

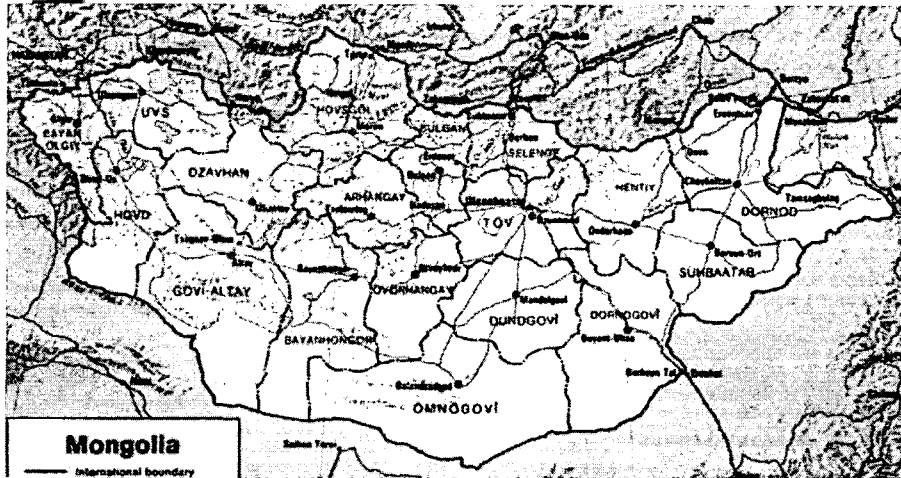
ALAGAC

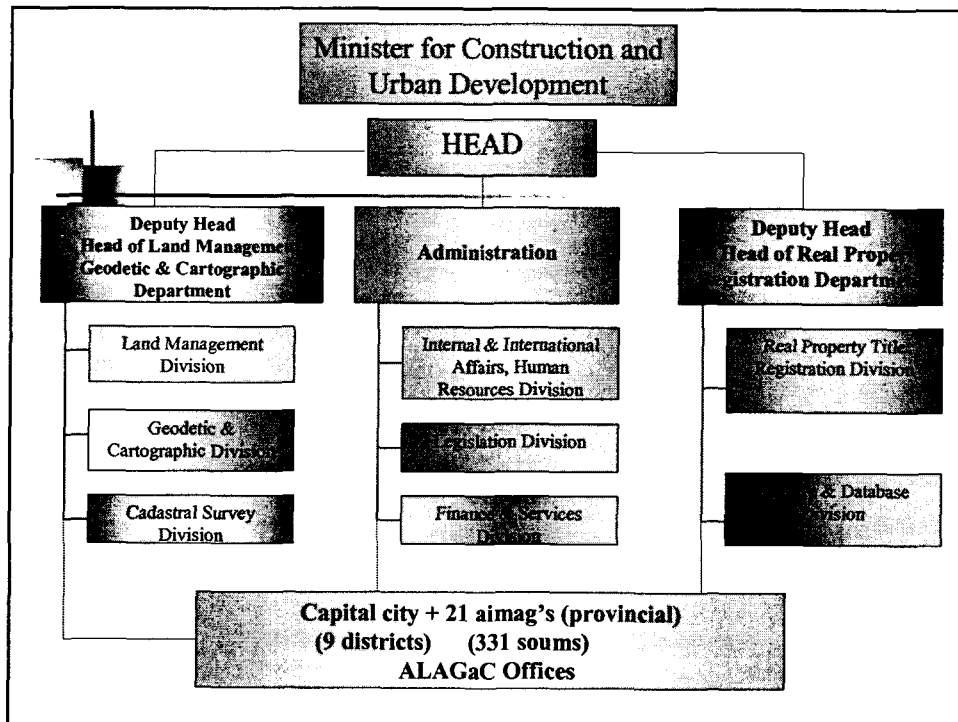
