

**EMWoG Telephone Conference Call**  
**Tuesday November 14, 2006, 2.00-3.00 pm ET**  
**Minutes and Action Items**

*Present:* Gary Egbert, Shane Ingate, Dean Livelybrooks, Steve Park, Adam Schultz (arrived after 25 mins), Martyn Unsworth (quorum achieved).

*Apologies:* Rob Evans, Kevin Mickus, Phil Wannamaker

**Action Item Status**

- **Action Item (from 4/11/06)** Schultz to contact Narod if NIMS could be toggled between 1 and 8 Hz, enabling interchangeability of systems.
- **Resolution:** *Outstanding.* Schultz has provided 1-Hz code to Narod that is now being inserted into the NIMS firmware.
  
- **Action Item** Narod to be contacted to get firm assurance that 1 GB cards will work.
- **Resolution:** *Resolved.* Narod successfully implemented and tested 4 Gb cards during Oct/Nov 2006.
  
- **Action Item:** Ingate to set up a Oregon Pilot Project debriefing meeting.
- **Resolution:** *Resolved.* Debriefing meeting to be held after EMWoG meeting at AGU, Mon 11 Dec, 1200-1700.
  
- **Action Item:** Ingate to contact IRIS DMC concerning non-seismic data to be made more visible.
- **Resolution:** *Resolved.* IRIS DMC is developing a new web page format. When this structure has been approved, no-seismic data will be visible at the higher levels.
  
- **Action Item:** Should ES MT data products be developed by PIs, or should it be more of a task for MT data processing staff?
- **Resolution:** *Outstanding.* Ingate has approached Ahern of the DMC and the inclusion of MT data products using the cyber-infrastructure tool SPADE. Ahern reports that this should take \_ day to set up; most of the work will be in defining and completing the meta-data.
  
- **Action Item (from 4/11/06):** Ingate will request that the data from recent Quantec testing of the Billingsly cores at Battle Mountain, NV, will be made available to EMWoG for analysis.
- **Resolution:** *Outstanding.* Ingate has contacted Reftek but has received no response.
  
- **Action Item:** Ingate to ask Booker if he would continue to use Pelican cases, and to seek Group preference on case design by Fri 15 Sep and forward to Narod.
- **Resolution:** *Resolved.* Despite some reservations with the Pelican cases,

community feels that the Pelican cases are more user-friendly. Order for Pelicans have been placed with Narod for transportable systems.

### **System Procurement**

Ingate reports that Narod is making headway with building the 7 Backbone and 13 Transportable EarthScope systems that are expected at the end of December, but he will not commit to a shipping date. One permanent system has been completed and has been running on the bench for over a week, and Narod reports a magnetometer noise level at 1.25 Hz of:  $H_x = 9.1$  pT [PSD],  $H_y = 12.8$ ,  $H_z = 7.7$ .

(Note added 11/15; Narod reports a mistake was made and actual measurements were 11, 16 and 14 pT rms respectively for the three channels).

### **Modeling with Oregon Data:**

Ingate advised that he had approached GSY-USA to provide a preliminary 2-D inversion of the Oregon Pilot Project. The reasoning given was to bootstrap excitement within the community for this data. Ingate expressed his concern that with funding for analysis of EarthScope data being competitive, MT may be low on the pole for funding. Ingate also reasoned that with lack of definition of EarthScope O&M funding, there is a great likelihood that funding for facility O&M may be very challenging and competitive; without demonstrable evidence that MT data are being used by the broader community, requests for ongoing O&M funding of targeted transportable system deployments may be difficult. The O&M proposal is being written and is due at NSF March 2007.

Ingate reports that GSY-USA made a very compelling offer to conduct a 3-D inversion. EMWoG indicated that though they are extremely respectful of Mackie's code, it is proprietary and the offer would produce only a very preliminary model that would not meet rigorous scientific scrutiny. Egbert indicated that his own 3-D code could be productive within 6 months.

### **Next Transportable Experiment**

EMWoG have previously endorsed that the next Transportable experiment is to complete Cascadia and Pacific NW. Ingate asks how should this be presented to EMSOC? Park suggests that the decision has already been made by EMWoG, and that we will seek EMSOC's endorsement at the annual meeting in AGU.

### **Redistribution of Backbone Sites (details attached)**

With the completion of 4 Backbone site constructions, Schultz is now focusing on the final 3 sites that have not yet been located. The descope of the Backbone from 10 to 7 stations has left the central-western US inadequately covered. New opportunities have emerged to work with C. Weiss at VirginiaTech and H. Tobin at U. Wisconsin. Schultz also reports on the paucity of analog copper cable across the US (with the telecoms moving to fiber-optic and twisted-cable pairs) that will make it very difficult to find long runs for the electricians.

With the difficulty of finding sites in Ohio, Schultz suggested relocating this site to Virginia, which is equally distant from the USGS GeoMag station at Fredericksburg as was the proposed site in OH. In addition, he suggested moving the Maine site closer to Yellowstone, in the Montana/Wyoming area. While this may not meet the criterion of uniform continental coverage, scientific priorities for a station to the E of the putative mantle plume that models suggest is the source for magma for both the Yellowstone system to the East and the Brother Fault Zone volcanics in E Oregon to the West.

EMWoG discussed this proposal and those in attendance unanimously endorsed this suggestion.

### **EMWoG Meeting and Oregon Project debrief at AGU, 11 Dec Noon-5 pm**

**Action:** Ingate to distribute a draft agenda, a list of questions, and reporting format for EMWoG critique.

### **AGU poster**

**Action:** Egbert to provide transfer function plots. Ingate will write section on background, logistics and data access.

### **Calendar**

- USAAC 9-10 Dec
- EMWoG Meeting 11 Dec 1200-1400 PT
- Oregon Pilot Project Debrief 11 Dec 1400-1700 PT
- EMSOC Annual Meeting 13 Dec 1300-1700 PT
- AGU Poster session 14 Dec
- EarthScope Town Hall Meetings, 1830-1930, 1930-2030
- EMWoG telecon 9 Jan, 2007 1400-1500 ET
- EarthScope National Meeting Abstract deadline 26 Jan, 2007
- EarthScope National Meeting Registration deadline 16 Feb, 2007
- EarthScope National Meeting 27-30 Mar, 2007
- Western GeoSwath Workshop 26-29 Apr, 2007 (see EOS, 2006,87, 221/224)