

Novosti iz astronomije



Zagreb, 7. srpnja 2017. g.



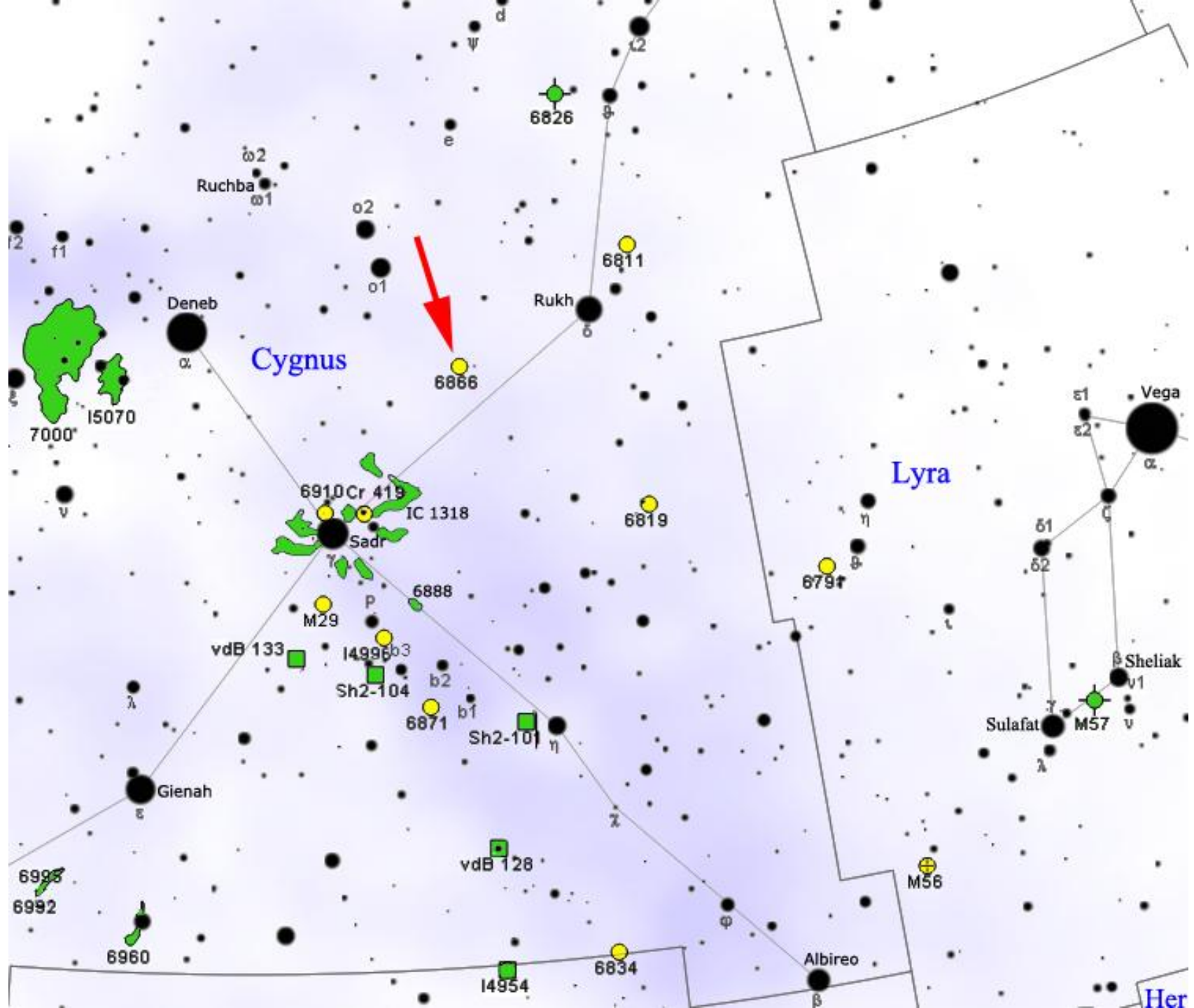
INVASION
OF
FAKE NEWS!

