





File:A New View of the Tarantula Nebula.jpg


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Summary

Description	English: To celebrate its 22nd anniversary in orbit, the Hubble Space Telescope released a dramatic new image of the star-forming region 30 Doradus, also known as the Tarantula Nebula because its glowing filaments resemble spider legs. A new image from all three of NASA's Great Observatories--Chandra, Hubble, and Spitzer--has also been created to mark the event.
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The nebula is located in the neighboring galaxy called the Large Magellanic Cloud, and is one of the largest star-forming regions located close to the Milky Way. At the center of 30 Doradus, thousands of massive stars are blowing off material and producing intense radiation along with powerful winds. The Chandra X-ray Observatory detects gas that has been heated to millions of degrees by these stellar winds and also by supernova explosions. These X-rays, colored blue in this composite image, come from shock fronts--similar to sonic booms--formed by this high-energy stellar activity.

The Hubble data in the composite image, colored green, reveals the light from these massive stars along with different stages of star birth, including embryonic stars a few thousand years old still wrapped in cocoons of dark gas. Infrared emission data from Spitzer, seen in red, shows cooler gas and dust that have giant bubbles carved into them. These bubbles are sculpted by the same searing radiation and strong winds that comes from the massive stars at the center of 30 Doradus.

Deutsch: Zur Feier seines 22. Jahrestags in der Umlaufbahn veröffentlicht das Hubble-Weltraumteleskop ein neues Bild der Sternen-Region 30 Doradus - auch als Tarantel-Nebel bekannt, weil seine leuchtenden Filamente Spinnenbeinen ähneln. Um das Ereignis gebührend zu feiern, wurde auch ein neues Bild von allen drei großen Observatorien der NASA (Chandra, Hubble und Spitzer) erstellt.

Der Nebel befindet sich in der benachbarten Galaxie namens Große Magellansche Wolke und ist eine der größten Sternbildungsregionen in der Nähe der Milchstraße. In der Mitte des 30 Doradus blasen Tausende von massereichen Sternen Material ab und produzieren so eine intensive Strahlung und starke Winde. Das Chandra Röntgen-Observatorium hat Gas entdeckt, das durch diese stellaren Winde und auch durch Supernova-Explosionen auf mehrere Millionen Grad aufgeheizt wurde. Diese Röntgenstrahlen, in diesem zusammengesetzten Bild blau eingefärbt, werden von Schockfronten - ähnlich wie Überschallknall - von dieser hochenergetischen stellaren Aktivität gebildet.


Die Hubble-Daten (grün eingefärbt), zeigen das Licht aus diesen massereichen Sterne zusammen mit verschiedenen Stadien der Geburt von Sternen, einschließlich embryonale Sterne, die erst ein paar tausend Jahre alt und noch in Kokons aus dunklem Gas gehüllt sind. Infrarot-Emissionsdaten von Spitzer (rot gefärbt) zeigen kühleres Gas und Staub, die riesige Blasen in sie getrieben haben. Diese Blasen werden von derselben sengenden Strahlung und starken Winden, die von den massereichen Sternen in der Mitte des 30 Doradus ausgehen, geformt.

Date 23 April 2012

Source http://www.nasa.gov/multimedia/imagegallery/image_feature_2231.html

Author NASA

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Pixel composition	RGB
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Vertical resolution	300 dpi
Data arrangement	chunky format
Software used	Adobe Photoshop CS4 Windows
File change date and time	20:55, 23 April 2012
Exif version	2.2
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