

Figure 1: Geological map of the study area (Adapted from NGSA, 2004)

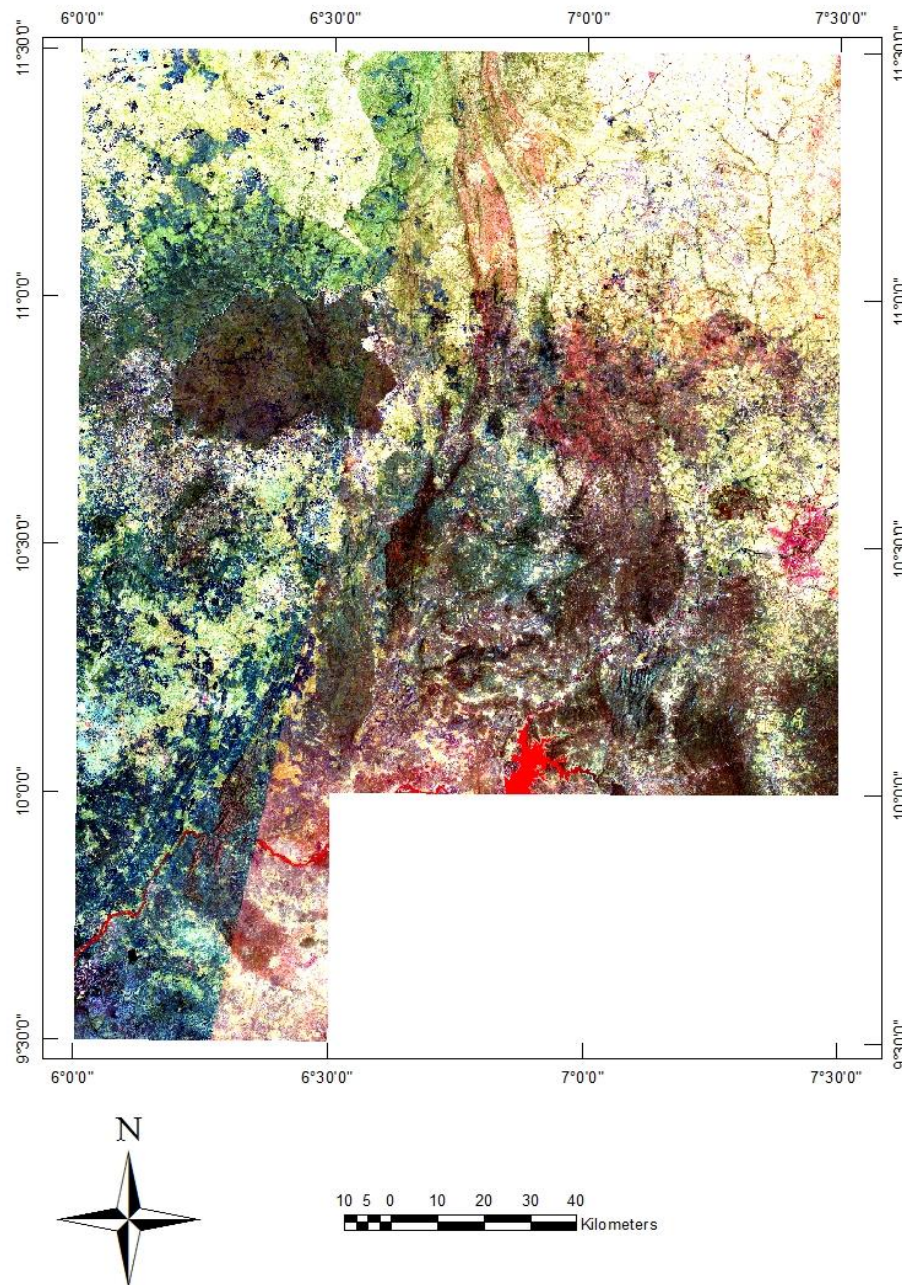


Figure 2: Landsat ETM+ false colour composite image (FCC) using bands 357 (RGB) suitably pan-sharpened, contrast stretched and edge enhanced