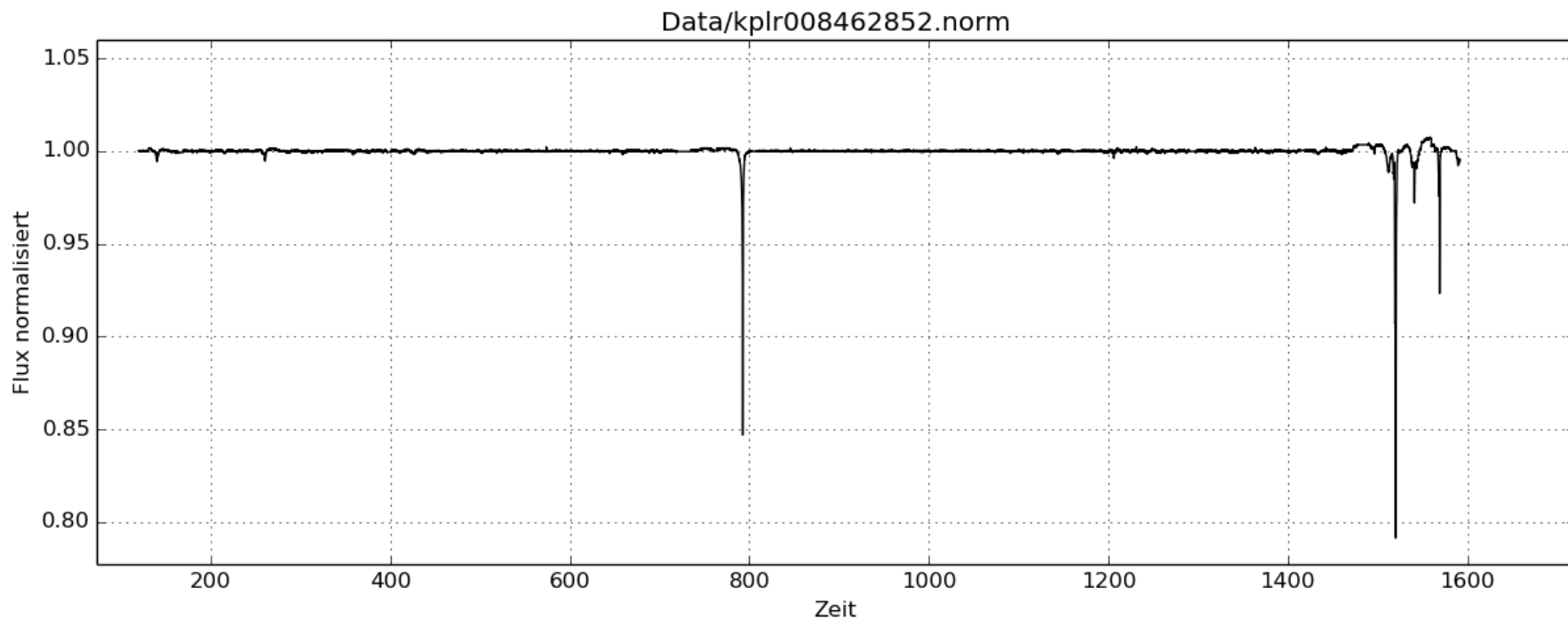


- <https://www.space.com/>
- <https://spaceflightnow.com/>
- <http://www.spaceref.com/>
- <http://www.spaceweather.com/>
- <http://www.skyandtelescope.com/>
- <http://astronomy.com/>
- <http://planetary.org/>

