Paper 22

A comparison of 3-D one-pass migration algorithms

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During 1993 a number of 3D surveys have been processed for SSB/SSPC by processing contractors in Kuala Lumpur and Singapore. In order to select the optimal 3D migration algorithm for each of the surveys, the contractors were asked to do a number of tests using various algorithms and parameter settings. The results of those tests will be shown together with a brief theoretical introduction to each method and will also be compared to those of a 3-D one-pass migration performed inhouse using Shell software. Strengths and weaknesses of the various methods are evaluated.