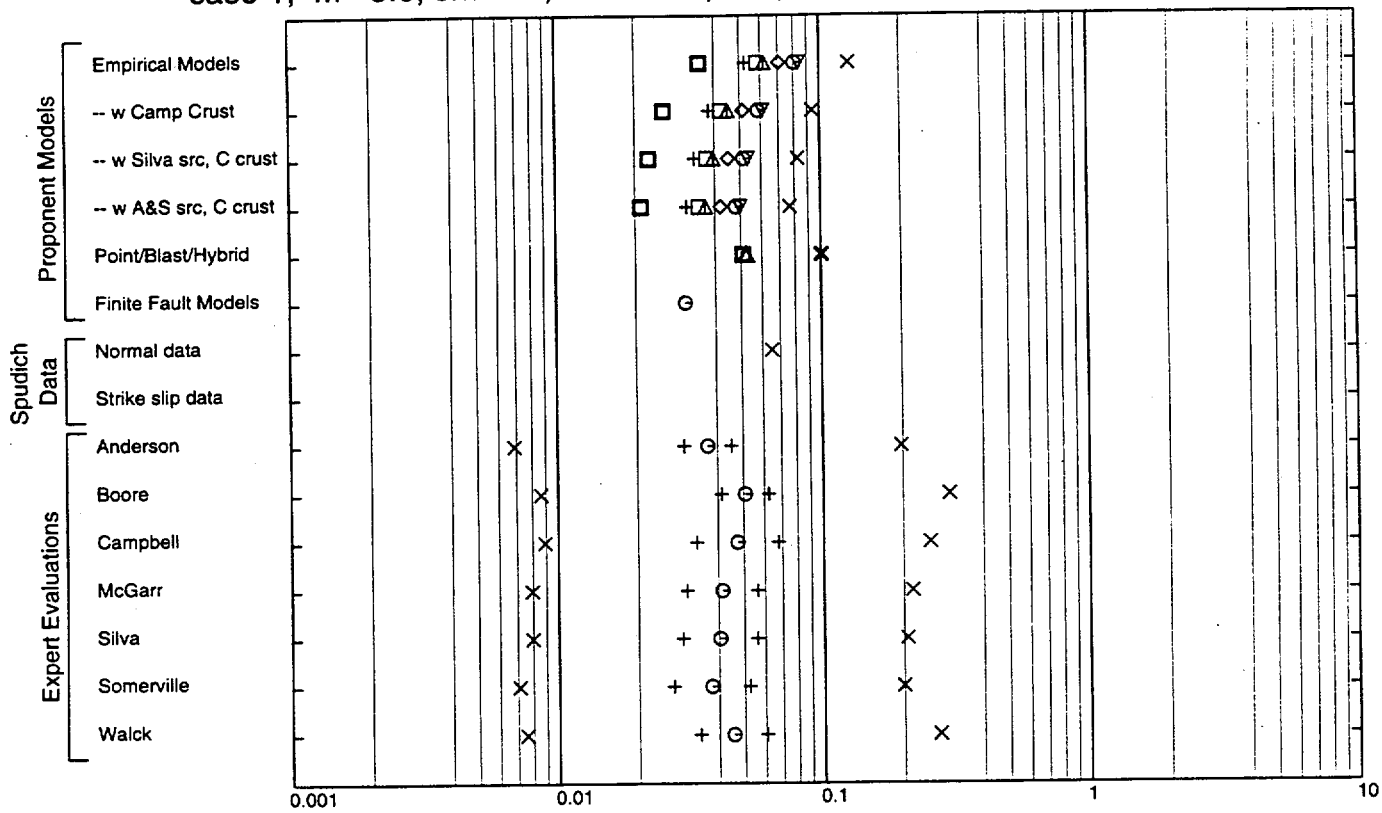
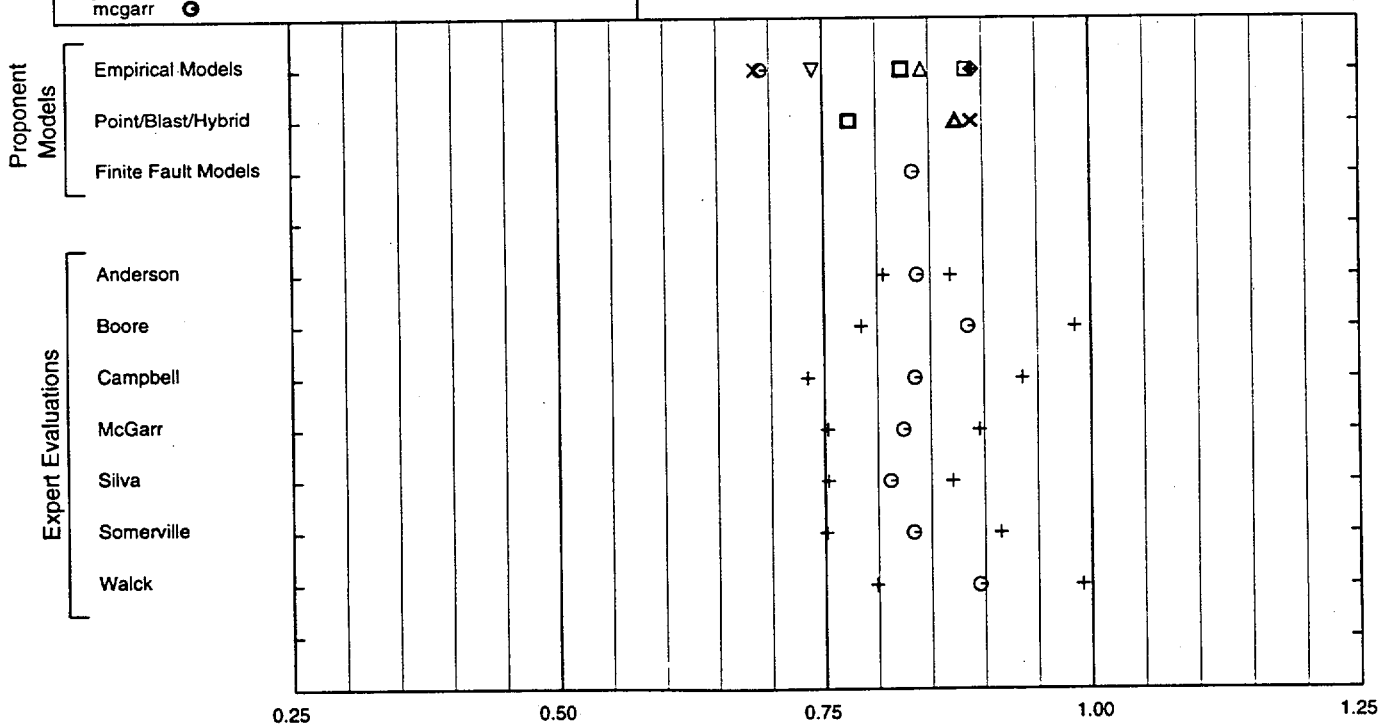
case 1, M= 5.0, shallow, xd= 1 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

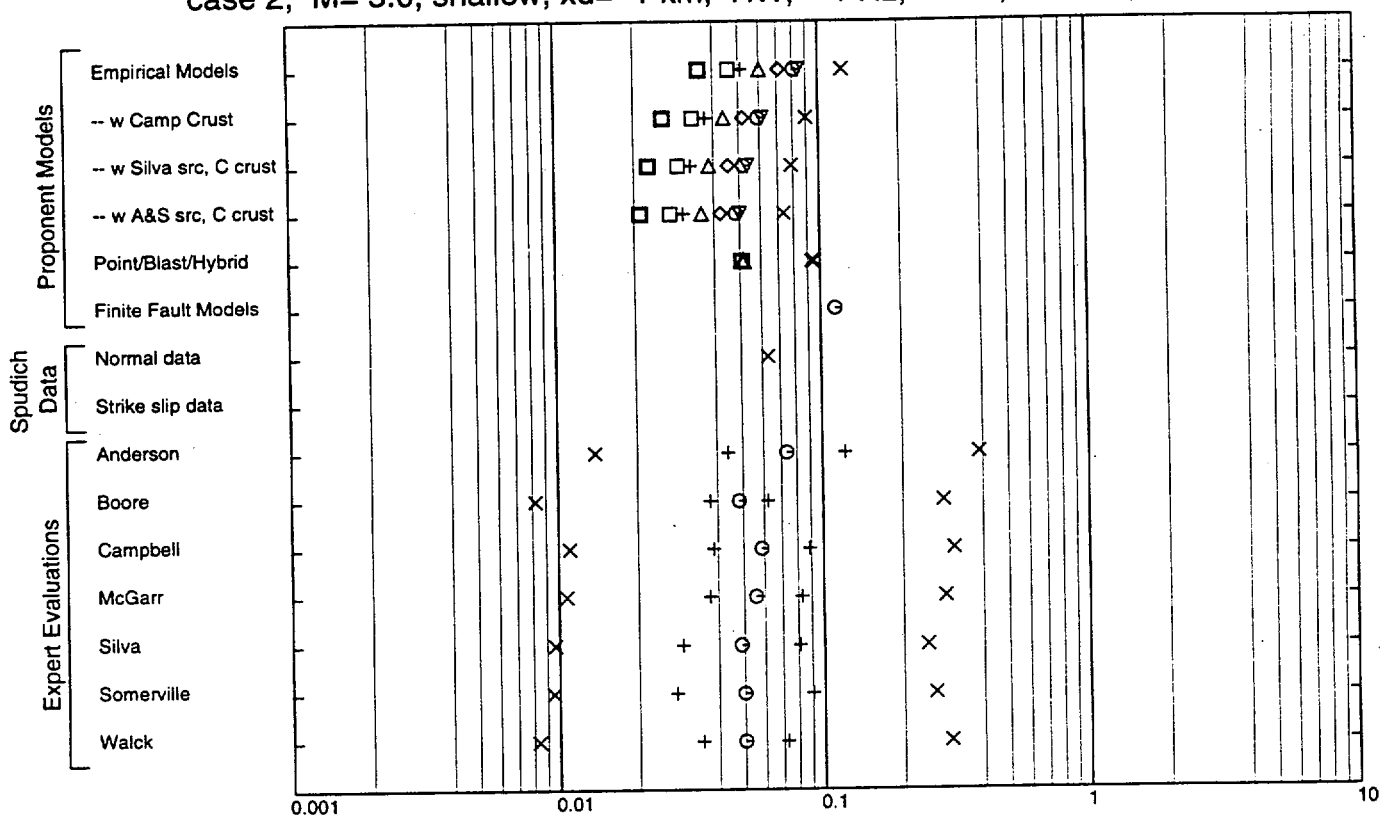
Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

9809180180
-Part 4

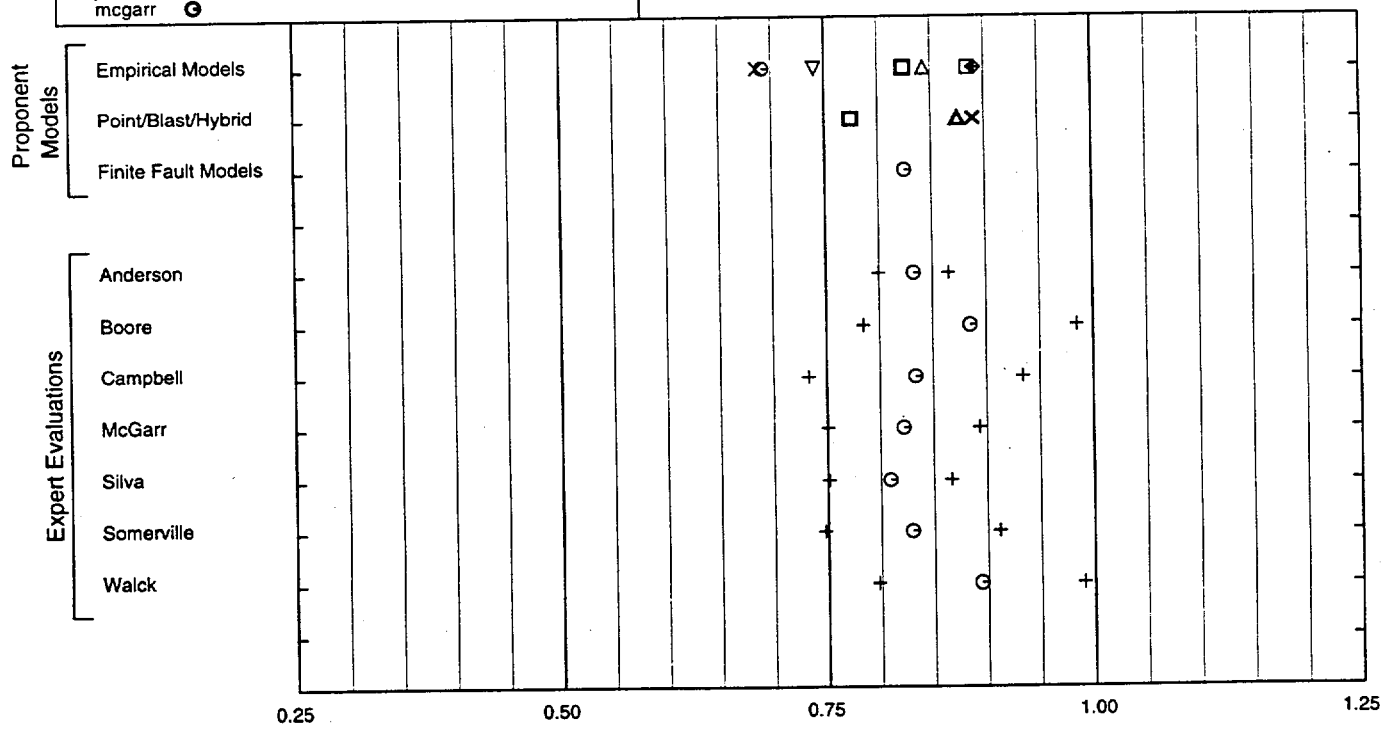
case 2, M= 5.0, shallow, xd= 1 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

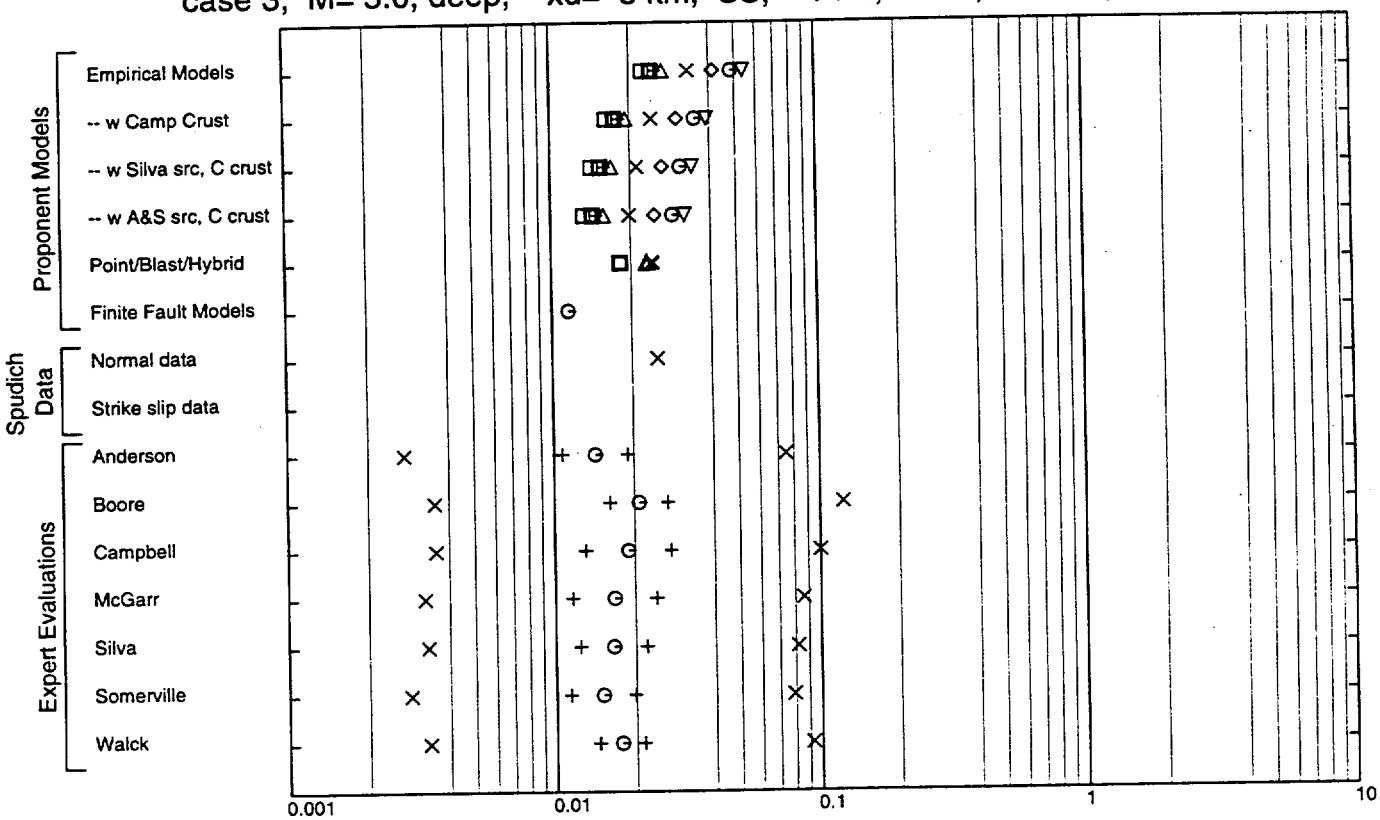
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

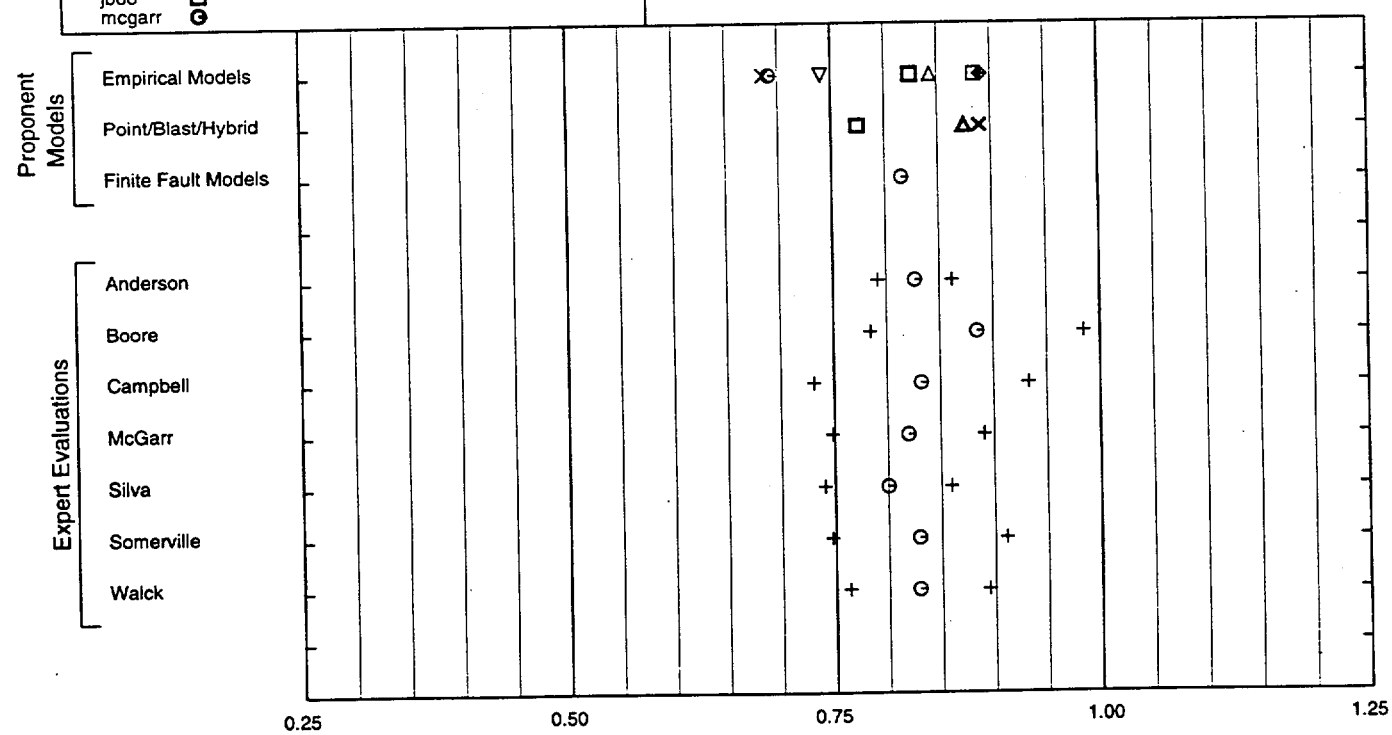
case 3, M= 5.0, deep, xd= 5 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

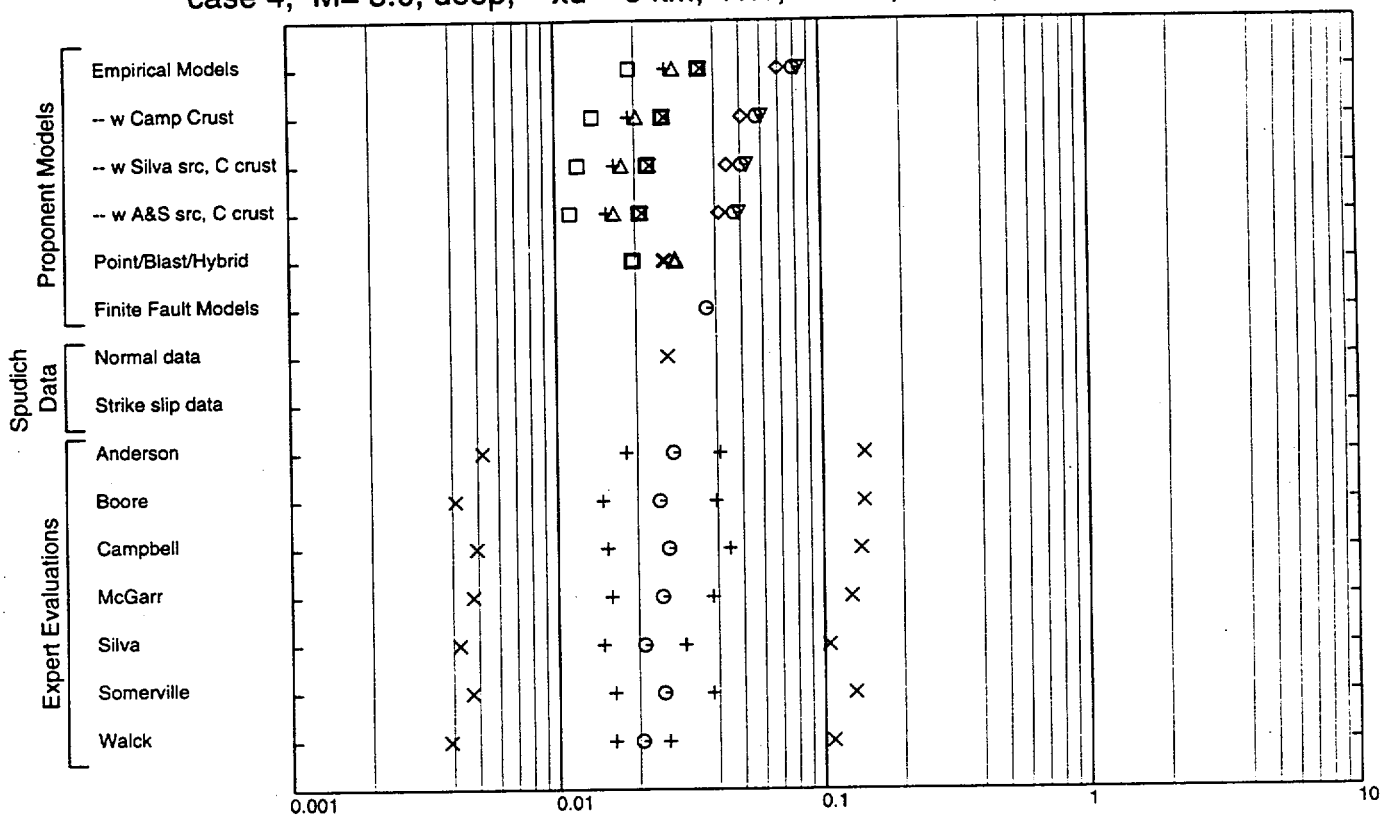
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

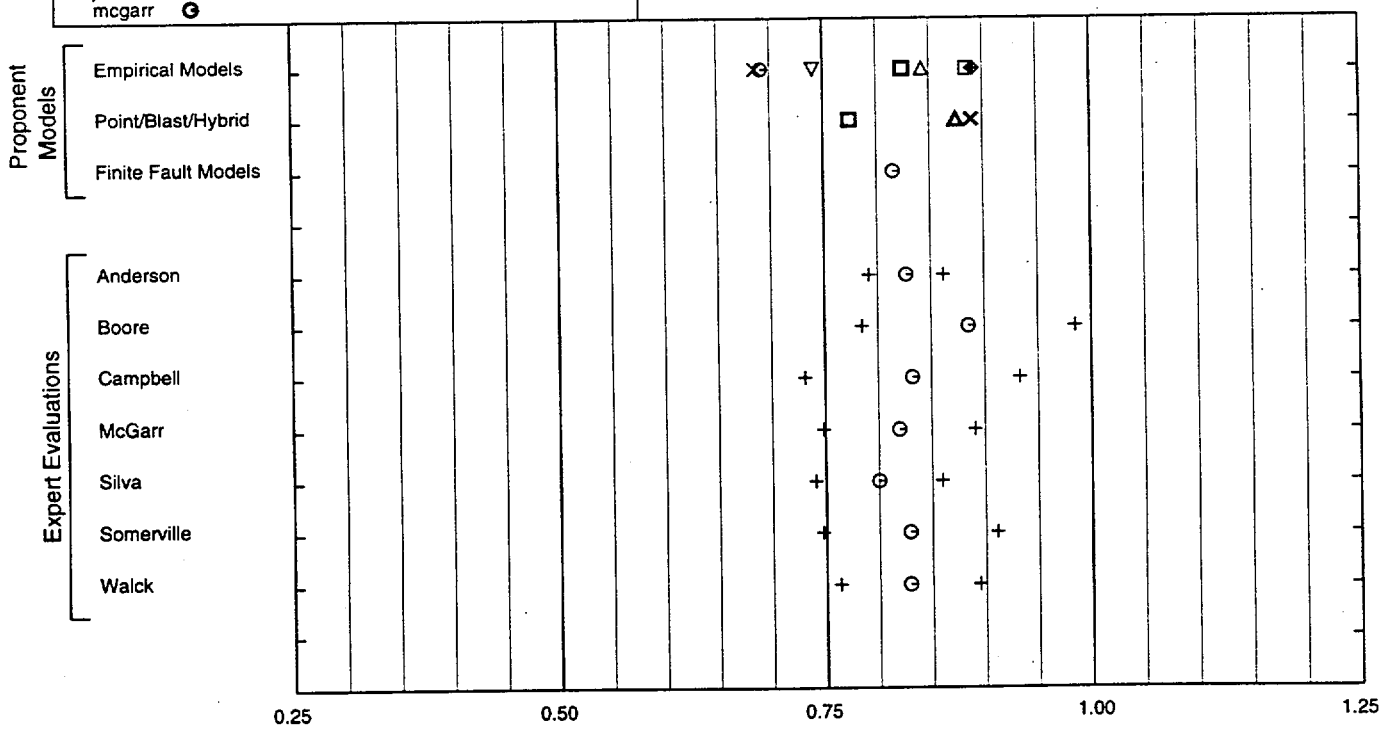
case 4, M= 5.0, deep, xd= 5 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

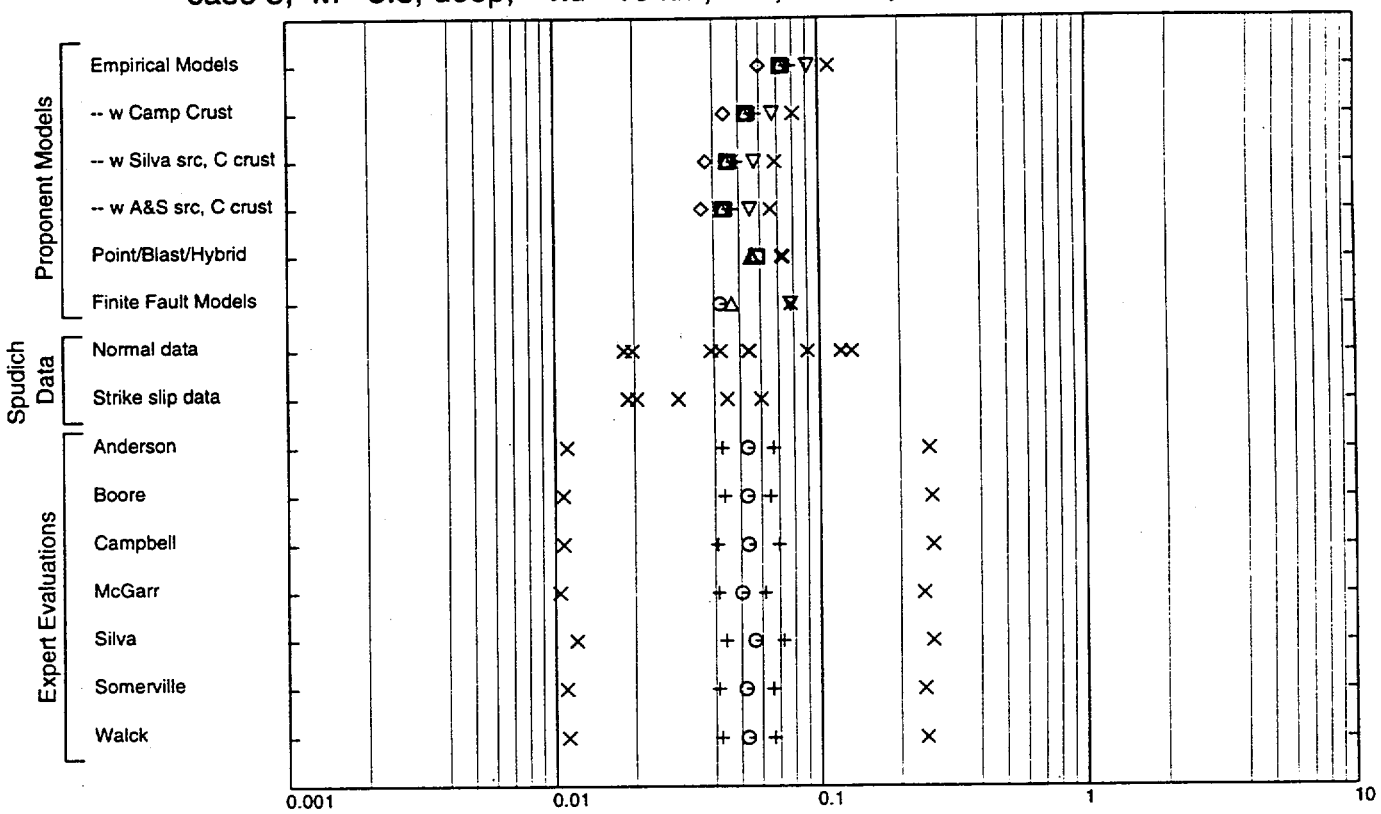
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

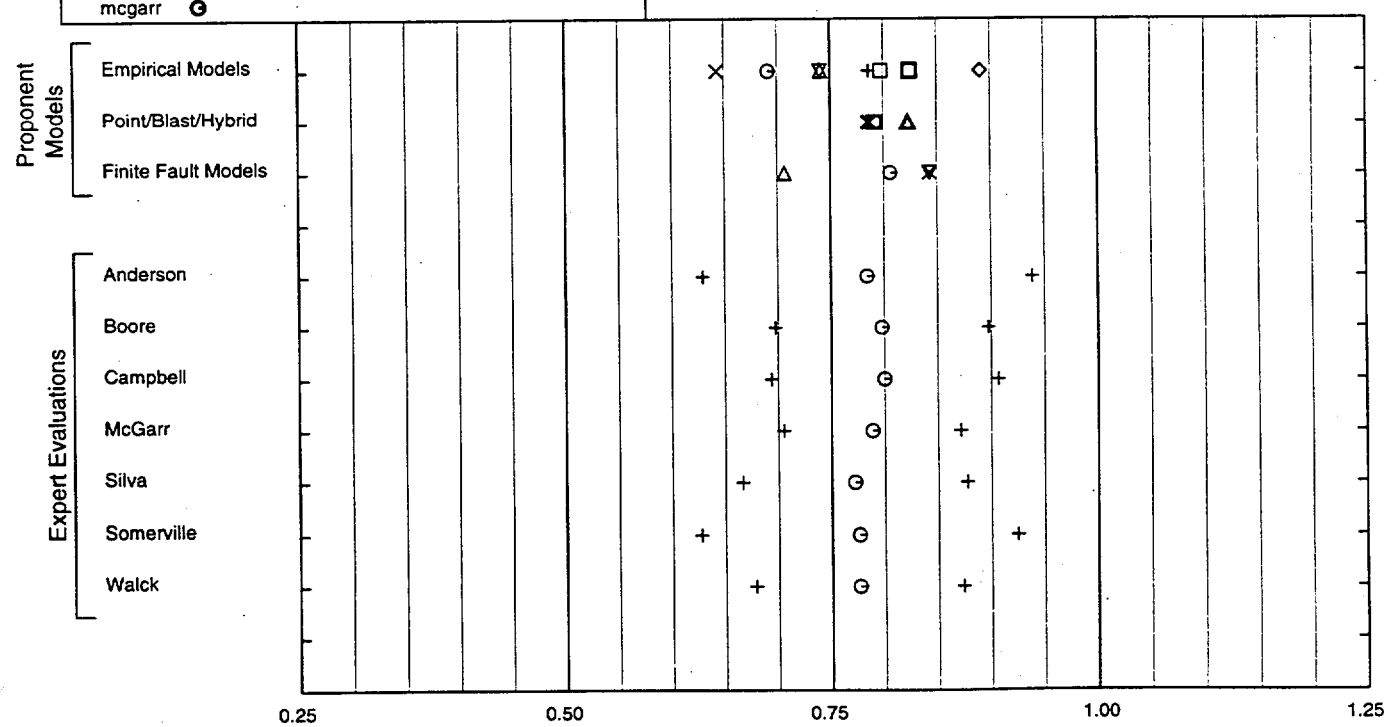
case 5, M= 5.8, deep, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

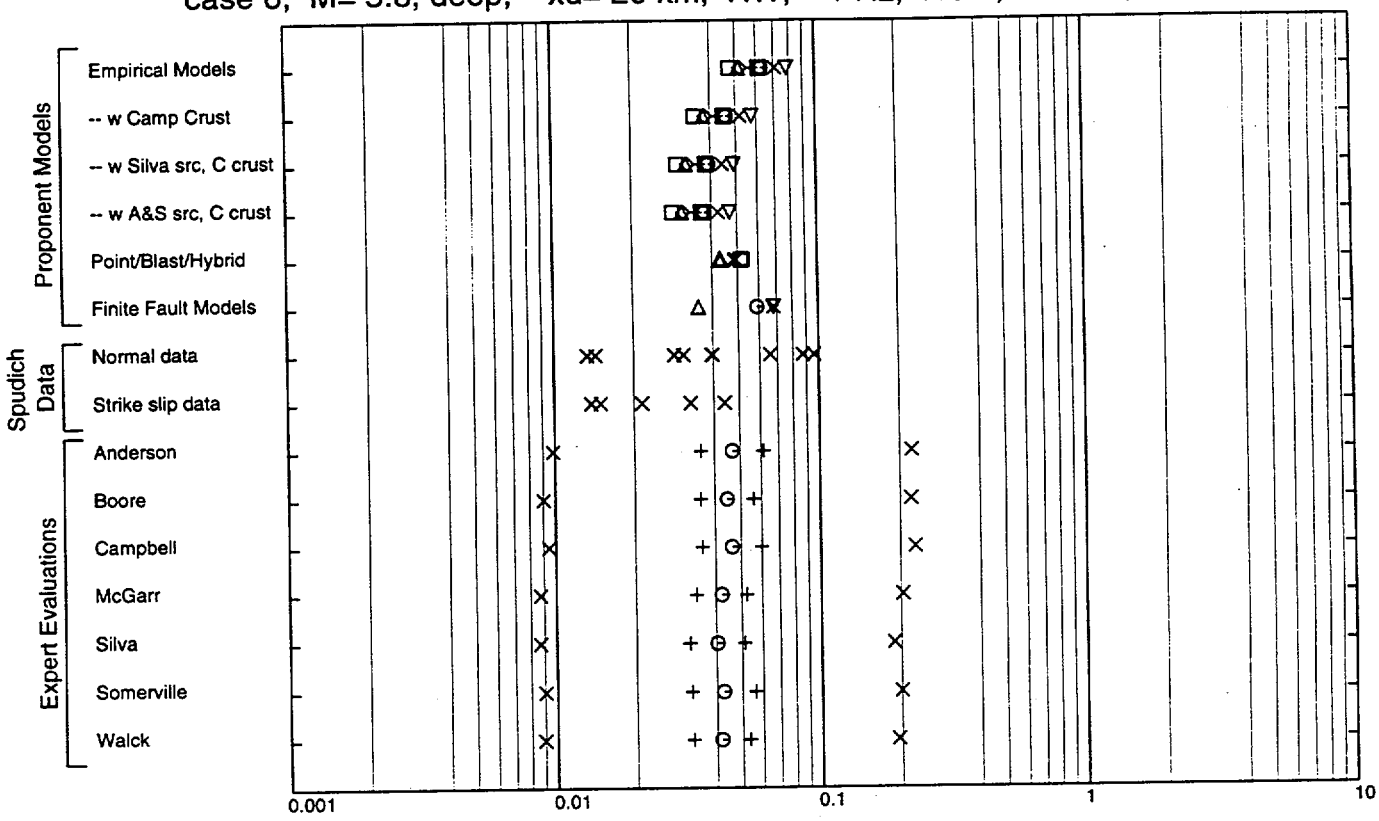
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

