

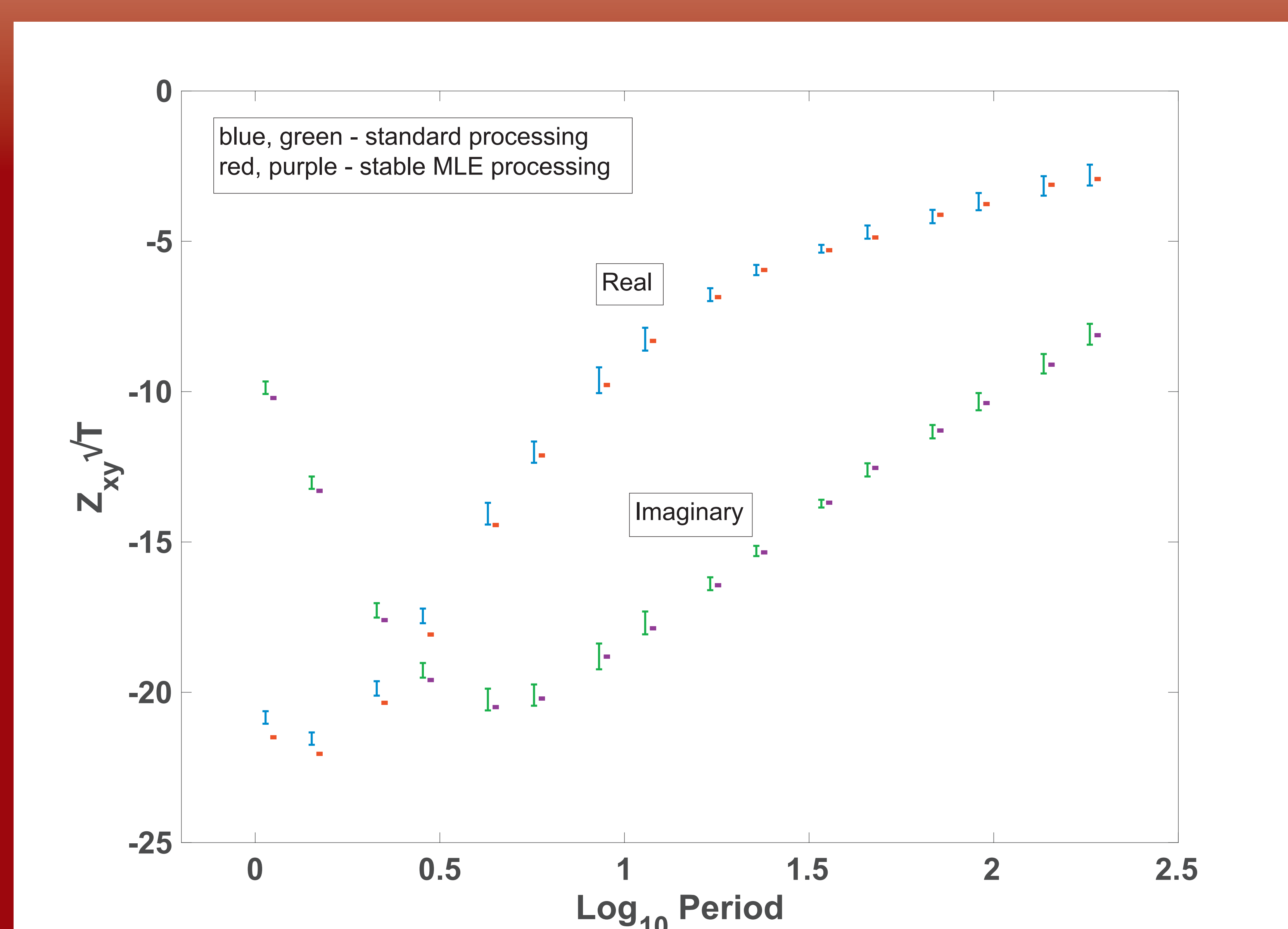
## Alan Chave: Director of Processing / Analysis



Alan Chave is a Senior Scientist at Woods Hole Oceanographic Institution, and holds the Walter A. and Hope Noyes Smith Chair. He has 40 y of experience in electromagnetic geophysics, has published 122 peer-reviewed papers, is the first author on *The Magnetotelluric Method: Theory and Practice*, and holds 3 patents. Chave is a Chartered Statistician, and is the author of a forthcoming book entitled *Computational Statistics for the Earth Sciences*. He introduced robust processing for magnetotelluric data in the 1980s, and has recently developed a new nonlinear maximum likelihood estimator whose performance exceeds earlier methods. Chave also has extensive experience as an expert witness in geophysical patent litigation.

