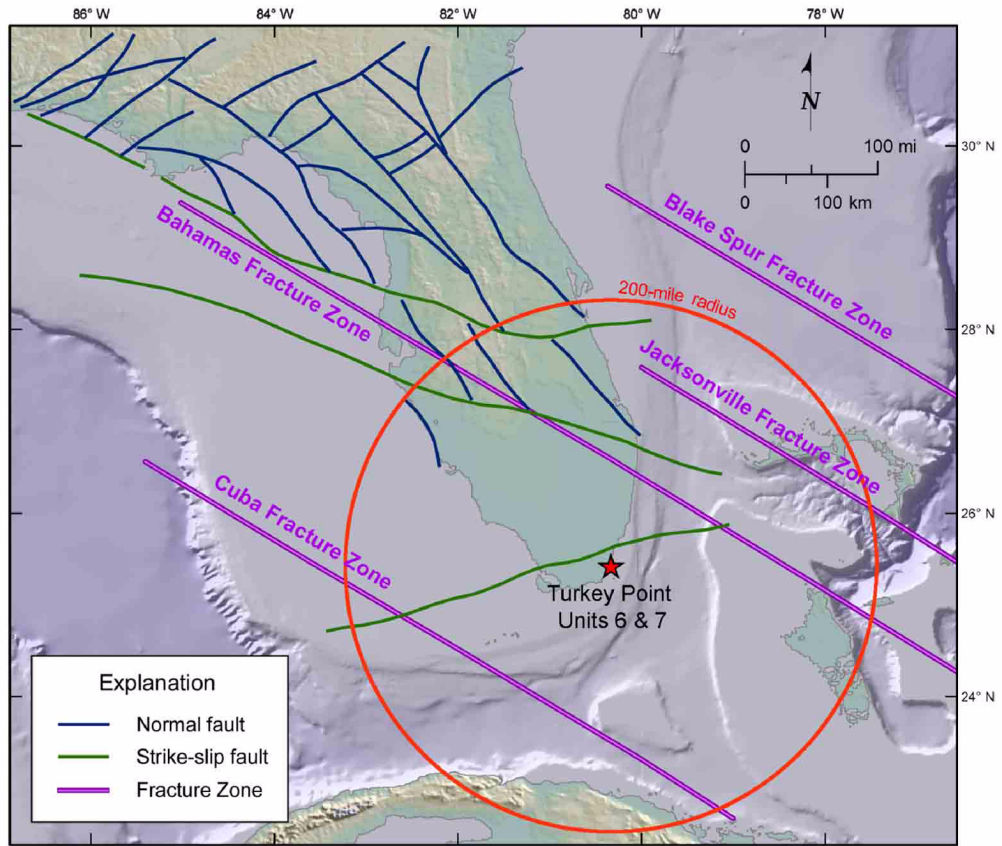


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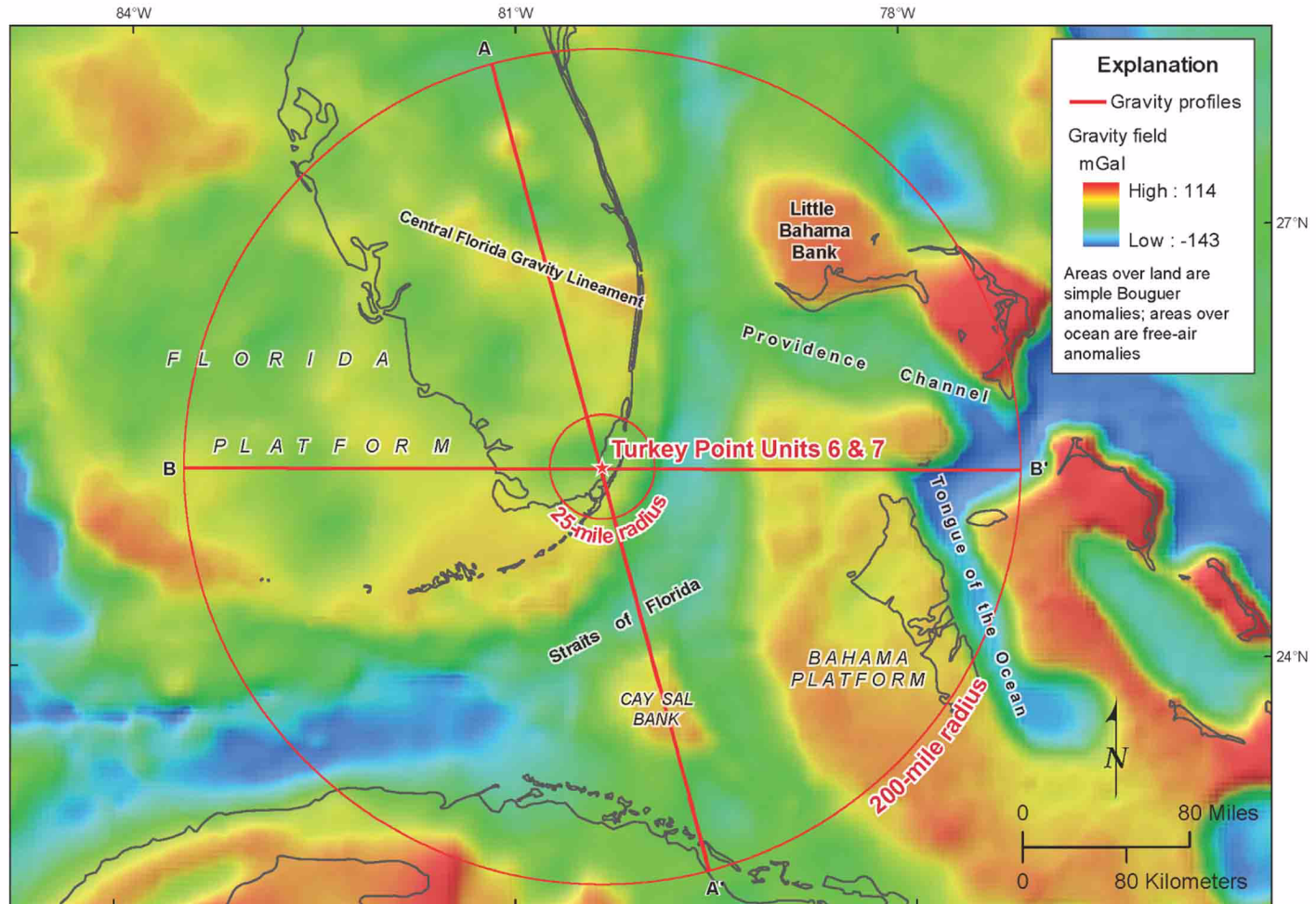
Figure 2.5.1-253 Basement Faults of Florida Platform



Modified from: [References 212](#) and [458](#)

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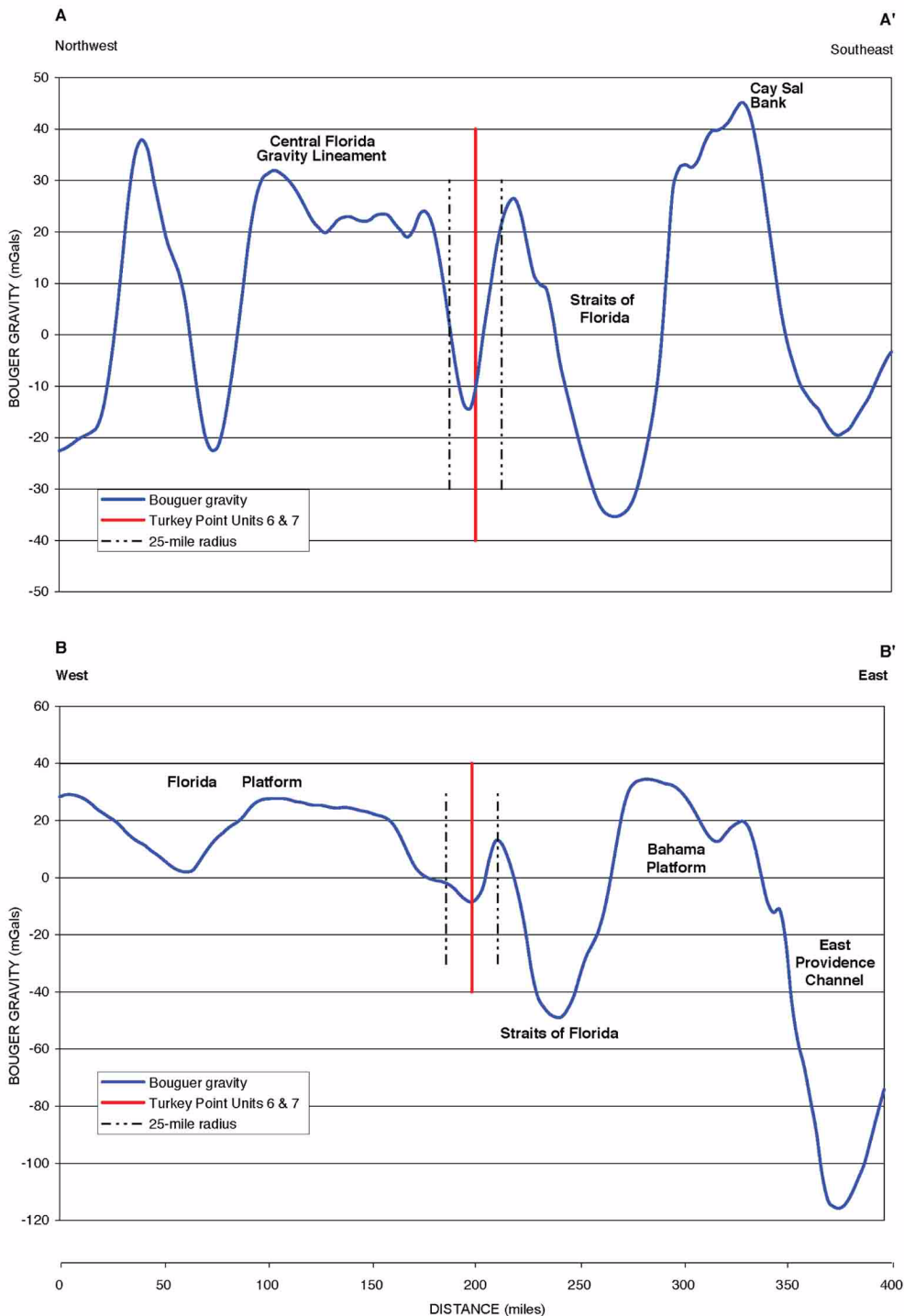
Figure 2.5.1-254 Gravity Field for the Site Region



Note: Gravity includes Bouguer over land and free-air over water.
Source of Bouguer gravity information: [References 452 and 453](#)
Source of physiographic features: [Reference 409](#)

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Figure 2.5.1-255 Gravity Profile A–A' and B–B'

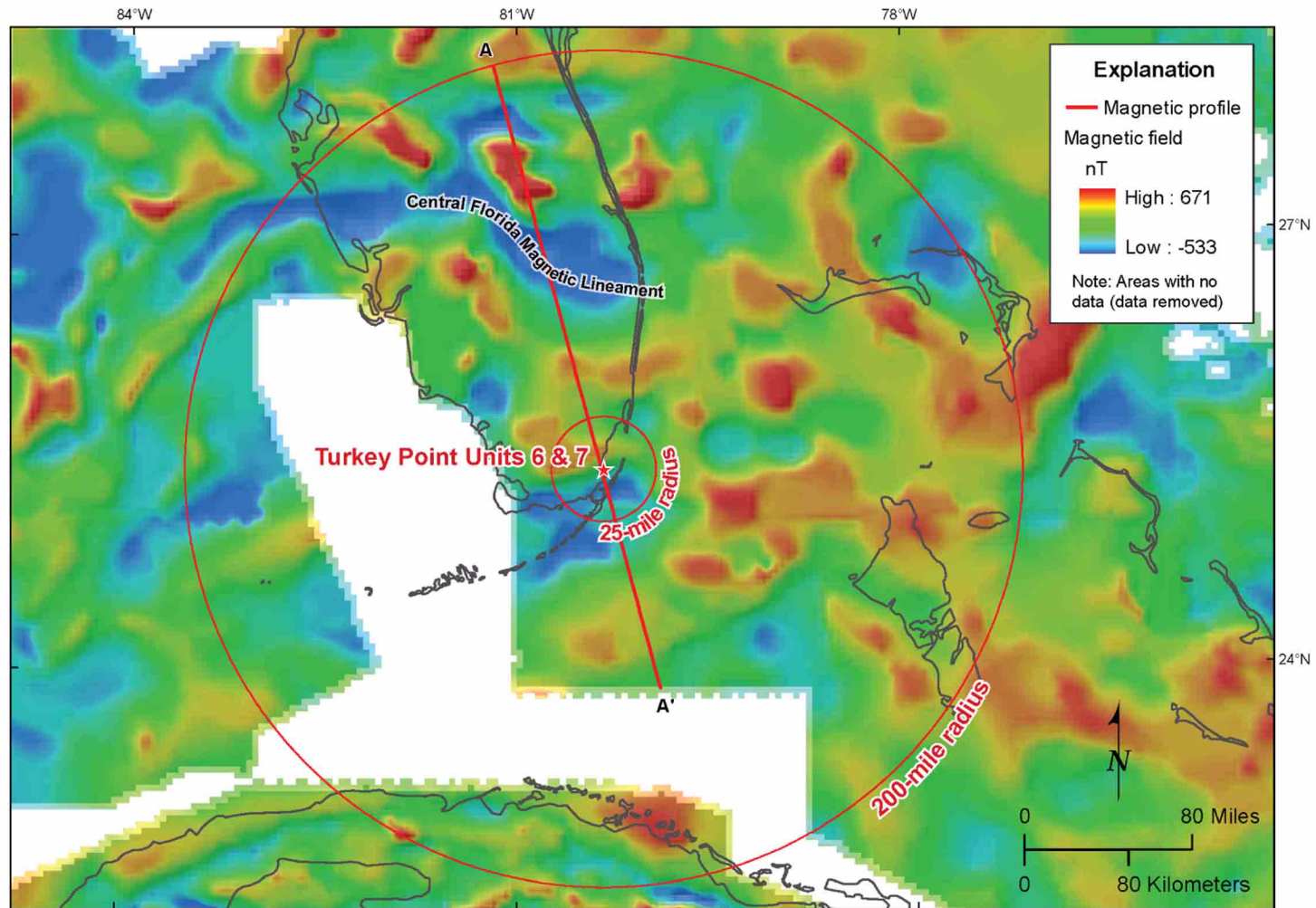


Notes:

