

## **Resolution of 16<sup>th</sup> UNRCC-AP**

July 14<sup>th</sup> – 18<sup>th</sup>, 2003, in Okinawa, Japan

### **Resolution No. 1 : Asia Pacific Spatial Data Infrastructure (APSDI)**

*Recognising* the importance of Spatial Data Infrastructures in supporting sustainable development at national, regional and global levels,

*Noting* the progress made by PCGIAP in building a regional spatial data infrastructure for Asia and the Pacific,

*Considering* the important role that national SDIs play in the development of the APSDI,

*Bearing in mind* that capacity building is also an important need for developing people through training courses and associated technology transfer by participation in international workshops,

*Recalling* the benefit of the integration of cadastral and statistical information with topographic information in providing an appropriate basis for supporting sustainable development and environment management,

*Realizing* the need to gather further information to better assist national agencies in the development of national spatial data infrastructure and to identify the best practice procedures,

*In recognition* that all elements in the spatial data infrastructure need to be uniformly geo-referenced to ensure homogeneous integration,

*Recommends* that

(1) The PCGIAP continues its work in the development of a regional spatial data infrastructure for Asia and the Pacific through data integration in the following activities:

- Continued development of a regional geodetic infrastructure,
- Identification of fundamental datasets and linkages to statistical information,
- The development and integration of the cadastral and land tenure layers within the regional spatial data infrastructure using geodetic referencing techniques, and
- Institutional strengthening for building spatial data infrastructure through capacity building, education, training, and workshops together with identification of needs and funding options for member countries to improve participation in PCGIAP activities,

(2) That governments of the region strongly support the further development of National SDIs and their smooth integration into the APSDI, and

(3) That the PCGIAP ensures that appropriate linkages are developed between the APSDI and other global initiatives.

### **Resolution No. 2 : Regional Geodesy**

Recognising the importance of establishing an homogeneous geodetic network as the basis for the Asia and the Pacific regional spatial data infrastructure as part of the International Terrestrial Reference Frame (ITRF),

Noting the progress made by the PCGIAP Regional Geodesy Working Group in establishing a precise regional geodetic framework as the base layer in a regional spatial infrastructure,

Realising the continuing need to extend regional geodetic infrastructure established so far to include other countries in Asia and the Pacific region together with associated technology transfer and information exchange,

Bearing in mind the limited financial resources and availability of equipment and expertise in observation and processing of acquired GPS data,

Recommends that

The regional geodetic framework continues to be developed through integration of national geodetic networks and through appropriate linkages to global reference frames through the following projects :

- Enhancement of a regional geodetic infrastructure through annual cooperative campaigns, including ties to vertical datum origin points,
- Review the status of the regional geoid in relation to current and improved global gravity models available from satellite gravity, and the application of absolute gravity as a means of developing a regional gravity reference frame,
- Promoting the application of new geodetic adjustment techniques and datum change transformation parameters for regional spatial data integration and for geo-referencing cadastral and statistical information,
- Encourage the transfer GPS technology to Pacific Island nations and other developing countries through regional and local geodesy workshop activities,
- Development of a catalogue of regional tide gauges for monitoring sea level changes and placement of GPS at key sites, and
- Review the status of geodetic networks in individual countries and upgrade PCGIAP web site information.

### **Resolution No. 3 : Fundamental Data**

#### Recognizing:

- The policy for sharing of fundamental data endorsed at the 15th UNRCC-AP,
- The progress made by PCGIAP Working Group 2 (Fundamental Data) on regional fundamental data sets, and
- The progress made by Global Mapping, such as the recent release of the data sets for six additional countries bringing the total number of countries to 18, the availability of Global Map data on the web and the development of a web portal,

#### Recommends

- The endorsement of the PCGIAP Policy Statement for Asia-Pacific Boundaries Dataset, and the PCGIAP Basic Principles for Developing and Utilizing the AP Regional Fundamental Dataset, and
- PCGIAP continue to develop regional fundamental data sets, clearinghouse and GIS applications, in particular :
  - Starting the development of a pan Asia-Pacific regional fundamental dataset, which contributes to Global Map, and encouraging member nations not contributing to the Global Mapping project to consider participation in the project with the assistance of ISCGM and PCGIAP,
  - Implementing APSDI clearinghouse, and member nations or regions be encouraged to establish their APSDI data node, and put their Global Mapping data on their APSDI data node and other fundamental data sets they may wish to include,
  - Encouraging efforts in capacity building in fundamental data, in particular the training program by GSI funded by JICA, and
  - Undertaking these tasks in collaboration with other initiatives, such as Global Map Project; UN Group of Experts on Geographic Names; UN Geographic Information Working Group, Database Project and Second Administrative Level Boundaries Project.

