ShaRA Project

Working Paper rev_1 2023/05/29

ShaRA#5: Where do we go?

A project by Astro T-Rex and a «non Venetian»

Instrumentation

T1 @ ElSauce (Chile)
Chilescope service

Filters:
Astrodon Halpha/Sii/Oiii 5nm
RGB Turen Balance Gen II

Telescope	Type	CCD Camera	Price per hour
Telescopio 1	RC-1000 f/6.8 (6800mm focal lenght)	FLI Proline 16803 (37x37mm)	150$
Telescopio 2/3	Newton 500 f/3.8 (1900mm focal lenght)	FLI Proline 16803 (37x37mm)	60$
Telescopio 4	Tele 100mm f/2 (200mm focal lenght)	FLI Proline 16200 (27x22mm)	40$
Telescopio 5	RH200 f/3 (600mm focal lenght)	FLI Proline 16200 (27x22mm)	50$

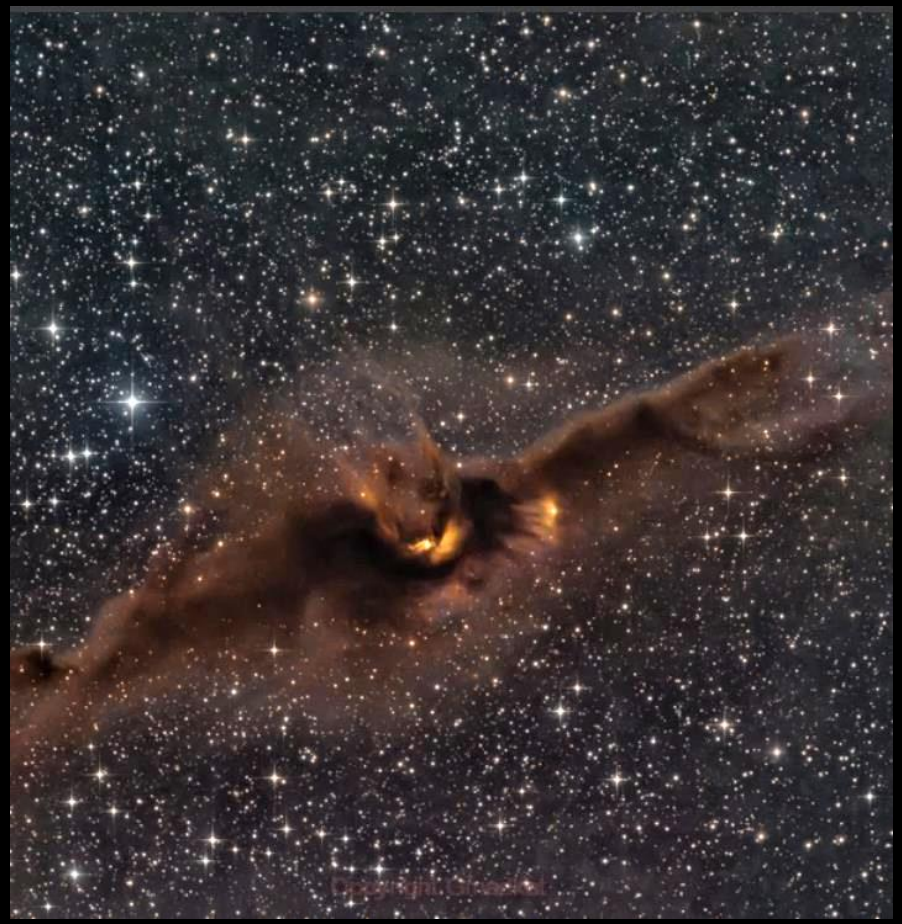
Target selection

FoV T3

FoV T1

Molecular cloud in Corona Australis
And Globular Cluster NGC6723

Target selection



FoV T3 Chilescope

FoV T1 Chilescope
(no available images with this focal lenght)

Dark Nebula LDN 43

Target selection

T3 Chilescope

T1 Chilescope

Helix Nebula

(one of the most photographed nebula of the Sky)

