



COMPLETE MT SOLUTIONS

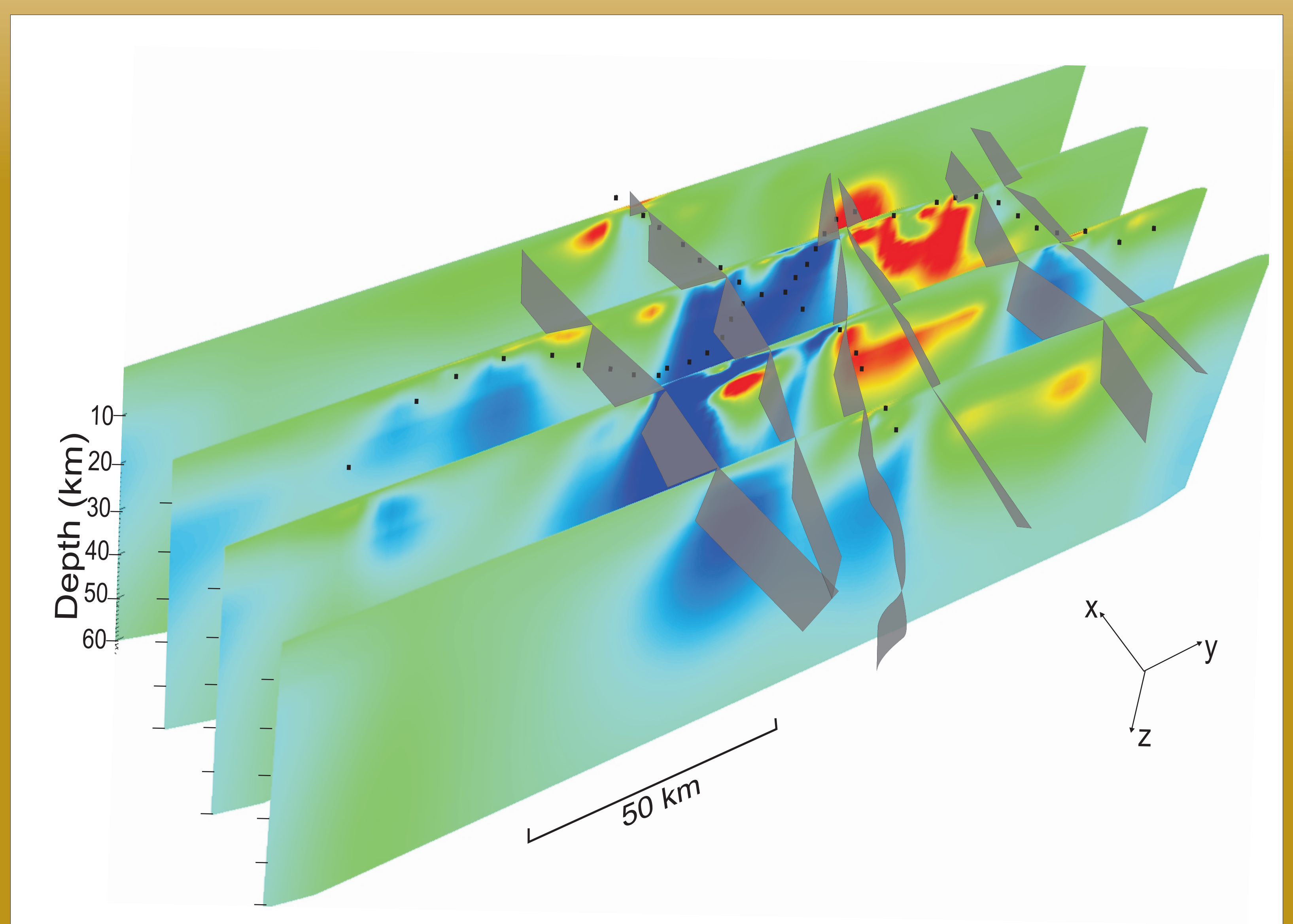
Jessica Spratt: Director of Interpretation