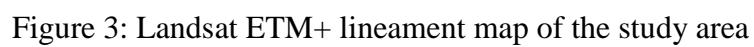


Figure 3: Landsat ETM+ lineament map of the study area



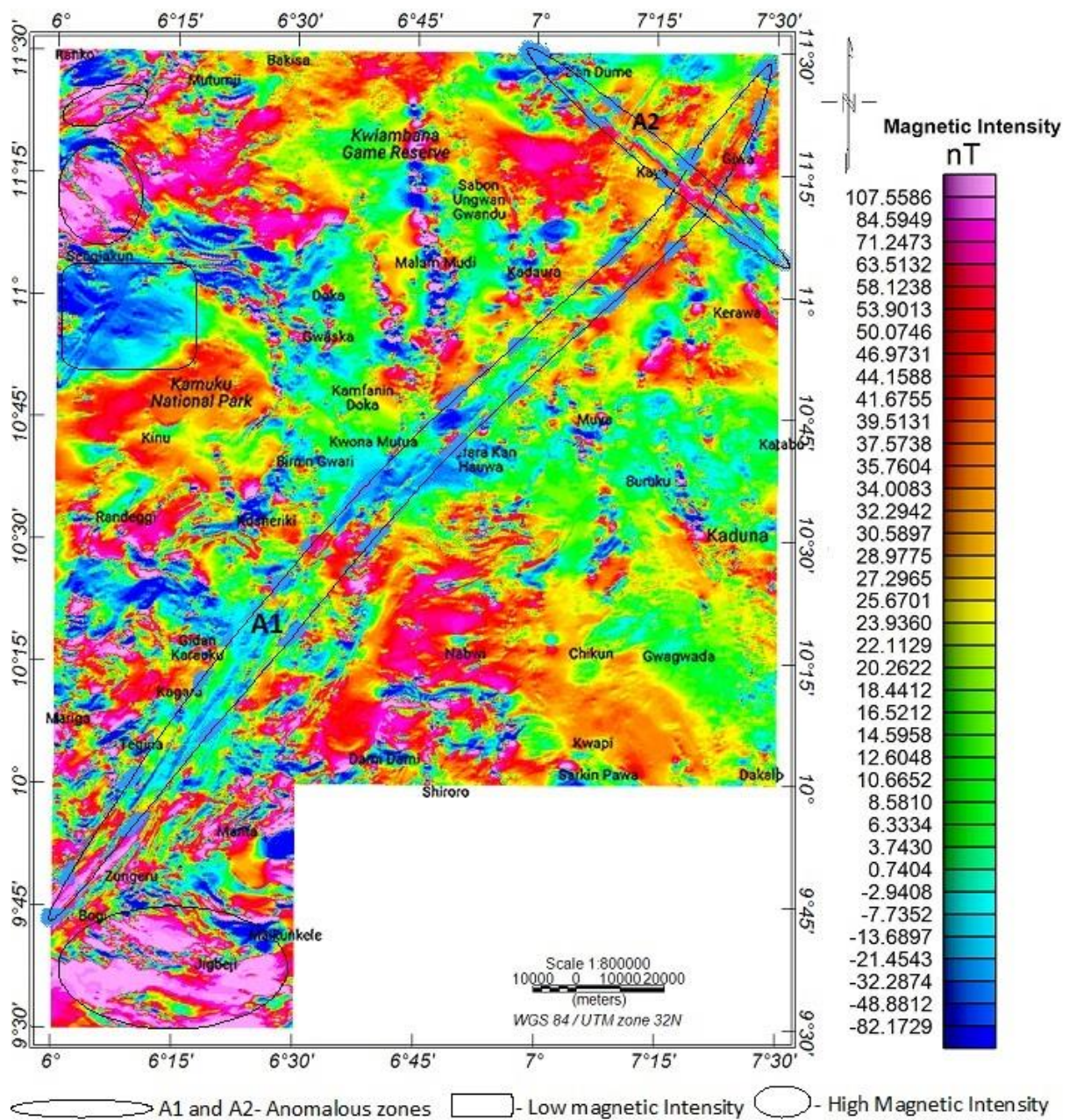


Figure 4: Total magnetic intensity (TMI) map of the study area

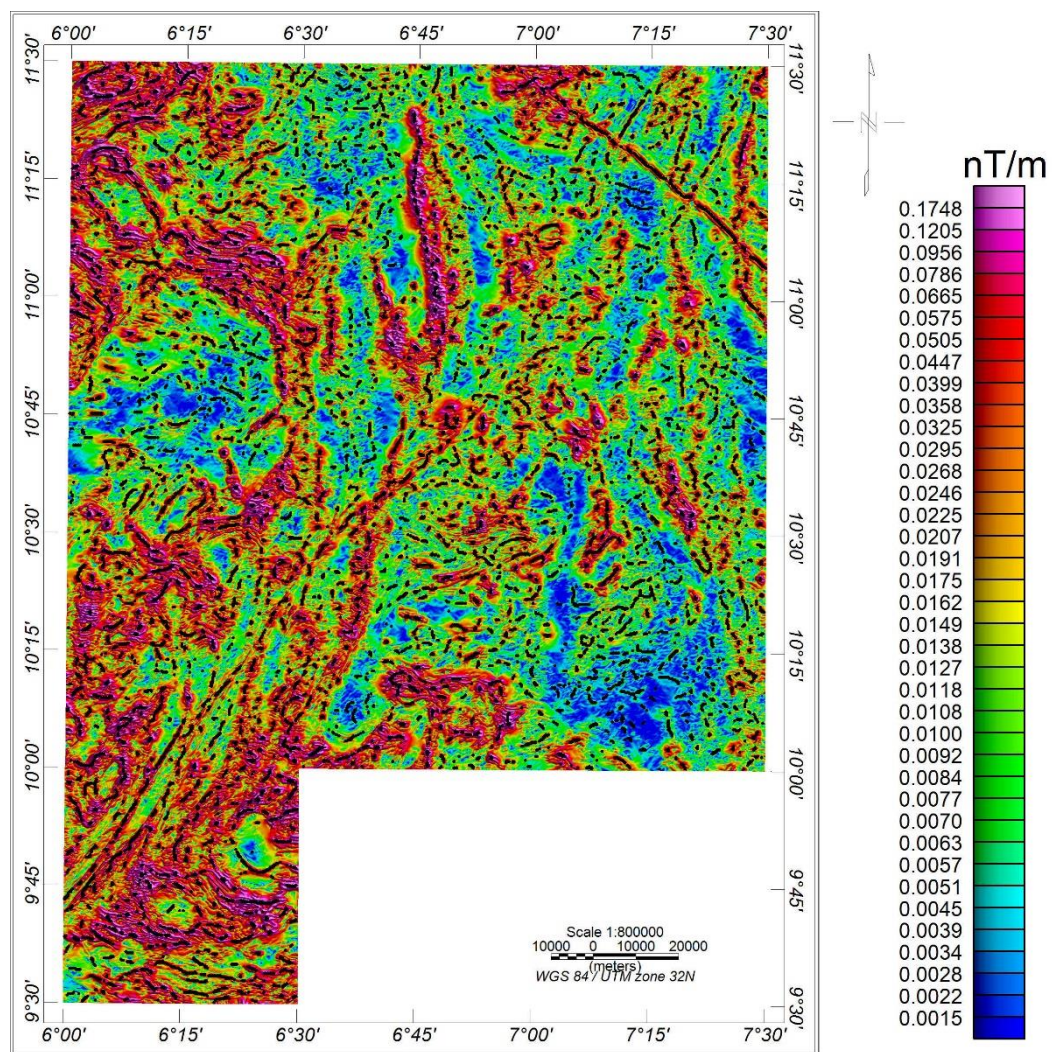


Figure 5: Total horizontal derivative map with maximum amplitude points overlain on the map



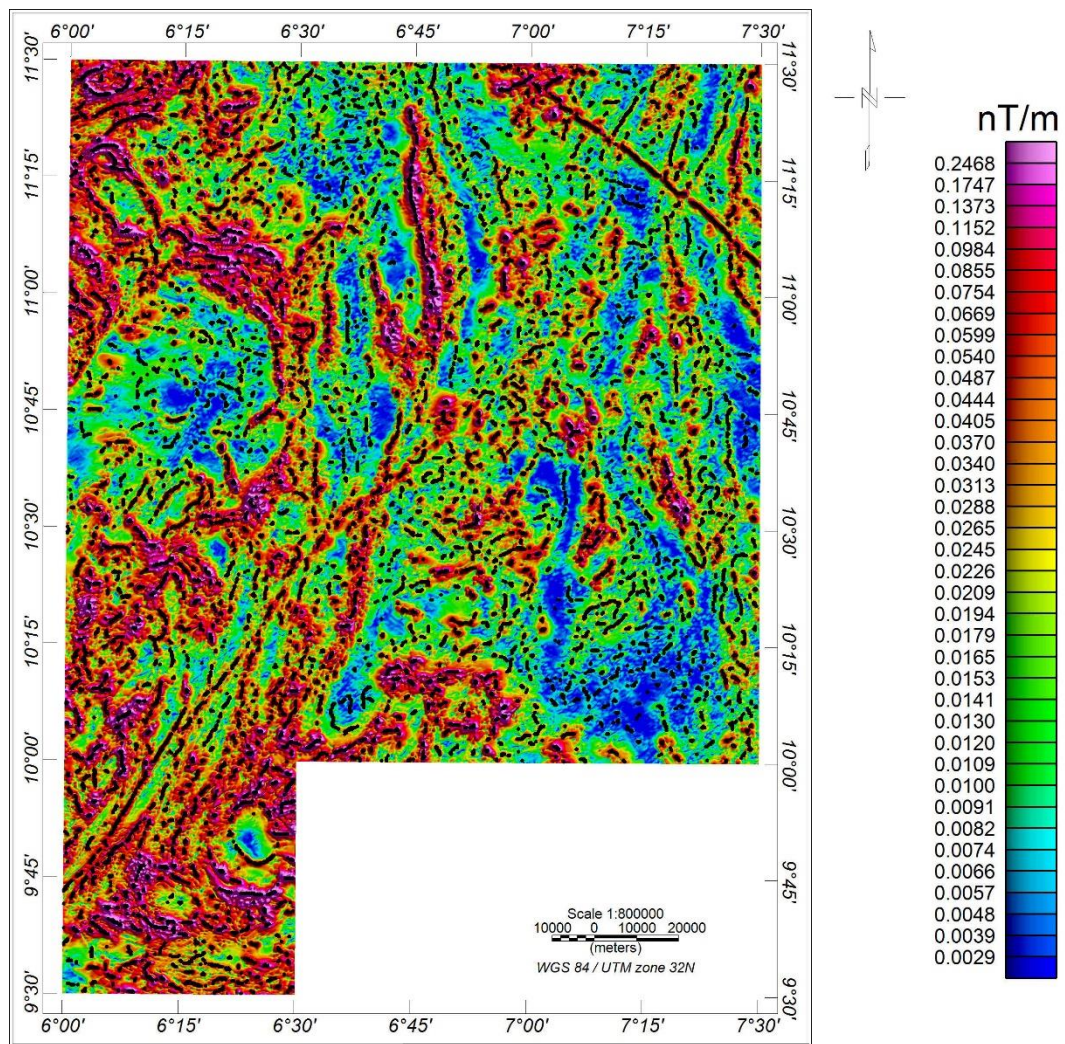


Figure 6: Analytic signal amplitude map with maximum amplitude points overlain on the map

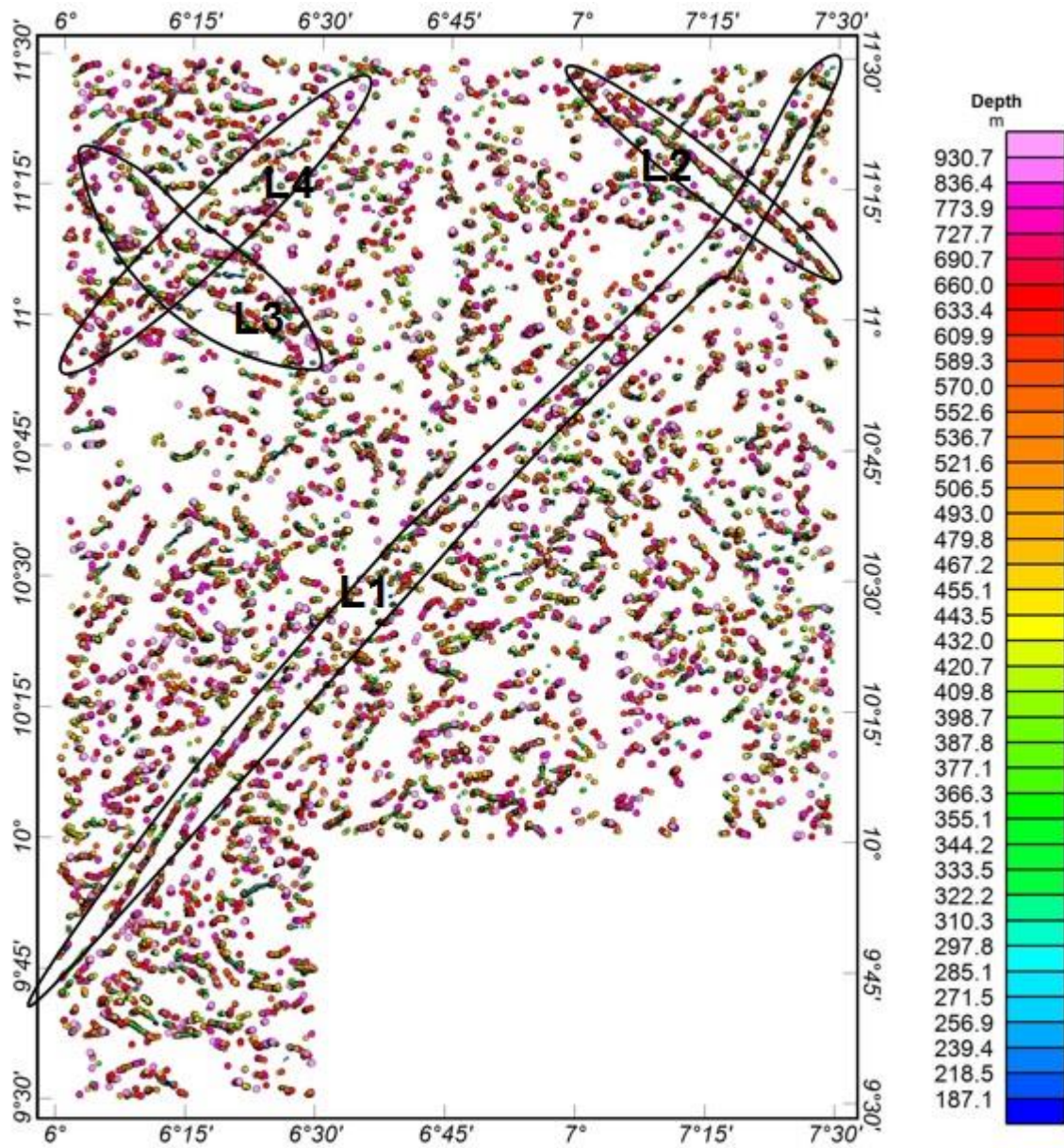


Figure 7: Euler solutions plot using structural index of 1 (depth varies with colour)



