

**R O S E T T A**

**RPC-MAG Studies on  
S/C-Disturbances:**

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**Impact of Orbit Correction Maneuvers (OCM)  
on Magnetic Field Data**

**Mission Phase: PRE-COMET-PHASE**

**Time: 2004 - March 2014**

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## 1 Orbital Correction Maneuver OCM

The Rosetta Magnetometer RPCMAG is very sensitive and therefore frail to magnetic field disturbances caused by the spacecraft itself. One of the more noticeable disturbances are the Orbital Correction Maneuvers (OCMs) where the spacecraft changes its attitude. Signatures related to the OCM can be identified within the telemetry data log under the command *ZAC20116*. Within the MAG-data, the disturbance detectability is depending on the MAG-sampling rate and the surrounding magnetic field variations.

For the *Pre Comet Phase* two different castings of the OCM command have been found within telemetry data, namely on the dates 2004-05-10T21:27:04 and 2008-09-04T07:25:49. Unfortunately, on these dates, the magnetometer was offline, so no data is available.