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Pacific Northwest
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Preliminary Report:

Surface-to-Borehole and Surface Electromagnetic Surveys at the Hanford Leak Experiment

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Introduction

This is a preliminary report detailing the electromagnetic (EM) surveys and data interpretation for the leak experiment at the Hanford site. Two types of EM surveys were planned for the Hanford leak experiment held between June 5 and July 23, 2000. One survey used surface EM transmitters and borehole vertical magnetic field receivers (surface to borehole). Another survey consisted only of surface measurements, where an EM transmitter was located on the surface, and EM impedance measurements (complex ratio of electric field divided by orthogonal magnetic field) were made on a line across the expected path of the fluid flow from the leak experiment. Both these types of measurements were carried out at three times, once before any water was released, once just after the first 1000 gal were released, and once after all five 1000 gal releases were completed. The object of the measurements was to try to image conductivity changes in the top 20 m of the vadose zone caused by the introduction of the fluids.

Systems

The surface-to-borehole system consists of a surface transmitter capable of generating vertical and horizontal magnetic dipole moments on the order of 1000 amp-turn-m (Figure 1) and magnetic sensor coils for measuring the vertical magnetic field inside of boreholes at the site. The system was operated at four frequencies, 280, 488, 8727, and 20,000 hertz. Two types of magnetic field sensors were used. EMI type BF4 coils were used in the steel-cased boreholes since they have their maximum sensitivity below 1 KHz. The steel casings were expected to attenuate any signal above 1 KHz. A second slim-hole coil was used for the PVC cased wells since its maximum sensitivity is at 20 KHz, the upper end of our transmitted signal frequency range. Figure 2 shows the locations of the transmitters and the wells surveyed.

The surface survey line is also shown in Figure 2. The same transmitter was used for the surface line but was located 94.6 m to the southwest inline with the survey profile. The distance was chosen to place the transmitter at least 2 EM skin depths away from the survey sites. This distance would allow the fields to be approximately plane wave at the receiver sites. The data could thus be interpreted using magnetotelluric inversion codes without the complicating factors of the finite source dimensions. The data can also be interpreted with full three-dimensional (3-D) finite source inversion codes in the future.

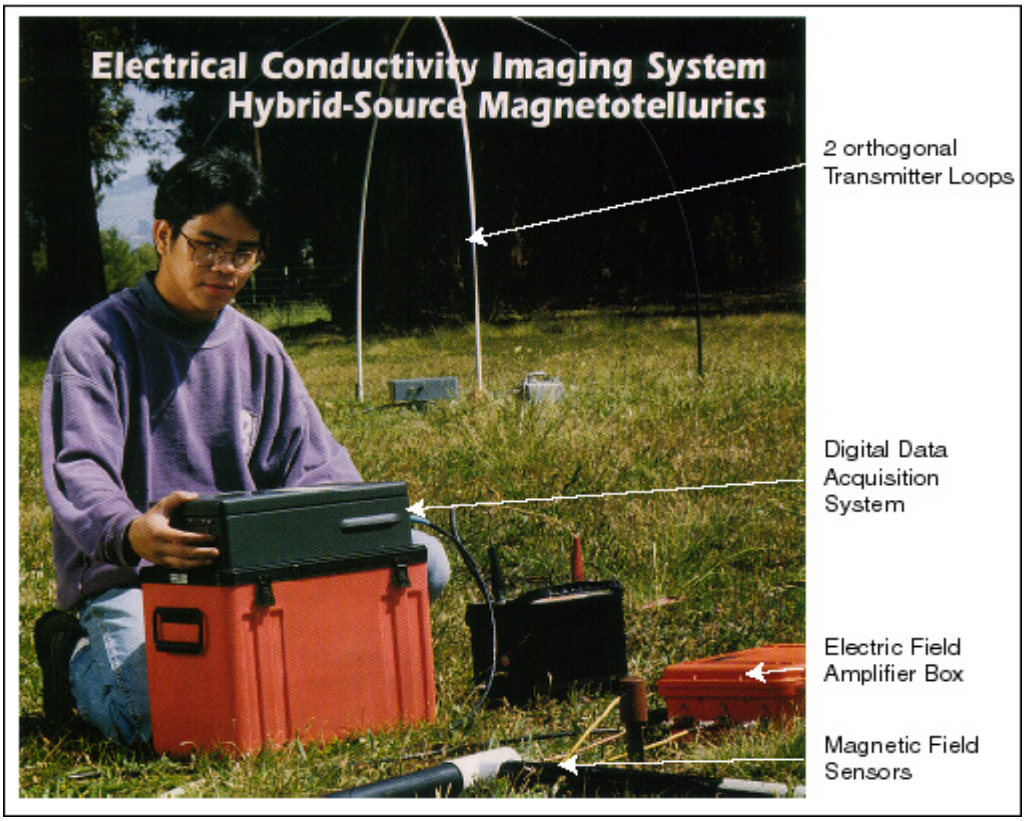

Figure 1. EMI Surface Transmitter and Surface Electronics

Expected Changes in Electrical Conductivity

To estimate the expected changes in the electrical conductivity in the vadose zone as the leak experiment proceeds, we can make use of Archie's Law. The bulk electrical conductivity (or its inverse resistivity) is dependent on the porosity, fluid saturation, and fluid resistivity of the formation. This dependence has been empirically established by Archie (1942) and is given below, where ρ_b is the bulk electrical resistivity, ρ_f is the pore fluid resistivity, ϕ is the porosity, and S_w is the water (fluid) saturation. The constants a and b can be empirically determined. In unconsolidated sediments, values of a=1.5 and b=2 are often good approximations.

$$\rho_b = \rho_f \cdot \phi^{-a} \cdot S_w^{-b} \tag{1}$$

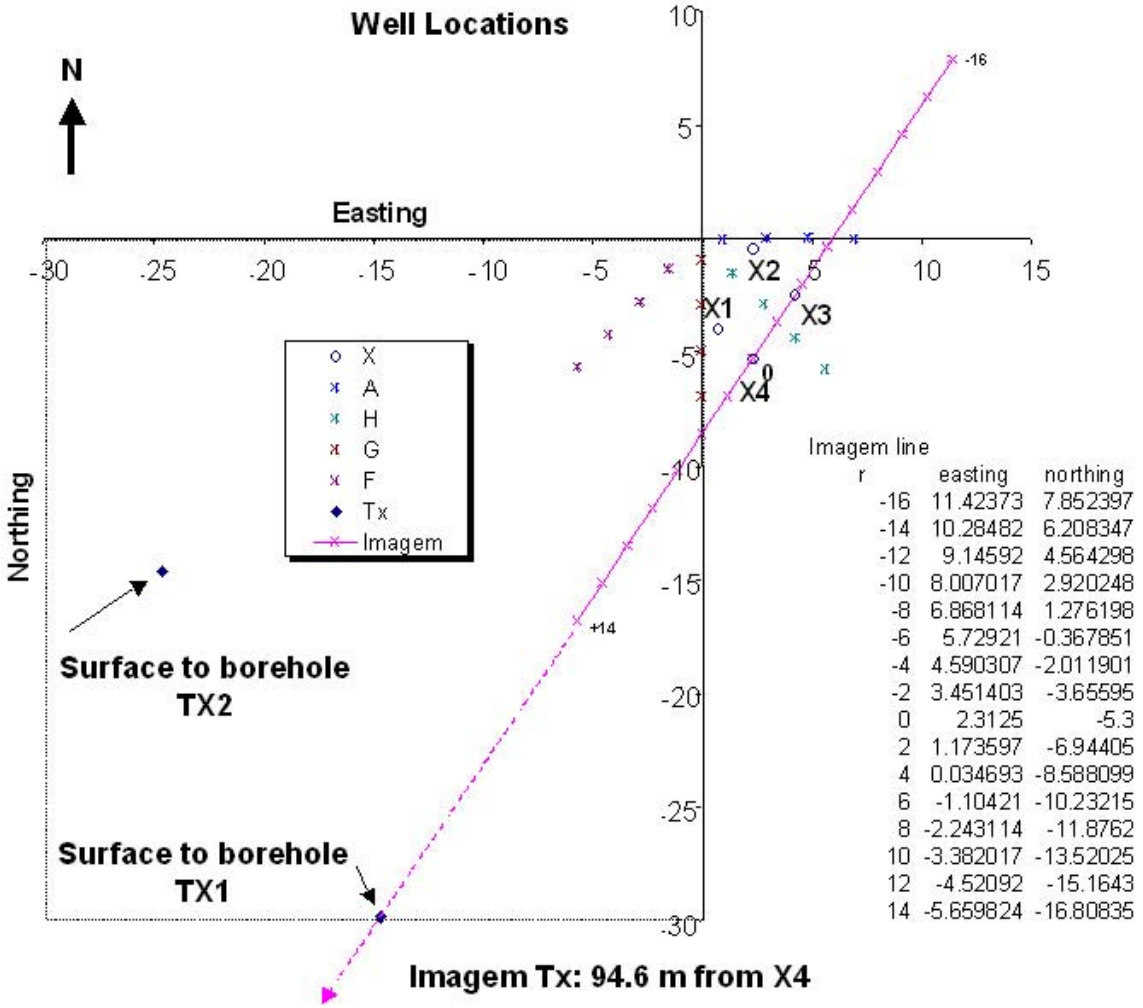

Figure 2. Transmitter Locations Relative to Center of Well Field. PVC wells (X1- X4) and steel cased wells (A,H,G,F) shown were used in the surface-to-borehole survey. The surface "Imagem" line is shown in pink. The transmitter for the Imagem survey was located 94.6 m to the southwest in-line with the survey sites.

Since the formation fluid resistivity was not measured before the experiment, we must try to estimate it using (1). If we assume an average porosity of 0.4 and a S_w of 0.25 for the porous layers (just above the shale at 6.5- and 11-m depths, for example), we can take bulk resistivity values from the measured logs. Figure 3 shows the logs from Wells X2 and X3. The layer resistivities just above 6.5- and 11-m depths are around 200 ohm-m. This yields a pore fluid resistivity of 3.1 ohm-m using Equation 1.

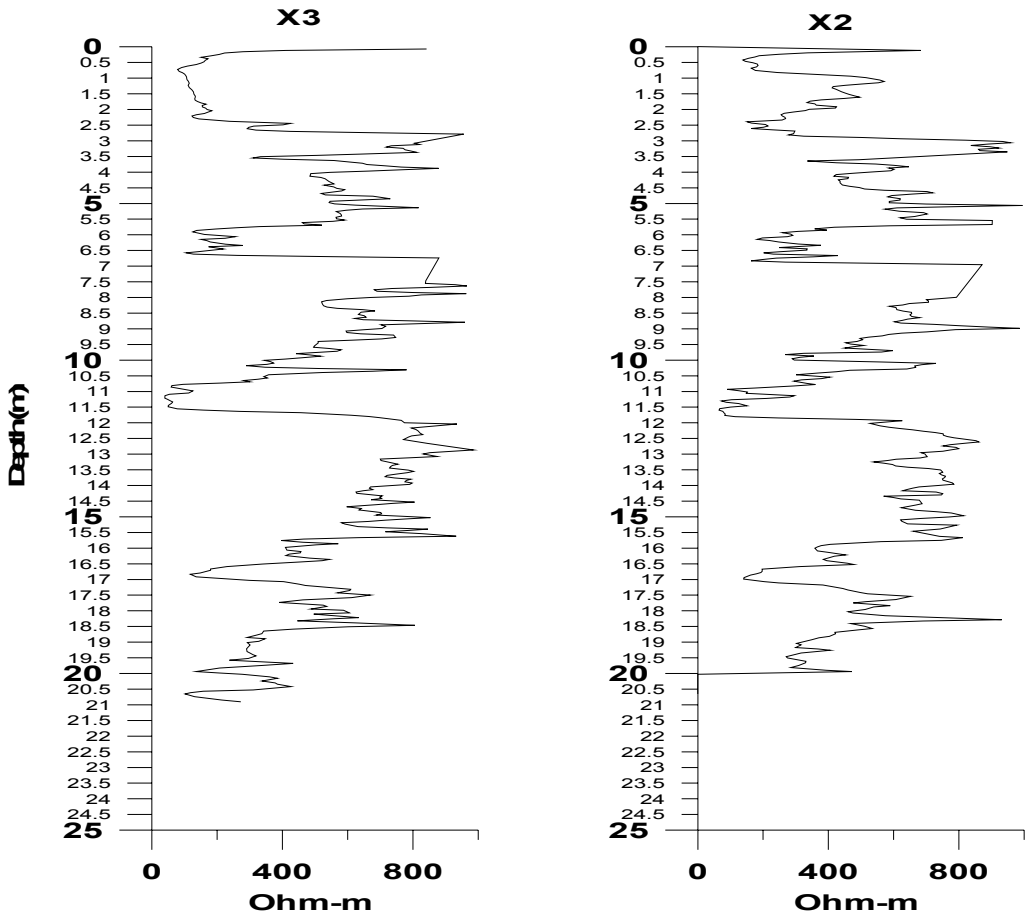

Figure 3. CPT Resistivity Logs from PVC Wells X2 and X3

As water is added by the leak experiment, the bulk resistivity of the formation can change by changing the pore fluid resistivity or the water saturation. The initial Columbia River water that was added in spills one and two had a resistivity near 74 ohm-m. This means that the bulk resistivity of the formations should increase after Spills 1 and 2. Beginning with Spill 3, Bromide was added, which lowered the resistivity of the water to around 4 ohm-m. At this value, the formation resistivity should decrease from its initial value through increased water saturation.

Of course, the assumptions about the porosity, initial water saturation, and Archie constants a and b may be incorrect. However, they should not be too far off, and this analysis leads to the conclusion that the expected change in formation resistivity (or its inverse conductivity) in the first two spills may be in doubt. There is a chance that the resistivity should increase initially and then decrease after the third spill. It may also be possible that movement (flushing) of in-place fluid by the new introduced fluid could cause spatial variation in the bulk resistivity of a layer that had homogeneous porosity and saturation. The resulting conductivity structure may be spatially complex.

EM Measurements Near Multiple Steel Casings (the steel forest)

The influence of the 64 steel-cased wells on the EM fields was of interest in the interpretation. While the steel casings act as current paths for DC electrical measurements, it was felt that they should not present a severe problem for the surface-to-borehole EM measurements since the dominate current flow from the surface transmitters would be horizontal, and the casing was vertical.

The casings have a small cross section in the horizontal directions and thus should act as isolated conductors. To test the magnitude of the steel casing on the response, a 3-D model was run to simulate the response in Borehole X1 from the TX1 source with the four nearest steel casings modeled as vertical conductive sheets. Figure 4 shows the geometry and Figure 5 shows the vertical magnetic fields in the X1 borehole.

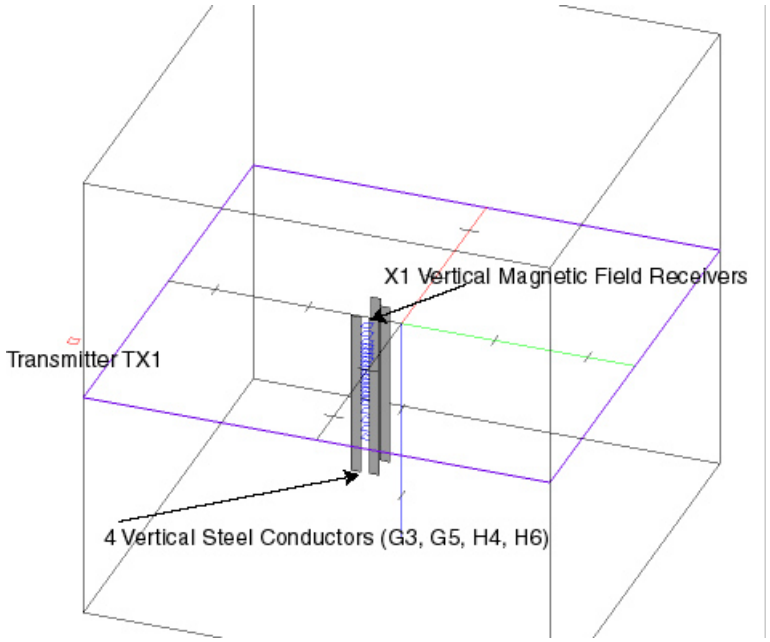

Figure 4. Four Vertical Conductive Sheets Representing Wells G3, G5, H4, and H6 Surrounding PVC Well X1. The vertical magnetic dipole transmitter TX1 at 8727 Hz was used.

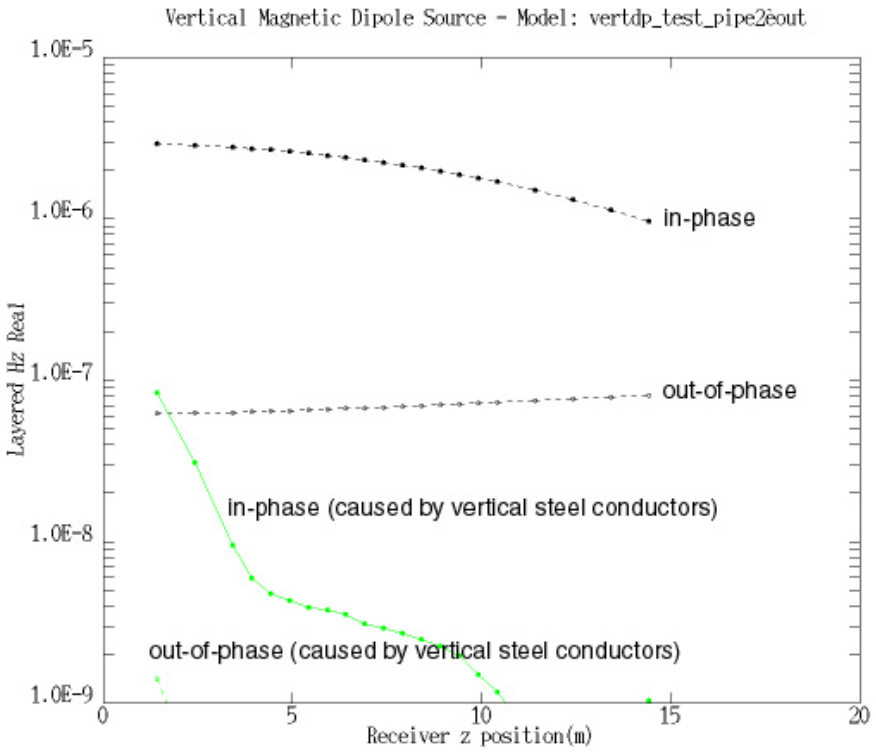

Figure 5. Vertical Magnetic Field Observed in Numerical Model Well X1 with 4 Surrounding Vertical Steel Conductors. The layered earth response (black) is at lease 2 orders of magnitude greater that the response due to the 4 steel casings (green). No distorting effects are seen in the out-of-phase component.

The four vertical steel plates do not distort the layered vertical magnetic fields. In particular, the effects seen in the X1 well (Figure 5 upper left panel) shown below are not present. This modeling indicates that the steel casings are not the source of noise in the measured EM fields.

Surface-to-Borehole Data

To date, only the 8727 Hz data have been analyzed in detail. During the initial data processing, the 8727 Hz data were determined to have the highest signal-to-noise ratio of the four frequencies collected. Figure 6 shows the Real (in-phase) and Quadrature (out-of-phase) vertical magnetic fields generated by the vertical magnetic dipole source at Location TX1, measured in the four PVC-cased boreholes taken on 5/23/2000 just before the initial release of water into the injection well. Also shown for reference are calculated fields from a 3-D numerical model constructed by interpolating the measured resistivity in the ERT2, ERT3, ERT4, ERT5, ERT6, ERT7, ERT8, X2, and X3 cone penetrometer (CPT) wells. The measured resistivities in these wells were interpolated at each measured depth using minimum curvature to fill a 3-D finite difference grid. This model was calculated using the algorithms of Newman and Alumbaugh (1997). The agreement between modeled and observed data is quite good,

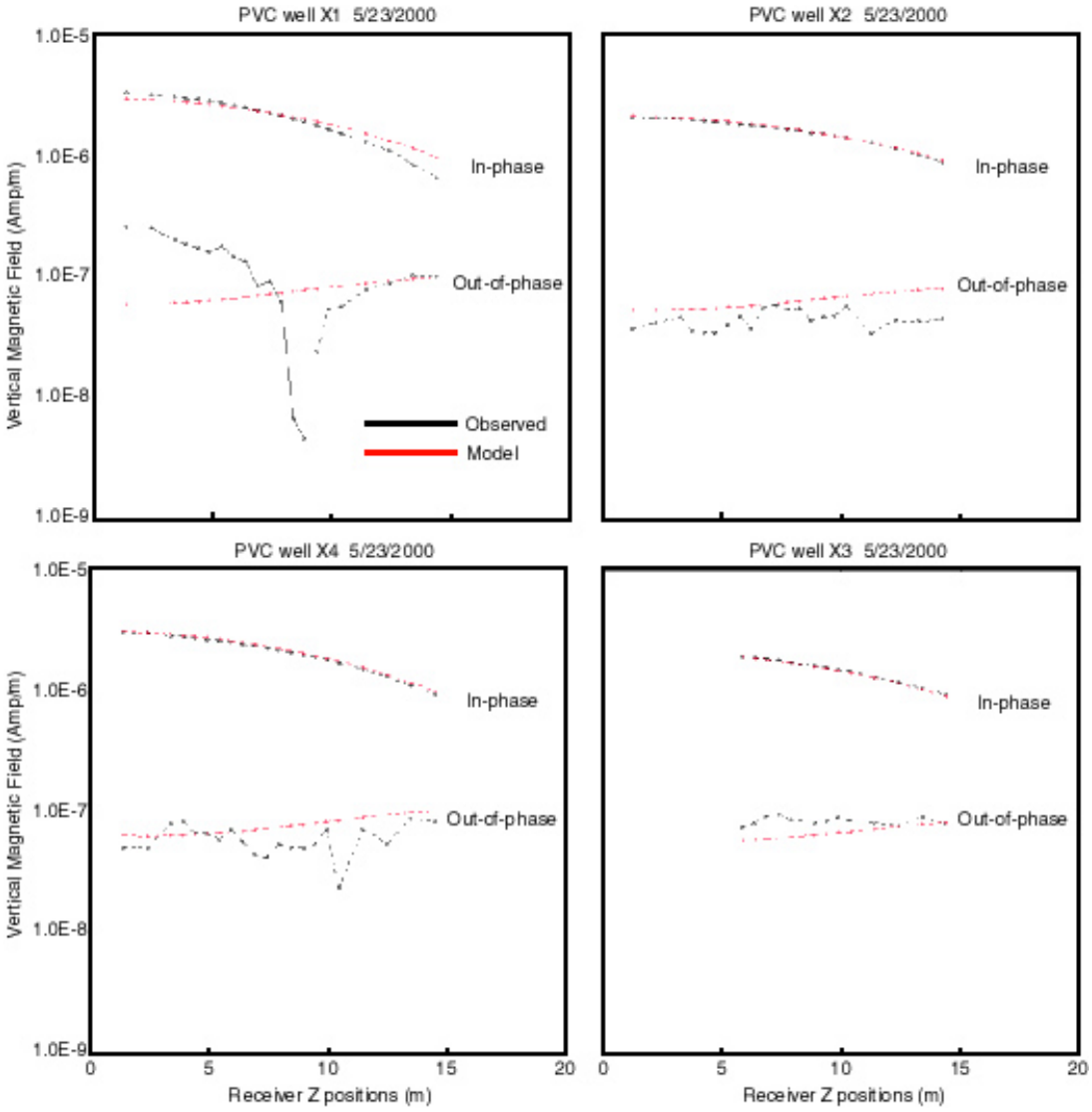

Figure 6. Vertical Magnetic Field at 8727 Hz in PVC Wells X1 to X4 from Vertical Magnetic Dipole Transmitter TX1 (black curves). Three-dimensional numerical model results are shown in red for the TX1 where the model was generated by interpolating available CPT resistivity logs in 3-D.

especially considering that the resistivity logs only cover a small portion of the model and give no information about the conductivity structure around the transmitter locations. The in-phase components of the observed data appear smoother than the out-of-phase components; however, it must be remembered that the in-phase field has the primary free space field generated by the transmitter in it. The primary free-space field is the source of energy but carries no information about the conductivity structure. The currents that are generated in the earth by the primary field cause secondary magnetic fields that add to the primary field. The secondary in-phase magnetic fields have the same degree of variation as the secondary out-of-phase fields; however, this is masked by the large primary field.

Figure 7 shows the phase of the vertical magnetic field in the four PVC boreholes at the three different measurement times. Phase (phase = arctan[out-of-phase/in-phase]) is often used since it synthesizes in one curve the behavior of both components. The change between initial conditions and after the first spill is only a few degrees of phase; however, after all five spills have occurred, the change is much larger. Thus, the observed fields are behaving in a qualitative way as would be expected. The more water that is added, the greater the change to the conductivity structure and the greater the change to the observed magnetic fields.