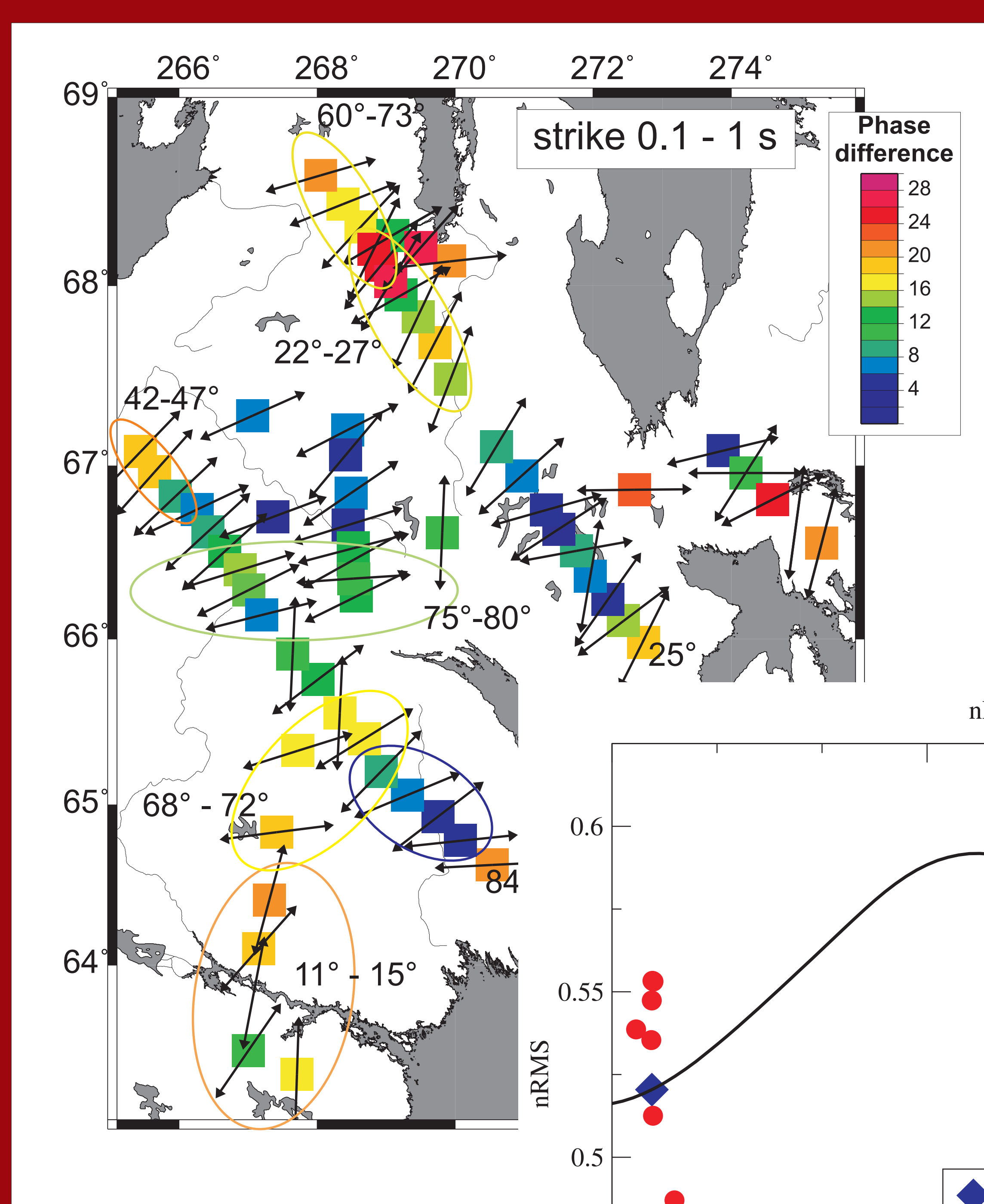
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CMTS generates superior quality MT response curves by implementing advanced proprietary processing and analysis tools developed by the leading experts in this field.

