

The following figures have been corrected and replaced as of June 27, 2012

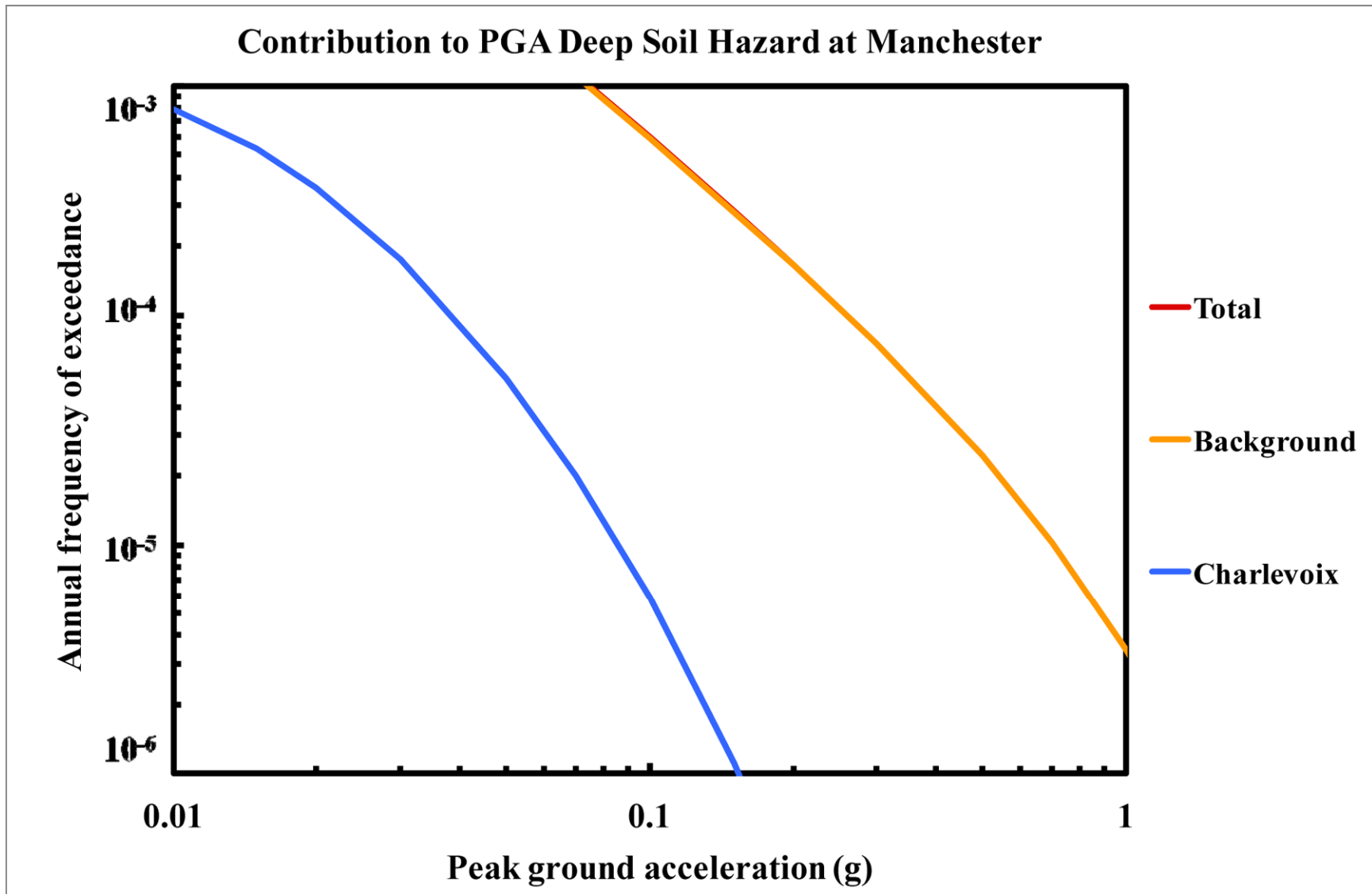


Figure 8.2-5r  
Manchester PGA deep soil hazard: total and contribution by RLME and background. Corrected on June 27, 2012.

Manchester—Rock  
Seismotectonic Source NAP—Case E  
1 Hz Sensitivity to 8 Realizations

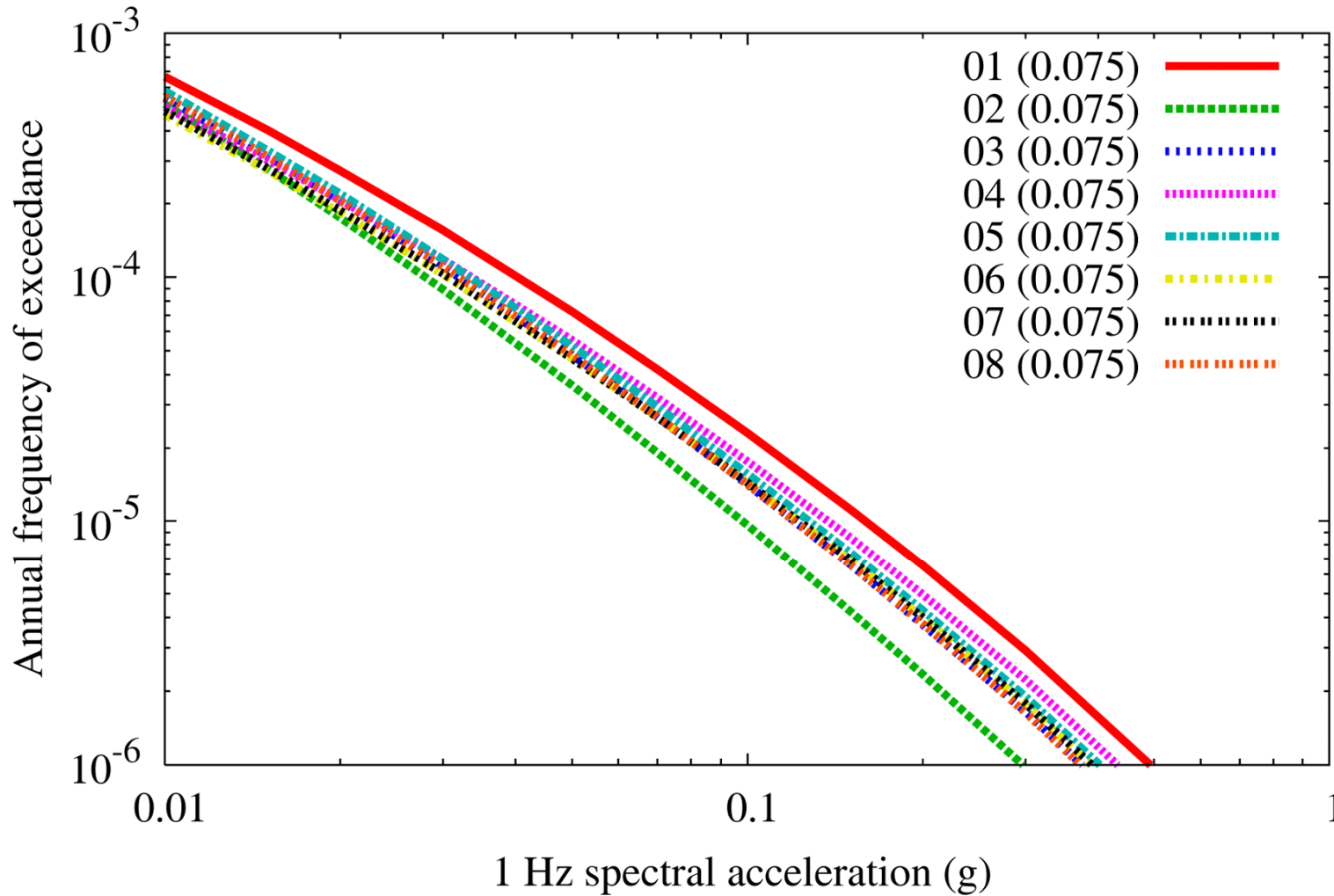


Figure 8.2-5gg  
Manchester 1 Hz rock hazard: sensitivity to eight realizations for source NAP, Case E. Corrected on June 27, 2012.

