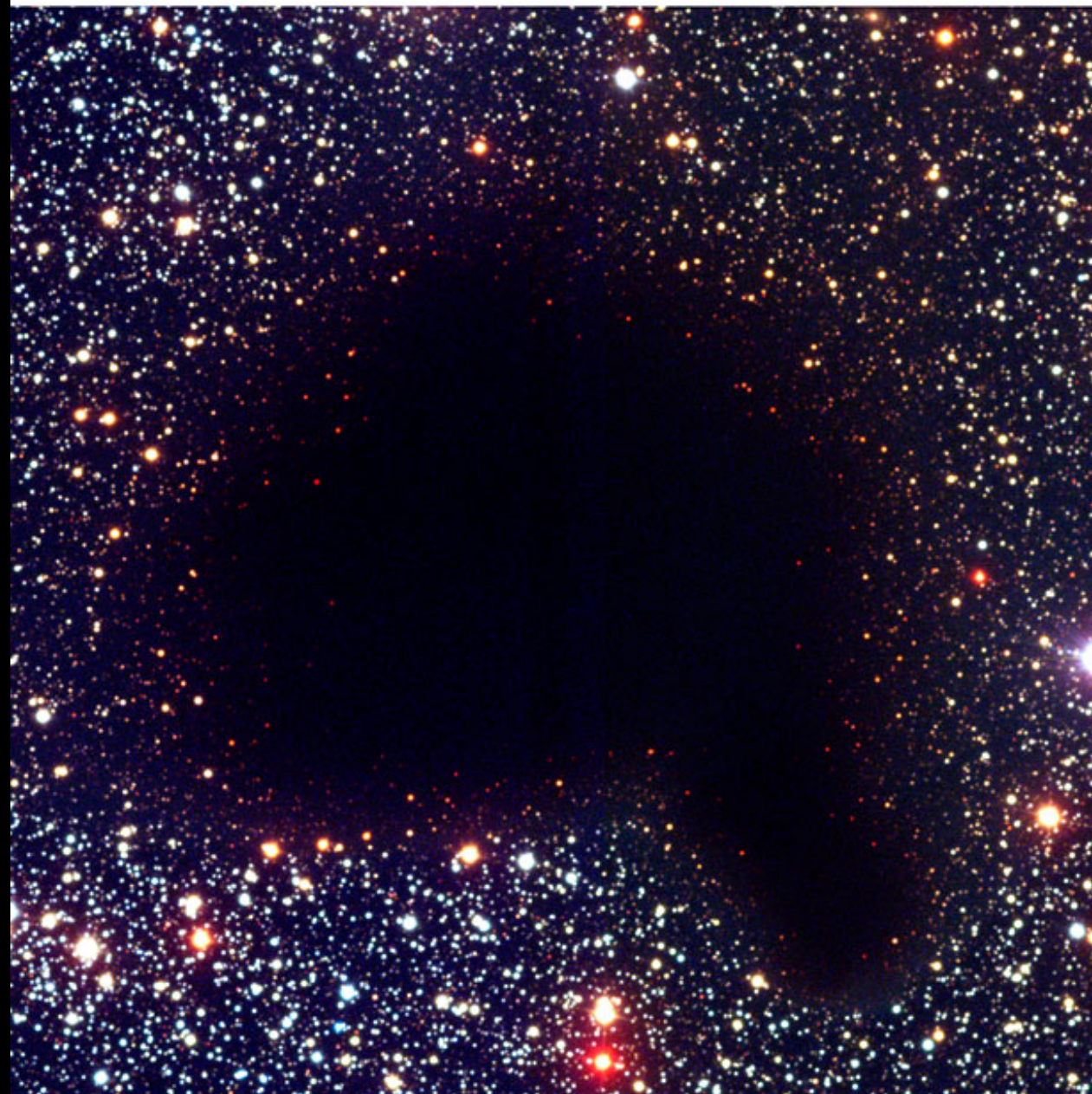


B, I, K



B, V, I

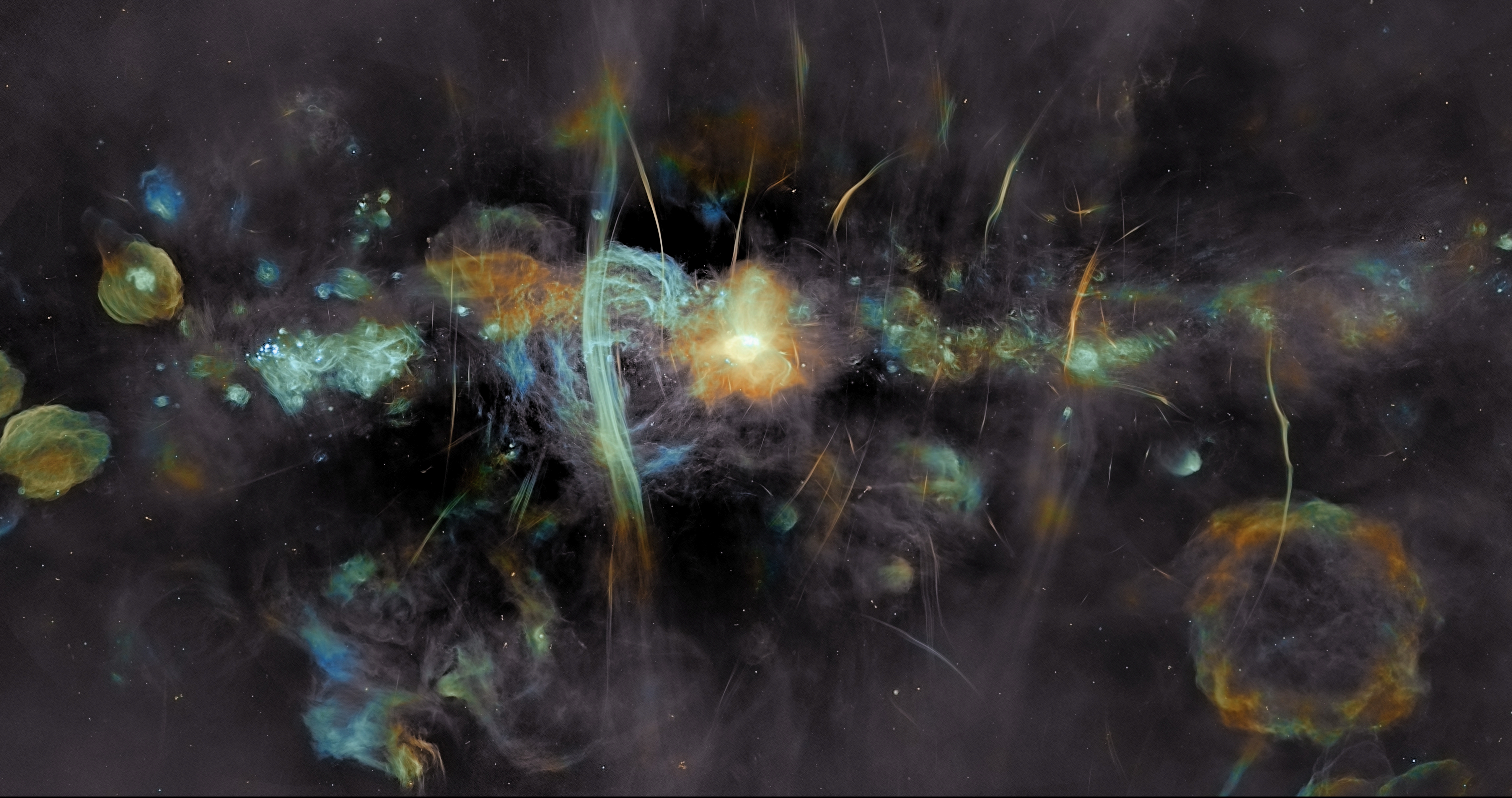


Visible