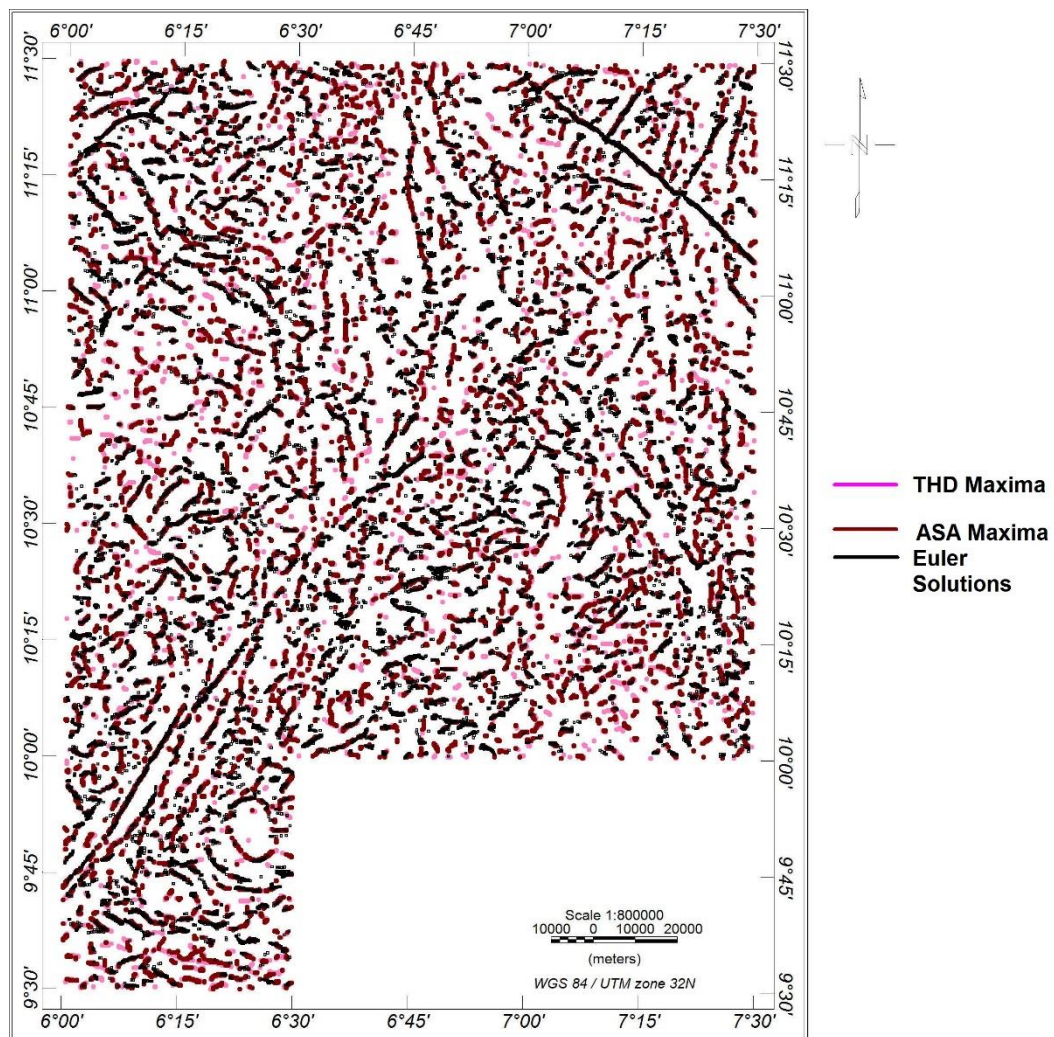


Figure 8: Composite Map of the estimated Locations from THD (pink), ASA (brown) and Euler Solutions (black)



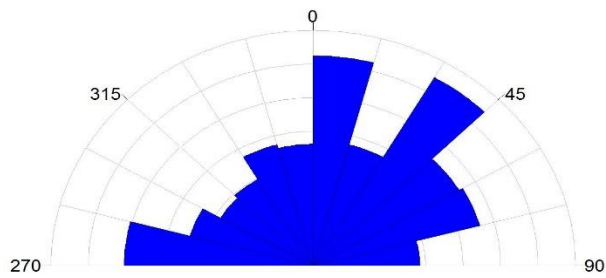
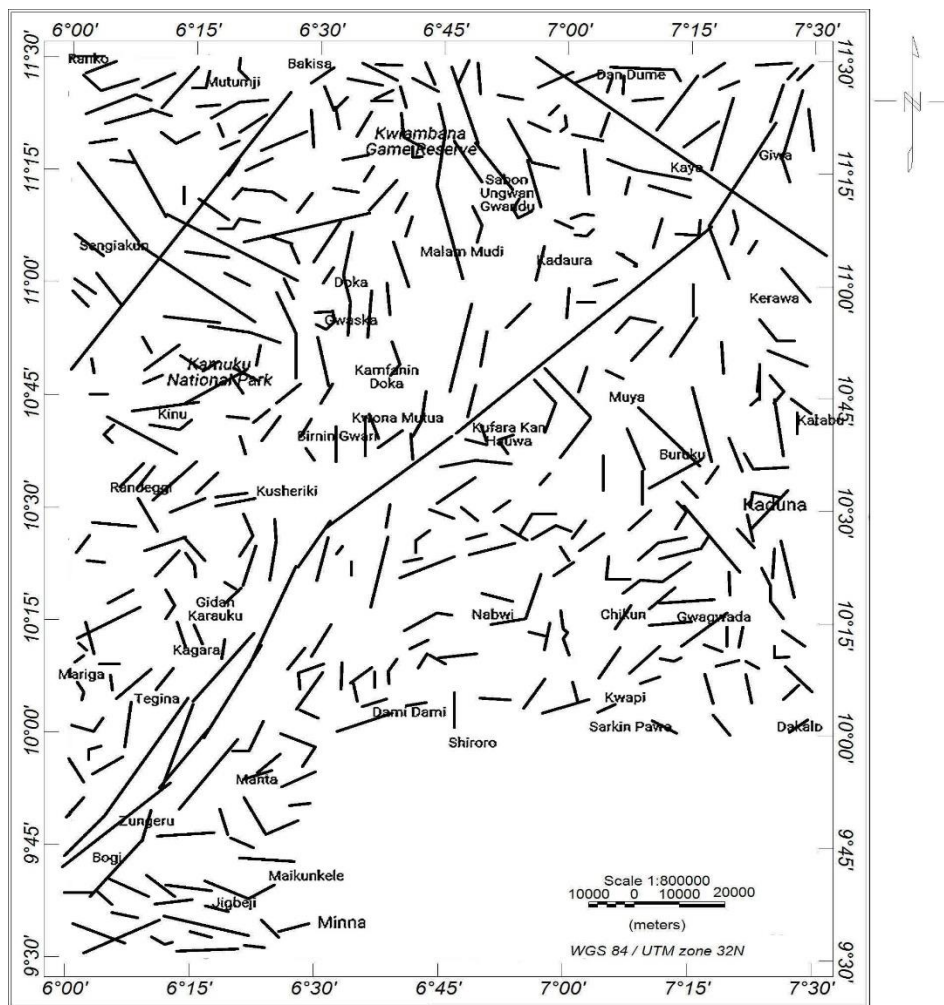