Wabash Valley RLME  
1 Hz Sensitivity to Rupture Orientation  
Central Illinois

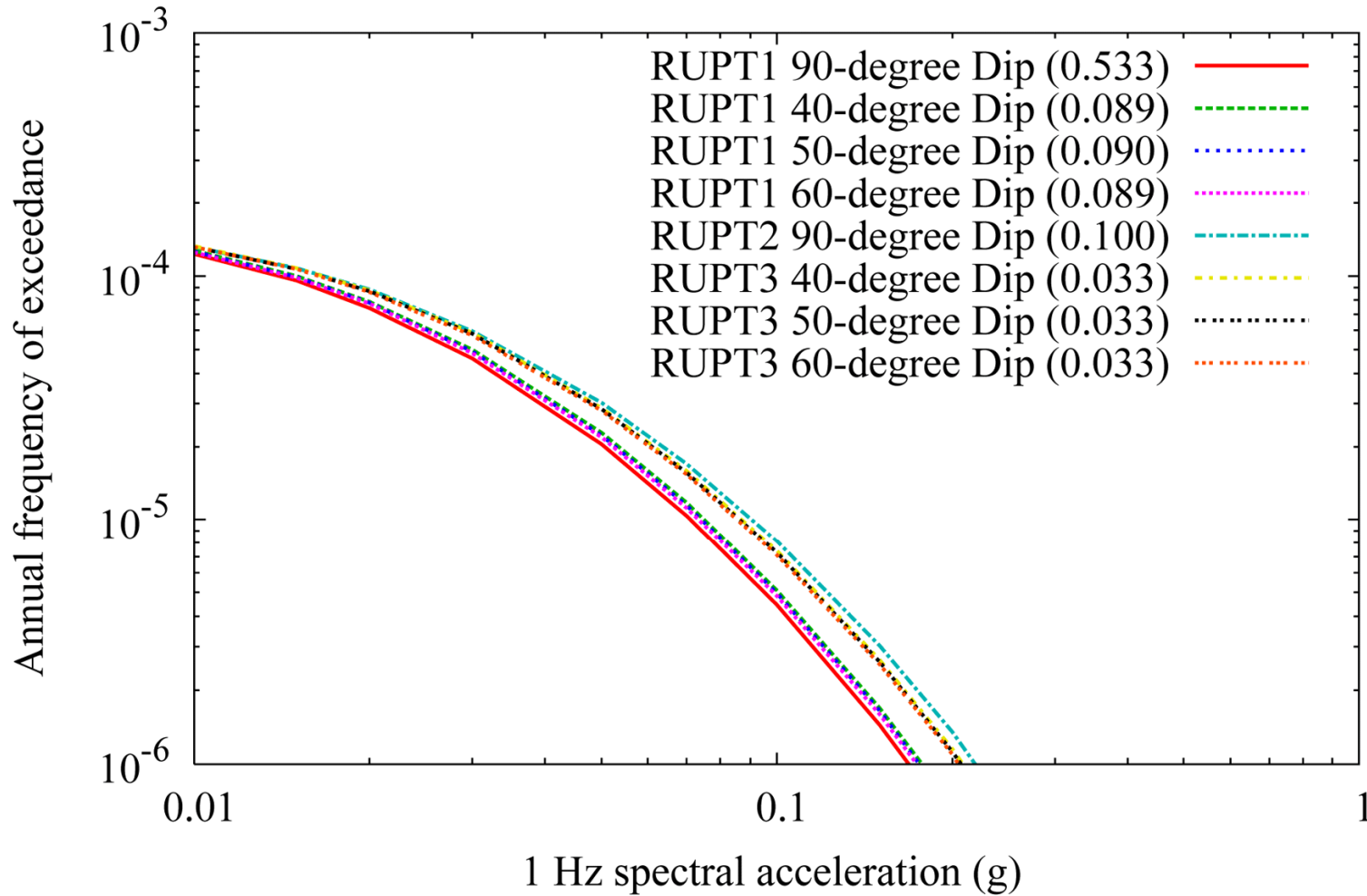
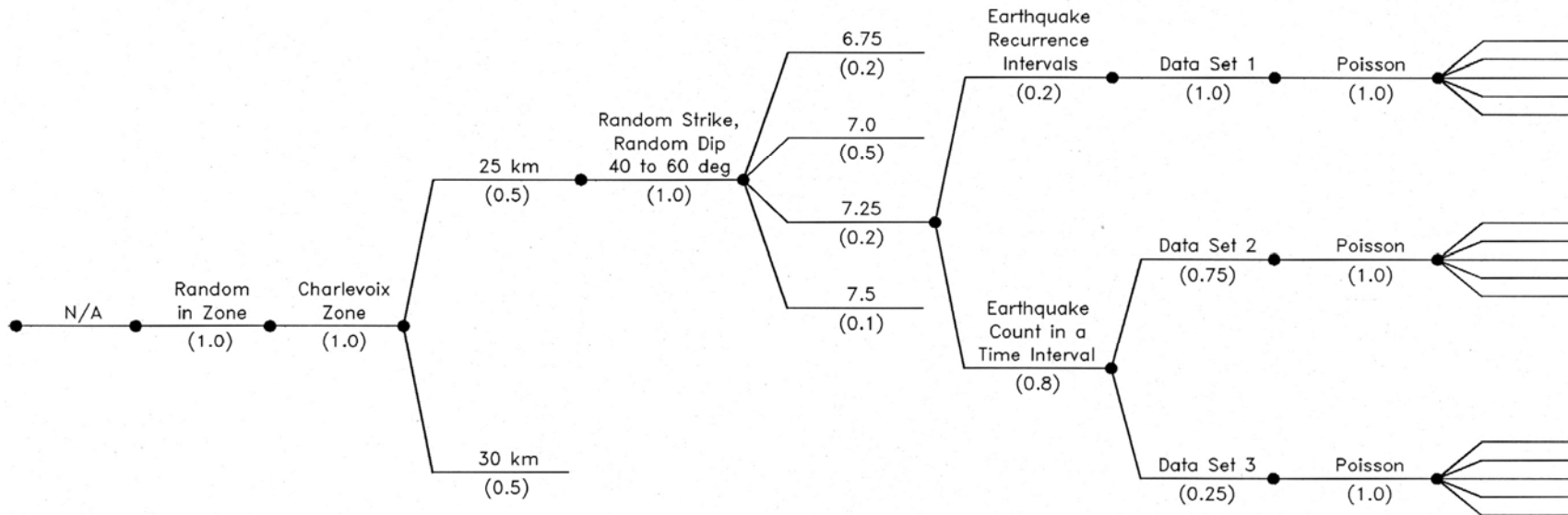
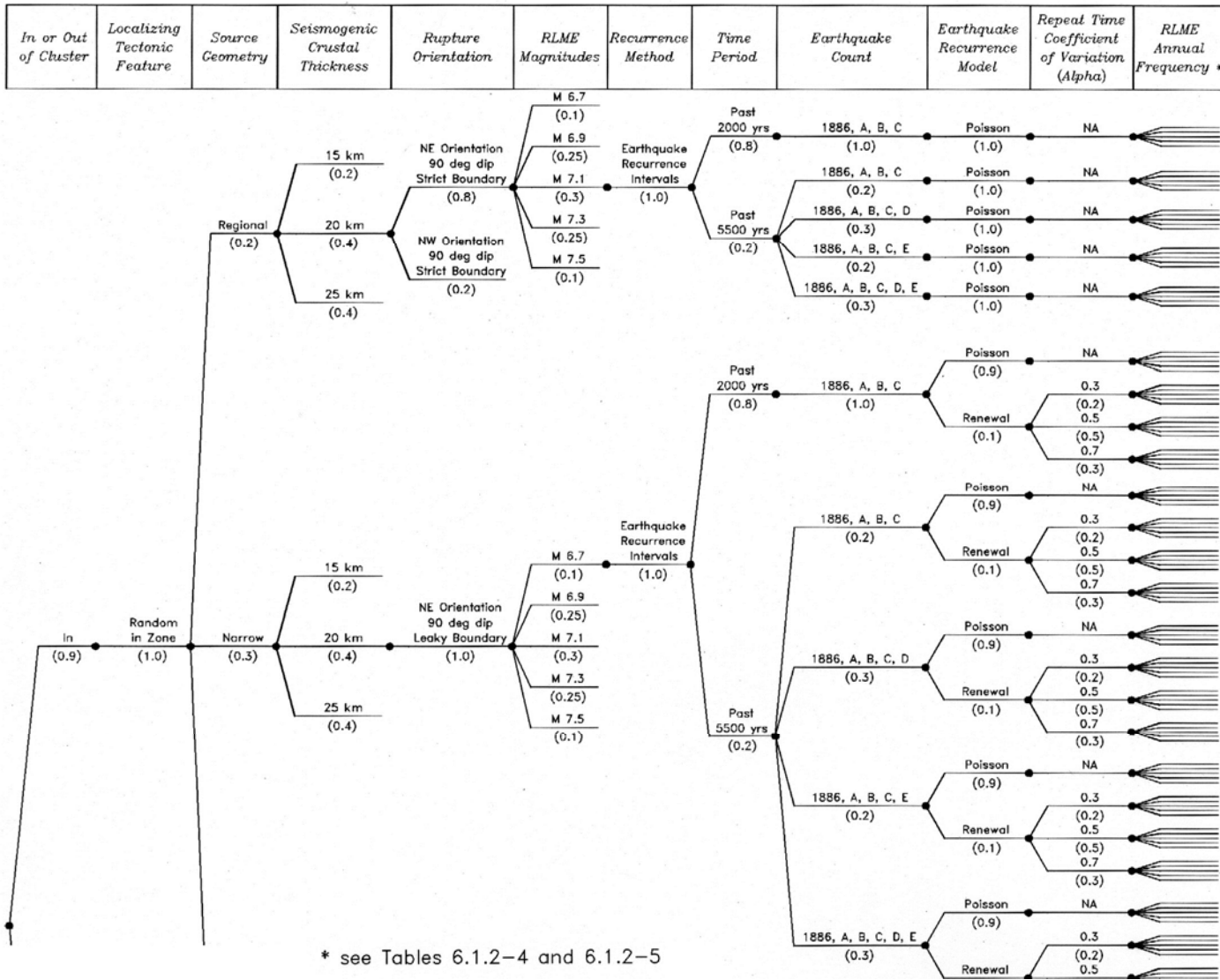


