









SCAR Expert Group on IBCSO Report to GSSG

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Retrospect

- Ad-hoc GEBCO-Meeting in Durham, May 2002
- IBCAO-Meeting in Hawaii, November 2002
- IOC-CGOM @ GEBCO Centenary Conference 2003



- Adoption: XXXVII IOC EC (Res. EC-XXXVII.5), 2004
- Kick-Off Meeting XXVIII SCAR, 2004
 - > SCAR GSSG Expert Group
- Implementation of the IBCSO EG Infrastructure





IBCSO is supported by:

SCAR Standing Scientific Group on GeoSciences (SSG-GS)

Intergovernmental Oceanographic Commission (IOC)

Hydrographic Commission on Antarctica (HCA) of IHO

General Bathymetric Chart of the Oceans (GEBCO)





Primary Goal:

Production of a high quality bathymetric chart of the SO Marine geodata base for Antarctic sciences



Secondary Goal:

combine this DB with existing spatial geophysical, geological, glaciological, oceanographic data sets, etc., forming the Southern Ocean Geographic Information System







Network of institutions & data centers:

AAD: Australian Antarctic Database

AWI: Alfred Wegener Institute & PANGAEA

BAS: Antarctic Digital Database (ADD)

BODC: GEBCO Digital Atlas (GDA)

LDEO: GeoMapApp / AMBS

NGDC: IHO Data Center for Digital Bathymetry

NOAA: National Geophysical Data Center

etc.





Recent data contributions:

Australia (Macquarie Island, Kerguelen Plateau)

Germany (Weddell Sea, Cooperation Sea)

Japan (Cosmonaut Sea)

New Zealand (Ross Sea)

United Kingdom (Scotia Sea, Bellinghausen Sea)

United States (BS, Amundsen Sea)

Ukraine (Antarctic Peninsula)

etc.





Integration with existing products:

Antarctic Digital Database (ADD)

Radarsat Antarctic Mapping Program (RAMP)

Antarctic Bedrock Topography (BEDMAP2)

Antarctic Digital Magnetic Anomaly Project (ADMAP)

Earth Topography (ETOPO2v2)

General Bathymetric Chart of the Oceans (GEBCO)

Sea and land nomenclature (SCUFN - CGA)

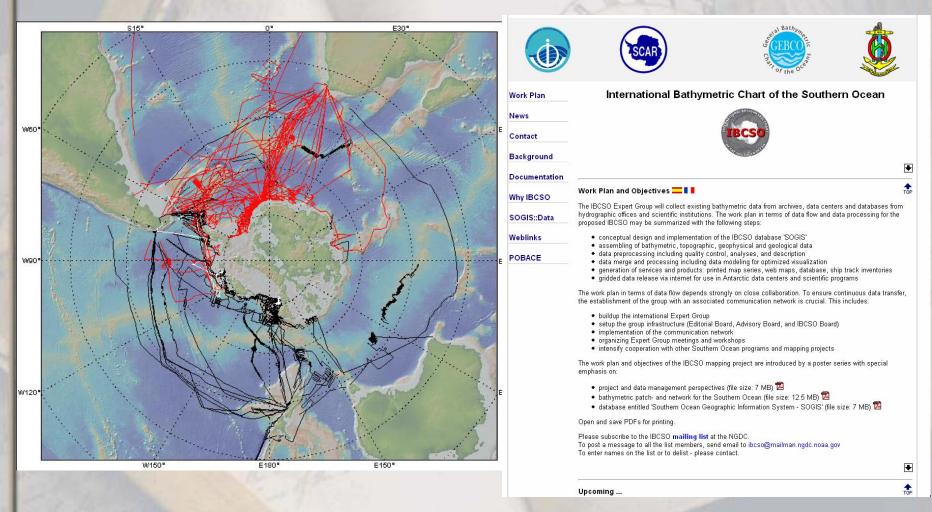
Gravity data from Satellite missions, etc.

will lead to SOGIS





Review of completed actions:







Joint SCAR / IBCSO / IHO actions

- SCAR/SCOR Circular 768 calling international support for IBCSO
- SCAR Circular 770 requesting nominations for natl. representatives to IBCSO
- Resolution 5 of XXXI ATCM in Kiev: requesting to improve OM in Antarctic waters





Deliverables

- Grids
- Contours
- DTM
- Shape files
- Meta data

SCAR/ADD
GEBCO GDA
BEDMAP
SOOS

from future IBCSO/SOGIS web portal





Meetings/Outreach

IBCSO discussed/presented at Meetings:

1st IBCSO Business Meeting at the IAESC GEBCO/SCDB/GC Meetings (4) IHO/HCA Meetings (4) SCAR SC-AGI (1)

IBCSO Publications and reports:

EOS Transactions (1)
Hydro International (2)
Posters (3)
Talks (3)





Next Actions

- 1. Strengthen/enlarge the IBCSO EG
- 2. Activate the IBCSO infrastructure (EB/AB/IB)
- 3. Implement a SOGIS communication network
- 4. Organise intersessional EB-Meetings
- 5. Cooperation with other SO mapping programs



The IBCSO Network





International Hydrographic Organization / HCA



Intergovernmental Oceanographic Commission



Scientific Committee on Antarctic Research



General Bathymetric Chart of the Oceans



- IBC of the Southern Ocean

and SCAR Member institutions



Thank you!