

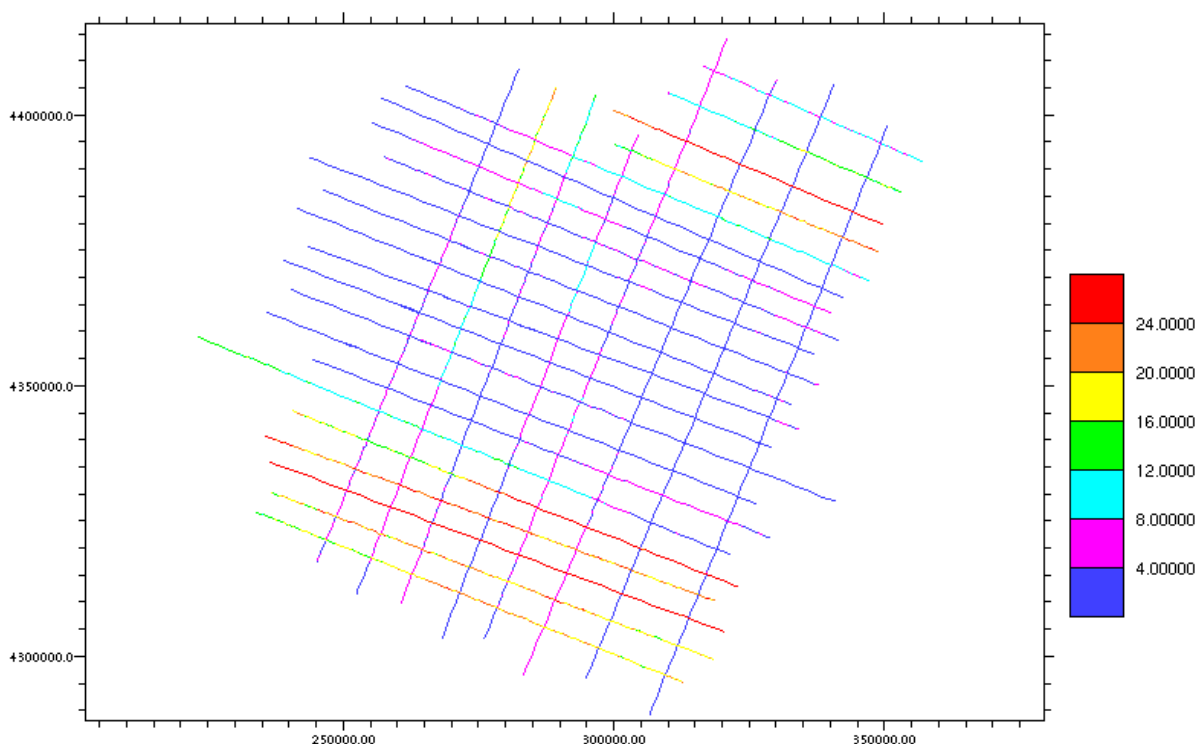
VMON (Vertical Velocity Monitor)

In detailed studies of LaCoste & Romberg gravity meter data, it has been found that the short-period vertical velocity measured by the gravity sensor is a definitive means of estimating processed gravity data quality. The Vertical Velocity Monitor (VMON) is a method of measuring quality that is related directly to that vertical motion. VMON is calculated from the one-second standard beam position value and is recorded as a velocity in centimetres per second. Through research of the characteristic comparisons between the LaCoste and Romberg gravity meters and the Bell BGM3 gravity meter, Fugro-LCT have been able to develop a VMON equivalent for the BGM3.

Experience from previous surveys by Fugro-LCT has established the following guidelines for relating the Vertical Velocity Monitor to the final processed gravity data quality:

Vertical Monitor Value	Expected Processed Gravity Data Quality
Less than 8 cm/sec	0.2 mGal at wavelengths of 500m and greater
8 - 24 cm/sec	0.2 to 0.5 mGal at wavelengths of 2km and greater
24 - 40 cm/sec	0.5 to 1.0 mGal at wavelengths of 4km and greater.

The VMON value is included on all data snapshots. This provides an objective measure of how much the gravity meter is being disturbed by vessel motion and enables a clear assessment as to whether or not any noise seen in the processed gravity data is consistent with the prevailing sea states.



A plot of VMON values along each survey line is included in the final report

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