

NV dome fold interference

The NV domes formed by the superposition of four folding events. The D1-D2, and D2-D4 fold interferences are directly responsible for the outcrop pattern of the NV domes, as type 1 and type 3 fold interference patterns respectively (Fig. 3).

D1: E-W shortening

Upright F1 folds and steep N-S-striking S1 fabrics. (Fig. western Vergenoeg dome closure, and NV domes interiors.)

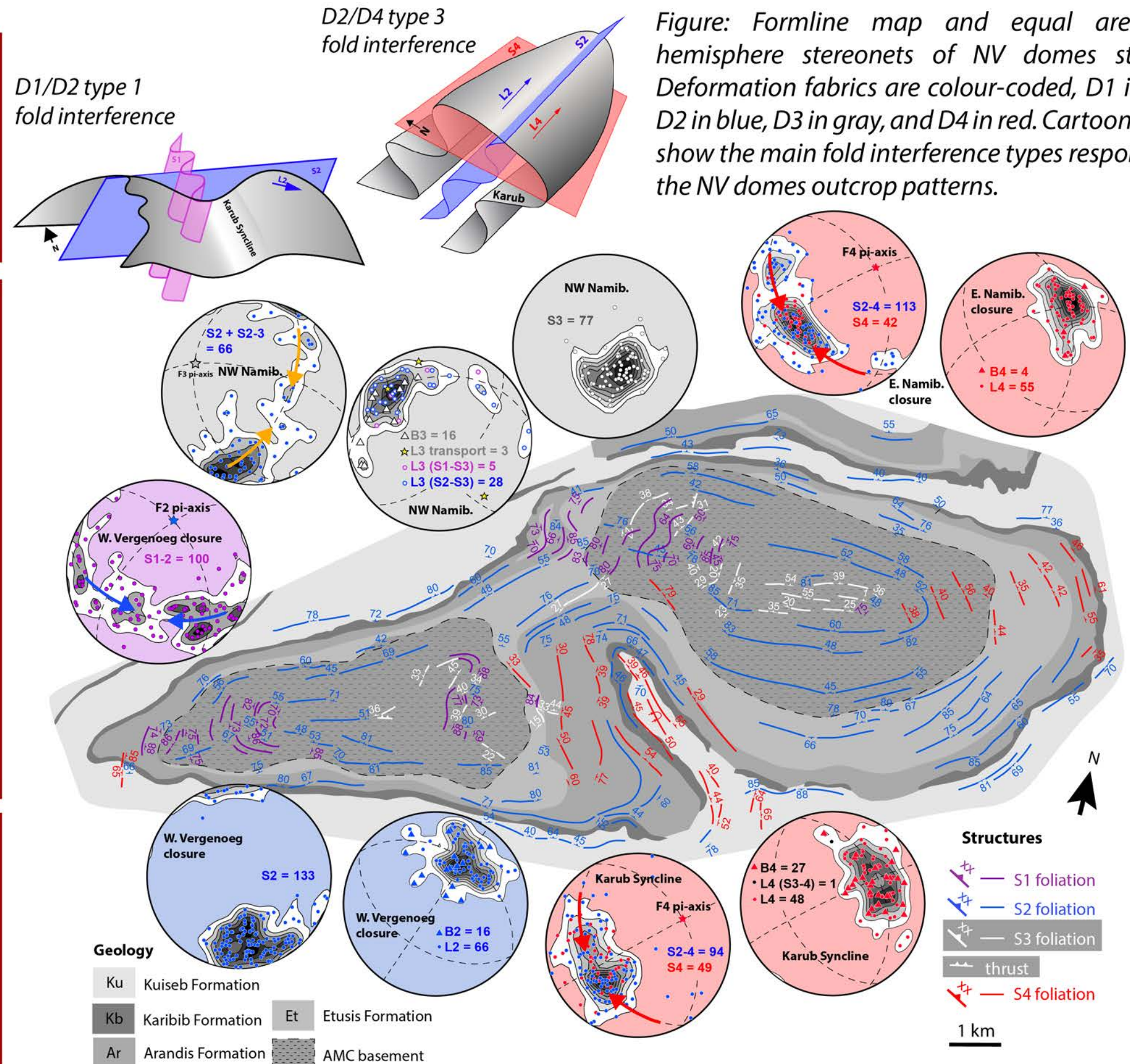
D2 and D3 N-S shortening

D2: Dome-scale NE-plunging F2 anticlines with steep E-W-striking S2 fabrics. (Fig. main ENE-WSW elongation of the NV domes in map view, and western Vergenoeg dome closure.)