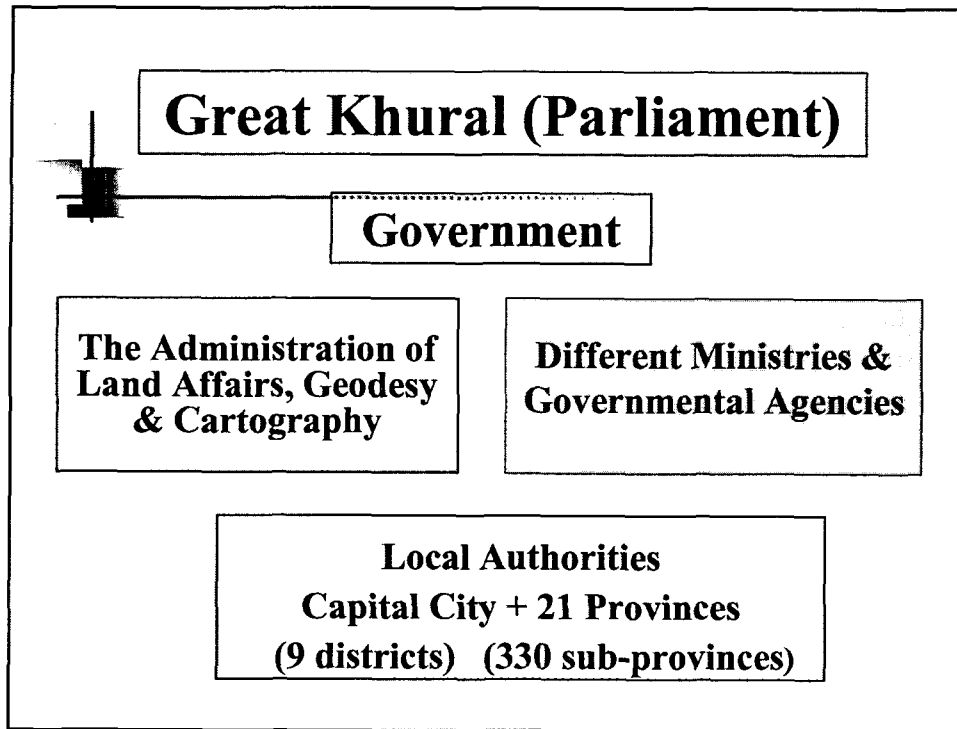
GEODETIC ACTIVITIES OF ALAGAC