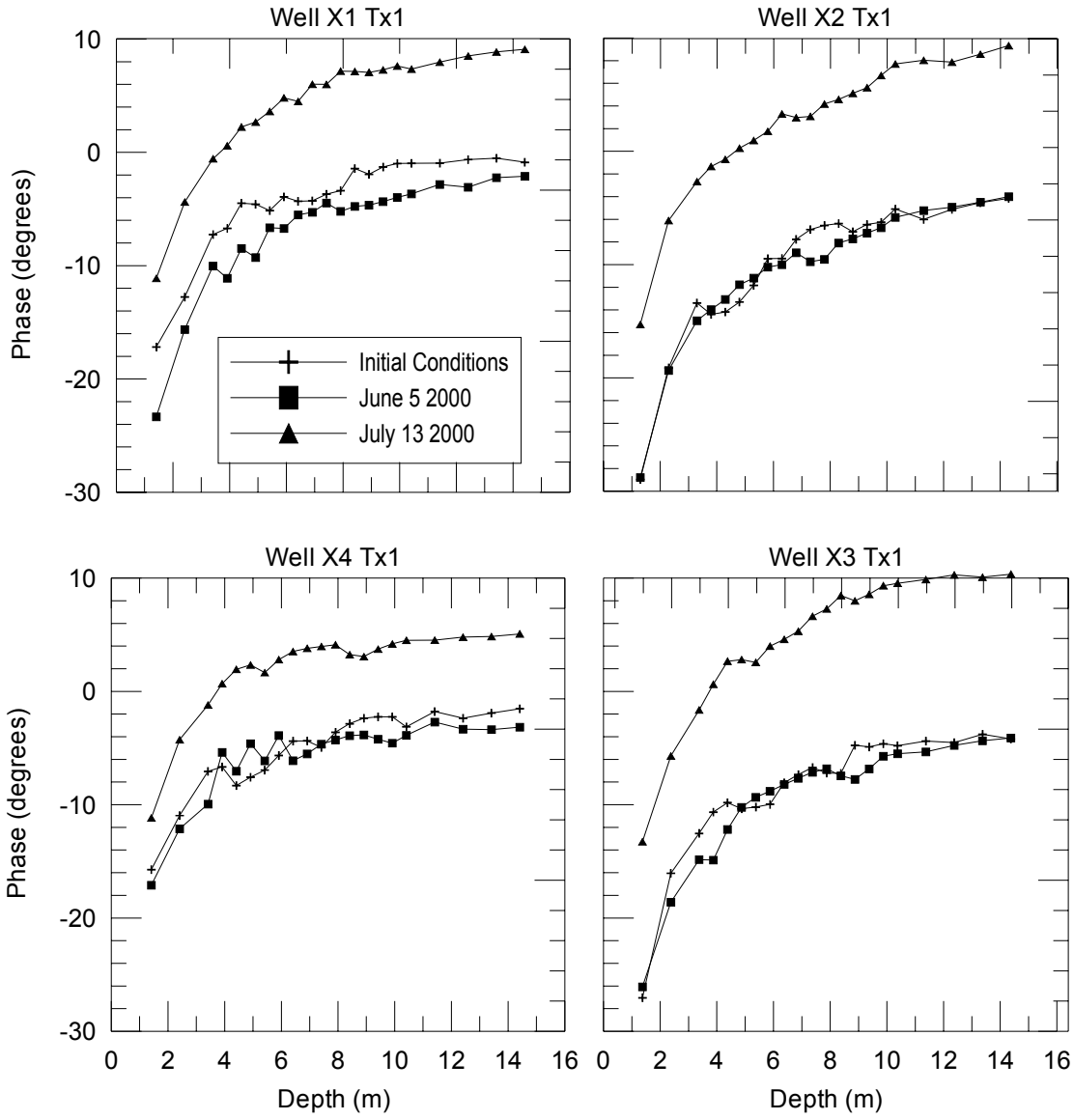

Figure 7. Vertical Magnetic Field Phase in Boreholes X1, X2, X3, and X4 at 5/23/2000 (initial conditions), 6/5/2000 (Phase 2), and 7/13/2000 (Phase 3)

Surface-to-Borehole EM Inversion

To interpret the observed data, 3-D inversion is used (Newman 1995). A finite difference grid was built that encompasses the transmitter and receiver areas and extends several hundred meters in every direction from the transmitter-receiver midpoint. Several possible combinations of starting models and source configurations can be considered. In particular, a starting model can be a halfspace or a model built by interpolating CPT resistivity logs (the model used to generate results in Figure 6 is one possible starting model). To date, the best results have been obtained using halfspace starting models where the halfspace resistivity is taken as the average conductivity from the CPT resistivity logs.

Four transmitters can be modeled at each date of acquisition. The run time of the 3-D inversions goes approximately linearly with the number of transmitters. To date, we have only been able to run inversion using single transmitters using our DEC Alpha and SGI Octane workstations. The inversion of the data using all four transmitters simultaneously will require the massively parallel machines at Sandia National Laboratories. We plan on beginning these runs in late September or early October 2000.

By inspecting the data from the four transmitters and comparing to 3-D forward models, we determined that the data from the vertical magnetic dipole source at the TX1 location and the horizontal magnetic dipole source at the TX2 location (see Figure 2) were best suited for single-source inversions. This was based on the complexity of the behavior of the out-of-phase components. The numerical forward models all produce relatively smoothly varying out-of-phase components as a function of depth in the receiver boreholes. Complex behavior, as seen in the out-of-phase component in X1 from the vertical magnetic dipole source at TX1 (Figure 6 upper left panel) require sharp spatial changes in conductivity that require many iterations for the inversions to converge.

Three-dimensional inversions were run on each data set to obtain a conductivity model. The models were then differenced to produce a 3-D conductivity difference model. Two differences are considered, one differencing the models from 6/5/200 and 5/23/2000 (after Spill 1 minus initial conditions) and one differencing the models from 7/13/2000 and 5/23/2000 (cumulative change from after all spills and initial conditions). Figure 7 shows nine depth slices through the 6/5/200 minus 5/23/2000 difference model.

When interpreting the 3-D inversion models, the volume of the model that the data are sensitive to must be considered. In general, the volume of the model that the data are sensitive to forms an elliptical region between the source and receiver (Spies and Habashy 1995). An example of this sensitivity region is shown in Figure 8 (Hoversten et al. 2000, Figure 16). It is important to note that this region is narrow between the source and receiver. The implication for our 3-D inversion models is that just because a feature is spatially confined does not mean that this is the total extent of the true feature. What is seen in the inversion model is the earth filtered by the sensitivity region. Thus the confined areas of increased or decreased conductivity seen in Figure 9 lie only in the sensitivity region for the TX1 transmitter, and the true spatial extent may extend beyond this.

The 3-D difference model shown in Figure 9 has a near-surface region of decreased conductivity to the southwest of the X wells and a deeper area of increased conductivity centered on the X wells.

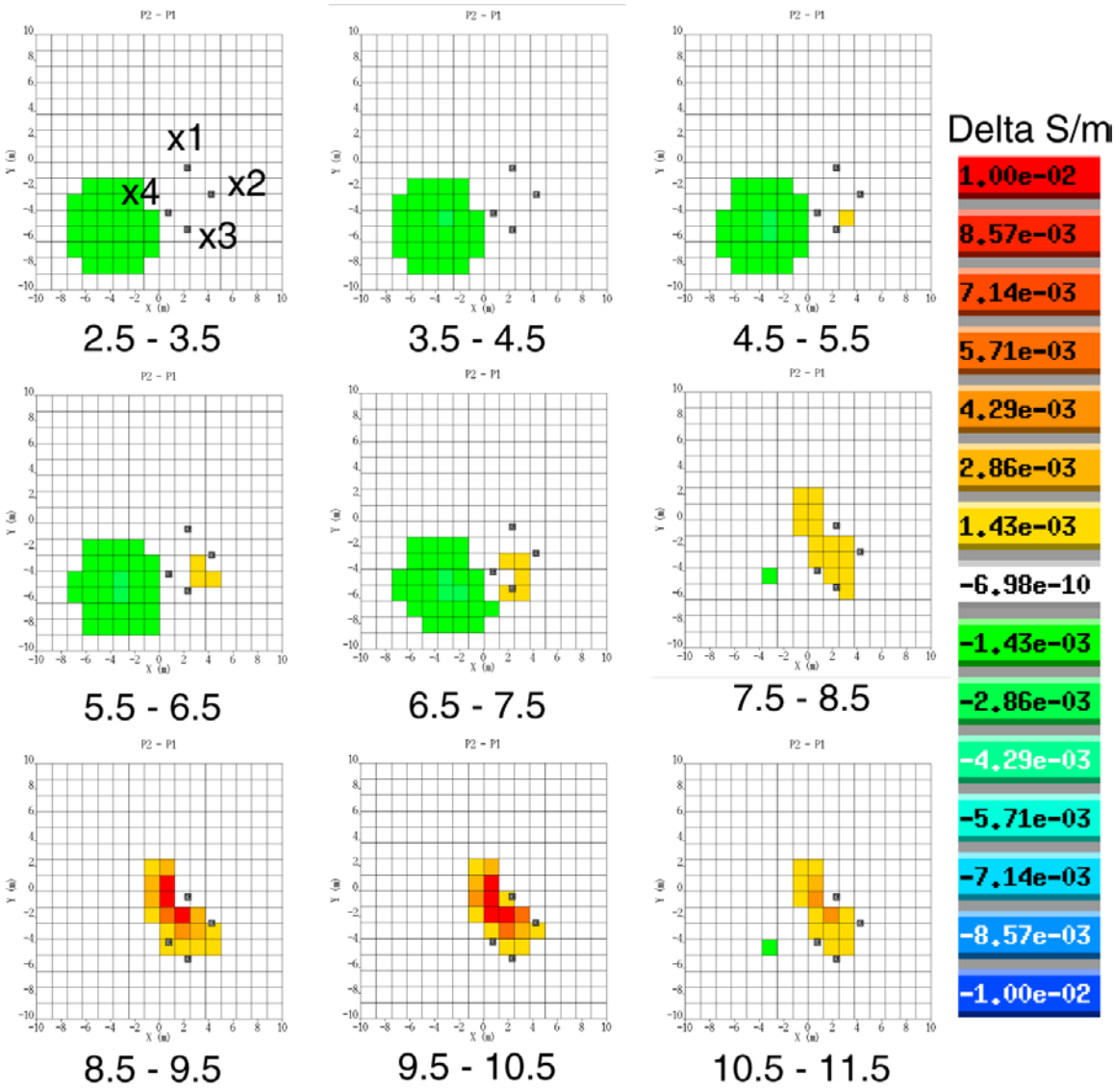

Figure 8. Plan Views of Conductivity Difference Between 6/5/2000 and 5/23/2000 for the Area Around PVC Wells X1 Through X4. Area covers ±10 m with the origin center of the steel well pattern. The vertical magnetic dipole source at the TX1 location (source to the southwest) was used.

One factor complicating the interpretation of the conductivity differences is that it rained at the test site between the initial measurements and the measurements after the first spill. The extent of water introduced at the surface during this rain is not known; however, near-surface changes in conductivity occur in the models in certain areas. In particular, there was a small fenced-off zone just to the southwest of the well area that had been used in a previous spell

experiment. This area was in line between our Transmitter TX1 and the X wells. The fenced-off area consistently shows up as a near-surface increase in conductivity between the first and second measurements.

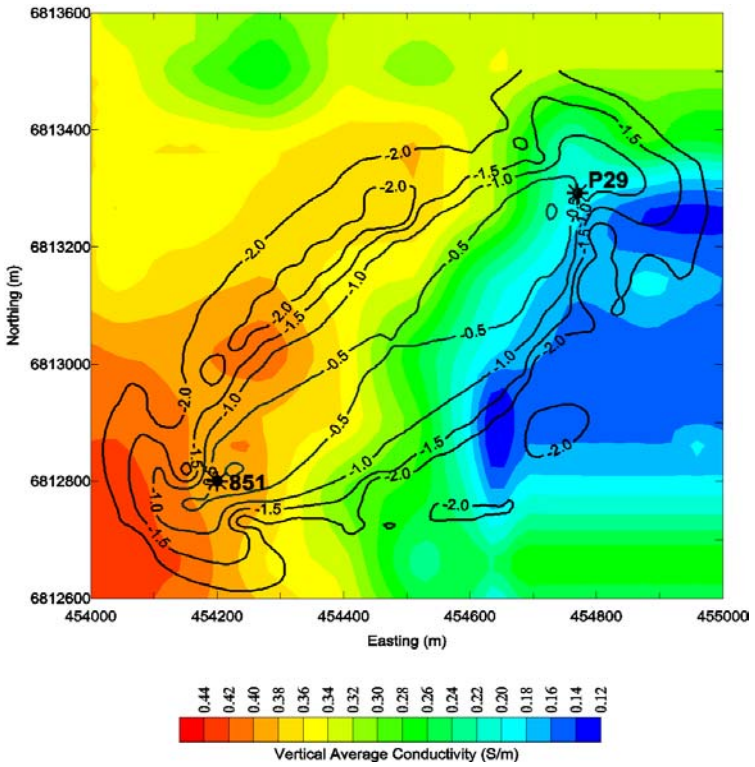

Figure 9. Vertical Averaged Conductivity Within the Reservoir Shown in Color Contours. The 3-D sensitivity (values of the Jacobian matrix) for a transmitter (851) and receiver (P29) at a depth of 2400 m (within the reservoir) are shown as black contour lines. The sensitivities are in log10 of the normalized absolute value. Contour values of -1 and -2 represent 1/10 and 1/100 of the maximum sensitivity respectively.

To compare the 3-D conductivity difference models with the measured water content changes in the steel cased wells, we have extracted vertical sections from the models approximately coincident with the H wells. The cross section that the H wells lie on runs approximately through the middle of the X wells at N45W. Figure 8 shows the conductivity difference between 6/5/2000 and 5/23/2000. The water content plots are the differences between measurements made on 6/9/2000 and 5/5/2000 so there is not an exact time correspondence between the data presented.

The conductivity increase shown in Figure 10 lies just below the zone of maximum water content change. The zone of increased conductivity does terminate laterally near the H4 well as does the water content increase. This observed increase in conductivity seems to contradict the arguments made above about the effects of introducing the Columbia River water. We speculate that we may be seeing a concentration of higher conductivity pore fluid with more resistive fluid

on top. Figure 11 shows the conductivity difference between 7/13/2000 and 5/23/2000 along the same profile. The maximum positive increase in conductivity has moved down and to increasing offset from the injection point. In this case, the maximum conductivity difference occurs more coincident with the maximum water-content changes, although there are differences.

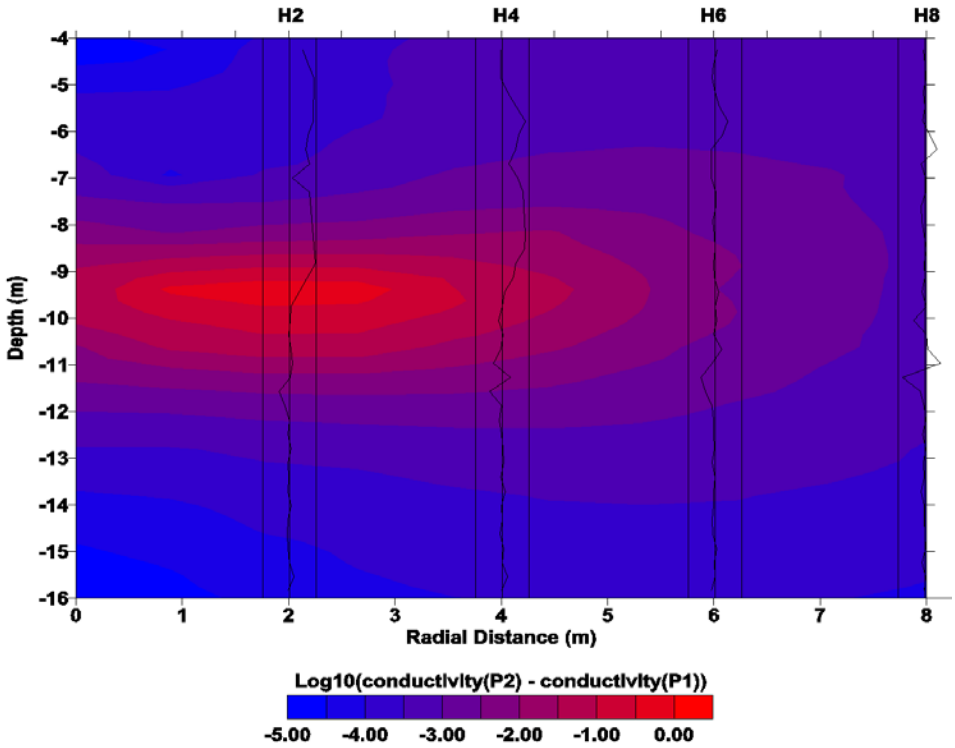

Figure 10. Conductivity Difference Between 6/5/2000 and 5/23/2000 for Data from Horizontal Magnetic Dipole at TX2. Overlays are the water-content changes between 6/9/2000 and 5/5/2000 (water-content change range: ±10%).

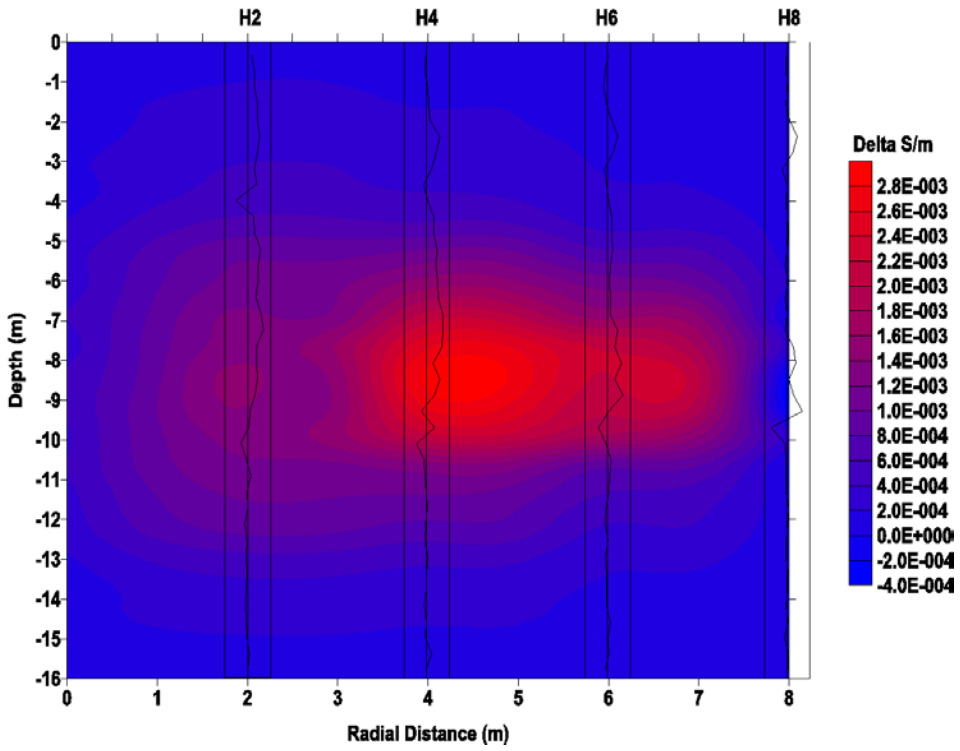

Figure 11. Conductivity Difference Between 7/13/2000 and 5/23/2000 for Data from Horizontal Magnetic Dipole at TX2. Overlays are the water-content changes between 6/9/2000 and 5/5/2000 (water content change range: ±10%).

We have tried to enhance the vertical resolution of the images by incorporating structural information from the borehole logs. We interpolated three tops using all ERT and X2 and X3 logs. The three tops (see Figure 3) are near 2.5, 6.5, and 11 m in depth. These interpolated surfaces were used in the 3-D inversions as tears in the smoothing functions. This allows the conductivity to change abruptly across these surfaces (as it does in the geology). This often reduces vertical smoothing at these boundaries. Figure 12 shows the inversion of the same data shown in Figure 11 with these "tears" in the smoothing incorporated. The effects of the "tears" can be seen in the figure at depths of 2.5, 6.6, and 11 m. While the image may better represent known sharp boundaries, it unfortunately has placed the maximum increase in conductivity too far away from the injection point (compared to the water-content changes).

We will continue to explore the use of structural information in the inversions to see if ultimately this will provide more detailed and accurate results.

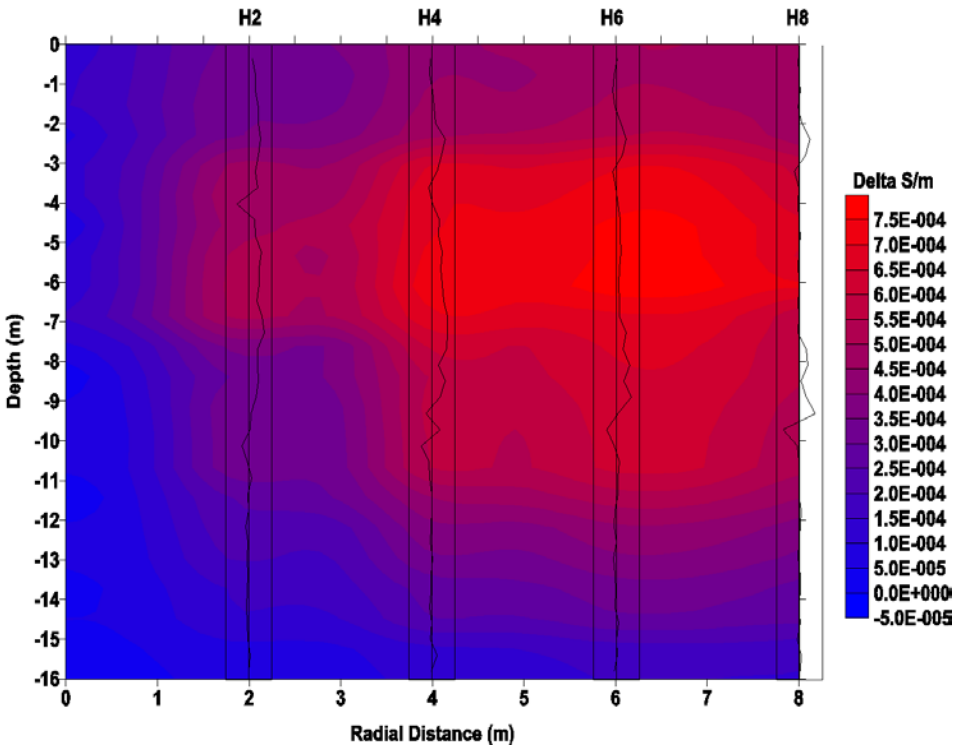

Figure 12. Conductivity Difference Between 7/13/2000 and 5/23/2000 for Data from Horizontal Magnetic Dipole at TX2. Overlays are the water-content changes between 6/9/2000 and 5/5/2000 (water-content change range: ±10%). Three structural surfaces at 2.5-, 6.5-, and 11-m depths were used to break the vertical smoothing.

Inversion Data Misfits

To date, the data misfits achieved in our 3-D inversions are not as good as we would like. There are noise elements in the data that produce scatter in the measured fields as well as unknown noise elements that produce responses seen in the out-of-phase components that are difficult to explain with 3-D models where the properties vary slowly in space. Examples of both are seen in the data shown in Figure 6. The out-of-phase components measured in Wells X2, X3, and X4 show representative scatter. The out-of-phase component measured in X1 is clearly anomalous. It is difficult to explain this response in light of the responses measured in the nearby wells. At this date, we have not determined if responses such as seen in Figure 6 can be consistent with a realistic earth model or if the X1 response represents some localized (next to X1) noise source such as a buried horizontal pipe or cable.

Figure 13 and Figure 14 show observed and calculated data for the inversions of 5/23/2000 and 7/13/2000, respectively, from the horizontal magnetic dipole transmitter at TX2.

These are the inversions that were used to generate the conductivity difference shown in Figure 11. The out-of-phase response observed in X1 and X2 of Figure 14 shows behavior that is more complex than data scatter about a smooth curve.

Further inversions will be run to push the misfit as far as possible at that stage that we will have to access if the character of the data is due to complex spatial variations in conductivity or is some form of noise. Inversions that are in progress at the time of this writing are coming close to fitting the rapid changes in out-of-phase components as a function of depth, but it is too early to tell if the resulting models are geologically reasonable.

High Level of Noise in EM Data Set

The largest limiting factor in our surface-to-borehole EM data interpretation is the relatively high level of noise in the EM data. Many of the noise sources are unknown, although we did observe a very strong VLF signal near 20kHz (Figure 15) that corresponded to the highest frequency we had hoped to use. In retrospect, we should have conducted a noise analysis on the site before data acquisition began and adjusted our transmitted frequencies accordingly. We did conduct repeat measurements such as shown in Figure 16 where the X4 borehole was sequentially logged. The magnitude of observed phase repeatability differences corresponds to the variations seen in the out-of-phase components of the vertical magnetic fields in many wells.

Surface IMAGEM Measurements

In addition to the surface-to-borehole EM measurements, we used the EMI "IMAGEM" system to profile one transect across the site. This transect was occupied on 5/23/2000, 6/5/2000, and 7/13/2000. The transect and transmitter location is given in Figure 2. Frequencies between 1 KHz and 66 KHz were acquired. The data above 3 KHz can be treated as from a plane-wave source and are thus inverted using plane-wave codes. The three data sets were inverted for 2-D resistivity (Mackie et al. 1997) and then differenced to show changes in resistivity below the profile. Figure 17 shows the three resistivity models.

