

# Howard Astronomical League



April 18, 2013

# Stumper Question

**As of last night, how many  
asteroids are visible naked eye  
(mag < 7)?**

- A. None**
- B. About 16**
- C. About 128**
- D. About 1024**
- E. About 4096**

**Dr. Jason Kalirai, STScI**

**The Hubble Space Telescope's New  
Frontier Fields: A Prelude to the  
James Webb Space Telescope**



# Upcoming club activities

# Star Parties!

April 20<sup>th</sup> – Public Star Party

May 4<sup>th</sup> – Members only Star Party

May 18<sup>th</sup> – Public Star Party

# Public Outreach

April 20<sup>th</sup> – Solar Max, RNC Green  
Roof, 1-4 pm



**Member's  
astrophotos and  
sketches**

Herman Heyn



*Epidemic Proportions*

The Johns Hopkins University

Baltimore, MD

Vol. 10, Spring 2013

Mike Krauss



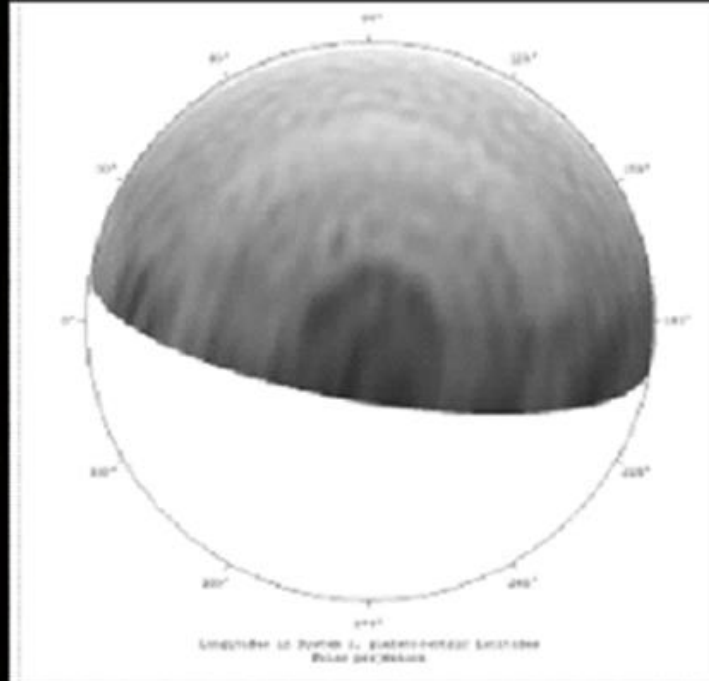


Saturn on March 30 2013

Peter Nerbun



Saturn image F/24  
(monochrome camera)



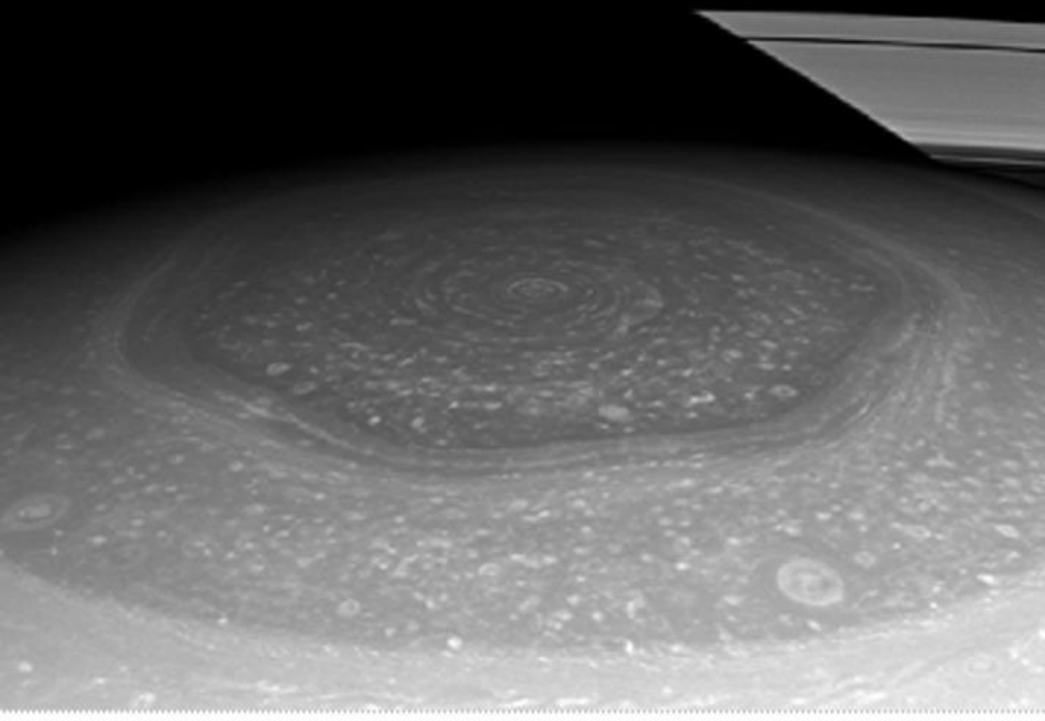
Polar Projection view  
from above Saturn's pole