Munkhtsetseg Dalkhaa

Senior specialist,
Geodesy and Cartography division,
ALAGaC

**1,565,000 sq.km, 2.4mln
population, 21 provinces**





Land offices

- **101 employees at the Head Office in Ulaanbaatar**
- **98 employees at the Capital city – Ulaanbaatar ALAGaC**
- **105 employees in Provincial ALAGaC offices and one land officer in each of 331 sub-provinces**

Land privatization

- **Privatize only to Mongolian Citizens**
- **One time free privatization for family/household use (starting May 1, 2003 for 2 years)**



Geodesy and topomap archive

- 291 000 sheets maps /1:5000-1:1000000/
- Geodetic work reports – 383
- Geographic names - 242 000
- Geodetic points - 27 800



Satellite and aerial image archive

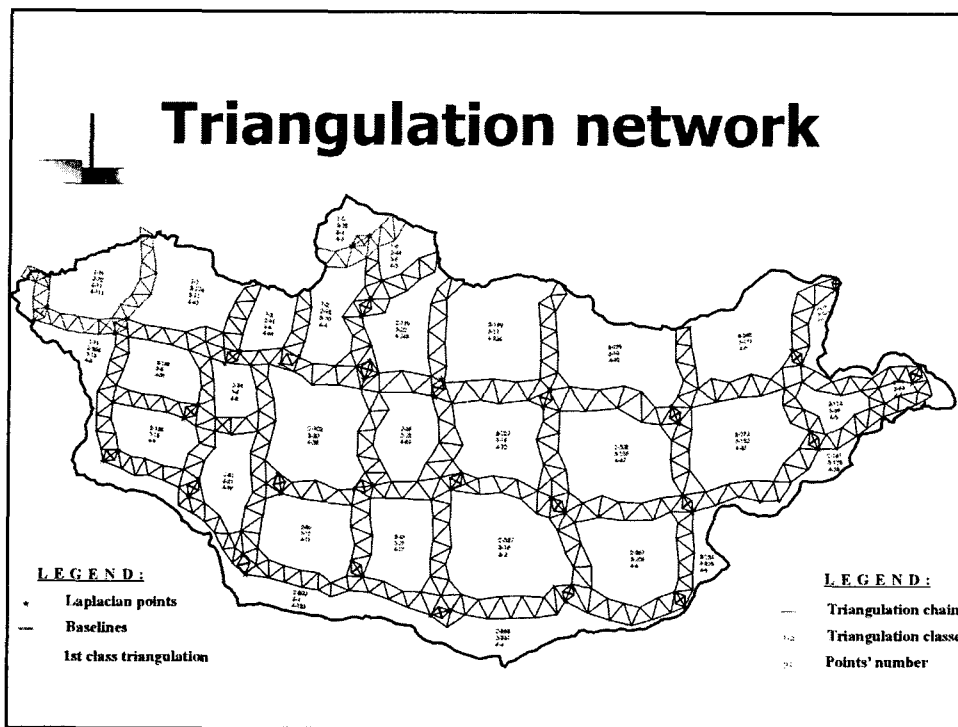
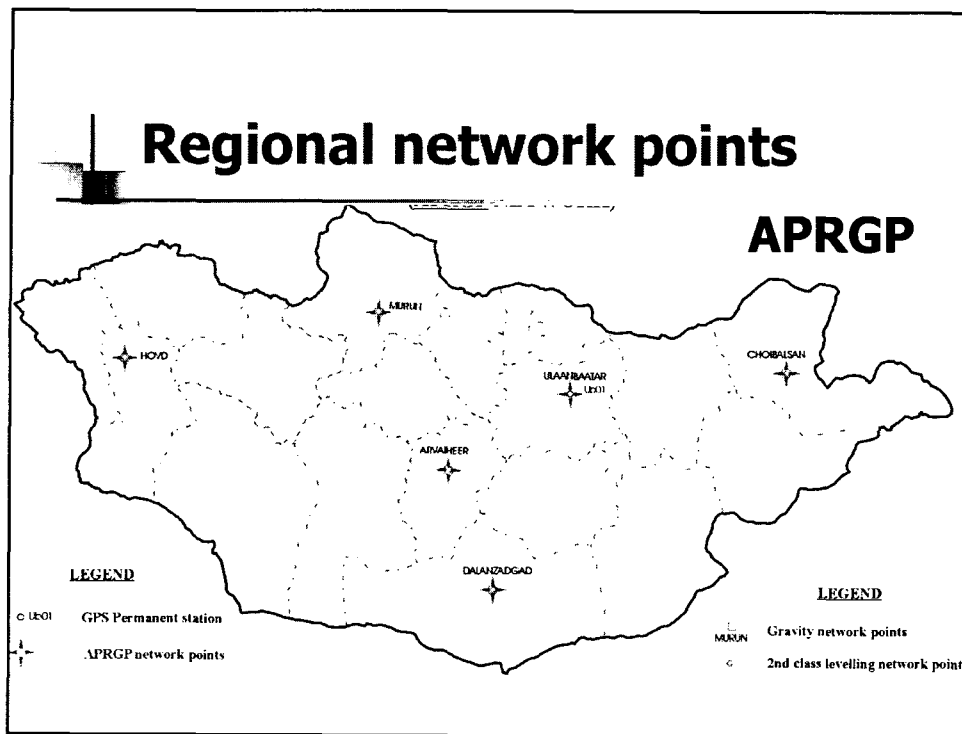
- Large scale map – 16 255 sheets /2182-digital, 4882 – paper maps/
- Aerial photos – 264 047 /1:32 000 – 1:100 000/
- Satellite images - 600

