

Figure 2.5-76—{ G/G_{max} Curves Representing Uncertainty in Shear Stiffness for Layer 4 (Chesapeake Clay/Silt)}

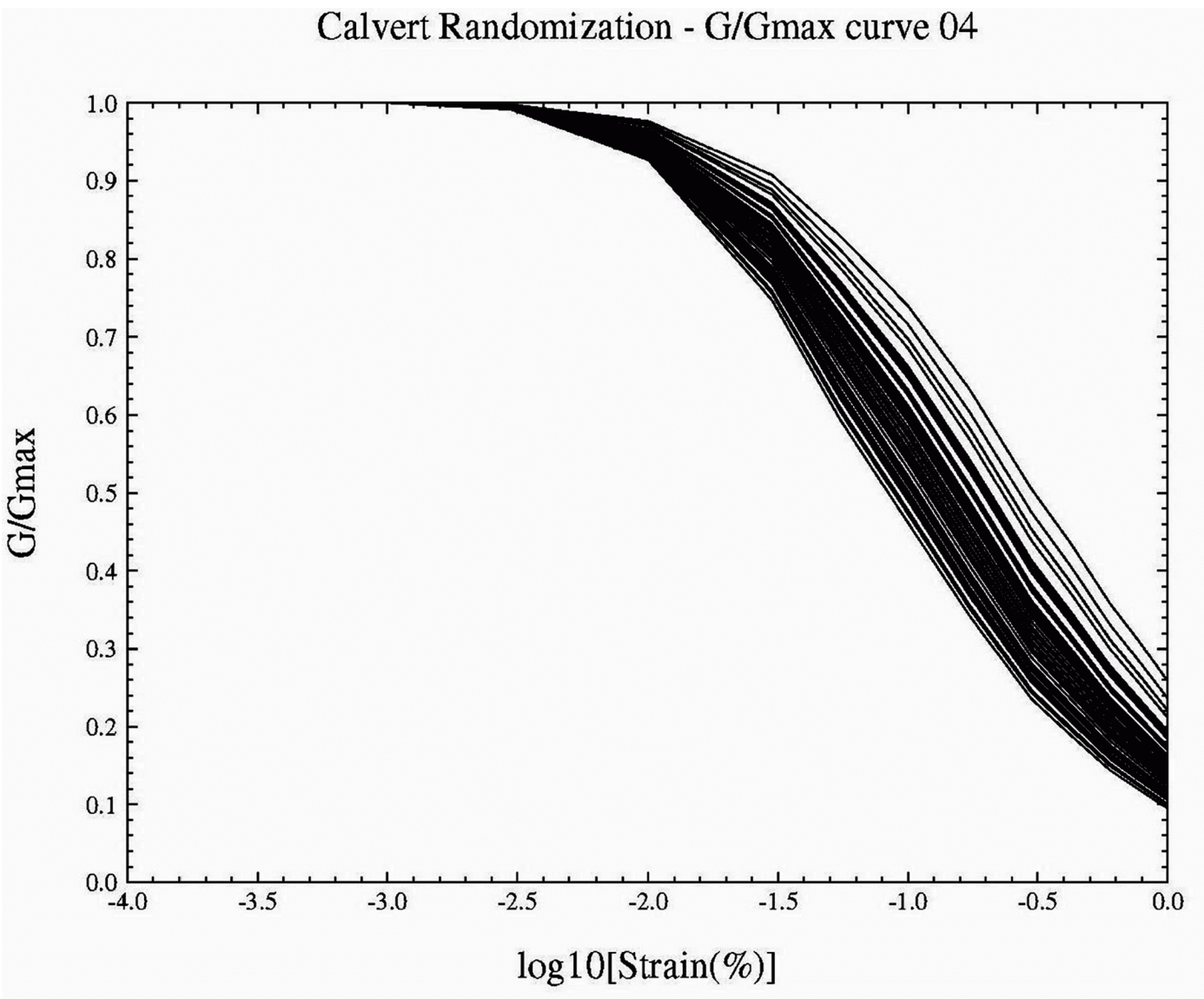


Figure 2.5-77—{Damping Curves Representing Uncertainty in Damping for Layer 4 (Chesapeake Clay/Silt)}

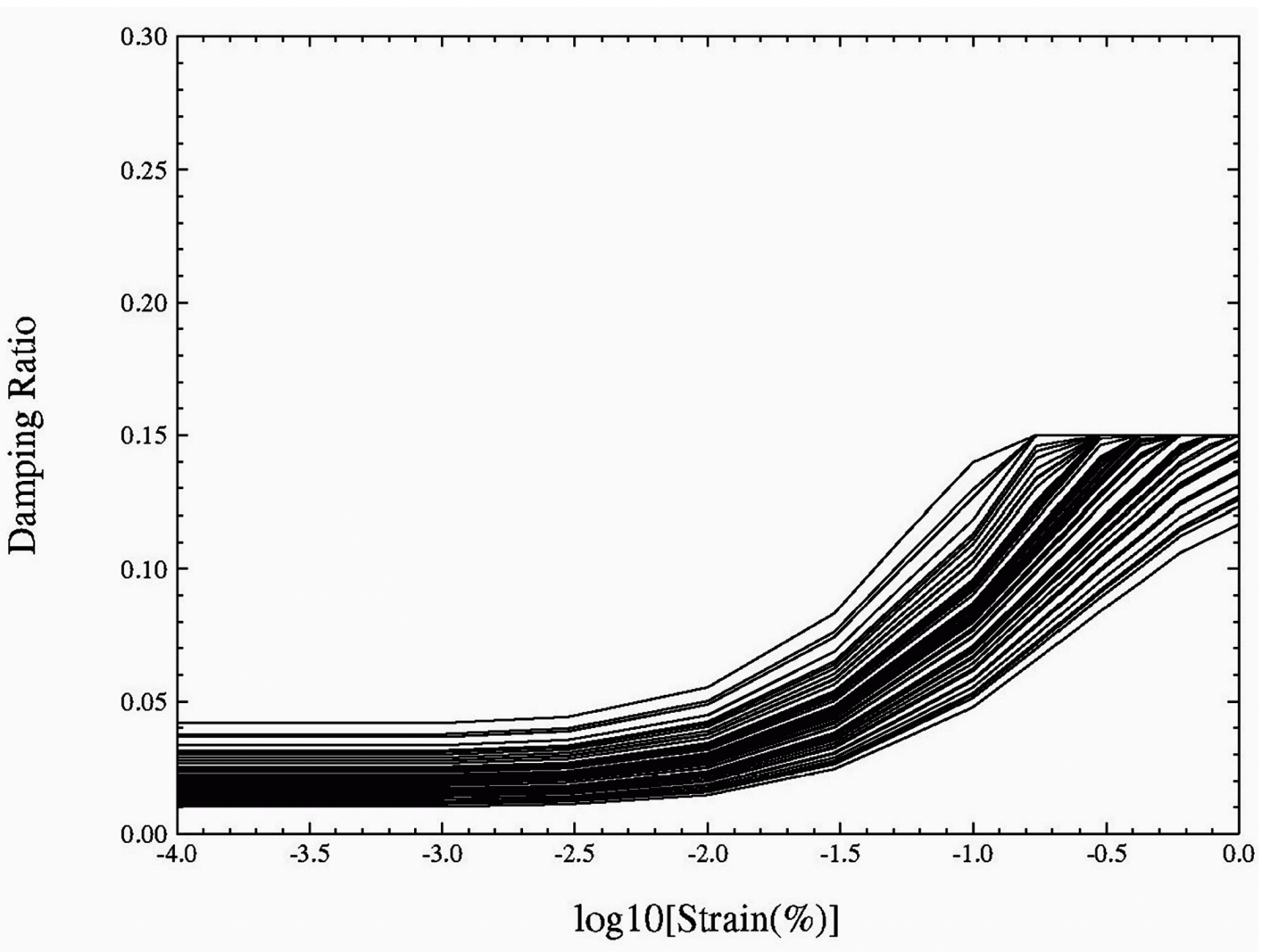


Figure 2.5-78—{Logarithmic Mean Site Amplification Factor and Standard Deviation at 41' Depth for 10⁻⁴ HF Input Motion}

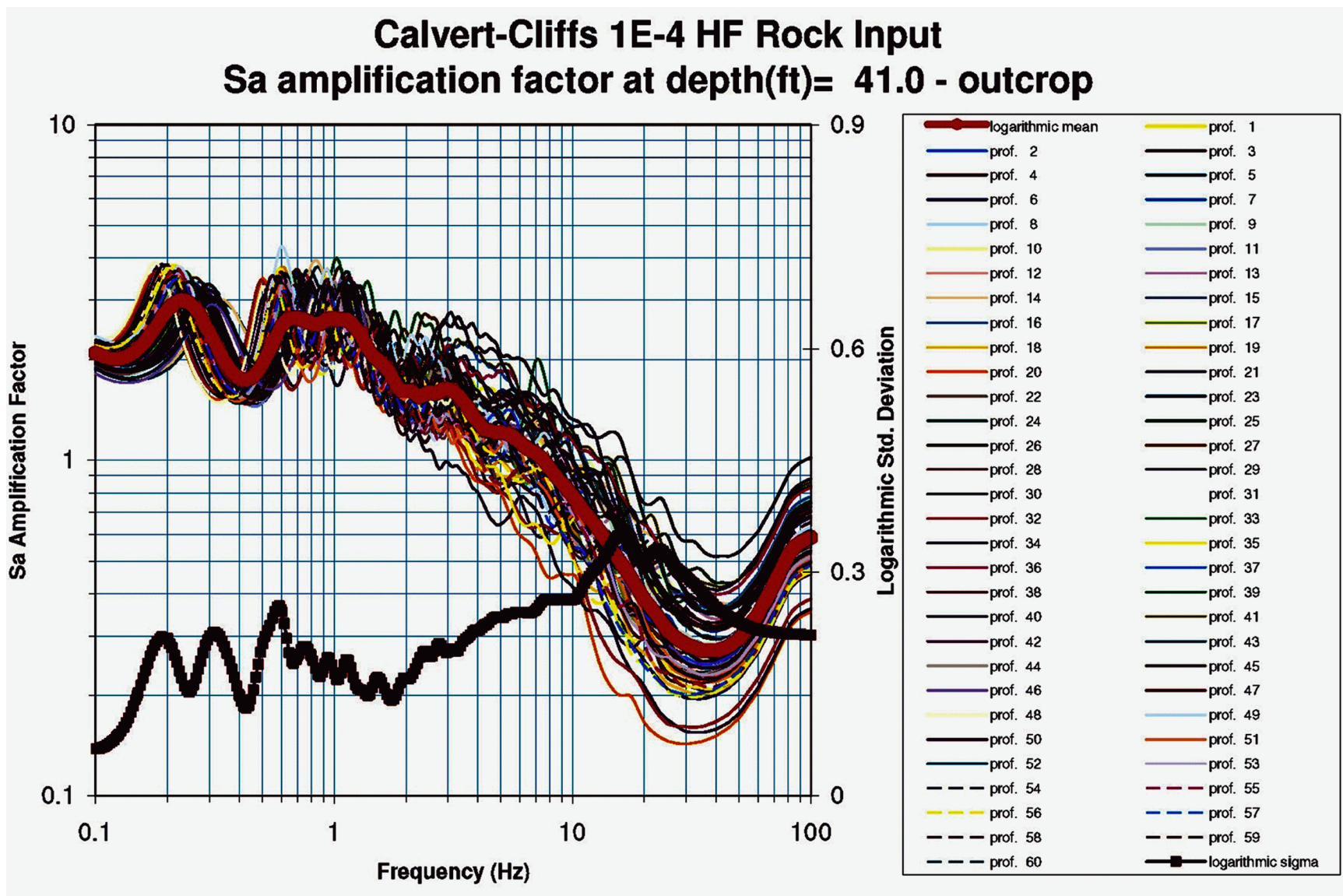


Figure 2.5-79—{Maximum Strains vs. Depth for 10⁻⁴ HF Input Motion}

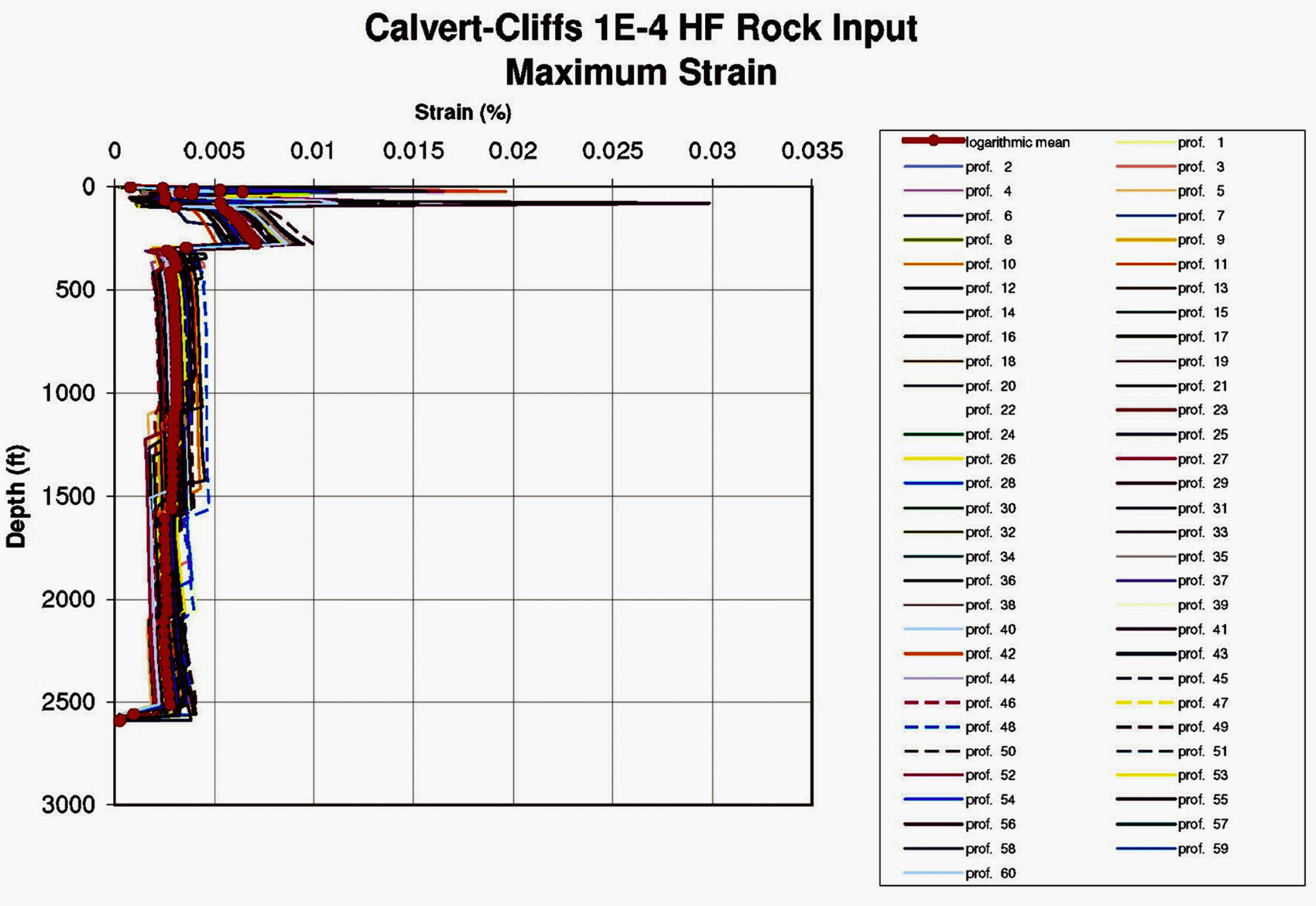


Figure 2.5-80—{Logarithmic Mean Site Amplification Factor and Standard Deviation at 41' Depth for 10⁻⁴ LF Input Motion}

