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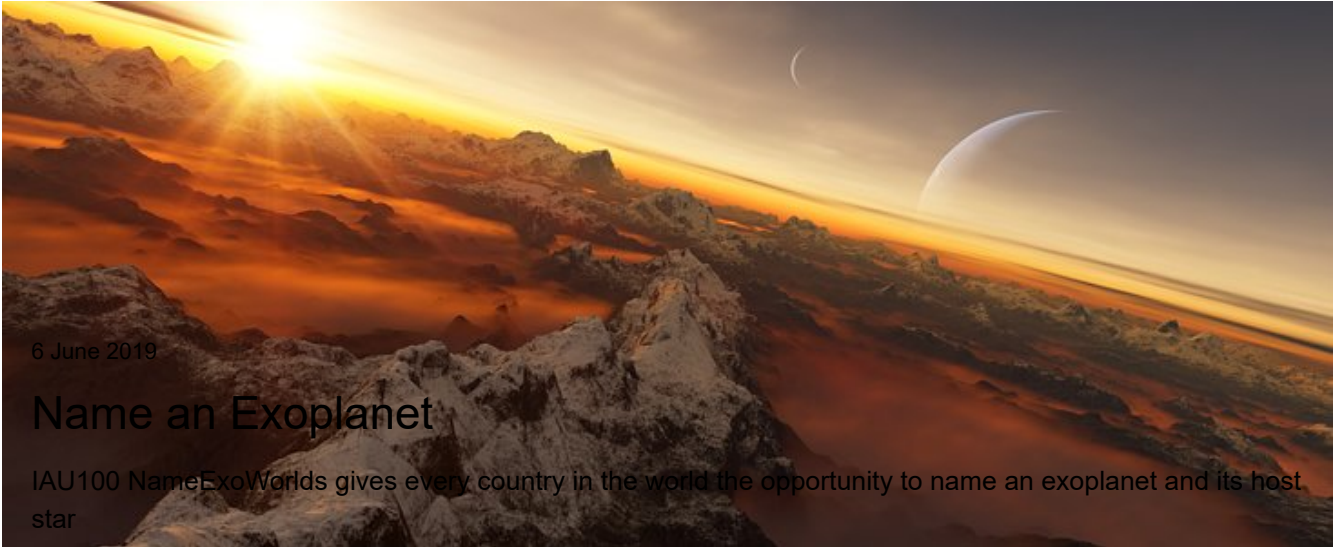
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6 June 2019

Name an Exoplanet

IAU100 NameExoWorlds gives every country in the world the opportunity to name an exoplanet and its host star

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Within the framework of its 100th anniversary commemorations, the International Astronomical Union (IAU) is organising the IAU100 NameExoWorlds global campaign that allows any country in the world to give a popular name to a selected exoplanet and its host star. Nearly 100 countries have already signed up to organise national campaigns that will provide the public with an opportunity to vote. The aim of this initiative is to create awareness of our place in the Universe and to reflect on how the Earth would potentially be perceived by a civilisation on another planet.

Follow the IAU on social media

(<https://www.facebook.com/InternationalAstronomicalU>

(https://twitter.com/IAU_org)

([https://www.youtube.com/channel/UCc3l9q-](https://www.youtube.com/channel/UCc3l9q-N0NA05vIYeNMmtTw)

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(<https://www.linkedin.com/company/the-international-astronomical-union/?viewAsMember=true>)

In recent years, astronomers have discovered thousands of planets and planetary systems orbiting around nearby stars. Some are small and rocky like the Earth, whilst others are gas giants like Jupiter. It is now believed that most stars in the Universe could have planets orbiting them and that some of them may have physical characteristics that resemble those of the Earth. The sheer number of stars in the Universe, each potentially with orbiting planets, along with the ubiquity of pre-biotic compounds, suggests that extraterrestrial life may be likely.