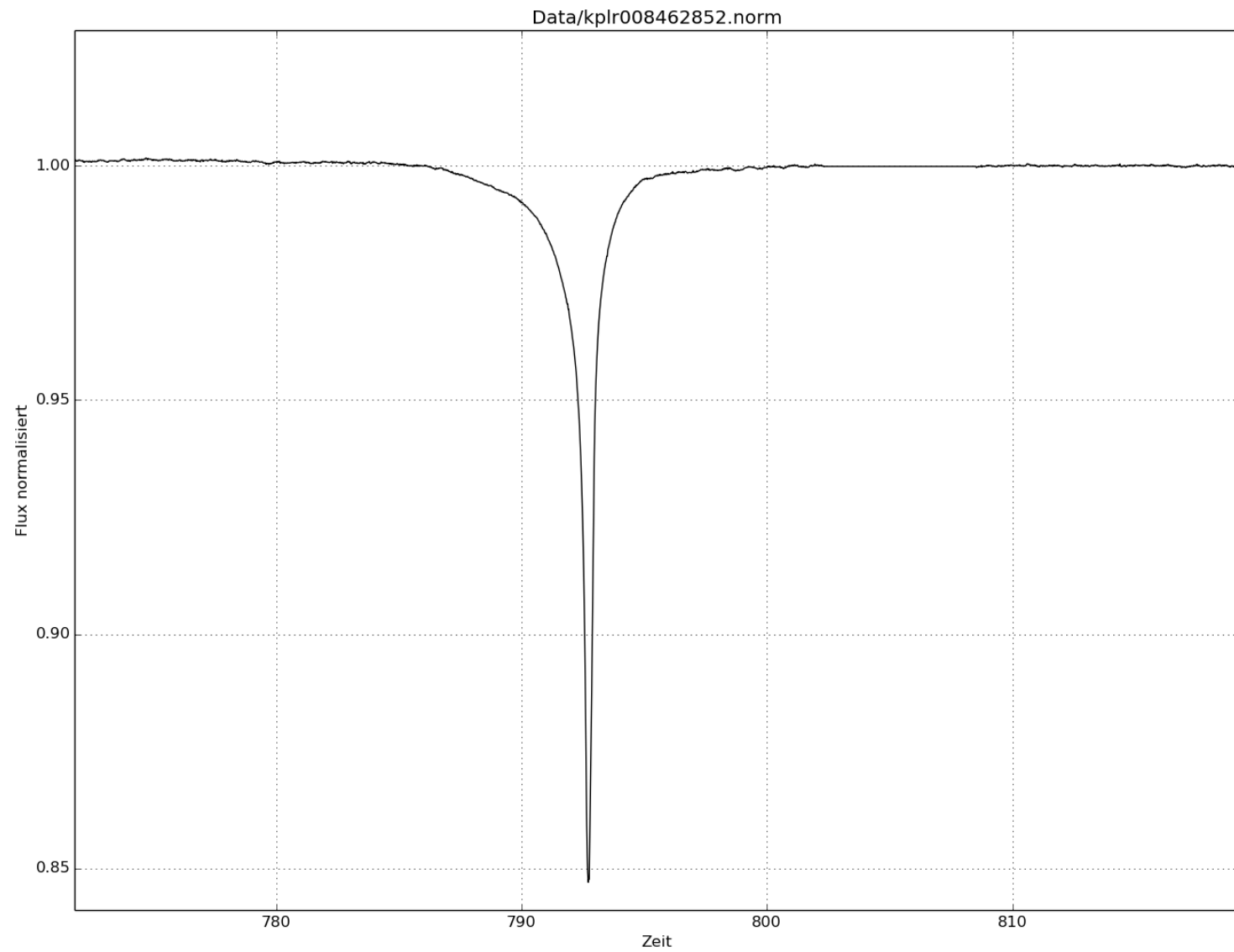
KIC 8462852



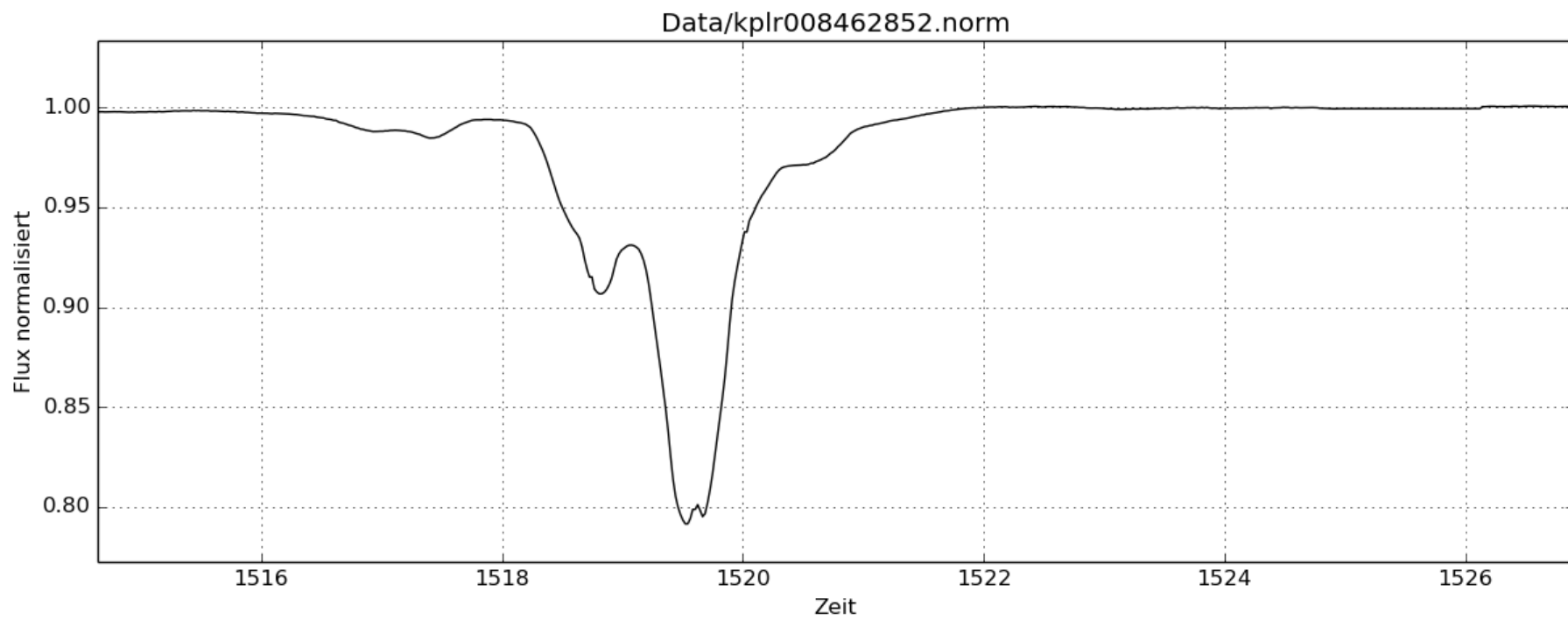




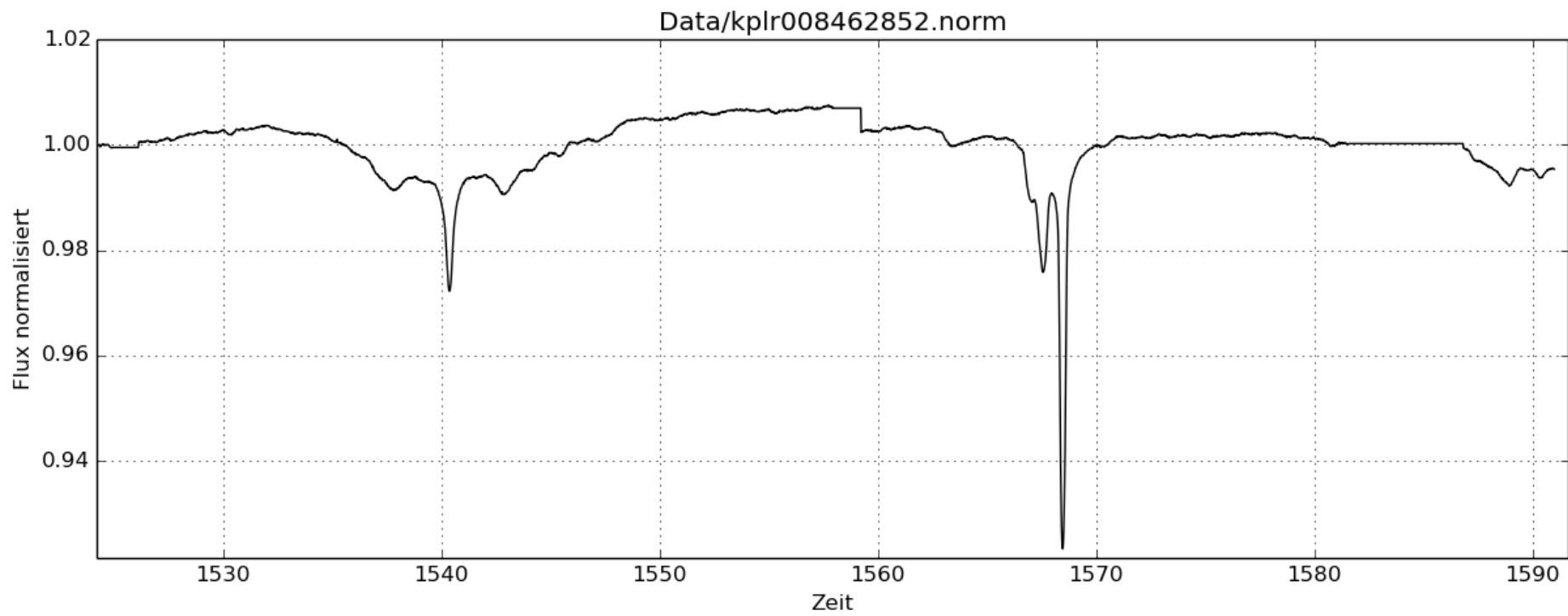
5 March 2011 to 17 April 2013



