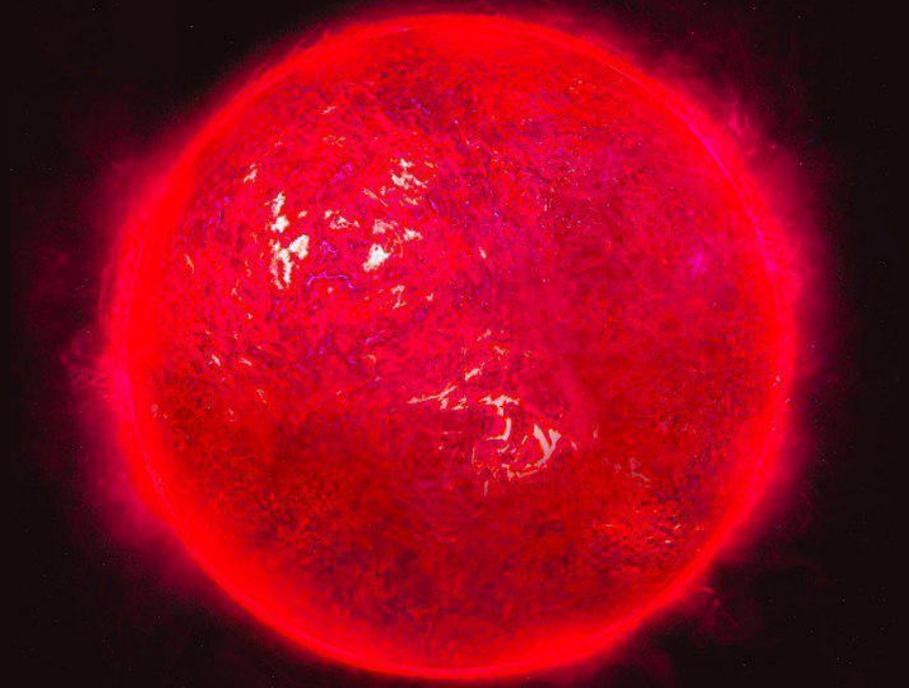


# Планетная система в зоне обитаемости

Бронников Евгений Русланович

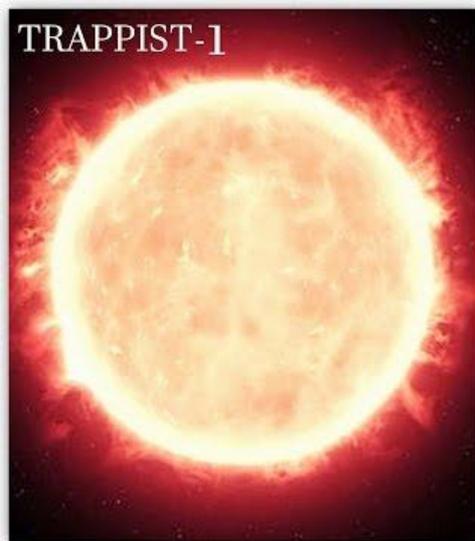




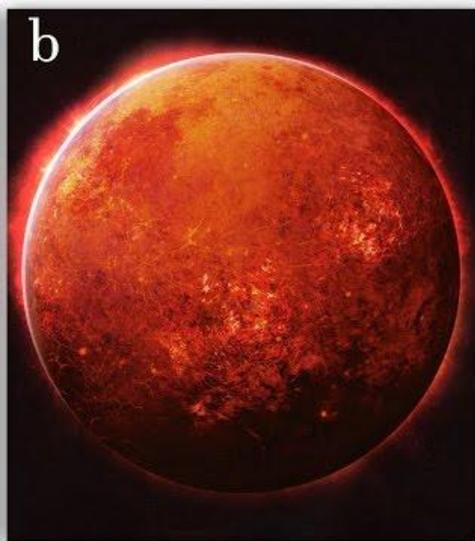
TRAPPIST - 1



TRAPPIST-1



b



c



d



f



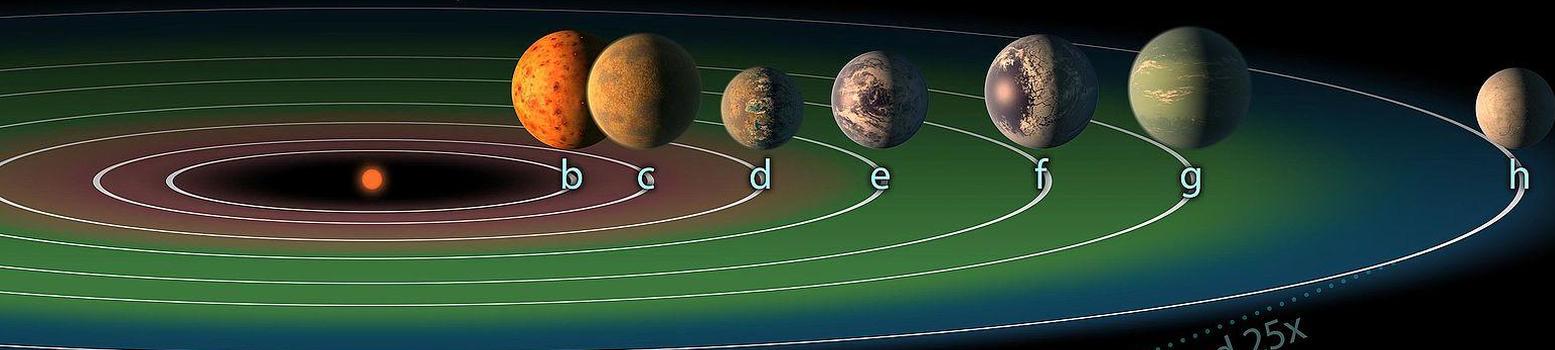
g