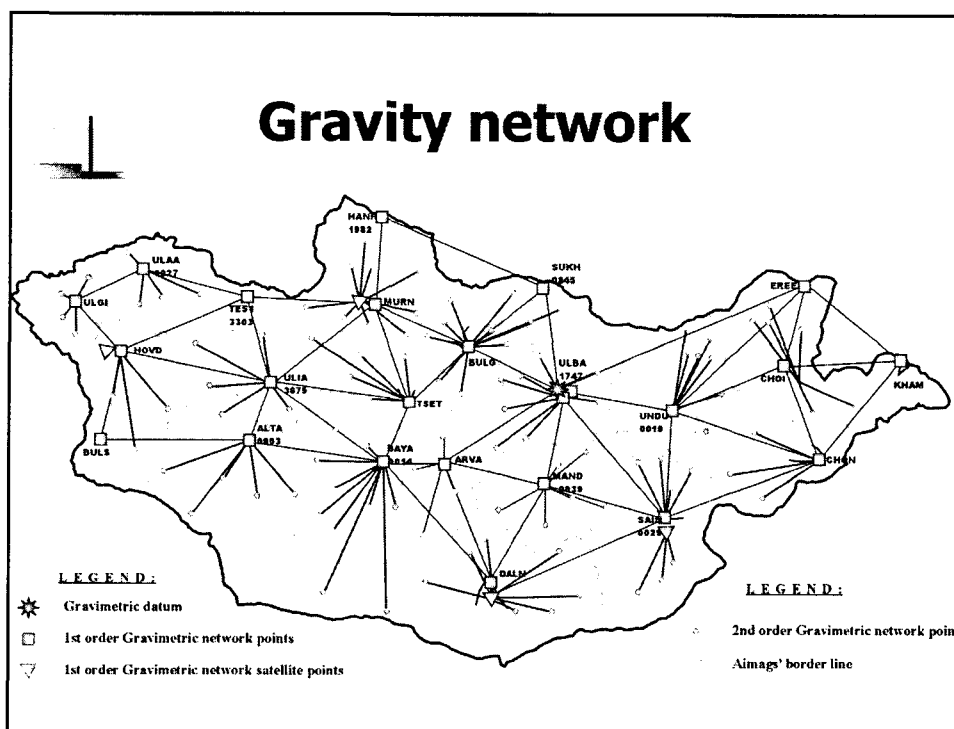
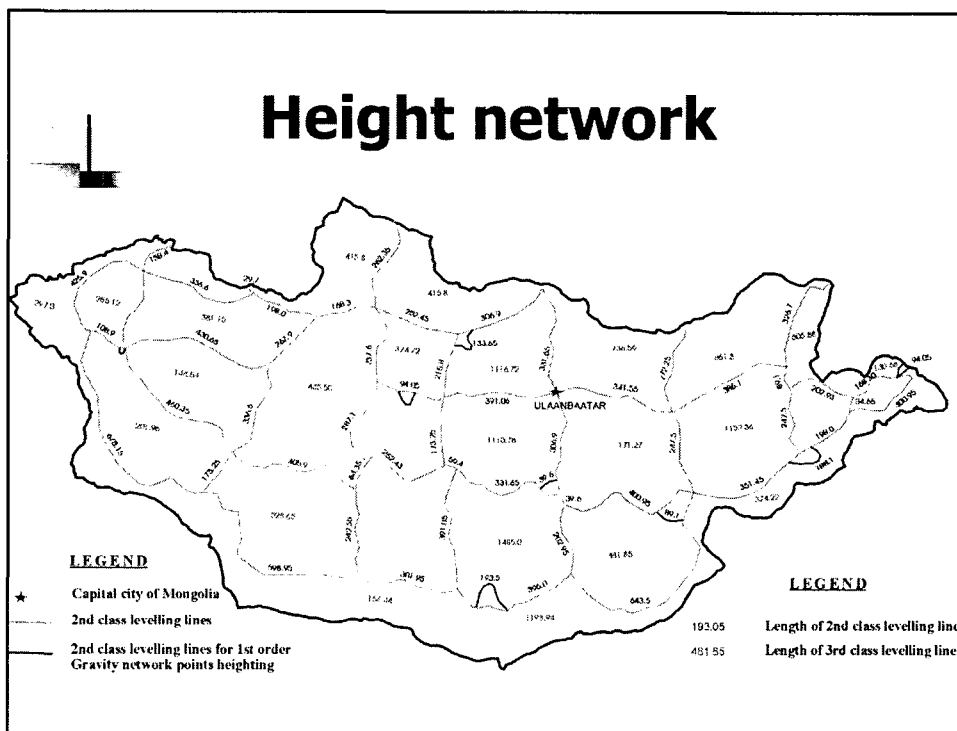
Geodetic and cartographic tasks