Figure 9: Inferred Contact Locations Map from THD and ASA

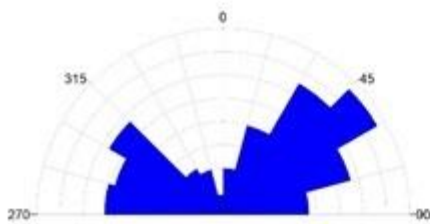
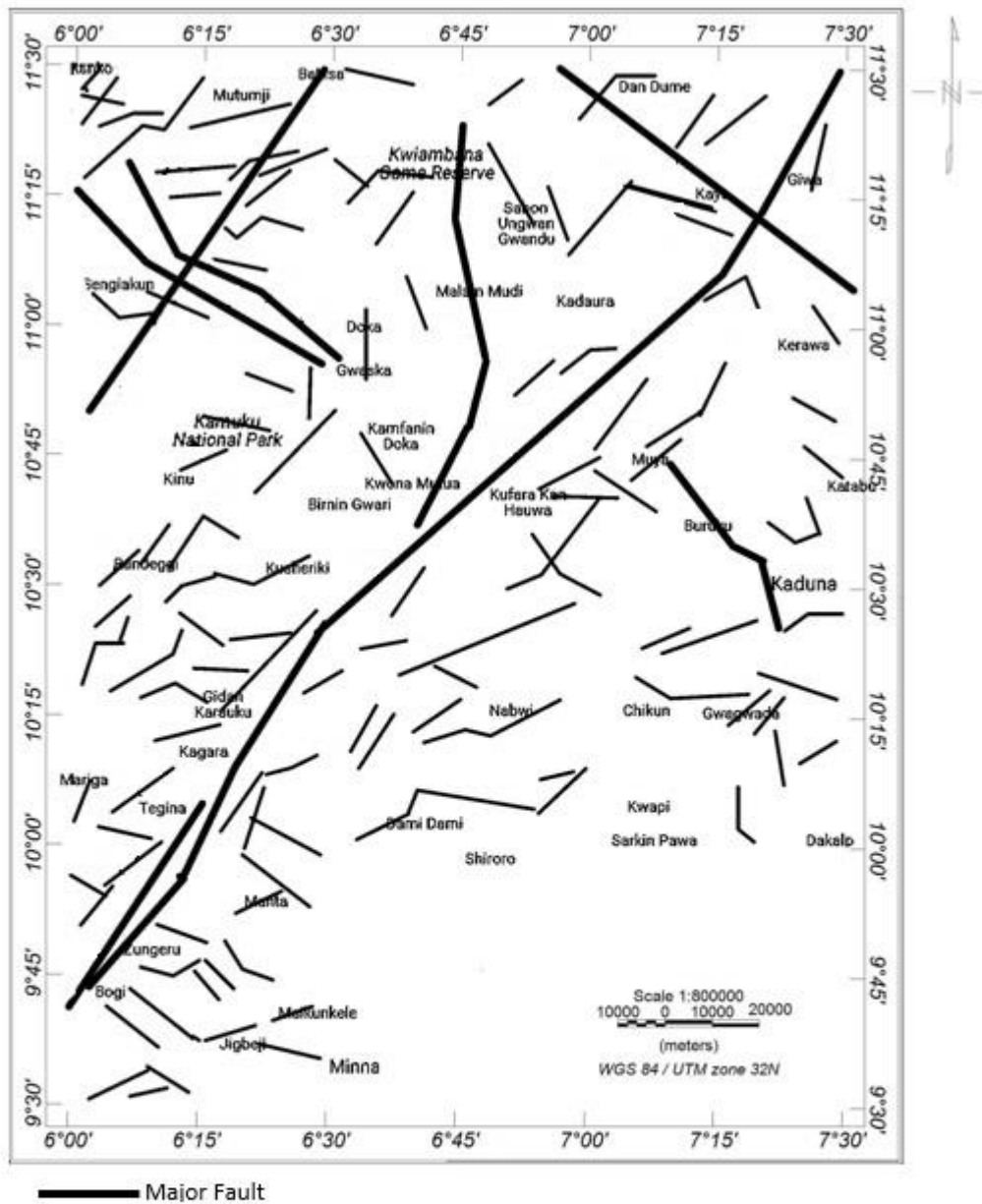


Figure 10: Lineament Map of the Study Area showing the Inferred Faults from the Composite Map of the THD, ASA and Euler Solutions



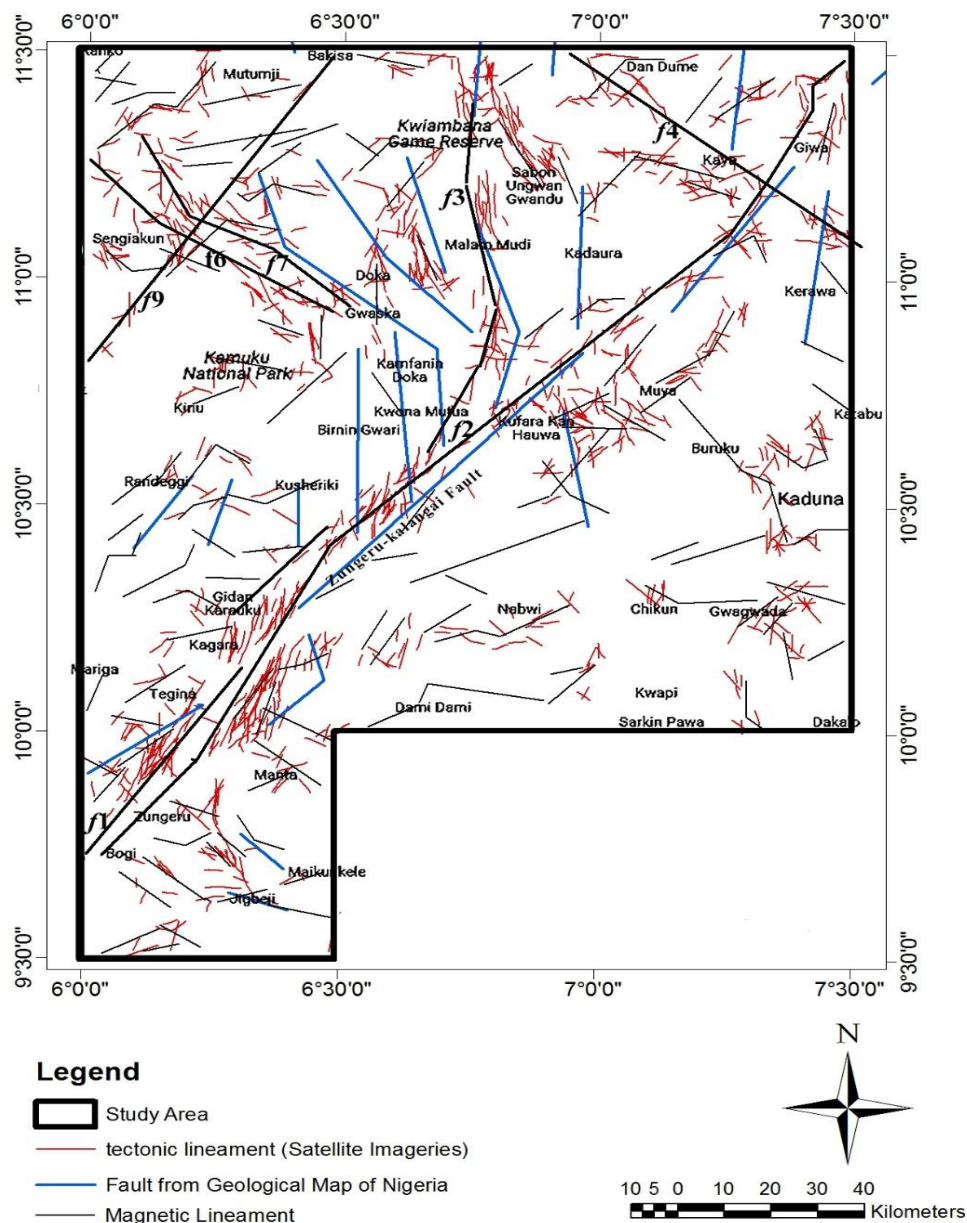


Figure 11: Composite lineament map of the inferred faults from HRAD and tectonic lineaments from the satellite imageries superimposed on the existing structural map of the study area.

