



This slide presentation was presented at the May 3, 2004 Coyote Creek Shear velocity Comparison Workshop at the USGS, Menlo Park, CA.

This is an extract from Asten, M.W., and Boore, D.M., eds., Blind comparisons of shear-wave velocities at closely spaced sites in San Jose, California: U.S. Geological Survey Open-File Report 2005-1169. [available on the World Wide Web at <http://pubs.usgs.gov/of/2005/1169/> ].

2005

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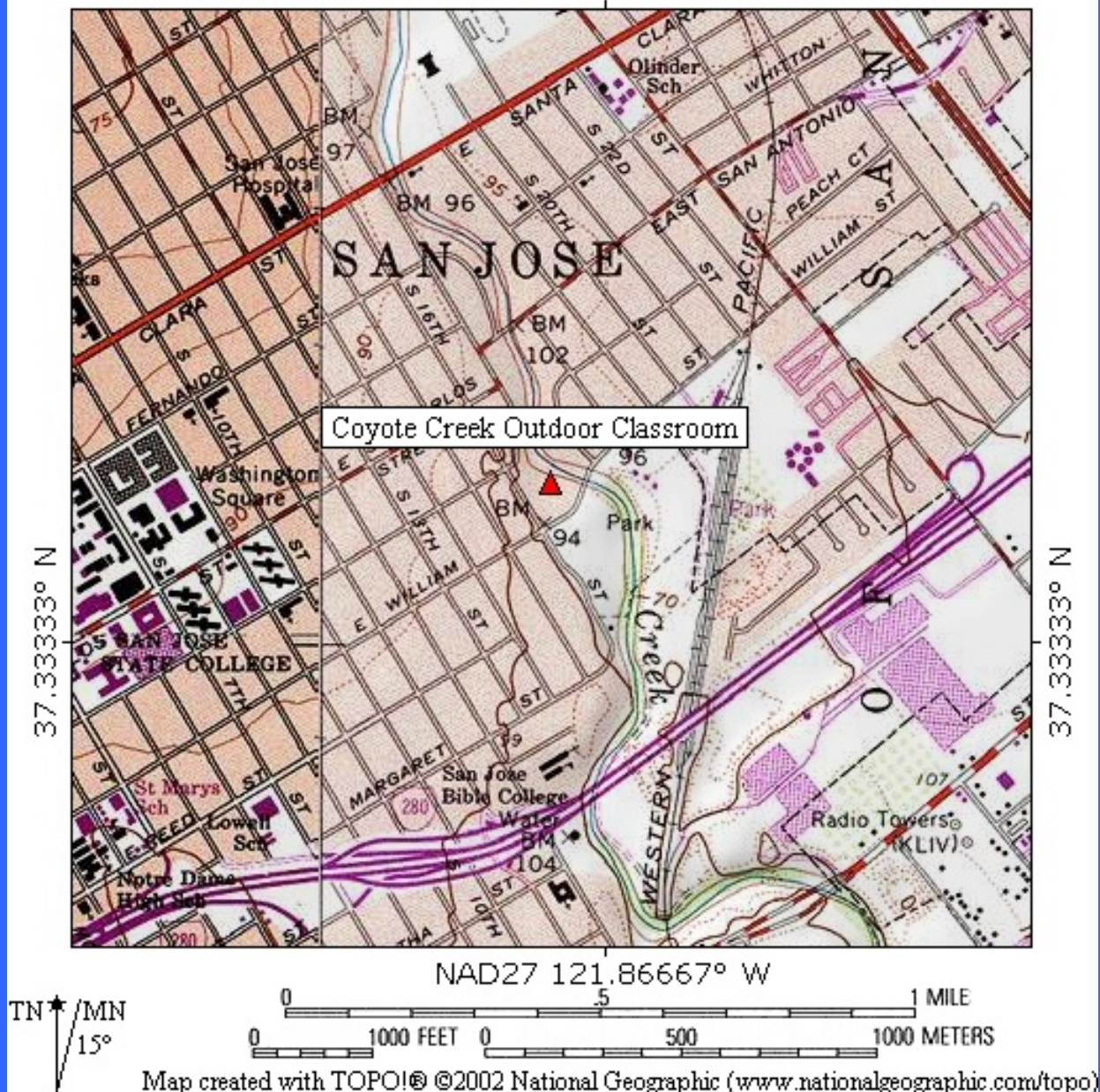
**U.S. DEPARTMENT OF THE INTERIOR**  
**U.S. GEOLOGICAL SURVEY**

# DOWNHOLE SEISMIC SURVEY AT THE COYOTE CREEK BOREHOLE CCOC, USING A SURFACE SHEAR-WAVE HAMMER SOURCE

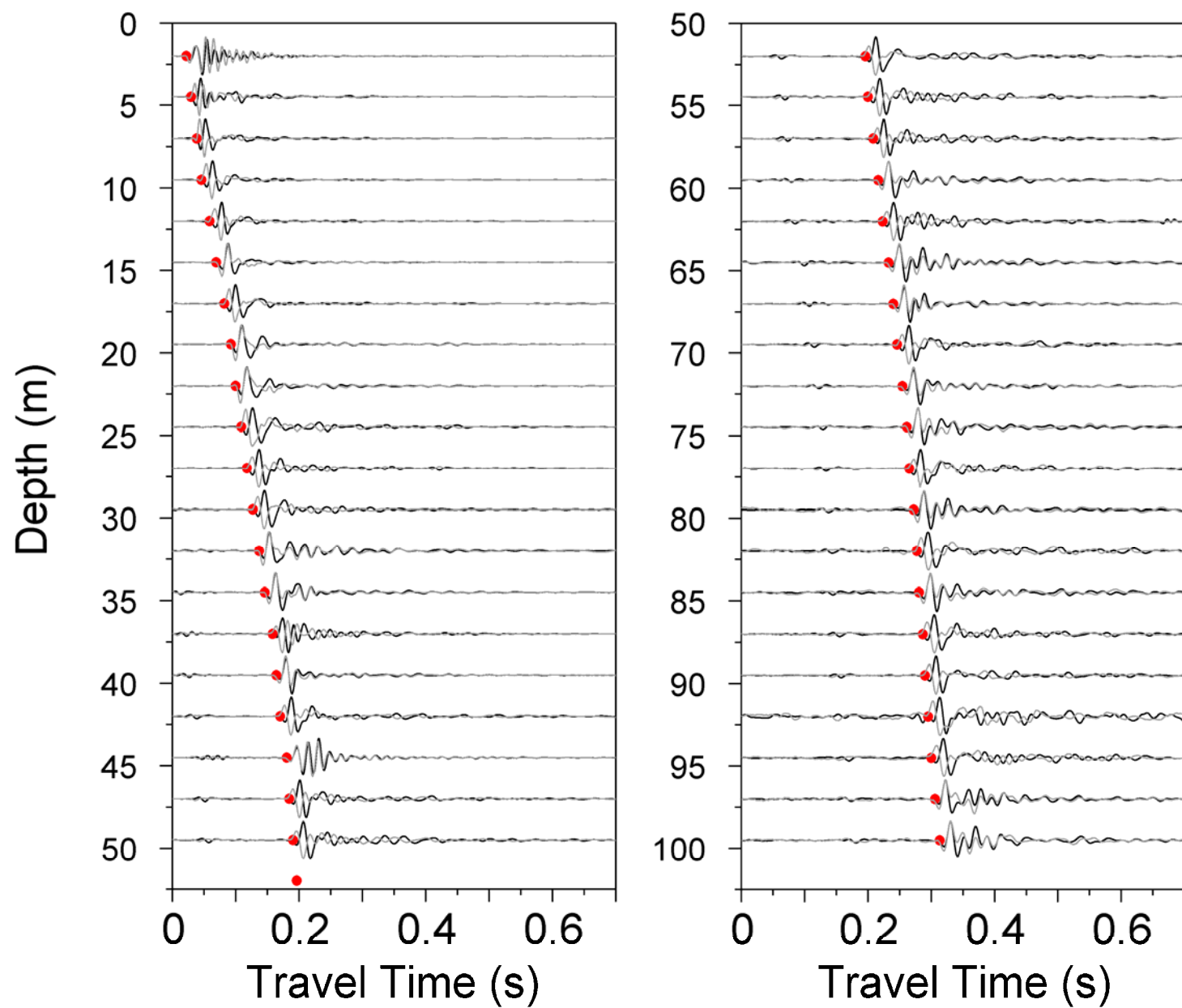
Jim Gibbs, US Geological Survey

Presented at CCOC Workshop, Menlo park, May 2004

TOPO! map printed on 04/23/04 from "California.tpo" and "Untitled.tpg"  
NAD27 121.86667° W

