

Plates



Base from U.S. Army Corp of Engineers. DOQQ 2004 orthophotos for the quadrangles of Coamo, Salinas, Cayey, and Central Aguirre. Lambert conformal conic projection. Datum NAD 1927

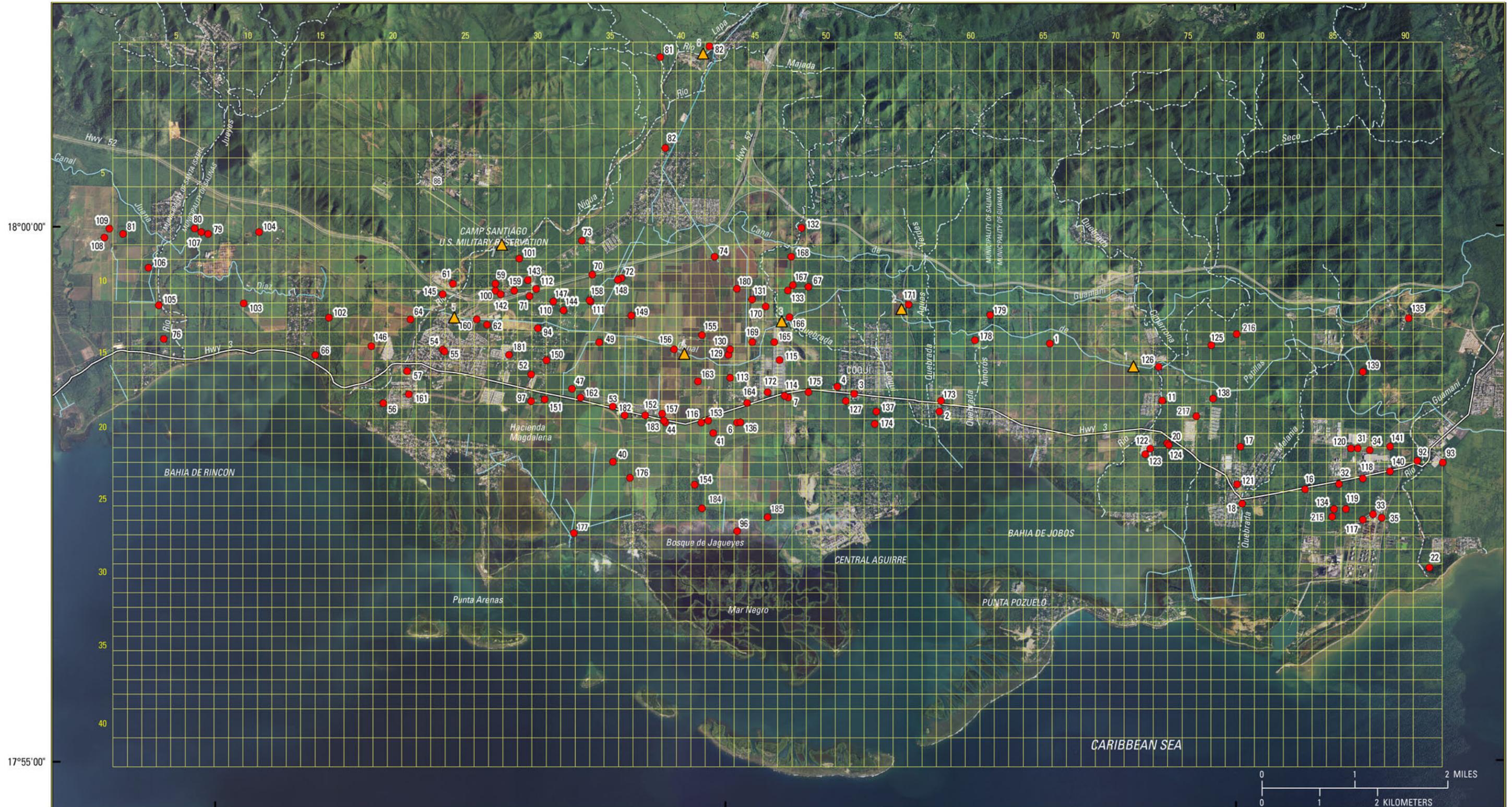
Plate 1. Transects along the study area used in constructing fence diagrams.



DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
66°20'00"

Prepared in cooperation with the
PUERTO RICO DEPARTMENT OF NATURAL AND
ENVIRONMENTAL RESOURCES
66°15'00"

SCIENTIFIC INVESTIGATIONS REPORT 2010-5022
Kuniansky, Eve L. and Rodríguez, José M. PLATE 2
Effects of Changes in Irrigation Practices and Aquifer Development on
Groundwater Discharge to the Jobs Bay Estuarine Research Reserve, near Salinas, Puerto Rico
66°10'00"



Base from U.S. Army Corp of Engineers. DOQQ 2004 orthophotos for the quadrangles of Coamo, Salinas, Cayey, and Central Aguirre. Lambert conformal conic projection. Datum NAD 1927



Grid of groundwater-flow model for the study area

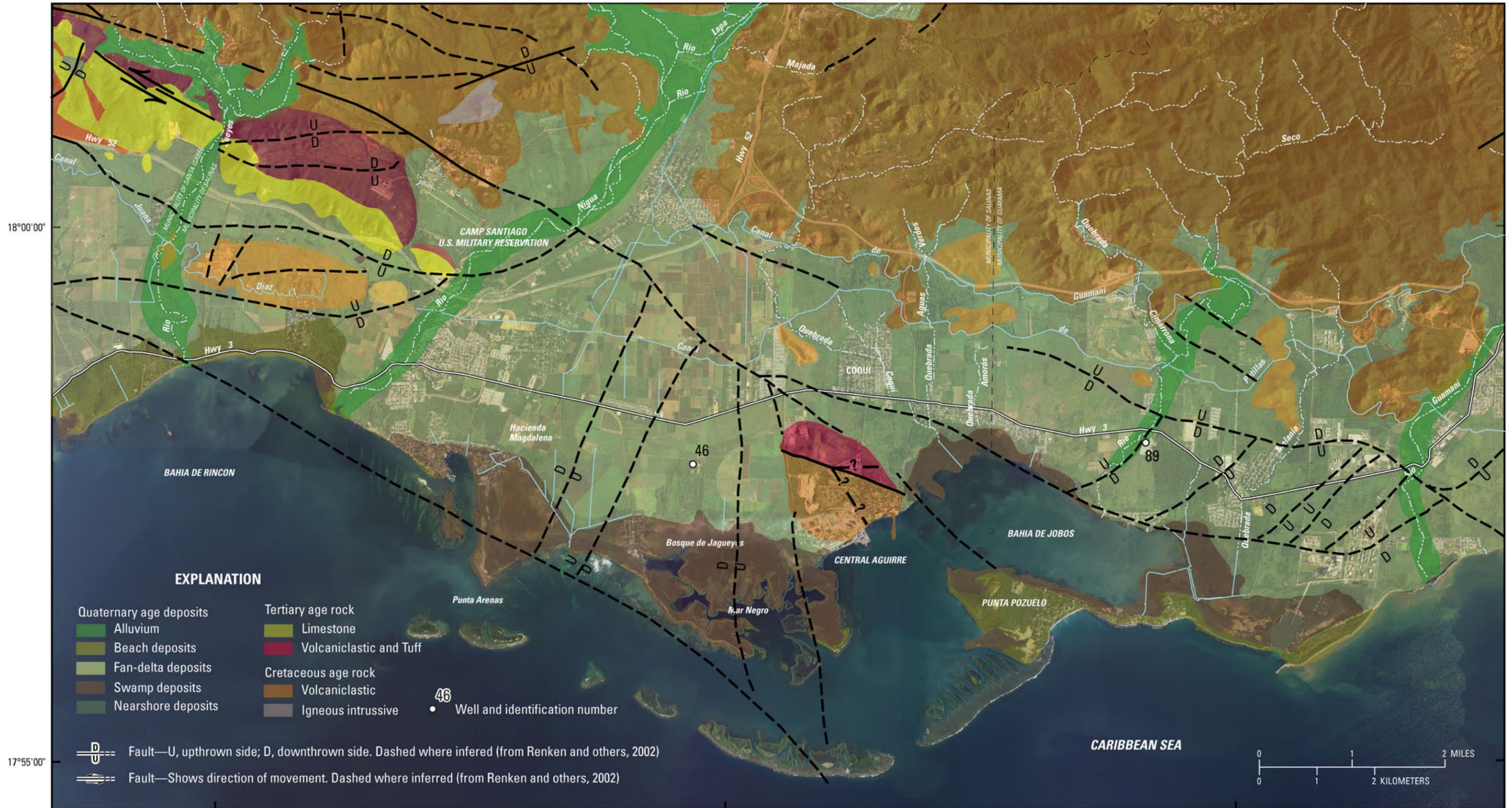


Well and identification number, as shown in Appendix 3, used in obtaining hydraulic and hydrogeologic data used in this study



Stream flow measuring point and identification number as shown in table 2.

Plate 2. Part of the South Coast aquifer between the Río Jueyes and Río Guamaní in south central Puerto Rico for which a digital groundwater flow model was developed.



Base from U.S. Army Corp of Engineers. DOQQ 2004 orthophotos for the quadrangles of Coamo, Salinas, Cayey, and Central Aguirre. Lambert conformal conic projection. Datum NAD 1927

Plate 3. Generalized surficial geology in the south coastal plain from Río Jueyes to Río Guamaní area, Puerto Rico (modified from Krushensky and others, 1998; Renken and others, 2002).