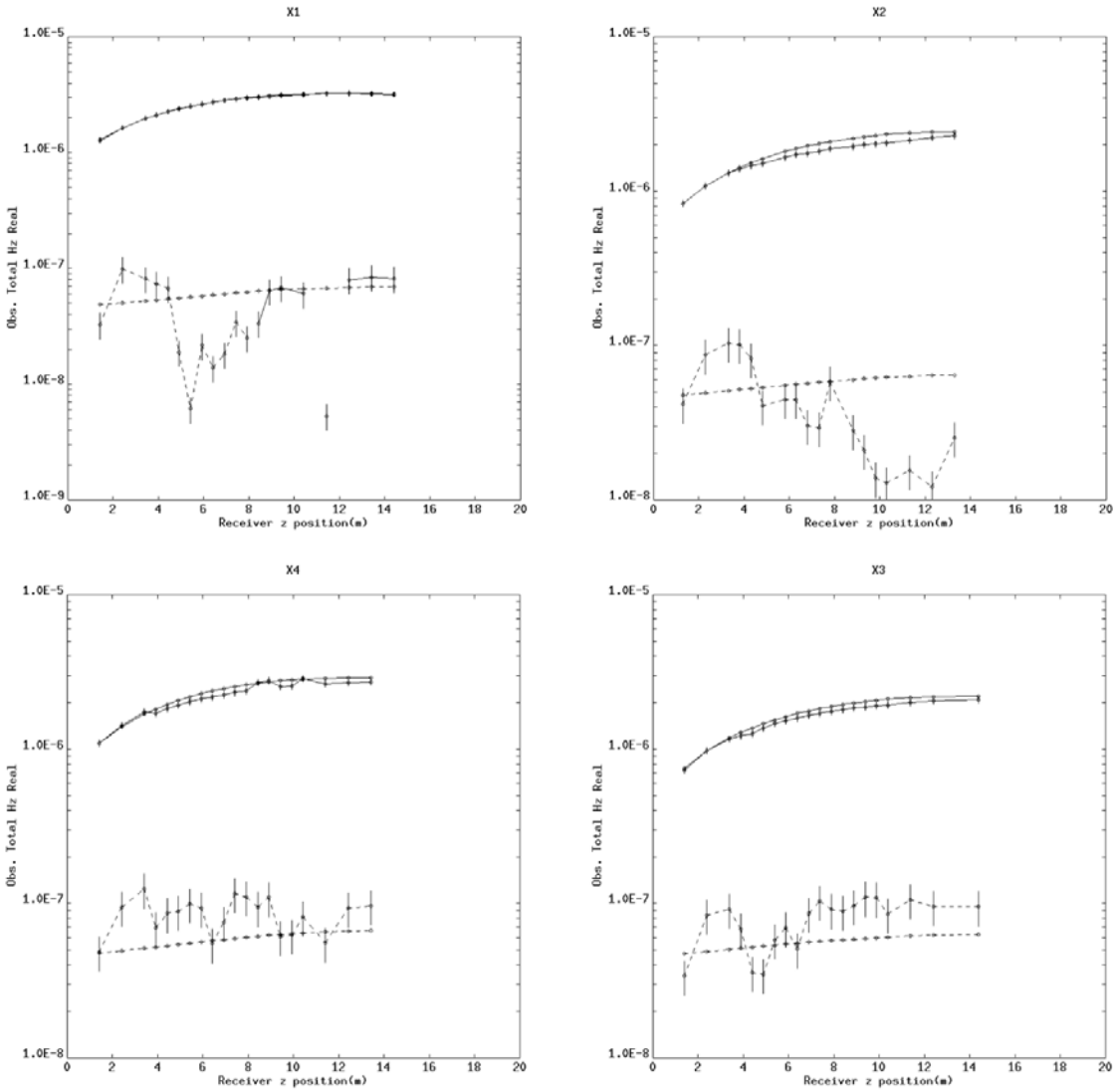

Figure 13. Observed and Calculated Data Vertical Magnetic Field in Boreholes X1 Through X4 for 5/23/2000 Inversion from Horizontal Dipole at TX2. Upper curves are in-phase, lower curves are out-of-phase. Observed data have error bars.

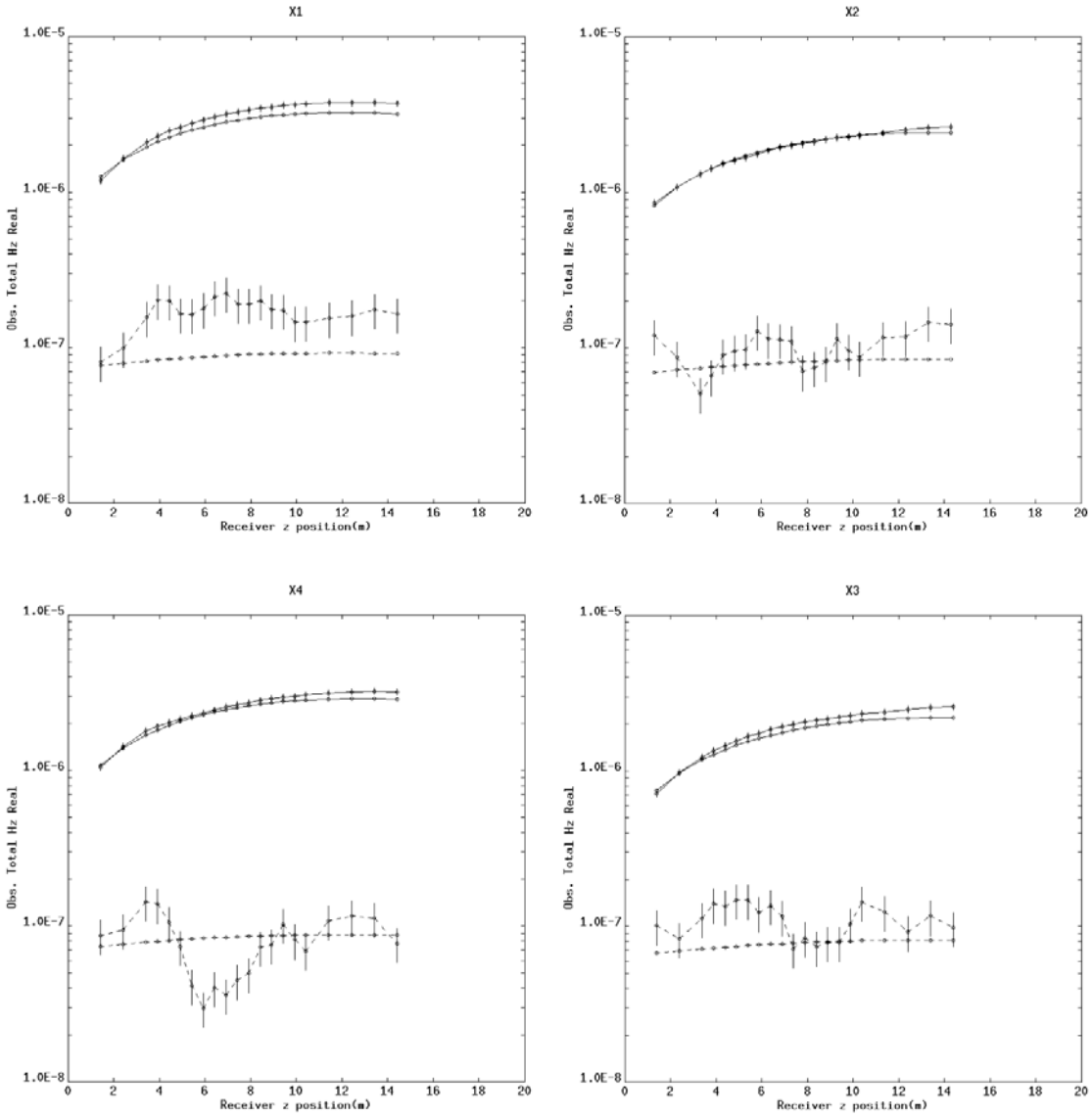

Figure 14. Observed and Calculated Data Vertical Magnetic Field in Boreholes X1 Through X4 for 7/13/2000 Inversion from Horizontal Dipole at TX2. Upper curves are in-phase; lower curves are out-of-phase. Observed data have error bars.

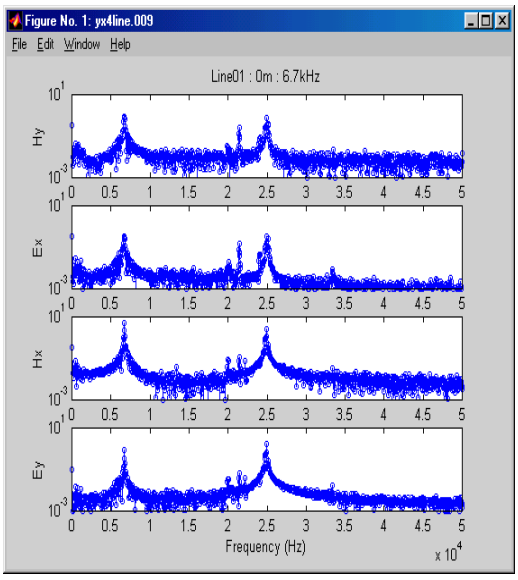

Figure 15. Field Spectrum Taken when Measurements were in X4. Red line is Run 1, and local transmitter is operating at 6.7 KH.z. Blue dots are Run 2.

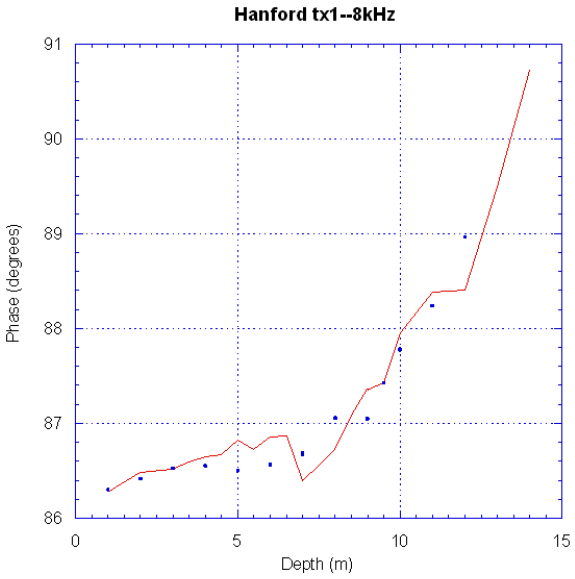

Figure 16. Repeat Vertical Magnetic Field

The data quality was generally good. The observed and calculated apparent resistivity and phase data for the 5/23/2000 inversion are shown in Figure 18 and Figure 19, respectivly. The resistivity differences are shown in Figure 20.

Between 6//5/2000 and 5/23/2000, there was a general decrease in near-surface resistivity and an increase at depth. The increase at depth is puzzeling and unexplaned. However, it is consistant with DC resistivity data collected by Jim Fink. Between 7/13/2000 and 5/23/2000, the main difference is a decrease in resistivity centered around Well X3. The depth of the resistivity decrease is greater than observed in the water content logs but has approximatly the correct spatial extern.

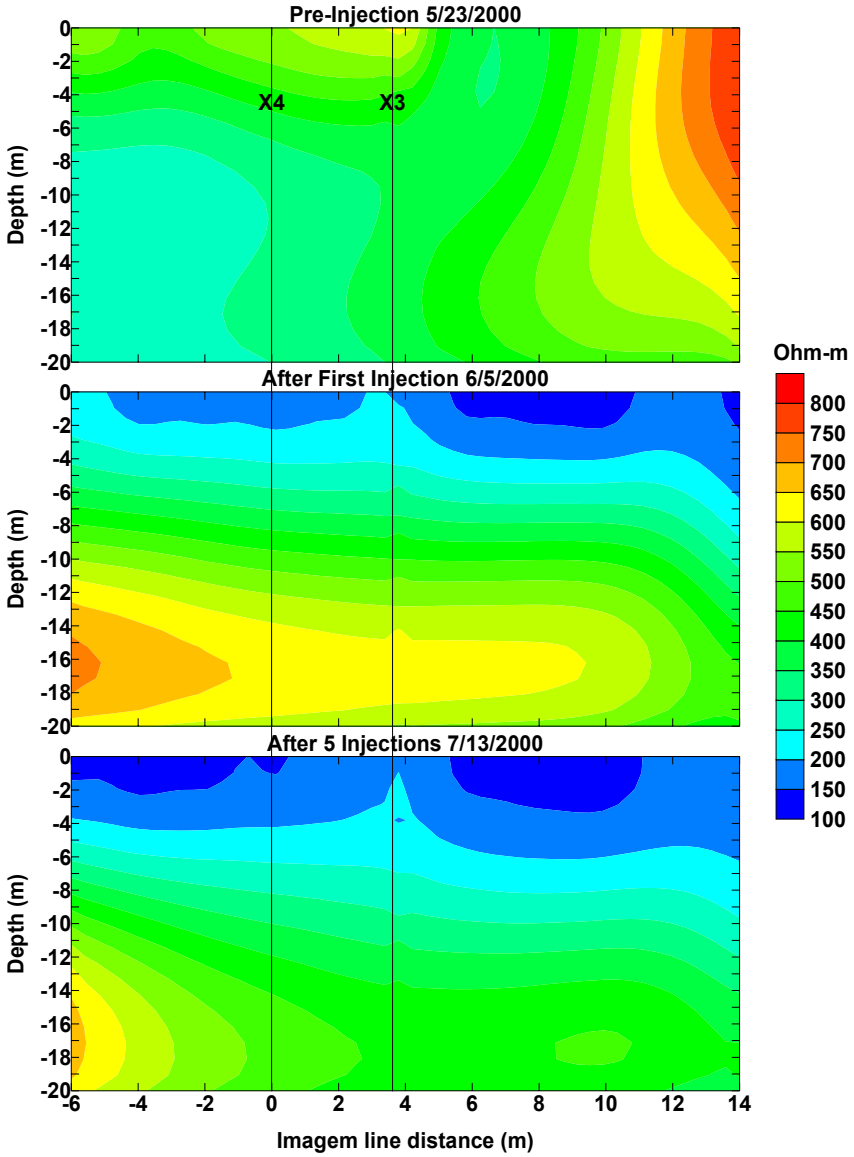

Figure 17. **2-D Inverse Resistivity Models. The top panel is 5/23/2000, the middle panel is 6/5/2000, and the bottom panel is 7/13/2000. Positive coordinates are toward the southwest.**

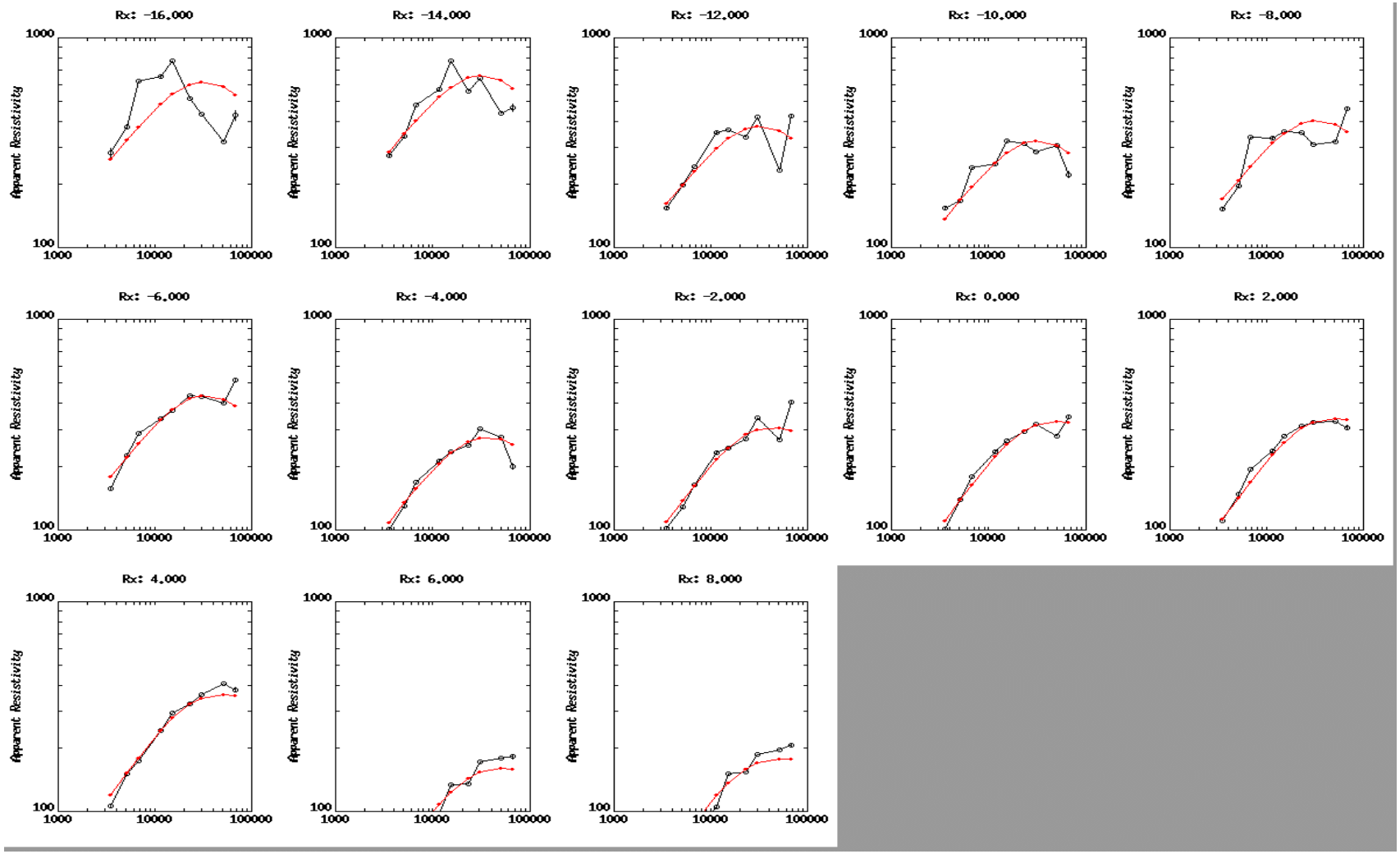

Figure 18. **Apparent Resistivity Data for 2-D Inversion of 5/23/2000 Data. Observed data are black; red curves are best-fit inversion model. Receiver location Rx:-16 is to the northeast and Rx 8 is to the southwest.**

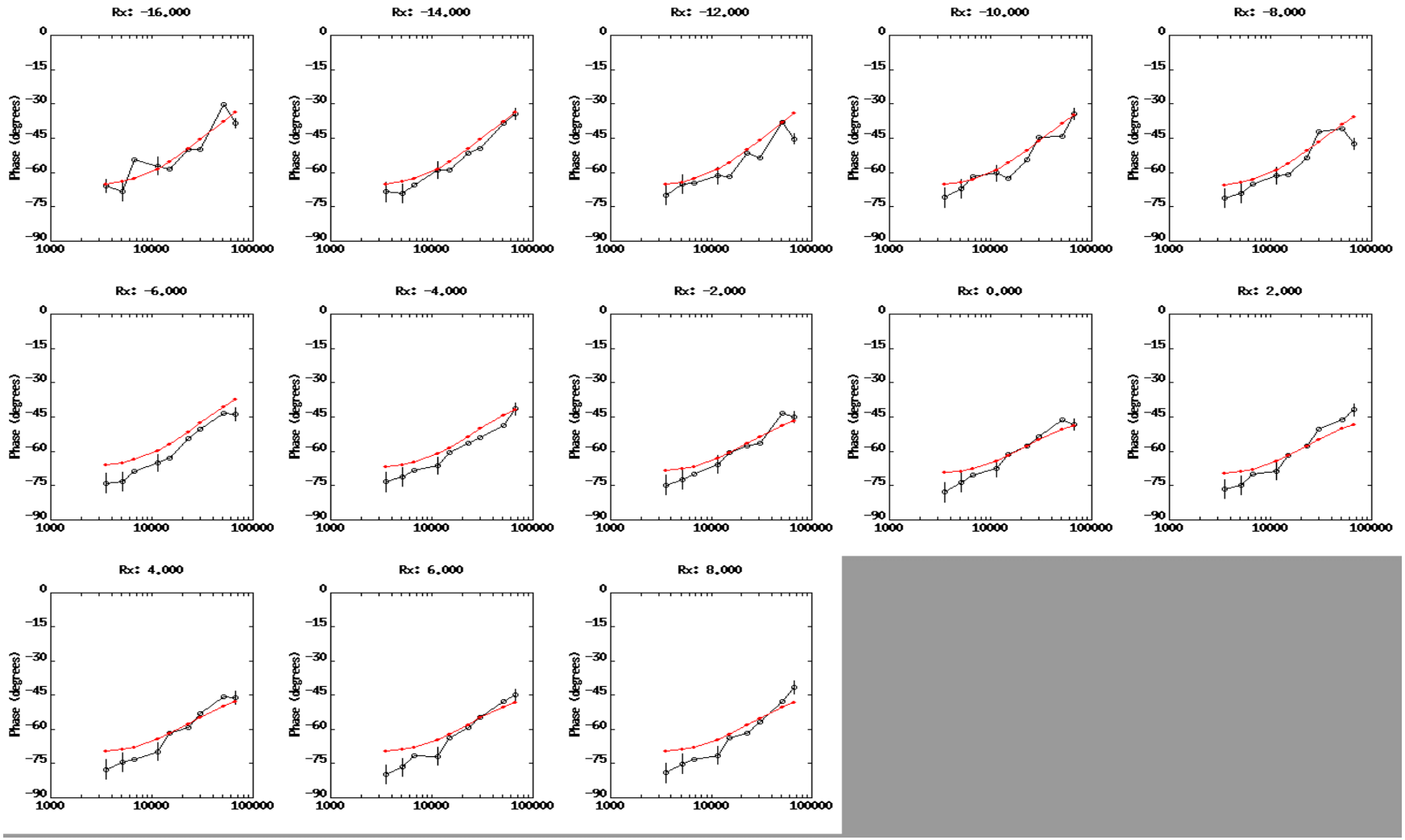

Figure 19. Phase Data for 2-D Inversion of 5/23/2000 Data. Observed data are black; red curves are best-fit inversion model. Receiver location Rx:-16 is to the northeast and Rx 8 is to the southwest.

It is evident that to image the top 15 m in detail from purly surface measurements would require higher frequencies than the IMAGEM system can produce. A different system, now in final acceptance tests, is capable of frequencies up to 1 MHz, which would be more sutible to imaging the top few meters.

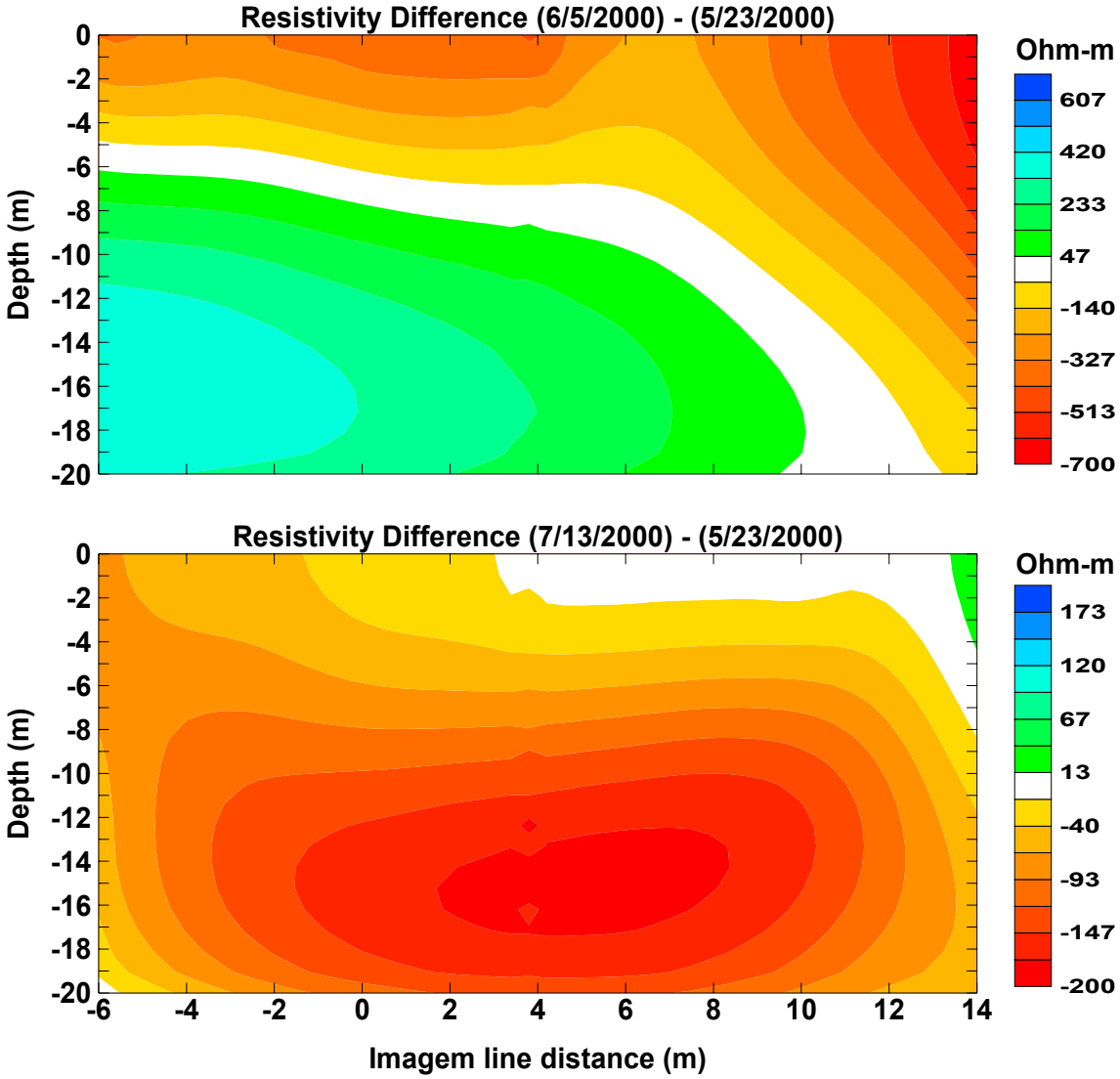

Figure 20. Resistivity Difference Images: Upper Panel (6/5/2000) Minus (5/23/2000) Lower Panel (7/13/2000) Minus (5/23/2000)

Conclusions and Recommendations

Observed data quality in the surface-to-borehole EM experiment was lower than desired. In retrospect, we should have taken more time up front to do a thorough noise analysis and adjusted our acquisition. The 3-D inversions of the data that have been done to date offer tantalizing glimpse of the information that can be gained by surface-to-borehole EM. Ongoing inversions using multiple transmitters and possibly other frequencies may yet improve on the imaging shown in this preliminary report. Some detailed 3-D models that simulate resistive and conductive plumes in this experiment are being run and will be inverted for comparison with the observed data.

