Accuracy Evaluation and Quality Control of Digital Orthoimage-sheets

- Digital orthoimages
- Geometric Accuracy and Quality
- Ground sample distances – 0.36 m.
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

Orthoimage generation process

- Digital block aerial triangulation
- Digital terrain extraction and editing
- Mosaicking
- Tilling into orthomap - sheets

Digital block aerial triangulation
- Accuracy
- Tie points
- Ground Control Points
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

Results
- Planimetric accuracy – 0.18 m.
- Linear accuracy – 0.78 m.
- M 1:2 500

Digital Terrain Model
- Cells size – 4 m.
- Editing
- Vertical accuracy
- Flat area – 0.8 m.
- Mountains – 2.0 m.
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

- Orthorectification
- Mosaicking
- Tilling into orthomap-sheets

Mosaicking
- Sim line generation and editing
- Relative control
- 1 pixel – first class orthographic image
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

Tilling into orthomap-sheets
• GeoTIFF
• RGB
• 8 Bit

Accuracy assessment
• Absolute control
• 20 – check points
• National Standard for Spatial Data Accuracy - 0.55 m.
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

Comparison assessment
- Differences – 1.5 pixels

Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

- Quality control
Accuracy Evaluation and Quality Control of Digital Orthomap-sheets

Conclusion
- Accuracy of Digital Block Aerial Triangulation – 0,79 m.
- M 1: 2 500
- Accuracy of Digital Terrain model - 0,8 – 2 m.
- Accuracy of Orthoimages - 0,55 m.

QUESTIONS?