

The Law to Protect the Coastal Environment 2004



Survey of Israel

2009

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GENERAL



- In 2004 The Knesset (Israeli Parliament) legislated a law to protect the coastal environment.
- The coastal environment as noted in the law has 3 definitions:
 - The Coastal Environment
 - The Coastal area
 - The Coastline



Coastline

- The coastline is a contour line of 75 cm above the vertical orthometric datum and is the baseline for the controlling and regulating of the building and development of areas near the coast.
- The Survey of Israel has conducted all the measurements work.



Pre-Survey

- The S.O.I has made a pre-survey and the results were:
 - The coast is divided to 19 sections.
 - A pilot survey should be carried out.

Typical coast sections



Measurements' Results



1. Most of the measurements work was carried out using the RTK method.
2. In a few areas with steep cliffs, the measurements were carried out by the EDM method.
3. The heights were measured along profiles that were perpendicular to the coastline and in each profile three heights were measured: 75cm, 100cm, and 125cm.

4. The distance between the profiles in a moderate coast is 40 meters and a distance of 10 meters in a changeable relief coast.
5. The accuracy (RMS) of height measurement relating to the control points is less than 4 cm.
6. The accuracy (RMS) of horizontal measurement in relation to the control points is less than 10 cm.



The Project Products

- At the end of the project we received 4 lists of coordinates.
 - a. coordinates x,y,z of all the points.
 - b. coordinates according to the profiles.
 - c. A list of polar coordinates according to control points.
 - d. A separate list of coordinates with the points for the contour line of 0.75m.

End Product

- In the year 2005 an atlas containing maps and ortophotos with sketches of the contour line and a list of 6000 coordinates that build the line was published.
- The contour line of 75 cm became the formal statutory line which is the formal reference to all planning considered in the coastal zone.