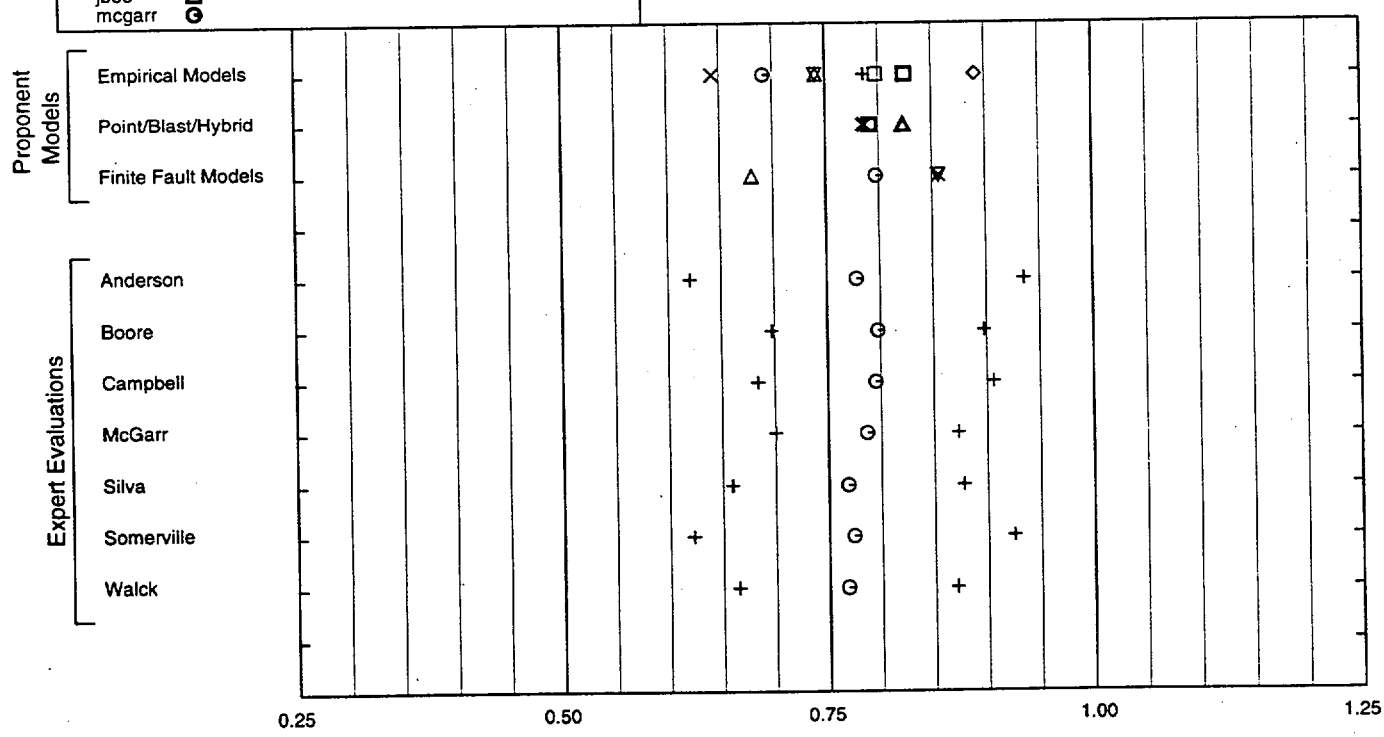
case 6, M= 5.8, deep, xd= 20 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

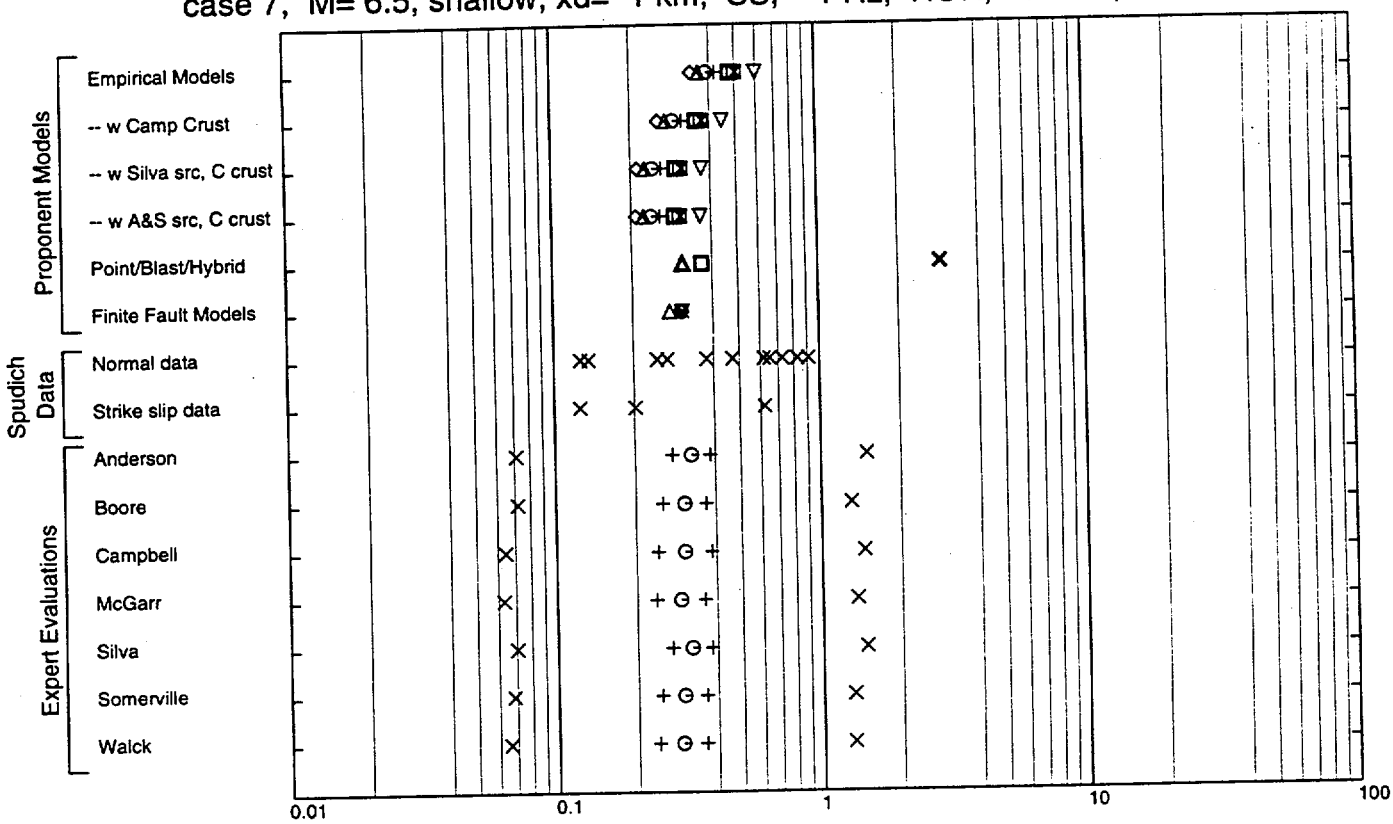
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



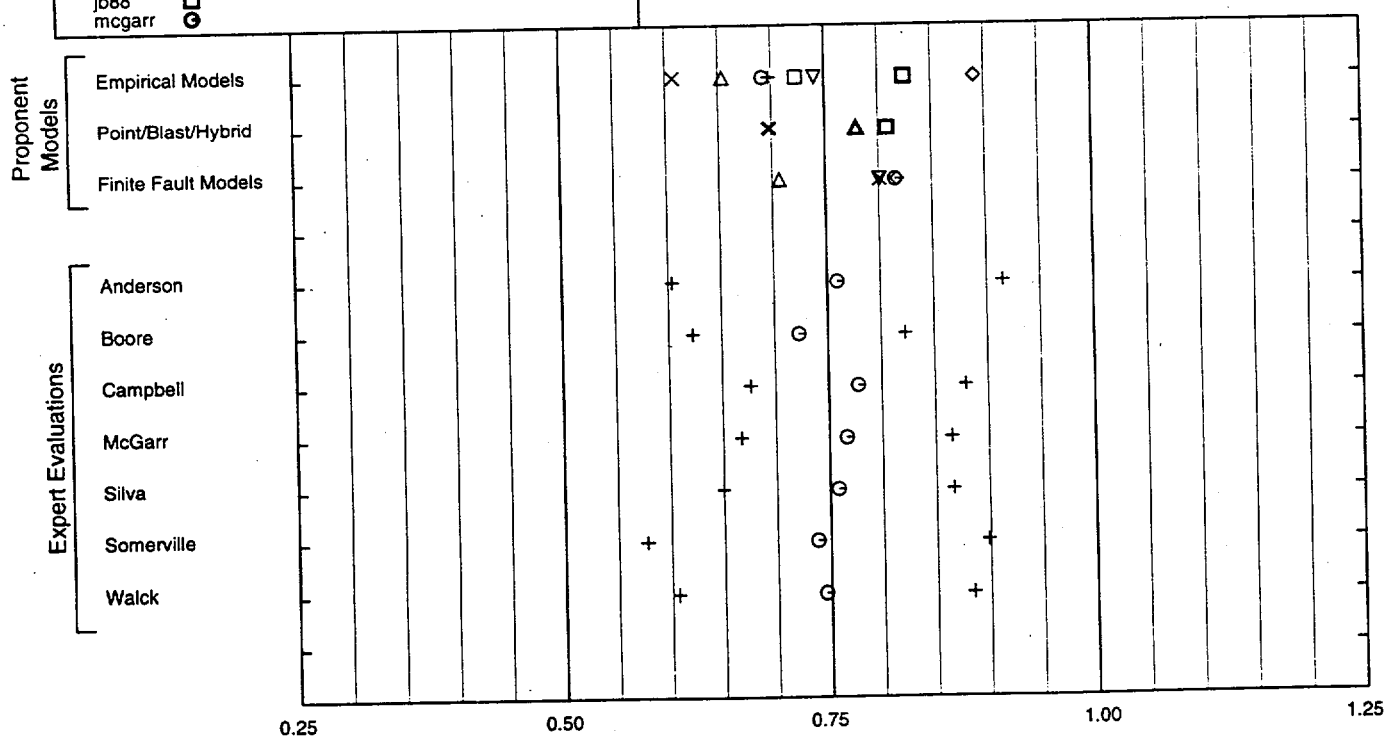
Aleatory Sigma (LN units) w/ Comp Var.

case 7, M= 6.5, shallow, xd= 1 km, SS, 1 Hz, HOR, 6/5/97, Rev 1

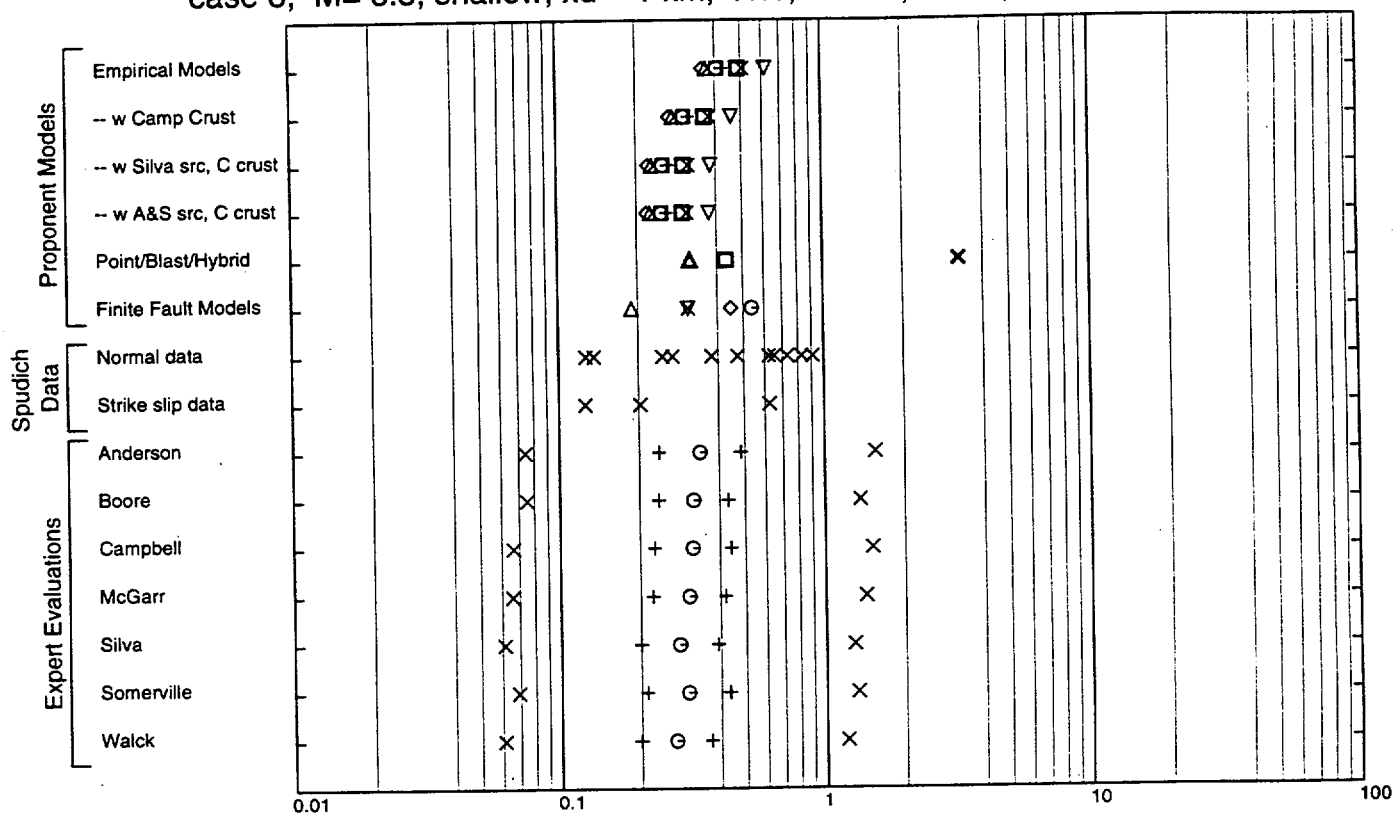


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



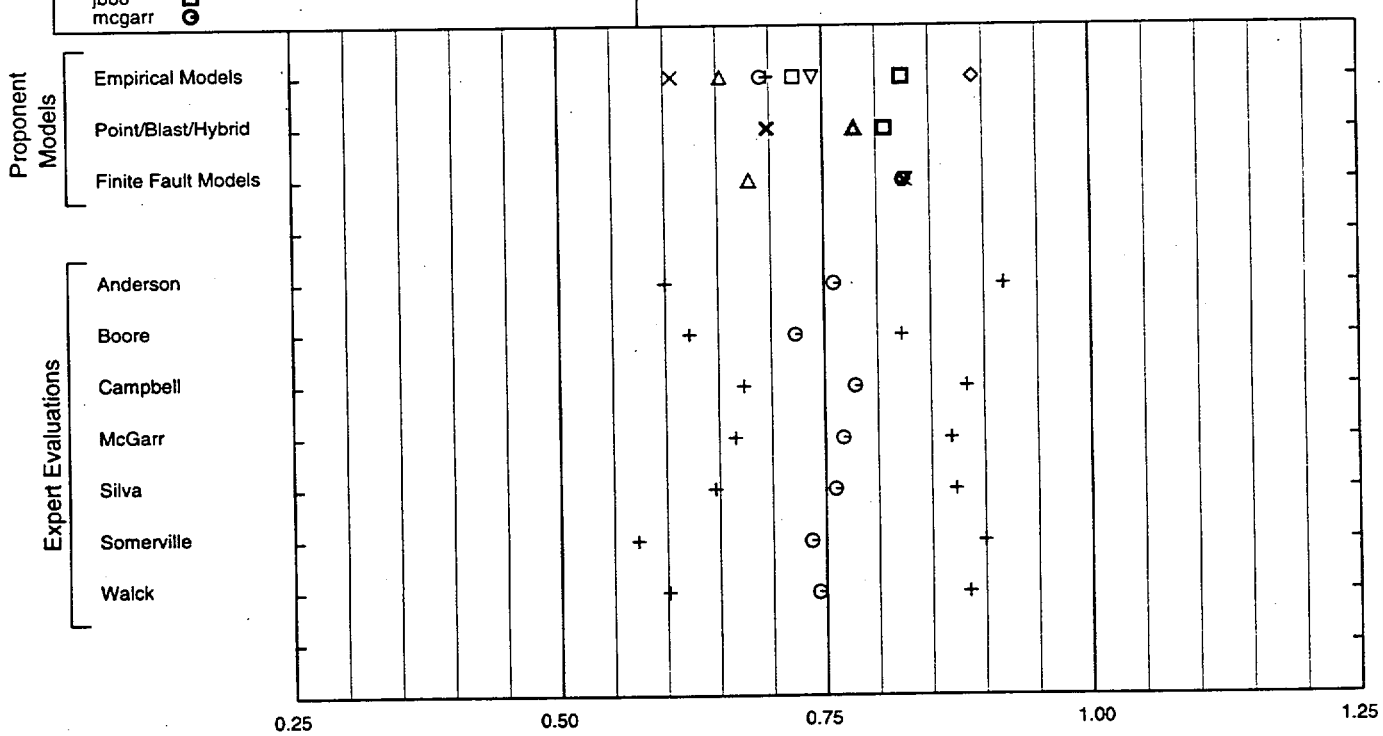
case 8, M= 6.5, shallow, xd= 1 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

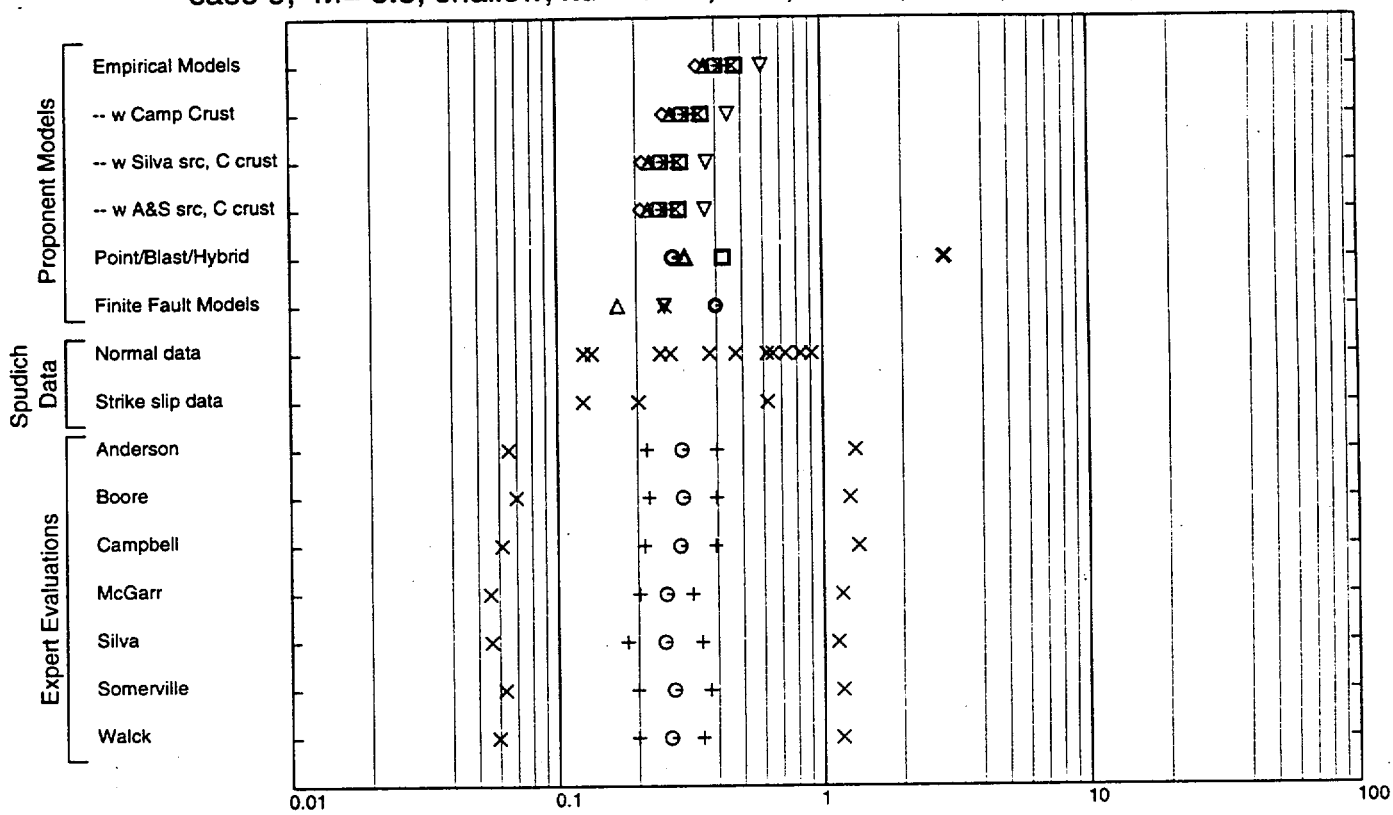
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

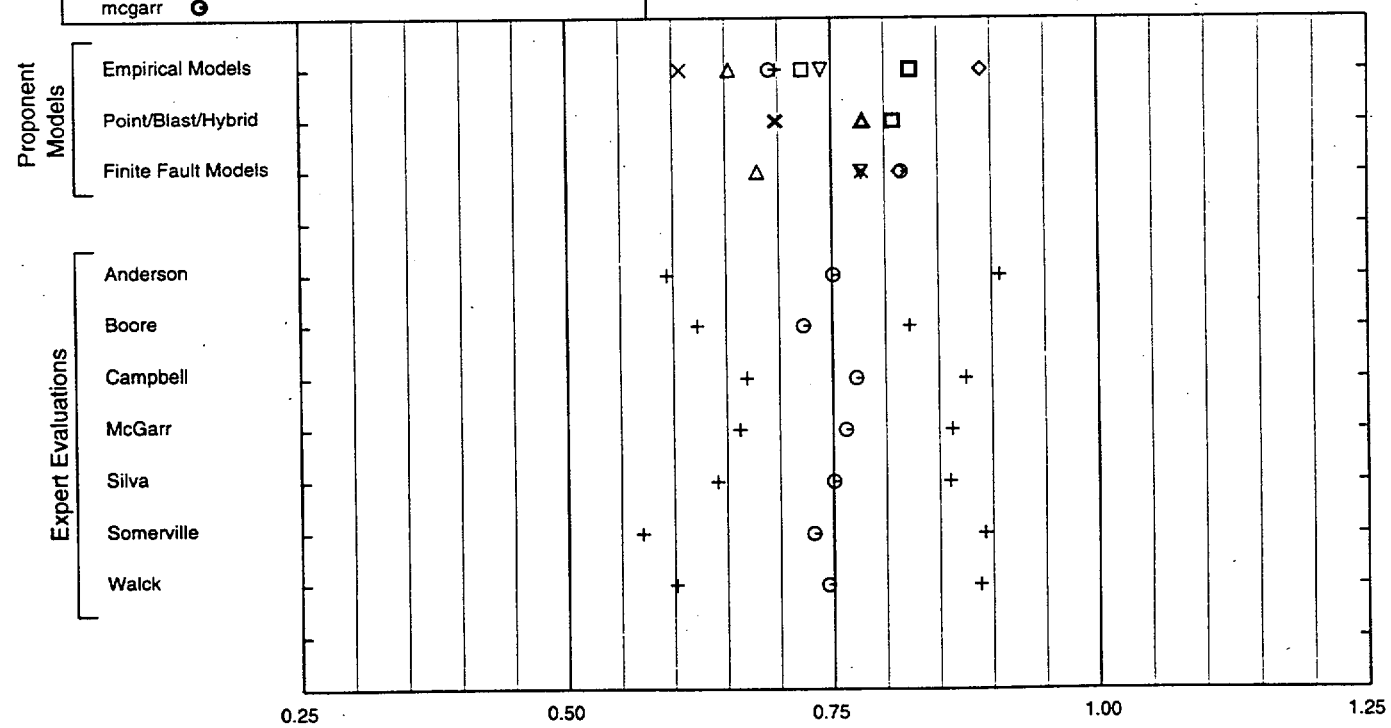
case 9, M= 6.5, shallow, xd= -1 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

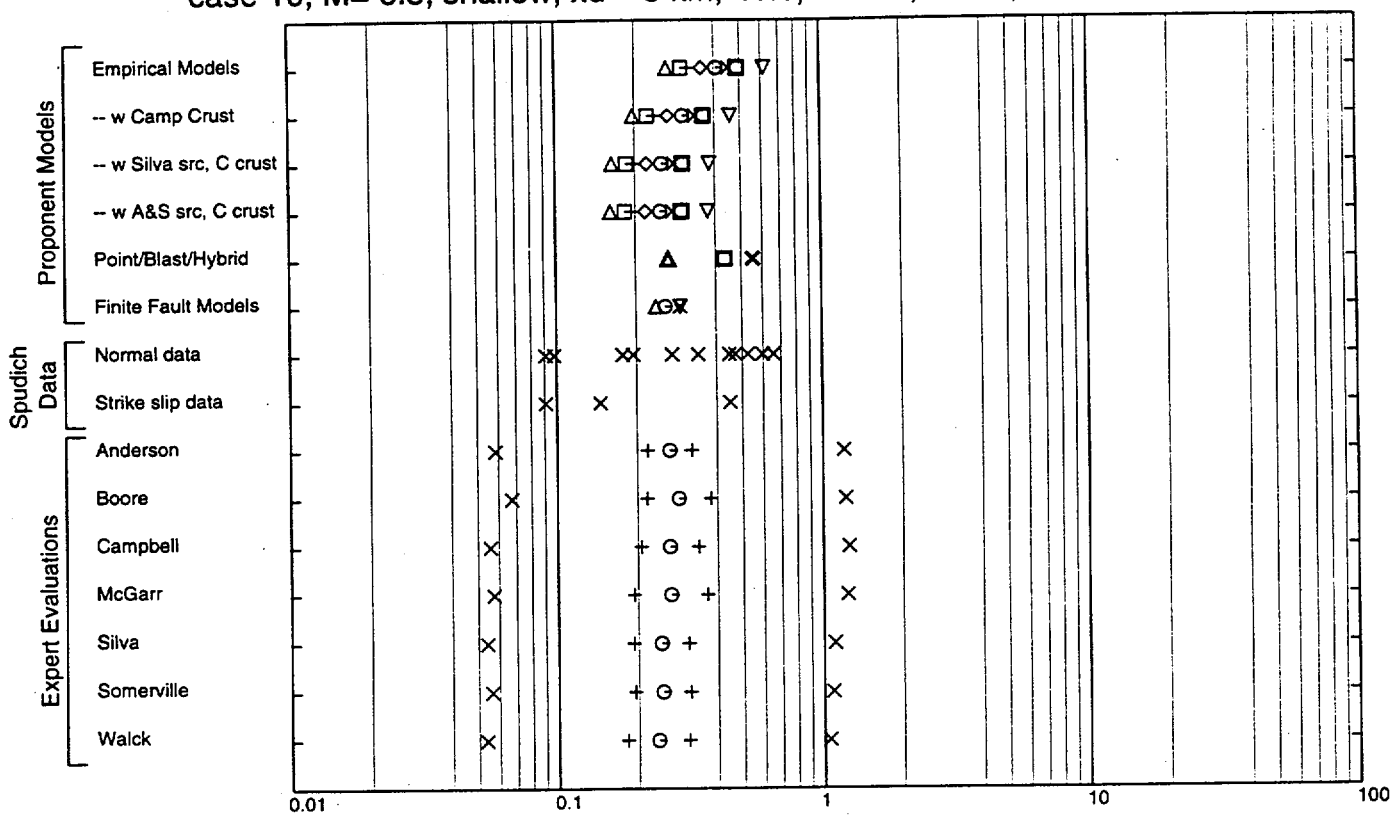
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

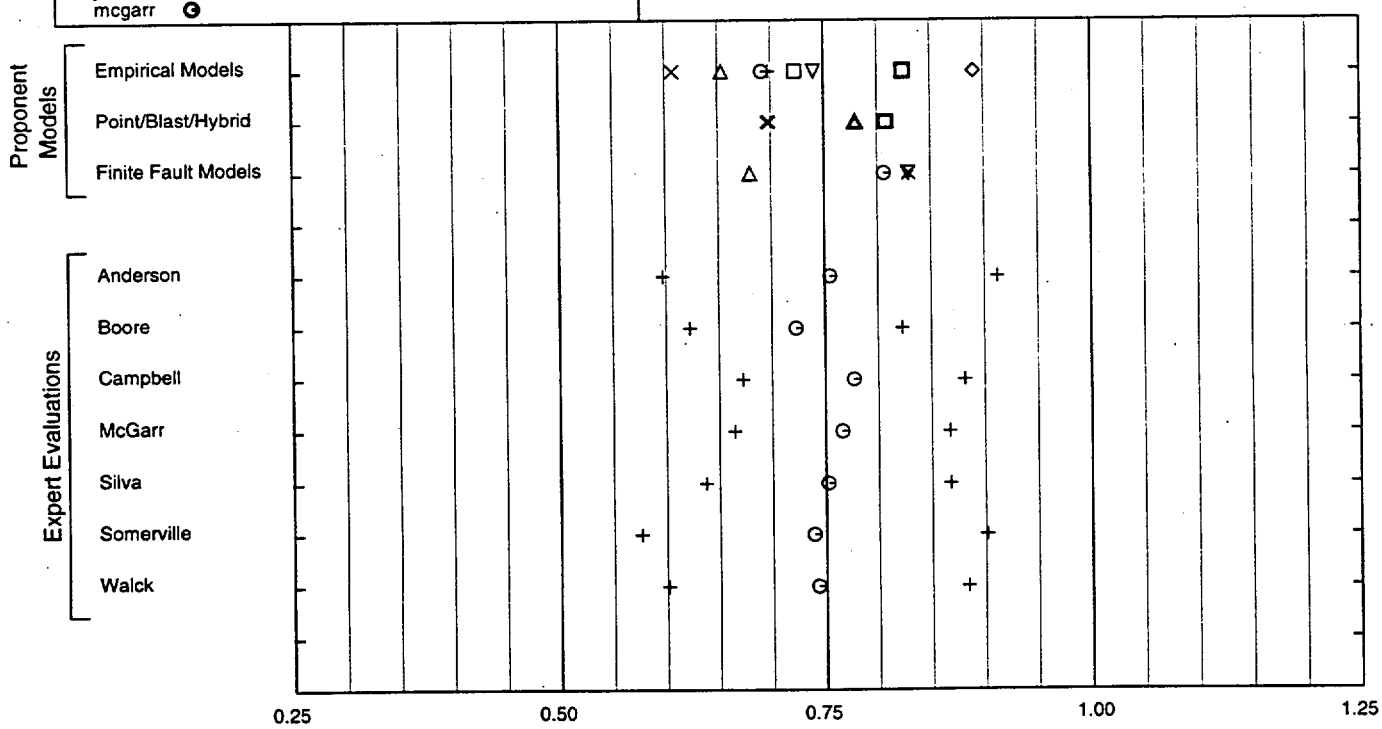
case 10, M= 6.5, shallow, xd= 5 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

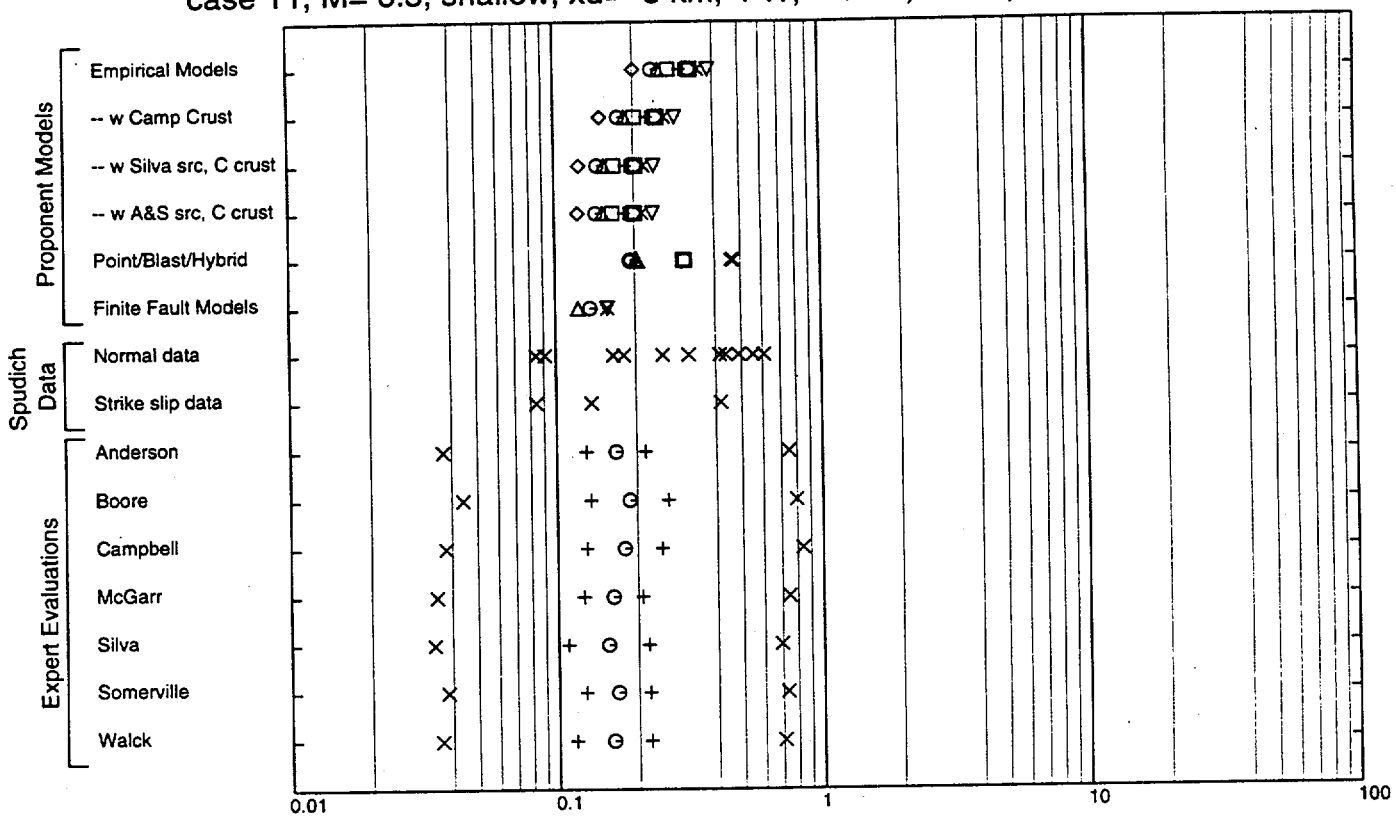
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