D3: Shallowly W-plunging recumbent to inclined F3 folds, with shallow NW-dipping S3 fabrics. (Fig. NV domes interiors)

D4 NE-SW shortening

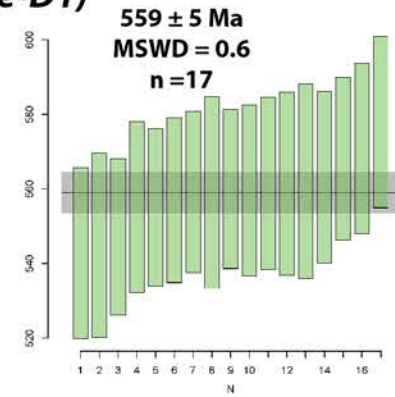
NE-plunging F4 folds and moderately NE-dipping S4 fabrics. (Fig. Karub Syncline and eastern Namibfontein dome closure)



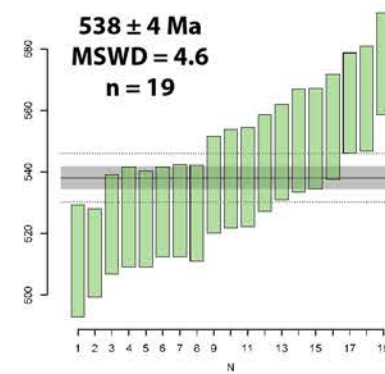
Age dating extras

Field photographs and $^{206}\text{Pb}/^{238}\text{U}$ weighted mean plots of dated samples.

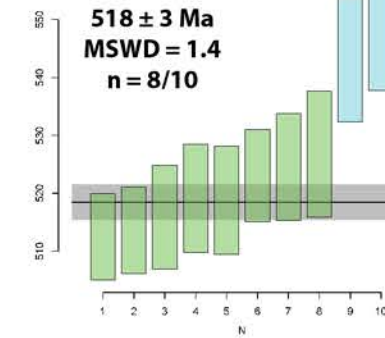
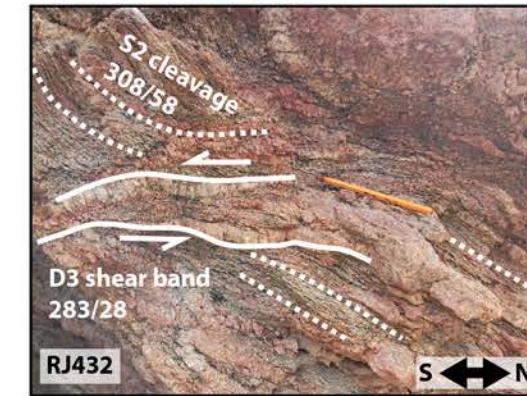
S-type granite with S1 cleavage (pre-D1)