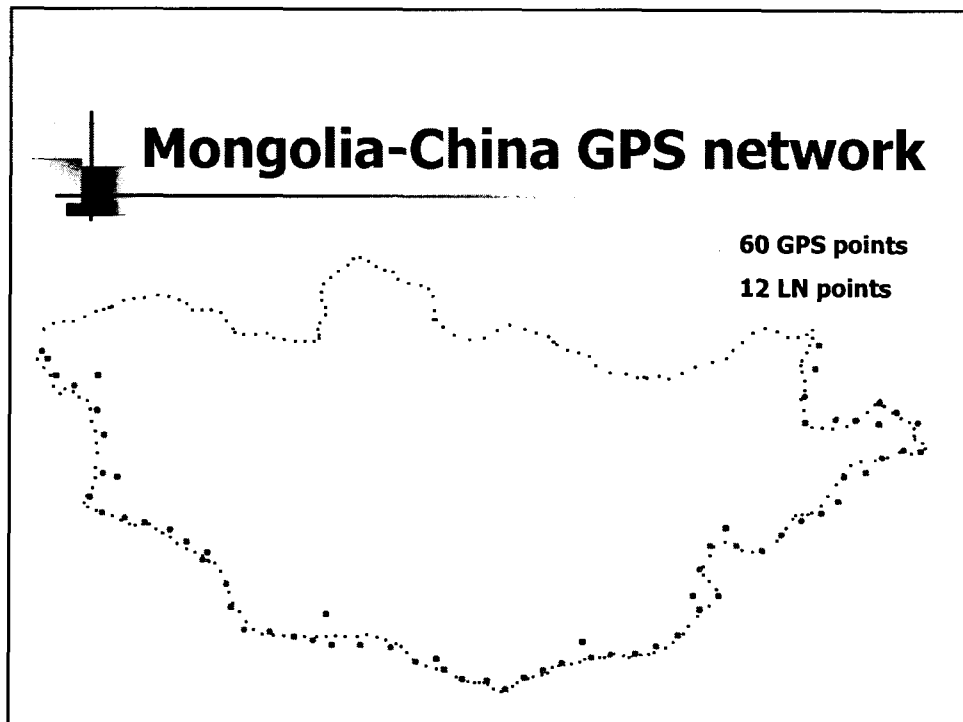
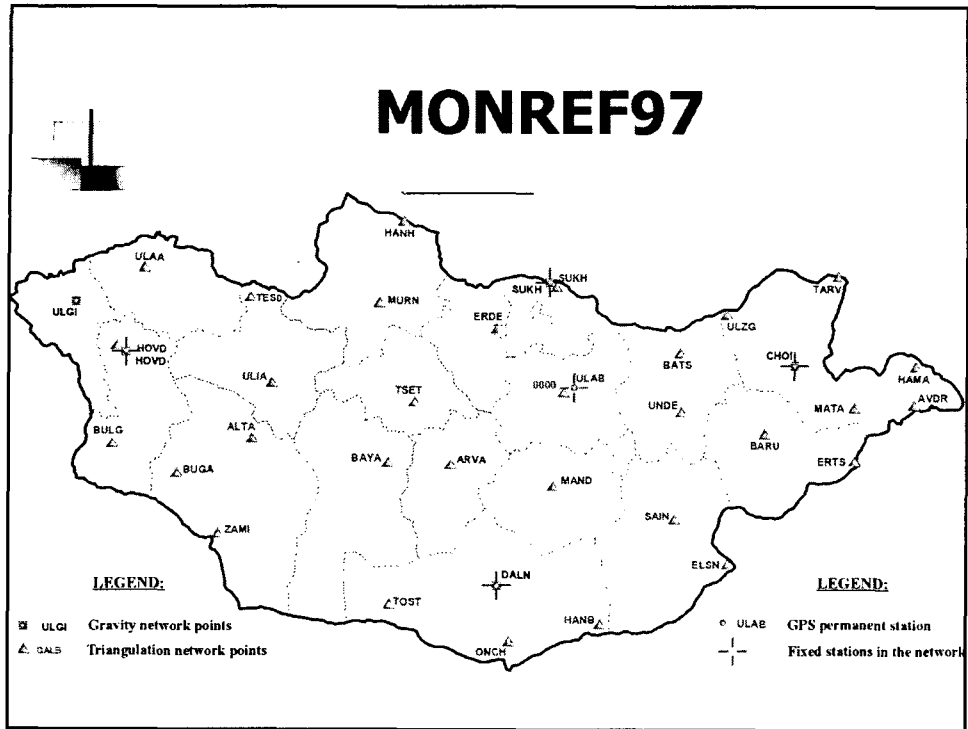
- Mapping of Mongolia
- Establish geodetic networks
- Definition of National geodetic reference systems
- Determination of height model and gravity field
- Produce standards, procedures and manuals
- GIS and create databases
- Provide users with different kind of maps
- Prepare base maps for public usage
- Maintenance of Geographical names