Figure 9.3-37  
1 Hz sensitivity to rupture orientation (dip) at Central Illinois for the Wabash Valley area source. Corrected on June 27, 2012.

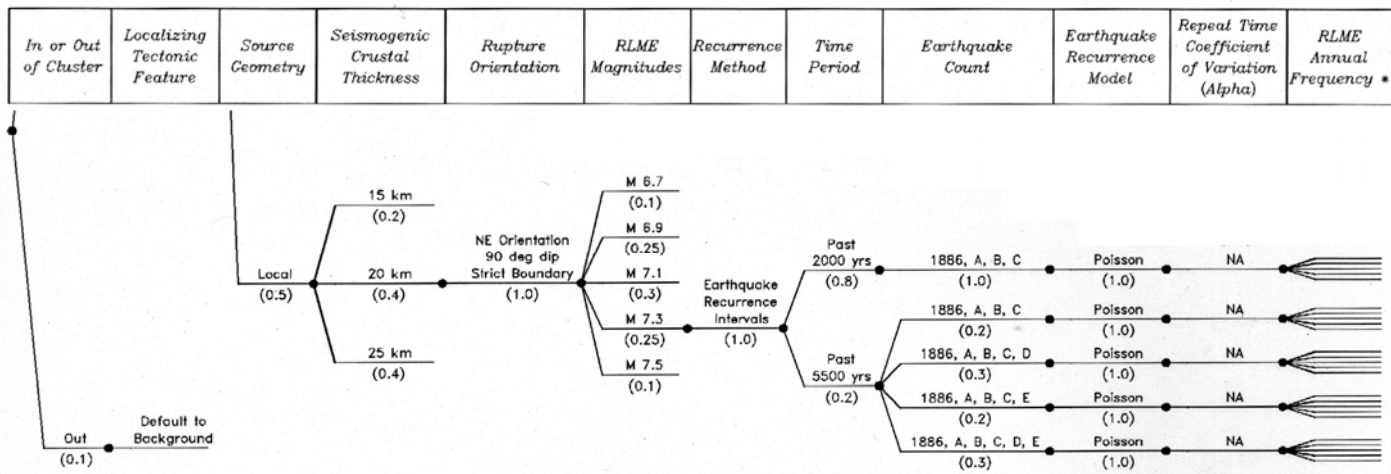
<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Orientation</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency *</i>
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**Figure 6.1.1-1**  
**Logic tree for the Charlevoix RLME source. Corrected on June 27, 2012.**