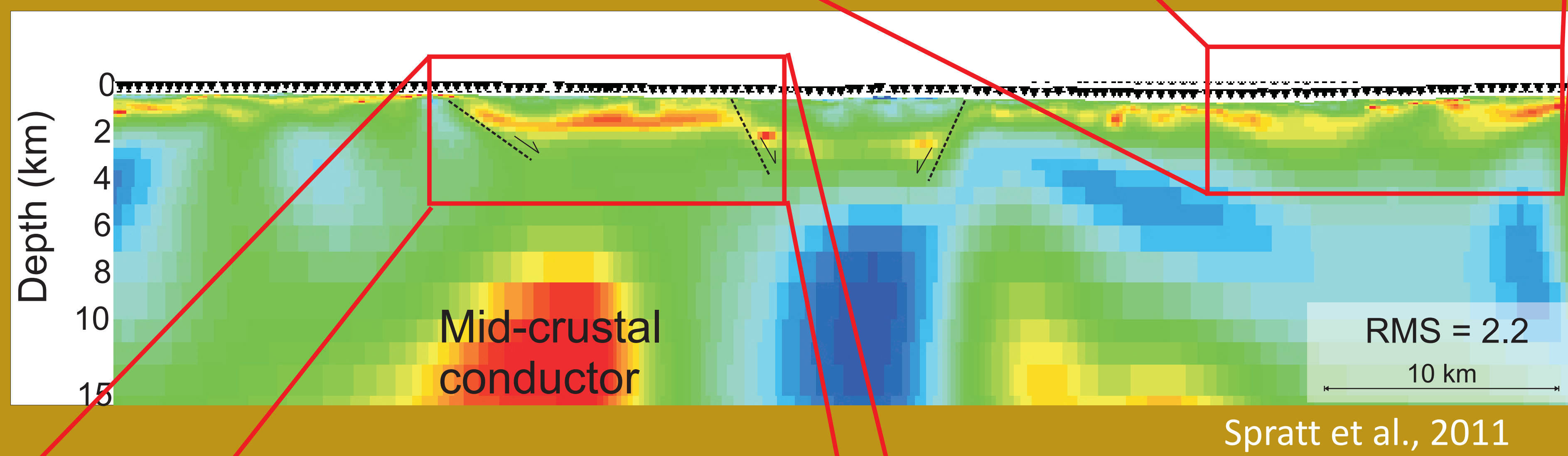
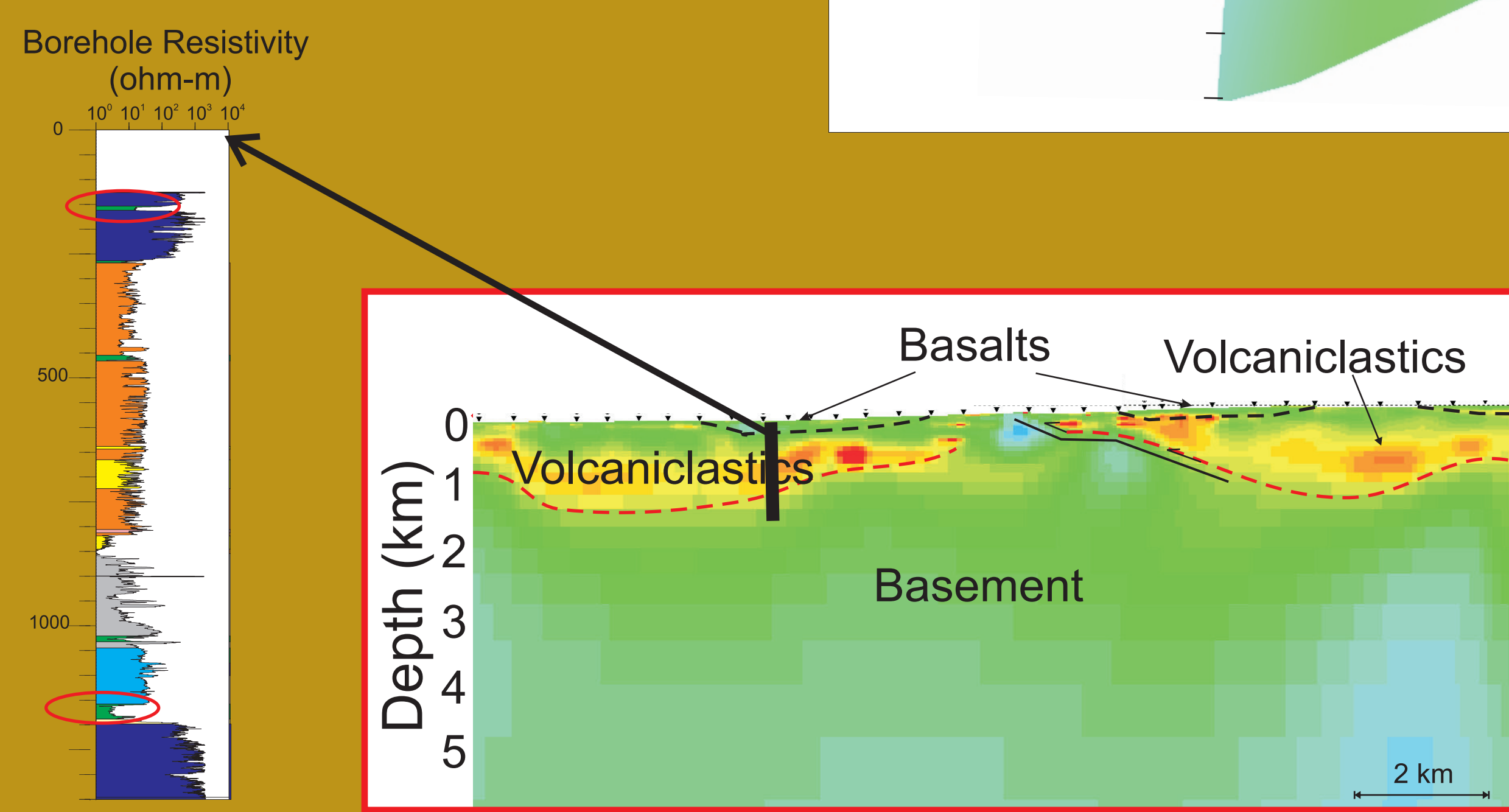
Jessica Spratt studied geology for her first degree at Carleton University (Ontario, Canada) and received an MSc degree from Syracuse University (New York, USA) with a thesis in applied magnetotellurics (MT). She spent several years as an MT surveyor with the Geological Survey of Canada, then with the Dublin Institute for Advanced Studies in Ireland. Since 2006, Jessica has been providing services in all aspects of magnetotellurics as an independent contractor. She has participated in over 25 MT projects worldwide over the past 18 years providing extensive experience in the acquisition, processing, modelling, and interpretation of magnetotelluric data.

