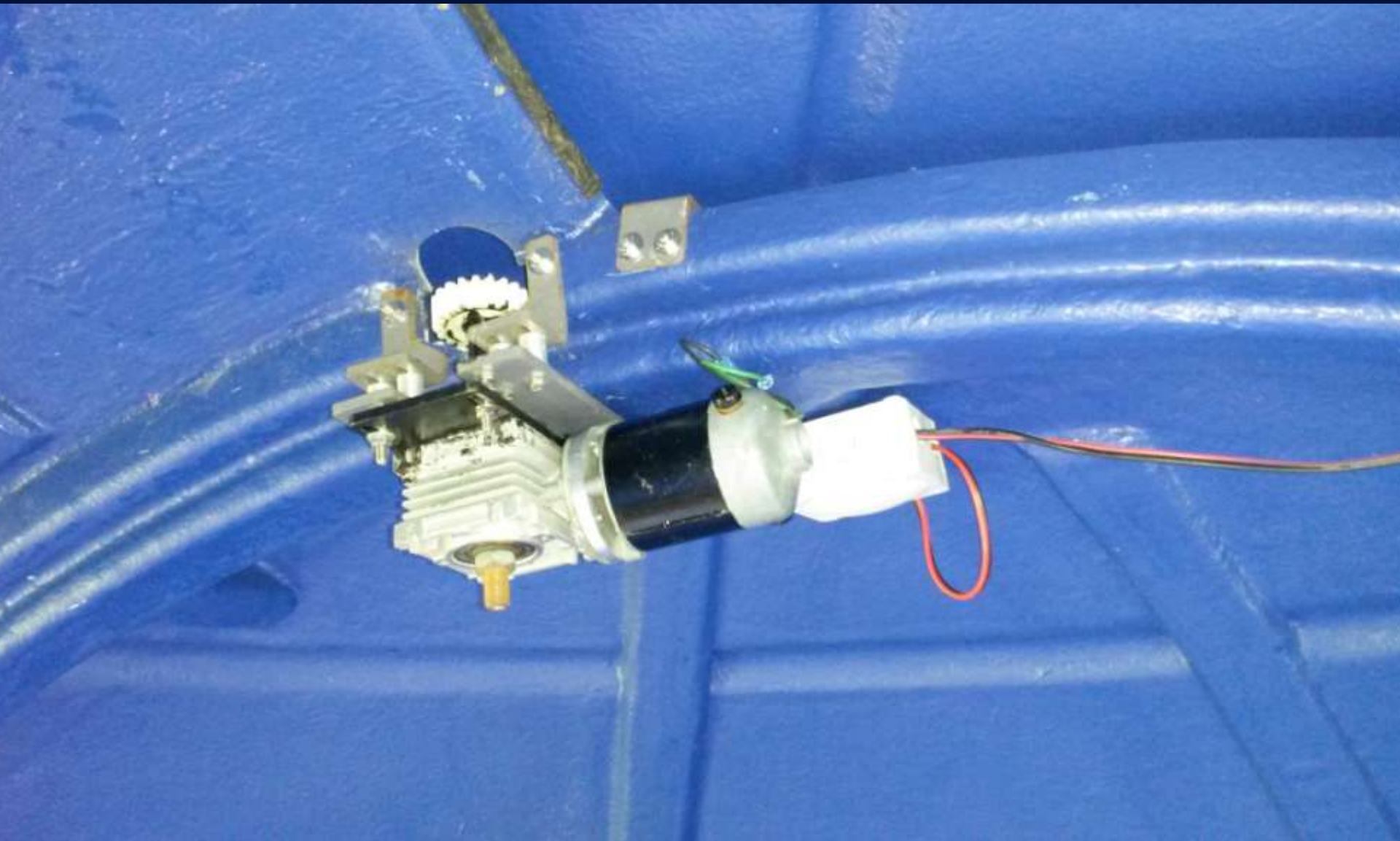
26-8-2017



10-9-2017



10-9-2017



10-9-2017



10-9-2017

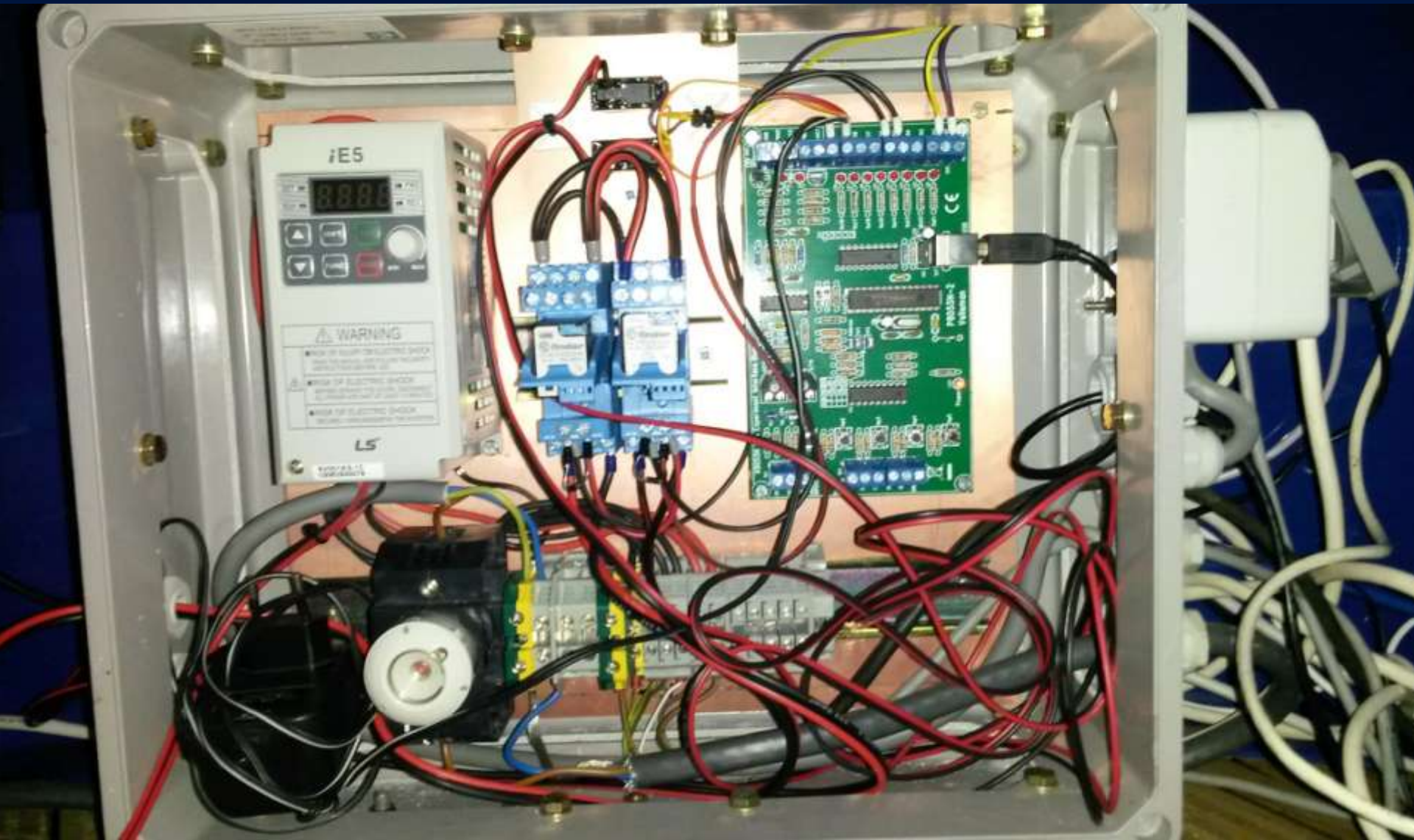


TeleskopTreffen Burlage
16-9-2017

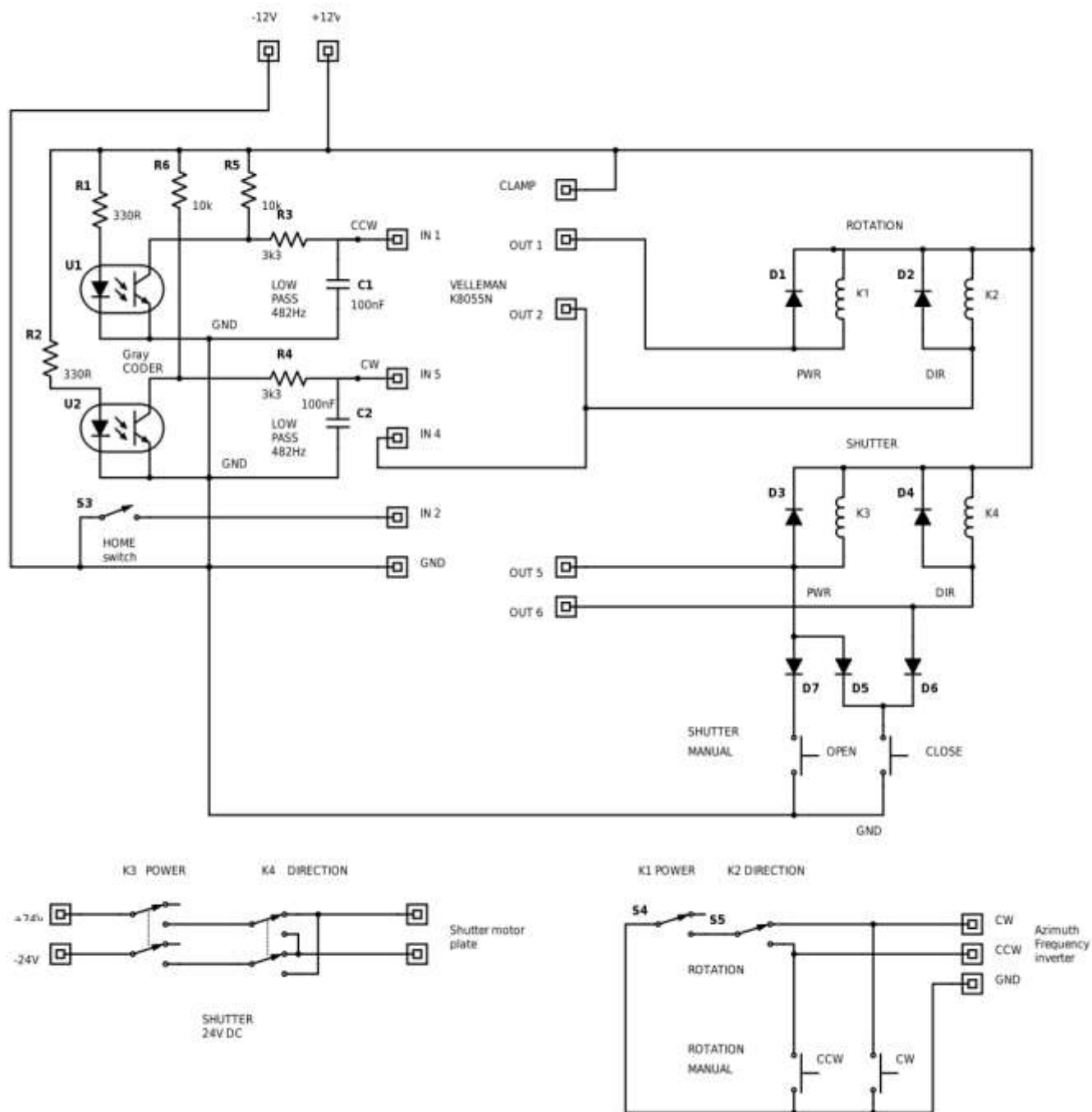


TeleskopTreffen Burlage
16-9-2017





20-9-2017





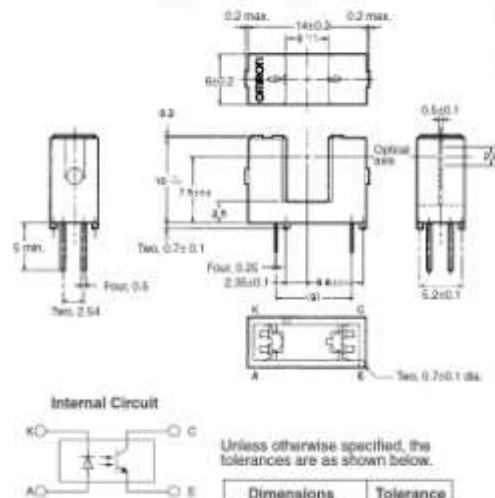
Gray
Encoder



Photomicrosensor (Transmissive) EE-SX1041

■ Dimensions

Note: All units are in millimeters unless otherwise indicated.



■ Features

- General-purpose model with a 5-mm-wide slot.
- PCB mounting type.
- High resolution with a 0.5-mm-wide aperture.

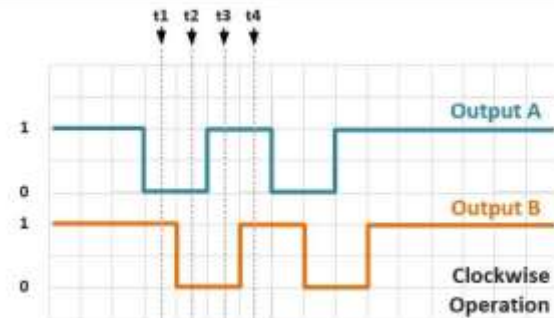
■ Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rated value
Emitter	Forward current	I_F 50 mA (see note 1)