Target selection

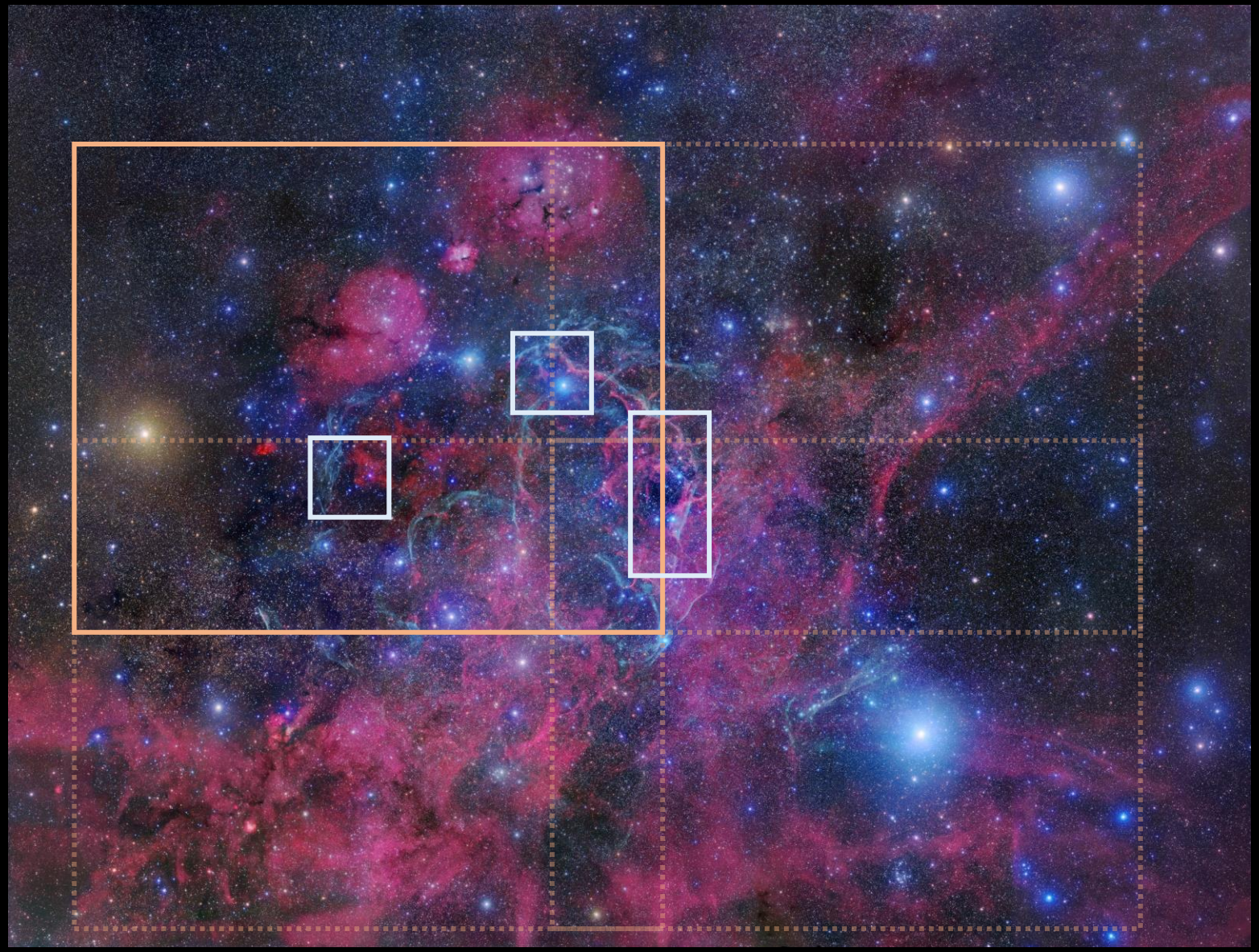
Gemini Telescope 8m

HST

NGC6751 Planetary Nebula

(no good amateur images available)

Target selection



VELA Supernova Remnant & its Pulsar

Wide field (mosaic with T4, framing TBD)
http://www.robgendlerastropics.com/VelamosaicLL.html