The IAU is the authority responsible for assigning official designations and names to celestial bodies and now, while celebrating its first 100 years of fostering international collaboration (IAU100(<https://www.iau-100.org/>)), it wishes to contribute to the fraternity of all people with a significant token of global identity. Following the first NameExoWorlds campaign, which named 31 exoplanets(<https://www.iau.org/news/pressreleases/detail/iau1514/>) in 19 planetary systems in 2015, the IAU will now, within the framework of the IAU100 NameExoWorlds project(<http://nameexoworlds.iau.org/>), offer every country the chance to name one planetary system, comprising an exoplanet and its host star. Each nation's designated star is visible from that country, and sufficiently bright to be observed through small telescopes. This is only the second time in history that a campaign will lead to the naming of stars and exoplanets.

"This exciting event invites everyone worldwide to think about their collective place in the Universe, while stimulating creativity and global citizenship," shared Debra Elmegreen, IAU President Elect. *"The NameExoworlds initiative reminds us that we are all together under one sky."*

After carefully selecting a large sample of well-studied, confirmed exoplanets [1] and their host stars, the IAU100 NameExoWorlds Steering Committee assigned a star–planet system to each country, taking account of the association with the country and the visibility of the host star from most of the country.

In each participating country, a national committee has been specially created by the National Outreach Coordinators (IAU NOCs(<https://www.iau.org/public/noc/>)) to carry out the campaign at the national level. The national committee, following the methodology and guidelines set up by the IAU100 Name ExoWorlds Steering Committee, is the body responsible for providing the conditions for public participation, disseminating the project in the country and establishing a voting system.

The national campaigns will be carried out from June to November 2019 and, after final validation by the IAU100 NameExoWorlds Steering Committee, the global results will be announced in December 2019. The winning names will be used freely in parallel with the existing scientific nomenclature, with due credit to the persons that proposed them.

If your country is not yet organising a national campaign, and you are part of a science organisation or Non-Governmental Organisation interested in carrying out a nation-wide contest, there is still time until 30 July 2019 to express interest to organise a national campaign. Send us your brief proposal through this form (<http://www.nameexoworlds.iau.org/nc-proposals-form>) and the NameExoWorlds Steering Committee will review your proposal and will get back to you with its decision. Questions about national campaigns should be specifically addressed to the National Committees.

Notes

[1] The NameExoWorlds campaign has selected planetary systems for naming composed of planets orbiting stars that could be observed with a small telescope from the latitude of the capital of each country. The system often has a link with the assigned country, such as the facilities used to discover the planet, or the scientists involved in the discovery of the planet. The existence of the planet is generally more secure for systems which were discovered earlier, as they have had more years of research to survive further scrutiny. For this reason, the sample is focused on exoplanets revealed during the first two decades of exoplanet exploration, with most discovery dates before 2012. The visual brightnesses range between 6th and 12th magnitude. The

Images



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Exoplanet rendering

planets were all discovered via either the Doppler spectroscopy (radial velocity) method or transit method, and all were discovered using ground-based telescopes. The planets are all likely to be gas giants similar to Jupiter and Saturn, with estimated masses between 10% and 500% that of Jupiter. All these systems are composed of single stars with only one known planet orbiting around them. It is possible that the stars have additional planetary and stellar companions which may be discovered in the future. This is so that each country has an equal opportunity of naming similar celestial bodies.

More information

The IAU is the international astronomical organisation that brings together more than 13 500 professional astronomers from more than 100 countries worldwide. Its mission is to promote and safeguard astronomy in all its aspects, including research, communication, education and development, through international cooperation. The IAU also serves as the internationally recognised authority for assigning designations to celestial bodies and the surface features on them. Founded in 1919, the IAU is the world's largest professional body for astronomers.

Links

- Name ExoWorlds website
- IAU100 website(<https://www.iau-100.org/>)
- Get involved(<http://nameexoworlds.iau.org/get-involved>)

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