# NASA Mission To Planet Earth Products for Military Land Monitoring and Management. (A02-lozar101432-Oral)

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## Abstract:

Land managers have a need for products derived from remote sensing instruments on satellites. In 1999 NASA launched the first of its Mission To Planet Earth (MTPE) Satellites, Terra. Terra is the first satellite whose instruments were designed to complement each other in producing digital products that corrected for atmospheric clarity, surface reflectance, seasonal changes, sun angle, and cloudiness to mention only a few concerns. Though its purpose is to study climatic change issues, many of these products have potential use to military lands managers. The Strategic Environmental Research and Development Program (SERDP) Ecosystem Management Project (SEMP) sponsored a preliminary investigation to access and manipulate several example products generated from the MODIS instrument for storage in the SEMP data repository. The MODIS products include land cover, vegetation indices, leaf area index, net photosynthesis, fraction-of-photosynthetically active radiation, and vegetation cover conversion. This paper describes those products, how they were processed, what they look like, and how they can be used for Military Land Monitoring and Management.

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## Presentation Information:

Presentation Date: Tuesday, November 12, 2002
Presentation Time: 9:15 am

## Keywords:

MODIS, Remote Sensing, Land Monitoring, Ecosystem Health