	Pulse forward current	I_{FP} 1 A (see note 2)
	Reverse voltage	V_R 4 V
Detector	Collector-Emitter voltage	V_{CE0} 30 V
	Emitter-Collector voltage	V_{EC0} ---
	Collector current	I_C 20 mA
Ambient temperature	Operating	T_{opr} -25°C to 95°C
	Storage	T_{stg} -30°C to 100°C
Soldering temperature	T_{sld}	260°C (see note 3)

- Note: 1. Refer to the temperature rating chart if the ambient temperature exceeds 25°C.
 2. The pulse width is 10 μ s maximum with a frequency of 100 Hz.
 3. Complete soldering within 10 seconds.

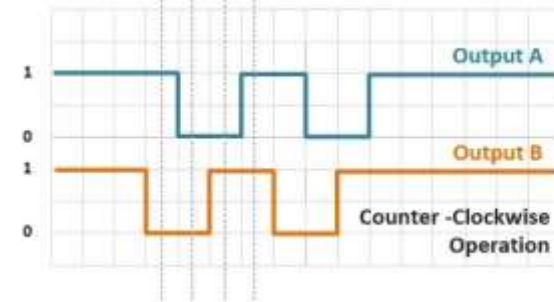
Terminal No.	Name
A	Anode
K	Cathode
C	Collector
E	Emitter

Dimensions	Tolerance
3 mm max.	±0.3
3 < mm ≤ 6	±0.375
6 < mm ≤ 10	±0.45
10 < mm ≤ 18	±0.55
18 < mm ≤ 30	±0.65