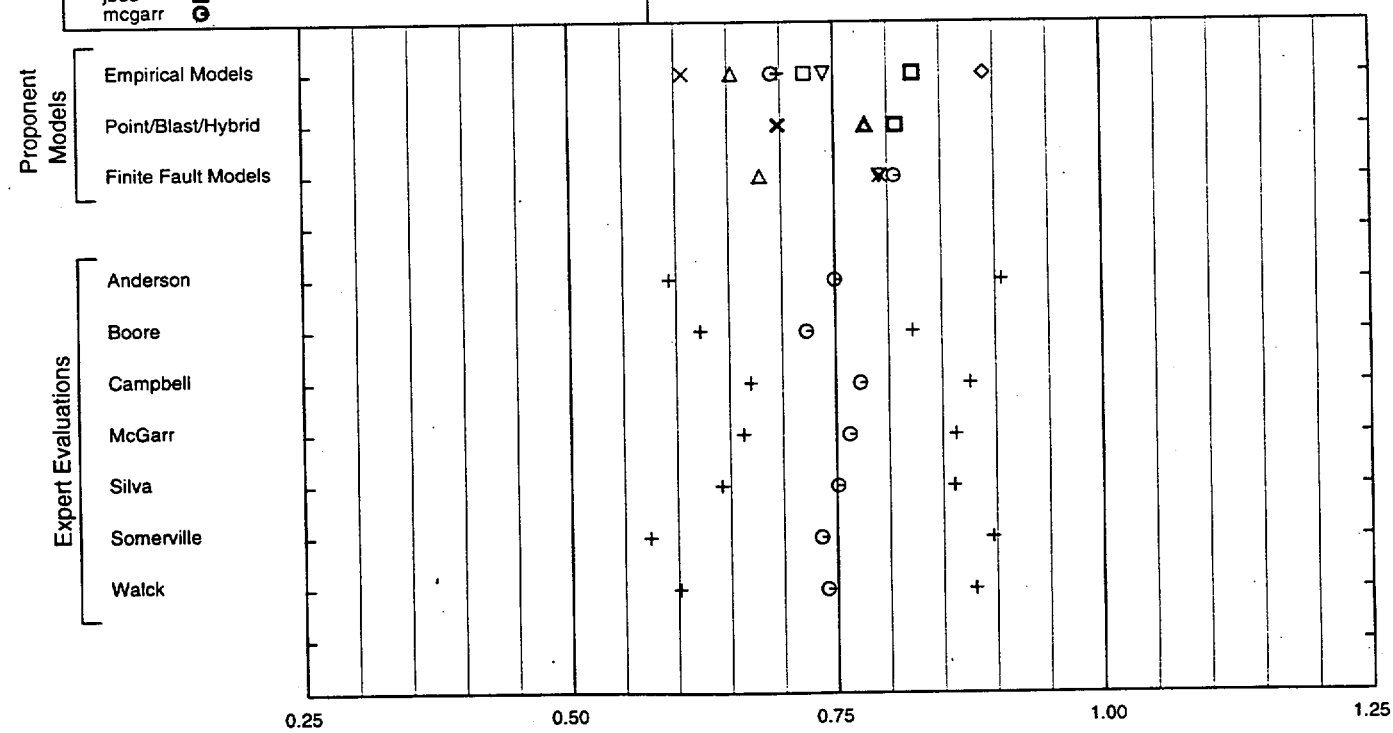
case 11, M= 6.5, shallow, xd= -5 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

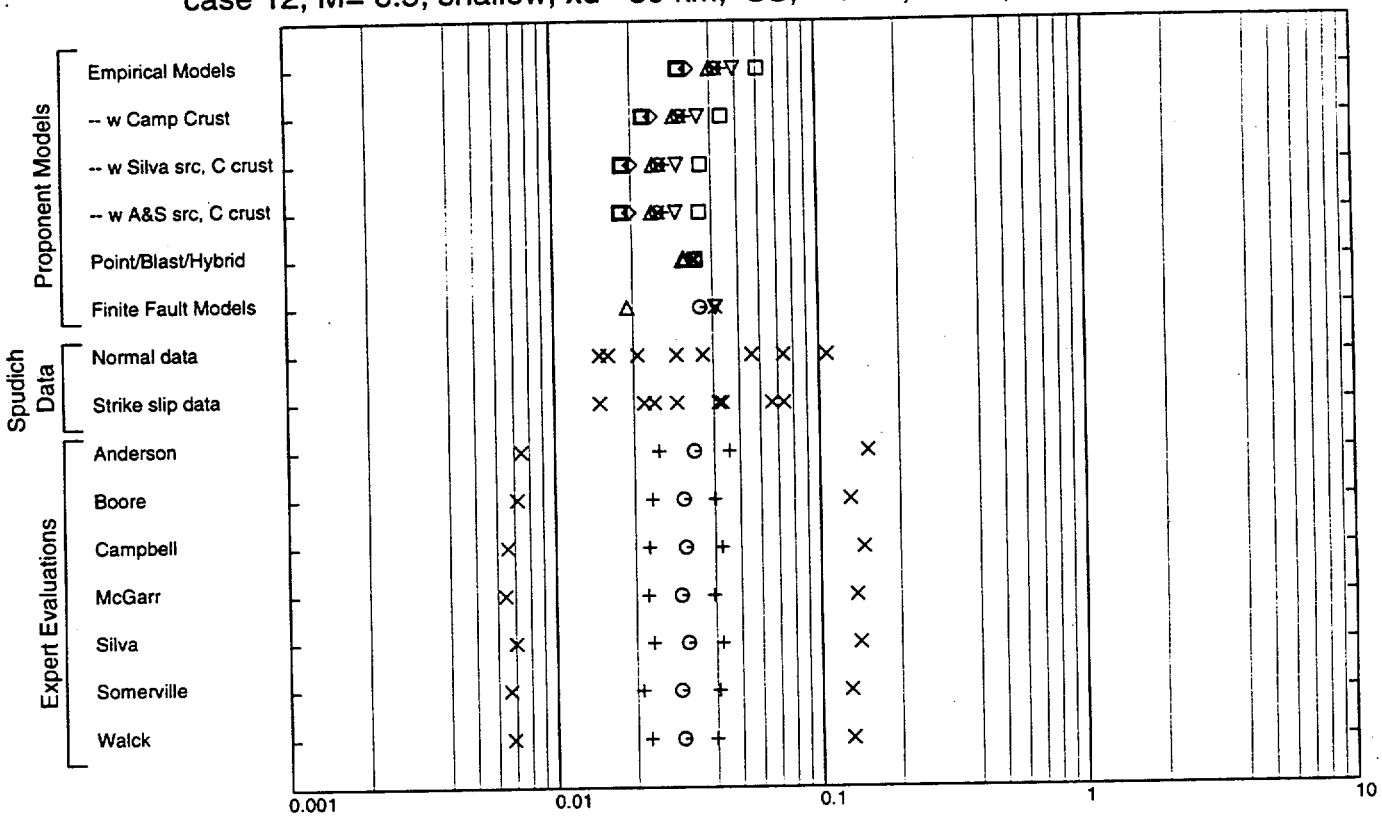
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

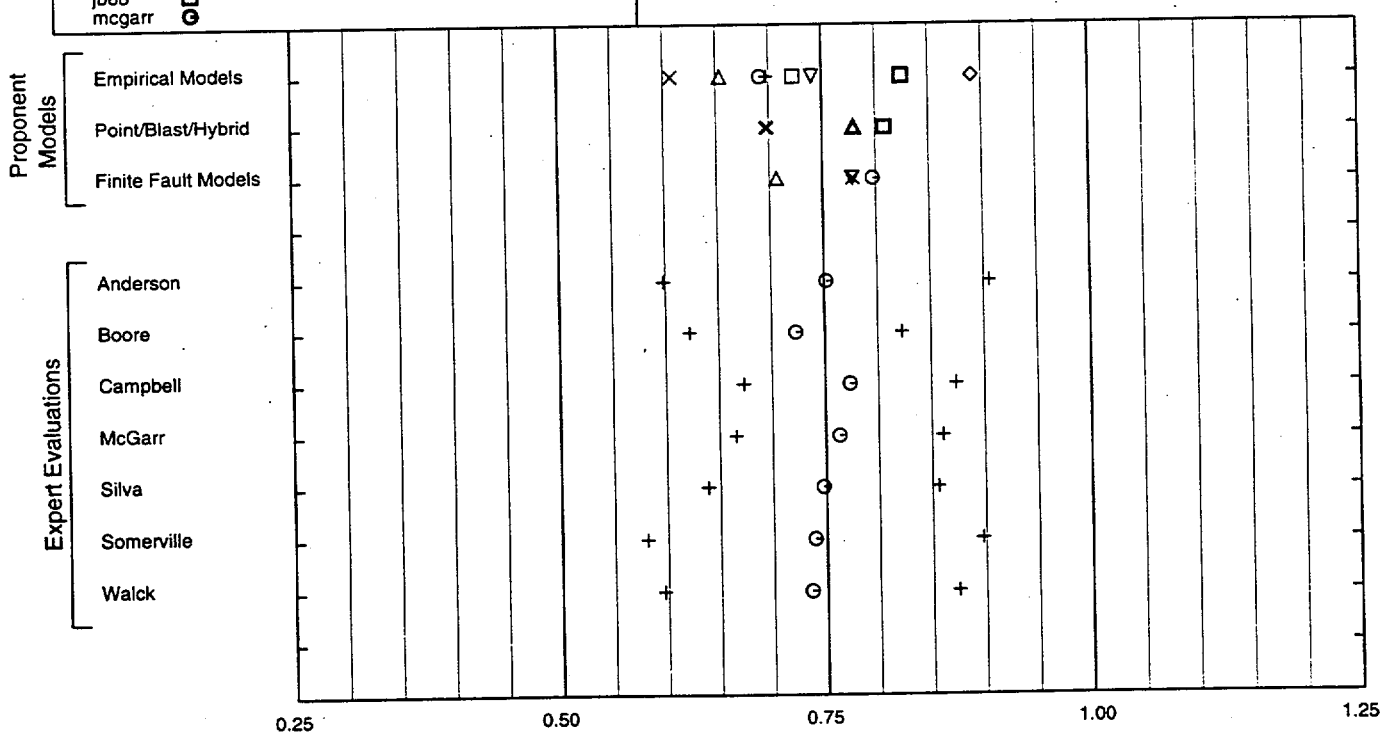
case 12, M= 6.5, shallow, xd= 50 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

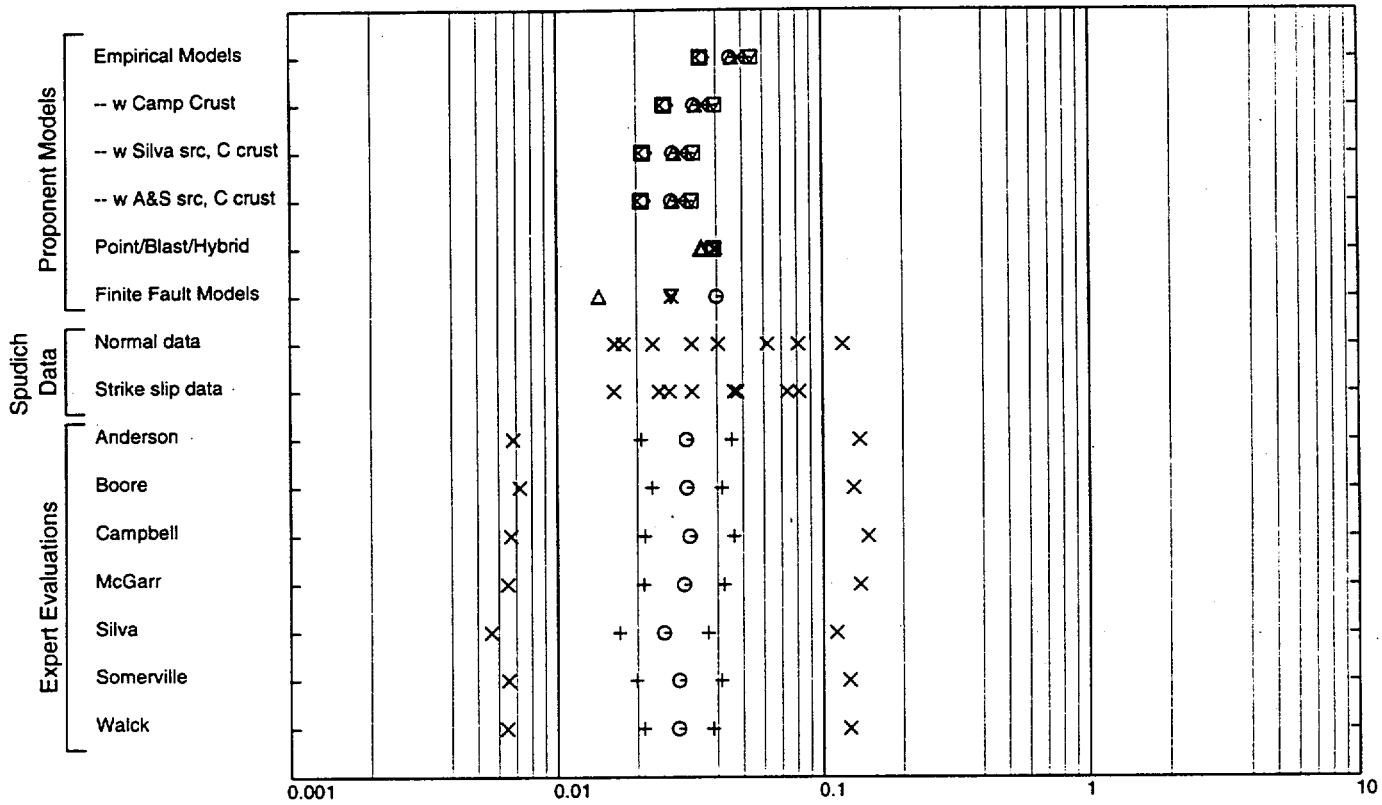
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

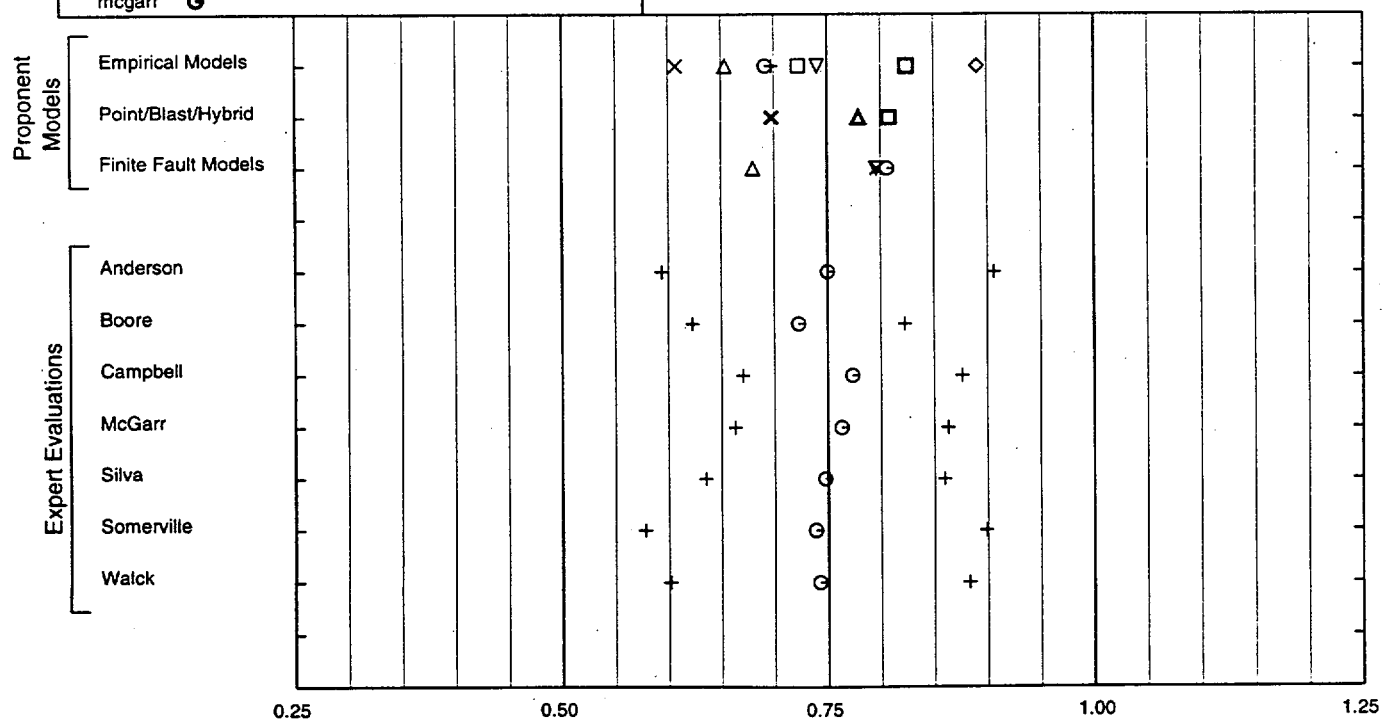
case 13, M= 6.5, shallow, xd= 50 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

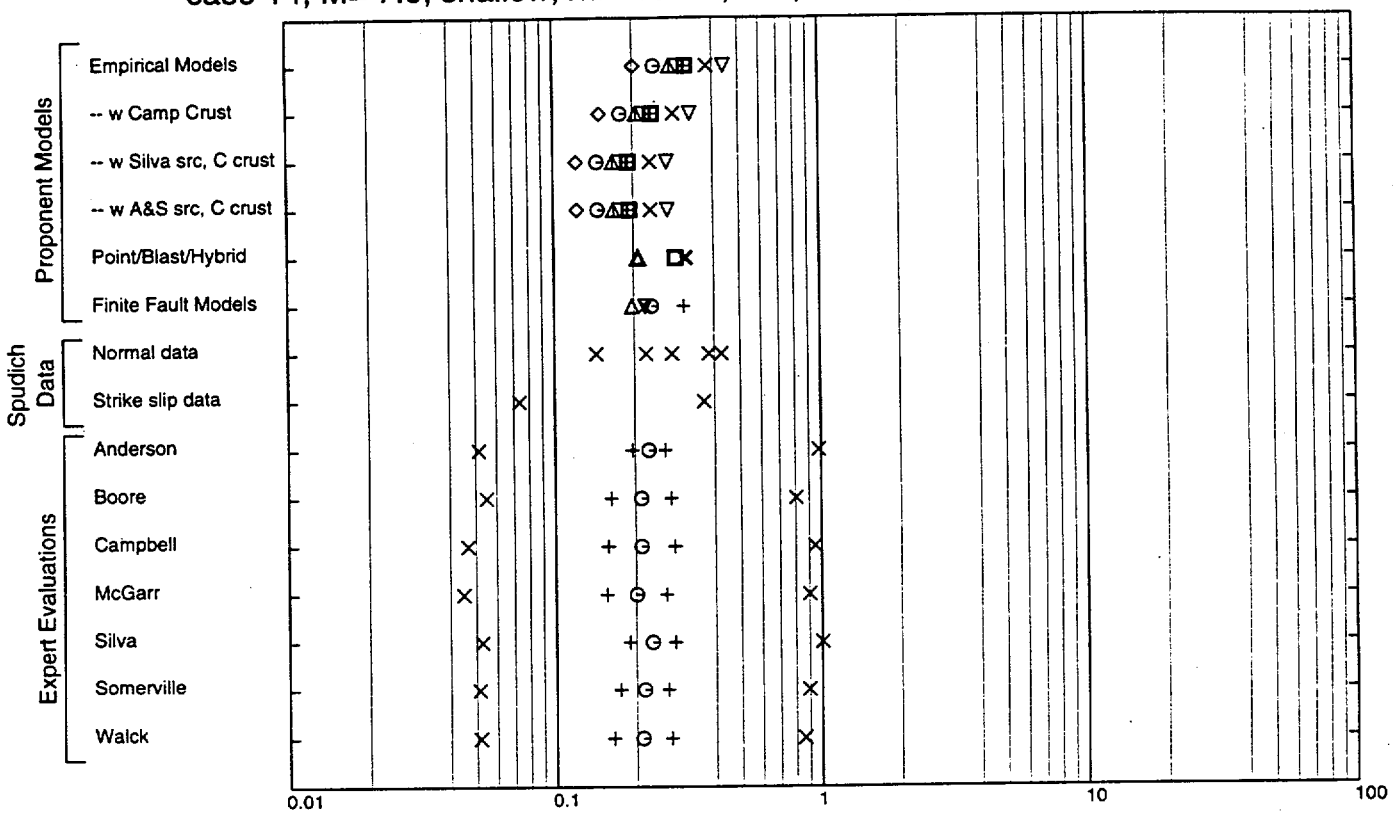
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

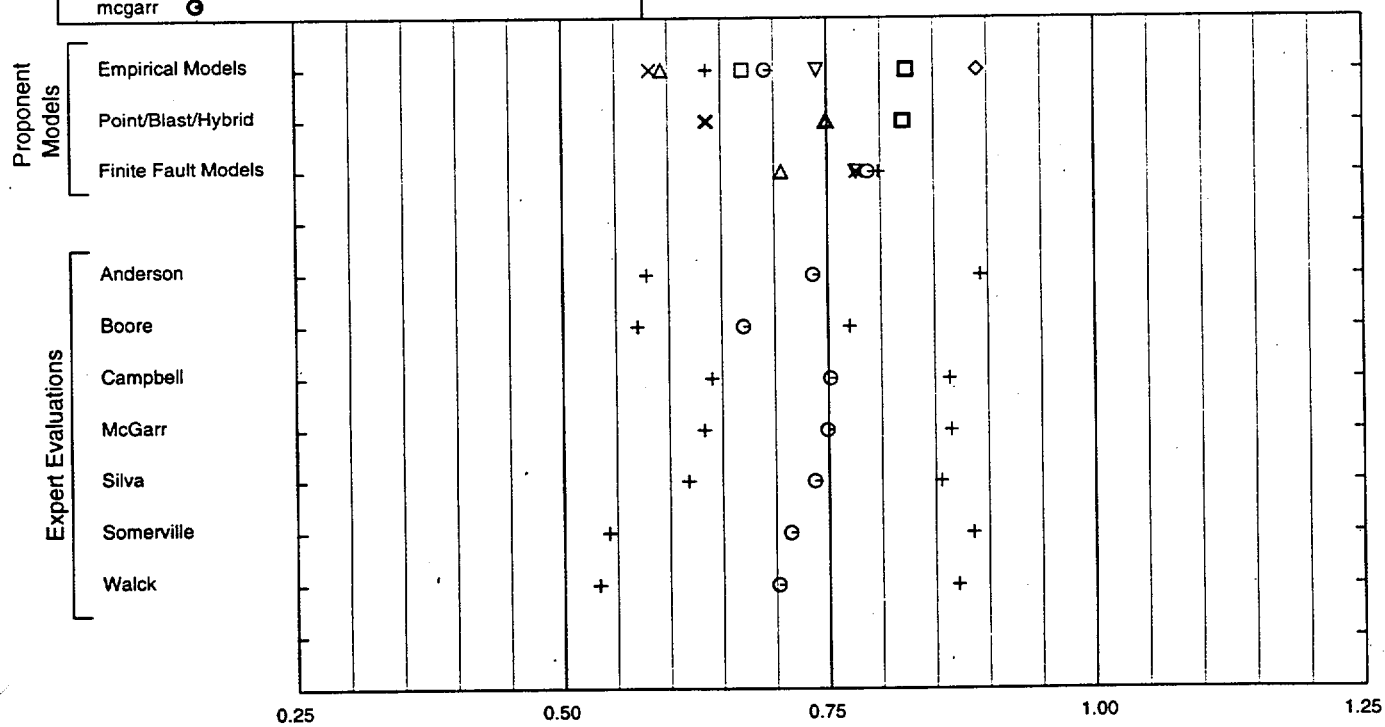
case 14, M= 7.0, shallow, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

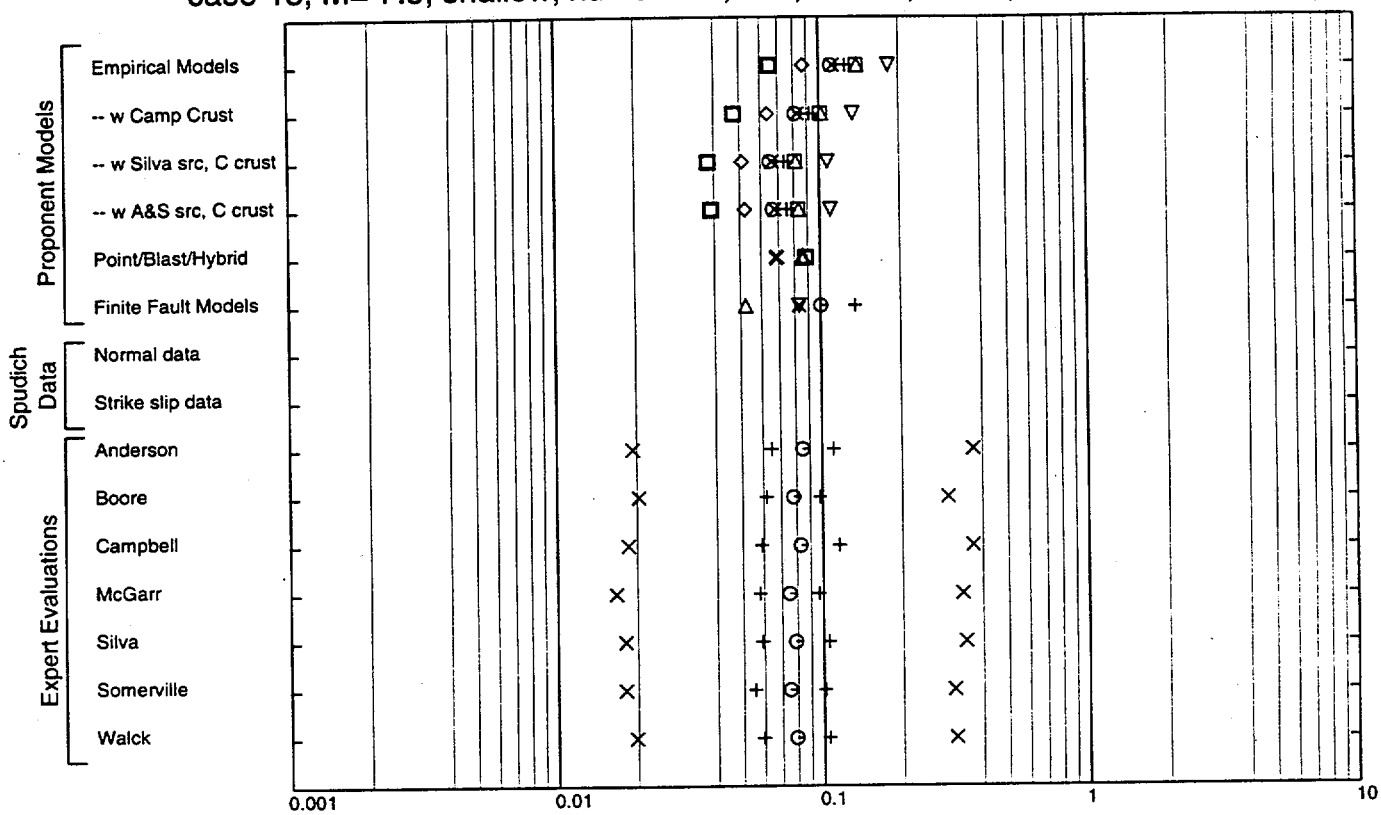
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

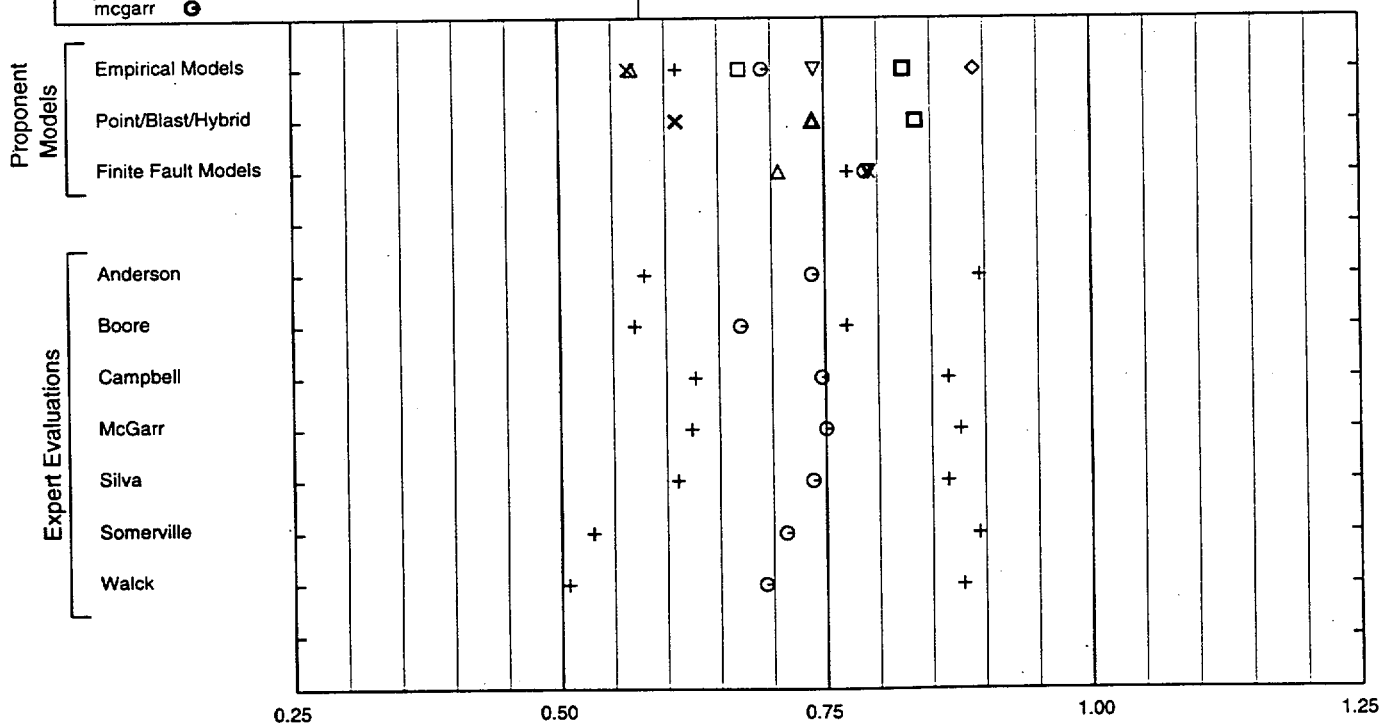
case 15, M= 7.5, shallow, xd= 50 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

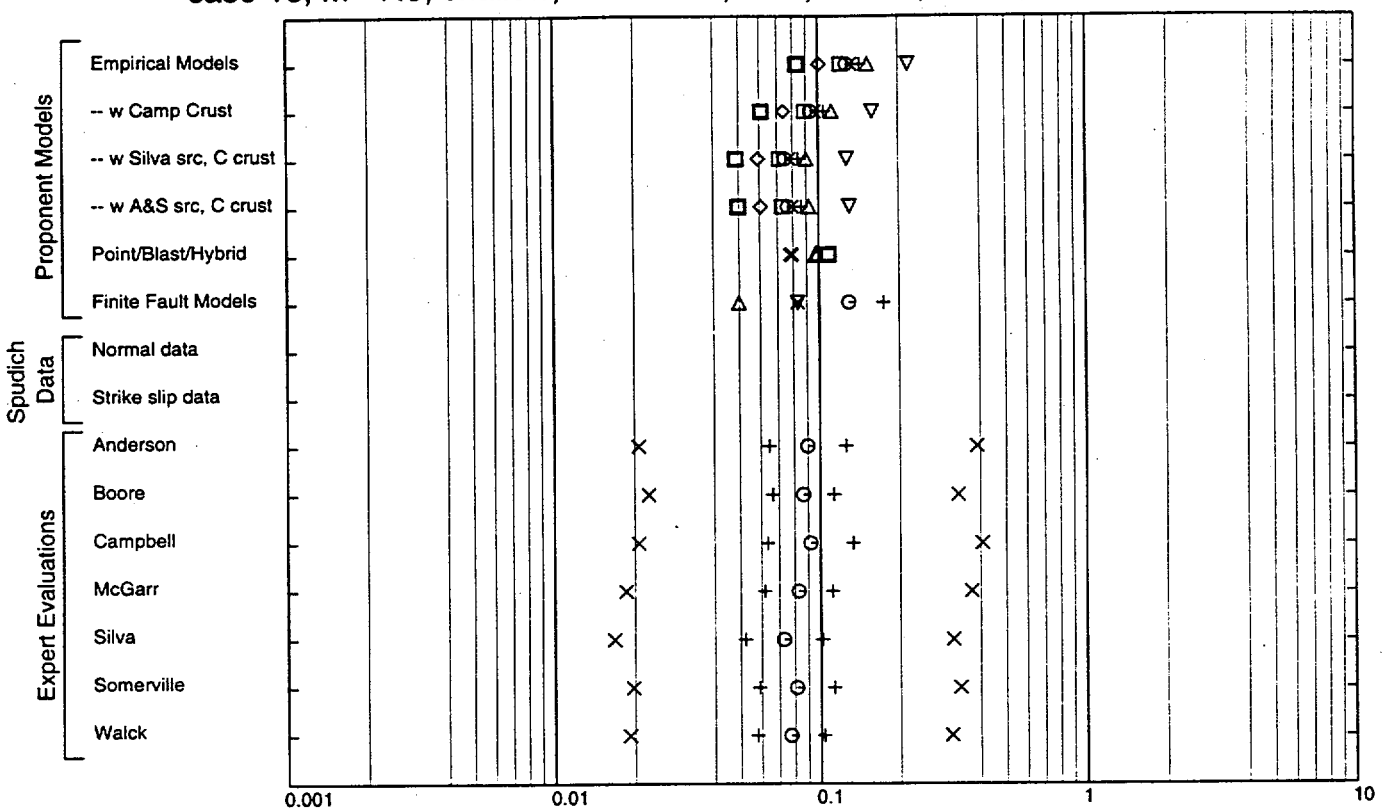
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



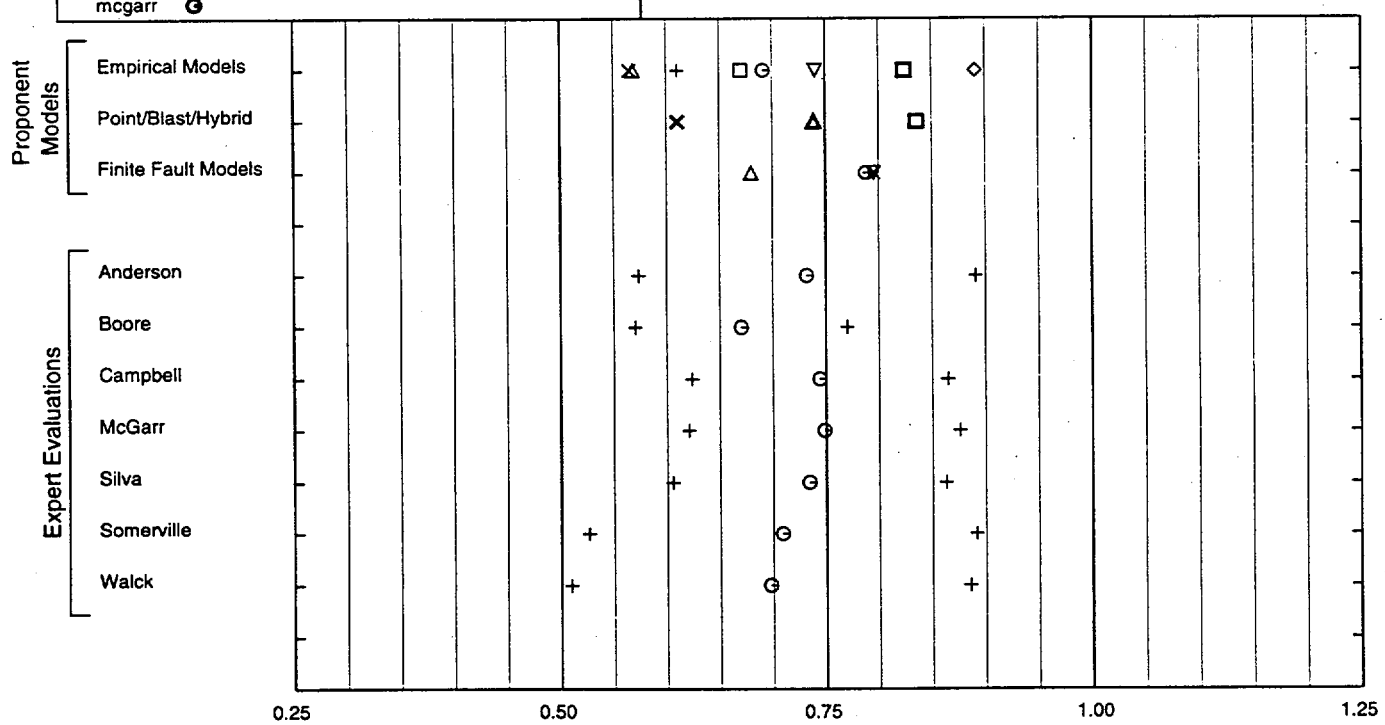
Aleatory Sigma (LN units) w/ Comp Var.

