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Structural Interpretation in Color – A new RGB processing application for seismic data Andreas Laake

Structure-sharpened continuous red-green-blue (SRGB) color processing allows the interpreter to explore seismic data more thoroughly for geologic features, facilitates the extraction of structures or geobodies along horizons for them, and provides a visualization environment for the interpretation of geologic objects in their spatial context. SRGB-textured horizons and geobodies offer an intuitive interpretation similar to the way satellite images provide visual information about the surface of the earth. A case study that I conducted from the Green Canyon area in the Gulf of Mexico, which is located across the escarpment from the salt canopy to the abyssal plain, illustrated that the SRGB method delivers subtle structures from geologic and flow processes at the seafloor, helps delineate and understand salt sutures and impurities, and provides details about individual stages in deepwater mass transport systems. With all geologic aspects combined, the SRGB method assists in the mapping and assessment of shallow drilling hazards such as gas hydrates and seafloor instabilities.

John was born in Kuching, in Sarawak on the north coast of the island of Borneo, where his father was a colonial administrator in the latter days of the British Empire. After returning to Britain he completed his secondary education at St. Christopher's School, Letchworth, Hertfordshire. He then went on to complete a B.Sc. in Environmental Sciences at the world-famous University of East Anglia, Norwich, Norfolk. After a trip to Spitzbergen (Svalbard) and several months hitchhiking around Europe working as an agricultural laborer, his future wife put her foot down, and persuaded him to take a "real job".

John accepted a job with CGG in London where he started working on land and transition zone projects. In 1982 he accepted a 2-year assignment to Denver, Colorado, and somehow never went home. He filled various technical and supervisory positions at CGG until 1989 when he took a position at Western Geophysical later WesternGeco. He is currently Technical Coordinator at WesternGeco in Denver.

John is interested in all aspects of seismic data, with experience processing projects from all over the world, including, land, marine, OBC and multi-component. His current technical focus is depth imaging, with an emphasis on integration of well data with seismic data for enhancing the use of seismic in resource plays.