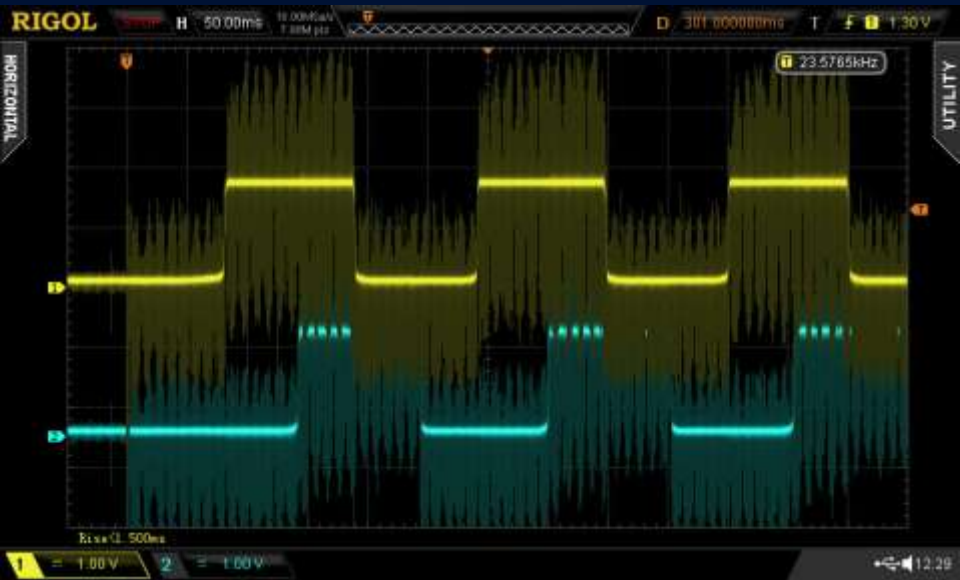
Clockwise
Sequence

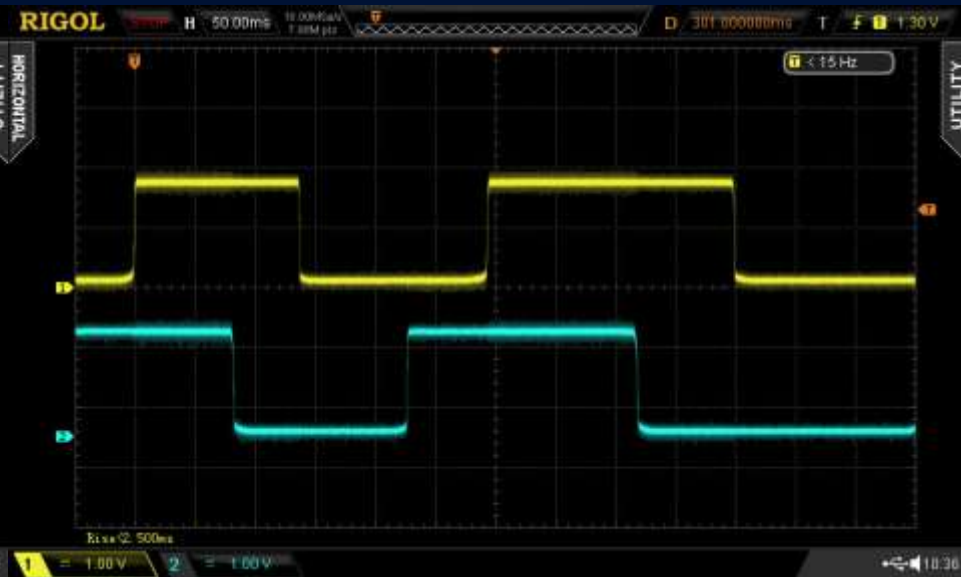
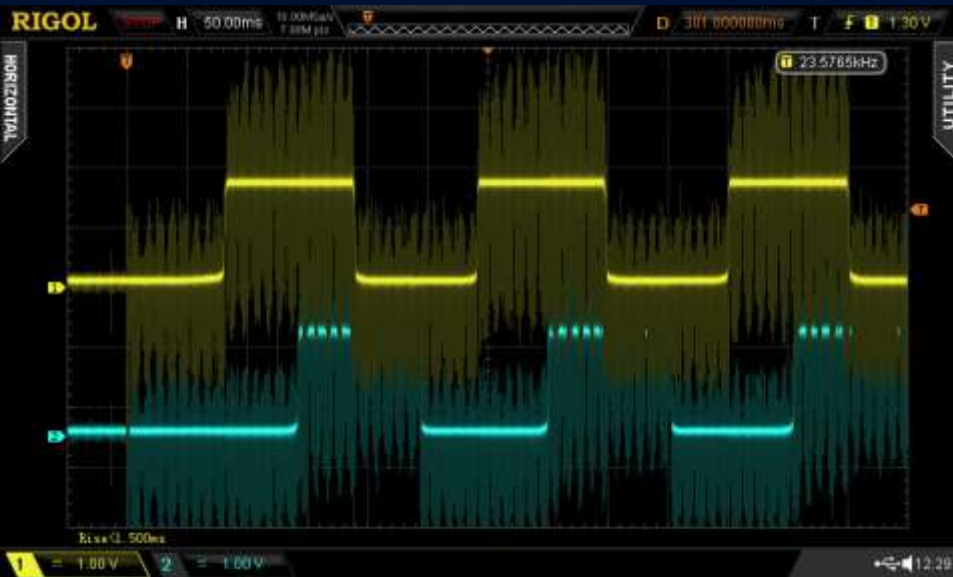
	A	B
t1	0	1
t2	0	0
t3	1	0
t4	1	1

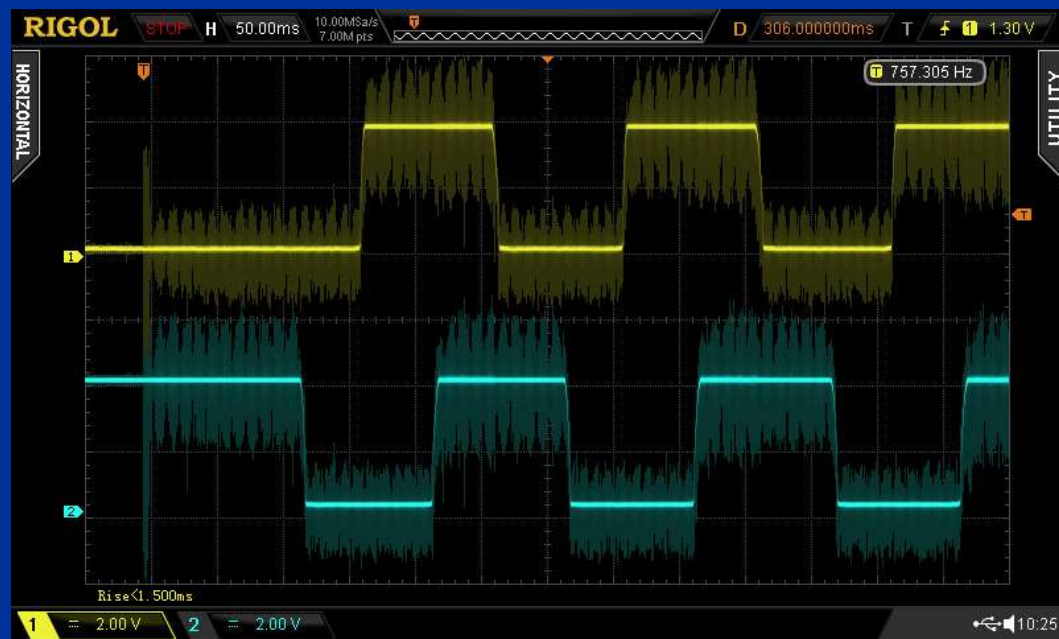
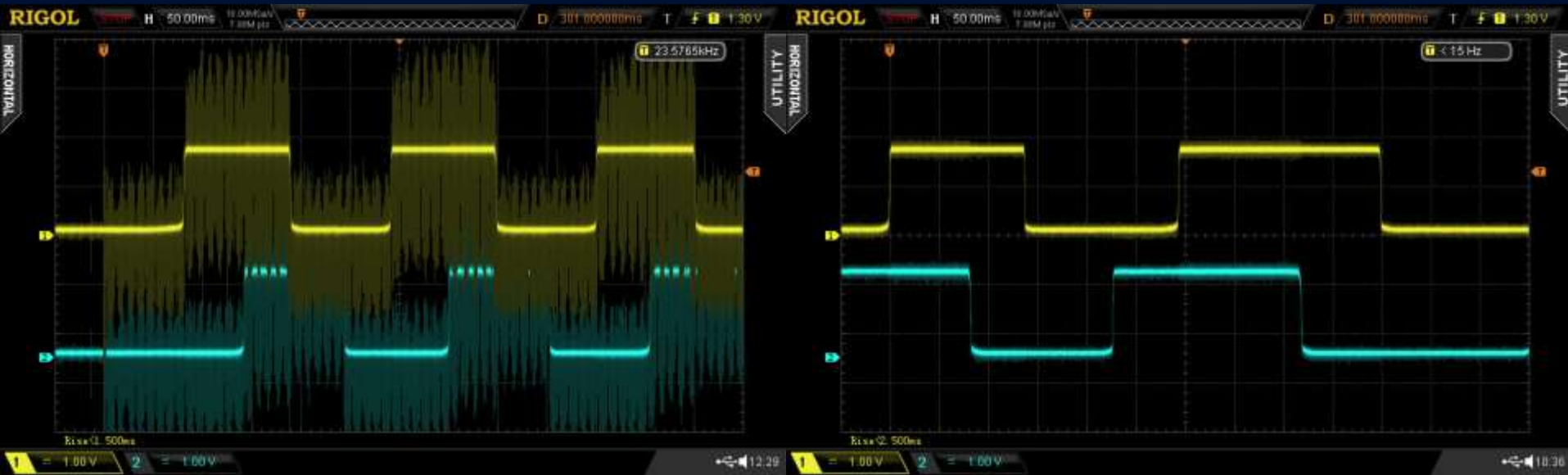