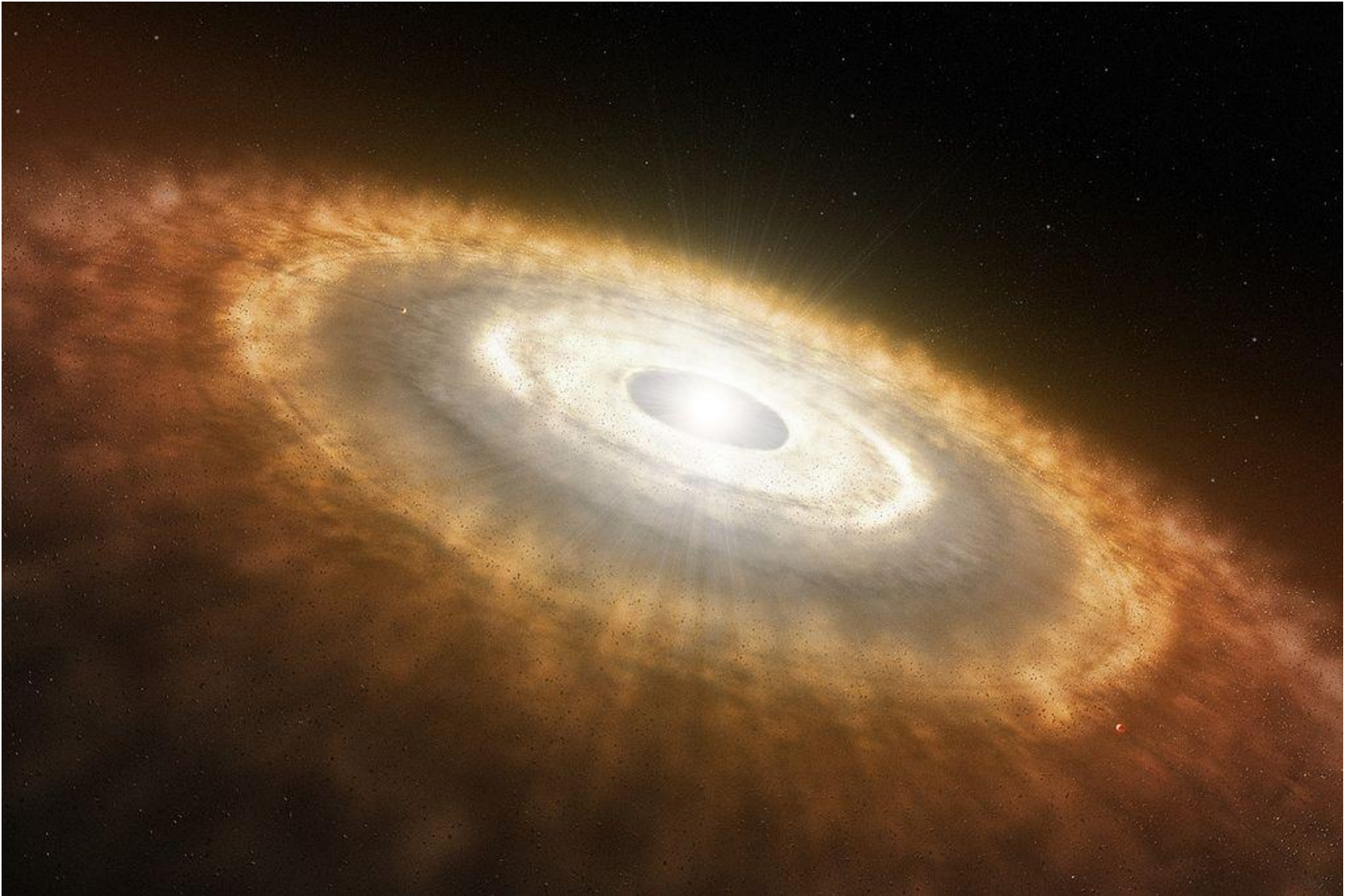
5 March 2011



28 February 2013



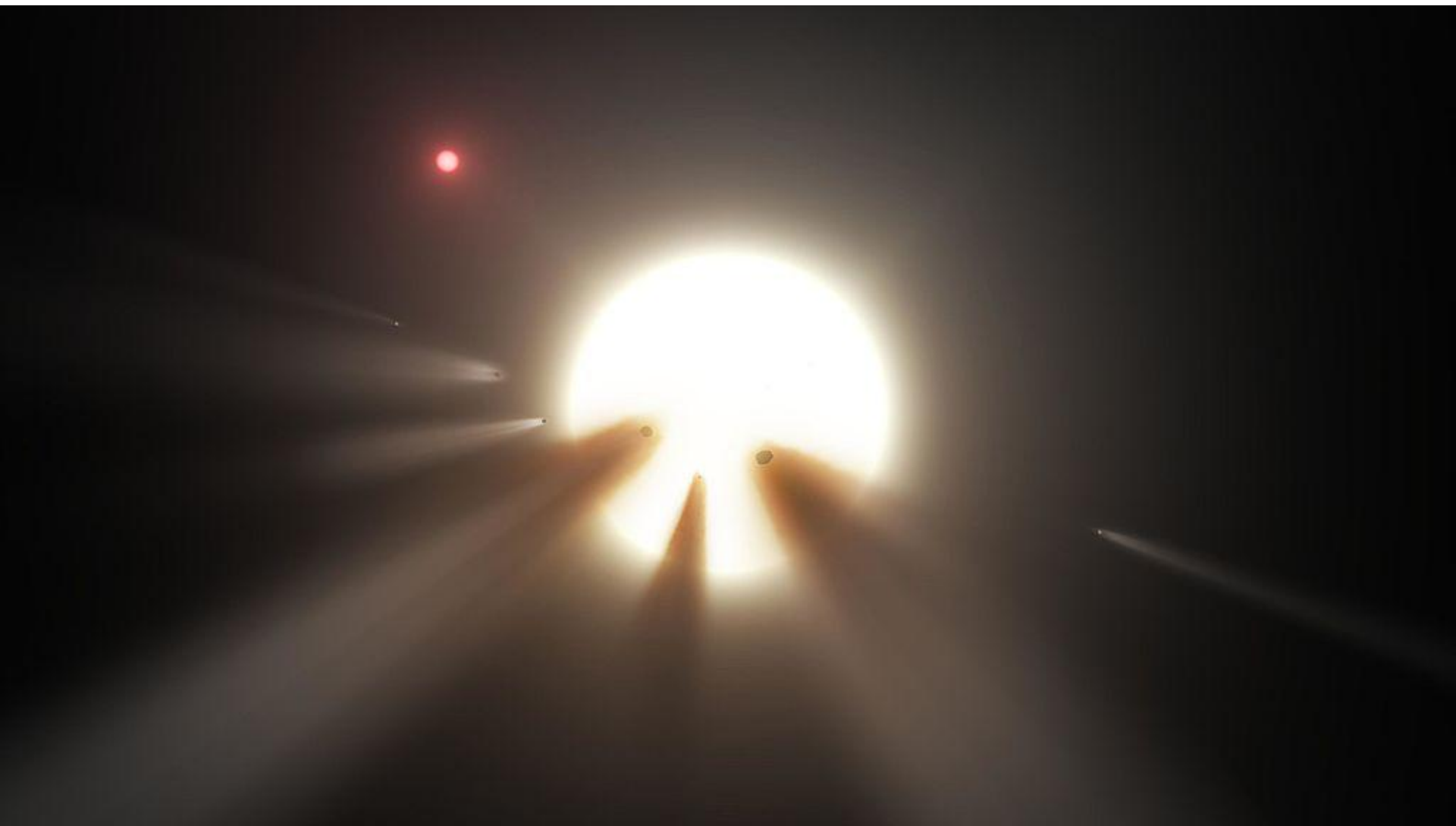
17 April 2013