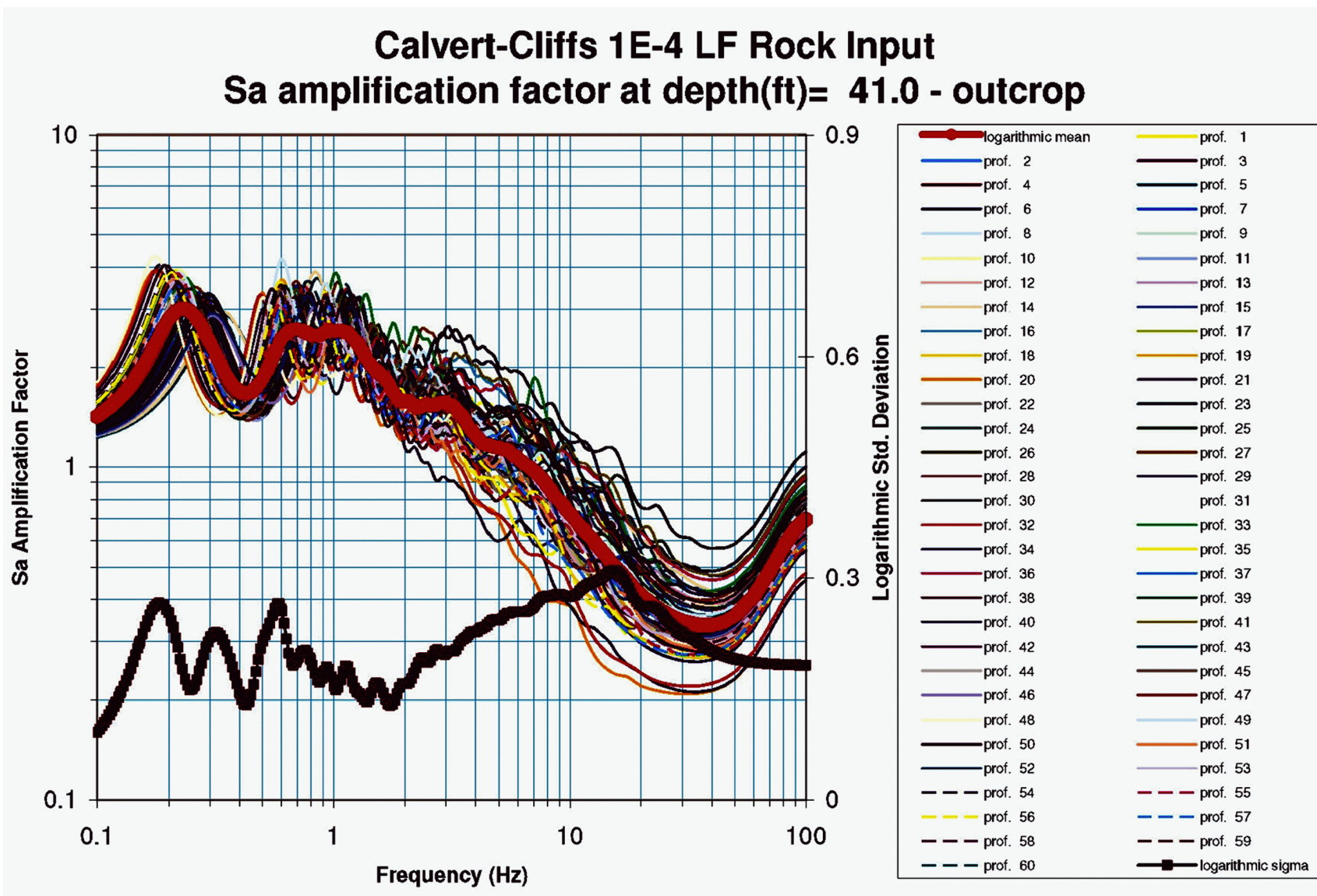


Figure 2.5-81—{Maximum Strains vs. Depth for 10⁻⁴ LF Input Motion}

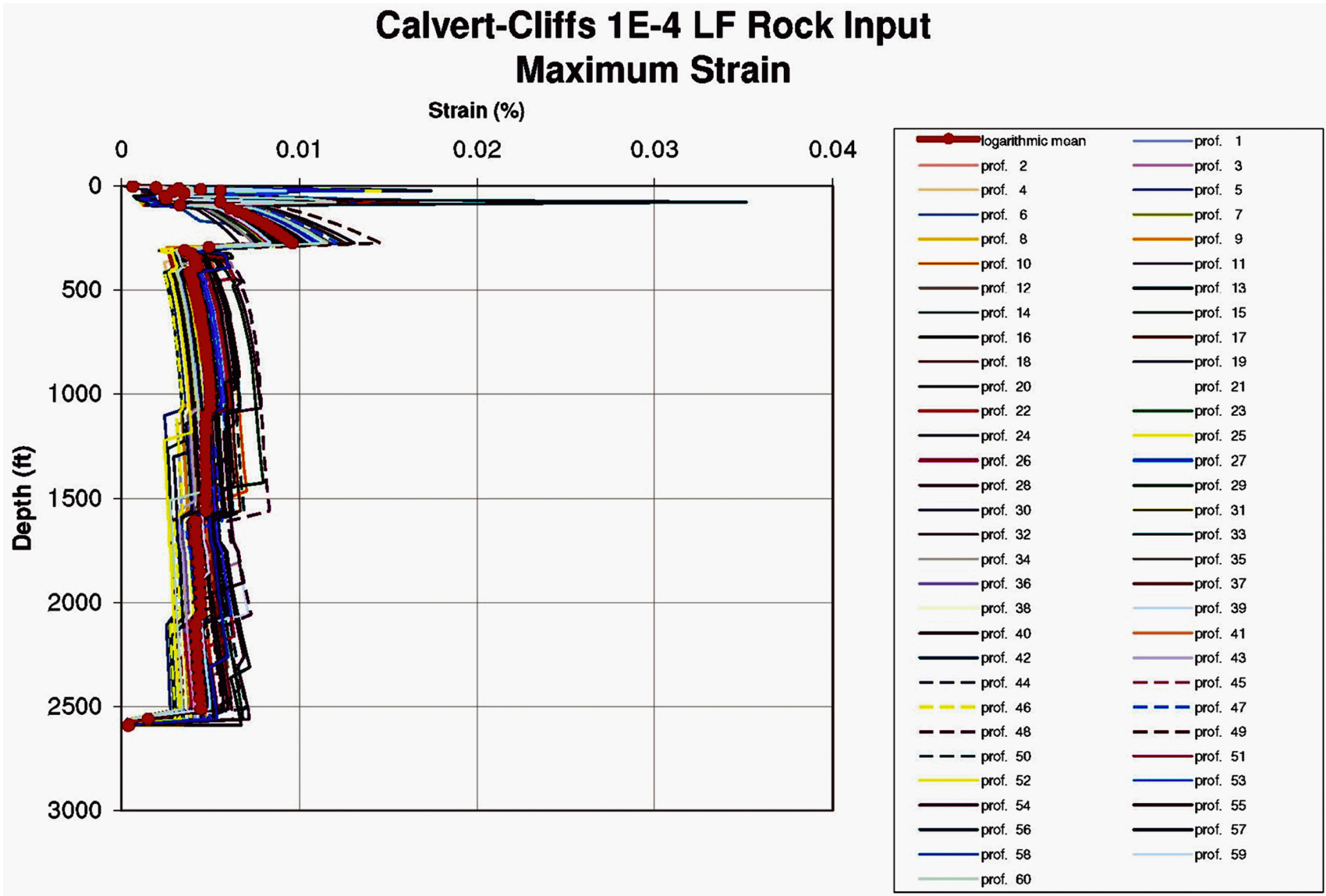


Figure 2.5-82—{Logarithmic Mean Site Amplification Factor and Standard Deviation at 41' Depth for 10⁻⁵ LF Input Motion}

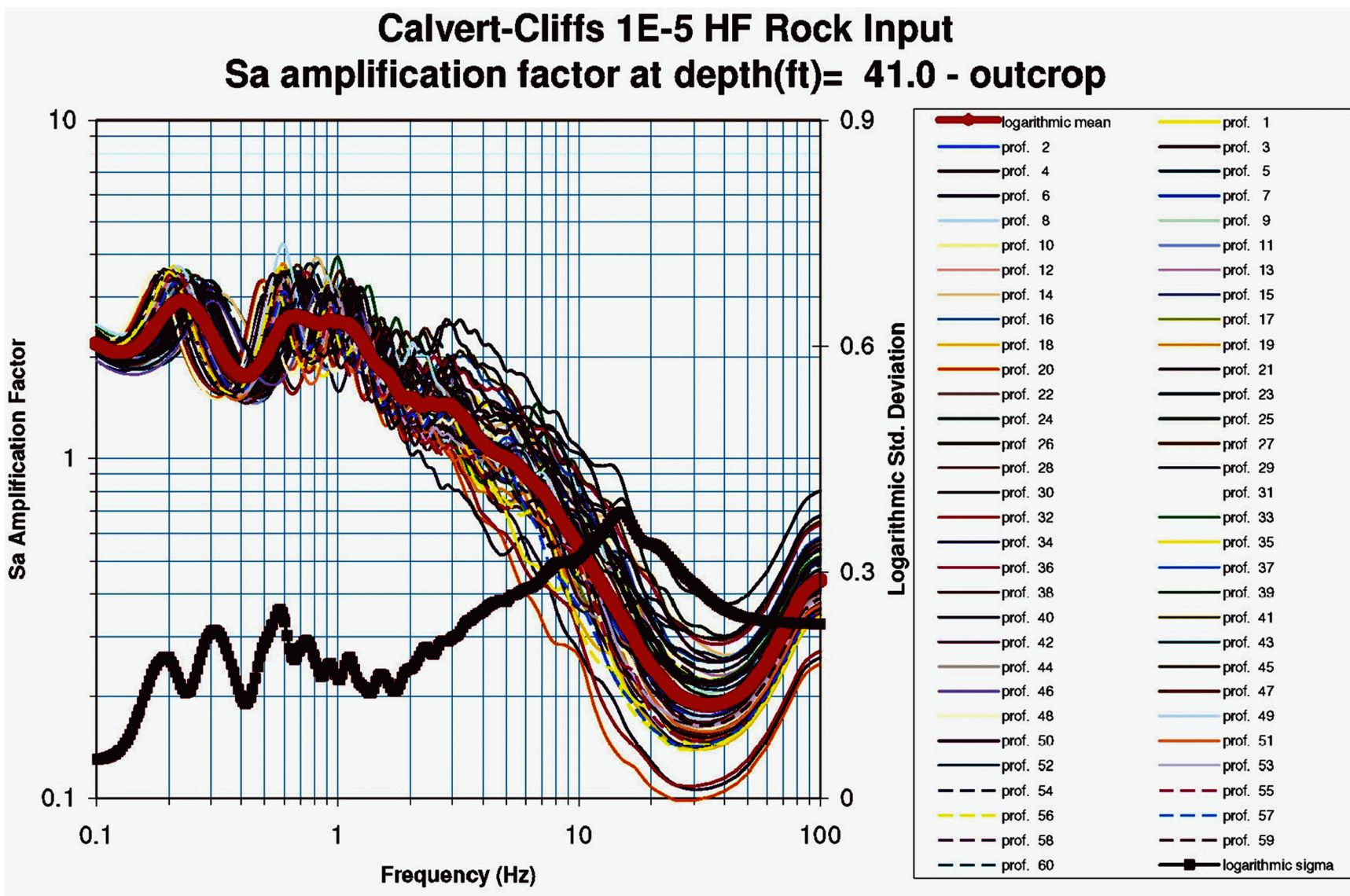


Figure 2.5-83—{Maximum Strains vs. Depth for 10^{-5} HF Input Motion}

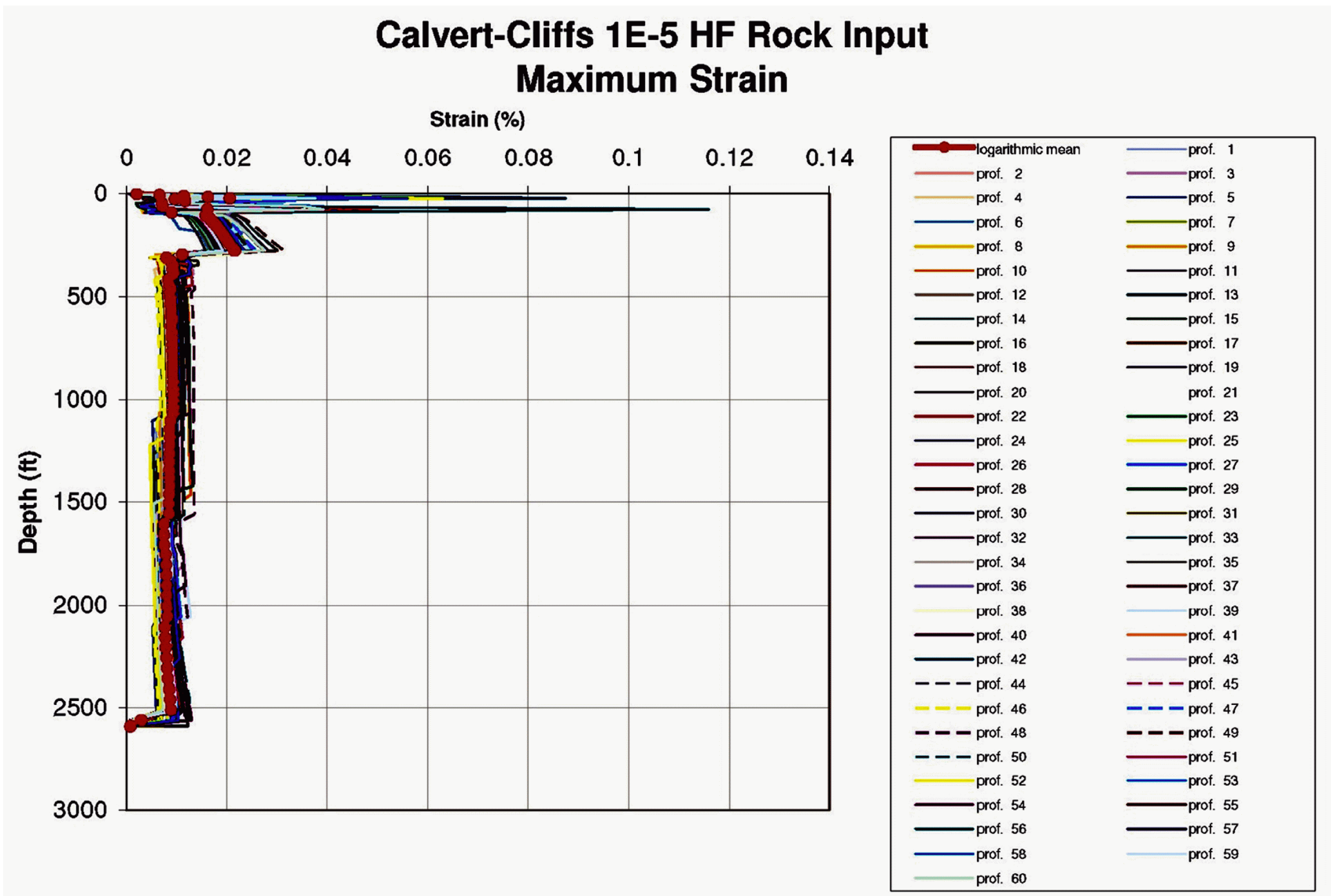


Figure 2.5-84—{Logarithmic Mean Site Amplification Factor and Standard Deviation at 41 ft Depth for 10^{-5} LF Input Motion}