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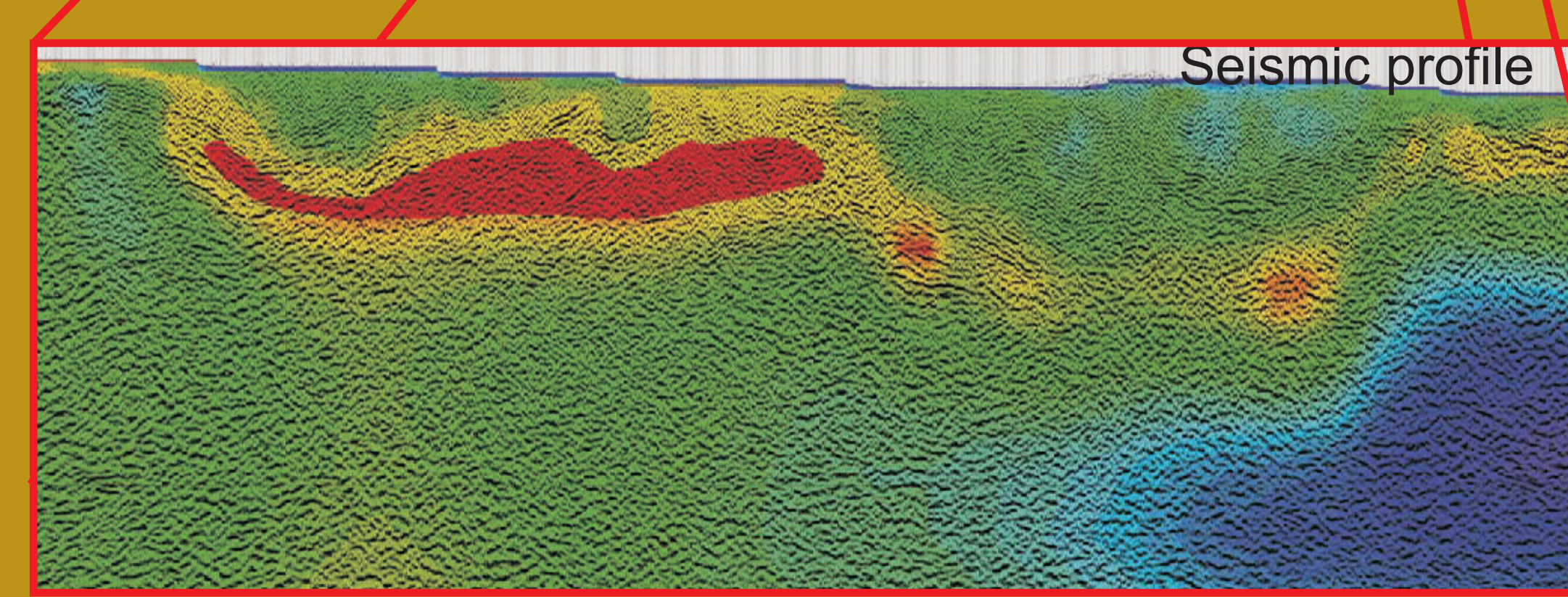
CMTS provides a detailed interpretation reports of the MT results. Where possible CMTS includes scaled maps and cross-sections of the survey area as well as a discussion of the geological structure and tectonic implications of our results.



