



Estimating of tectonic velocities in the Ionian region.

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Since the early nineties the Laboratory of Higher Geodesy and the Dionysos Satellite Observatory have been using various techniques and software in order to monitor the tectonic behaviour throughout Greece. In this paper we will focus on the Ionian region, where a permanent GPS network is installed and data is available by the National Observatory of Athens (NOA).

Various techniques and software packages have been used during the last few years to derive an as accurate as possible velocity field for the above-mentioned region. More specifically, BERNESE v4.2 and BERNESE v5.0, as well as GAMIT/GLOBK v10.35 were used applying different processing options/techniques (eg., realization of reference frame, ambiguity fixing, weekly versus daily estimates, etc.).

The results obtained are presented here, as well as a comparison of the different processing schemes.