

Cecep Subarya National Coordinating Agency for Surveys and Mapping Center for Geodesy and Geodynamics

> 3<sup>d</sup> FIG Regional Conference Jakarta, Indonesia October 3-7, 2004

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# The Indonesia Geodetic Control Network summary

- The goal of enhancing the Spatial Reference Infrastructure
- Provide a velocity field throughout the Indonesian archipelago
- Maintaining geodetic datum that take into account of Earth deformation

## The Goal of enhancing the Spatia Reference Infrastructure

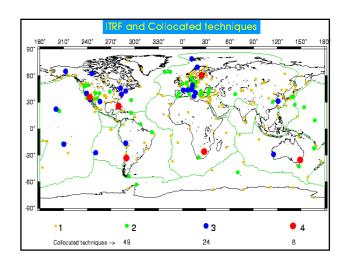
- > Take the advantages of satellite positioning
- Improve survey accuracy, increase efficiency and reduce cost
- Provide a digital, timely, reliable spatial reference system
- Provide the survey infrastructure for social and economic development of the society

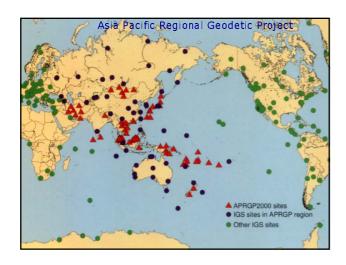
#### The Indonesia Geodetic (GPS) Network

- The first GPS network was established in 1989
- Current status more than 800 control stations, more than 250 control stations observed two or more occupations.
- Average station spacing: 300 Km, and very dense (~3 km) across fault.
- The network is based on ITRF2000

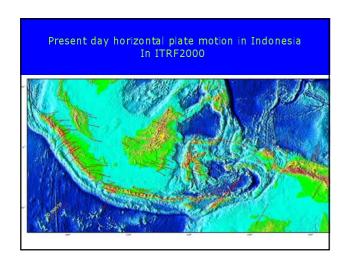
## Purpose of connecting to International Terrestrial Reference Frame 2000

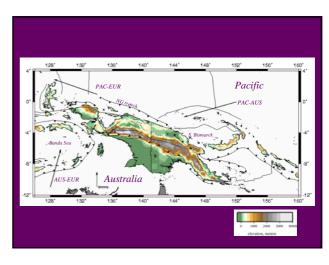
- Provide a reliable and common global reference system
- Enable exchange of local and global information
- Improve the capacity to meet the challenge of:
  - > Digital World
  - > Information Economy

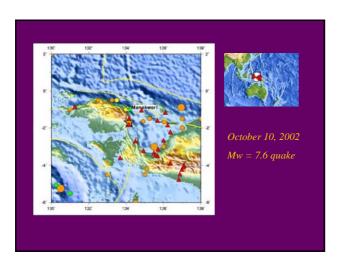






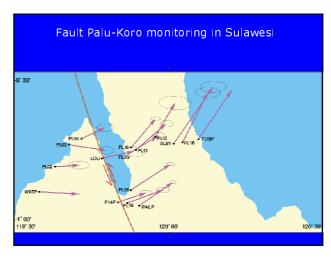












## Conclusion

- The satellite positioning spatial reference infrastructure will be used for multi-purpose application
- Provide the velocity field to consider the choice of using static, semi-dynamic, or dynamic geodetic datum
- It brings benefit for social and economic development

