

Star formation triggered by the expansion of Galactic H II regions

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How do massive stars form?

Massive stars control the chemical and dynamical evolution of Galaxies.

Massive stars are rare, evolve rapidly.

However the way they form is still debated.

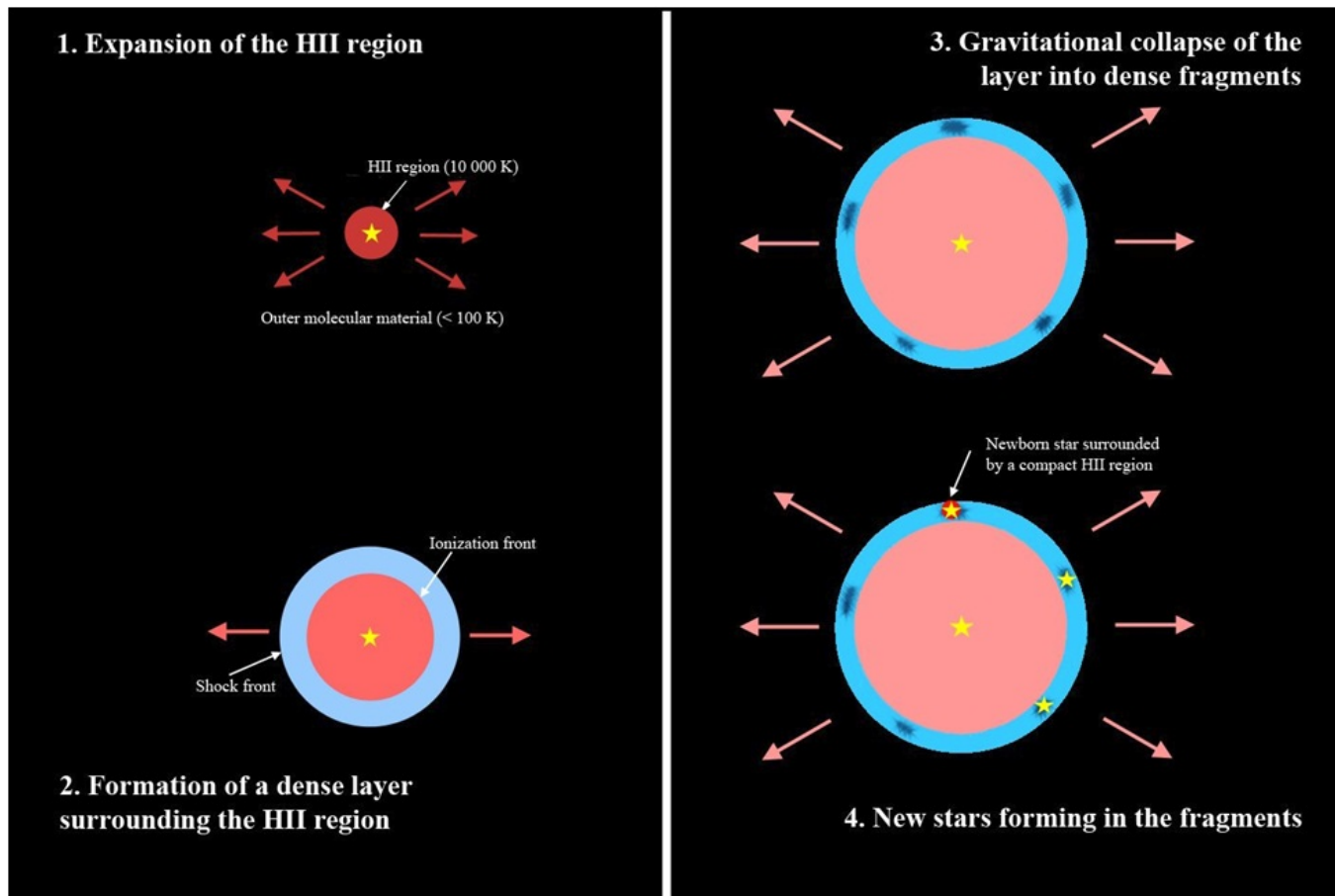
Why? UV radiation and accretion.

But massive stars (up to $120 M_{\text{Sun}}$) are observed

Our goal with Herschel: identify the earliest stages of massive star formation in privileged sites to understand how they form.

