Future bathymetric models should improve with better marine gravity fields.

For GEBCO purposes, we want to exploit the correlations between satellite gravity and bathymetry.

Gravity anomalies arising from small seafloor features are:
- more accurately located
- better resolved
- abyssal hill trends are emerging

Future bathymetric models should improve with better marine gravity fields.

Incorporating New Satellite Data Improves Marine Gravity Field

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Summary

Adding recent satellite data has significantly improved the marine gravity field for GEBCO purposes, we want to exploit the correlations between satellite gravity and bathymetry.

The portion of the gravity field that is correlated with bathymetry improved the most in areas having smooth seafloor and subdued gravity anomalies.

Gravity anomalies arising from small seafloor features are:
- more accurately located
- better resolved
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Future bathymetric models should improve with better marine gravity fields.