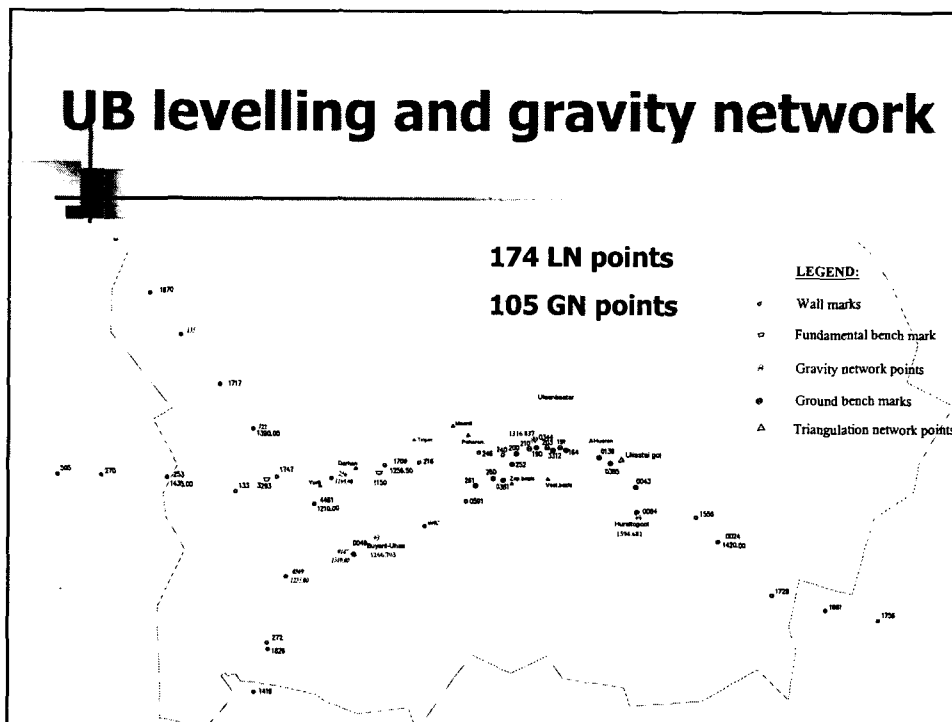
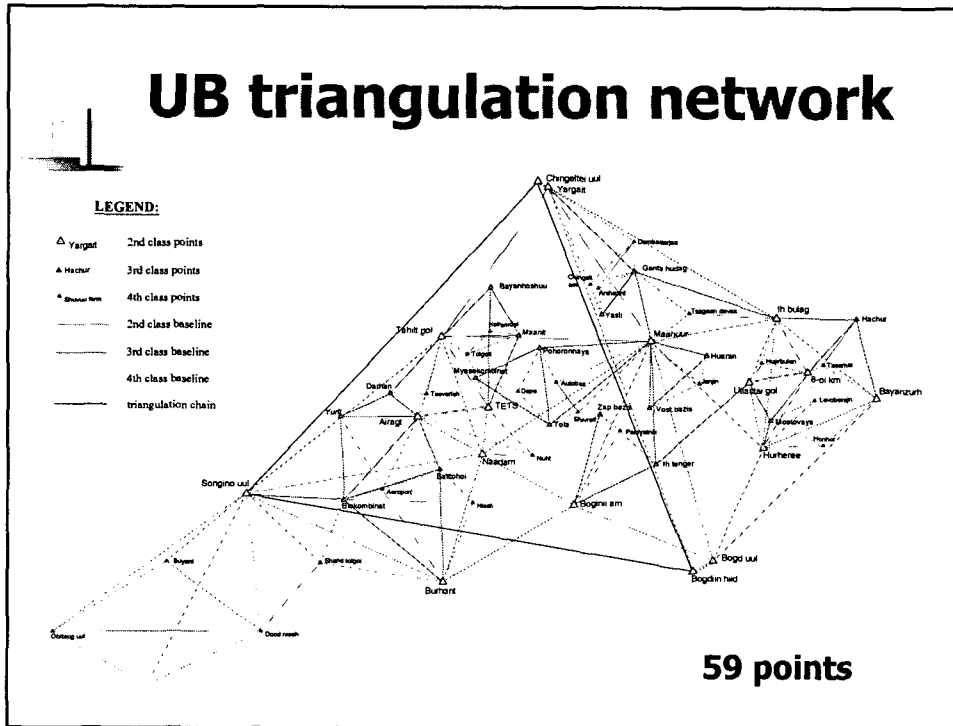
Coordinate system

