

Recovering From A Reset

September 1 2005

On sol 560 (Aug. 21, 2005), Opportunity retracted the Moessbauer spectrometer from a rock target called "Lemon Rind" that had been brushed earlier with the rock abrasion tool.

The rover then used the grinding bit of the abrasion tool to reveal a patch of Lemon Rind's interior and used the microscopic imager to inspect the abraded area. On sol 561, Opportunity stowed its robotic arm and backed up 85 centimeters (2.8 feet) for a view of the target. The rover drove about 7 meters (23 feet) on sol 562.

Early in the morning of sol 563 (Aug. 21, 2005), Opportunity experienced a software reset. The rover shut down after the reset and woke up in what is called automode. While in automode, Opportunity responded as expected to planned communication sessions.

The sol plan for sol 563 was not executed. The plan for sol 564 was executed, returning diagnostic data for further analysis into the cause of the reset and returning Opportunity to master sequence control.

The plan for sol 565 included observations with the navigation camera and panoramic camera, but not with the miniature thermal emission spectrometer. The observations were completed successfully.

Engineers believe Opportunity is in good health, although the team will refrain from using the miniature thermal emission spectrometer pending further analysis of the software reset.

Opportunity's total odometry as of sol 565 (Aug. 26, 2005) is 5,737 meters (3.56 miles).

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