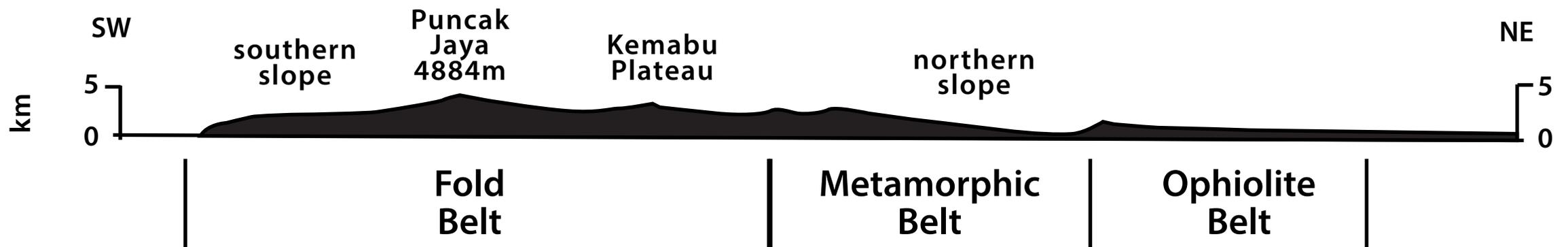
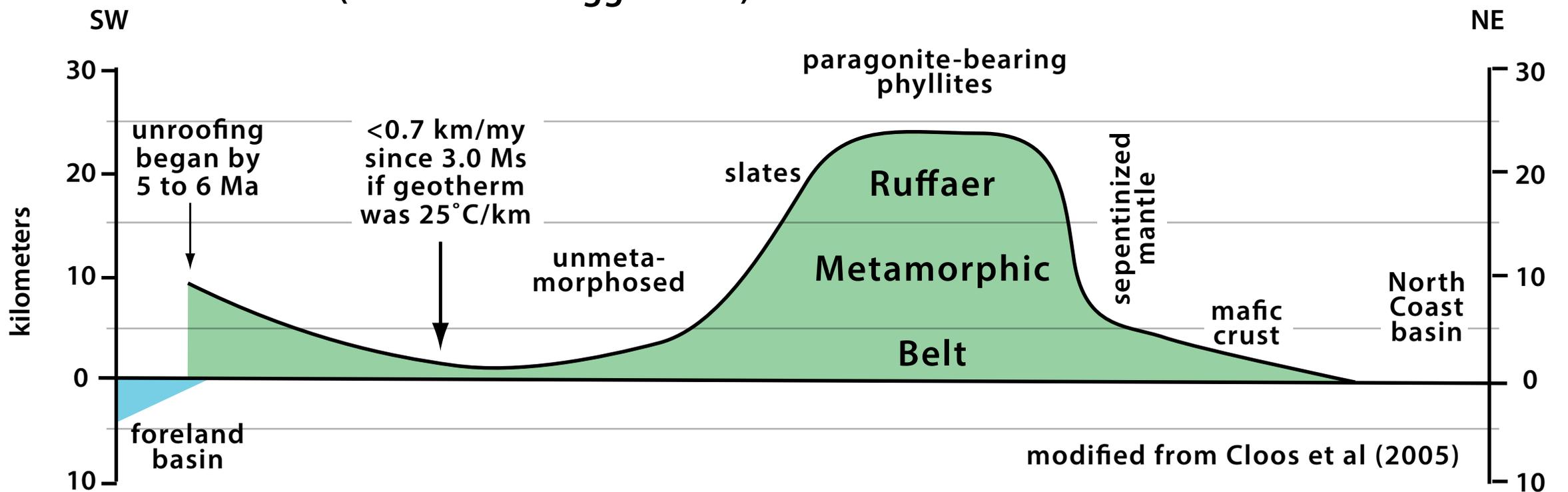


Modern Topography (no vertical exaggeration)

12-4 Ma Central Range Orogeny



Total Denudation (no vertical exaggeration)



Supplemental Figure 10. Modern topography and differences in depth of denudation in the Central Range orogen of Papua, New Guinea, modified from Cloos et al. (2005), and illustrating ~25 km exhumation on the opposite side of the orogen from the foreland. Large rivers have transported most debris northward to the North Coast basin because the nearly 5 km high Central Range (Puncak Jaya) blocks drainage to the south. We see this as a more modern example of the post-collisional sedimentation in the back-arc region, such as the <math><100 \text{ Ma}</math> Valle, Great Valley, Nanaimo, and McHugh successions, caused by slab break off and consequent exhumation of the hinterland belt.