Modified from Lindsay et al. 2017

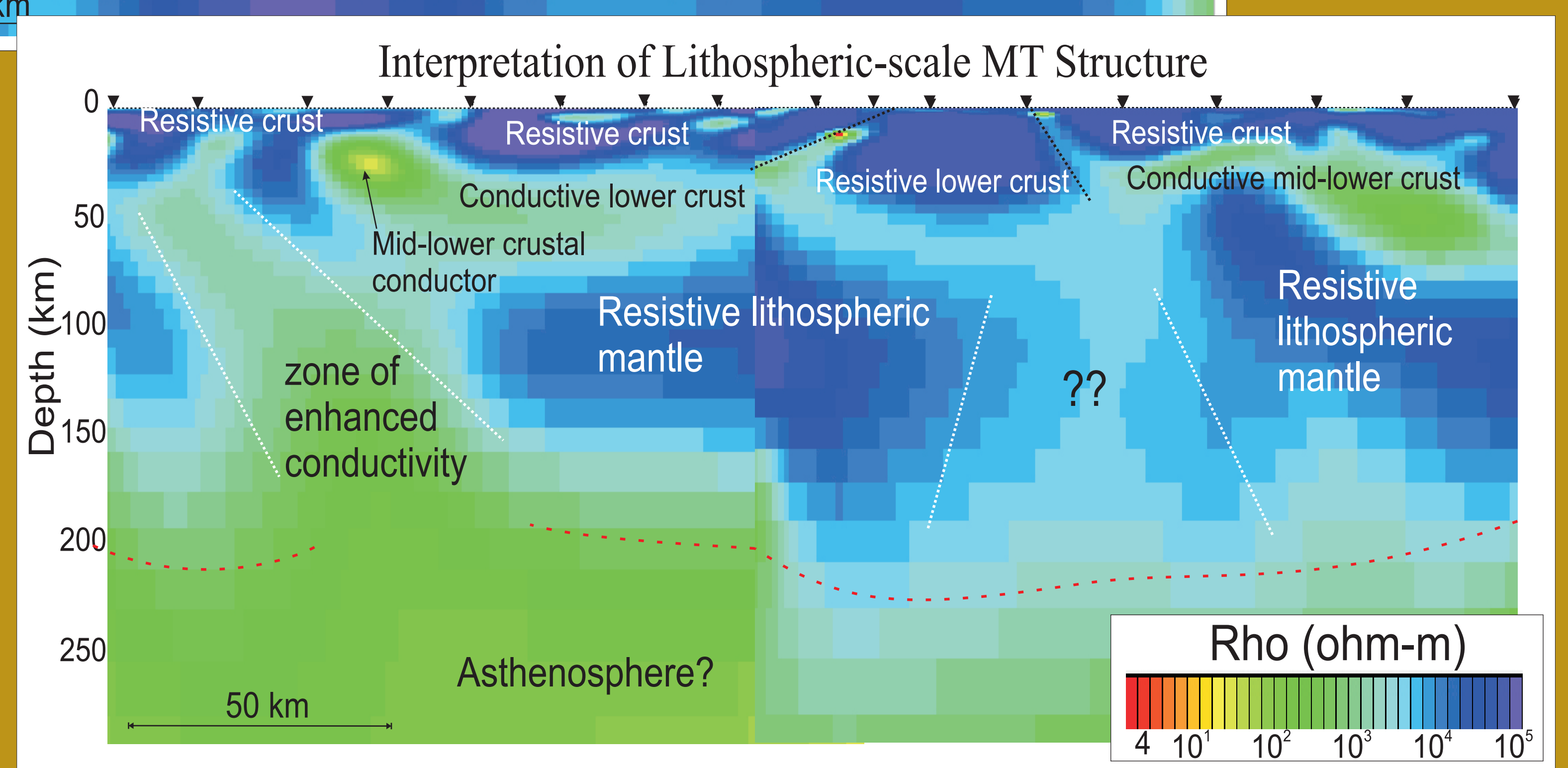
