

# **Dynamics of Tense Deformed Condition of the Earth Crust of Kazakhstan**

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1. The dynamic processes of tense deformed condition can be approximated with sufficient exactness by models of a great deal of the flat and spherical mobile deformed fronts
2. The parameters of the dynamic deformed fronts (DDF) can be determined by combination of various data traditionally named precursors. The analysis of precursors is executed similarly on the basis of modified simplex-method of optimization of linearly - nonlinear extreme problems.
3. The seismological regional and global catalogues can be considered as natural hodographs, systems DDF. They are an information basis for a solution of return problems of a set DDF.
4. The monitoring for the prognosis is considered as a complex of active measurements and methods of the analysis by revealing concrete models DDF and further constant active tracing for dynamics of development of process.
5. The process of a model creation of tense, deformed condition of the earth crust is reduced: to creation of model information base; to a research of a structure of geofields separately and in a complex; to creation of statistical models of the VAT and of statistical prognosis maps; to creation of dynamic models of the VAT and prognosis by they.
6. Base of data «Kazgeodate», representing an information basis of working out and research of various models of the earth crust development of South-Eastern Kazakhstan is created. The scheme of computer modeling of geological, geophysical data is developed.