

# DIY Astronomy: Eldorado Star Party 1/12/18



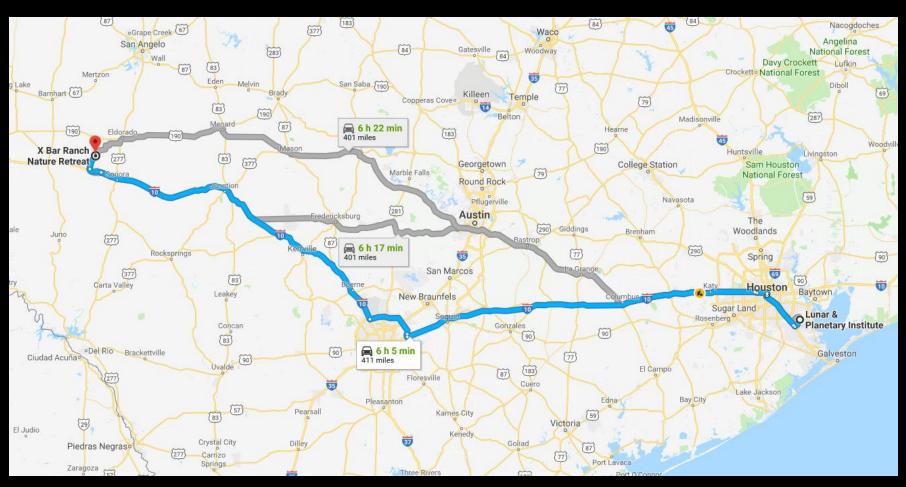
## The best kept secret in Texas astronomy...

Oct. 16
To
Oct. 22

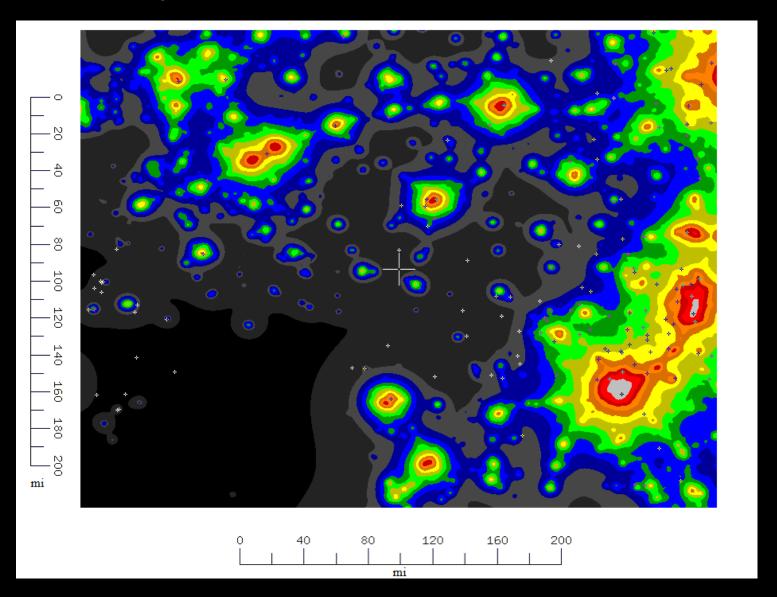


6 Nights:
Monday
To
Saturday

# Where is the Eldorado Star Party? Held at X-Bar Ranch



## Why would we want to drive 6 hours?



Clear Sky Clock / Chart for ESP

#### Information:

- ⇒ Hosted by X-Bar Ranch, Meador Family
- ⇒ Tent camp, RV, some rooms
- ⇒ Food provided, or bring your own
  - ⇒ Snack area at night (honor system)
  - ⇒ BBQ provided by ranch on last day
- $\Rightarrow$  137 attendees
- ⇒ Speakers
- ⇒ Hiking trails
- ⇒ Door prizes (including some high end items)
- ⇒ Things to do during the day
  - ⇒ Day trips to nearby towns

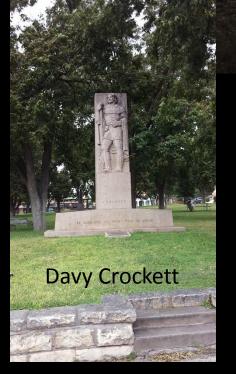
#### Things to do during the day

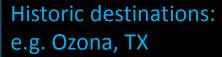
Hanging around ranch

Hiking Trails: Thanksgiving Hill











Caverns of Sonora



# **Observing Field**









#### Astrophotography at the Eldorado Star Party

#### **Three Configurations**

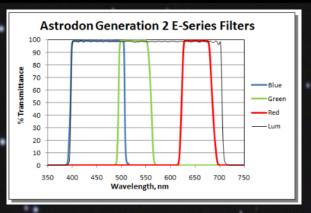


200mm, f/8 1600mm fl Ritchey Chretien CCD Camera LRGB 80mm, f/7.5 600mm fl Refractor CCD Camera LRGB

72mm, f/3.2, 200mm fl, Camera Lens, DSLR

#### 200mm, f/8, Ritchey Chretien





CCD Camera, LRGB Filters







#### Object moving through M74

#### New discovery? Or known object?

- Located at +16° Declination
- Moving East / West
- => Could be an asteroid

How to find out if a known object: Minor Planet Center webpage

Enter information:

RA: 01h 36m 42s, DEC: 15° 47′ 00″

Date: 10/22/17; Time: 5:16 GMT

Speed: 28 pix x 0.82'' / pix in 40 min => 34.5'' / hr

Object designation	R.A. h m s	Decl. V	Offsets R.A. Decl.	Motion/hr Orbit R.A. Decl.	Further observations? Comment (Elong/Decl/V at date 1)
(32704) 2140 T-2 (431073) 2006 CQ13 (462615) 2009 OA12 (66233) 1999 CC156 (300232) 2006 YL5	01 36 21.4 +1 01 36 45.0 +1 01 36 11.7 +1	15 44 48 17.4 15 51 49 21.3 15 36 46 21.5 15 47 10 19.1 15 50 17 19.5	9.3W 4.8N 3.6W 10.2S 11.6W 0.2N	32- 12- 70 33- 18- 70 36- 18- 140	None needed at this time.