Counter-Clockwise
Sequence

	A	B
t1	1	0
t2	0	0
t3	0	1
t4	1	1







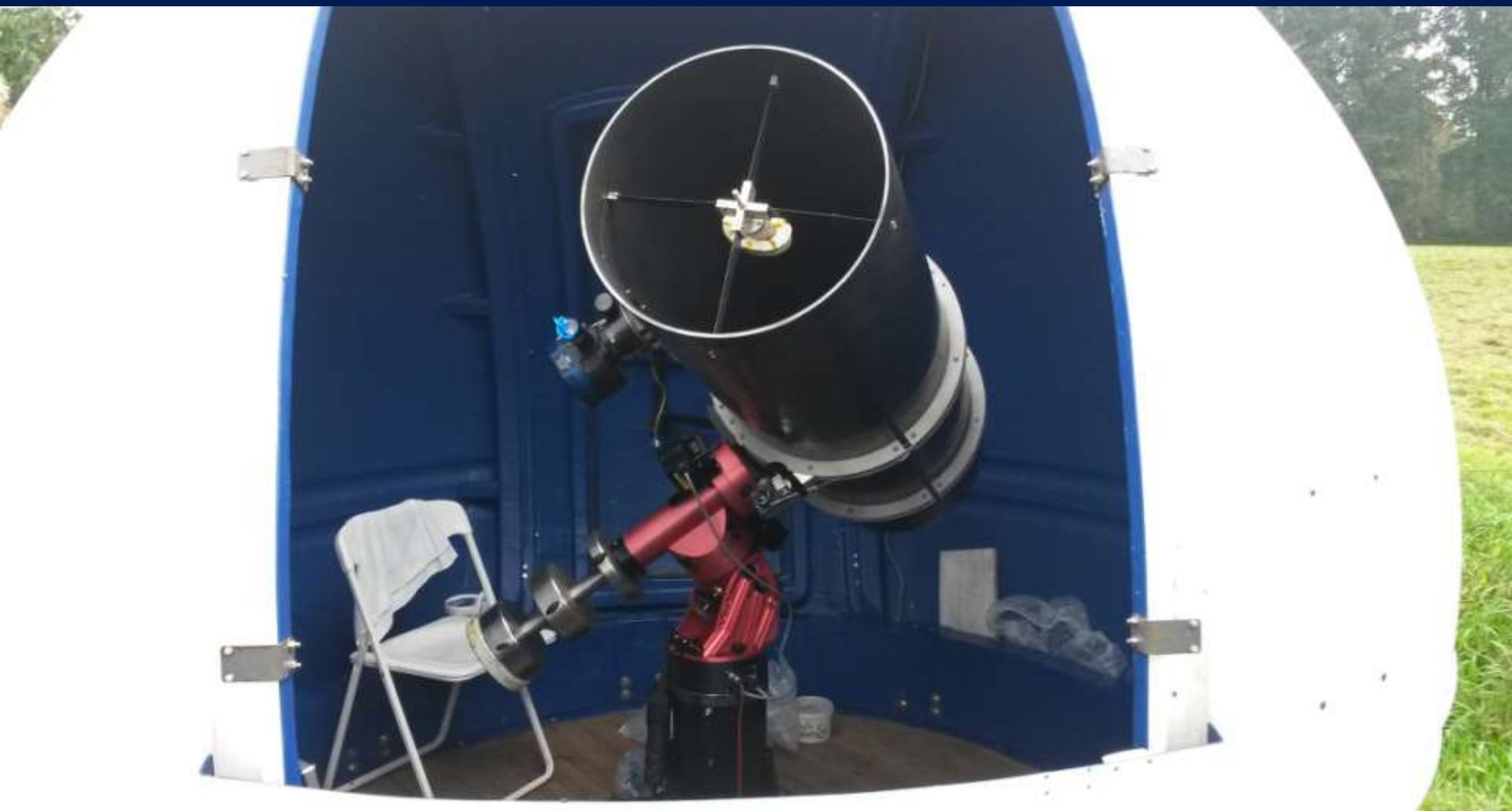
25-9-2017



28-9-2017



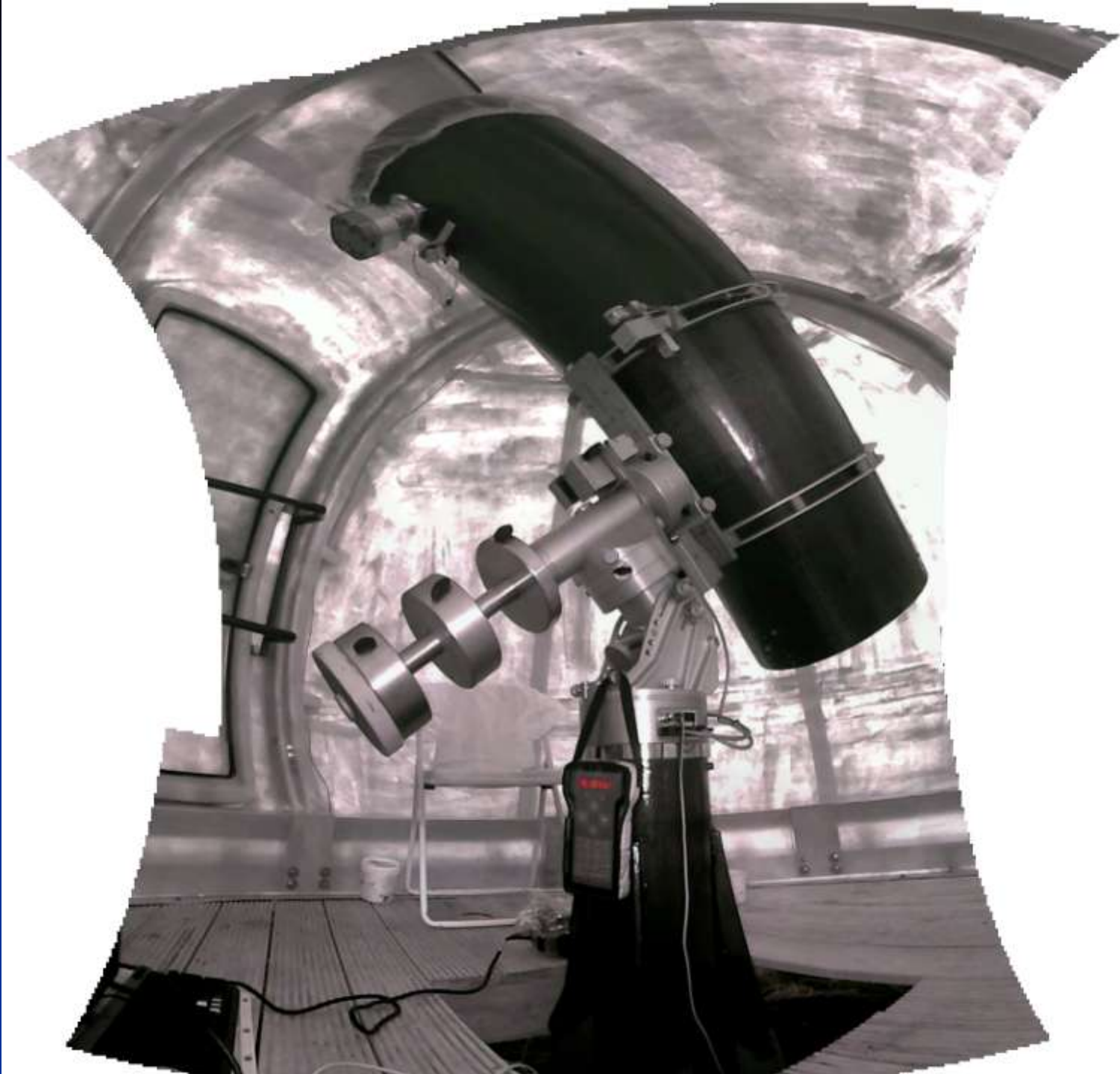
28-9-2017



28-9-2017



7-10-2017





7-10-2017



15-10-2017

Observatory

Ready

Local: 21:38:03

UTC: 19:38:02

LST: 21:42:11

Owner Free

Weather Clear Ca

Shutter Open

Dome Slave

Show/Hide Run Log and

Acquire a Single

Target Name: m 2

Right Asc. (hrs): 19:

Declination (deg): 22:

Exposure (sec): 300

Filter: Luminance

Binning: 1

Telescope

Imager

Activity

Plan



First Light!