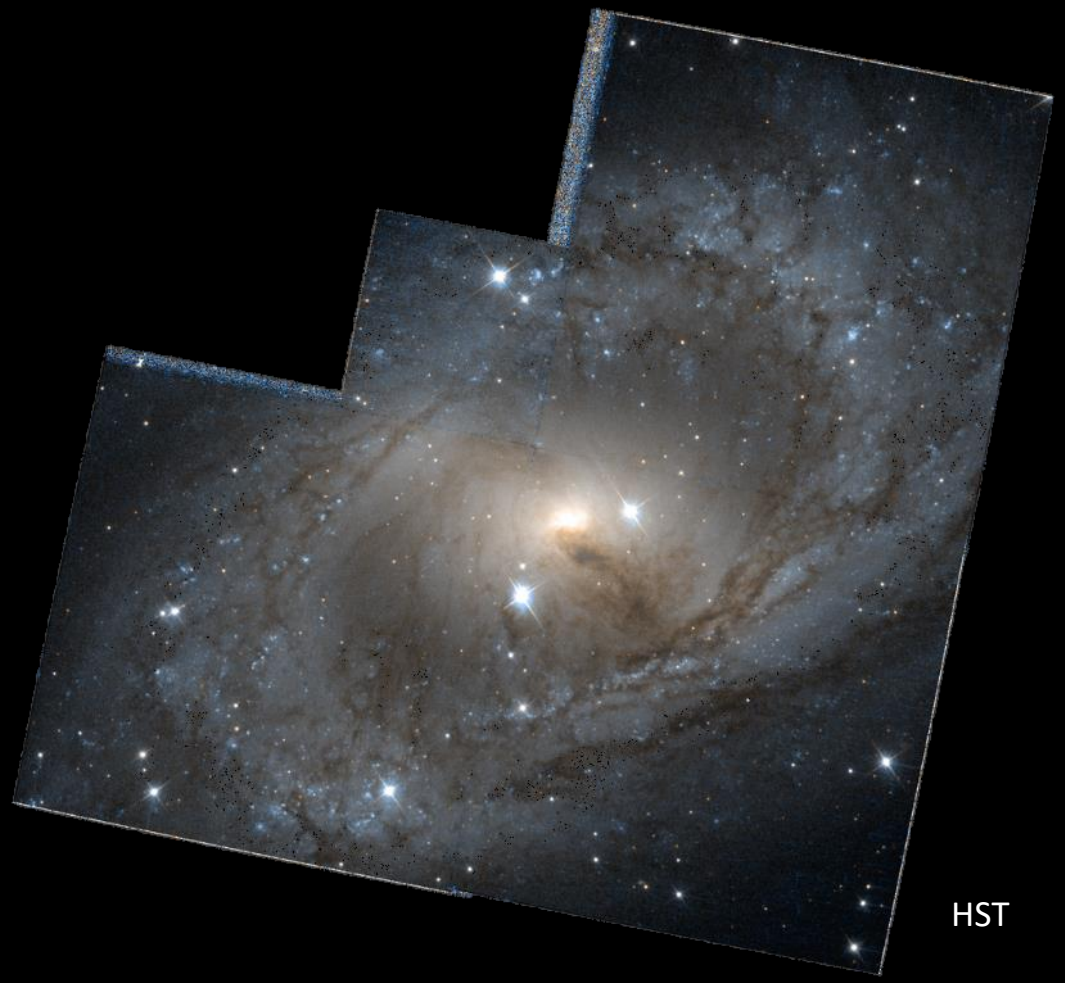
Target selection

RC1000

HST

NGC4038/9 Interacting galaxies (Antennae)

