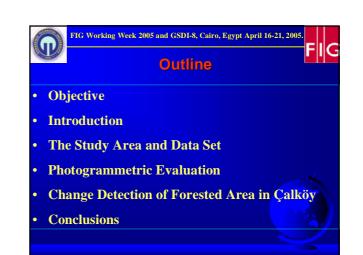


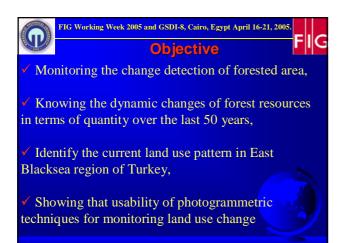
F18 Working Week 2005 and 8501-8 From Pharaohs to Geoinformatics

FIG

Monitoring Land Use Changes and Determining The Suitability of Land for Different Uses with Digital Photogrammetry

> Fevzi KARSLI Karadeniz Technical University Trabzon, Turkey





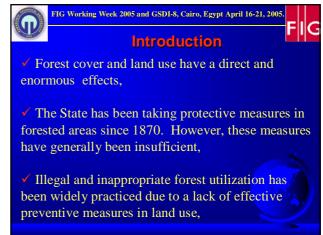
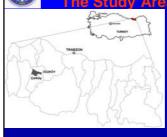


FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Introduction

Photogrammetry become still an important contribution to many disciplines such as foresty,

✓ Remotely sensed data has become the major data source in the change detection of diverse applications including forest cover changes.

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G

a and Data Set ☐ ↓
 situates in Çalköy
 district in the East Black
 Sea Region of Turkey
 ✓ has a rugged
 topography
 ✓ has 4318 of population
 ✓ 600 hectares and 1200

m average elevation

<u>Aerial photos:</u> taken in 1955, B/W images, scale of 1/35000; taken in 2002, Color infrared images, scale of 1/16000

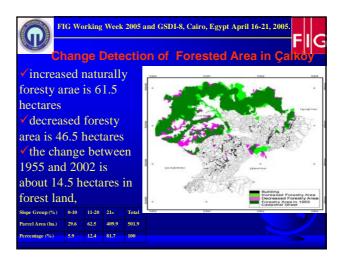


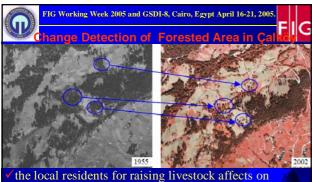
FIG Working Week 2005 and GSD1-8, Cairo, Egypt April 16-21, 2005. Photogrammetric Evaluation

- ✓ Z/I Imaging Digital Photogrammetric System,
- ✓ Microstation V.8 as CAD tool,
- ✓ Stereo photogrammetric evaluation,

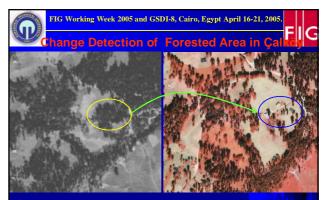
✓ Ground control point (GCP) measurement using GPS (Global Positionin System),

✓ Vector data evaluated by using ArcInfo and ArcView GIS softwares.





✓ area for a sing investock areas on the forest areas,
✓ avaliable 48 houses in outside of the forest area in 1955,
✓ 107 houses in the same area by 2002,



22 houses available in 1955 remained in the same place, 43 houses were built in different places in the forest area

FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Conclusions

✓ In the result of the study, it can be said that remotely sensed data like aerial images can be used as very handy and appropriate tools for monitoring and change detection.

✓ Local residents have cleaned small cluster forest area and have converted it to farmland and residential areas,

FIG W

FIG Working Week 2005 and GSDI-8, Cairo, Egypt April 16-21, 2005. Conclusions

✓ It is necessary to carry out forest cover monitoring and to warn local government on time on their exceed change,

✓ Developing appropriate planning and management interventions for conservation and sustainable utilization of foresty.