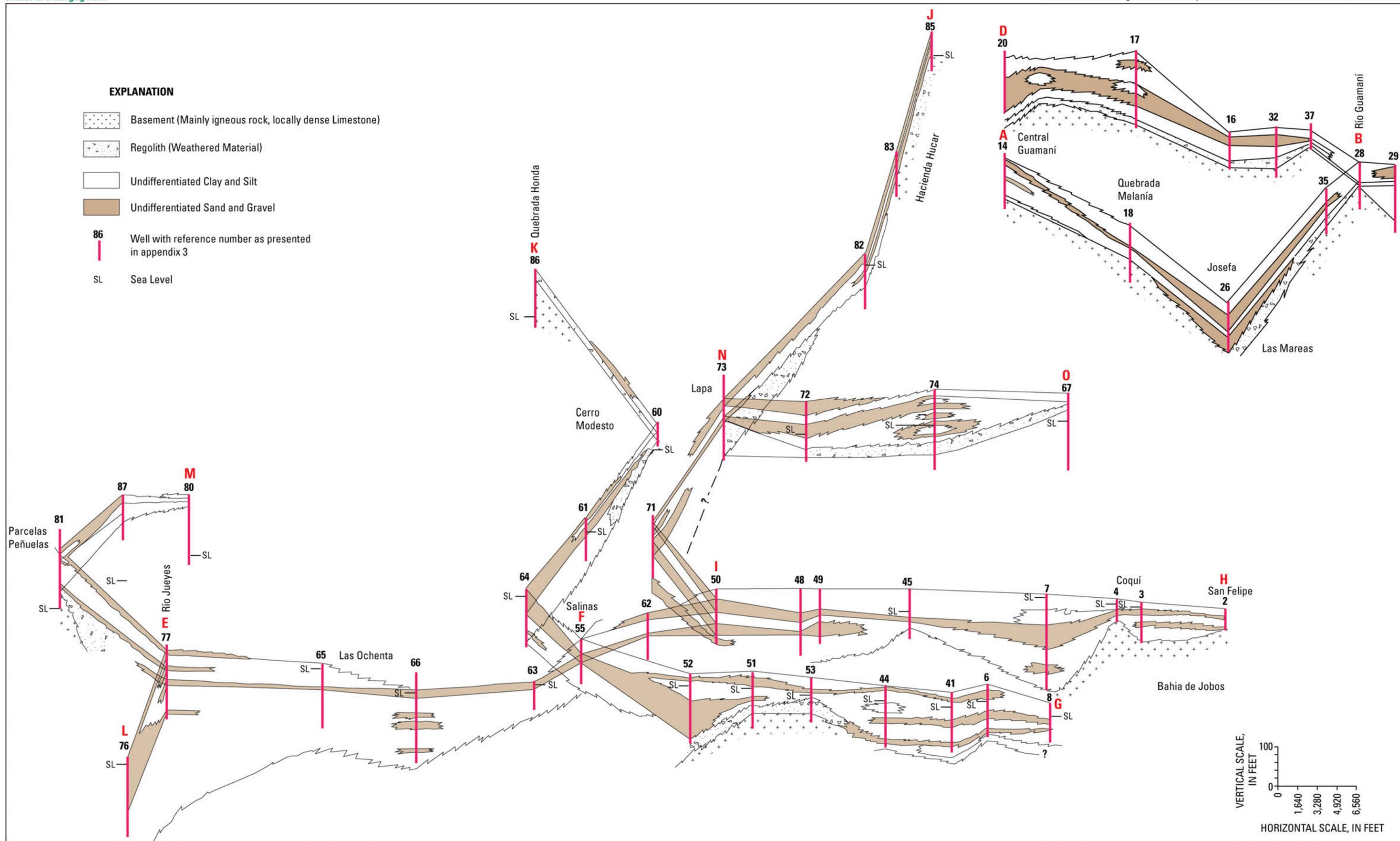
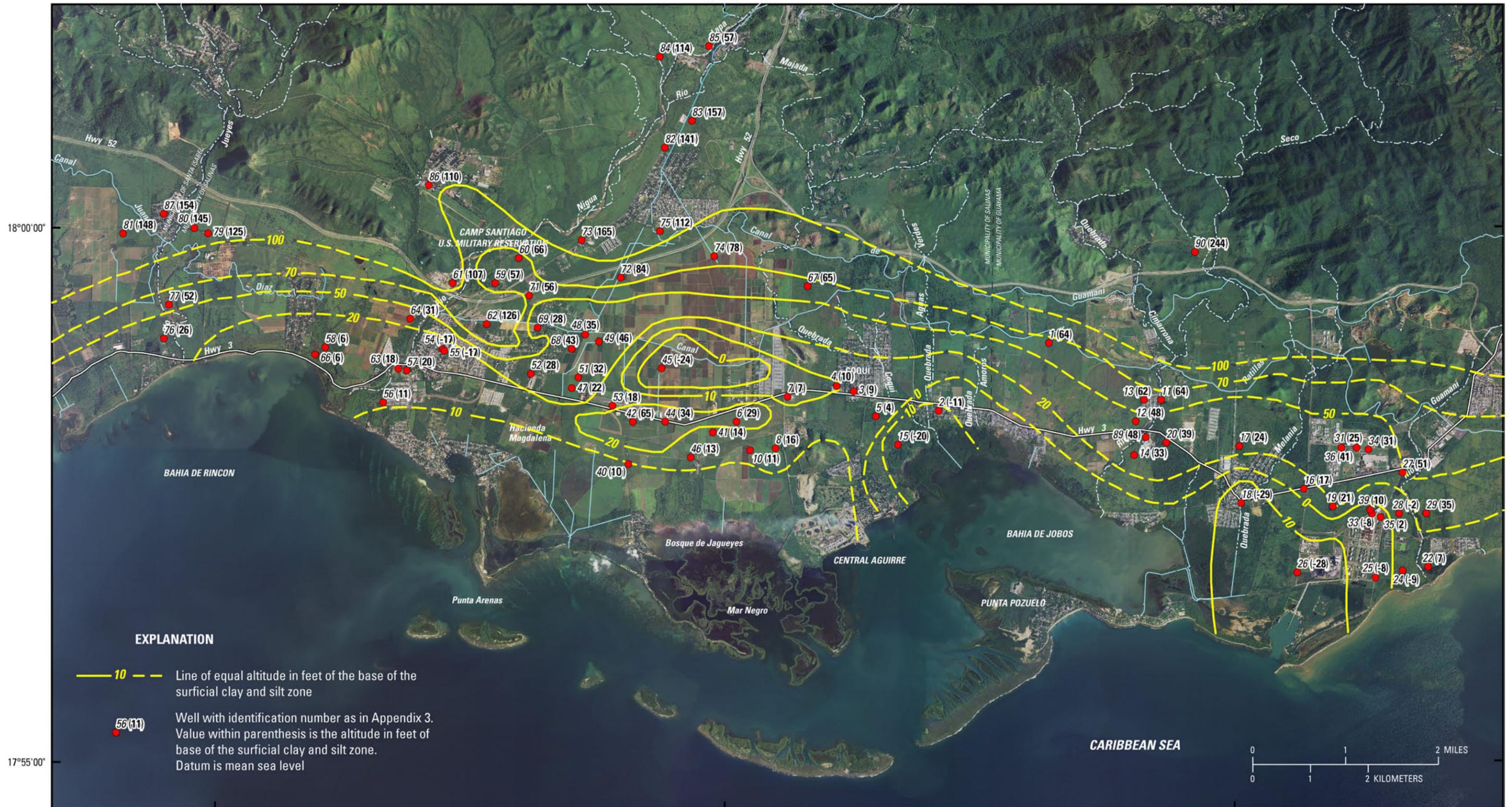


Plate 4. Fence diagrams showing the spatial variation in thickness of undifferentiated gravel and sand units of the fan-delta deposits in the study area.



Base from U.S. Army Corp of Engineers. DOQQ 2004 orthophotos for the quadrangles of Coamo, Salinas, Cayey, and Central Aguirre. Lambert conformal conic projection. Datum NAD 1927

Plate 5. The altitude of the top of the permeable aquifer deposits (equivalent to the base of semi-confining clay and silt deposits).