**Figure 6.1.2-1a**  
**Logic tree for the Charleston RLME source. Corrected on June 27, 2012.**

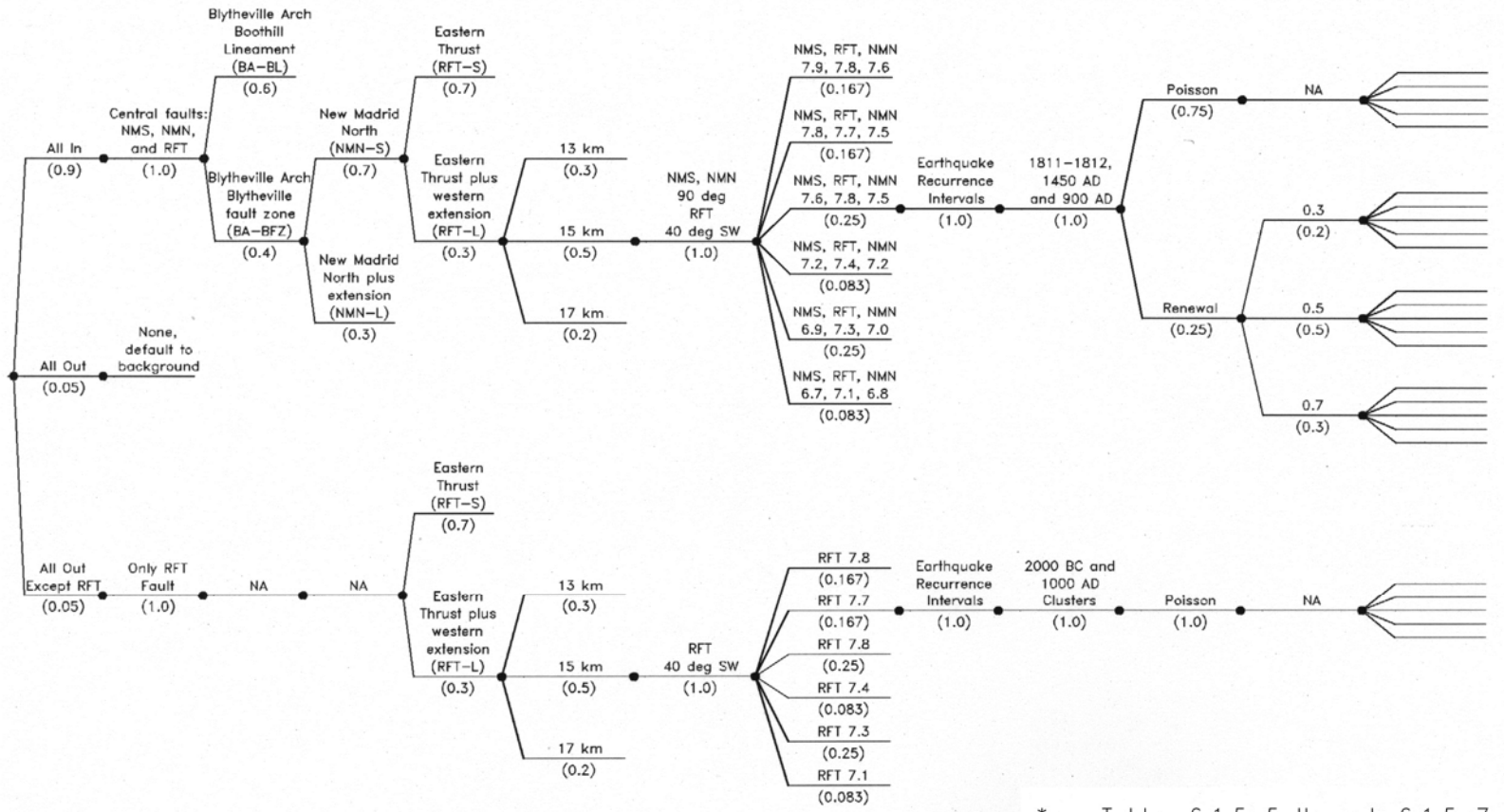


\* see Tables 6.1.2-4 and 6.1.2-5

**Figure 6.1.2-1b**  
**Logic tree for the Charleston RLME source. Corrected on June 27, 2012.**



<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry Southern Fault</i>	<i>Source Geometry Northern Fault</i>	<i>Source Geometry Central Fault</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Orientation</i>	<i>RLME Magnitudes</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>Repeat Time Coefficient of Variation (Alpha)</i>	<i>RMLE Annual Frequency *</i>
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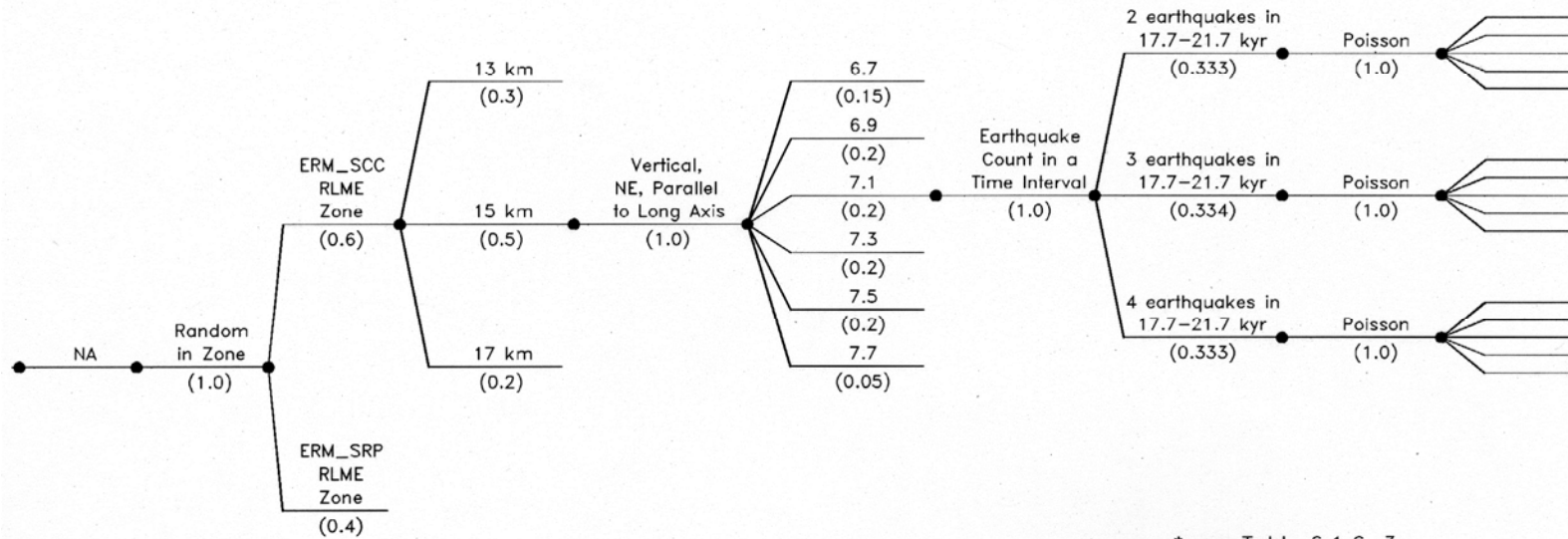


\*see Tables 6.1.5-5 through 6.1.5-7

**Figure 6.1.5-1**  
**Logic tree for the NMFS RLME source. Corrected on June 27, 2012.**



<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency *</i>
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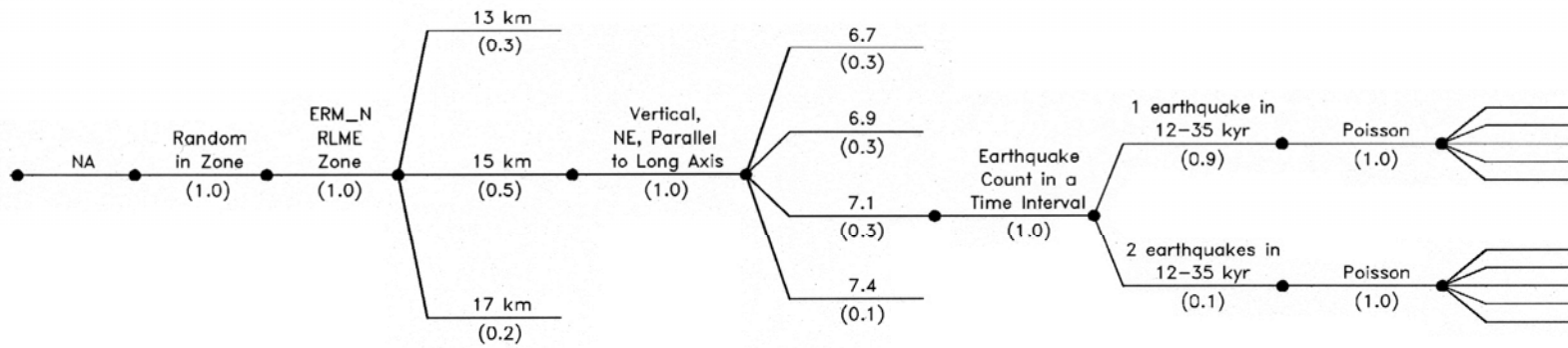


\* see Table 6.1.6-3

**Figure 6.1.6-1a**

Logic tree for the Reelfoot Rift-Eastern Rift Margin South RLME source. Two options for the southern extent of the ERM-S are considered: ERM-SCC includes the Crittenden County fault zone, and ERM-SRP includes the postulated zone of deformation based on fault picks identified in a high-resolution seismic profile along the Mississippi River. Corrected on June 27, 2012.

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>Equivalent Annual Frequency</i>
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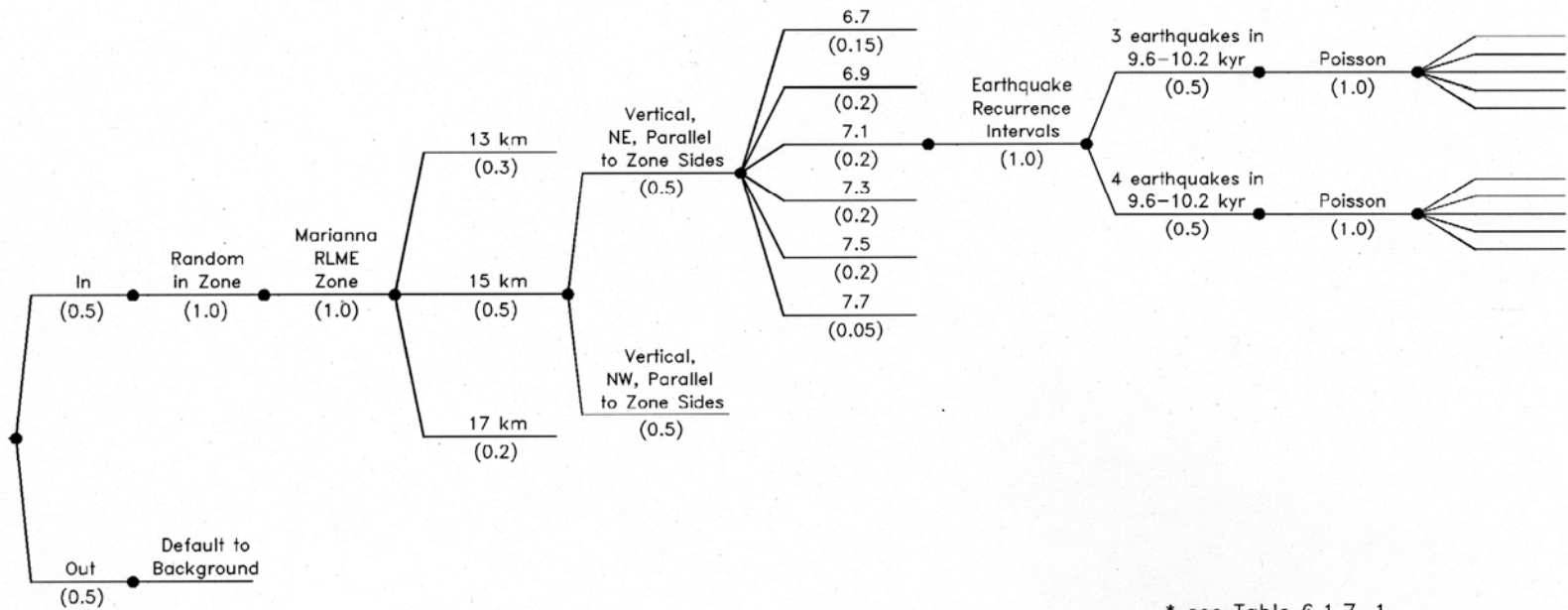


\* see Table 6.1.6-4

**Figure 6.1.6-1b**

Logic tree for the Reelfoot Rift-Eastern Rift Margin North RLME source. Corrected on June 27, 2012.