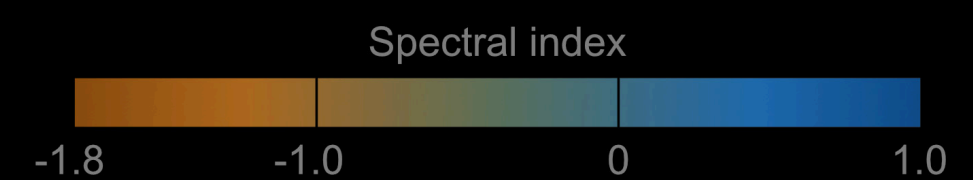


Infrared

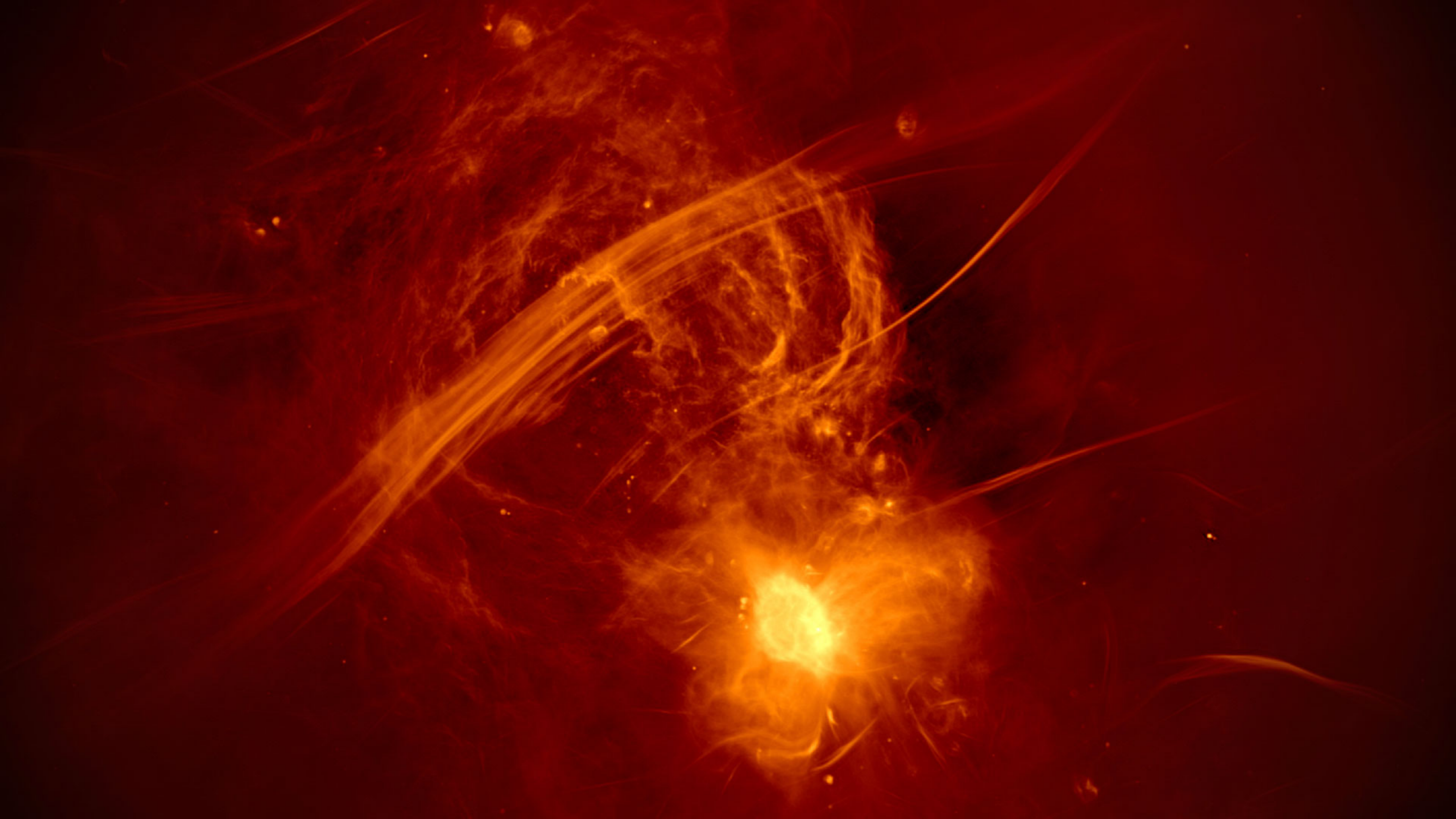
M16 ■ Eagle Nebula
Hubble Space Telescope ■ WFC3/UVIS/IR

