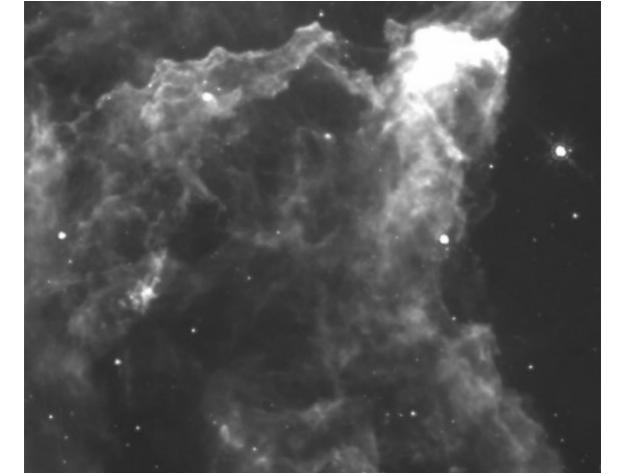
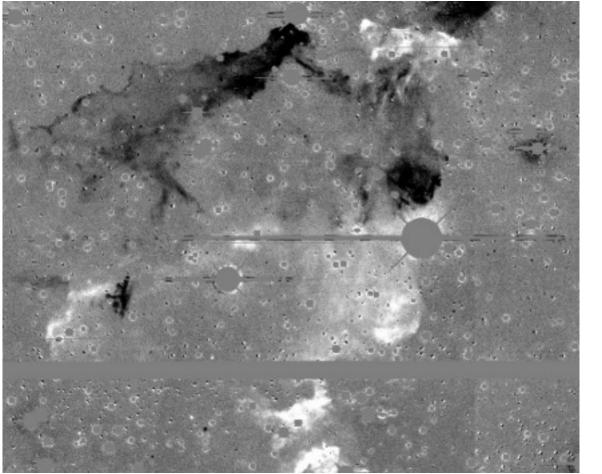
light echoes of N-Carinae

federica b. bianco





















































































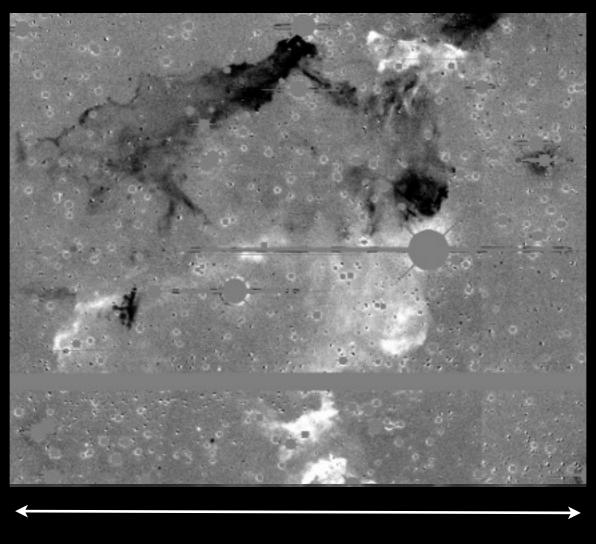




\U00a3-Carinae's light echoes

N-Carinae's light echoes

Light echoes of Great Eruption (1837-1857)



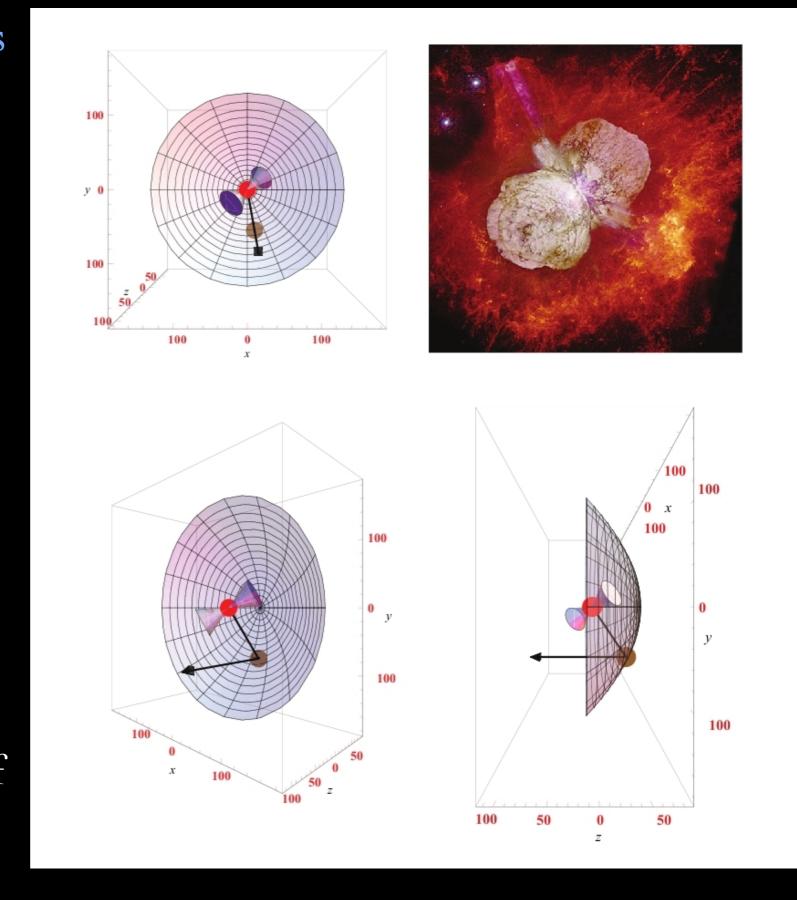
Spitzer Image: dust

8

Difference Image black: light echo in 2003 white: light echo in 2011

the size of the dust sheet illuminated tells the duration of the event

η-Carinae's light echoes



η Car light echoes roughly perpendicular to equator of Homunculus nebula