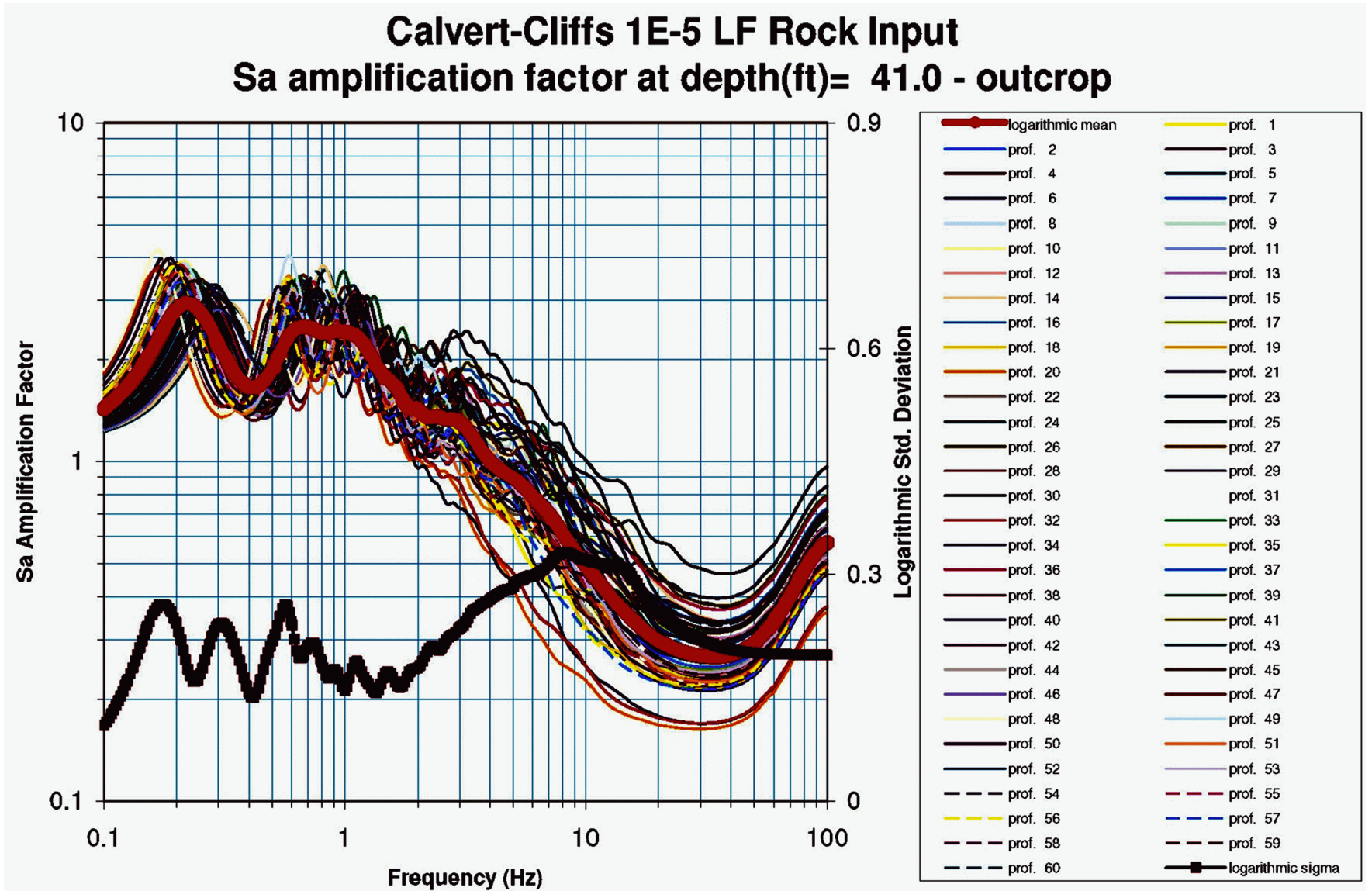


Figure 2.5-85—{Maximum Strains vs Depth for 10⁻⁵ LF Input Motion}

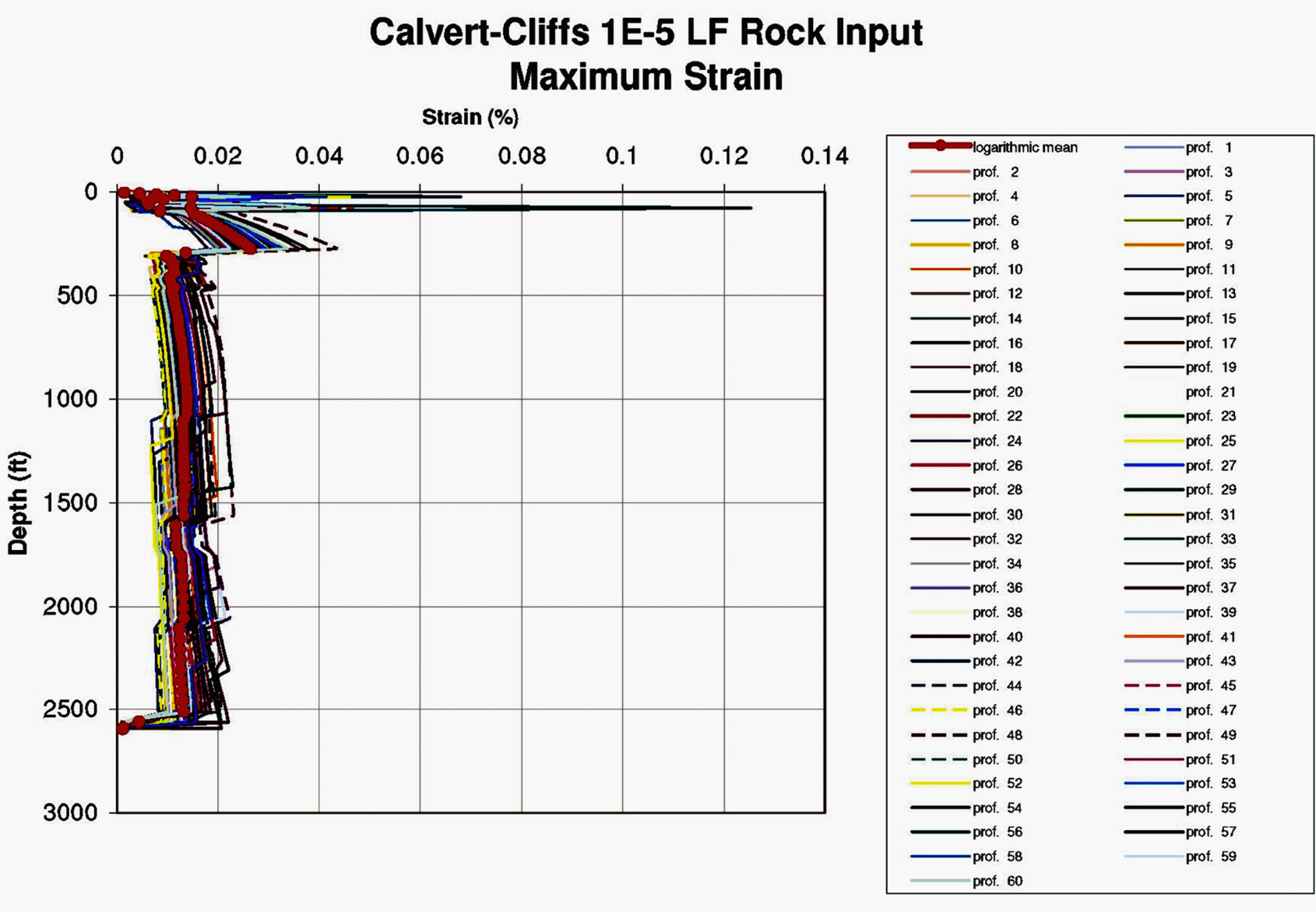


Figure 2.5-86—{HF and LF Spectra and Envelopes for 10^{-4} and 10^{-5} }

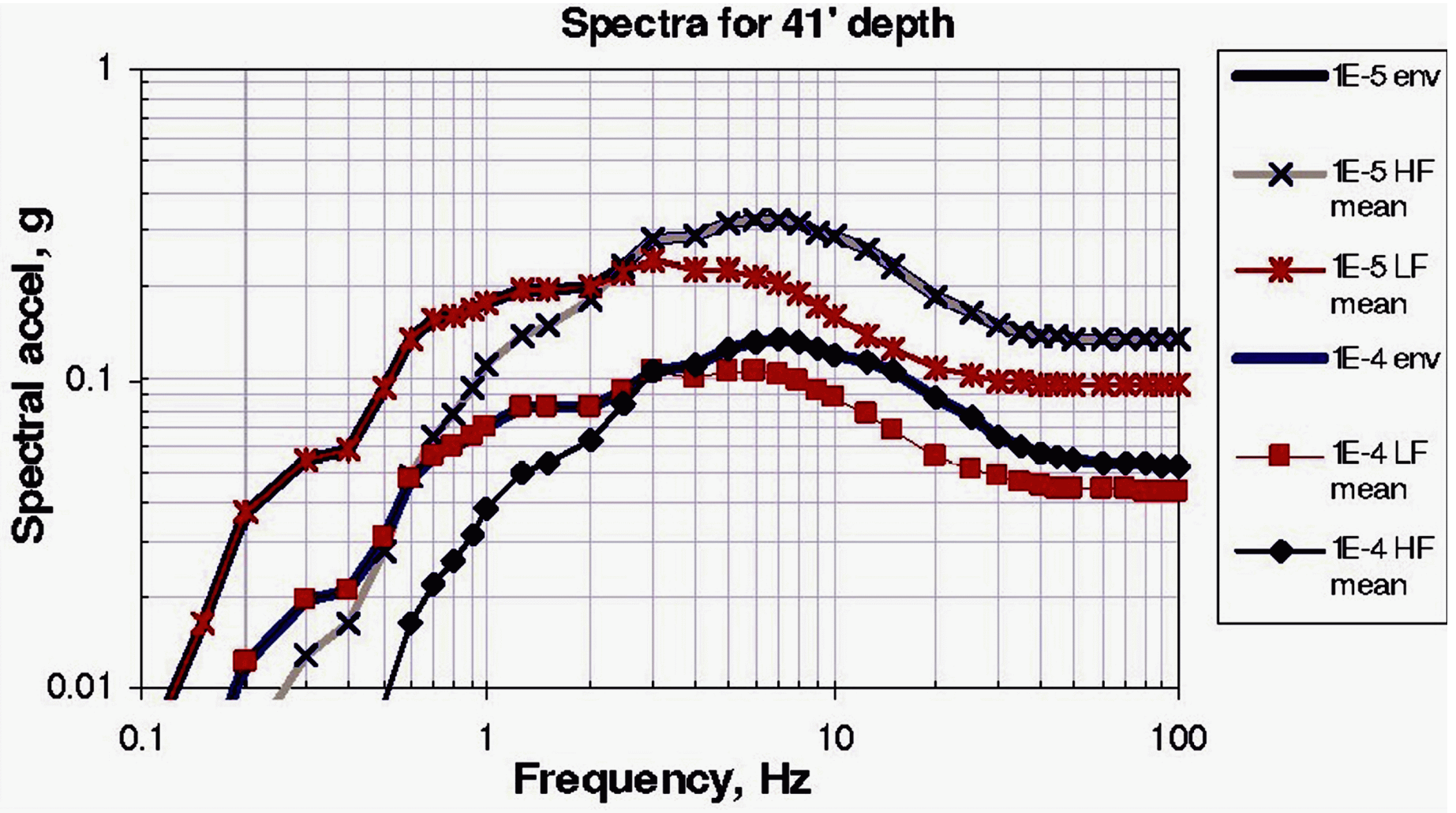


Figure 2.5-87—{Recommended Horizontal and Vertical SSE Spectra}

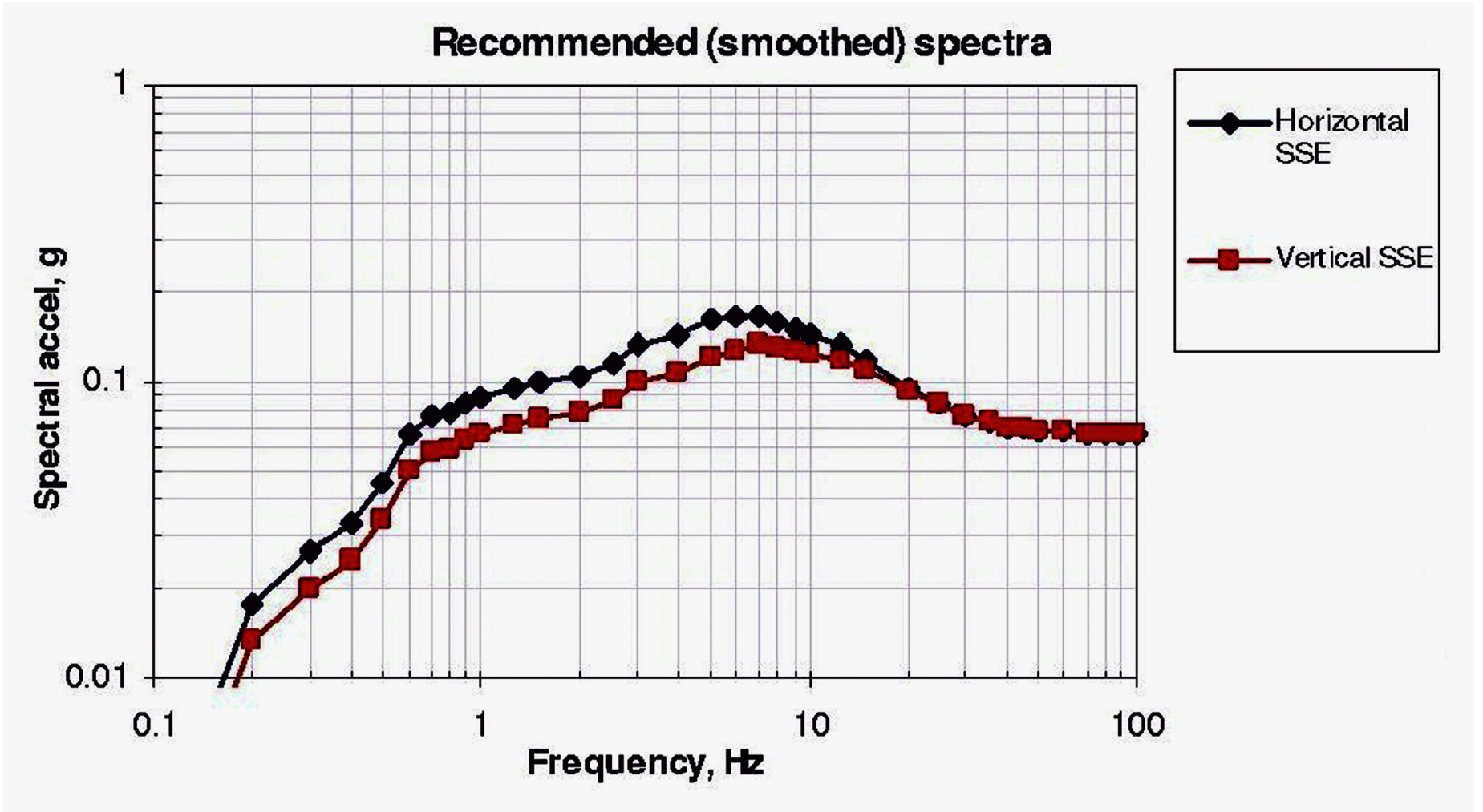


Figure 2.5-88—{V/H Ratios from Several Publications and Recommended V/H Ratios}

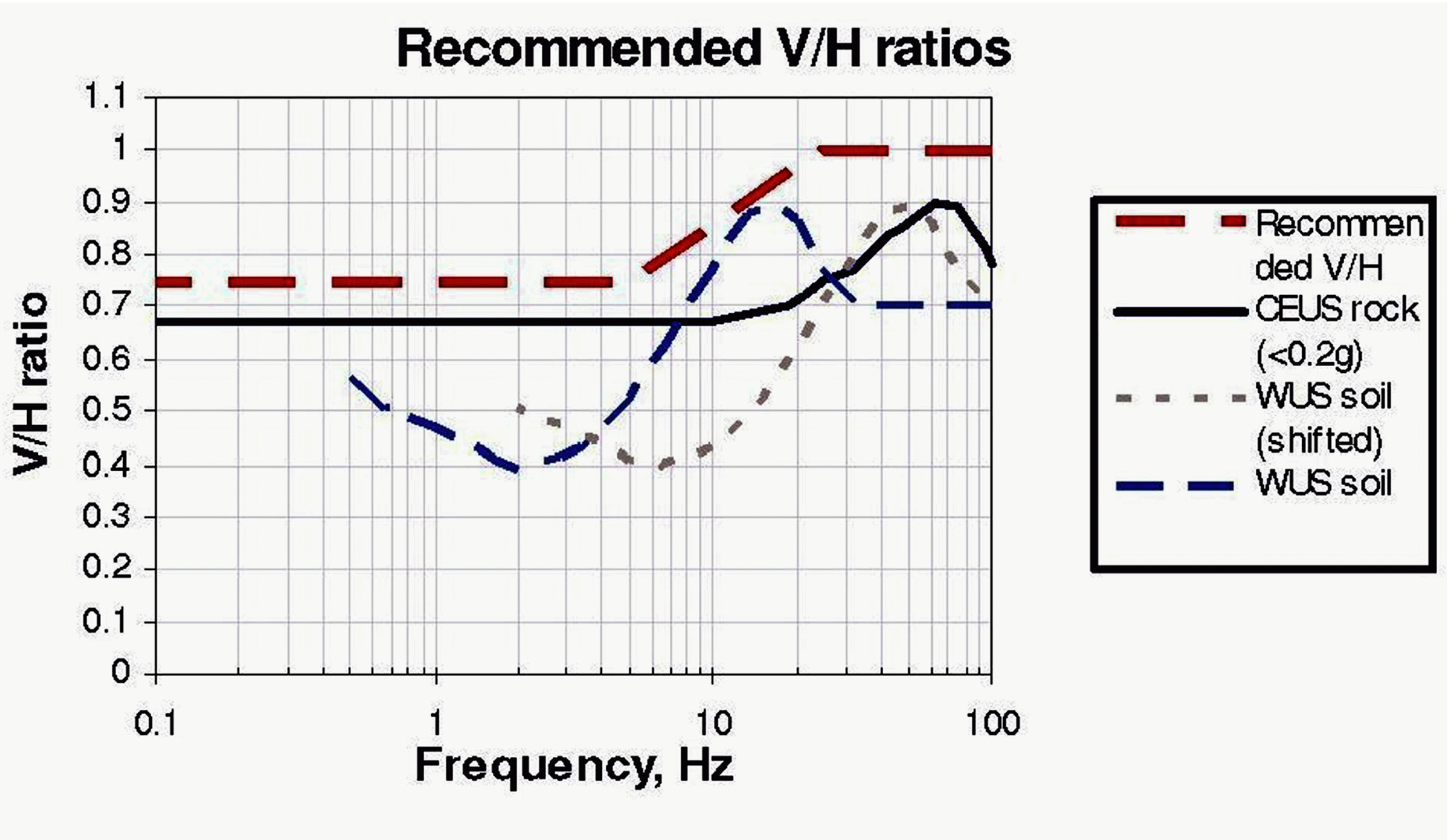


Figure 2.5-89—{Mean 10^{-6} Deaggregation Plot for 1 and 2.5 Hz}

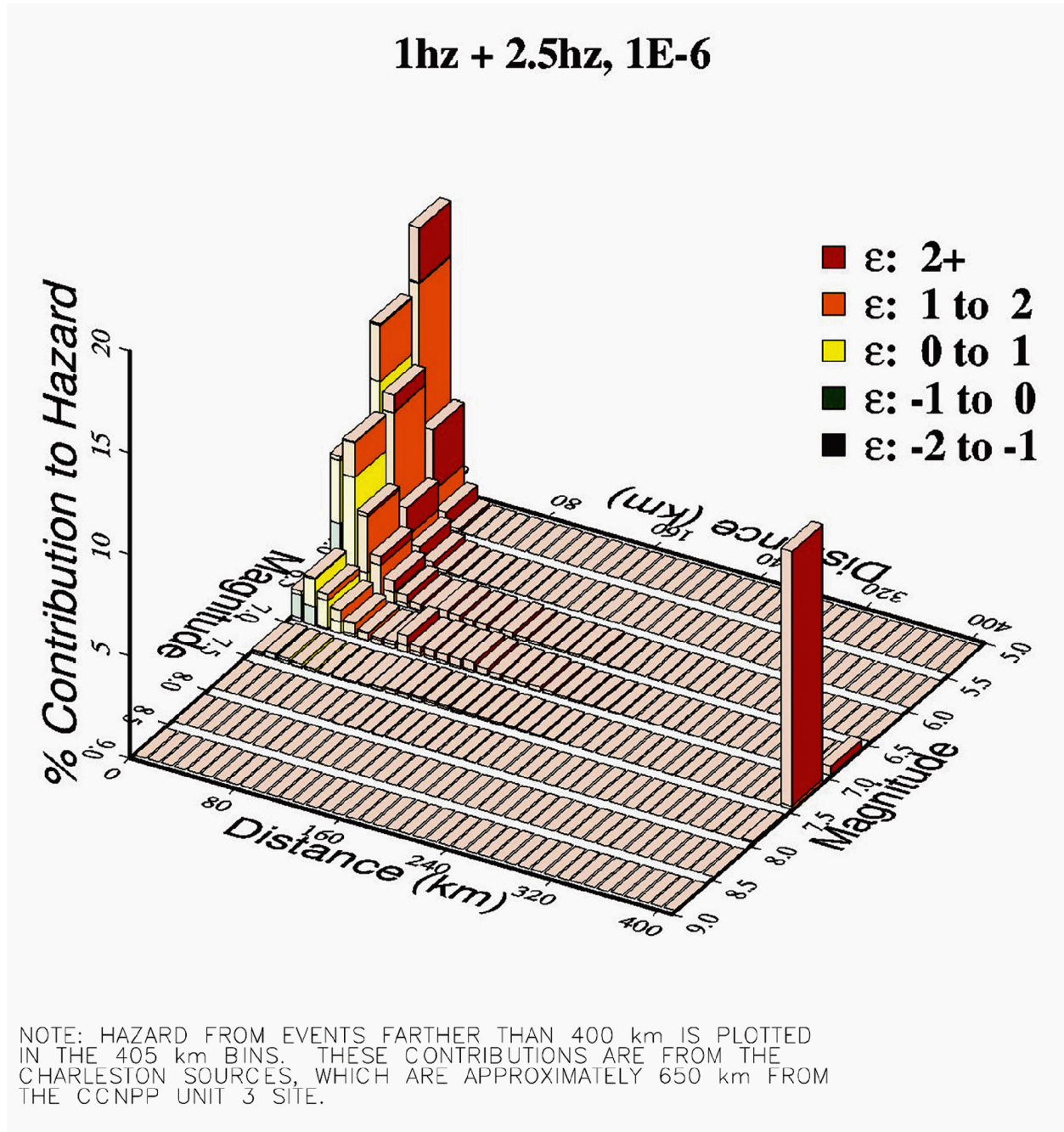


Figure 2.5-90—{Mean 10^{-6} Deaggregation Plot for 5 and 10 Hz}

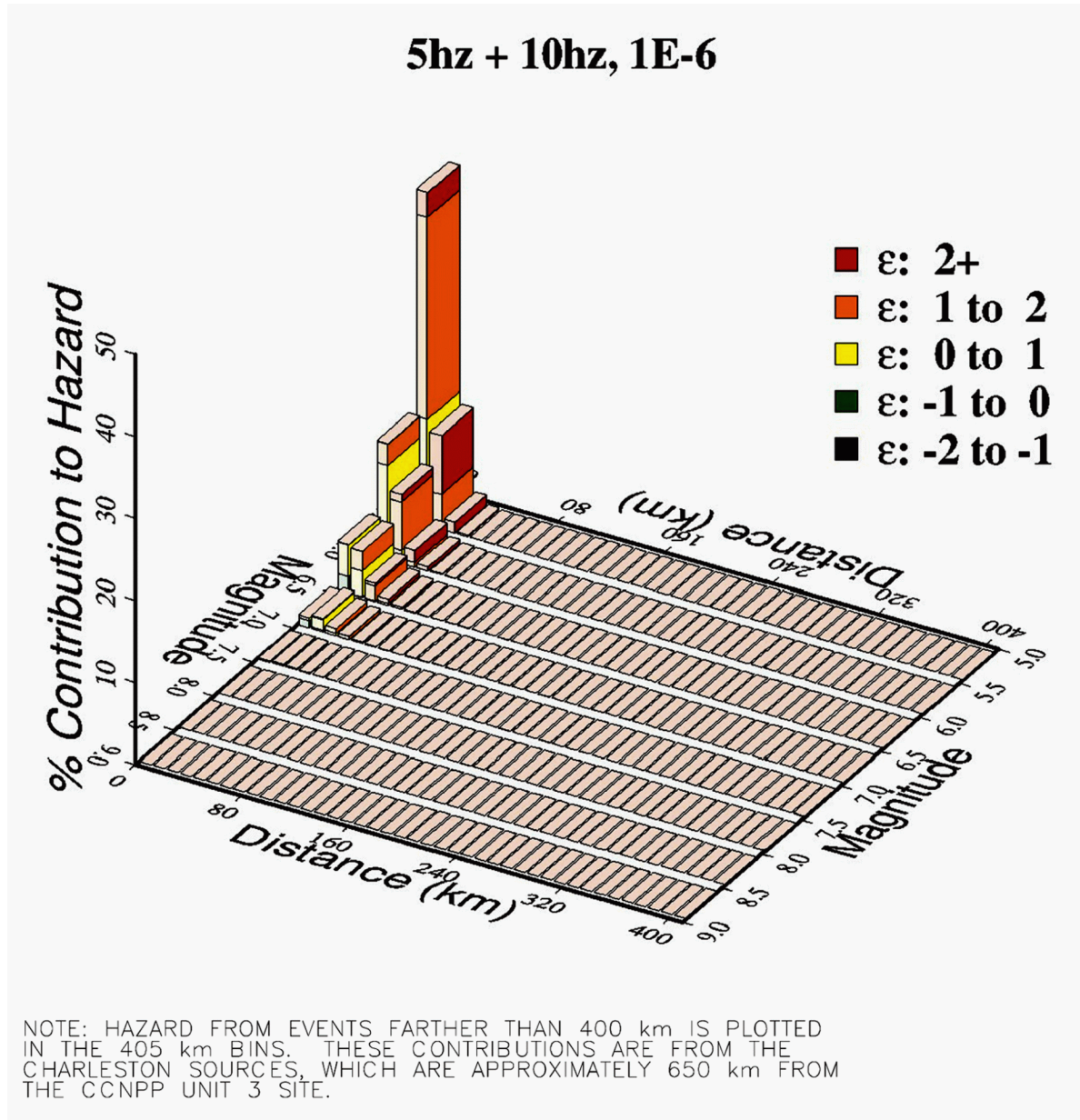


Figure 2.5-91—{Mean Seismic Hazard by Source for Rondout Team, 10 Hz Spectral Acceleration}

