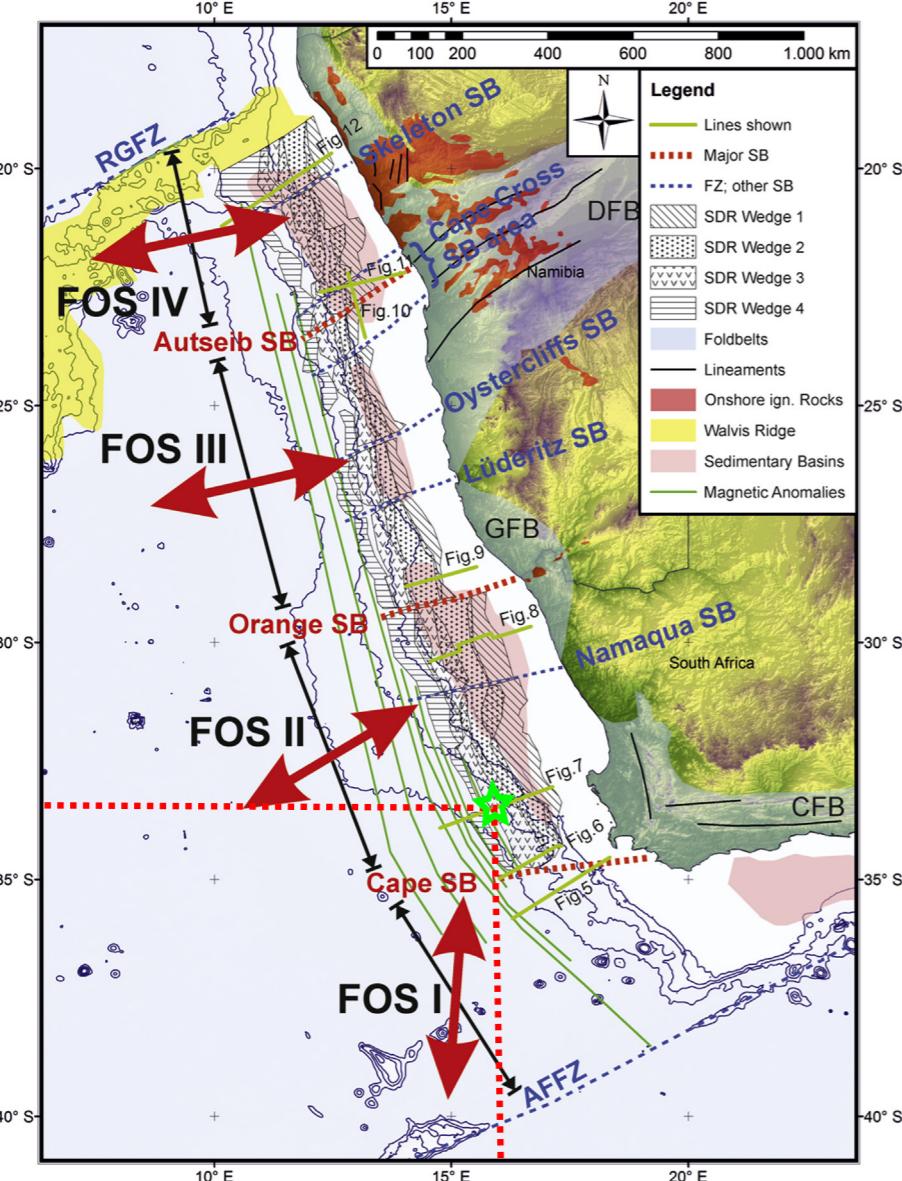
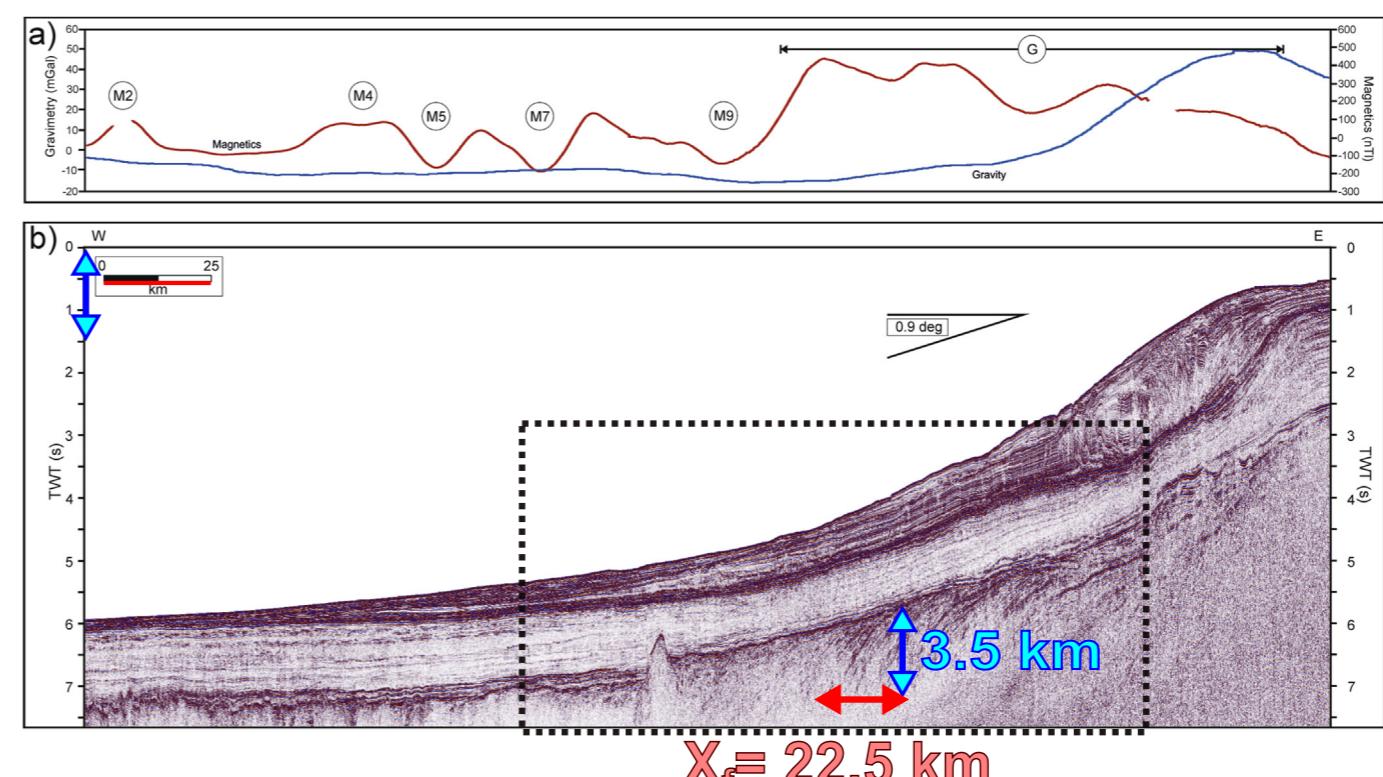


