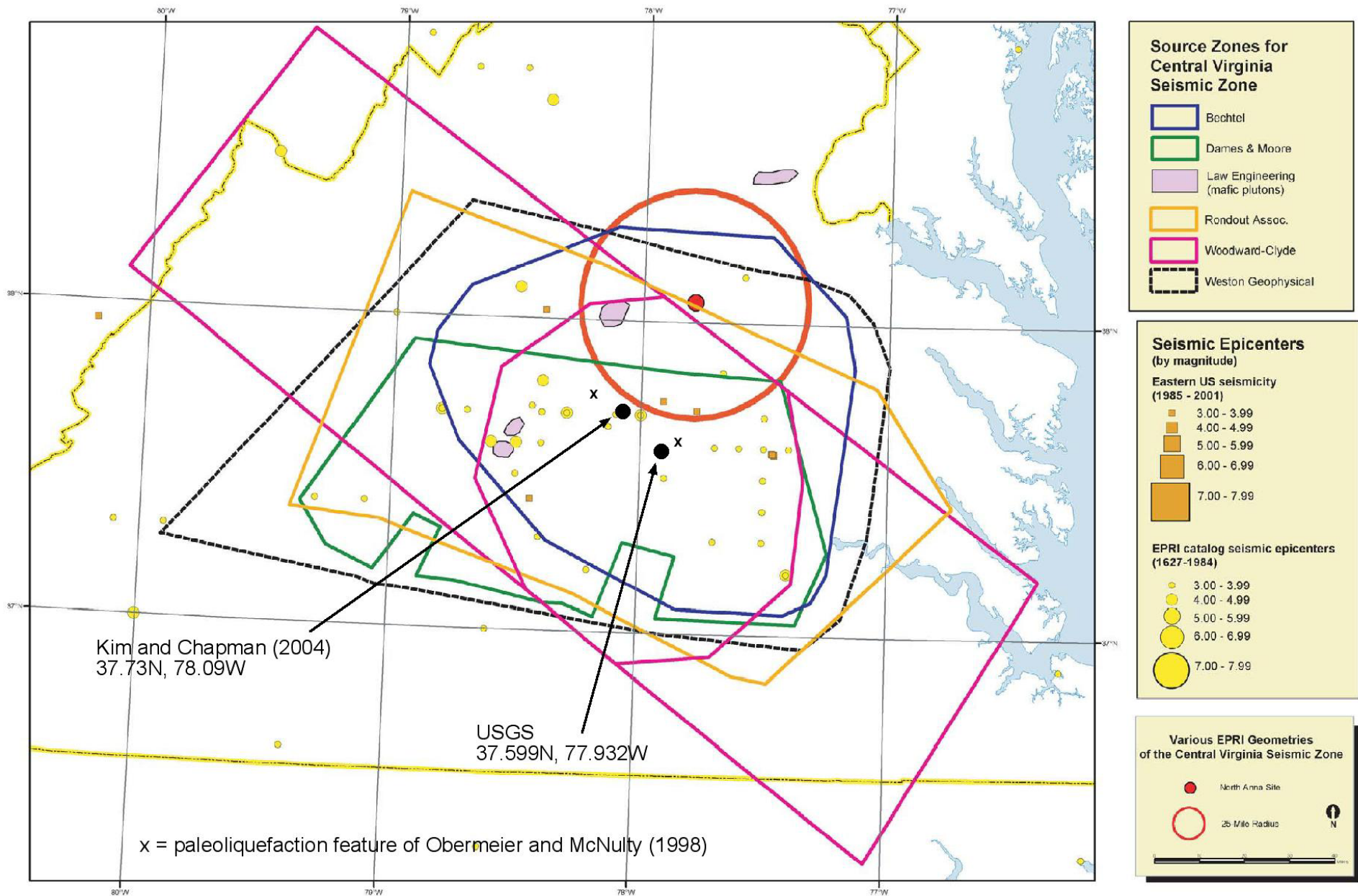


**Table 2.5-5 Summary of Bechtel Seismic Sources**

Source	Description	Distance <sup>a</sup>		Pa <sup>b</sup>	M <sub>max</sub> (m <sub>b</sub> ) and Wts. <sup>c</sup>	Smoothing Options and Wts. <sup>d</sup>	Contributed to 99% of EPRI Hazard <sup>e</sup>	New Information to Suggest Change in Source:		
		(km)	(mi)					Geometry? <sup>f</sup>	M <sub>max</sub> ? <sup>g</sup>	RI? <sup>h</sup>
<b>Sources within 200 mi (320 km)</b>										
E	Central Virginia	0	0	0.35	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	Yes	No	No	No
BZ5	S. Appalachians	0	0	1.00	5.7 [0.10] 6.0 [0.40] 6.3 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 3 [0.33]	Yes	No	No	No
24	Bristol Trends	61	38	0.25	5.7 [0.10] 6.0 [0.40] 6.3 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	Yes	No	No	No
BZ4	Atlantic Coastal Region	144	90	1.00	6.6 [0.10] 6.8 [0.40] 7.1 [0.40] 7.4 [0.10]	1 [0.33] 2 [0.34] 3 [0.33]	Yes	No	No	No
17	Stafford fault zone	0	0	0.10	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	No	No	No	No
13	Eastern Mesozoic Basins	5	3	0.10	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	No	No	No	No
25	NY-Alabama Lineament	189	118	0.30	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	No	No	No	No
23	Lebanon Trend	211	131	0.05	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	No	No	No	No
19	Giles County	221	137	0.35	5.7 [0.10] 6.0 [0.40] 6.3 [0.40] 6.6 [0.10]	1 [0.33] 2 [0.34] 4 [0.33]	No	No	No	No

# Locations of Dec. 9, 2003 Earthquake (mb 4.5) and Paleoliquefaction Features



**Table 2.5-11 Comparison of EPRI Characterizations of the Central Virginia Seismic Zone**

EPRI Team	Source	Description	Distance <sup>a</sup>		Pa <sup>b</sup>	M <sub>max</sub> (m <sub>b</sub> ) and Wts. <sup>c</sup>	Largest M <sub>max</sub> Value Considered by EPRI Team		Contributed to 99% of EPRI Hazard <sup>d</sup>
			km	mi			m <sub>b</sub>	M <sup>e</sup>	
Bechtel	E	Central Virginia	0	0	0.35	5.4 [0.10] 5.7 [0.40] 6.0 [0.40] 6.6 [0.10]	6.6	6.49	Yes
Dames & Moore	40	Central VA Seismic Zone	24	15	1.00	6.6 [0.80] 7.2 [0.20]	7.2	7.51	Yes
Law Engineering <sup>f</sup>	na	na	na	na	na	na	na	na	na
Rondout	29	Central VA	0	0	1.00	6.6 [0.30] 6.8 [0.60] 7.0 [0.10]	7.0	7.16	Yes
Weston	22	Central VA Seismic Zone	0	0	0.82	5.4 [0.19] 6.0 [0.65] 6.6 [0.16]	6.6	6.49	Yes
Woodward-Clyde Consultants	26	Central VA Gravity Saddle	4	3	0.434	5.4 [0.33] 6.5 [0.34] 7.0 [0.33]	7.0	7.16	Yes