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What star planet is visible tonight

Jupiter arrives at solar conjunction on March 5, meaning that thereafter, the five brightest planets will be accessible only in the early morning sky. In actuality, only two — Venus and Mars — are easily available for most skywatchers to see, beginning about two hours before sunrise. Mercury will not be favorable for observation because it will remain very low to the east-southeast horizon during the early part of March, while mired deep in the dawn twilight glow. Saturn begins to emerge into view during the final week of March, joining Venus and Mars, with a crescent moon on March 28 making it a foursome. And Jupiter finally makes its presence felt at month's end. Related: Night sky for March 2022In our schedule, remember that when measuring the angular separation between two celestial objects, your clenched fist held at arm's length measures roughly 10 degrees. Here, we present a schedule below which provides some of the best planet viewing times as well as directing you as to where to look to see them.NOTE: Daylight Saving Time returns on March 13 — the second Sunday in March. Except in the states of Arizona and Hawaii, and the Canadian province of Saskatchewan, clocks are to be moved forward one hour at 2 a.m. The mnemonic is: "Spring forward, Fall back."Mercury(Image credit: Starry Night Software)Mercury is approaching the sun and is a difficult object for mid-northern observers. On the first day of the month, about a half hour before sunrise, look for the zero-magnitude planet very close to the east-southeast horizon, 22 degrees to Venus' lower left. Binoculars may be required to spot Mercury, especially from northern states; despite coming off of an unusually large solar elongation in mid-February, this smaller of the planets is very low because the ecliptic now makes its smallest annual angle with the morning horizon. On April 2 Mercury passes superior conjunction. Venus(Image credit: Starry Night Software)Venus arrives at its greatest western elongation from the sun (47 degrees) on March 20. In a telescope its crescent shape at the start of this month appears to fatten up to more-or-less half-full today and gibbous shaped by month's end. Venus is certainly easy enough to spot in the dawn twilight. It is, as always, the brightest planet, and rises in the east-southeast about two hours before sunup. The eerie, low glimmering of Venus is a harbinger of daybreak, which begins less than an hour after it first peeks up above the horizon.Earth(Image credit: NASA)Earth will go through a change of seasons on March 20. On that day, the sun arrives at the equinox at 11:33 a.m. EDT, crossing the celestial equator heading north for the year. This event inaugurates spring in the Northern Hemisphere and autumn in the Southern Hemisphere.Mars (Image credit: Starry Night Software)Mars is brightening ever so gradually (by just two-tenths of a magnitude this month) while hardly gaining any size in a telescope. It still appears as just a tiny, shimmering disk — hardly more than a messy "star" in most instruments, especially since it is at a low altitude above the horizon. But wait a few months. The Red Planet is slowly gathering speed for a rush into the evening sky in late summer and a good opposition come December. Mars will be in conjunction with the brilliant planet Venus on the morning of March 16; compared to Venus, the red planet appears only 1/175 as bright. You'll find it sitting about 4 degrees to Venus's lower right.Jupiter(Image credit: Starry Night Software)Jupiter passes through conjunction with the sun on March 5 and enters the morning sky. It finally emerges into view, extremely low in the bright dawn on the final day of March; however, you must definitely will need to use binoculars to scan for it, just above the eastern horizon about 25 minutes before sunrise.Saturn(Image credit: Starry Night Software)Saturn still hides in the sunrise glow during the first half of March, but begins to emerge low in the east-southeastern dawn glow during the last week of the month. The morning of March 24 will provide you with an excellent opportunity to identify it courtesy of two other morning planets, Venus and Mars. Today, all three will form a wide isosceles triangle low in the east-southeast about 90 minutes before sunrise. Orange Mars and slightly brighter yellow-white Saturn form the base, while dazzling Venus marks the vertex. On the morning of March 28, a waning crescent moon will join Venus, Saturn and Mars. About 45 minutes before sunrise, look low toward the east-southeast horizon to see the slender lunar sliver positioned about 7 degrees below and to the right of Venus and 5.5 degrees below and to the left of Mars. Saturn will sit about 2 degrees below Venus; they'll be slightly closer tomorrow morning when they're in conjunction.Joe Rao serves as an instructor and guest lecturer at New York's Hayden Planetarium. He writes about astronomy for National History magazine, the Farmers' Almanac and other publications. Follow us on Twitter @Spacedotcom and on Facebook. Some of the best telescope views of the night sky come from the planets, particularly Mercury, Venus, Mars, Jupiter, and Saturn, the five brightest planets visible to the naked eye. But, you wonder, which planets are out tonight and where should I look to see them? Well, showing you which planets are visible tonight and where to look for them is what this guide is all about. Use the 'Quick Navigation' box to quickly get details on the