

FIG

FIG WORKING WEEK 2017

Helsinki Finland

29 May - 2 June 2017

Presented at the FIG Working Week 2017,
May 29 - June 2, 2017 in Helsinki, Finland

Geomagnetic Measurements in Israel

Dr. Anna Shnaidman

Dr. Boris Shirman

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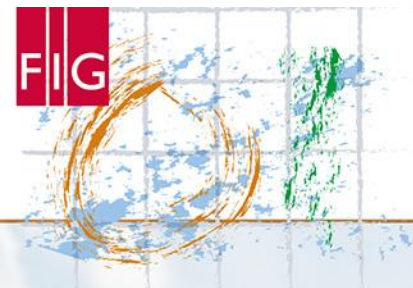


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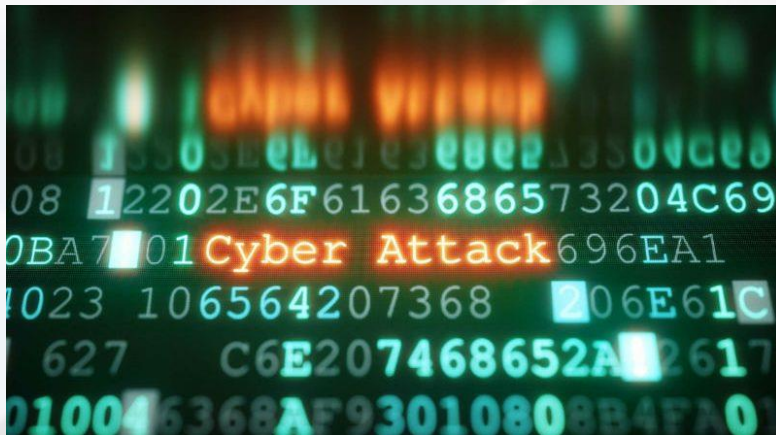
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Why Magnetic Observations?

- ❖ Scientific and Practical Uses
- ❖ Navigation & Surveying
- ❖ Earth Magnetic Field Monitoring



- ❖ Technologically Independent Measure
- ❖ Space-weather Diagnosis
- ❖ Solar- Terrestrial Interactions
Scientific Studies



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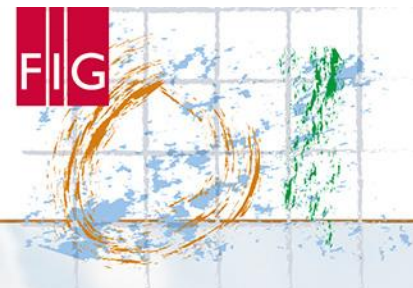