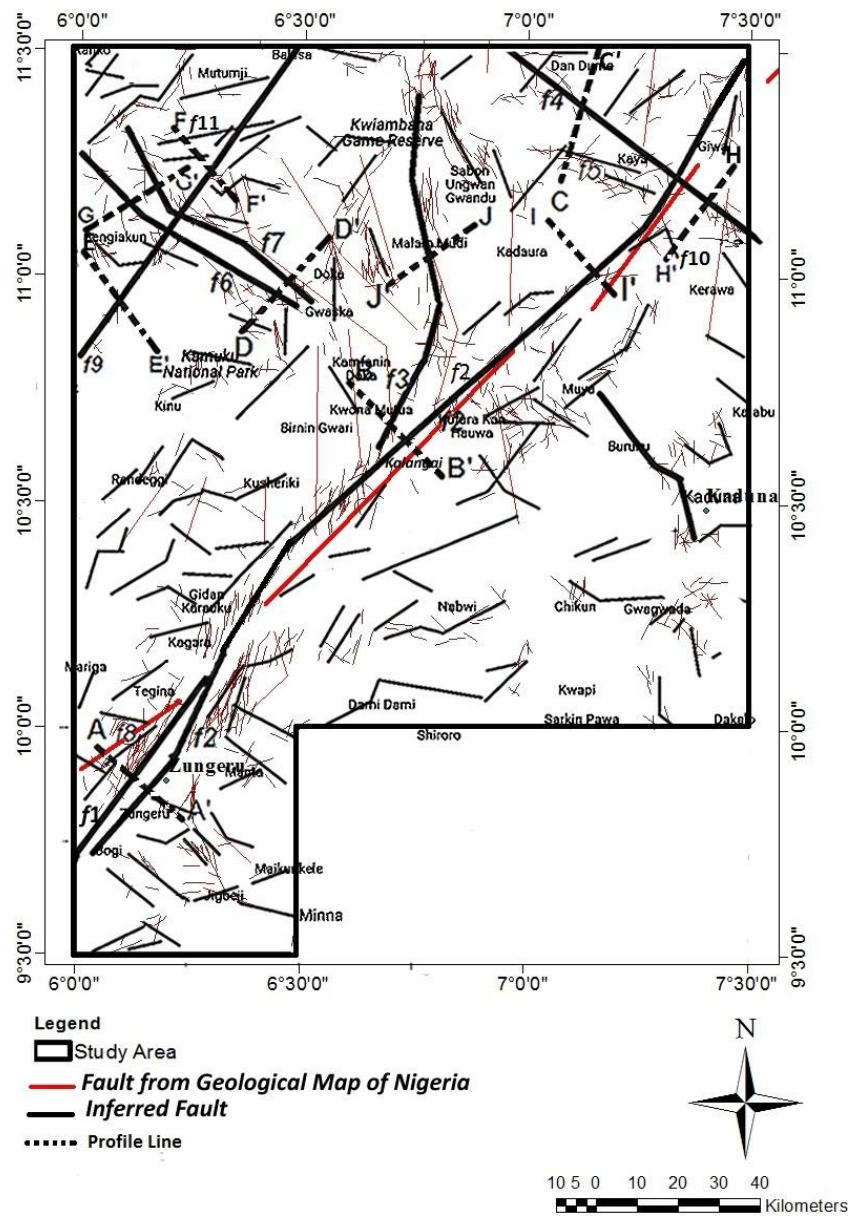


Figure 12a: Ten magnetic profiles drawn across major faults



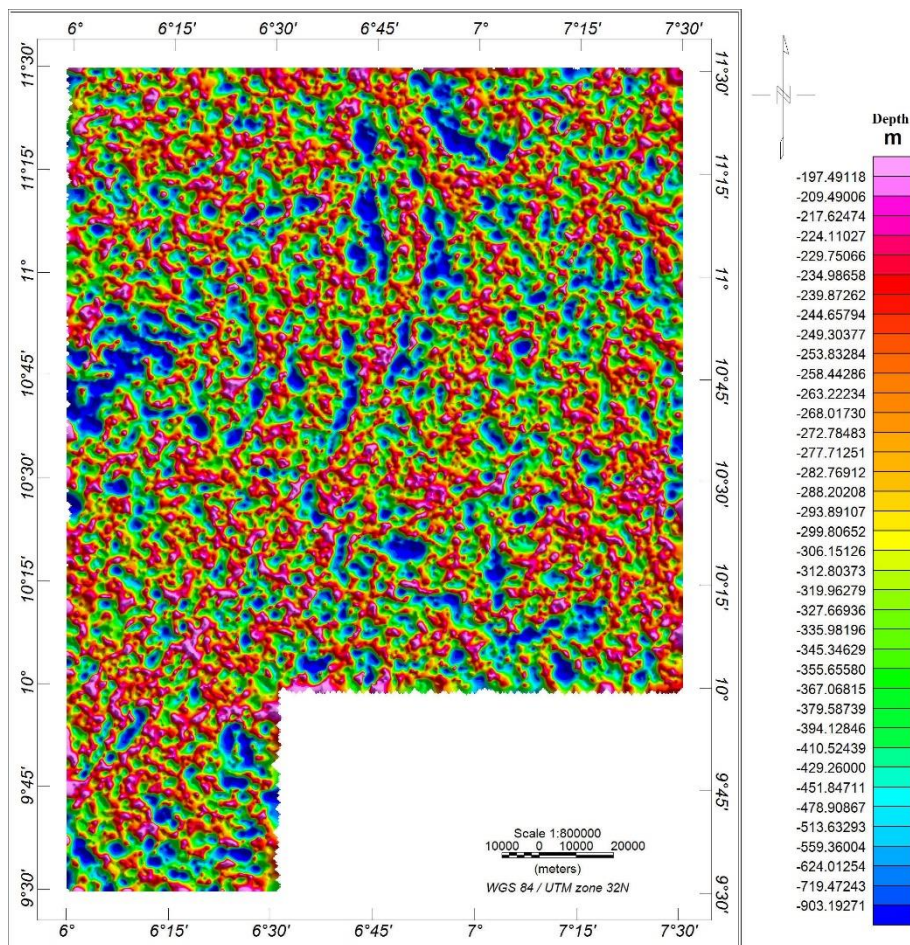


Figure 12b: SPI map showing variations in depth to across the study area

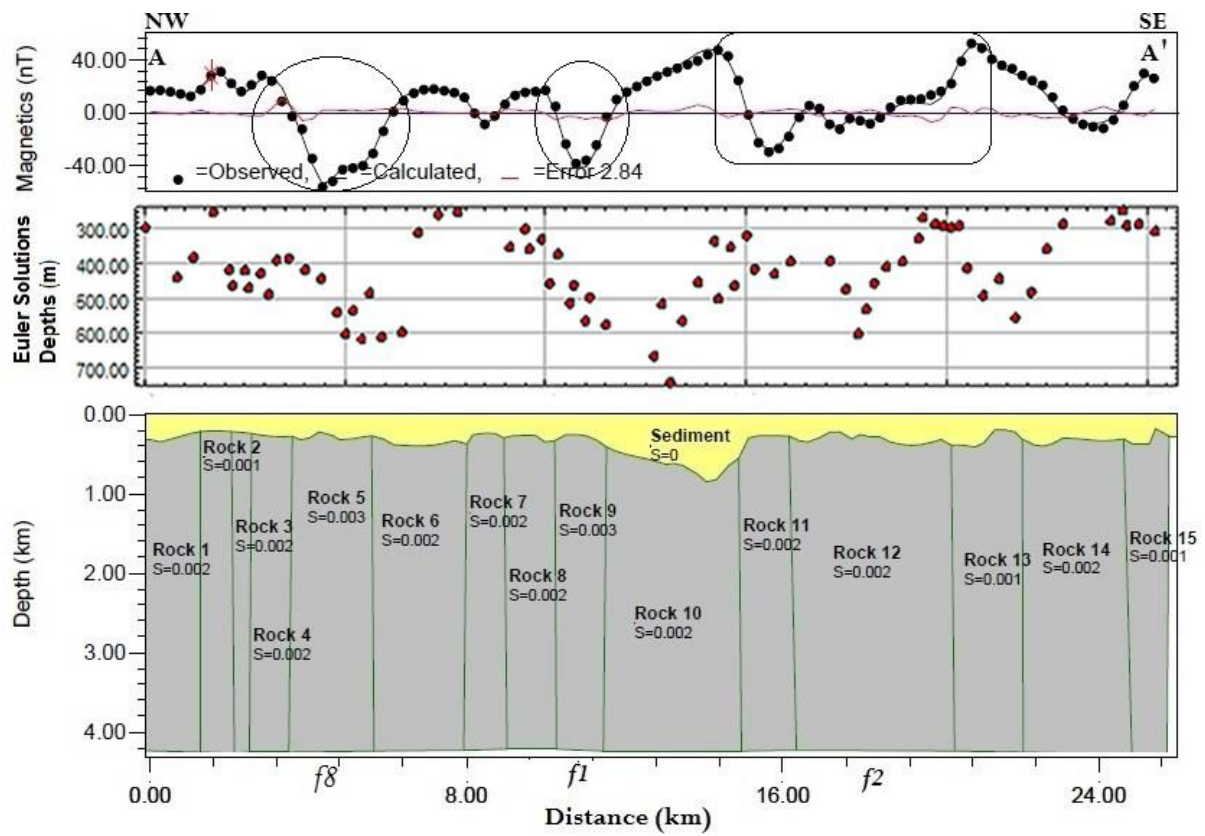


Figure 13: Geological model along profile A-A'



