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SKY CALENDAR JANUARY 2022

Use this scale to measure angular distances between objects on diagrams below.

Evening Planets: Jupiter, Saturn, Mercury, and Venus can all be spotted at dusk

in the southwest at the start of the month. Venus drops from view in the first week of the year. Mercury fades away mid-month. Saturn is lost in the Sun's glare in the last week of the month. Use a telescope or binoculars to observe the crescent shape of Venus. Venus is just a 1% crescent on January 3. Venus is at inferior conjunction January 8 when Venus passes 4.8° north of the Sun. Observing challenge: How close to the date of the conjunction can you spot Venus after sunset or before sunrise?

Morning Planets: Look for Mars low in the southeast. Mars slowly climbs higher as the month progresses. Venus emerges into the dawn sky soon after its inferior conjunction January 8. Mercury, at inferior conjunction January 23, emerges into the dawn sky at the end of the month, but doesn't become easy to spot in the dawn twilight until late in first week of February 2022.

The Quadrantid meteor shower peaks January 3, iust two days after a New Moon leaving the sky dark. But this short lived shower peaks during daylight hours for North America so it won't be visible. Observers in Asian and Eastern European longitudes will have a better view. The Quadrantid meteor shower is named after the now defunct constellation The Mural Quadrant. The Mural Quadrant was located in the area of the sky between the handle of the Big Dipper, the head of Boötes the Herdsman, and the tail of Draco the Dragon.

The Earth is at perihelion on January 4, 2022. At that time, Earth is 0.983 AU or 91.4 million miles from the Sun.

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An aid to enjoying the changing sky http://abramsplanetarium.org/ **MONDAY THURSDAY FRIDAY SUNDAY TUESDAY WEDNESDAY SATURDAY** Delta Agr Wed Jan 5, Thurs Sat Jan 1, Sunday Tues Jan 4. Mon Jan 3, 🚣 Jupiter → Jupiter Jupiter WATER JAR Jan 6, one hour one hour 40 min before sunrise Jan 2 40 minutes Moon · New Moon after after sunset 11/2 after sunset Beta Aqr **AQUARIUS** 1:33 p.m. EST Delta Cap Moon) sunset hours **SCORPIUS CAPRICORNUS** after **CAPRICORNUS CAPRICORNUS** Delta Cap Delta Cap Mars sunset Delta * Jupiter mag +1.5 Antares Saturn Fomalhaut Saturn mag +0.7 * Saturn Sunday Alpha Cap Old Jan 9 Alpha Cap Alpha Cap SE Delta Cap · Moon Beta Cap Moon First Mercury Beta Cap . Theta Beta Cap Quarter Fomalhaut Venus SW WSW SW Mercury Moon Sat Jan 8, Venus at inferior Mercury **CAPRICORNUS** Young 1:11 p.m. EST WSW conjunction, 4.8° UL of Moon rising Sun, 4.8° UR of SW Saţurn Tues Jan 11. Wed Jan 12, setting Sun. Sunday Jan. 16, Jupiter one hour before sunrise Jupiter one hour after sunset 40 minutes Jan 12-14, .. Pleiades Sat Jan 15, Beta Agr after sunset Me-Sa quasi-conjunction • Delta Sco one hour 40 minutes before sunrise \bigcirc after sunset **CAPRICORNUS** Now mag +1.4, Wed 12 Antares Delta Ćap Antares • Delta Cap . Mercury fades Thurs 13 Sa-Me 3.4° Mars from view Mars Saturn min dist Fomalhaut **CAPRICORNUS** quickly this **SCORPIUS SCORPIUS** Venus crescent 2% week WSW Mercury mag 0.0 ★ BetaTauri Aldebaran Saturn SW **WSW** SSE ESE ○ Fri 14 Venus **TAURUS** Denebola Zeta Tauri 🕌 Jupiter Jan 15-18, Jan 16-20, **Sat 22** Thurs 20 Jan 20-22 **Sat 15** Antares one hour Sat Jan 22, one hour ()one hour Fri Jan 21, \bigcirc before sunrise one hour before sunrise after sunset ()before sunrise 40 minutes **SCORPIUS** LEO after sunset * Mars LEO Regulus Fri 21 Sunday 16 Castor SICKLE Venus crescent 7% **Wed 19** Thurs 20 Saturn **WSW** Tues 18 SSE **GEMINI** • Regulus Mon Pollux Jan 17 Beehive Castor Pollux Thurs Jan 27. Fri Jan 28, Full Moon Moon Mon 17 • Eta Oph one hour one hour 6:48 p.m. EST Eta Oph **GEMINI** before sunrise before sunrise Sat Jan 22, Mon 17 O Antares **CANIS MINOR** 40 minutes Antares • Venus crescent 11% **Tues 18** after sunset WNW Sunday 16 Moon (Procyon E **SCORPIUS SCORPIUS** Venus Venus Mars Tues Jan 25 * Mars Saturn WSW Jan 23-26, Sunday Jan 23, mag +1.4 Last Quarter Moon one hour before sunrise 40 minutes 8:41 a.m. EST Jupiter SE SE after sunset SSE Antares • Sunday Venus Mon Sat Jan 29. Sunday 23 * Venus 15% Mercury at Beta Lib Mars Jan 30, Jan 31, one hour before sunrise inferior Mon 24 **CAPRICORNUS** . 0 40 min 40 min conjunction Mars Mars **LIBRA** Tues 25 before before **SCORPIUS** . Delta Cap . Old **VIRGO** Venus Moon Wed 26 sunrise sunrisė Fomalhaut Saturn sets at SE Mercury WSW * Mercury SSE mid-twilight Alpha Lib Spica

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