

# WORKFLOW AND QA PROCEDURES

Fugro-LCT processing centres have adopted a series of workflow and QA procedures to ensure the quality of the final processed data.

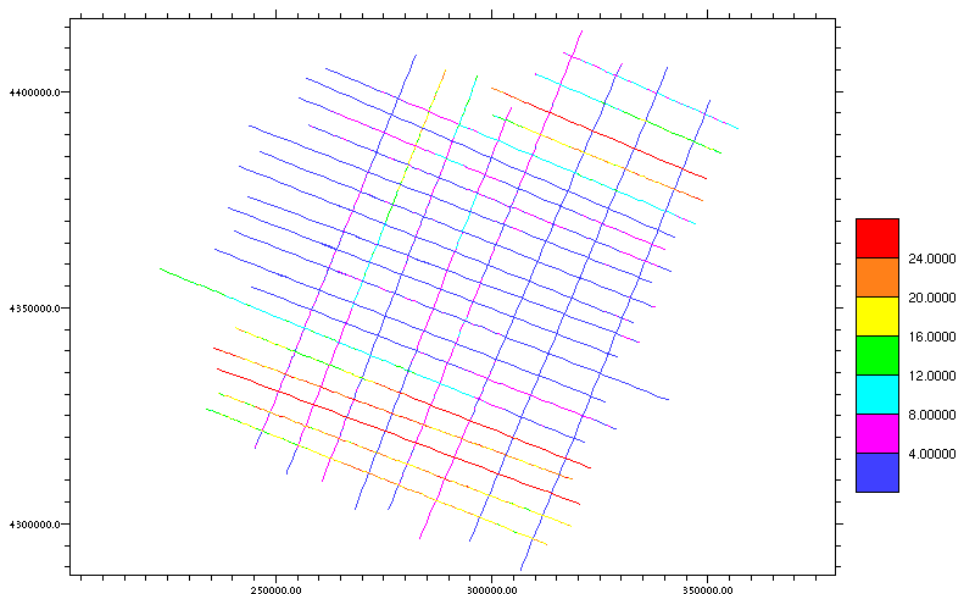
On completion of the data loading all data are checked on every line for data quality and coherence. Erroneous data is removed or edited. A log is maintained of these edits. A pre-programmed processing sequence is then followed in the reduction of raw data to anomalous fields.

Each line of data is reviewed individually and Eötvös decorrelation parameters and the level of filtering appropriate for that line are chosen by an experienced geophysicist.

Intersection mistie statistics are computed and evaluated. These misties are reviewed by a senior geophysicist prior to data adjustment.

The unlevelled data grid is subtracted from the levelled data grid to ensure that the levelling process has removed only line-orientated effects without introducing intermediate or long wavelength distortion.

QC products in the processing report include histograms of intersection misties. These statistics give an assessment of the data quality and the RMS mistie after adjustment is indicative of the minimum anomaly resolution. In addition, a complete listing of the filtering applied to each line is included. Generally, the higher the sea state the more filtering of the gravity data is required, so that this also gives a good indication of the final data resolution.



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

Also included in the report is a colour figure showing the VMON value for each line. Experience from previous surveys by FUGRO-LCT has established guidelines, also included in the report, for relating the Vertical Velocity Monitor to the final processed gravity line data quality.

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