15-10-2017



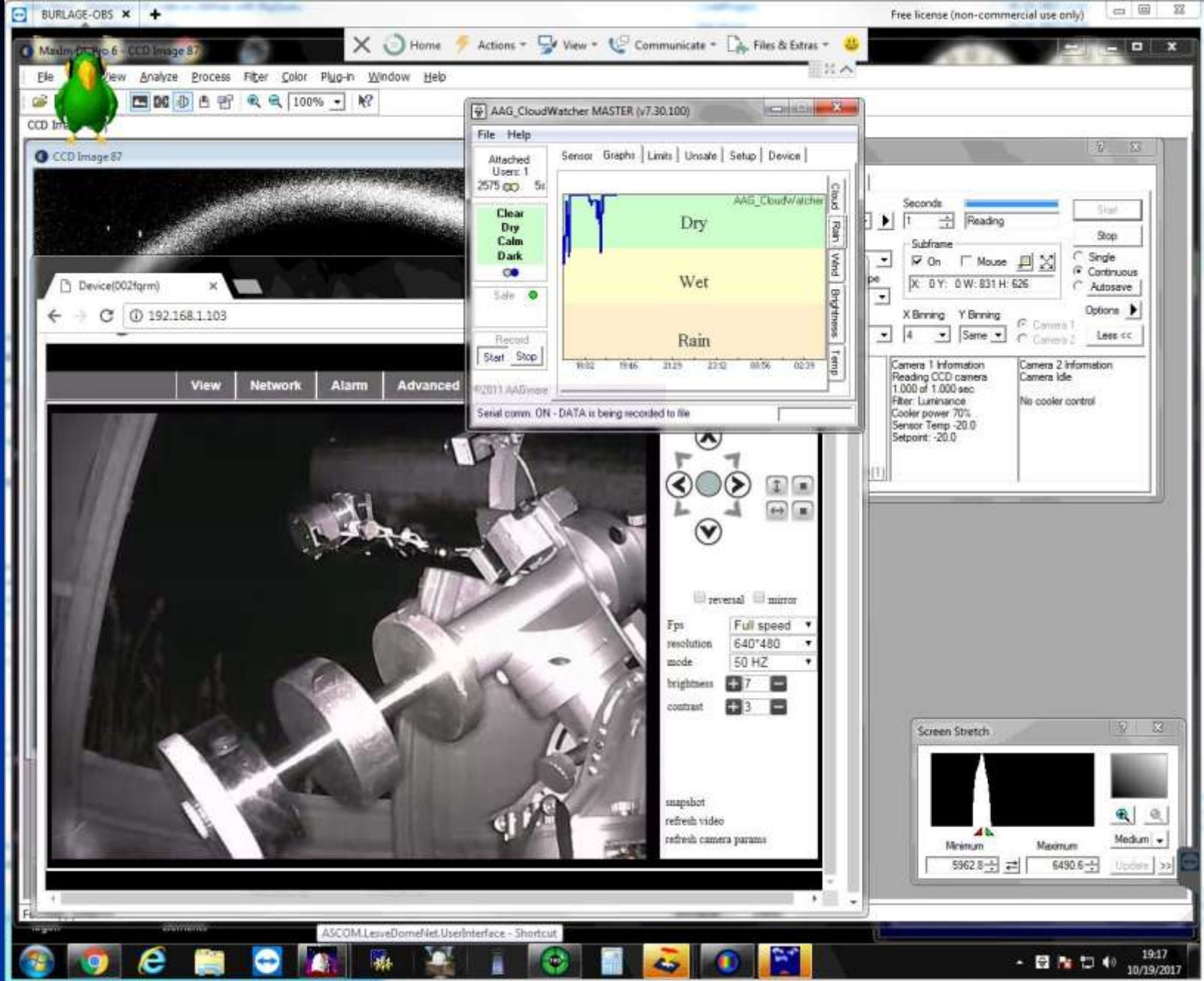
2017 O1 ASASSN1 180s

15-10-2017



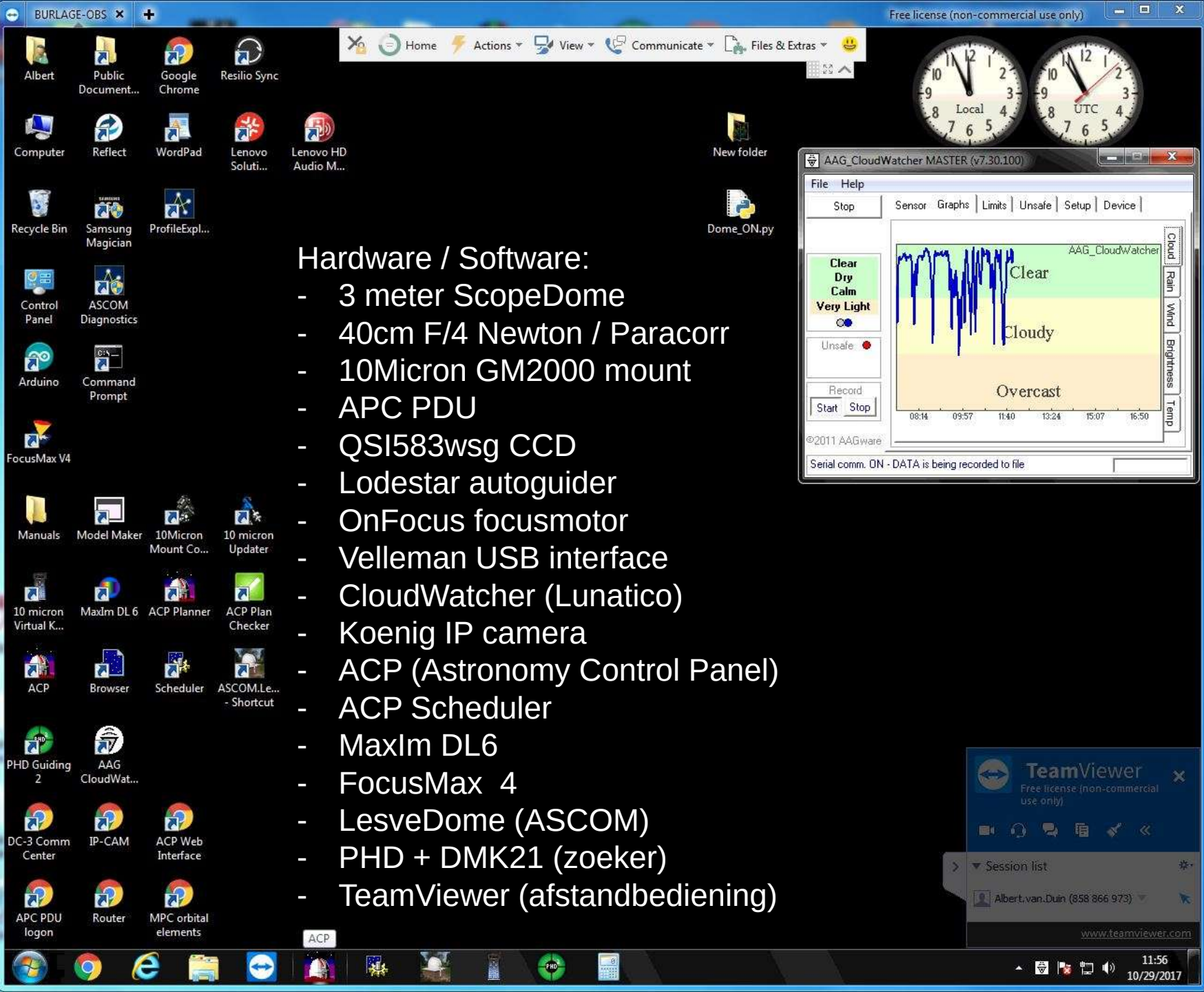
600s RGB ongekalibreerd

15-10-2017



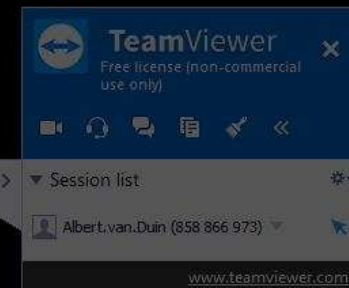
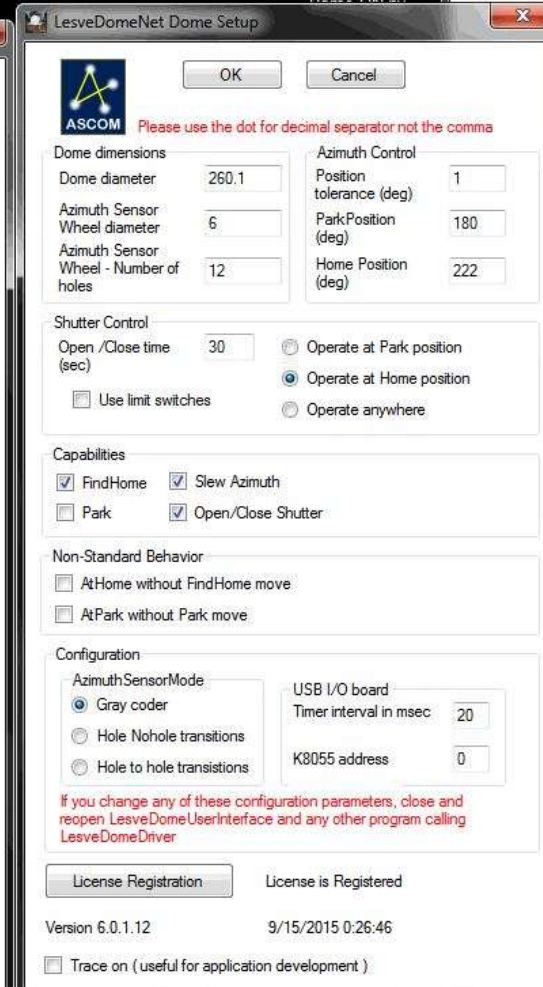
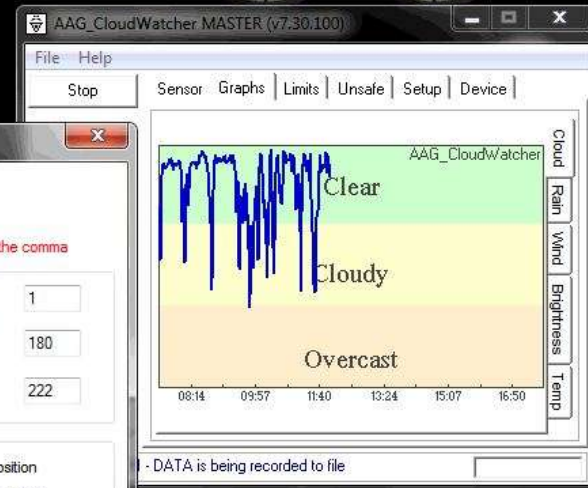
First Remote!

19-10-2017



Hardware / Software:

- 3 meter ScopeDome
- 40cm F/4 Newton / Paracorr
- 10Micron GM2000 mount
- APC PDU
- QSI583wsg CCD
- Lodestar autoguider
- OnFocus focusmotor
- Velleman USB interface
- CloudWatcher (Lunatico)
- Koenig IP camera
- ACP (Astronomy Control Panel)
- ACP Scheduler
- MaxIm DL6
- FocusMax 4
- LesveDome (ASCOM)
- PHD + DMK21 (zoeker)
- TeamViewer (afstandbediening)



Albert

Public ment...

Google Chrome

Resilio Sync

Computer

Reflect

WordPad

Lenovo Soluti...

Lenovo HD Audio M...

Recycle Bin

Samsung Magician

ProfileExpl...

Control Panel

ASCOM Diagnostics

Arduino

Command Prompt

FocusMax V4

Manuals

Model Maker

10Micron Mount Co...

10 micron Updater

