AMIE / SMART-1
Advanced Moon micro-Imager Experiment

2-4 September 2006
Moon Impact ESA, Darmstadt

20’000 Photos from the Moon!

Dr Jean-Luc Josset and AMIE Team
SPACE-X, Space Exploration Institute
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AMIE FM / SMART-1
AMIE LaserLink

The feasibility of using a laser beam for communicating with a distant spacecraft will be tested by Laser Link from Tenerife to SMART-1.
AMIE / SMART-1 on May 21\textsuperscript{st}, 2004 at \(~70'000\) km of the Earth
First European Far Side Image of The Moon by AMIE/SMART-1

12 Nov. 2004

North Pole
Performance better than expected
Many more acquired data than foreseen

- Apolune reduced from 10’000 to 3’000 Km -> North Pole becomes closer
  increased number of images
  increased number of commands

- Upgrade from 4 to 100 images per orbit!

- More than 20’000 Pictures

- Several different Observation Modes performed
  - Nadir Pointing --> Mapping survey
  - Spot pointing --> Photometric Data, Physical properties (25 targets)
  - Push Broom --> « Color » information for mineralogy

- Long duration on orbit
  --> Poles survey in all the illumination conditions
Glushko
77.6° W
8.4° N
43 km Diam.
Reiner $\gamma$

15 Km
Push Broom Mode
AMIE First results Orbit 1438

AMIE colour image

Clementine
Spot Pointing Observation

Observation Zone

25 targets acquired!

Physical Properties
Preparing the future for Moon North or South Pole Exploration

Drilling Ice Deposit for Earth - Moon History
Advanced Moon micro-Imager Experiment (AMIE) Team

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