#### 2140 T-2 closest match

Measured Actual

RA: 01h 36m 42s 01h 36m 47.5s

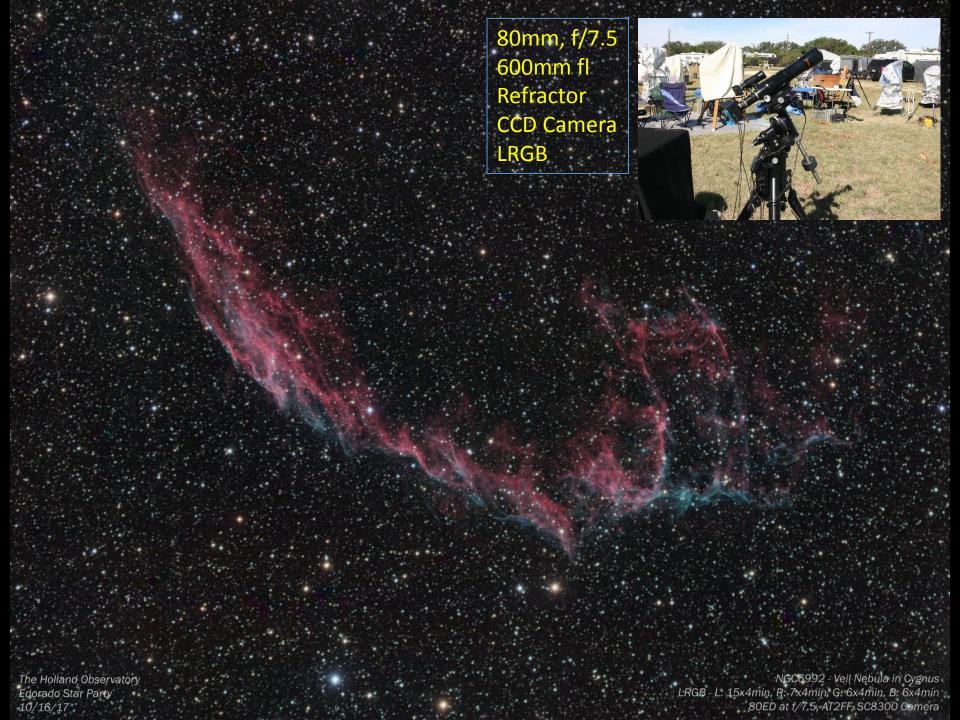
DEC: 15° 47′ 00" 15° 44′ 48"

Motion: 34.5"/ hr 31" / hr

#### Minor Planets Discovered

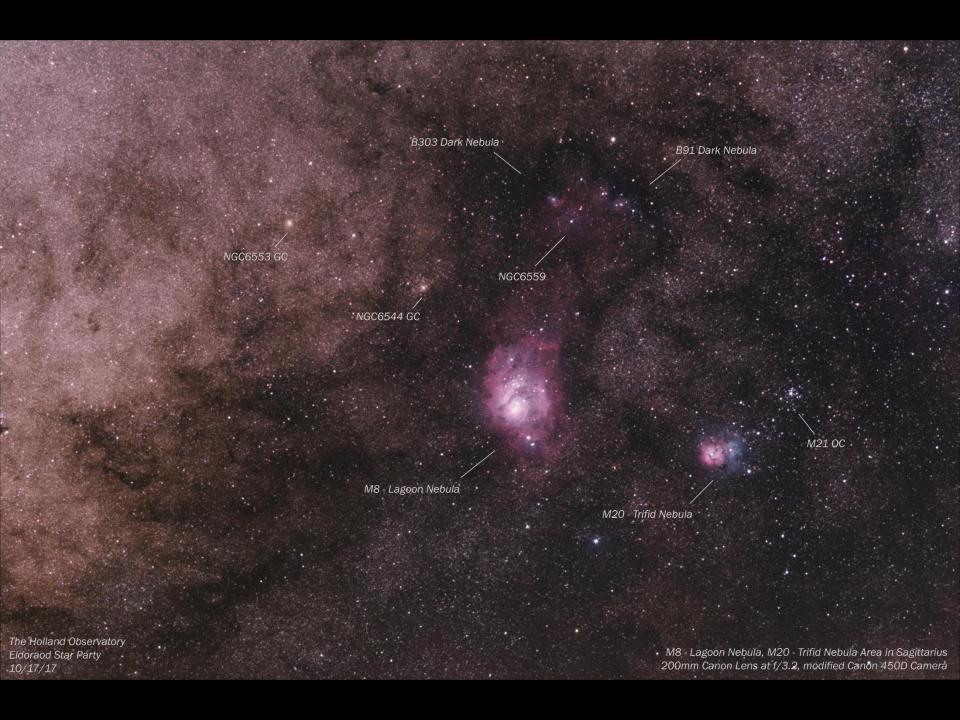
THIS MONTH: 9
THIS YEAR: 9

ALL TIME: 746412











M18 OC

M17 - Swan Neubla

IC4706

M16 - Eagle Nebula

NGC6604

#### Comparison f/3.2 vs. f/7.5





