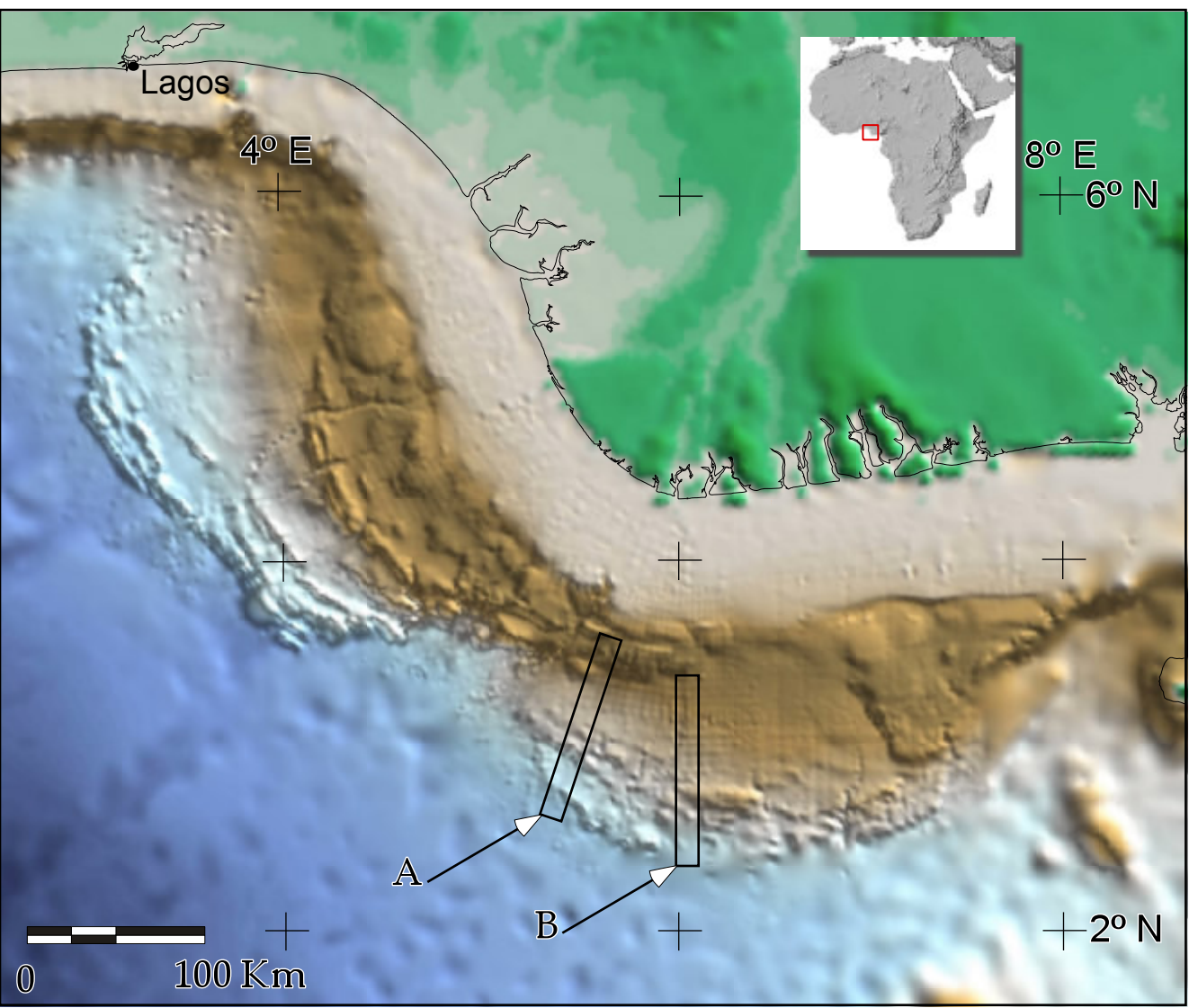


STRUCTURAL STYLES IN THE DEEP-WATER FOLD-AND-THRUST BELTS OF THE NIGER DELTA

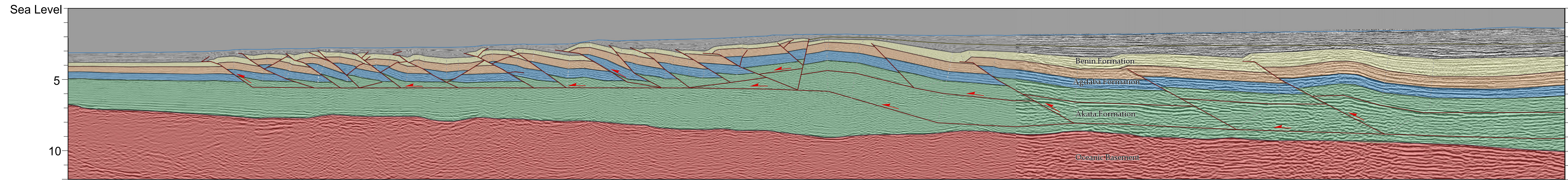
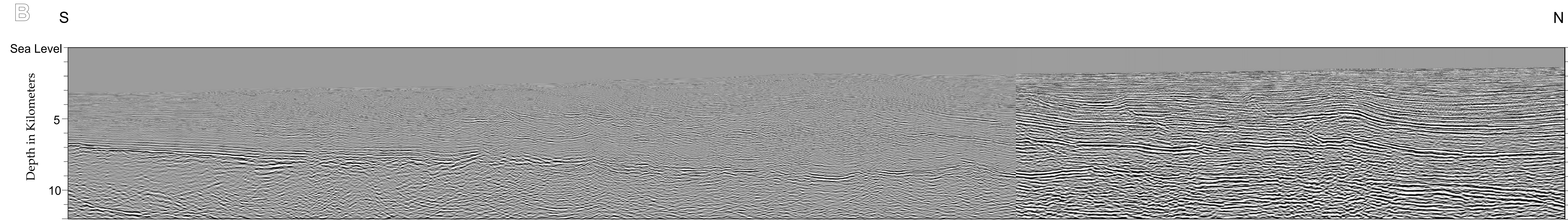
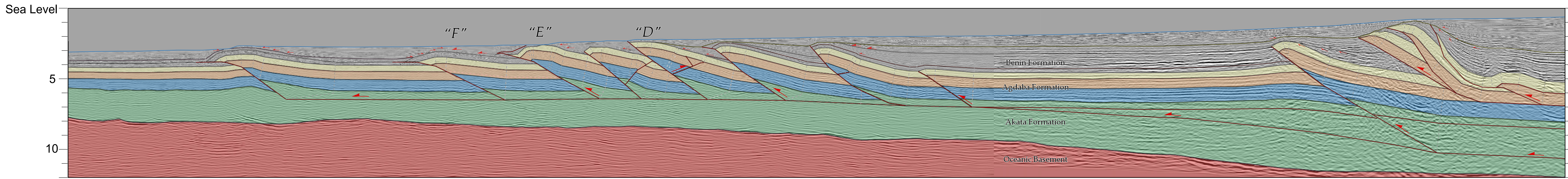
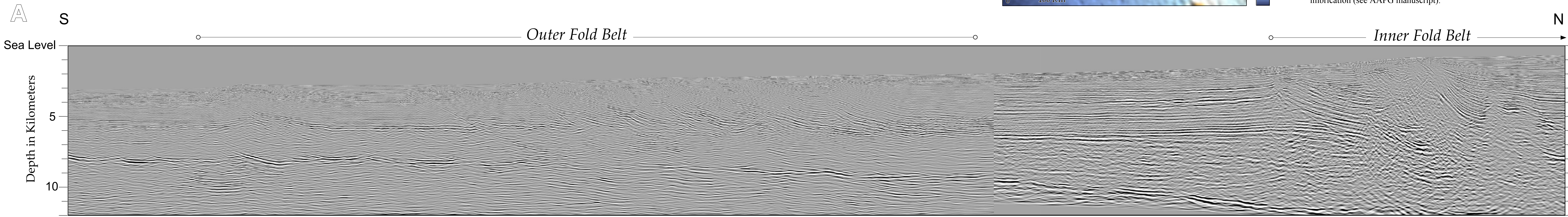
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(LEFT) High-resolution bathymetric image of the Niger Delta obtained from a dense grid of 2D seismic reflection profiles and the global bathymetric database (Smith and Sandwell, 1997), showing the location of the two regional seismic sections across the fold belts of the deep-water Niger Delta

(DOWN) Regional un-interpreted and interpreted seismic profiles through (A) a single detachment imbricate thrust system (Type I), and (B) a master ramp hanging-wall imbricate thrust system (Type II) in the Outer fold-and-thrust belt of the deep-water Niger Delta. Both seismic lines displayed at the same scale. Location shown in the bathymetric image [Seismic data in (A) are courtesy of Mabon Ltd., and seismic data in (B) are courtesy of Veritas DLG]. D, E, and F fault imbricates are used to identify multiple sequences of imbrication (see AAPG manuscript).



Vertical Scale = Horizontal Scale

5 km