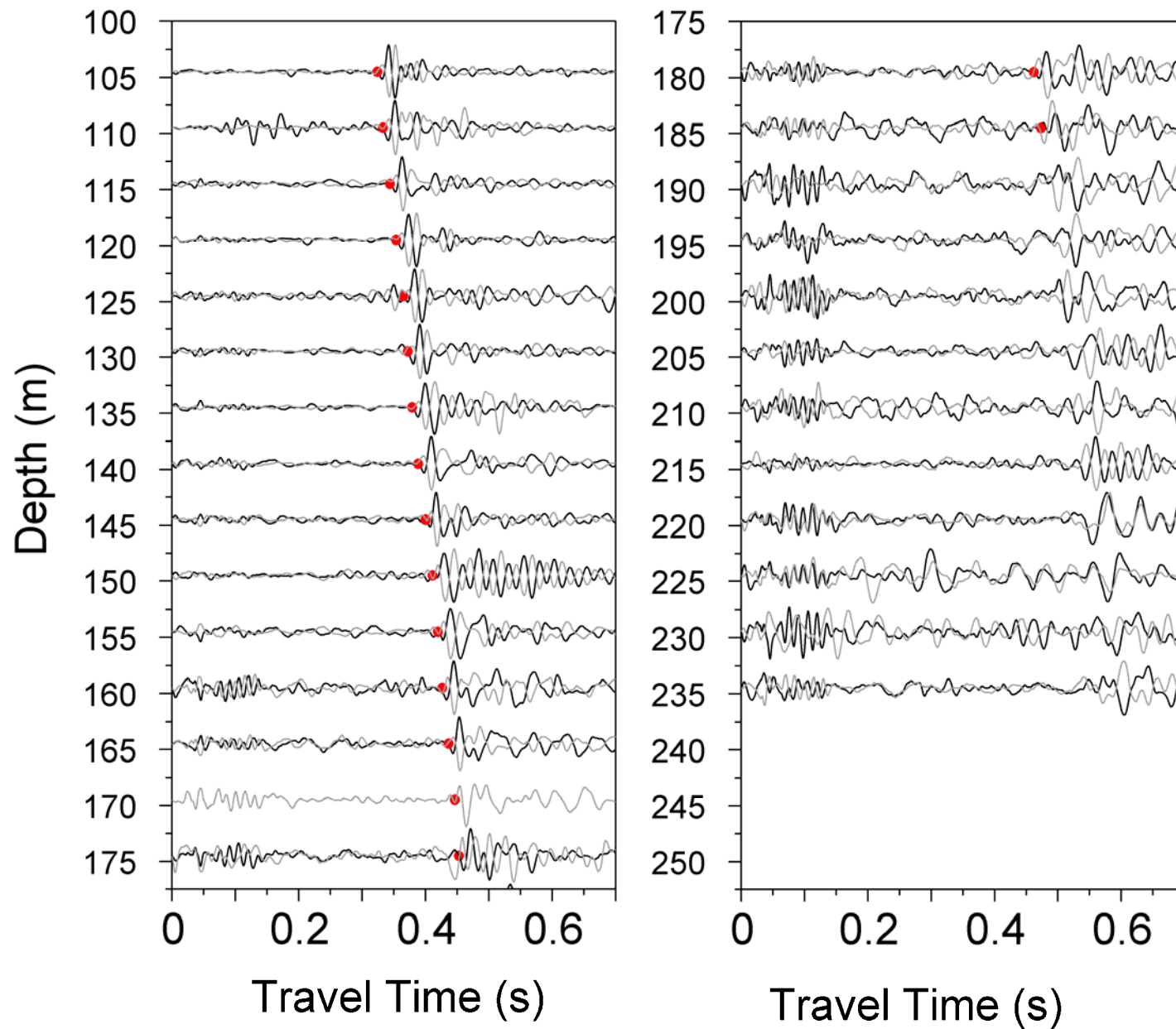


## CCOC - Gibbs

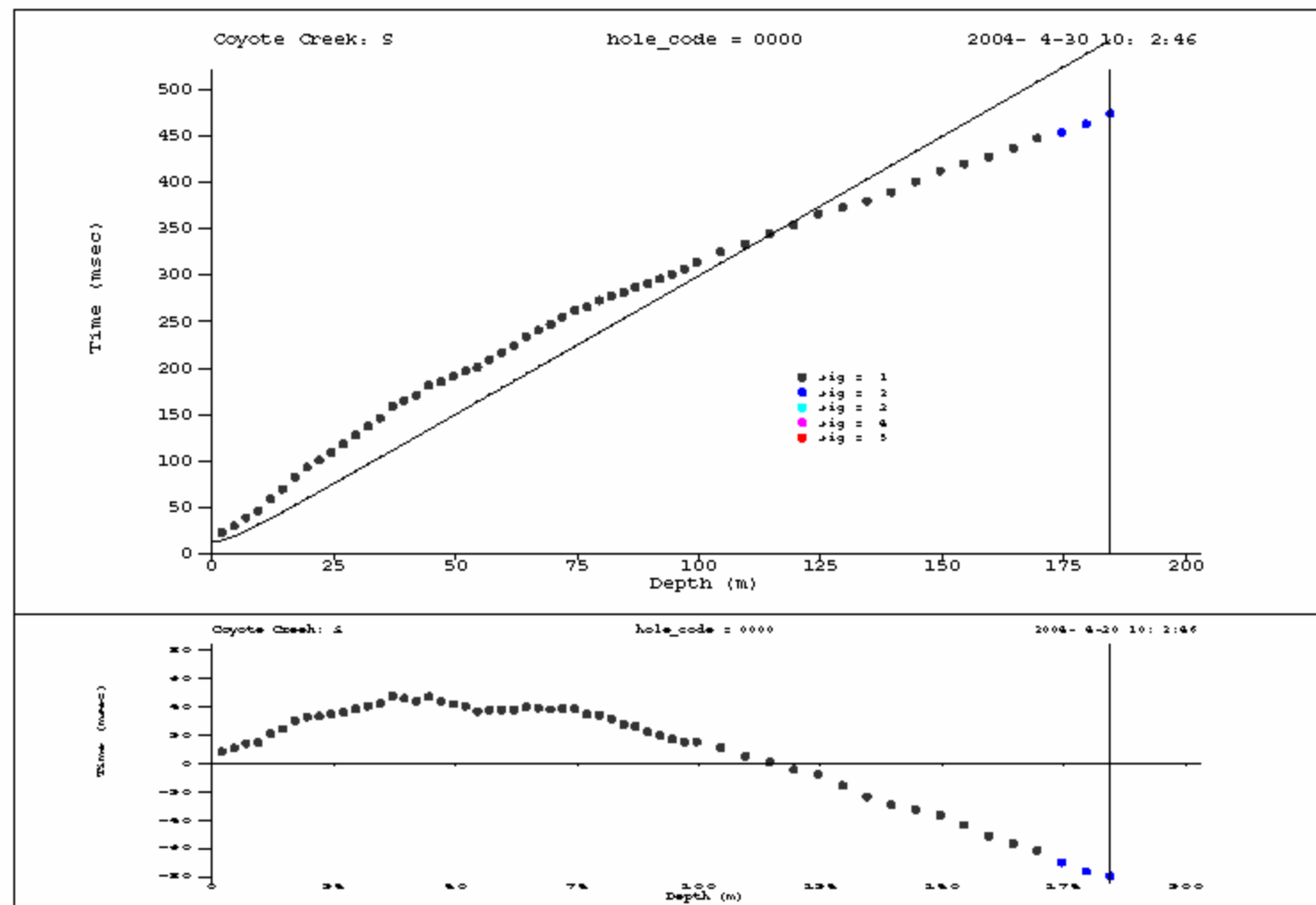


