

# Script for ESOcast Light 144: Giant Bubbles on Red Giant Star's Surface

ESOcast Light 144	
[Visual starts] ESOcast intro	ESOcast introduction
<b>Title: Giant Bubbles on Red Giant Star's Surface</b>	
1. <b>For the first time, granulation patterns on a star other than the Sun have been seen</b> — using the PIONIER instrument on ESO's VLT.	PIONIER instrument
2. $\pi^1$ Gruis is an <b>ageing red giant</b> star, similar in mass to the Sun, but <b>350 times larger</b> and <b>several thousand times as bright</b> .	Zoom
3. This giant has just <b>a few convective cells</b> , each about <b>120 million km across</b> .	Image of star.
4. Just one of these granules would extend <b>from the Sun to beyond Venus!</b>	
5. By contrast the Sun has around <b>two million convective cells</b> , each about 1500 kilometres across.	Image of solar surface with granulation
6. These stars may seem to have very little in common...	
7. ... but both will one day bloom into <b>spectacular planetary nebulae</b> , and then fade away slowly as white dwarfs.	Planetary Nebulae

8. $\pi^1$ Gruis is approaching this stage, but the Sun has about <b>five billion years left to go!</b>	
<b>00:00</b> <b>[Outro]</b>	<i>Produced by ESO, the European Southern Observatory. Reaching new heights in Astronomy.</i>