- Gravity includes Bouguer over land and free-air over water
- Physiographic features adapted from Reference 307

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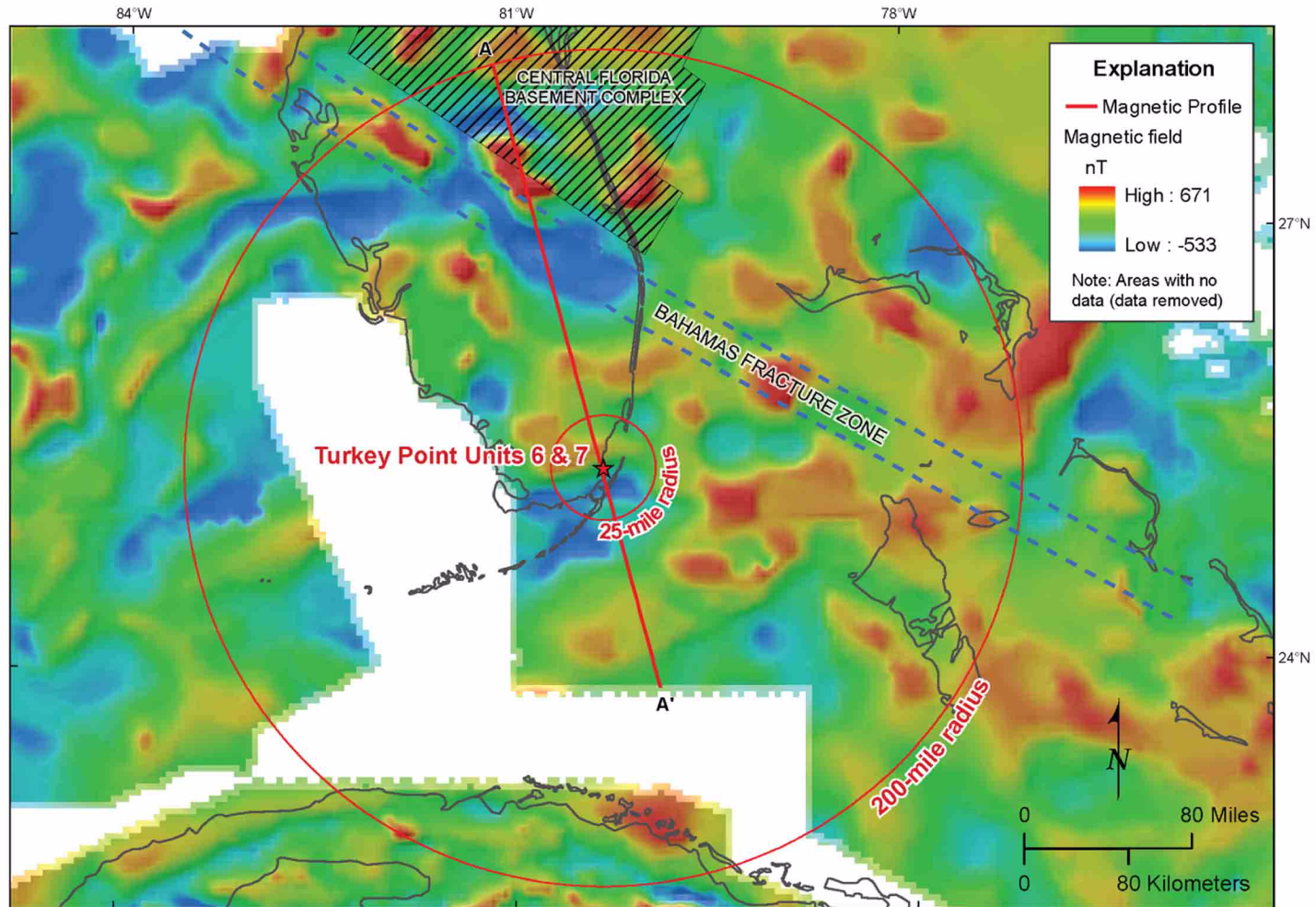
Figure 2.5.1-256 Magnetic Field for the Site Region



Source of basement complex and Bahama faults: [Reference 212](#)

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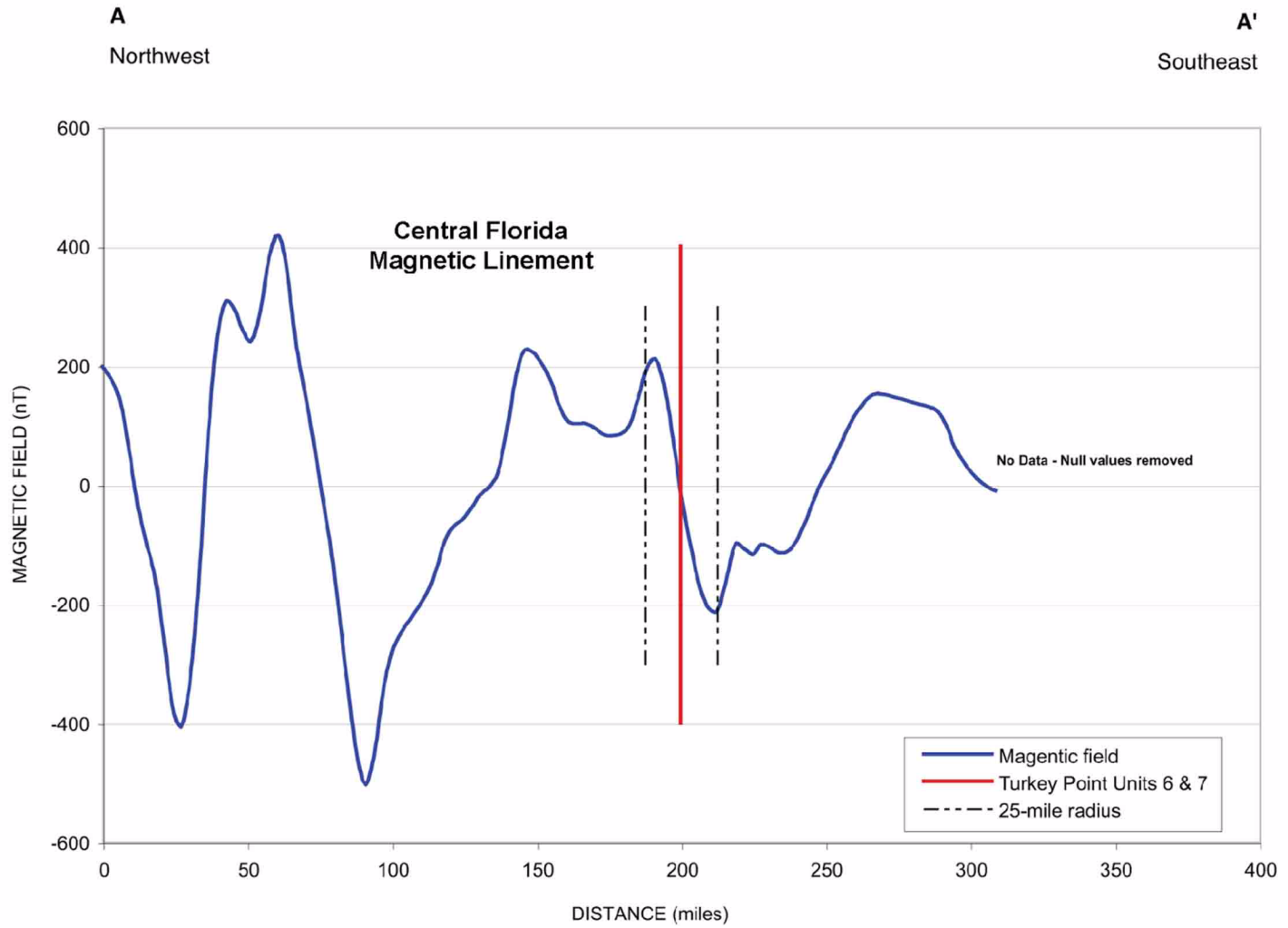
Figure 2.5.1-257 Regional Magnetic Field Annotated with Locations of the Central Florida Basement Complex and Bahama Fracture Zone



Source of magnetic information: [References 452 and 453](#)
Source of basement complex and Bahama faults: [Reference 212](#)

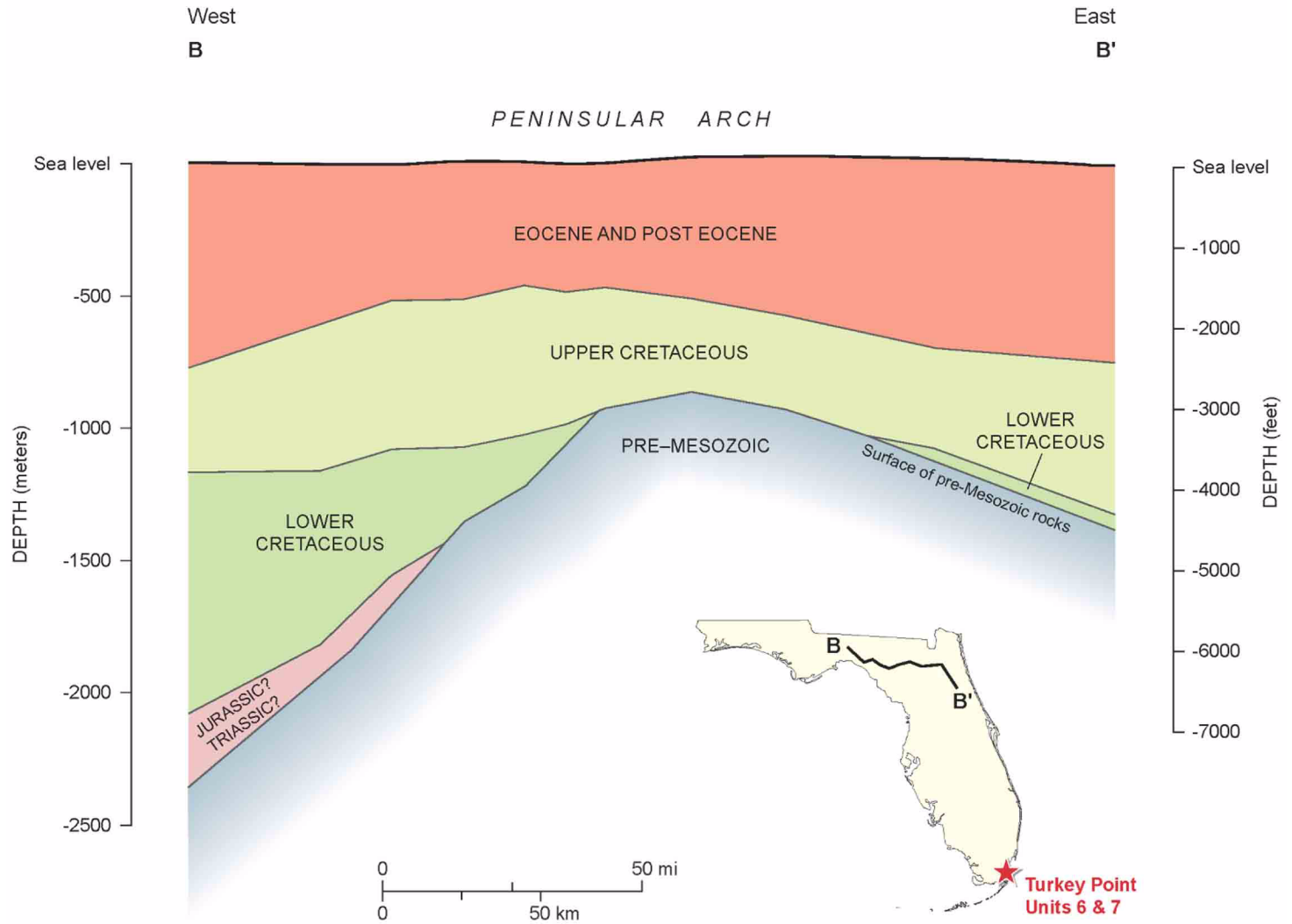
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Figure 2.5.1-258 Magnetic Profile A-A'



