


GEBCO 100 Proposal

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GEBCO-100 Proposal

Two Core GEBCO bathymetry products:

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1. Existing 30 arc sec uniform coverage for global ocean (+ attribution + error estimates)
 2. *New* GEBCO 100m synthesis (+ attribution + error estimates)

GEBCO-100 Proposal

1. LDEO would contribute its existing 100m compilation to the GEBCO 100m synthesis
2. LDEO would serve as Data Assembly Center for new 100m data sets contributed by the International Community
3. LDEO would provide tools to GEBCO Editorial Board to evaluate new data sets
4. After data sets are corrected/approved, merge with existing GEBCO 100m and provide to BODC for incorporation into GEBCO 30 arc sec synthesis

GEBCO-100 Workflow

Data Contributors



Feedback to contributors to correct errors



GEBCO Editorial Board
Regional Mapping Groups

Tools provided to evaluate new contributed grids

Approved 100 m Grids

100 m initial and corrected grids



GEBCO100m
Data Assembly
Center (at LDEO)



GEBCO
30 arc sec
Data Assembly
Center (at BODC)

100m compilation forwarded to BODC

Data assembled for evaluation within existing GEBCO



Tools Provided to GEBCO Editorial Board for Data Evaluation:

- ✓ View grids with tools to dynamically adjust colors, sun illumination, display as profiles
- ✓ Compare data with other data in region
- ✓ Review data at multi-resolution (e.g. from 100m to 30 arc sec)

Features of proposed GEBCO-100

- Dynamically maintained - new version available as new approved datasets are merged into synthesis
- Provide full tracking and attribution to contributing data source along with the data synthesis
- Mask to highlight areas of 100-m resolution coverage

**All components can easily feed into GEBCO infrastructure*



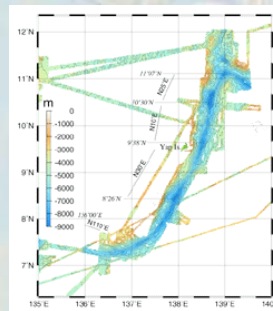
GEBCO 30s



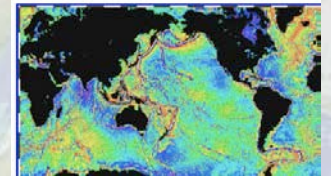
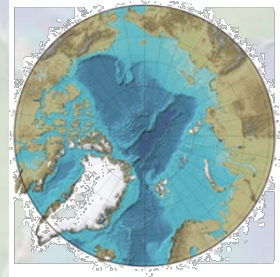
GEBCO Editorial Board



GEBCO 100



Regional Compilations
($> 100\text{m}$ resolution)



Predicted
Bathymetry



Sonar Data Contributions

Technical Proof of Concept

- Merge foreign data contribution using existing infrastructure ✓
- Attribution to data provider ✓
- Mask ✓
- *Data source description (full specs TBD)*
- *Uncertainty estimates (specs TBD)*