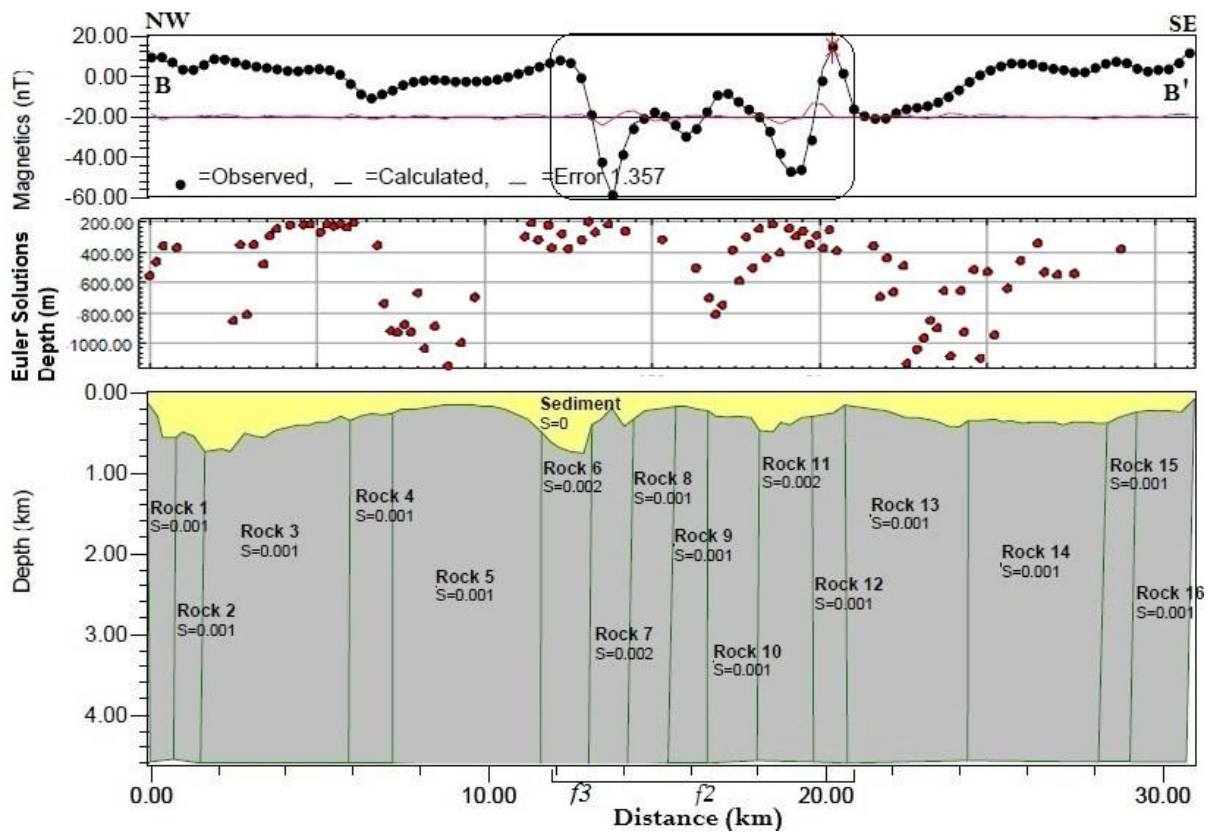


Figure 14: Geological model along profile B-B'

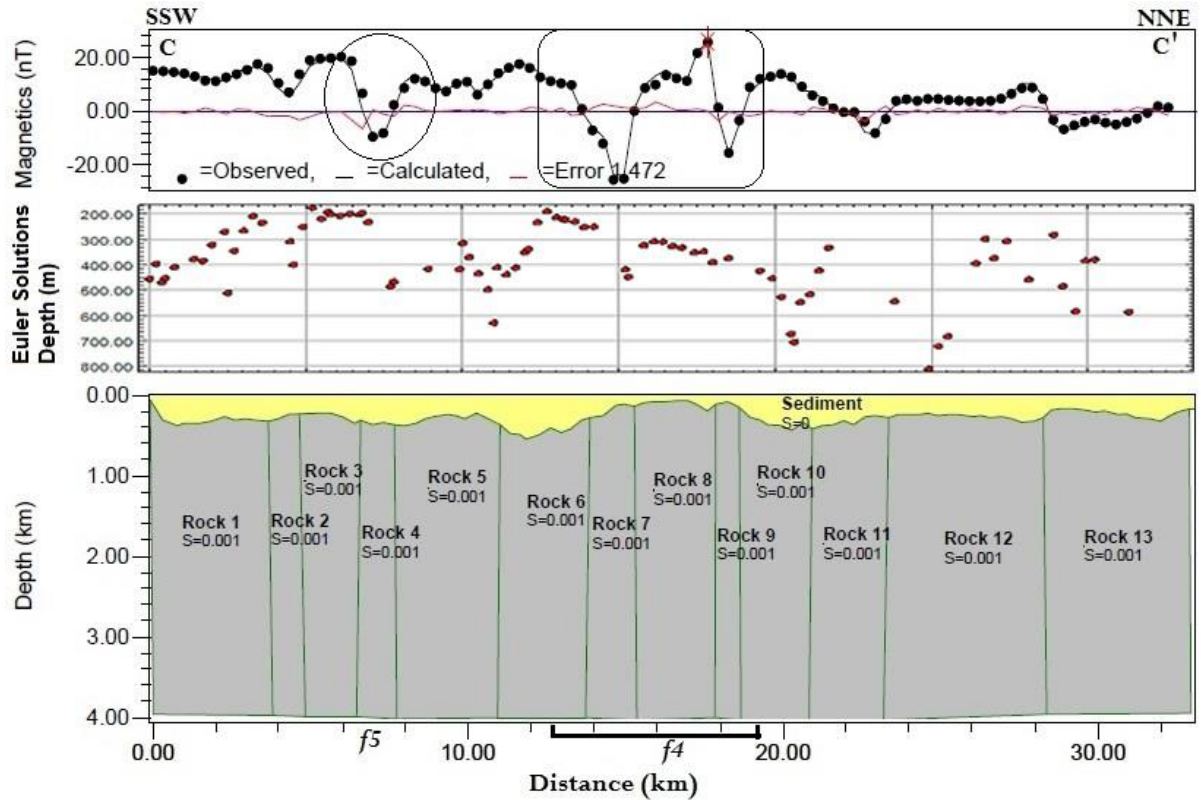


Figure 15: Geological model along profile C-C'

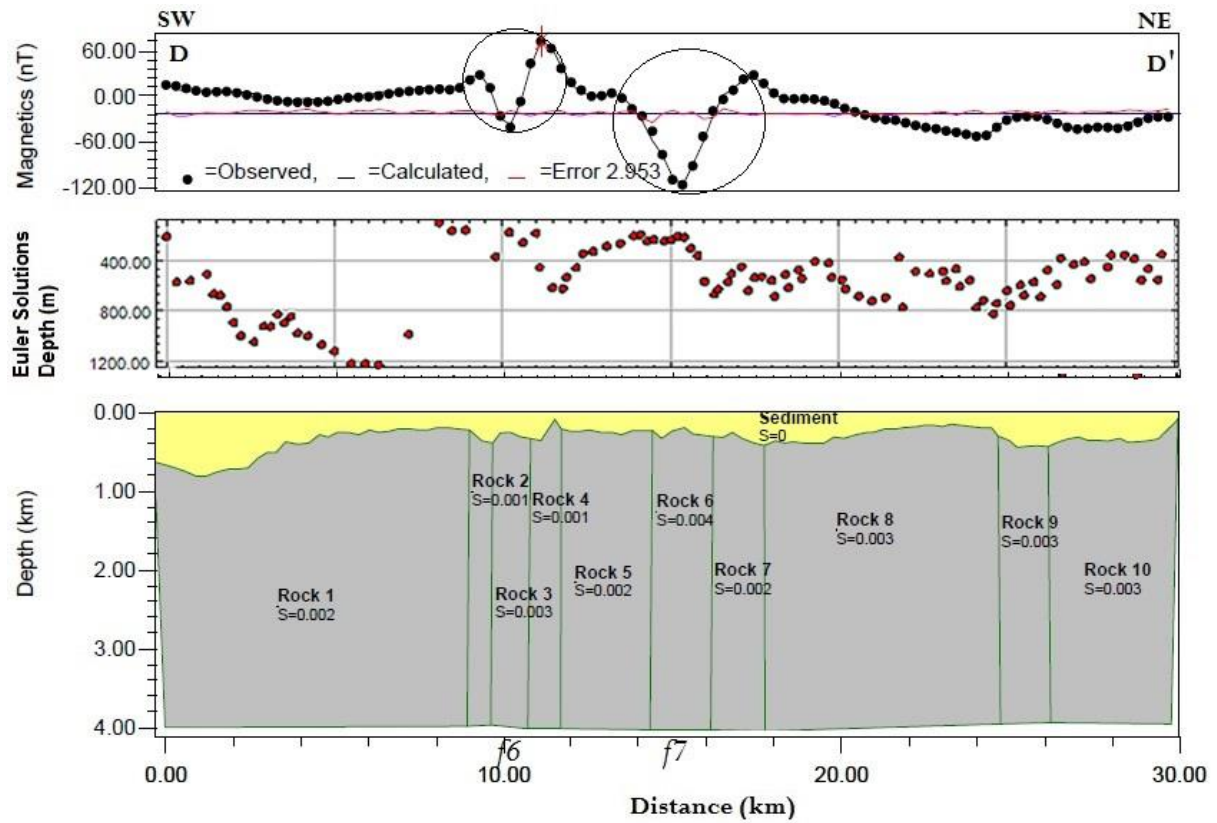


Figure 16: Geological model along profile D-D'