young star with coalescing material around it



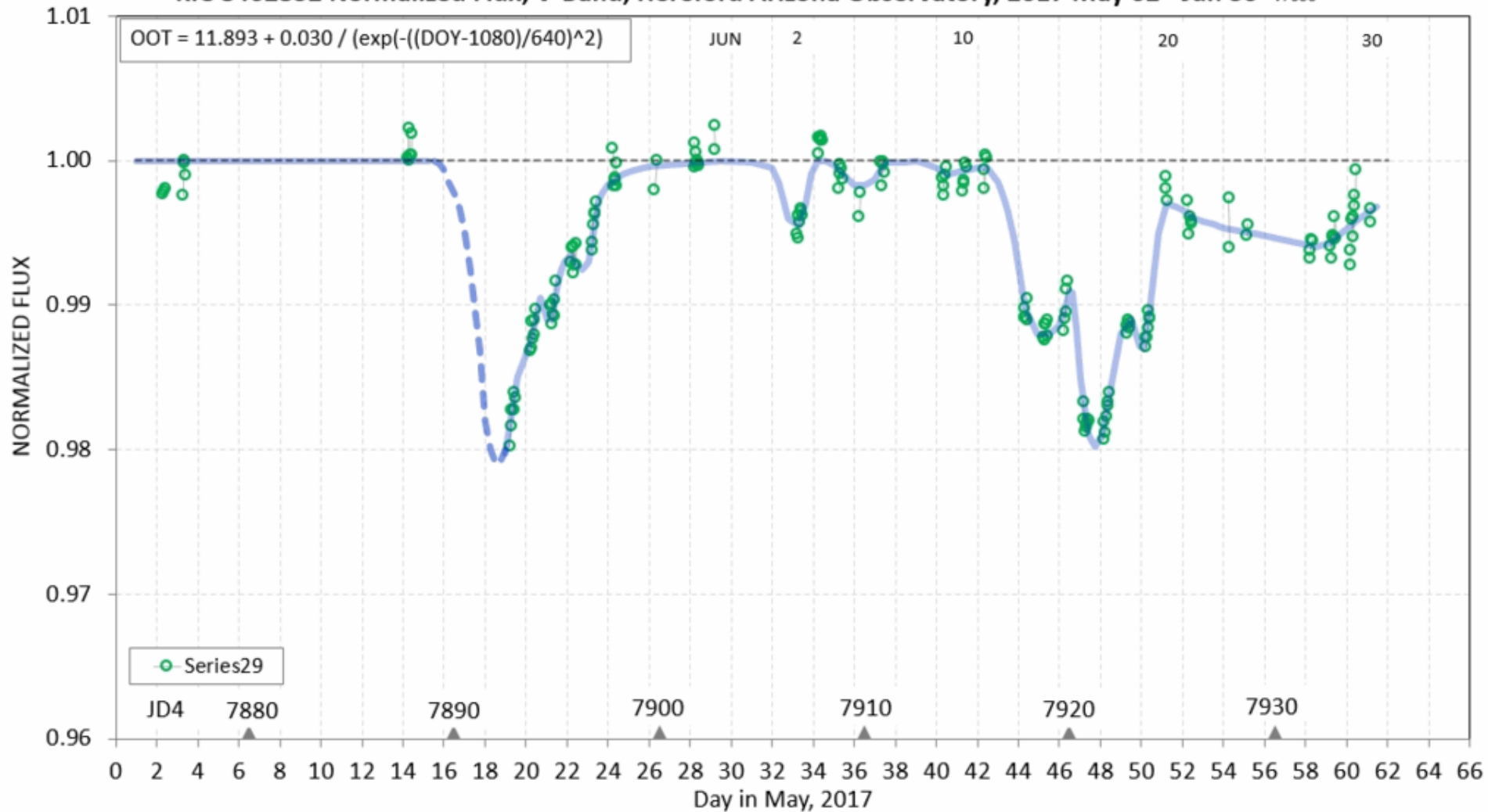
massive collision with a proto-planet



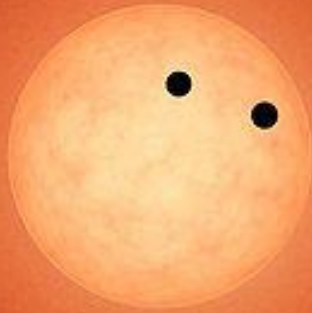