case 16, M= 7.5, shallow, xd= 50 km, HW, 1 Hz, HOR, 6/5/97, Rev 1

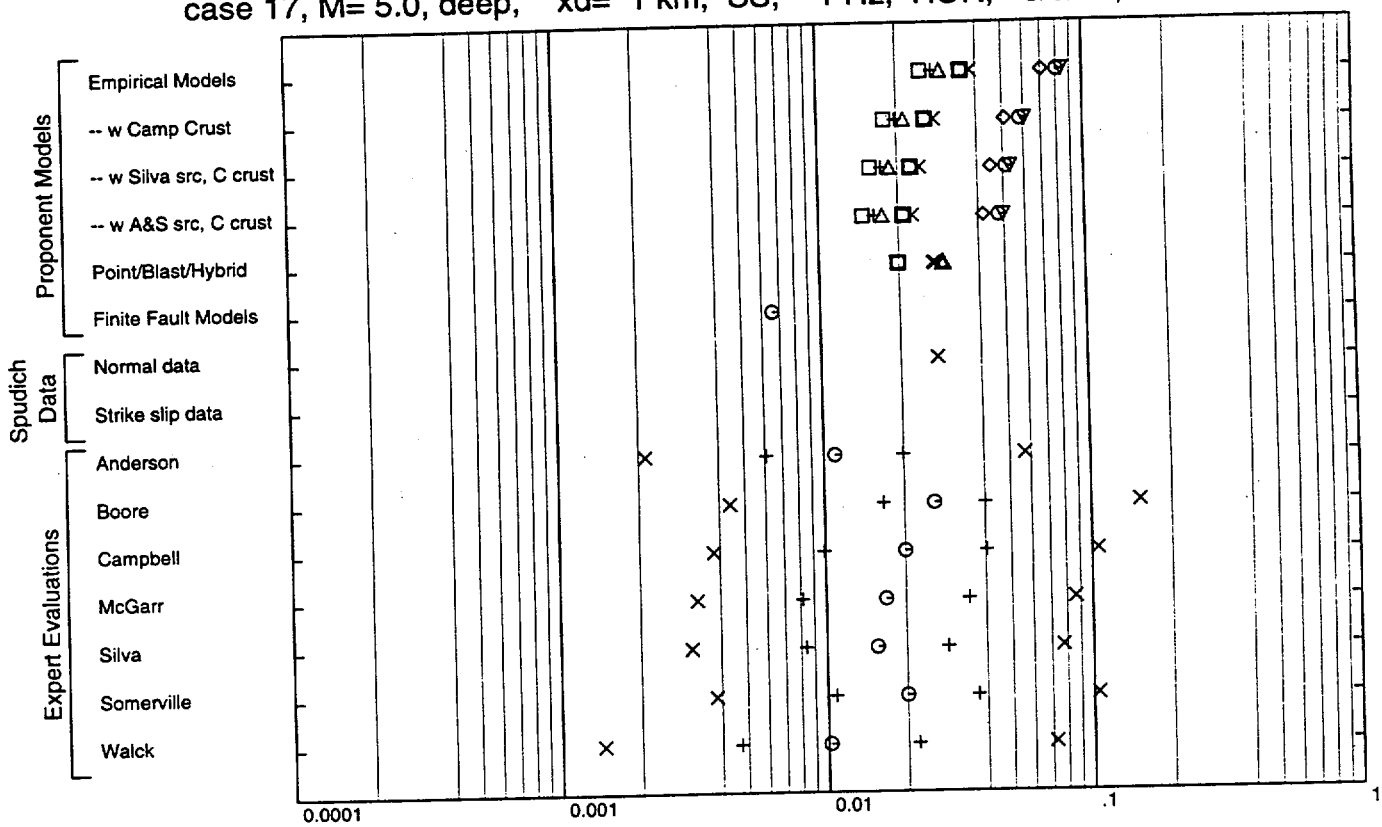


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



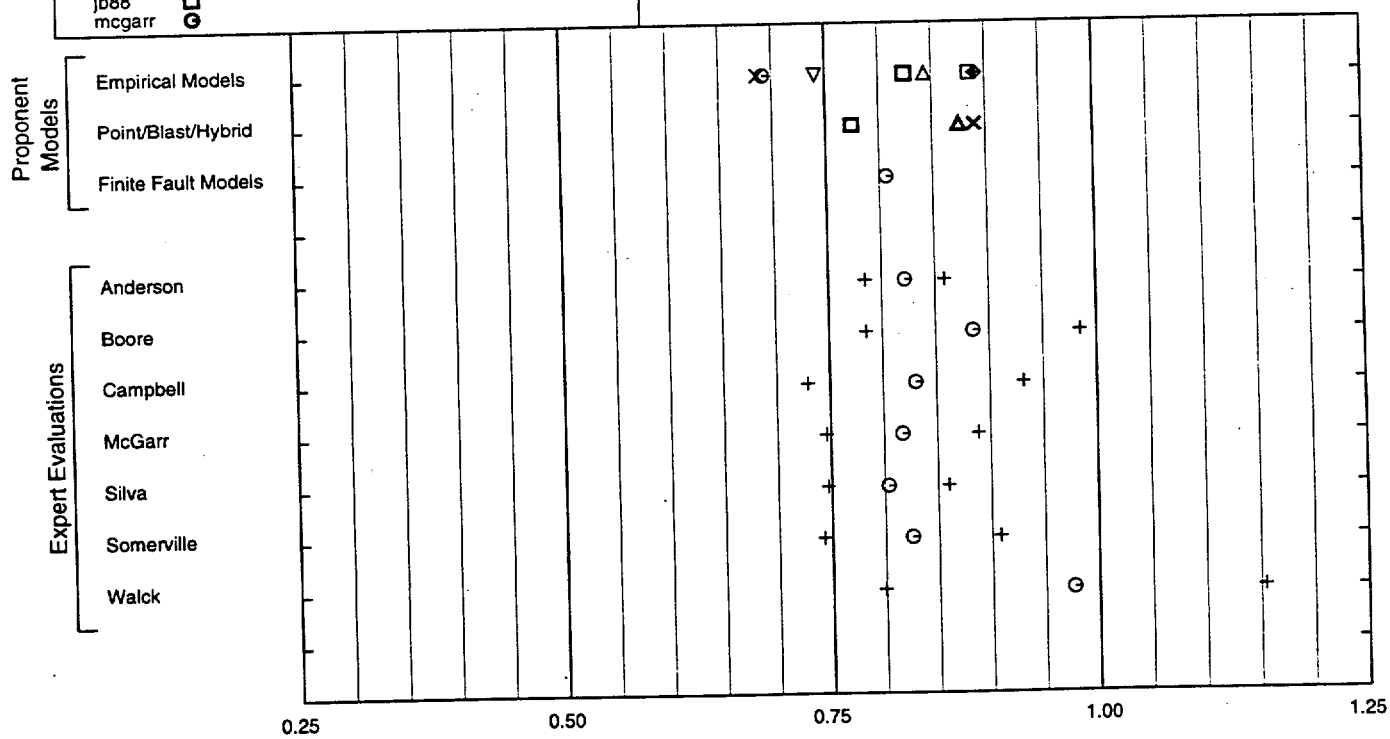
case 17, M= 5.0, deep, xd= 1 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

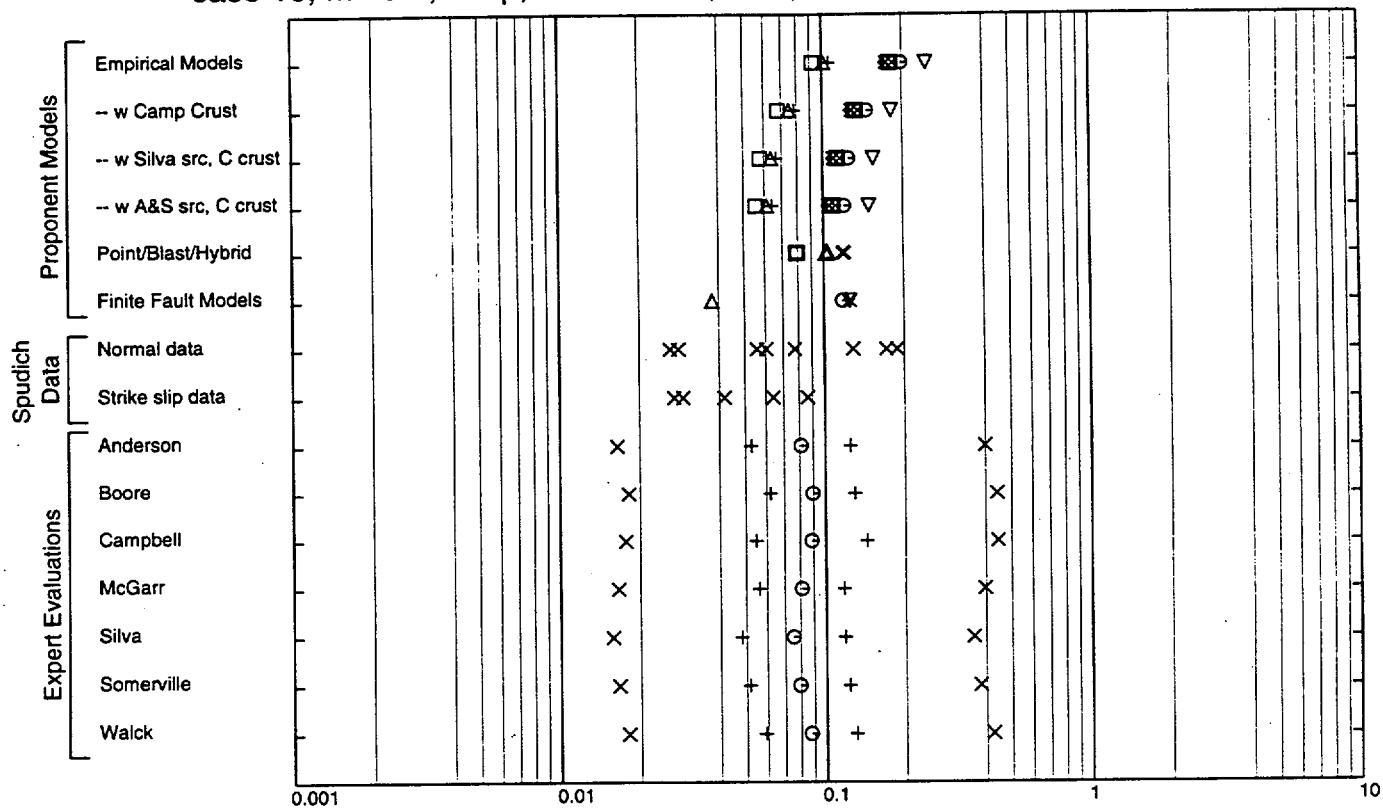
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

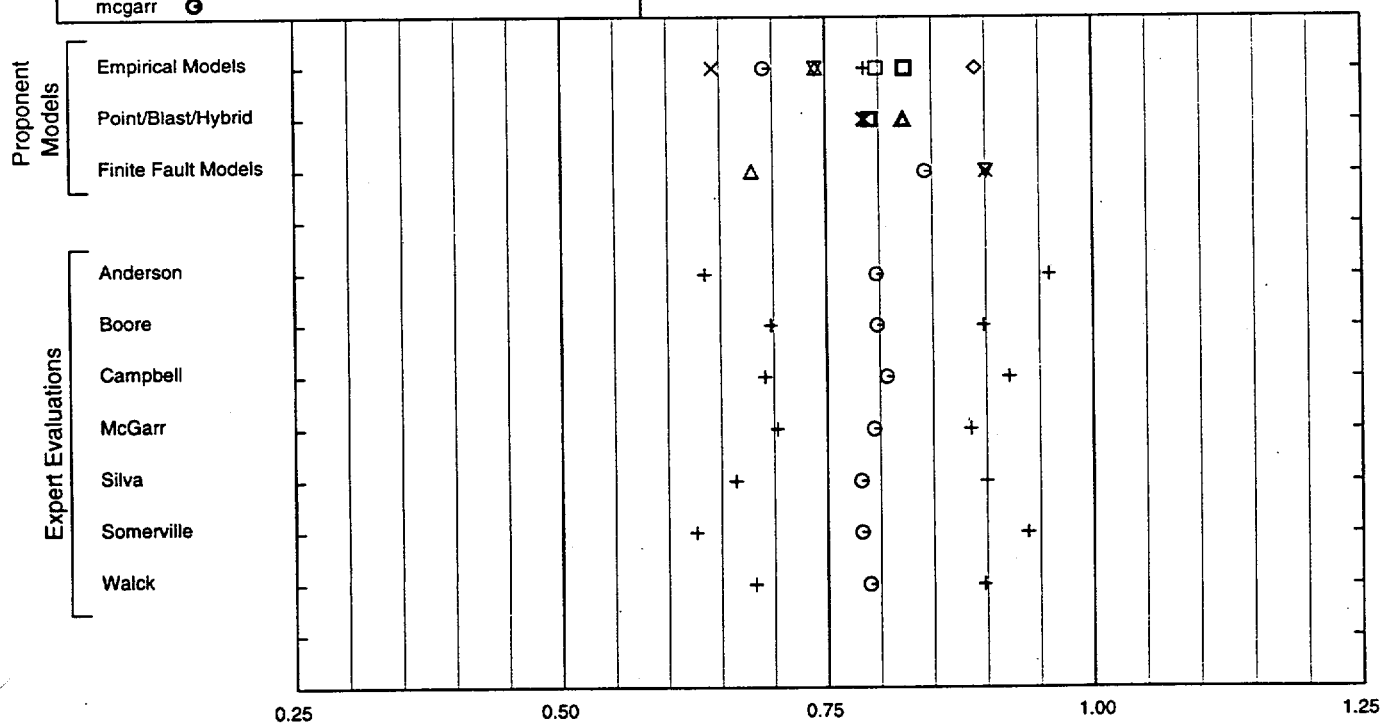
case 18, M= 5.8, deep, xd= 5 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

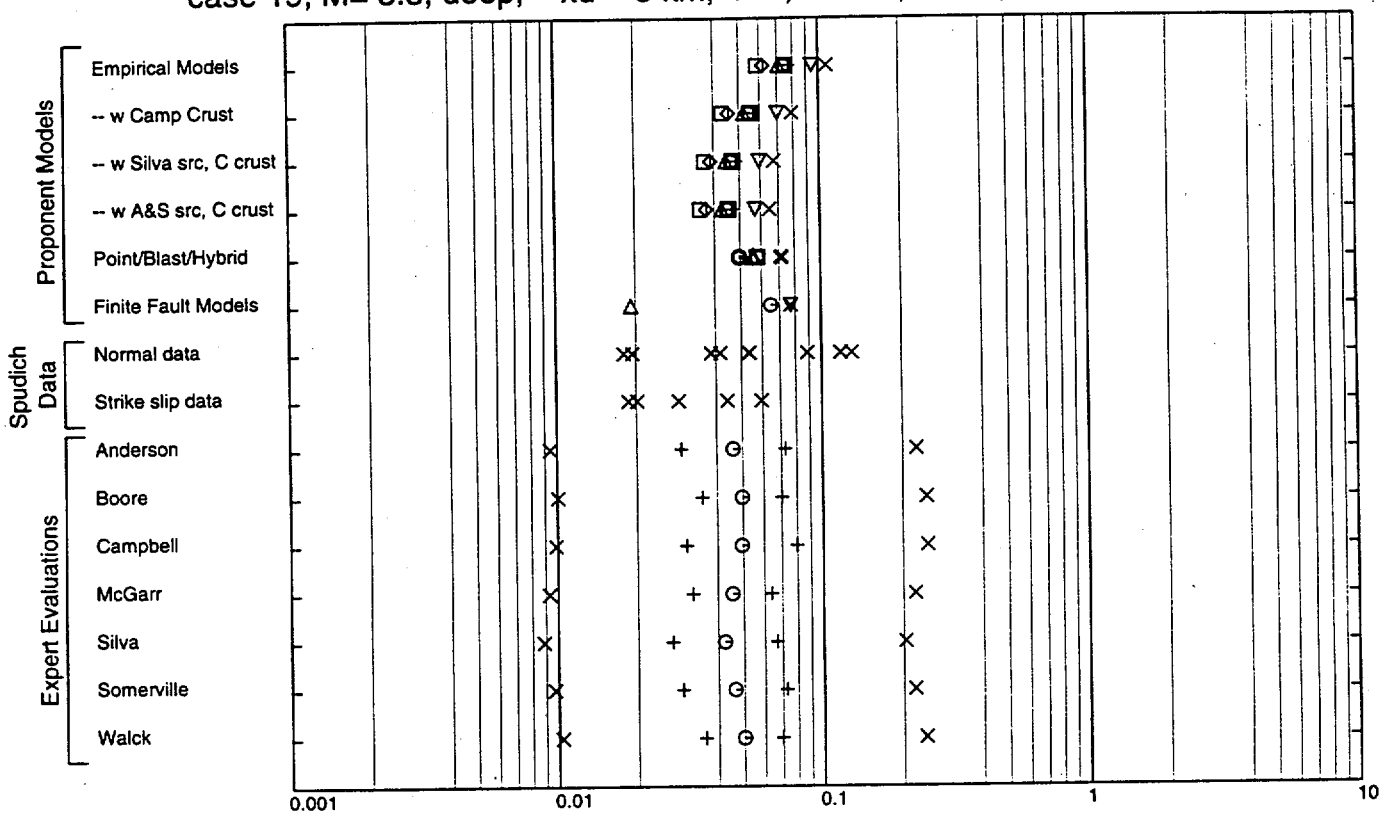
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

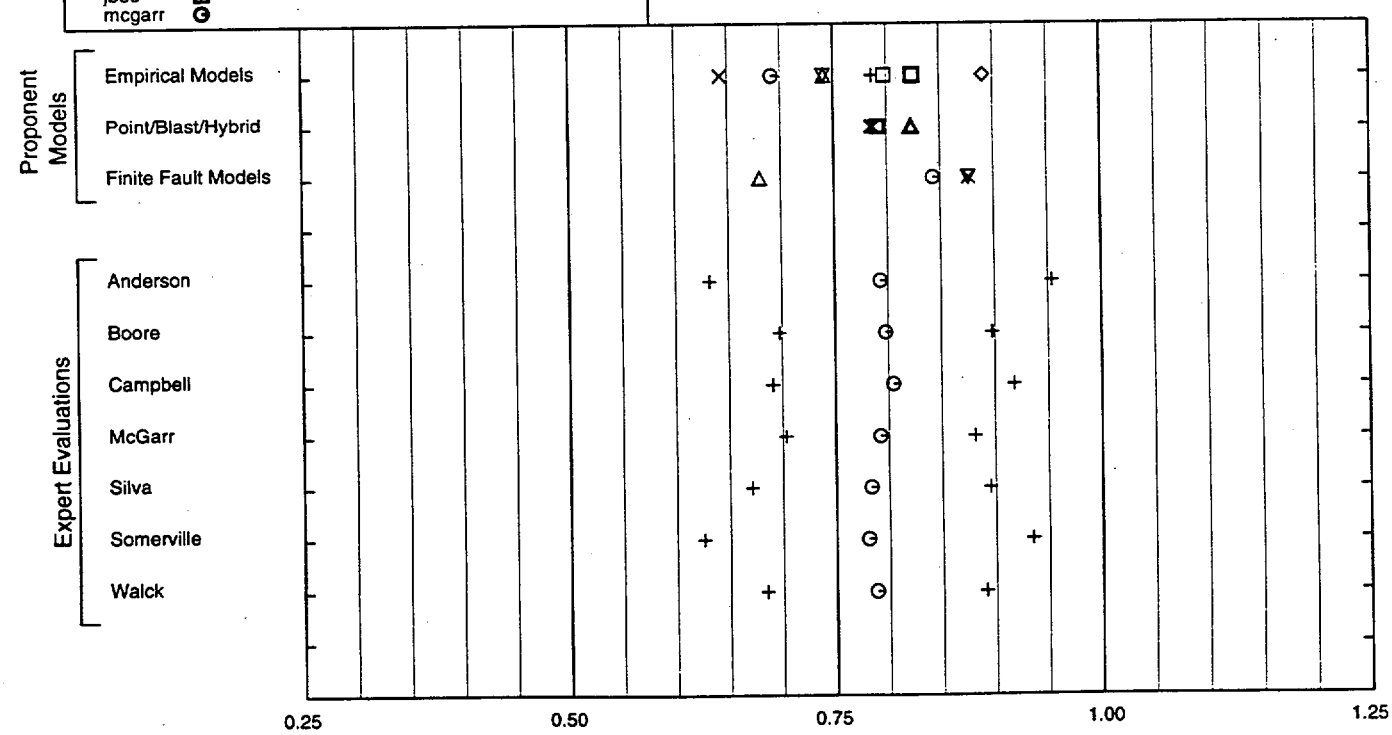
case 19, M= 5.8, deep, xd= -5 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

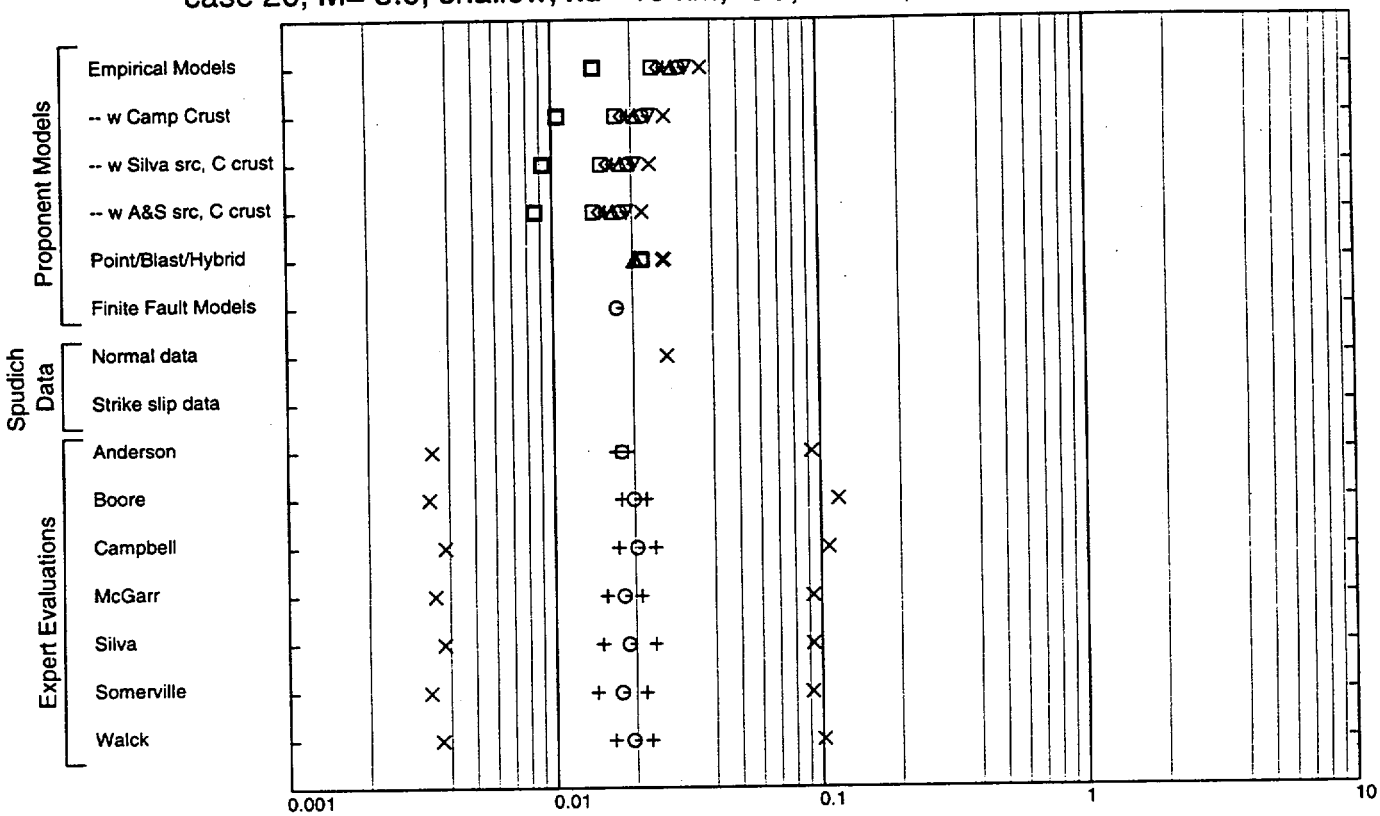
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



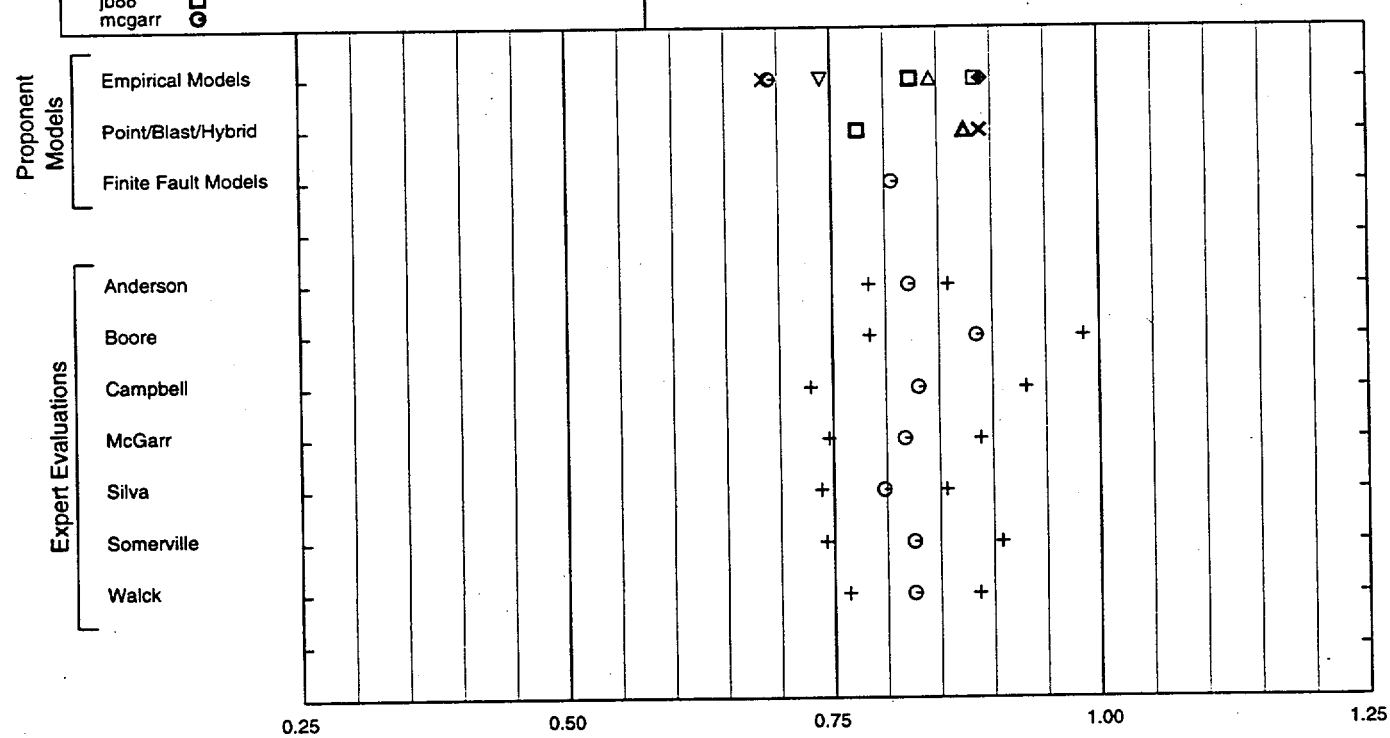
Aleatory Sigma (LN units) w/ Comp Var.

case 20, M= 5.0, shallow, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1

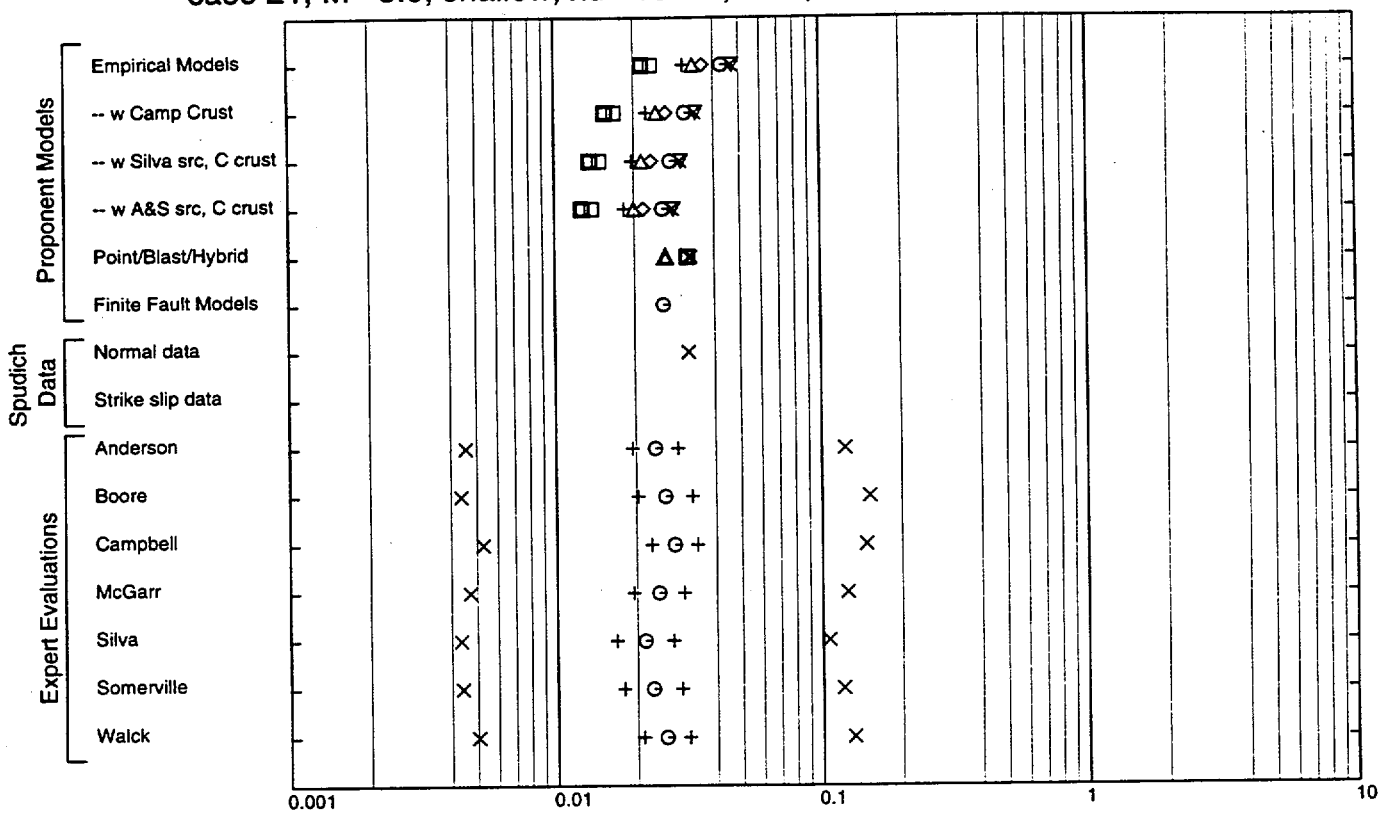


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

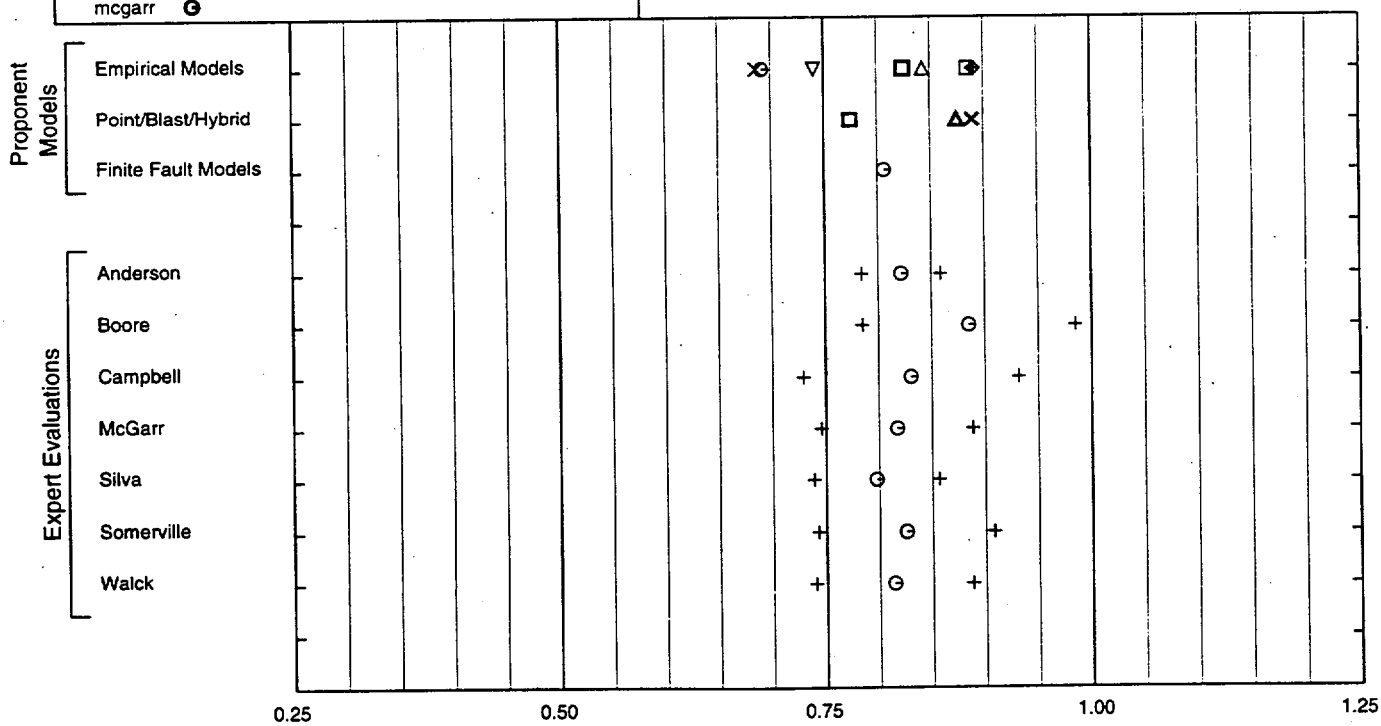


case 21, M= 5.0, shallow, xd= 10 km, HW, 1 Hz, HOR, 6/5/97, Rev 1

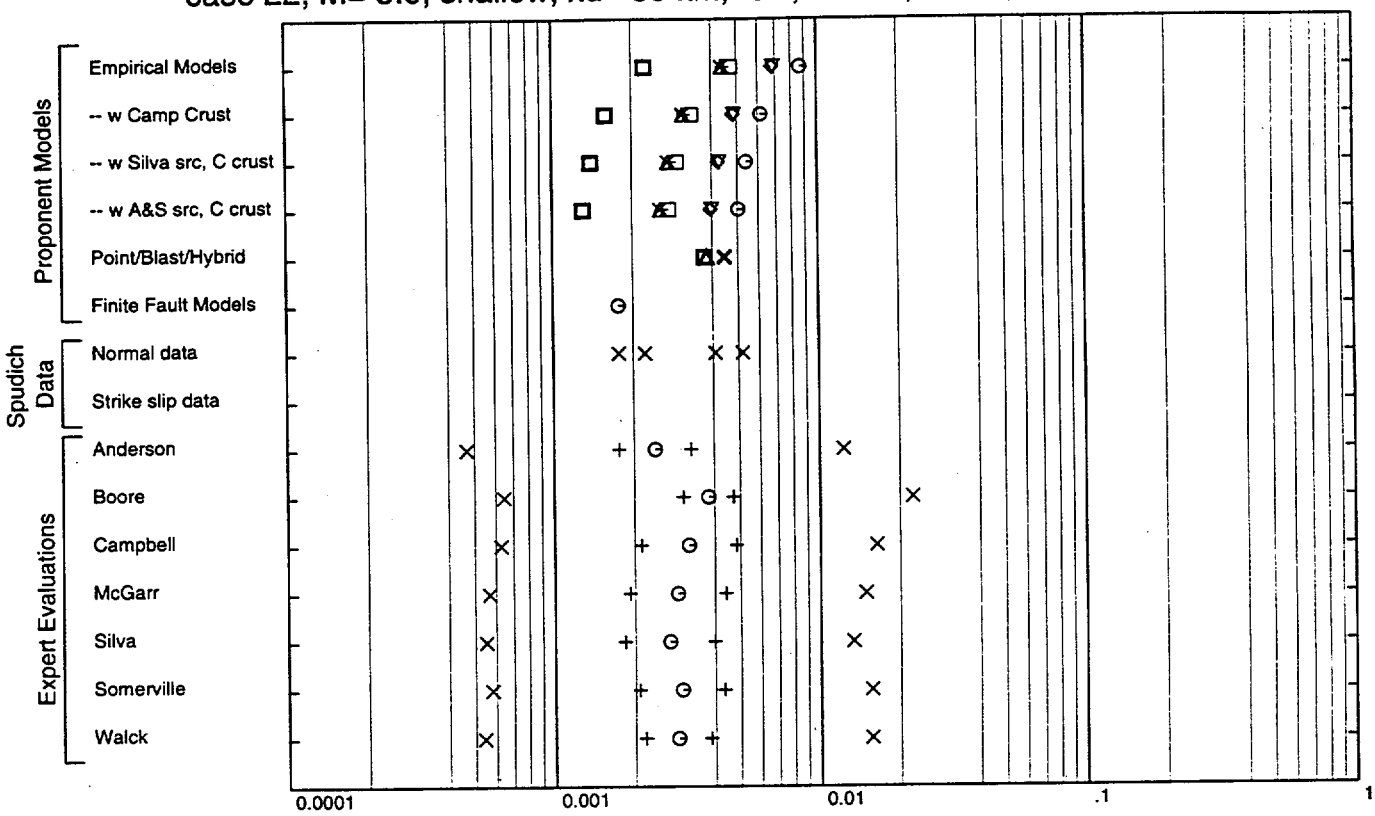


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



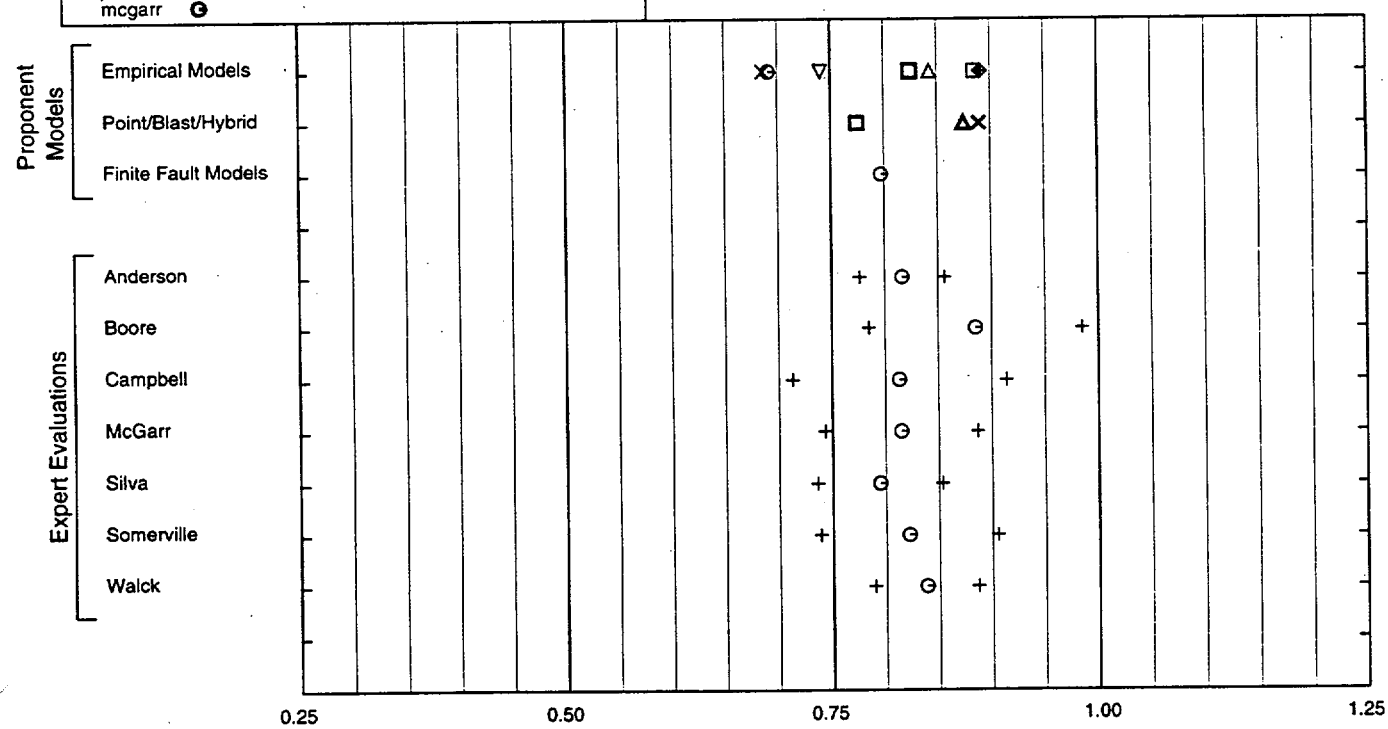
case 22, M= 5.0, shallow, xd= 50 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