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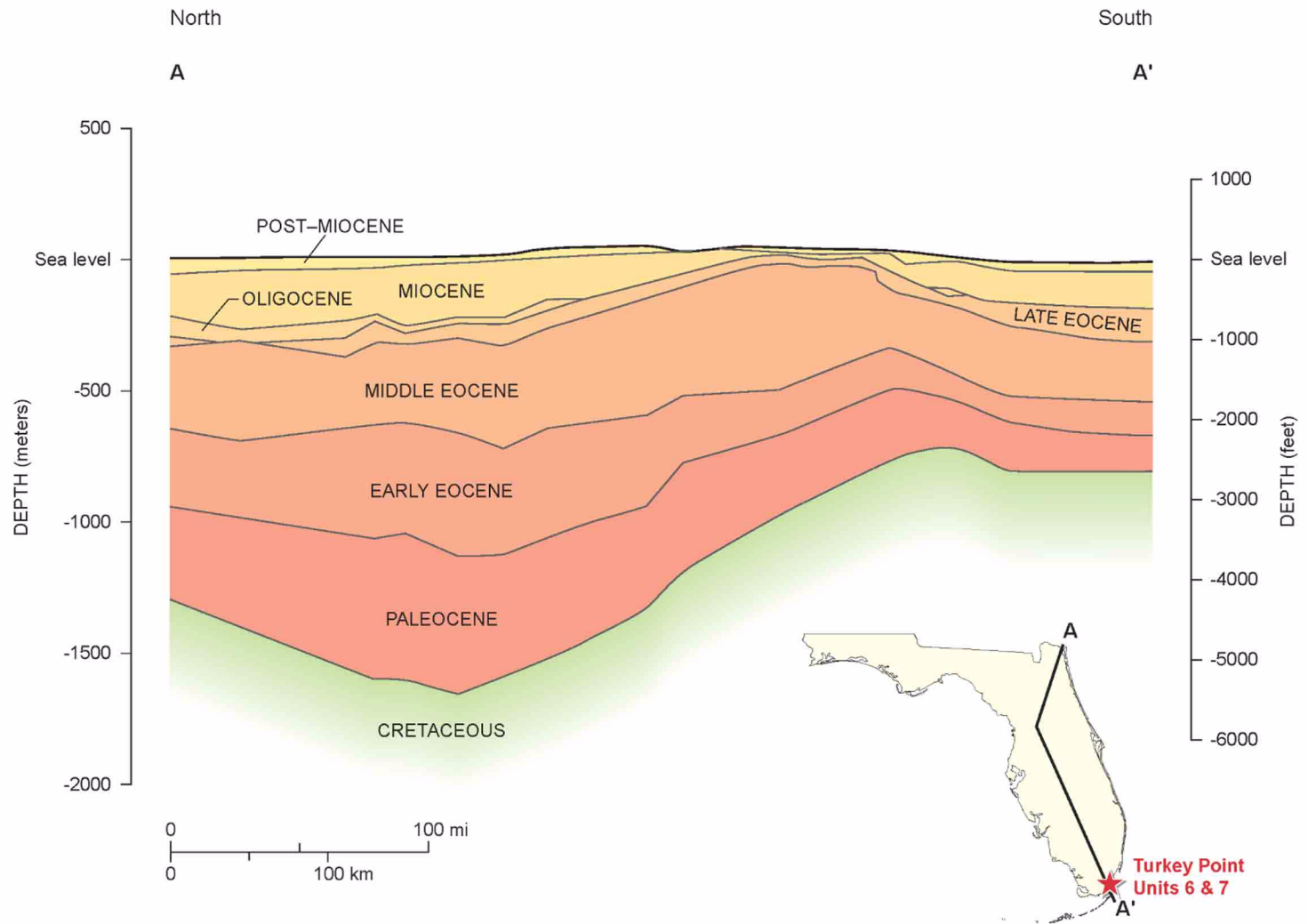
Figure 2.5.1-259 Generalized West-East Cross Section across Northern Florida



Source: Reference 388

Turkey Point Units 6 & 7
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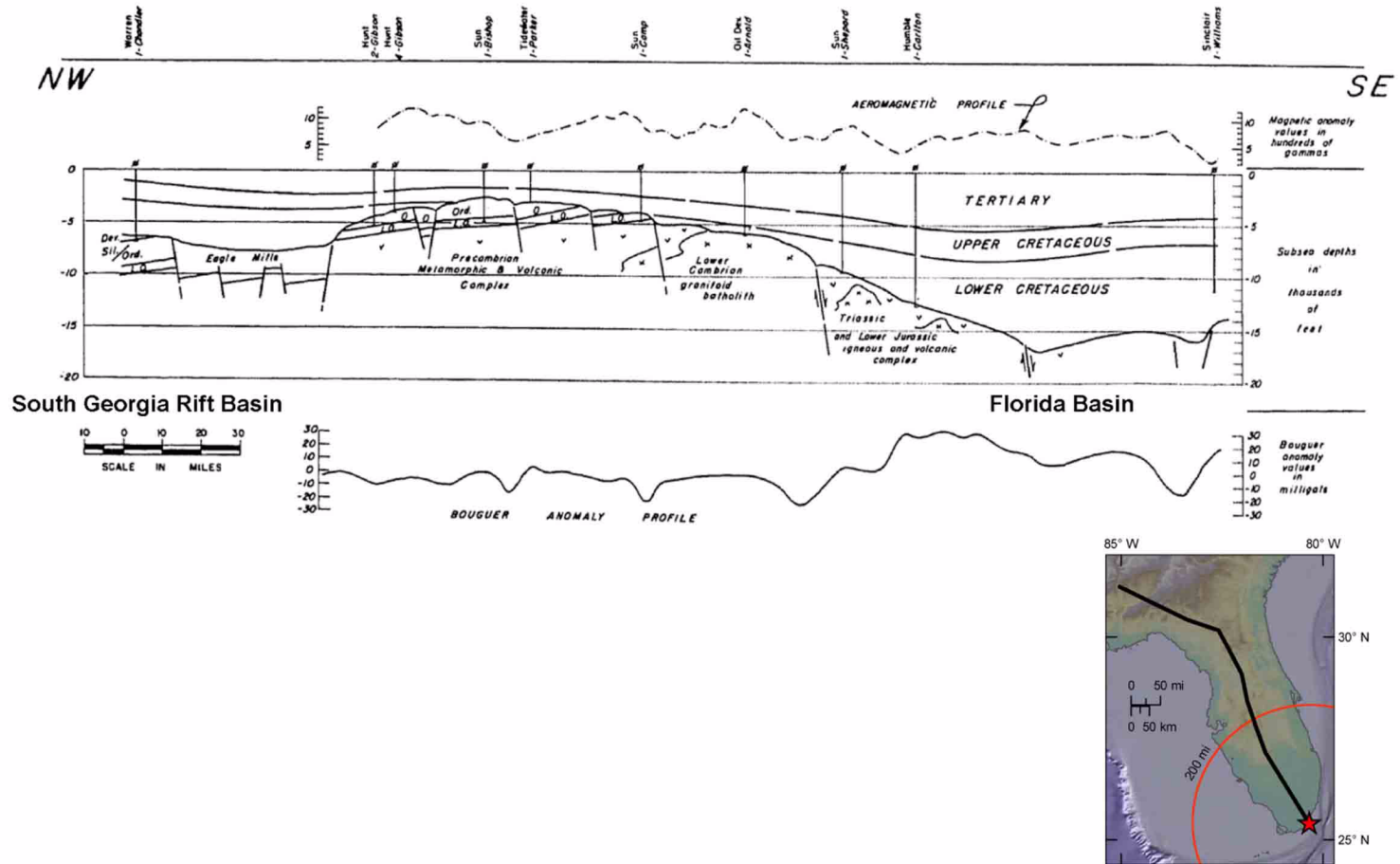
Figure 2.5.1-260 Cretaceous and Younger Strata North-South Geologic Cross Section of Florida



Source: Reference 388

Turkey Point Units 6 & 7
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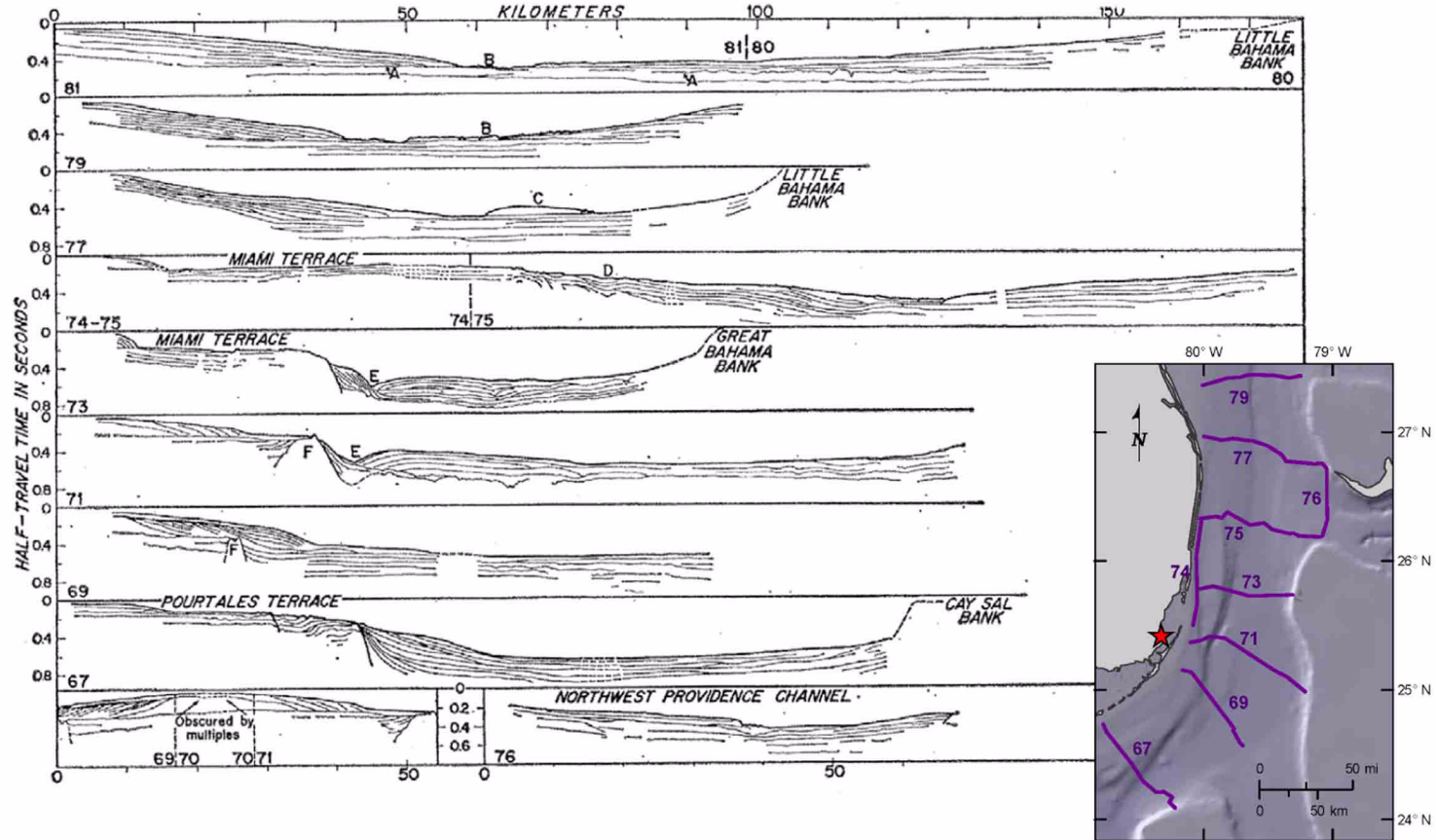
Figure 2.5.1-261 Cross Section of Florida Platform



Modified from: Reference 458

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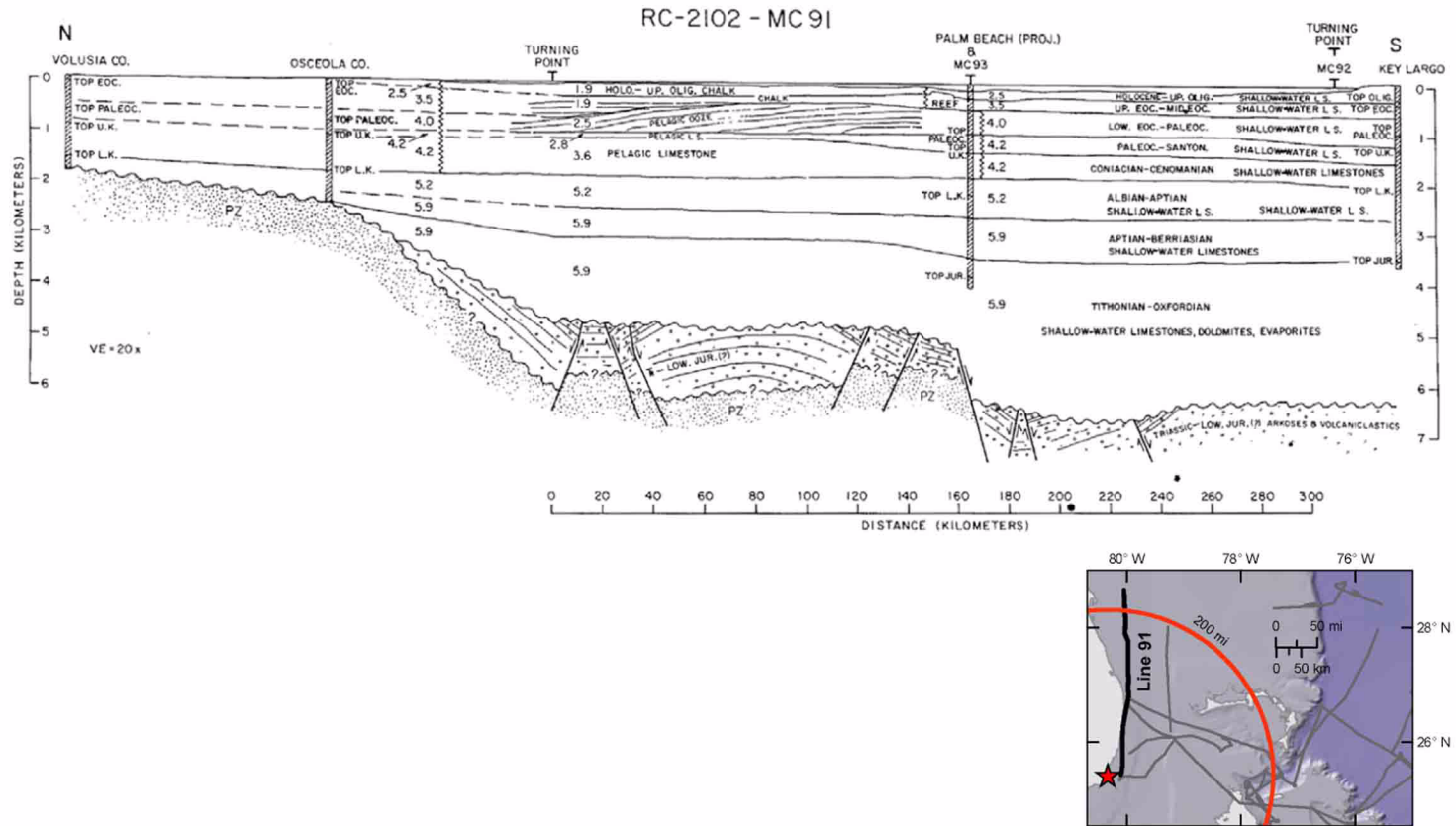
Figure 2.5.1-262 Seismic Line Interpretations across the Straits of Florida