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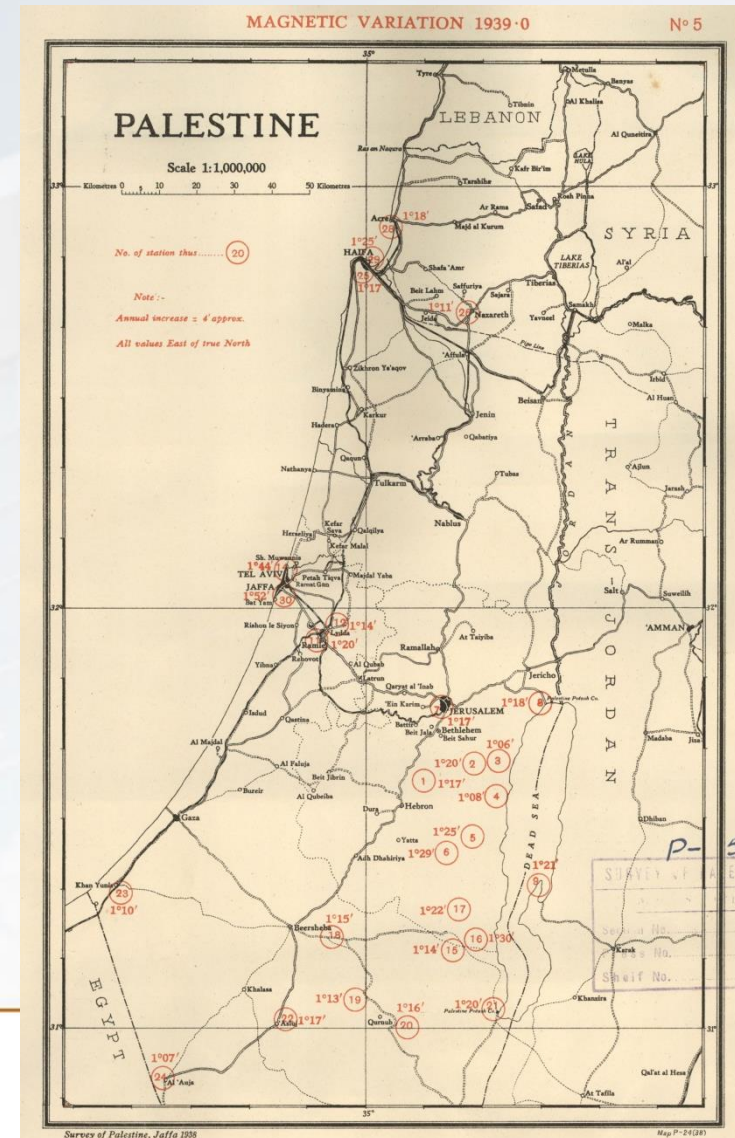
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Magnetic Observatories in Israel

- ❖ More than 200 Years of Magnetic Observations World Wide
- ❖ Over 100 Years of Magnetic Observations in Israel
- ❖ 19th Century - British Mandate 1st Magnetic Declination Measurements

