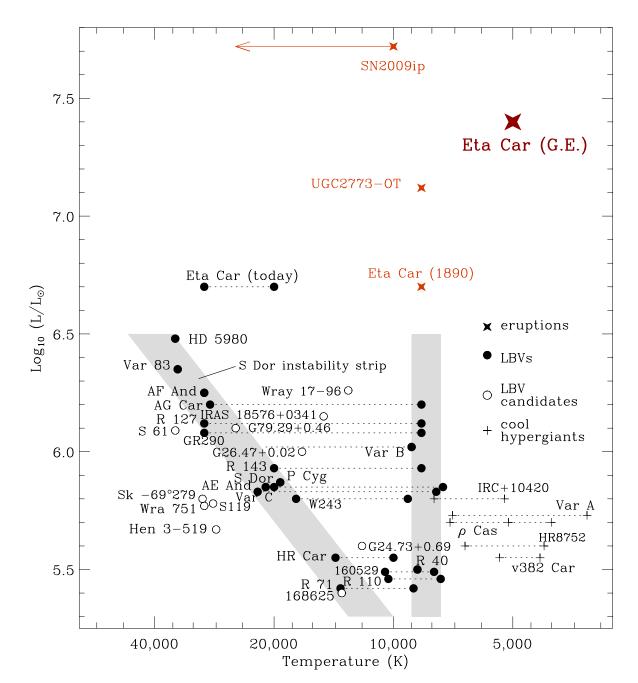
light echoes of N-Carinae

federica b. bianco



Smith+ 2004

Davidson 1997



Vick

1997

Vick 2009



















































































































































Luminous Blue Variables

Luminous Blue Variables

Car-like

- 1.increase in luminosity (unexplained)
- 2.super-Eddington wind
- 3.optically thick pseudo-photosphere forms at larger radius than hydrostatic stellar surface
- 4.mass loss, decrease in effective temp
- 5.pseudo-photosphere moves out (no expansion of star)

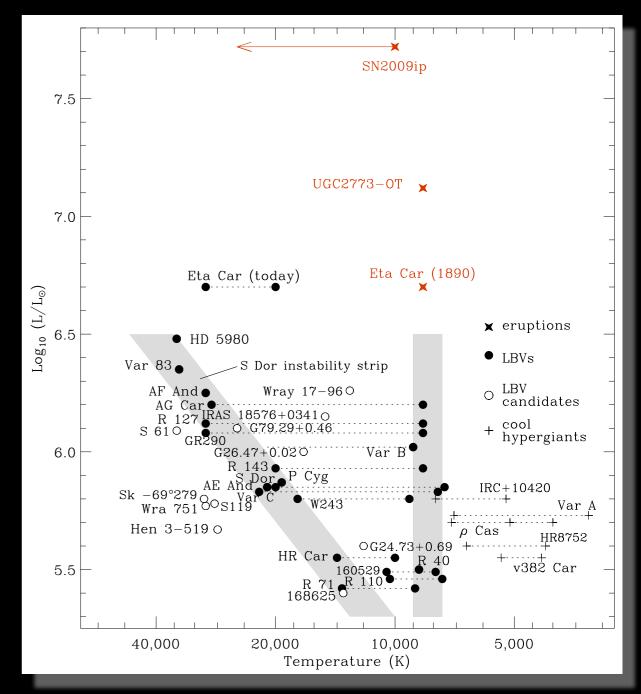
HARD LIMIT T>=7000K, F-type spectrum

S Dor-like

- 1.massive star attempts to evolve redward
- 2.encounters the Humphreys-Davidson Limit beyond which no stable stars are observed

HARD LIMIT T>=7000-9000K A-F-type

"We emphasize however that neither η-Car type nor S-Dor type variations are understood."



Vick 2009

Smith+ 2004 Vick 1997

Davidson 1997

light echoes of N-Carinae

Chapter II

The Great Eruption