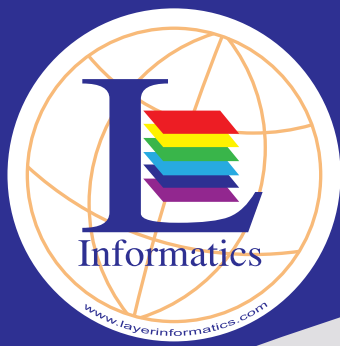




DIGITAL TERRAIN MODEL

A Case Study



CHALLENGES:

- The terrain was very undulating with lot of cliffs.
- The area was also largely covered by very dense trees & collecting the ground information under them was really testing our skill set.

INTRODUCTION:

DTM data collection for 1m contours.

KEY ASPECTS:

The objective of this project was to capture all DTM features with respect to photo scale of 1:7000. The data compiled would be used for

- Terrain & surface analysis
- Modeling water flow
- Creation of Relief maps
- Rectification of aerial images

METHODOLOGY:

➤ Preprocessing

An assessment of the supplied inputs is done to ensure all images/aerotriangulation results are available to initiate the project. A project is Setup with the supplied exterior orientation parameters and the camera details and is validated against the Gcp's.

➤ DTM Capture

Compilation of all DTM features like Roads, Breaklines, Streams, River, Drainage Lines, and Spot Heights for 1m contour accuracy.

➤ Contours

The compiled DTM data is used to auto generate the contours at 1m interval. The major contours were labeled accordingly.

➤ QC/QA

A QC checklist was prepared to assess the DTM & the Contour quality. A random QA was performed to make sure the data was within the acceptance criteria.

TECHNOLOGY:

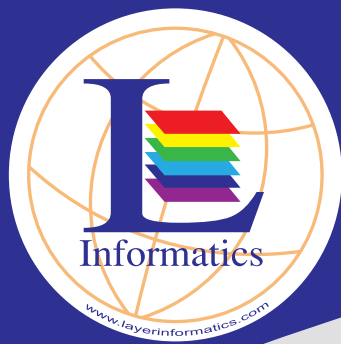
- Leica Photogrammetry Suite
- Microstation V8
- AutoCAD Map 2002
- Terra Model

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DIGITAL TERRAIN MODEL

Page 2

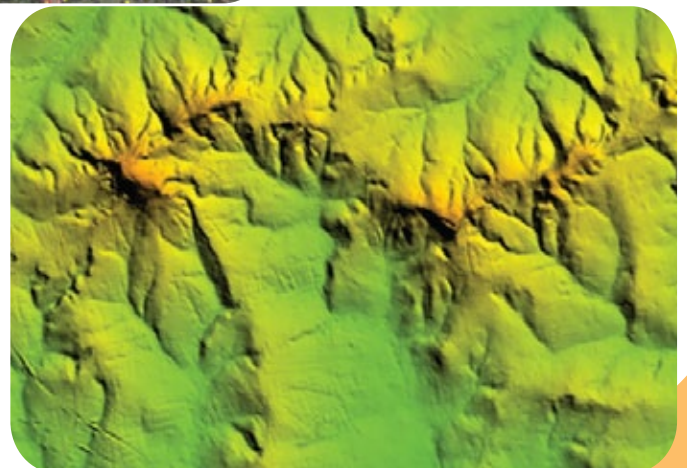
TESTIMONIALS:

I wanted to express our continued appreciation for the great service you and your staff provide. It is a pleasure working with Layer Informatics.

APPLICATION:

- Modeling water flow or mass movement
- Creation of relief maps
- Rendering of 3D visualizations
- 3D flight planning
- Creation of physical models
- Rectification of aerial photography or satellite imagery
- Terrain analyses
- Line-of-sight analysis
- Base mapping
- Flight simulation
- Precision farming and forestry
- Surface analysis

SCREEN SHOTS:



UK Office:

Edinburgh EH2 4AT,
Scotland, UK.

US Office:

Scranton, PA 18505

Middle East Office:

Doha, Qatar.



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