10 micron Virtual K...

MaxIm DL 6

ACP Planner

ACP Plan Checker

ACP

Browser

Scheduler

ASCOM.Le... - Shortcut

PHD Guiding 2

AAG CloudWat...

DC-3 Comm Center

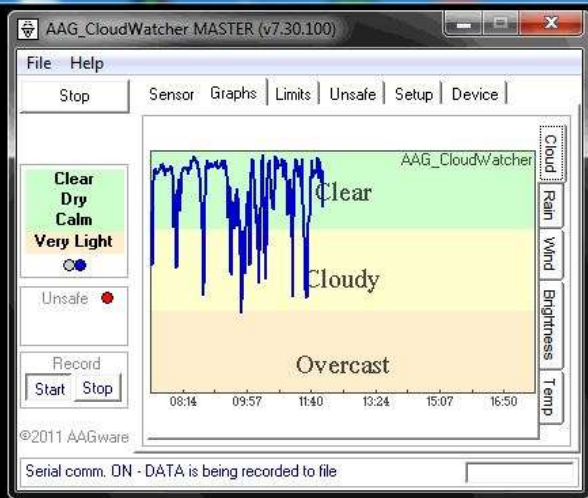
IP-CAM

ACP Web Interface

APC PDU logon

Router

MPC orbital elements



12 1 2 3 4 5 6 7 8 9 10 11

Local

12 1 2 3 4 5 6 7 8 9 10 11

UTC

100%

44%

17%

ACP Observatory Control Software

ACP Telescope Camera Rotator Weather Help

LST: 13:57:31

RA: 19:03:28.5

Dec: +38°53'56"

Az: 072.80

Alt: +37.61

Loc: 11:59:36 29-Oct-17

☒ Local ☐ UTC ☐ Julian ☐ Sidereal Tracking

SLEW EAST ROT

FOCUS DOME WEA

TRACK GUIDE EXP

DIR CA WEB FTP

☐ Display Hour Angle

☒ Display J2000

Rotator

Mechanical Angle: ---

Sky Position Angle: ---

Set Angle 000.0

Slew or Sync (catalog)

Nudge Telescope

Web Access

Activity: ---

User:

Status: Available

Owner:

Use Web Browser

Dome Control

Script

Select the Script ...

Click Browse to select the script to run. Most often this will be AcquireImages.js.