- British Admiralty Declination Measurements Map



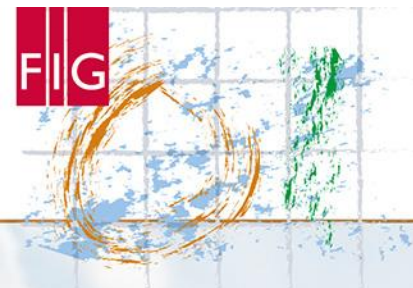


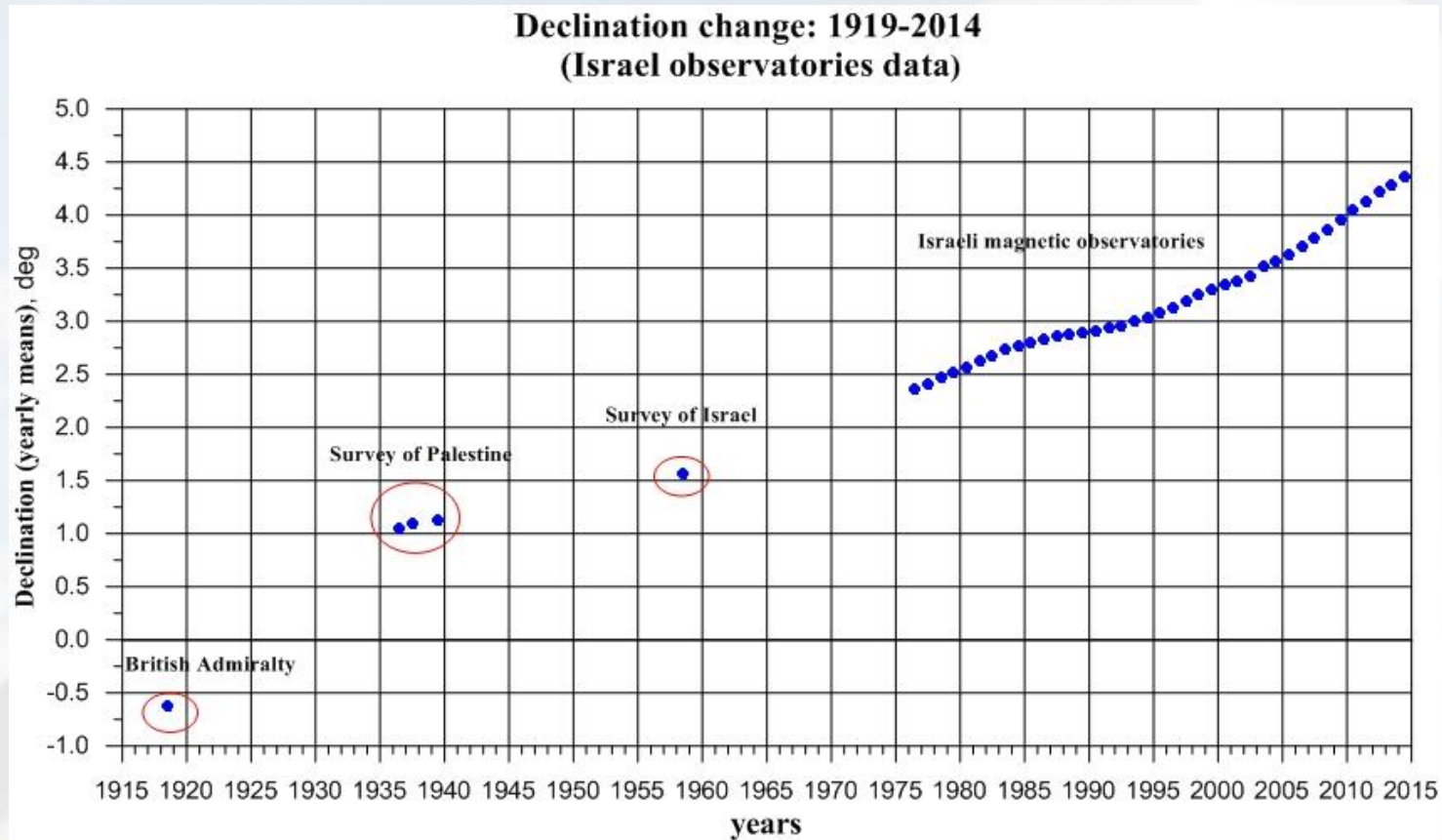
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Magnetic Observatories in Israel cont.



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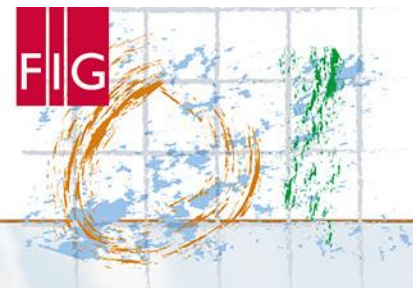


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Magnetic Observatories in Israel - Objectives

- ❖ Magnetic North Survey & Monitoring
- ❖ Geomagnetic Field Mapping
- ❖ Magnetic Data Supply
- ❖ Global Collaboration
- ❖ Research



- ❖ Customers:
 - Defence Forces
 - IAGA
 - Israel Airports Authority
 - Research Institutes etc.



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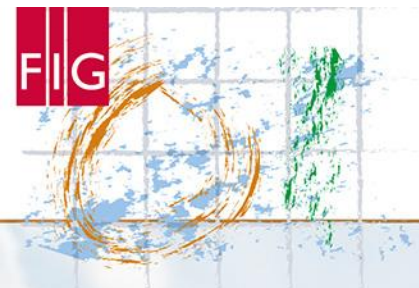


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Ongoing and Future Research Projects