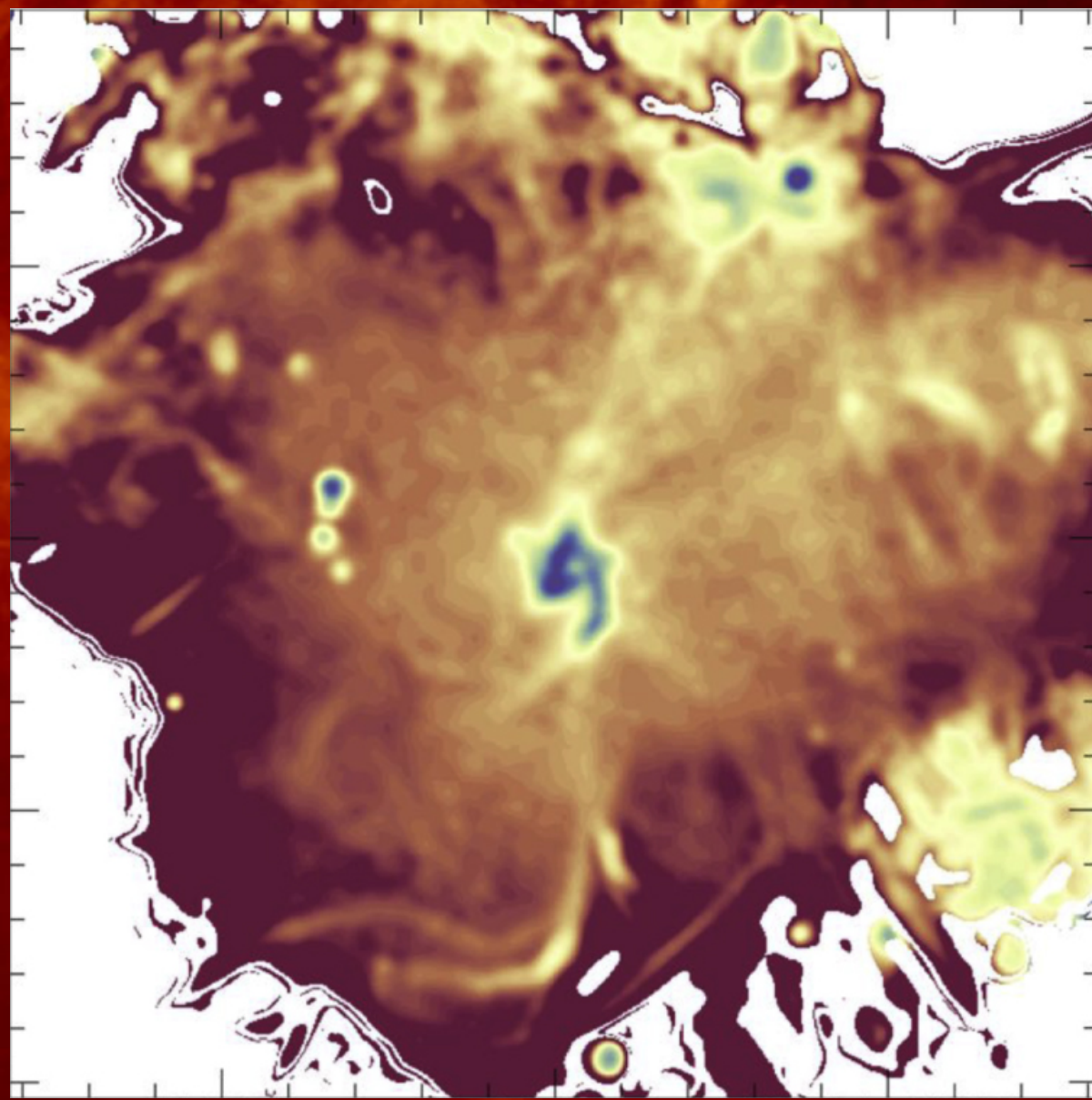
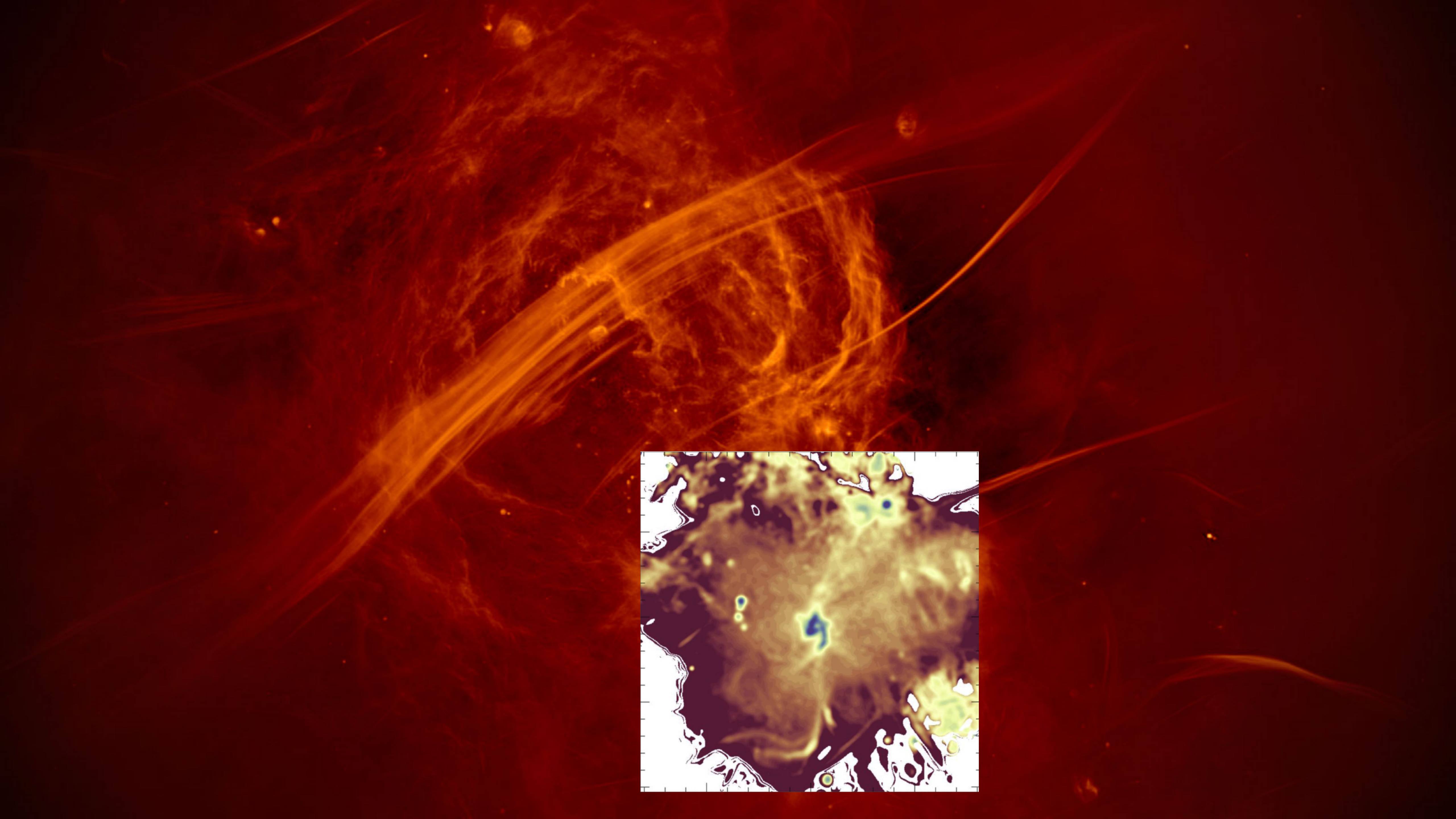