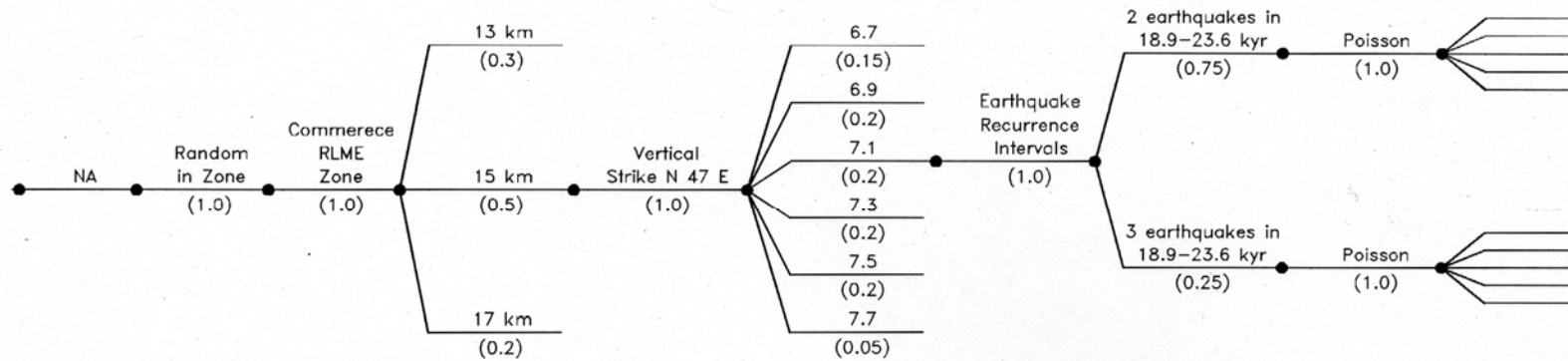
<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency *</i>
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\* see Table 6.1.7-1

**Figure 6.1.7-1**  
**Logic tree for the Reelfoot rift-Marianna RLME source. Corrected on June 27, 2012.**

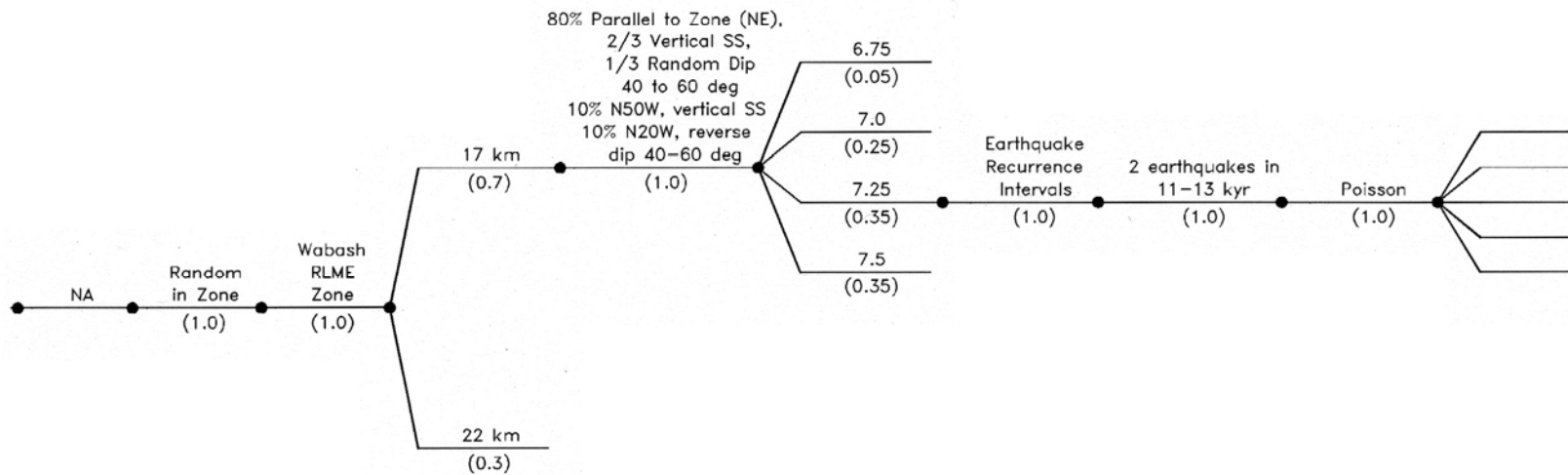
<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency *</i>
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\* see Table 6.1.8-2

**Figure 6.1.8-1**  
**Logic tree for the Commerce Fault Zone RLME source. Corrected on June 27, 2012.**

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency *</i>
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\* see Table 6.1.9-2

**Figure 6.1.9-1**  
**Logic tree for the Wabash Valley RLME source. Corrected on June 27, 2012.**

This replaces section H.5.9.3 Geometry and Style of Faulting located in Page H-18  
Corrected on June 27, 2012.

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*Appendix H*

### H.5.9.3 Geometry and Style of Faulting

A single zone geometry is used to model the Wabash Valley RLME. This geometry is shown on Figure H-5.9-2.

Two alternative estimates of the seismogenic thickness of the crust in the Wabash Valley RLME are used: 17 km (weight of 0.7) or 22 km (weight of 0.3).

The boundaries of the Wabash Valley RLME source zone are modeled as leaky. Earthquakes are to be modeled with the following aleatory distribution:

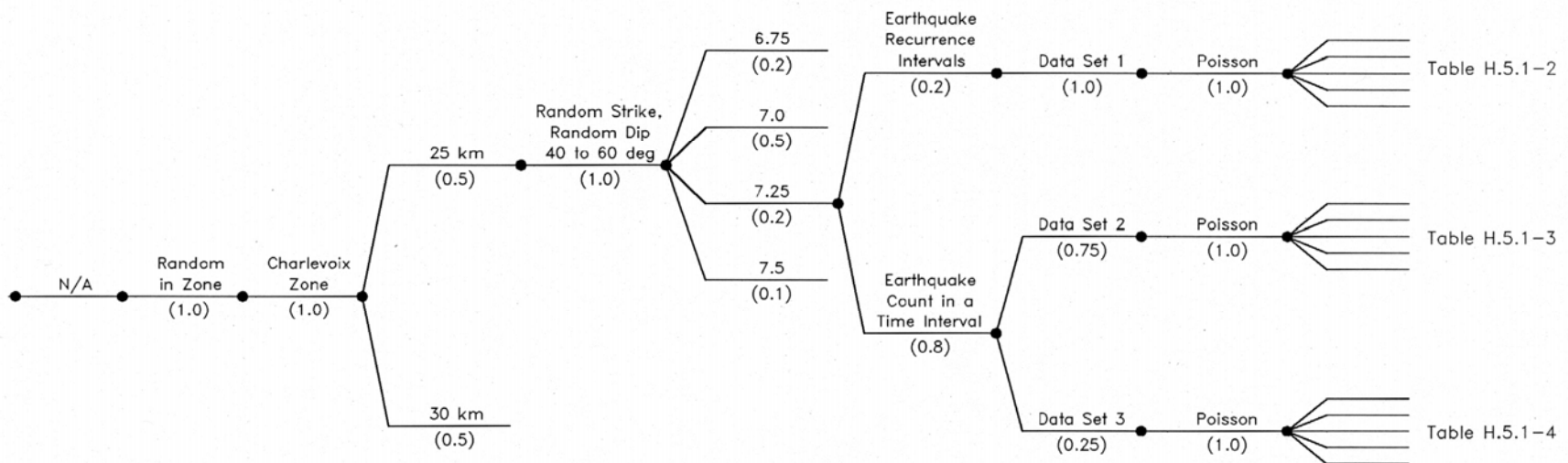
strike—parallel to the long axis of the zone [0.8]
2/3 strike-slip, 90 degrees
1/3 reverse, uniform 40–60 degrees to the west
N50°W [0.1] strike-slip, 90 degrees
N20°W [0.1] reverse, uniform 40–60 degrees to the west

This replaces the H-5.8-1 Table located in Page H-41  
Corrected on June 27, 2012.

