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drive up the desert road to the building housing the Astronomers driving to control building		Astronomers driving to control building

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VLT control room.	
At the control building they prepare the observations and check the set-up of the telescope. Observing time on these great telescopes is precious and delays must be avoided at all costs.	Arrival at the building and control room
Like a pilot checking his plane before departure, Dieter goes through a detailed check of "his" instrument, while the telescope operator does the	First activities in the control room
same for the giant telescope.	Scientists on VLT platform during sunset
Everything is good to go, so the team goes to the telescope platform to inspect the weather. The	The VLT domes open
astronomers have travelled far for a glorious view of the Universe, and here a glorious view of the	View of the sunset from the platform
sunset is included for free! As usual at Paranal, the	Astronomers leave the platform
conditions are perfect and Dieter and the visiting astronomers return with high expectations.	
02:40 [Dr J]	
4. So, here we go! This is when all the hard work and preparation pay off. For many astronomers this	Dr. J in virtual studio
is a long awaited moment when they finally get to	Background images:
use one of the world's most advanced science machines to test their ideas of the Universe.	The VLT domes open
Let's join them and see how the first chaoryations	· ·
Let's join them and see how the first observations of the night are going.	Telescope moves into position
02:58 [Narrator]	
5. Cocooned in the high-tech environment of the control room, the observing programme is	Astronomers in the control room during observations
underway.	
Although the observation is running smoothly, it still requires the full attention of our team. The telescope and weather conditions are monitored	
continuously.	Close up views of computer display
[Tinney] Image quality is looking pretty good across the	Close up viewe of computer display
whole field.	Astronomers discussing initial image quality
[Narrator]	
The team is using a very clever technique called methane imaging to detect brown dwarfs - objects too small and too cold to fuse hydrogen into their centres and which, therefore, are can be called failed stars. What will the data reveal?	
[Tinney] There's nice round images everywhere, which is what we like to see.	

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 03:39 [Dr J.] 6. The first half of the night is a success, and the team has already collected a lot of data. So, this is a good moment to shift down a gear. While Dieter and his companions stop over for their midnight lunch, the telescope doesn't sit idle though. Their observations continue, being monitored by the telescope instrument operator. 	Dr. J in virtual studio Background images: Team during midnight lunch
O3:57 [Narrator] 7. As the observations progress it is vital that the support astronomer and the visiting astronomers are in constant dialogue: Is this the data quality that we expected to see? Do we continue with this target or do we proceed with the next one? Do we change the instrument set-up or do we keep it? With Dieter's expert knowledge of the VLT and its instruments, the visiting astronomers can evaluate and decide their observing strategy in real-time!	Astronomers in control room, evaluating obtained images
Narrator Narrator	Platform at dawn Astronomers in the control room Handover of the night report Dieter and the astronomers driving downhill toward the rising sun
04:58 [Dr J.] 9. For the visiting astronomers this is the end of their observing run, so for them it's time to say goodbye! Or rather, see you next time But for Dieter the day isn't quite over	Dr. J in virtual studio Background images: Driving away from the observatory Astronomers say farewell
05:08 [Narrator] 10. As usual, after an observing run at the VLT, Dieter seeks some relaxation in the morning before going to bed. The swimming pool of the Residencia was built to humidify the extremely dry desert air, but can certainly be used for a quick swim.	Dieter in the swimming pool
O5:27 [Dr J.] 11. It's an amazing place, isn't it? But for Dieter, it's all in a day's work. Tonight he will sleep well, safe in the knowledge that the VLT has once again delivered first class data to its users. This is Dr J signing off for the ESOcast. Join me again next time for another cosmic adventure.	Dr. J in virtual studio Background images: Long distance shot of Dieter in the pool and tropical garden. VLT at Paranal

05:46 [Outro]	ESOcast is produced by ESO, the European Southern Observatory.
	ESO, the European Southern Observatory, is the pre-eminent intergovernmental science and technology organisation in astronomy designing, constructing and operating the world's most advanced ground-based telescopes.

06:00 END