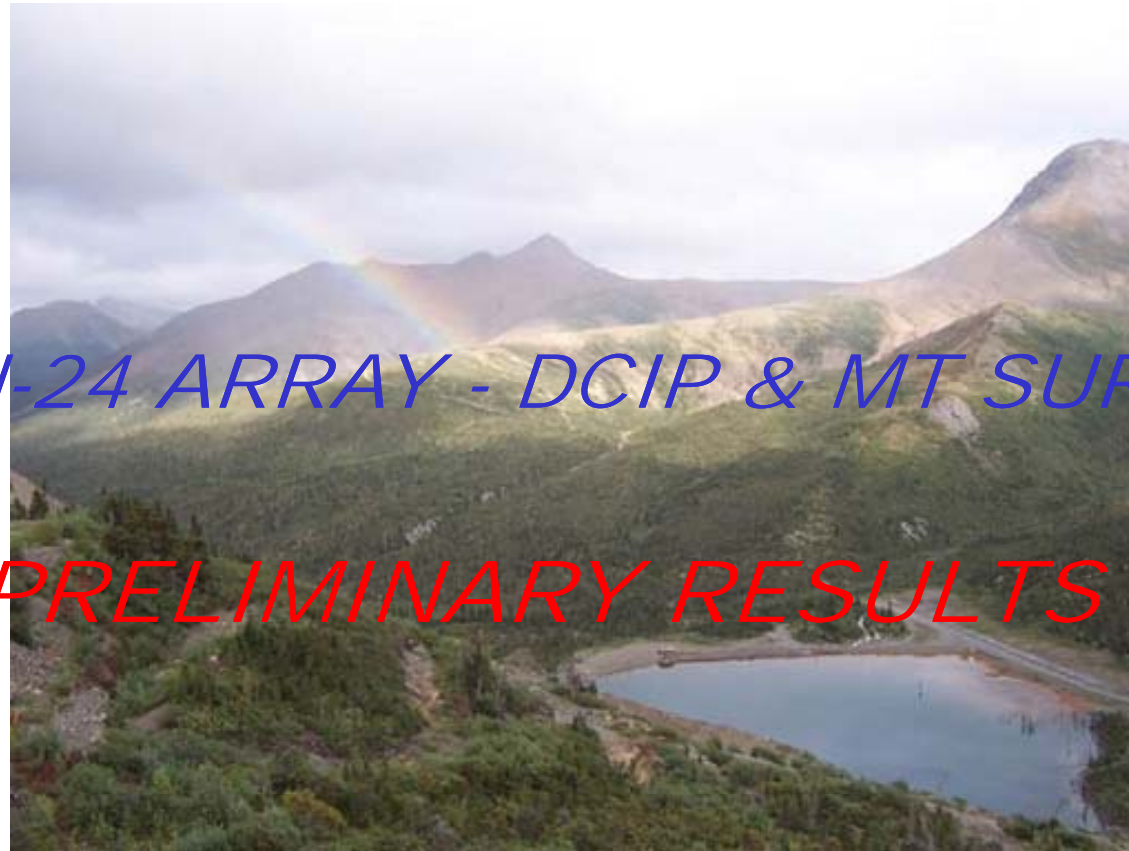


*KETZA PROJECT, KETZA RIVER HOLDINGS LTD
QUANTEC PROJECT CA00681T*



TITAN-24 ARRAY - DCIP & MT SURVEY

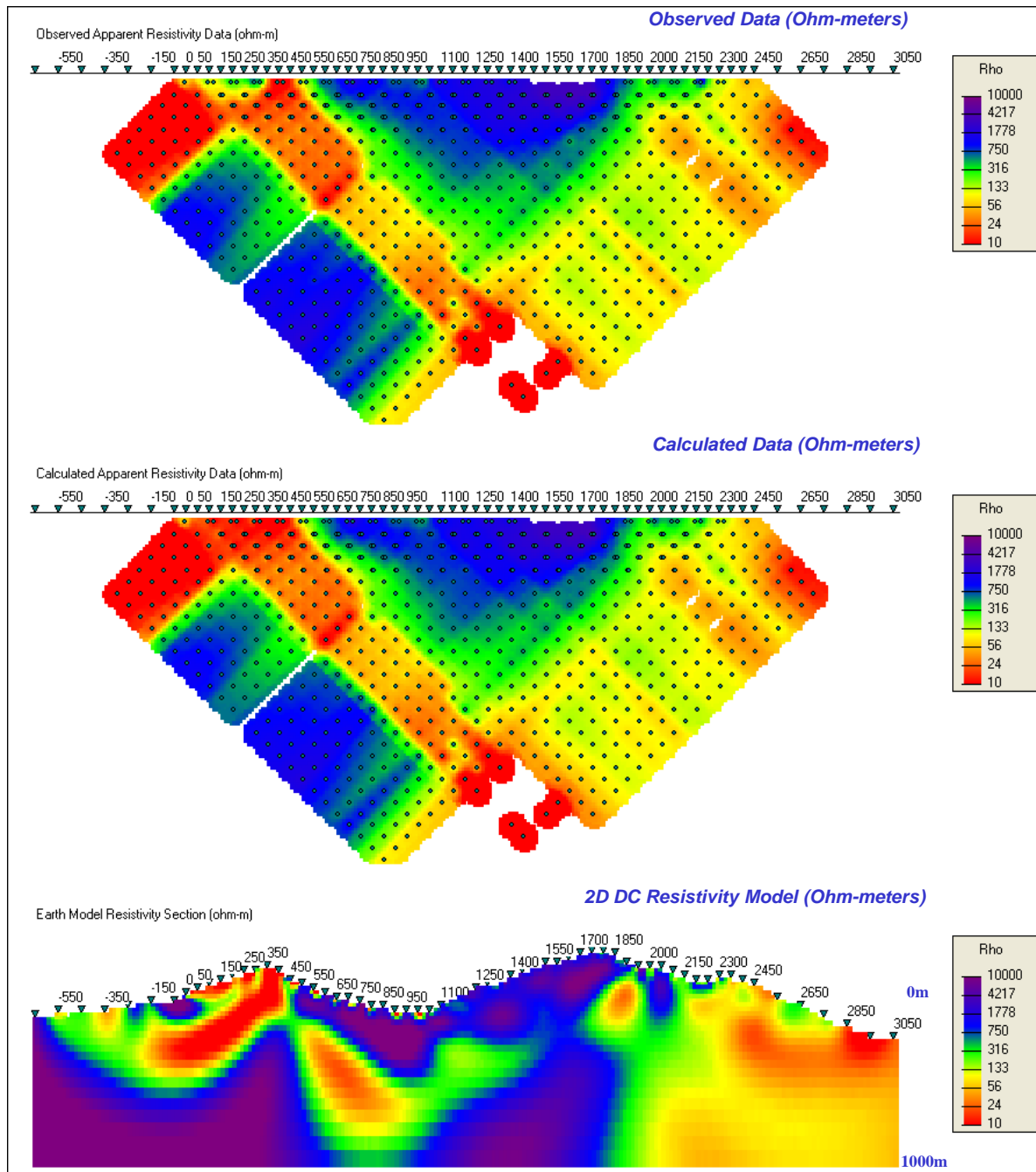
PRELIMINARY RESULTS

L600N : 2D DCIP and MT Inversion Models



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K. Killin, H.B.Sc. Project Manager
Quantec Geoscience Ltd.
August, 2009*

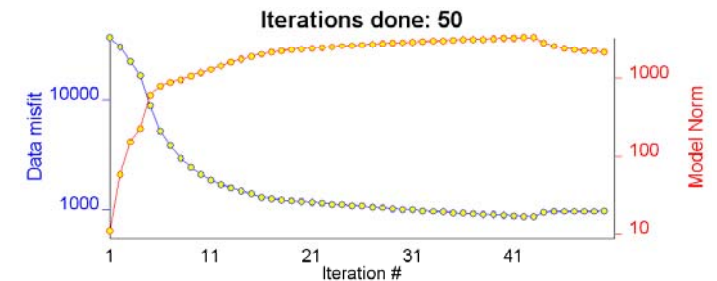
L600N- UBC 2D DC Resistivity Inversion Results (smDC)