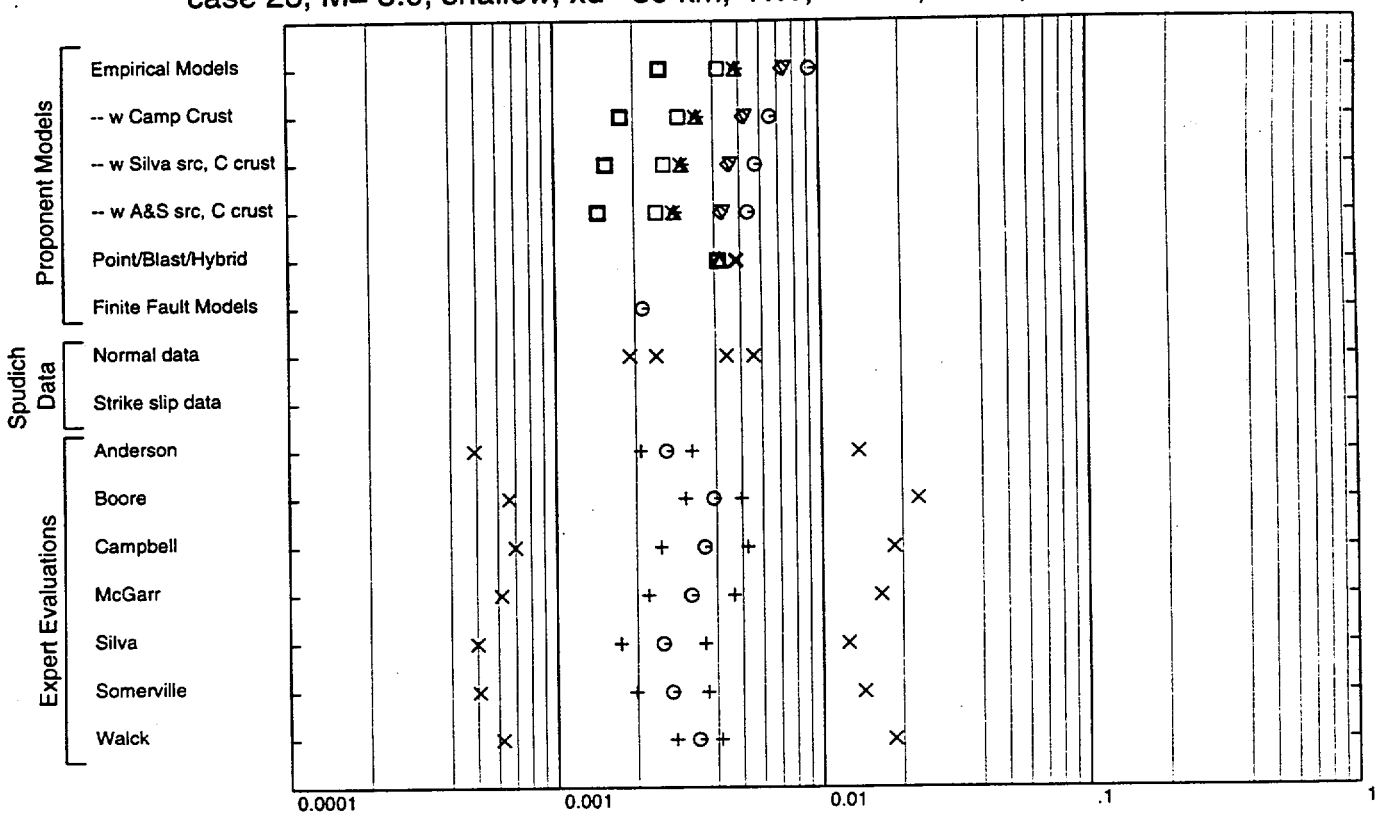
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

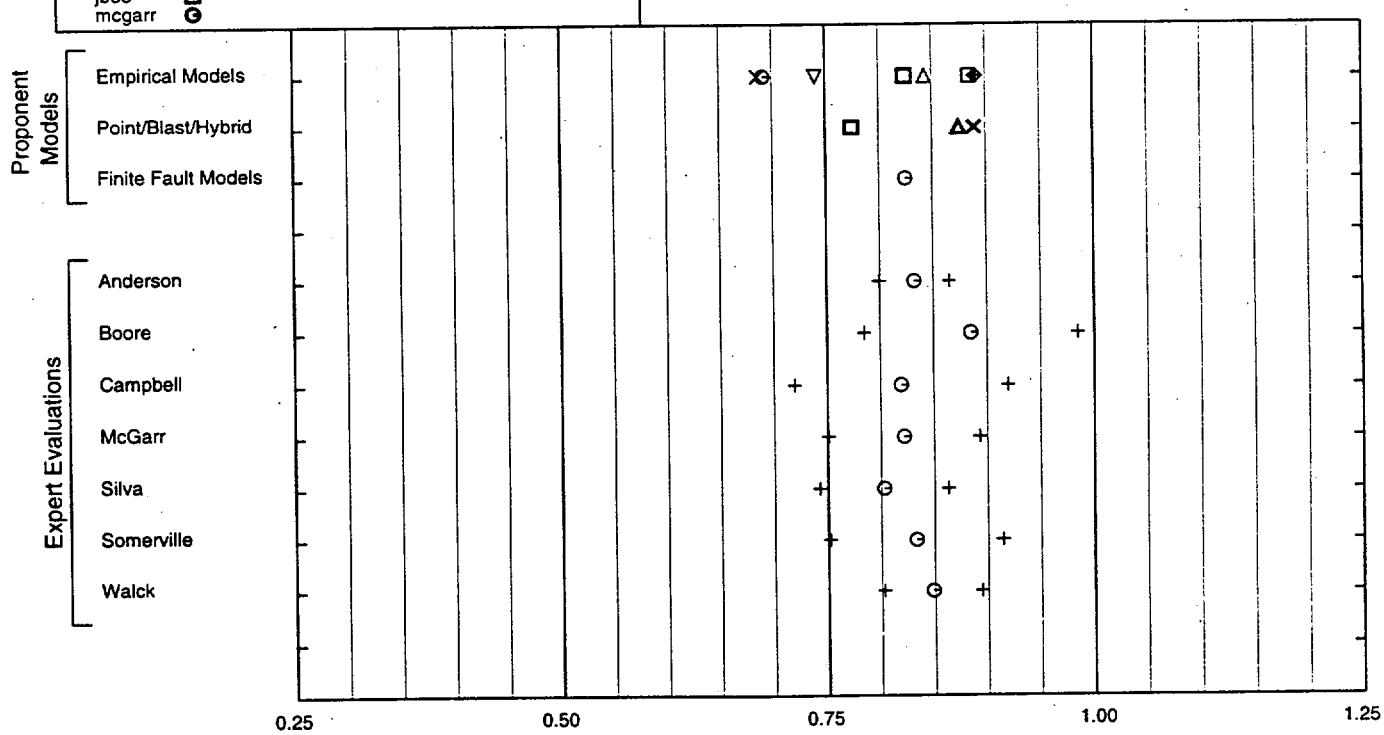
case 23, M= 5.0, shallow, xd= 50 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

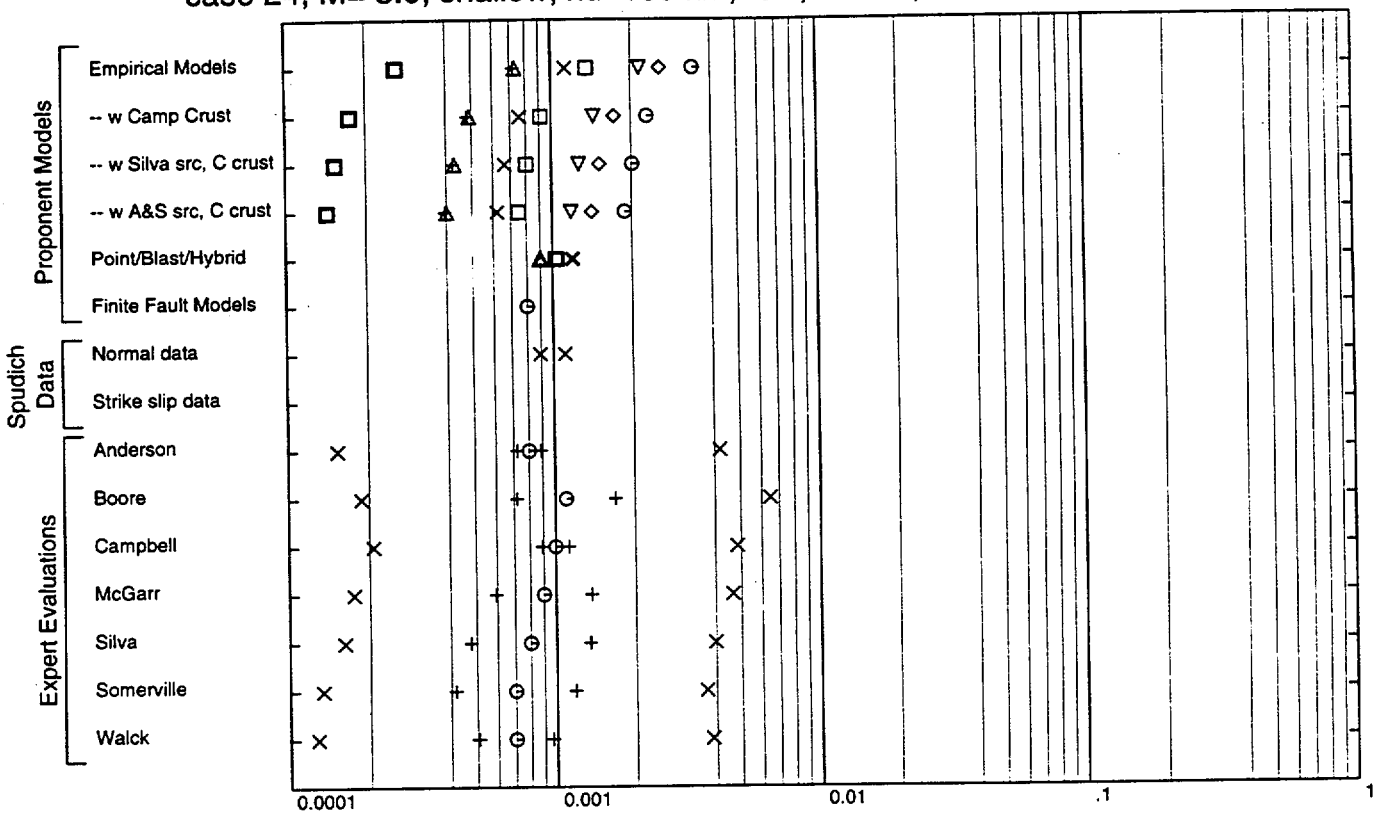
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

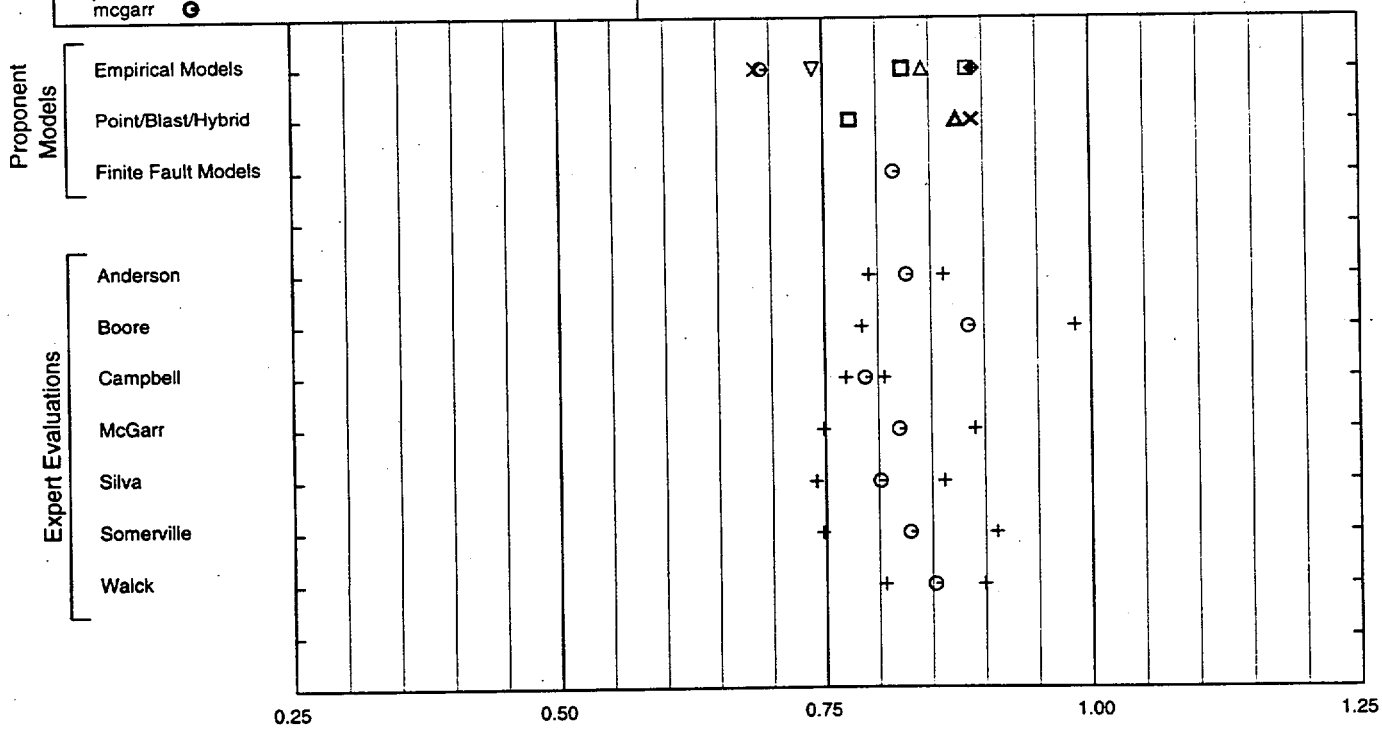
case 24, M= 5.0, shallow, xd=160 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

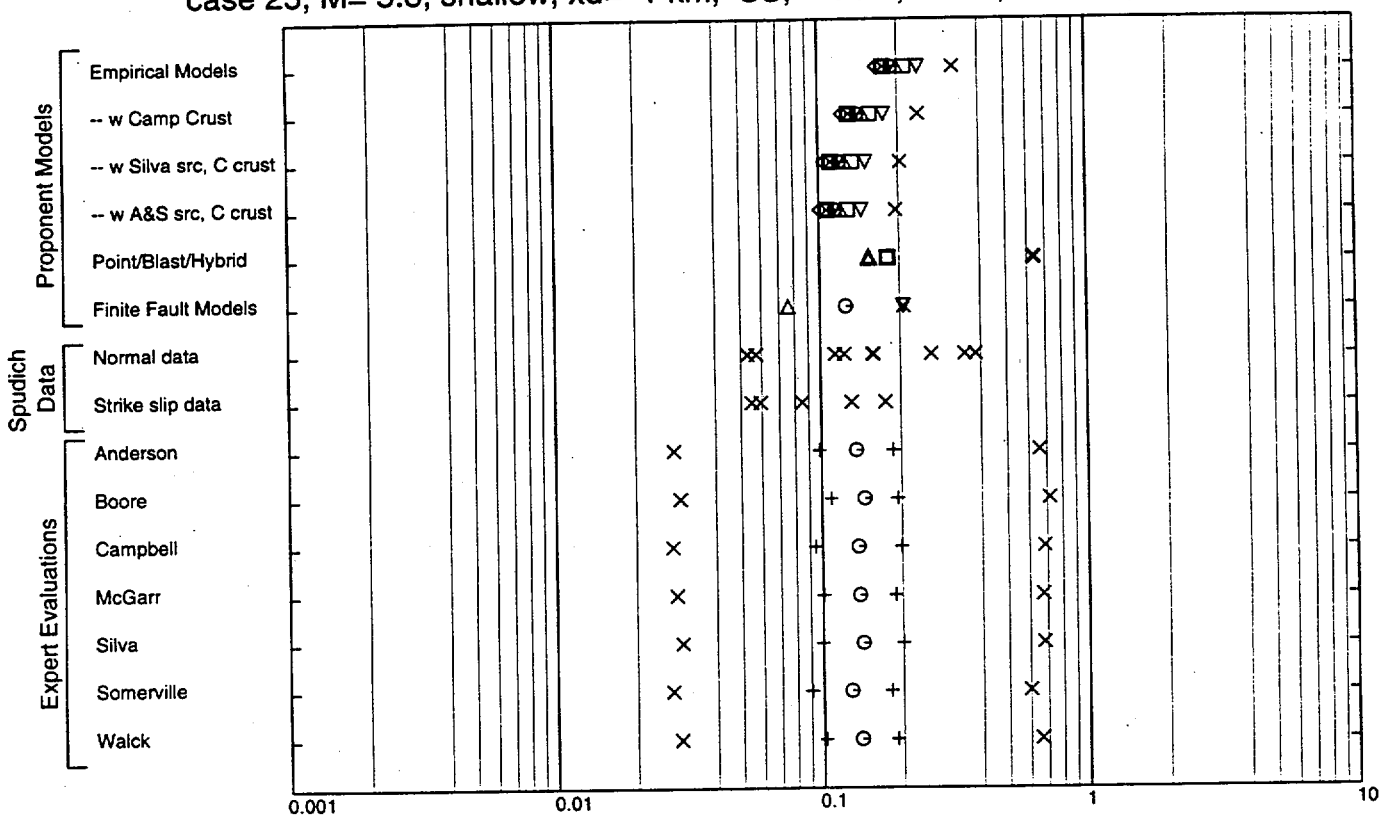
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



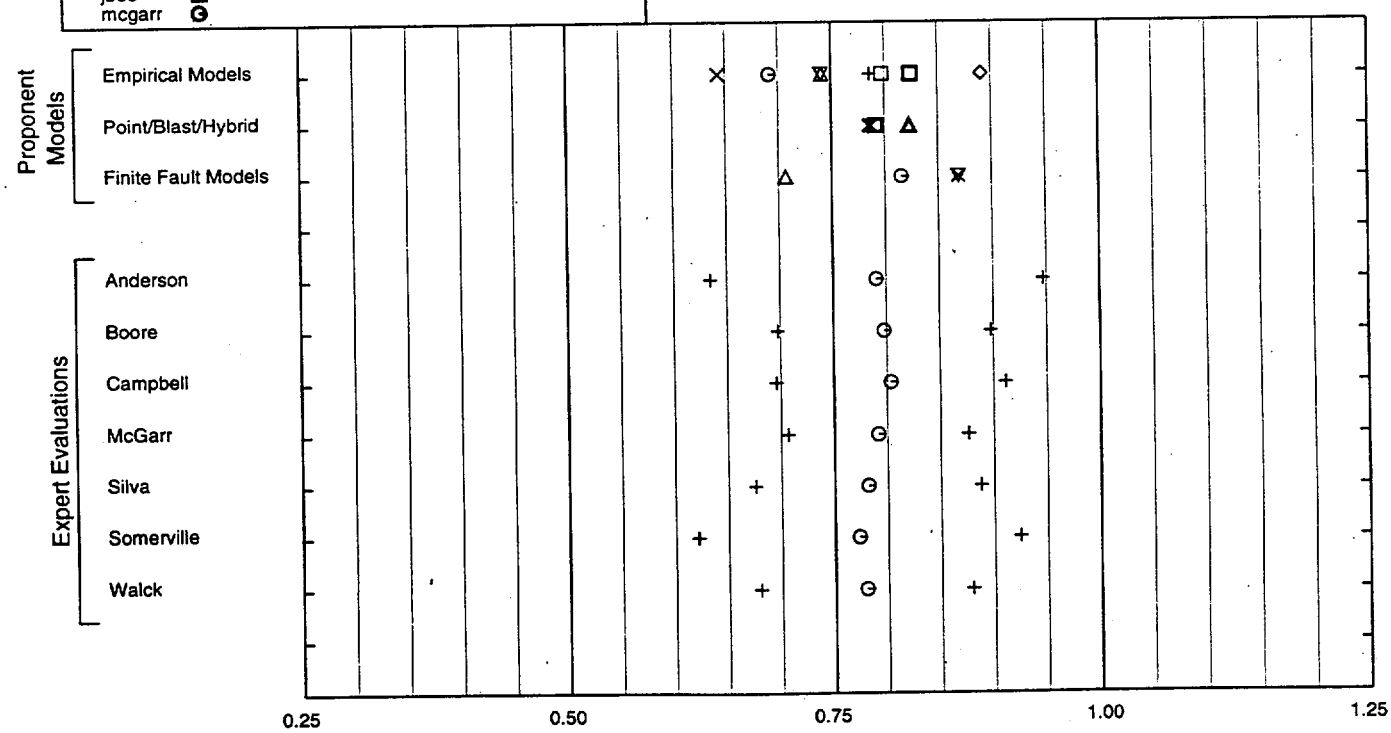
Aleatory Sigma (LN units) w/ Comp Var.

case 25, M= 5.8, shallow, xd= 1 km, SS, 1 Hz, HOR, 6/5/97, Rev 1

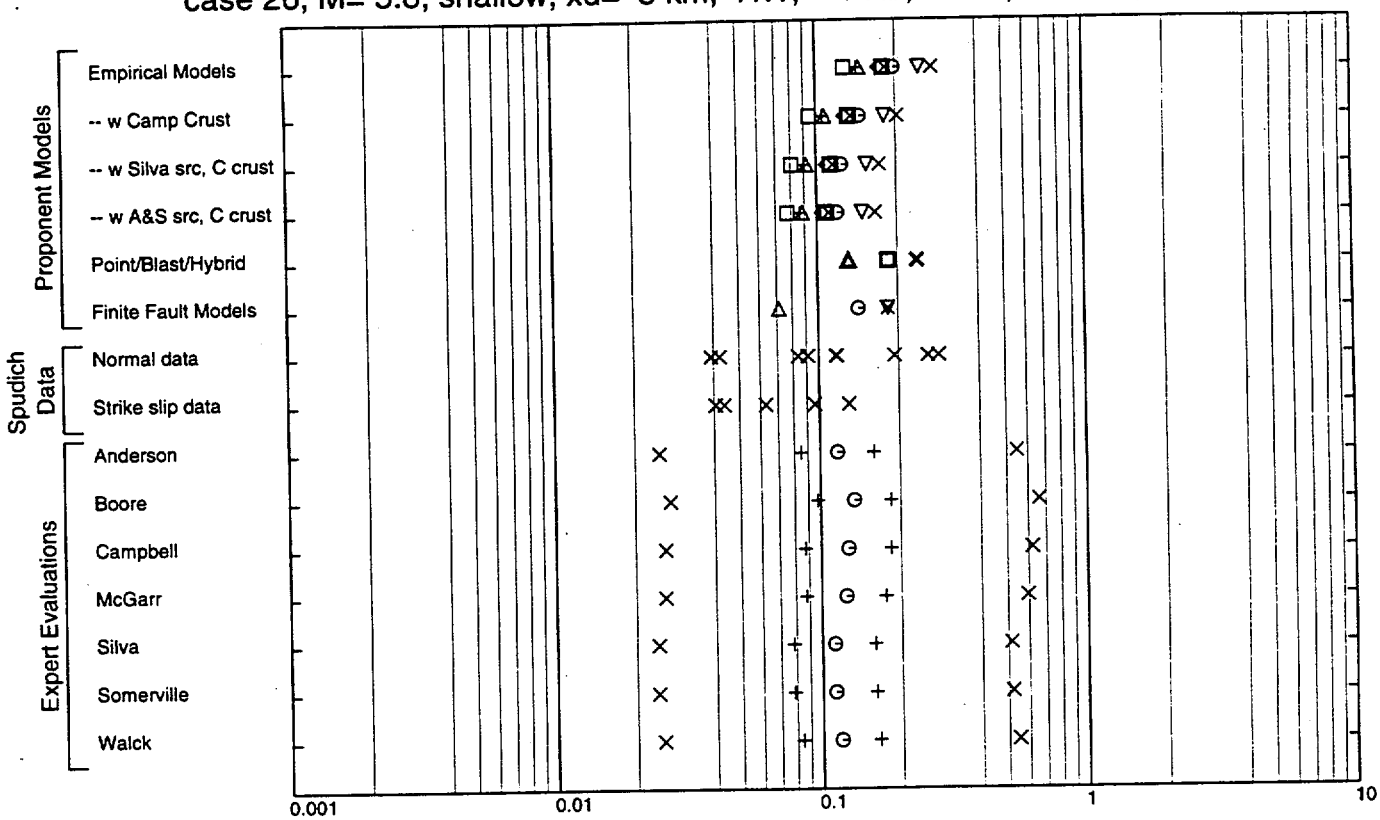


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



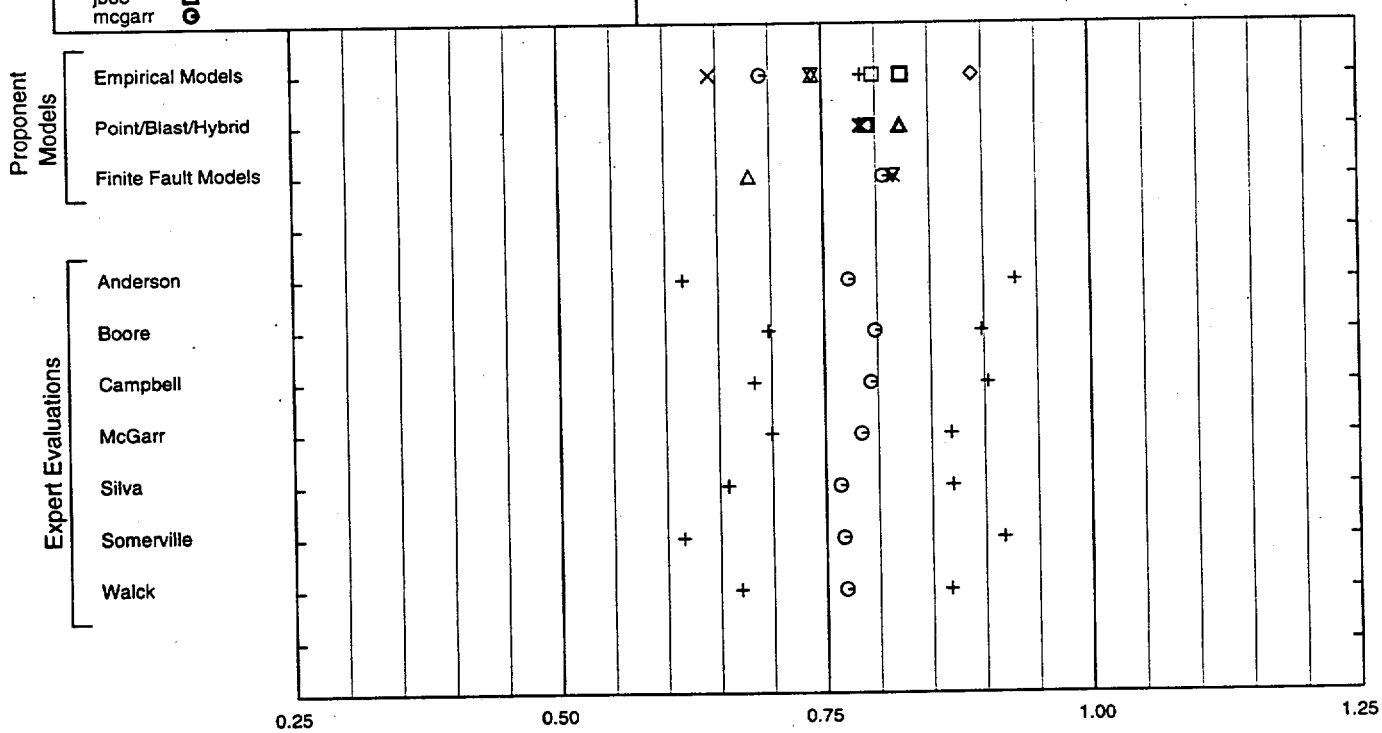
case 26, M= 5.8, shallow, xd= 5 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

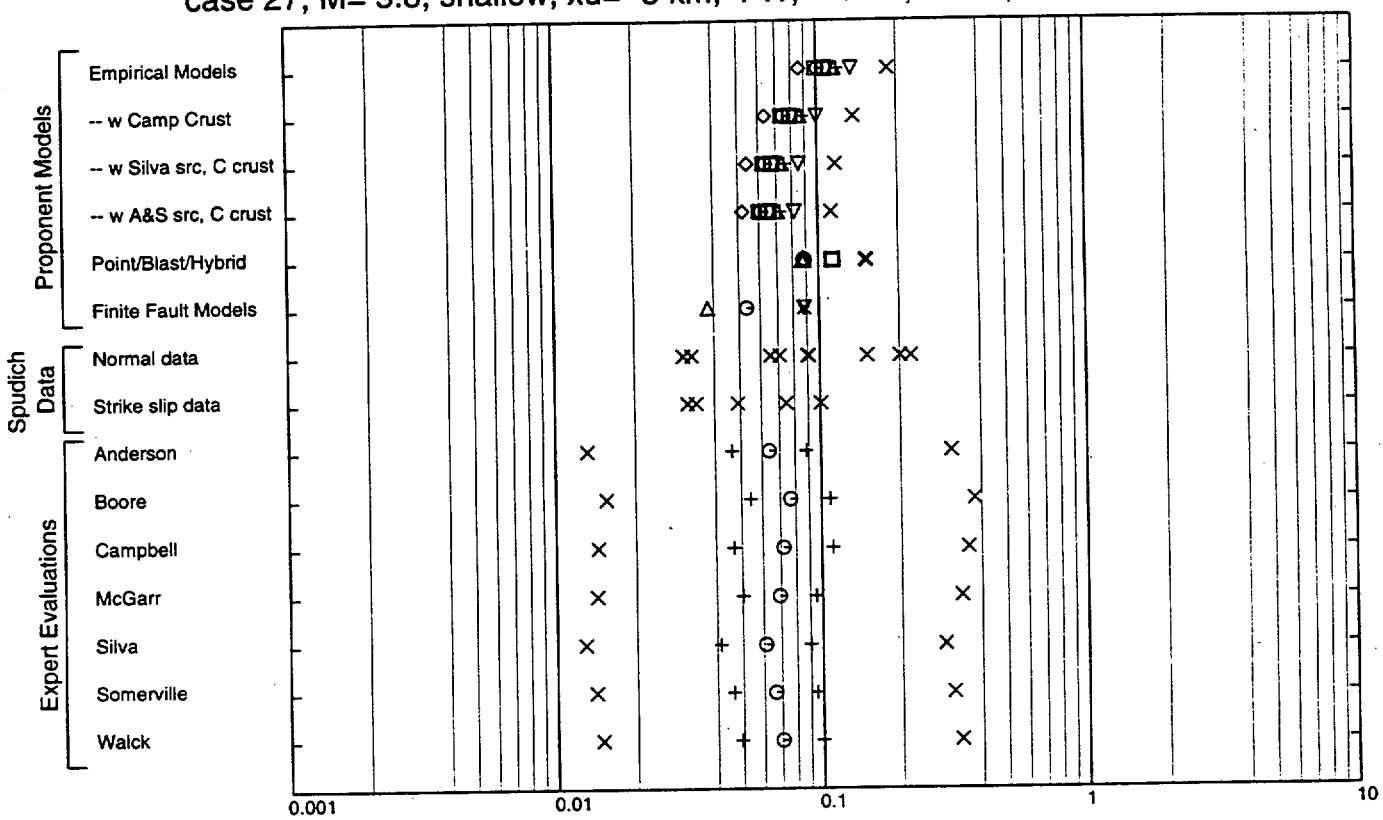
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

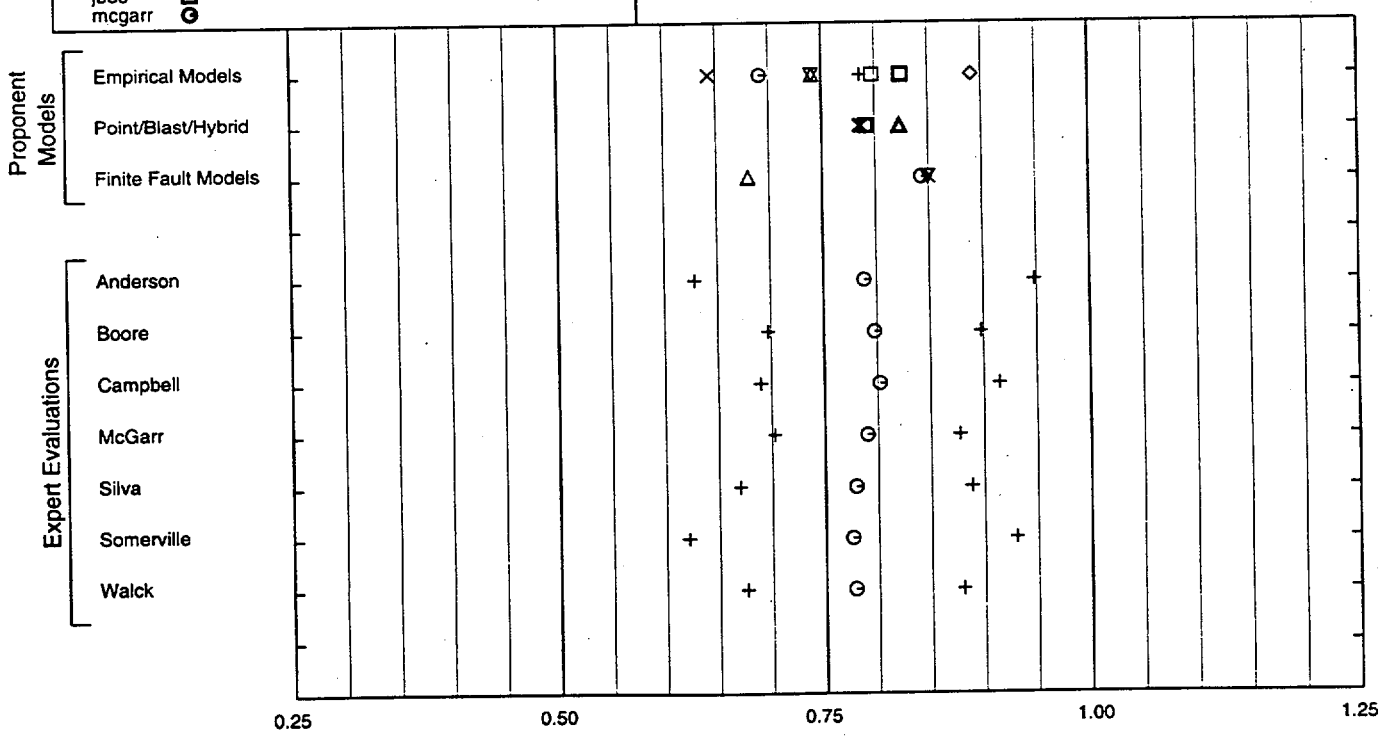
case 27, M= 5.8, shallow, xd= -5 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

