

# **GEBCO**

***at the National Oceanography Centre, Southampton***



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*very different from even two years ago*



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*greatly reduced time resource*

*very greatly reduced travel budget  
(and likely to be even more reduced)*



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*.....Project almost cut from NOC this year*



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***at the National Oceanography Centre, Southampton***

*The role of Bathymetric Editor*

*essentially what I do for GEBCO is ...*



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*liaise with Digital Atlas Manager  
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respond to public questions*



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*respond to public questions*

*(try to) organise mtgs for Regional Mapping Projects*





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*solicit data from 3<sup>rd</sup> parties (industry and projects)*



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*respond to public questions*

*(try to) organise mtgs for Regional Mapping Projects*

*solicit data from 3<sup>rd</sup> parties (industry and projects)*

*update grid areas*



# **GEBCO**

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**In the following slides I have “reflected”  
the questions posed by Chris in his agenda**



# **GEBCO**

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**Where does your organization obtain data?**



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**Where does your organization obtain data?**

*NERC has a number of component  
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in UK universities*

*All successful applicants for [NERC] funding are required  
to produce a full data management plan, in conjunction  
with the relevant NERC data centre*



# GEBCO

*at the National Oceanography Centre, Southampton*

**Where does your organization obtain data?**

*from its own cruises and/or projects  
from European projects  
e.g. SWIM*





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*by request and/or submission from other*

*organisations - people*

*e.g. Dutch Hydrographic Office*



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*e.g. Dutch Hydrographic Office*

*GEBCO presentation at the  
International Cable Protection Committee Plenary Meeting  
12-14 April 2011*



# **GEBCO**

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**How do you manage your data?**



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**What tools and methods do you use  
to clean and disseminate your data?**



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*on-board – SIMRAD\*, CARIS, CARAIBES\**

*\* not me.....*



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*\* not me.....*

*ashore – CARIS, Fledermaus, GMT*



# GEBCO

*at the National Oceanography Centre, Southampton*

How do you manage your data?

How do you assess the quality of your data?

*manually.....*



# GEBCO

*at the National Oceanography Centre, Southampton*

**How do you manage your data?**

**How do you assess the quality of your data?**

*manually.....*

*crossover errors  
edge matching*



# GEBCO

*at the National Oceanography Centre, Southampton*

**How do you manage your data?**

**How do you describe and document your data?**

*poorly.....*

*ad-hoc and non-standard to my knowledge...*



# GEBCO

*at the National Oceanography Centre, Southampton*

**How do you grid your data?**

**What is your gridding process?**

*dependant upon data*

*if there are many “small” areas or sections these are added together (usually in GMT) to make one grid*

*visual examination of ps file to see obvious errors and/or gaps*



# GEBCO

*at the National Oceanography Centre, Southampton*

**How do you grid your data?**

**What is your gridding process? (cont)**

*view in Fledermaus to see “noise” levels*

*manually edit grid*

*check in ArcGIS differences with existing grid*



# **GEBCO**

***at the National Oceanography Centre, Southampton***

**How do you grid your data?**

**What tools do you use?**

***Fledermaus, GMT, ArcGIS***



# GEBCO

*at the National Oceanography Centre, Southampton*

**How do you grid your data?**

**How do you evaluate your grid?**

*check in ArcGIS differences with existing grid*

*manually – edge matching*



# GEBCO

*at the National Oceanography Centre, Southampton*

How do you grid your data?

How do you update your grid?

*use GMT or Global Mapper to embed  
within GEBCO\_08 grid*



# GEBCO

*at the National Oceanography Centre, Southampton*

How do you grid your data?

How do you document your grid development?

*er.....*

*pass the buck to BODC*



# GEBCO

*at the National Oceanography Centre, Southampton*

**What are the limitations of the methodologies  
and tools that you currently use?**

*at present..*

*my infrequent use and knowledge  
limitations of software (linked to above)*





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*In future..*

*I see the greatest threat is NOC continuing funding*



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*a clear and defined role*

*a significant contribution to the project (GEBCO)*

*regular grid updates and no overlap with other projects*

*(within Europe and US)*



# **GEBCO**

*at the National Oceanography Centre*

**Within NERC .....**

*at present..*

*NERC, through BODC are reviewing data archival*



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***NERC, through BODC are reviewing data archival  
beginning to store multibeam data  
(xyz and .raw files) plus metadata***



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**Within NERC .....**

***at present..***

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beginning to store multibeam data  
(xyz and .raw files) plus metadata***

***Quality Control left to individual “collecting” scientists***





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**Within NERC .....**

*Data retrieval*

*by initial registration, then cruise and/or area selectable*



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**Within NERC .....**

*Data retrieval*

*by initial registration, then cruise and/or area selectable*

*some restrictions on availability dependant upon  
scientific project (time limit to allow work-up)  
if data is from proprietary sources*

# **GEBCO**

***at the National Oceanography Centre***

**Within NERC .....**

*Data retrieval*

*should also be via portals such as*

*Geo-Seas --- [www.geo-seas.eu](http://www.geo-seas.eu)*

*MEDIN*

*(Marine & Environmental Data and Information Network)*

*[www.oceannet.org](http://www.oceannet.org)*



# **GEBCO**

*at the National Oceanography Centre*

**Questions....**



