ILP Task Force

Global Lithosphere Stress – The World Stress Map in 3D

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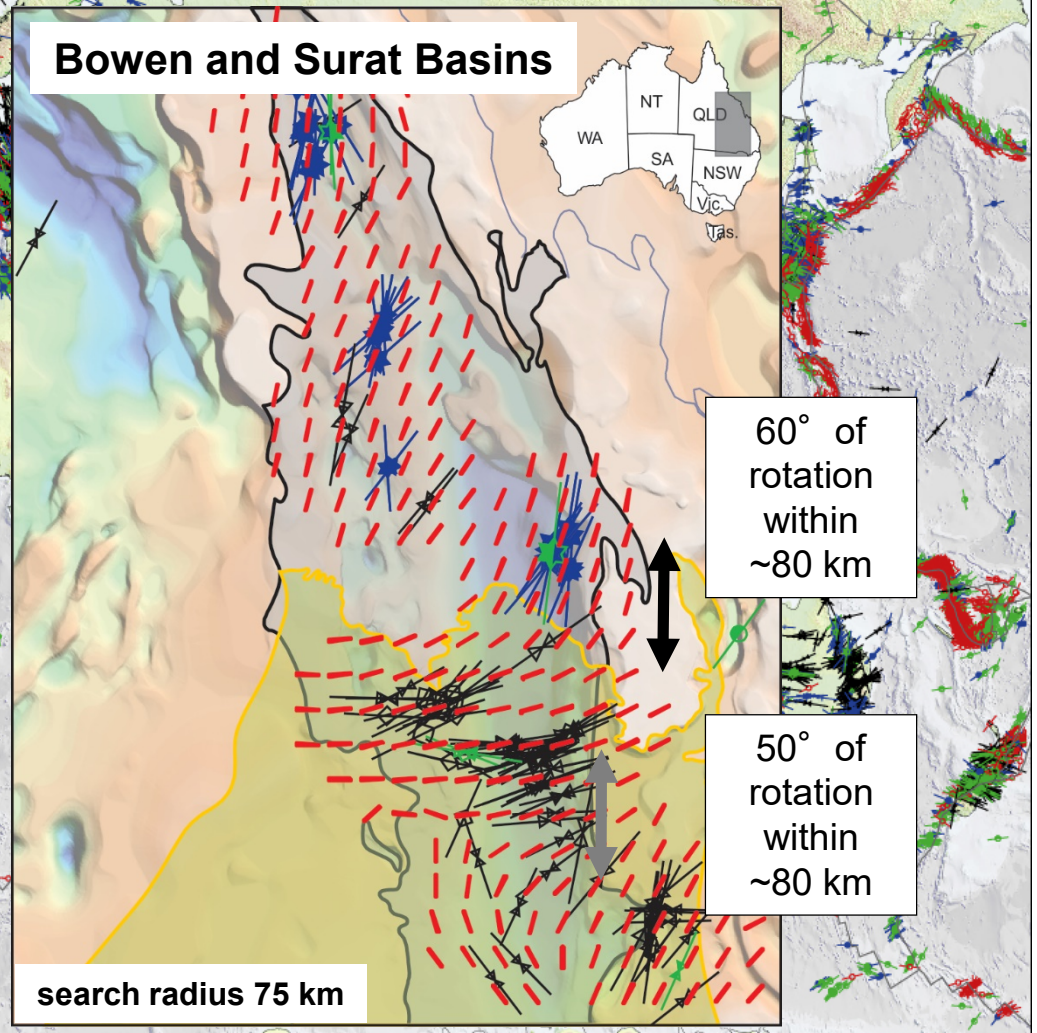
Key Questions

- What drives stress tensor rotations at regional to local scale?
- How far is the stress from criticality in stable continental regions?
- What is the relative importance of plate boundary forces?



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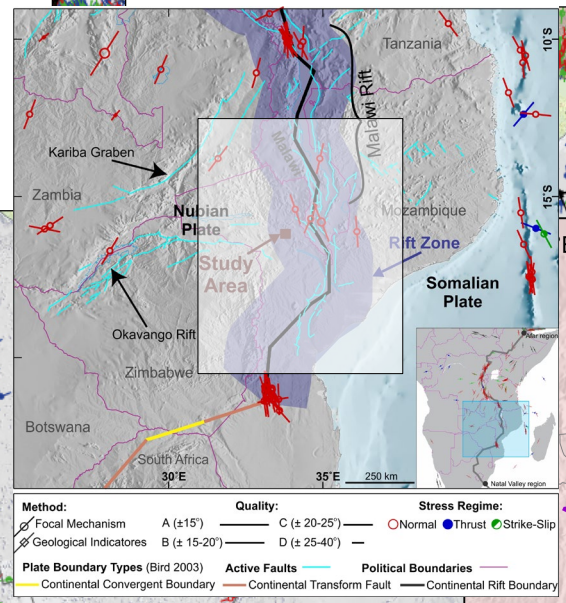
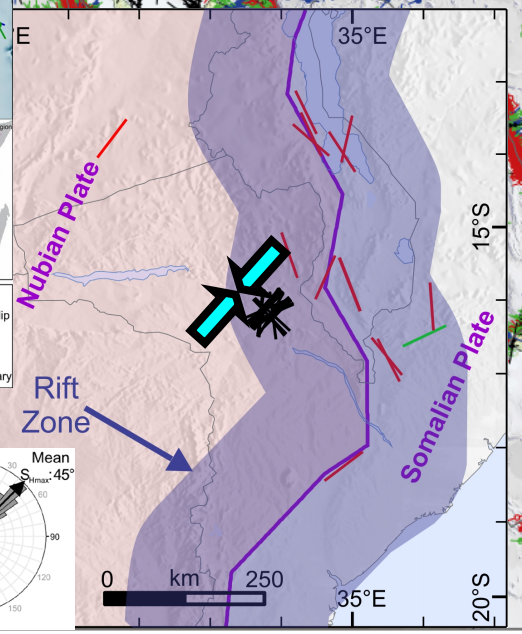
Continue classical WSM database

