

## Seismic fluid geochemistry and short-imminent forecasting of earthquake

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Earthquakes are disasters for human beings. Fluid geochemistry anomalies have been recognized in correspondence of earthquakes and these are related to the chemico-physical processes associated to the seismogenic processes. We plan to conduct comparative studies on fluid geochemistry anomalies in restricted high seismicity areas that have been characterized by destructive earthquakes in recent times and challenge the use of the geochemistry of fluids in earthquake forecasting, including the works in CSES-China Seismic Experimental Site, Italy, Iran, Turkey, Greece and Spain. The work investigates the fluid sources, migration, and find out the internal relations between the fluid geochemistry anomalies and seismic activities. Through the implementation of the researches, we can better understand and quantify possible signals/anomalies that the fluids can record and transfer to the surface, and use these signals/anomalies to forecast earthquakes. The work is carried out under the support of UNESCO International Geoscience Program IGCP-724. The expected results of the project will be of important scientific and practical significance for improving the efficiency of earthquake forecasting, that will allow reducing the seismic risk. The project warmly welcomes earth scientists from earthquake-threatened Countries, especially developing Countries. Only by bringing earth scientists from all over the world together and enhancing high-level cooperation, can we achieve the goal of forecasting earthquakes.