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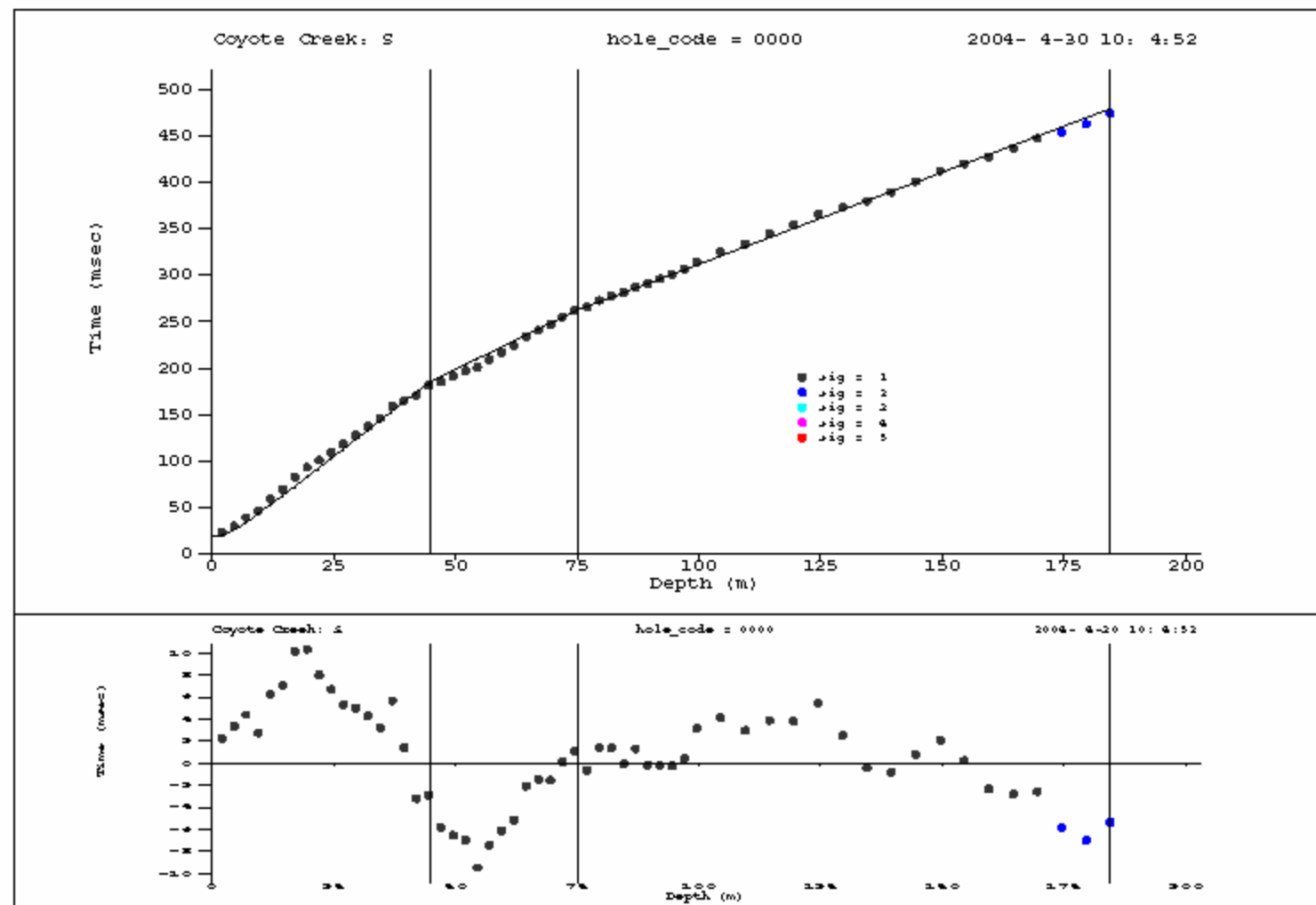
## CCOC - Gibbs