**Table H-5.8-1  
Commerce RLME Magnitude Distribution**

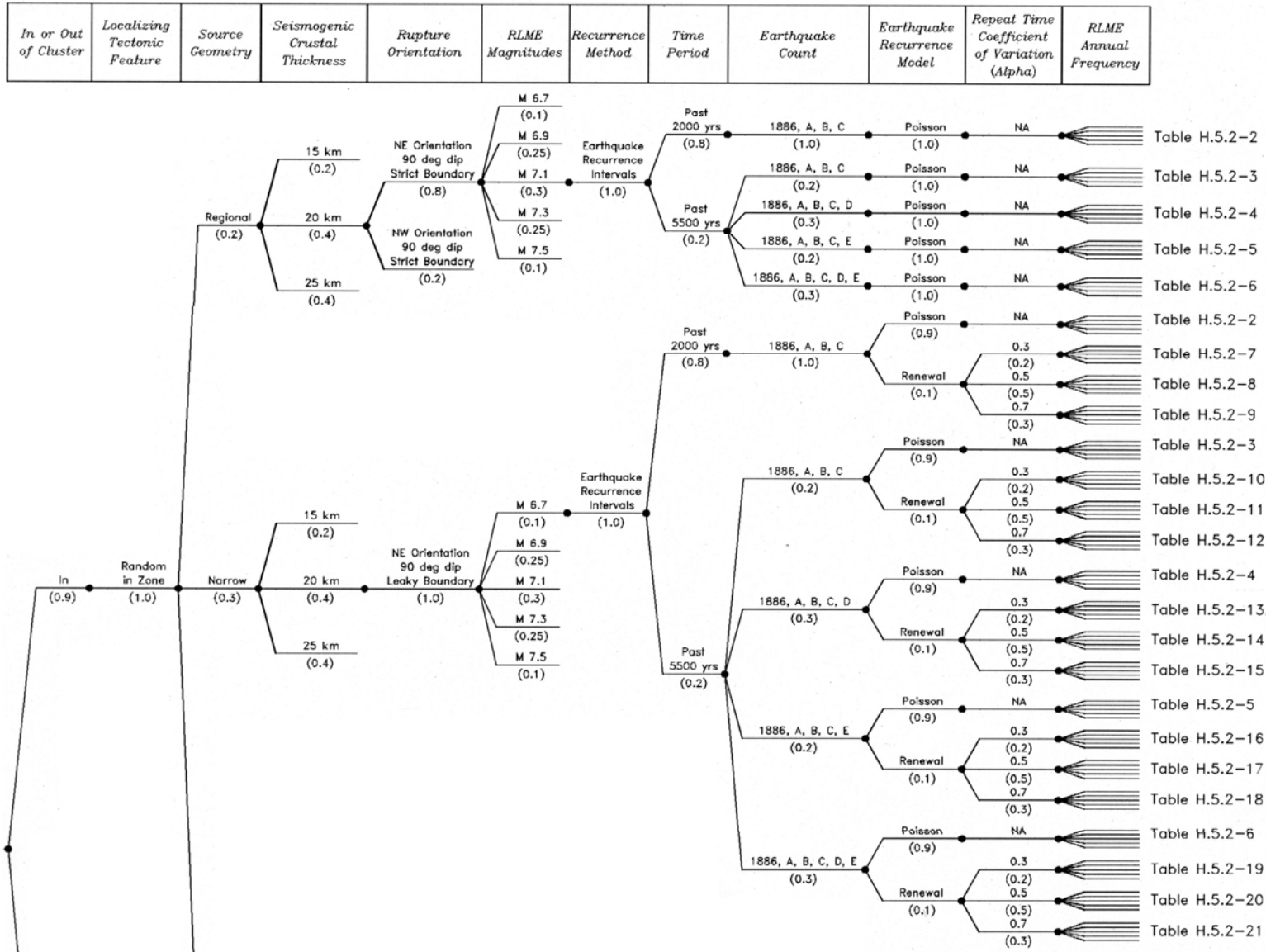
<b>Moment Magnitude</b>	<b>Weight</b>
6.7	0.15
6.9	0.2
7.1	0.2
7.3	0.2
7.5	0.2
7.7	0.05

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Orientation</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency</i>
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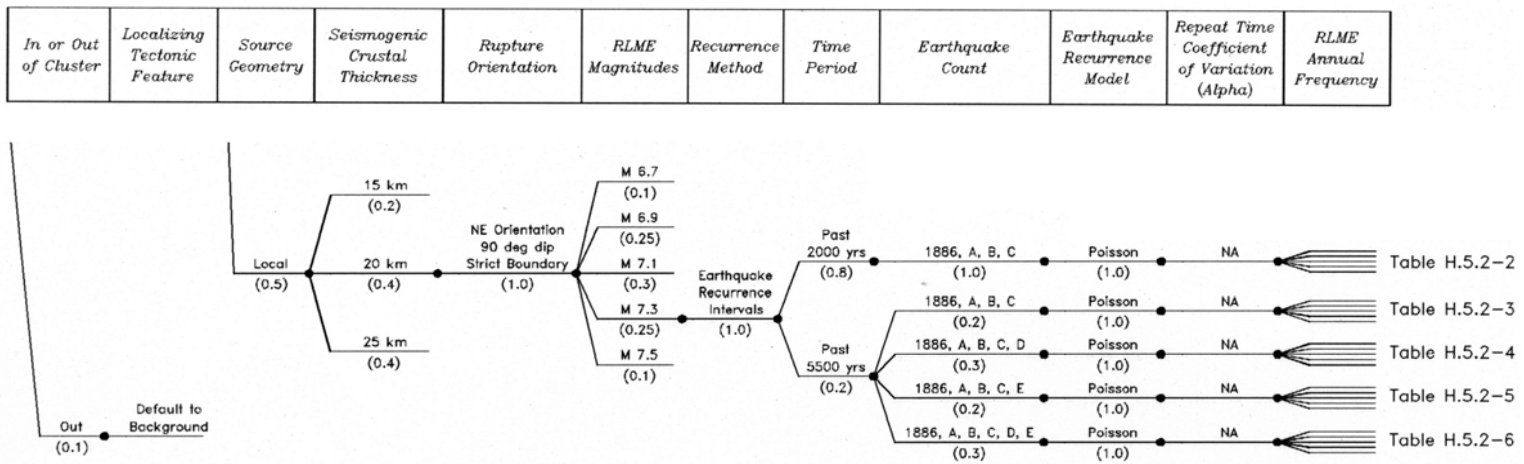


