Monitoring Earthquakes

Intellectual linkage system of individual seismic networks in Asia-Pacific region

GEOSS AP Symposium (Jan. 11-12, 2007)

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The goals and targets of GEOSS

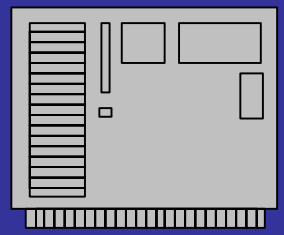
- Arrangements to make systems interoperable and to share data
- Collective optimization of the observation strategy
- Cooperative gap filling
- Observational adequacy and continuity
- Data transfer and dissemination
- Collaboration on capacity building
- Harmonization of methods and application of observation standards

Proposed GEOSS AP recommendations

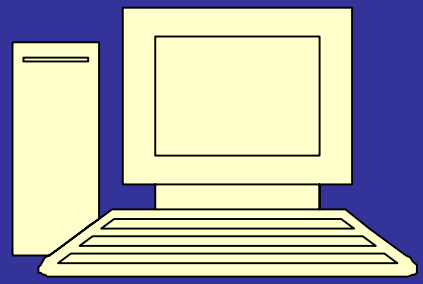
- **Existing GEO Seismology Task**
  - **Recognize DI-06-02 as GEO coordinating Task for Asia-Pacific activities**
  - **Japan's role as "Asia-Pacific" instead of "DAPHNE"**
- **Data sharing**
  - **Asia-Pacific focus**
  - **Real-time data emphasized**
- **Sustaining the Facility at the state of the art**
  - **scientific**
  - **technology**
- **IMS open data access**
- **Synergy of Science and Operations (?)**

- **1.Convergence of Observations in-situ, and satellite**
- **2.Data Integration**
- **3.Capacity Building**
- **4.User Forum / User Interface / Outreach**

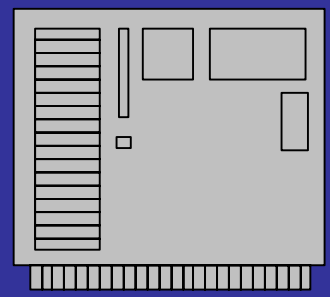
Intellectual linkage system of individual Geo-networks in Asia-Pacific region



National and international real-time seismic Data

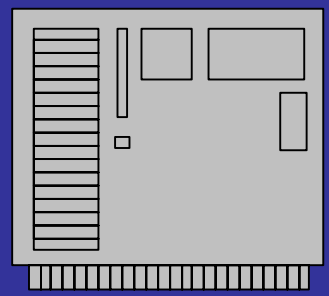


GPS Data



SAR, VLBI Database

GEOSS Data Center
(Users' PC)



GIS Database

DI-02-06

Facilitate improvement of capabilities for global seismographic networks such as GSN, FDSN, DAPHNE, and sharing of data and event products among GEO members

- **1. Sustain GSN/FDSN operations and maintenance.**
- **2. Expand real-time telemetry capabilities and robustness for the GSN/FDSN stations.**
- **3. Improve operational uptime and data availability of GSN/FDSN.**
- **4. Promote real time access and use of data from GNSS (Global Navigation Satellite Systems) permanent stations**
- **5. Advocate free, open access to real-time seismic data from GEOSS in-situ Observation Systems and facilitate data sharing among GEOSS members.**
- **6. Facilitate and improve the use of seismological data to obtain rapid estimates of event parameters suitable to mitigate the consequences of the event.**
- **7. Facilitate data management coordination within GEOSS for seismological data, metadata, and products.**
- **8. Establish GEOSS 6-year target to develop new very-broad seismometers for seismology and tsunami warning.**
- **9. Advocate and coordinate use of GSN/FDSN as a logical framework for other GEOSS in-situ measurements.**
- **10. Establish GEOSS 10-year target to extend global seismological coverage into the oceans through synergy and shared logistical infrastructure with GEOSS in-situ ocean observing systems.**

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