**Saturn on March 30, 2013**

C11 Schmidt Cassegrain Telescope  
6,675mm F/L, Saturn at 31° Elevation

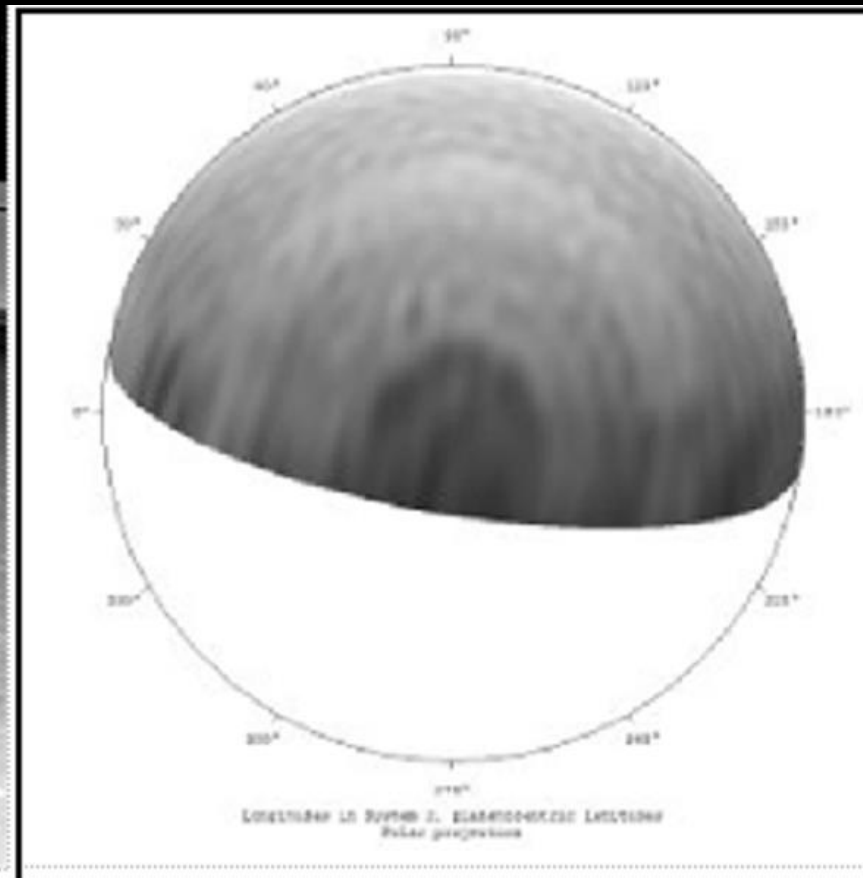
Peter Nerbun

Image Credit: NASA/JPL-Caltech/SSI



Cassini spacecraft image

Peter Nerbun



Polar Projection  
derived from my  
camera image



Leo Triplet (L-R: M66, M65, NGC3628)  
March 9, 2013  
Alpha Ridge Park, Howard County, MD

8-inch, F/5 Newtonian  
30 x 4 minutes  
ISO 400

Canon T1i  
Autoguided  
Wayne Baggett



M77 (NGC1068), NGC1055  
January 4, 2013  
Carrs Mill Park, Howard County, MD

8-inch, F/5 Newtonian  
30 x 4 minutes  
ISO 400

Canon T1i  
Autoguided  
Wayne Baggett



NGC 2403  
March 9, 2013  
Alpha Ridge Park

8-inch F/5 Newtonian  
30 x 4 minutes  
ISO 400

Canon T1i  
Autoguided  
Wayne Baggett

Joe Bohannon



Chris Todd Time-Lapse sequences from  
Messier Marathon and Delmarva Stargaze

**Stumper answer**

**As of last night, how many asteroids are  
visible naked eye (mag > 7)?**

**D. About 4096**

**In fact, 4,207 asteroids are currently  
magnitude 7 or less, with the  
brightest currently mag 0.9 (2010  
KC12), and there are 632 brighter  
than mag 4!**

# Thank You!

Next month's meeting is on Thursday,  
May 16, 2013  
7:30 PM

Guest speakers:

Dr. K.T. Ramesh from Johns Hopkins:  
Impact and fragmentation of asteroids

Joe Bohanon:  
Kitt Peak Advanced  
Observer Program