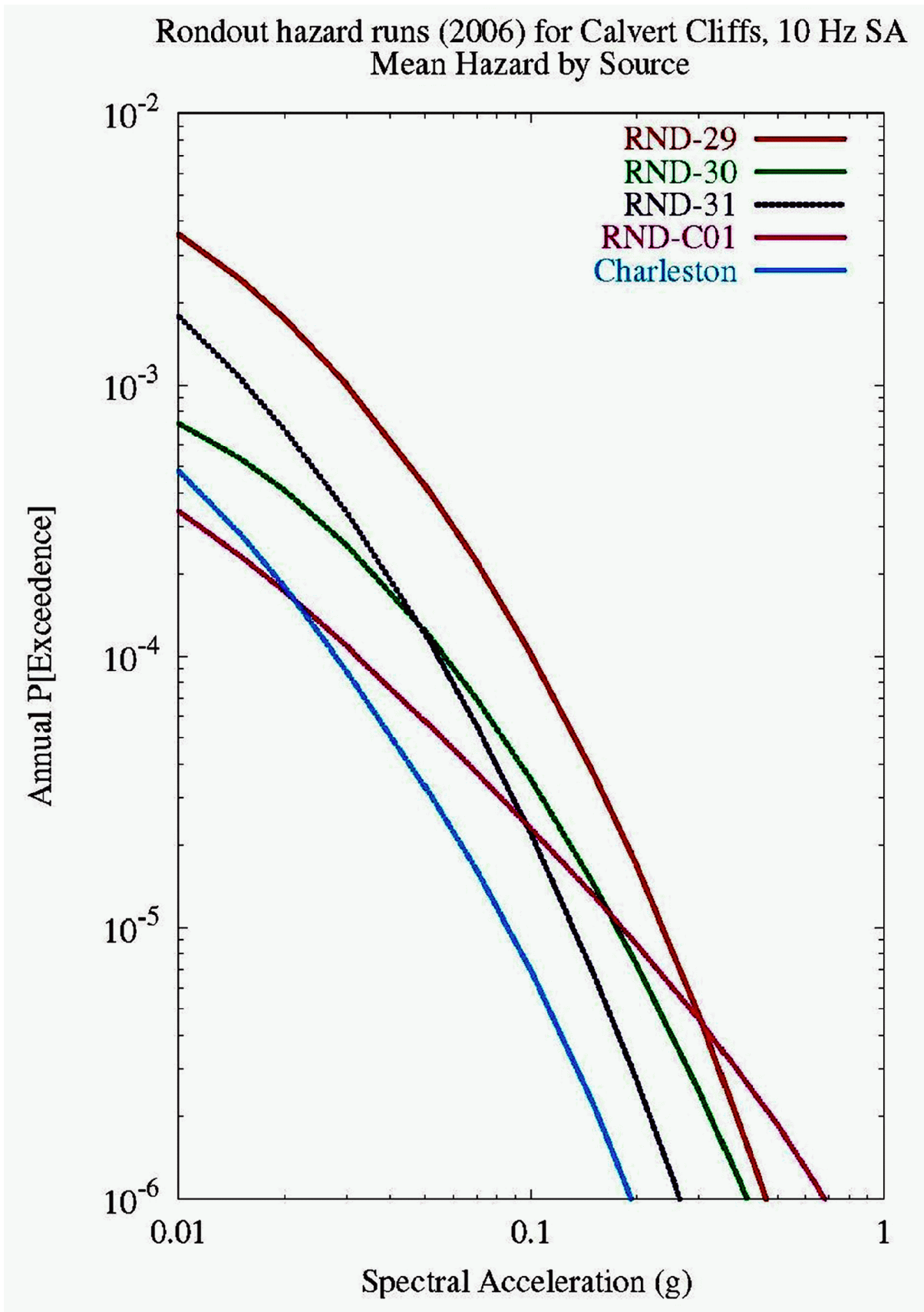


Figure 2.5-92—{Mean Seismic Hazard by Source for Rondout Team, 1 Hz Spectral Acceleration}

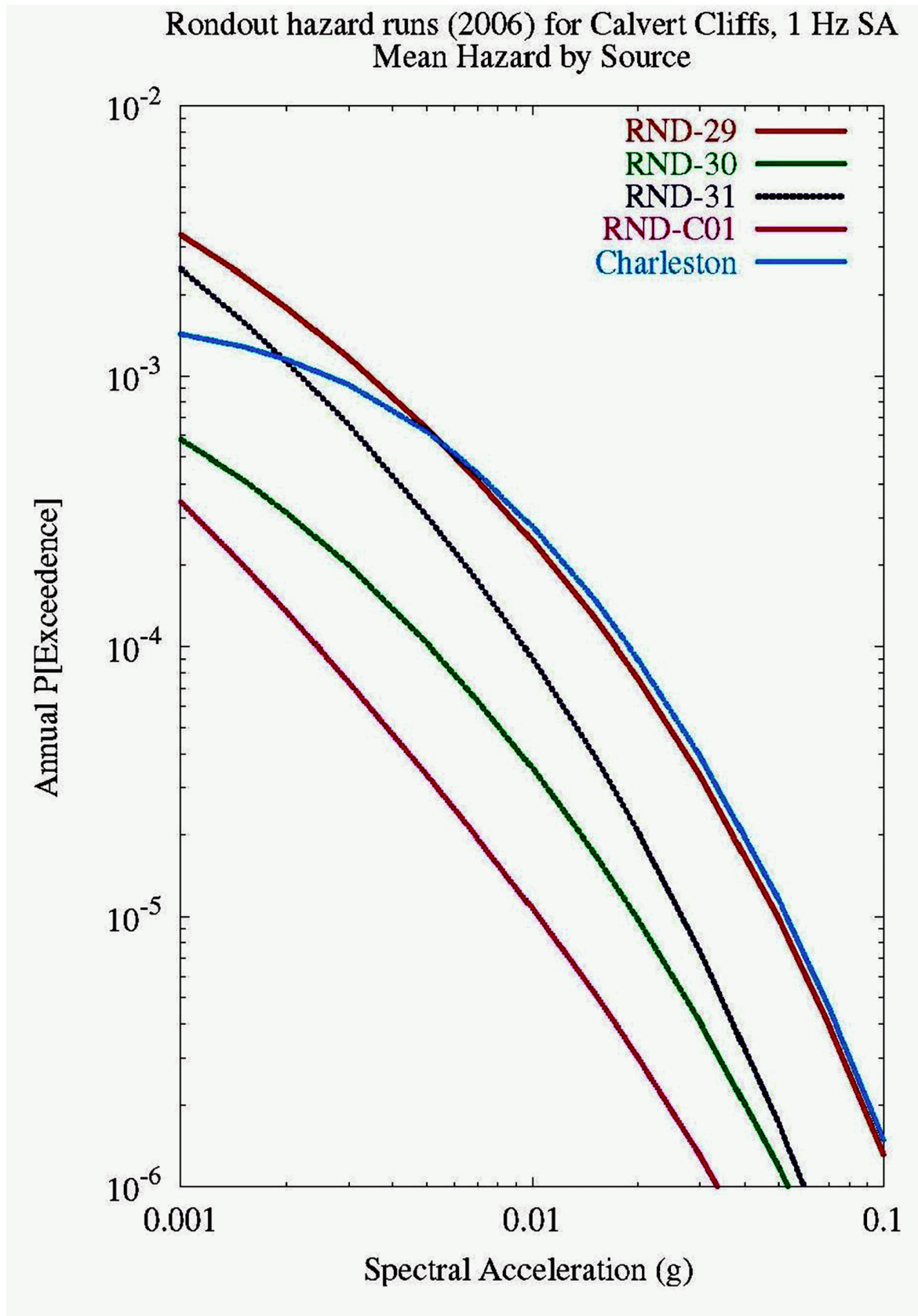


Figure 2.5-93—{Median Seismic Hazard by Source for Rondout Team, 10 Hz Spectral Acceleration}

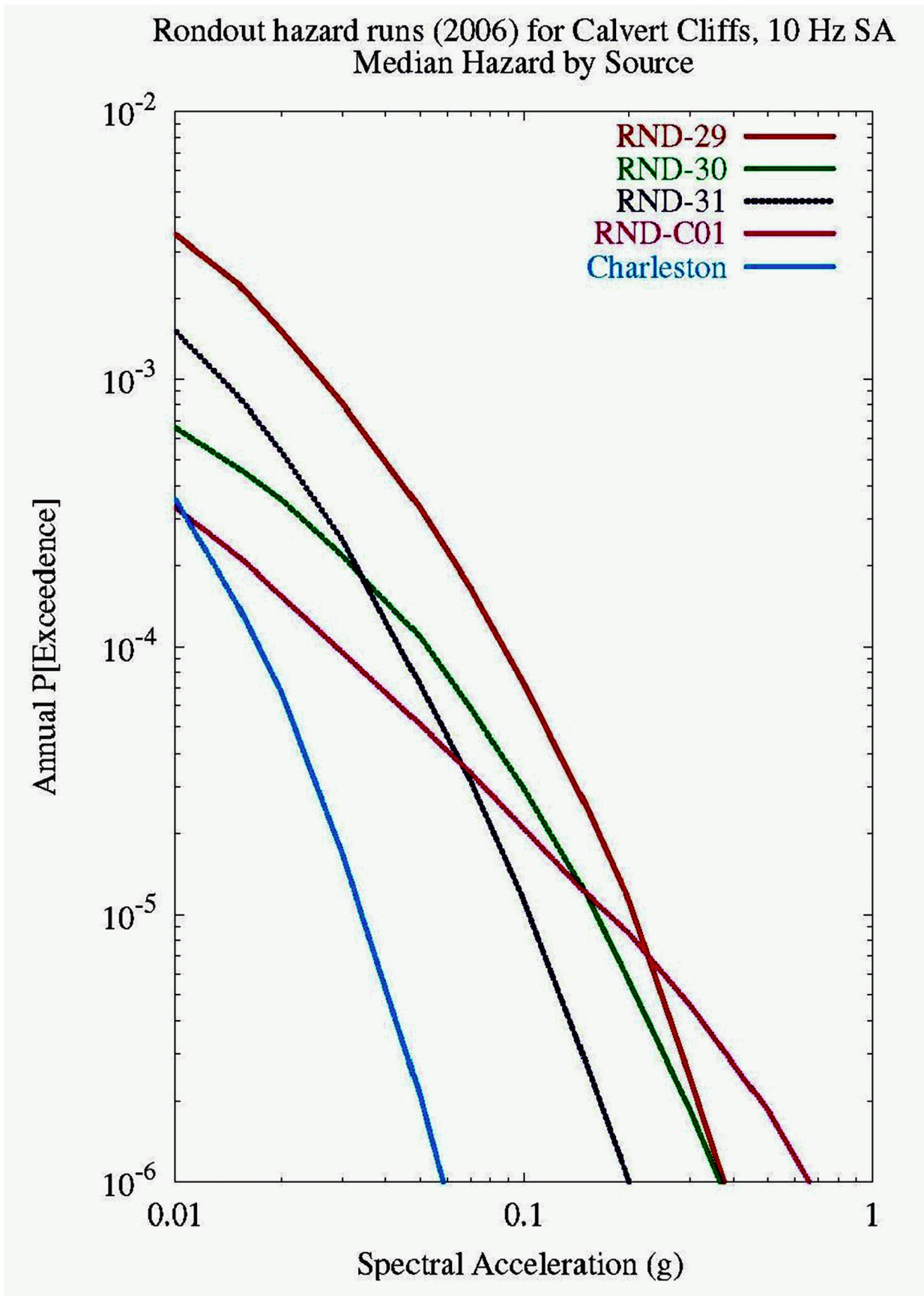


Figure 2.5-94—{Median Seismic Hazard by Source for Rondout Team, 1 Hz Spectral Acceleration}