In any future experiments where conductivity imaging is used to infer water content, it is essential to measure the initial pore fluid resistivity so that we can estimate whether a resistivity increase or decrease should be expected. For the calibration of conductivity imaging techniques, whether they are DC or EM, repeat resistivity logging runs should be made in observation boreholes for comparison with the conductivity estimated from geophysics.

The surface impedance IMAGEM survey operated at too low a frequency to give detailed images of the upper 15 m. Data quality was quite good and suggests that a higher frequency system would be a good tool for near-surface imaging. The general behavior of the changes in resistivity shown in the resistivity differences is consistent with the movement of water downward and outward from the release point over time. In addition, it seems to be consistent with observations made in the surface DC resistivity array. The presence of increased resistivity at depth as a function of time is unexplained. Further modeling and comparison of different inversion algorithms on this data will be preformed to access the causes of the deep increase in resistivity.

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Appendix 1: Surface-to-Borehole Data

The surface-to-borehole data files have the following format.

Line 1: hx or hz refers to the transmitter being a horizontal or vertical dipole, respectively
Freq: is the operating frequency
Area: not used
Dip: the dip of the dipole if it is hx
Strike: the strike of the dipole if it is hx
Line 2: the number of receivers in the file
For each receiver, there may be more than one transmitter, so each receiver has a group of transmitter coordinates and observed fields with it.
Line 3: The receiver X, Y, and Z coordinates (in meters)
After each receiver line is a line with the number (N) of transmitters for that receiver
After the number of transmitters line there are N lines, one for each transmitter.
Each transmitter line has the transmitter X, Y, and Z followed by the in-phase, out-of-phase and in-phase error and out-of-phase error.

Horizontal magnetic dipole transmitter at location TX1, Phase 1 :

```
hx freq: 8727 area: 1 dip: 0.0  strike: 63.81
84
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 -1.750000 5.189834e-007 -2.866148e-007 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 -1.750000 6.396313e-007 -2.218070e-007 1
rx: 3 2.312500 -0.456250 3.299000
1
-14.657200 -29.796300 -1.750000 8.111850e-007 -1.931506e-007 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 -1.750000 9.117637e-007 -2.341436e-007 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 -1.750000 9.891774e-007 -2.499703e-007 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 -1.750000 1.057840e-006 -2.502022e-007 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 -1.750000 1.119187e-006 -2.345389e-007 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 -1.750000 1.165049e-006 -1.945036e-007 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 -1.750000 1.230337e-006 -2.049962e-007 1
rx: 10 2.312500 -0.456250 6.799000
1
-14.657200 -29.796300 -1.750000 1.260863e-006 -1.721450e-007 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 -1.750000 1.294954e-006 -1.569208e-007 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 -1.750000 1.334960e-006 -1.532103e-007 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 -1.750000 1.375359e-006 -1.538659e-007 1
rx: 14 2.312500 -0.456250 8.799000
1
-14.657200 -29.796300 -1.750000 1.427988e-006 -1.778567e-007 1
rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 -1.750000 1.463832e-006 -1.660323e-007 1
rx: 16 2.312500 -0.456250 9.799000
1
-14.657200 -29.796300 -1.750000 1.496789e-006 -1.642742e-007 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 -1.750000 1.523954e-006 -1.359552e-007 1
rx: 18 2.312500 -0.456250 11.299000
```

```
1
-14.657200 -29.796300 -1.750000 1.623044e-006 -1.711131e-007 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 -1.750000 1.684322e-006 -1.514458e-007 1
rx: 20 2.312500 -0.456250 13.299000
1
-14.657200 -29.796300 -1.750000 1.743664e-006 -1.385570e-007 1
rx: 21 2.312500 -0.456250 14.299000
1
-14.657200 -29.796300 -1.750000 1.780771e-006 -1.296896e-007 1
rx: 1 4.250000 -2.503125 1.377000
1
-14.657200 -29.796300 -1.750000 5.539139e-007 -2.827996e-007 1
rx: 2 4.250000 -2.503125 2.377000
1
-14.657200 -29.796300 -1.750000 6.846779e-007 -1.970062e-007 1
rx: 3 4.250000 -2.503125 3.377000
1
-14.657200 -29.796300 -1.750000 8.754312e-007 -1.947064e-007 1
rx: 4 4.250000 -2.503125 3.877000
1
-14.657200 -29.796300 -1.750000 9.291618e-007 -1.748860e-007 1
rx: 5 4.250000 -2.503125 4.377000
1
-14.657200 -29.796300 -1.750000 1.003222e-006 -1.736732e-007 1
rx: 6 4.250000 -2.503125 4.877000
1
-14.657200 -29.796300 -1.750000 1.075883e-006 -1.967728e-007 1
rx: 7 4.250000 -2.503125 5.377000
1
-14.657200 -29.796300 -1.750000 1.141872e-006 -2.058357e-007 1
rx: 8 4.250000 -2.503125 5.877000
1
-14.657200 -29.796300 -1.750000 1.205037e-006 -2.118770e-007 1
rx: 9 4.250000 -2.503125 6.377000
1
-14.657200 -29.796300 -1.750000 1.255301e-006 -1.778355e-007 1
rx: 10 4.250000 -2.503125 6.877000
1
-14.657200 -29.796300 -1.750000 1.332266e-006 -1.718344e-007 1
rx: 11 4.250000 -2.503125 7.377000
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rx: 12 4.250000 -2.503125 7.877000
1
-14.657200 -29.796300 -1.750000 1.456716e-006 -1.842686e-007 1
rx: 13 4.250000 -2.503125 8.377000
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-14.657200 -29.796300 -1.750000 1.518385e-006 -1.930369e-007 1
rx: 14 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 -1.750000 1.543354e-006 -1.286597e-007 1
rx: 15 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 -1.750000 1.569035e-006 -1.345083e-007 1
rx: 16 4.250000 -2.503125 9.877000
```

```
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-14.657200 -29.796300 -1.750000 1.639876e-006 -1.377181e-007 1
rx: 18 4.250000 -2.503125 11.377000
1
-14.657200 -29.796300 -1.750000 1.676924e-006 -1.287638e-007 1
rx: 19 4.250000 -2.503125 12.377000
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-14.657200 -29.796300 -1.750000 1.746302e-006 -1.380861e-007 1
rx: 20 4.250000 -2.503125 13.377000
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-14.657200 -29.796300 -1.750000 1.777356e-006 -1.177799e-007 1
rx: 21 4.250000 -2.503125 14.377000
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-14.657200 -29.796300 -1.750000 1.829474e-006 -1.344402e-007 1
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-14.657200 -29.796300 -1.750000 9.247283e-007 -2.604311e-007 1
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-14.657200 -29.796300 -1.750000 1.592932e-006 -1.861202e-007 1
rx: 5 2.312500 -5.300000 4.412000
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-14.657200 -29.796300 -1.750000 1.726456e-006 -2.524085e-007 1
rx: 6 2.312500 -5.300000 4.912000
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-14.657200 -29.796300 -1.750000 1.826327e-006 -2.428333e-007 1
rx: 7 2.312500 -5.300000 5.412000
1
-14.657200 -29.796300 -1.750000 1.921218e-006 -2.340593e-007 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 -1.750000 1.987737e-006 -1.969385e-007 1
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1
-14.657200 -29.796300 -1.750000 2.051869e-006 -1.575314e-007 1
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rx: 11 2.312500 -5.300000 7.412000
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rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 -1.750000 2.257814e-006 -1.424525e-007 1
rx: 13 2.312500 -5.300000 8.412000
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-14.657200 -29.796300 -1.750000 2.313704e-006 -1.155238e-007 1
rx: 14 2.312500 -5.300000 8.912000
```

```
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1
-14.657200 -29.796300 -1.750000 2.424289e-006 -9.529705e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 -1.750000 2.457391e-006 -9.650918e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 -1.750000 2.500945e-006 -1.366173e-007 1
rx: 18 2.312500 -5.300000 11.412000
1
-14.657200 -29.796300 -1.750000 2.543513e-006 -7.922860e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-14.657200 -29.796300 -1.750000 2.583877e-006 -1.070403e-007 1
rx: 20 2.312500 -5.300000 13.412000
1
-14.657200 -29.796300 -1.750000 2.595890e-006 -8.680944e-008 1
rx: 21 2.312500 -5.300000 14.412000
1
-14.657200 -29.796300 -1.750000 2.588347e-006 -6.870523e-008 1
rx: 1 0.750000 -3.971875 1.415000
1
-14.657200 -29.796300 -1.750000 9.488519e-007 -2.933606e-007 1
rx: 2 0.750000 -3.971875 2.415000
1
-14.657200 -29.796300 -1.750000 1.208976e-006 -2.740365e-007 1
rx: 3 0.750000 -3.971875 3.415000
1
-14.657200 -29.796300 -1.750000 1.489837e-006 -1.897535e-007 1
rx: 4 0.750000 -3.971875 3.915000
1
-14.657200 -29.796300 -1.750000 1.621331e-006 -1.907639e-007 1
rx: 5 0.750000 -3.971875 4.415000
1
-14.657200 -29.796300 -1.750000 1.721017e-006 -1.350980e-007 1
rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 -1.750000 1.869528e-006 -1.498590e-007 1
rx: 7 0.750000 -3.971875 5.415000
1
-14.657200 -29.796300 -1.750000 1.999651e-006 -1.799633e-007 1
rx: 8 0.750000 -3.971875 5.915000
1
-14.657200 -29.796300 -1.750000 2.115880e-006 -1.452484e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 -1.750000 2.177976e-006 -1.646041e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 -1.750000 2.250433e-006 -1.684844e-007 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 -1.750000 2.353310e-006 -1.517267e-007 1
rx: 12 0.750000 -3.971875 7.915000
```

```
1
-14.657200 -29.796300 -1.750000 2.395370e-006 -1.414977e-007 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 -1.750000 2.463538e-006 -6.165158e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
-14.657200 -29.796300 -1.750000 2.556994e-006 -8.654233e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 -1.750000 2.579742e-006 -5.834192e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 -1.750000 2.641845e-006 -4.558251e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 -1.750000 2.686513e-006 -4.558178e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 -1.750000 2.748601e-006 -4.581735e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 -1.750000 2.754748e-006 -3.085513e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-14.657200 -29.796300 -1.750000 2.768475e-006 -2.503104e-008 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 -1.750000 2.754470e-006 -4.250181e-008 1
```

Horizontal magnetic dipole transmitter at location TX1, Phase 2:

```
hx freq: 8727 area: 1 polar: 0.0 equ: 63.81
84
rx: 1 2.312500 -5.300000 1.412000
1
-14.657200 -29.796300 -1.750000 8.268063e-007 -2.566171e-007 1
rx: 2 2.312500 -5.300000 2.412000
1
-14.657200 -29.796300 -1.750000 1.119975e-006 -2.424944e-007 1
rx: 3 2.312500 -5.300000 3.412000
1
-14.657200 -29.796300 -1.750000 1.514612e-006 -2.631698e-007 1
rx: 4 2.312500 -5.300000 3.912000
1
-14.657200 -29.796300 -1.750000 1.677904e-006 -1.581473e-007 1
rx: 5 2.312500 -5.300000 4.412000
1
-14.657200 -29.796300 -1.750000 1.702475e-006 -2.076915e-007 1
rx: 6 2.312500 -5.300000 4.912000
1
-14.657200 -29.796300 -1.750000 1.879895e-006 -1.518342e-007 1
rx: 7 2.312500 -5.300000 5.412000
1
```

```
-14.657200 -29.796300 -1.750000 1.880760e-006 -1.998587e-007 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 -1.750000 2.038218e-006 -1.389321e-007 1
rx: 9 2.312500 -5.300000 6.412000
1
-14.657200 -29.796300 -1.750000 2.064672e-006 -2.207950e-007 1
rx: 10 2.312500 -5.300000 6.912000
1
-14.657200 -29.796300 -1.750000 2.210172e-006 -2.137966e-007 1
rx: 11 2.312500 -5.300000 7.412000
1
-14.657200 -29.796300 -1.750000 2.178403e-006 -1.770536e-007 1
rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 -1.750000 2.303507e-006 -1.728215e-007 1
rx: 13 2.312500 -5.300000 8.412000
1
-14.657200 -29.796300 -1.750000 2.279343e-006 -1.549804e-007 1
rx: 14 2.312500 -5.300000 8.912000
1
-14.657200 -29.796300 -1.750000 2.390383e-006 -1.602052e-007 1
rx: 15 2.312500 -5.300000 9.412000
1
-14.657200 -29.796300 -1.750000 2.397150e-006 -1.770849e-007 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 -1.750000 2.417127e-006 -1.934714e-007 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 -1.750000 2.423720e-006 -1.573992e-007 1
rx: 18 2.312500 -5.300000 11.412000
1
-14.657200 -29.796300 -1.750000 2.468277e-006 -1.164544e-007 1
rx: 19 2.312500 -5.300000 12.412000
1
-14.657200 -29.796300 -1.750000 2.520185e-006 -1.470269e-007 1
rx: 20 2.312500 -5.300000 13.412000
1
-14.657200 -29.796300 -1.750000 2.546638e-006 -1.498049e-007 1
rx: 21 2.312500 -5.300000 14.412000
1
-14.657200 -29.796300 -1.750000 2.533826e-006 -1.396352e-007 1
rx: 1 4.250000 -2.503125 1.377000
1
-14.657200 -29.796300 -1.750000 4.780985e-007 -2.349354e-007 1
rx: 2 4.250000 -2.503125 2.377000
1
-14.657200 -29.796300 -1.750000 6.223657e-007 -2.095952e-007 1
rx: 3 4.250000 -2.503125 3.377000
1
-14.657200 -29.796300 -1.750000 7.953840e-007 -2.115000e-007 1
rx: 4 4.250000 -2.503125 3.877000
1
-14.657200 -29.796300 -1.750000 8.733380e-007 -2.323306e-007 1
rx: 5 4.250000 -2.503125 4.377000
1
```

```
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rx: 6 4.250000 -2.503125 4.877000
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-14.657200 -29.796300 -1.750000 9.901989e-007 -1.787610e-007 1
rx: 7 4.250000 -2.503125 5.377000
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-14.657200 -29.796300 -1.750000 1.050916e-006 -1.730318e-007 1
rx: 8 4.250000 -2.503125 5.877000
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-14.657200 -29.796300 -1.750000 1.115270e-006 -1.727841e-007 1
rx: 9 4.250000 -2.503125 6.377000
1
-14.657200 -29.796300 -1.750000 1.182926e-006 -1.707510e-007 1
rx: 10 4.250000 -2.503125 6.877000
1
-14.657200 -29.796300 -1.750000 1.243427e-006 -1.675882e-007 1
rx: 11 4.250000 -2.503125 7.377000
1
-14.657200 -29.796300 -1.750000 1.297670e-006 -1.626303e-007 1
rx: 12 4.250000 -2.503125 7.877000
1
-14.657200 -29.796300 -1.750000 1.355695e-006 -1.624461e-007 1
rx: 13 4.250000 -2.503125 8.377000
1
-14.657200 -29.796300 -1.750000 1.413898e-006 -1.851231e-007 1
rx: 14 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 -1.750000 1.462877e-006 -1.995322e-007 1
rx: 15 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 -1.750000 1.496839e-006 -1.755923e-007 1
rx: 16 4.250000 -2.503125 9.877000
1
-14.657200 -29.796300 -1.750000 1.524921e-006 -1.528717e-007 1
rx: 17 4.250000 -2.503125 10.377000
1
-14.657200 -29.796300 -1.750000 1.555801e-006 -1.498822e-007 1
rx: 18 4.250000 -2.503125 11.377000
1
-14.657200 -29.796300 -1.750000 1.623685e-006 -1.518634e-007 1
rx: 19 4.250000 -2.503125 12.377000
1
-14.657200 -29.796300 -1.750000 1.688015e-006 -1.411126e-007 1
rx: 20 4.250000 -2.503125 13.377000
1
-14.657200 -29.796300 -1.750000 1.725991e-006 -1.317256e-007 1
rx: 21 4.250000 -2.503125 14.377000
1
-14.657200 -29.796300 -1.750000 1.768761e-006 -1.274772e-007 1
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 -1.750000 4.492753e-007 -2.469037e-007 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 -1.750000 5.961422e-007 -2.093984e-007 1
rx: 3 2.312500 -0.456250 3.299000
1
```

```
-14.657200 -29.796300 -1.750000 7.452291e-007 -1.991671e-007 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 -1.750000 8.170025e-007 -2.033486e-007 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 -1.750000 9.045593e-007 -2.102399e-007 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 -1.750000 9.667874e-007 -2.015022e-007 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 -1.750000 1.023589e-006 -2.030247e-007 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 -1.750000 1.068573e-006 -1.927340e-007 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 -1.750000 1.132272e-006 -2.000817e-007 1
rx: 10 2.312500 -0.456250 6.799000
1
-14.657200 -29.796300 -1.750000 1.175340e-006 -1.854409e-007 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 -1.750000 1.243016e-006 -2.116962e-007 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 -1.750000 1.288823e-006 -2.168154e-007 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 -1.750000 1.314976e-006 -1.848780e-007 1
rx: 14 2.312500 -0.456250 8.799000
1
-14.657200 -29.796300 -1.750000 1.357987e-006 -1.844378e-007 1
rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 -1.750000 1.398930e-006 -1.800880e-007 1
rx: 16 2.312500 -0.456250 9.799000
1
-14.657200 -29.796300 -1.750000 1.426279e-006 -1.677449e-007 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 -1.750000 1.450075e-006 -1.490898e-007 1
rx: 18 2.312500 -0.456250 11.299000
1
-14.657200 -29.796300 -1.750000 1.509852e-006 -1.384197e-007 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 -1.750000 1.593367e-006 -1.377282e-007 1
rx: 20 2.312500 -0.456250 13.299000
1
-14.657200 -29.796300 -1.750000 1.652658e-006 -1.299309e-007 1
rx: 21 2.312500 -0.456250 14.299000
1
-14.657200 -29.796300 -1.750000 1.687492e-006 -1.185084e-007 1
rx: 1 0.750000 -3.971875 1.415000
1
```

```
-14.657200 -29.796300 -1.750000 7.211635e-007 -3.112880e-007 1
rx: 2 0.750000 -3.971875 2.415000
1
-14.657200 -29.796300 -1.750000 9.970711e-007 -2.791654e-007 1
rx: 3 0.750000 -3.971875 3.415000
1
-14.657200 -29.796300 -1.750000 1.234635e-006 -2.185866e-007 1
rx: 4 0.750000 -3.971875 3.915000
1
-14.657200 -29.796300 -1.750000 1.390582e-006 -2.733754e-007 1
rx: 5 0.750000 -3.971875 4.415000
1
-14.657200 -29.796300 -1.750000 1.470993e-006 -2.201642e-007 1
rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 -1.750000 1.627558e-006 -2.663434e-007 1
rx: 7 0.750000 -3.971875 5.415000
1
-14.657200 -29.796300 -1.750000 1.713852e-006 -1.935324e-007 1
rx: 8 0.750000 -3.971875 5.915000
1
-14.657200 -29.796300 -1.750000 1.830203e-006 -2.143265e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 -1.750000 1.922609e-006 -1.858097e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 -1.750000 2.029906e-006 -1.880809e-007 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 -1.750000 2.110511e-006 -1.654694e-007 1
rx: 12 0.750000 -3.971875 7.915000
1
-14.657200 -29.796300 -1.750000 2.226758e-006 -2.029686e-007 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 -1.750000 2.290667e-006 -1.912085e-007 1
rx: 14 0.750000 -3.971875 8.915000
1
-14.657200 -29.796300 -1.750000 2.373368e-006 -1.935285e-007 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 -1.750000 2.433138e-006 -1.828520e-007 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 -1.750000 2.472823e-006 -1.678552e-007 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 -1.750000 2.507635e-006 -1.541959e-007 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 -1.750000 2.561781e-006 -1.271709e-007 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 -1.750000 2.594327e-006 -1.390614e-007 1
rx: 20 0.750000 -3.971875 13.415000
1
```

```
-14.657200 -29.796300 -1.750000 2.589207e-006 -1.013083e-007 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 -1.750000 2.572867e-006 -9.512678e-008 1
```

