Campaign information Maxus 6 (2004)

GENERAL INFORMATION
Launch site: Esrange Space Center
Launch window: 
Launch date: 22 Nov 2004 at 08:35 (UT)
Customer: The Maxus program is financed by ESA and exclusively carry ESA experiments.
Purpose: The scientific objective is to perform experiments during 12-13 minutes of microgravity (10^-4 g) using a single stage sounding rocket motor.
Media information: Press releases, photos and/or videos are found here.

PARTICIPATING ORGANISATIONS
Funding agency: ESA
Principal investigator: Prof. Frohberg, ESA
Launch contractor: Astrium ST and SSC
Research organizations: Uo Leuven, Access Aachen, Uo Geissen, Uo Bremen, Uo Freiburg, LPMDI Paris, Uo Bonn
Contact persons: Mr. G. Florin, Project Manager, SSC Space Systems
Mr. M. Viertotak, SSC Esrange, Project manager
Mr. B. Franke, Project manager, Astrium ST
Mr. A. Schütte, Assistant Project Manager Astrium ST
Mr. W. Herfs, Project manager, ESA

TECHNICAL INFORMATION
Launcher: Maxus tower
Rocket motor: CASTOR 4B (ATK Thiokol Corporation, USA), see Rocket motors
Motor type: Guided singel stage
Motor length: 11 m
Motor weight: 11,6 ton (solid propellant 9,9 ton)
Burning time: 62 sec
Apogee: 706 km
Microgravity: 12 minutes
Rocket systems: SSC has designed and constructed the motor adapter (INA), the motor telemetry unit (TTU).
Saab Ericsson Soace has developed the guidance and navigation control module
Saab Ericsson Space has developed the guidance and navigation control module (GCS).

**Experiment modules:** SSC one module and Astrium ST four modules.

**Payload service systems:** Kayser-Threde is responsible for the payload service system.

**Payload length:** 6.5 m  
**Payload weight:** 800 Kg

### EXPERIMENT MODULES

<table>
<thead>
<tr>
<th>Module</th>
<th>Experiment</th>
<th>Developed by</th>
<th>Investigator</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEM 01-1M</td>
<td>Unconstrained Eutectic Solidification of Ternary. Alloys</td>
<td>Astrium ST</td>
<td>Prof. Froyen, University of Leuven, Belgien</td>
</tr>
<tr>
<td>TEM 06-27M</td>
<td>Dynamics of Suspended Particles in Periodic Vortex Flows.</td>
<td>Astrium ST</td>
<td>Prof. Schwabe, University of Giessen, Germany</td>
</tr>
<tr>
<td>TEM 02-5M</td>
<td>Control of Surface Tension driven Convection in Floating Zone Growth.</td>
<td>Astrium ST</td>
<td>Prof. Cröll, Dr Dold, University of Freiburg, Germany</td>
</tr>
<tr>
<td>FOAM-2</td>
<td>Physics of Foams. <a href="https://example.com">Read more here.</a></td>
<td>SSC</td>
<td>Prof. Bengt Kronberg, Ytkemiska Institutet, Stockholm, Dr Adler, Universitetet in Marne-la-Vallée, Dr Langevin, Paris-Sud university</td>
</tr>
<tr>
<td>TEM 06-21M</td>
<td>Signal Transduction during Graviresponse.</td>
<td>Astrium ST</td>
<td>Prof. Schnabl, University of Bonn</td>
</tr>
</tbody>
</table>