

Astrophotography Portfolio

By: Roi Weber

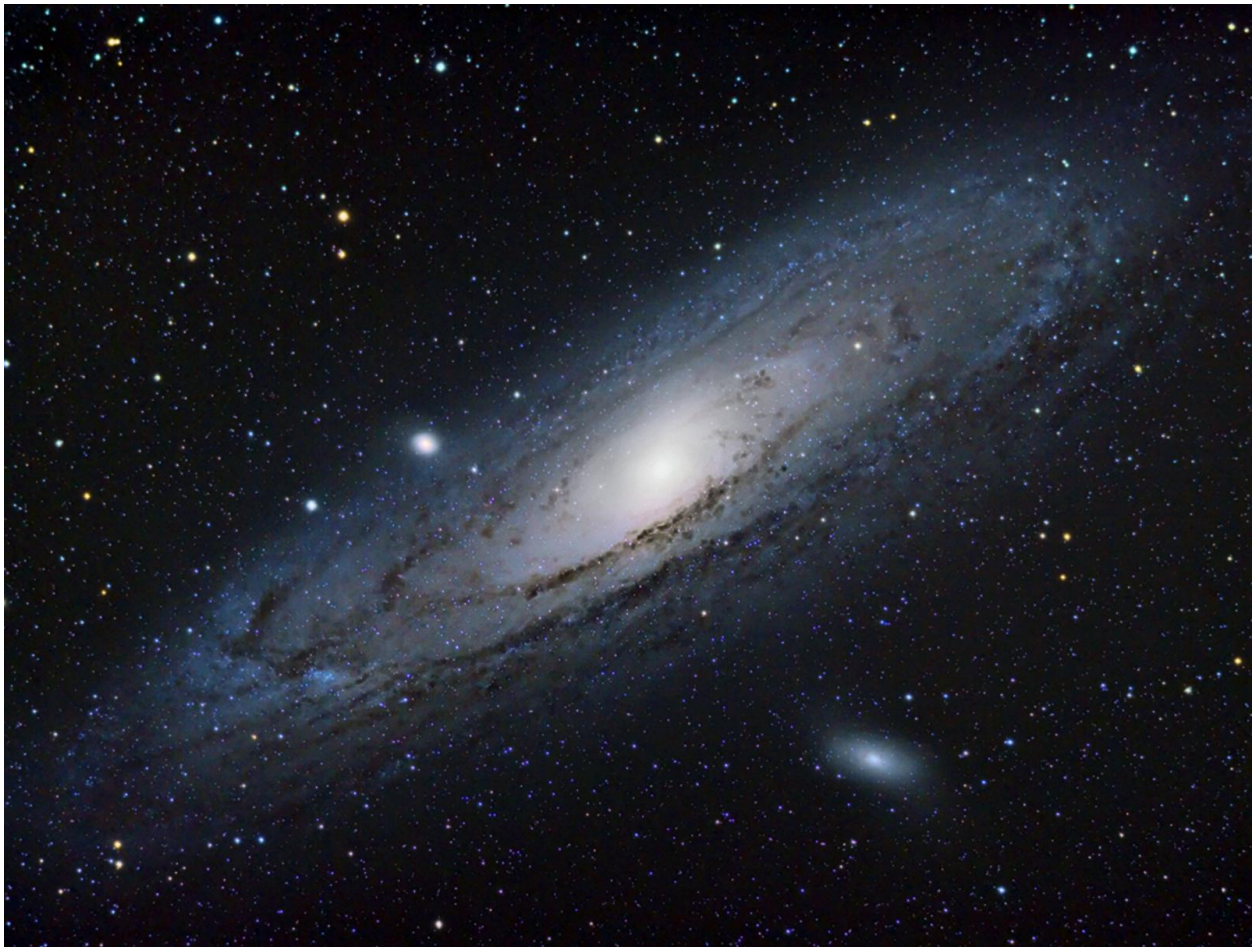


Image Source: <http://astrobackyard.com/astrophotography-images/>

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Digital Camera on Tripod



Editing done by following tutorials at: [The Astro Imaging Channel](http://theastroimagingchannel.com)

Original photo downloaded from Image Source: <http://astrobackyard.com/astrophotography-images/>

Indoors:

Phantom Student:



1. Classroom Telescope
2. 9/8/16, 1:40 pm & 1:33 pm, Sierra College
3. DSLR Nikon D3100
4. ISO 800
5. f/3.5, 18mm
6. 120 sec. & 15 sec. exposures
7. Maxlm DL 6 Stack, Gradient Extreminator, white balance/ highlight recovery, adjust exposure, adjust levels slider.