Target selection

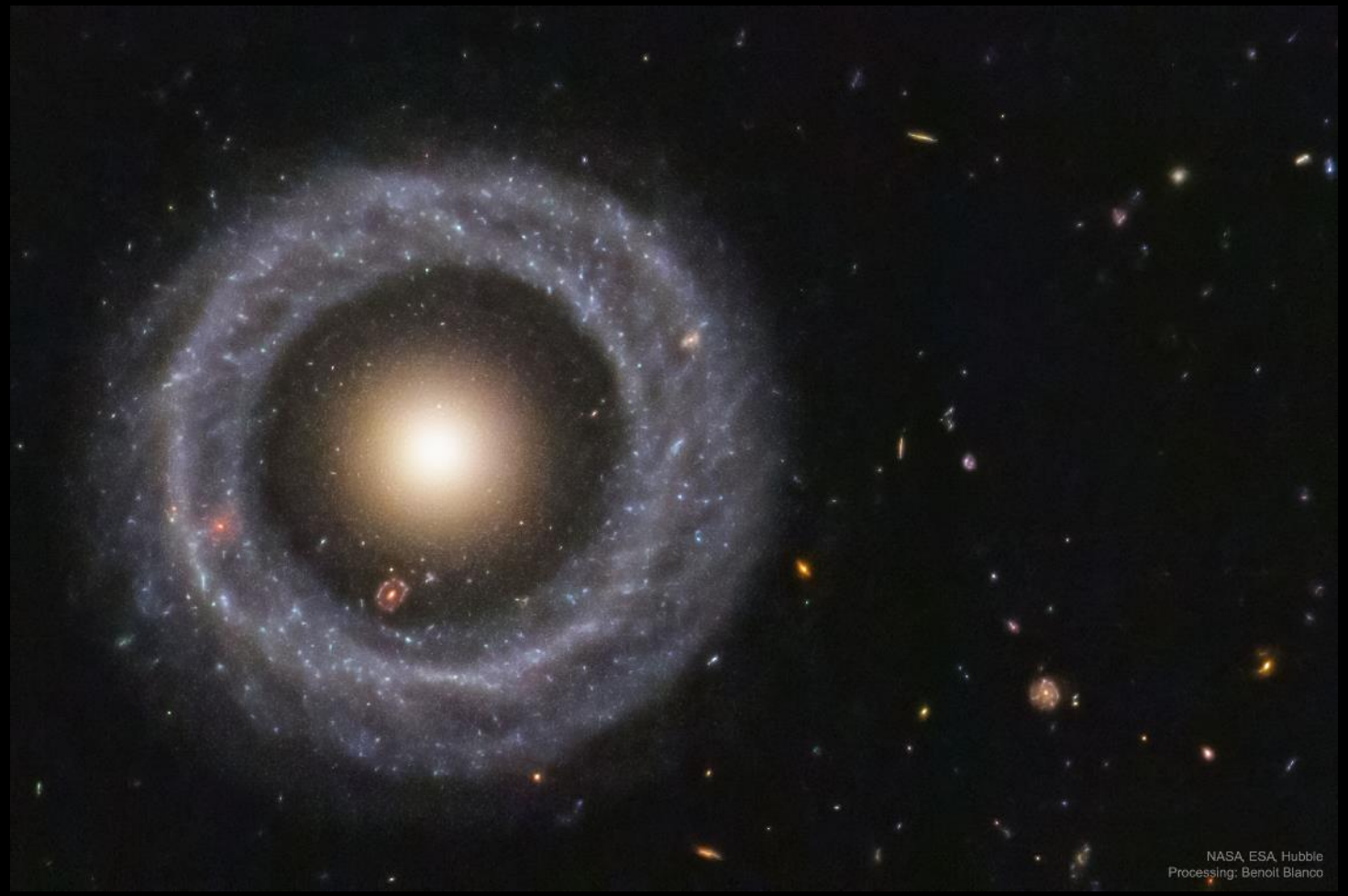


HST

NGC6300 Syfert Type II Galaxy

Ganymed 60cm-Hypergraph in secondary focus, f=4800 mm

Target selection



HST

NO T1/T2-3 IMAGE AVAILABLE

SW 12" Quattro f/4

Hoag’s object

Target selection

FoV T3

FoV T1

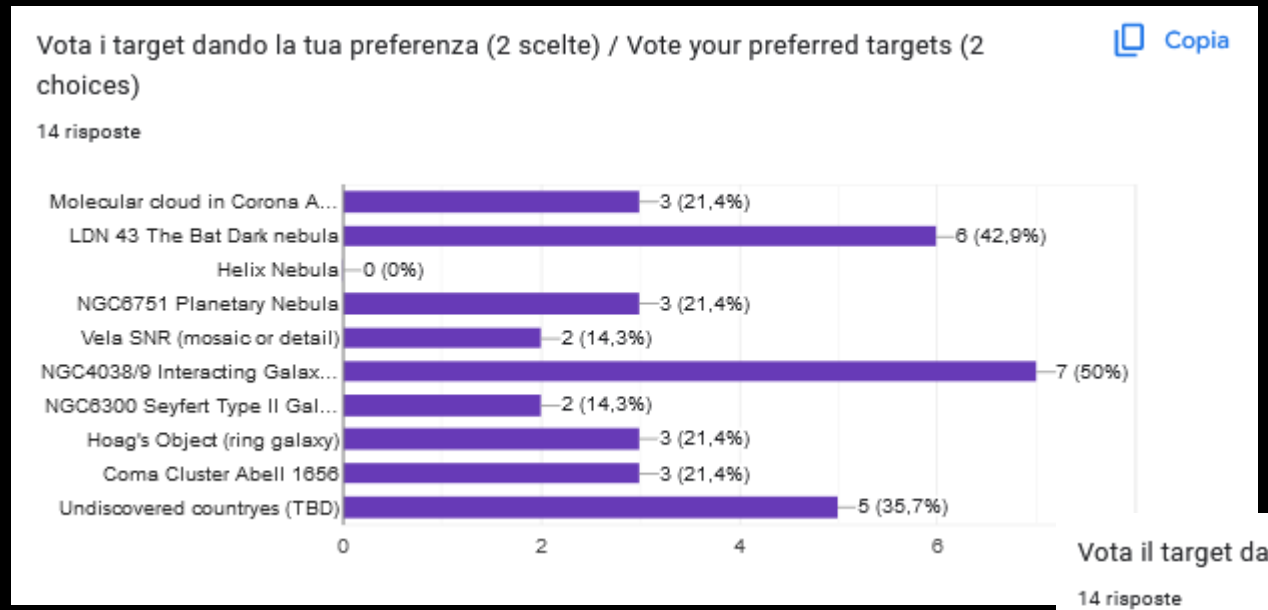
Coma Cluster Abell 1656

Target selection

UNDISCOVERED COUNTRY
H-alpha regio, close to white dwarf….in order to find a Oiii bubble!!!!!!!!!!!!!!!!!!

