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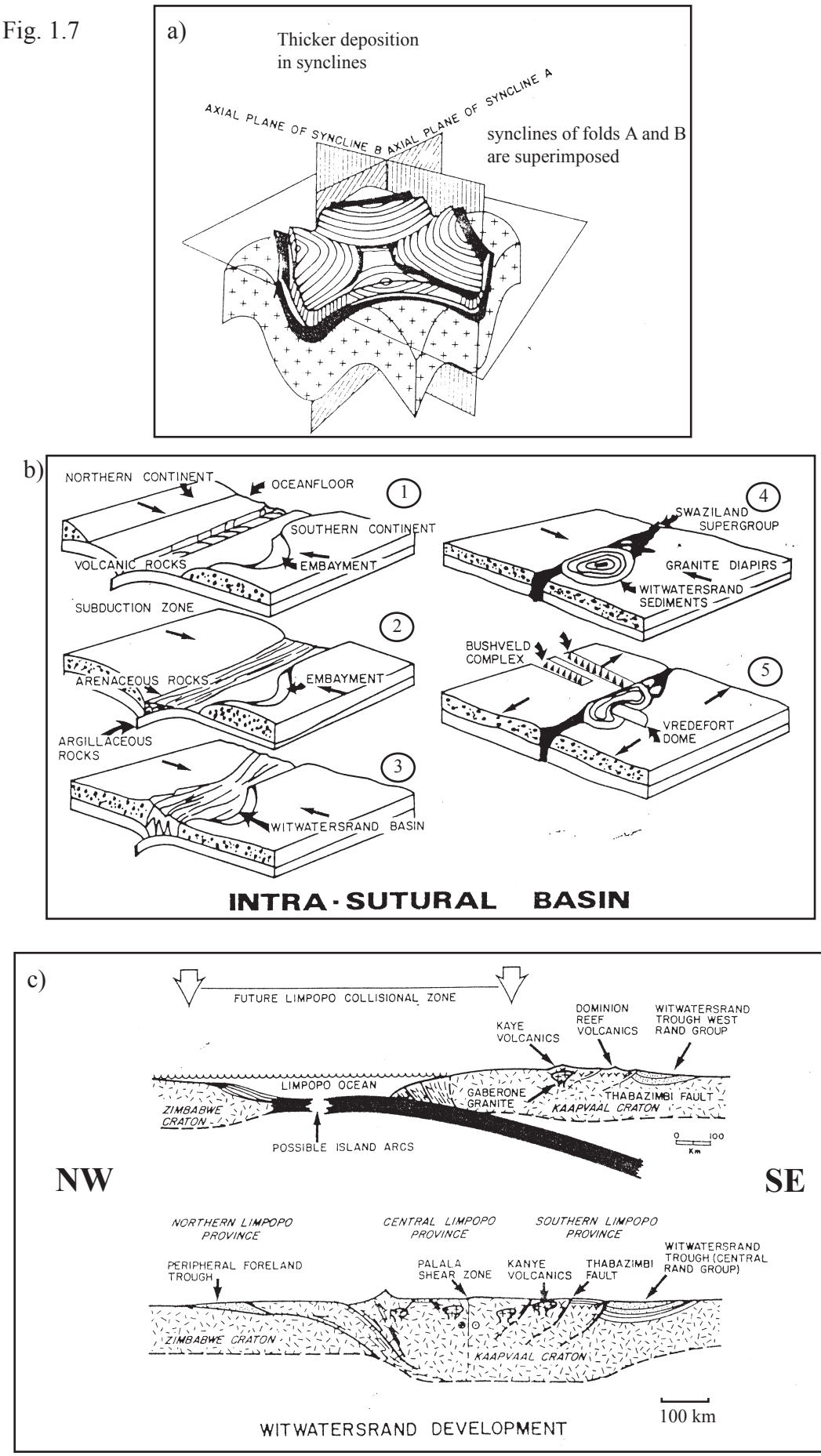
Structural analysis of impact-related deformation in the collar rocks of the Vredefort Dome, South Africa

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2008-10-14T08:12:45Z
http://hdl.handle.net/10539/5748

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Fig. 1.7


a)
Thicker deposition
in synclines
AXIAL PLANE OF SYNCLINE B
AXIAL PLANE OF SYNCLINE A
synclines of folds A and B
are superimposed
b)
NORTHERN CONTINENT
OCEANFLOOR
1
SOUTHERN CONTINENT
VOLCANIC ROCKS
EMBAYMENT
SUBDUCTION ZONE
2
ARENACEOUS ROCKS
EMBAYMENT
ARGILLACEOUS ROCKS
3
WITWATERSRAND BASIN
4
SWAZILAND SUPERGROUP
GRANITE DIAPIRS
WITWATERSRAND SEDIMENTS
BUSHVELD COMPLEX
5
VREDEFORT DOME
INTRA-SUTURAL BASIN
c)
FUTURE LIMPOPO COLLISIONAL ZONE
KAYE VOLCANICS
DOMINION REEF VOLCANICS
WITWATERSRAND TROUGH WEST RAND GROUP
LIMPOPO OCEAN
GABERONE GRANITE
THABAZIMBI FAULT
ZIMBABWE CRATON
KAAPVAAL CRATON
POSSIBLE ISLAND ARCS
0 100 Km
NW
SE
NORTHERN LIMPOPO PROVINCE
CENTRAL LIMPOPO PROVINCE
SOUTHERN LIMPOPO PROVINCE
PERIPHERAL FORELAND TROUGH
PALALA SHEAR ZONE
KANYE VOLCANICS
THABAZIMBI FAULT
WITWATERSRAND TROUGH (CENTRAL RAND GROUP)
ZIMBABWE CRATON
KAAPVAAL CRATON
100 km
WITWATERSRAND DEVELOPMENT