orbiting swarm of dusty comet fragments

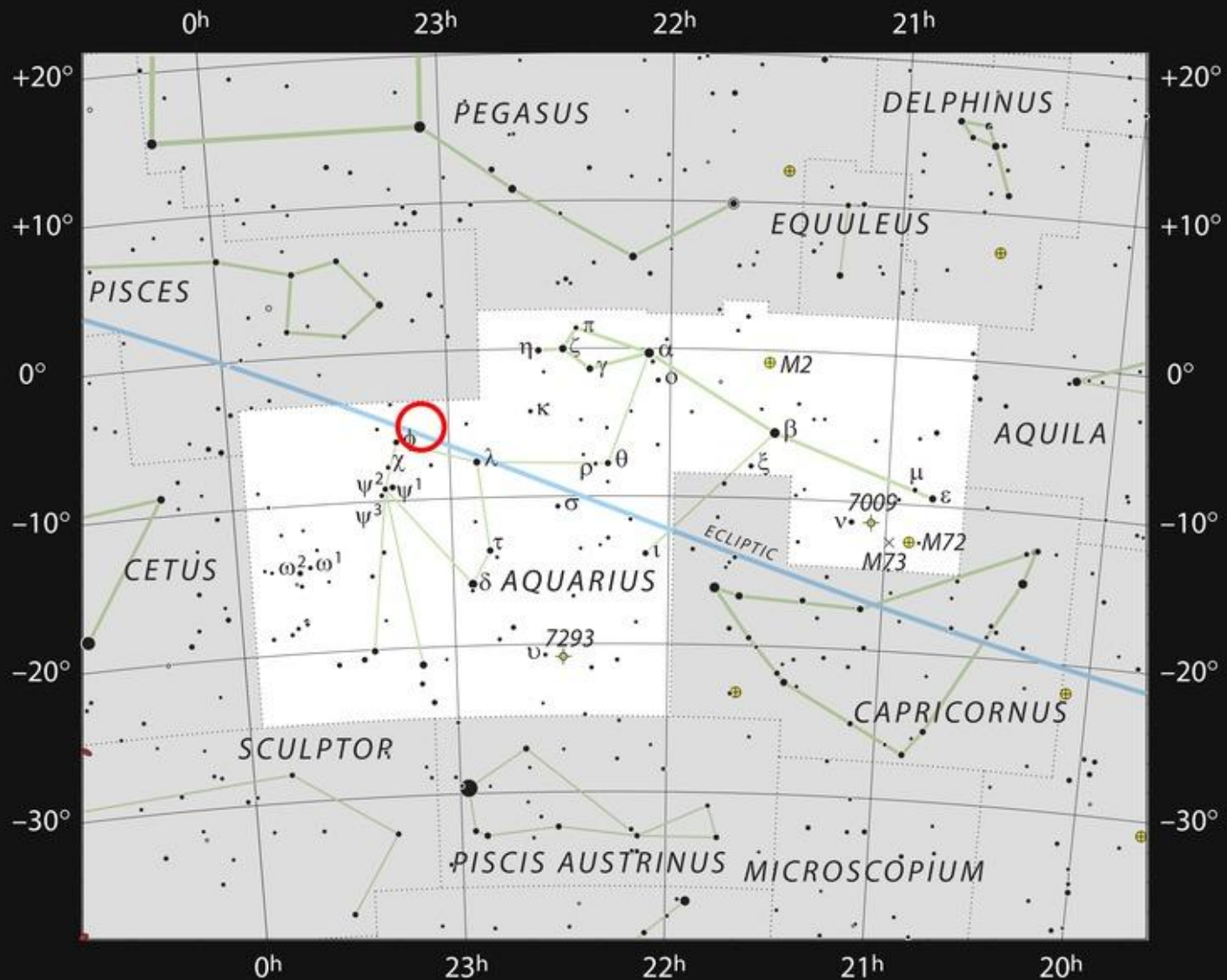


KIC 8462852 Normalized Flux, V-Band, Hereford Arizona Observatory, 2017 May 02 - Jun 30 - v7630