Best Telescope:



1. Classroom Telescope
2. 9/8/16, 1:40 pm, Sierra College
3. DSLR Nikon D3100
4. ISO 800
5. f/3.5, 18mm
6. 120 sec. exposure
7. Maxlm DL 6 Stack, Gradient Exterminator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Outdoor- daytime:

Tree and Sawmill: Left: Best Contrast, Right: Photoshopped Illusion



1. Tree and mill
2. 9/06/16, 1:52 pm & 1:56 pm & 2:00 pm, Sierra College
3. DSLR Nikon D3100
4. ISO 100, 800, 100
5. f/10, 18mm and 55mm
6. 1/125 sec. & 1/1000 sec. & 1/125 sec. exposures
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Polar Star Trails:

Photo 104: Star Trails



1. Polaris Star Trails
2. 9/08/16, 9:44 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/3.5, 35mm
6. 1183.7 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Ursa Minor Constellation: Little Dipper



8. Polaris Star: Ursa Minor Constellation (Little Dipper)
9. 9/08/16, 9:44 pm, Blue Canyon
10. DSLR Nikon D3100
11. ISO 800
12. f/3.5, 35mm
13. 1183.7 sec. exposure
14. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Other Nighttime Tripod Pictures:

Cassiopeia Constellation: Stack



1. Cassiopeia Constellation
2. 9/08/16, 9:33 pm & 9:37 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/3.5, 18mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Digital Camera on Piggyback



Image Source: <http://www.skyandtelescope.com/?s=horsehead+nebula&submit=>

Long Exposure Of Cygnus Region:

Cygnus Region & Summer Triangle:



1. Summer Triangle: Stars Altair, Deneb, Vega
Aquila Constellation, Cygnus Constellation, Lyra Constellation
2. 9/22/16, 9:22 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/3.5, 18mm
6. 192.4 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Several Short Exposures- Stacked Of Cygnus Region:

Cygnus Region & Summer Triangle: Stack



1. Summer Triangle: Stars Altair, Deneb, Vega
Aquila Constellation, Cygnus Constellation, Lyra Constellation
2. 9/22/16, 9:21 pm & 9:22 pm & 9:30 pm to 9:39 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 400, 800
5. f/3.5, 18mm
6. 3 sec. & 192.4 sec. & 30 sec. exposures
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Other Pictures Across The Sky:

Aquila Constellation:



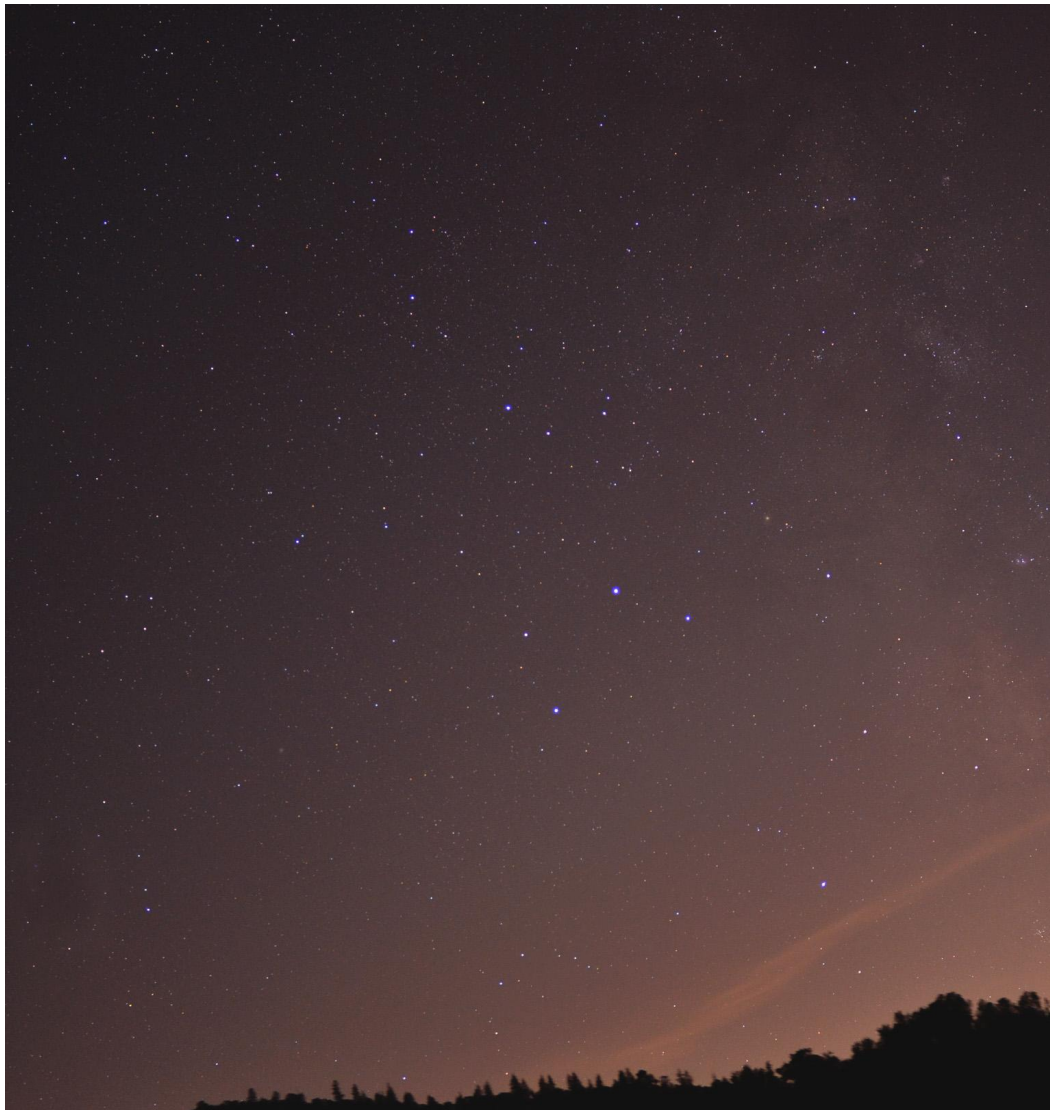
1. Aquila Constellation
2. 9/22/16, 10:07 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/1.8, 50mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Cygnus Constellation: Deneb Star



1. Deneb Star & Cygnus Constellation
2. 9/22/16, 10:04 pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/1.8, 50mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Sagittarius Constellation Stack:



1. Sagittarius Constellation Region
2. 9/22/16, 9:52pm & 9:53pm & 9:58pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/2.8 & f/1.8, 28mm & 50mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

Lyra Constellation:



1. Lyra Constellation Region
2. 9/22/16, 10:19pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/1.8, 50mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, Starspikes Pro for final image.

Andromeda Constellation: & Andromeda Galaxy



1. Andromeda Constellation & Andromeda Constellation
Apparent Magnitude 5.8
2. 9/22/16, 9:45pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/2.8, 28mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, Starspikes Pro for final image.

M31 Stack: Andromeda Galaxy



1. M31, Andromeda Galaxy in Andromeda Constellation
Apparent Magnitude 5.8
2. 9/22/16, 10:08pm- 10:17pm, Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. f/1.8, 50mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, Starspikes Pro for final image.

Digital Camera- Prime Focus



Image source: <http://www.skyandtelescope.com/?s=horsehead+nebula&submit=>

Sun

Sun 184 Stack: Focal Reducer



1. Sun
2. 9/29/16, 1:28pm & 1:41pm, Sierra College
3. Prime Focus DSLR Nikon D3100
4. ISO 100
5. $\{f/0=f/6.3\}=f/10$
6. 1/1000 sec. & 1/250 sec. & 1/80 sec. exposures
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Sun 181 Stack:



1. Sun
2. 9/29/16, 1:28pm, Sierra College
3. Prime Focus DSLR Nikon D3100
4. ISO 100
5. $f/0=f/6.3$, $f=1260$
6. 1/1000 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Night

Arcturus:



1. Arcturus Star in Boötes Constellation
Apparent Magnitude -0.04
2. 9/29/16, 9:21pm, Magnolia Range/ Blue Canyon
3. DSLR Prime Focus Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 4 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M11: Prime Focus



1. M11 Wild Duck Cluster in Scutum Constellation
Apparent Magnitude 6.3
2. 9/29/16, 9:30pm- 9:32pm, Magnolia Range/ Blue Canyon
3. DSLR Prime Focus Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260$
6. 25 sec. exposure
7. Maxlm DL 6 Stack, Gradient Extremator, Astronomy tools actions by ProDigital
Software- add color to stars action, white balance/ highlight recovery, adjust exposure,
RC- Astro Plugin - Star Shrink, move levels slider in, Starspikes Pro for final image.

M57: Prime Focus



1. M57 Ring Nebula in Lyra Constellation
Apparent Magnitude 8.8
2. 9/29/16, 10:10pm-10:14pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

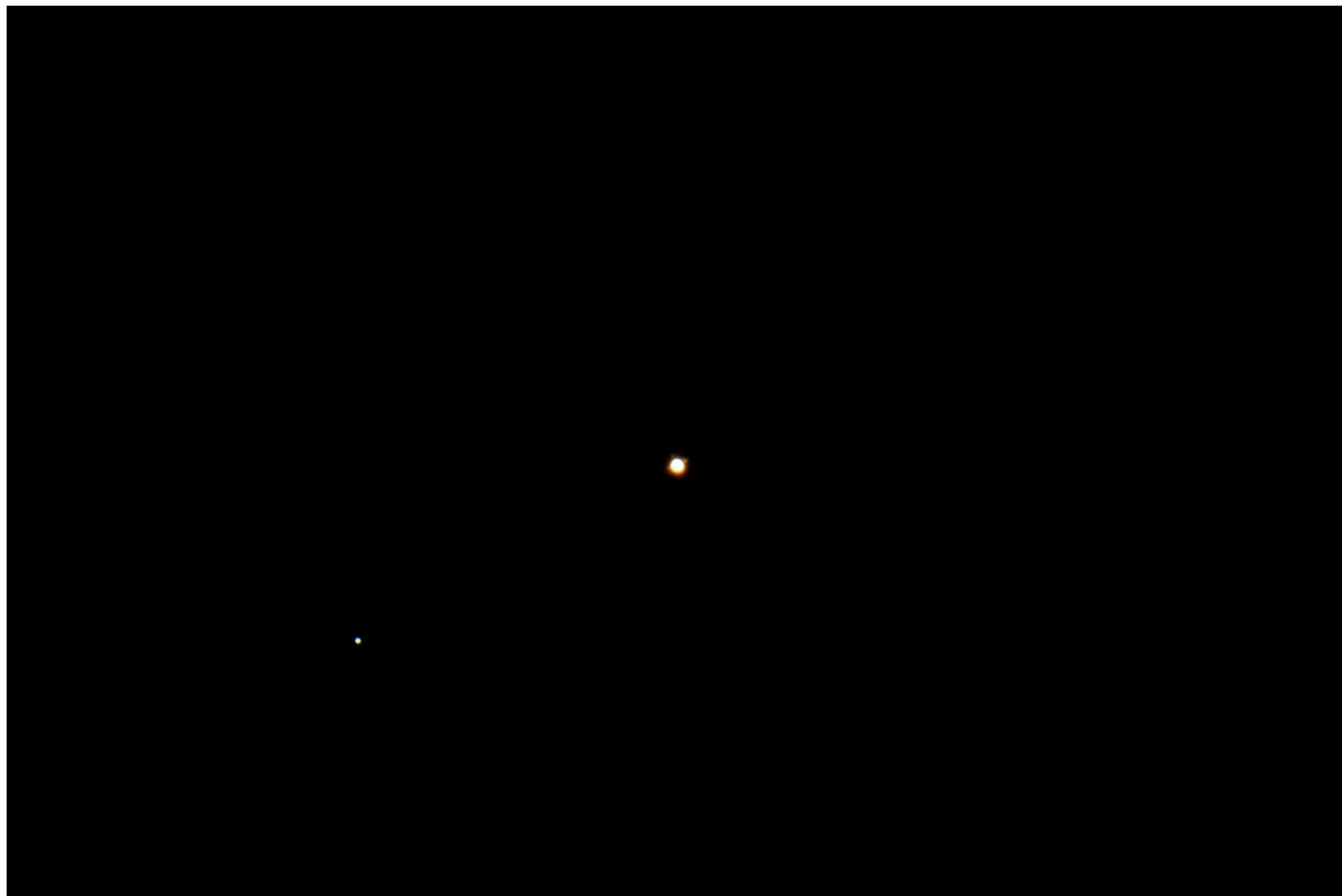
M27: Prime Focus



1. M27 Dumbbell Nebula in Vulpecula Constellation
Apparent Magnitude 7.5
2. 9/29/16, 9:44pm-10:08pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Night- Stacked

Arcturus Stack:



1. Arcturus Star in Boötes Constellation
Apparent Magnitude -0.04
2. 9/29/16, 9:21pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 4 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M57: Stack



1. M57 Ring Nebula in Lyra Constellation
Apparent Magnitude 8.8
2. 9/29/16, 9:34pm- 9:37pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M13: Stack



1. M13 Hercules Globular Cluster in Hercules Constellation
Apparent Magnitude 5.8
2. 9/29/16, 9:23pm- 9:28pm, Magnolia Range/ Blue Canyon
3. DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M11: Stack



1. M11 Wild Duck Cluster in Scutum Constellation
Apparent Magnitude 6.3
2. 9/29/16, 9:30pm- 9:32pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. & 25 sec. exposures
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M27: Stack



1. M27 Dumbbell Nebula in Vulpecula Constellation
Apparent Magnitude 7.5
2. 9/29/16, 9:44pm- 10:08pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M57: Stack



1. M57 Ring Nebula in Lyra Constellation