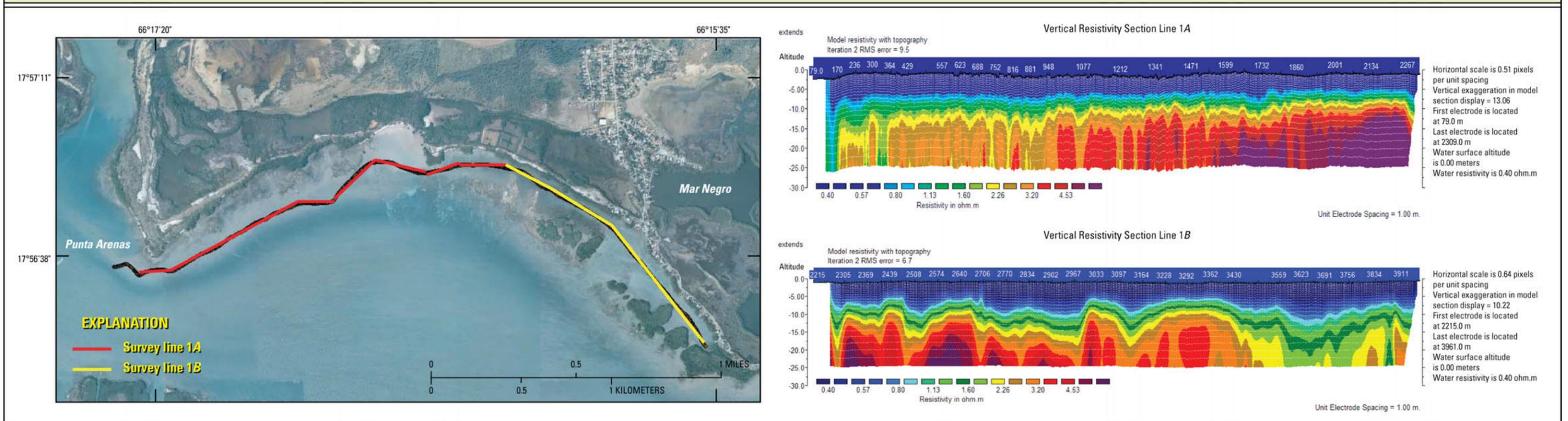
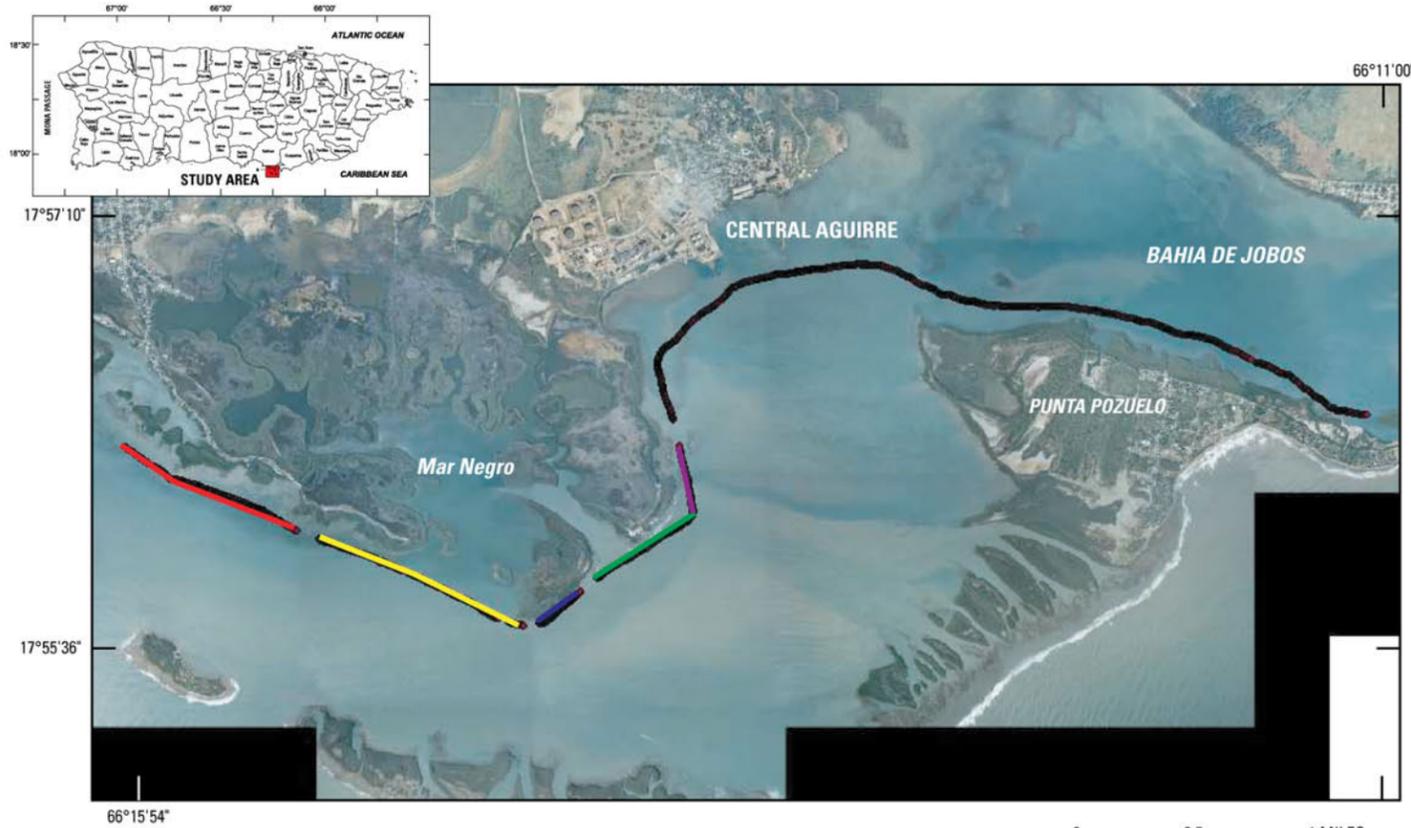


Plate 6a. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 1A through 1B.



EXPLANATION

- Survey line 2A
- Survey line 2B
- Survey line 2C
- Survey line 2D
- Survey line 2E

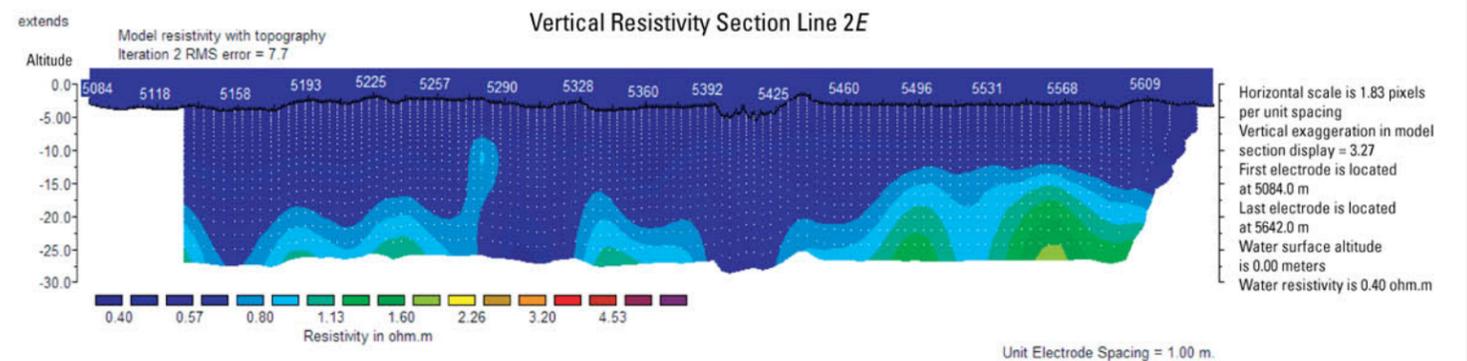
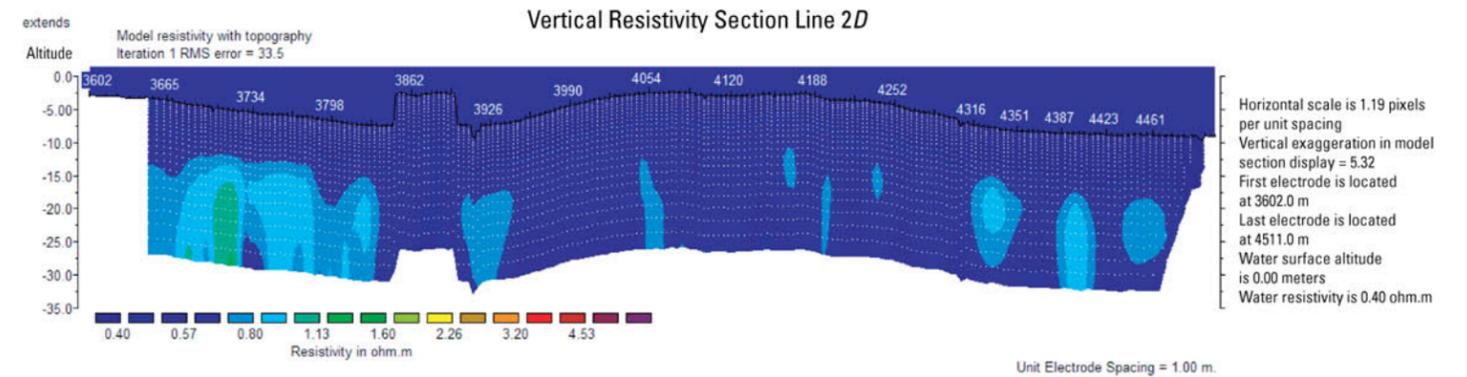
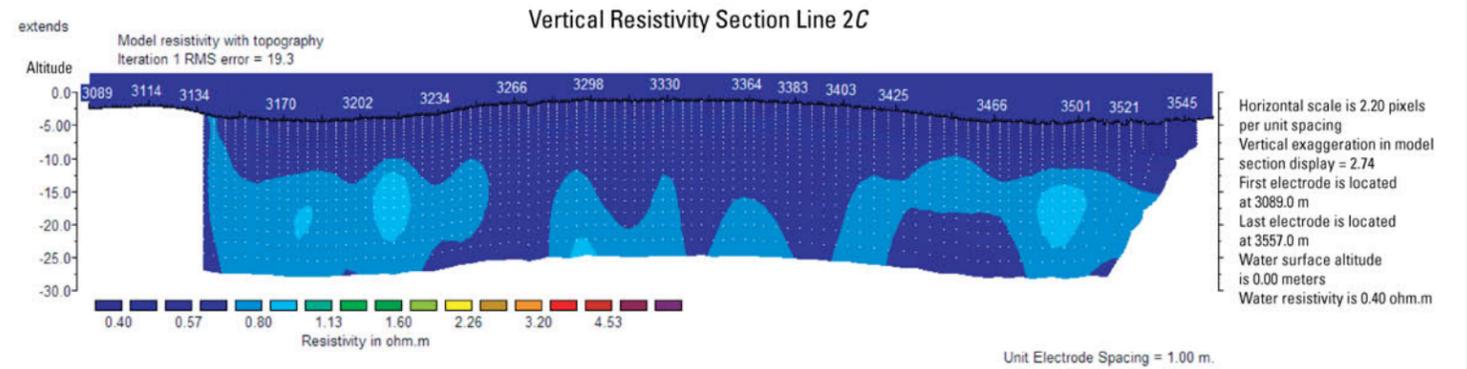
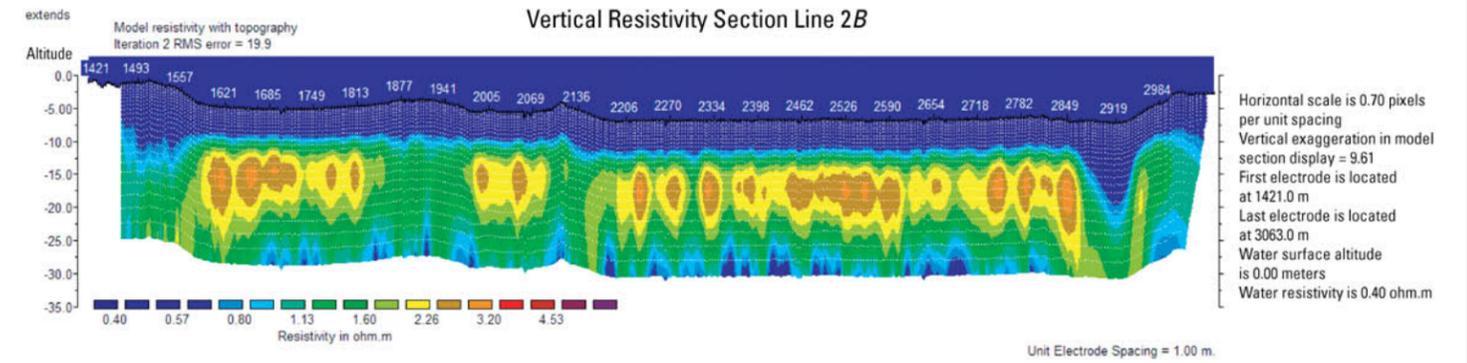
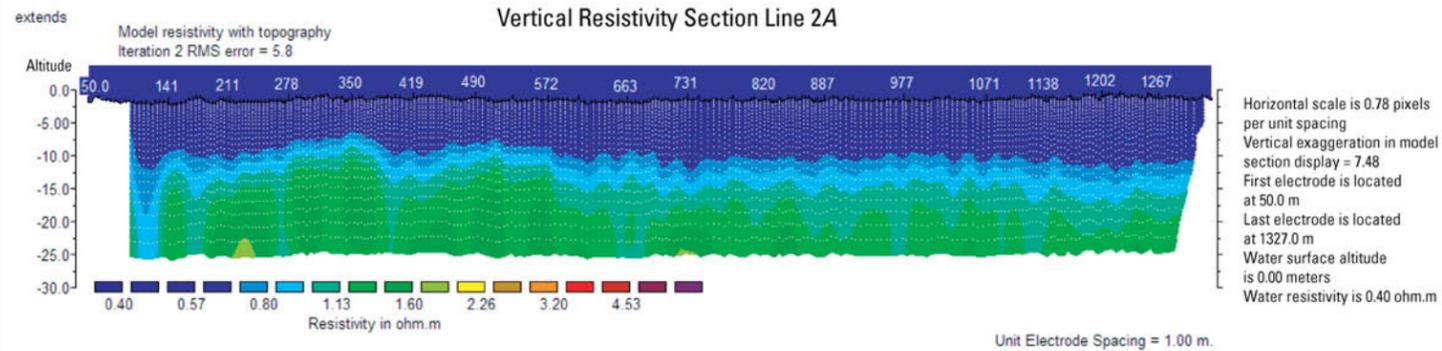
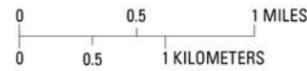