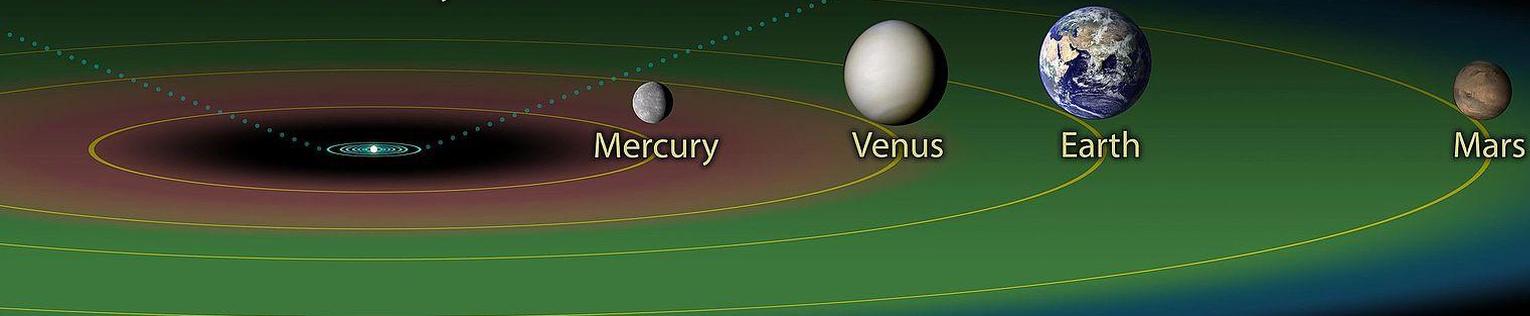
h



## TRAPPIST-1 System



## Inner Solar System

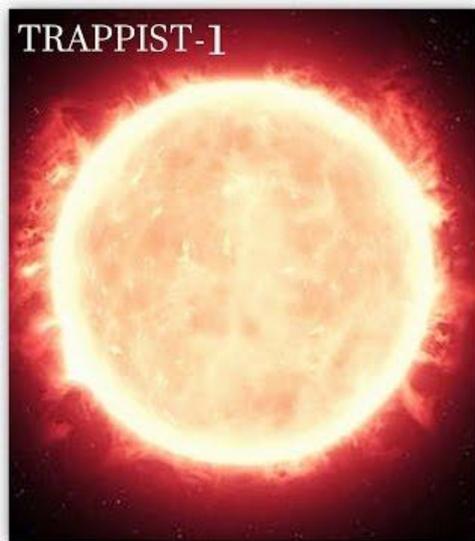


Enlarged 25x

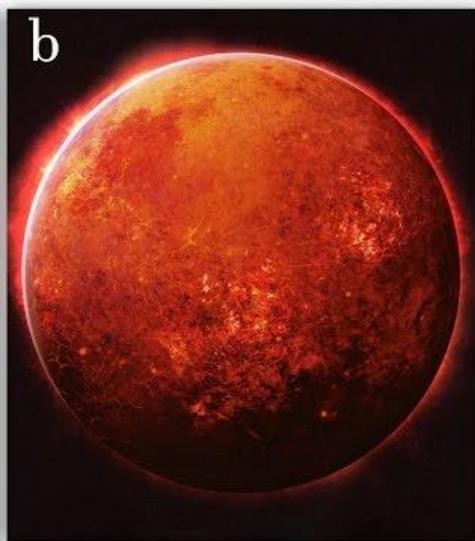
Если мы поставим TRAPPIST-1 на место нашего Солнца, то все семь планет окажутся внутри орбиты Меркурия.