Apparent Magnitude 8.8
2. 9/29/16, 9:34pm- 9:37pm, Magnolia Range/ Blue Canyon
3. Prime Focus DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M52: Stack



1. M52 (No Asterism name?) Open Cluster in Cassiopeia Constellation
Apparent Magnitude 5.0
2. 9/29/16, 10:16pm- 10:19pm, Magnolia Range/ Blue Canyon
3. Prime Focus, DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M31: Stack



1. M31 Andromeda Galaxy in Andromeda Constellation
Apparent Magnitude 5.8
2. 9/29/16, 9:40pm- 10:03pm, Magnolia Range/ Blue Canyon
3. Prime Focus, DSLR Nikon D3100
4. ISO 800
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Digital Camera- Afocal



NGC1499 - The California Nebula

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Noel Carboni's Prodigital Software Astronomy Action tools used for all editing.
<http://www.prodigitalsoftware.com/index.html>

Outdoor:

Photo # 167: Afocal



1. Bike Rack
2. 9/27/16, 1:46pm, Sierra College
3. Afocal, DSLR Nikon D3100
4. ISO 200
5. f/1.8, 50mm
6. 1/100 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Photo # 153: Prime Focus



1. Campus Bike Rack
2. 9/27/16, 1:39pm, Sierra College
3. Prime Focus, DSLR Nikon D3100
4. ISO 100
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 1/800 sec. exposure
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

CCD



Photo taken in Hawaii with Samsung Galaxy S7

Daytime:

CCD Stack of Campus Sign:



1. Campus Sign
2. 10/10/16, 12:30pm, Sierra College
3. CCD Robotic, Nikon D3100
4. CCD Temp- 20.17°C
5. f/10, f=2800mm
6. 30 sec. exposure
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Extreminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

CCD Stack of Theater Roof:



1. Theater Roof
2. 10/10/16, 12:30pm, Sierra College
3. CCD Robotic
4. CCD Temp- 20.17°C
5. f/10, f=2800mm
6. 30 sec. exposure
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

CCD M13: Stack



1. M13 Hercules Cluster, Globular Cluster in the Hercules Constellation
Apparent Magnitude 5.8
2. 10/20/16, 10:06pm-10:09pm, Blue Canyon
3. CCD
4. CCD Temp. 1.48°C
5. f/0= f/6.3, f=1260mm
6. 15 sec. exposure
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