❖ Estimation of Earthquake Occurrence Probability



❖ Cosmic Weather



❖ Sinkholes Detection



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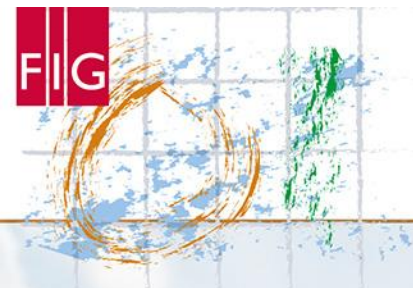


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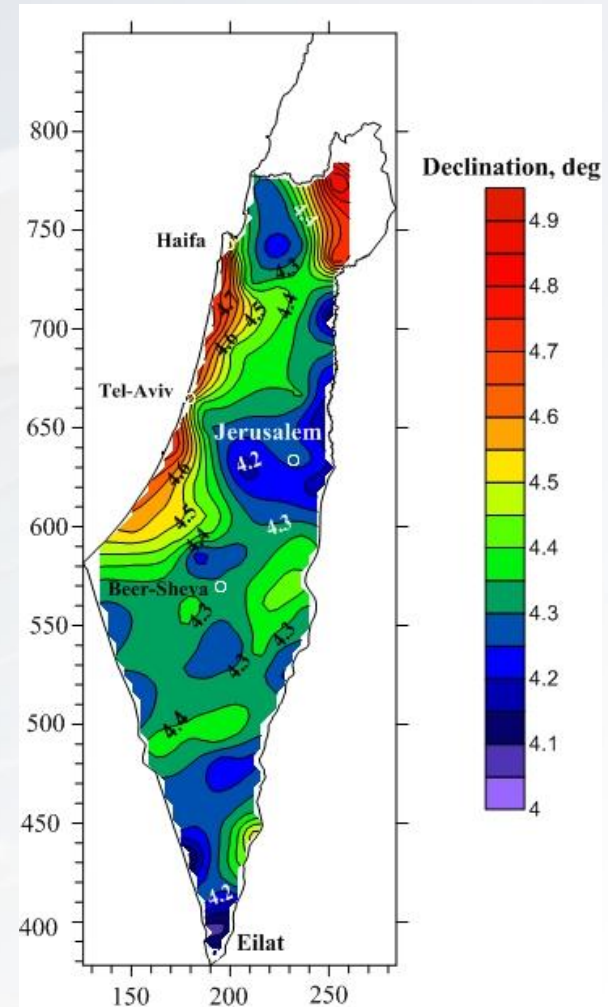
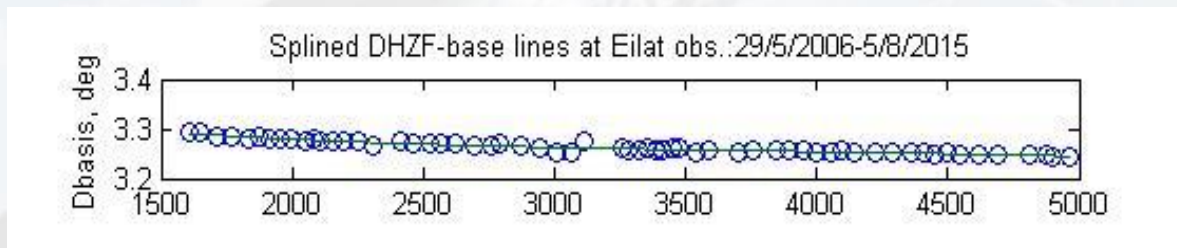
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Ongoing and Future Projects

cont.

- ❖ Declination Prediction
- ❖ Interactive Declination Model

- Real-time Data
- Countrywide Coverage



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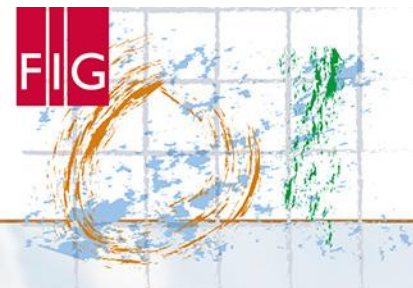


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