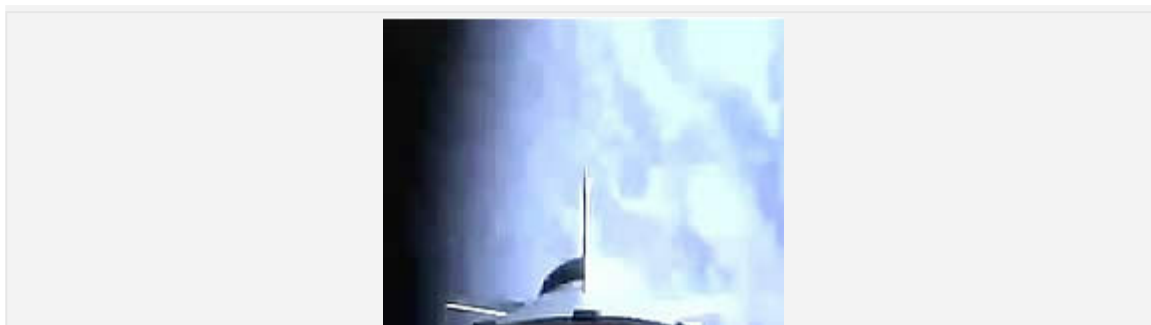


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**News-Archiv Stuttgart**

**SHEFEX flight: Webcast replay**

27 October 2005



SHEFEX Live Webcast: The backward view of the on-board camera shows the earth as seen from a height of approximately 250 Kilometers. Video Copyright © 2005 DLR.

The flight of SHEFEX (Sharp Edge Flight Experiment), an experiment prepared by the German Aerospace Center (DLR), was broadcasted live on the web on Thursday, 27 October 2005. Video streams of the launch site, the Andøya Rocket Range in Norway, as well as videofeed of the on board-cameras were available by Webcast. A replay is available here: [RealMedia-Stream](#)

Beginning early morning first live pictures from the control room were transmitted. An outdoor camera showed the SHEFEX launch from the launch pad at 15:45 CEST. Shortly after launch the backward view of an on-board camera monitored the separation of the stage. At a height of approximately 250 Kilometers the on-board camera system showed the horizon of the earth and the re-entry phase.

The aim of SHEFEX is to test new thermal protection systems concepts for re-entry vehicles, to demonstrate possible cost reduction in the manufacturing process and the maintenance of TPS (Thermal Protection System) as well as to validate the sharp edge design for an advanced aerothermodynamic concept.

The launch system consisted of a Brazilian VS-30 1st stage and a HAWK rocket as 2nd stage. After launch SHEFEX reached approximately 250 Kilometers above the North Sea and re-entered at Mach 7, seven times the speed of sound. At the tip temperatures of 1.800 degrees Celsius were generated. These temperatures are typical for re-entry vehicles. After activating of the drogue system, SHEFEX splashed down approx. 190 Kilometers downrange of the launch site and will be recovered for data analysis. Most important data was transmitted to the ground station during flight.

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