

Background file for Cassini/MIMI
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A description of the columns is in the file's first line. Short descriptions:

PARAMETER: Parameter value described ("Background" for all entries)
TYPE: type of data ("ACC" for rate/accumulator channels, "PHA" for PHA channels)
INSTRUMENT: Always "LEMMS"
CHANNEL: Channel name, can be e.g. C, A, E, P, H, B, BE, Z, G, D for "ACC", A, E, F1 for "PHA"
CHANNEL NUMBER: Number of channel e.g "0" for channel C0. Not all channels have numbers, e.g. BE
START YEAR, START DOY, STOP YEAR, STOP DOY: Years & Day of Years for each background entry
UNITS: Units of background values (always counts/sec)
LOW, HIGH: Not relevant entries for backgrounds, always empty
STANDARD DEVIATION: Relative standard deviation of the background
MEAN: background value in counts/sec

No backgrounds are given for the singles channels ES, FS, AS, BS, D1, D2, D3, D41, ES2FS

The way these are used:

A background value for a channel is assumed to be constant for all the days between its START YEAR/DOY and STOP YEAR/DOY. Since it is given as count-rate, it should be subtracted before conversion to flux. For the PHAs, subtraction should take place after their rates have been first normalized to the singles rates of ES, FS, AS.

Backgrounds have been calculated for times after DOY 177/2004.