

**Mini Program Coordinators meeting  
Canberra 9 February 1999**

**Drew Clarke (DC), John Manning (JMa), Lee Belbin (LB), Glenn Johnstone (GJ) - Australia  
Janet Thomson (JT) - UK and Jerry Mullins (JMu)- USA**

## **GIANT Program**

*See John Manning's report.*

### **Permanent Observatories project**

JT - German's have put in a permanent GPS tracker at Rothera - Ed King (BAS) is the contact.  
[JMa - to follow up with Ed King].

JT - for a new fully automatic permanent GPS site Sky-Hi (depot and a rock nunatak) would be a good place for permanent tracker (in the high latitude Peninsula region).

DC - Should the Permanent Observatory sites on the web be integrated into ADDS? - further discussions required

JMu - Possibly allow countries to input their own Permanent Observatory site information.

GJ - Look at DIF metadata guidelines to use on Permanent Observatory site files

JMa Daily solutions done for all GPS perm sites (except Amundsen-Scott) for IGS - IERS  
VLBI @ O'Higgins - Germans have sent a summer team and hope to do a joint session with  
Syowa  
ANTEC - composition of the proposed members looks unbalanced.  
No action on the evaluation of accurate local ties between co-located techniques  
No action on facilitating tide gauge data to SOSLC.

### **Epoch Campaigns**

Kevin Dixon is looking after guidelines (recommended practice) for monumentation - underway and still more work to do.

Reinhard Dietrich continues to coordinate austral summer GPS Epoch campaigns - see his report (attached to agenda papers)

Germany and Australia undertaking some work on GPS connections to tide gauge bench marks - needs further promotion to other WG members.

AUSLIG results from epoch campaigns (as well as permanent observatories) have been sent to IGS.

AGS99 - SCAR Report could be used to publish proceedings - JMa to follow up with Jan Cisak. Results of epoch campaigns to be published at the AGS99 meeting.

**Physical Geodesy:** Alessandro has reported there has been a slow start on this project until all the data have been collected. AUSLIG has started on an evaluation of EGM96 improvement over OSU91. AUSLIG has the capability to assist in the computation of a high resolution geoid model. JMa to talk with Alessandro Capra regarding this.

**GLONASS** - September 1999 before any results. Three new satellites launched late last year.

**DGPS** - standards work started, something by mid-year for Warsaw (JMa to notify COMNAP on standards). Power requirements for DGPS base stations is also being examined.

**Remote Observatories** - status report on activities due at Frankfurt meeting.

### **Information Access**

A paper on GPS in Antarctica ("Datums for Dummies") is required. GJ to prepare with assistance from JMa.

The development of DIF's for geodetic data (in conjunction with JCADM) - session on DIF's and examples of DIF's is required with LB. GJ and JMa to liaise with LB.

The posting of photo idents on the web - the US has done some work. Australia has already done quite a bit with more currently underway.

IAG Commission X, sub-commission on Antarctic Geodesy - JMa and Reinhard Dietrich to co-chair this sub-commission.

## **Geographic Information Program**

What is the TC211 standard for Data Dictionaries? - GJ to investigate.

Standards work - huge effort done by JT whilst in Antarctica. What is needed now is to finalise the data dictionary and publish - a bit more work required on this. JT to liaise with LB. XXVI SCAR is the deadline.

The completion of the standards work also has implications all Antarctic mapping programs (not just ADD and AAD). JT's work to be compared with the Spatial Data Model of the AAD. Also possibly use these new standards for KGIS.

Metadata - the main task is to provide worked examples of completed DIF's for all the types of data that WG-GGI creates. A cover note is required explaining what WG members are required to do regarding metadata. Once metadata is completed then the record has to go back through their own WG's. LB to follow up on what is happening to worked examples of metadata.

Dates for XXVI SCAR in Japan? - GJ to follow-up.

GJ to subscribe to INTEROP list (for news about DIF) - address as supplied in LB's report.

### **Place Names**

Place Names workshop is set down for 15-17 March 99, in Rome. Roberto, Chiara, Joern and Janet will be there. Guidelines for further development to be discussed.

Geographic window search function is required - high priority for web site development as it is the most basic search function that users are likely to require.

DC - will create a one-page info paper to accompany CGA flyer at ATCM meeting

GJ to follow up with Elsevier regarding the publication of the hard copy CGA.

Coordinates issue - no consistency in the provision of coords (with or without decimal places). JT - Raise issue at Rome meeting.

Commitment from Italy on timelines for updating the web site. Long term issues for the CGA to be raised, discussed and hopefully resolved in Rome.

No policy decision yet on database and SCOUT software. The framework that LB uses is a good example. A registered FTP download capability for database is required (by end of 1999). As an interim measure requests for the database are to go through the individuals national naming authority and then they will be supplied with a copy of the SCOUT software.