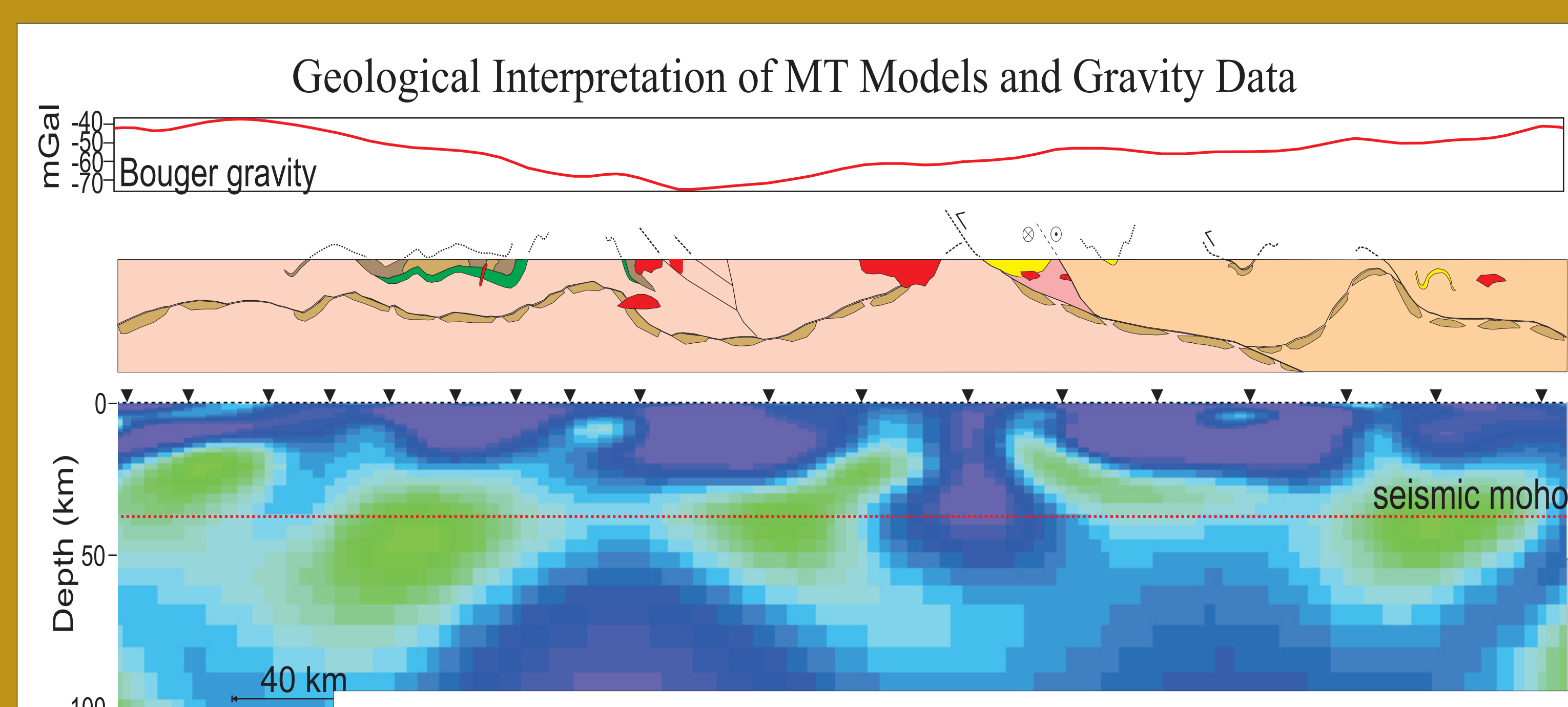