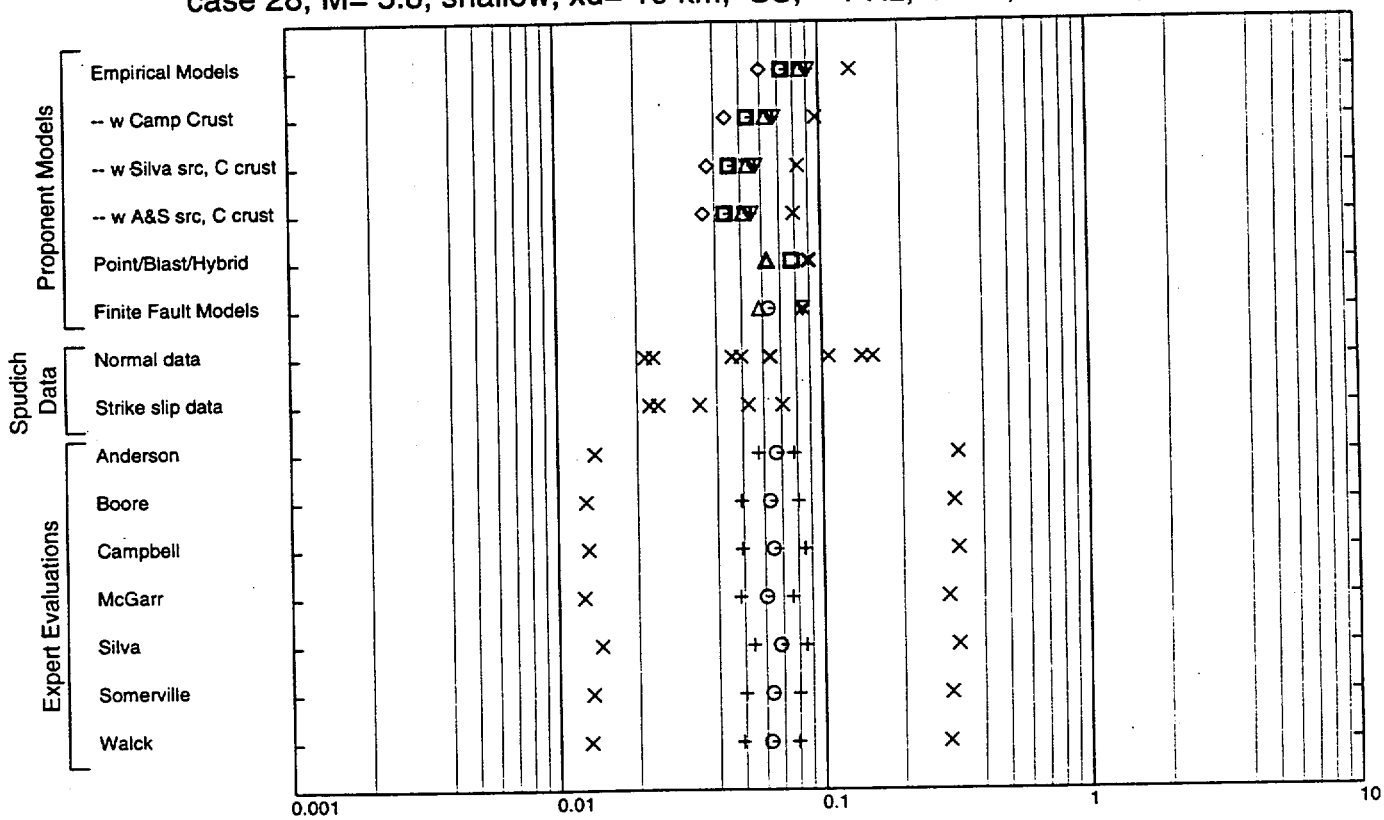
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

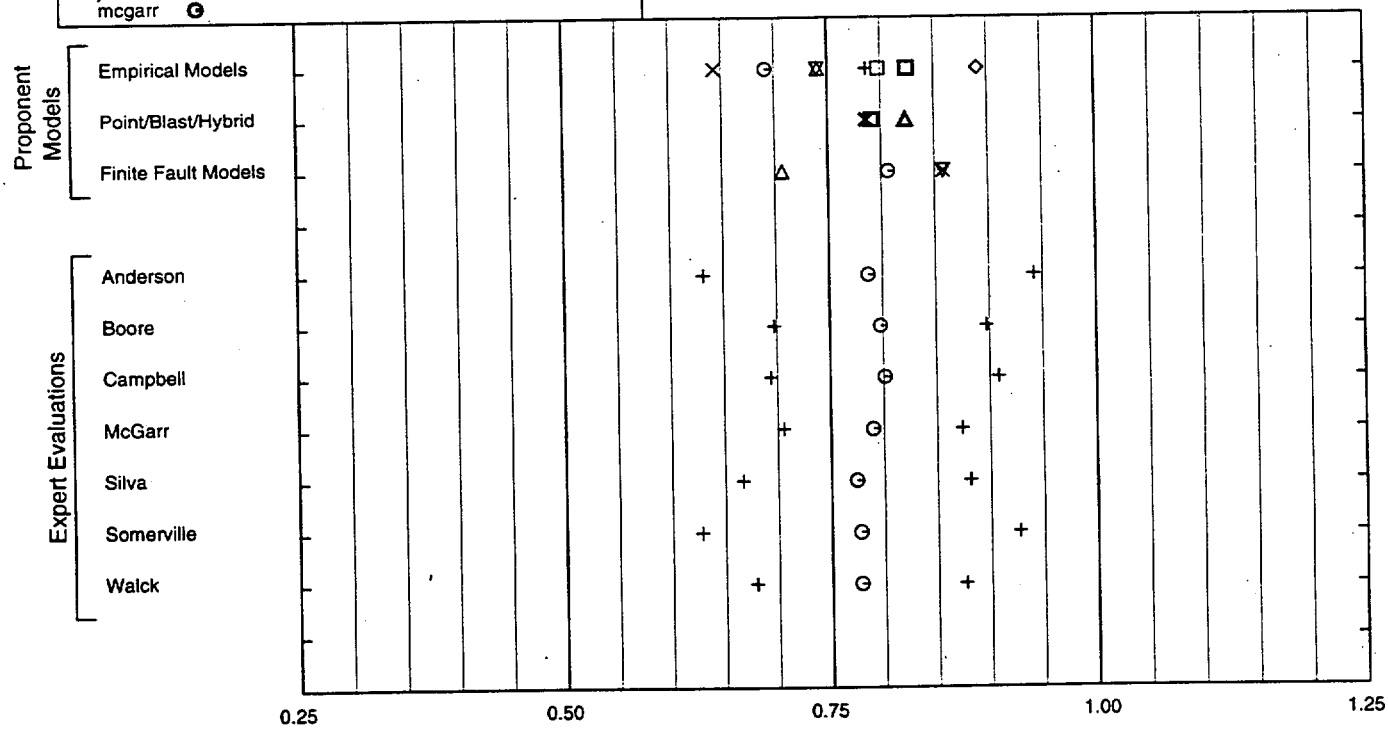
case 28, M= 5.8, shallow, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

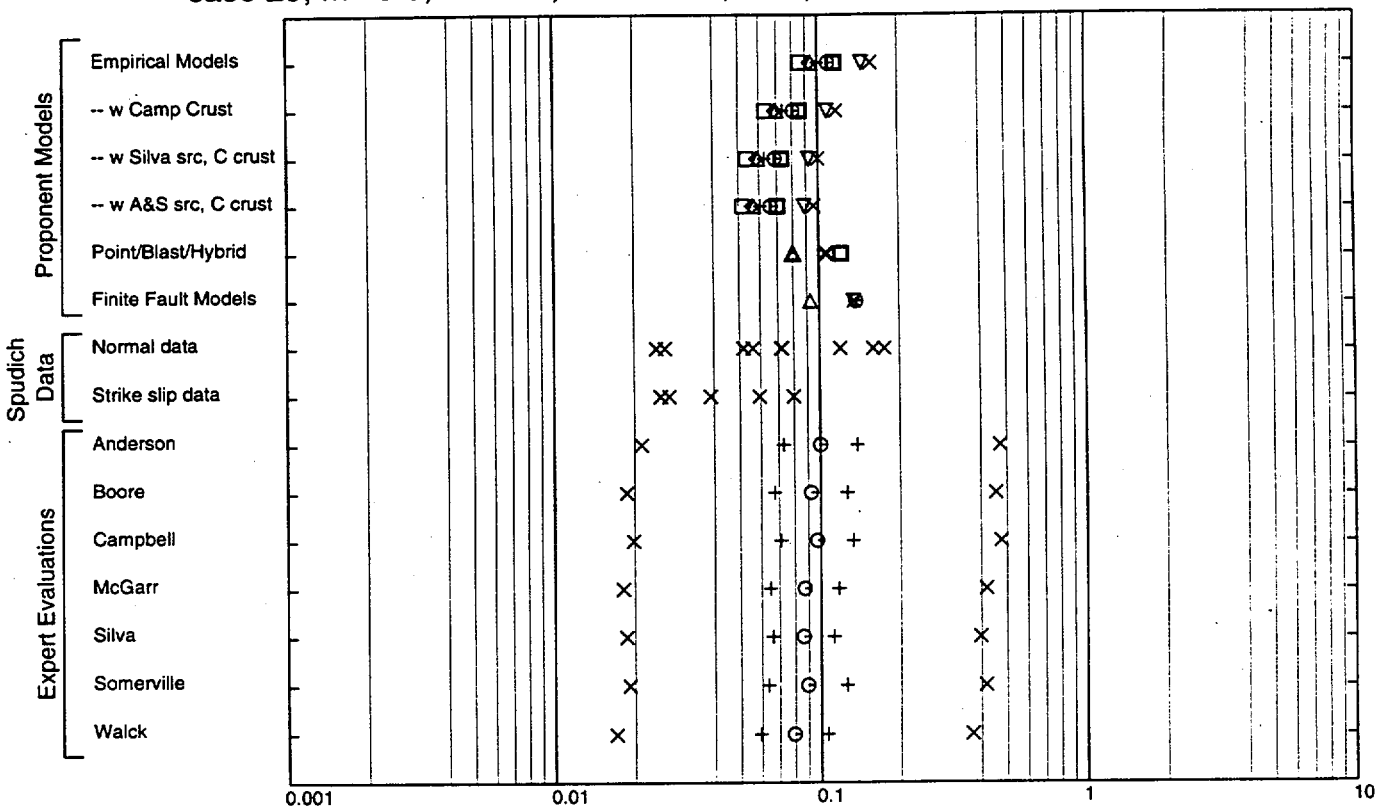
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

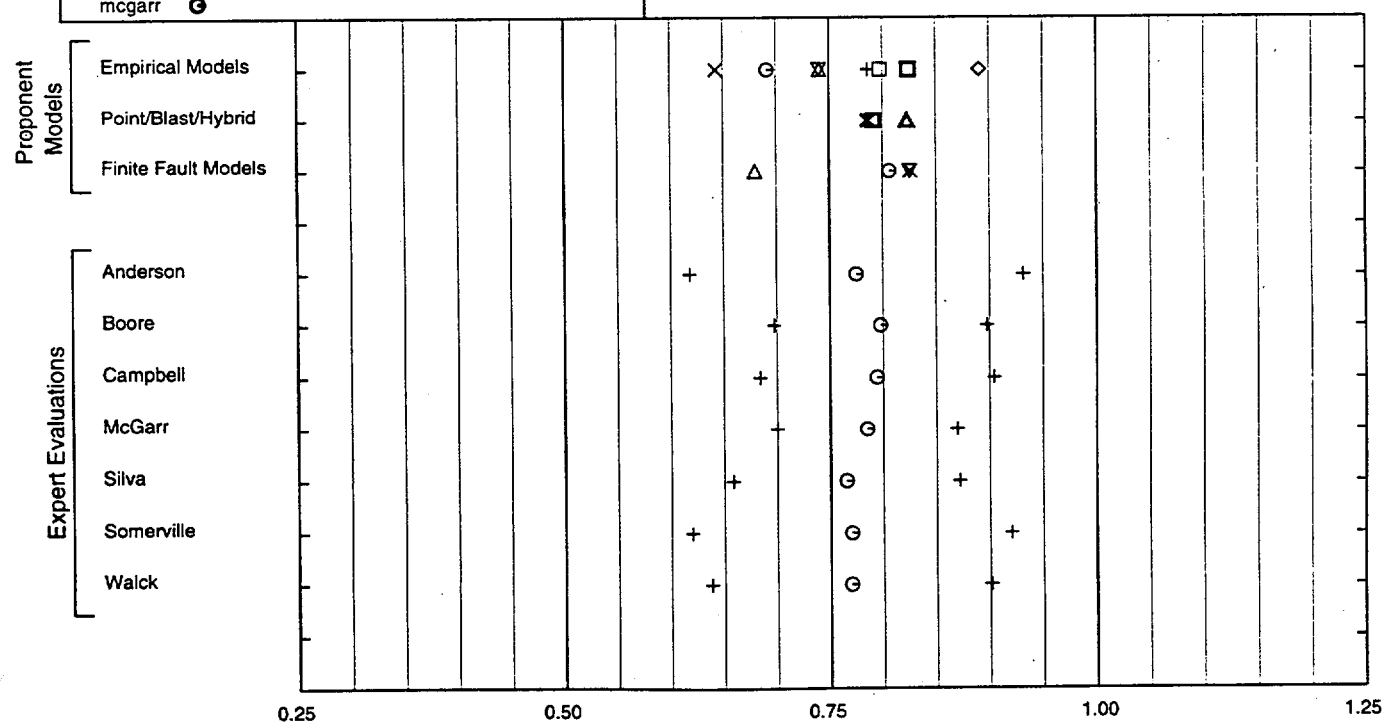
case 29, M= 5.8, shallow, xd= 10 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

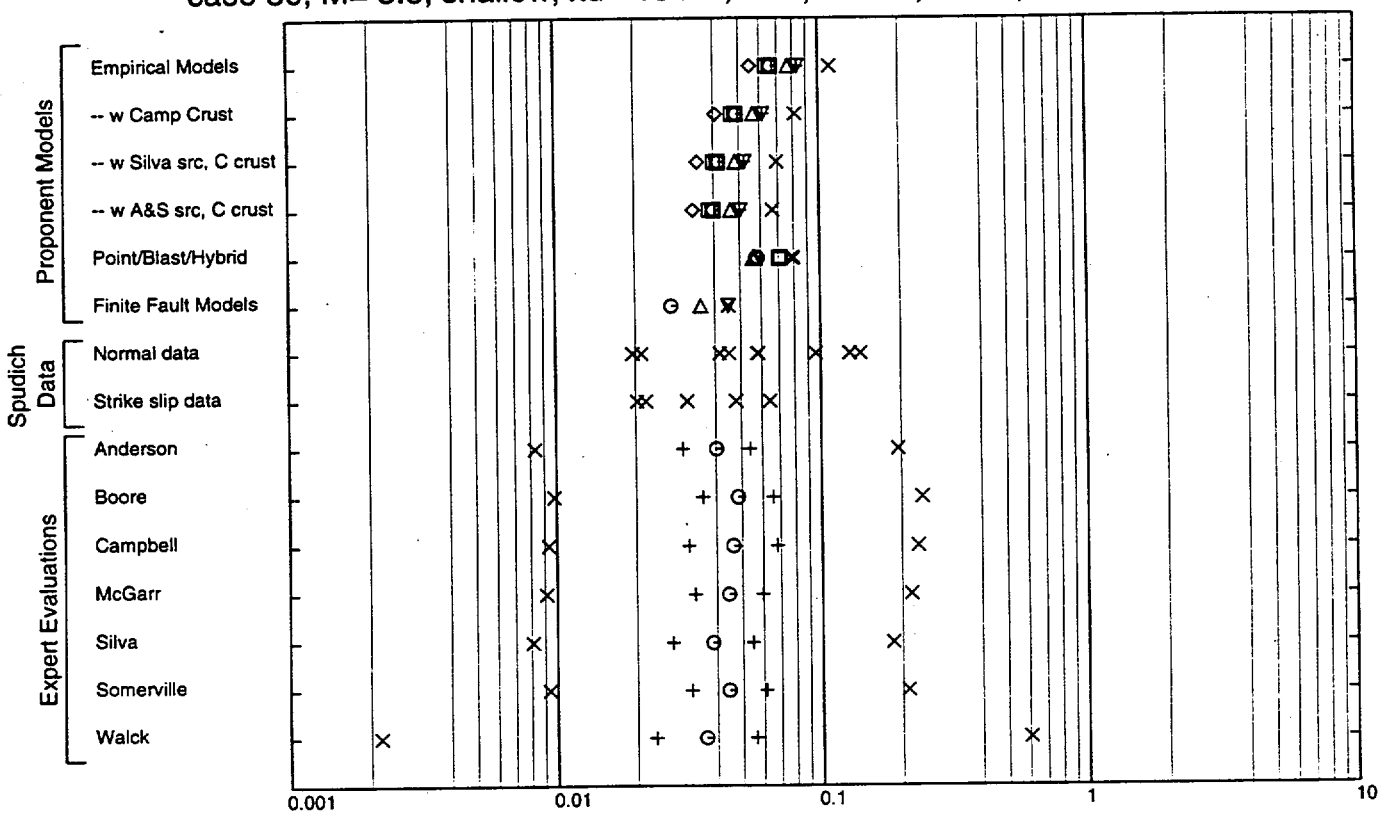
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

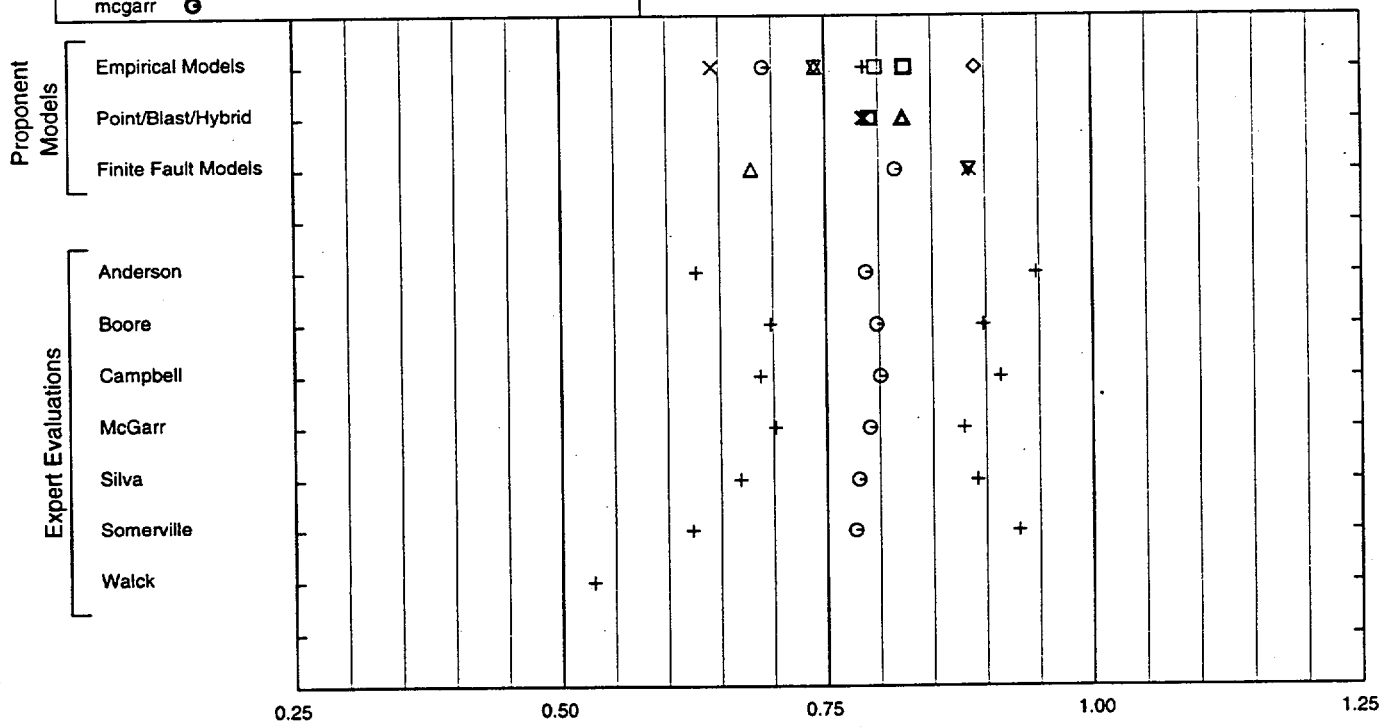
case 30, M= 5.8, shallow, xd=-10 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



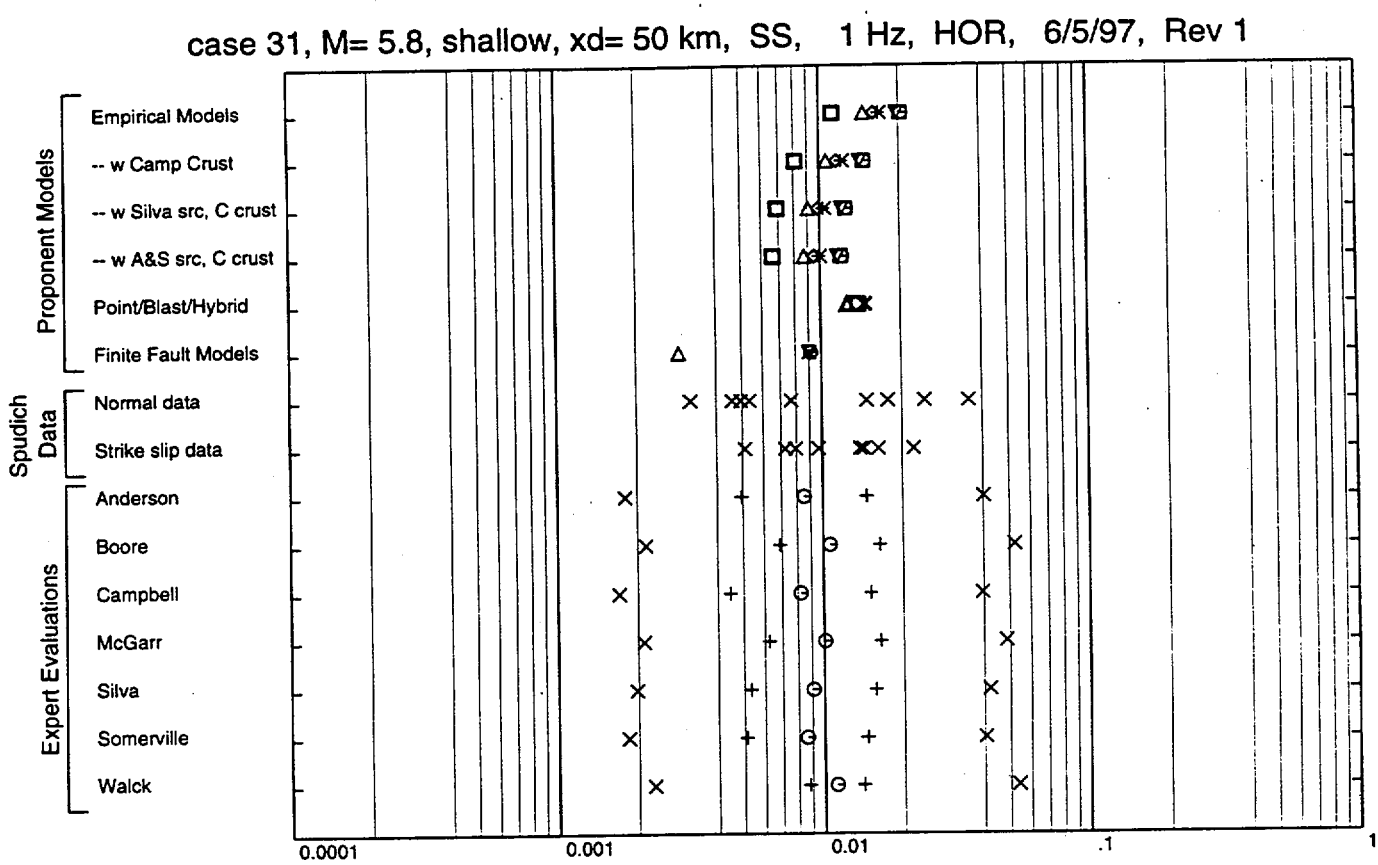
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

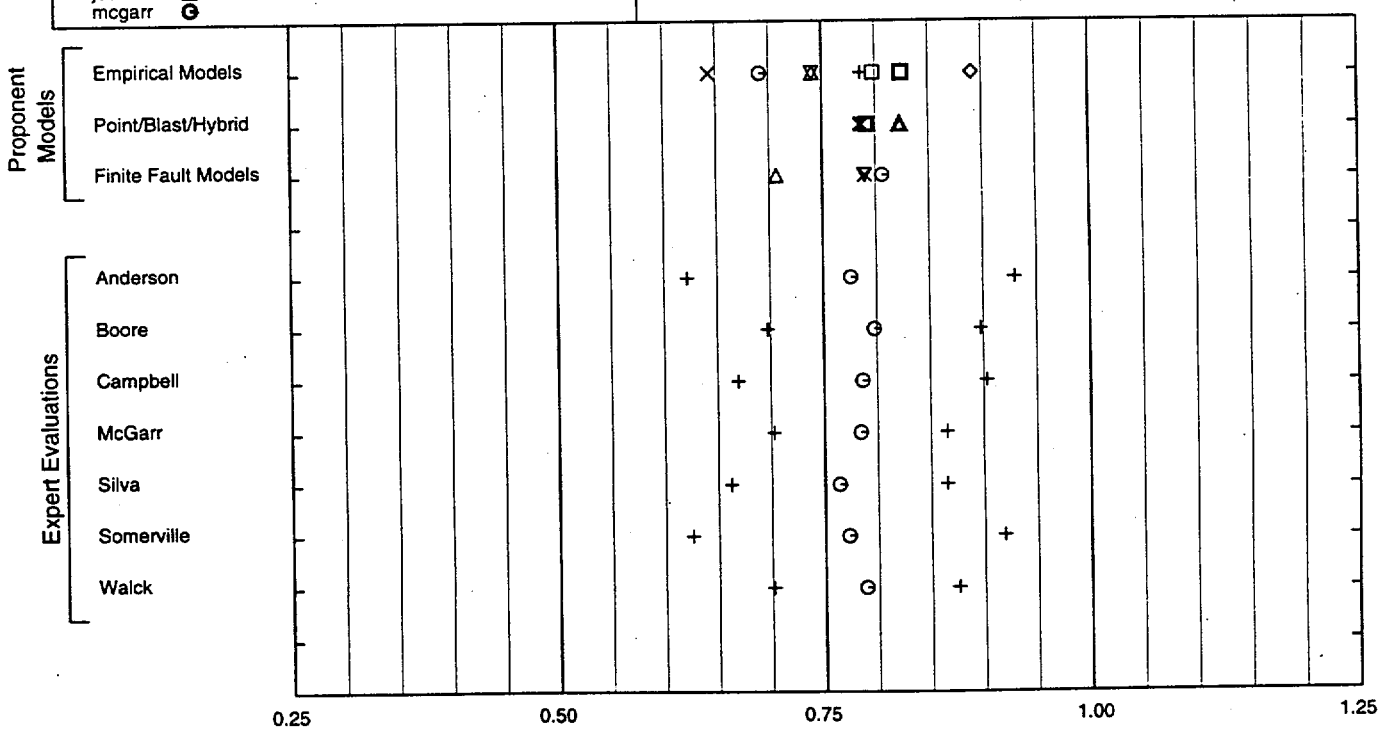


Aleatory Sigma (LN units) w/ Comp Var.

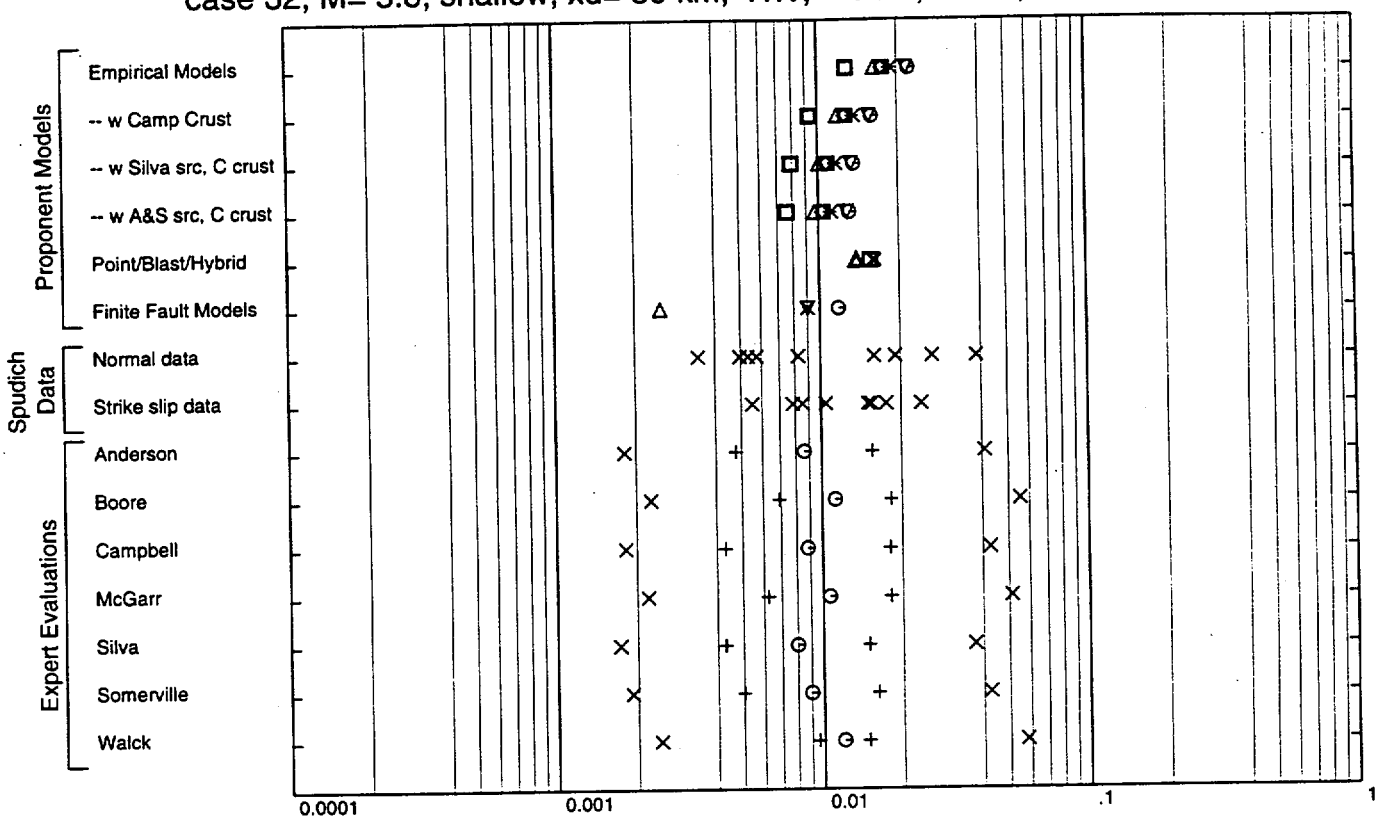


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



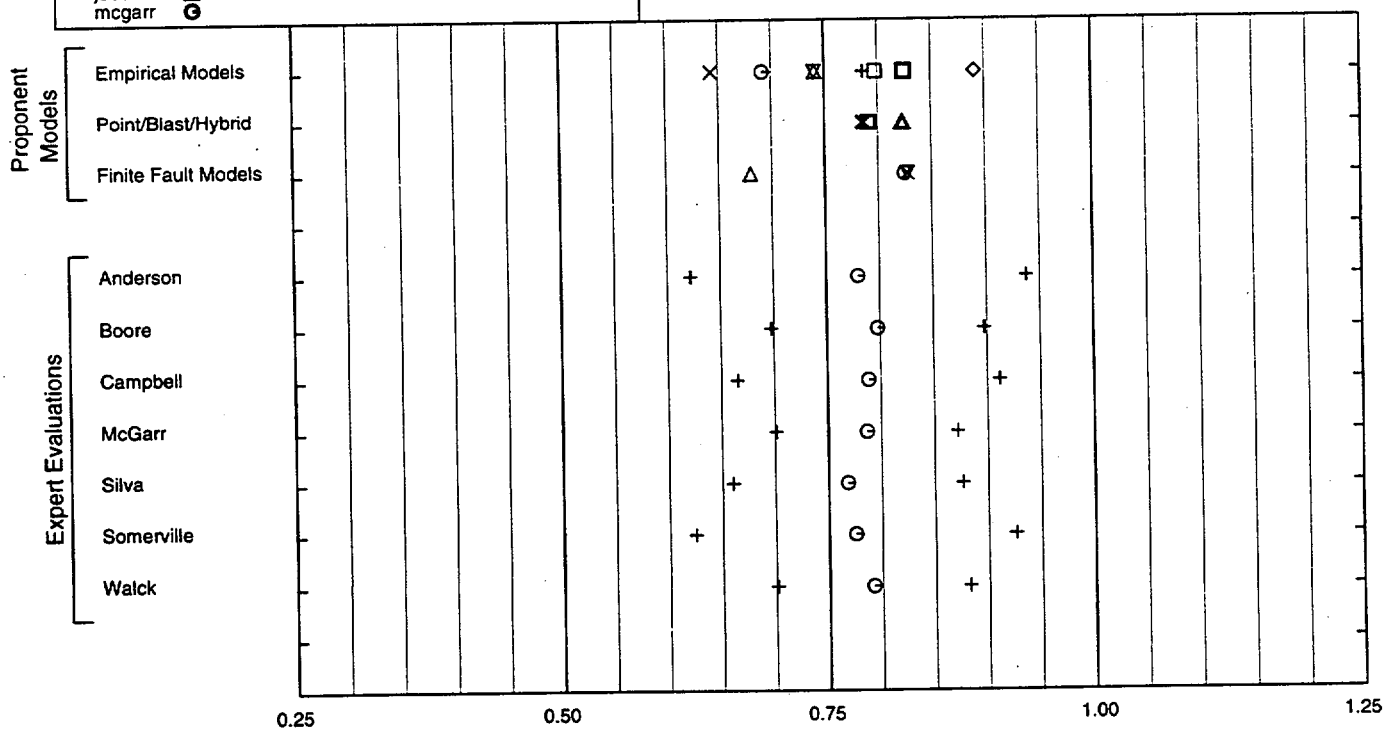
case 32, M= 5.8, shallow, xd= 50 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

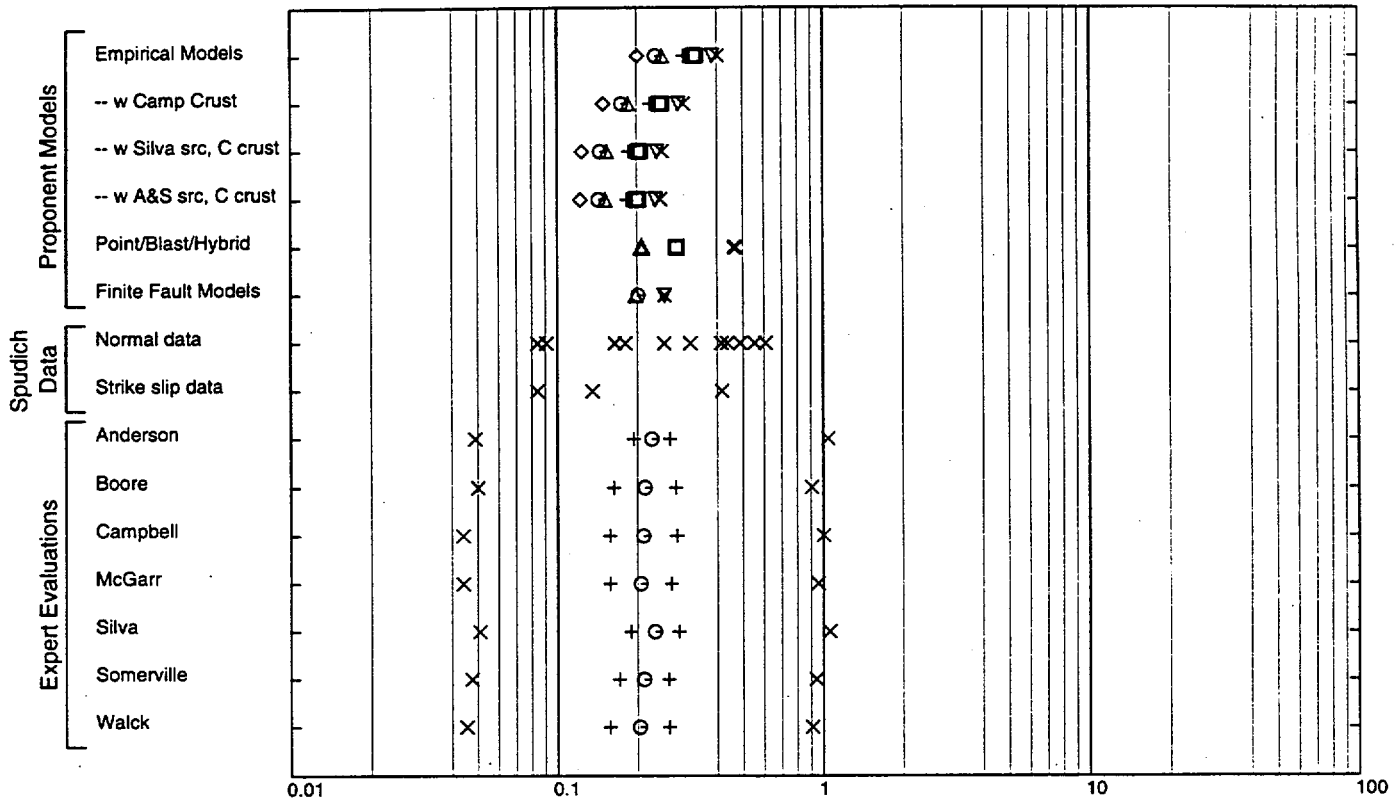
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