CCD M31: Stack



1. M31 Andromeda Galaxy in Andromeda Constellation
Apparent Magnitude 3.44
2. 10/20/16, 10:18pm, Blue Canyon
3. CCD
4. CCD Temp. 0.61°C
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 15 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

CCD Vega: Stack



1. Vega Star in Lyra Constellation
2. 10/20/16, 9:50pm, Magnolia Range/ Blue Canyon
3. CCD
4. CCD Temp 1.13°C
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 15 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Robotic Telescope



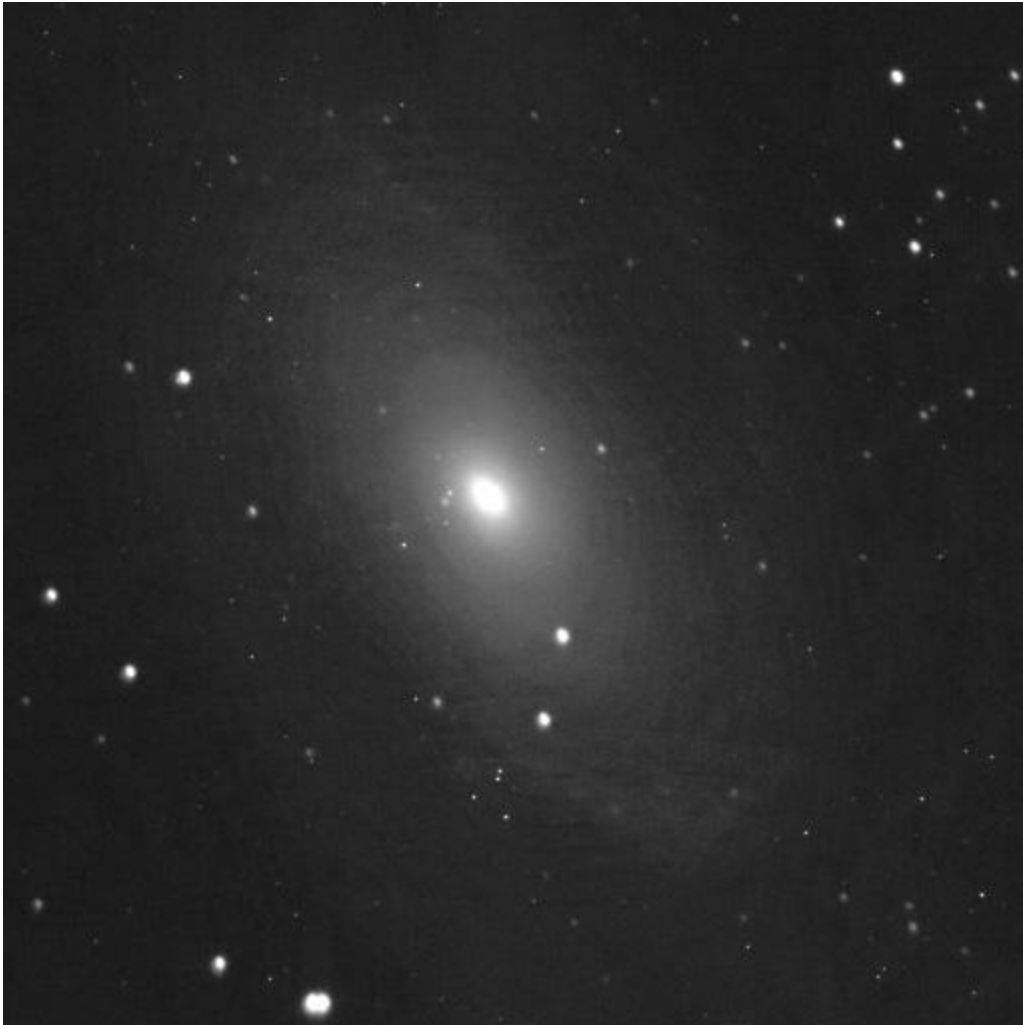
Taken with Samsung Galaxy S7, and Celestron 8

