

07.01.01. MODIS NDVI 13 Sep 02

1.0 File Format

ESRI ArcView grid theme composed of several files in a data structure composed of multiple directories.

2.0 Theme Metadata

MODIS image metadata provided by NASA for the original image.

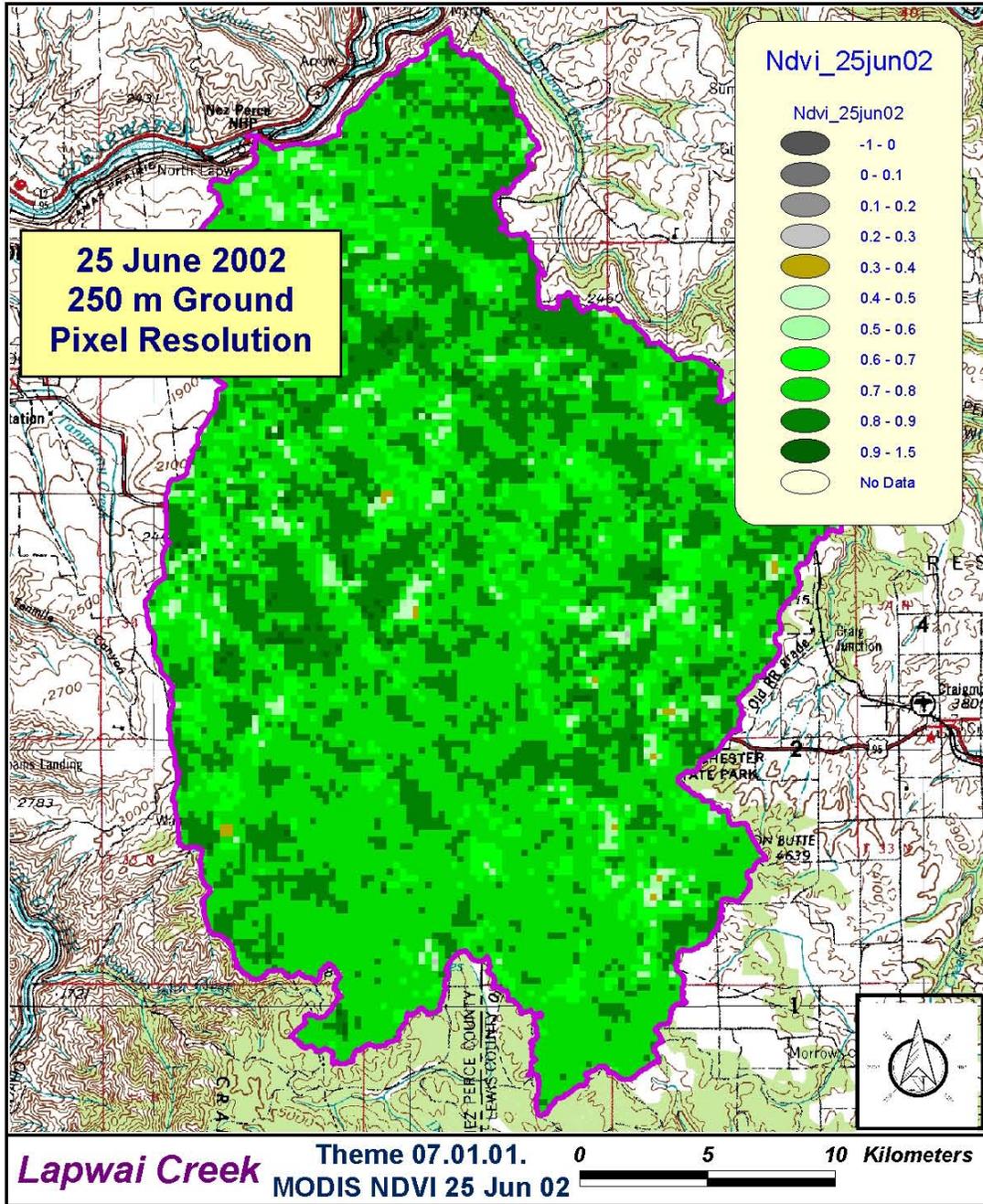
3.0 Description

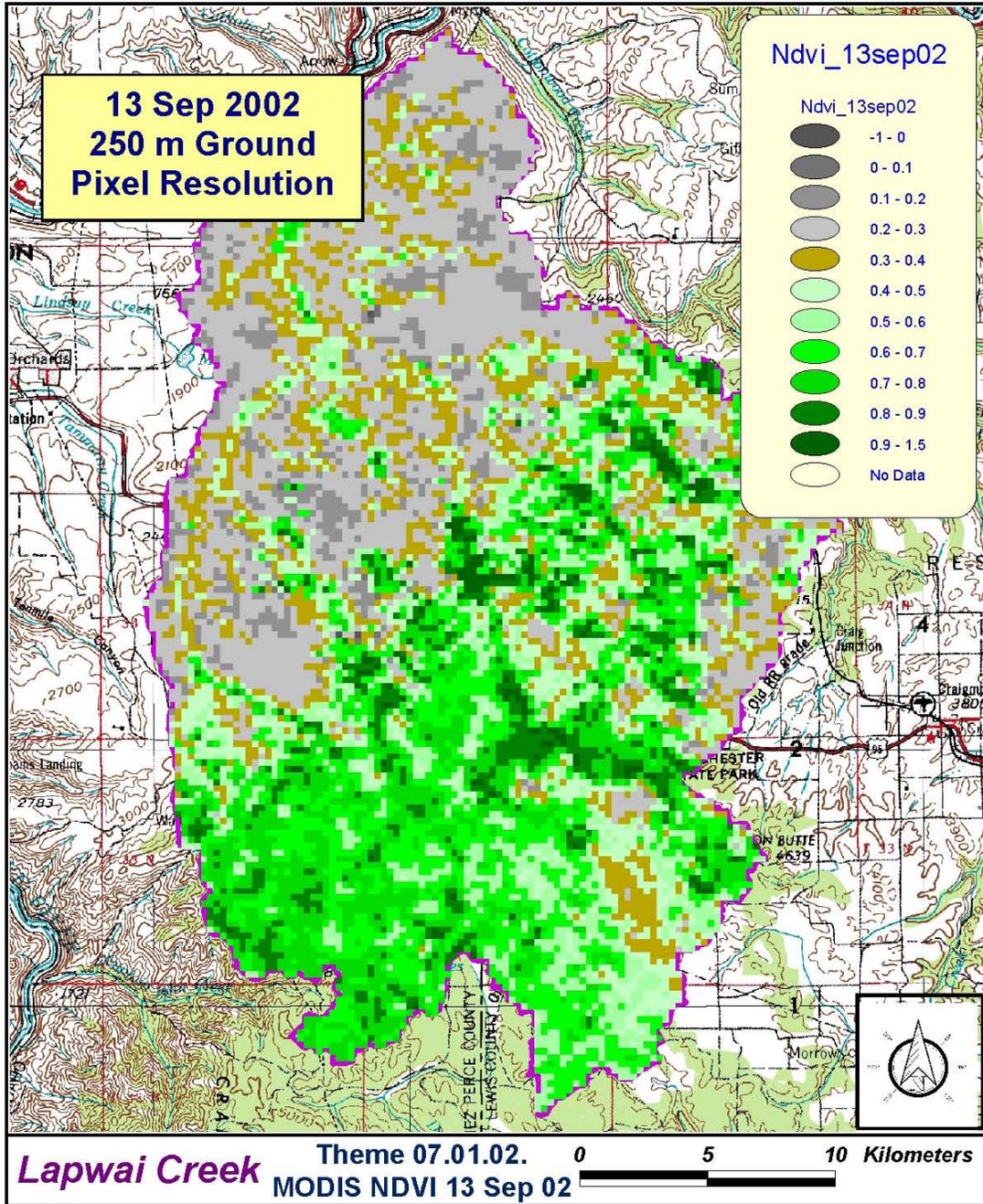
The Moderate Resolution Imaging Spectroradiometer (MODIS) is carried on board the NASA Terra satellite. MODIS provides continuous global coverage every one to two days, and collects data from 36 spectral bands. Two bands (1-2) have a resolution of 250 meters. Five bands (3-7) have a resolution of 500 meters. The remaining bands (8-36) have a resolution of 1000 meters. The swath width for MODIS is 2,330 kilometers so the entire Columbia River Basin is often covered in one image.

NASA derives many products from the original MODIS imagery that can be useful for characterizing seasonal changes in large basins. One product used for global vegetation monitoring is the Normalized Vegetation Difference Index (NDVI). The NDVI image emphasizes the effect of near-infrared light reflectance from healthy vegetation as compared to non-vegetated surfaces. NDVI values range from -1 to +1. High values indicate significant biomass. Low values indicate bare soil, rock, water or senescent vegetation.

4.0 Projection

Original imagery reprojected Universal Transverse Mercator Zone 11 North, North American Datum of 1927.





**Satellite and Aerial Imagery
Demonstration Project**

