

Title

DIGITAL IMAGE ANALYSIS

Model Forest

Western Newfoundland Model Forest

From

December 1993

To

February 1995

Keywords

Digital Elevation Model, Spot, HI-VIEW

Objective

To produce a digital elevation model (DEM) of the Western Newfoundland Model Forest using SPOT multi-spectral satellite image data.

Description

A digital elevation model (DEM) was generated for the Western Newfoundland Model Forest using SPOT multi-spectral stereo image pairs. SPOT satellite data has three spectral bands (red, green, and near infrared) with a spatial resolution of 20 metres. The SPOT stereo pairs were processed using HI-VIEW, a digital elevation modeling software package developed by Horler Inc.. HI-VIEW produces elevation data at 1 meter intervals with a +/- 10 meter accuracy (acceptable at a scale of 1:50 000). The final product is a digital raster elevation data set with 40 meter resolution and 1 meter elevation intervals.

Reports and Products

Digital Elevation Modeling with Stereo SPOT Data. Drieman, J. 1995. Drieman Curtis Inc., Corner Brook, Newfoundland. WNMF: 6-101-001, 55p.