Modified from: [Reference 790](#)

Turkey Point Units 6 & 7
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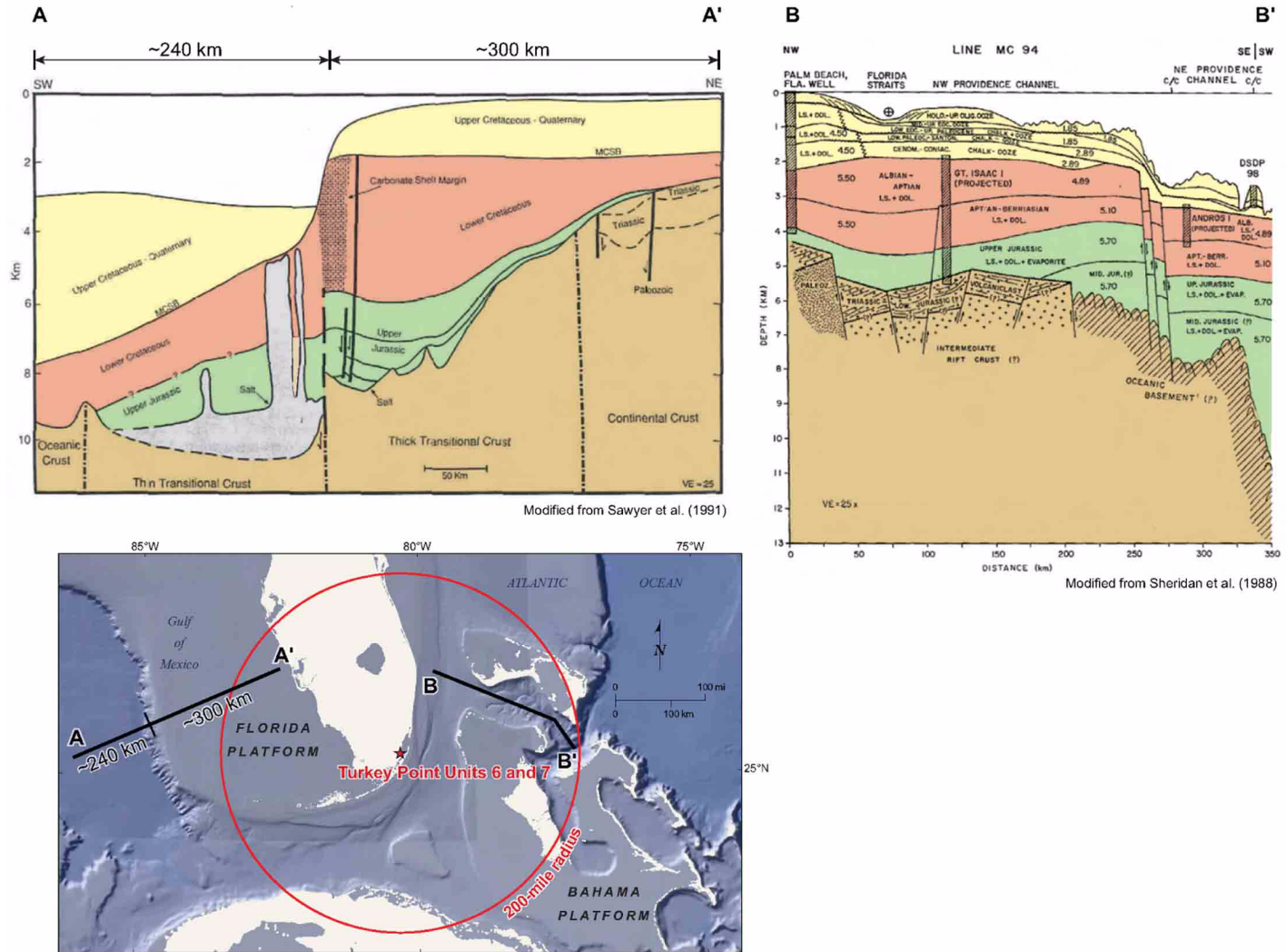
Figure 2.5.1-263 Interpretation of Seismic Line and Well Correlation, Straits of Florida



Modified from: Reference 307

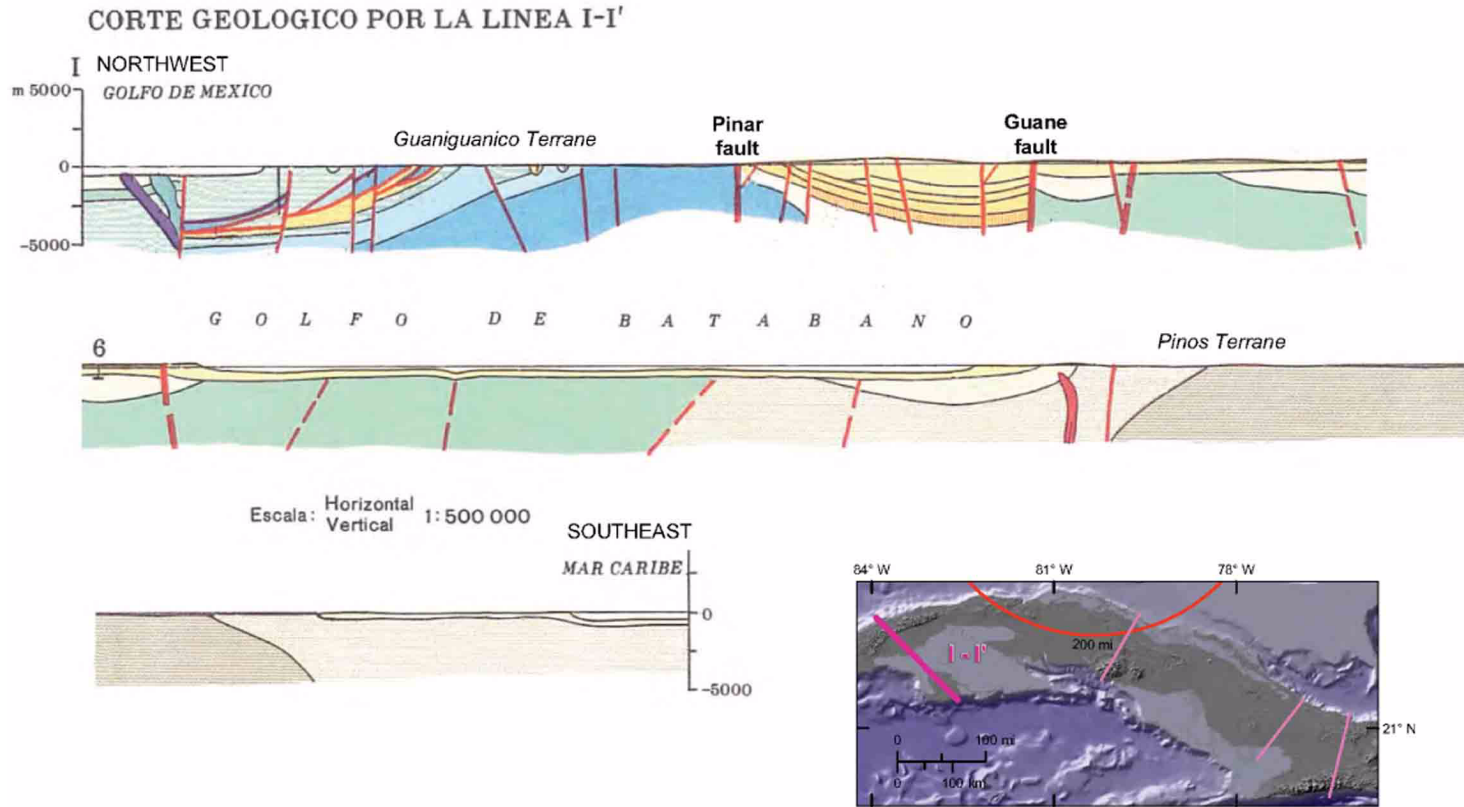
Turkey Point Units 6 & 7
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Figure 2.5.1-264 Generalized Cross Sections, from Gulf of Mexico to Bahama Platform



Modified from: References 307 and 410

Figure 2.5.1-265 Geologic Cross Section of Cuba (Sheet 1 of 5)

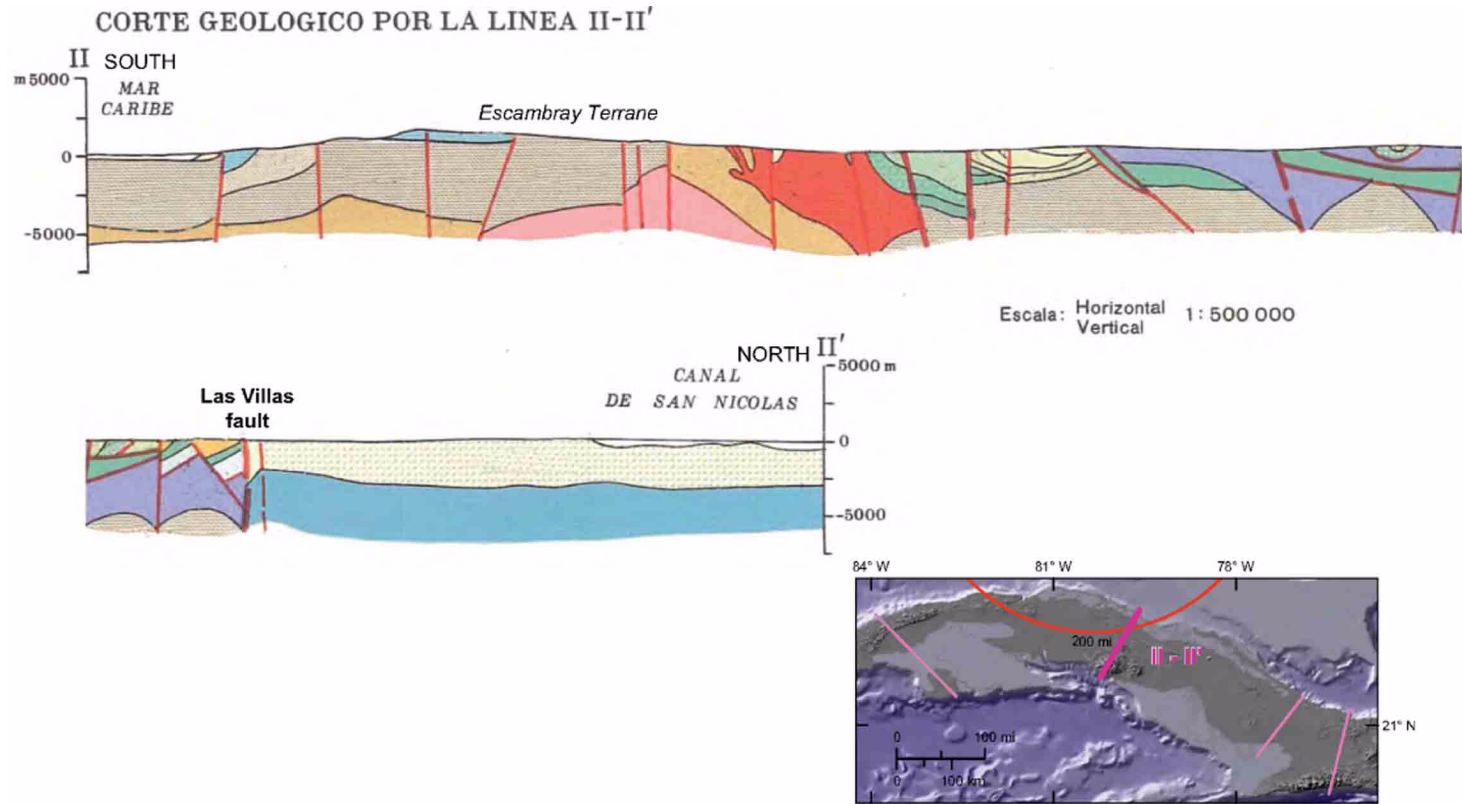


Modified from: Reference 848

Geologic Cross Section Line I-I'

Turkey Point Units 6 & 7
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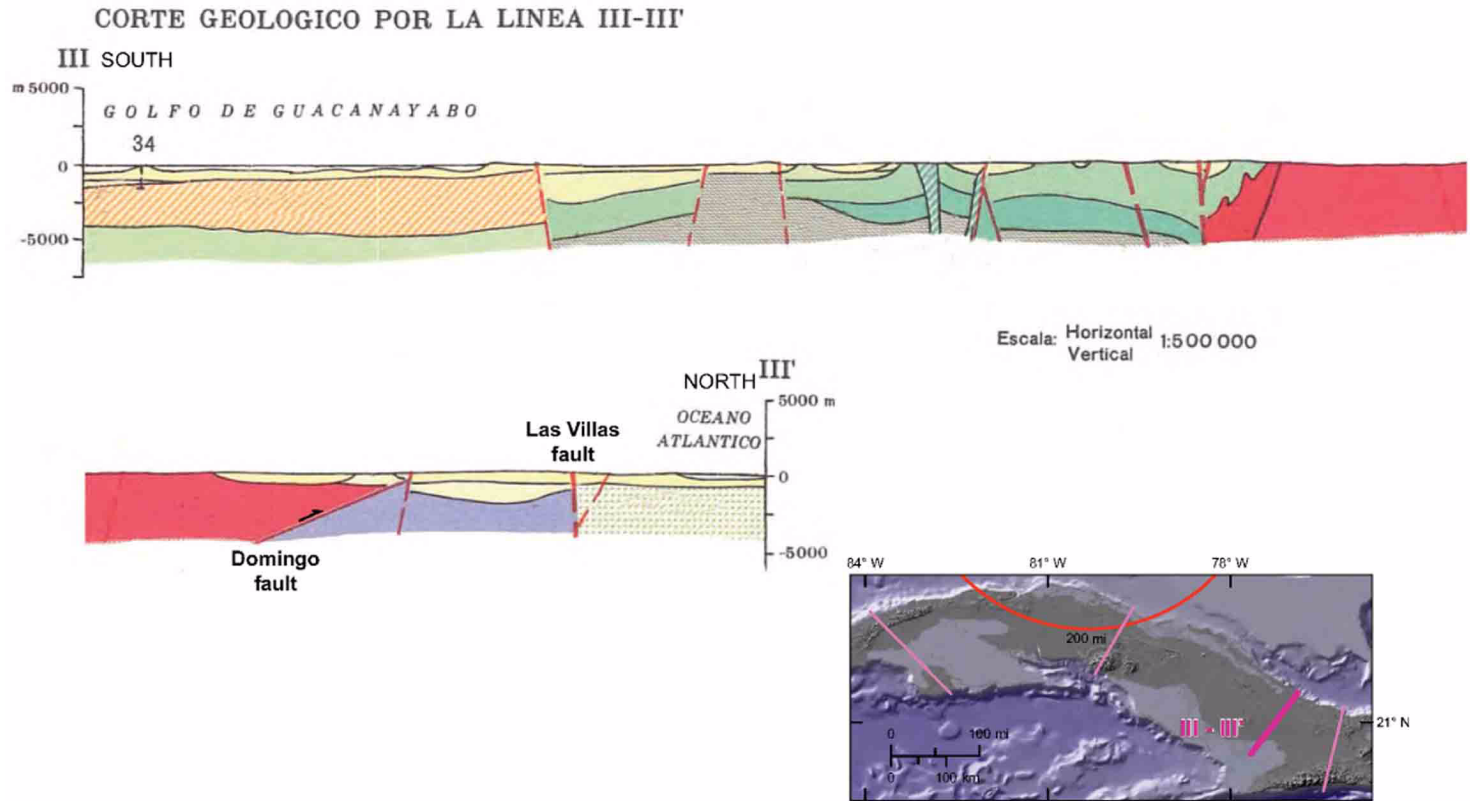
Figure 2.5.1-265 Geologic Cross Section of Cuba (Sheet 2 of 5)