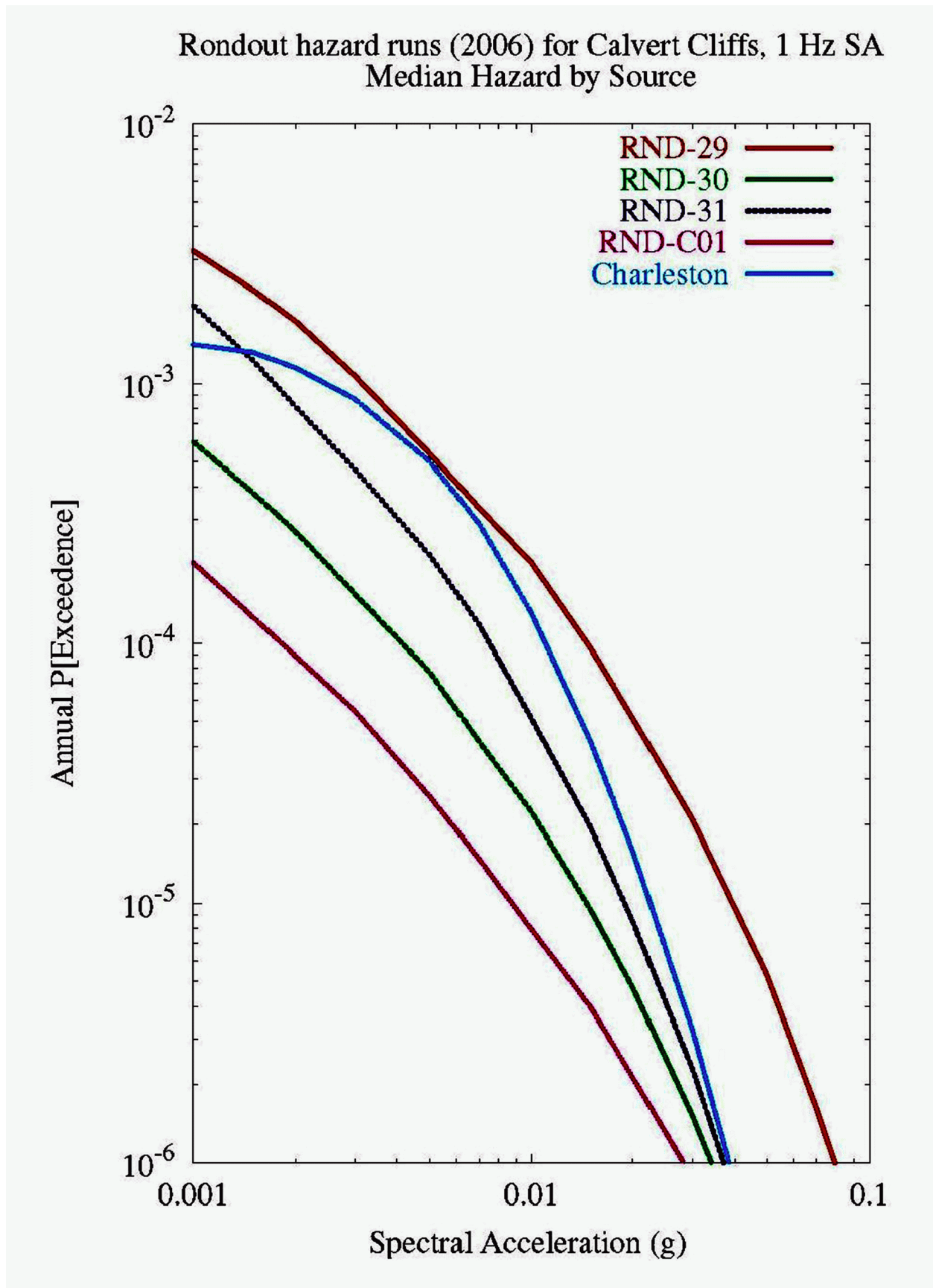


Figure 2.5-95—{Mean and Fractile Rock Hazard Curves for PGA}

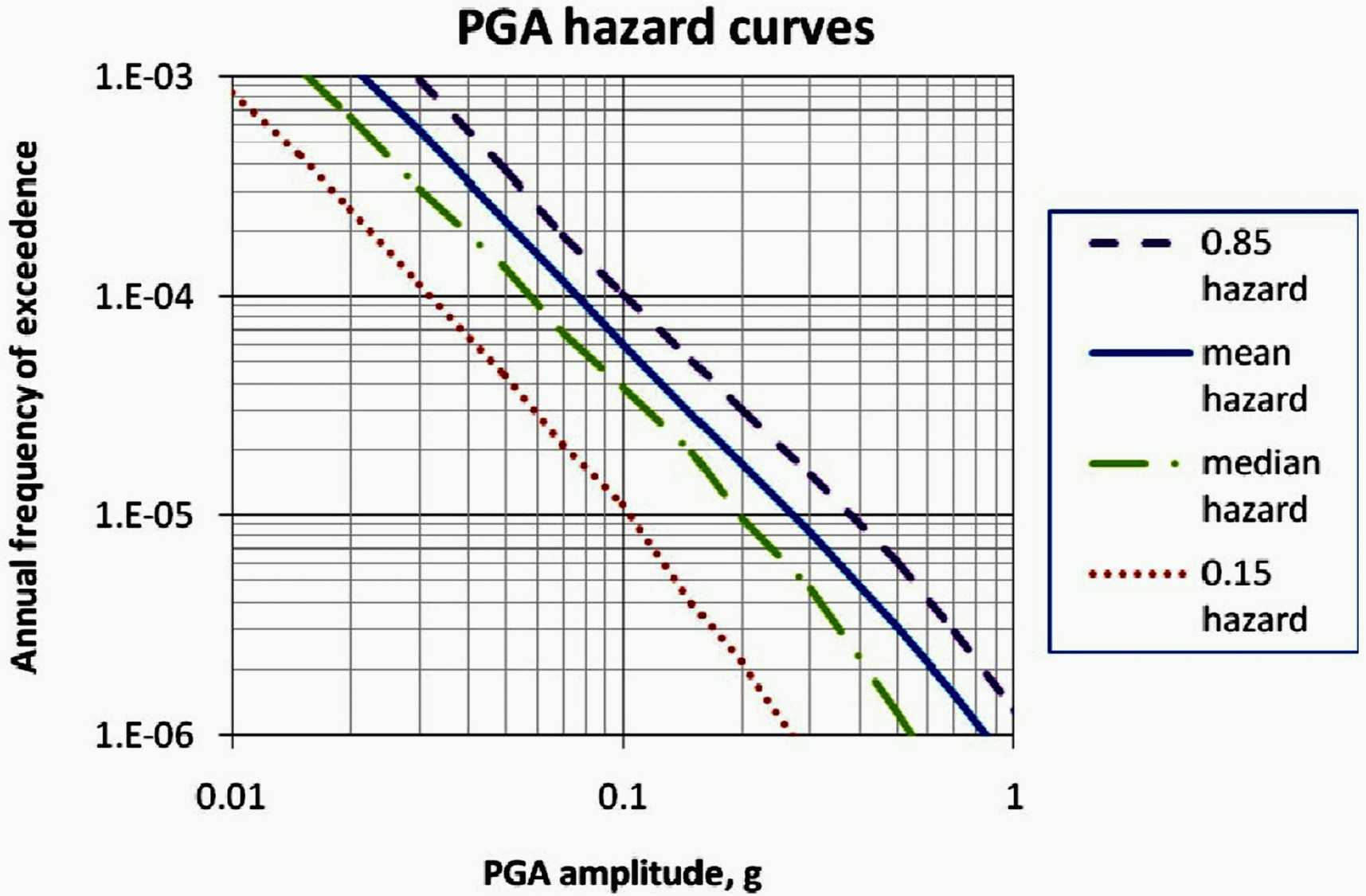
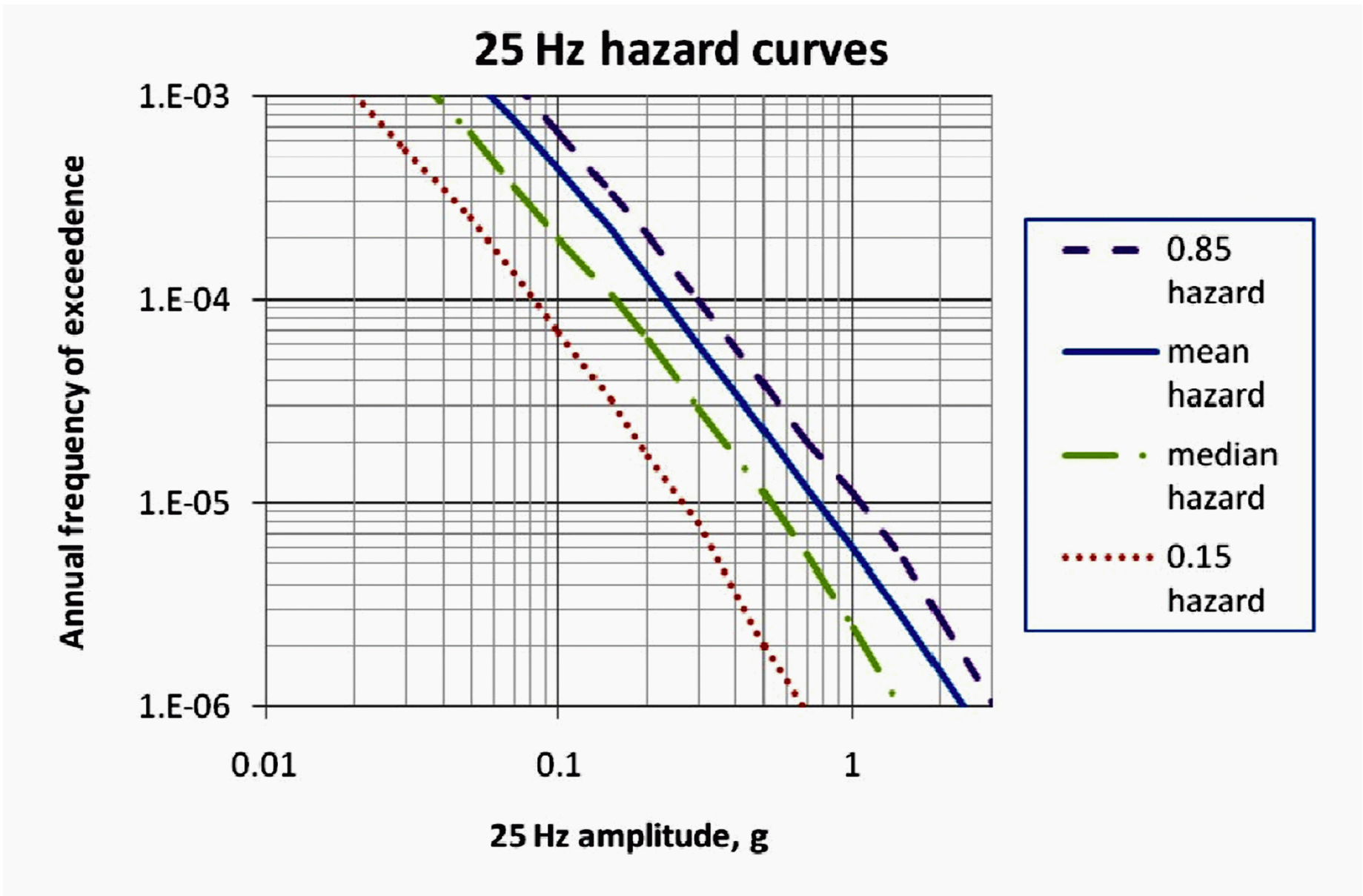