### **Resolution No. 4: Cadastre and SDI**

#### *The Conference,*

*Noting* the outcomes of AGENDA 21 which promoted the importance of efficient and accessible land markets based on cadastral systems and the establishment of appropriate land tenure systems, as key factors in support of sustainable development and environmental management,

Further noting the resolutions and deliberations of the 15th UNRCC-AP and the 6th and 7th UNRCC for the Americas on the need to better understand and appreciate the relationship between land administration and SDIs, and the integration of cadastral and topographic data in SDIs, in Member Nations,

Mindful of the benefits and difficulties of integrating cadastral and land tenure information with topographic information in providing an appropriate basis for supporting sustainable development and environmental management,

Bearing in mind the interest of Member Nations in sharing experiences on cadastral and land administration issues, and particularly the role that cadastral data has in developing SDIs,

Recognising the difficulties Member Nations have in determining the efficiency, effectiveness and performance, and appreciating the global situation, of cadastral, land tenure and land administration systems,

Recalling the outcomes of PCGIAP Working Group 3 (Cadastre) during their 2000-2003 Work Plan and its Workshop on Cadastral Systems in Asia and the Pacific 12-13 July 2003 in Okinawa,

Further recalling the importance of a cadastral template which is a standardized generic proforma that will enable the discovery of information, including matters concerned with Member Nations' land policy, laws and regulations, land tenure, land administration and cadastre, institutional arrangements, SDIs, technology as well as human resources and capacity building,

Recommends that

- The jointly developed PCGIAP/FIG Cadastral Template be adopted,
- PCGIAP support PCGIAP Working Group 3 (Cadastre) in encouraging Member Nations in Asia and the Pacific region to complete the template during its 2003-2006 Work Plan,
- PCGIAP cooperate with FIG Commission 7 (Cadastre and Land Management), the PCIDEA, the UN Economic Commission for Europe (UNECE) through the Working Party on Land Administration (WPLA) and the UN Economic Commission for Africa (UNECA) through the Commission on Development Information (CODI), in seeking to have countries world wide complete the template during its 2003-2006 Work Plan, and
- PCGIAP cooperate with FIG Commission 7 (Cadastre and Land Administration) in placing the individual country cadastral template information on the joint FIG/PCGIAP Cadastral Template web site during its 2003-2006 Work Plan,

And further recommends that the 2003-2006 Work Plan of Working Group 3 (Cadastre) of

PCGIAP further include:

- Continuation of its activities to describe the marine cadastre concept, and
- Developing a better understanding of the relationship between cadastral and topographic mapping in the establishment and maintenance of Member Nations SDIs, by exploring the justification, and associated conceptual, institutional and technical issues.

### **Resolution No. 5 : Capacity Building**

*The Conference,*

Noting the results of the Development Needs Questionnaire undertaken by PCGIAP that indicated the need to provide for capacity building for spatial data infrastructure (SDI) development in Member Nations,

Further noting that capacity building is a concept that involves the development of both human and social capital and includes both capacity assessment and capacity development at three levels – societal, organizational and individual,

Recalling resolutions 2 and 5 from the 7th UNRCC for the Americas, as they relate to institutional strengthening and capacity building,

Further recalling the MOU between PCGIAP and PCIDEA,

Recognising the discussion of the need for capacity building at the 16th UNRCC-AP,

Acknowledging the difficulties being faced by Member Nations in assessing and developing their capacity for creating and maintaining SDIs,

Recommends that

- Working Group 4 redefine its scope of work and develop a Work Plan to be presented to the 10th PCGIAP meeting in India in 2004,
- Working Group 4 establish strategic linkages with other agencies and organizations involved in capacity building and identify opportunities to cooperate with capacity building meetings of organizations and institutions with whom PCGIAP has or should create strategic linkages,
- PCGIAP endorse the short course on Spatial Data Infrastructures (SDI) to be run in conjunction with the Executive Board meeting of the PCGIAP by the Centre for Spatial Data Infrastructures and Land Administration, the University of Melbourne, Australia on 19-21 November, 2003 and assist in exploring options to support attendance by Member Nations and representatives from other regions, and
- PCGIAP

- Endorse and support the convening, with the support of the United Nations, within available resources, of an inter-regional workshop to be hosted by the Government of Mexico in Aguascalientes, in October 2004 to determine policies and programmes for educational, training and professional capacity building that will ensure the development of appropriate land administration systems and associated spatial data infrastructures, and
- Consider the outcome of the resolutions of the inter-regional workshop for inclusion in the implementation of the Working Group 4 Work Plan.

### **Resolution No. 6 : Seventeenth United Nations Regional Cartographic Conference for Asia and the Pacific**

*The Conference,*

Noting the progress made in the work of the spatial data infrastructure, at the national, regional and global levels, by States Members of the United Nations,

Noting also the essential role played therein both by the present United Nations Regional Cartographic Conference and by the Permanent Committee on GIS Infrastructure for Asia and the Pacific (PCGIAP),

Noting that PCGIAP was established in 1994 pursuant to the resolution 16 at Thirteenth United Nations Regional Cartographic Conference for Asia and the Pacific in Beijing,

Further Noting that the PCGIAP expresses its will to hold its Committee Meeting in conjunction with the Seventeenth United Nations Regional Cartographic Conference,

Recognizing the necessity of continuing this important work,

Recommends to the Economic and Social Council that the Seventeenth United Nations Regional Cartographic Conference be convened in 2006.

### **Resolution No. 7 : Expression of Gratitude to the Host Government**

*The Conference,*

Expresses its heartfelt gratitude to the Government of Japan, the Ministry of Land, Infrastructure and Transport, and to the Senior Vice-Minister of Land, Infrastructure and Transport, His Excellency CHUMA Koki, as well as to the Honourable, Mr. INAMINE Keiichi, Governor Okinawa Prefecture, and to Mr. HOSHINO Yoshihisa, the

Director-General of the Geographical Survey Institute, for the kind hospitality and gracious support extended to all participants to the Sixteenth United Nations Regional Cartographic Conference for Asia and the Pacific held in Okinawa, Japan.