E.g., Stress orientations inferred from wellbore data near Eastern African Rift System (Moatize Basin, Mozambique)





Analyse of stress orientation using borehole logs from 95 vertical boreholes indicate a mean S_{Hmax} of 045° ± 31°

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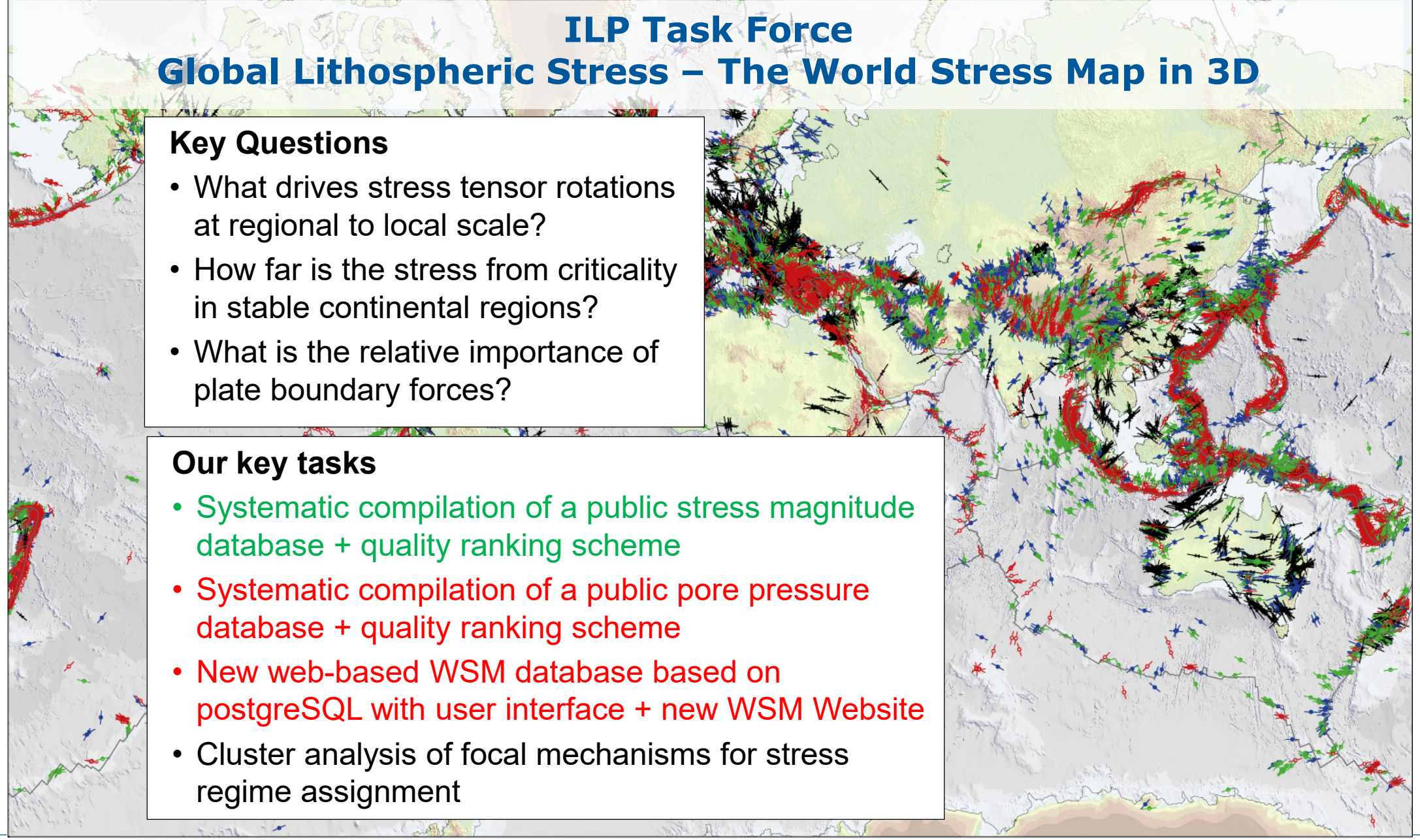

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Our key tasks

- Systematic compilation of a public stress magnitude database + quality ranking scheme
- Systematic compilation of a public pore pressure database + quality ranking scheme
- New web-based WSM database based on postgreSQL with user interface + new WSM Website
- Cluster analysis of focal mechanisms for stress regime assignment

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