Figure 2.5-96—{Mean and Fractile Rock Hazard Curves for 25 Hz}



Annual frequency of exceedence

25 Hz amplitude, g

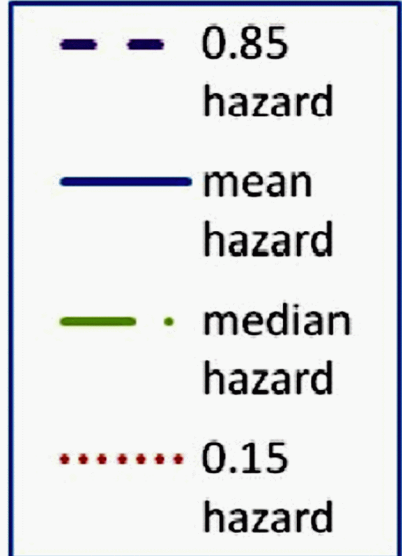


Figure 2.5-97—{Mean and Fractile Rock Hazard Curves for 10 Hz}

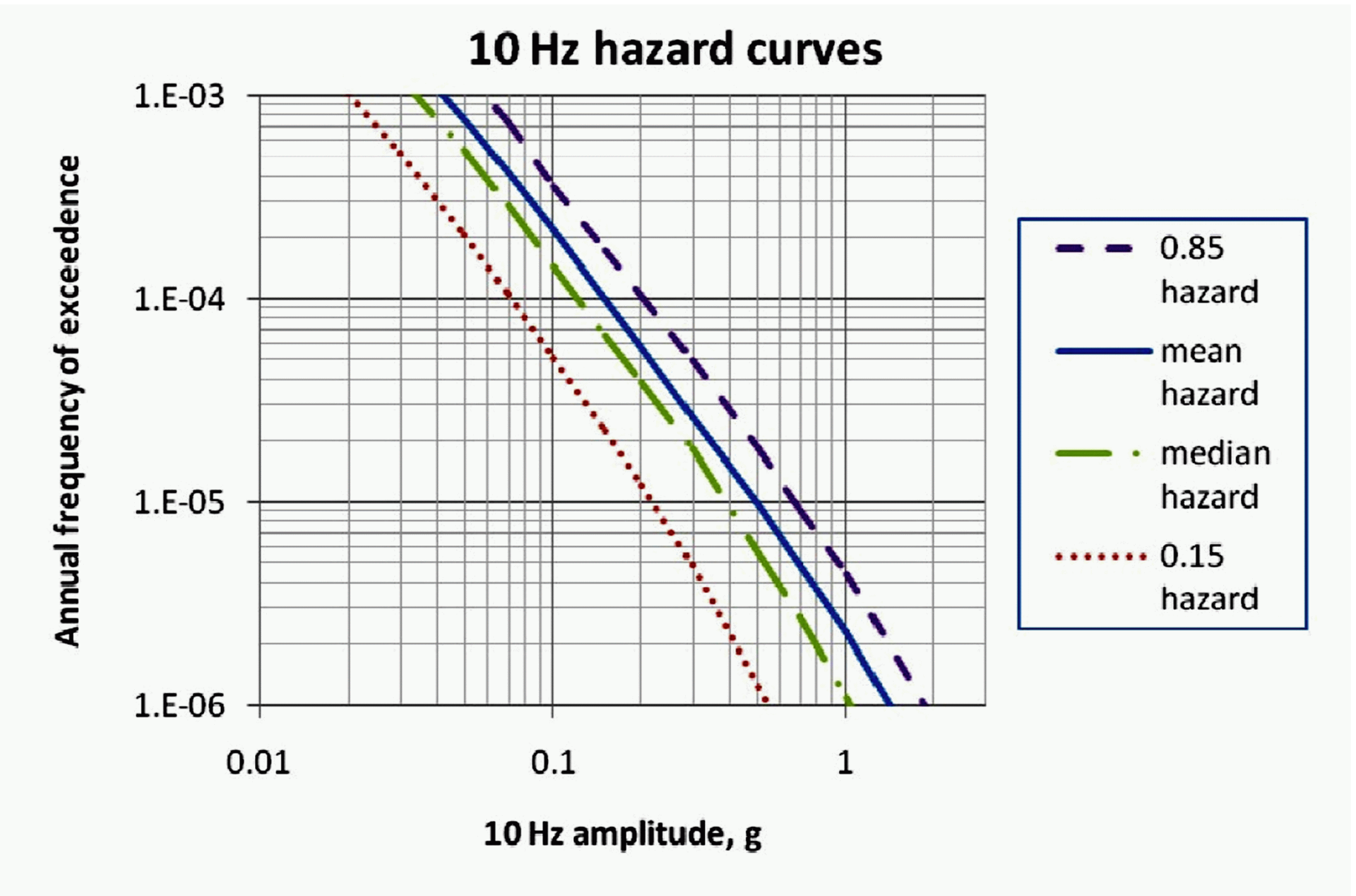


Figure 2.5-98—{Mean and Fractile Rock Hazard Curves for 5 Hz}

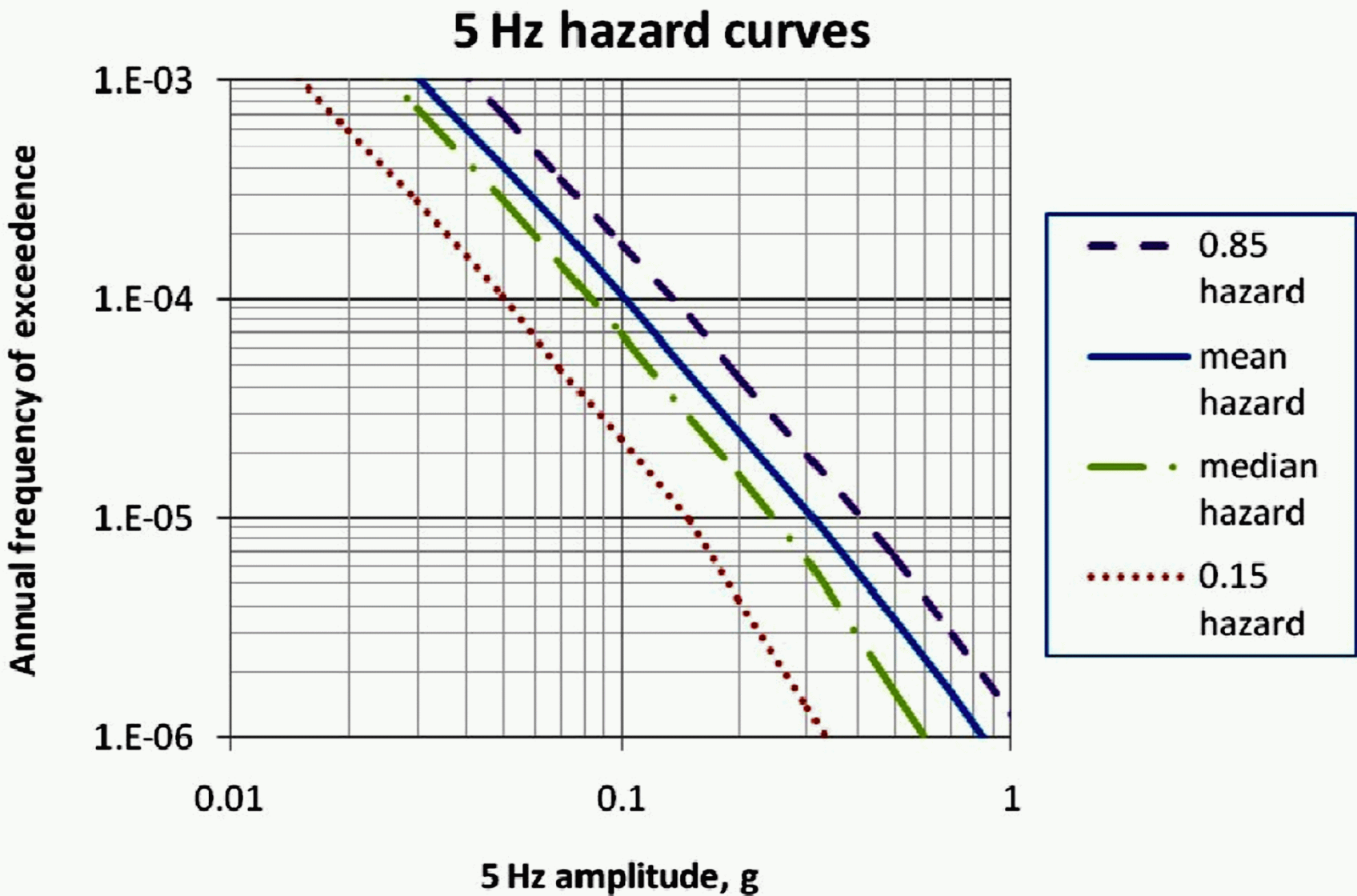


Figure 2.5-99—{Mean and Fractile Rock Hazard Curves for 2.5 Hz}

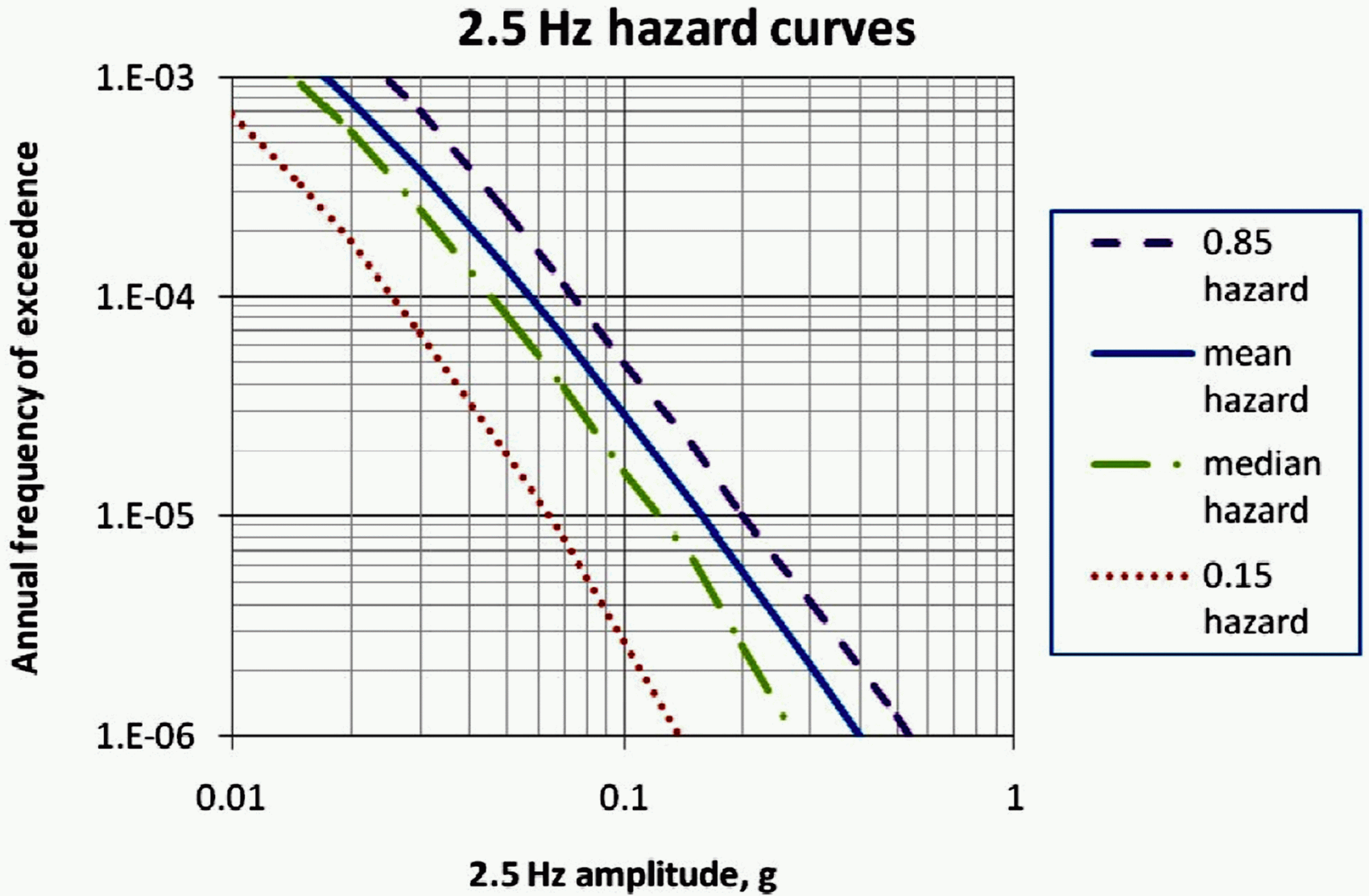
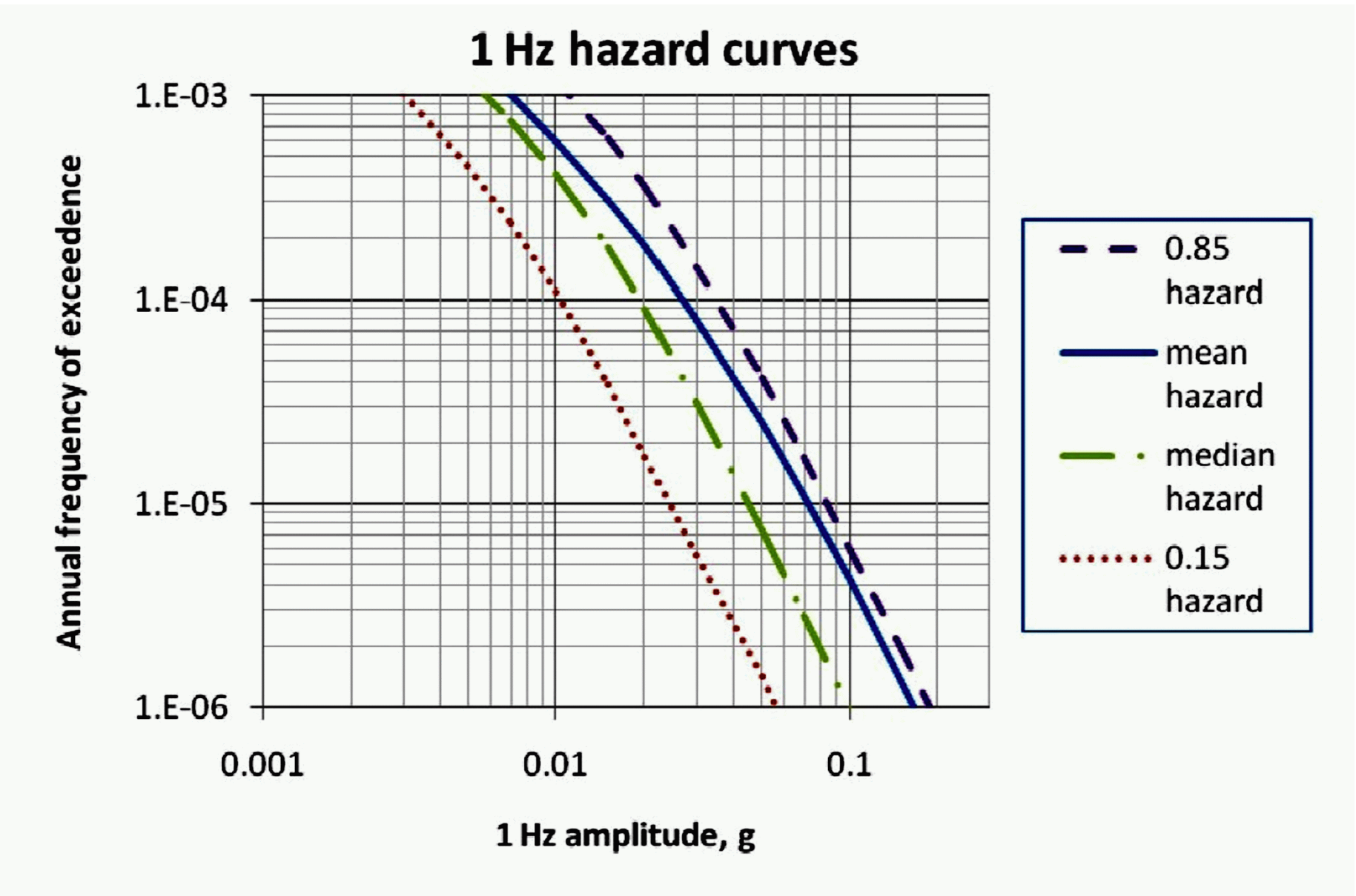
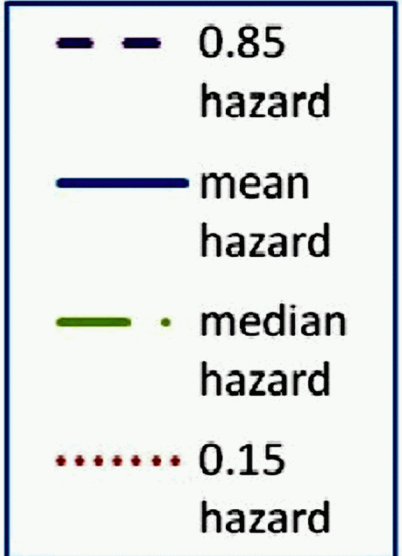


Figure 2.5-100—{Mean and Fractile Rock Hazard Curves for 1 HZ}



Annual frequency of exceedence

1 Hz hazard curves



1 Hz amplitude, g

Figure 2.5-101—{Mean and Fractile Rock Hazard Curves for 0.5 Hz}

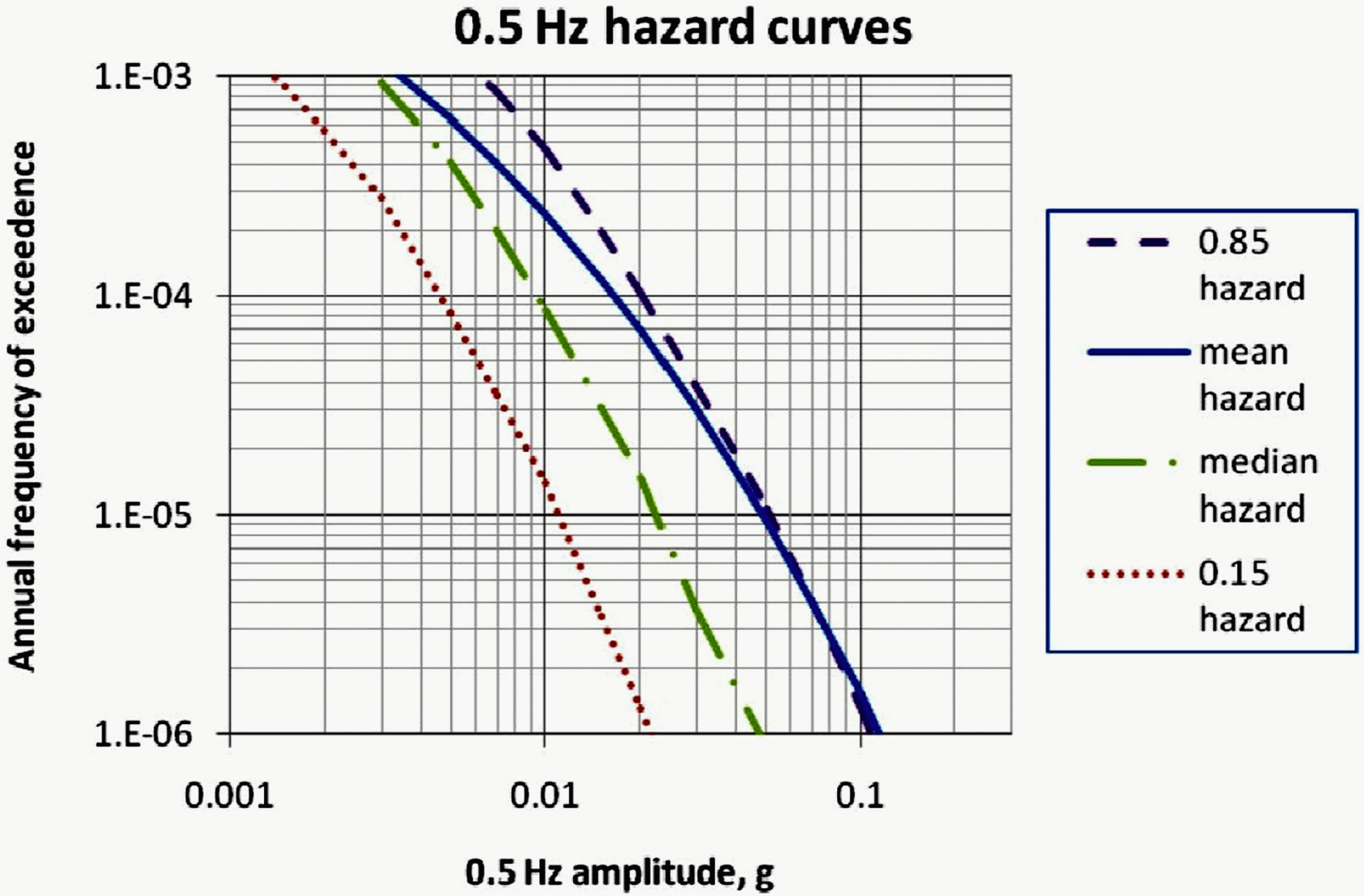


Figure 2.5-102—{CNPP Unit 3 10 Generic Soil Profiles}

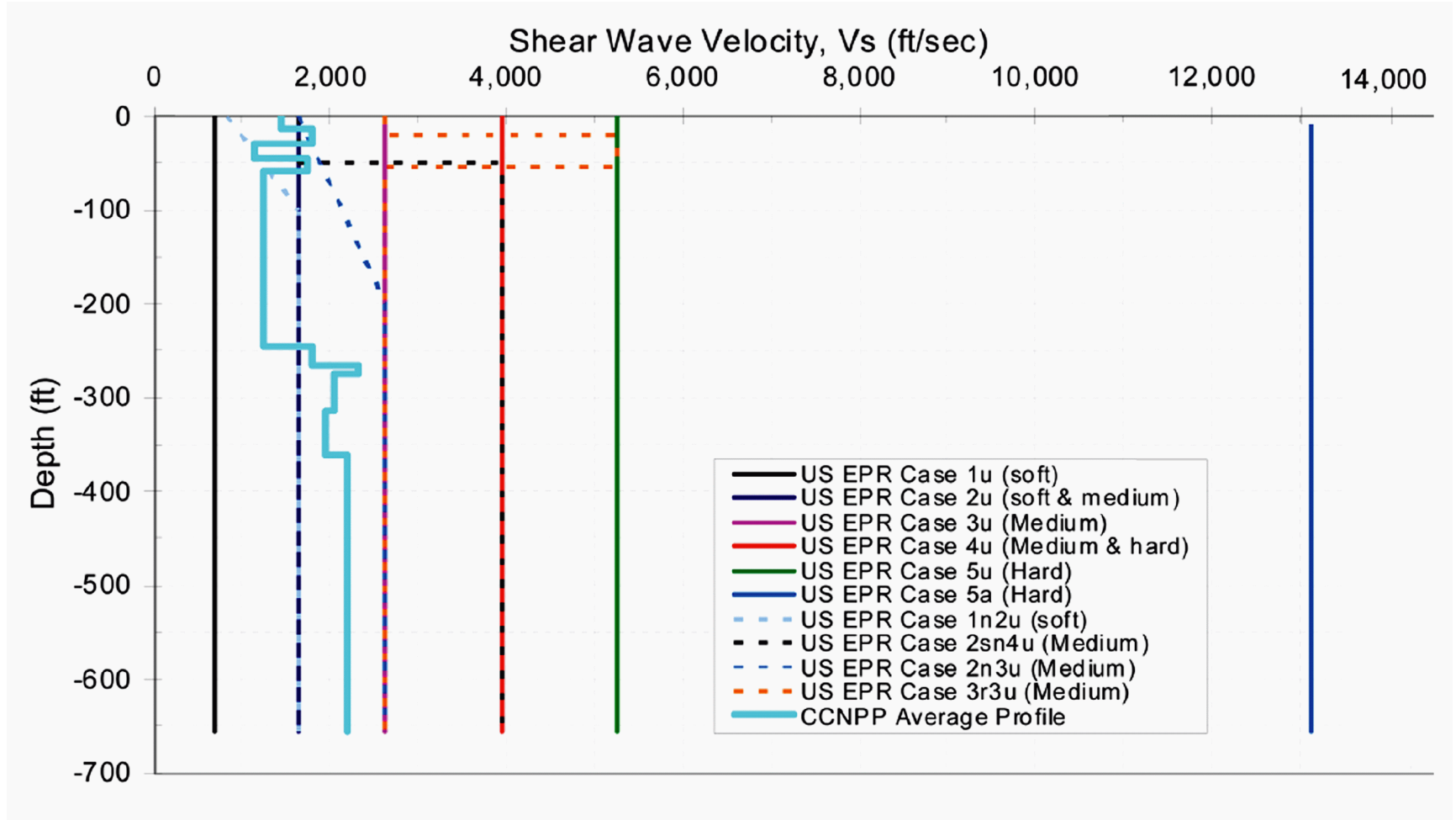


Figure 2.5-103—{Subsurface Investigation Location Plan}

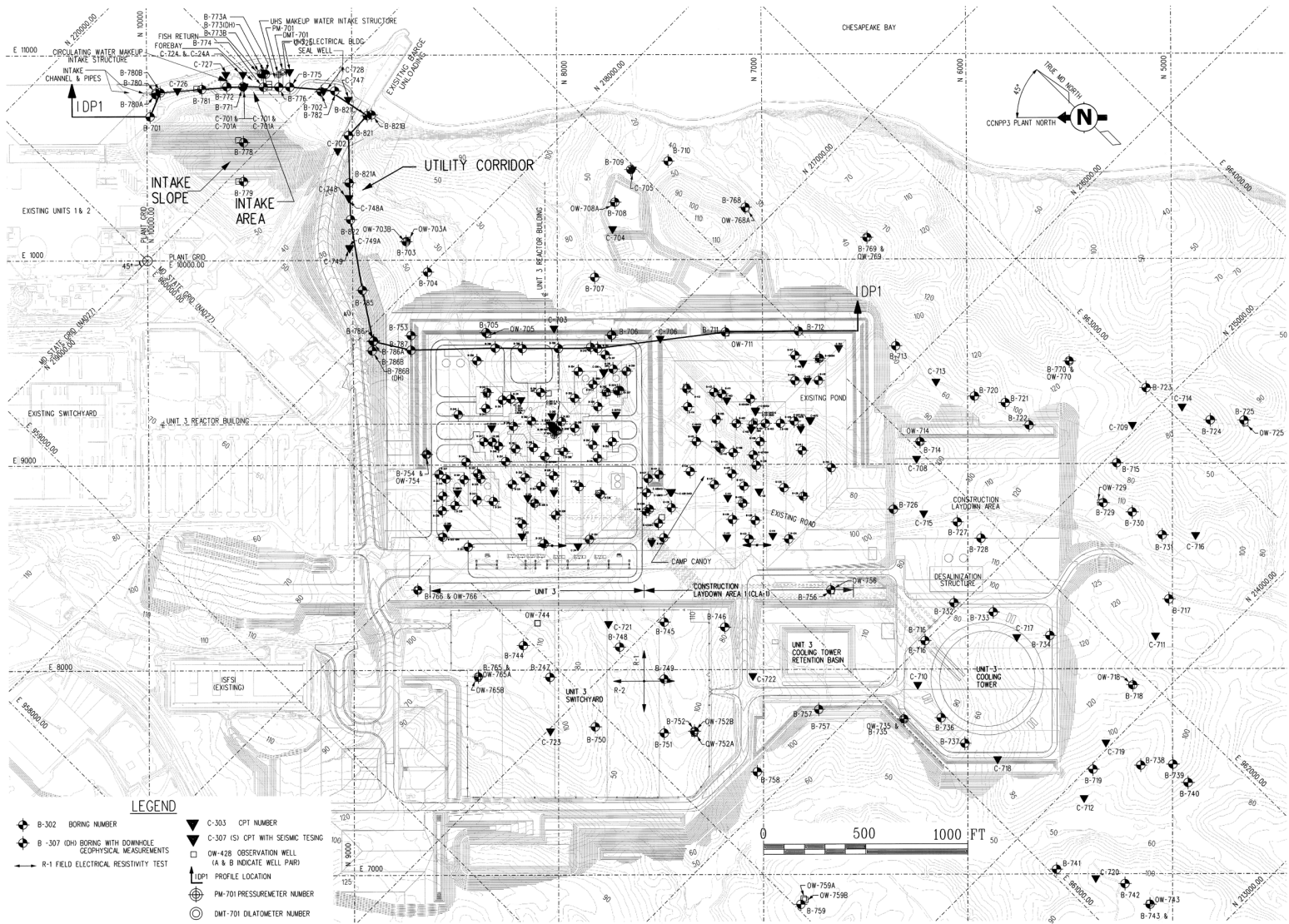
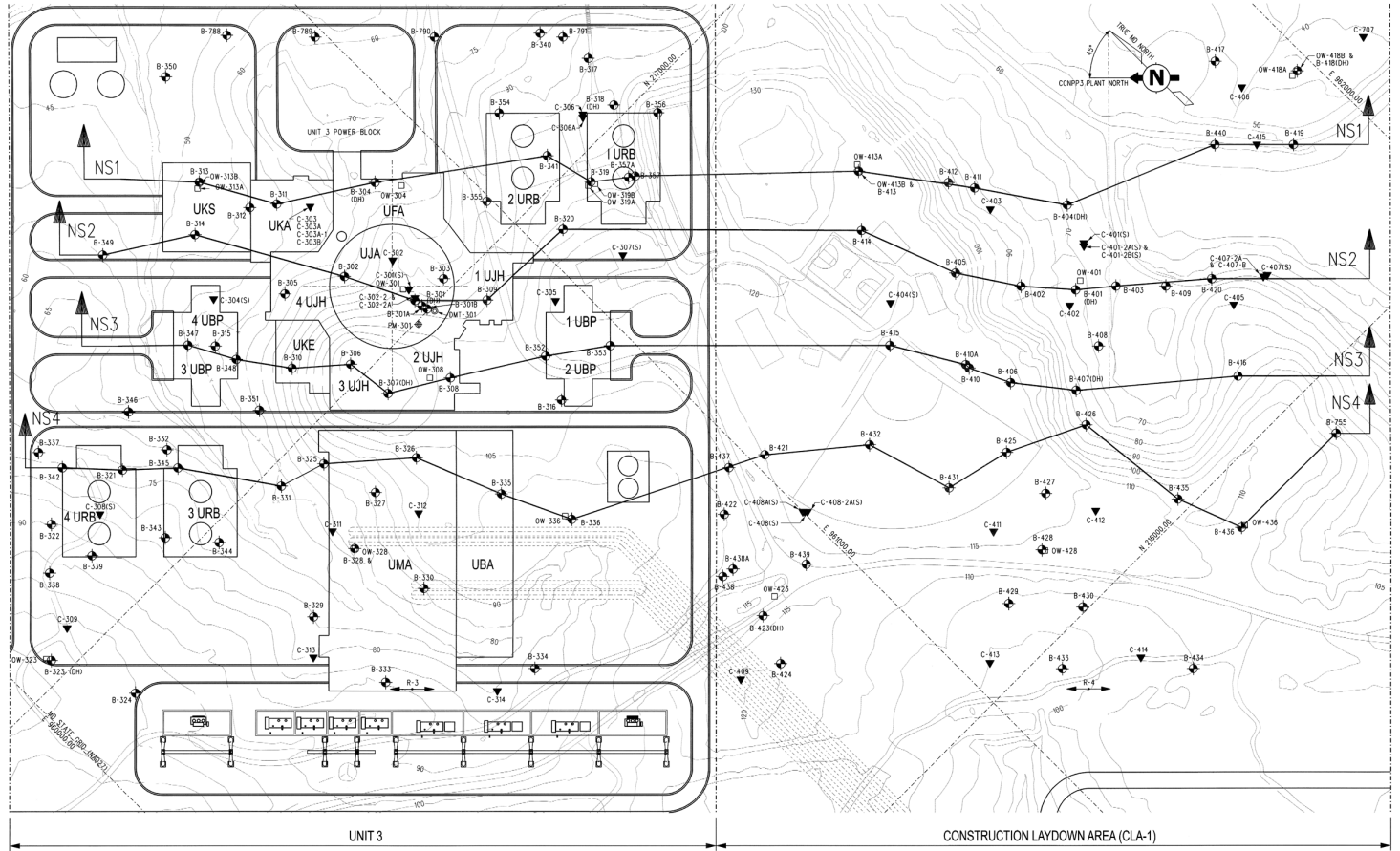


