

**EMWoG Telephone Conference Call
Tuesday January 17, 2006, 2-3pm EST
Minutes and Action Items**

Present: Dean Livelybrooks, Phil Wannamaker, Martyn Unsworth, Kevin Mickus, Steve Park, Gary Egbert, Shane Ingate (quorum achieved).

Apologies: Rob Evans, Adam Schultz

IRIS Workshop:

Group discussed the opportunity for running a 1-day short-course on MT immediately before the IRIS Workshop (June 8-10 2006, Tucson AZ). Other short courses proposed for this year are on the Transportable (seismic) Array, DMC User Tutorial.

Group indicates that course material to cover a tutorial on joint seismic-MT inversion are not well-developed (no readily accessible software modules such as Matlab). Parks is giving a short course on MT field operations in April; which could be modified for a non-MT familiar audience and presented before the IRIS Workshop. Group recommended that part of the course be dedicated to accessing and extracting MT data at the DMC.

Action: Group will discuss further ideas at next telecon.

ES MT Status:

Change-order 15 was discussed with the EarthScope Office on Dec 28.

Recommendations from the Facilities Director indicate that the draft will first circulate through EFEC before being sent to NSF for comment.

Ring-core availability has been a concern of Barry Narod. Billingsly Magnetics are unable to maintain a 20G field during the cooling process, but because they are able to increase permeability through reducing ϕ_0 , their material may be serviceable. Alternatively, Metglas can provide material that broadly meets specifications.

Pilot Experiments in 2006:

Group agreed that pilot experiments are a means to mitigate project delays due to anticipated arrival of equipment in October 2006.

Group discussed that a Transportable pilot experiment of 6-months duration will be useful to define, and refine, minimum performance standards for contractor-installed stations.

Group recommended starting the pilot project in Oregon. OSU ran a GIS workshop on USArray site selection in Oregon, including MT sites. Group would like to see the 48 candidate locations found during this workshop. Scientific interest in Oregon is high, and so MT sites will be laid out on a 70-km grid wherever possible. However, because available funding does not allow a full complement of 200 sites/year to be deployed and demobbed, siting stations on a regular 70 km grid entails that not all parts of the country can be instrumented at such dense sampling.. Group agrees that it is likely that some

parts of the country will have reduced spatial sampling. The decision to deploy the mini-arrays will be driven by science.

Group agreed that permitting is an activity that potential installation contractors can bid for, but that this is not a necessary requirement for a successful bid. Siting/permitting could be a separate task with different contractors.

Group did discuss California. N. CA is scientifically interesting, but a negative response from CA seismic network operators to co-location with MT entails that an independent siting/permitting effort will be required in CA. Most MT contractors have traditionally been given sites that have been located and permitted; in the pilot experiment, the contractors will be expected to site, permit, install, maintain and demobilize.

Group discussed creating a map of all previous wideband/long-period MT experiments in the contiguous 48, and immediately beyond the border.

Action: Park will coordinate obtaining coordinates of earlier MT experiments, and plotting on a map. This will help in deciding what regions should be heavily populated, and what areas require sparse coverage.

Action: Schultz will work with Trehu (OSU) on siting in OR..

Action: Ingate will produce a draft of a RFQ for the pilot experiment and distribute by Friday.

Forthcoming meeting:

- Next telecon Tuesday, February 2, 2006, 2-3pm EST