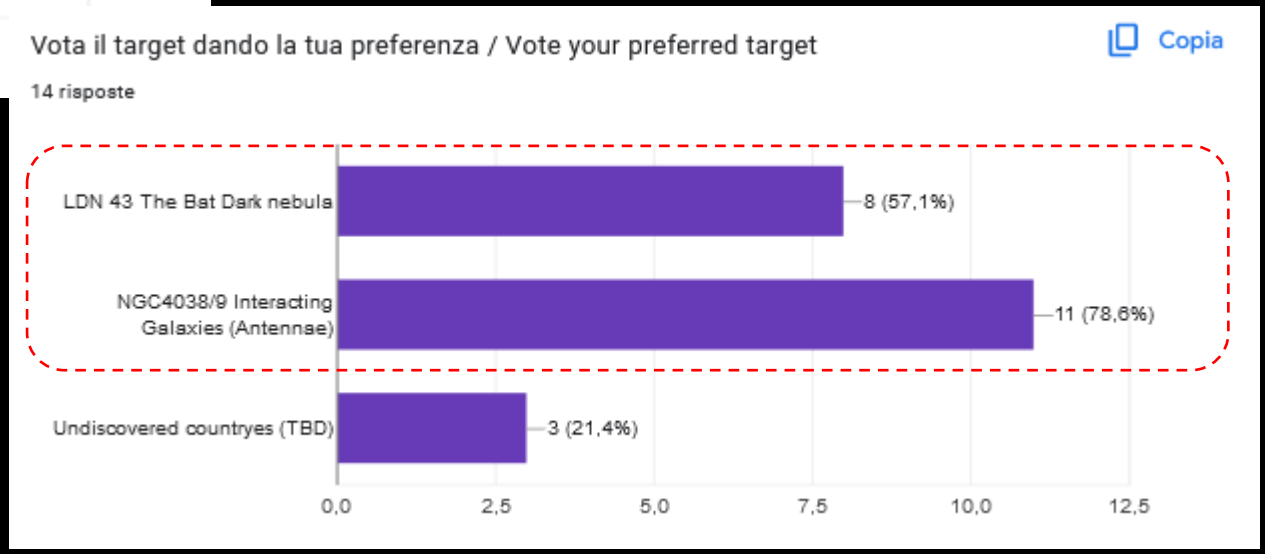
TBD....

