



SCAR EXPERT GROUP GEOSPATIAL INFORMATION

## DRAFT WORK PLAN 2006-2008

Created by SCAR EGGI at  
SCAR EGGI Business Meeting, July 8<sup>th</sup>/10<sup>th</sup>, 2006

**as of July, 8<sup>th</sup>, 2006**  
**Pending final confirmation on July 10<sup>th</sup>, 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 Coordinator: Italy - [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

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### 2. SCAR Antarctic Digital Database (ADD)

Project Coordinator: UK - [Adrian Fox](#)

#### Activities:

1. Release of V5 by end 2006
2. Another appeal for Sub-Antarctic data
3. Incorporate BEDMAP by end 2007
4. Refine webmap software to handle raster data
5. Link ADD to USGS/NASA/BAS Landsat mosaic for IPY
6. Continue to add new data

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### 3. SCAR Map Catalogue

Project Coordinator: Australia - [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

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### 4. SCAR King George Island GIS (KGIS)

Project Coordinator: Germany - [Steffen Vogt](#)

Collaborators: Argentina, Brazil, Chile, China, 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

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### 5. SCAR Feature Catalogue

Project Coordinator: Australia - [Henk Brolsma](#)

Collaborators: Canada (Peter Pulsifer), UK (Paul Cooper), USA (Cheryl Hallam), Germany (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

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### 6. SCAR Symbology

Project Coordinator: UK - [Adrian Fox](#) (Pending on confirmation from BAS)

Collaborator: Australia (Ursula Ryan)

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 Coordinator: USA - [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 Coordinator: USA - [Jerry Mullins](#)

Collaborator: UK (Adrian Fox), USA (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 Coordinator: Canada - [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

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## 10. Allan Hills Place Names Map

Project Coordinator: Australia - [Henk Broksma](#)

Collaborators: New Zealand (Wendy Shaw), USA (Jerry Mullins), Italy (Roberto Cervellati)

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 Coordinators: Australia / China - [Henk Broksma](#) / [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. Antarctic Coastal Change Project

Project Coordinator: USA - [Jerry Mullins](#)

Collaborators: Australia (Henk Broksma)

Project Pending depending on approval by AADC

### Activities:

1. tbd (JM and HB to define exact area of interest and required data)
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## 13. SCAR Grove Mountains GIService Portal (GMGP)

Project Coordinator: China - [Dongchen E](#)

Collaborators: Australia (Henk Broksma), Russia (tbd)

### Activities:

1. GPS Control Point Database
  2. Topographic database
  3. Satellite Imagery Database from large scale to small scale
  4. DEM Database
  5. Meteorite Distribution Database
  6. Grove Mountains GI web service Portal
  7. Decision Service for Antarctic Expedition
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## 14. East Antarctica GIS

Project Coordinator: Russia - [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