Plate 6b. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 2A through 2E.

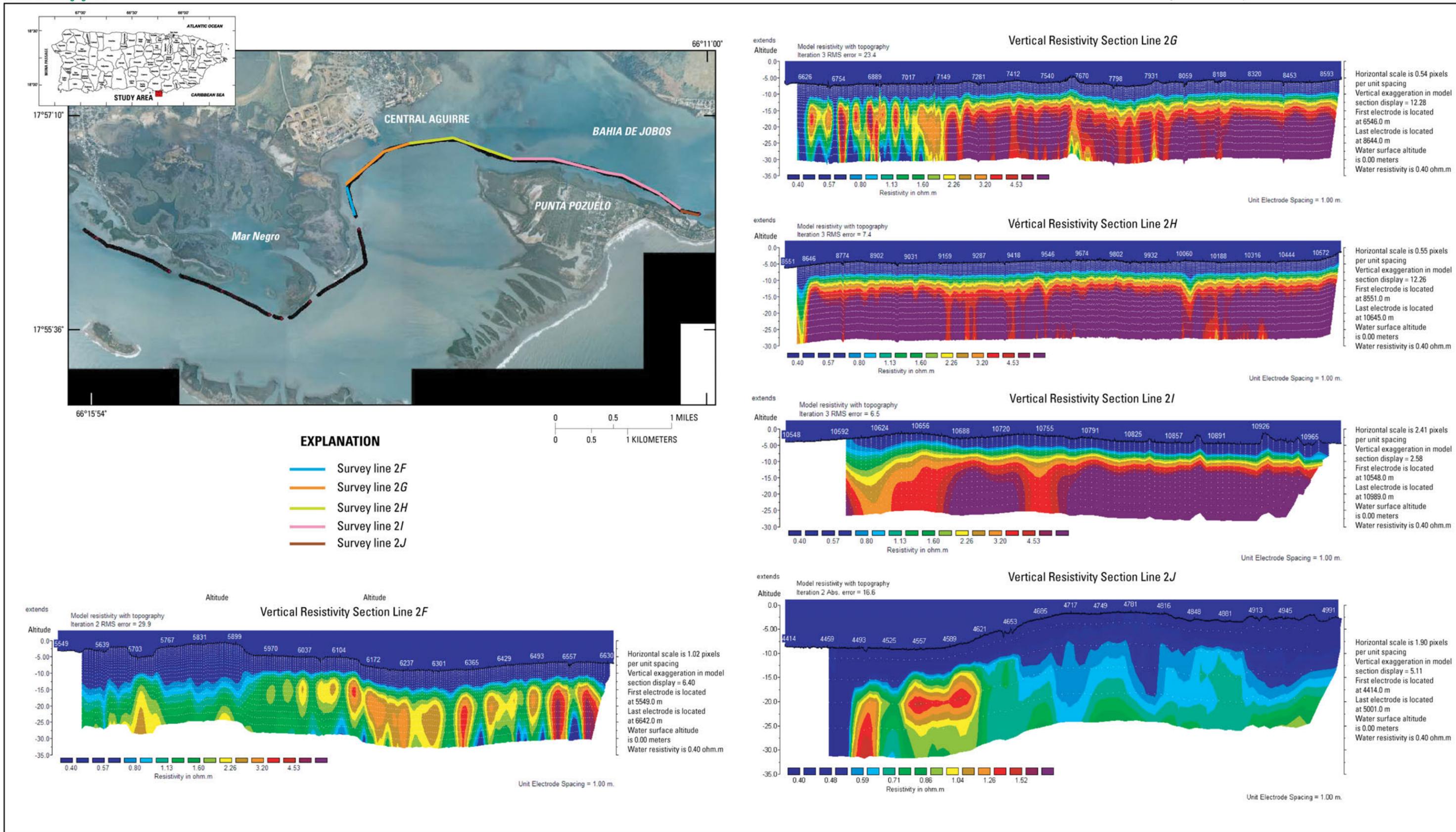


Plate 6c. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 2F through 2J.

