

MCS activities (since start of PSP activities)

This does not cover activities prior to the start of the PSP.

There are a number of short periods (< 2 hours) where MCS was stowed for other S/C activities. These are not explicitly called out. They may have slight perturbations in calibration quality for up to 2 hours afterwards (due to thermal perturbations).

Many of the activities are correctly indicated in the geometry and are only included to help find/avoid the related data.

06/09/24 MCS powers on

Note that the instrument took ~ 48 hours to thermally stabilize, this may impact the instrument calibration. Other changes to the thermal control generally created smaller perturbations.

S/C pointing may not have been as accurate as later due to older ephemeris on board. This does not affect the quality of the geometry, but may affect the utility of the observations.

06/09/25 First thermal update: use a narrow control band.

06/09/26 First seasonal update:

Seasonal updates occurred from 06/09/24 through 07/01/05, but are not explicitly called out. Due to the seasons covered, apart from the first update the only seasonal update was to move the location of the solar target calibrations (this sometimes impacted the timing or coverage of the buckshot regions).

06/09/28 Second thermal update (change to OBA control temperature and additional power to the blackbody): Possible impact to calibration over the next 24 hours.

06/10/02 Off nadir day: During this day, the other instruments commanded very frequent rolls, resulting in a significant number of gaps in coverage.

06/10/03 Update to pointing to improve limb tracking. This takes into account the error in the instrument pointing and the change in MRO orbit.

06/10/09 Start of solar conjunction

No seasonal updates were performed during this time (next seasonal update after 06/10/05 was 06/11/03). Also, the S/C pointing drifted more than usual (the MCS geometry is correct). Also, several significant data gaps occurred during conjunction due to loss of data during playback.