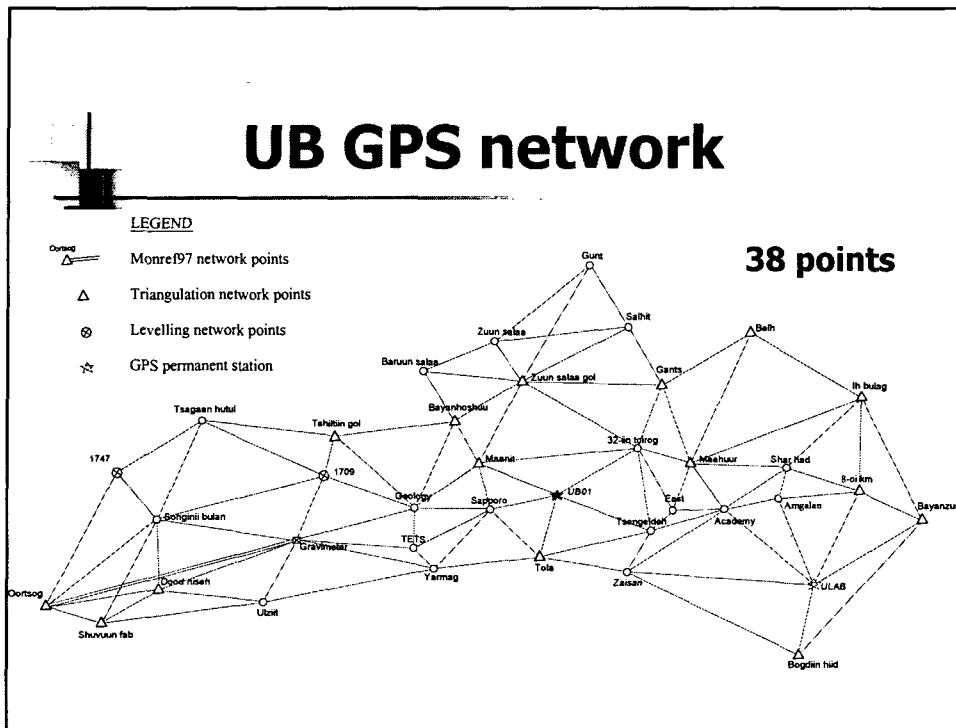
- National coordinate system /Krassovsky ellipsoid, Gauss-Kruger, Baltic sea level/, small scale maps
- Local coordinate system for UB city and other aimag centers /No any definition/, large scale maps
- Monref97 coordinate system /GRS80, TM, Baltic sea/, cadastral maps