Inversion Parameters

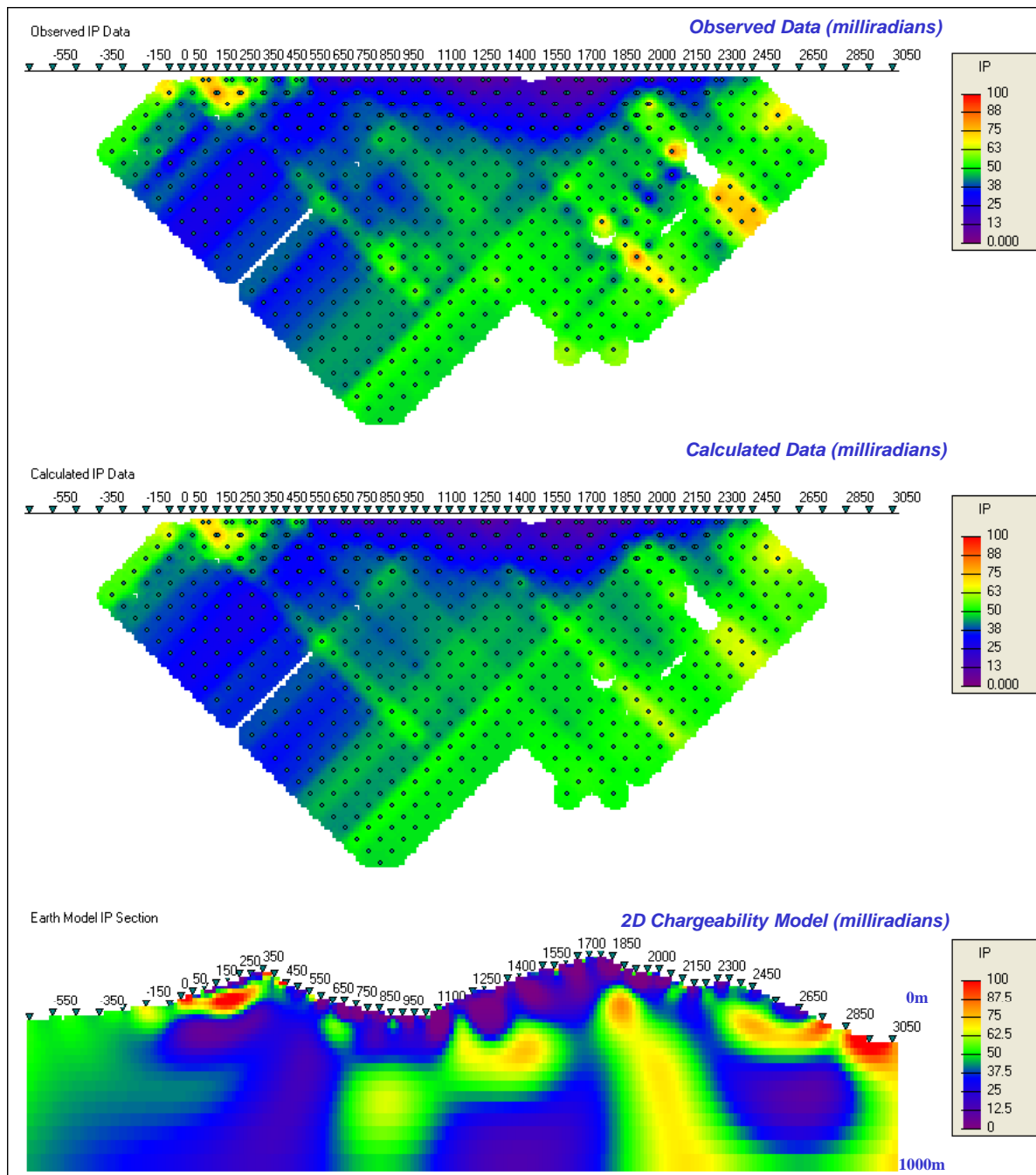
| 50 iter | data misfit | model norm | multiplier |
|---------|-------------|-------------|-------------|
| 0 | 3.99589E+04 | 0.00000E+00 | 0.00000E+00 |
| 1 | 3.78912E+04 | 1.12385E+01 | 2.35267E+01 |
| 47 | 9.75010E+02 | 2.39641E+03 | 4.92492E-01 |
| 48 | 9.75051E+02 | 2.32357E+03 | 4.46131E-01 |
| 49 | 9.75323E+02 | 2.26959E+03 | 4.63785E-01 |
| 50 | 9.78899E+02 | 2.21701E+03 | 4.63786E-01 |

952 number of data



L600N- UBC 2D IP Chargeability Inversion Results (smIP nullcon)

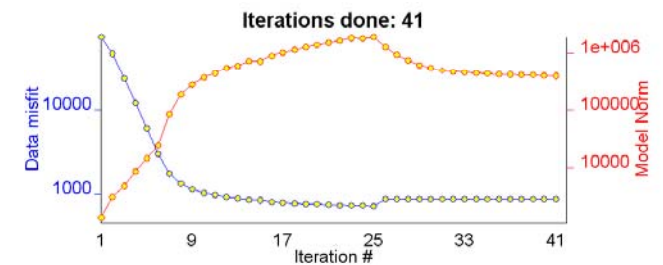
Smooth 2D IP Chargeability Inversion using homogeneous conductivity model