The collect and collapse process

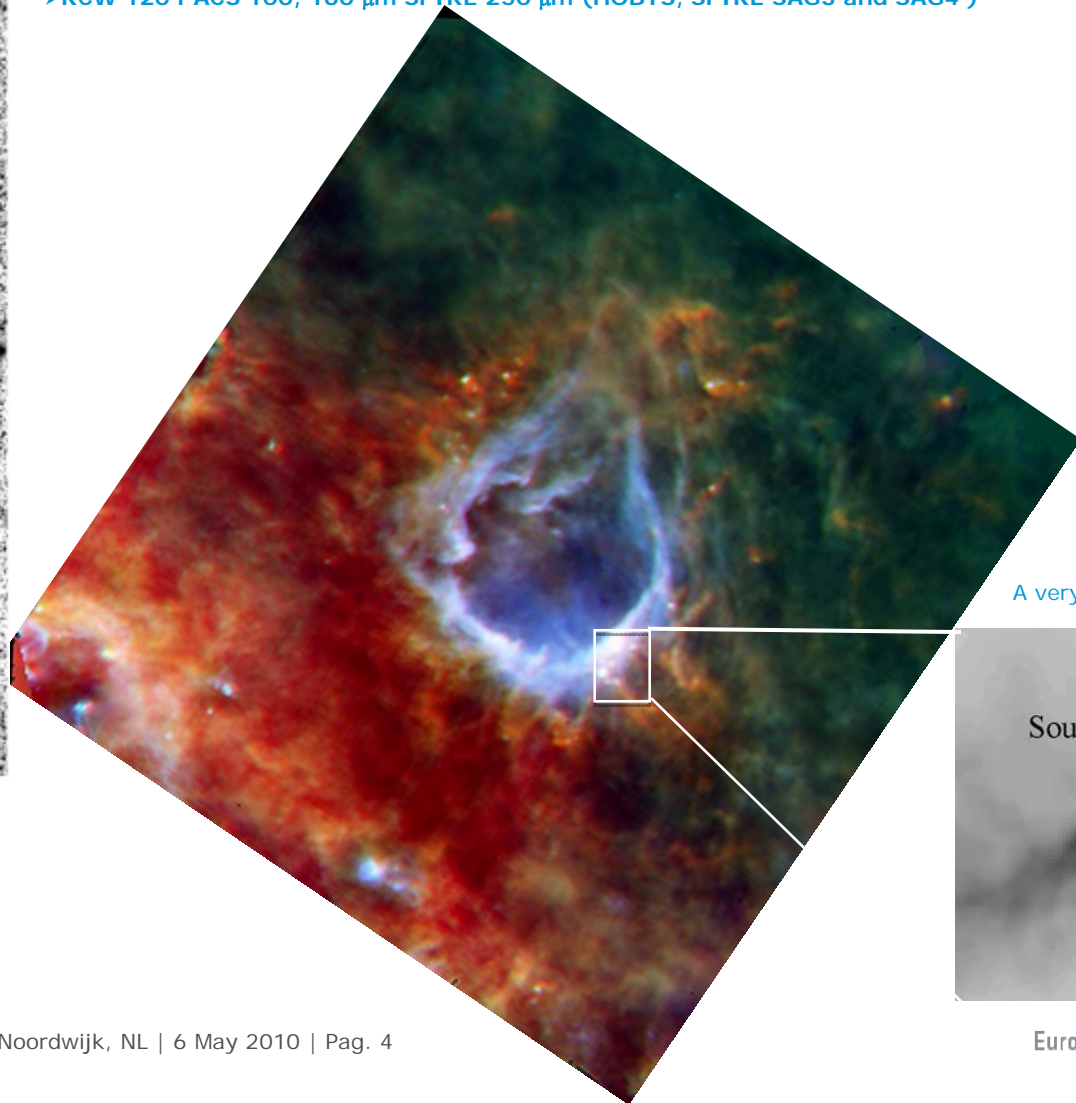
Trigger the formation of (massive) stars by means of ionized regions expansion



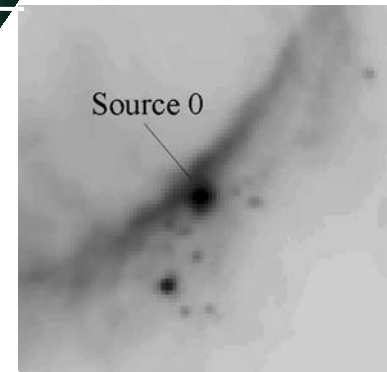
Bubbles in the Galaxy with Herschel: reveal the dark side of star formation



➤RCW 120 PACS 100, 160 μm SPIRE 250 μm (HOBYS, SPIRE SAG3 and SAG4)