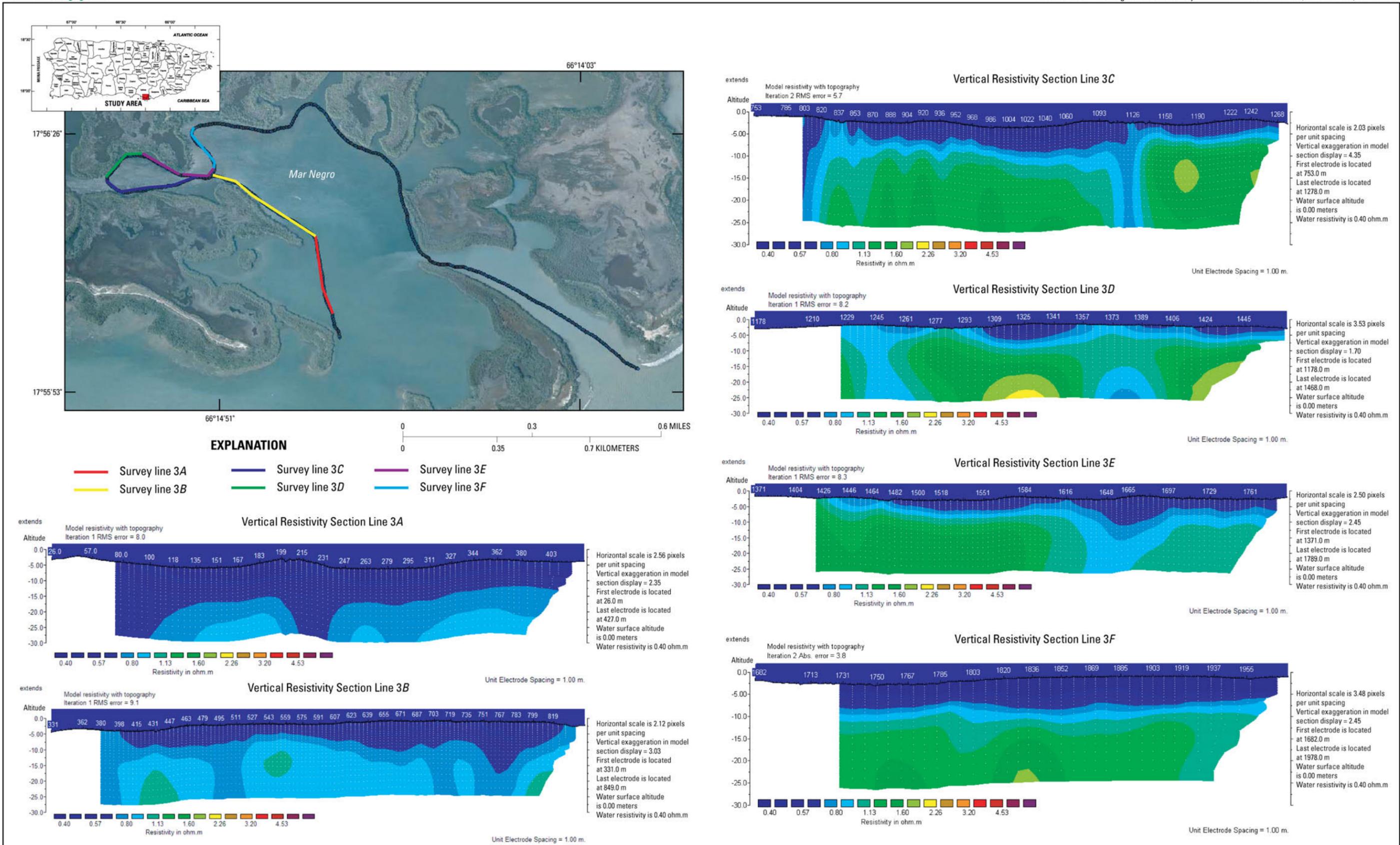


Plate 6d. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 3A through 3F.

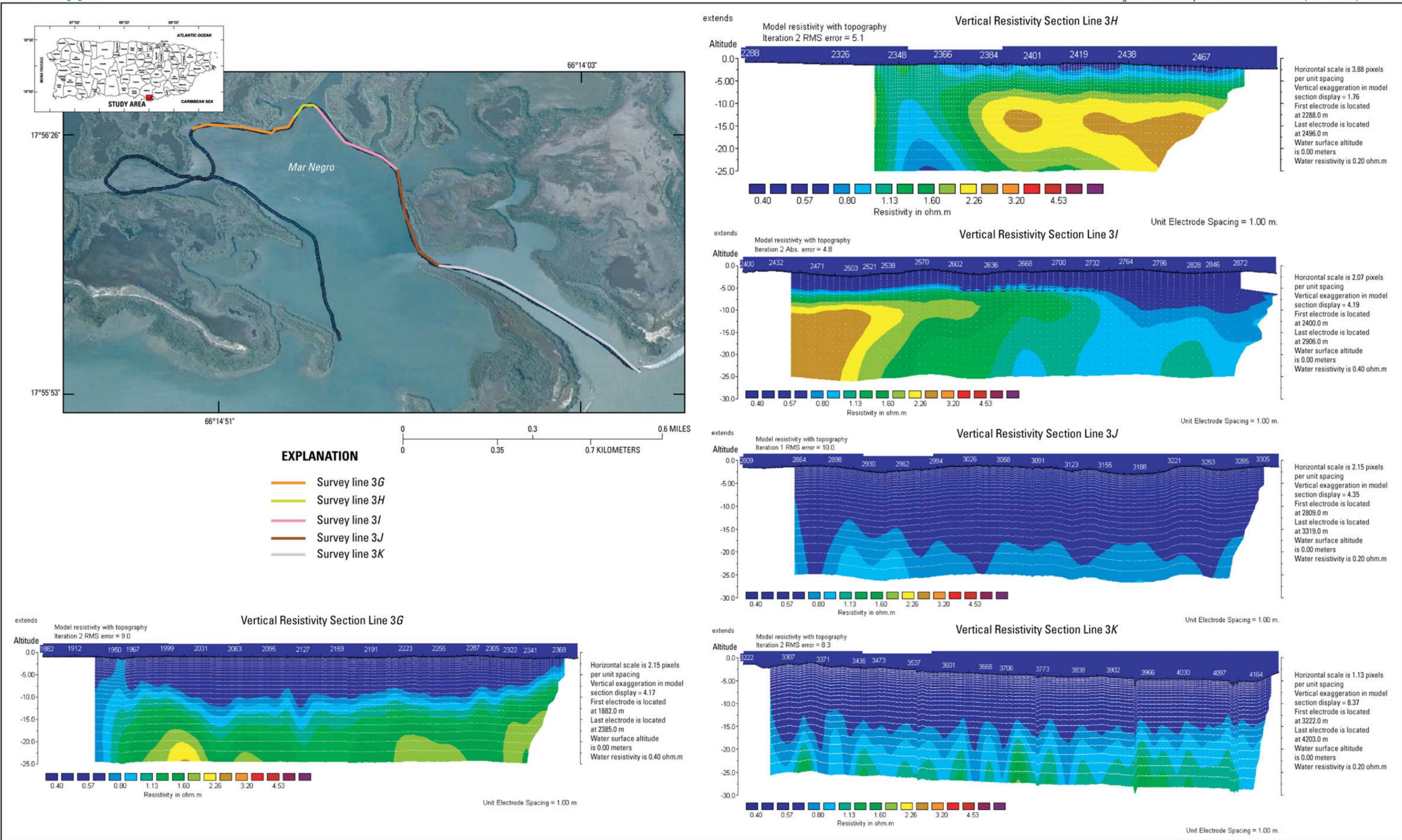
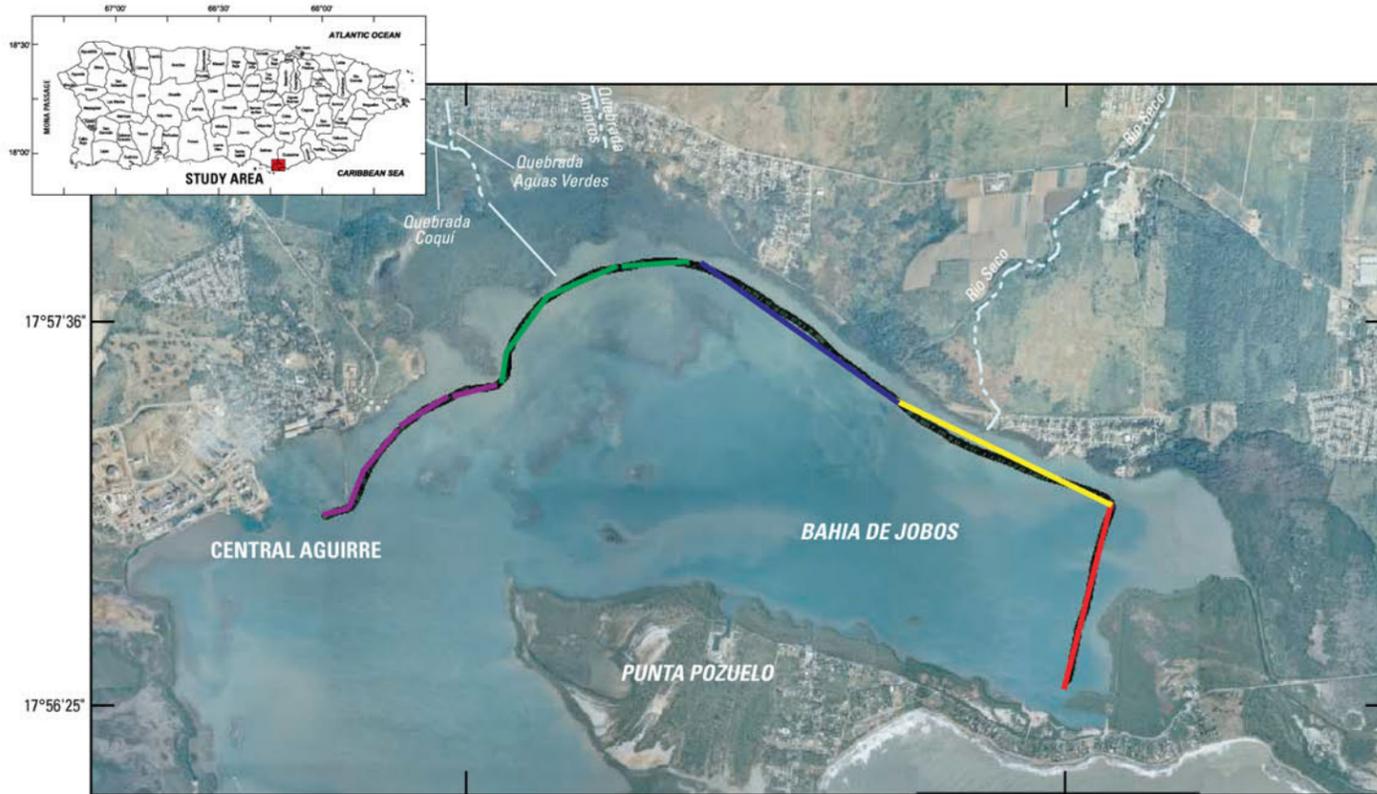


Plate 6e. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 3G through 3K.