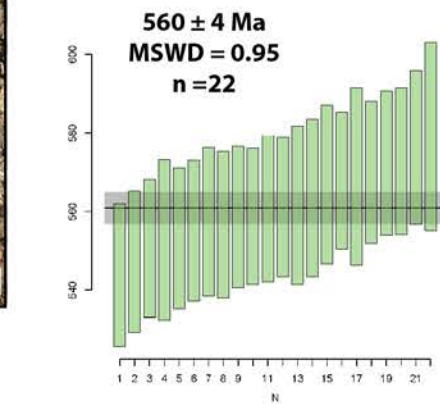
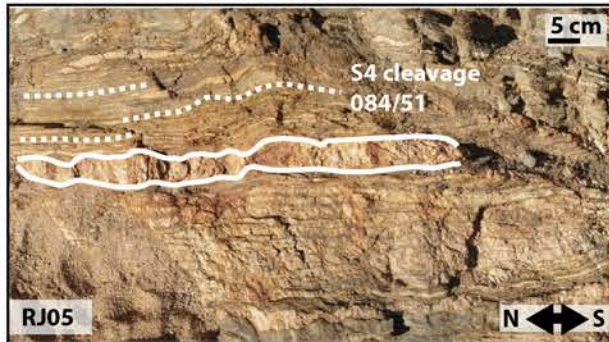
F3-folded granite (pre-D3)



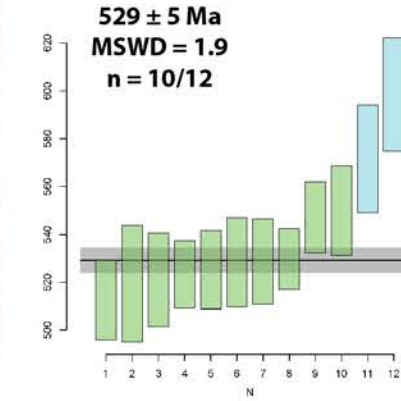
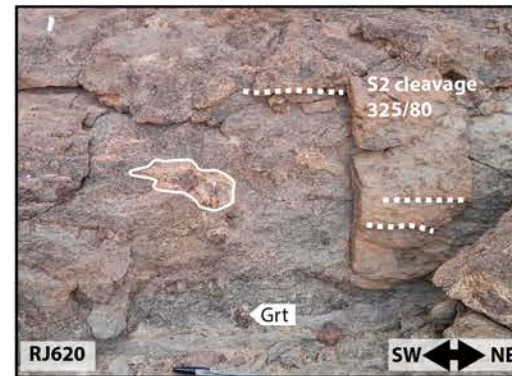
S3 leucosome (syn-D3)



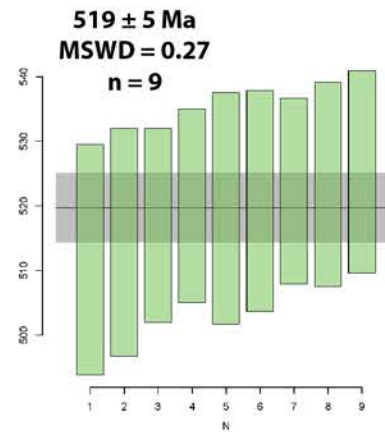
granite sill (pre-syn D1?)



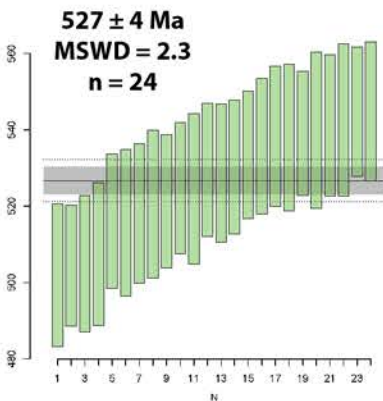
S2 leucosome (syn-D2)



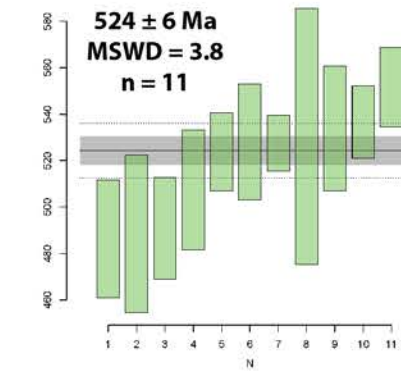
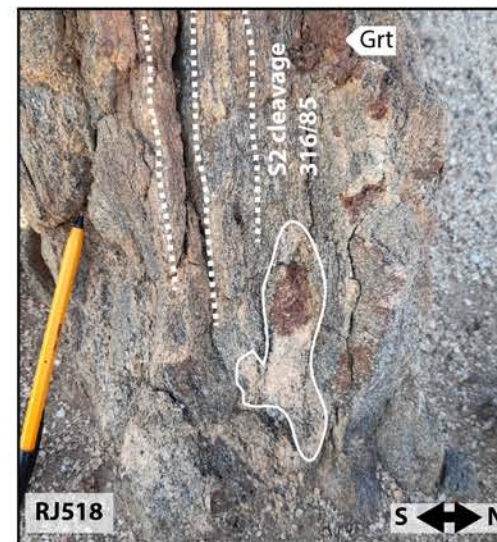
undeformed granite cutting S3 (post-D3)