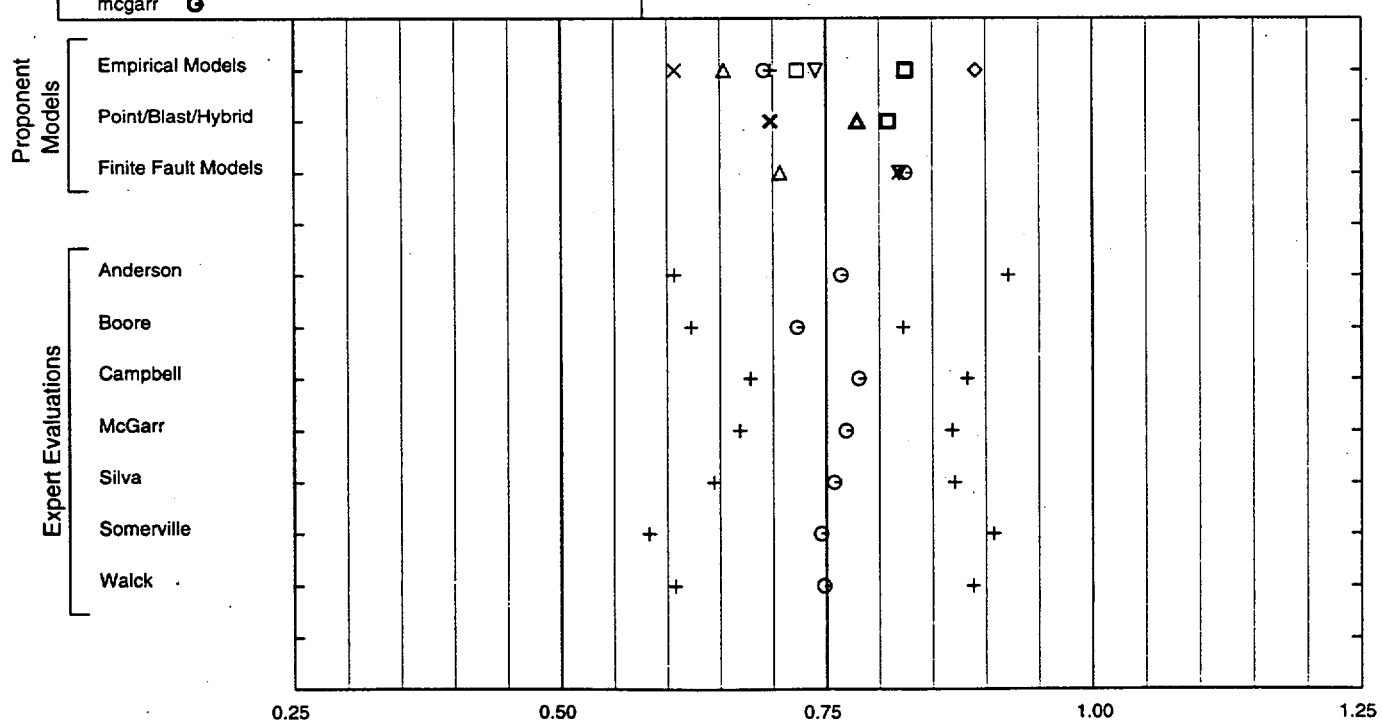
case 33, M= 6.5, shallow, xd= 5 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

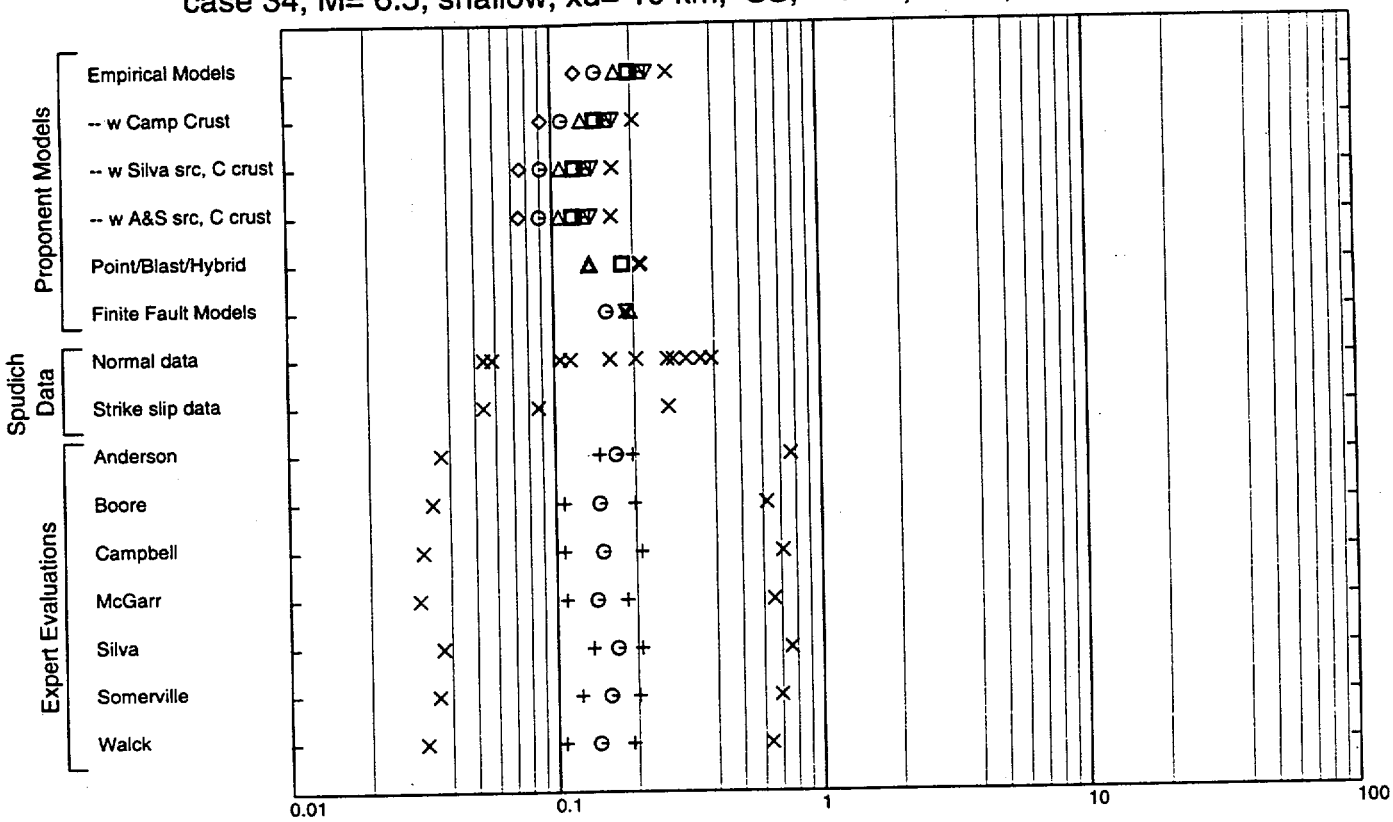
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

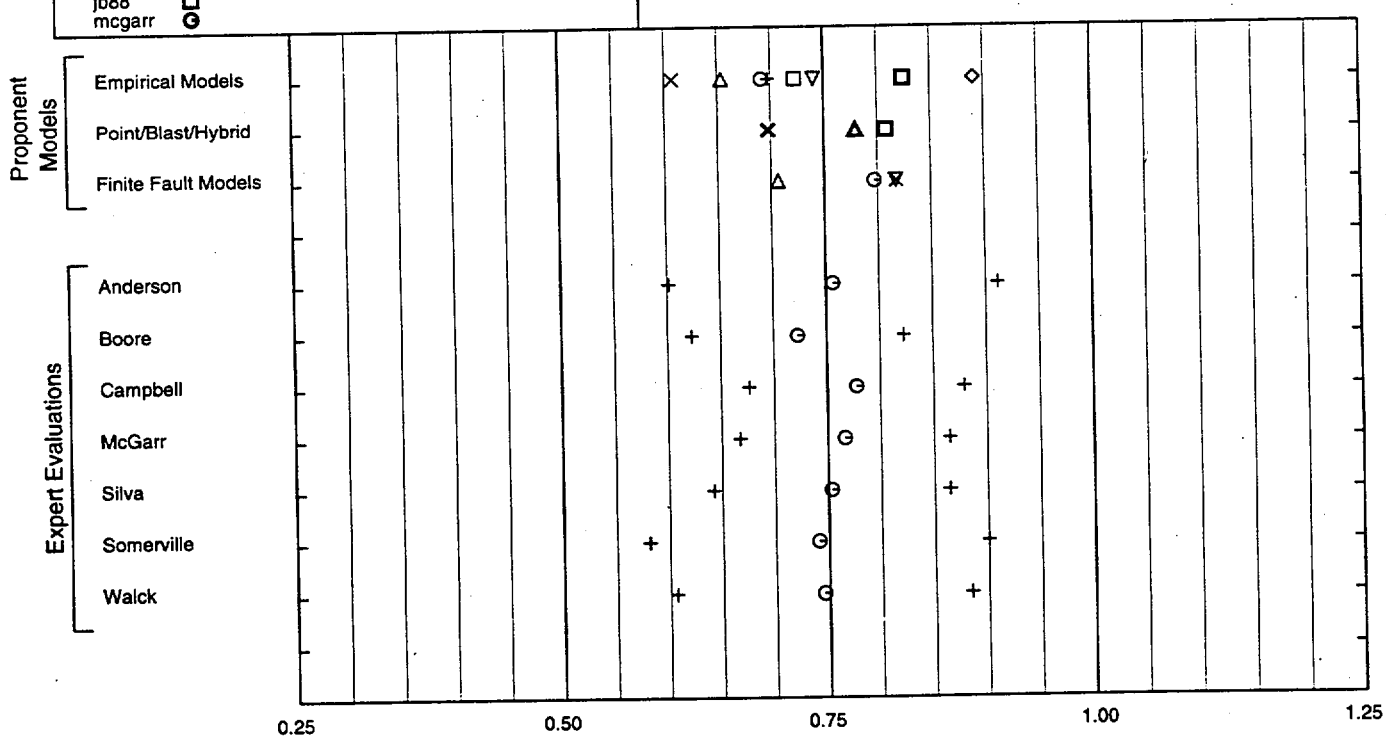
case 34, M= 6.5, shallow, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

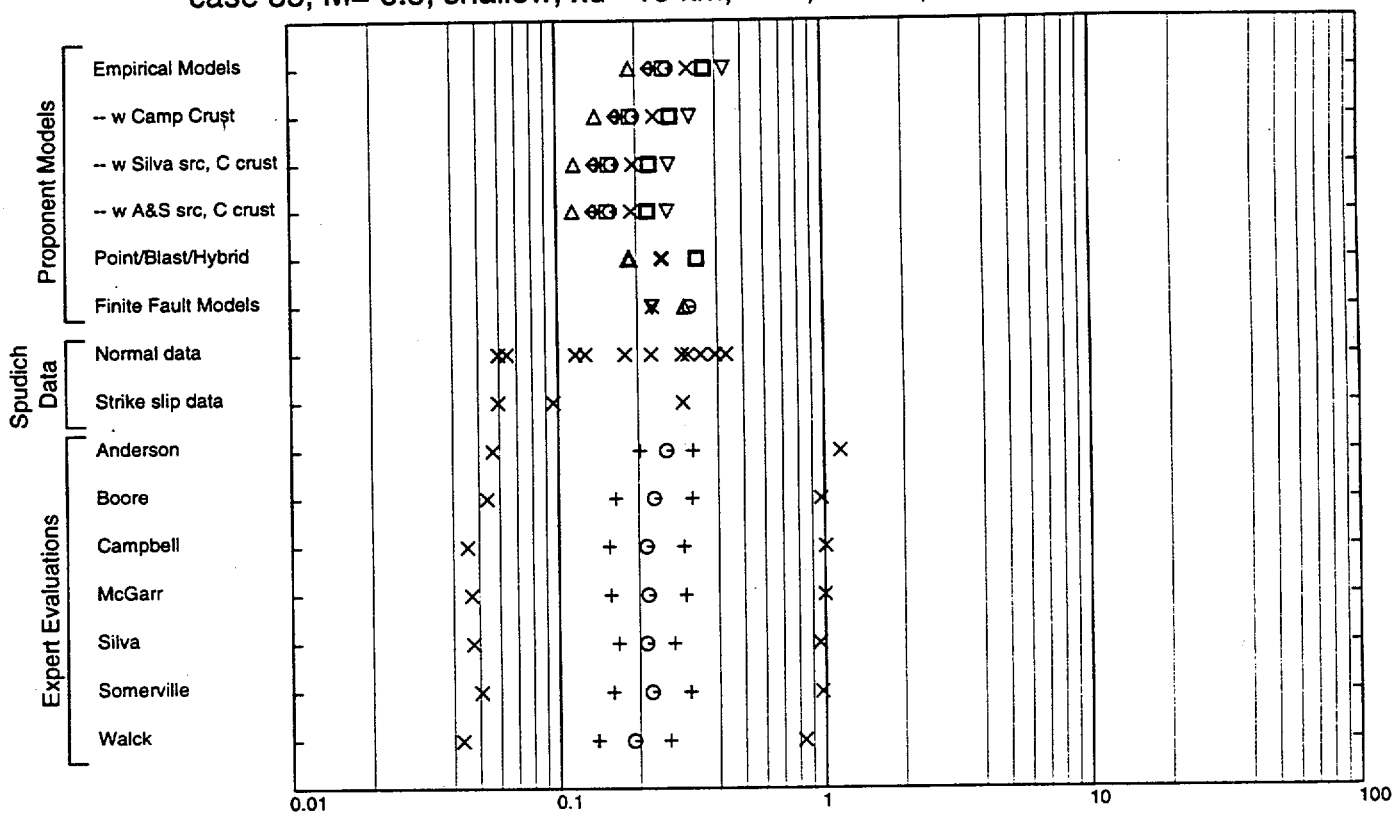
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

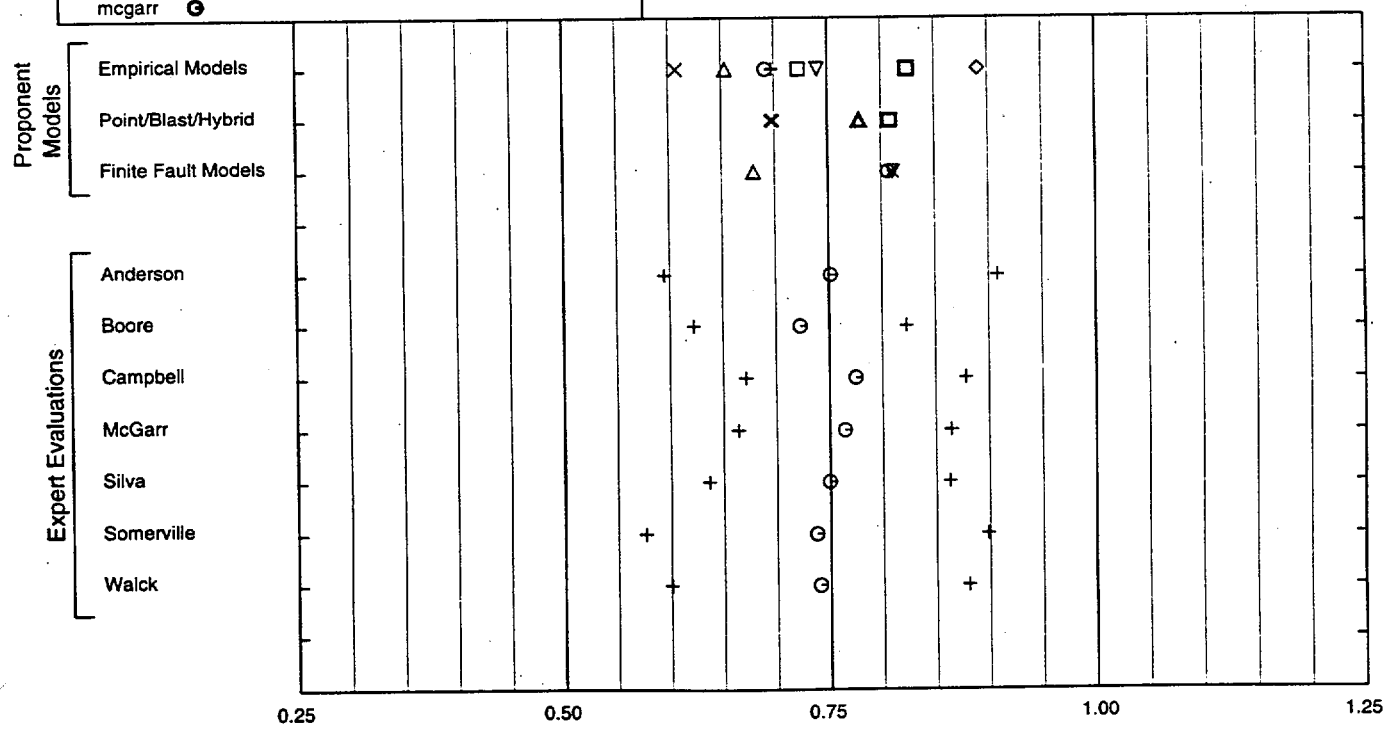
case 35, M= 6.5, shallow, xd= 10 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

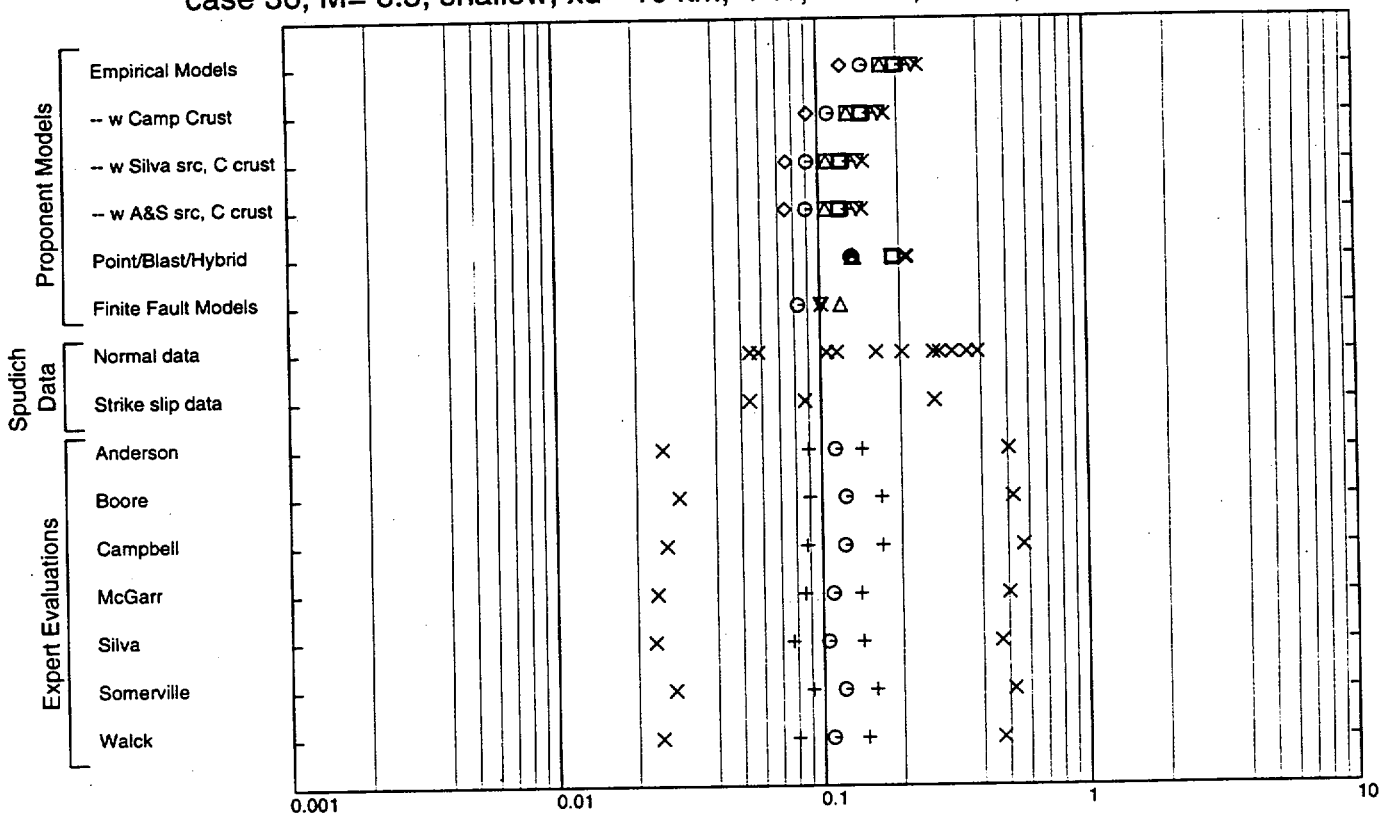
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

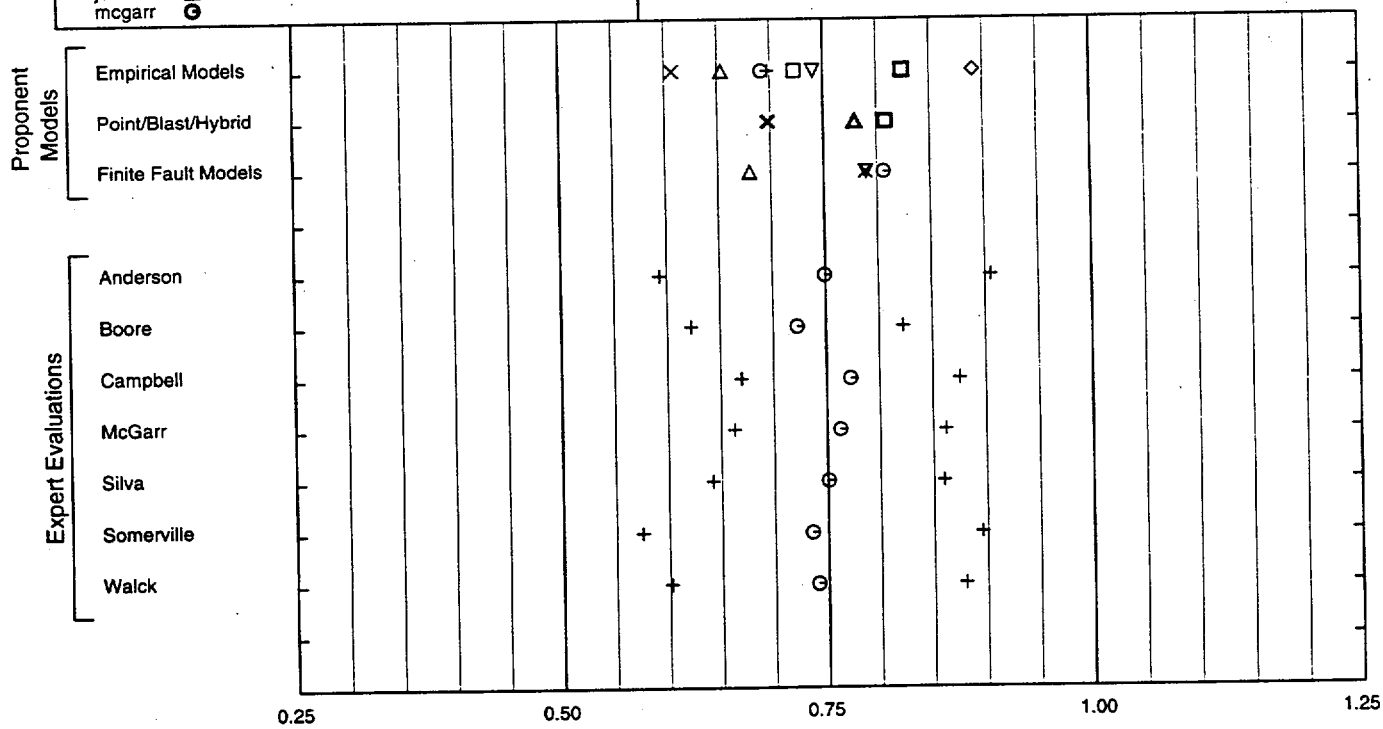
case 36, M= 6.5, shallow, xd=-10 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

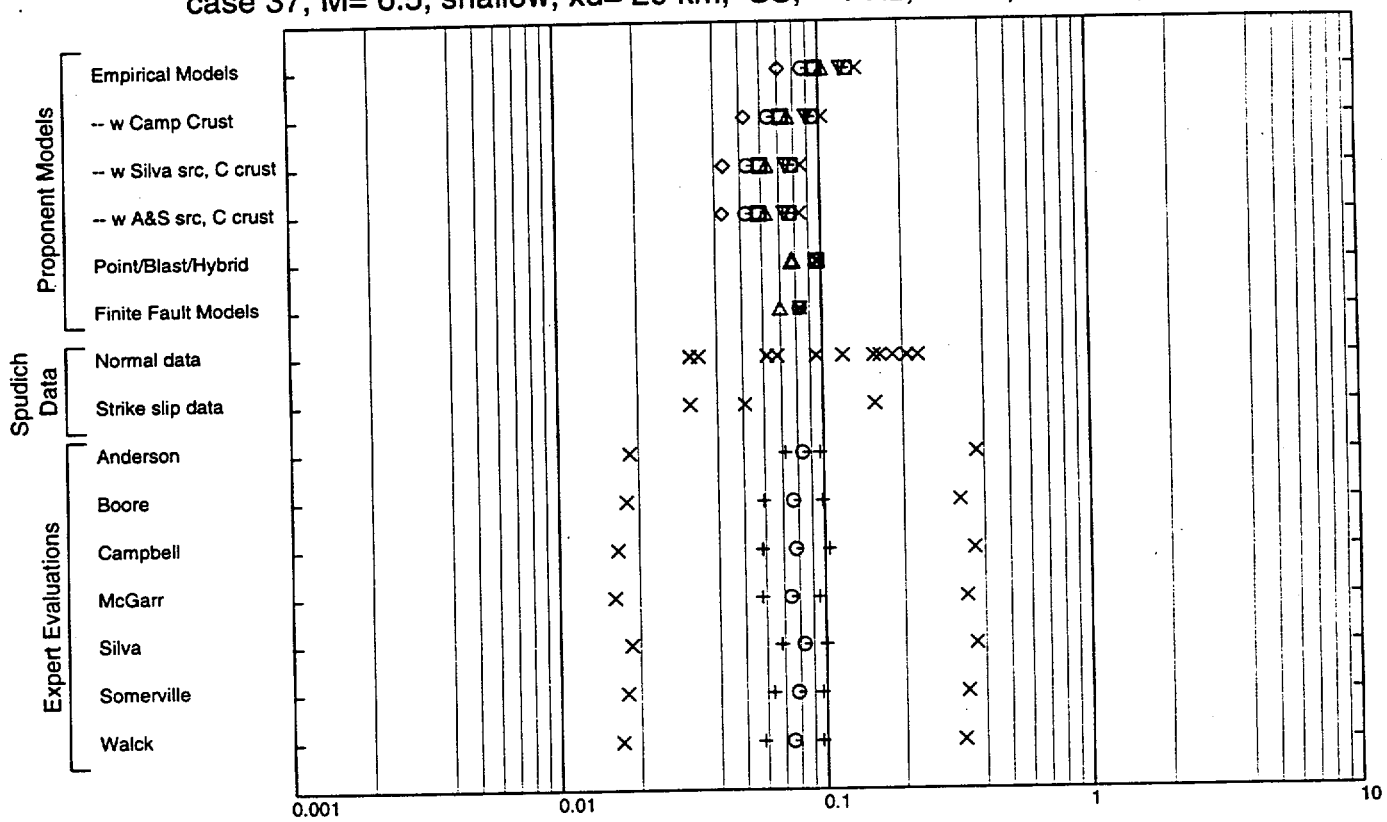
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



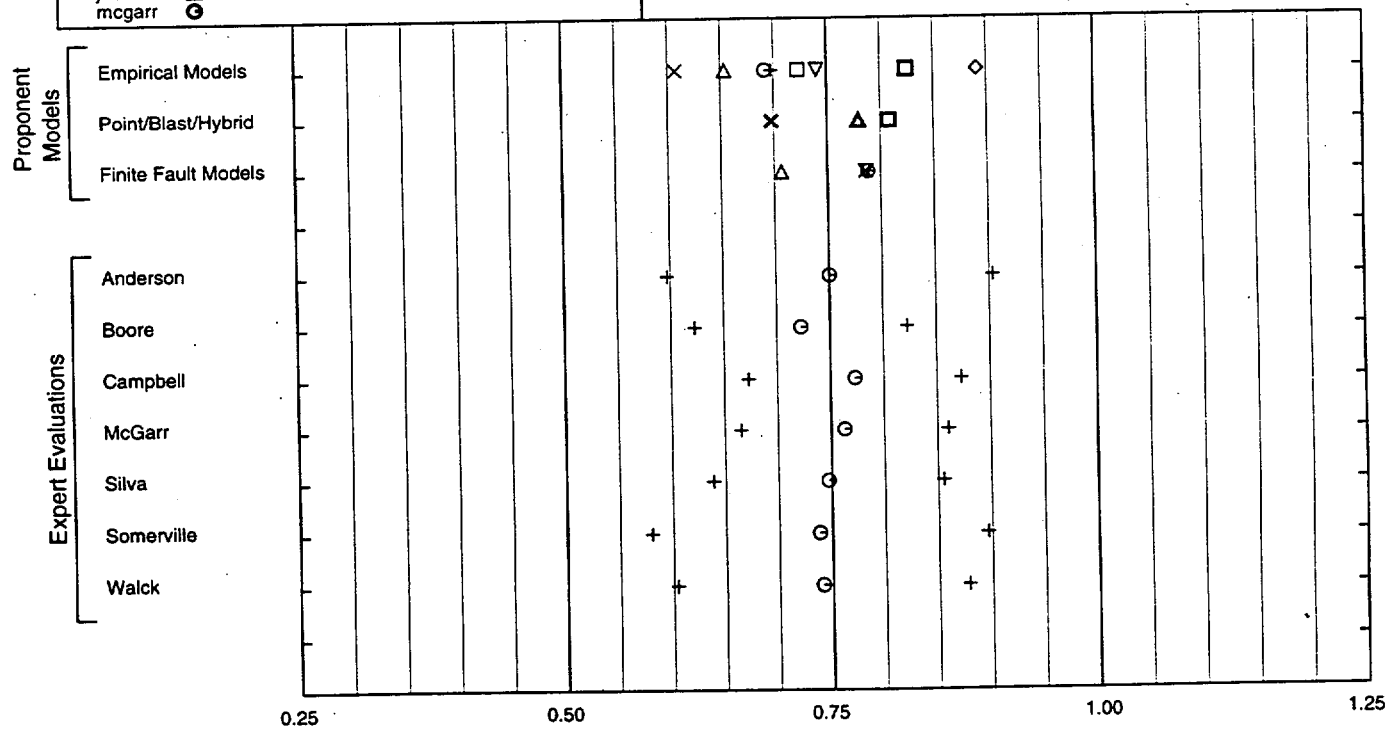
Aleatory Sigma (LN units) w/ Comp Var.

case 37, M= 6.5, shallow, xd= 20 km, SS, 1 Hz, HOR, 6/5/97, Rev 1

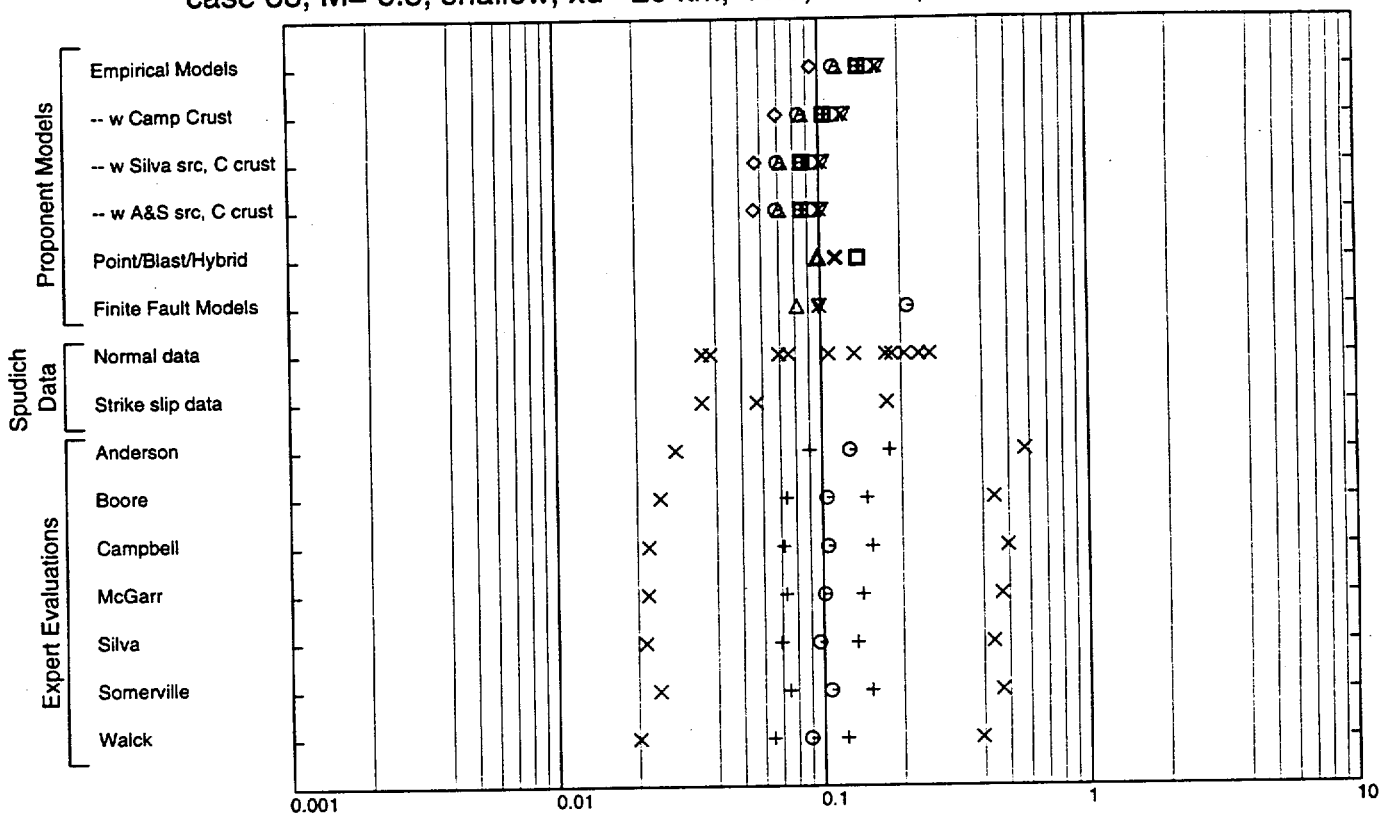


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



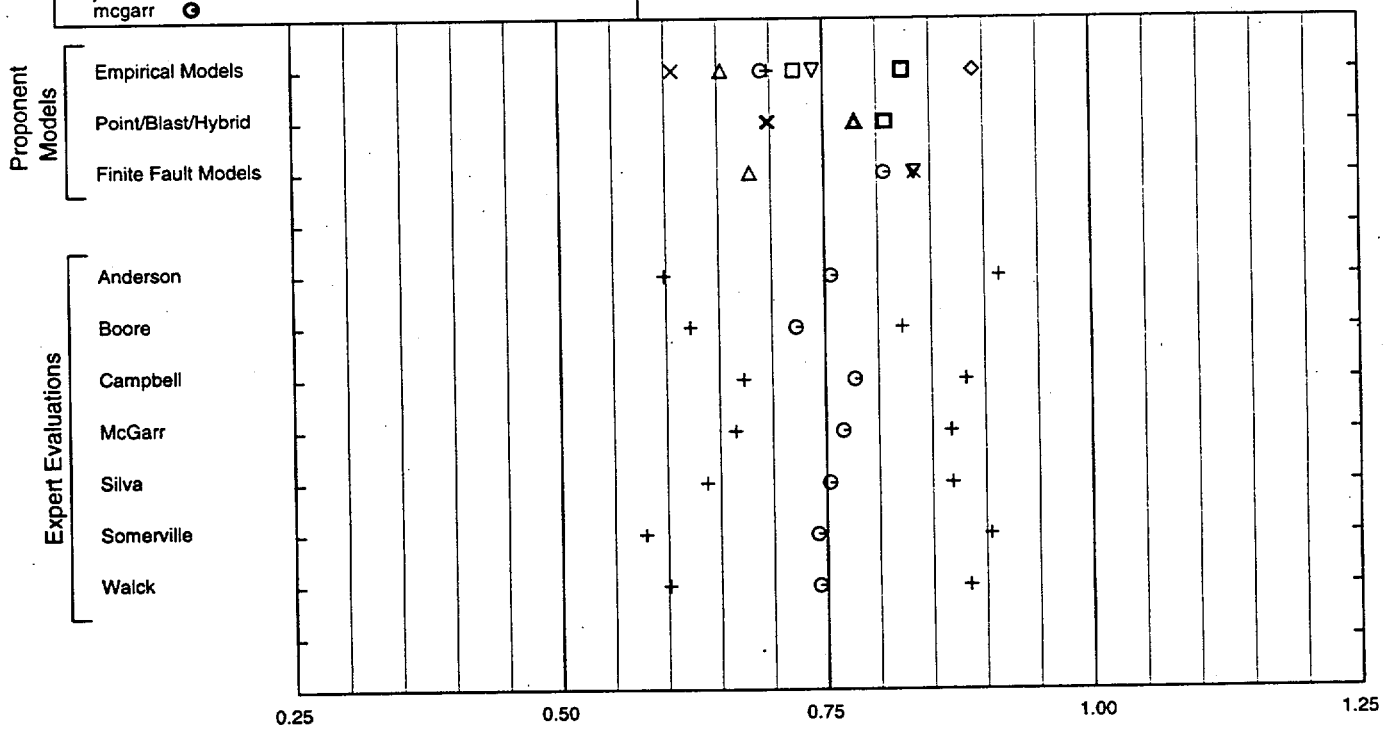
case 38, M= 6.5, shallow, xd= 20 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