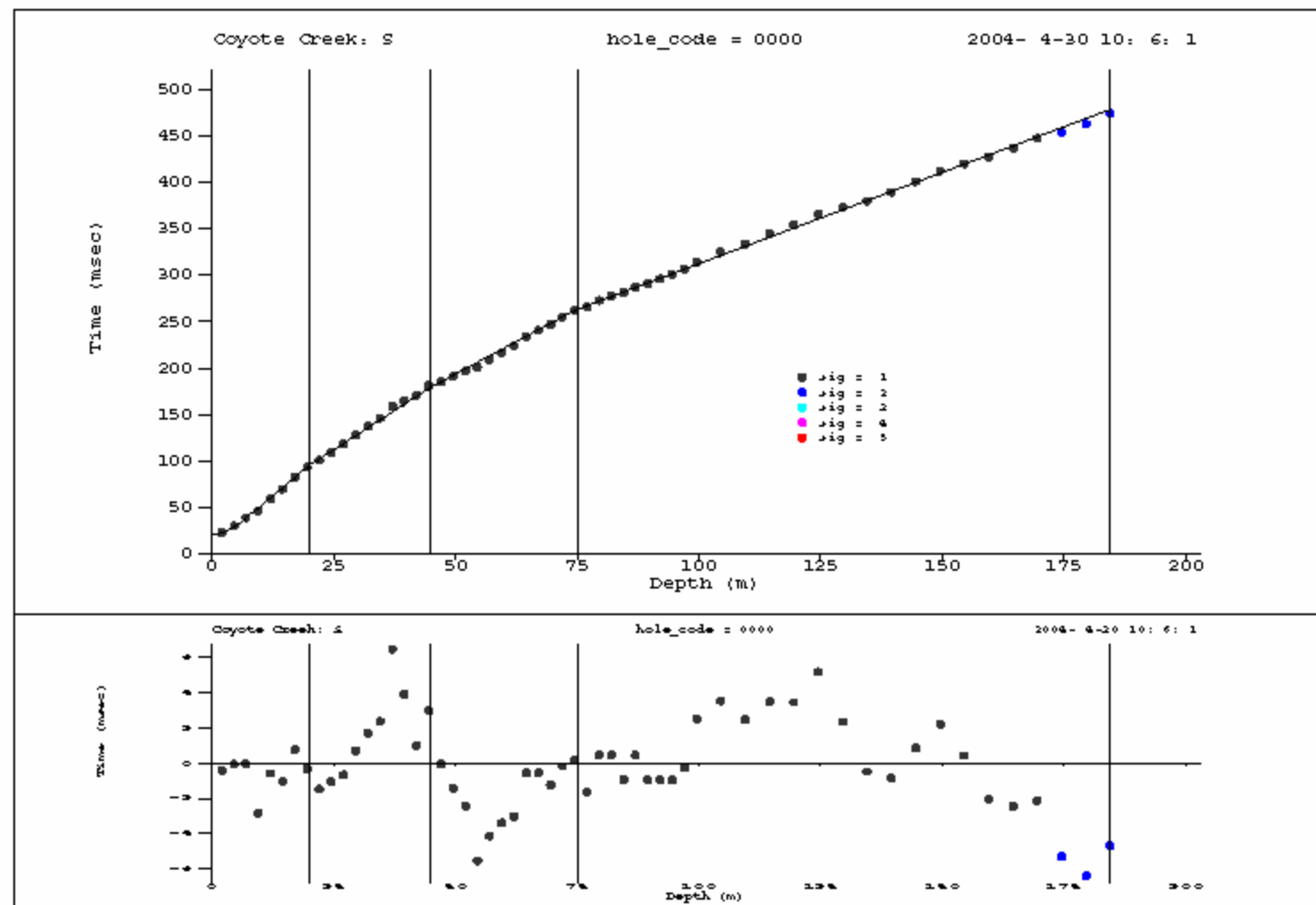


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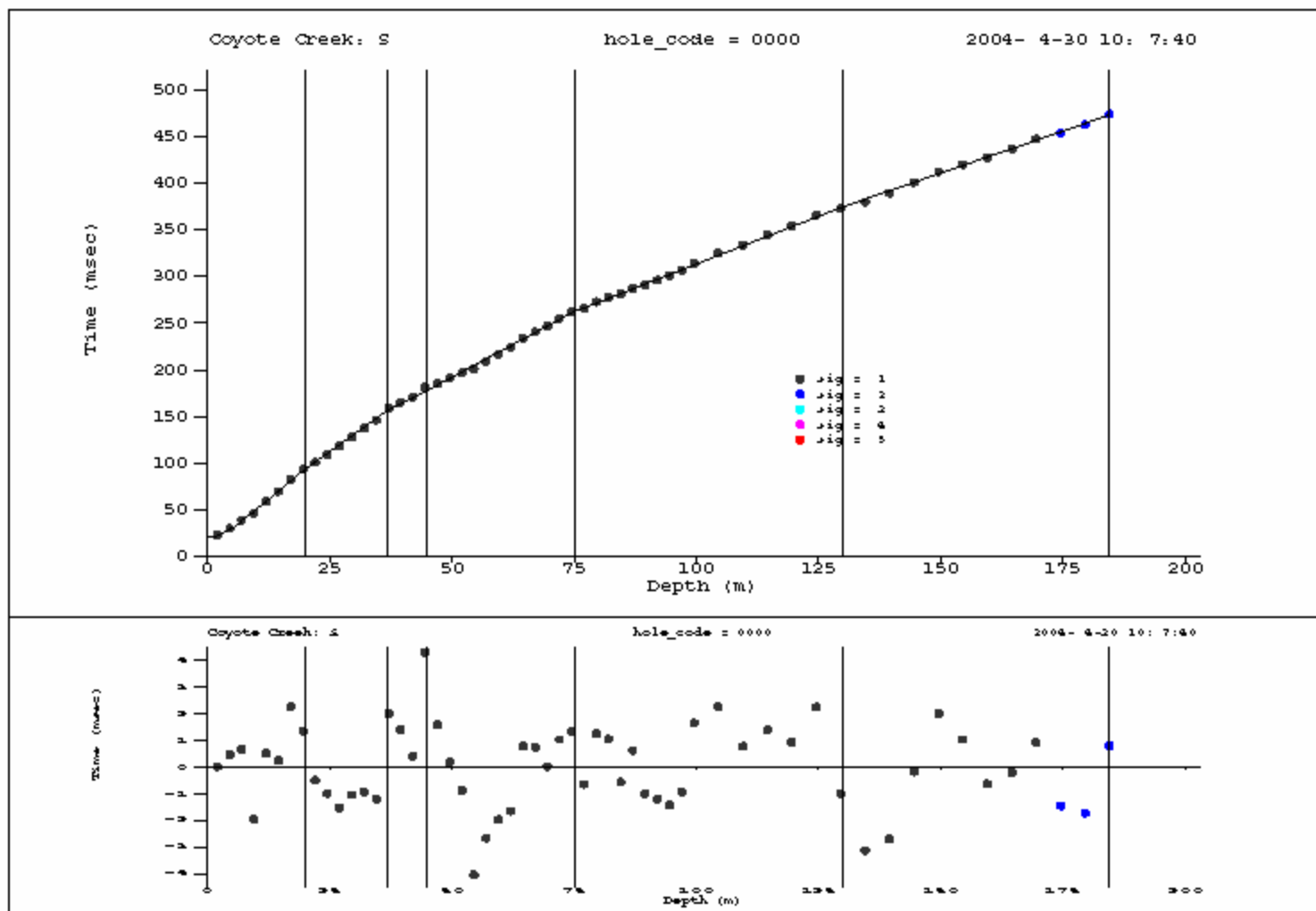


