

Minutes of FDSN WG-1 Station siting and instrumentation

July 9, 2007 18:00:20:00 Room 12 of Law Building, Perugia, Italy

Attendants: Gerardo Suarez (UNAM), John Adams (GSC), Jim Lyons (GSC), Klaus Stammler (BGR), Rhett Butler (IRIS), Dimitry Storchak (ISC), Josep Vila (IEC), Reinoud Sleeman (KNMI), Eleonore Stutzmann (IPGP), Ray Willemann (IRIS), Winfried Hanka (GFZ), Stenum S Jakobidotti (IMO), Michelle Grobbelaar (CGS-RSA), Gerhard Graham (CGS-RSA), Torild van Eck (ORFEUS), Bernard Dost (ORFEUS), Tim Ahern (IRIS), Seiji Tsuboi (JAMSTEC)

- (1) To have complete FDSN station inventory, regional coordinators, who will be in charge of updating station inventory in their area, have been assigned to following regions.
 - (a) South America; Gerardo Suarez, Crista Von Hillebrandt
 - (b) South East Asia and Pacific; Seiji Tsuboi, Zhong Zheng, Spiro Spiliopoulos, Winfried Hanka
 - (c) South Africa; Michelle Grobbelaar
 - (d) Europe; Joesp Vila
 - (e) Central Asia and Middle East; Natalya Mikhailova
 - (f) North America; Lind Gee
 - (g) Russia; Aleksey Malovichko

Those regional coordinators will be added to the WG-1 mailing list. Mailing list should be updated using the web based mailing tool maintenance software prepared by IRIS DMC. FDSN encourages each regional coordinator to register the stations to ISC.

- (2) To increase data availability, FDSN encourages each representative to have more data available to the community. We are aware of the existence of stations, which are on the station inventory but not available yet. To promote the data availability, new column, named "data center", will be added in the station inventory. In this column the data center acronym should be included and URL to the data center should be added in the inventory.
- (3) Definition of the FDSN backbone network was discussed. There were discussions from the viewpoint of maximum number of the stations, geographical distribution, and accessibility of the data. It was agreed that small group will be coordinated inside the WG-1 to discuss this issue more. Members of the small group are not decided yet, but it is hoped that the group will have conclusion by the next FDSN meeting. Definition of realtime accessibility was discussed. It was agreed that the column named "accessibility" in the inventory should be modified to "timeliness"

and its entry should be one of the following “RT (realtime)”, “AD (artificial delay)”, “TD (technical delay)”.

- (4) Replacement of STS-1 broadband seismometer is discussed. Rhett Butler reported that IRIS/NSF funded the development of a new electronics module for STS-1 through UC Berkeley and a company, Metrozet. The new electronics are available from Metrozet (www.metrozet.com). IRIS retained rights to share the electronic design with the community. There are several manufacturers who show interests in producing STS-1 equivalent broadband seismometer but there is not actual product still.
- (5) Dimitry Storchak of ISC reported that there are some stations which show unusually large residual for earthquakes whose location is well determined. There is now a working group under Commission on Practice of IASPEI to handle this issue. It was questioned if FDSN also will take some actions against this problem and it has decided that this problem will be discussed further in the WG-2 meeting.
- (6) There was a discussion if we need to have a new format for station inventory so that it fits easily to database. It was agreed that Winfried Hanka will propose new format by the next federation meeting.