Modified from: Reference 848

Geologic Cross Section Line II-II'

Figure 2.5.1-265 Geologic Cross Section of Cuba (Sheet 3 of 5)

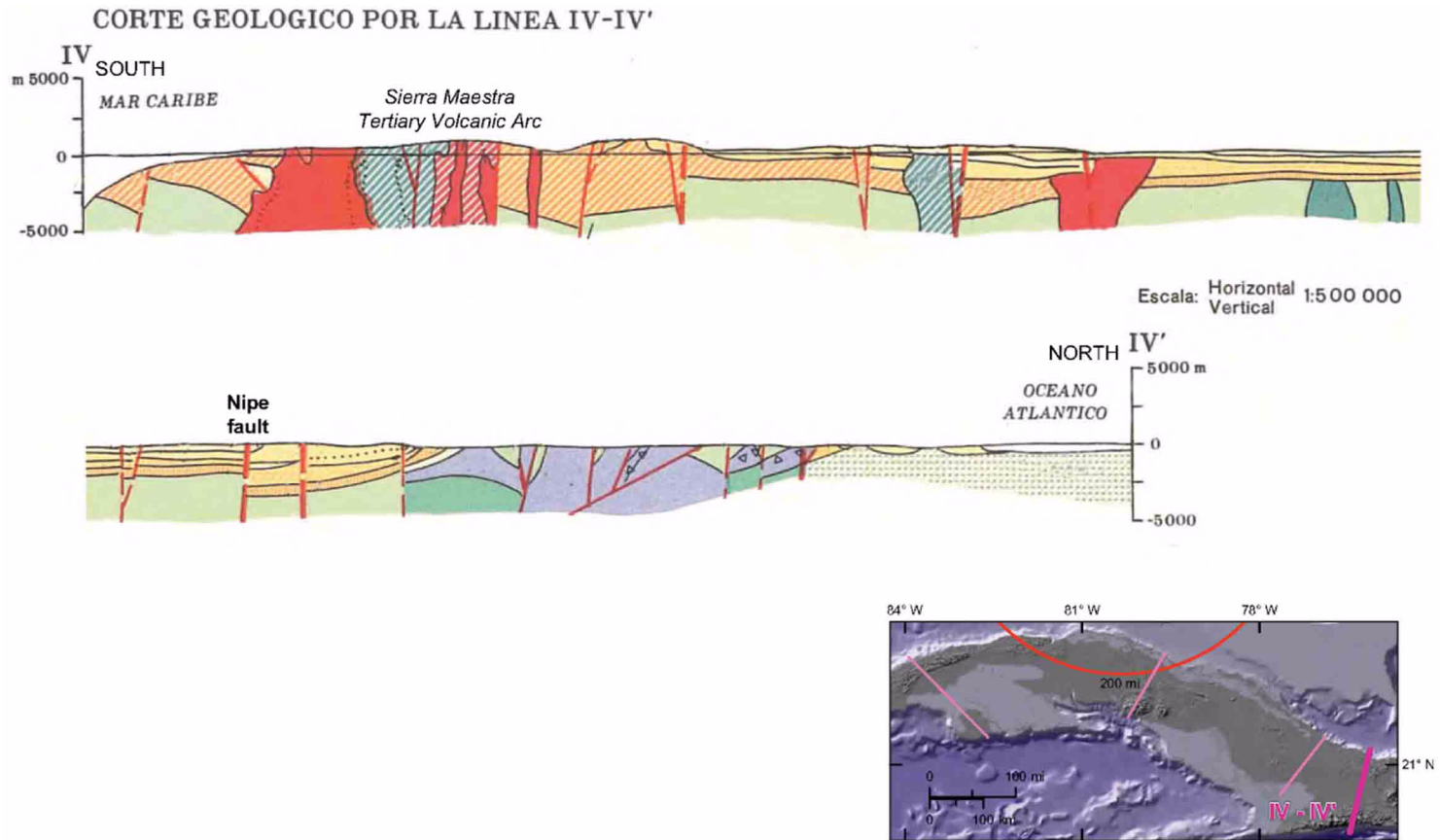


Modified from: Reference 848

Geologic Cross Section Line III-III'

Turkey Point Units 6 & 7
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Figure 2.5.1-265 Geologic Cross Section of Cuba (Sheet 4 of 5)

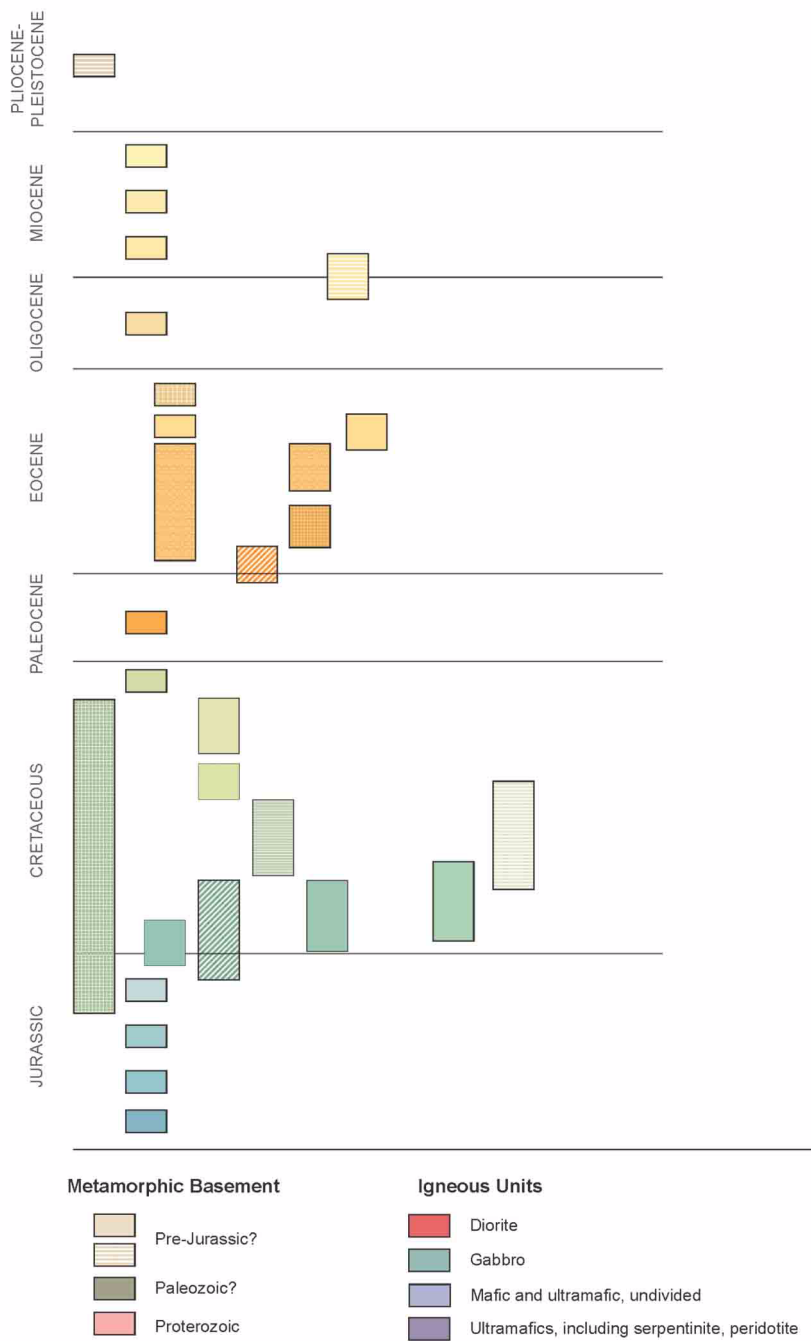


Modified from: Reference 848

Geologic Cross Section Line IV-IV'

Turkey Point Units 6 & 7
 COL Application
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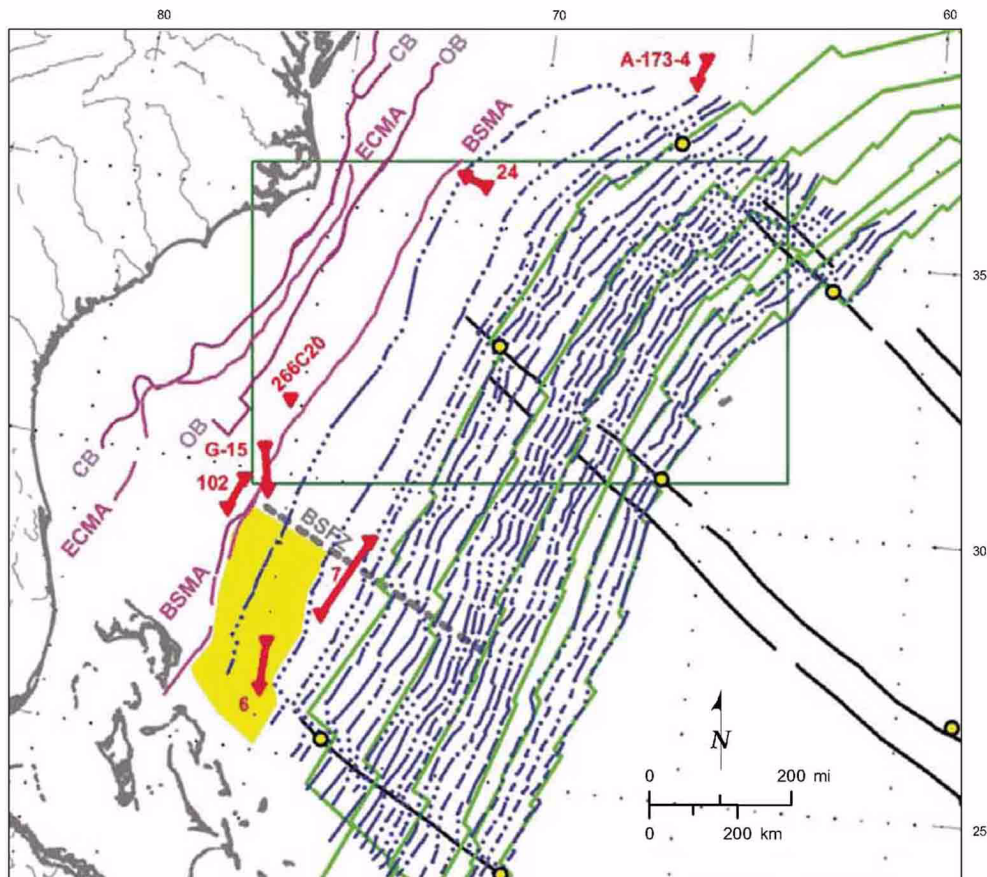
Figure 2.5.1-265 Geologic Cross Section of Cuba (Sheet 5 of 5)



Modified from: [Reference 848](#)