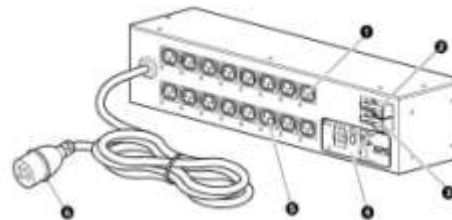
Console

Console output:

Abort Alert Run

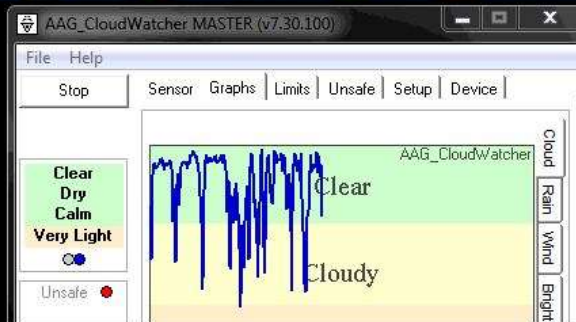


AP7922



- ❶ Bank 1 — Eight IEC 320 C13 outlets
- ❷ 16-A circuit breaker for Bank 1
- ❸ 16-A circuit breaker for Bank 2
- ❹ Display interface
- ❺ Bank 2 — Eight IEC 320 C13 outlets
- ❻ IEC 309, 32A, 250V, 1 — plug with a 12-foot power cord

APC
Power
Distribution
Unit



APC | Switched Rack PDU x

192.168.1.101/NMC/YPIAQE0y9lQwBnJrejZG0g/outletctrl.htm

192.168.1.101 Help | Log Off

Home Device Manager Logs Administration

No Alarms

Load Management
Control
Configuration
Outlet Links
Outlet Groups
Information
Group Configuration
Scheduling
Outlet Manager

Outlet Control

Control Action: No Action

Select Outlets: ☐ All Outlets

State [B]	Outlet	State [B]	Outlet
☐ On	[B1] Computer	☐ Off	[B2] Spare
☐ On	[B1] Monitor	☐ On	[B2] Secondary Heater
☐ Off	[B1] Dome Power	☐ Off	[B2] Spare
☐ On	[B1] 24V 10Micron	☐ Off	[B2] Spare
☐ Off	[B1] 12V OnFocus	☐ Off	[B2] IP-Cam
☐ Off	[B1] Cloudwatcher	☐ Off	[B2] Flat Box
☐ Off	[B1] QSI583 CCD	☐ Off	[B2] Fan Telescope
☐ Off	[B1] Shutter power	☐ On	[B2] WATCHDOG

Next >> Cancel

Link 1 | Link 2 | Link 3

Switched Rack PDU

© 1995 - 2009, American Power Conversion Corp. All rights reserved. Updated: 10/29/2017 at 12:00

APC

Weather Help

EAST ROT
DOME WEA
GUIDE EXP
CA WEB FTP

Play Hour Angle
Play J2000
Oct-17
Sidereal Tracking

Access

Available

Web Browser

Time Control

Select the Script ...

the script to run.
AcquireImages.js

Run

12:00
10/29/2017

StartupObs.js - Notepad

File Edit Format View Help

```
// if low hanging roof (causes exception).
// Bob Denny      29-Feb-2012 GEM:809 Explicitly start Clarity as executable.
// Bob Denny      26-Dec-2012 (for ACP 7.0) No more RotControl.exe, connect
//                rotator via API if configured.
// Bob Denny      30-Jan-2014 GEM:1093 Add RunProgram (for power control),
//                IP*works functions, and sample code. Uniquify log name.
// Bob Denny      02-Sep-2014 GEM:1198 Delay between turning on cooler and
//                setting the temperature (MaxIm 6.05).
// Bob Denny      03-Feb-2015 GEM:1173 Remove old power control, replace with
//                code using the ASCOM Digital Loggers switch driver. GEM:1156
//                code for SynAccess NetBooter NP8 and friends.
// Bob Denny      18-Feb-2015 Typo in object ID and Connected=true for Digital
//                Logger ASCOM driver.
// Bob Denny      19-May-2015 Throw errors on failures here so scheduler goes
//                to Operator Intervention.
// -----

var FSO;                                // FileSystemObject used in several functions

function main()
{
    var i;

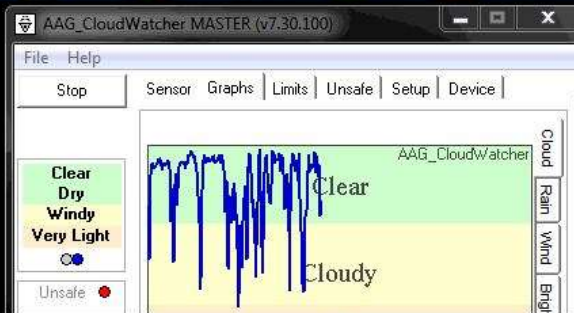
    FSO = new ActiveXObject("Scripting.FileSystemObject");

    Console.LogFile = Prefs.LocalUser.DefaultLogDir + "\\Scheduler\\StartupObs-" +
        util.FormatVar(new Date().getVarDate(), "yyyymmdd") + "@" +
        util.FormatVar(new Date().getVarDate(), "HhNnSs") + ".log";
    Console.Logging = true;

    // =====
    // HERE IS WHERE YOU ADD CODE TO TURN POWER ON AS NEEDED
    // =====

    setPDUSwitchOn(3); // Switch Dome power on with APC AP7922 PDU port 3
    util.waitForMilliseconds(1000);
    setPDUSwitchOn(8); // Switch Shutter power on with APC AP7922 PDU port 8
    util.waitForMilliseconds(1000);
    setPDUSwitchOn(5); // Switch OnFocus power on with APC AP7922 PDU port 5
    util.waitForMilliseconds(1000);
    setPDUSwitchOn(9); // Switch LodeStar power on with APC AP7922 PDU port 9
    util.waitForMilliseconds(1000);
    setPDUSwitchOn(10); // Switch Secondary heating on with APC AP7922 PDU port 10
    util.waitForMilliseconds(1000);
    setPDUSwitchOn(7); // Switch CCD power on with APC AP7922 PDU port 7
    Console.WriteLine("waiting for CCD to boot");
    util.waitForMilliseconds(10000); // wait for CCD to boot
}
```

Run



Device(002fqrm)

192.168.1.103

IP Camera

Reboot Device | Home

View Network Alarm Advanced Maintain



reversal mirror

Fps Full speed

resolution 640*480

mode 50 HZ

brightness +7 -

contrast +3 -

snapshot

refresh video

refresh camera params

Weather Help

EAST	ROT
DOME	WEA
GUIDE	EXP
CA	WEB
FTP	

Display Hour Angle

Display J2000

Oct-17

Sidereal Tracking

Access

Available

Web Browser

Home Control

Select the Script ...

Get the script to run.

AcquireImages.js

Run

Burlage

Welcome Albert van Duin

Live Observing

Single Object Imaging

- Single Image
- Color Series
- Multiple Objects (Plan)
- Cal Frames (Dark/Bias)
- Standard Sky Flats
- One-Time Sky Flats
- Special Tasks
 - System Status Disp.
 - Setup Sky Flats
 - Release the Obs.
 - Deep Sky Catalog
 - Obs. Plan Checker

Scheduled

- Schedule Browser
- Astro-Imaging
- Single Series
- Upload RTML

My Documents

Shared Files

Observatory Info

Help Resources

Toolbox

- Obs. Plan Checker
- Sky Flat Analyzer
- AAVSO Chart
- Utility Tasks

System Status

[Help](#) Hover the mouse over the links to see what they do

Observatory	Telescope	Imager	Activity	Plan
Offline	Stopped	Offline	Idle	Set
Local: 12:08:00	HA: -05:06.0	Filter	FWHM	Target
UTC: 11:08:00	RA: 19:11:53.25	Binning		Repeat
LST: 14:05:56	Dec: 38°53'43.8"	Guider		Filter
Owner Free	Az: 072.81°	Offline		Count
Weather	Alt: 37.61°	Interval (sec)		Tracking Errors
Shutter Closed	GEM: East	Error Ex:		
Dome Home	Air: 1.636	(pix) Ey:		

[Show/Hide Run Log and Abort Control](#)

Single Object Color Series

[Help](#)Target Name: [Get Coordinates or Ephemeris](#)Right Asc. (hrs): [Deep Sky Catalog Search](#)Declination (deg): [\(coordinates in J2000\)](#)

Use	Count	Filter	Duration	Binning	
☒	6	Luminance	600	1	☒ Auto focus at start ☐ Auto calibrate
☒	3	Red	600	1	☐ Periodic auto focus every 90 minutes
☒	3	Green	600	1	Dithering: -1.0 (main imager pixels rms, -1.0 for auto)
☒	3	Blue	600	1	☐ Dusk Flats ☐ Dawn Flats

[More](#)[Acquire Images](#)

Burlage

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Special Tasks

[System Status Disp.](#)[Setup Sky Flats](#)[Release the Obs.](#)[Deep Sky Catalog](#)[Obs. Plan Checker](#)

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System Status

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Hover the mouse over the links to see what they do

Observatory

Telescope

Imager

Activity

Plan

Off Time

Local: 11

UTC: 11

LST: 14

Owner: F

Weather:

Shutter:

Dome:

[Show/Hide R](#)