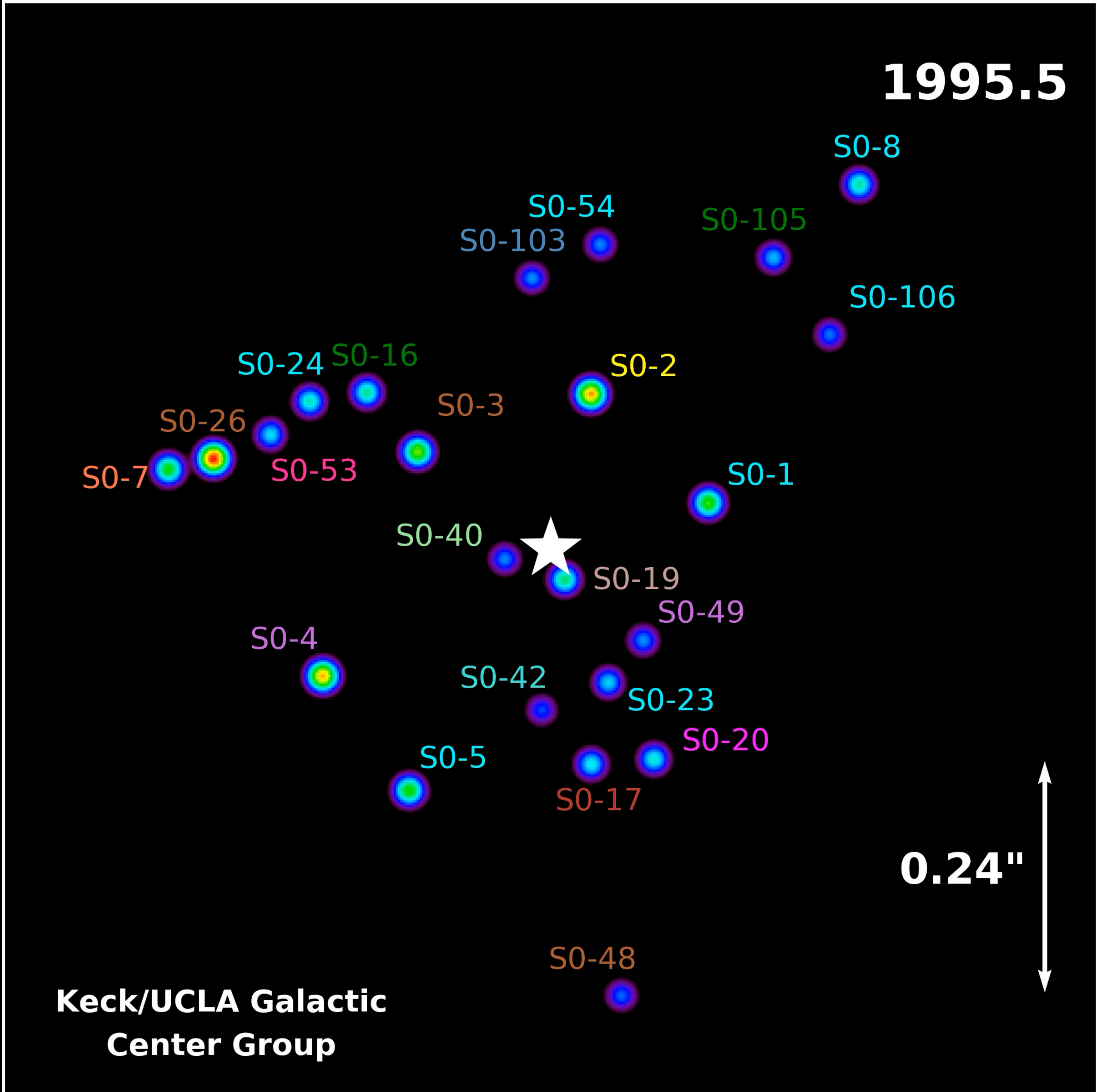
SARAO, Heywood et al. (2022) / J. C. Muñoz-Mateos











~10,000 AU

0.24"

All signs point to a supermassive black hole

Mass $\sim 4 \times 10^6$ solar masses

How did it form?