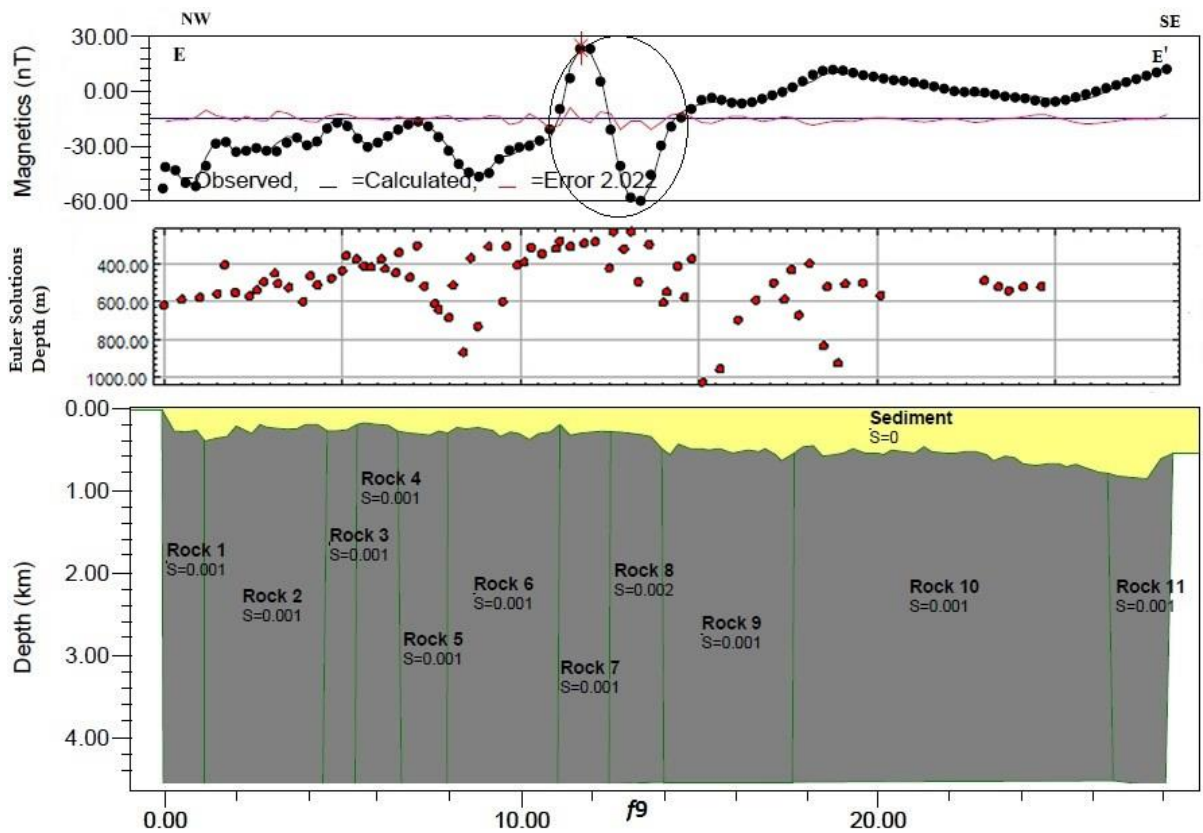


Figure 17: Geological model along profile E-E'



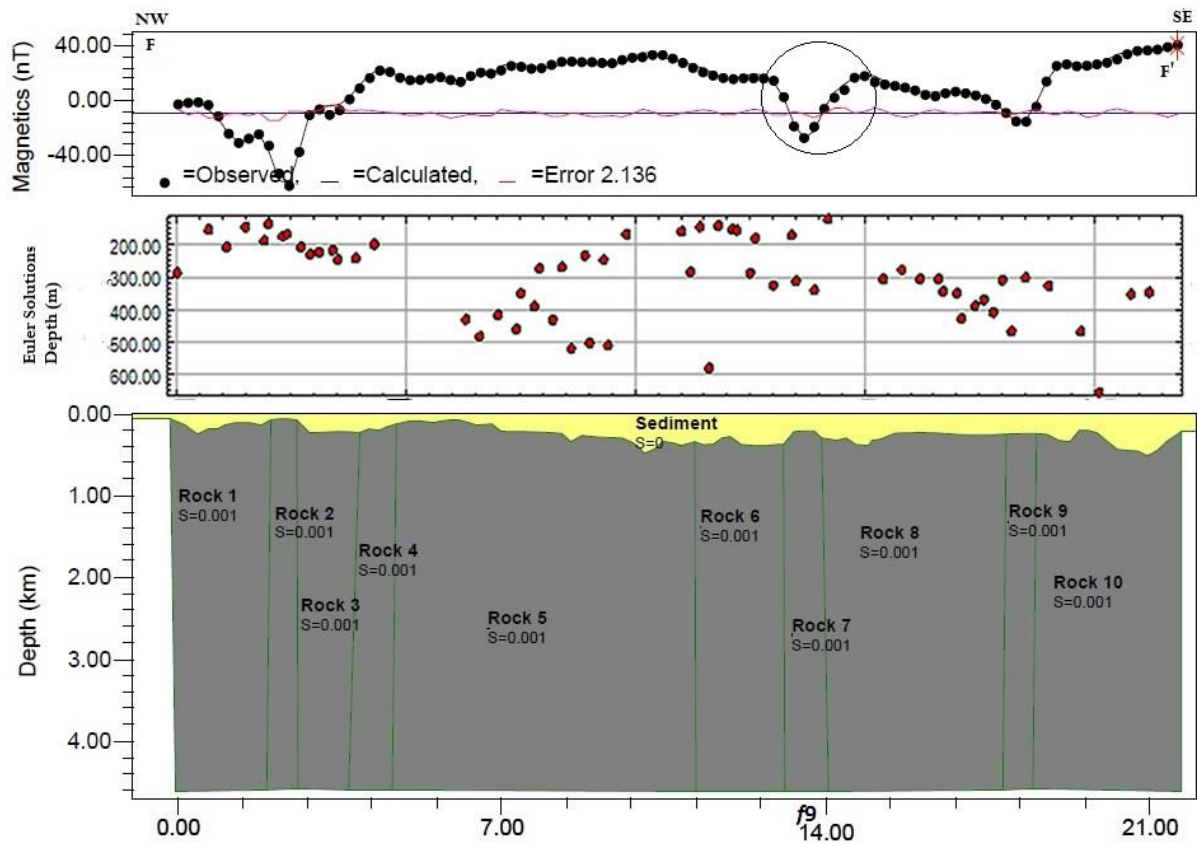


Figure 18: Geological model along profile F-F'

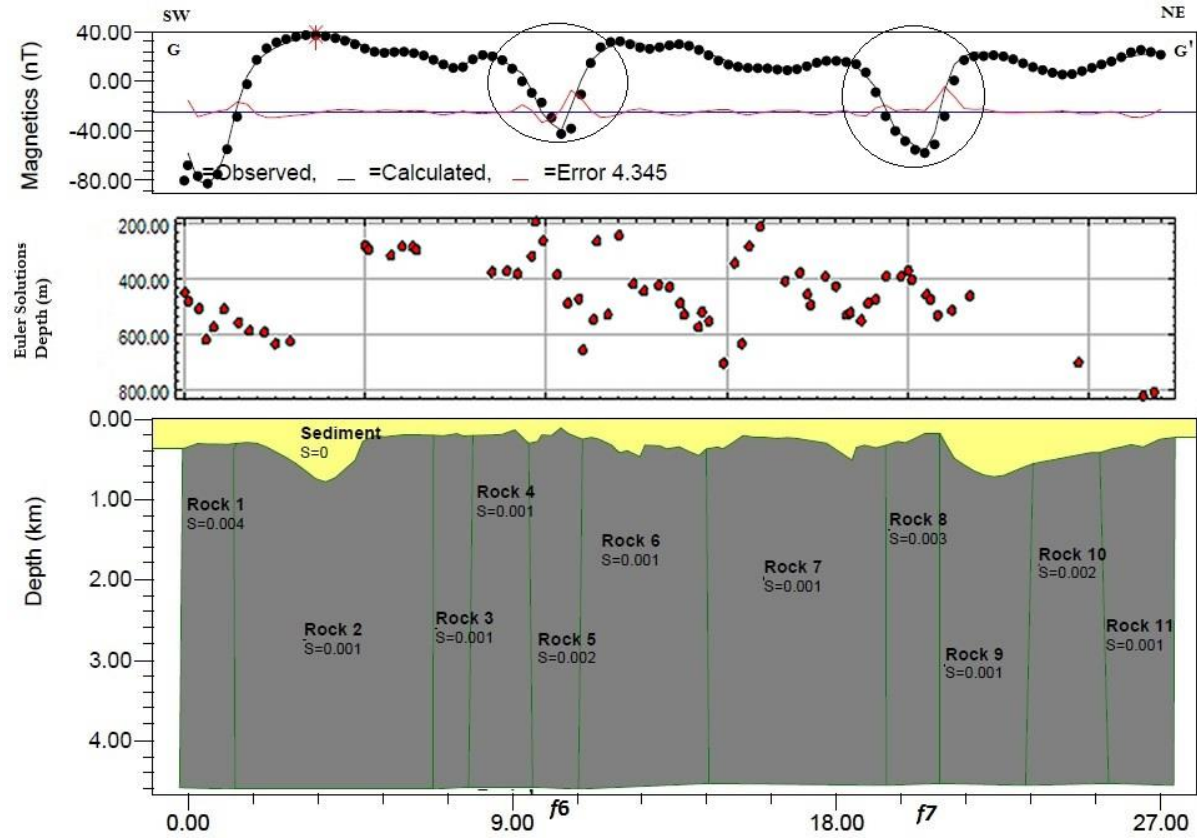


Figure 19: Geological model along profile G-G'