Inversion Parameters

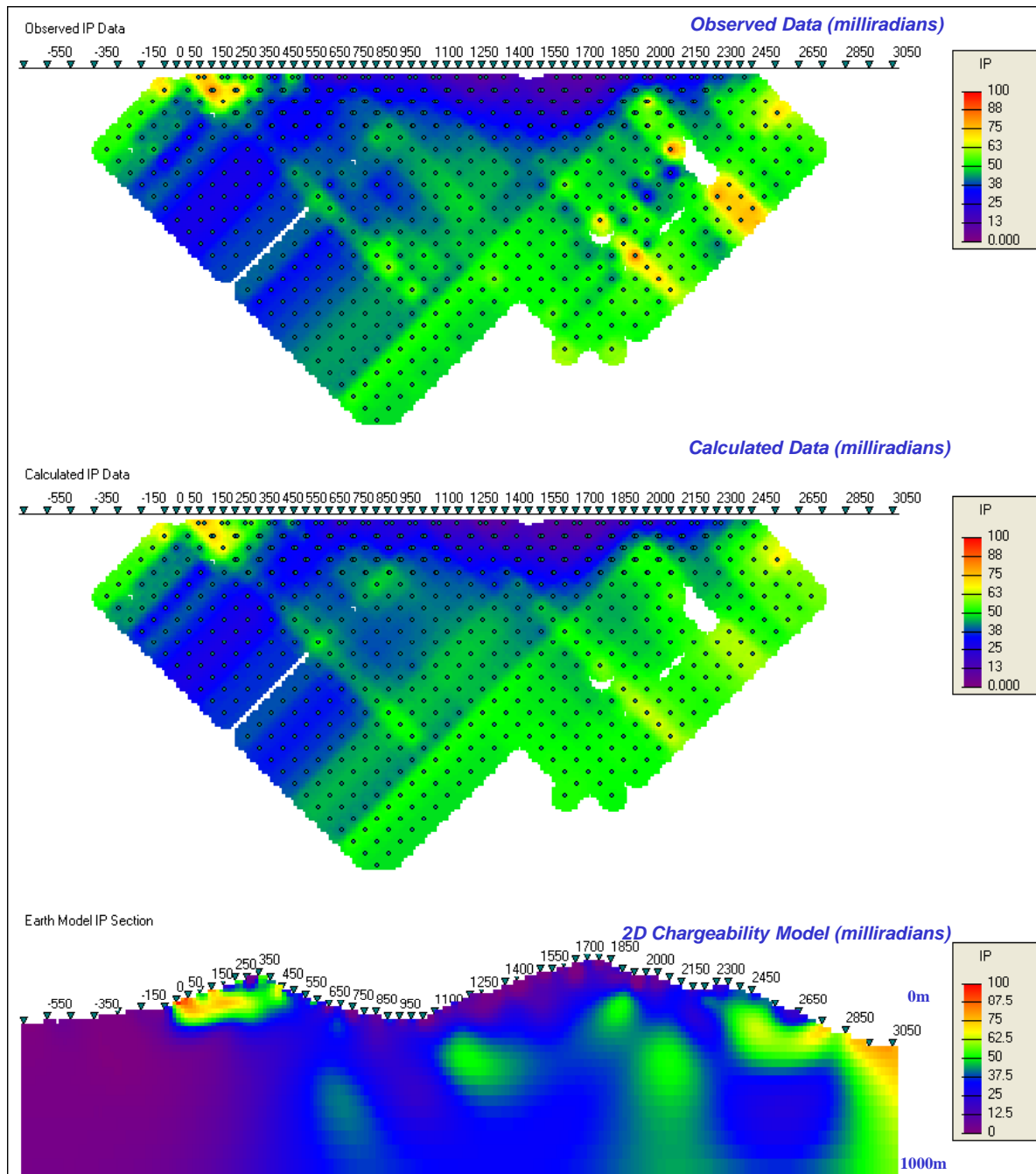
| 41 iter | data misfit | model norm | multiplier |
|---------|-------------|-------------|-------------|
| 0 | 1.35066E+05 | 0.00000E+00 | 0.00000E+00 |
| 1 | 7.49707E+04 | 1.37796E+03 | 2.45227E+02 |
| 2 | 4.80860E+04 | 3.10205E+03 | 2.28801E+01 |
| 39 | 8.67870E+02 | 4.06603E+05 | 7.22398E-04 |
| 40 | 8.67879E+02 | 4.01903E+05 | 7.07171E-04 |
| 41 | 8.67868E+02 | 3.97891E+05 | 7.20319E-04 |

866 number of data



L600N- UBC 2D IP Chargeability Inversion Results (smIP)

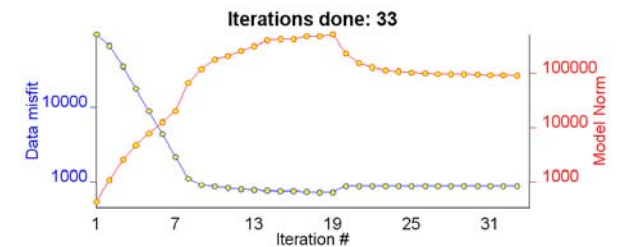
Smooth 2D IP Chargeability Inversion using Titan conductivity model