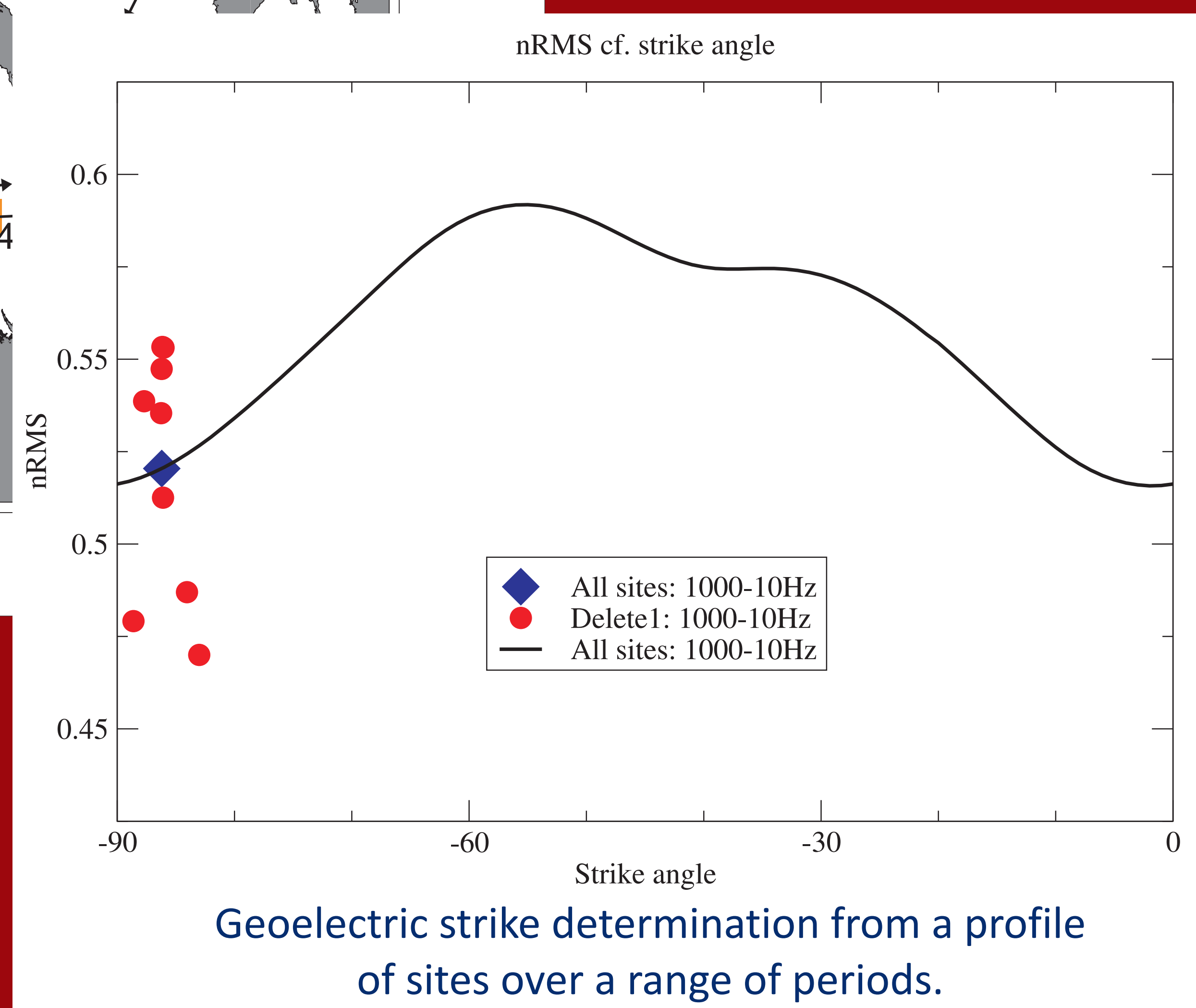


CMTS applies a variety of techniques to assess the quality and reliability of the transfer function estimates including the analysis of:

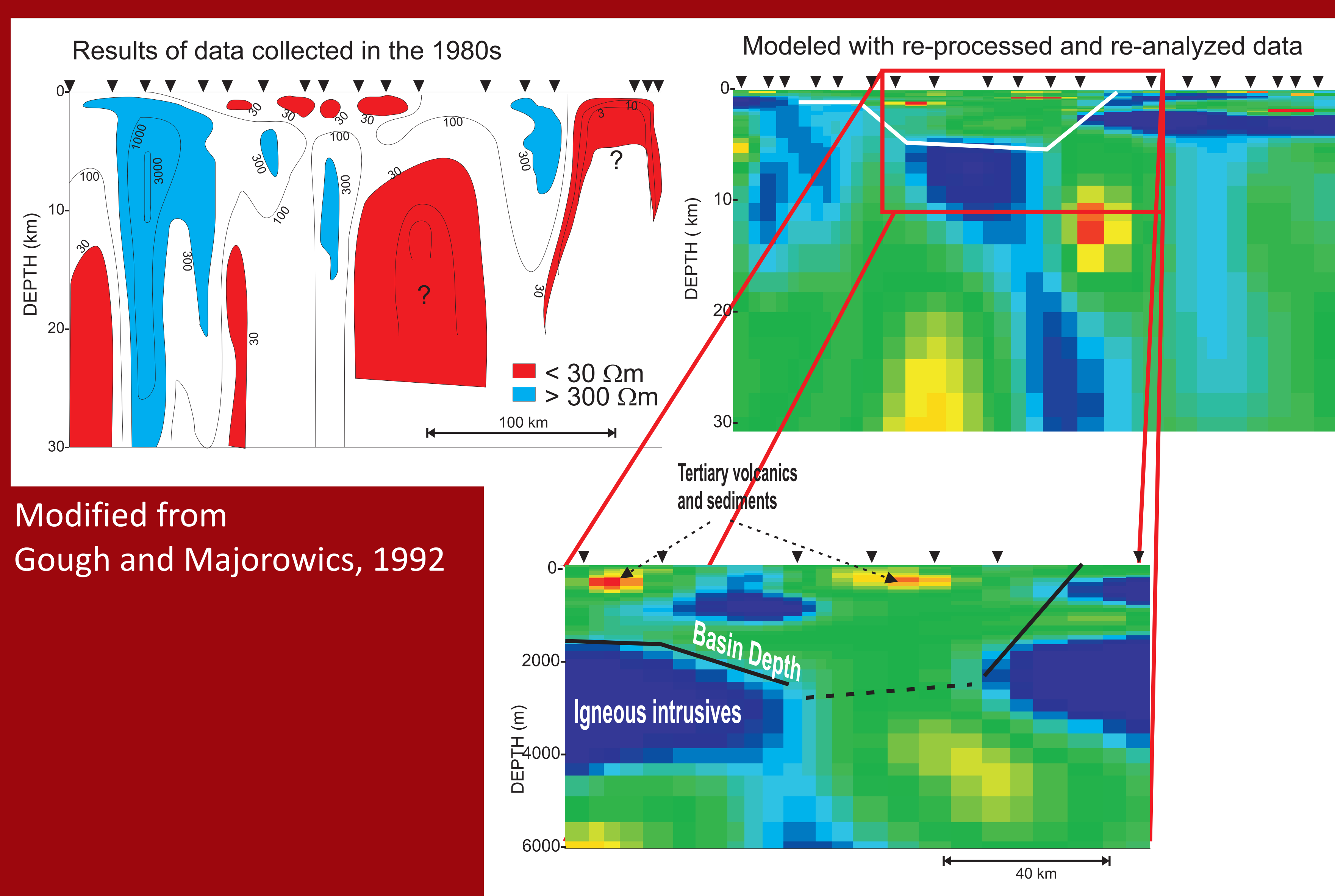
- Statistical significance and reliability
- Internal consistency
- Galvanic distortion effects
- Dimensionality
- Directionality
- Non-uniform source fields



Spratt et al., 2013



CMTS can offer cost effective value by re-processing and re-analyzing existing time series data. By re-inverting and interpreting higher quality MT response curves, our state-of-the-art techniques can provide new understanding of an expensively acquired data set.



Modified from Gough and Majorowicz, 1992

Spratt et al., 2007