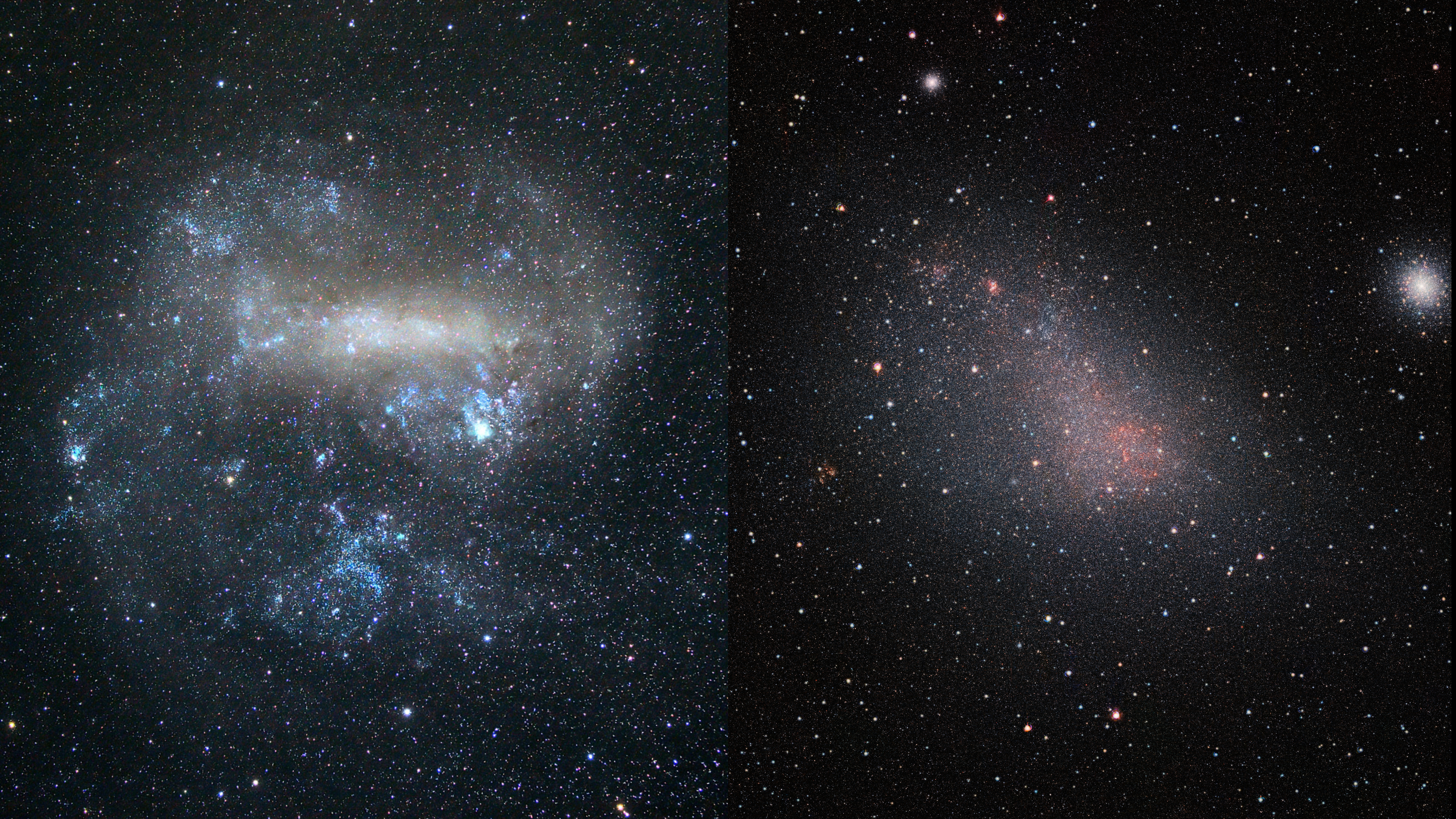
Has it gotten bigger?