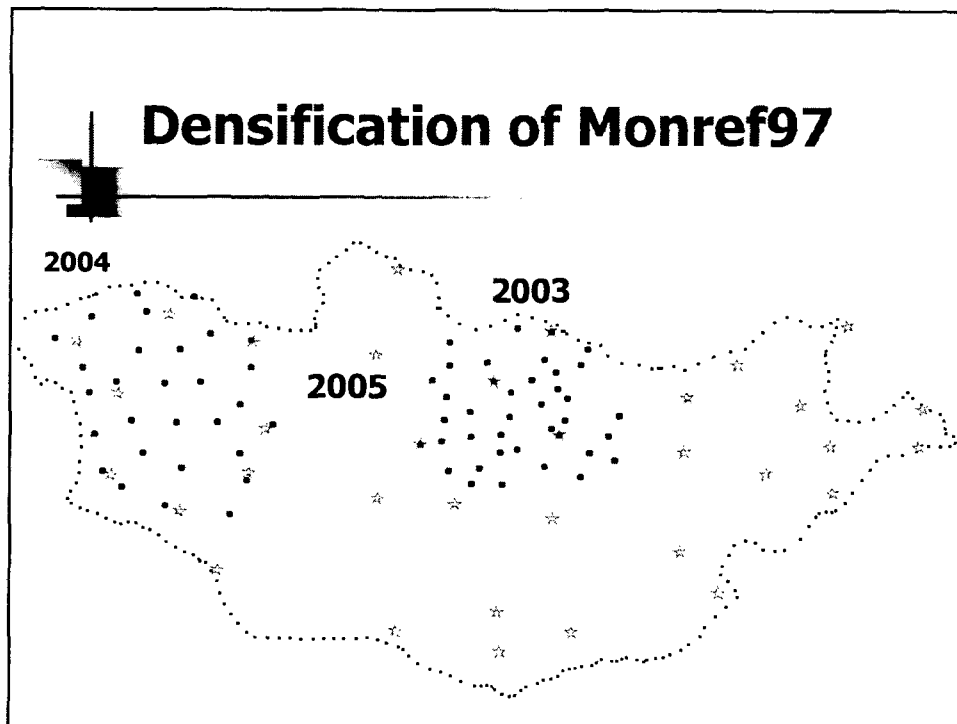
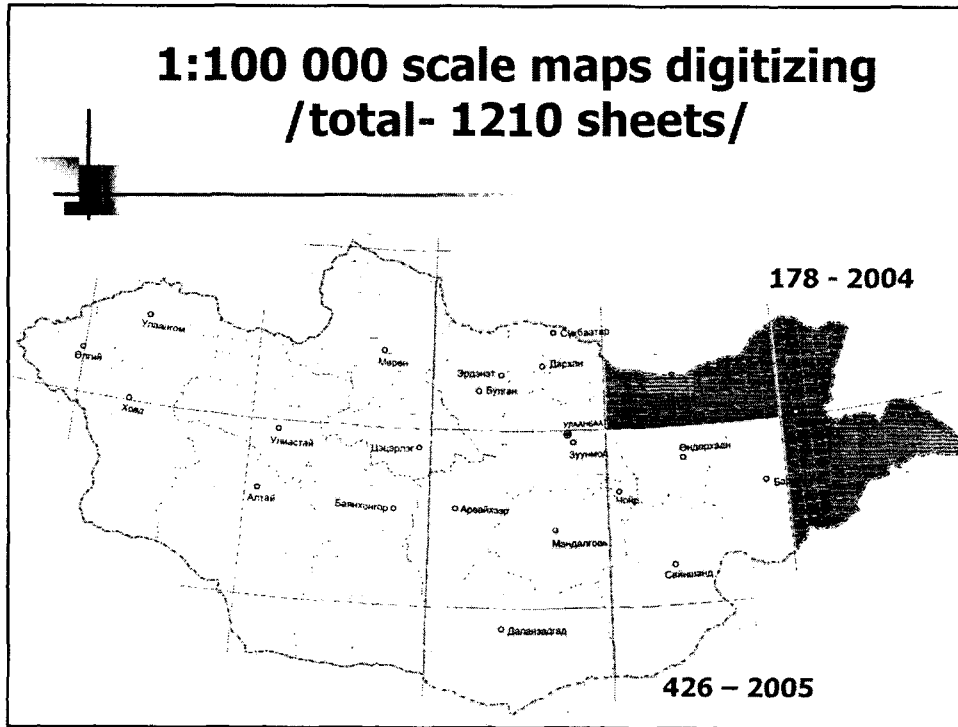








- ## Current geodetic activities
- 1:100 000 scale maps digitizing and updating /1210 sheets/
 - Densification of Monref97
 - Geoid modelling
 - Cadastral mapping of 160 aimag and soum centers
 - GIS in cooperation of other ministries
 - Geographic names' maintenance
 - Creation of geodetic points' database
 - RTK network in UB



Mongolian airborne geoid project



Geoid project 2004 flight heights

