

Image: Hubble's cosmic atlas

July 28 2017, by Sara Blumberg



Credit: European Space Agency

This beautiful clump of glowing gas, dark dust and glittering stars is the spiral galaxy NGC 4248, located about 24 million light-years away in the

constellation of Canes Venatici (The Hunting Dogs).

This image was produced by the NASA/ESA Hubble Space Telescope as it embarked upon compiling the first Hubble ultraviolet "atlas," for which the telescope targeted 50 nearby star-forming galaxies. The collection spans all kinds of different morphologies, masses, and structures. Studying this sample can help us to piece together the star-formation history of the Universe.

By exploring how massive stars form and evolve within such galaxies, astronomers can learn more about how, when, and where star formation occurs, how star clusters change over time, and how the process of forming new stars is related to the properties of both the [host galaxy](#) and the surrounding interstellar medium (the gas and dust that fills the space between individual stars).

This galaxy was imaged with observations from Hubble's Wide Field Camera 3.

Provided by NASA's Goddard Space Flight Center

Citation: Image: Hubble's cosmic atlas (2017, July 28) retrieved 4 February 2023 from <https://phys.org/news/2017-07-image-hubble-cosmic-atlas.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--