

# Script for ECL 263 : Irwin MUSE Neptune

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| <b>ESOcast Light 263</b>  |                          |
| <b>[Visual starts]</b><br><b>New ESOcast intro</b>  | New ESOcast introduction |
| <b>Title: Mysterious Neptune Dark Spot Detected from Earth</b>  |                          |
| 1. Using ESO's Very Large Telescope (VLT), astronomers have observed<br><br>a <b>mysterious dark spot</b> in <b>Neptune's atmosphere</b> ,<br><br>the <b>first time</b> this has ever been done <b>from Earth</b> . |                          |
| 2. Astronomers used the VLT to <b>split reflected sunlight</b> from Neptune<br><br>into its <b>component colours</b> .  |                          |
| 3. They found that the spots are likely due to <b>ices and hazes mixing</b> in Neptune's atmosphere<br><br>and <b>darkening air particles</b> .   |                          |
| 4. The observations also offered up a <b>surprise result</b> :<br><br>a <b>rare cloud type</b> appeared as a <b>bright spot</b> right beside the larger dark spot.  |                          |
| 5. "I'm absolutely thrilled to have been able to (...) make the first detection of a dark spot from the ground,"<br>Patrick Irwin, University of Oxford, UK   |                          |

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| <b>[Outro]</b> | <i>Produced by ESO, the European Southern Observatory.<br/>Reaching new heights in Astronomy.</i>  |
|                | <a href="https://www.youtube.com/watch?v=iXS9nQfg8eM">https://www.youtube.com/watch?v=iXS9nQfg8eM</a><br><a href="https://www.youtube.com/watch?v=yDMV7kmrfWY">https://www.youtube.com/watch?v=yDMV7kmrfWY</a> |