Horizontal magnetic dipole transmitter at location TX1, Phase 3 :

```
hx freq: 8727 area: 1 polar: 0.0 equ: 63.81
84
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 -1.750000 5.263966e-007 -1.438617e-007 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 -1.750000 7.027000e-007 -7.527000e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
-14.657200 -29.796300 -1.750000 9.112344e-007 -4.252025e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 -1.750000 9.999146e-007 -2.345570e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 -1.750000 1.090736e-006 -1.347803e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 -1.750000 1.152760e-006 5.256516e-009 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 -1.750000 1.216467e-006 2.035135e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 -1.750000 1.287341e-006 3.956078e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 -1.750000 1.343267e-006 7.725133e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-14.657200 -29.796300 -1.750000 1.425227e-006 7.397726e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 -1.750000 1.501514e-006 8.051267e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 -1.750000 1.538683e-006 1.121322e-007 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 -1.750000 1.590351e-006 1.272882e-007 1
rx: 14 2.312500 -0.456250 8.799000
1
-14.657200 -29.796300 -1.750000 1.644298e-006 1.468696e-007 1
rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 -1.750000 1.677694e-006 1.646955e-007 1
rx: 16 2.312500 -0.456250 9.799000
1
```

```
-14.657200 -29.796300 -1.750000 1.704443e-006 1.998283e-007 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 -1.750000 1.721002e-006 2.328515e-007 1
rx: 18 2.312500 -0.456250 11.299000
1
-14.657200 -29.796300 -1.750000 1.794576e-006 2.529605e-007 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 -1.750000 1.914228e-006 2.642746e-007 1
rx: 20 2.312500 -0.456250 13.299000
1
-14.657200 -29.796300 -1.750000 1.965037e-006 2.957728e-007 1
rx: 21 2.312500 -0.456250 14.299000
1
-14.657200 -29.796300 -1.750000 2.006544e-006 3.291121e-007 1
rx: 1 0.750000 -3.971875 1.415000
1
-14.657200 -29.796300 -1.750000 8.359270e-007 -1.644439e-007 1
rx: 2 0.750000 -3.971875 2.415000
1
-14.657200 -29.796300 -1.750000 1.151000e-006 -8.822000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-14.657200 -29.796300 -1.750000 1.510511e-006 -1.507749e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-14.657200 -29.796300 -1.750000 1.663385e-006 1.695651e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-14.657200 -29.796300 -1.750000 1.822280e-006 7.110222e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 -1.750000 1.981329e-006 9.209744e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-14.657200 -29.796300 -1.750000 2.126198e-006 1.340852e-007 1
rx: 8 0.750000 -3.971875 5.915000
1
-14.657200 -29.796300 -1.750000 2.232737e-006 1.875798e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 -1.750000 2.374177e-006 1.864065e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 -1.750000 2.463928e-006 2.593133e-007 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 -1.750000 2.589836e-006 2.719495e-007 1
rx: 12 0.750000 -3.971875 7.915000
1
-14.657200 -29.796300 -1.750000 2.645412e-006 3.323478e-007 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 -1.750000 2.733730e-006 3.426603e-007 1
rx: 14 0.750000 -3.971875 8.915000
1
```

```
-14.657200 -29.796300 -1.750000 2.816877e-006 3.487081e-007 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 -1.750000 2.900433e-006 3.702942e-007 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 -1.750000 2.950430e-006 3.942504e-007 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 -1.750000 3.003150e-006 3.870305e-007 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 -1.750000 3.079034e-006 4.303213e-007 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 -1.750000 3.105031e-006 4.643154e-007 1
rx: 20 0.750000 -3.971875 13.415000
1
-14.657200 -29.796300 -1.750000 3.105474e-006 4.835926e-007 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 -1.750000 3.070262e-006 4.911715e-007 1
rx: 1 4.250000 -2.503125 1.377000
1
-14.657200 -29.796300 -1.750000 5.487468e-007 -1.294952e-007 1
rx: 2 4.250000 -2.503125 2.377000
1
-14.657200 -29.796300 -1.750000 7.767000e-007 -7.750000e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-14.657200 -29.796300 -1.750000 9.841438e-007 -2.836009e-008 1
rx: 4 4.250000 -2.503125 3.877000
1
-14.657200 -29.796300 -1.750000 1.073270e-006 1.166865e-008 1
rx: 5 4.250000 -2.503125 4.377000
1
-14.657200 -29.796300 -1.750000 1.143613e-006 5.301235e-008 1
rx: 6 4.250000 -2.503125 4.877000
1
-14.657200 -29.796300 -1.750000 1.216862e-006 5.959804e-008 1
rx: 7 4.250000 -2.503125 5.377000
1
-14.657200 -29.796300 -1.750000 1.310455e-006 5.832535e-008 1
rx: 8 4.250000 -2.503125 5.877000
1
-14.657200 -29.796300 -1.750000 1.398097e-006 9.749581e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-14.657200 -29.796300 -1.750000 1.478990e-006 1.186832e-007 1
rx: 10 4.250000 -2.503125 6.877000
1
-14.657200 -29.796300 -1.750000 1.562419e-006 1.450350e-007 1
rx: 11 4.250000 -2.503125 7.377000
1
-14.657200 -29.796300 -1.750000 1.595089e-006 1.851604e-007 1
rx: 12 4.250000 -2.503125 7.877000
1
```

```
-14.657200 -29.796300 -1.750000 1.673252e-006 2.134903e-007 1
rx: 13 4.250000 -2.503125 8.377000
1
-14.657200 -29.796300 -1.750000 1.707925e-006 2.537200e-007 1
rx: 14 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 -1.750000 1.779230e-006 2.495430e-007 1
rx: 15 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 -1.750000 1.819905e-006 2.737681e-007 1
rx: 16 4.250000 -2.503125 9.877000
1
-14.657200 -29.796300 -1.750000 1.850887e-006 3.039516e-007 1
rx: 17 4.250000 -2.503125 10.377000
1
-14.657200 -29.796300 -1.750000 1.901430e-006 3.195410e-007 1
rx: 18 4.250000 -2.503125 11.377000
1
-14.657200 -29.796300 -1.750000 1.959717e-006 3.407793e-007 1
rx: 19 4.250000 -2.503125 12.377000
1
-14.657200 -29.796300 -1.750000 2.063680e-006 3.741406e-007 1
rx: 20 4.250000 -2.503125 13.377000
1
-14.657200 -29.796300 -1.750000 2.130066e-006 3.786314e-007 1
rx: 21 4.250000 -2.503125 14.377000
1
-14.657200 -29.796300 -1.750000 2.195008e-006 4.002621e-007 1
rx: 1 2.312500 -5.300000 1.412000
1
-14.657200 -29.796300 -1.750000 8.870130e-007 -1.751106e-007 1
rx: 2 2.312500 -5.300000 2.412000
1
-14.657200 -29.796300 -1.750000 1.197000e-006 -8.938000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-14.657200 -29.796300 -1.750000 1.482747e-006 -3.115576e-008 1
rx: 4 2.312500 -5.300000 3.912000
1
-14.657200 -29.796300 -1.750000 1.594933e-006 1.859728e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-14.657200 -29.796300 -1.750000 1.738518e-006 5.872142e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-14.657200 -29.796300 -1.750000 1.848321e-006 7.516520e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-14.657200 -29.796300 -1.750000 1.976421e-006 5.704987e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 -1.750000 2.016410e-006 9.867018e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-14.657200 -29.796300 -1.750000 2.174054e-006 1.335105e-007 1
rx: 10 2.312500 -5.300000 6.912000
1
```

```
-14.657200 -29.796300 -1.750000 2.266219e-006 1.500752e-007 1
rx: 11 2.312500 -5.300000 7.412000
1
-14.657200 -29.796300 -1.750000 2.343095e-006 1.622088e-007 1
rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 -1.750000 2.396899e-006 1.723147e-007 1
rx: 13 2.312500 -5.300000 8.412000
1
-14.657200 -29.796300 -1.750000 2.514597e-006 1.420849e-007 1
rx: 14 2.312500 -5.300000 8.912000
1
-14.657200 -29.796300 -1.750000 2.602284e-006 1.394016e-007 1
rx: 15 2.312500 -5.300000 9.412000
1
-14.657200 -29.796300 -1.750000 2.625803e-006 1.707220e-007 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 -1.750000 2.676093e-006 1.958264e-007 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 -1.750000 2.724403e-006 2.147557e-007 1
rx: 18 2.312500 -5.300000 11.412000
1
-14.657200 -29.796300 -1.750000 2.805639e-006 2.220147e-007 1
rx: 19 2.312500 -5.300000 12.412000
1
-14.657200 -29.796300 -1.750000 2.826044e-006 2.363180e-007 1
rx: 20 2.312500 -5.300000 13.412000
1
-14.657200 -29.796300 -1.750000 2.850507e-006 2.410584e-007 1
rx: 21 2.312500 -5.300000 14.412000
1
-14.657200 -29.796300 -1.750000 2.853869e-006 2.530548e-007 1
```

Horizontal magnetic dipole transmitter at location TX2, Phase 1:

```
hx freq: 8727 area: 1 polar: 0.0 equ: 30.7
78
rx: 1 0.750000 -3.971875 1.415000
1
-24.608100 -14.612200 -1.750000 1.297433e-006 -3.261604e-008 1
rx: 2 0.750000 -3.971875 2.415000
1
-24.608100 -14.612200 -1.750000 1.639000e-006 -9.925000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-24.608100 -14.612200 -1.750000 1.976669e-006 -8.141227e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 -1.750000 2.112799e-006 -7.334324e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-24.608100 -14.612200 -1.750000 2.267132e-006 -6.707417e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
```

```
-24.608100 -14.612200 -1.750000 2.400634e-006 -1.886618e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 -1.750000 2.517492e-006 -6.101866e-009 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 -1.750000 2.628603e-006 -2.149778e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-24.608100 -14.612200 -1.750000 2.738510e-006 -1.383264e-008 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 -1.750000 2.828988e-006 -1.814953e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 -1.750000 2.911211e-006 -3.424868e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 -1.750000 2.965835e-006 -2.510011e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 -1.750000 3.004959e-006 3.352070e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 -1.750000 3.049350e-006 6.374421e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 -1.750000 3.126432e-006 6.836176e-008 1
rx: 16 0.750000 -3.971875 10.415000
1
-24.608100 -14.612200 -1.750000 3.163290e-006 6.021523e-008 1
rx: 17 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 -1.750000 3.230848e-006 -5.325545e-009 1
rx: 18 0.750000 -3.971875 12.415000
1
-24.608100 -14.612200 -1.750000 3.255206e-006 7.980300e-008 1
rx: 19 0.750000 -3.971875 13.415000
1
-24.608100 -14.612200 -1.750000 3.244211e-006 8.405588e-008 1
rx: 20 0.750000 -3.971875 14.415000
1
-24.608100 -14.612200 -1.750000 3.192863e-006 8.198770e-008 1
rx: 1 4.250000 -2.503125 1.377000
1
-24.608100 -14.612200 -1.750000 7.279906e-007 -3.398094e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-24.608100 -14.612200 -1.750000 9.795000e-007 -8.374000e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-24.608100 -14.612200 -1.750000 1.156870e-006 -9.201359e-008 1
rx: 4 4.250000 -2.503125 3.877000
1
-24.608100 -14.612200 -1.750000 1.221137e-006 -6.835955e-008 1
rx: 5 4.250000 -2.503125 4.377000
1
```

```
-24.608100 -14.612200 -1.750000 1.260209e-006 -3.572189e-008 1
rx: 6 4.250000 -2.503125 4.877000
1
-24.608100 -14.612200 -1.750000 1.360565e-006 -3.449937e-008 1
rx: 7 4.250000 -2.503125 5.377000
1
-24.608100 -14.612200 -1.750000 1.463596e-006 -5.812727e-008 1
rx: 8 4.250000 -2.503125 5.877000
1
-24.608100 -14.612200 -1.750000 1.532216e-006 -6.937393e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-24.608100 -14.612200 -1.750000 1.583256e-006 -5.066973e-008 1
rx: 10 4.250000 -2.503125 6.877000
1
-24.608100 -14.612200 -1.750000 1.657569e-006 -8.628601e-008 1
rx: 11 4.250000 -2.503125 7.377000
1
-24.608100 -14.612200 -1.750000 1.708555e-006 -1.039118e-007 1
rx: 12 4.250000 -2.503125 7.877000
1
-24.608100 -14.612200 -1.750000 1.762043e-006 -9.134115e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
-24.608100 -14.612200 -1.750000 1.803403e-006 -8.879304e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 -1.750000 1.843770e-006 -9.618430e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 -1.750000 1.879316e-006 -1.096646e-007 1
rx: 16 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 -1.750000 1.909421e-006 -1.086070e-007 1
rx: 17 4.250000 -2.503125 10.377000
1
-24.608100 -14.612200 -1.750000 1.928579e-006 -8.567580e-008 1
rx: 18 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 -1.750000 1.999853e-006 -1.056645e-007 1
rx: 19 4.250000 -2.503125 12.377000
1
-24.608100 -14.612200 -1.750000 2.041943e-006 -9.568055e-008 1
rx: 20 4.250000 -2.503125 14.377000
1
-24.608100 -14.612200 -1.750000 2.088109e-006 -9.503079e-008 1
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 -1.750000 1.089927e-006 -4.826132e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-24.608100 -14.612200 -1.750000 1.425000e-006 -9.474000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-24.608100 -14.612200 -1.750000 1.749320e-006 -1.237679e-007 1
rx: 4 2.312500 -5.300000 3.912000
1
```

```
-24.608100 -14.612200 -1.750000 1.706573e-006 -6.931847e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 -1.750000 1.834666e-006 -8.587470e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 -1.750000 1.933575e-006 -8.896821e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 -1.750000 2.029535e-006 -9.933795e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 -1.750000 2.108070e-006 -9.307334e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-24.608100 -14.612200 -1.750000 2.170994e-006 -5.483785e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 -1.750000 2.247751e-006 -7.575430e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 -1.750000 2.328196e-006 -1.156632e-007 1
rx: 12 2.312500 -5.300000 7.912000
1
-24.608100 -14.612200 -1.750000 2.379384e-006 -1.101745e-007 1
rx: 13 2.312500 -5.300000 8.412000
1
-24.608100 -14.612200 -1.750000 2.709451e-006 -9.419810e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-24.608100 -14.612200 -1.750000 2.771680e-006 -1.093917e-007 1
rx: 15 2.312500 -5.300000 9.412000
1
-24.608100 -14.612200 -1.750000 2.526747e-006 -6.116726e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-24.608100 -14.612200 -1.750000 2.557878e-006 -6.228805e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-24.608100 -14.612200 -1.750000 2.859361e-006 -8.157398e-008 1
rx: 18 2.312500 -5.300000 11.412000
1
-24.608100 -14.612200 -1.750000 2.637705e-006 -5.538841e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-24.608100 -14.612200 -1.750000 2.705567e-006 -9.315470e-008 1
rx: 20 2.312500 -5.300000 13.412000
1
-24.608100 -14.612200 -1.750000 2.730208e-006 -9.649774e-008 1
rx: 1 2.312500 -0.456250 1.299000
1
-24.608100 -14.612200 -1.750000 8.302808e-007 -4.179509e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-24.608100 -14.612200 -1.750000 1.079000e-006 -8.685000e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
```

```
-24.608100 -14.612200 -1.750000 1.317192e-006 -1.032838e-007 1
rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 -1.750000 1.395943e-006 -1.013070e-007 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 -1.750000 1.467637e-006 -8.232215e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 -1.750000 1.513999e-006 -4.073161e-008 1
rx: 7 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 -1.750000 1.657659e-006 -4.468532e-008 1
rx: 8 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 -1.750000 1.726656e-006 -4.472329e-008 1
rx: 9 2.312500 -0.456250 6.799000
1
-24.608100 -14.612200 -1.750000 1.768305e-006 -3.036933e-008 1
rx: 10 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 -1.750000 1.815988e-006 -2.934848e-008 1
rx: 11 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 -1.750000 1.885852e-006 -5.823634e-008 1
rx: 12 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 -1.750000 1.953061e-006 -2.809102e-008 1
rx: 13 2.312500 -0.456250 9.299000
1
-24.608100 -14.612200 -1.750000 2.000040e-006 -2.104503e-008 1
rx: 14 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 -1.750000 2.022554e-006 -1.379421e-008 1
rx: 15 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 -1.750000 2.056259e-006 -1.286883e-008 1
rx: 16 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 -1.750000 2.129334e-006 -1.553514e-008 1
rx: 17 2.312500 -0.456250 12.299000
1
-24.608100 -14.612200 -1.750000 2.214771e-006 -1.216884e-008 1
rx: 18 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 -1.750000 2.286170e-006 -2.523428e-008 1
```

Horizontal magnetic dipole transmitter at location TX2, Phase 2 :

```
hx freq: 8727 area: 1 polar: 0.0 equ: 30.7
82
rx: 1 0.750000 -3.971875 1.415000
1
-24.608100 -14.612200 -1.750000 1.215039e-006 -4.990353e-008 1
rx: 2 0.750000 -3.971875 2.415000
1
```

```
-24.608100 -14.612200 -1.750000 1.639000e-006 -9.925000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-24.608100 -14.612200 -1.750000 1.992489e-006 -5.474378e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 -1.750000 2.126936e-006 -4.790025e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-24.608100 -14.612200 -1.750000 2.291691e-006 -2.980762e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-24.608100 -14.612200 -1.750000 2.456287e-006 -4.082584e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 -1.750000 2.598458e-006 -6.882469e-008 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 -1.750000 2.722547e-006 -3.346598e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-24.608100 -14.612200 -1.750000 2.874838e-006 -1.098080e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 -1.750000 2.932372e-006 -5.089245e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 -1.750000 3.063473e-006 -1.068761e-007 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 -1.750000 3.142997e-006 -9.206218e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 -1.750000 3.237659e-006 -1.179361e-007 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 -1.750000 3.316798e-006 -1.269334e-007 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 -1.750000 3.336328e-006 -1.031716e-007 1
rx: 16 0.750000 -3.971875 9.915000
1
-24.608100 -14.612200 -1.750000 3.396439e-006 -9.758647e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
-24.608100 -14.612200 -1.750000 3.402013e-006 -8.205842e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 -1.750000 3.456727e-006 -1.000684e-007 1
rx: 19 0.750000 -3.971875 12.415000
1
-24.608100 -14.612200 -1.750000 3.454824e-006 -9.758134e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-24.608100 -14.612200 -1.750000 3.451438e-006 -1.076687e-007 1
rx: 21 0.750000 -3.971875 14.415000
1
```

```
-24.608100 -14.612200 -1.750000 3.397558e-006 -9.804192e-008 1
rx: 1 2.312500 -0.456250 1.299000
1
-24.608100 -14.612200 -1.750000 7.936076e-007 -1.612749e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-24.608100 -14.612200 -1.750000 1.079000e-006 -8.685000e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
-24.608100 -14.612200 -1.750000 1.315355e-006 -8.310106e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 -1.750000 1.399085e-006 -4.950450e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 -1.750000 1.445057e-006 -8.734882e-009 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 -1.750000 1.516568e-006 1.436768e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
-24.608100 -14.612200 -1.750000 1.588308e-006 6.077310e-009 1
rx: 8 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 -1.750000 1.675033e-006 -2.176013e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 -1.750000 1.751061e-006 -4.356281e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-24.608100 -14.612200 -1.750000 1.808611e-006 -4.857937e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 -1.750000 1.852075e-006 -4.886157e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 -1.750000 1.903589e-006 -5.610535e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-24.608100 -14.612200 -1.750000 1.928111e-006 4.441499e-009 1
rx: 14 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 -1.750000 1.968131e-006 2.271505e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
-24.608100 -14.612200 -1.750000 2.006614e-006 2.243450e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 -1.750000 2.051859e-006 3.600046e-010 1
rx: 17 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 -1.750000 2.093281e-006 -3.001527e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 -1.750000 2.150567e-006 1.224985e-008 1
rx: 19 2.312500 -0.456250 12.299000
1
```

```
-24.608100 -14.612200 -1.750000 2.243590e-006 -3.235306e-009 1
rx: 20 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 -1.750000 2.309509e-006 -1.457608e-008 1
rx: 21 2.312500 -0.456250 14.299000
1
-24.608100 -14.612200 -1.750000 2.337344e-006 -5.434857e-009 1
rx: 1 4.250000 -2.503125 1.377000
1
-24.608100 -14.612200 -1.750000 7.545399e-007 -9.852983e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-24.608100 -14.612200 -1.750000 9.795000e-007 -8.374000e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-24.608100 -14.612200 -1.750000 1.206739e-006 -1.446705e-007 1
rx: 4 4.250000 -2.503125 3.877000
1
-24.608100 -14.612200 -1.750000 1.272553e-006 -1.514208e-007 1
rx: 5 4.250000 -2.503125 4.377000
1
-24.608100 -14.612200 -1.750000 1.384350e-006 -1.434549e-007 1
rx: 6 4.250000 -2.503125 4.877000
1
-24.608100 -14.612200 -1.750000 1.507291e-006 -1.974518e-007 1
rx: 7 4.250000 -2.503125 5.377000
1
-24.608100 -14.612200 -1.750000 1.589712e-006 -1.955466e-007 1
rx: 8 4.250000 -2.503125 5.877000
1
-24.608100 -14.612200 -1.750000 1.637271e-006 -1.689525e-007 1
rx: 9 4.250000 -2.503125 6.377000
1
-24.608100 -14.612200 -1.750000 1.708206e-006 -1.588058e-007 1
rx: 10 4.250000 -2.503125 6.877000
1
-24.608100 -14.612200 -1.750000 1.790223e-006 -1.877896e-007 1
rx: 11 4.250000 -2.503125 7.377000
1
-24.608100 -14.612200 -1.750000 1.826256e-006 -1.738167e-007 1
rx: 12 4.250000 -2.503125 7.877000
1
-24.608100 -14.612200 -1.750000 1.908762e-006 -2.040735e-007 1
rx: 13 4.250000 -2.503125 8.377000
1
-24.608100 -14.612200 -1.750000 1.934707e-006 -1.387106e-007 1
rx: 14 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 -1.750000 1.970706e-006 -1.332723e-007 1
rx: 15 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 -1.750000 2.020626e-006 -1.503720e-007 1
rx: 16 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 -1.750000 2.072389e-006 -1.731751e-007 1
rx: 17 4.250000 -2.503125 10.377000
1
```

```
-24.608100 -14.612200 -1.750000 2.095428e-006 -1.725084e-007 1
rx: 18 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 -1.750000 2.172422e-006 -1.792322e-007 1
rx: 19 4.250000 -2.503125 12.377000
1
-24.608100 -14.612200 -1.750000 2.230723e-006 -1.605875e-007 1
rx: 20 4.250000 -2.503125 13.377000
1
-24.608100 -14.612200 -1.750000 2.273525e-006 -1.937756e-007 1
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 -1.750000 1.098962e-006 -6.338385e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-24.608100 -14.612200 -1.750000 1.425000e-006 -9.474000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-24.608100 -14.612200 -1.750000 1.722022e-006 -1.127792e-007 1
rx: 4 2.312500 -5.300000 3.912000
1
-24.608100 -14.612200 -1.750000 1.824433e-006 -9.222564e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 -1.750000 1.991234e-006 -1.604120e-007 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 -1.750000 2.115318e-006 -1.536846e-007 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 -1.750000 2.234135e-006 -1.947101e-007 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 -1.750000 2.283330e-006 -1.052545e-007 1
rx: 9 2.312500 -5.300000 6.412000
1
-24.608100 -14.612200 -1.750000 2.413593e-006 -1.805408e-007 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 -1.750000 2.516506e-006 -2.243451e-007 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 -1.750000 2.532803e-006 -1.497862e-007 1
rx: 12 2.312500 -5.300000 7.912000
1
-24.608100 -14.612200 -1.750000 2.595918e-006 -1.679459e-007 1
rx: 13 2.312500 -5.300000 8.412000
1
-24.608100 -14.612200 -1.750000 2.645279e-006 -1.215197e-007 1
rx: 14 2.312500 -5.300000 8.912000
1
-24.608100 -14.612200 -1.750000 2.712465e-006 -1.258197e-007 1
rx: 15 2.312500 -5.300000 9.412000
1
-24.608100 -14.612200 -1.750000 2.776361e-006 -1.462970e-007 1
rx: 16 2.312500 -5.300000 9.912000
1
```

```
-24.608100 -14.612200 -1.750000 2.819199e-006 -1.338648e-007 1
rx: 17 2.312500 -5.300000 10.412000
1
-24.608100 -14.612200 -1.750000 2.849142e-006 -1.391937e-007 1
rx: 18 2.312500 -5.300000 11.412000
1
-24.608100 -14.612200 -1.750000 2.905031e-006 -1.318267e-007 1
rx: 19 2.312500 -5.300000 12.412000
1
-24.608100 -14.612200 -1.750000 2.952209e-006 -1.350805e-007 1
rx: 20 2.312500 -5.300000 13.412000
1
-24.608100 -14.612200 -1.750000 2.979131e-006 -1.350701e-007 1
```

Horizontal magnetic dipole transmitter at location TX2, Phase 3:

```
hx freq: 8727 area: 1 dip: 0.0  strike: 30.7
84
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 -1.750000 1.048367e-006 -8.704463e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-24.608100 -14.612200 -1.750000 1.425000e-006 -9.474000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
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rx: 4 2.312500 -5.300000 3.912000
1
-24.608100 -14.612200 -1.750000 1.922108e-006 -1.384748e-007 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 -1.750000 2.032640e-006 -1.054972e-007 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 -1.750000 2.141469e-006 -7.406700e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 -1.750000 2.246484e-006 -4.145467e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 -1.750000 2.335236e-006 -2.966096e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-24.608100 -14.612200 -1.750000 2.452220e-006 -4.034722e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 -1.750000 2.564620e-006 -3.593897e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 -1.750000 2.651172e-006 -4.474789e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
-24.608100 -14.612200 -1.750000 2.733628e-006 -4.954105e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
```