Single O

[Help](#)

Target Name:

Right Asc. (hrs)

Declination (de

Use Count Filter Duration Binning

☒ 6

Luminance

600

1

1

☒ Auto focus at start☐ Auto calibrate☒ 3

Red

600

1

1

☐ Periodic auto focus every 90 minutes☒ 3

Green

600

1

1

Dithering: -1.0 (main imager pixels rms, -1.0 for auto)

☒ 3

Blue

600

1

1

☐ Dusk Flats ☐ Dawn Flats[More](#)[Acquire Images](#)

Beilen

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Observatory	Telescope	Imager	Activity	Plan from Form
In use	Sidereal Track	Exp 342/350 s	Observing	Set
Local: 20:13:35			FWHM	Target m 76
UTC: 19:13:35	HA: 00:07,5	Filter Luminance		Repeat
LST: 01:49:49	RA: 01:42:21,84	Binning 1:1		Filter Luminance (1/1)
Owner Albert van D	Dec: 51° 34' 10,8"	Cooler off		Count 1/1
Weather Clear Calm	Az: 222,09°	Guider		Tracking Errors
	Alt: 88,27°	Guiding		
	GEM: West	Interval (sec) 3,00		
	Air: 1,000	Error Ex: -0,18 Ey: -0,26		

[Show/Hide Run Log and Abort Control](#)

Acquire a Single Image

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Target Name: m 76

[Get Coordinates or Ephemeris](#)

Right Asc. (hrs): 01:42:18,00

[Deep Sky Catalog Search](#)

Declination (deg): 51:34:58,8

(coordinates in J2000)

Duration (sec): 350

Filter: Luminance

Binning: 1

ACP Expert at Burlage

Create New Plan

- MEDUSA-Blue 600s (1-3)
- MEDUSA-Blue 600s (4-6)
- MEDUSA-Green 600s (1-3)
- MEDUSA-Green 600s (4-6)
- MEDUSA-H-alpha 1200s (1)
- MEDUSA-H-alpha 1200s (2)
- MEDUSA-H-alpha 1200s (3)
- MEDUSA-H-alpha 1200s (4)
- MEDUSA-H-alpha 1200s (5)
- MEDUSA-H-alpha 1200s (6)
- MEDUSA-H-alpha 1200s (7)
- MEDUSA-H-alpha 1200s (8)
- MEDUSA-H-alpha 1200s (9)
- MEDUSA-Luminance 600s (10-12)
- MEDUSA-Luminance 600s (1-3)
- MEDUSA-Luminance 600s (13-15)
- MEDUSA-Luminance 600s (16-18)
- MEDUSA-Luminance 600s (4-6)
- MEDUSA-Luminance 600s (7-9)
- MEDUSA-Red 600s (1-3)
- MEDUSA-Red 600s (4-6)
- ABELL 2666 CLUSTER
- ABELL 31
- ABELL 39
- ABELL 85 E

Current Observing Projects

Click a Project name below to see its Plans
Hovering the mouse will reveal info in many places

PROJECT	OBSERVER	PLNS	IMGS	TIME	RUN	CMPL	PEND	DEFD	FAIL	DIS
ABELL 21 MEDUSA	Albert van Duin	21	45	9.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
ABELL 2666 CLUSTER	Albert van Duin	13	36	6.00h	0.0%	0.0%	92.3%	0.0%	0.0%	7.7%
ABELL 31	Albert van Duin	30	54	12.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
ABELL 39	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
ABELL 85 E	Albert van Duin	9	9	3.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
ABELL 85 W	Albert van Duin	9	9	3.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CatsEyeNebula	Albert van Duin	16	96	7.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CEDERBLAD 21	Albert van Duin	21	45	9.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
CheshireCatCluster	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
HICKSON 44	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 2497	Albert van Duin	6	18	3.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 2574	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 410	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 417	Albert van Duin	21	45	9.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 423 TEARDROP	Albert van Duin	6	18	3.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
IC 447	Albert van Duin	21	45	9.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
LBN 847	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 1	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 101	Albert van Duin	9	9	3.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 102	Albert van Duin	12	36	6.00h	---	---	---	---	---	---
M 104	Albert van Duin	12	36	6.00h	---	---	---	---	---	---
M 105	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
m 51	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 57	Albert van Duin	45	69	17.00h	0.0%	24.4%	75.6%	0.0%	0.0%	0.0%
M 74	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 78	Albert van Duin	18	54	9.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 95	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
M 97	Albert van Duin	15	15	5.00h	0.0%	86.7%	6.7%	0.0%	6.7%	0.0%
NGC 1514	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
NGC 1530	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
NGC 185 globulars	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
NGC 1931	Albert van Duin	12	36	6.00h	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%

Onderwerp	Afzender	Datum	Grootte
• [Burlage] ACPs Startup	ACP Scheduler	Ma 22:00	3 KB
• [Burlage] ACPs Plan NGC 2392-H-alpha 1200s (1) Completed	ACP Scheduler	Ma 22:27	3 KB
• [Burlage] ACPs Plan NGC 2392-H-alpha 1200s (3) Completed	ACP Scheduler	Ma 22:49	3 KB
• [Burlage] ACPs Plan NGC 2392-H-alpha 1200s (2) Completed	ACP Scheduler	Ma 23:11	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (13) Failed	ACP Scheduler	Ma 23:31	3 KB
• [Burlage] ACPs Weather	ACP Scheduler	Ma 23:31	3 KB
• [Burlage] ACPs Weather	ACP Scheduler	Vandaag 00:21	3 KB
• [Burlage] ACPs Startup	ACP Scheduler	Vandaag 00:22	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (6) Failed	ACP Scheduler	Vandaag 00:30	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (13) Completed	ACP Scheduler	Vandaag 00:52	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (4) Completed	ACP Scheduler	Vandaag 01:14	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (5) Failed	ACP Scheduler	Vandaag 01:15	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (10) Failed	ACP Scheduler	Vandaag 01:16	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (12) Failed	ACP Scheduler	Vandaag 01:16	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (2) Failed	ACP Scheduler	Vandaag 01:17	3 KB
• [Burlage] ACPs Plan M 97-H-alpha 1200s (15) Failed	ACP Scheduler	Vandaag 01:18	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (13) Failed	ACP Scheduler	Vandaag 01:20	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (4) Failed	ACP Scheduler	Vandaag 01:21	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (8) Failed	ACP Scheduler	Vandaag 01:22	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (14) Failed	ACP Scheduler	Vandaag 01:23	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (10) Failed	ACP Scheduler	Vandaag 01:24	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (12) Failed	ACP Scheduler	Vandaag 01:25	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (1) Failed	ACP Scheduler	Vandaag 01:26	3 KB
• [Burlage] ACPs Weather	ACP Scheduler	Vandaag 01:26	3 KB
• [Burlage] ACPs Weather	ACP Scheduler	Vandaag 02:59	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (3) Failed	ACP Scheduler	Vandaag 03:07	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (5) Failed	ACP Scheduler	Vandaag 03:08	3 KB
• [Burlage] ACPs Plan NGC 6543-H-alpha 1200s (6) Failed	ACP Scheduler	Vandaag 03:08	3 KB
• [Burlage] ACPs Plan NGC 7129-H-alpha 1200s (8) Completed	ACP Scheduler	Vandaag 03:32	3 KB
• [Burlage] ACPs Plan NGC 7129-H-alpha 1200s (3) Completed	ACP Scheduler	Vandaag 03:59	3 KB
• [Burlage] ACPs Plan NGC 7129-H-alpha 1200s (6) Completed	ACP Scheduler	Vandaag 04:20	3 KB
• [Burlage] ACPs Plan NGC 7129-H-alpha 1200s (2) Failed	ACP Scheduler	Vandaag 04:30	3 KB
• [Burlage] ACPs Weather	ACP Scheduler	Vandaag 04:30	3 KB
• [Burlage] ACPs Shutdown	ACP Scheduler	Vandaag 05:27	3 KB

- ToDo list:
- Extra ventilatie
- All sky camera
- SQM
- Weerstation
- Hoofdspiegelverwarming voor vochtige seizoenen
bestuurd door weerstation (dauwpunt)



Bedankt voor jullie aandacht

