

FDSN WG-1 Station siting and instrumentation

January 12, 2009 16:30:18:00 Room 2.61 of Cape Town International Convention Center, Cape Town, South Africa

Attendants: Gerardo Suarez (UNAM), Jim Lyons (NRC), Rhett Butler (IRIS), Josep Vila (IEC), Reinoud Sleeman (KNMI), Eleonore Stutzmann (IPGP), Jim Fowler (IRIS), Wolfgang Leonards (ZAMG), Bernard Dost (KNMI), Salvatore Mazza (INGV), Marco Olivieri (INGV), Torild van Eck (ORFEUS), Tim Ahern (IRIS), Seiji Tsuboi (JAMSTEC)

- (1) In the last WG meeting, regional coordinators, who will be in charge of updating station inventory in their area, have been assigned to have complete FDSN station inventory. However, it did not work well to update the inventory and it was decided that the secretary of FDSN will write a letter to members to update the inventory based on the current status of member's networks. It was discussed if some of the columns in the inventory are properly defined.
- (2) Definition of the FDSN backbone network was discussed, the consensus guidance is:
 - (very) Broadband.
 - Global Coverage.
 - Increase from current ~200 stations towards 300+.
 - Redundancy is good in moderation.
 - High-quality data and meta-data.
 - Real-time encouraged but not necessary.
 - Every FDSN member should designate at least 1 station from their network.
 - Broaden international participation through sites in many nations.
 - Enhance coverage in seismogenic zones (emphasizing real-time)

Rhett Butler has proposed to add 39 stations from IRIS GSN and GEOSCOPE networks as new FDSN backbone stations to increase global coverage of FDSN backbone network. It was generally agreed to include these stations in FDSN backbone network. To consider the station coverage carefully, it was requested for Rhett to send the station list and map to WG mailing list.

- (3) It was discussed that database for FDSN station inventory is necessary to easily update the inventory. Seiji Tsuboi had mentioned that he will prepare a prototype database system at his institute near future
- (4) Replacement of STS-1 broadband seismometer is discussed. Rhett Butler reported that there is new hardware for STS-1 equivalent seismometer being developed by commercial company.