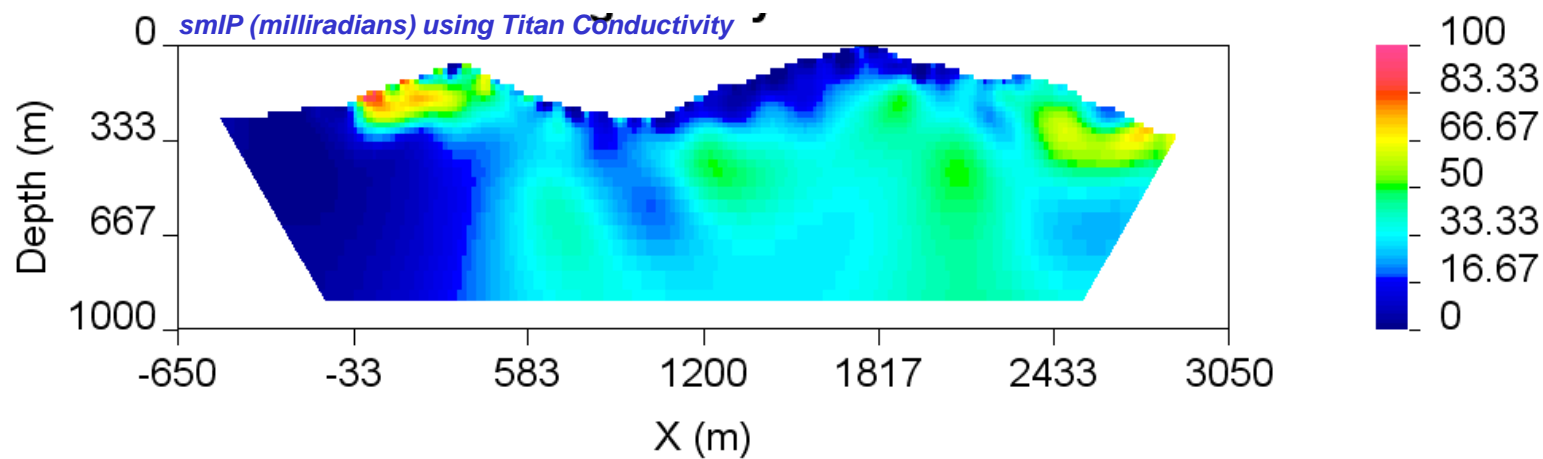
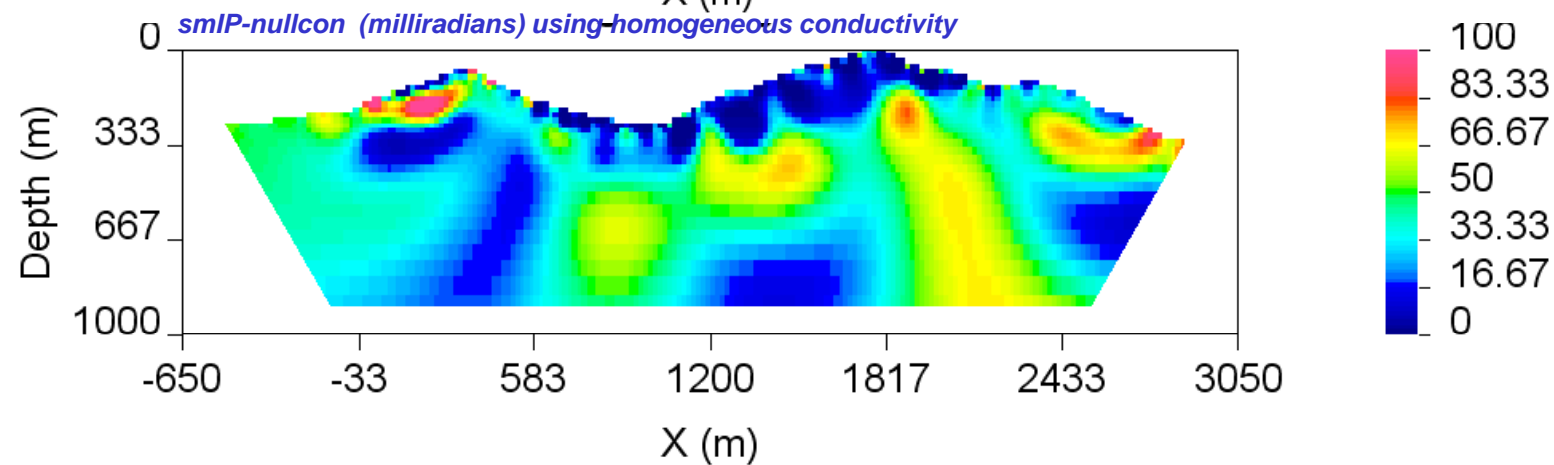