EXPLANATION

- Survey line 4A
- Survey line 4B
- Survey line 4C
- Survey line 4D
- Survey line 4E

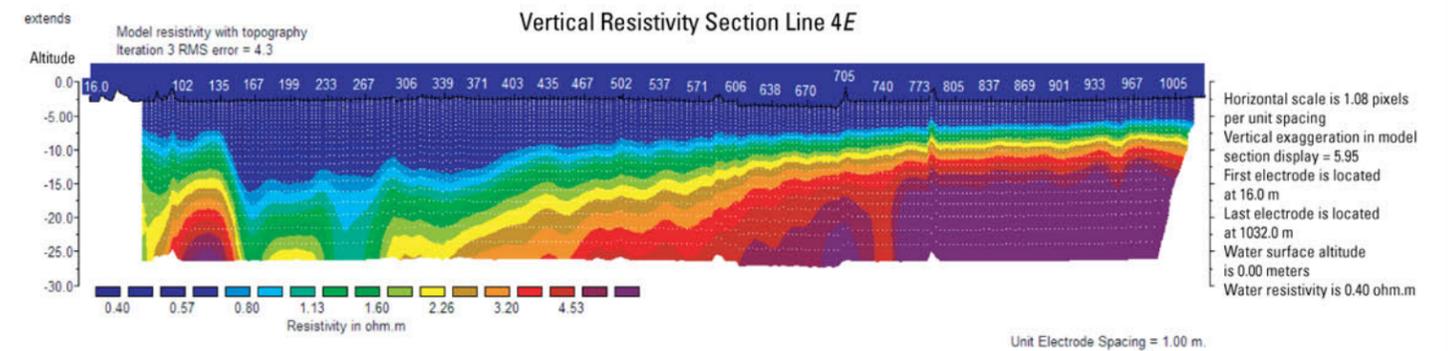
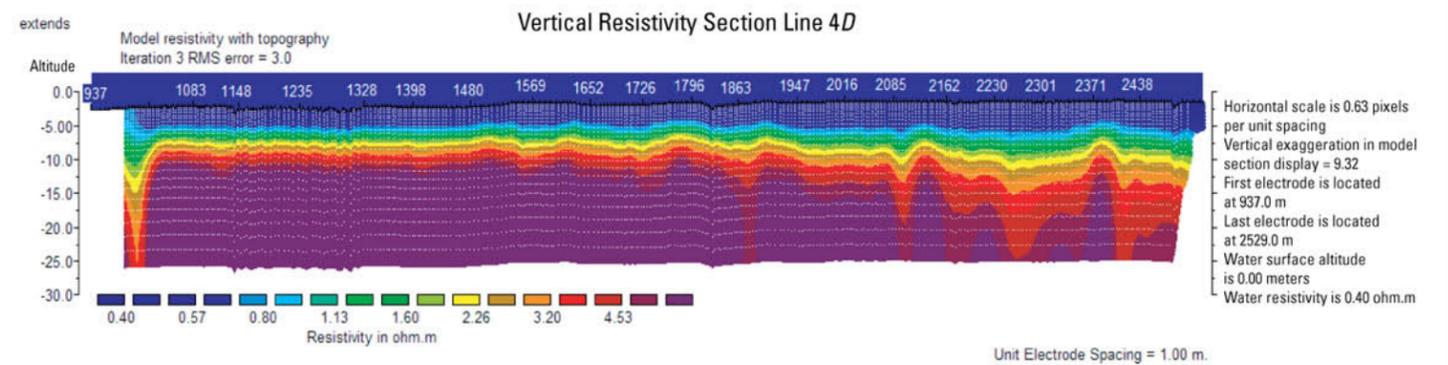
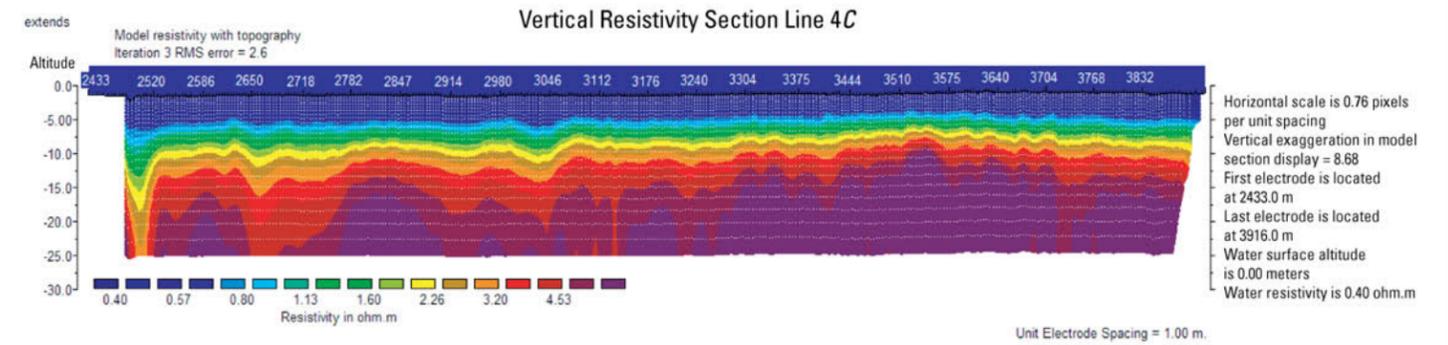
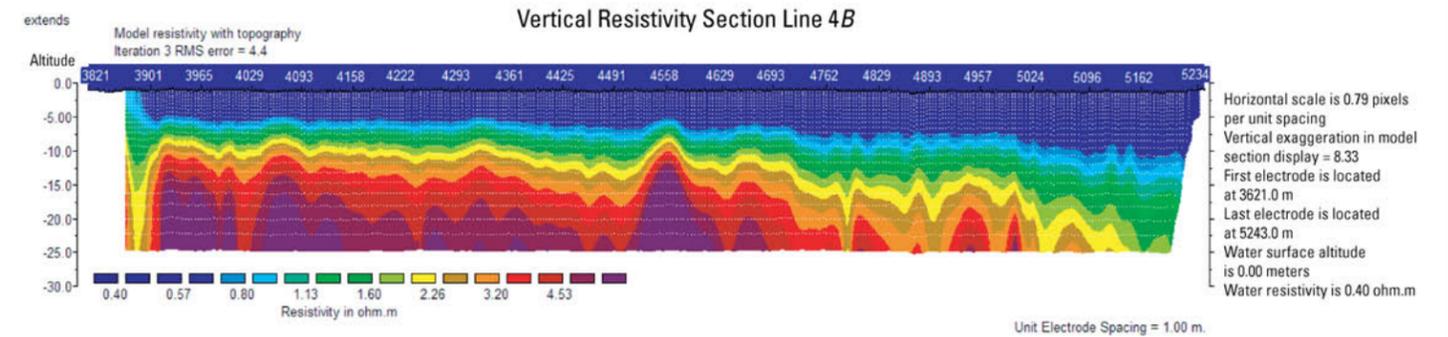
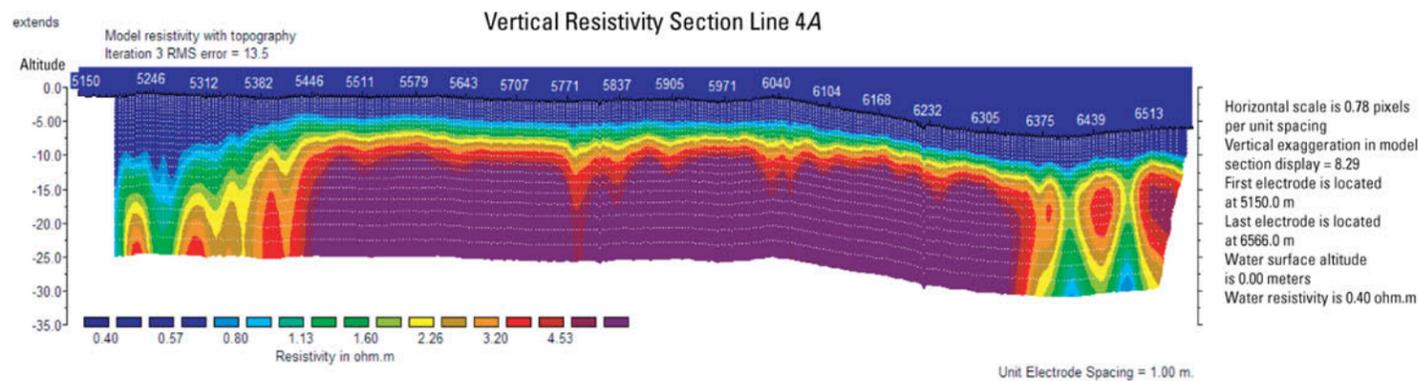
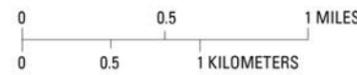
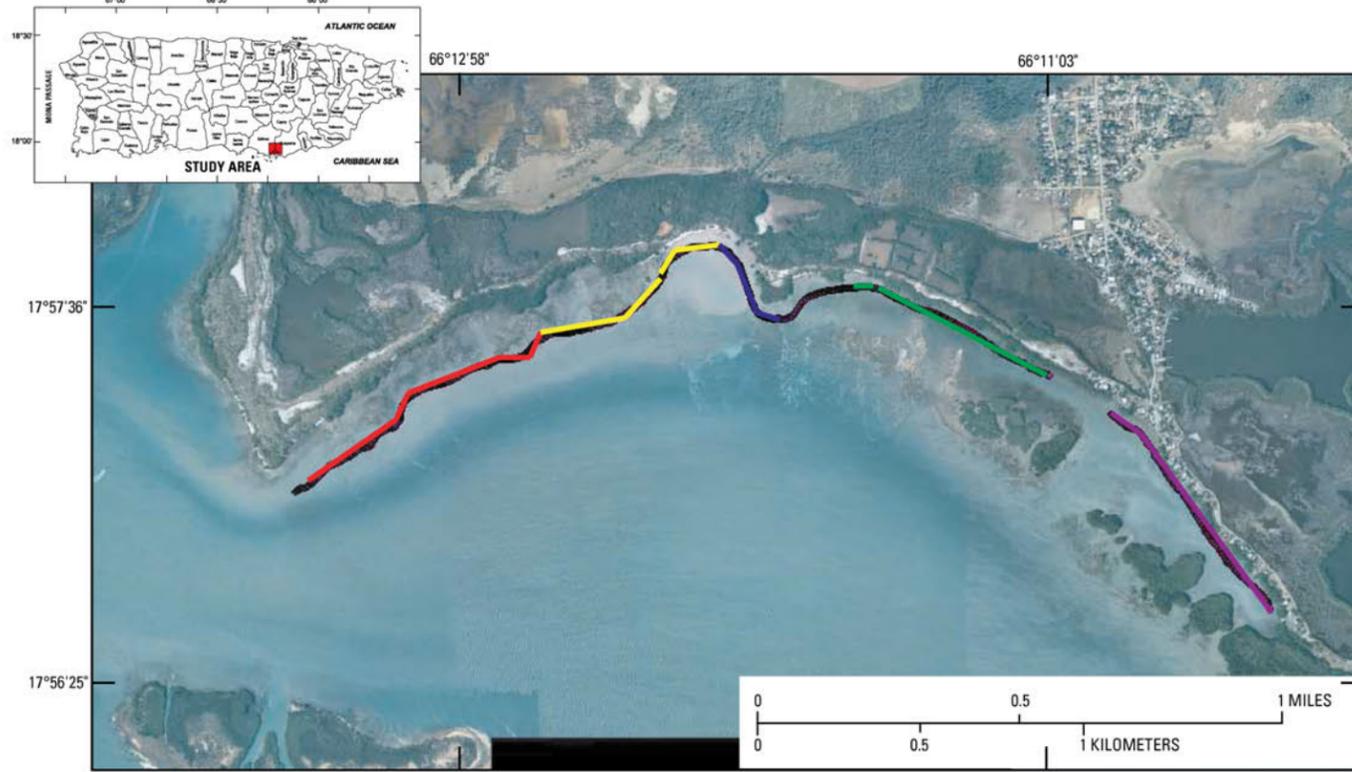


