

**Charlie Elliott Chapter Astronomy  
Summer under the Stars  
Data and Targets for August 22, 2015**

**Solar System Objects**

The **Sun** sets at 8:16 PM; Astronomical Twilight begins at 9:37 PM

The **Moon** is at 51 % illumination; Moonset at 12:18 AM (8/23/15) at AZ 253

At sunset, watch for **Saturn** and the **Moon** *almost* in a single FOV at AZ 190

Look for **Neptune** after 10 PM in Aquarius in the Southeast

Look for **Uranus** around Midnight in Pisces in the East

**10 Lunar Objects, beginning around 10 PM**

**Rupes Recta** (and just next door) Craters **Thebit A** and **B**

**Dorsa Smirnov** (and if you are still thirsty) Crater **Beer**

Crater **Cassini's** inner craters, and the shadow inside Crater **Delambre**

Circular Formation called **Humboldt**, seen during this libration

**Montes Alpes** and **Vallis Alpes**, near the terminator

The rays coming out of **Messier A**

**4 Double Stars All in a Row in Capricorn, the "Sea Goat"**

**Alpha 1** and **2**, **Beta 1** and **2**, **Rho A** and **B**, **Omicron A** and **B**

**Galactic Messiers (and a glob, just for fun)**

M 31, M 33, M 51, M 63, M 64, M 81, M 82, M 94 (and M13, the wonderful globular cluster!)

**Twice the Fun!**

The "Double Cluster" (**NGC 868 & 884**), the "Double Double" (**Epsilon Lyra 1 & 2**),  
Double stars **Albireo**, **Cor Caroli**