**Figure H-5.1-1**  
**Logic tree for the Charlevoix RLME source. Corrected on June 27, 2012.**





**Figure H-5.2-1(a)**  
**Logic tree for Charleston RLME source. Corrected on June 27, 2012.**



**Figure H-5.2-1(b)**  
**Logic tree for Charleston RLME source. Corrected on June 27, 2012.**

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Orientation</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency or Slip Rate</i>
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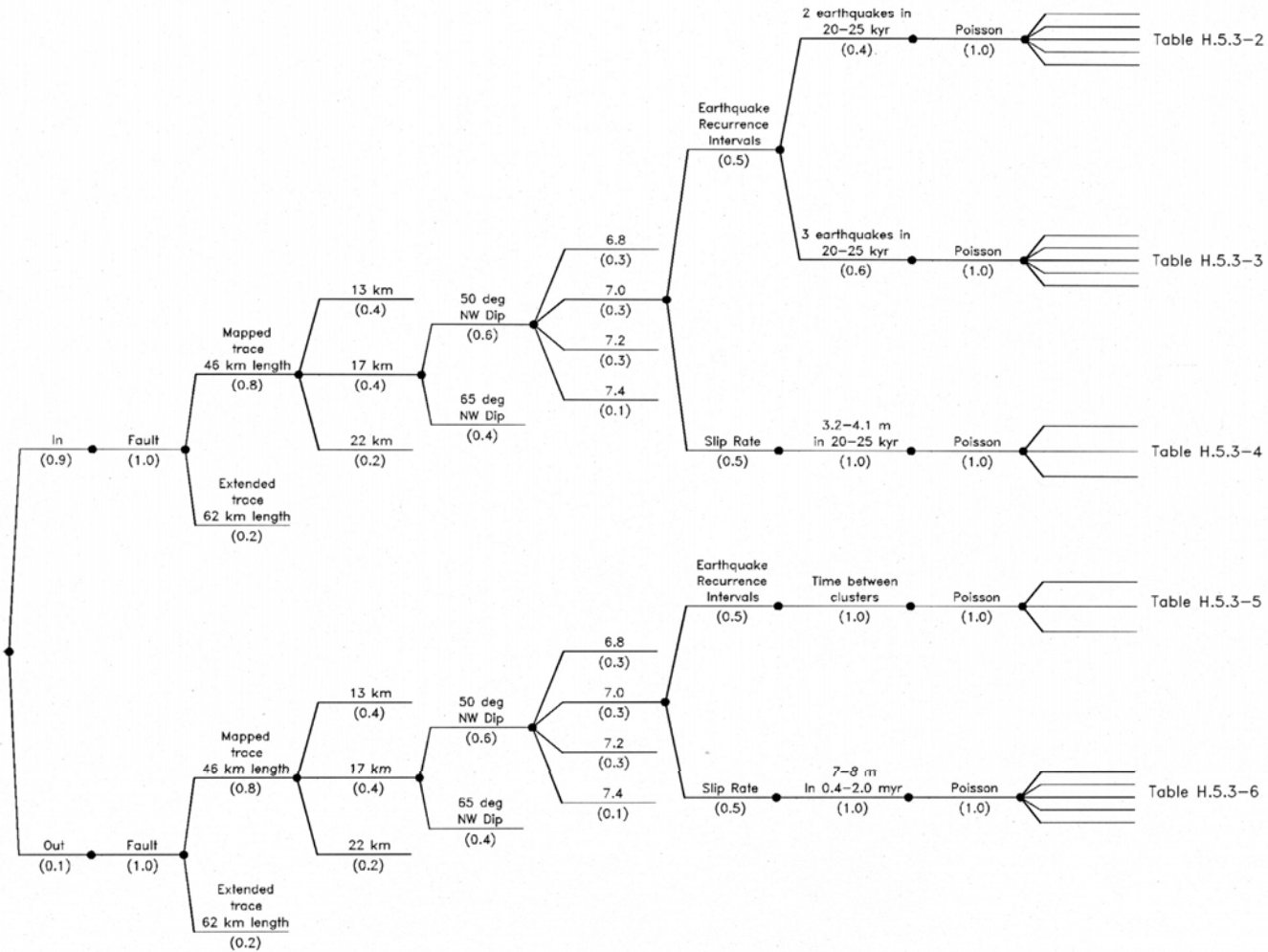
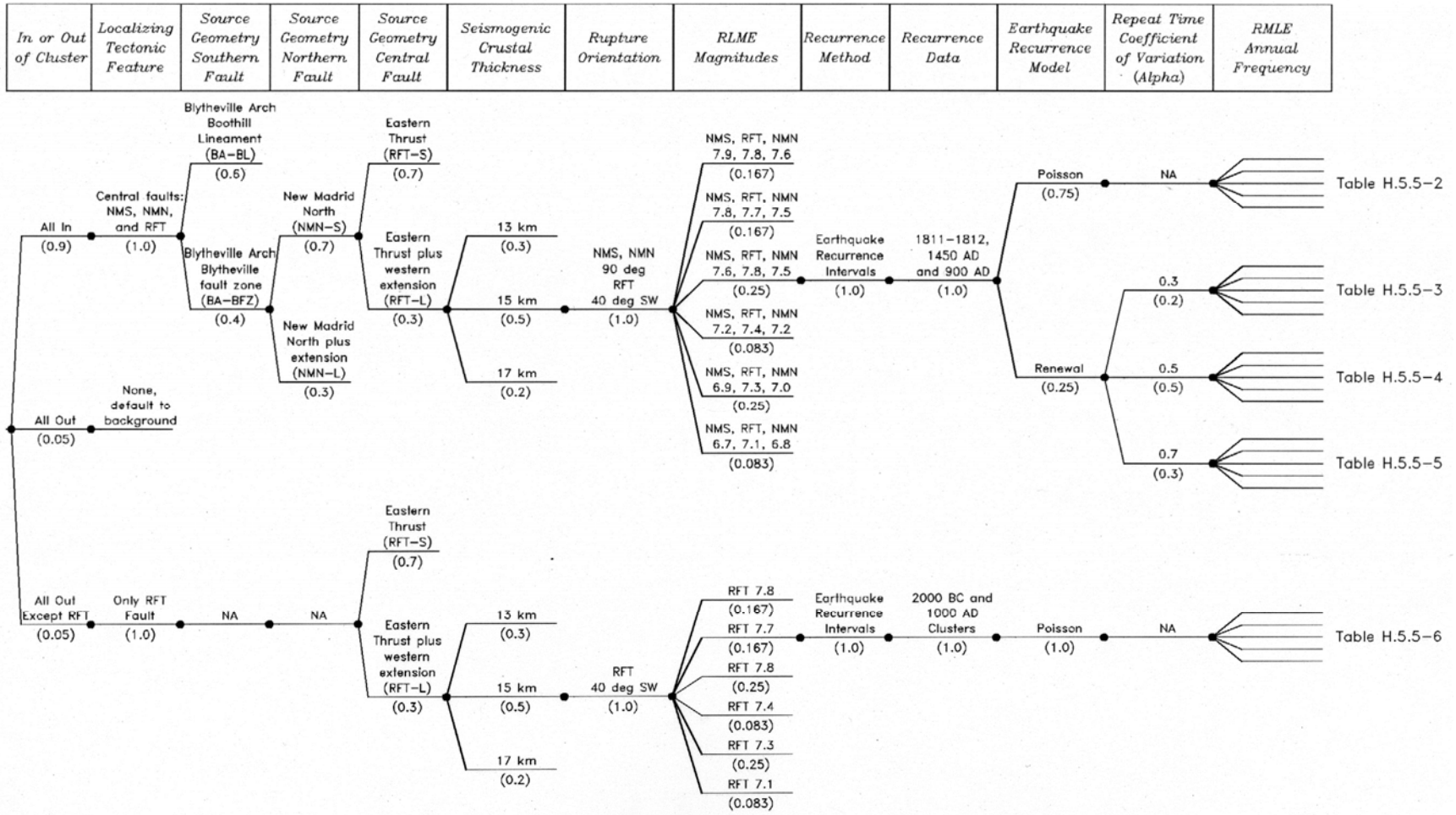
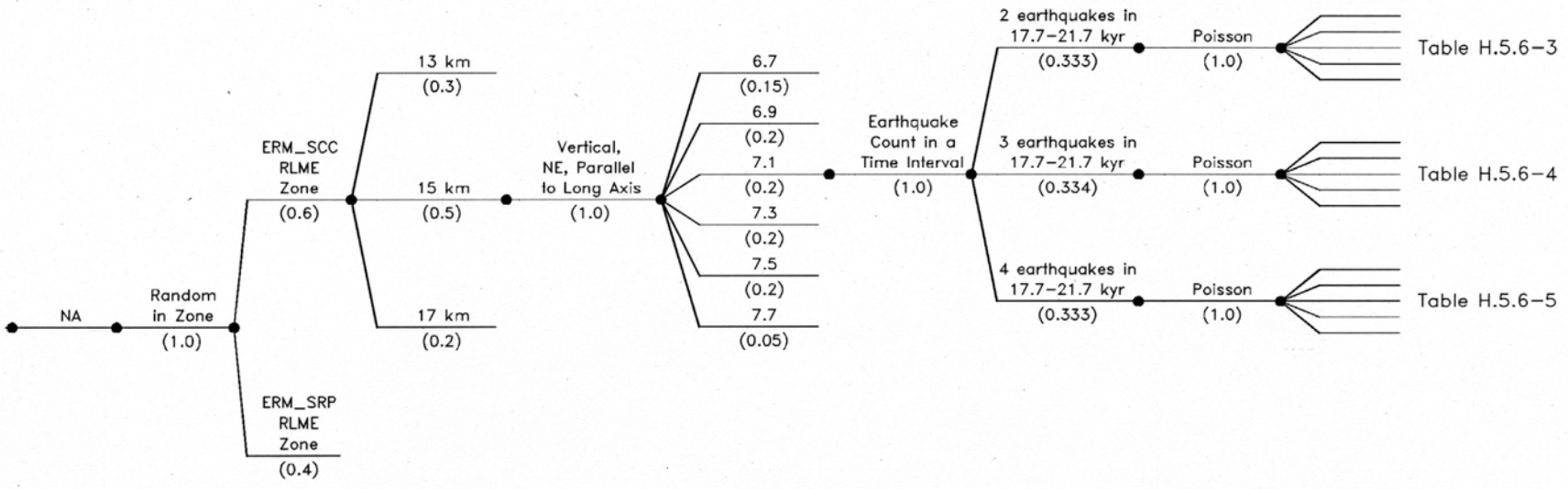


Figure H-5.3-1  
 Logic tree for Cheraw RLME source. Corrected on June 27, 2012.