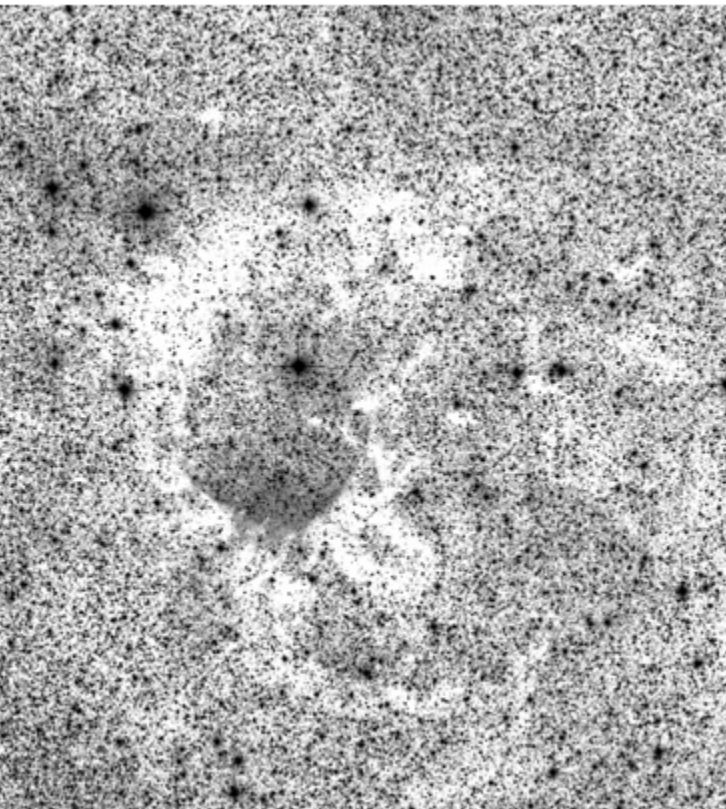


A very young massive star



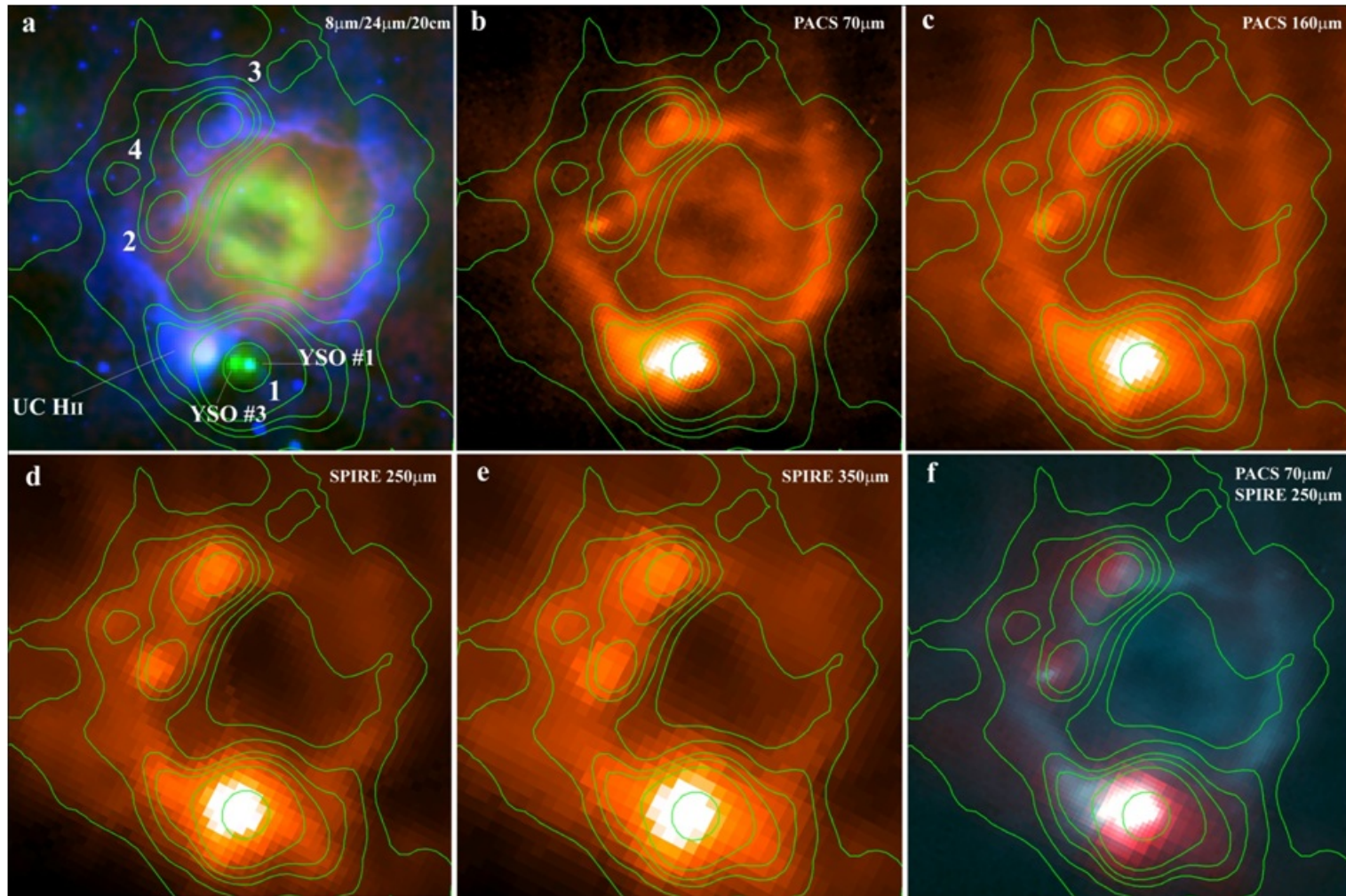
Source 0

European Space Agency



➤RCW 120 K-band 2MASS

Discover very young massive stars with Herschel



THANK YOU

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