Simplified Legend for Cuban Cross Sections

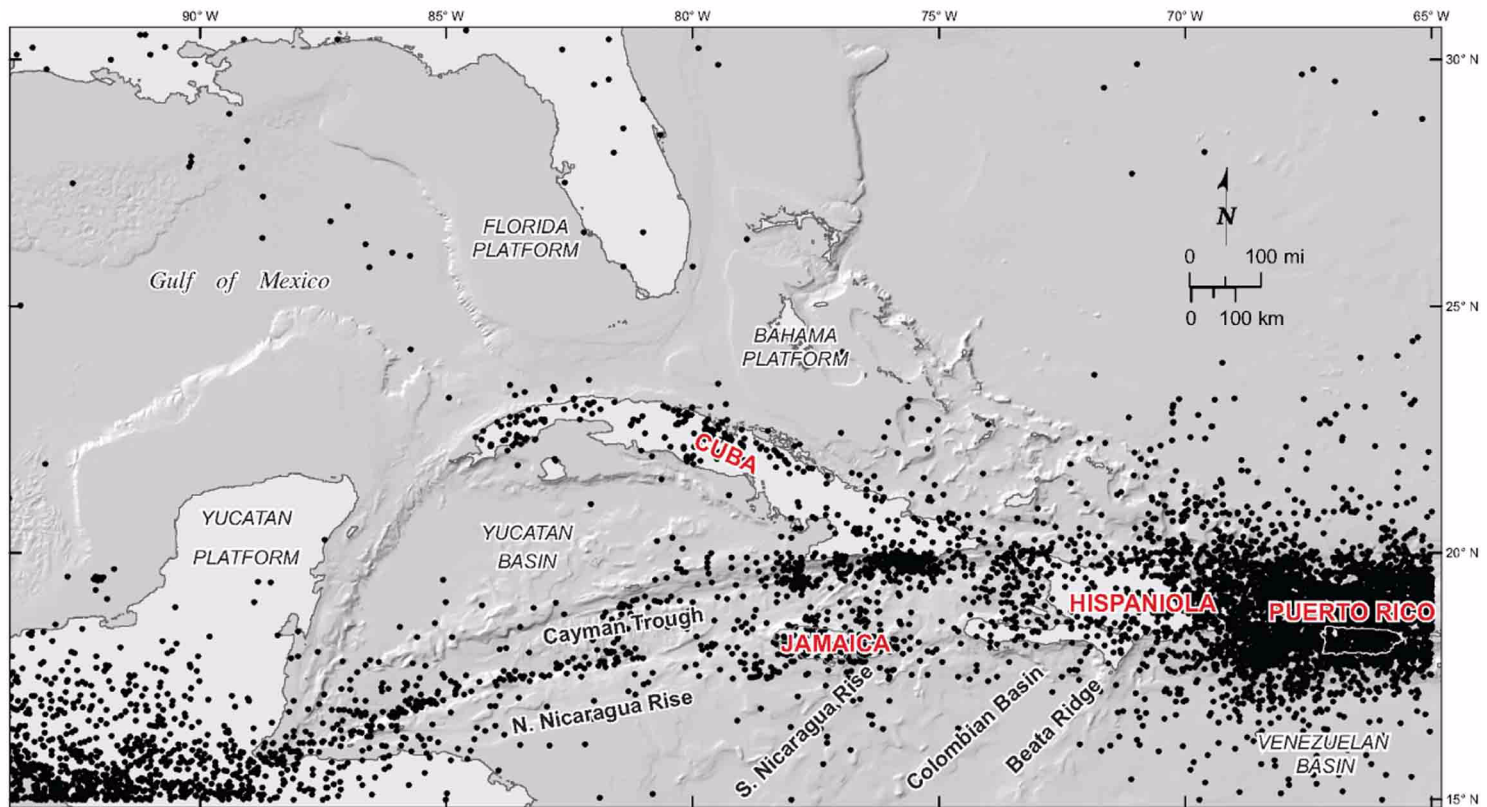
Figure 2.5.1-266 Magnetic Reversal Map of Oceanic Crust and Fracture Zones East of Bahama Platform



Notes: Fracture zones (thick black) and geomagnetic isochrons—North America. Chrons mapped by Reference 466 are blue; global Chrons are green. Control points used for plate reconstructions are located at the intersections of fracture zones, and isochrons are yellow circles. Inverted red triangles and heavy red lines are locations of refraction data that indicate oceanic crust. The East Coast Magnetic Anomaly (ECMA) and the Blake Spur Magnetic Anomaly (BSMA) are subparallel to the coast (magenta). Dark-purple lines are the mappable limits of continental (CB) and oceanic crust (OB). The Blake Spur Fracture Zone (BSFZ) is indicated by heavy, dashed, light-gray line. Yellow shaded area corresponds to continental extension of the Blake Plateau. The magnetic anomaly correlation example is outlined by the green box.

Modified from: Reference 466

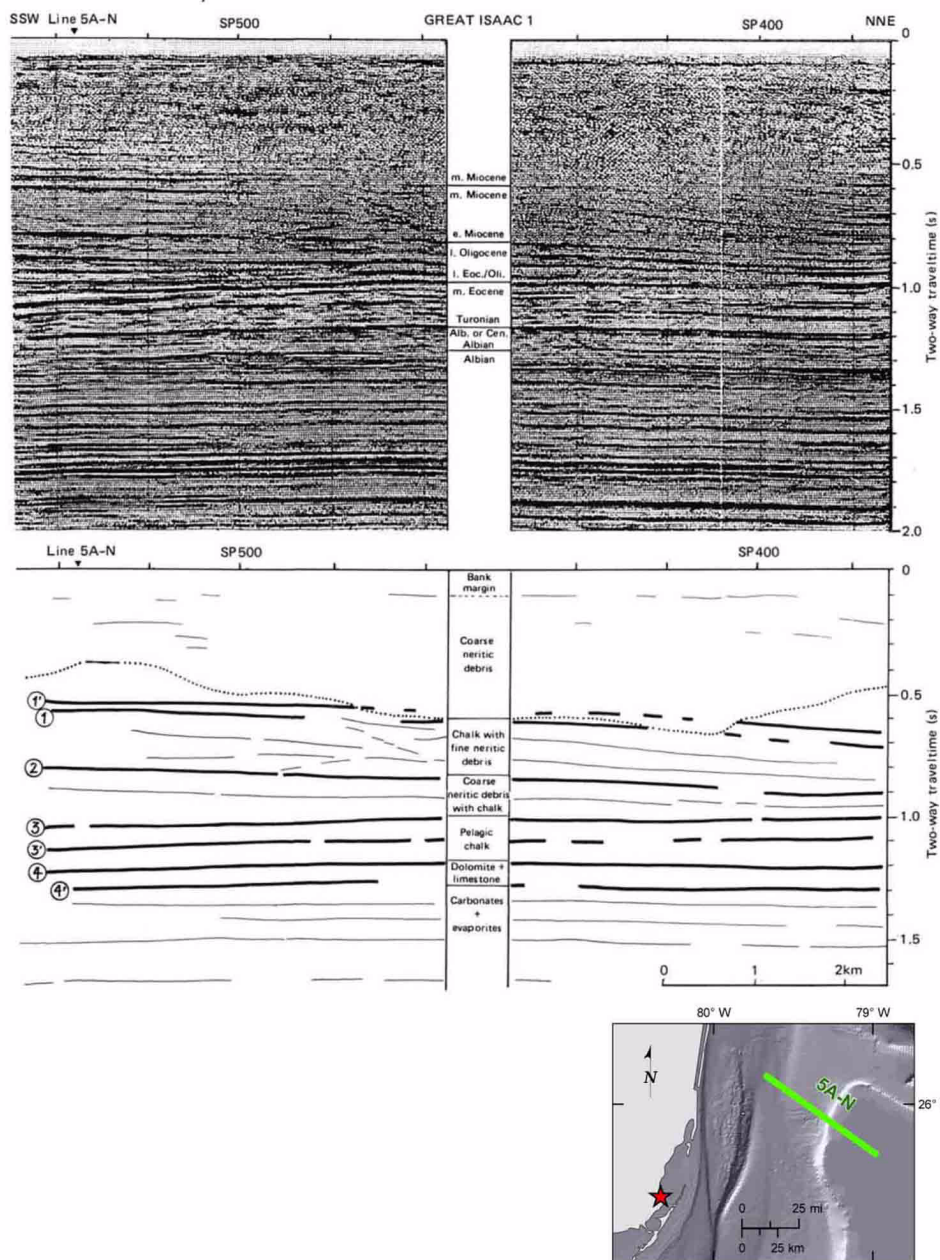
Figure 2.5.1-267 Earthquakes in the Caribbean Region



Note: Earthquake epicenters from Phase 2 catalog (Subsection 2.5.2.1.3), $M_w \geq 3.0$.

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Figure 2.5.1-268 Seismic Line and Interpretation, with Correlation to Great Isaac 1 Well, Bahama Platform



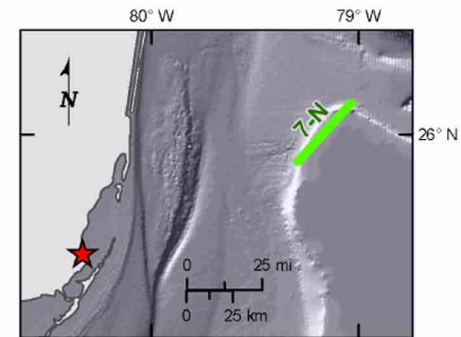
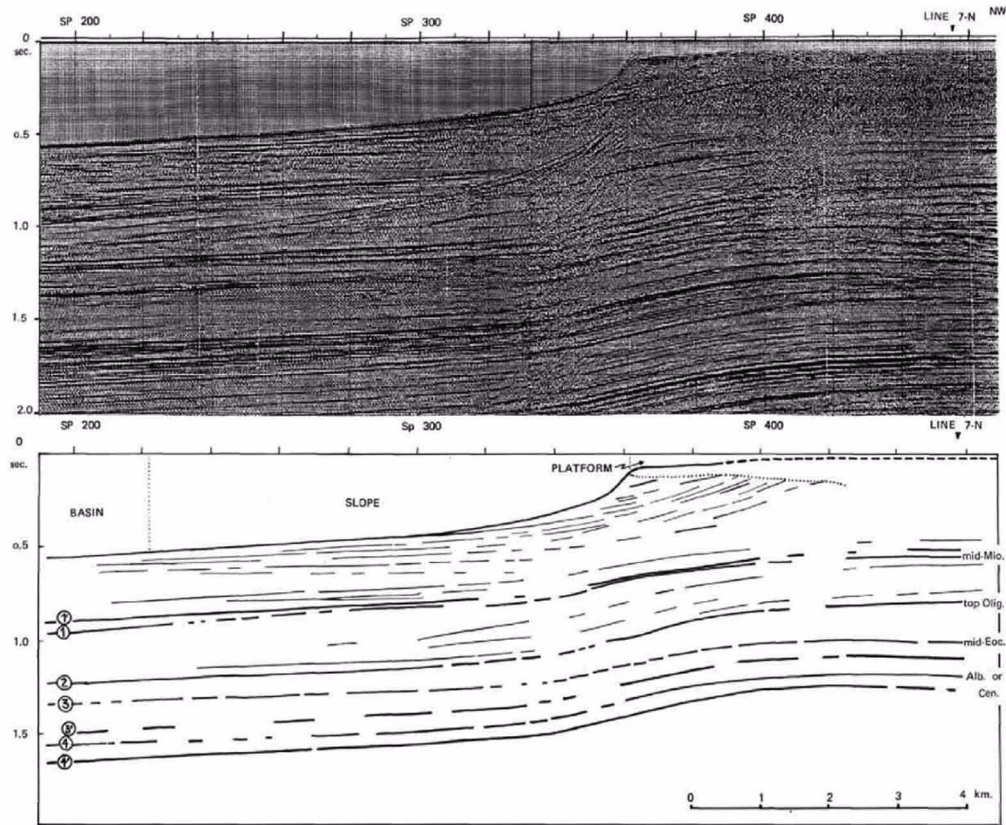
Notes:

- Circled numbers refer to reflectors traced to line 7-N (Figure 2.5.1-269).
- Dotted line delimits diachronous boundary of incoherent slope facies.
- Line cuts across lobe of Great Bahama Bank so that well represents innermost position on bank with thickest development of proximal slope facies.
- South-southwest and north-northwest ends of line approach present bank margin where only upper section is developed as proximal slope facies.

Modified from: Reference 432

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Figure 2.5.1-269 Seismic Line of Northwest Great Bahama Bank

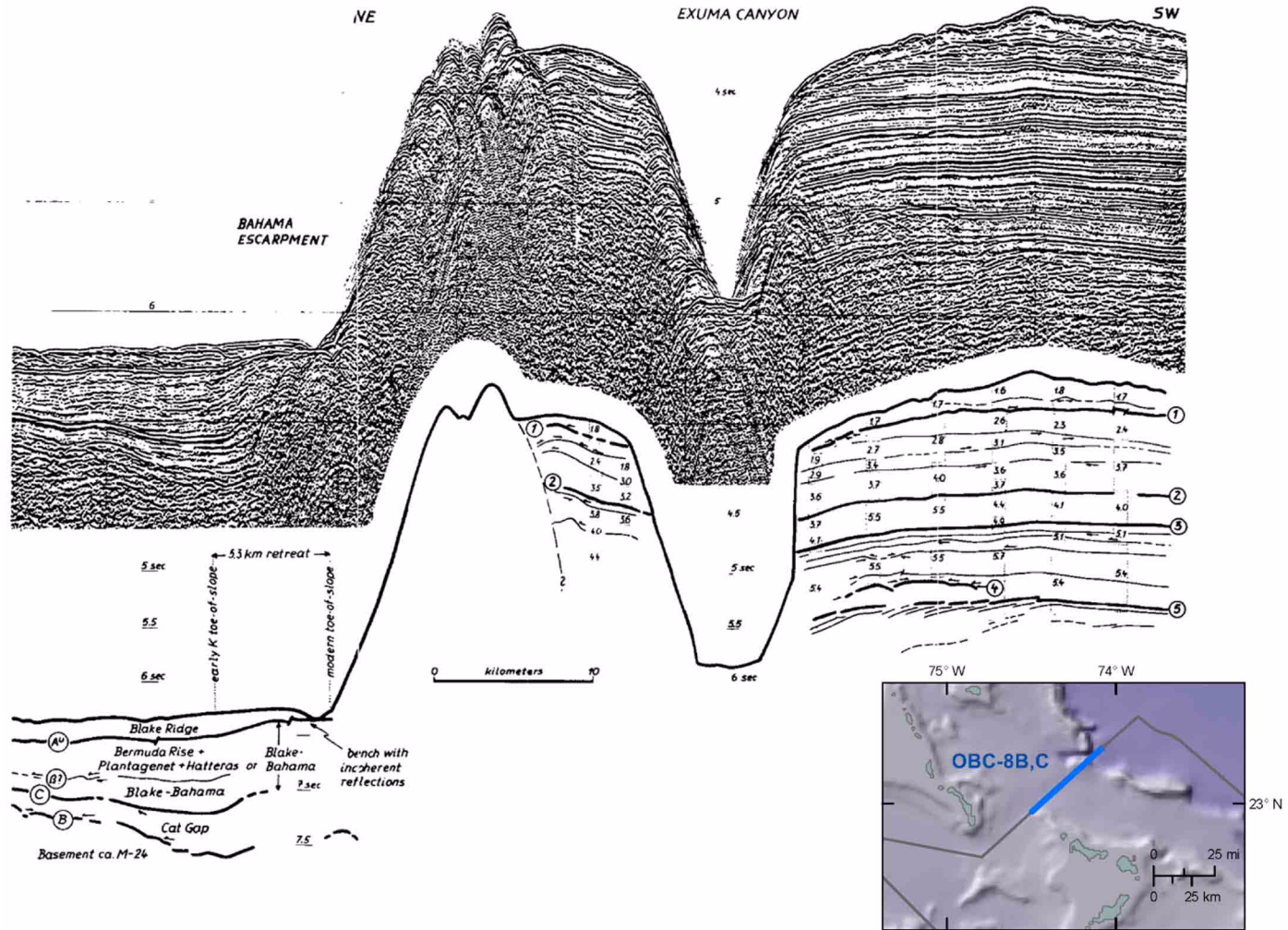


Notes:

- Circled numbers indicate reflectors identified on line 5A-N (Figure 2.5.1-268).
 - Basin, slope, and platform environments are separated according to present-day topography.
 - Boundary between basin and slope is drawn at a slope tangent of 0.025 (1.4°) and marked by a dotted line.
- Modified from: Reference 432

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Figure 2.5.1-270 Seismic Line across Exuma Canyon and Bahama Platform



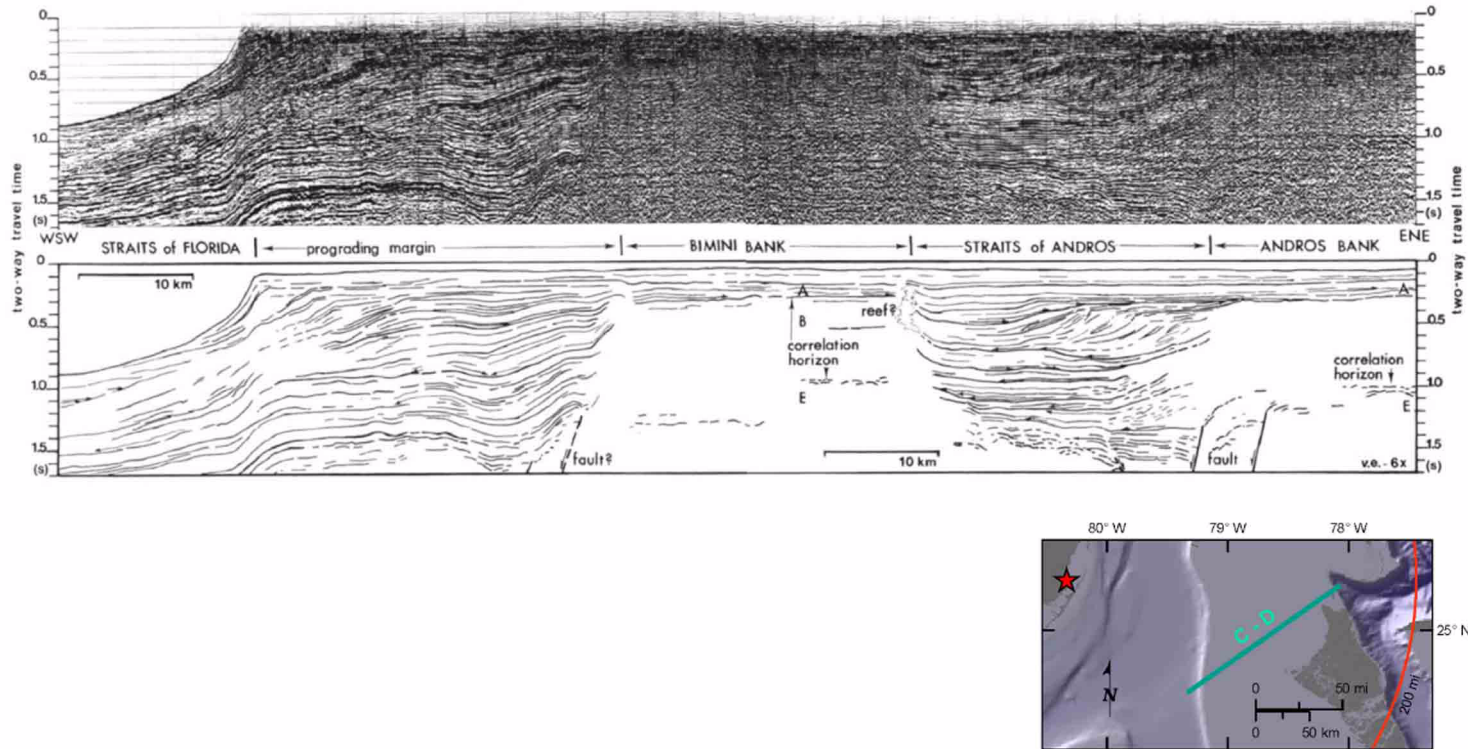
Notes:

Seismic line OBC-8B, C, 48-trace, 24-fold; four air guns of 6000 cubic inches total volume, fired at 500 psi in 25-second intervals; data not deconvolved or migrated. Interpretation of line OBC-8B, C Identification of reflectors seaward of escarpment is based on correlation with DSDP Site 99.

Modified from: [Reference 687](#)

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Figure 2.5.1-271 Seismic Line and Interpretation across Bahama Plateau

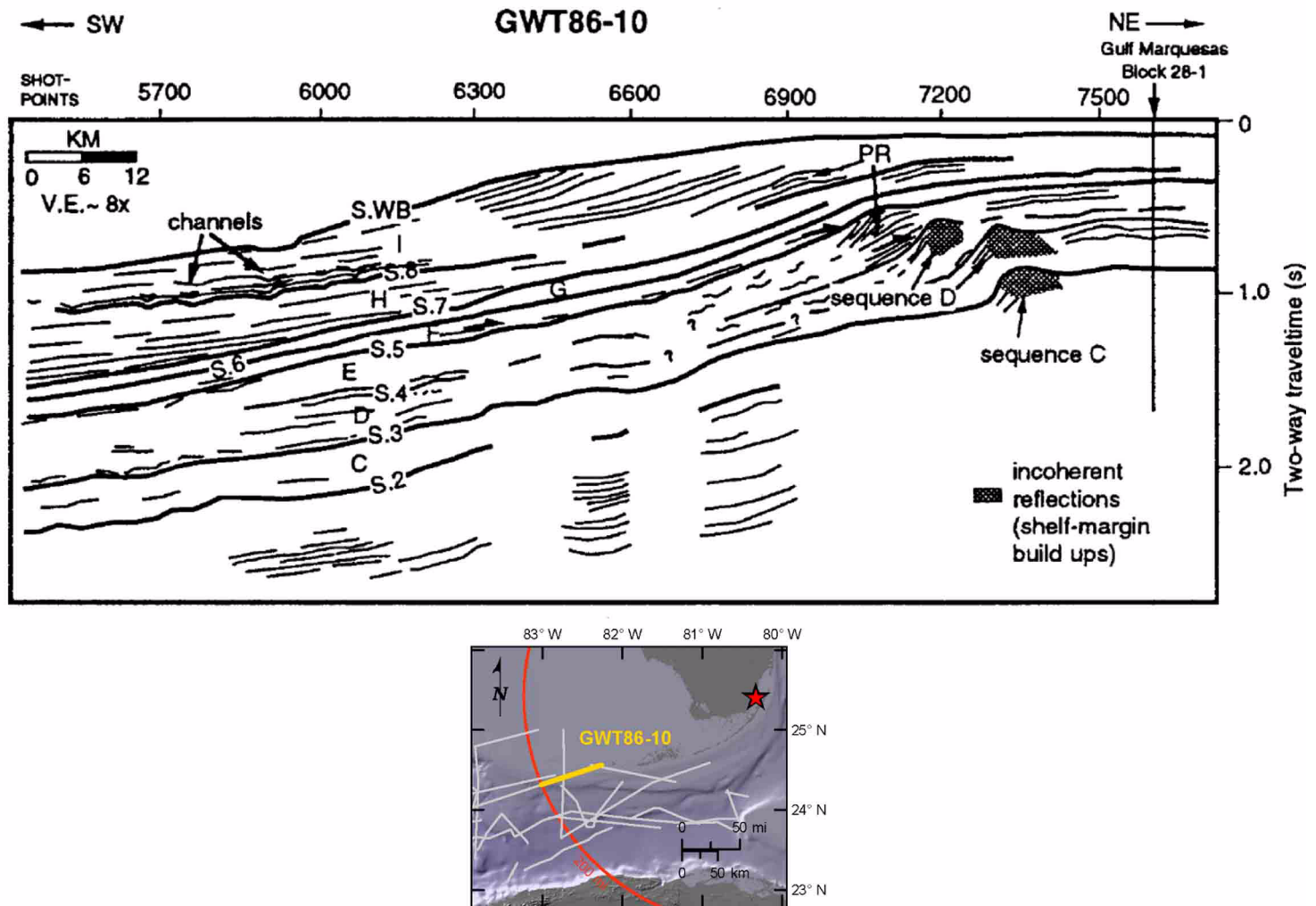


Note: Line showing complex filled Straits of Andros separating Andros bank from Bimini bank and westward-prograding margin of Bimini bank. Note that basal, high-amplitude reflector E is on same elevation within both banks but is displaced at western side of Andros bank and dips into Straits of Andros, where it underlies first reflectors of filling deposits. Compare structural similarities of western margin of Bimini and Andros banks and evolution of prograding sequences over slope deposits.

Modified from: [Reference 475](#)

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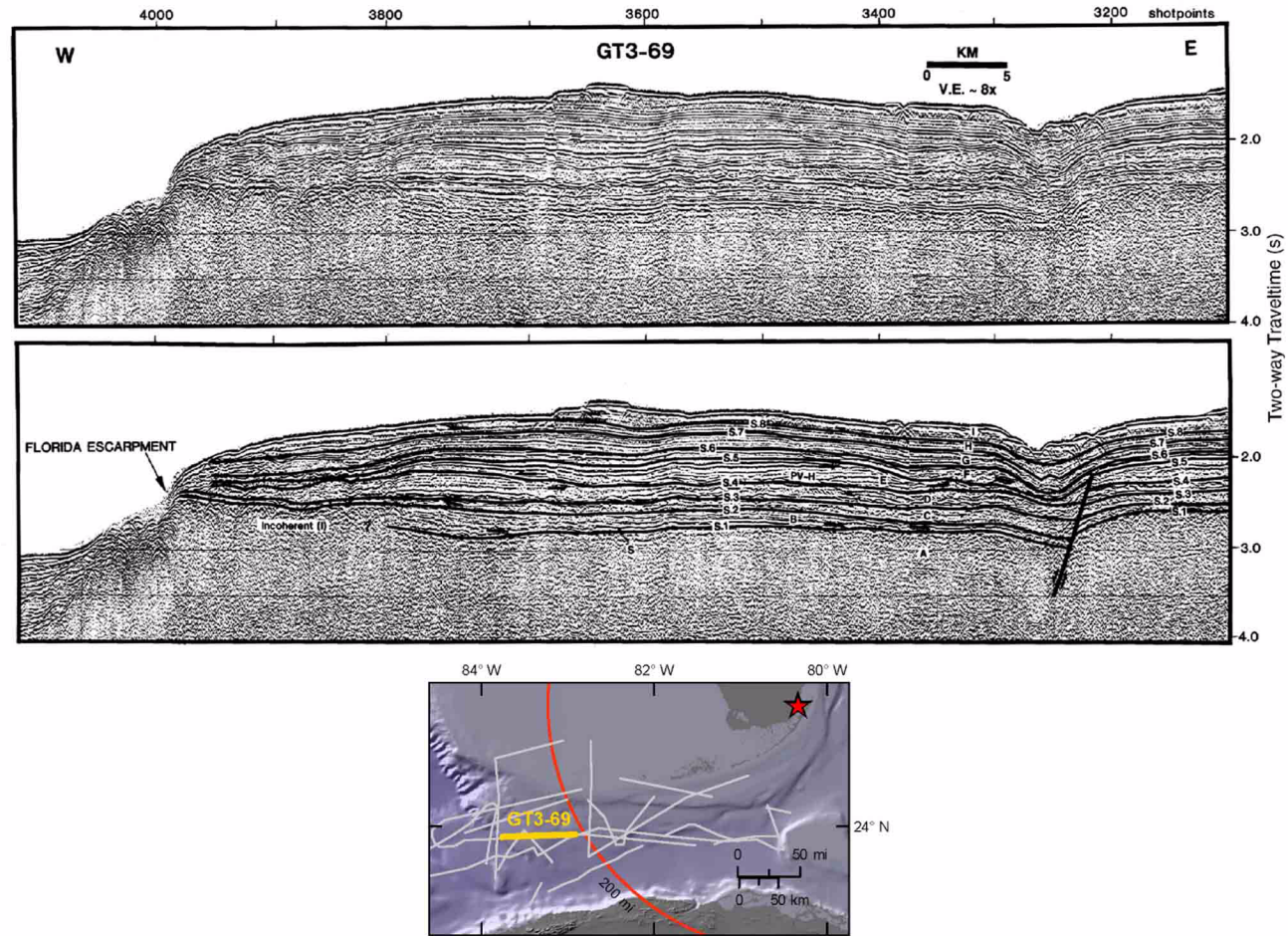
Figure 2.5.1-272 Seismic Line Interpretation of the Western Straits of Florida



Modified from: Reference 221

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Figure 2.5.1-273 Seismic Line and Interpretation across Florida Platform

