LANDSAT THEMATIC MAPPER IMAGE MOSAIC OF COLORADO

Christopher J. Cole,1 Suzanne M. Noble,1 Steven L. Blauer,2 Beverly A. Friesen,2 and Mark A. Bauer1

SUMMARY

This report is a Landsat Thematic Mapper composite mosaic of Colorado. The mosaic was produced from Landsat scenes collected from August 25, 2006, to September 8, 2008. The Landsat scenes are 30 meters spatial resolution images that were acquired on a two-week interval (June 18 and July 28, 2006, and August 25 and September 19, 2007, and August 25 and September 8, 2008). The sky was clear on the days the scenes were acquired. The mosaic was produced by an automated registration and mosaicking algorithm produced by the USGS Rocky Mountain Geographic Science Center (RMGSC). The mosaic was produced as a seamless, cloud-minimized remotely-sensed image spanning the state of Colorado.

The Landsat scenes were selected from the U.S. Geological Survey (USGS) Earth Resources Observation and Science Center (EROS) Data Center (http://glovis.usgs.gov/). The scenes were flown over the State of Colorado on two dates: August 25 and September 8, 2007, and August 25 and September 8, 2008. The collection date of the Landsat scenes ranged from August 25, 2006, to September 8, 2008. The scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were collected from the Landsat Thematic Mapper (TM) sensor. The TM sensor has six spectral bands: blue (band 1), green (band 2), red (band 3), near-infrared (band 4), shortwave infrared (SWIR) (band 5), and SWIR (band 7). The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.

The Landsat scenes were normalized to the Landsat Thematic Mapper base imagery in the Colorado mosaic via linear regression. The scenes were normalized to the base data to produce a seamless, cloud-minimized remotely-sensed image spanning the State of Colorado.