Selected targets and Budget

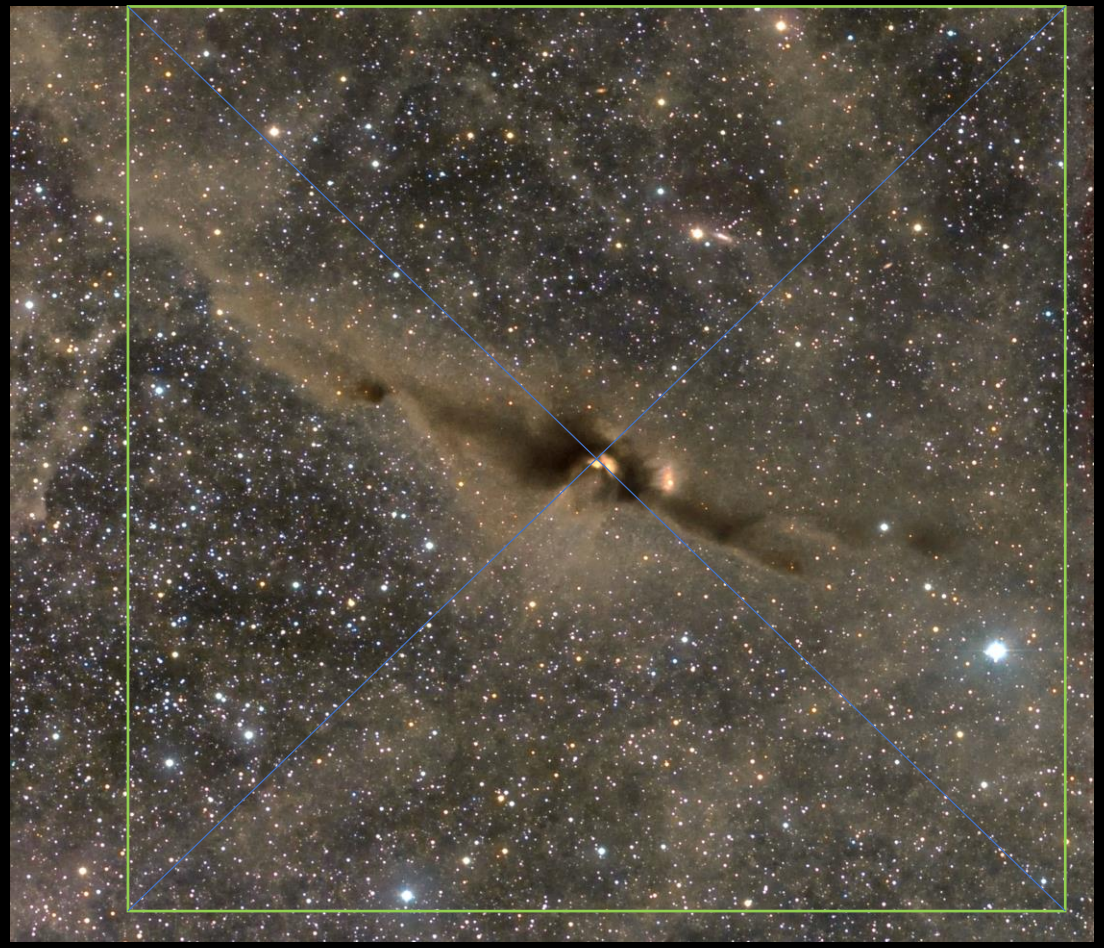


Potential budget: 600/650€ > 750/850pts

First and final selection



Targets & FoV



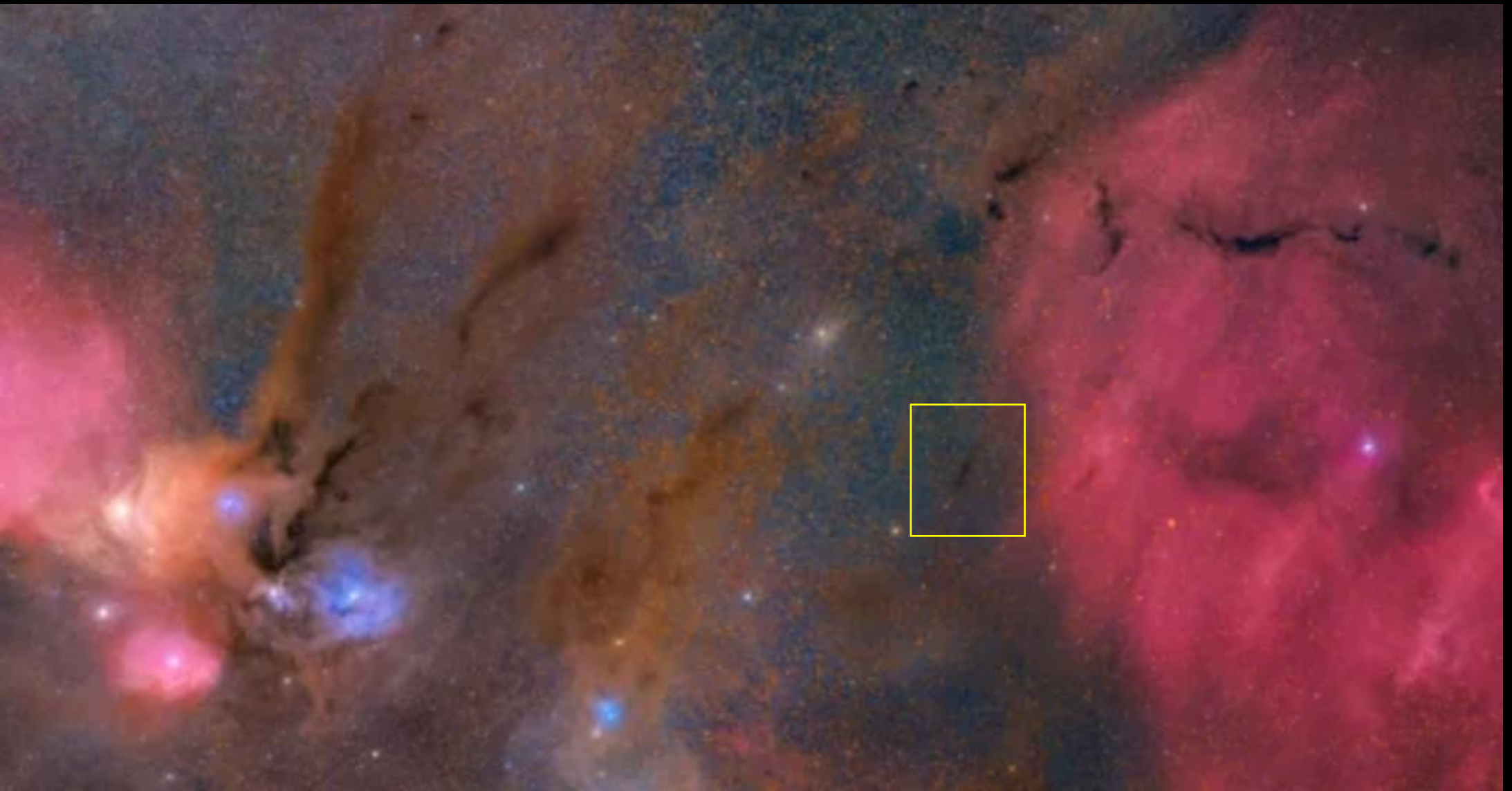
Initial planning:

10x300s R bin1
10x300s G bin1
10x300s B bin1

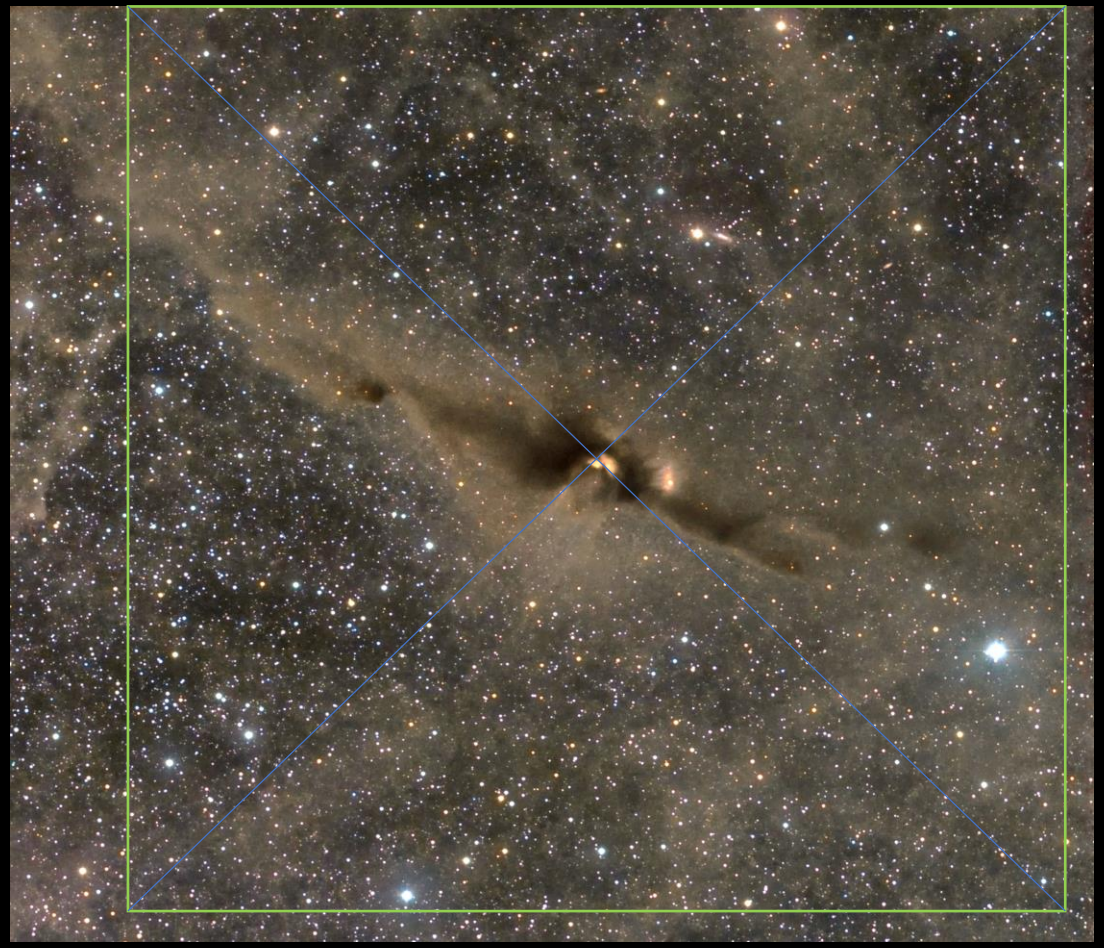
34x300s L bin1

Total: 5.3 hours (174 points)