TRAPPIST-1

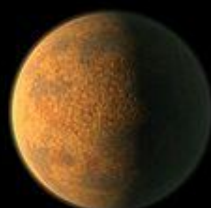




○1 ○2 ○3 ○4 ○5 ○6

TRAPPIST-1
System

b



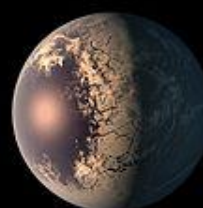
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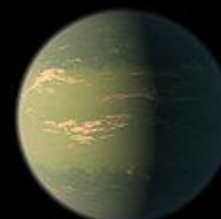
d



e



f



g



h

Orbital Period
*days*1.51 *days*2.42 *days*4.05 *days*6.10 *days*9.21 *days*12.35 *days*~20 *days*Distance to Star
*Astronomical Units (AU)*0.011 *AU*0.015 *AU*0.021 *AU*0.028 *AU*0.037 *AU*0.045 *AU*~0.06 *AU*Planet Radius
*relative to Earth*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} Planet Mass
*relative to Earth*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

Mercury



Venus



Earth



Mars

Orbital Period
*days*87.97 *days*224.70 *days*365.26 *days*686.98 *days*Distance to Star
*Astronomical Units (AU)*0.387 *AU*0.723 *AU*1.000 *AU*1.524 *AU*Planet Radius
*relative to Earth*0.38 R_{earth} 0.95 R_{earth} 1.00 R_{earth} 0.53 R_{earth} Planet Mass
*relative to Earth*0.06 M_{earth} 0.82 M_{earth} 1.00 M_{earth} 0.11 M_{earth}

Size Comparison

between TRAPPIST-1 system, Galilean moons of Jupiter and the inner Solar System

Galilean moons of Jupiter



Jupiter
Ø 139 822 km

TRAPPIST-1 planets



TRAPPIST-1
Ø 162 793 km

Inner Solar System

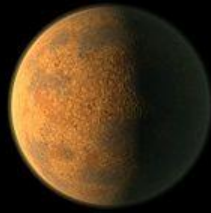


Sun
Ø 1 391 400 km

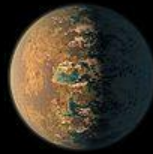
TRAPPIST-1 System



b



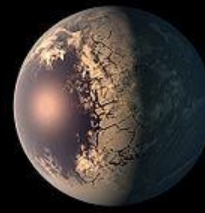
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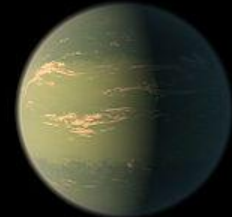
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e



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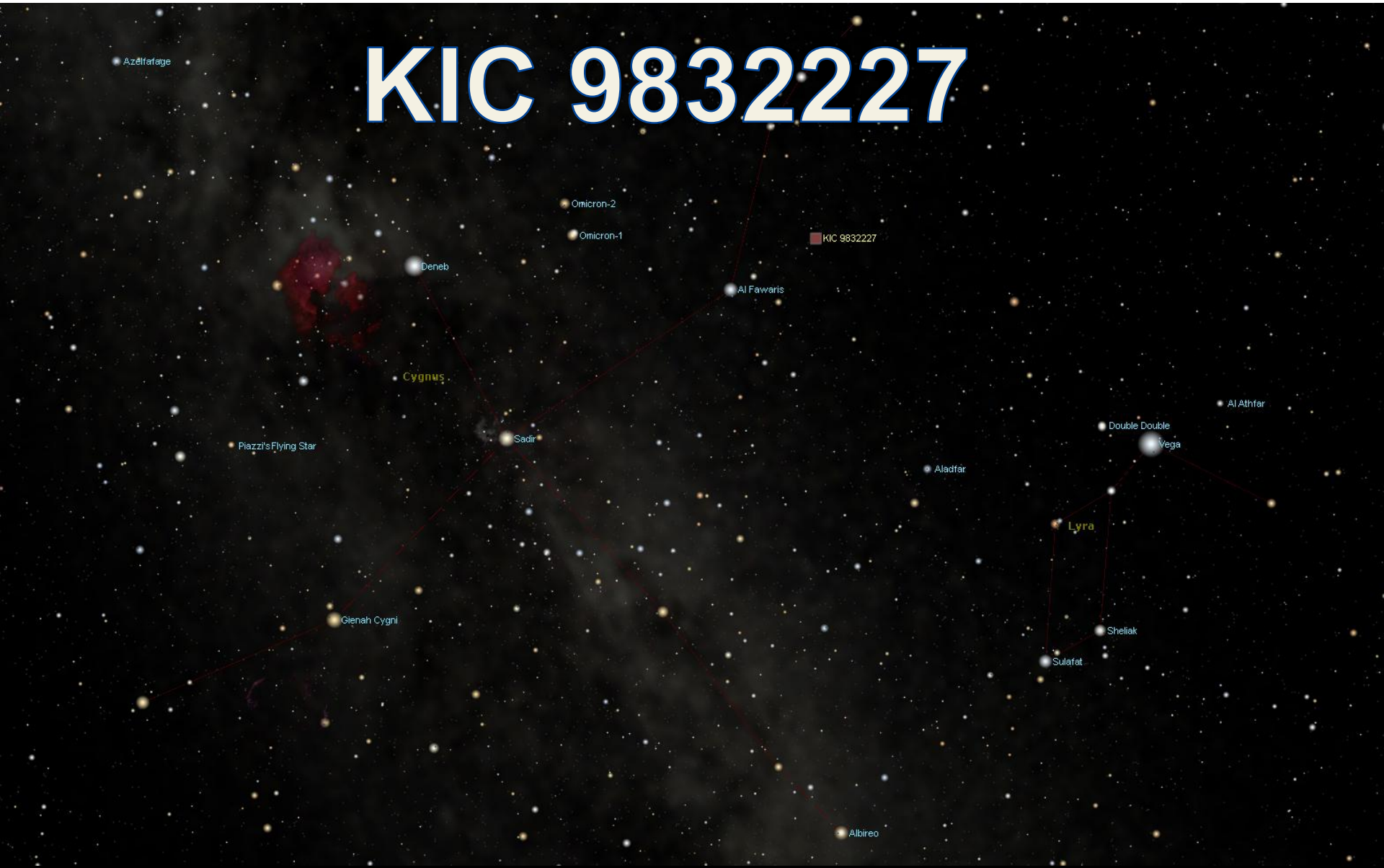
h