M56: Stack



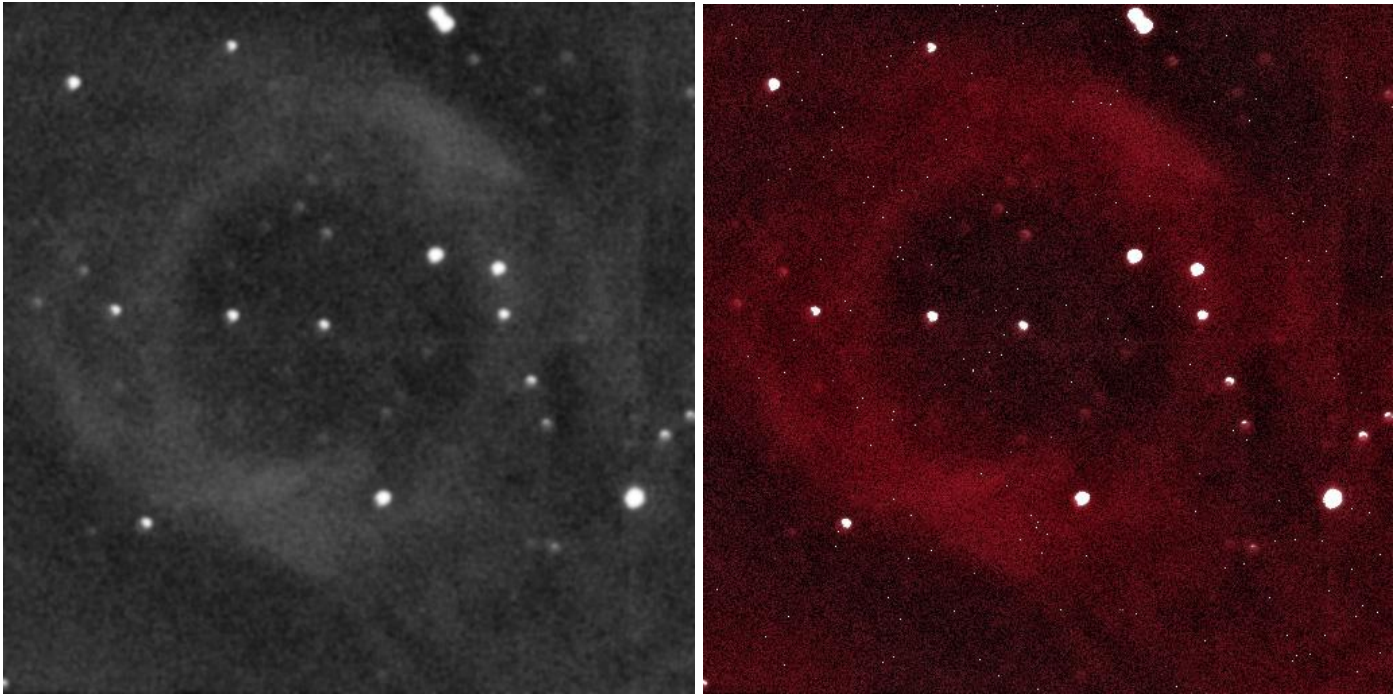
1. M56 Globular Star Cluster in Lyra Constellation
Apparent Magnitude 8.3
2. 10/10/16, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 19.75°C
5. f/10, f=2800mm
6. 20 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M81: Stack



1. M81 Bode's Galaxy, in Ursa Major Constellation
Visual Magnitude 6.9
2. 10/10/16, 12:30, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 20.02°C
5. f/10, f=2800mm
6. 20 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

NGC 7293:



1. NGC- 7293: Helix Nebula in Aquarius Constellation
Apparent Magnitude 7.6
2. 10/10/16, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 20.17°C
5. f/10, f=2800mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

NGC 6543:



1. NGC- 6543: Cat's Eye Nebula in Draco Constellation
(taken by Sierra College Astronomy Instructional Assistant Kris Syversen)
Apparent Magnitude 9.8
2. 10/10/16, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD
5. f/10, f=2800mm
6. 45 sec. & 20 sec. & 10 sec. exposures
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