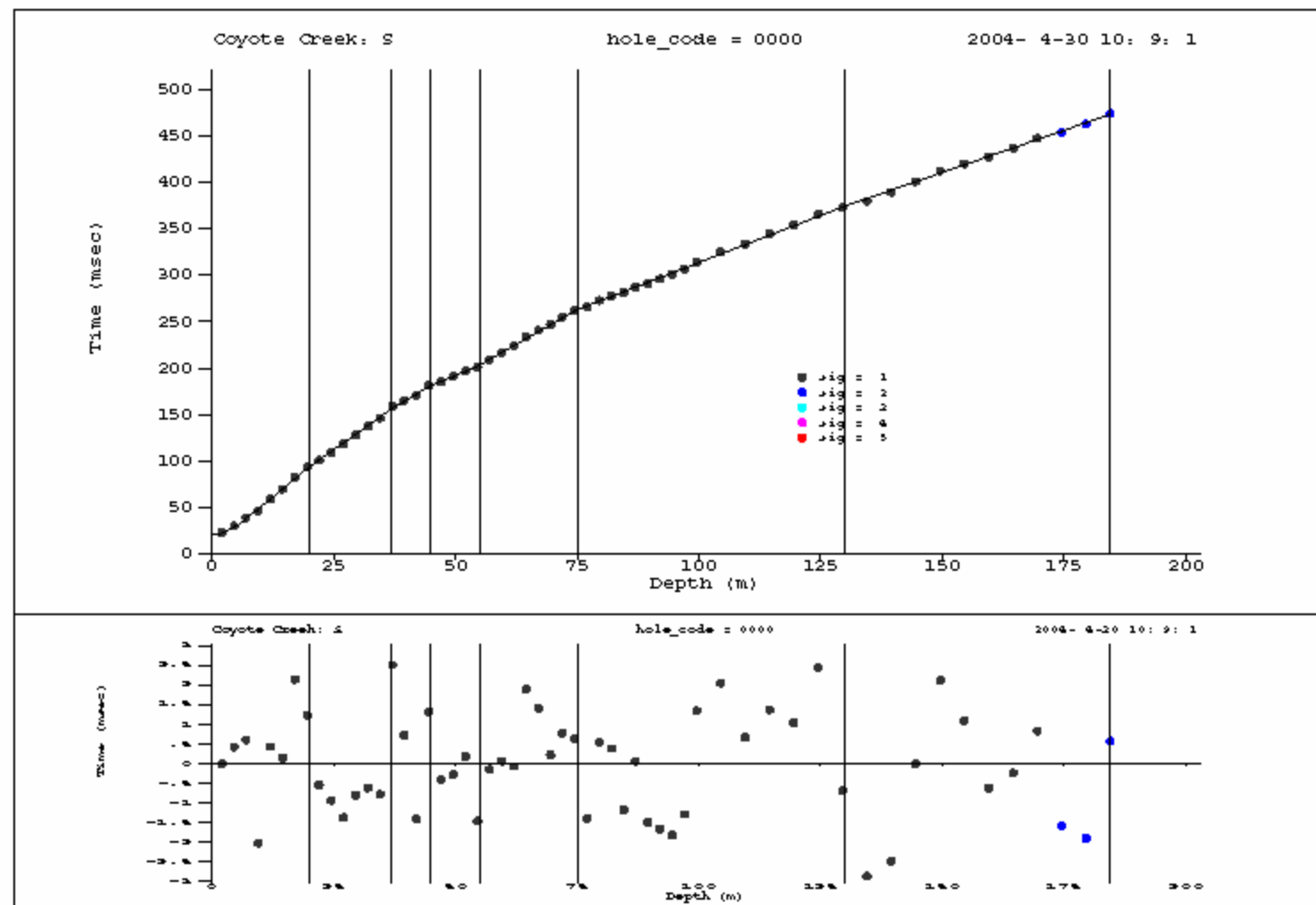


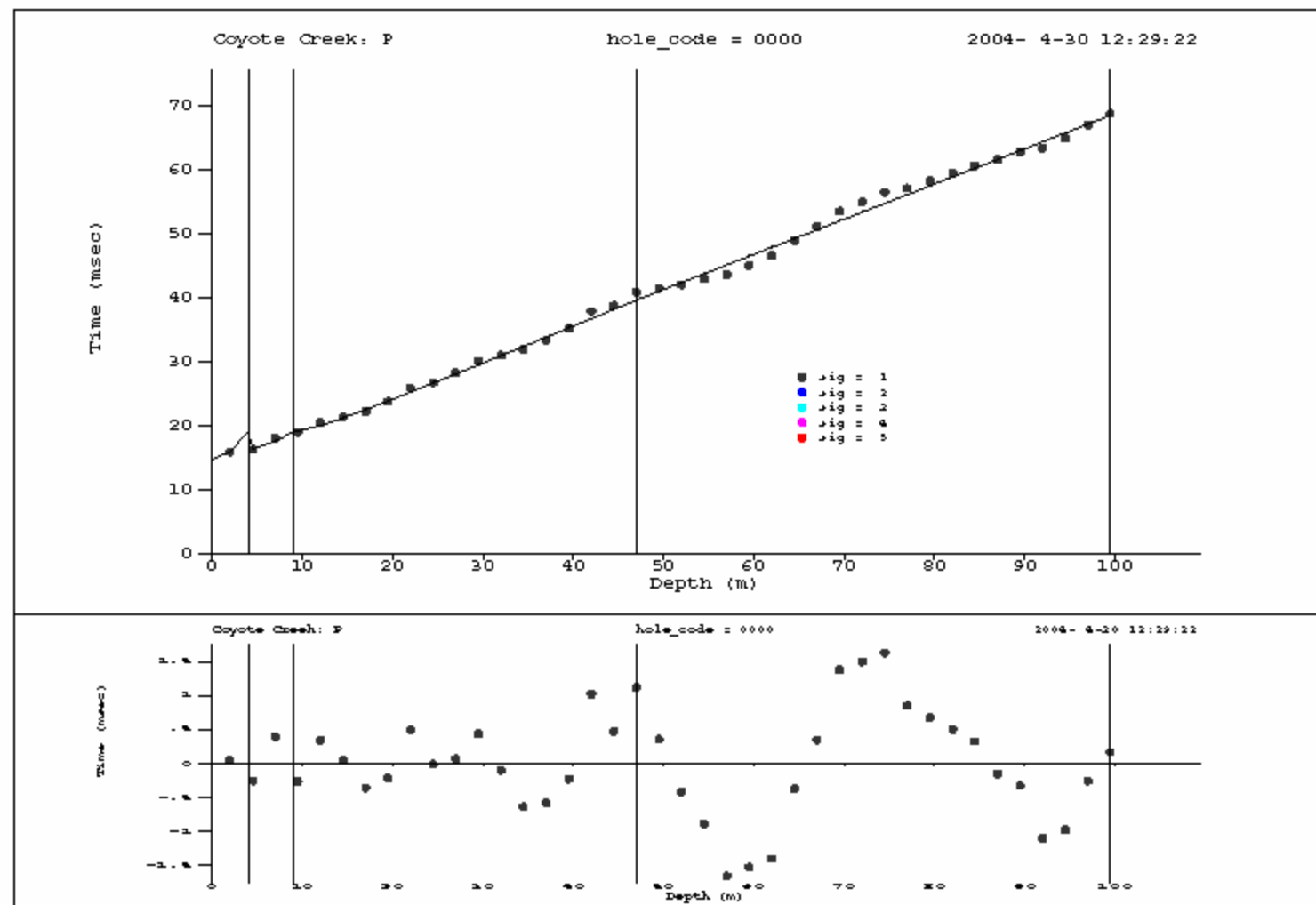


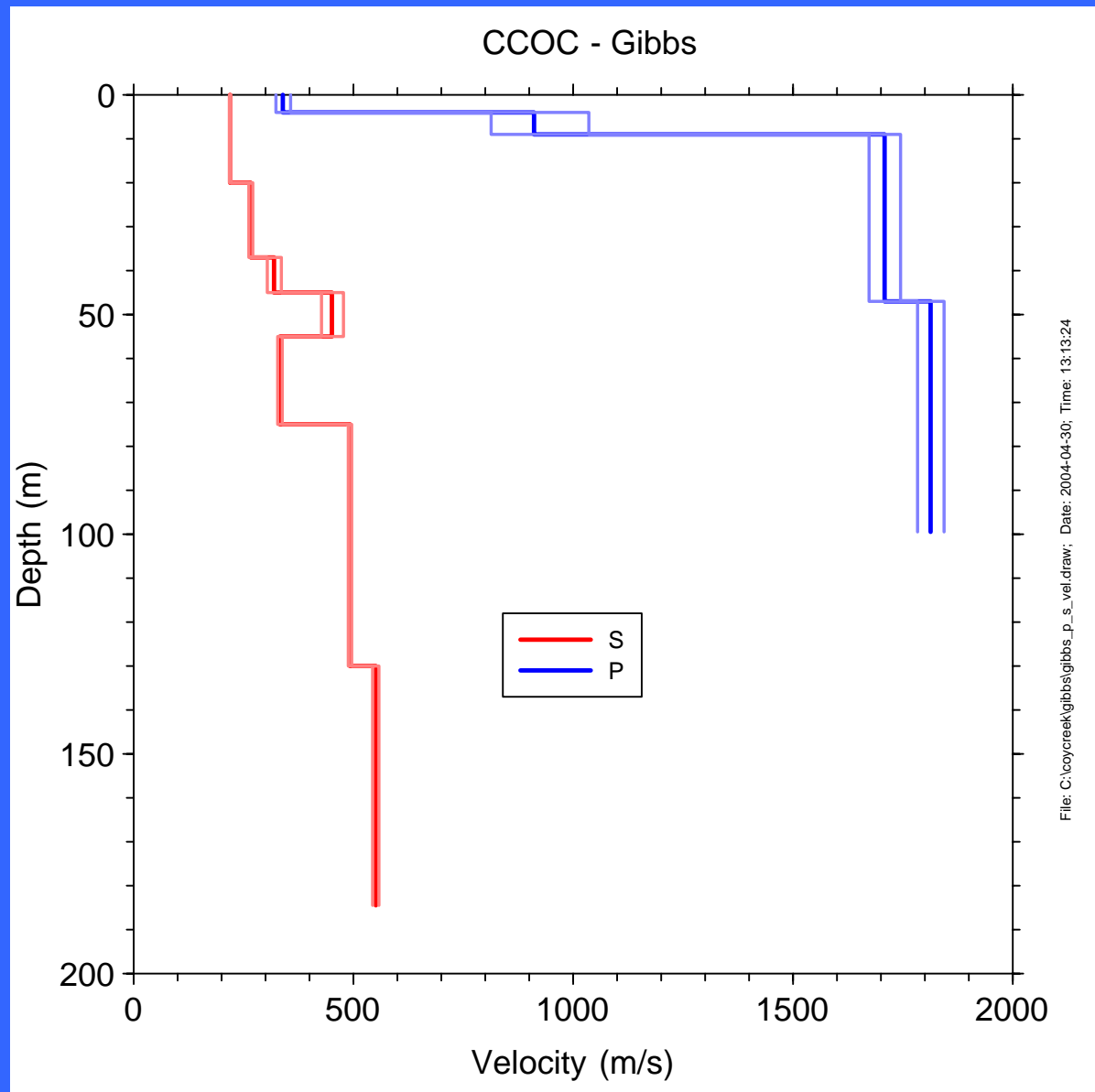














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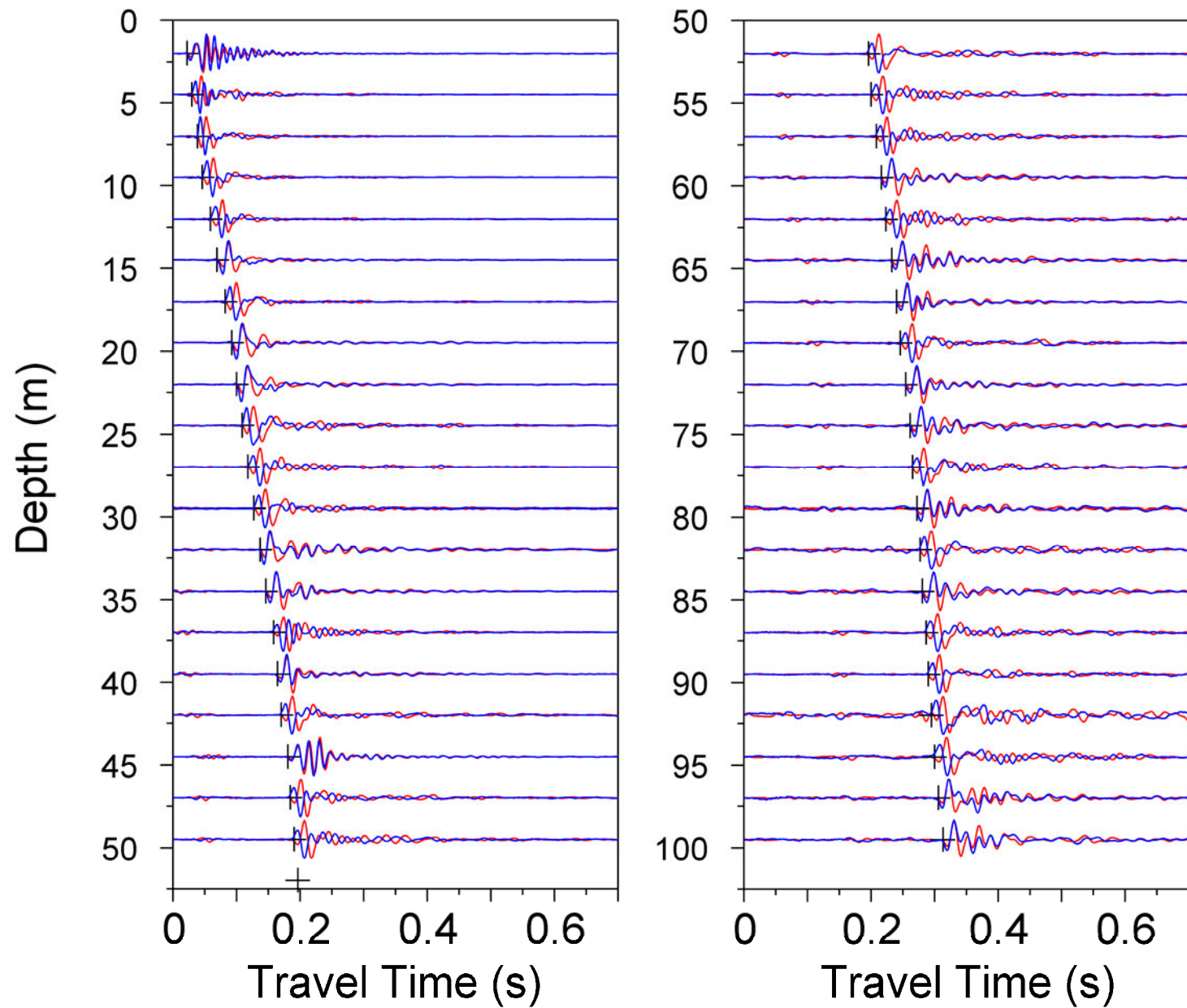
Coyote Creek Outdoor  
Classroom (CCOC) –  
Gibbs, Original & More detail

This is a followup to some of the discussion questioning the single 20m thick layer in Gibbs's S-velocity model at CCOC. I have fit his travel time data with a more complex model and computed site amplifications that account for all resonances. The following slides show the observed waveforms and picks of the S-wave arrivals (the red and blue waveforms correspond to opposite impact directions of the surface S-wave source). Also following are slides showing the travel times, model fit, and residuals vs depth, the velocity model, the suspension log data, and the averages of the suspension log data over the same depth intervals as the Gibbs models, and the site amplification. To my eye, the added detail does not lead to a significant difference in site amplification, but others may not agree.