Plate 6f. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 4A through 4E.



EXPLANATION

- Survey line 5A
- Survey line 5B
- Survey line 5C
- Survey line 5D
- Survey line 5E-E'

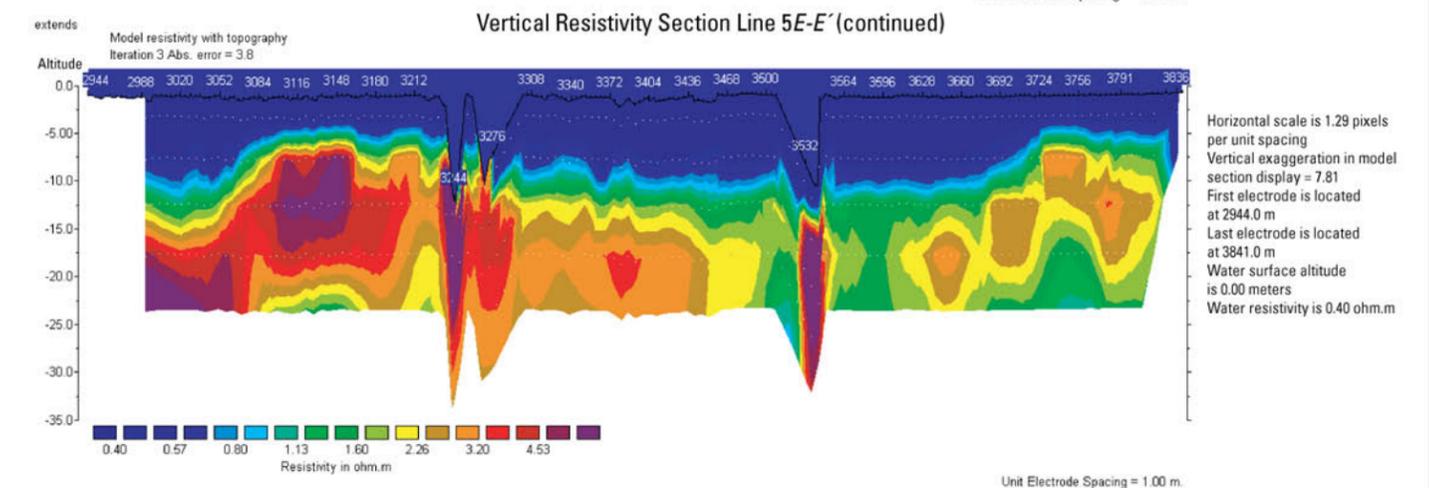
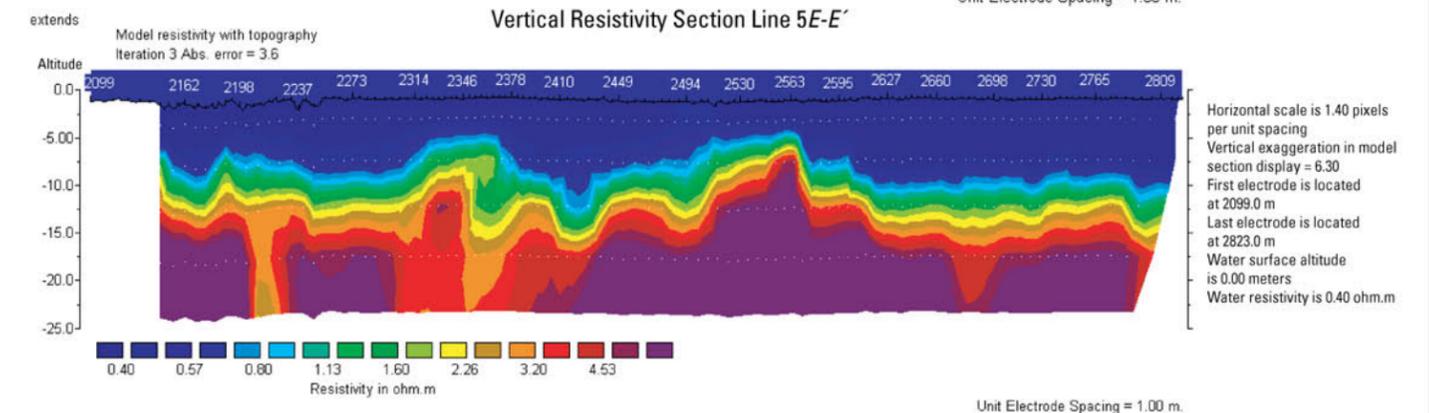
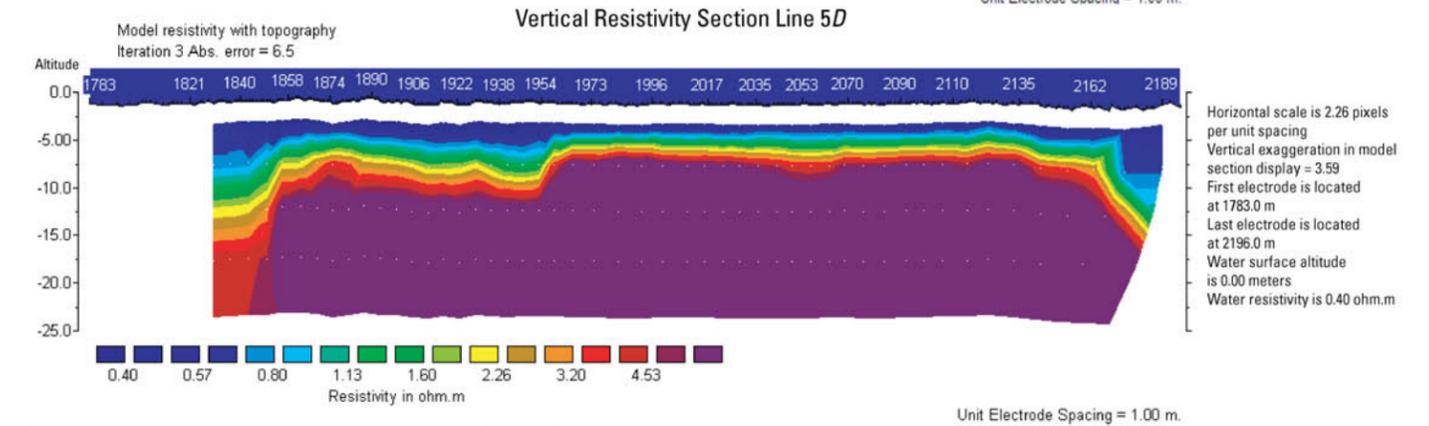
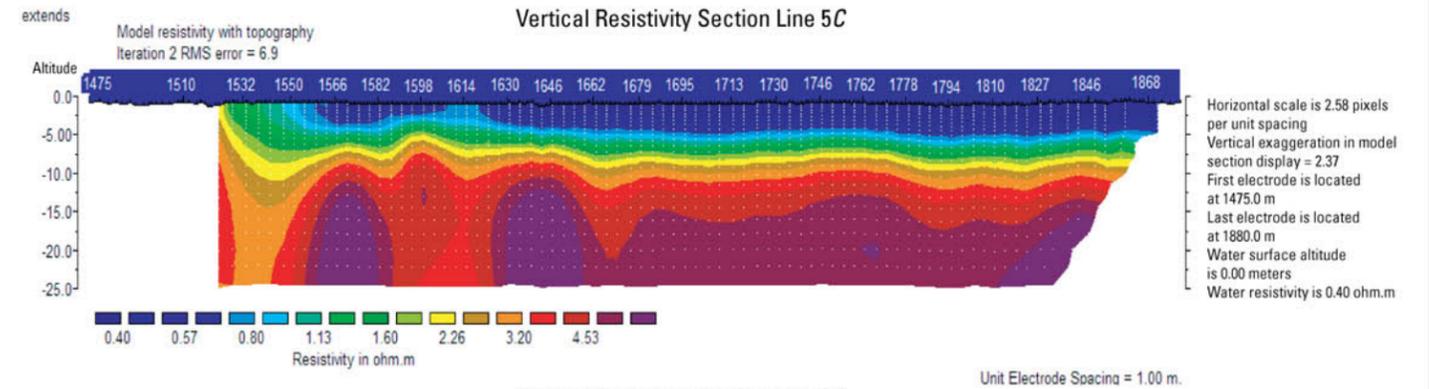
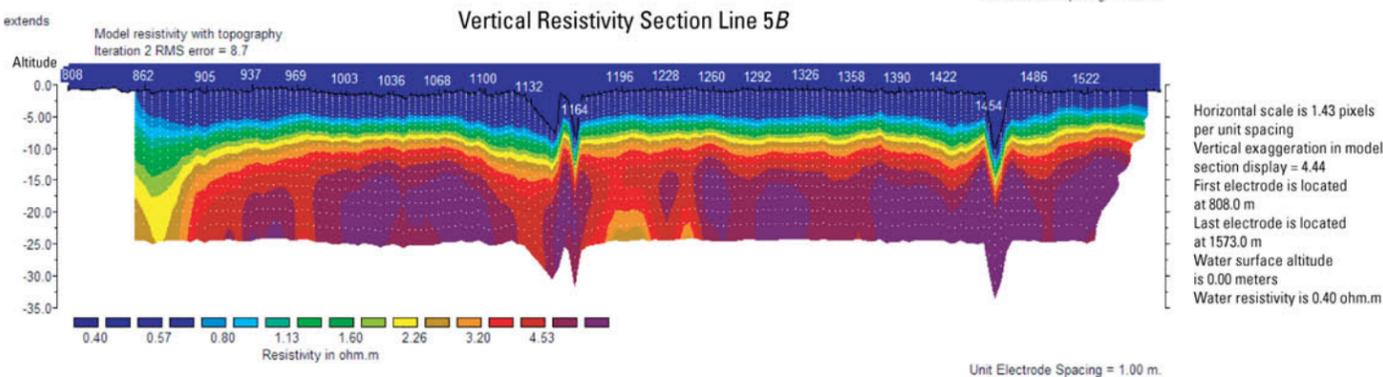
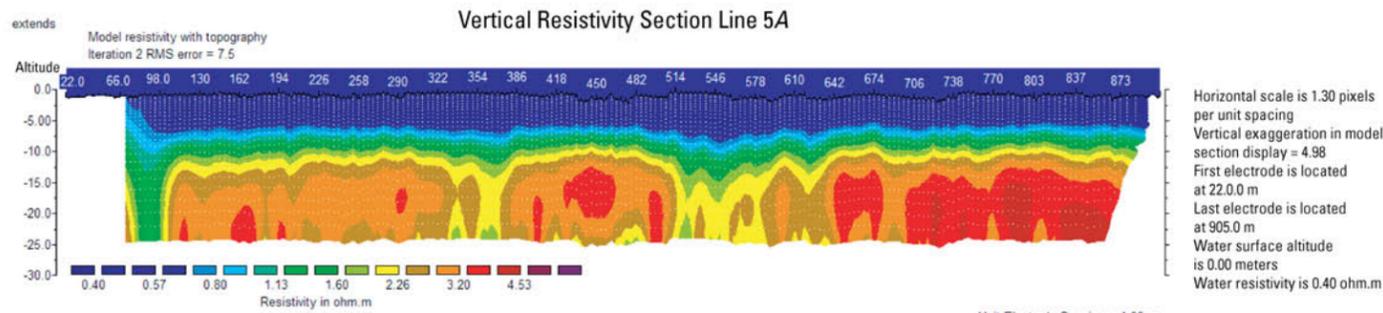