Extra Pictures

M33: Triangulum Galaxy



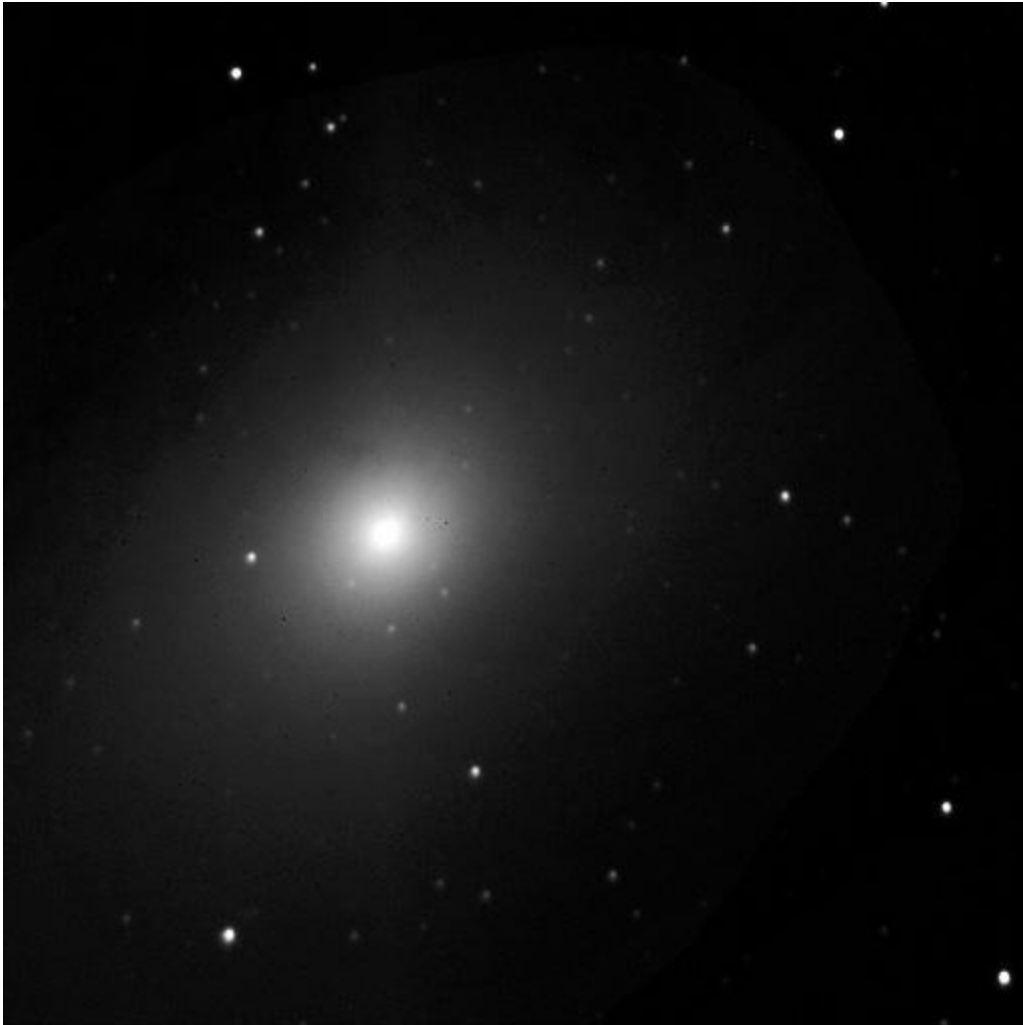
1. M33 Triangulum Galaxy in Triangulum Constellation
Magnitude 5.72
2. 10/20/15, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 20.15°C
5. f/10, f=2800mm
6. 45 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M27:



1. M27 Dumbbell Nebula in Vulpecula Constellation
Apparent Magnitude 7.5
2. 10/20/15, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 19.909°C
5. f/10, f=2800mm
6. 30 sec. exposure
7. MaxIm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.

M31:



1. M31 Andromeda Galaxy in Andromeda Constellation
Apparent Magnitude 3.44
2. 10/20/15, 12:30pm, Robotic Observatory
3. Robotic CCD
4. CCD Temp. 19.938°C
5. $f/0=f/6.3$, $f=1260\text{mm}$
6. 10 sec. exposure
7. Maxlm DL 6 Stack, RC- Astro Plugin Gradient Exterminator, Astronomy tools actions by ProDigital Software- add color to stars action, white balance/ highlight recovery, adjust exposure, Noel Carboni's ProDigital Software Astronomy Action Tools - Star Shrink, move levels slider in, ProDigital Software Starspikes-Pro for final image.