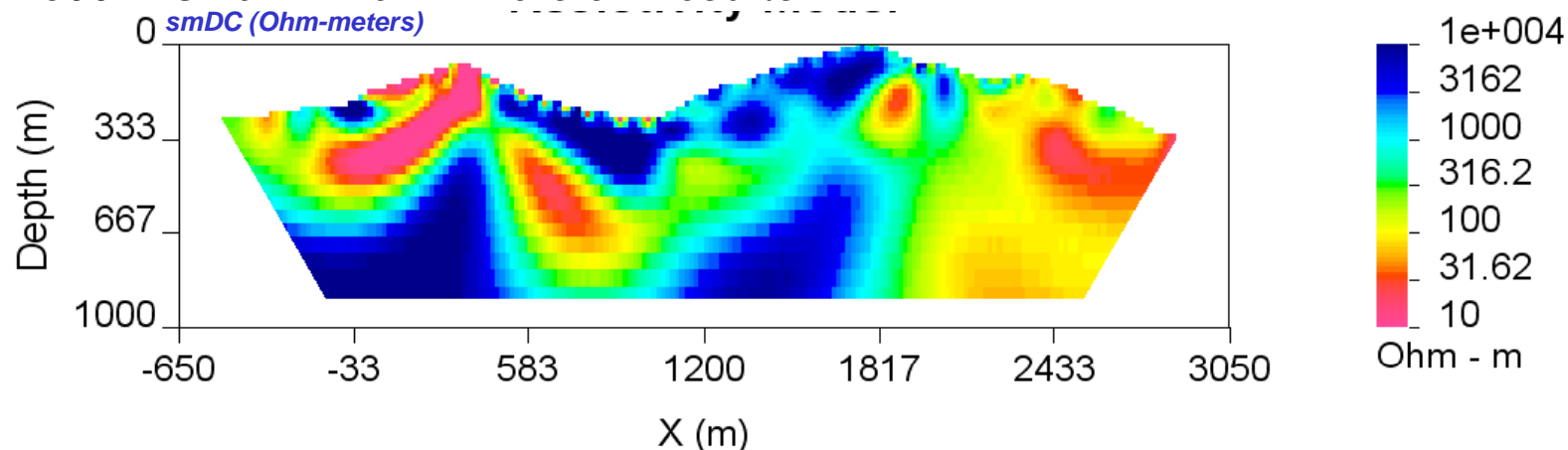
Inversion Parameters

