

SEISMIC DATA PROCESSING INCLUDING INTERNAL MULTIPLE MODELING WITHOUT SUBSURFACE INFORMATION

ABSTRACT

A system and method are disclosed for substantially eliminating the influence of internal multiples when seismic mapping under-water geographical areas of interest without *a priori* knowledge of subsurface information. The system and method iteratively locate multiple-generating horizons for predicting internal multiples and uses a lower-higher-lower relationship between the multiple generating horizons. The system and method provide an appropriate and cost-effective means for internal multiple attenuation without subsurface information.

Fig. 10