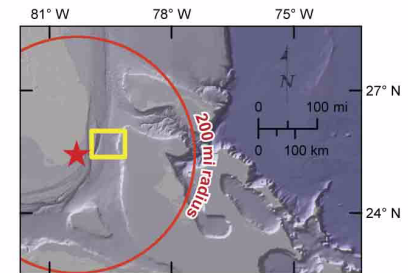
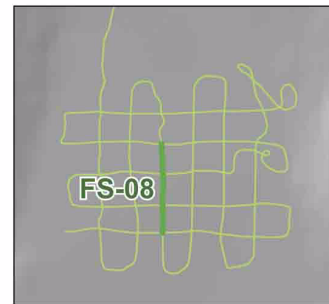
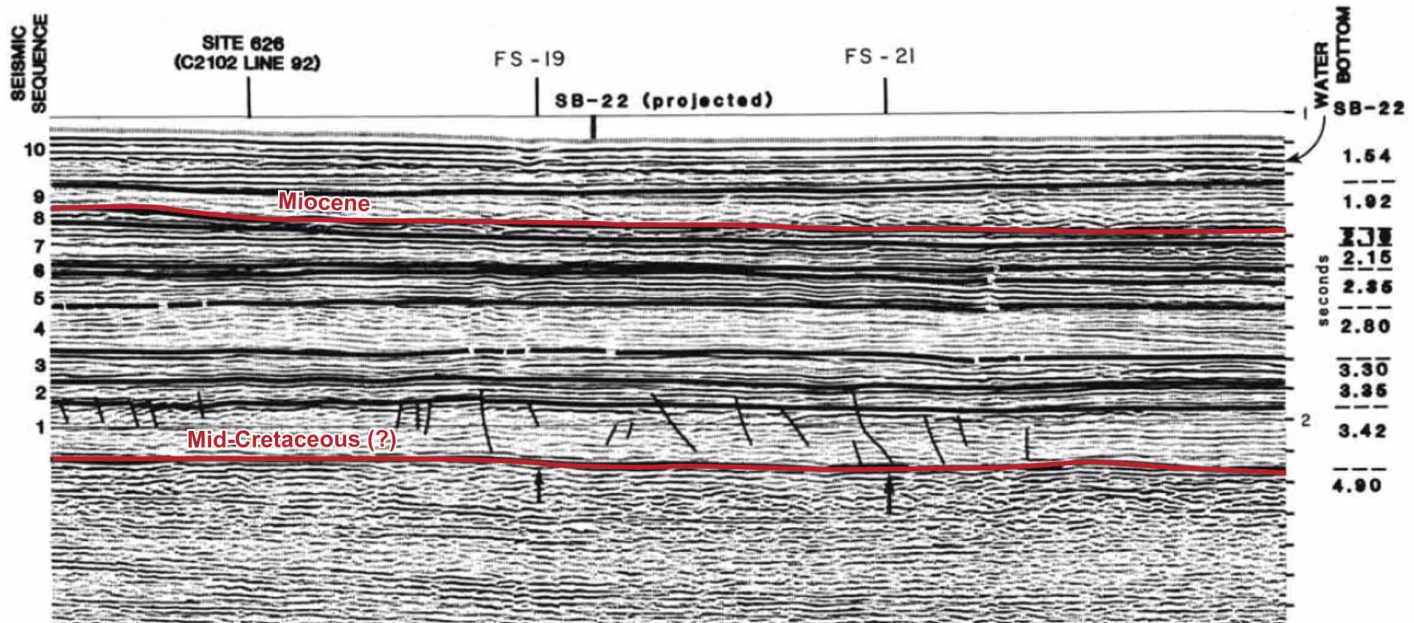


Note: Truncation of lower Paleocene–lower Eocene (?) sediments by S.4 may be related to erosion beneath a proto–Florida Current, which appears to have been concentrated over the central part of the southern Straits of Florida. Offset of S.5 and older horizons suggests a down-to-the-west normal fault at shot point 3210. At similar water depths (i.e., shot points 3400 and 3150), S.1 is at a deeper two-way travel time on the downthrown side of an inferred fault than on the upthrown side, suggesting this feature is not merely a velocity anomaly beneath the submarine canyon. Truncation by S.5 on the western flank of the submarine canyon may indicate this feature was active by the late middle Eocene.

Modified from: [Reference 221](#)

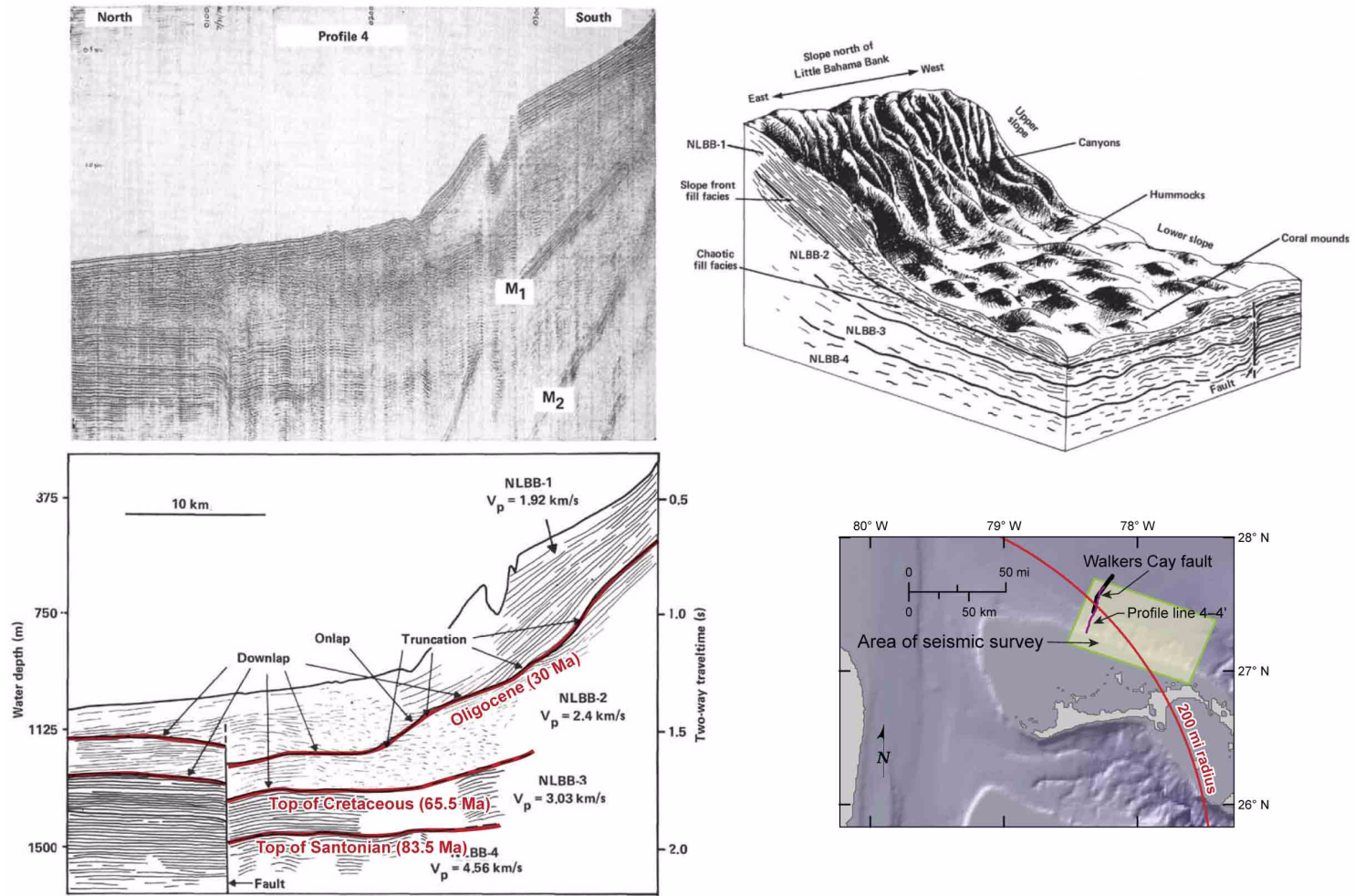
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Figure 2.5.1-274 Interpreted Versions of the Southern Half of Profile FS-08 in the Straits of Florida



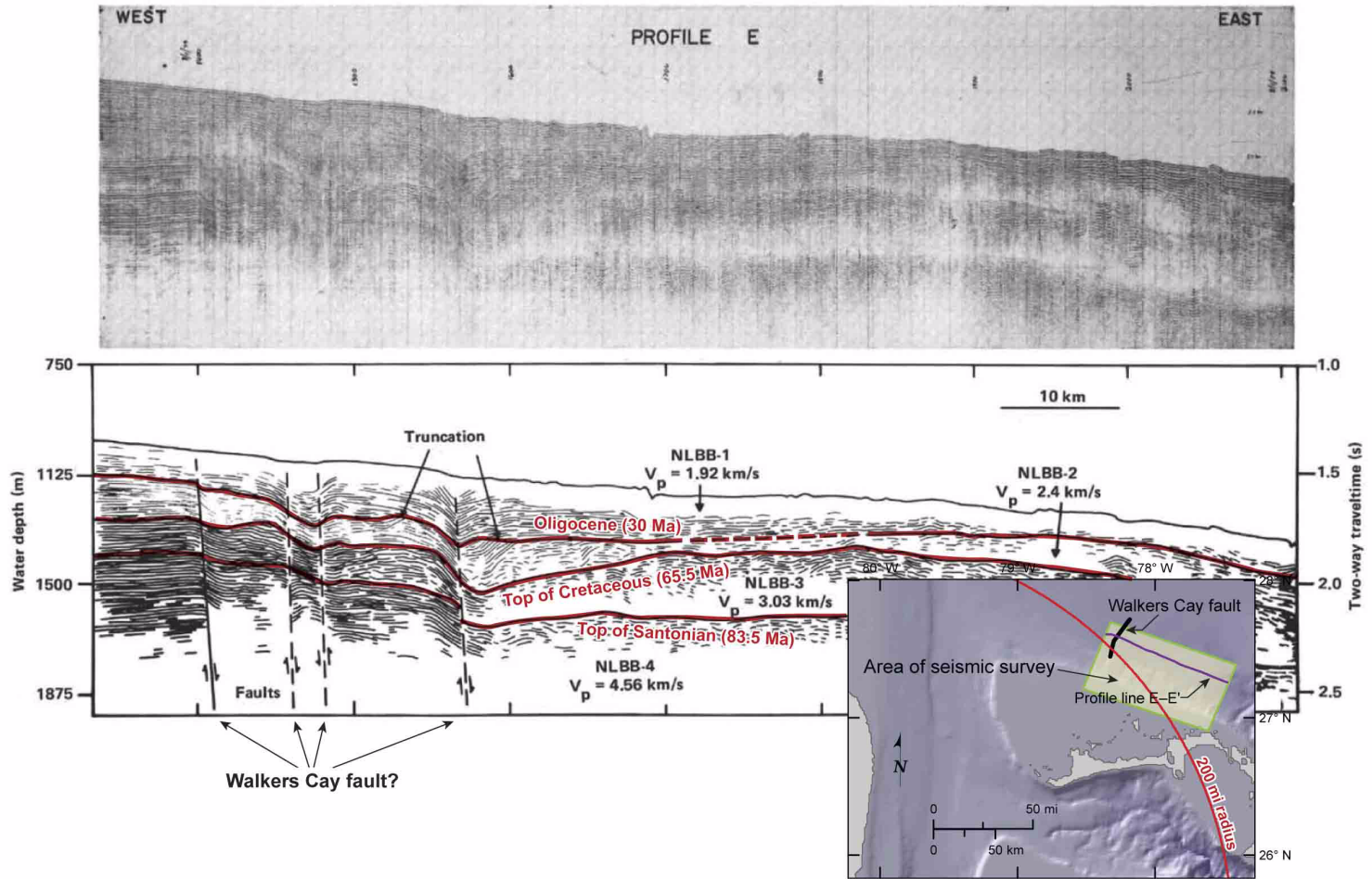
Turkey Point Units 6 & 7
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Figure 2.5.1-275 Seismic Line and Interpretation across the Walkers Cay Fault



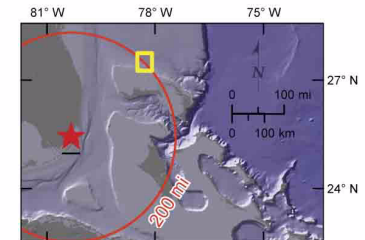
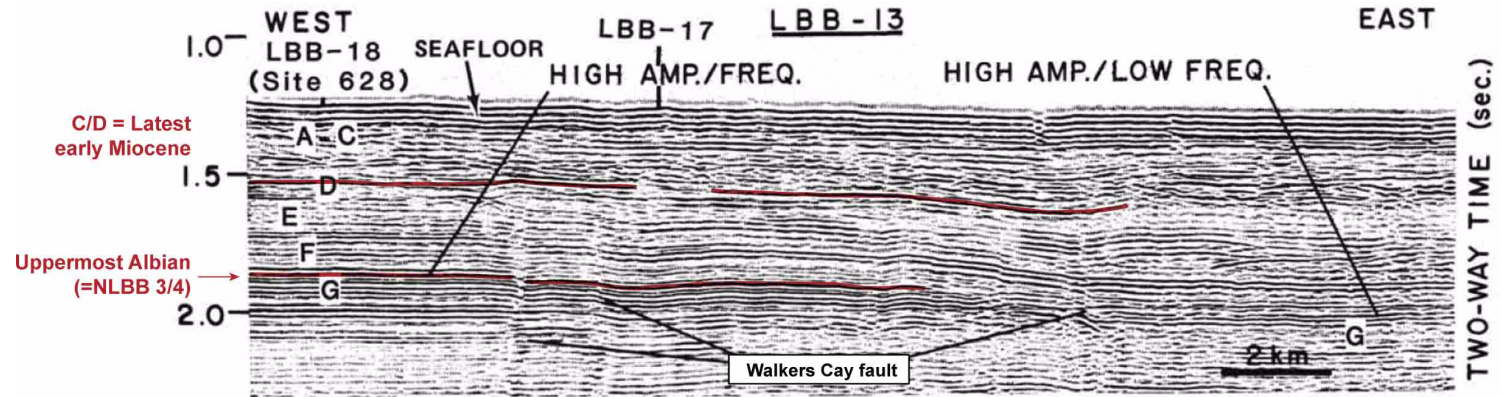
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Figure 2.5.1-276 Seismic Line and Interpretation across the Walkers Cay Fault



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Figure 2.5.1-277 Seismic Line along Edge of Little Bahama Bank and Walkers Cay Fault



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Figure 2.5.1-278 Seismic Line and Interpretation across the Santaren Anticline