| 33 iter | data misfit | model norm | multiplier |
|---------|-------------|-------------|-------------|
| 0 | 1.35066E+05 | 0.00000E+00 | 0.00000E+00 |
| 1 | 9.17646E+04 | 4.16869E+02 | 3.24620E+02 |
| 2 | 6.52212E+04 | 1.06891E+03 | 4.07865E+01 |
| 31 | 8.69708E+02 | 9.39834E+04 | 2.69366E-03 |
| 32 | 8.69704E+02 | 9.30405E+04 | 2.78153E-03 |
| 33 | 8.69704E+02 | 9.21901E+04 | 2.68634E-03 |

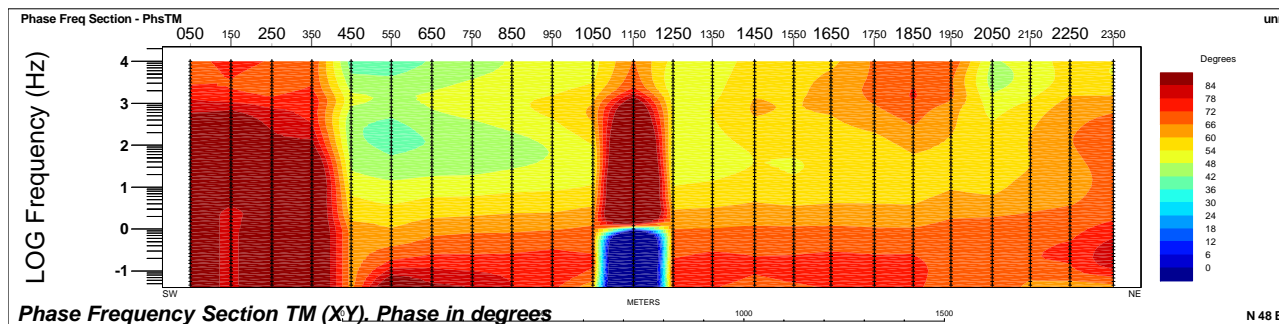
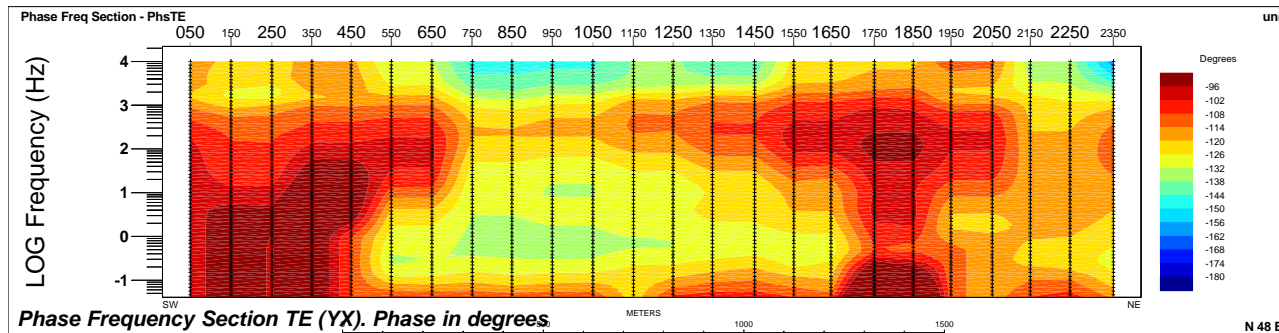
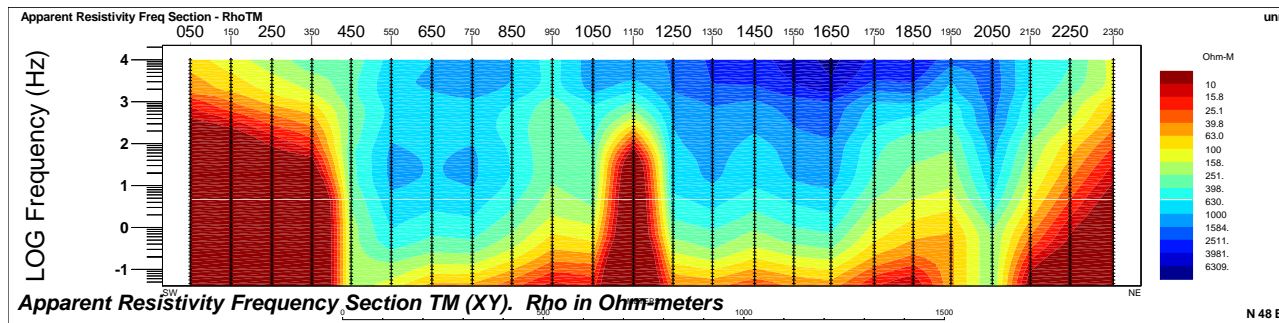
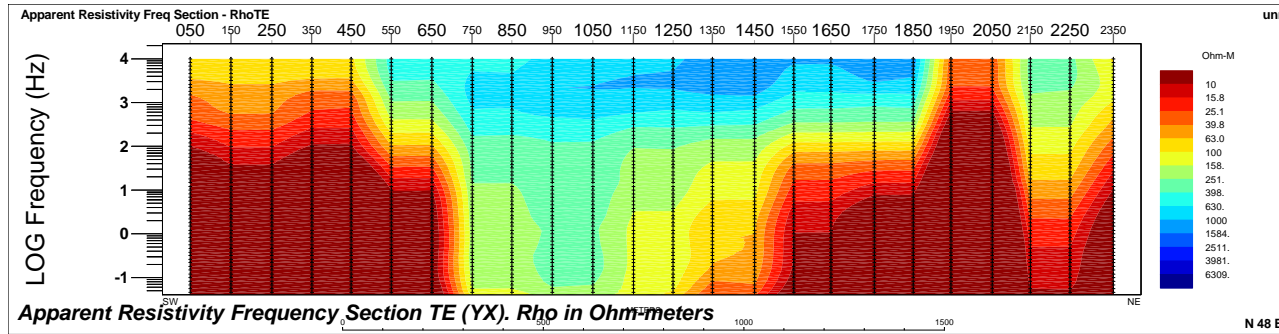
866 number of data