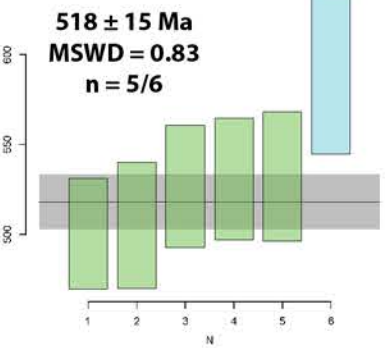
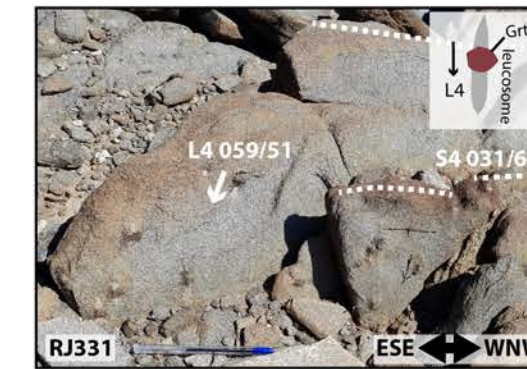
F1-folded granite (pre-syn-D1)



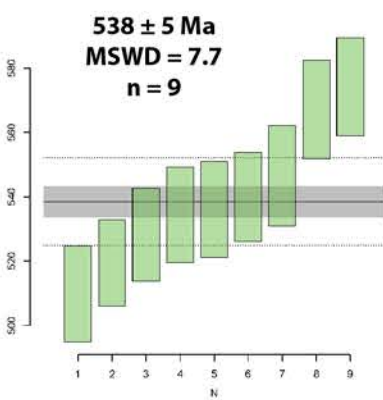
S2 leucosome (syn-D2)



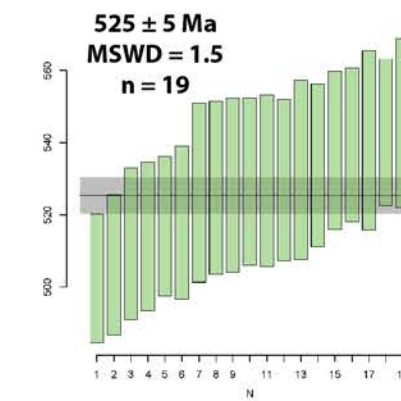
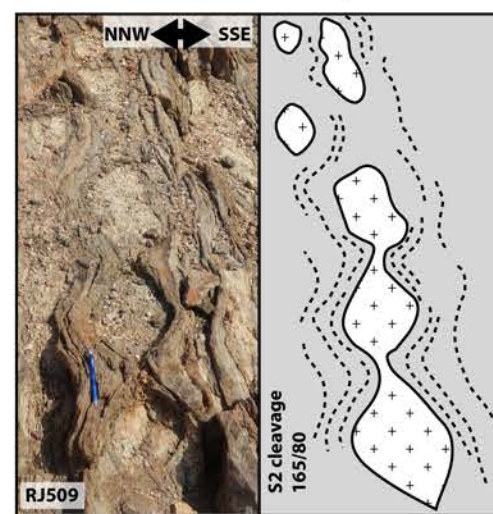
L4 leucosome (syn-D4)



F4-folded granite (pre-D4)



S2 leucogranite (syn-D2)



L4 leucosome (syn-D4)

