

### 3.0 Contractor Responsibilities

1. The Team Leader will review both his/her investigation objectives and those of the Team Members, performance requirements, and required science measurements in relation to the performance characteristics of the MODIS instruments, and will update/revise these factors as appropriate. The Team Leader is responsible for the development and maintenance of algorithms and source code to generate Standard Data Products. The following essential products, as defined in the EOS Program Level 1 Requirements, are mandatory:

- MODIS-N*
- a. MODIS-N shall provide imagery in 36 discrete bands between 0.4-14.54  $\mu\text{m}$  selected for diagnostic significance in earth science, with spatial resolution from 250 m to 1 km at nadir, S/N>500 @ 1 km resolution, and absolute irradiance accuracy 5% at the instrument.
- MODIS-N<sup>2</sup>*
- b. MODIS-N shall provide specific global survey data products which include the following:
- .1 Surface temperature with 1 km resolution, day and night, with absolute accuracy of 0.2 K for oceans and 1 K for land.
  - .2 Ocean color, defined as:
    - ocean-leaving spectral radiance within 5% from 415-653 nm, based on adequate atmospheric correction from IR sensor channels
    - chlorophyll fluorescence within 50% @ 0.5  $\text{mg m}^{-3}$  of chlorophyll a
    - concentration of chlorophyll a within 35%.
  - .3 Vegetation indices, types, and productivity.
  - .4 Cloudcover with 250 m resolution, day and night.
  - .5 Cloud radiative properties in the visible and near IR.
  - .6 Aerosol properties.
  - .7 Fire occurrence, size, and temperature.