

Oliu-1. Armando

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Preliminary -STS-107 In-flight Debris Impact

**Preliminary**

01-17-2003, 16:00 EDT

[http://sn-isag.jsc.nasa.gov/shuttleweb/mission\\_support/sts-107/launch\\_video/107launchvideo.shtml](http://sn-isag.jsc.nasa.gov/shuttleweb/mission_support/sts-107/launch_video/107launchvideo.shtml)

<http://photo4.msfc.nasa.gov/STS/sts107/#L2>

Above are links to views from the video. These are low resolution views and the debris and strike may be difficult to discern.

A clip produced from film camera E212 is currently being produced by KSC and will be transferred to JSC for display on the above link.

The debris item seems to originate from the area of the -Y ET Bipod Attach Point about 80-84 seconds into flight. This debris subsequently impacts the orbiter left wing, in the area of transition from Chine to Main Wing, creating a shower of smaller particles. Impact appears to be totally on the lower surface, since no particles are seen to traverse over the upper surface of the wing. However, more analysis is required to determine details on impact location. More film analysis will occur over the weekend as films become available.

A transport analysis has been requested from Boeing Integration to determine trajectories, velocities, angles and energies associated with this debris impact.

**More information to follow.**

Bob Page

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