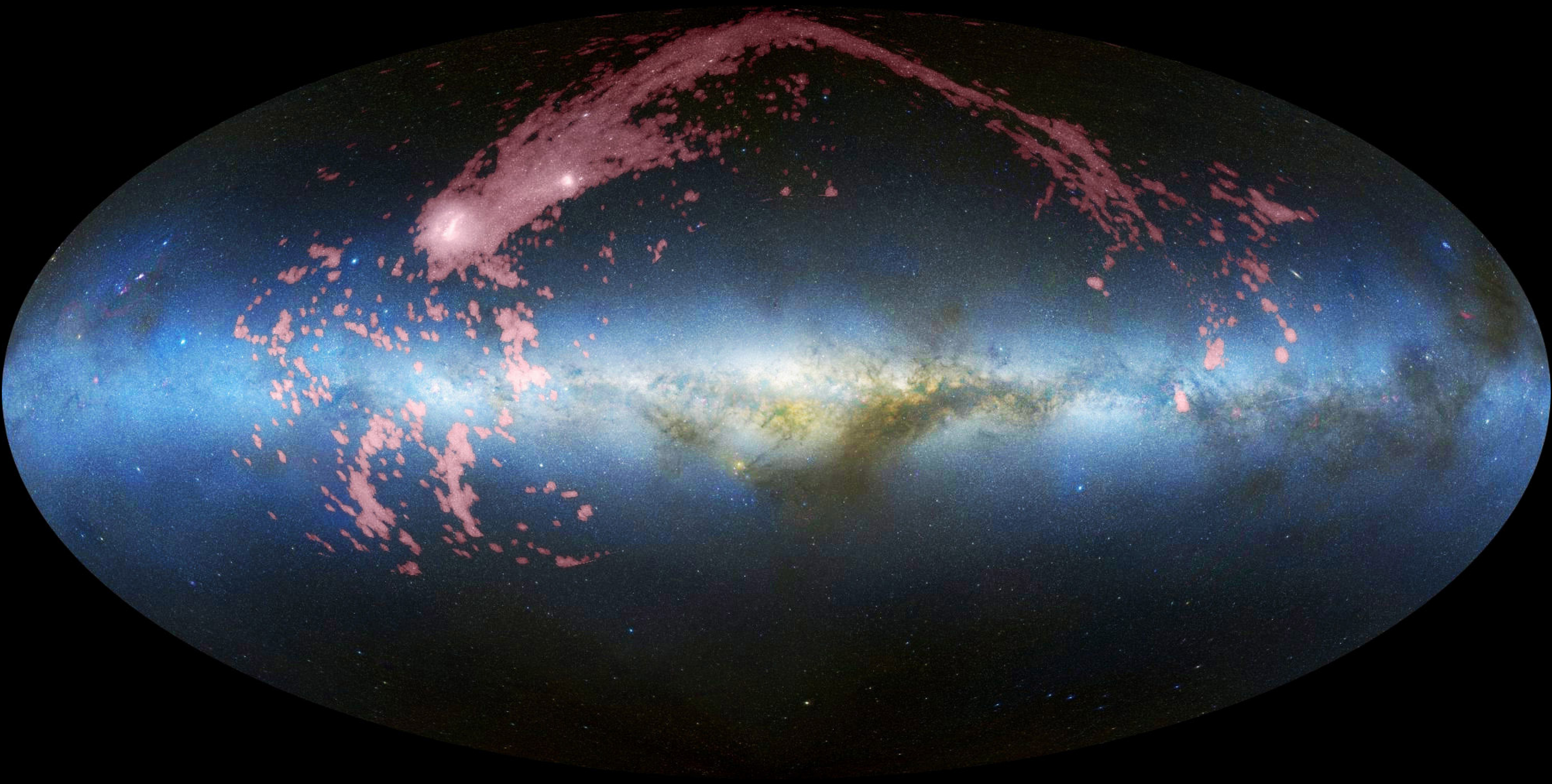
How does it affect the Galactic center?

