

Script for ESOcast Light 140: MUSE Dives into the Hubble Ultra Deep Field

<p>ESOcast Light 140 MUSE: Dives into the Hubble Ultra Deep Field</p>	
<p>[Visual starts]</p> <p>New ESOcast intro</p>	<p>New ESOcast introduction Incl ESO logo</p>
<p>Title: MUSE Dives into the Hubble Ultra Deep Field</p>	
<p>1. Astronomers have used ESO's MUSE instrument on the VLT in Chile to make the deepest spectroscopic survey ever.</p>	<p>VLT and MUSE footage</p>
<p>2. They focused on the Hubble Ultra Deep Field, capturing light from 1600 galaxies — 72 of which had never been seen before.</p>	<p>Image of HUDF then pictures showing all the new ones found by MUSE</p>
<p>3. MUSE can do something that Hubble can't. It splits up the light from every point in an image to create a spectrum...</p>	<p>Integral field spectrograph animation</p>
<p>4. ...allowing astronomers to measure the distance, colours and other properties of galaxies — including some that are even invisible to Hubble itself!</p>	
<p>5. This survey adds a trove of new data about these galaxies, telling us about star formation and galaxy evolution in the early Universe.</p>	<p>Pan across the MUSE HUDF (Image A)</p>
<p>6. Many telescopes have investigated the Hubble Ultra Deep Field, and together teach us about the richness of the young Universe.</p>	

00:00 [Outro]	<i>Produced by ESO, the European Southern Observatory. Reaching new heights in Astronomy.</i>