Database model used by LB may be useful. This model consists of three web interfaces to each database - public search, custodial and public amendment. For example-

Search - [http://aadc-db.antdiv.gov.au/dataaccess/fauna\\_search](http://aadc-db.antdiv.gov.au/dataaccess/fauna_search)

Custodial - <http://aadc-db.antdiv.gov.au/fauna/adminhome>

Public Amendment - [http://aadc-db.antdiv.gov.au/logon/fauna\\_entry](http://aadc-db.antdiv.gov.au/logon/fauna_entry)

LB will shortly supply approximately 2000 minor corrections of locations from the Australian gazetteer (locations checked against most recent digital data).

Regional Names - have to push Joern Sievers on this in Frankfurt. Boundaries can be overlapping. LB has done some work on regions in AAT - will pass to Joern Sievers

### **Topo Database**

Interior of the continent has been improved with ERS-1 data. Coastal data - where available - has been updated. Will be doing a generalised 1:1M version for Global Mapping.

Could be extra funding through money from sales of ADD V.1 for 2 months funding of a person to continue on working on corrections.

Image "quick-look" mosaic (produced by Ken Jezek's group through the RAMP project) could be included in next edition of ADD or linked to Byrd Polar web site. LB to follow-up.

Timelines for completion of the Global Mapping project are required. GJ to investigate with AUSLIG personnel.

### **KGIS**

Work on Jan Cisak in Frankfurt to get going again with the project. The documentation of maps, charts and digital datasets using DIF metadata may be an effective first step in the project.

JT - provide copy of KGI map to Jan and GJ

GJ to ask Cisak re Frankfurt attendance.

### **AGDI**

GJ gave an outline of work to date - including the production of a graphic showing the different fundamental datasets and work on an information paper to be distributed before the Frankfurt meeting.

JT said that in order for the project to increase it's profile there needed to be greater exposure to the Antarctic research community and suggested the idea of producing a poster for ISAES conference in Wellington, NZ. The poster would be based upon the graphic and information paper GJ has already produced. GJ to produce poster for conference.

Status of Coastline, Surface Elevation, Bathymetry and Ice Bed Elevation projects was discussed.

BEDMAP - what are they doing with the ice-free parts of the bedrock? Cutting off the tops of mountains? - GJ to investigate with Matt Lythe, BEDMAP Database Manager.

Signing off on proposed AGDI model is required. DC suggested that Australian SCAR representatives (from the different WG's) should get together and discuss this. Once signed off then the model can be put forward to fundamental dataset providers as the one to conform to when producing their data. GJ to set up meeting with appropriate representatives to discuss AGDI data model.

GJ raised the idea of forming a steering group to oversee the project. DC said that a reference group was probably more appropriate. This would only need to meet informally and infrequently - as the need arose.

## **Maps and Charts Catalogue**

JMu - to bring the database up to date (due by XXVI SCAR). Database updated by Frankfurt meeting and a further year to publish it.

Aust. Ant. Div. to then take over the on-line version - LB liaise with JMu to discuss the format of 6<sup>th</sup> edition of Catalogue and how it will map into the on-line version.

JMu then gave a demonstration of the USGS Antarctic Atlas - very impressive.  
USGS Antarctic Atlas - [http://usarc.usgs.gov/antarctic\\_atlas/start.html](http://usarc.usgs.gov/antarctic_atlas/start.html)  
<http://www-atlas.usgs.gov/scripts/start.html> - the US Atlas (compare similarities to Australian Coastal Atlas)

LB has compiled an extensive catalogue of all AAD holdings and placed this on-line. This could form a model for the new SCAR catalogue. Four steps are necessary:

- 1) compare fields in the existing SCAR catalogue with the AAD catalogue and select the fields to be supported (LB, JMu, JT)
- 2) LB to supply AAD database to JMu to compare holdings and add missing records
- 3) LB to place amalgamated database on-line and request updates and amendments (on-line)
- 4) JMu to publish a dump of the database prior to Tokyo.

## **OTHER**

Discussion item for Frankfurt - proposed policy on Digital data distribution - GJ to prepare paper (see JT email and LB report for pointers to start).

GJ presented a table on satellite imagery missions / launches in the next few years. To be of benefit there needs to be more information and put on the WG-GGI web site. GJ to investigate LB's info on AAD web site, update the table and make live on the web.

## **POLAR RECORD PAPER**

Rome meeting is the final review of the paper - DC to inform other authors that Rome is the deadline for feedback

One example (representing different countries) of each type. All individuals to create a list and then all will be edited into one final table. DC to start - all others to do for Rome meeting.

JT - Confirm the use of GEBCO and the use of IHO/IOC in the paper

## **ACTIONS ARISING FROM CONCEPCION**

GOSEAC - Ball is in their court now - if GOSEAC wishes to know how to present mapping information in the State of the Environment report they can approach WG-GGI for advice.

Coastline mapping project (USGS) - keep pressing Jane Ferrigno and USGS for the project to continue.

Air navigation charting - No longer an issue. Will wait until approached by COMNAP for advice.