planet of your choice. Let's jump in and discover which planets we can see tonight. Introducing... The Planets There are eight official planets in our solar system (if you thought there were nine, read this). We live on one of them, which leaves seven for us to look at in the night sky. From the sun outwards, they are Mercury, Venus, [Earth], Mars, Jupiter, Saturn, Uranus, and Neptune. The Five Visible Planets The five planets closest to us are bright enough to be easily seen in the night sky with the naked eye. For that reason, these are collectively known as the five visible planets. From closest to the Sun, outwards, the five visible planets are: Mercury,Venus[Earth]MarsJupiterSaturn All of the planets look wonderful through a telescope, with many different and dynamic features to try and observe. If you've never seen the awesome sight of Jupiter's cloud belts, Saturn's rings, and Martian ice caps, then it's time you checked out our reviews of the best telescopes to see the planets (opens in a new tab). The Outer Planets The two outermost planets of the solar system are much trickier to see than the five discussed above. The closer of these ice giants, Uranus, is technically visible to the naked eye but, unless you know where to look, it is not bright enough to be distinguishable from the background of brighter stars. Neptune, the most distant planet in the solar system, can only be seen with binoculars or a telescope. We show you how to see if Neptune and Uranus are visible tonight towards the end of this guide. Seeing The Five Visible Planets in 2022 All 5 visible planets have great seeing at some point during this year, which you can see at a glance by scrolling down to the table below. Before reading it though, it helps to understand why there are times when the planets are well placed for observing and others when they are not visible. Discover our reviews of this year's best telescopes Imagine the five planets split across two groups, the inferior and superior planets: Inferior Planets: Mercury and Venus lie inside Earth's orbit, closer to the Sun than we areSuperior Planets: Mars, Jupiter, and Saturn lie outside Earth's orbit, further from the Sun When to See the Inferior Planets Moon, Venus & Mercury (source) Mercury and Venus orbit the Sun inside Earth's orbit, which means a number of significant things: They orbit faster than Earth, so they change position in the sky quickly!They present crescent phases to us like the Moon because we can see parts of the planets' surfaces that are not facing the SunThe best time to see them is at 'greatest elongation', which is when they appear to be at their farthest from the sun as we see them. The worst time to see the inferior planets is when they are in conjunction. This is the name given to the moment when Earth, the Sun, and the planet are all in a straight line. There are two types of planetary conjunction: Superior conjunctions happen when the planet is on the opposite side of the Sun from us, i.e. the Sun is in between us and the planet, andinferior conjunctions are when the planet is in the middle, i.e. it sits between us and the Sun see both types of conjunction highlighted with the red rings on the diagram below. The inferior planets are invisible to us at and near conjunction because they are lost in the glare of the Sun. The rare exception to this is when an inferior conjunction happens and the planet is on the same plane as us and the sun. When that happens we see a spectacular transit of Venus or Mercury across the face of the Sun. Sadly, they only quite rare. To see Venus pass in front of the sun you need to be a young person, and ideally not even born yet because there are 95 years to go before the next one. Fortunately, we all stand a better chance of seeing little Mercury cross the Sun's disc but we still need to wait until 2032. The best time to see Venus and Mercury is when they are at greatest elongation, shown inside the pink rings on the diagram below. At greatest elongation, these planets are as far from the Sun as they get in our sky. That still normally means challenging viewing for Mercury. The tiny planet orbits so close to the sun that it is rarely visible for more than an hour before sunrise or after sunset, so we only ever find the planet in the glow of dusk or dawn. Venus orbits further out, so we do get to see it against the inky blackness of night, but it too sets or rises within a few hours of the Sun. This brings us to the final point you need to be aware of as a planet hunter: at greatest eastern elongation, the planet is visible after sunset. At its greatest western elongation, we'll see the planet in the morning, before sunrise. When is the Best Time to See A Planet? The diagram below shows an idealized position of inferior planets (inner ring) and superior planets (outer ring) hitting conjunction, greatest elongation, and opposition with Earth (blue circle, middle ring). A guide to conjunctions, oppositions, and elongations. (Source) You can see that at both superior and inferior conjunctions the planet is in the same line of sight as the Sun, so we can't see it in the sky; the Sun's glare is too bright. The best time to see superior planets is at opposition because they are directly opposite the sun but behind Earth (green ring in the diagram), which makes them visible in the sky all night long. The best time to see inferior planets is at their Greatest Elongation. When to See The Superior Planets Mars, Jupiter, Saturn, Uranus, and Neptune all orbit further away from the Sun than our planet