

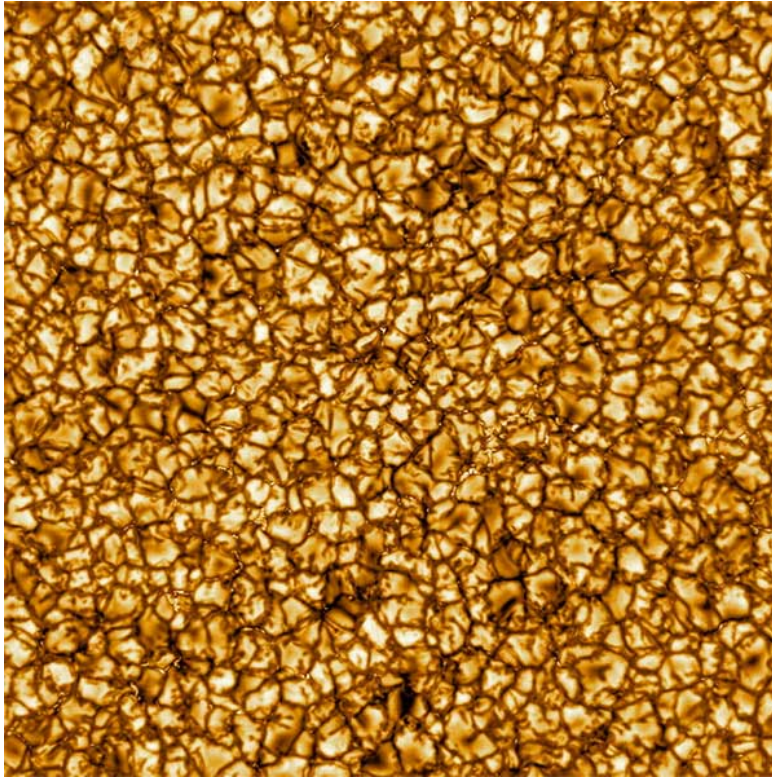
# **This is the most detailed photograph of the sun's surface that humans have ever taken**

The sun is the determining factor in life on earth.

The sun is the determining factor on life on earth, but there are still many things about this 10 billion-year-old 'giant fireball' that humans have yet to discover. For example, we all know that the surface of the sun has a temperature of about 6,000 degrees Celsius, but the radiation belts around it can reach temperatures of millions of degrees Celsius, and this is still a mystery. with astronomers.

However, advances in science and technology are now helping humanity to better understand this 'gigantic nuclear reactor'. Recently, Daniel K Inouye (Daniel K. Inouye Solar Telescope) - the largest and most modern solar telescope of the National Science Foundation (NSF) in Maui, Hawaii has been captured. an 'unprecedented' image with incredible detail about the surface of the sun.

Specifically, after 10 years of planning and 7 years of construction, Daniel K. Inouye finally produced the first result, and this is really a masterpiece. The image shows a close-up view of the sun's surface, with plasma structures heated thousands of degrees of heat that create irregular but beautiful 'enchanted' patterns. Each of these plasma structures resembles small cells, but in fact is about the same size as the state of Texas - the largest of 48 adjacent states of the United States (about 695,662 km<sup>2</sup>). This picture will greatly improve our understanding of the impact of the sun in space and especially help better predict the laws of solar storms as well as its impact on the earth. .



The most detailed photograph of the sun surface ever taken by humans

Besides providing clearer images, the Daniel K. Inouye Solar Telescope will provide the ability to remotely detect the outer layers of the sun and the magnetic processes occurring in them. The information obtained will be of great value to astronomy in general and solar research in particular.

If operating according to design, within the first five years of operation, the solar system Daniel K. Inouye is expected to be able to gather more information about the sun than all the data. The data about the sun have been made since the first solar telescope was born in 1612.

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