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-24.608100 -14.612200 -1.750000 2.897165e-006 -7.577461e-008 1
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1
-24.608100 -14.612200 -1.750000 2.966237e-006 -1.028088e-007 1
rx: 16 2.312500 -5.300000 9.912000
1
-24.608100 -14.612200 -1.750000 2.996104e-006 -8.163472e-008 1
rx: 17 2.312500 -5.300000 10.412000
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-24.608100 -14.612200 -1.750000 3.067232e-006 -6.891283e-008 1
rx: 18 2.312500 -5.300000 11.412000
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-24.608100 -14.612200 -1.750000 3.132492e-006 -1.080428e-007 1
rx: 19 2.312500 -5.300000 12.412000
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rx: 21 2.312500 -5.300000 14.412000
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rx: 4 4.250000 -2.503125 3.877000
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rx: 5 4.250000 -2.503125 4.377000
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rx: 8 4.250000 -2.503125 5.877000
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-24.608100 -14.612200 -1.750000 1.747929e-006 -1.223922e-007 1
rx: 9 4.250000 -2.503125 6.377000
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-24.608100 -14.612200 -1.750000 1.843226e-006 -1.366467e-007 1
rx: 10 4.250000 -2.503125 6.877000
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-24.608100 -14.612200 -1.750000 1.924327e-006 -1.160032e-007 1
rx: 11 4.250000 -2.503125 7.377000
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rx: 12 4.250000 -2.503125 7.877000
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-24.608100 -14.612200 -1.750000 2.062876e-006 -8.437511e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
-24.608100 -14.612200 -1.750000 2.105616e-006 -7.374767e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 -1.750000 2.156291e-006 -7.898392e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 -1.750000 2.213865e-006 -7.851206e-008 1
rx: 16 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 -1.750000 2.266720e-006 -1.036704e-007 1
rx: 17 4.250000 -2.503125 10.377000
1
-24.608100 -14.612200 -1.750000 2.345268e-006 -1.430577e-007 1
rx: 18 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 -1.750000 2.385510e-006 -1.245794e-007 1
rx: 19 4.250000 -2.503125 12.377000
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-24.608100 -14.612200 -1.750000 2.486970e-006 -9.206832e-008 1
rx: 20 4.250000 -2.503125 13.377000
1
-24.608100 -14.612200 -1.750000 2.559135e-006 -1.166434e-007 1
rx: 21 4.250000 -2.503125 14.377000
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rx: 2 0.750000 -3.971875 2.415000
1
-24.608100 -14.612200 -1.750000 1.639000e-006 -9.925000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-24.608100 -14.612200 -1.750000 2.098857e-006 -1.566360e-007 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 -1.750000 2.299151e-006 -2.029852e-007 1
rx: 5 0.750000 -3.971875 4.415000
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rx: 6 0.750000 -3.971875 4.915000
1
-24.608100 -14.612200 -1.750000 2.628419e-006 -1.654786e-007 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 -1.750000 2.770270e-006 -1.639027e-007 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 -1.750000 2.916186e-006 -1.783291e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
```

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-24.608100 -14.612200 -1.750000 3.060108e-006 -2.126547e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 -1.750000 3.183061e-006 -2.243445e-007 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 -1.750000 3.284300e-006 -1.899974e-007 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 -1.750000 3.379272e-006 -1.910394e-007 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 -1.750000 3.460360e-006 -2.003399e-007 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 -1.750000 3.529194e-006 -1.762110e-007 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 -1.750000 3.609505e-006 -1.745477e-007 1
rx: 16 0.750000 -3.971875 9.915000
1
-24.608100 -14.612200 -1.750000 3.645367e-006 -1.457360e-007 1
rx: 17 0.750000 -3.971875 10.415000
1
-24.608100 -14.612200 -1.750000 3.682967e-006 -1.463011e-007 1
rx: 18 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 -1.750000 3.761613e-006 -1.546756e-007 1
rx: 19 0.750000 -3.971875 12.415000
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-24.608100 -14.612200 -1.750000 3.753125e-006 -1.595361e-007 1
rx: 20 0.750000 -3.971875 13.415000
1
-24.608100 -14.612200 -1.750000 3.779932e-006 -1.752409e-007 1
rx: 21 0.750000 -3.971875 14.415000
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-24.608100 -14.612200 -1.750000 3.719551e-006 -1.651329e-007 1
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1
-24.608100 -14.612200 -1.750000 8.537087e-007 -1.201036e-007 1
rx: 2 2.312500 -0.456250 2.299000
1
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rx: 3 2.312500 -0.456250 3.299000
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rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 -1.750000 1.422557e-006 -6.591455e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 -1.750000 1.535001e-006 -8.992575e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 -1.750000 1.614135e-006 -9.512786e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
```

```
-24.608100 -14.612200 -1.750000 1.679047e-006 -9.742956e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 -1.750000 1.767577e-006 -1.284053e-007 1
rx: 9 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 -1.750000 1.864865e-006 -1.139811e-007 1
rx: 10 2.312500 -0.456250 6.799000
1
-24.608100 -14.612200 -1.750000 1.954193e-006 -1.135748e-007 1
rx: 11 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 -1.750000 2.017317e-006 -1.101956e-007 1
rx: 12 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 -1.750000 2.061473e-006 -7.075856e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-24.608100 -14.612200 -1.750000 2.123793e-006 -7.468663e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 -1.750000 2.189949e-006 -8.088585e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
-24.608100 -14.612200 -1.750000 2.245406e-006 -1.140637e-007 1
rx: 16 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 -1.750000 2.278484e-006 -9.670943e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 -1.750000 2.314386e-006 -8.692879e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 -1.750000 2.406047e-006 -1.171246e-007 1
rx: 19 2.312500 -0.456250 12.299000
1
-24.608100 -14.612200 -1.750000 2.525583e-006 -1.177214e-007 1
rx: 20 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 -1.750000 2.616833e-006 -1.465785e-007 1
rx: 21 2.312500 -0.456250 14.299000
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-24.608100 -14.612200 -1.750000 2.646253e-006 -1.418187e-007 1
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Vertical magnetic dipole transmitter at location TX1, Phase 1:

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hz freq: 8727 area: 1
76
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 0.000000 -2.011482e-006 -3.620173e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 0.000000 -1.978969e-006 -4.040115e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
```

```
-14.657200 -29.796300 0.000000 -1.927908e-006 -4.452517e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 0.000000 -1.894029e-006 -3.527521e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 0.000000 -1.857901e-006 -3.441958e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 0.000000 -1.820116e-006 -3.327394e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 0.000000 -1.788160e-006 -3.939287e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 0.000000 -1.751824e-006 -4.571082e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 0.000000 -1.710899e-006 -3.663923e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-14.657200 -29.796300 0.000000 -1.676486e-006 -5.405853e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 0.000000 -1.634877e-006 -5.711165e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 0.000000 -1.595372e-006 -5.231810e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 0.000000 -1.543162e-006 -5.353029e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
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rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 0.000000 -1.448556e-006 -4.450863e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
-14.657200 -29.796300 0.000000 -1.400737e-006 -4.631065e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 0.000000 -1.352512e-006 -5.580497e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-14.657200 -29.796300 0.000000 -1.226606e-006 -3.305611e-008 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 0.000000 -1.119691e-006 -4.270138e-008 1
rx: 20 2.312500 -0.456250 13.299000
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rx: 21 2.312500 -0.456250 14.299000
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rx: 1 4.250000 -2.503125 5.877000
1
```

```
-14.657200 -29.796300 0.000000 -1.906123e-006 -7.284172e-008 1
rx: 2 4.250000 -2.503125 6.377000
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rx: 3 4.250000 -2.503125 6.877000
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-14.657200 -29.796300 0.000000 -1.841000e-006 -9.111749e-008 1
rx: 4 4.250000 -2.503125 7.377000
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-14.657200 -29.796300 0.000000 -1.782156e-006 -9.435690e-008 1
rx: 5 4.250000 -2.503125 7.877000
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rx: 6 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 0.000000 -1.619453e-006 -8.031241e-008 1
rx: 7 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 0.000000 -1.544687e-006 -8.261655e-008 1
rx: 8 4.250000 -2.503125 9.877000
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-14.657200 -29.796300 0.000000 -1.495032e-006 -8.766743e-008 1
rx: 9 4.250000 -2.503125 10.377000
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-14.657200 -29.796300 0.000000 -1.449783e-006 -8.410956e-008 1
rx: 10 4.250000 -2.503125 11.377000
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rx: 11 4.250000 -2.503125 12.377000
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rx: 12 4.250000 -2.503125 13.377000
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rx: 13 4.250000 -2.503125 14.377000
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rx: 2 2.312500 -5.300000 2.412000
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-14.657200 -29.796300 0.000000 -2.896505e-006 -5.053479e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-14.657200 -29.796300 0.000000 -2.797423e-006 -7.908871e-008 1
rx: 4 2.312500 -5.300000 3.912000
1
-14.657200 -29.796300 0.000000 -2.736845e-006 -8.184541e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-14.657200 -29.796300 0.000000 -2.659494e-006 -6.741518e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-14.657200 -29.796300 0.000000 -2.592483e-006 -6.596375e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
```

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-14.657200 -29.796300 0.000000 -2.519072e-006 -5.939895e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 0.000000 -2.455608e-006 -7.125900e-008 1
rx: 9 2.312500 -5.300000 6.412000
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rx: 10 2.312500 -5.300000 6.912000
1
-14.657200 -29.796300 0.000000 -2.303460e-006 -4.440985e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-14.657200 -29.796300 0.000000 -2.205583e-006 -4.184197e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 0.000000 -2.121619e-006 -5.332232e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
-14.657200 -29.796300 0.000000 -2.036873e-006 -5.089235e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-14.657200 -29.796300 0.000000 -1.941257e-006 -4.945984e-008 1
rx: 15 2.312500 -5.300000 9.412000
1
-14.657200 -29.796300 0.000000 -1.845062e-006 -5.340285e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 0.000000 -1.756019e-006 -7.132418e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 0.000000 -1.661177e-006 -2.337628e-008 1
rx: 18 2.312500 -5.300000 11.412000
1
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rx: 19 2.312500 -5.300000 12.412000
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rx: 20 2.312500 -5.300000 13.412000
1
-14.657200 -29.796300 0.000000 -1.084965e-006 -8.737991e-008 1
rx: 21 2.312500 -5.300000 14.412000
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-14.657200 -29.796300 0.000000 -9.154637e-007 -8.277062e-008 1
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rx: 2 0.750000 -3.971875 2.415000
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rx: 3 0.750000 -3.971875 3.415000
1
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rx: 4 0.750000 -3.971875 3.915000
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-14.657200 -29.796300 0.000000 -2.933671e-006 1.811869e-007 1
rx: 5 0.750000 -3.971875 4.415000
1
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rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 0.000000 -2.782877e-006 1.608090e-007 1
rx: 7 0.750000 -3.971875 5.415000
1
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rx: 8 0.750000 -3.971875 5.915000
1
-14.657200 -29.796300 0.000000 -2.592896e-006 1.443714e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 0.000000 -2.452372e-006 1.340348e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 0.000000 -2.321677e-006 8.501806e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 0.000000 -2.210609e-006 9.202133e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-14.657200 -29.796300 0.000000 -2.106092e-006 6.196611e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 0.000000 -1.986814e-006 6.738327e-009 1
rx: 14 0.750000 -3.971875 8.915000
1
-14.657200 -29.796300 0.000000 -1.855872e-006 4.558358e-009 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 0.000000 -1.752765e-006 -2.457803e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 0.000000 -1.626195e-006 -5.435705e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 0.000000 -1.513696e-006 -5.630272e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 0.000000 -1.279966e-006 -7.781719e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 0.000000 -1.082854e-006 -8.827811e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-14.657200 -29.796300 0.000000 -8.552462e-007 -1.023435e-007 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 0.000000 -6.495317e-007 -9.986825e-008 1
```

Vertical magnetic dipole transmitter at location TX1, Phase 2:

```
hz freq: 8727 area: 1
84
rx: 1 2.312500 -5.300000 1.412000
1
```

```
-14.657200 -29.796300 0.000000 -3.042032e-006 1.160884e-007 1
rx: 2 2.312500 -5.300000 2.412000
1
-14.657200 -29.796300 0.000000 -2.960939e-006 1.077246e-007 1
rx: 3 2.312500 -5.300000 3.412000
1
-14.657200 -29.796300 0.000000 -2.797694e-006 1.046952e-007 1
rx: 4 2.312500 -5.300000 3.912000
1
-14.657200 -29.796300 0.000000 -2.675669e-006 7.006252e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-14.657200 -29.796300 0.000000 -2.667879e-006 7.997484e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-14.657200 -29.796300 0.000000 -2.521770e-006 5.271946e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-14.657200 -29.796300 0.000000 -2.511692e-006 6.837048e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 0.000000 -2.355173e-006 3.531675e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-14.657200 -29.796300 0.000000 -2.335401e-006 6.845147e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-14.657200 -29.796300 0.000000 -2.152604e-006 5.658954e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-14.657200 -29.796300 0.000000 -2.163857e-006 3.906048e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 0.000000 -1.969188e-006 2.831269e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
-14.657200 -29.796300 0.000000 -1.974418e-006 1.906697e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-14.657200 -29.796300 0.000000 -1.774223e-006 9.405966e-009 1
rx: 15 2.312500 -5.300000 9.412000
1
-14.657200 -29.796300 0.000000 -1.769389e-006 2.103924e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 0.000000 -1.763018e-006 3.019982e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 0.000000 -1.679125e-006 3.788237e-009 1
rx: 18 2.312500 -5.300000 11.412000
1
-14.657200 -29.796300 0.000000 -1.484959e-006 -3.609391e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-14.657200 -29.796300 0.000000 -1.276354e-006 -2.559124e-008 1
rx: 20 2.312500 -5.300000 13.412000
1
```

```
-14.657200 -29.796300 0.000000 -1.068513e-006 -3.291745e-008 1
rx: 21 2.312500 -5.300000 14.412000
1
-14.657200 -29.796300 0.000000 -8.939014e-007 -4.953983e-008 1
rx: 1 4.250000 -2.503125 1.377000
1
-14.657200 -29.796300 0.000000 -2.184034e-006 1.078779e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-14.657200 -29.796300 0.000000 -2.147573e-006 6.501656e-009 1
rx: 3 4.250000 -2.503125 3.377000
1
-14.657200 -29.796300 0.000000 -2.100212e-006 4.433581e-009 1
rx: 4 4.250000 -2.503125 3.877000
1
-14.657200 -29.796300 0.000000 -2.068896e-006 5.476241e-009 1
rx: 5 4.250000 -2.503125 4.377000
1
-14.657200 -29.796300 0.000000 -2.039958e-006 -1.053253e-009 1
rx: 6 4.250000 -2.503125 4.877000
1
-14.657200 -29.796300 0.000000 -2.007029e-006 -8.153385e-009 1
rx: 7 4.250000 -2.503125 5.377000
1
-14.657200 -29.796300 0.000000 -1.970946e-006 -9.501385e-009 1
rx: 8 4.250000 -2.503125 5.877000
1
-14.657200 -29.796300 0.000000 -1.930893e-006 -1.367528e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-14.657200 -29.796300 0.000000 -1.884600e-006 -1.611598e-008 1
rx: 10 4.250000 -2.503125 6.877000
1
-14.657200 -29.796300 0.000000 -1.837890e-006 -2.133094e-008 1
rx: 11 4.250000 -2.503125 7.377000
1
-14.657200 -29.796300 0.000000 -1.784800e-006 -2.406153e-008 1
rx: 12 4.250000 -2.503125 7.877000
1
-14.657200 -29.796300 0.000000 -1.735980e-006 -2.565332e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
-14.657200 -29.796300 0.000000 -1.679582e-006 -1.772060e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 0.000000 -1.622468e-006 -1.696150e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 0.000000 -1.569620e-006 -2.508916e-008 1
rx: 16 4.250000 -2.503125 9.877000
1
-14.657200 -29.796300 0.000000 -1.515603e-006 -3.992984e-008 1
rx: 17 4.250000 -2.503125 10.377000
1
-14.657200 -29.796300 0.000000 -1.461324e-006 -4.423645e-008 1
rx: 18 4.250000 -2.503125 11.377000
1
```

```
-14.657200 -29.796300 0.000000 -1.341762e-006 -4.704849e-008 1
rx: 19 4.250000 -2.503125 12.377000
1
-14.657200 -29.796300 0.000000 -1.213742e-006 -5.855494e-008 1
rx: 20 4.250000 -2.503125 13.377000
1
-14.657200 -29.796300 0.000000 -1.090062e-006 -7.499951e-008 1
rx: 21 4.250000 -2.503125 14.377000
1
-14.657200 -29.796300 0.000000 -9.564212e-007 -8.415468e-008 1
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 0.000000 -2.069829e-006 -3.227527e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 0.000000 -2.031820e-006 -3.747677e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
-14.657200 -29.796300 0.000000 -1.988469e-006 -3.925705e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 0.000000 -1.957694e-006 -4.090285e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 0.000000 -1.921731e-006 -4.046492e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 0.000000 -1.886669e-006 -4.202466e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 0.000000 -1.850130e-006 -4.105877e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 0.000000 -1.815964e-006 -4.216485e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 0.000000 -1.770704e-006 -4.080004e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-14.657200 -29.796300 0.000000 -1.728708e-006 -4.444044e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 0.000000 -1.680005e-006 -3.570710e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 0.000000 -1.628412e-006 -3.324022e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 0.000000 -1.589337e-006 -4.387717e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
-14.657200 -29.796300 0.000000 -1.536271e-006 -4.533288e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 0.000000 -1.488038e-006 -4.500144e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
```

```
-14.657200 -29.796300 0.000000 -1.437753e-006 -5.110845e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 0.000000 -1.392495e-006 -5.914767e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-14.657200 -29.796300 0.000000 -1.281818e-006 -6.539292e-008 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 0.000000 -1.146531e-006 -6.608318e-008 1
rx: 20 2.312500 -0.456250 13.299000
1
-14.657200 -29.796300 0.000000 -1.007886e-006 -7.231272e-008 1
rx: 21 2.312500 -0.456250 14.299000
1
-14.657200 -29.796300 0.000000 -8.758035e-007 -8.167969e-008 1
rx: 1 0.750000 -3.971875 1.415000
1
-14.657200 -29.796300 0.000000 -2.974048e-006 7.853606e-008 1
rx: 2 0.750000 -3.971875 2.415000
1
-14.657200 -29.796300 0.000000 -2.902622e-006 7.421362e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-14.657200 -29.796300 0.000000 -2.818954e-006 6.506779e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-14.657200 -29.796300 0.000000 -2.753262e-006 7.309259e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-14.657200 -29.796300 0.000000 -2.701256e-006 5.700330e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 0.000000 -2.612345e-006 6.721030e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-14.657200 -29.796300 0.000000 -2.544246e-006 4.744416e-008 1
rx: 8 0.750000 -3.971875 5.915000
1
-14.657200 -29.796300 0.000000 -2.453580e-006 5.217286e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 0.000000 -2.363648e-006 3.976960e-008 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 0.000000 -2.258548e-006 3.692718e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 0.000000 -2.164498e-006 2.395305e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-14.657200 -29.796300 0.000000 -2.037911e-006 3.588123e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 0.000000 -1.936058e-006 2.652338e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
```

```
-14.657200 -29.796300 0.000000 -1.812860e-006 2.699043e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 0.000000 -1.699778e-006 1.593551e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 0.000000 -1.589314e-006 2.141172e-009 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 0.000000 -1.480817e-006 -1.046926e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 0.000000 -1.251127e-006 -1.273996e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 0.000000 -1.040386e-006 -3.443317e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-14.657200 -29.796300 0.000000 -8.436468e-007 -7.563226e-008 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 0.000000 -6.428699e-007 -9.114668e-008 1
```

Vertical magnetic dipole transmitter at location TX1, Phase 3:

```
hz freq: 8727 area: 1
84
rx: 1 2.312500 -0.456250 1.299000
1
-14.657200 -29.796300 0.000000 -2.011527e-006 -9.937998e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-14.657200 -29.796300 0.000000 -1.973957e-006 -1.047122e-007 1
rx: 3 2.312500 -0.456250 3.299000
1
-14.657200 -29.796300 0.000000 -1.926929e-006 -1.036749e-007 1
rx: 4 2.312500 -0.456250 3.799000
1
-14.657200 -29.796300 0.000000 -1.894841e-006 -1.044509e-007 1
rx: 5 2.312500 -0.456250 4.299000
1
-14.657200 -29.796300 0.000000 -1.861530e-006 -1.018105e-007 1
rx: 6 2.312500 -0.456250 4.799000
1
-14.657200 -29.796300 0.000000 -1.828949e-006 -1.001582e-007 1
rx: 7 2.312500 -0.456250 5.299000
1
-14.657200 -29.796300 0.000000 -1.796301e-006 -9.828060e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-14.657200 -29.796300 0.000000 -1.761114e-006 -9.891502e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-14.657200 -29.796300 0.000000 -1.722271e-006 -1.000125e-007 1
rx: 10 2.312500 -0.456250 6.799000
1
```

```
-14.657200 -29.796300 0.000000 -1.673825e-006 -9.119104e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-14.657200 -29.796300 0.000000 -1.628082e-006 -8.541419e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-14.657200 -29.796300 0.000000 -1.583019e-006 -8.985290e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-14.657200 -29.796300 0.000000 -1.536291e-006 -8.890629e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
-14.657200 -29.796300 0.000000 -1.484914e-006 -8.809180e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
-14.657200 -29.796300 0.000000 -1.436300e-006 -9.039159e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
-14.657200 -29.796300 0.000000 -1.392463e-006 -9.926407e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-14.657200 -29.796300 0.000000 -1.345048e-006 -1.096692e-007 1
rx: 18 2.312500 -0.456250 11.299000
1
-14.657200 -29.796300 0.000000 -1.240093e-006 -1.077096e-007 1
rx: 19 2.312500 -0.456250 12.299000
1
-14.657200 -29.796300 0.000000 -1.096603e-006 -9.655849e-008 1
rx: 20 2.312500 -0.456250 13.299000
1
-14.657200 -29.796300 0.000000 -9.725259e-007 -1.045797e-007 1
rx: 21 2.312500 -0.456250 14.299000
1
-14.657200 -29.796300 0.000000 -8.355694e-007 -1.128356e-007 1
rx: 1 0.750000 -3.971875 1.415000
1
-14.657200 -29.796300 0.000000 -2.908951e-006 -5.608729e-009 1
rx: 2 0.750000 -3.971875 2.415000
1
-14.657200 -29.796300 0.000000 -2.843378e-006 -1.331150e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-14.657200 -29.796300 0.000000 -2.750386e-006 -1.626577e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-14.657200 -29.796300 0.000000 -2.690775e-006 -1.770639e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-14.657200 -29.796300 0.000000 -2.622876e-006 -2.189563e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-14.657200 -29.796300 0.000000 -2.543093e-006 -1.951637e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-14.657200 -29.796300 0.000000 -2.458137e-006 -2.229095e-008 1
rx: 8 0.750000 -3.971875 5.915000
1
```

```
-14.657200 -29.796300 0.000000 -2.380264e-006 -3.223589e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-14.657200 -29.796300 0.000000 -2.285365e-006 -2.675460e-008 1
rx: 10 0.750000 -3.971875 6.915000
1
-14.657200 -29.796300 0.000000 -2.196928e-006 -4.588103e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-14.657200 -29.796300 0.000000 -2.091126e-006 -4.724286e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-14.657200 -29.796300 0.000000 -1.992376e-006 -5.942570e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-14.657200 -29.796300 0.000000 -1.888833e-006 -5.874898e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
-14.657200 -29.796300 0.000000 -1.776295e-006 -5.548841e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-14.657200 -29.796300 0.000000 -1.659714e-006 -5.991529e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-14.657200 -29.796300 0.000000 -1.547897e-006 -6.414712e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
-14.657200 -29.796300 0.000000 -1.431321e-006 -5.871308e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-14.657200 -29.796300 0.000000 -1.211932e-006 -8.371359e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-14.657200 -29.796300 0.000000 -1.004939e-006 -1.086669e-007 1
rx: 20 0.750000 -3.971875 13.415000
1
-14.657200 -29.796300 0.000000 -7.930096e-007 -1.257633e-007 1
rx: 21 0.750000 -3.971875 14.415000
1
-14.657200 -29.796300 0.000000 -6.095951e-007 -1.460127e-007 1
rx: 1 4.250000 -2.503125 1.377000
1
-14.657200 -29.796300 0.000000 -2.146937e-006 -5.361339e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-14.657200 -29.796300 0.000000 -2.107768e-006 -5.411746e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-14.657200 -29.796300 0.000000 -2.059733e-006 -5.278787e-008 1
rx: 4 4.250000 -2.503125 3.877000
1
-14.657200 -29.796300 0.000000 -2.031160e-006 -5.632492e-008 1
rx: 5 4.250000 -2.503125 4.377000
1
-14.657200 -29.796300 0.000000 -2.001302e-006 -6.043468e-008 1
rx: 6 4.250000 -2.503125 4.877000
1
```

```
-14.657200 -29.796300 0.000000 -1.966008e-006 -5.834086e-008 1
rx: 7 4.250000 -2.503125 5.377000
1
-14.657200 -29.796300 0.000000 -1.924978e-006 -5.120548e-008 1
rx: 8 4.250000 -2.503125 5.877000
1
-14.657200 -29.796300 0.000000 -1.882839e-006 -5.571652e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-14.657200 -29.796300 0.000000 -1.837027e-006 -5.454949e-008 1
rx: 10 4.250000 -2.503125 6.877000
1
-14.657200 -29.796300 0.000000 -1.787672e-006 -5.751370e-008 1
rx: 11 4.250000 -2.503125 7.377000
1
-14.657200 -29.796300 0.000000 -1.740021e-006 -6.514376e-008 1
rx: 12 4.250000 -2.503125 7.877000
1
-14.657200 -29.796300 0.000000 -1.688325e-006 -6.527256e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
-14.657200 -29.796300 0.000000 -1.645631e-006 -7.511759e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-14.657200 -29.796300 0.000000 -1.590739e-006 -6.635778e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-14.657200 -29.796300 0.000000 -1.536707e-006 -7.208989e-008 1
rx: 16 4.250000 -2.503125 9.877000
1
-14.657200 -29.796300 0.000000 -1.484473e-006 -8.042910e-008 1
rx: 17 4.250000 -2.503125 10.377000
1
-14.657200 -29.796300 0.000000 -1.421532e-006 -7.847756e-008 1
rx: 18 4.250000 -2.503125 11.377000
1
-14.657200 -29.796300 0.000000 -1.320152e-006 -8.413870e-008 1
rx: 19 4.250000 -2.503125 12.377000
1
-14.657200 -29.796300 0.000000 -1.179152e-006 -8.733108e-008 1
rx: 20 4.250000 -2.503125 13.377000
1
-14.657200 -29.796300 0.000000 -1.048292e-006 -7.896263e-008 1
rx: 21 4.250000 -2.503125 14.377000
1
-14.657200 -29.796300 0.000000 -9.097070e-007 -8.227335e-008 1
rx: 1 2.312500 -5.300000 1.412000
1
-14.657200 -29.796300 0.000000 -2.992034e-006 3.148961e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-14.657200 -29.796300 0.000000 -2.915480e-006 2.372787e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-14.657200 -29.796300 0.000000 -2.824420e-006 1.837347e-008 1
rx: 4 2.312500 -5.300000 3.912000
1
```

```
-14.657200 -29.796300 0.000000 -2.768156e-006 7.363253e-009 1
rx: 5 2.312500 -5.300000 4.412000
1
-14.657200 -29.796300 0.000000 -2.700138e-006 -3.065555e-009 1
rx: 6 2.312500 -5.300000 4.912000
1
-14.657200 -29.796300 0.000000 -2.632534e-006 -6.767514e-009 1
rx: 7 2.312500 -5.300000 5.412000
1
-14.657200 -29.796300 0.000000 -2.553603e-006 -5.839901e-010 1
rx: 8 2.312500 -5.300000 5.912000
1
-14.657200 -29.796300 0.000000 -2.480188e-006 -1.370132e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-14.657200 -29.796300 0.000000 -2.395729e-006 -2.406538e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-14.657200 -29.796300 0.000000 -2.308382e-006 -2.895539e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-14.657200 -29.796300 0.000000 -2.217943e-006 -3.449284e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
-14.657200 -29.796300 0.000000 -2.127643e-006 -3.969995e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
-14.657200 -29.796300 0.000000 -2.028915e-006 -2.355343e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-14.657200 -29.796300 0.000000 -1.922102e-006 -1.886551e-008 1
rx: 15 2.312500 -5.300000 9.412000
1
-14.657200 -29.796300 0.000000 -1.830487e-006 -3.343056e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-14.657200 -29.796300 0.000000 -1.738670e-006 -4.712102e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-14.657200 -29.796300 0.000000 -1.627966e-006 -4.801341e-008 1
rx: 18 2.312500 -5.300000 11.412000
1
-14.657200 -29.796300 0.000000 -1.429017e-006 -6.222802e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-14.657200 -29.796300 0.000000 -1.247455e-006 -7.394413e-008 1
rx: 20 2.312500 -5.300000 13.412000
1
-14.657200 -29.796300 0.000000 -1.051955e-006 -8.018262e-008 1
rx: 21 2.312500 -5.300000 14.412000
1
-14.657200 -29.796300 0.000000 -8.709575e-007 -9.729165e-008 1
```

Vertical magnetic dipole transmitter at location TX2, Phase 1:

```
hz freq: 8727 area: 1
```

```
76
rx: 1 0.750000 -3.971875 1.415000
1
-24.608100 -14.612200 0.000000 -4.006167e-006 5.559580e-007 1
rx: 2 0.750000 -3.971875 2.415000
1
-24.608100 -14.612200 0.000000 -3.917510e-006 5.125390e-007 1
rx: 3 0.750000 -3.971875 3.415000
1
-24.608100 -14.612200 0.000000 -3.799684e-006 5.178023e-007 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 0.000000 -3.691865e-006 5.431383e-007 1
rx: 5 0.750000 -3.971875 4.415000
1
-24.608100 -14.612200 0.000000 -3.608798e-006 4.560989e-007 1
rx: 6 0.750000 -3.971875 4.915000
1
-24.608100 -14.612200 0.000000 -3.501453e-006 4.887196e-007 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 0.000000 -3.365842e-006 4.746962e-007 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 0.000000 -3.268043e-006 4.656761e-007 1
rx: 9 0.750000 -3.971875 6.415000
1
-24.608100 -14.612200 0.000000 -3.155468e-006 3.834828e-007 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 0.000000 -3.003233e-006 3.863781e-007 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 0.000000 -2.873121e-006 3.765814e-007 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 0.000000 -2.718520e-006 3.801683e-007 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 0.000000 -2.611563e-006 3.161297e-007 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 0.000000 -2.467072e-006 2.689736e-007 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 0.000000 -2.314637e-006 2.414951e-007 1
rx: 16 0.750000 -3.971875 10.415000
1
-24.608100 -14.612200 0.000000 -2.030185e-006 2.083125e-007 1
rx: 17 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 0.000000 -1.675163e-006 2.355234e-007 1
rx: 18 0.750000 -3.971875 12.415000
1
-24.608100 -14.612200 0.000000 -1.448752e-006 1.691807e-007 1
rx: 19 0.750000 -3.971875 13.415000
1
```

```
-24.608100 -14.612200 0.000000 -1.162958e-006 1.215028e-007 1
rx: 20 0.750000 -3.971875 14.415000
1
-24.608100 -14.612200 0.000000 -8.826031e-007 8.995067e-008 1
rx: 1 4.250000 -2.503125 1.377000
1
-24.608100 -14.612200 0.000000 -2.706519e-006 3.588987e-007 1
rx: 2 4.250000 -2.503125 2.377000
1
-24.608100 -14.612200 0.000000 -2.664225e-006 3.666300e-007 1
rx: 3 4.250000 -2.503125 3.377000
1
-24.608100 -14.612200 0.000000 -2.584548e-006 3.938152e-007 1
rx: 4 4.250000 -2.503125 3.877000
1
-24.608100 -14.612200 0.000000 -2.564681e-006 3.877339e-007 1
rx: 5 4.250000 -2.503125 4.377000
1
-24.608100 -14.612200 0.000000 -2.559883e-006 3.502542e-007 1
rx: 6 4.250000 -2.503125 4.877000
1
-24.608100 -14.612200 0.000000 -2.502737e-006 3.897186e-007 1
rx: 7 4.250000 -2.503125 7.877000
1
-24.608100 -14.612200 0.000000 -1.974365e-006 2.755205e-007 1
rx: 8 4.250000 -2.503125 8.377000
1
-24.608100 -14.612200 0.000000 -1.934109e-006 3.087828e-007 1
rx: 9 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 0.000000 -1.886700e-006 2.266449e-007 1
rx: 10 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 0.000000 -1.830853e-006 2.721361e-007 1
rx: 11 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 0.000000 -1.758070e-006 2.620562e-007 1
rx: 12 4.250000 -2.503125 10.377000
1
-24.608100 -14.612200 0.000000 -1.713616e-006 2.779426e-007 1
rx: 13 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 0.000000 -1.573807e-006 2.396130e-007 1
rx: 14 4.250000 -2.503125 12.377000
1
-24.608100 -14.612200 0.000000 -1.400281e-006 2.354763e-007 1
rx: 15 4.250000 -2.503125 13.377000
1
-24.608100 -14.612200 0.000000 -1.265595e-006 1.567409e-007 1
rx: 16 4.250000 -2.503125 14.377000
1
-24.608100 -14.612200 0.000000 -1.086837e-006 1.735210e-007 1
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 0.000000 -3.731223e-006 4.224843e-007 1
rx: 2 2.312500 -5.300000 2.412000
1
```

```
-24.608100 -14.612200 0.000000 -3.445322e-006 3.802810e-007 1
rx: 3 2.312500 -5.300000 3.412000
1
-24.608100 -14.612200 0.000000 -3.341295e-006 3.747503e-007 1
rx: 4 2.312500 -5.300000 3.912000
1
-24.608100 -14.612200 0.000000 -3.265775e-006 3.595438e-007 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 0.000000 -3.174542e-006 3.679627e-007 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 0.000000 -3.103193e-006 3.484777e-007 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 0.000000 -3.019303e-006 3.205764e-007 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 0.000000 -2.922081e-006 3.024442e-007 1
rx: 9 2.312500 -5.300000 6.412000
1
-24.608100 -14.612200 0.000000 -2.840365e-006 2.943313e-007 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 0.000000 -2.718085e-006 3.021175e-007 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 0.000000 -2.621830e-006 2.936294e-007 1
rx: 12 2.312500 -5.300000 7.912000
1
-24.608100 -14.612200 0.000000 -2.505546e-006 2.874068e-007 1
rx: 13 2.312500 -5.300000 8.412000
1
-24.608100 -14.612200 0.000000 -2.386545e-006 2.804552e-007 1
rx: 14 2.312500 -5.300000 8.912000
1
-24.608100 -14.612200 0.000000 -2.258796e-006 2.717024e-007 1
rx: 15 2.312500 -5.300000 9.412000
1
-24.608100 -14.612200 0.000000 -2.148965e-006 2.373071e-007 1
rx: 16 2.312500 -5.300000 10.412000
1
-24.608100 -14.612200 0.000000 -1.918193e-006 2.058393e-007 1
rx: 17 2.312500 -5.300000 11.412000
1
-24.608100 -14.612200 0.000000 -1.551510e-006 2.029773e-007 1
rx: 18 2.312500 -5.300000 12.412000
1
-24.608100 -14.612200 0.000000 -1.303294e-006 1.524641e-007 1
rx: 19 2.312500 -5.300000 13.412000
1
-24.608100 -14.612200 0.000000 -1.023553e-006 1.367490e-007 1
rx: 20 2.312500 -5.300000 14.412000
1
-24.608100 -14.612200 0.000000 -7.843221e-007 1.043922e-007 1
rx: 1 2.312500 -0.456250 1.299000
1
```

```
-24.608100 -14.612200 0.000000 -2.838385e-006 3.130419e-007 1
rx: 2 2.312500 -0.456250 2.299000
1
-24.608100 -14.612200 0.000000 -2.775836e-006 3.138191e-007 1
rx: 3 2.312500 -0.456250 3.299000
1
-24.608100 -14.612200 0.000000 -2.694395e-006 3.028003e-007 1
rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 0.000000 -2.654340e-006 2.905777e-007 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 0.000000 -2.612068e-006 2.655692e-007 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 0.000000 -2.550613e-006 2.669238e-007 1
rx: 7 2.312500 -0.456250 5.299000
1
-24.608100 -14.612200 0.000000 -2.503012e-006 2.782099e-007 1
rx: 8 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 0.000000 -2.448215e-006 2.686536e-007 1
rx: 9 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 0.000000 -2.373448e-006 2.763770e-007 1
rx: 10 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 0.000000 -2.245131e-006 2.568888e-007 1
rx: 11 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 0.000000 -2.175526e-006 2.534492e-007 1
rx: 12 2.312500 -0.456250 8.299000
1
-24.608100 -14.612200 0.000000 -2.096268e-006 2.709334e-007 1
rx: 13 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 0.000000 -2.035290e-006 2.358710e-007 1
rx: 14 2.312500 -0.456250 9.299000
1
-24.608100 -14.612200 0.000000 -1.960540e-006 2.264742e-007 1
rx: 15 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 0.000000 -1.890344e-006 1.898008e-007 1
rx: 16 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 0.000000 -1.807400e-006 1.952900e-007 1
rx: 17 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 0.000000 -1.648078e-006 1.802599e-007 1
rx: 18 2.312500 -0.456250 12.299000
1
-24.608100 -14.612200 0.000000 -1.435697e-006 1.496969e-007 1
rx: 19 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 0.000000 -1.222875e-006 1.284843e-007 1
rx: 20 2.312500 -0.456250 14.299000
1
```

```
-24.608100 -14.612200 0.000000 -1.021494e-006 9.810150e-008 1
```

Vertical magnetic dipole transmitter at location TX2, Phase 2:

```
hz freq: 8727 area: 1
82
rx: 1 0.750000 -3.971875 1.415000
1
-24.608100 -14.612200 0.000000 -3.802719e-006 -5.679910e-008 1
rx: 2 0.750000 -3.971875 2.415000
1
-24.608100 -14.612200 0.000000 -3.708000e-006 -5.729000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
-24.608100 -14.612200 0.000000 -3.589164e-006 -5.160364e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 0.000000 -3.511698e-006 -5.015656e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-24.608100 -14.612200 0.000000 -3.418886e-006 -5.191475e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-24.608100 -14.612200 0.000000 -3.328053e-006 -4.201386e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 0.000000 -3.216557e-006 -5.097088e-008 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 0.000000 -3.110784e-006 -3.526141e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-24.608100 -14.612200 0.000000 -2.974213e-006 -5.974375e-008 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 0.000000 -2.872565e-006 -3.703160e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 0.000000 -2.717404e-006 -5.754769e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 0.000000 -2.593396e-006 -4.978569e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 0.000000 -2.448723e-006 -6.335979e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 0.000000 -2.305150e-006 -6.940116e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 0.000000 -2.165765e-006 -5.570397e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-24.608100 -14.612200 0.000000 -2.021669e-006 -4.883109e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
```

```
-24.608100 -14.612200 0.000000 -1.895139e-006 -3.746718e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 0.000000 -1.599200e-006 -4.795816e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-24.608100 -14.612200 0.000000 -1.329097e-006 -4.603945e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-24.608100 -14.612200 0.000000 -1.058101e-006 -5.403814e-008 1
rx: 21 0.750000 -3.971875 14.415000
1
-24.608100 -14.612200 0.000000 -8.028693e-007 -4.407511e-008 1
rx: 1 2.312500 -0.456250 1.299000
1
-24.608100 -14.612200 0.000000 -2.833819e-006 -4.200819e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-24.608100 -14.612200 0.000000 -2.772000e-006 -4.914000e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
-24.608100 -14.612200 0.000000 -2.699011e-006 -5.420232e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 0.000000 -2.651882e-006 -4.954035e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 0.000000 -2.607632e-006 -4.203135e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 0.000000 -2.563645e-006 -3.560386e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
-24.608100 -14.612200 0.000000 -2.512562e-006 -3.709117e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 0.000000 -2.450317e-006 -4.344057e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 0.000000 -2.381836e-006 -4.936789e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-24.608100 -14.612200 0.000000 -2.311606e-006 -5.175843e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 0.000000 -2.248124e-006 -5.346321e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 0.000000 -2.176991e-006 -6.125467e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-24.608100 -14.612200 0.000000 -2.121517e-006 -3.836998e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 0.000000 -2.051248e-006 -2.790685e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
```

```
-24.608100 -14.612200 0.000000 -1.975176e-006 -2.633313e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 0.000000 -1.893036e-006 -3.412598e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 0.000000 -1.808793e-006 -5.195527e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 0.000000 -1.646287e-006 -2.937813e-008 1
rx: 19 2.312500 -0.456250 12.299000
1
-24.608100 -14.612200 0.000000 -1.438393e-006 -3.374110e-008 1
rx: 20 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 0.000000 -1.219747e-006 -4.798598e-008 1
rx: 21 2.312500 -0.456250 14.299000
1
-24.608100 -14.612200 0.000000 -1.018171e-006 -3.850087e-008 1
rx: 1 4.250000 -2.503125 1.377000
1
-24.608100 -14.612200 0.000000 -2.584405e-006 -4.915296e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-24.608100 -14.612200 0.000000 -2.540000e-006 -4.701000e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-24.608100 -14.612200 0.000000 -2.477673e-006 -5.052492e-008 1
rx: 4 4.250000 -2.503125 3.877000
1
-24.608100 -14.612200 0.000000 -2.442094e-006 -4.901893e-008 1
rx: 5 4.250000 -2.503125 4.377000
1
-24.608100 -14.612200 0.000000 -2.398962e-006 -4.433835e-008 1
rx: 6 4.250000 -2.503125 4.877000
1
-24.608100 -14.612200 0.000000 -2.340531e-006 -5.516660e-008 1
rx: 7 4.250000 -2.503125 5.377000
1
-24.608100 -14.612200 0.000000 -2.289260e-006 -5.388975e-008 1
rx: 8 4.250000 -2.503125 5.877000
1
-24.608100 -14.612200 0.000000 -2.239716e-006 -4.603807e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-24.608100 -14.612200 0.000000 -2.187928e-006 -4.265697e-008 1
rx: 10 4.250000 -2.503125 6.877000
1
-24.608100 -14.612200 0.000000 -2.122051e-006 -4.907978e-008 1
rx: 11 4.250000 -2.503125 7.377000
1
-24.608100 -14.612200 0.000000 -2.066127e-006 -3.894801e-008 1
rx: 12 4.250000 -2.503125 7.877000
1
-24.608100 -14.612200 0.000000 -1.992264e-006 -5.351534e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
```

```
-24.608100 -14.612200 0.000000 -1.940969e-006 -2.733211e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 0.000000 -1.875205e-006 -2.290943e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 0.000000 -1.808233e-006 -2.584268e-008 1
rx: 16 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 0.000000 -1.729145e-006 -3.085718e-008 1
rx: 17 4.250000 -2.503125 10.377000
1
-24.608100 -14.612200 0.000000 -1.662829e-006 -2.891470e-008 1
rx: 18 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 0.000000 -1.507112e-006 -3.249842e-008 1
rx: 19 4.250000 -2.503125 12.377000
1
-24.608100 -14.612200 0.000000 -1.355581e-006 -1.359460e-008 1
rx: 20 4.250000 -2.503125 13.377000
1
-24.608100 -14.612200 0.000000 -1.186924e-006 -3.630970e-008 1
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 0.000000 -3.413000e-006 -5.728776e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-24.608100 -14.612200 0.000000 -3.341000e-006 -5.427000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-24.608100 -14.612200 0.000000 -3.246604e-006 -6.228638e-008 1
rx: 4 2.312500 -5.300000 3.912000
1
-24.608100 -14.612200 0.000000 -3.197022e-006 -4.984280e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 0.000000 -3.121373e-006 -5.905328e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 0.000000 -3.048487e-006 -5.658759e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 0.000000 -2.968019e-006 -6.526342e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 0.000000 -2.905503e-006 -3.865548e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
-24.608100 -14.612200 0.000000 -2.806710e-006 -5.921643e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 0.000000 -2.714058e-006 -7.323921e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 0.000000 -2.634402e-006 -4.625597e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
```

```
-24.608100 -14.612200 0.000000 -2.538861e-006 -5.235095e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
-24.608100 -14.612200 0.000000 -2.452046e-006 -3.029658e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-24.608100 -14.612200 0.000000 -2.355485e-006 -2.995969e-008 1
rx: 15 2.312500 -5.300000 9.412000
1
-24.608100 -14.612200 0.000000 -2.247270e-006 -3.609095e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-24.608100 -14.612200 0.000000 -2.140903e-006 -2.750182e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-24.608100 -14.612200 0.000000 -2.039634e-006 -2.663888e-008 1
rx: 18 2.312500 -5.300000 11.412000
1
-24.608100 -14.612200 0.000000 -1.832184e-006 -1.643773e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-24.608100 -14.612200 0.000000 -1.618452e-006 -1.195060e-008 1
rx: 20 2.312500 -5.300000 13.412000
1
-24.608100 -14.612200 0.000000 -1.396073e-006 -5.151846e-009 1
```

Vertical magnetic dipole transmitter at location TX2, Phase 3:

hz freq: 8727 area: 0
21

```
rx: 1 2.312500 -5.300000 1.412000
1
-24.608100 -14.612200 0.000000 -3.417787e-006 -5.629657e-008 1
rx: 2 2.312500 -5.300000 2.412000
1
-24.608100 -14.612200 0.000000 -3.341000e-006 -5.427000e-008 1
rx: 3 2.312500 -5.300000 3.412000
1
-24.608100 -14.612200 0.000000 -3.246087e-006 -6.330267e-008 1
rx: 4 2.312500 -5.300000 3.912000
1
-24.608100 -14.612200 0.000000 -3.184917e-006 -6.144459e-008 1
rx: 5 2.312500 -5.300000 4.412000
1
-24.608100 -14.612200 0.000000 -3.121488e-006 -5.549779e-008 1
rx: 6 2.312500 -5.300000 4.912000
1
-24.608100 -14.612200 0.000000 -3.052438e-006 -4.932935e-008 1
rx: 7 2.312500 -5.300000 5.412000
1
-24.608100 -14.612200 0.000000 -2.984988e-006 -4.107388e-008 1
rx: 8 2.312500 -5.300000 5.912000
1
-24.608100 -14.612200 0.000000 -2.915625e-006 -3.475275e-008 1
rx: 9 2.312500 -5.300000 6.412000
1
```

```
-24.608100 -14.612200 0.000000 -2.827621e-006 -3.600588e-008 1
rx: 10 2.312500 -5.300000 6.912000
1
-24.608100 -14.612200 0.000000 -2.737652e-006 -3.247167e-008 1
rx: 11 2.312500 -5.300000 7.412000
1
-24.608100 -14.612200 0.000000 -2.650280e-006 -3.214004e-008 1
rx: 12 2.312500 -5.300000 7.912000
1
-24.608100 -14.612200 0.000000 -2.554480e-006 -3.195419e-008 1
rx: 13 2.312500 -5.300000 8.412000
1
-24.608100 -14.612200 0.000000 -2.445871e-006 -4.713213e-008 1
rx: 14 2.312500 -5.300000 8.912000
1
-24.608100 -14.612200 0.000000 -2.352274e-006 -3.948127e-008 1
rx: 15 2.312500 -5.300000 9.412000
1
-24.608100 -14.612200 0.000000 -2.244167e-006 -4.757646e-008 1
rx: 16 2.312500 -5.300000 9.912000
1
-24.608100 -14.612200 0.000000 -2.149450e-006 -3.617793e-008 1
rx: 17 2.312500 -5.300000 10.412000
1
-24.608100 -14.612200 0.000000 -2.042230e-006 -2.474034e-008 1
rx: 18 2.312500 -5.300000 11.412000
1
-24.608100 -14.612200 0.000000 -1.827241e-006 -4.473809e-008 1
rx: 19 2.312500 -5.300000 12.412000
1
-24.608100 -14.612200 0.000000 -1.615515e-006 -4.843202e-008 1


rx: 20 2.312500 -5.300000 13.412000
1
-24.608100 -14.612200 0.000000 -1.391659e-006 -4.396171e-008 1
rx: 21 2.312500 -5.300000 14.412000
1
-24.608100 -14.612200 0.000000 -1.209760e-006 -1.900035e-008 1
hz freq: 8727 area: 0
21
rx: 1 4.250000 -2.503125 1.377000
1
-24.608100 -14.612200 0.000000 -2.583943e-006 -4.729903e-008 1
rx: 2 4.250000 -2.503125 2.377000
1
-24.608100 -14.612200 0.000000 -2.540000e-006 -4.701000e-008 1
rx: 3 4.250000 -2.503125 3.377000
1
-24.608100 -14.612200 0.000000 -2.482955e-006 -4.965301e-008 1
rx: 4 4.250000 -2.503125 3.877000
1
-24.608100 -14.612200 0.000000 -2.443771e-006 -5.216367e-008 1
rx: 5 4.250000 -2.503125 4.377000
1
-24.608100 -14.612200 0.000000 -2.402487e-006 -5.140141e-008 1
rx: 6 4.250000 -2.503125 4.877000
```

```
1
-24.608100 -14.612200 0.000000 -2.355209e-006 -5.354028e-008 1
rx: 7 4.250000 -2.503125 5.377000
1
-24.608100 -14.612200 0.000000 -2.303107e-006 -5.411892e-008 1
rx: 8 4.250000 -2.503125 5.877000
1
-24.608100 -14.612200 0.000000 -2.253926e-006 -4.723206e-008 1
rx: 9 4.250000 -2.503125 6.377000
1
-24.608100 -14.612200 0.000000 -2.192474e-006 -4.934382e-008 1
rx: 10 4.250000 -2.503125 6.877000
1
-24.608100 -14.612200 0.000000 -2.134403e-006 -4.282327e-008 1
rx: 11 4.250000 -2.503125 7.377000
1
-24.608100 -14.612200 0.000000 -2.071879e-006 -2.785825e-008 1
rx: 12 4.250000 -2.503125 7.877000
1
-24.608100 -14.612200 0.000000 -2.009076e-006 -3.238739e-008 1
rx: 13 4.250000 -2.503125 8.377000
1
-24.608100 -14.612200 0.000000 -1.951207e-006 -2.865534e-008 1
rx: 14 4.250000 -2.503125 8.877000
1
-24.608100 -14.612200 0.000000 -1.888096e-006 -3.006147e-008 1
rx: 15 4.250000 -2.503125 9.377000
1
-24.608100 -14.612200 0.000000 -1.818419e-006 -2.580760e-008 1
rx: 16 4.250000 -2.503125 9.877000
1
-24.608100 -14.612200 0.000000 -1.745477e-006 -3.449496e-008 1
rx: 17 4.250000 -2.503125 10.377000
1
-24.608100 -14.612200 0.000000 -1.655796e-006 -4.977562e-008 1
rx: 18 4.250000 -2.503125 11.377000
1
-24.608100 -14.612200 0.000000 -1.530995e-006 -4.025147e-008 1
rx: 19 4.250000 -2.503125 12.377000
1
-24.608100 -14.612200 0.000000 -1.361819e-006 -2.125207e-008 1
rx: 20 4.250000 -2.503125 13.377000
1
-24.608100 -14.612200 0.000000 -1.190666e-006 -2.945247e-008 1
rx: 21 4.250000 -2.503125 14.377000
1
-24.608100 -14.612200 0.000000 -1.042142e-006 -1.760445e-008 1
hz freq: 8727 area: 0
21
rx: 1 0.750000 -3.971875 1.415000
1
-24.608100 -14.612200 0.000000 -3.800616e-006 -6.417860e-008 1
rx: 2 0.750000 -3.971875 2.415000
1
-24.608100 -14.612200 0.000000 -3.708000e-006 -5.729000e-008 1
rx: 3 0.750000 -3.971875 3.415000
1
```

```
-24.608100 -14.612200 0.000000 -3.577908e-006 -6.310876e-008 1
rx: 4 0.750000 -3.971875 3.915000
1
-24.608100 -14.612200 0.000000 -3.493800e-006 -6.894143e-008 1
rx: 5 0.750000 -3.971875 4.415000
1
-24.608100 -14.612200 0.000000 -3.398715e-006 -6.696855e-008 1
rx: 6 0.750000 -3.971875 4.915000
1
-24.608100 -14.612200 0.000000 -3.305331e-006 -5.973576e-008 1
rx: 7 0.750000 -3.971875 5.415000
1
-24.608100 -14.612200 0.000000 -3.205009e-006 -5.990418e-008 1
rx: 8 0.750000 -3.971875 5.915000
1
-24.608100 -14.612200 0.000000 -3.094110e-006 -6.297237e-008 1
rx: 9 0.750000 -3.971875 6.415000
1
-24.608100 -14.612200 0.000000 -2.965114e-006 -7.218440e-008 1
rx: 10 0.750000 -3.971875 6.915000
1
-24.608100 -14.612200 0.000000 -2.842555e-006 -7.674776e-008 1
rx: 11 0.750000 -3.971875 7.415000
1
-24.608100 -14.612200 0.000000 -2.711760e-006 -6.226682e-008 1
rx: 12 0.750000 -3.971875 7.915000
1
-24.608100 -14.612200 0.000000 -2.579561e-006 -6.151220e-008 1
rx: 13 0.750000 -3.971875 8.415000
1
-24.608100 -14.612200 0.000000 -2.447320e-006 -6.573929e-008 1
rx: 14 0.750000 -3.971875 8.915000
1
-24.608100 -14.612200 0.000000 -2.308168e-006 -5.341557e-008 1
rx: 15 0.750000 -3.971875 9.415000
1
-24.608100 -14.612200 0.000000 -2.166268e-006 -4.999544e-008 1
rx: 16 0.750000 -3.971875 9.915000
1
-24.608100 -14.612200 0.000000 -2.030111e-006 -3.094189e-008 1
rx: 17 0.750000 -3.971875 10.415000
1
-24.608100 -14.612200 0.000000 -1.888438e-006 -2.858435e-008 1
rx: 18 0.750000 -3.971875 11.415000
1
-24.608100 -14.612200 0.000000 -1.602269e-006 -2.753827e-008 1
rx: 19 0.750000 -3.971875 12.415000
1
-24.608100 -14.612200 0.000000 -1.350272e-006 -2.772857e-008 1
rx: 20 0.750000 -3.971875 13.415000
1
-24.608100 -14.612200 0.000000 -1.057258e-006 -3.618135e-008 1
rx: 21 0.750000 -3.971875 14.415000
1
-24.608100 -14.612200 0.000000 -8.136254e-007 -2.490339e-008 1
hz freq: 8727 area: 0
21
```

