FDSN WG-V
Gothenburg, Sweden

Convened by acting chair Bruce Beaudoin at 12:10

Bruce presented a proposed agenda. This included
- Approval of 2009 and 2011 minutes
- WG – V Areas of Interest
- Best Practices Documentation
- Data Quality Control of portable data

Approval of minutes. This will be done by email circulated by Bruce. It will include the 2009 and the 2011 minutes.

Bruce showed the WG-V Areas of Interest:
- Promote the use of uniform data archive formats and access methods.
- Promotion of open access to data after an exclusive use period.
- Promote best practice among FDSN members.
- Develop and maintain an inventory of available equipment on the FDSN website.
- Maintain an archive of metadata about past, current and planned experiments through links from the FDSN website.
- Maintain a list of links to ocean bottom seismometer pools.

Instrument Inventory
- ORFEUS complete list of available instrumentation
- PASSCAL – current
- POLARIS in Canada

Bruce asked if there are other sites that have inventory. van Eck indicated that it is the goal of ORFEUS to keep the inventory updated. Ahern suggested that the Chinese Academy of Sciences in China could be added to the inventory of equipment. The new WG V chair will pursue discussions with all of these groups.

2011 Resolutions - approval of minutes pending
- Portable Experiment Data Formats: FDSN would like to establish a standard for data formats for the exchange of portable seismic data (passive and active source). The group recommends that SEED be the format for passive experiments and SEGY for active source experiments.
- Portable Experiments Integrated Mapping Tool: FDSN should have a goal of hosting an integrated mapping tool for providing spatial representation of past, present and future portable experiments.
- Best Practices Documentation: It would be valuable to collect links to portable experiments best practices on line documentation to be displayed on the FDSN webpage.

- Data Quality Control: –The group felt that data quality control of portable experiment data is very important and WG V should review available techniques to applying automated QC tools to this important data set.

Portable Data Formats:
Passive experiments
Should stationXML be adopted for portable experiments? There was general consensus that moving to station xml was a good idea. Ahern indicated that there was a tool that could help convert dataless SEED to stationXML as the exchange format. It was met with unanimous support. Pedersen noted that it would take time for members to migrate to stationXML.

Active experiments
Should the WG reconsider SEGY for active experiments? PH5 based on HDF5 format is the current direction being pursued by PASSCAL. HDF5 is the new archive and exchange format. It still accepts SEGY as input and output formats.

Ahern mentioned that SEG is currently modifying the SEGY format. Are there needs of this community that should be presented to the SEG Technical standards community? Ahern is a member of the SEG Technical standards committee. Vaneck indicated that Europe wants to make all the data managed in a uniform way. Bruce indicated that SEGY is the format used for processing of heavy data sets in industry type acquisition deployments. Can web services offer solutions to this problem?

Portable Experiment integrated Mapping Tool
It seems that PASSCAL maintained this system and SEIS-UK may have tested. Sounded like GFZ and France had their own mechanisms to maintain the experiment lists. Bruce reiterated that WG-V recommended there be one tool, hosted at fdsn.org, to allow all groups to submit experiment locations/etc. in an XML format. So a single portal showing all the experiments on the FDSN web site. Bruce indicated that this was to help coordinate experiments being done by different groups through this inventory of experiments. Kent wondered if this could be linked to the effort of the WGI for broadband stations. Ahern thought that the portable and the permanent should be kept separate at this point in time. Torild indicated that Alex tried to promote the concept but met with little enthusiasm from several groups. Ahern still thinks that the idea of trying to get a few groups that run portable experiments involved in this activity, let it gain traction, and then try to get broader international buy-in to this system. Strollo asked if this tool was for only open experiments or for all experiments. Bruce that it was the later and should expose restricted or unrestricted experiments.

It was recommended that the experiment XML format be circulated for discussion and the goal of adoption by WG-V.

Best Practices Document

Bruce indicated that providing links to the documentation that FDSN members have would be the goal. Bruce indicated he will make the PASCAL documents available and Reinoud indicated that he has just provided the link to similar documents at ORFEUS.

Quality Control Tools
Bruce thinks that the group should coordinate automated QC tools for data recorded while it is still in the field.

Strollo said that defining quality control tools for these types of data was difficult. Bruce indicated that the tools range from station operational status as well as waveform quality. Strollo felt that timing and availability tend to be the two key types of QC now in practice. Kent mentioned the concept of MUSTANG-lite being applied to data in the field. Ahern indicated that the plan was to provide the algorithms for the field computers and then a framework that can be used to calculate waveform metrics, using these algorithms, can be implemented on the field computers. van Eck mentioned that the have tried to do this in Europe but the resources have been too limited. The Europeans are also trying to do this for OBS data types. Damiano Pesaresi indicated that AlpArray has a committee designated to establish quality control standards and suggested contacting.

OBS Coordination
van Eck mentioned that the question of where the FDSN should coordinate OBS deployments and issues should be discussed within the FDSN. Kent mentioned that IRIS is now the management group in the US for the OBS community. The consensus was that we should ask the OBS community if they want to be involved in the FDSN. Ahern thought that if it was to be within the FDSN it should be in WG-V.

Kent asked if we should discuss the issue of the chair of the working group. The FDSN Excom has suggested that Bruce Beaudoin be the chair of the working group. One proposal for the vice chair is Marek Grad of the University of Warsaw (Poland) as vice chair of the working group.

Being no other discussion the meeting was adjourned at 1:03PM