Geographical Coordinates for stations / bases. DC to write to Jack Sayers and advise him on the correct format for the collection of coordinate information. A copy of the letter should be sent to Peter Clarkson. GJ to follow up with Jack Sayers on provision of base station coordinates to the nearest 100m (on the ground) with a view to publishing these on the GGI web site.

Geoscience Catalogue - BAS have almost finalised the database. No more input from WG-GGI is required.

## **ACTION ITEMS FROM MEETING 9 FEBRUARY 1999**

John Manning

- Follow up with Ed King (BAS) regarding permanent GPS tracker at Rothera
- Investigate new high latitude Peninsula region site - Sky High (depot and a rock nunatak) as a good place for permanent GPS tracker.
- Notify COMNAP on standards for DGPS permanent stations
- Expand on program for AGS99 (including GIANT meeting) and Absolute Gravity sites
- Inform Jan Cisak about the use of SCAR Report to publish AGS99 proceedings.
- Talk with Alessandro Capra regarding AUSLIG assisting in computation of a high resolution geoid model.
- Liaise with Glenn Johnstone and Lee Belbin regarding DIF's for geodetic data.
- Prepare paper (with JM) on GPS in Antarctica with reference to WGS84 & ITRF ("Datums for Dummies")

Drew Clarke

- DC - will create a one-page info paper to accompany CGA flyer at ATCM meeting
- DC to inform other authors that Rome is the deadline for feedback on Polar Record paper
- DC to start on editing the examples table in the CGA paper (going to Polar Record) to provide only one example of each type - all other authors to do same task for Rome meeting.
- DC to write to Jack Sayers advising the format for collection of stations/bases coordinates (currently not detailed enough as some fall in the sea at small scales). Copy to Clarkson.

Jerry Mullins

- To bring the Map & Chart catalogue database up to date (due by XXVI SCAR). Database updated by Frankfurt meeting and a further year to publish

Janet Thomson

- Finalise data dictionary and publish - a bit more work required - JT to liaise with LB. XXVI SCAR deadline
- JT - provide copy of KGI map index to Jan and GJ
- JT - Confirm the use of GEBCO and the use of IHO/IOC in the paper
- Raise the issue of coordinates (consistency in provision of coord's with or without decimal places) at the Rome meeting.

Lee Belbin

- LB to follow up on what is happening to worked examples of metadata (NZ)
- Lee has done some work on regions and regional names in AAT - will pass to Joern Sievers
- LB to database on-line amalgamated 6<sup>th</sup> SCAR catalogue from JMu.
- LB to forward AAD map catalogue to JMu for comparison and amendment with SCAR catalogue
- LB to follow up on RAMP quick-look mosaic and inclusion in next version of ADD or on-line version at Byrd Polar.

Glenn Johnstone

- GJ to look at DIF metadata guidelines to use on perm ob site files
- GJ to liaise with John Manning and Lee Belbin regarding DIF's for geodetic data
- TC211 standard for Data Dictionaries - GJ to investigate
- Dates for XXVI SCAR in Japan? - GJ to follow-up.
- GJ to subscribe to INTEROP list
- GJ to follow up with Elsevier - re publication of CGA
- GJ to provide a listing of KGI countries to LB to then forward onto Cisak.
- BEDMAP - what are they doing with the ice-free parts of the bedrock? Cutting off the tops of mountains?
- GJ to provide Jerry Mullins with final copy of 5<sup>th</sup> map and chart catalogue on floppy disk.
- GJ to ask Cisak re Frankfurt attendance
- Proposed policy on Digital data distribution - GJ to prepare paper as a discussion item for Frankfurt (see JT email and LB report for pointers to start).
- Follow up with LB on web page on satellite imagery missions and expand info on table
- Follow up with Barry Leigh on correspondence regarding timelines for Global Mapping
- Formal signing off on AGDI specifications is required. Meeting with Australian SCAR members from different disciplines is required.
- Prepare poster on AGDI for ISAES conference, Wellington, NZ, July 99
- Program Coordinators meeting - GJ to send out invites and program for the meeting. (arrive Sunday night, all day Monday, finish mid-afternoon on Tuesday. Joern to send the travel details directly to people - inviting 15 expecting 10. Agenda should work through the published program from Concepcion. Each coordinator to present status report)
- Prepare paper (with JM) on GPS in Antarctica with reference to WGS84 & ITRF ("Datums for Dummies")
- Location of Antarctic base stations (to the nearest 100 metres) – put onto web site.

## OTHER

- Permanent Observatory sites integrated into ADDS - further discussions required
- Remote Observatories - status report on activities due at Frankfurt - Larry Hothem
- call for all publications to be made available via the web site - via Listserver
- Raise ICSU grants programme at XXVI SCAR
- Web site harmonisation will require further discussion with SCAR Executive Secretary - once SCAR web site is moved to the UK (Expected to occur by end Feb 1999)
- Policy decision on distribution of CGA database and SCOUT software is required.