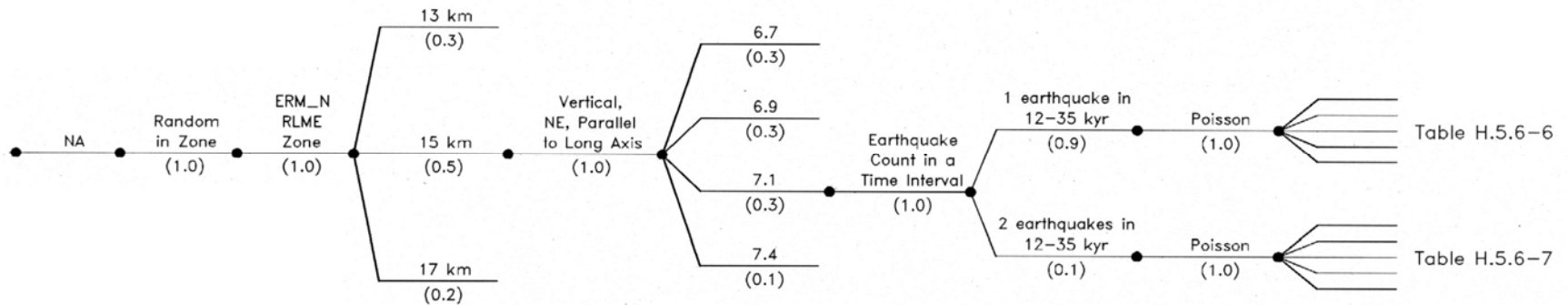
**Figure H-5.5-1**  
**Logic tree for NMFS RLME source. Corrected on June 27, 2012.**

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency</i>
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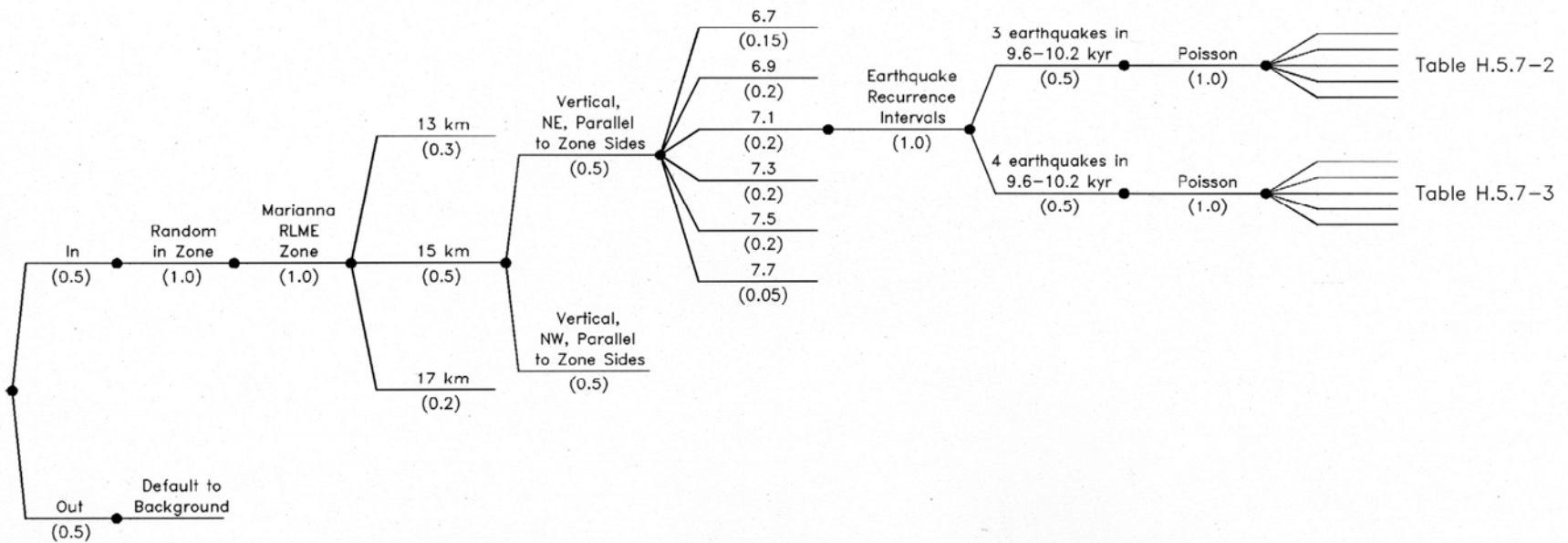
**Figure H-5.6-1**  
**Logic tree for ERM-S RLME source. Corrected on June 27, 2012.**

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>Equivalent Annual Frequency</i>
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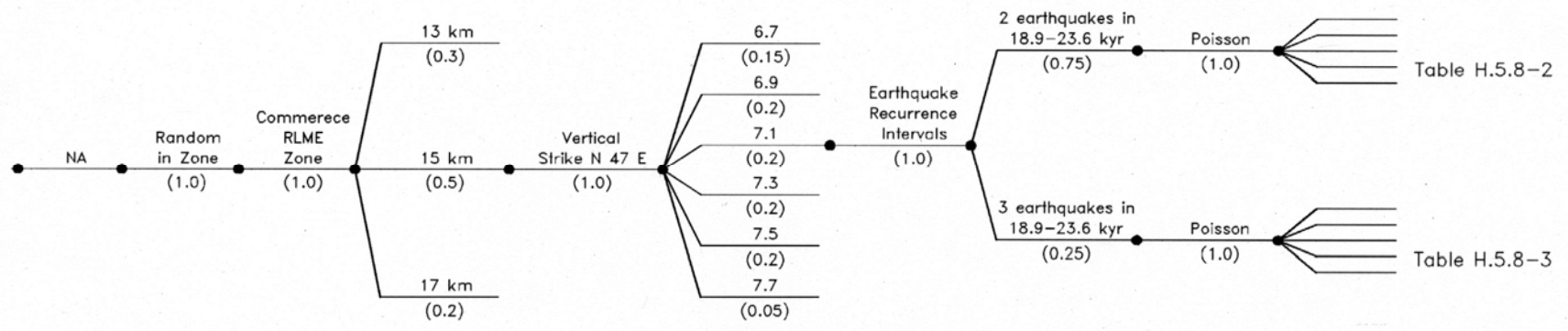
**Figure H-5.6-2**  
**Logic tree for ERM-N RLME source. Corrected on June 27, 2012.**

<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency</i>
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**Figure H-5.7-1**  
**Logic tree for Marianna RLME source. Corrected on June 27, 2012.**

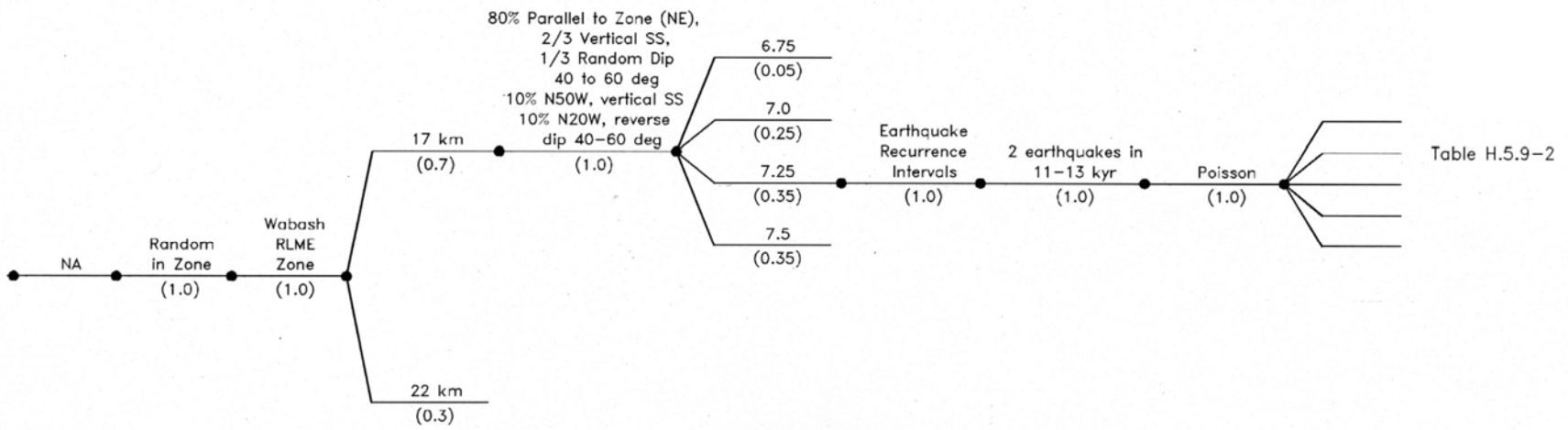
<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency</i>
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**Figure H-5.8-1**  
**Logic tree for Commerce Fault Zone RLME source. Corrected on June 27, 2012.**



<i>In or Out of Cluster</i>	<i>Localizing Tectonic Feature</i>	<i>Source Geometry</i>	<i>Seismogenic Crustal Thickness</i>	<i>Rupture Geometry</i>	<i>RLME Magnitude</i>	<i>Recurrence Method</i>	<i>Recurrence Data</i>	<i>Earthquake Recurrence Model</i>	<i>RLME Annual Frequency</i>
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**Figure H-5.9-1**  
**Logic tree for Wabash Valley RLME source. Corrected on June 27, 2012.**