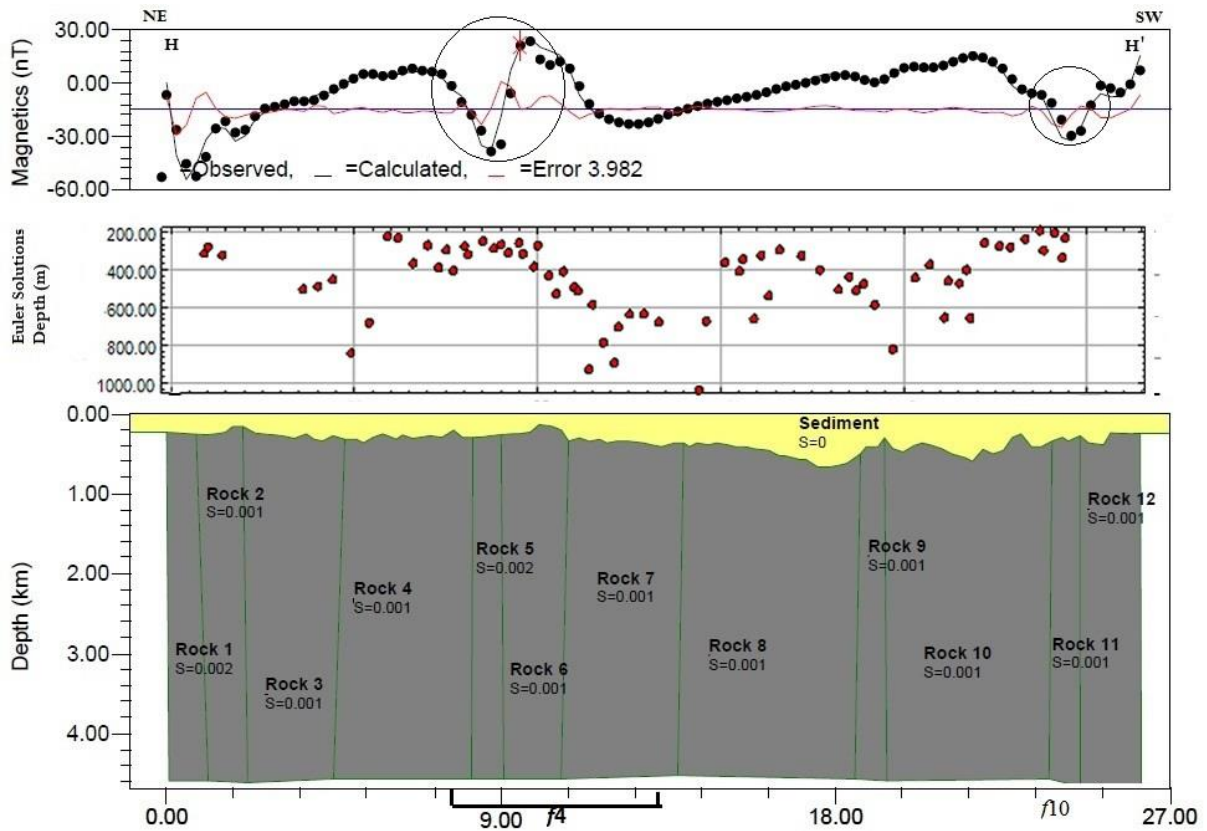


Figure 20: Geological model along profile H-H'

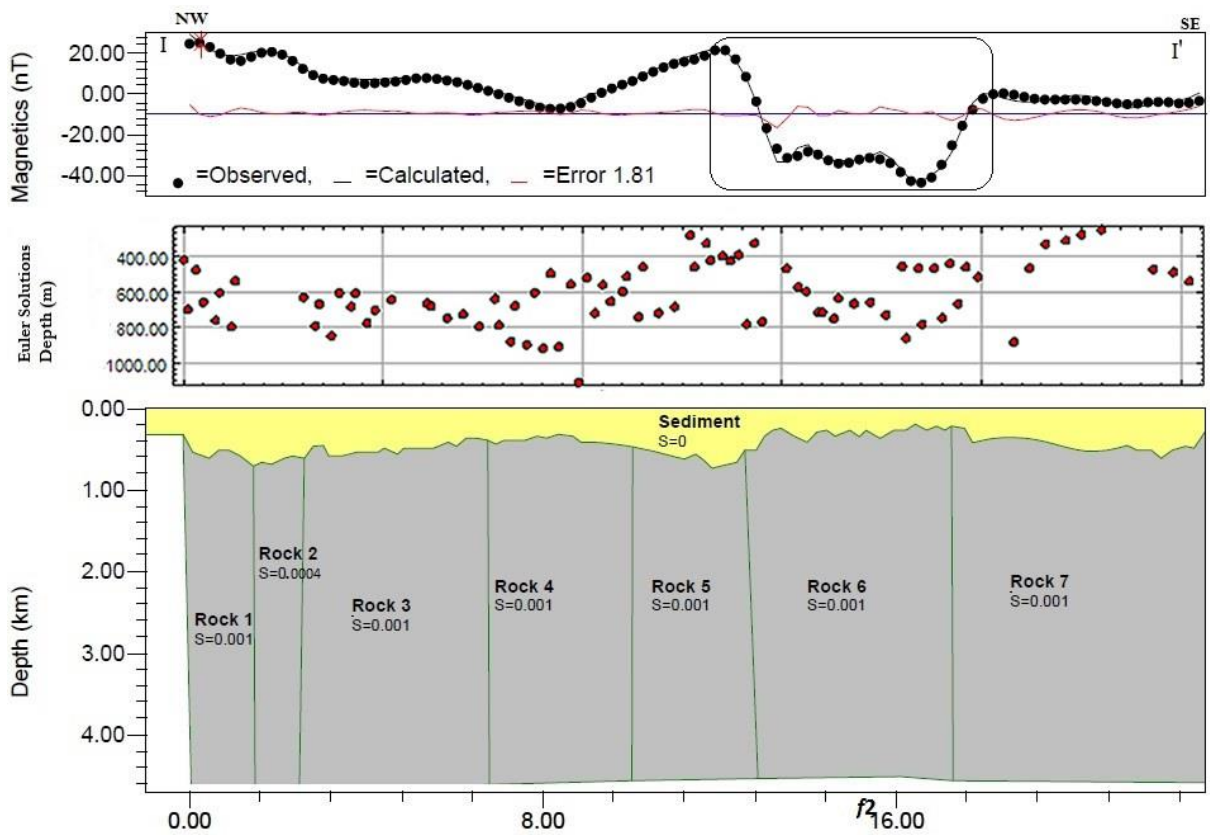


Figure 21: Geological model along profile I-I'

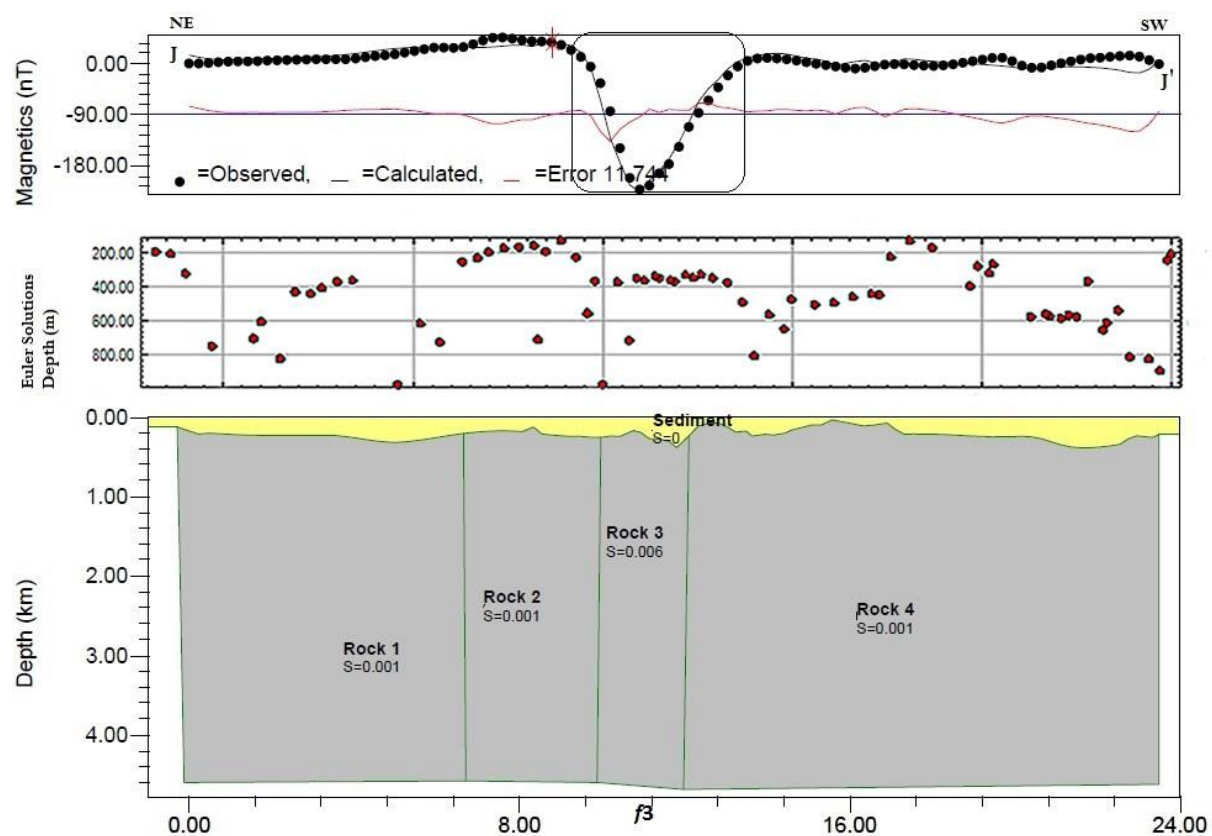


Figure 22: Geological model along profile J-J'