--Dave Boore

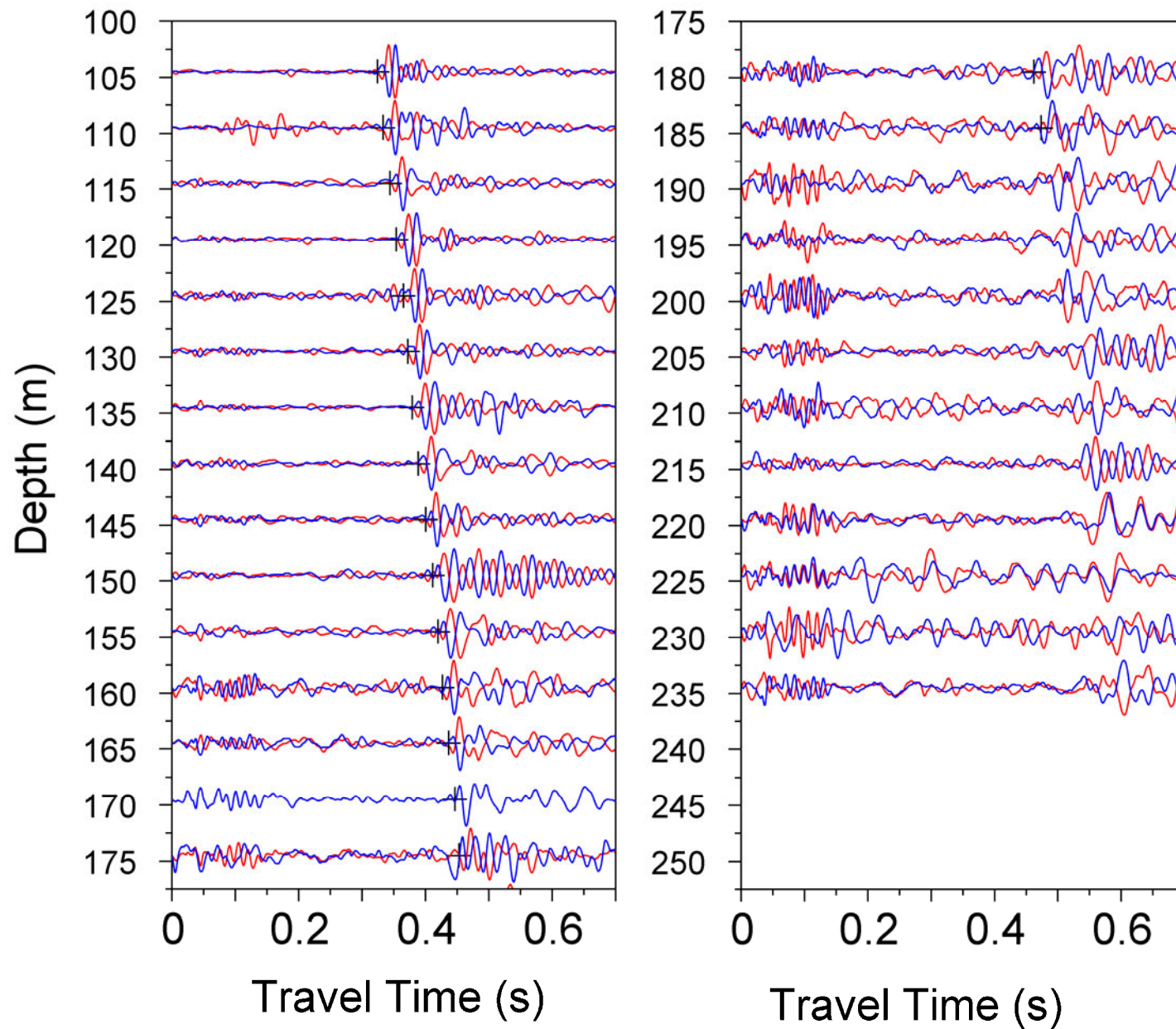


# CCOC - Gibbs

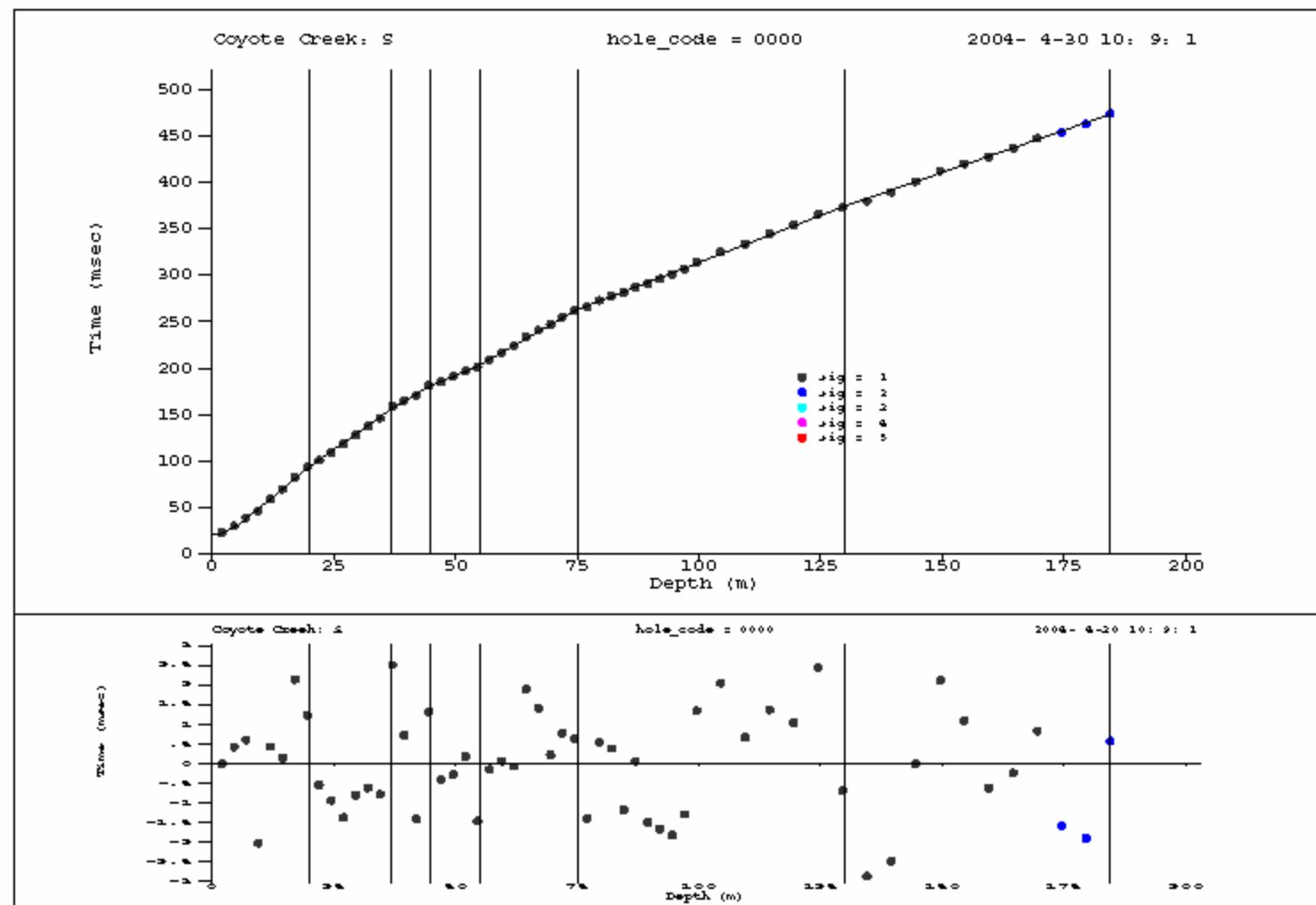


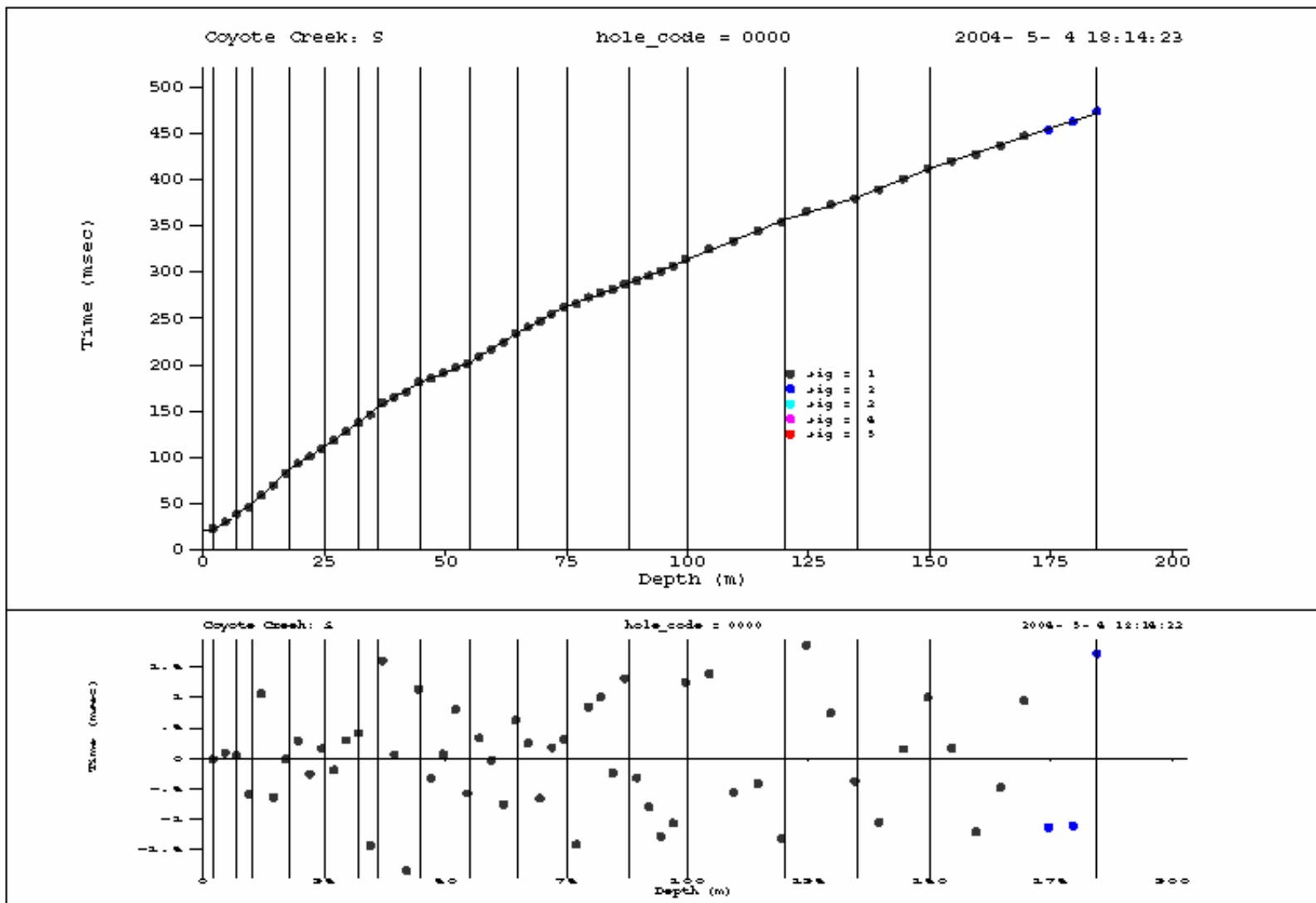
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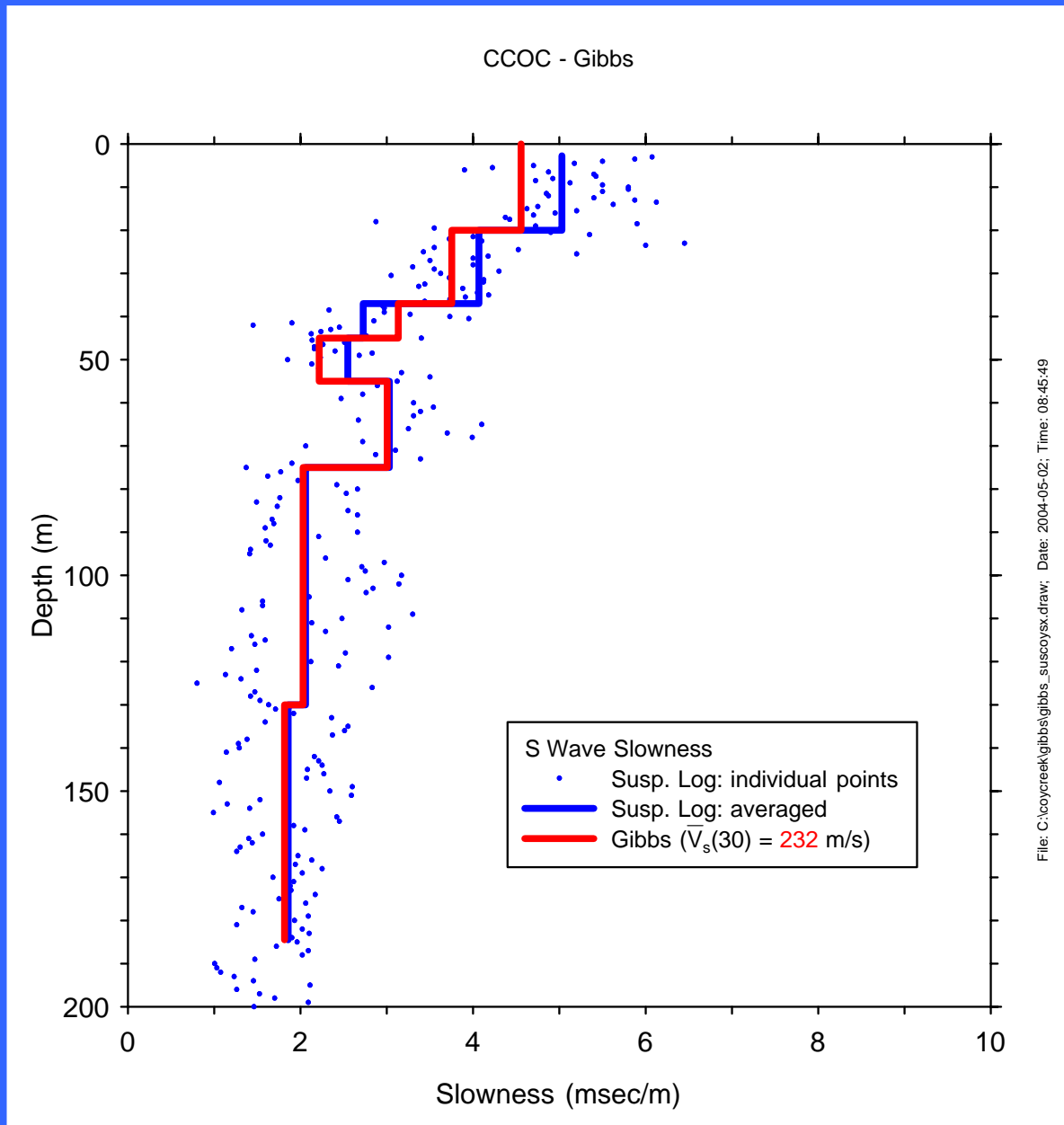
