Perseid Meteor Shower, 2025

Predicted Peak, August 12 @ 20 UT or 4 pm EDT per the RASC Handbook
Data below is for 40°N-75°W, EDT

Date, overnight:	**August 11-12**	**August 12-13**
Sunset	8:02 pm	8:00 pm
Twilight Ends	9:45 pm	9:43 pm
Moon Rise	9:23 pm	9:46 pm
Moon at Midnight	90.1%	82.2%
Twilight Begins	4:26 am	4:27 am
Sunrise	6:09 am	6:10 am
Moonset	9:45 am	10:58 am

On the morning of August 12, the two brightest planets, **Venus and Jupiter**, will pass very close to each other. The appulse (closest approach) will be at 2:41 am EDT (SkyTools) and the formal conjunction in geocentric right ascension will be at 4 am (USNO MICA). The spacing in each case will be 0.86°.

At 4:30 am, the nominal start of morning twilight, they will reach 13° altitude at 72° azimuth (ENE), about 0.9° apart, so besides being a splendid view with unaided eyes, they will easily fit simultaneously in a binocular field-of view, and even in a scope with a low-power, wide-field eyepiece, where their discs, and the Jovian satellites, will be readily apparent.

Venus will be 13.5″ apparent diameter, 79% illuminated, while Jupiter will be 33″ apparent equatorial diameter (fully illuminated). The Jovian Satellites will be positioned as follows:

East — Callisto, **Jupiter**, Io, Europa, Ganymede — *West*

The Great Red Spot won't appear at Jupiter's eastern limb until about 6:30 am, which is after sunrise.

Since Venus isn't terribly difficult to see in daylight with optical aid, it could be used as a guide to spot Jupiter in the daytime too.

Charts of the planetary pair are currently posted at the top of my web page:

https://www.wasociety.us/SJAstro/

Joe Stieber, August 7, 2025