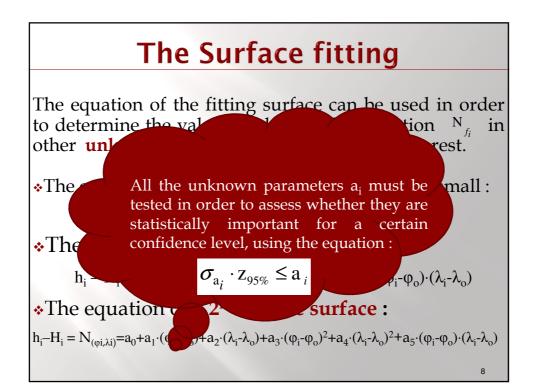
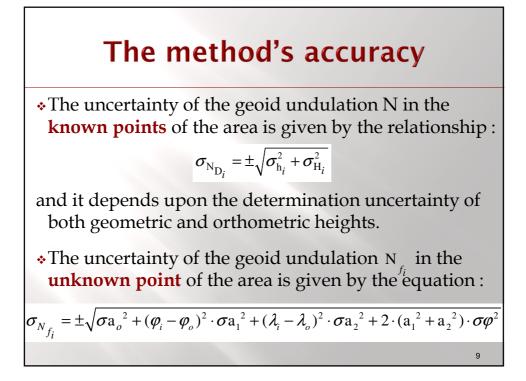


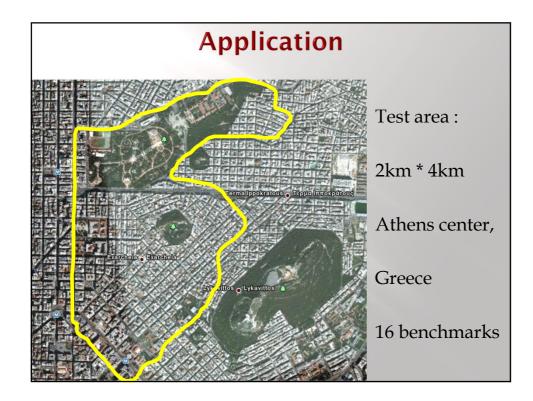


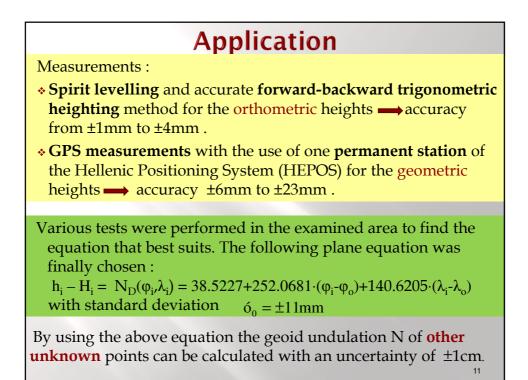
- The GPS antenna's placement on **a pole** and not on a tripod, in order to minimize the time required.
- The moving receiver's duration of stay in each point does not exceed 20 minutes. The determination accuracy cannot be improved even if the receiver stays in that point for more hours.
- The use of a station from **a permanent** station network.

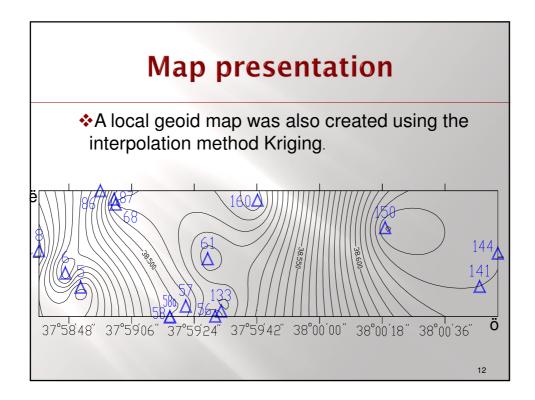
All the abovementioned **minimize the time** required in the field and make the method more **convenient** as less equipment is required.

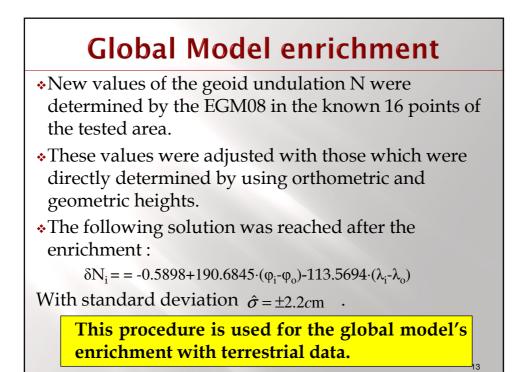












## **Concluding remarks(1)**

- \*The determination of **local geoid models** is indispensable especially in urban areas where more infrastructure works are carried out.
- The geoid undulation N can be determined directly in an urban area by an uncertainty of about ±2cm.
- **Twenty minutes** of observations are enough for the h determination with an uncertainty of ±2cm, which makes the method very fast.
- The use of permanent stations leads to fast determination of the geometric height in an urban area by using a double frequency receiver mount on a pole.

## **Concluding remarks(2)**

- \*The procedure of the fitting of a **plane surface** in a concrete area proved to be adequate and can be used for the majority of infrastructure works
- \*The **enrichment** of the EGM08 by using the available terrestrial data really improves the global model's result. The differences between the EGM08 after the enrichment and the terrestrial data are of the order of about 1.5 cm, before the enrichment the differences were about 6cm.

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