```
rx: 1 2.312500 -0.456250 1.299000
1
-24.608100 -14.612200 0.000000 -2.828094e-006 -5.242548e-008 1
rx: 2 2.312500 -0.456250 2.299000
1
-24.608100 -14.612200 0.000000 -2.772000e-006 -4.914000e-008 1
rx: 3 2.312500 -0.456250 3.299000
1
-24.608100 -14.612200 0.000000 -2.704832e-006 -4.447962e-008 1
rx: 4 2.312500 -0.456250 3.799000
1
-24.608100 -14.612200 0.000000 -2.660605e-006 -4.550011e-008 1
rx: 5 2.312500 -0.456250 4.299000
1
-24.608100 -14.612200 0.000000 -2.607114e-006 -4.524783e-008 1
rx: 6 2.312500 -0.456250 4.799000
1
-24.608100 -14.612200 0.000000 -2.559871e-006 -4.708488e-008 1
rx: 7 2.312500 -0.456250 5.299000
1
-24.608100 -14.612200 0.000000 -2.511048e-006 -4.764837e-008 1
rx: 8 2.312500 -0.456250 5.799000
1
-24.608100 -14.612200 0.000000 -2.451286e-006 -5.489840e-008 1
rx: 9 2.312500 -0.456250 6.299000
1
-24.608100 -14.612200 0.000000 -2.384267e-006 -5.118398e-008 1
rx: 10 2.312500 -0.456250 6.799000
1
-24.608100 -14.612200 0.000000 -2.313772e-006 -4.962651e-008 1
rx: 11 2.312500 -0.456250 7.299000
1
-24.608100 -14.612200 0.000000 -2.253279e-006 -5.019702e-008 1
rx: 12 2.312500 -0.456250 7.799000
1
-24.608100 -14.612200 0.000000 -2.188099e-006 -3.685986e-008 1
rx: 13 2.312500 -0.456250 8.299000
1
-24.608100 -14.612200 0.000000 -2.116229e-006 -3.498168e-008 1
rx: 14 2.312500 -0.456250 8.799000
1
-24.608100 -14.612200 0.000000 -2.037458e-006 -3.613354e-008 1
rx: 15 2.312500 -0.456250 9.299000
1
-24.608100 -14.612200 0.000000 -1.958119e-006 -4.680384e-008 1
rx: 16 2.312500 -0.456250 9.799000
1
-24.608100 -14.612200 0.000000 -1.884801e-006 -3.768682e-008 1
rx: 17 2.312500 -0.456250 10.299000
1
-24.608100 -14.612200 0.000000 -1.804768e-006 -3.232326e-008 1
rx: 18 2.312500 -0.456250 11.299000
1
-24.608100 -14.612200 0.000000 -1.637770e-006 -4.446245e-008 1
rx: 19 2.312500 -0.456250 12.299000
1
-24.608100 -14.612200 0.000000 -1.429052e-006 -3.870448e-008 1
```

```
rx: 20 2.312500 -0.456250 13.299000
1
-24.608100 -14.612200 0.000000 -1.209653e-006 -5.735268e-008 1
rx: 21 2.312500 -0.456250 14.299000
1
-24.608100 -14.612200 0.000000 -1.015213e-006 -5.336341e-008 1
```

Appendix 2: Surface IMAGEM Data

This is the surface IMAGEM data for Phase 1 (5/23/2000). There are 14 sites starting at -16 and ending at +8 m on the Imagme line spaced every 2 m.

DATASET is the header for each new site.

Each frequency in the DATASET has two lines; the second line is not used in this form.

In the first line of each 2 line group,

- The first word is the frequency; the 5th word is the TM apparent resistivity
- The 6th word is the TM phase; the seventh word is the TE apparent resistivity
- The 8th word is the TE phase.

```
     DATASET
1.219e+03 1.000e+00 1.000e+00 0.000e+00 2.230e+02 6.498e+01 5.220e+01-8.980e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 0.000e+00 0.000e+00 2.230e+02 6.844e+01 5.220e+01-8.980e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.860e+02 7.215e+01 5.720e+01-8.930e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 3.070e+02 7.387e+01 7.740e+01-9.490e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 2.830e+02 6.577e+01 3.140e+02-1.217e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 3.770e+02 6.835e+01 2.040e+02-9.970e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 6.210e+02 5.427e+01 2.760e+02-9.850e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 6.550e+02 5.718e+01 2.890e+02-1.012e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 7.790e+02 5.848e+01 4.180e+02-1.070e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 5.160e+02 4.975e+01 5.110e+02-1.192e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 4.330e+02 4.991e+01 4.450e+02-1.216e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.190e+02 3.034e+01 5.560e+02-1.171e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 4.260e+02 3.846e+01 4.720e+02-1.353e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.219e+03 1.000e+00 1.000e+00 0.000e+00 1.970e+02 6.788e+01 5.410e+01-1.113e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 1.970e+02 7.021e+01 5.410e+01-1.003e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.150e+02 7.092e+01 5.000e+01-9.135e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 3.380e+02 6.921e+01 9.860e+01-9.643e+01
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6.703e+03 0.000e+00 0.000e+00 0.000e+00 4.800e+02 6.551e+01 2.000e+02-1.054e+02
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2.304e+04 0.000e+00 0.000e+00 0.000e+00 5.550e+02 5.168e+01 4.250e+02-1.194e+02
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 1.050e+02 7.388e+01 1.800e+01-9.305e+01
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3.516e+03 0.000e+00 0.000e+00 0.000e+00 1.540e+02 7.090e+01 2.350e+01-9.568e+01
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2.719e+03 0.000e+00 0.000e+00 0.000e+00 1.350e+02 7.290e+01 2.210e+01-9.377e+01
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1.148e+04 0.000e+00 0.000e+00 0.000e+00 3.310e+02 6.119e+01 1.240e+02-1.068e+02
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 2.260e+02 7.329e+01 3.240e+01-9.783e+01
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1.875e+03 0.000e+00 0.000e+00 0.000e+00 6.190e+01 7.606e+01 1.050e+01-9.319e+01
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 7.710e+01 7.667e+01 1.250e+01-9.223e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 8.210e+01 7.560e+01 1.510e+01-9.425e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.300e+02 7.111e+01 2.780e+01-9.614e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.680e+02 6.830e+01 3.750e+01-9.996e+01
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1.514e+04 0.000e+00 0.000e+00 0.000e+00 2.350e+02 6.037e+01 6.660e+01-1.080e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.530e+02 5.637e+01 8.490e+01-1.144e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 3.030e+02 5.399e+01 9.010e+01-1.171e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 2.760e+02 4.878e+01 1.060e+02-1.246e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.000e+02 4.135e+01 1.350e+02-1.264e+02
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 7.500e+01 7.695e+01 1.380e+01-9.236e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 7.840e+01 7.757e+01 1.670e+01-9.281e+01
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6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.630e+02 6.994e+01 3.960e+01-1.019e+02
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3.516e+03 0.000e+00 0.000e+00 0.000e+00 5.160e+01 7.896e+01 1.070e+01-9.402e+01
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 7.320e+01 7.501e+01 1.510e+01-9.556e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 1.540e+02 6.182e+01 4.650e+01-1.107e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 1.870e+02 5.662e+01 6.280e+01-1.096e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 1.970e+02 4.787e+01 6.720e+01-1.237e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.060e+02 4.159e+01 7.800e+01-1.207e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 1.690e+01 8.093e+01 2.970e+00-1.016e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 0.000e+00 0.000e+00 2.530e+01 8.037e+01 5.020e+00-9.176e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.910e+01 8.163e+01 6.030e+00-9.084e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 2.980e+01 7.952e+01 9.770e+00-1.492e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 3.840e+01 7.832e+01 1.200e+02-1.337e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 6.970e+01 1.883e+01 3.180e+01-1.555e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.280e+02 2.477e+01 1.300e+02-1.241e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 8.310e+01 6.402e+01 8.770e+01-1.244e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 3.490e+01 3.117e+01 6.660e+01-1.352e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 5.030e+01 3.299e+01 1.070e+02-1.424e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 2.600e+01 5.888e+01 3.420e+01-1.490e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 2.170e+01 2.053e+01 2.620e+00-7.773e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.680e+01 2.929e+01 1.440e+00-1.343e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
```

This is the surface IMAGEM data for Phase 2 (6/5/2000). There are 16 sites starting at -16 and ending at +14 m on the Imagme line spaced every 2 m.

DATASET is the header for each new site.

Each frequency in the DATASET has two lines; the second line is not used in this form.

In the first line of each 2 line group,

- The first word is the frequency; the 5th word is the TM apparent resistivity
- The 6th word is the TM phase; the seventh word is the TE apparent resistivity
- The 8th word is the TE phase.

```
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 3.540e+02 8.701e+01 1.140e+02-8.978e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 2.040e+02 6.629e+01 1.760e+02-9.025e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.530e+02 7.174e+01 8.430e+01-9.064e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 1.000e+00 0.000e+00 0.000e+00 2.500e+02 6.968e+01 1.890e+02-9.159e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 4.210e+02 6.598e+01 1.150e+02-9.407e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 5.100e+02 6.703e+01 1.420e+02-9.338e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 6.150e+02 7.422e+01 1.810e+02-9.331e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 9.030e+02 6.700e+01 2.760e+02-9.686e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.210e+03 7.671e+01 4.080e+02-1.014e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 1.350e+03 7.238e+01 4.880e+02-1.129e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 2.910e+03 6.336e+01 5.620e+02-1.106e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 1.670e+03 4.405e+01 6.920e+02-1.216e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 1.260e+03 1.773e+01 6.460e+02-1.259e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 7.460e+02 5.551e+01 6.840e+01-6.791e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 0.000e+00 0.000e+00 2.200e+02 7.434e+01 3.460e+01-8.670e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.320e+02 7.227e+01 5.110e+01-9.186e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 2.510e+02 7.000e+01 5.800e+01-8.801e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 3.050e+02 6.979e+01 8.590e+01-9.118e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 3.860e+02 6.721e+01 1.040e+02-9.550e+01
```

```
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 4.930e+02 6.996e+01 1.240e+02-9.443e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 7.810e+02 8.131e+01 1.930e+02-9.792e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.420e+03 7.843e+01 3.850e+02-1.009e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 1.470e+03 6.148e+01 3.730e+02-1.077e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 2.120e+03 4.544e+01 3.980e+02-1.097e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 1.070e+03 1.588e+01 5.670e+02-1.171e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 7.250e+02 2.295e+01 4.910e+02-1.218e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 1.390e+02 8.109e+01 1.850e+01-8.967e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 0.000e+00 0.000e+00 1.070e+02 7.322e+01 1.700e+01-8.990e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 1.210e+02 7.241e+01 2.300e+01-9.175e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 1.250e+02 7.559e+01 2.380e+01-9.114e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 1.480e+02 7.120e+01 3.530e+01-9.514e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 2.170e+02 6.739e+01 5.000e+01-9.665e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 2.670e+02 6.550e+01 6.680e+01-9.692e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 3.090e+02 5.546e+01 1.000e+02-9.860e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 4.920e+02 7.619e+01 1.320e+02-1.013e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 6.290e+02 6.911e+01 1.840e+02-1.072e+02
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3.030e+04 0.000e+00 0.000e+00 0.000e+00 9.480e+02 5.913e+01 2.050e+02-1.073e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 5.280e+02 2.300e+01 3.090e+02-1.144e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 3.830e+02 1.752e+01 2.990e+02-1.202e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 1.000e+00 1.000e+00 0.000e+00 8.250e+01 7.016e+01 1.560e+01-1.060e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 0.000e+00 0.000e+00 8.250e+01 7.587e+01 1.560e+01-9.051e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 9.690e+01 7.519e+01 1.700e+01-9.461e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 9.820e+01 7.594e+01 1.970e+01-9.192e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 1.690e+02 6.705e+01 2.540e+01-9.221e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 2.210e+02 6.473e+01 3.810e+01-9.507e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.980e+02 7.124e+01 4.590e+01-9.583e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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```
1.148e+04 0.000e+00 0.000e+00 0.000e+00 2.620e+02 6.778e+01 7.340e+01-9.801e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 2.950e+02 7.122e+01 9.430e+01-1.006e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 5.310e+02 6.160e+01 1.310e+02-1.088e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 6.110e+02 5.293e+01 1.500e+02-1.067e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 4.470e+02 2.528e+01 2.270e+02-1.136e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 4.250e+02 2.397e+01 2.060e+02-1.201e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 9.110e+01 7.234e+01 1.290e+01-9.358e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 9.550e+01 7.553e+01 1.630e+01-9.828e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 1.310e+02 7.874e+01 1.910e+01-9.173e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 1.270e+02 7.709e+01 2.240e+01-9.583e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 1.900e+02 7.012e+01 4.110e+01-9.415e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 2.000e+02 7.230e+01 4.020e+01-9.435e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 2.530e+02 7.001e+01 5.300e+01-9.528e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 3.500e+02 7.044e+01 8.020e+01-9.654e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 4.730e+02 7.491e+01 1.210e+02-9.907e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 5.990e+02 6.882e+01 1.590e+02-1.072e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 9.680e+02 4.340e+01 1.660e+02-1.036e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 8.560e+02 2.904e+01 2.790e+02-1.106e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.875e+03 0.000e+00 0.000e+00 0.000e+00 9.610e+01 7.744e+01 1.210e+01-9.085e+01
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3.516e+03 0.000e+00 0.000e+00 0.000e+00 1.710e+02 6.766e+01 2.930e+01-9.642e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.920e+02 7.292e+01 3.530e+01-9.466e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 2.350e+02 7.289e+01 4.240e+01-9.542e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 3.090e+02 7.628e+01 6.940e+01-9.706e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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3.030e+04 0.000e+00 0.000e+00 0.000e+00 9.520e+02 5.510e+01 1.480e+02-1.042e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 7.920e+02 2.664e+01 2.330e+02-1.111e+02
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6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.590e+02 6.988e+01 3.730e+01-9.665e+01
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.810e+02 7.056e+01 2.890e+01-9.687e+01
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 7.170e+01 8.157e+01 1.050e+01-9.184e+01
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2.304e+04 0.000e+00 0.000e+00 0.000e+00 4.800e+02 6.288e+01 9.180e+01-1.028e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 6.910e+02 5.404e+01 1.090e+02-1.049e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 7.050e+02 2.165e+01 1.940e+02-1.121e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 5.810e+02 4.280e+00 1.860e+02-1.225e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 5.790e+01 7.264e+01 1.250e+01-9.874e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 1.000e+00 0.000e+00 4.130e+01 7.877e+01 5.830e+00-9.200e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 3.490e+01 8.380e+01 9.380e+00-9.325e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 3.910e+01 8.337e+01 1.250e+01-9.508e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 4.660e+01 8.203e+01 1.200e+01-9.897e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 6.790e+01 7.784e+01 2.430e+01-9.093e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 8.540e+01 7.926e+01 2.220e+01-9.457e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 1.420e+02 8.784e+01 3.880e+01-9.728e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.810e+02 6.815e+01 5.460e+01-9.803e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.470e+02 5.943e+01 6.810e+01-1.028e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 3.220e+02 5.127e+01 7.590e+01-1.091e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.750e+02 2.087e+01 1.650e+02-1.140e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.960e+02 2.300e-01 1.050e+02-1.241e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
```

```
     DATASET
1.219e+03 1.000e+00 0.000e+00 0.000e+00 3.030e+01 8.502e+01 6.060e+00-8.858e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 2.760e+01 8.125e+01 6.060e+00-9.145e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 3.600e+01 8.203e+01 7.610e+00-9.381e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 3.750e+01 8.211e+01 8.920e+00-9.002e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 4.530e+01 7.903e+01 1.050e+01-9.324e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 7.400e+01 7.926e+01 1.670e+01-9.424e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 7.440e+01 7.115e+01 2.070e+01-9.448e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 9.140e+01 5.836e+01 3.610e+01-9.604e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.670e+02 7.169e+01 4.770e+01-9.739e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.560e+02 6.359e+01 6.360e+01-1.022e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 3.400e+02 5.342e+01 7.550e+01-1.041e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.910e+02 2.110e+01 1.330e+02-1.122e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 3.200e+02 1.930e+00 1.510e+02-1.227e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 1.180e+01 8.546e+01 3.100e+00-9.084e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 1.000e+00 0.000e+00 2.058e+01 7.461e+01 5.590e+00-9.059e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.780e+01 8.194e+01 7.390e+00-9.498e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 2.840e+01 8.091e+01 7.440e+00-9.253e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 3.590e+01 8.047e+01 8.980e+00-9.446e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 5.510e+01 7.616e+01 1.870e+01-9.124e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 6.110e+01 6.313e+01 1.900e+01-9.309e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 1.340e+02 5.622e+01 3.410e+01-9.377e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.340e+02 6.616e+01 6.090e+01-1.001e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 1.880e+02 6.298e+01 5.900e+01-1.026e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 2.550e+02 5.162e+01 7.320e+01-1.031e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.060e+02 2.283e+01 1.450e+02-1.142e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.420e+02 1.100e+00 1.400e+02-1.233e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 5.690e+01 7.691e+01 9.650e+00-9.163e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
```

```
1.875e+03 0.000e+00 0.000e+00 0.000e+00 3.210e+01 8.675e+01 5.430e+00-9.186e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 4.350e+01 8.378e+01 7.560e+00-9.114e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 4.330e+01 8.419e+01 7.960e+00-9.229e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 5.290e+01 7.832e+01 8.790e+00-9.000e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 8.080e+01 7.633e+01 1.600e+01-9.307e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 1.000e+00 0.000e+00 1.020e+02 7.645e+01 2.070e+01-9.626e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 2.210e+02 7.681e+01 3.430e+01-9.561e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 2.630e+02 6.218e+01 5.190e+01-9.826e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.700e+02 6.280e+01 5.810e+01-9.959e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 4.200e+02 5.233e+01 8.060e+01-1.046e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 4.890e+02 2.215e+01 1.460e+02-1.111e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 4.160e+02 4.670e+00 1.720e+02-1.212e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 1.620e+01 8.783e+01 4.010e+01-9.401e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 0.000e+00 1.000e+00 0.000e+00 5.240e+01 8.471e+01 6.230e+00-9.378e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 3.000e+01 8.214e+01 8.720e+00-9.233e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 3.310e+01 8.369e+01 1.060e+01-9.021e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 3.600e+01 7.886e+01 1.040e+01-9.183e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 5.600e+01 7.794e+01 1.650e+01-9.432e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 4.730e+01 7.673e+01 2.100e+01-9.417e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 1.360e+02 3.645e+01 3.750e+01-9.515e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 1.430e+02 5.775e+01 9.610e+01-9.205e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 1.760e+02 6.375e+01 6.320e+01-9.906e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 3.050e+02 5.233e+01 1.090e+02-1.128e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.400e+02 2.288e+01 1.950e+02-1.097e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 3.020e+02 9.420e+00 2.260e+02-1.248e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
```

This is the surface IMAGEM data for Phase 3 (7/13/2000). There are 16 sites starting at -16 and ending at +14 m on the Imagme line spaced every 2 m.

DATASET is the header for each new site.

Each frequency in the DATASET has two lines; the second line is not used in this form.

In the first line of each 2 line group,

- The first word is the frequency; the 5th word is the TM apparent resistivity
- The 6th word is the TM phase; the seventh word is the TE apparent resistivity
- The 8th word is the TE phase.

```
     DATASET
1.219e+03 0.000e+00 0.000e+00 0.000e+00 1.870e+02 7.107e+01 8.630e+01-1.088e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 2.650e+02 6.894e+01 6.630e+01-1.008e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 3.000e+02 6.743e+01 6.790e+01-9.425e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 4.350e+02 7.626e+01 7.970e+01-9.169e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 1.000e+00 0.000e+00 0.000e+00 3.070e+02 6.070e+01 1.140e+02-9.272e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 4.000e+02 5.827e+01 2.260e+02-9.480e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 4.340e+02 6.129e+01 1.810e+02-9.717e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.148e+04 0.000e+00 0.000e+00 0.000e+00 5.950e+02 5.990e+01 4.470e+02-1.017e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.514e+04 0.000e+00 0.000e+00 0.000e+00 5.580e+02 5.598e+01 4.700e+02-1.041e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.304e+04 0.000e+00 0.000e+00 0.000e+00 9.880e+02 3.230e+01 5.230e+02-1.139e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 9.460e+02 2.829e+01 5.440e+02-1.136e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 5.430e+02-4.800e-01 6.980e+02-1.228e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 5.460e+02-7.050e+00 7.080e+02-1.313e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.875e+03 0.000e+00 0.000e+00 0.000e+00 2.070e+02 7.103e+01 5.910e+01-9.273e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.250e+02 7.096e+01 6.770e+01-9.235e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 2.920e+02 7.427e+01 6.320e+01-8.905e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 3.490e+02 6.923e+01 7.690e+01-9.378e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 3.740e+02 6.402e+01 1.320e+02-9.557e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 5.120e+02 5.865e+01 1.380e+02-9.563e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.875e+03 1.000e+00 0.000e+00 0.000e+00 1.110e+02 7.168e+01 2.505e+01-1.019e+02
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 1.490e+02 7.255e+01 2.420e+01-9.079e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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6.694e+04 0.000e+00 0.000e+00 0.000e+00 4.340e+02-2.000e-01 2.400e+02-1.242e+02
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.810e+02 7.160e+01 2.950e+01-9.258e+01
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3.516e+03 0.000e+00 0.000e+00 0.000e+00 9.630e+01 7.572e+01 1.660e+01-9.174e+01
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.450e+02 7.201e+01 2.540e+01-9.300e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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3.030e+04 0.000e+00 0.000e+00 0.000e+00 5.160e+02 4.722e+01 1.090e+02-1.052e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 4.230e+02 2.135e+01 1.930e+02-1.117e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 3.190e+02 6.300e-01 1.880e+02-1.216e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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5.132e+03 0.000e+00 0.000e+00 0.000e+00 1.240e+02 7.542e+01 2.580e+01-9.335e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.703e+03 0.000e+00 0.000e+00 0.000e+00 1.450e+02 7.083e+01 3.200e+01-9.643e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.514e+04 0.000e+00 0.000e+00 0.000e+00 2.410e+02 7.182e+01 8.760e+01-1.041e+02
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2.304e+04 0.000e+00 0.000e+00 0.000e+00 3.550e+02 5.822e+01 9.850e+01-1.047e+02
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 4.520e+02 1.492e+01 1.870e+02-1.138e+02
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2.414e+03 0.000e+00 0.000e+00 0.000e+00 7.060e+01 7.842e+01 1.110e+01-9.259e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 4.110e+01 7.724e+01 9.030e+00-9.000e+01
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2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.100e+02 6.539e+01 6.270e+01-9.643e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.030e+04 0.000e+00 0.000e+00 0.000e+00 2.960e+02 5.571e+01 6.400e+01-9.882e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.310e+02 6.170e+00 1.800e+02-1.200e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
1.875e+03 1.000e+00 0.000e+00 0.000e+00 2.110e+01 8.226e+01 5.470e+00-1.023e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.414e+03 0.000e+00 0.000e+00 0.000e+00 2.480e+01 8.232e+01 7.540e+00-9.214e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
2.719e+03 0.000e+00 0.000e+00 0.000e+00 1.970e+01 8.817e+01 6.940e+00-8.930e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
3.516e+03 0.000e+00 0.000e+00 0.000e+00 2.870e+01 8.187e+01 8.890e+00-8.975e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.132e+03 0.000e+00 0.000e+00 0.000e+00 3.730e+01 6.642e+01 1.300e+01-9.098e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.148e+04 0.000e+00 0.000e+00 0.000e+00 8.940e+01 7.265e+01 3.070e+01-8.566e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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1.875e+03 0.000e+00 1.000e+00 0.000e+00 2.614e+01 8.329e+01 4.670e+00-8.812e+01
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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2.304e+04 0.000e+00 0.000e+00 0.000e+00 2.610e+02 7.155e+01 5.350e+01-9.934e+01
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
5.076e+04 0.000e+00 0.000e+00 0.000e+00 3.670e+02 2.808e+01 1.510e+02-1.023e+02
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6.694e+04 0.000e+00 0.000e+00 0.000e+00 2.820e+02 1.061e+01 1.530e+02-1.115e+02
0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
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