Figure 2.5-104—{Subsurface Investigation Location Plan (Powerblock) **CCNPP Unit 3**}



- LEGEND**
- | | | | |
|---------|---|---|---|
| 1-4 UBP | EMERGENCY POWER GENERATING BUILDINGS | ◆ | B-302 BORING NUMBER |
| UFA | FUEL BUILDING | ◆ | B-307(DH) BORING WITH DOWNHOLE GEOPHYSICAL MEASUREMENTS |
| UJA | REACTOR BUILDING | ▼ | C-303 CPT NUMBER |
| 1-4 UJH | SAFEGUARD BUILDINGS MECHANICAL/ELECTRICAL | ▼ | C-307(S) CPT WITH SEISMIC TESTING |
| UKA | NUCLEAR AUXILIARY BUILDING | ⊕ | PM-301 PRESSUREMETER NUMBER |
| UKE | ACCESS BUILDING | ⊕ | DMT-301 DILATOMETER NUMBER |
| UKS | RADIOACTIVE WASTE PROCESSING BUILDING | □ | OW-428 OBSERVATION WELL (A&B INDICATE WELL PAIR) |
| UMA | TURBINE BUILDING | → | R-1 FIELD ELECTRICAL RESISTIVITY TEST |
| UBA | SWITCHGEAR BUILDING | ▲ | NS1 PROFILE LOCATION |
| 1-4 URB | ESSENTIAL SERVICE WATER BUILDING | | |



Figure 2.5-105—{Test Pit Test Location Plan}

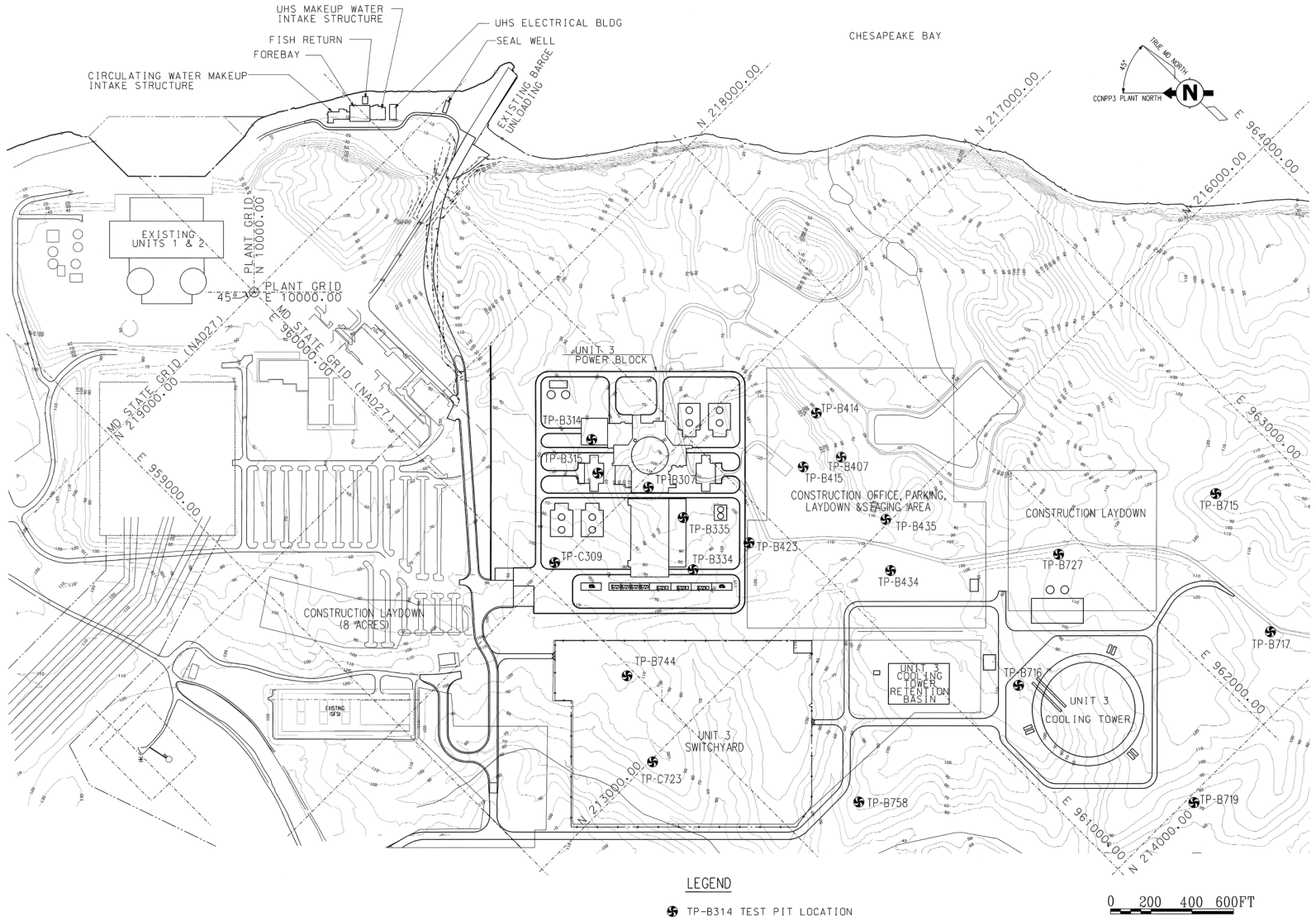
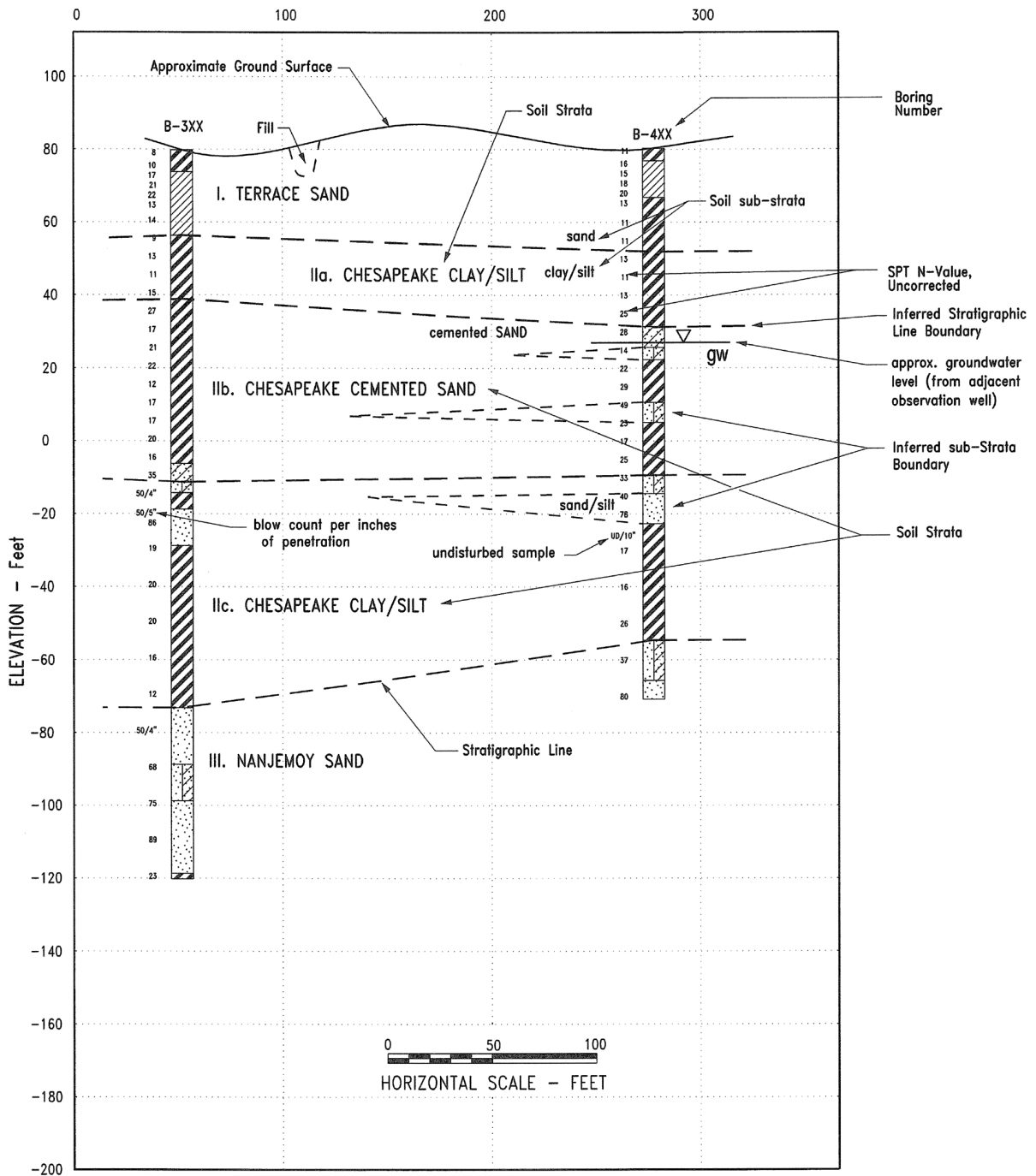


Figure 2.5-106—{Subsurface Profile Legend}



Notes - Boring locations & elevations were obtained from as-built survey
 Soil strata boundaries are inferred from boring locations & may differ from actual soil conditions.