Illustration

TRAPPIST-1



b



c



d



f



g



h



# Данные планет системы TRAPPIST - 1

Illustrations

## TRAPPIST-1 System



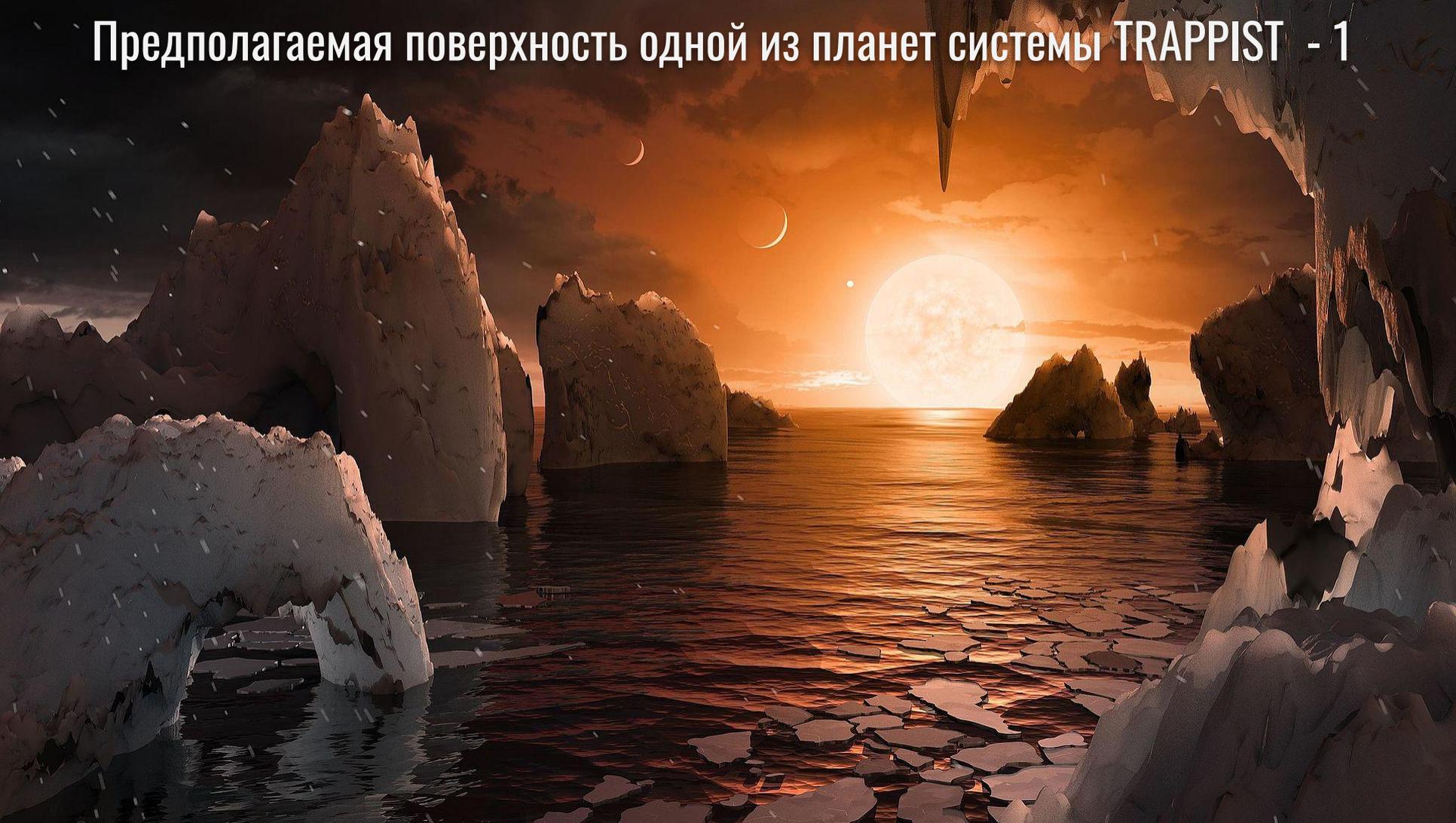
	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>
<b>Orbital Period</b> <i>days</i>	1.51 <i>days</i>	2.42 <i>days</i>	4.05 <i>days</i>	6.10 <i>days</i>	9.21 <i>days</i>	12.35 <i>days</i>	~20 <i>days</i>
<b>Distance to Star</b> <i>Astronomical Units (AU)</i>	0.011 <i>AU</i>	0.015 <i>AU</i>	0.021 <i>AU</i>	0.028 <i>AU</i>	0.037 <i>AU</i>	0.045 <i>AU</i>	~0.06 <i>AU</i>
<b>Planet Radius</b> <i>relative to Earth</i>	1.09 $R_{earth}$	1.06 $R_{earth}$	0.77 $R_{earth}$	0.92 $R_{earth}$	1.04 $R_{earth}$	1.13 $R_{earth}$	0.76 $R_{earth}$
<b>Planet Mass</b> <i>relative to Earth</i>	0.85 $M_{earth}$	1.38 $M_{earth}$	0.41 $M_{earth}$	0.62 $M_{earth}$	0.68 $M_{earth}$	1.34 $M_{earth}$	—

## Solar System Rocky Planets



	<b>Mercury</b>	<b>Venus</b>	<b>Earth</b>	<b>Mars</b>
<b>Orbital Period</b> <i>days</i>	87.97 <i>days</i>	224.70 <i>days</i>	365.26 <i>days</i>	686.98 <i>days</i>
<b>Distance to Star</b> <i>Astronomical Units (AU)</i>	0.387 <i>AU</i>	0.723 <i>AU</i>	1.000 <i>AU</i>	1.524 <i>AU</i>
<b>Planet Radius</b> <i>relative to Earth</i>	0.38 $R_{earth}$	0.95 $R_{earth}$	1.00 $R_{earth}$	0.53 $R_{earth}$
<b>Planet Mass</b> <i>relative to Earth</i>	0.06 $M_{earth}$	0.82 $M_{earth}$	1.00 $M_{earth}$	0.11 $M_{earth}$

# Предполагаемая поверхность одной из планет системы TRAPPIST - 1



A 3D rendered landscape of a rocky, reddish planet. The terrain is rugged and uneven, with various shades of red, orange, and brown. In the background, a large, bright orange sun dominates the sky, and a smaller, darker planet is visible to the right. The overall atmosphere is dramatic and futuristic.

# TRAPPIST-1

НОВАЯ НАДЕЖДА ЧЕЛОВЕЧЕСТВА