Cosmic shadow of HBC 672

(https://cdn.spacetelescope.org/archives/images/screen/heic1819a.jpg)

This image, taken with the NASA/ESA Hubble Space Telescope shows the Serpens Nebula, a stellar nursery about 1300 light-years away. Within the nebula, in the upper right of the image, a shadow is created by the protoplanetary disc surrounding the star HBC 672. While the disc of debris is too tiny to be seen even by Hubble, its shadow is projected upon the cloud in which it was born. In this view, the feature — nicknamed the Bat Shadow — spans approximately 200 times the diameter of our own Solar System.

A similar looking shadow phenomenon can be seen emanating from another young star, in the upper left of the image.

Credit: NASA(http://www.nasa.gov/), ESA(http://www.spacetelescope.org/), and STScI(http://www.stsci.edu/)

About the Image

Id:	heic1819a
Type:	Observation
Release date:	31 October 2018, 18:00
Related releases:	heic1819(/news/heic1819/)
Size:	4398 x 3982 px

About the Object

Name:	HBC 672(http://simbad.u-strasbg.fr/simbad/sim-id?Ident=HBC+672), Serpens nebula(http://simbad.u-strasbg.fr/simbad/sim-id?Ident=Serpens+nebula)
Type:	Milky Way : Star : Circumstellar Material : Disk : Protoplanetary Milky Way : Nebula : Appearance : Reflection
Distance:	1300 light years(http://en.wikipedia.org/wiki/Light-year)
Constellation:	Serpens Cauda
Category:	Nebulae(/images/archive/category/nebulae/)

Image Formats

Fullsize Original(/media/archives/images/original/heic1819a.tif)
100.2 MB checksum
Large JPEG(https://cdn.spacetelescope.org/archives/images/large/heic1819a.jpg)
2.6 MB
Publication TIFF 4K(/media/archives/images/publicationtiff/heic1819a.tif)
15.2 MB
Publication JPEG(https://cdn.spacetelescope.org/archives/images/publicationjpg/heic1819a.jpg)
2.2 MB
Screensize JPEG(https://cdn.spacetelescope.org/archives/images/screen/heic1819a.jpg)
187.6 KB

Zoomable

Zoomable(zoomable/)

Wallpapers

1024x768(https://cdn.spacetelescope.org/archives/images/wallpaper1/heic1819a.jpg)
177.8 KB
1280x1024(https://cdn.spacetelescope.org/archives/images/wallpaper2/heic1819a.jpg)
276.5 KB
1600x1200(https://cdn.spacetelescope.org/archives/images/wallpaper3/heic1819a.jpg)
396.4 KB
1920x1200(https://cdn.spacetelescope.org/archives/images/wallpaper4/heic1819a.jpg)
468.1 KB
2048x1536(https://cdn.spacetelescope.org/archives/images/wallpaper5/heic1819a.jpg)
624.4 KB

Coordinates

Position (RA):	18 29 58.85
Position (Dec):	1° 14' 28.60"
Field of view:	2.20 x 1.99 arcminutes
Orientation:	North is 12.0° left of vertical

J2000 18 29 58.846 +01 14 28.61

FoV: 0" (http://aladin.unistra.fr/)

Optical (DSS2)

Infrared (2MASS)

Crossfade image:

Colours & filters

Band	Wavelength	Telescope
Infrared J	1.25 µm	Hubble Space Telescope WFC3
Infrared H	1.64 µm	Hubble Space Telescope WFC3

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