Figure 2.5-107—{Inferred Subsurface Profile NS-1}

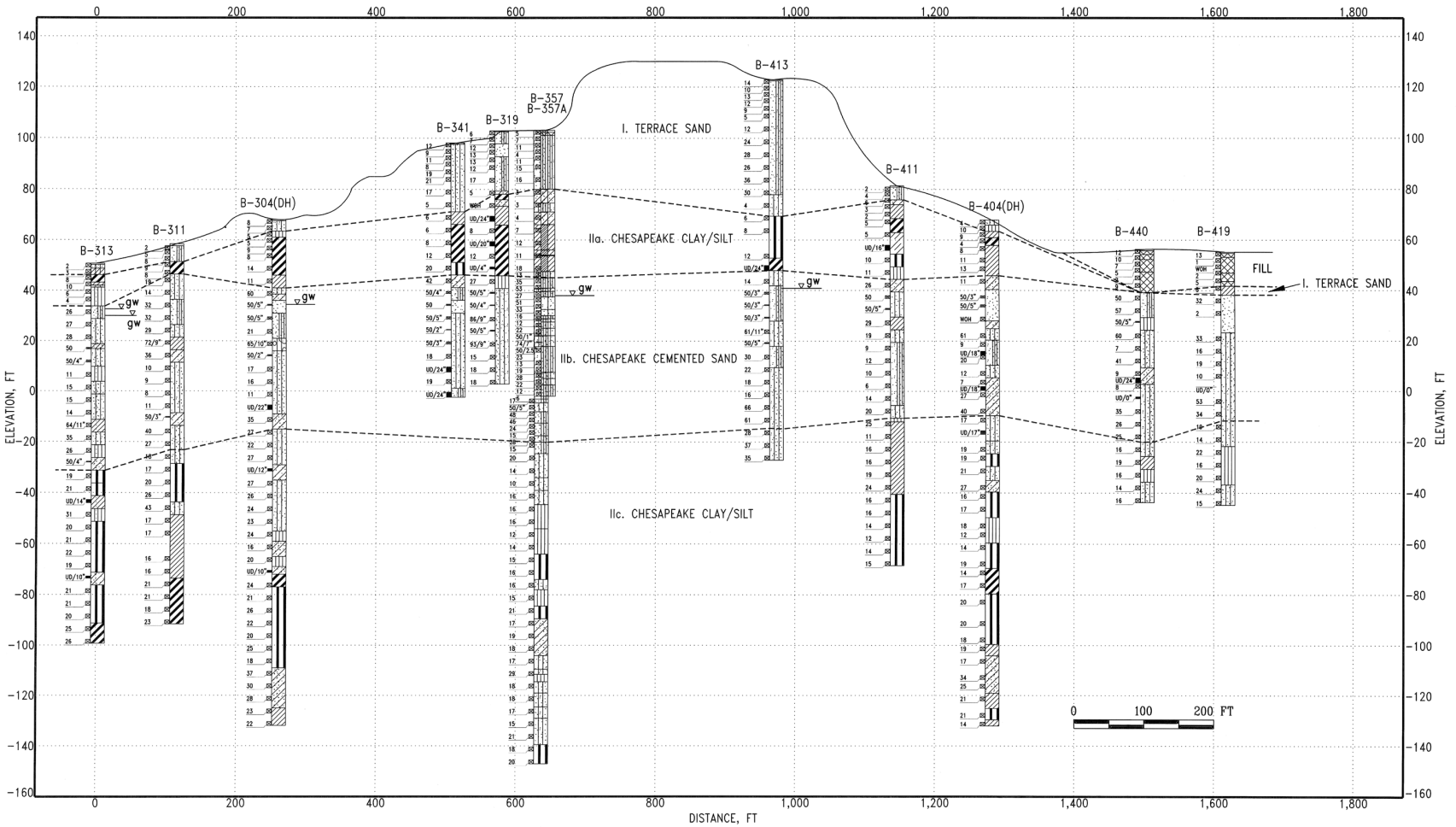


Figure 2.5-108—{Inferred Subsurface Profile NS-2}

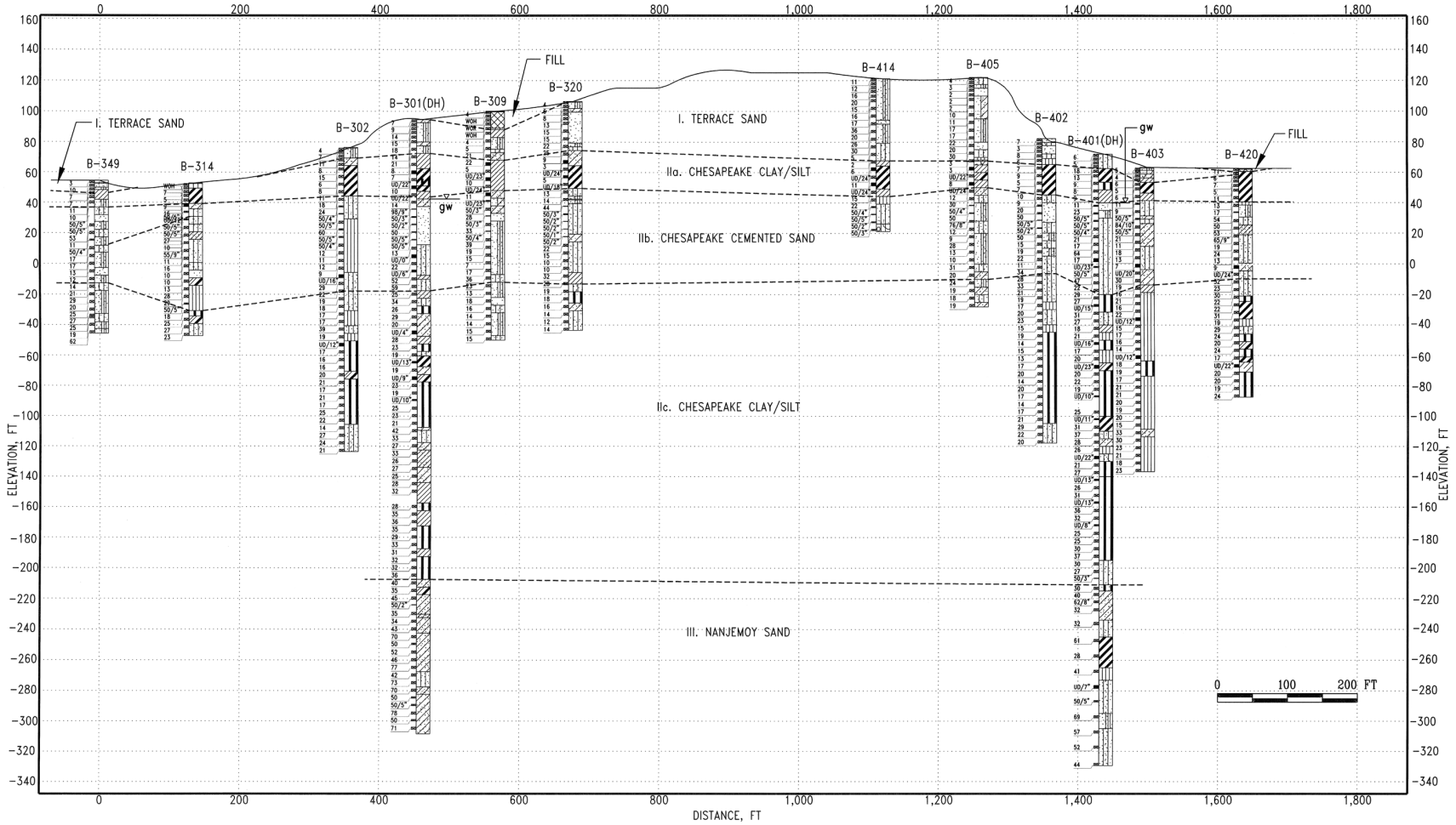


Figure 2.5-109—{Inferred Subsurface Profile NS-3}

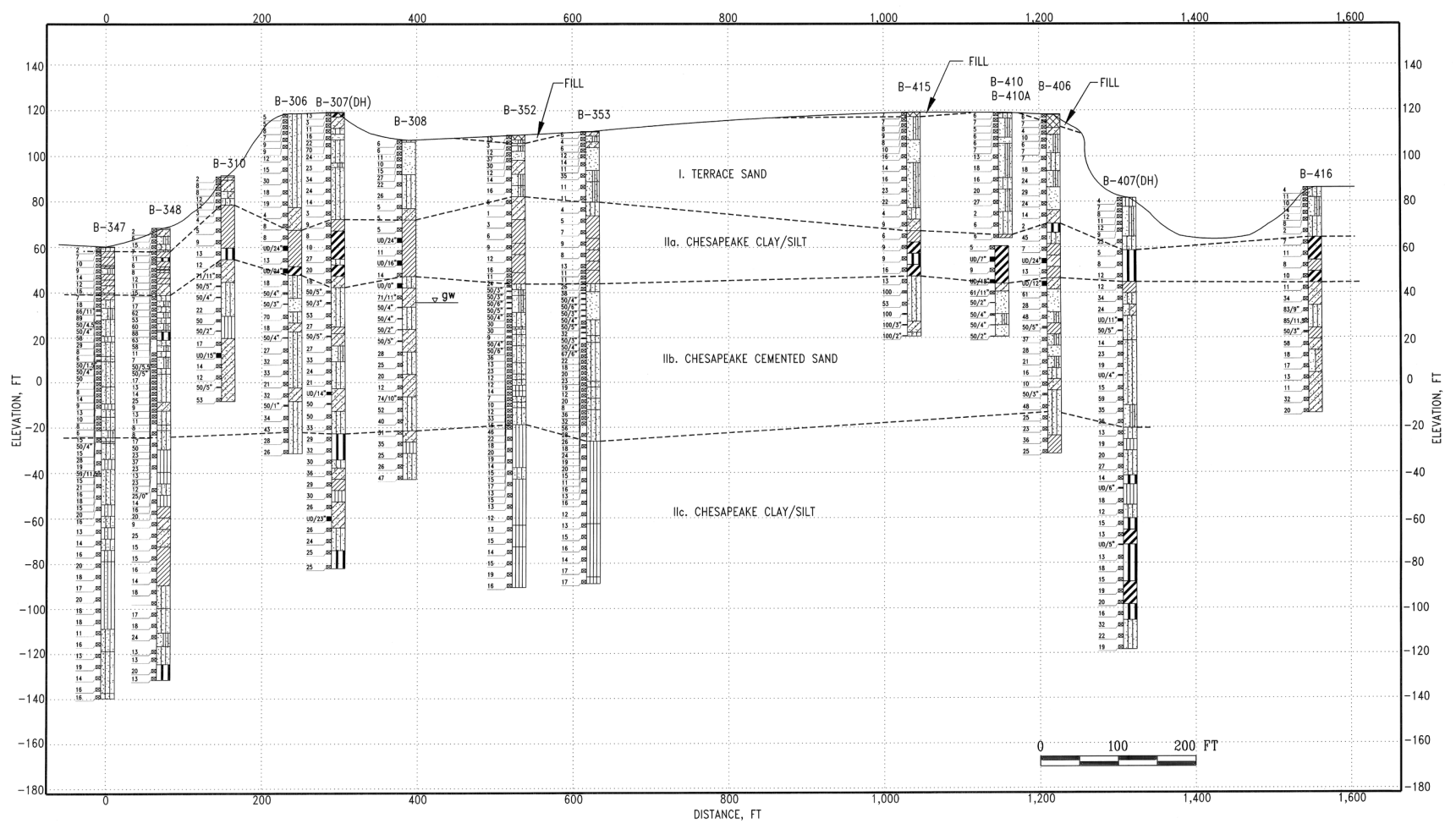


Figure 2.5-110—[Inferred Subsurface Profile NS-4]

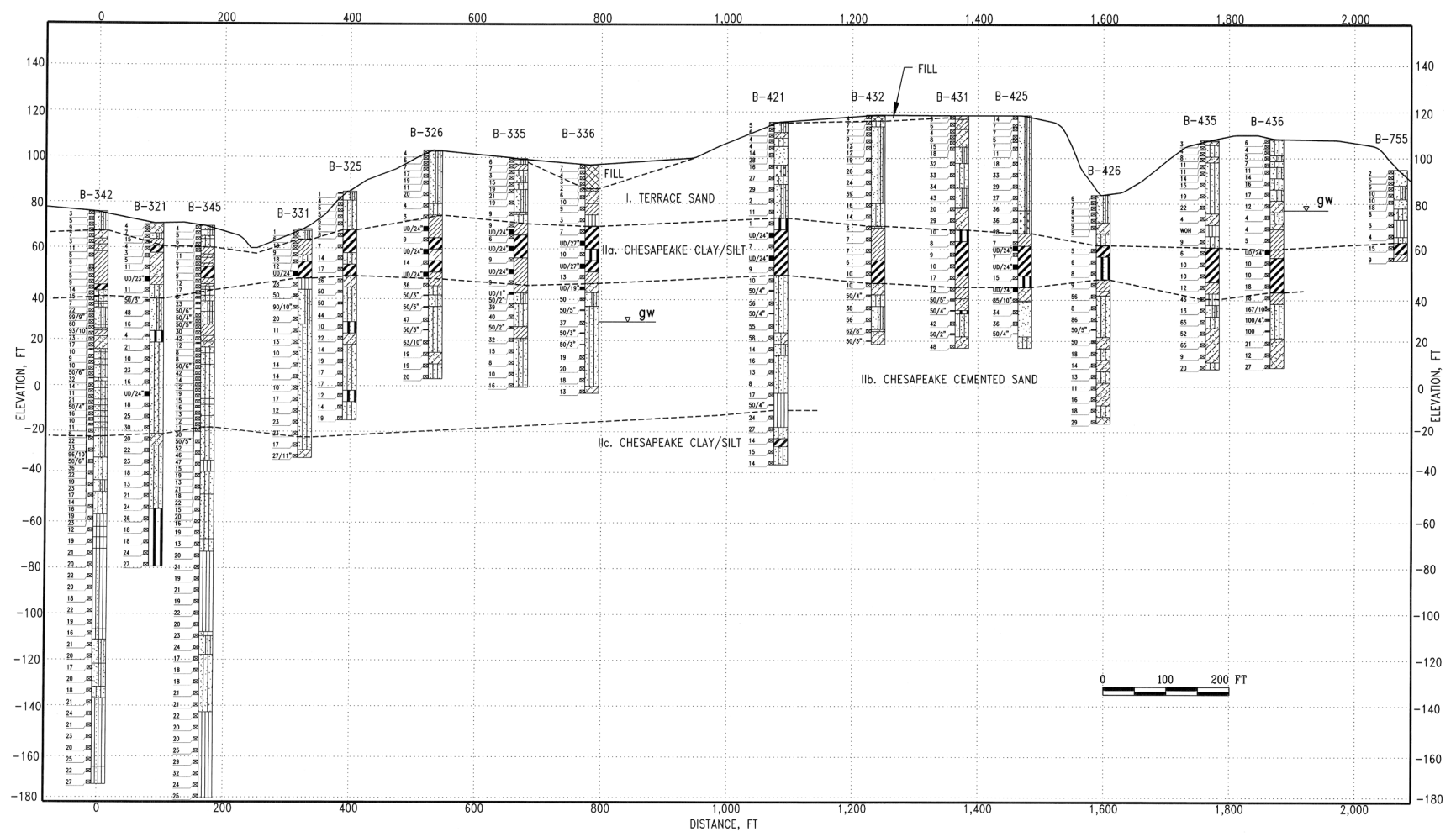


Figure 2.5-111—{Inferred Subsurface profile IDP-1}

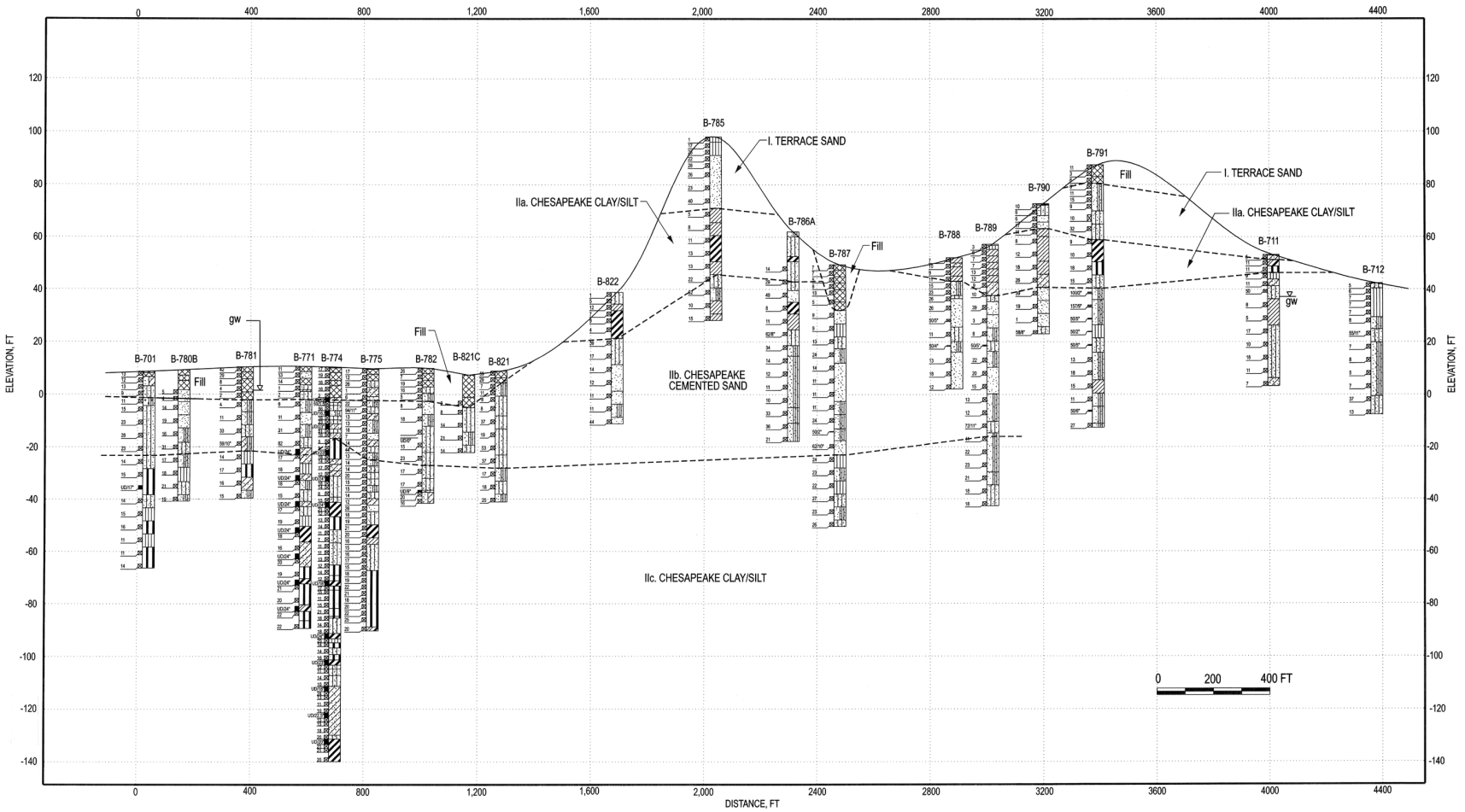


Figure 2.5-112—{Measured Standard Penetration Test N-Values}

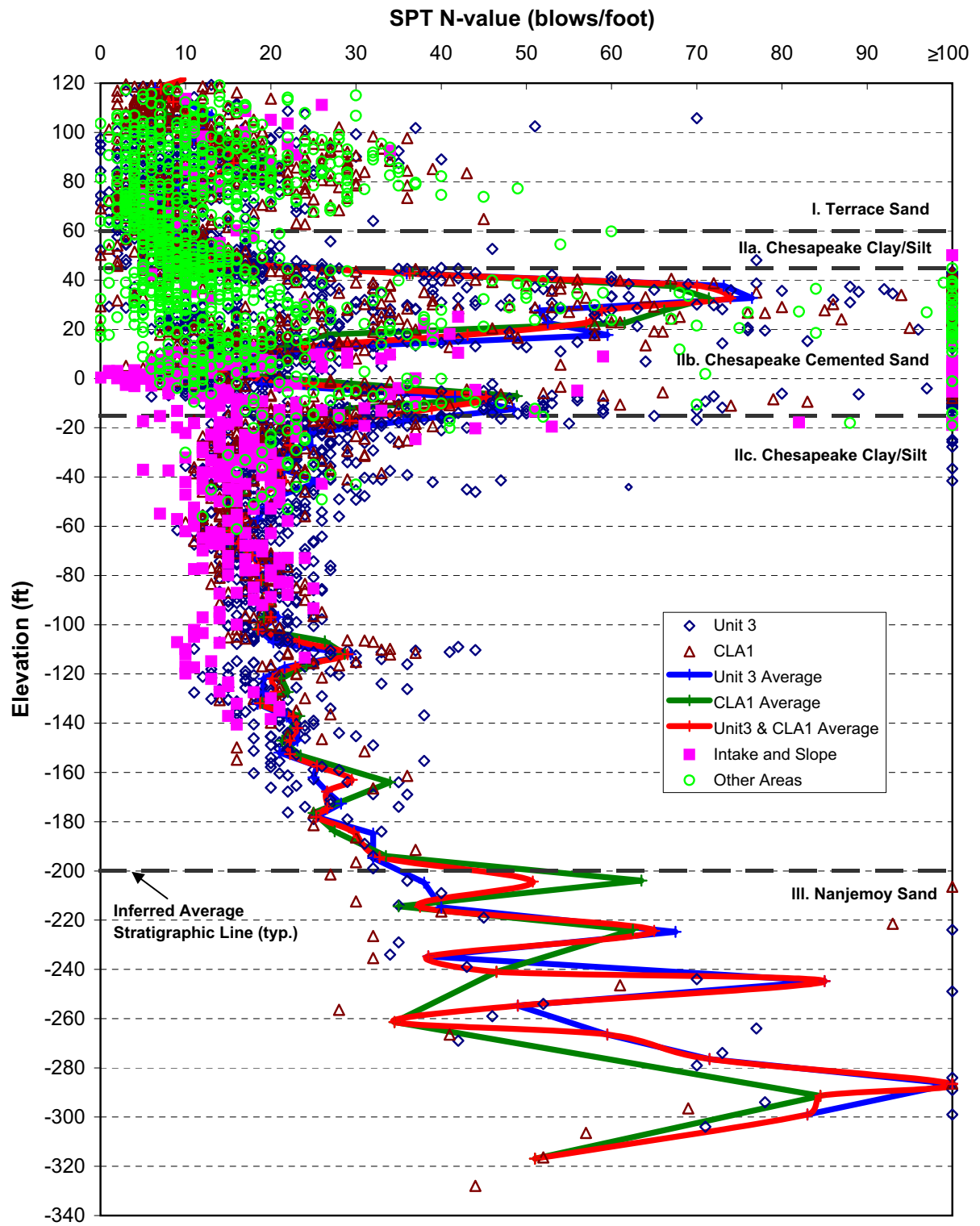


Figure 2.5-113—{Measured CPT TIP Resistance Values}

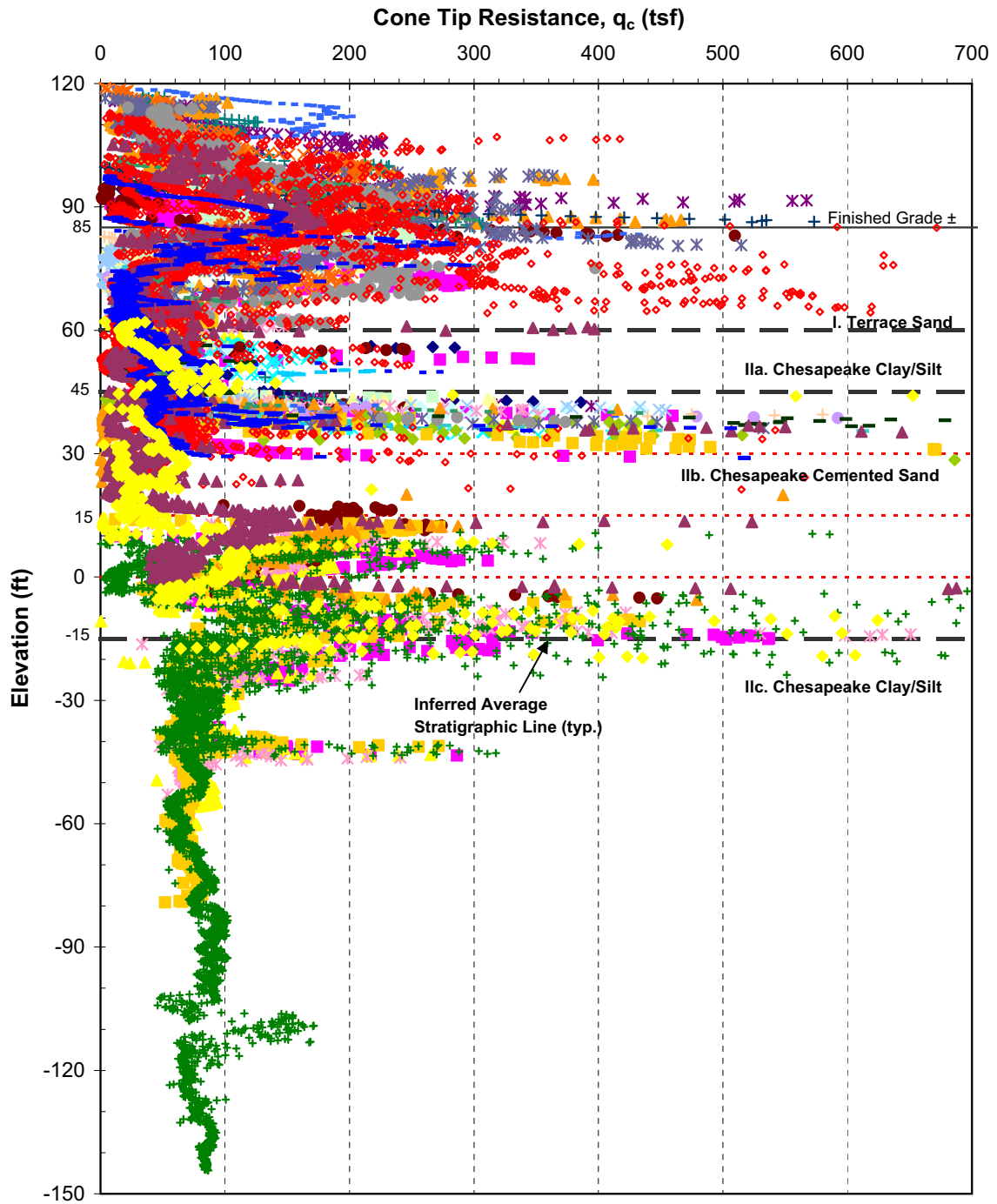


Figure 2.5-114—{Water Contents and Limits Profile}