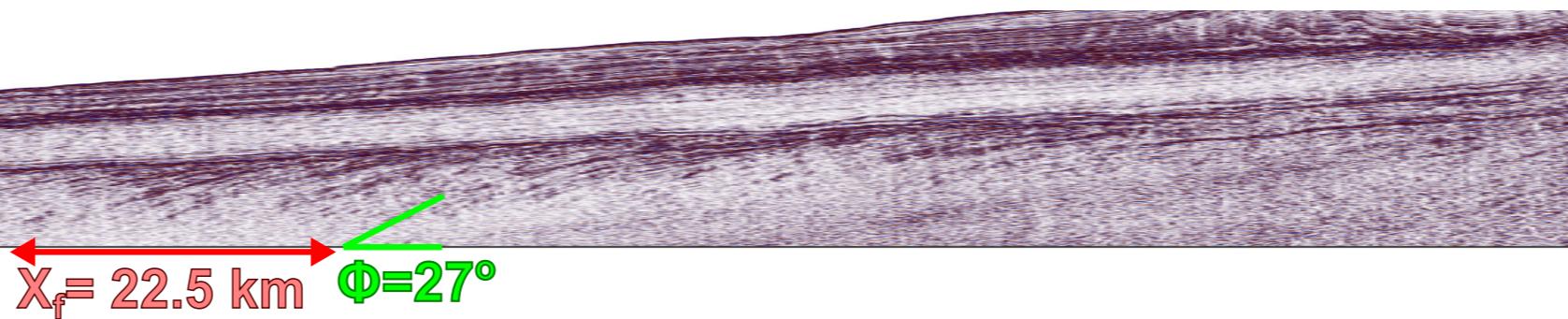
16° -33.2°



$H = 44 \text{ px}$ $Y = 1.4/2=0.7\text{s}$
 $L = 50 \text{ px}$ $=3.5 \text{ km}$ $\text{VE} \sim 6.3$
 $X = 25 \text{ km}$



VE~1



Koopmann et al., MPG, 2014 fig. 7 South Africa TWTT

$16^\circ - 33.2^\circ$

$X_f = 22.5 \text{ km}$

$W_s(X_f) = 3.5 \text{ km}$

$\Phi = 27^\circ$

$T_{e_{xf}} = 1467 \text{ m}$

$\alpha_{xf} = 14324 \text{ m}$

$T_{e_y} = 1079 \text{ m}$

$\alpha_y = 11374 \text{ m}$

$T_{e_{avg}} = 1273 \text{ m}$

$\alpha_{avg} = 12849 \text{ m}$

$T_{e_{err}} = 26.5\%$

$H_d = 3281 \text{ m (from } \Phi \text{ and } T_{e_{avg}})$