Illustration

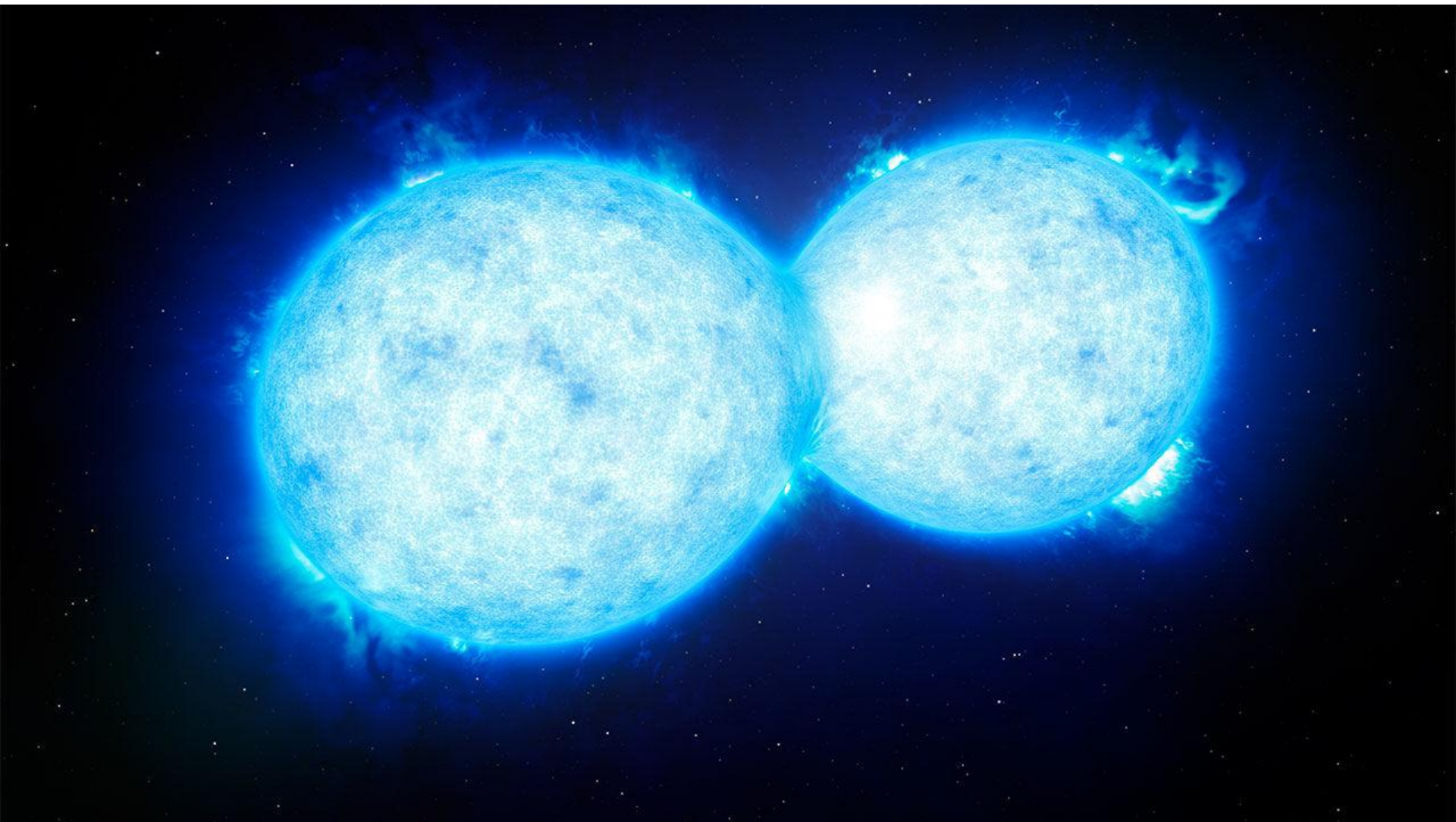


Animacija

KIC 9832227



KIC 9832227





predicted to be visible to the naked eye,
reaching magnitude 2, for a few weeks
between July 2021 and September 2022

Hvala na pozornosti!

- <https://www.space.com/>
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- <http://www.spaceref.com/>
- <http://www.spaceweather.com/>
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- <http://astronomy.com/>
- <http://planetary.org/>