Plate 6g. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 5A through 5E'.

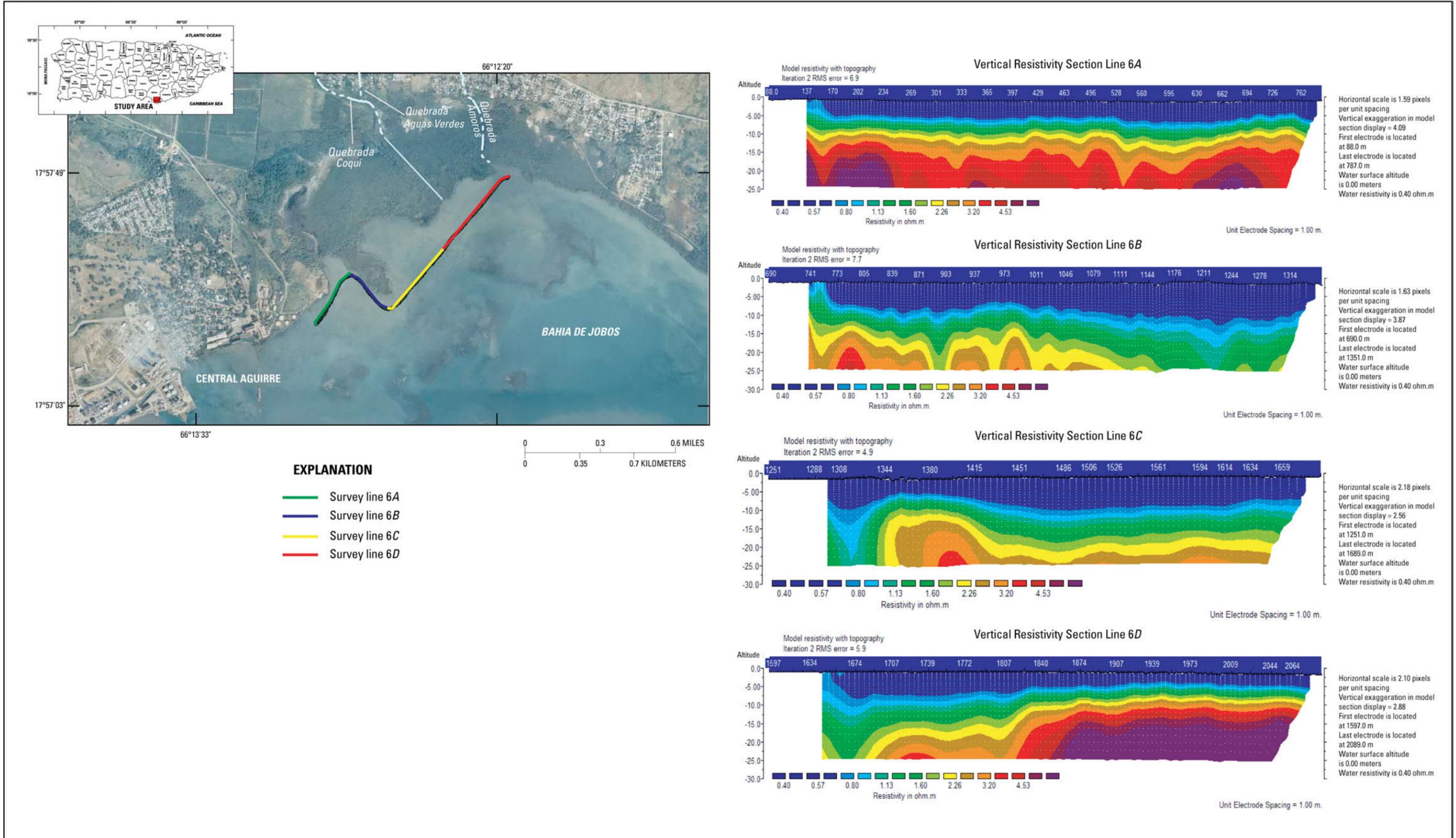


Plate 6h. Transects of Continuous Resistivity Profiles and corresponding Interpretation of the distribution of resistivity with depth along survey lines 6A through 6D.



Base from U.S. Army Corp of Engineers. DOQQ 2004 orthophotos for the quadrangles of Coamo, Salinas, Cayey, and Central Aguirre. Lambert conformal conic projection. Datum NAD 1927

Plate 7. Estimated spatial distribution of the base of the South Coast aquifer within the study area.