

**United Nations Statistics Division**

**Secretariat of the Pacific Community  
Statistics and Demography Program (SDP)**

**Workshop on the 2010 World Programme on Population and Housing Censuses:  
International standards, contemporary technologies and regional cooperation**

**Noumea, New Caledonia, 4 – 8 February 2008**

**Preliminary Programme of Work**

**Monday, 4 February 2008**

**8:00 – 8:30 Registration of participants**

**1. Opening**

**8.30 – 9.00**    Opening Remarks  
                  Administrative Matters

**2. Review of United Nations *Principles and Recommendations for Population and Housing Censuses*; quality assurance in the population and housing censuses**

**9:00 – 11:00**                    **2.a *Principles and Recommendations for Population and Housing Censuses, Revision 2 - Overview of major changes***

A presentation on the main issues that have gone into the revision of the United Nations *Principles and Recommendations for Population and Housing Censuses*, highlighting the changes or features that distinguish Revision 2 from Revision 1. The presentation will include a special focus on emerging alternative methodological approaches to the traditional census; on recommended core topics including what they are and the difference in change from a process driven approach, in Principles and Recommendations Revision 1, to an output driven approach in Revision 2 and on the recommended tabulations and other types of tabulations in the revised Principles and Recommendations including on the rationale behind the choice of tabulations. The session will also include a presentation on the role of the United Nations *Demographic Yearbook* in the dissemination of results from the 2010 round of population and housing censuses.

- **Presentation by UNSD**
- **General discussion**

11:00 – 12:00

**2.b Quality assurance, census management and planning**

International recommendations and standards on quality control, census management and planning. Issues refers to the role of the census as a pillar of national statistical system, role of the government, risk evaluation and management, developing and monitoring project plans and quality assurance.

- **Presentation by UNSD**
- **General discussion**

12:00 – 13.30

***Lunch Break***

**3. Review of Pacific Model Census Questionnaire**

**Objective:** To review and assess a proposed Pacific Island country model questionnaire containing common concepts and questions that could facilitate the possibility of using and sharing identical tools for processing and dissemination of census results.

13:30 – 15:30

**3.a Draft joint SPC census questionnaire**

Presentation of the draft revised model census questionnaire, incorporating improvements and inputs/ suggestions based on experiences over the past years.

- **Presentation by SPC**
- **General discussion**

15:30 – 16:30

**3.b Working groups**

Discussion and evaluation of the applicability of the draft joint SPC questionnaire taking into account national circumstances.

**Tuesday, 5 February 2008**

8:30 – 10:30

**3.b Working groups (*continued*)**

10:30 – 12:00

**3.c Plenary session, reports of the working groups, conclusions on the draft census questionnaire**

12:00 – 13.30

***Lunch Break***

#### 4. Census geography and contemporary technologies

**Objective:** To present and discuss new approaches in census geography, including the use of Geographical Information Systems and Global Positioning Systems in census mapping, data collection and dissemination

13:30 – 15:30

##### 4.a GIS fundamentals and database design

Present GIS concepts, definitions and characteristics, geographic modelling and data structure (vector vs. raster). Focus on prerequisites to and instructions on building a GIS project.

- **Presentation by UNSD**
- **General discussion**

15:30 – 16:30

##### 4.b Data collection and data conversion

Discuss different data collection methods such as Global Positioning System, imagery acquisition, and local knowledge as well as data conversion such as scanning or digitizing; introduce a GIS platform and conduct a digitizing exercise such as EA creation and splitting.

- **Presentation by UNSD**
- **Exercise 1 on Manual Digitizing (35 minutes)**
- **General discussion**

**Wednesday, 6 February 2008**

8:30 – 11:00

##### 4.c Spatial statistics applications and issues and the use of geospatial technologies

Present and discuss applications and issues with new approaches in census geography, including the use of Geographical Information Systems in census mapping, data collection and dissemination and to demonstrate some of the capabilities of the various platforms. Design of enumeration areas (EA): different factors/considerations; practical examples of delineating EA's; advantages and constraints of these technologies with regard to geo-coding.

- **Introduction of File Geodatabase followed by Exercise 2 on Creating File Geodatabase (30 min.)**
- **Presentations by UNSD on GIS software options (15 min.)**
- **Exercise 3 on the use of these technologies for EA mapping (30 min)**

- **General discussion**

**11:00 – 12:00**

#### **4.d Demonstration of spatial applications**

Practical examples of geo-coding from direct collection using GPS, geo-coding features in a GIS, and integration of data; advantages and constraints of these technologies with regard to geo-coding.

- **Presentation by UNSD (15 min)**
- **Exercise 4 on GPS data integration (20 min.)**
- **Presentations by UNSD (Opensource Technologies/brief introduction to Object-based image analysis) (15 min)**
- **General discussion**

**12:00 – 13:30 Lunch Break**

**13:30 – 16:30**

#### **4.e Census geography in SPC region**

Overview of current practices in the use of contemporary technologies for census geography in SPC region; theory of what might/could be (including consideration by SPC to stockpile hand-held GPS units for loan to countries prior to census/survey operations; provision of training to countries) – including a practical demonstration. Presentation of the concepts, framework and national practices in the SPC region in census geography; recent example with survey operational planning in the Marshall Islands.

- **Presentation by SPC**
- **Country presentation – Marshall Islands**
- **Country presentation – Fiji**
- **Country presentation - Australia**
- **General discussion**

**Thursday, 7 February 2008**

### **5. Contemporary technologies for data capture in censuses**

**Objective:** Explore the use of optical character recognition (OCR) for census (survey) data capture in the SPC region.

**8:30 – 9:00**

#### **5.a Introduction to OCR**

Introduction to OCR and its use for the purposes of the census; prerequisites, costs; national experiences.

- **Presentation by UNSD**
- **General discussion**

**9:00 – 12:00**

**5.b National experiences and their impact to census in the SPC region**

Presentation of national experiences in use of OCR in population and housing censuses from the region; discuss possibilities from training and ongoing system support of Pacific Island countries; discuss possible sharing of equipment in conjunction with the joint SPC census questionnaire.

- **Presentation by Australia**
- **Presentation by New Zealand**
- **General discussion**

**12:00 – 13:30**

*Lunch Break*

**6. Commercial suppliers' demonstrations**

**13:30 – 16:30**

Presentation by corporate (commercial) providers of GIS and OCR solutions for censuses (ESRI, GeoSpace, DRS, Fujitsu, Kodak).

- **Presentations will be followed by Q&A sessions**

**Friday, 8 February 2008**

**7. Population and housing censuses and disaster management**

**8:30 – 10:00**

- **General points – presentation by UNSD**
- **National experiences in this field – presentations by two countries**
- **General discussion**

**8. 2010 World Population and Housing Census Programme: Activities and products**

**10:00 – 11:00**

- **Presentation by UNSD**
- **Discussion**

**9. Final Report, Recommendations and Conclusions**

**11:00 – 12:00**

- **Review and adopt report, conclusions and recommendations**