

GRS	Gamma Ray Spectrometer (which is onboard Mars Odyssey)
HiRISE	High Resolution Imaging Science Experiment (which is onboard MRO)
HRSC	High-Resolution Stereo Camera (which is on-board Mars Express)
INC	Incidence angle
I/F	measured radiance divided by solar irradiance
L detector	Long-wavelength detector for CRISM
LUT	Lookup table
MARSIS	Mars Advanced Radar for Subsurface and Ionosphere Sounding (which is onboard Mars Express)
MGS	Mars Global Surveyor
MGS-TES ²⁶	Mars Global Surveyor—Thermal Emission Spectrometer
MOC	Mars Orbiter Camera (which was onboard MGS)
MOLA	Mars Orbiter Laser Altimeter (which was onboard Mars Global Surveyor)
MRDR	Mapped Reduced Data Record
MRO	Mars Reconnaissance Orbiter
MSL	Mars Science Laboratory
MSP	Multispectral
OMEGA	Observatoire pour la Minéralogie, l'Eau, les Glaces et l'Activité (which is on-board Mars Express)
PHI	Azimuthal angle
PDS	Planetary Data System
PFS	Planetary Fourier Spectrometer (which is onboard Mars Express)
S detector	Short-wavelength detector for CRISM
SHARAD	Shallow Radar sounder (which is onboard MRO)
THEMIS	Thermal Emission Imaging System (which was onboard Mars Odyssey)
TRDR	Targeted Reduced Data Record
USGS	U.S. Geological Survey
VL	Viking Lander

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²⁶This acronym is used instead of "TES" in order to distinguish this instrument from instruments of the same acronym on other spacecraft (i.e., the Tropospheric Emission Spectrometer, on-board the Aura satellite, orbiting the Earth).