Spratt et al., 2011



Clavert et al., 2011

CMTS utilizes all available information when interpreting the subsurface conductivity structure. Examples may include geological maps, core logs, various geophysical data sets, and borehole measurements.



Spratt et al., 2013

The CMTS team has extensive experience in interpreting MT data acquired worldwide in various geologic settings. CMTS is competent in understanding near-surface localized structure as well as regional crustal- and lithospheric-scale features.

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REFERENCES
Lindsay, M., Spratt, J.E., Occhipinti, S., Aitken, A., Dentith, M., Hollis, J., and Tyler, I. (2017). Identifying mineral prospectivity using magnetotelluric, potential field, and geological data in the east Kimberley, Australia; submitted to GSL Special Publications.
Spratt, J.E., T. Skulski, J.A. Craven, A.G. Jones, D.B. Snyder, and D. Kiyon (2013). Magnetotelluric investigations of the lithosphere beneath the Central Rae Craton, mainland Nunavut; Journal of Geophysical Research, volume 119, issue 3, pg 2415 – 2438, doi: 10.1002/2013JB010221.
Spratt, J.E. And Craven, J.A., (2011): Near Surface and crustal-scale images of the Nechako Basin, British Columbia, Canada, from magnetotelluric investigations; Canadian Journal of Earth Sciences, v. 48:(6), p. 987 – 999.
Calvert, A.J., Hayward, N.E., Spratt, J.E., Craven, J.A., Spence, G., 2011. Seismic reflection constraints on upper crustal structures in the volcanic-covered central Nechako basin, British Columbia; Canadian Journal of Earth Sciences, v. 48:(6), p. 1021-1037.