

From Normal to Strike-Slip: Stress Regime Transition in Egypt and its Implications

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------INTRODUCTION AND MAIN RESULTS

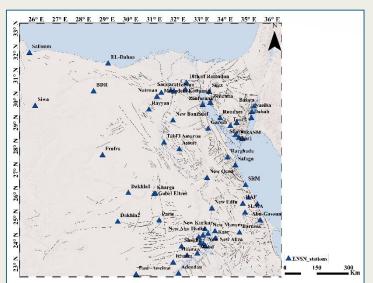
This study analyzes stress tensor inversion using focal mechanism solutions across Egypt. Homogeneous data verified by Kagan angle revealed a shift from normal stress in northern Egypt to strike-slip in the south, highlighting significant tectonic variation and suggesting further investigation into underlying causes.

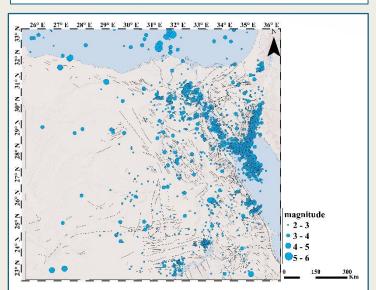
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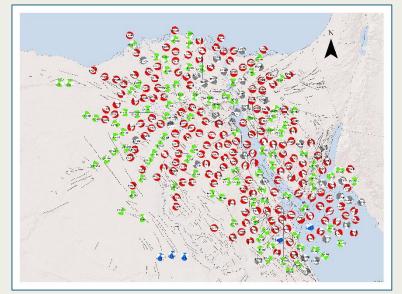
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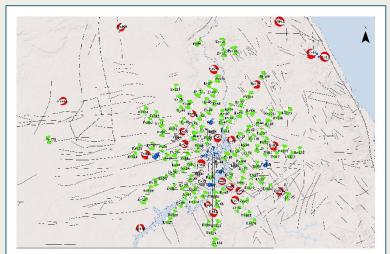
Seismicity in Egypt

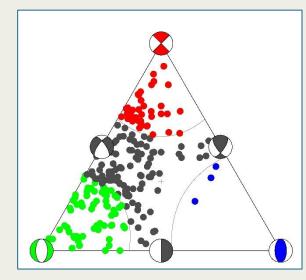


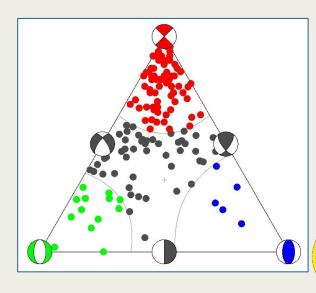


focal mechanism solutions in northern and southern Egypt











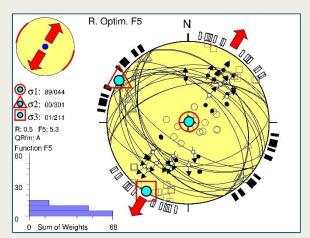


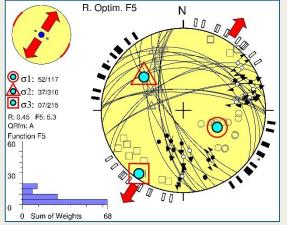
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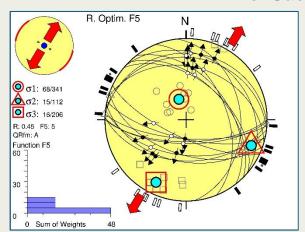
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Stress tensor in different seismic zones in northern part of Egypt

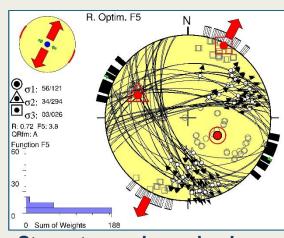




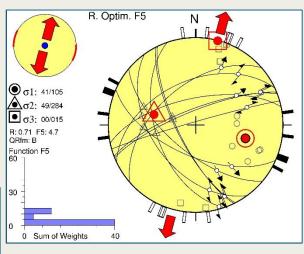
Stress tensor of 1st and 2end groups in Southern Gulf of Suez



Stress tensor inversion in Cairo Suez District zone

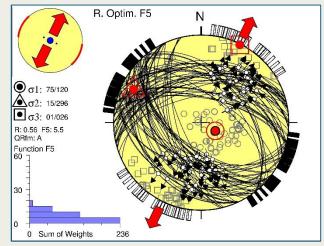


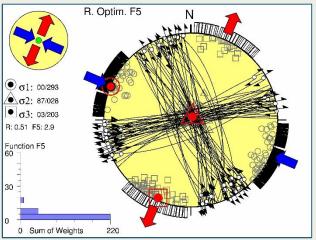
Stress tensor inversion in Dahshour zone



Stress tensor inversion in Eastern Desert

Stress tensor in northern part of Egypt





Stress tensor in southern part of Egypt