It's not "eating" now, what happens when it does?

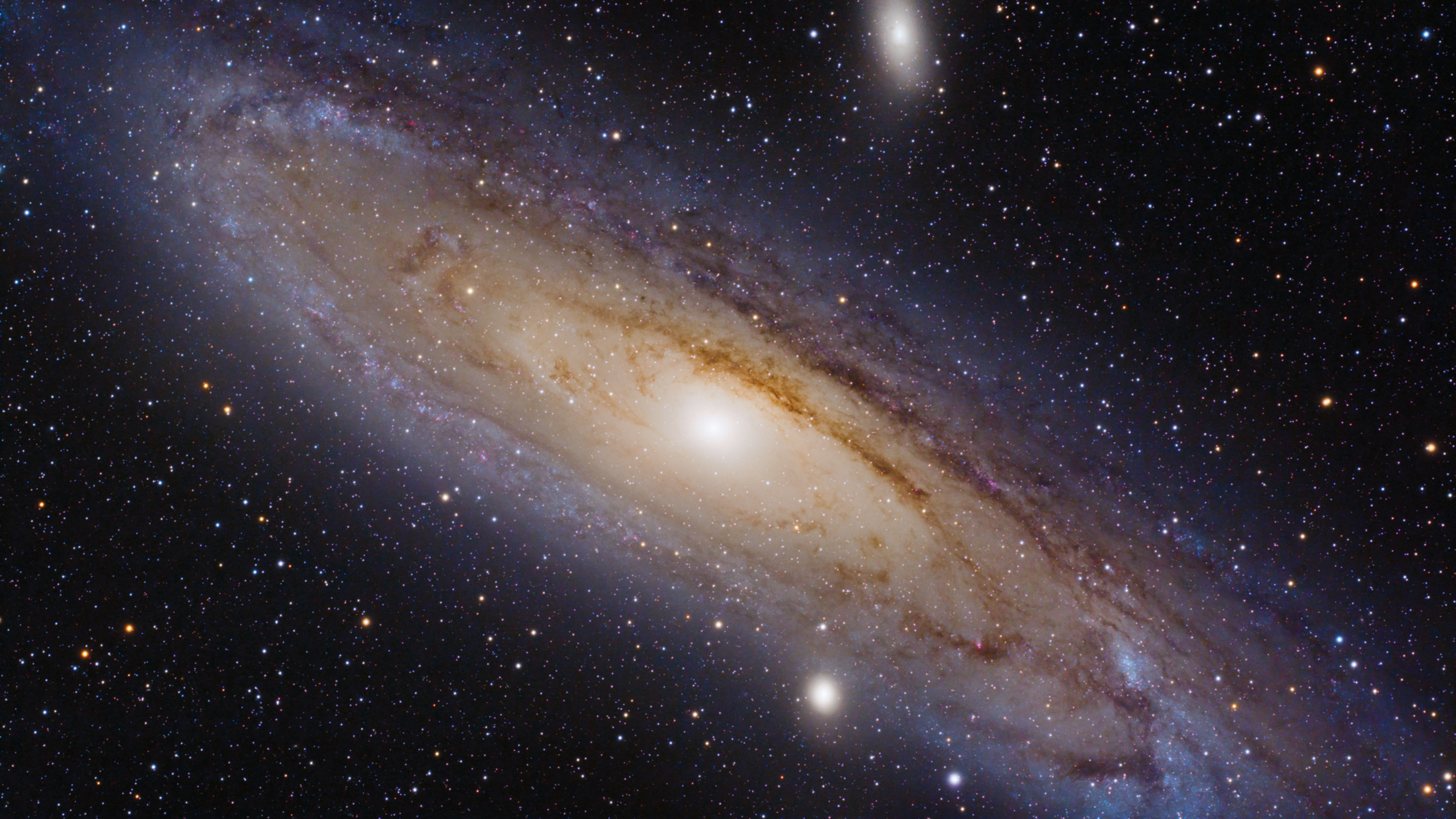
Is this common or rare?