## CCOC - Gibbs



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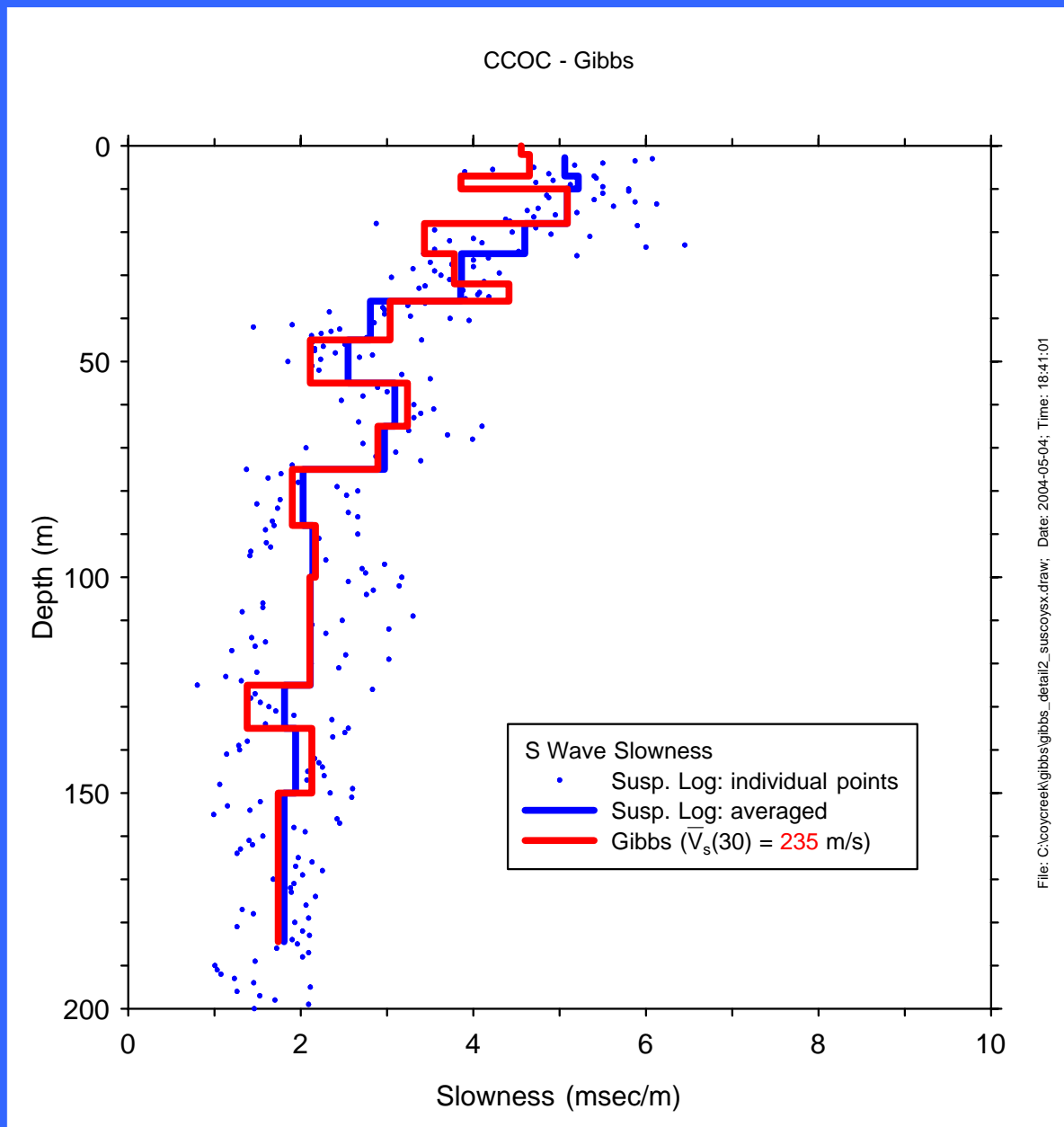






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Gibbs original model



Gibbs – more detail

