Flanagan, G. Campbell, C. L., Kilsdonk, B., Maler, M. O., Bird, D. E., and Kirkham, K. L., 2001, **Integrated gravity, magnetic and seismic study offshore Brazil** (abstract): European Association of Geoscientists & Engineers, 7th International Congress of the Brazilian Geophysical Society, Salvador, Brazil.

Seismic data quality in the area of the Campos, Santos, and Espirito Santos Basins is limited at depth due to the presence of significant amounts of salt. We used classic gravity and magnetic interpretation integrated with regional seismic and geology to study the regional tectonics, basin architecture, thermal history and salt distribution in offshore Brazil. Analysis of high quality regional gravity and magnetic data improved our understanding crustal thinning, definition of the pre-salt basement depth and architecture, and distribution of salt canopies. Our analysis included regional and detailed 2D gravity and magnetic models, automated depth to basement analysis, and key enhancements of the mapped data. A key to the success of the project has been the integration of the seismic interpretation through remote access and a close working relationship with the project team including contractors, through regular working visits and reviews. Results were integrated continuously with the project team and focused on: 1) interpretation of deep structure, salt thickness and extent; and 2) evaluating source rock potential, thermal history, and migration pathways on both a regional and block specific basis.