Targets & FoV



Targets & FoV



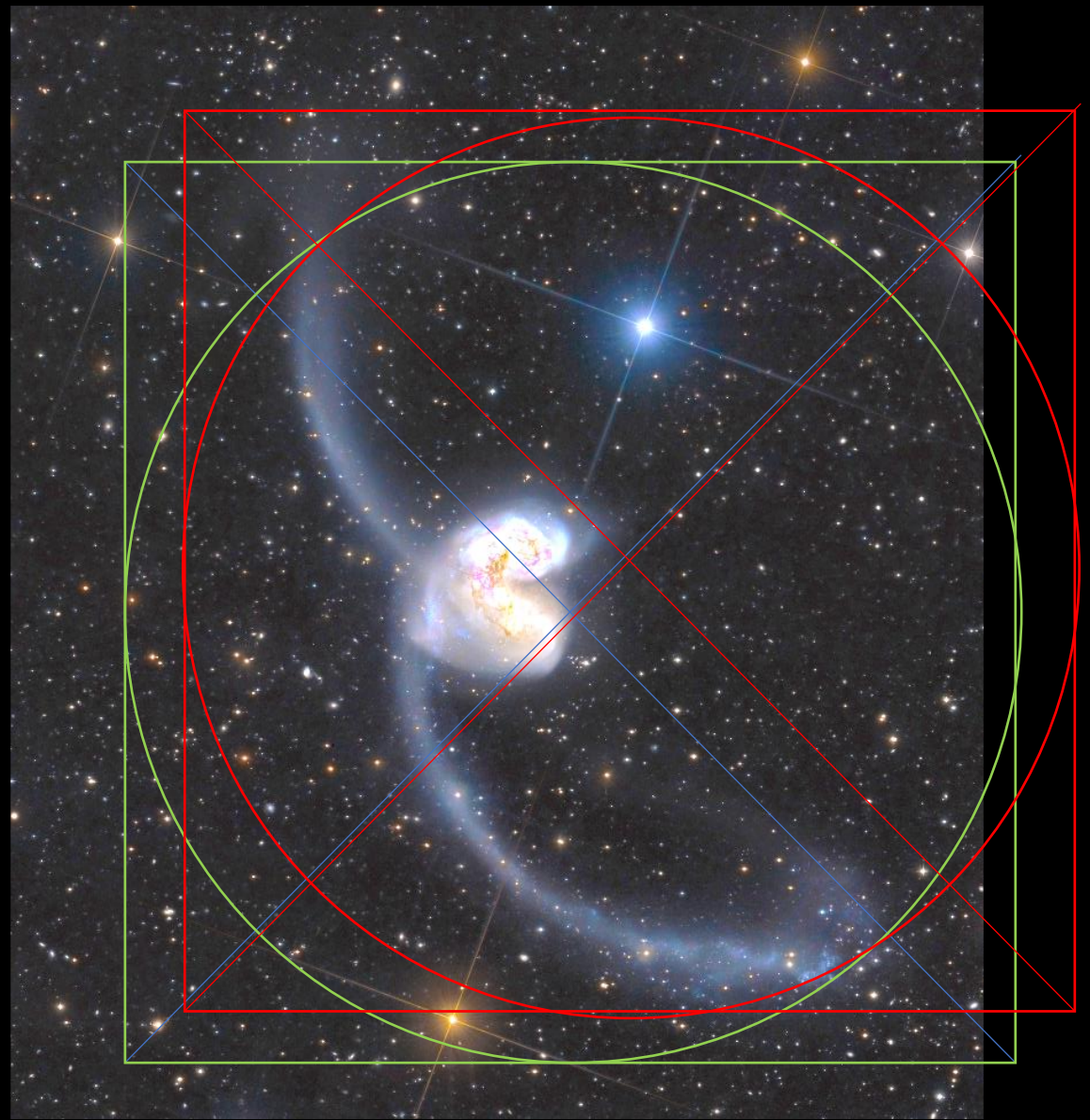
Final planning:

15x300s R bin1
15x300s G bin1
11x300s B bin1

48x300s L bin1

Total: 7.4 hours (240 points)

Targets & FoV



Initial planning:

8x600s R bin1
9x600s G bin1
9x600s B bin1

8x600s H bin2

25x600s L bin1

Total: 10 hours (630 points)