



SCAR

GEOGRAPHIC INFORMATION GROUP

DRAFT WORK PLAN 2006-2008

Created by EGGI project coordinators at
EGGI Project Coordinators Meeting, July 6th-7th, 2006

Terms of reference

Understanding that geographic location is a fundamental element for integrating and communicating Antarctic science knowledge, the GI group aims to create an Antarctic spatial data infrastructure (ANTSDI) by:

- Providing Antarctic fundamental geographic information products and policies in support of all SCAR science programs and operations management
- Integrating and coordinating Antarctic mapping and GIS programs
- Promoting an open standards approach to support free and unrestricted data access
- Promoting capacity building within all SCAR nations

1. Place Names (SCAR Composite Gazetteer)

Project Leader: Italy - [Prof Roberto Cervellati](#)

Collaborators: all SCAR member countries

Activities:

1. Continue to collect descriptions and dates of approval, for new or modified entries include source of co-ordinates
2. Address non-responding countries via letter through SCAR delegates / COMNAP delegates / Place Names Committees
3. If countries supply names for submarine features advise GEBCO
4. Investigate links to existing gazetteers for place names north of 60° South
5. Italy, Australia to discuss AADC hosting of website and database and enhance content
6. Development of a policy for the future of the CGA

2. SCAR Antarctic Digital Database (ADD)

Project Leader: UK - Mr Adrian Fox

Activities:

TBD and pending on approval by project coordinator

1.

3. SCAR Map Catalogue

Project Leader: Australia - [Mr Henk Brolsma](#)

Collaborators: all SCAR member countries

Activities:

1. Relevant countries to check existing entries and to add new or missing ones
2. Define additional fields if necessary
3. Evaluate inclusion of SCAR geological map catalogue (at BAS)
4. Link US and BAS thumbnails into the map catalogue
5. Request countries to provide thumbnail scans of their maps
6. Redesign web interfaces

4. SCAR King George Island GIS (KGIS)

Project Leader: Germany - [Mr Steffen Vogt](#)

Collaborators: Argentina, Brazil, Chile, China, Germany, Poland, Russia, South Korea, UK, Uruguay

Activities:

1. Continue obtaining and integrating data
2. Maintain database and website
3. Promote KGIS amongst user / data producers addressing specifically IPY projects
4. Establish / maintain close links to GIS projects on King George Island
5. Create near shore bathymetry
6. Adopt symbology from SEAL

5. SCAR Feature Catalogue

Project Leader: Australia - [Mr Henk Brolsma](#)

Collaborators: Paul Cooper, Cheryl Hallam, Peter Pulsifer, Steffen Vogt

Activities:

1. Continue developing the SCAR Feature Catalogue
2. Ensure compliance to and investigate implementation of ISO TC211 and OGC standards
3. Implement versioning

6. SCAR Symbology

Project Leader: tbd

Collaborator: Australia

Activities:

1. Continue developing SEAL (Symbol Editor and Library)
2. Produce SLD (OGC Styled Layer Descriptors) based symbols
3. add functionality required for SCAR to SEAL

7. Geospatial Information - Enabling Technologies

Project Leader: USA - [Mr Jerry Mullins](#)

Activities:

1. Integration of on-line geospatial information from distributed web services
 2. Produce a report on the results from using of airborne GPS digital cameras and navigation based photogrammetry for near real-time mapping in Antarctica
 3. Promote the use of the produced data in the scientific community
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8. LIMA (Landsat Image Mosaic for Antarctica)

Project Leader: USA - [Mr Jerry Mullins](#)

Collaborator: British Antarctic Survey (Adrian Fox), NASA (Bob Binschadler)

Activities:

1. Production of a continent wide Landsat and MODIS image mosaic for Antarctica using Landsat-7 data
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9. SCAR Cybercartographic Atlas of Antarctica

Project Leader: Canada - [Prof D.R.Fraser Taylor](#)

Activities (Pending on funding):

1. Release Atlas Version 1 (11-2006)
2. Seek new funding
3. Develop atlas content in collaboration with national and international partners
4. Further develop atlas development framework

Activity plan pending confirmation of approval of funding proposals. Confirmation 10/2006

10. Allan Hills Place Names Map

Project Leader: New Zealand / Australia / USA / Italy (Henk Brolsma)

Collaborators: Wendy Shaw, Jerry Mullins, Roberto Cervelati

Activities:

1. Identify area of interest
 2. Identify existing maps and provide in digital form
 3. Identify existing names and coordinates
 4. Agree to change coordinates as required
 5. Produce a map showing the updated locations of names
 6. Provide improved and new information to the SCAR CGA
 7. Report on issues overcome
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11. Larsemann Hills Place Names Map

Project Leader: Australia / China (Henk Broisma, Dongchen E)

Pending on agreement from Dongchen E

Activities:

1. Identify area of interest
 2. Identify existing names and coordinates
 3. Agree to change coordinates as required
 4. Produce a map showing the updated locations of names
 5. Provide improved and new information to the SCAR CGA
 6. Report on issues overcome
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12. East Antarctica GIS

Project Leader: Russia - [Mr Alexander Yuskevitch](#)

Pending on advice from Mr. Yuskevitch this project is put on hold

Activities:

1. Prepare a geodetic control information table of all ground control
 2. Compare digital topography between Davis and Molodezhnya for Russian, Chinese, Japanese and Australian data
 3. Integrate 2004/05 ground control from Davis to Amery Ice Shelf
 4. Compare and correlate digital data in selected areas progressing westwards from Davis
 5. present progress to SCAR XXIX
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