does. For this reason, these planets are called superior and they have a different character in the sky from the inferior Mercury and Venus. They take longer to complete one orbit of the Sun than Earth, which makes their orbit, so it does not slowly across the night sky, i.e. they only move a short distance compared to the background constellations every night. That means we can only see them in the evening and morning. Mercury's greatest elongations occur on January 07, best crescent formThe best time to see the superior planets is at opposition just like Mercury and Venus, the superior planets also form [superior] conjunctions with Earth and the Sun. And, unsurprisingly, they too are invisible at this time because they are lost in the Sun's glare. The best time to see the outer planets of the solar system is at opposition. If you refer to the green circle in the diagram above, it's easy to see why. Unlike the inferior planets, the outer planets never pass between Earth and the Sun. At opposition, we sit directly between them and the Sun. Think of it as having the Sun 'behind' us while the planet is 'facing' us. This is an awesome time for planet-watching because a planet at opposition is visible all night long and highest in the sky (transiting) around midnight! We get hours to see the planet high above the horizon during the hours of darkness. This often coincides with the planet's closest approach to Earth too, offering even more spectacular views. Okay, that's more than enough understanding of why we can or can't see the planets tonight. Let's turn now to the most important part of this article: which planets can we see tonight? Which Planets are Visible Tonight? To find out "what planets can I see tonight?" use the table below which is the perfect quick solution for you. It shows which of the five visible planets can be seen tonight for each month in 2022. It includes opposition dates for Mars, Jupiter, and Saturn, and greatest elongation dates for Mercury and Venus. For each of the five visible planets, we show you whether it is visible in the evening (E) or morning (M). During opposition months, the planet will be visible all night. Where there is "-" in the table, the planet is not visible during this month. 2022MercuryMercuryMarsJupiterSaturnJameG 07th—ME—FebhmG 16thMm—Mar—mGE 20thM—AprpGE 29thMMMMMay—MMWJunnepE 16thMMMMJul—MMMMAugGE 27thMMMMOpp 14thSep—MMOpp 27thOctmGGE 08th—MEENov—MEEDecGE 21stOpp 07thEE mGE = Greatest Elongation visible morning, eGE = Greatest Elongation visible evening, Opp = Opposition, M = Morning, E = Evening, — = Not Visible. For Mercury, only Greatest Elongation dates are shown but the planet will be visible for 1-2 weeks on either side of that date. Planets Visible Today The Details Now you know which planets are visible in the sky tonight. Let's look at them individually for more detail on where to see them throughout 2022. Is Mercury Visible Tonight? For the smallest planet in the solar system, you may be wondering can we see Mercury from Earth, and the answer is a resounding yes! You can see Mercury without a telescope if you know when and where to look. However, of the five brightest planets, Mercury is definitely the trickiest one to glimpse. For the best chance of success, find an elevated position, e.g. a hill that overlooks an open horizon. Mercury skirts so close to the ground – even at its best – that trees and buildings can prevent you from seeing it. Planet Mercury (source) Where Can You Find Mercury? The challenge to seeing Mercury comes from the short distance between it and the Sun, and the rapid orbit the planet has. Mercury orbits the Sun in only 88 days, so it completes well over four laps of the sun for every one of ours. Mercury is so close to the sun that we can never see it in true darkness. Its proximity to the sun also means that the little planet is never very high in the sky – it rarely rises more than 10° above the horizon after sunset or before sunrise. Ten degrees is about the width of your fist at the end of your outstretched arm, i.e. it's not very high. Our time to see it is also limited. Even at its best seeing, Mercury is usually only visible for up to an hour before sunrise in the morning or after sunset in the evening. And, because of its rapid orbit, we don't get to see Mercury for many days in a row either before it returns to the Sun's glare. Because Mercury is near the Sun, it's visible in the west straight after sunset and in the east immediately before sunrise. Mercury Seeing Challenges: Mercury. Yes, your first challenge is to see the planet itself. Whilst it's bright, it's always in the glare of the dawn or dusk low towards the horizon. Seeing the planet Mercury is a great first achievement!Mercury's phases. What is worth looking out for is the crescent of Mercury. Sky & Telescope Magazine always carry an almanac of how much of the surface is illuminated. (Read our Sky & Telescope review here) When Can We See Mercury from Earth? Mercury is visible in the evening and morning, but it's always in the glare of the dawn or dusk low towards the horizon. Seeing the planet Mercury is a great first achievement!Mercury's phases. What is worth looking out for is the crescent of Mercury. Sky & Telescope Magazine always carry an almanac of how much of the surface is illuminated. (Read our Sky & Telescope review here) When Can We See Mercury from Earth? Mercury is visible in the evening and morning, but it's always in the glare of the dawn or dusk low towards the horizon. 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