Does every galaxy have one?

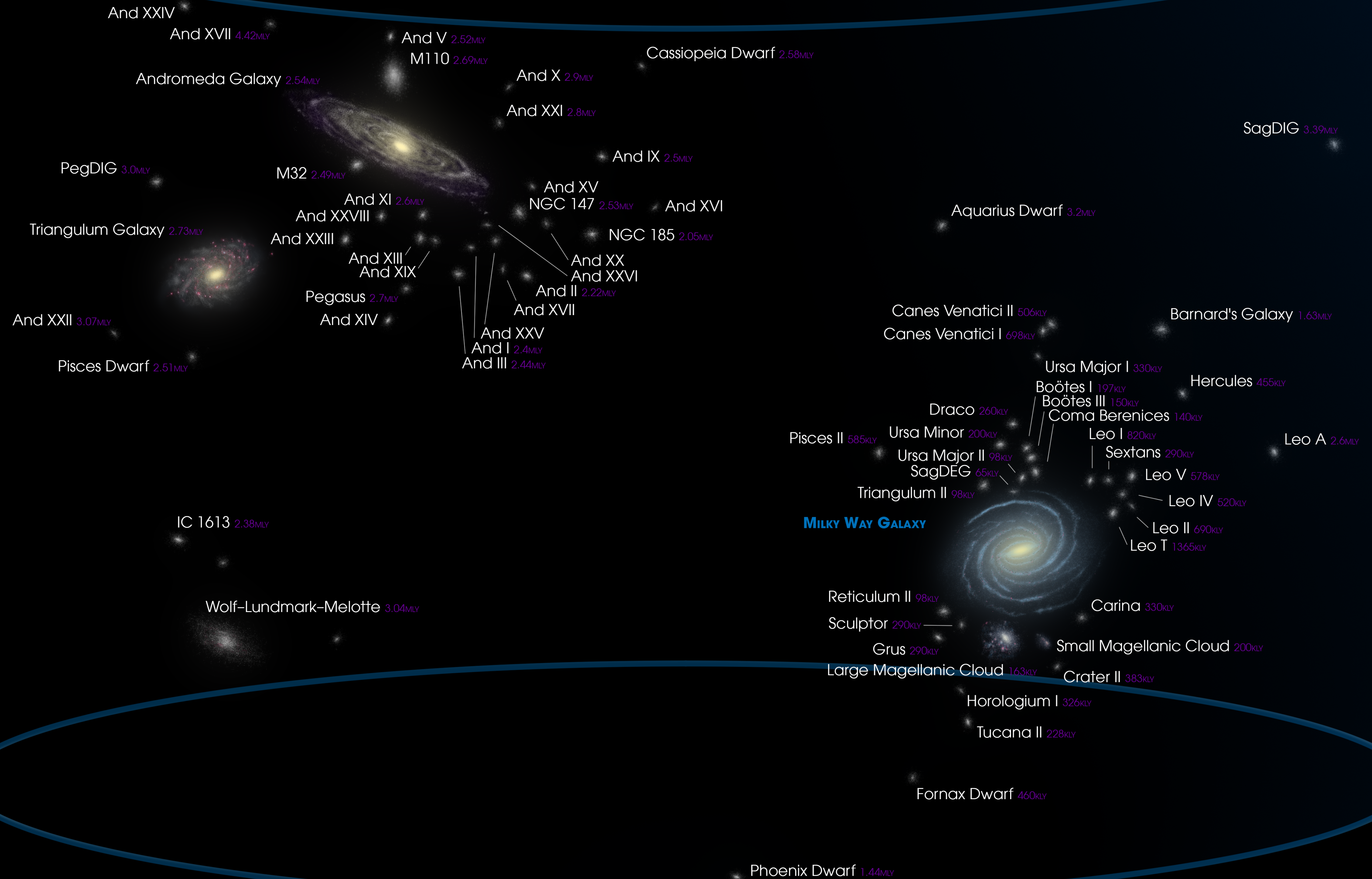








LOCAL GROUP





4.229 billion years



**Illustration Sequence of the Milky Way
and Andromeda Galaxy Colliding**

NASA, ESA, Z. Levay and R. van der Marel (STScI), T. Hallas, and A. Mellinger ■ STScI-PRC12-20b