

Large Scale 3D Marine Seismic Exploration

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In recent years there has been a significant increase in the use of three dimensional seismic surveys. Because of the large volume of data which has to be collected and processed such surveys have been generally restricted in areal extent and therefore have been used primarily as a tool for field development rather than for exploration.

In some circumstances it is possible to design surveys which will lead to a full 3D migrated data volume without the need to collect significantly more data than is necessary for a detailed 2D survey.

Criteria for designing such surveys will be discussed together with details of collection and processing techniques. These methods will be illustrated using results from a survey which has been recently completed.