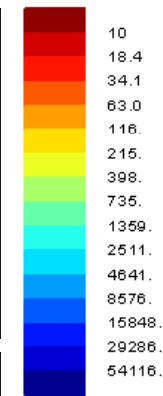
L600N- UBC 2D DCIP Inversion Results



L600N- MT Interpolated Raw Data

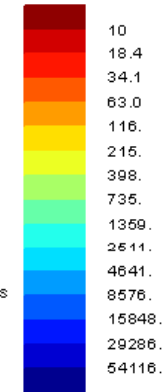


Ohm-M



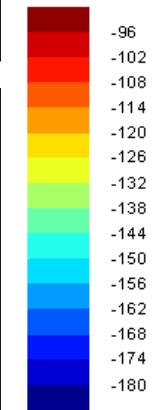
TM (XY) Rho
Inline resistivity

Ohm-M



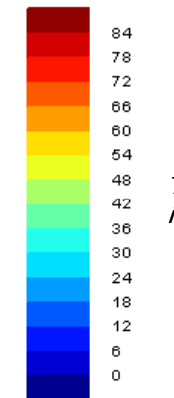
TE (YX) Rho
Crossline resistivity

Degrees



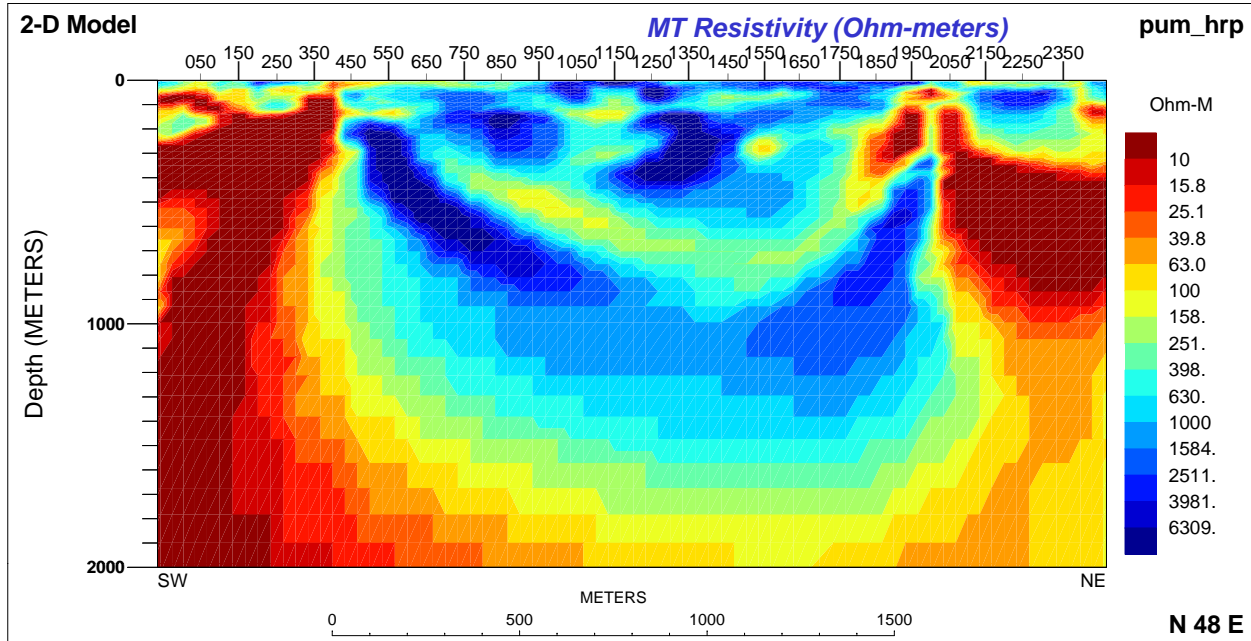
TE (YX) Phs-
crossline phase

Degrees

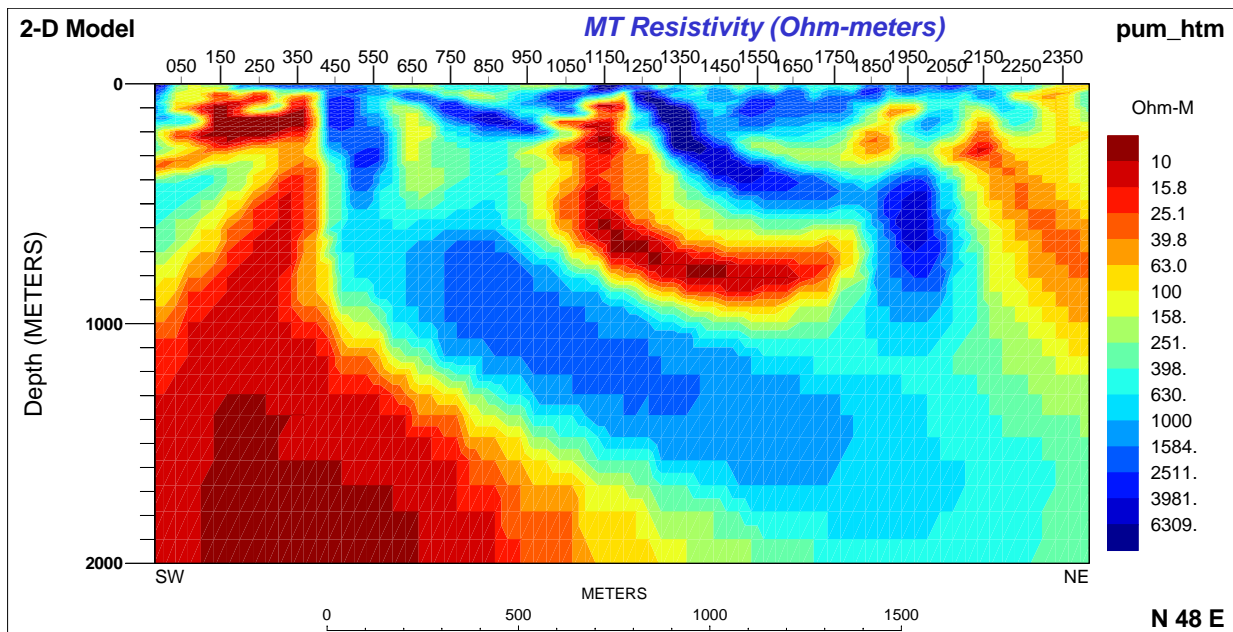


TM (XY) Phs
inline phase

L600N- MT Inversion models



PW Unrotated model from half space resistivity = 1000 Ohm-meters. Data inverted = TM-TE (Phs+Rho)



PW Unrotated model from half space resistivity = 1000 Ohm-meters. Data inverted = TM (Phs+Rho)