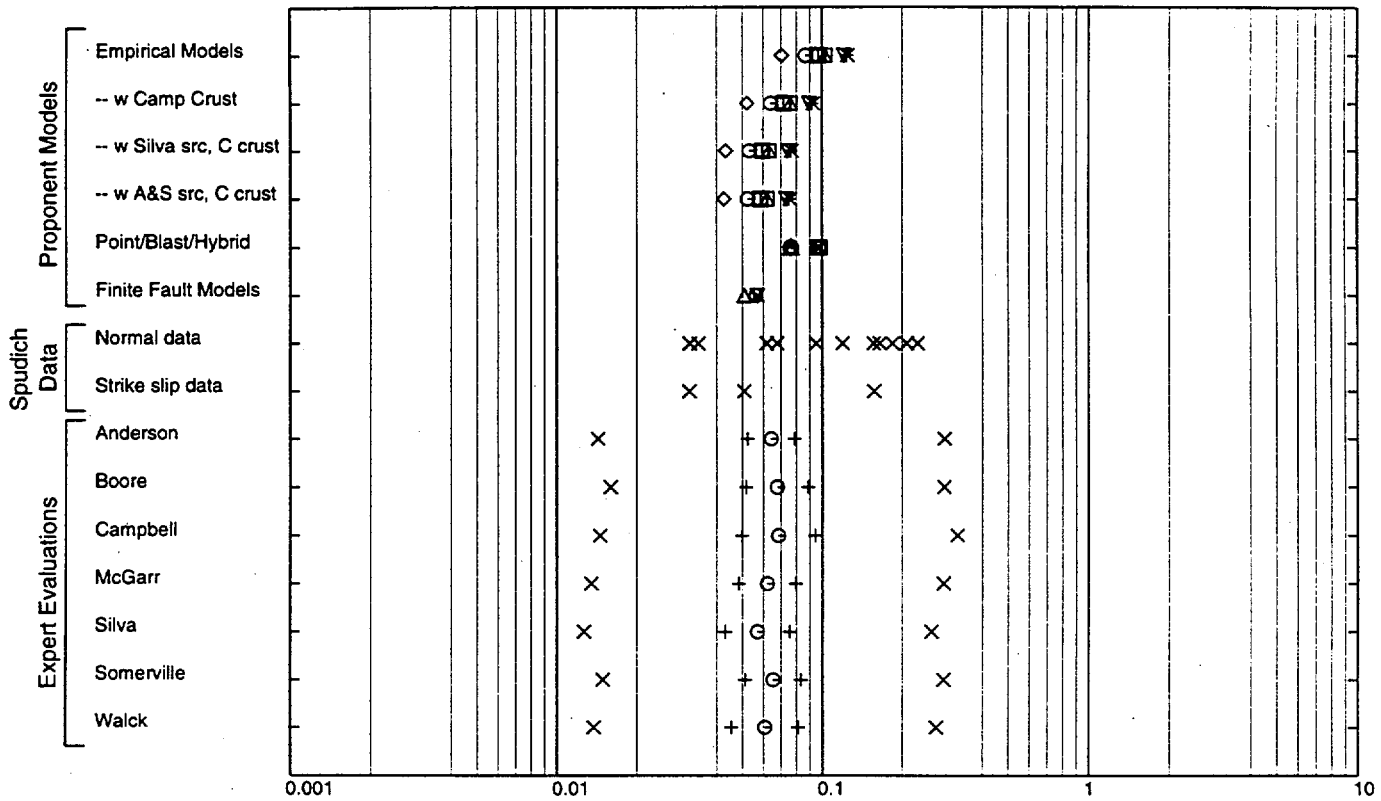
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

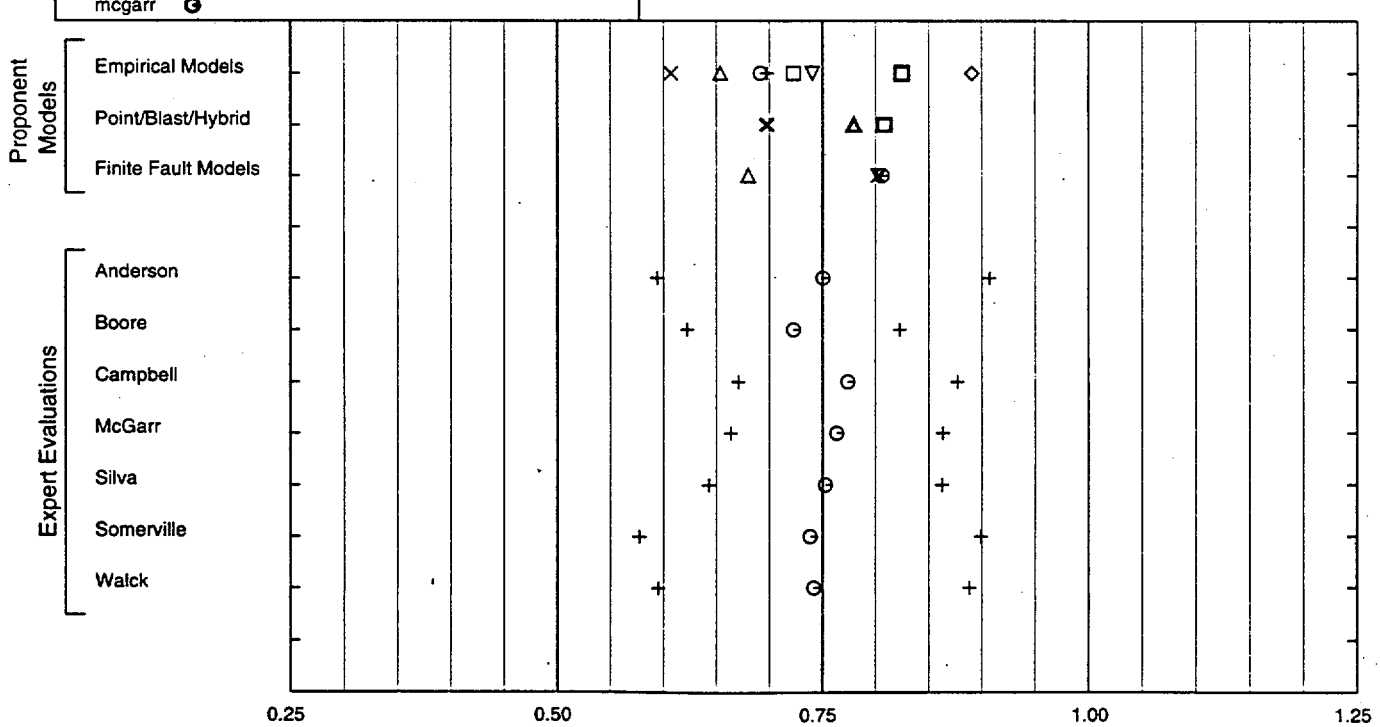
case 39, M= 6.5, shallow, xd=-20 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



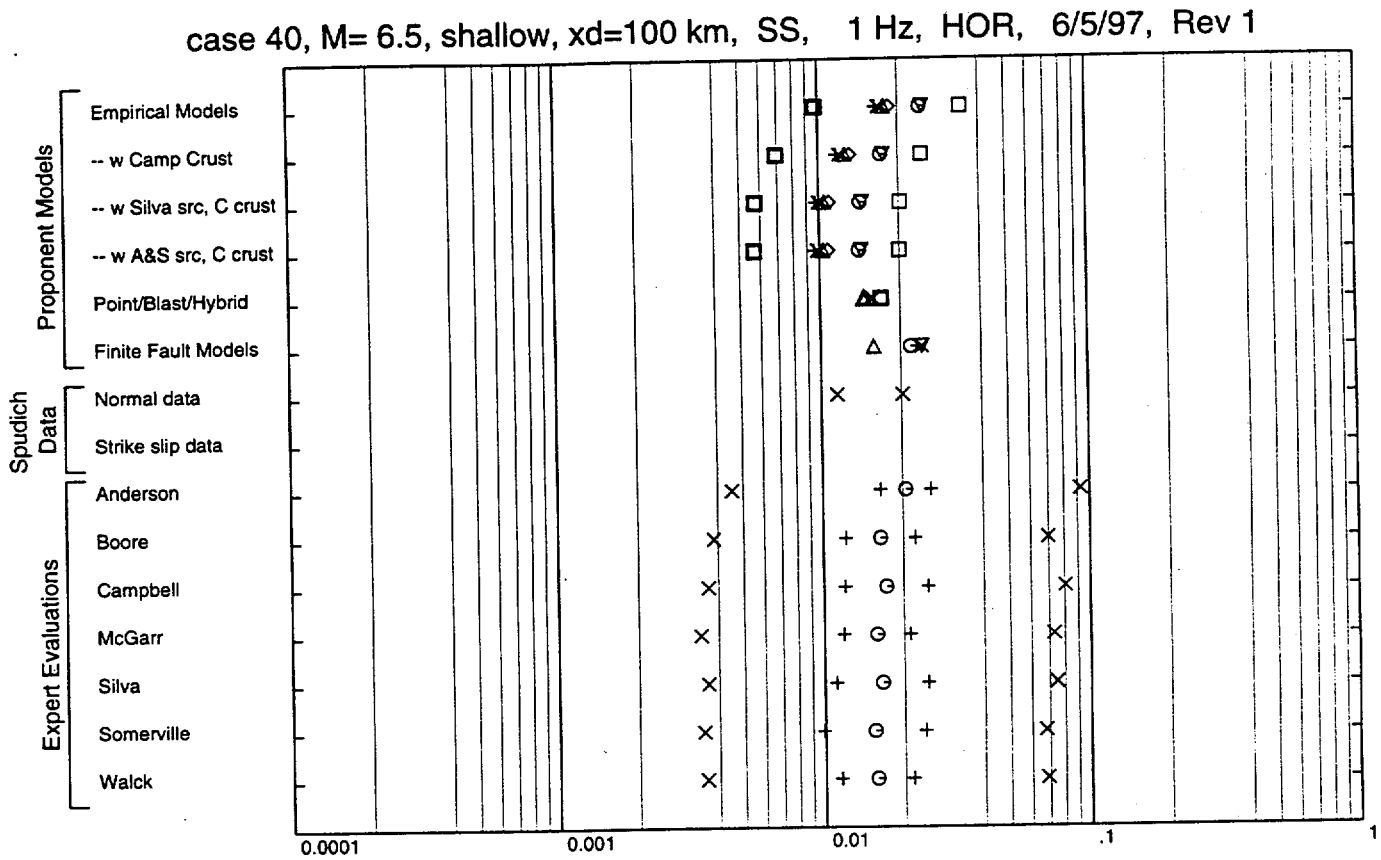
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

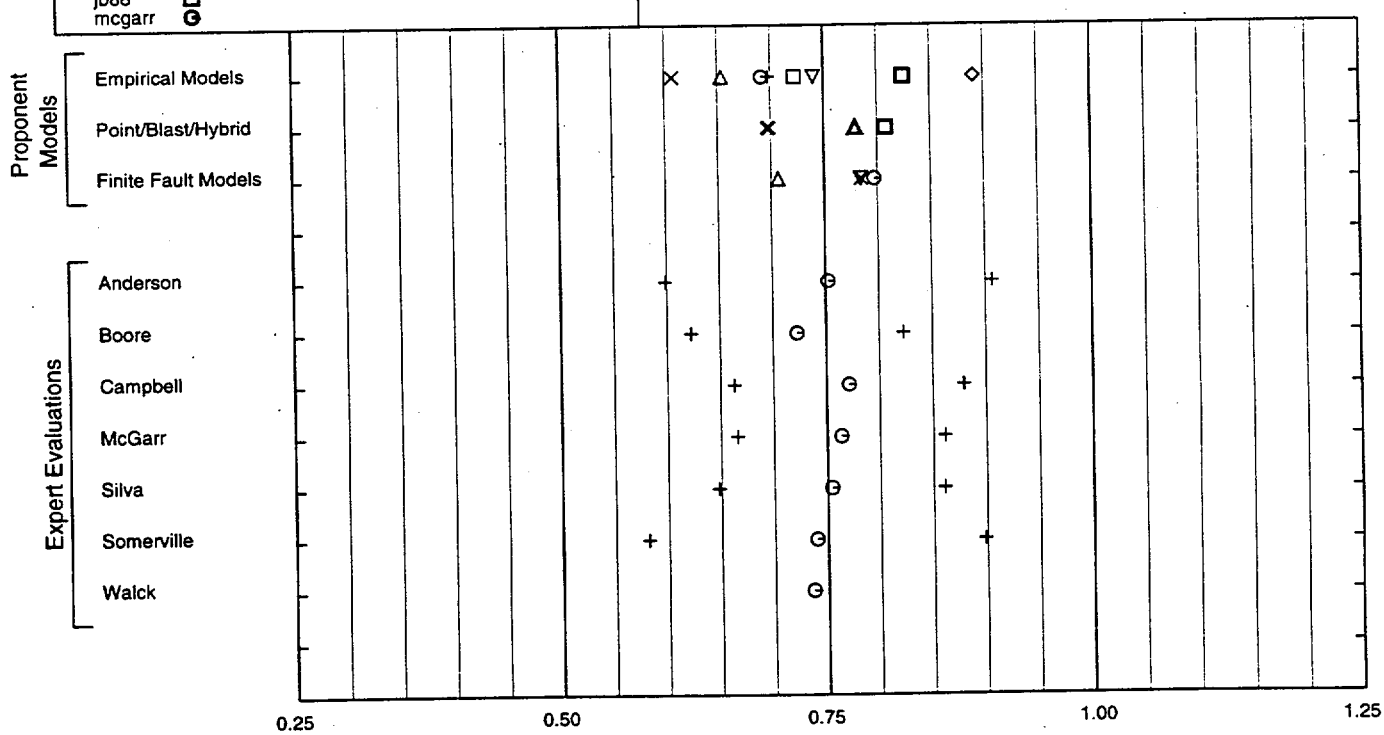


Aleatory Sigma (LN units) w/ Comp Var.

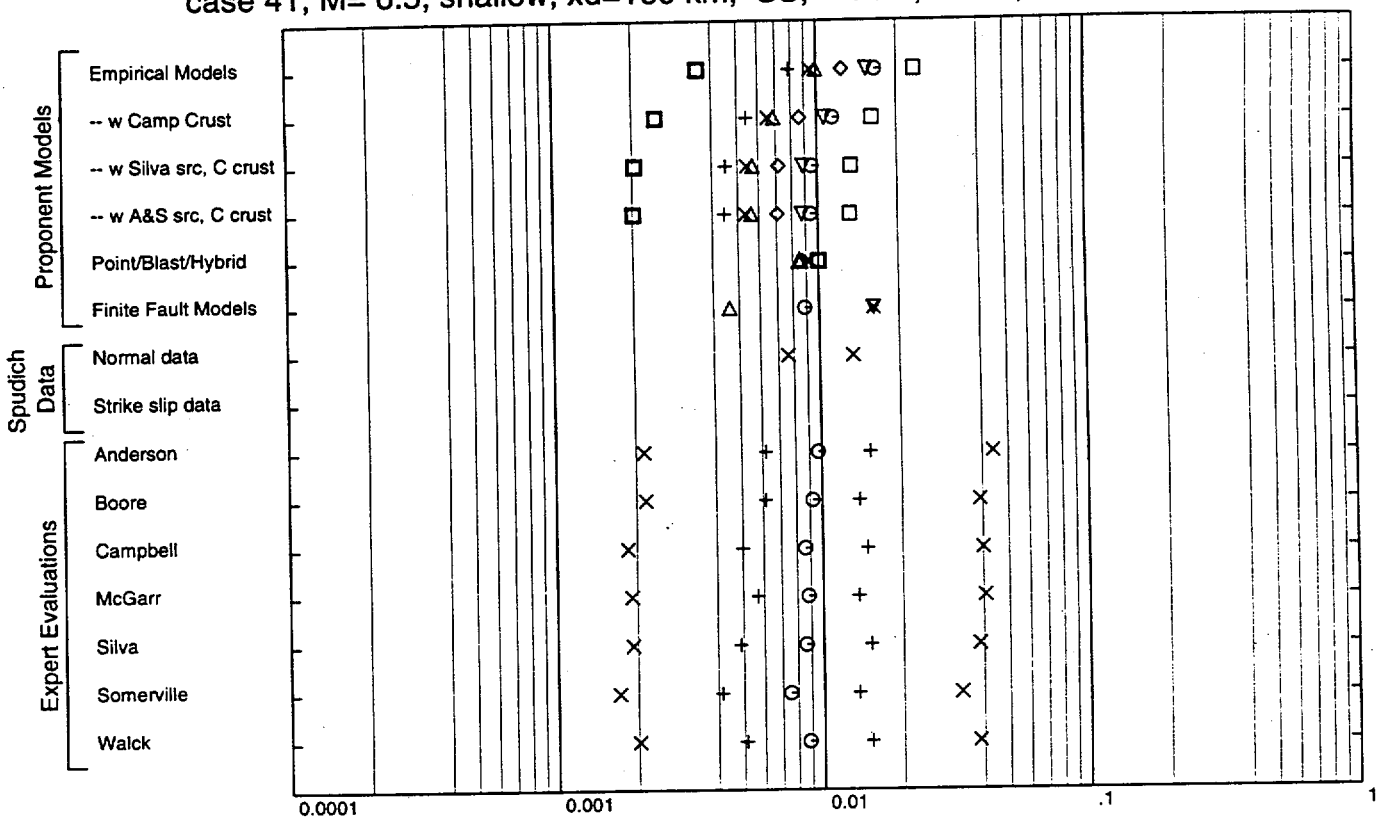


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



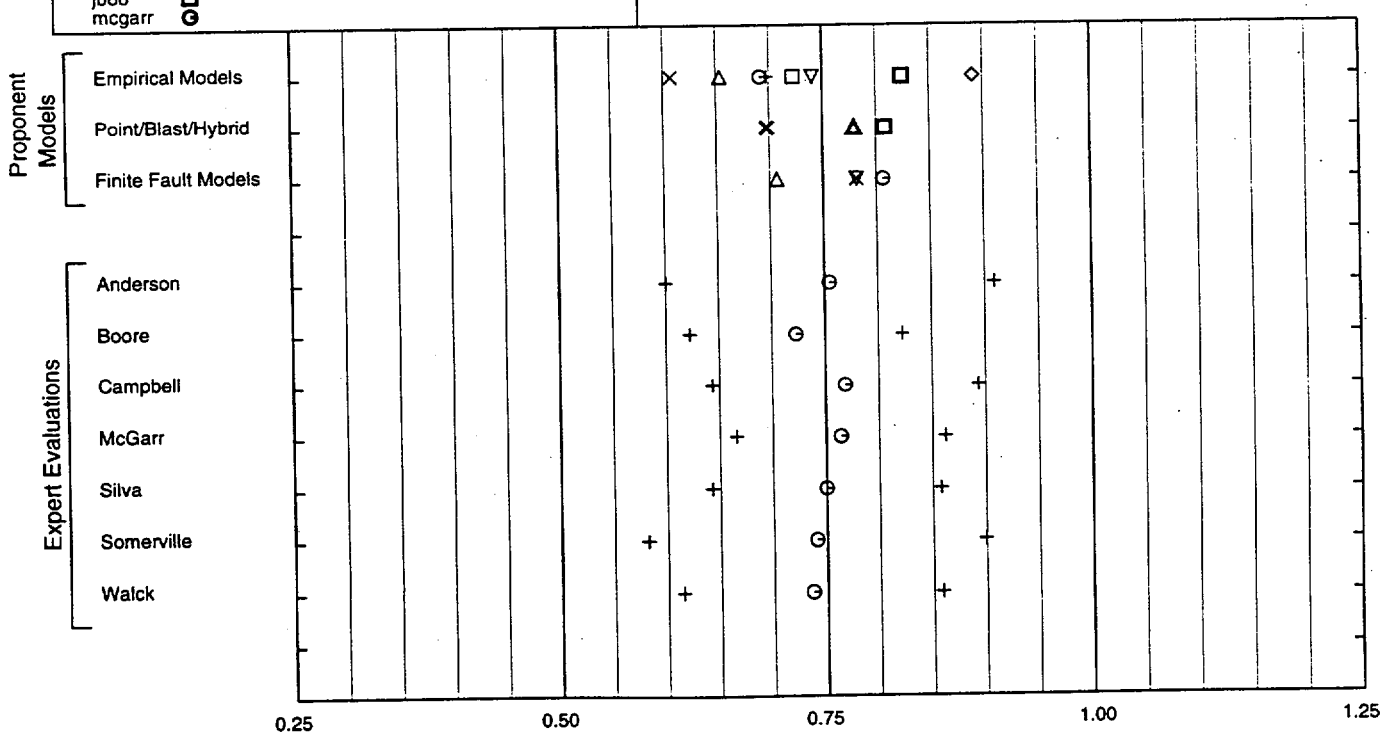
case 41, M= 6.5, shallow, xd=160 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

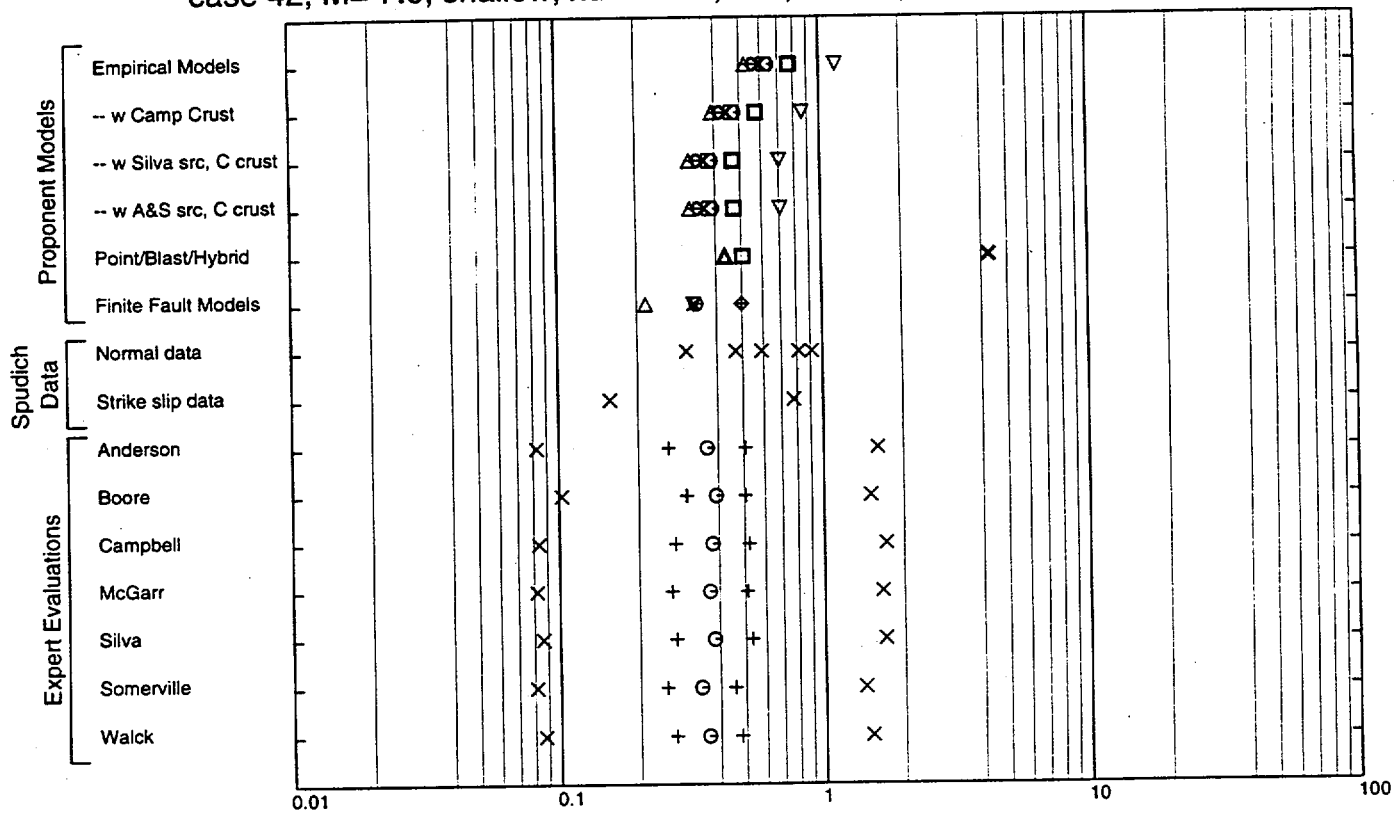
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

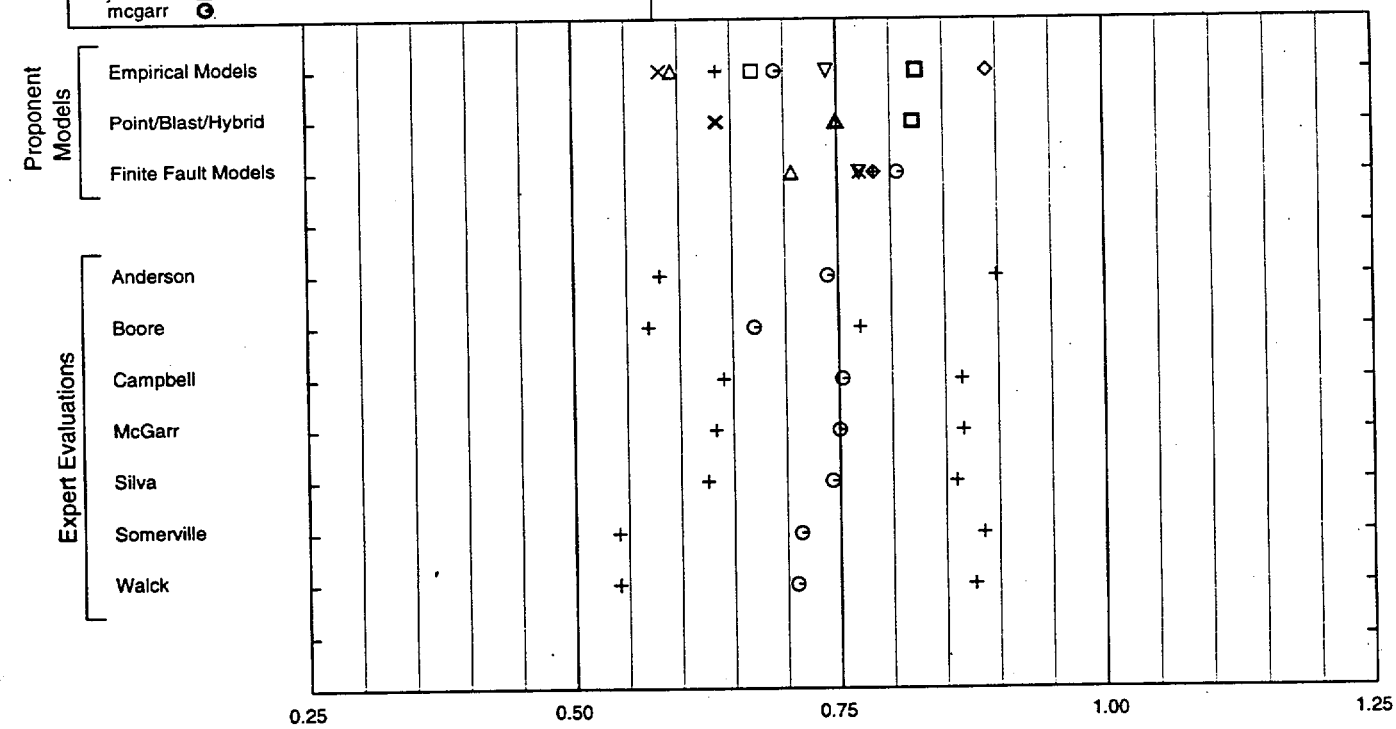
case 42, M= 7.0, shallow, xd= 1 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

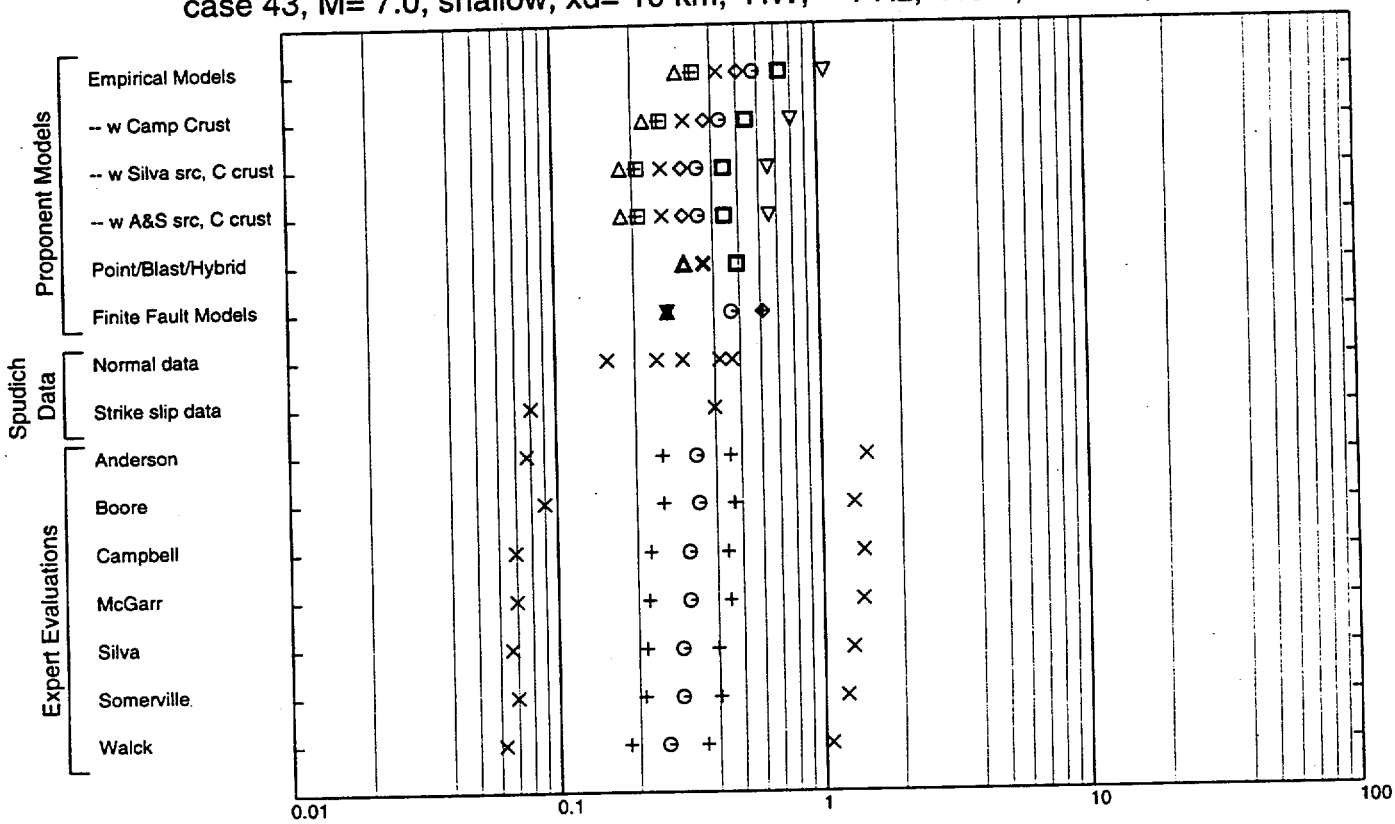
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

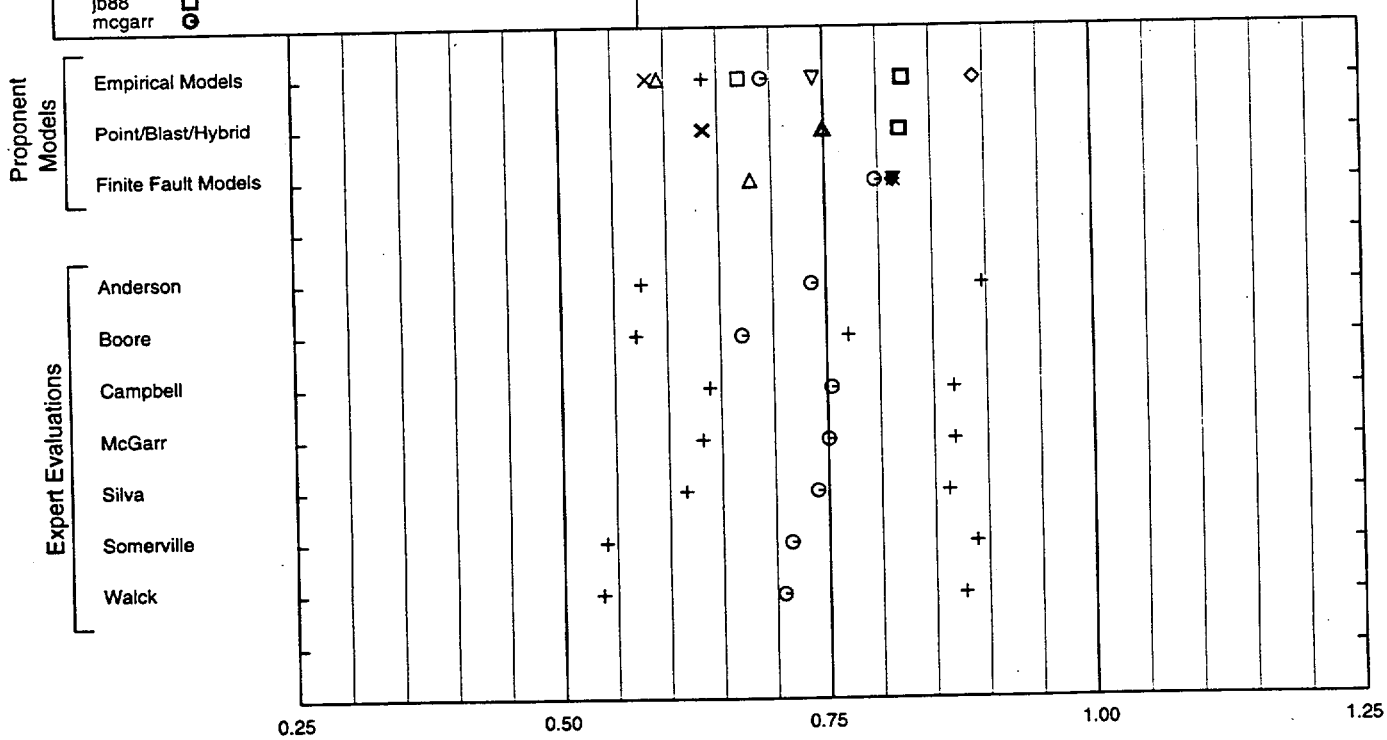
case 43, M= 7.0, shallow, xd= 10 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

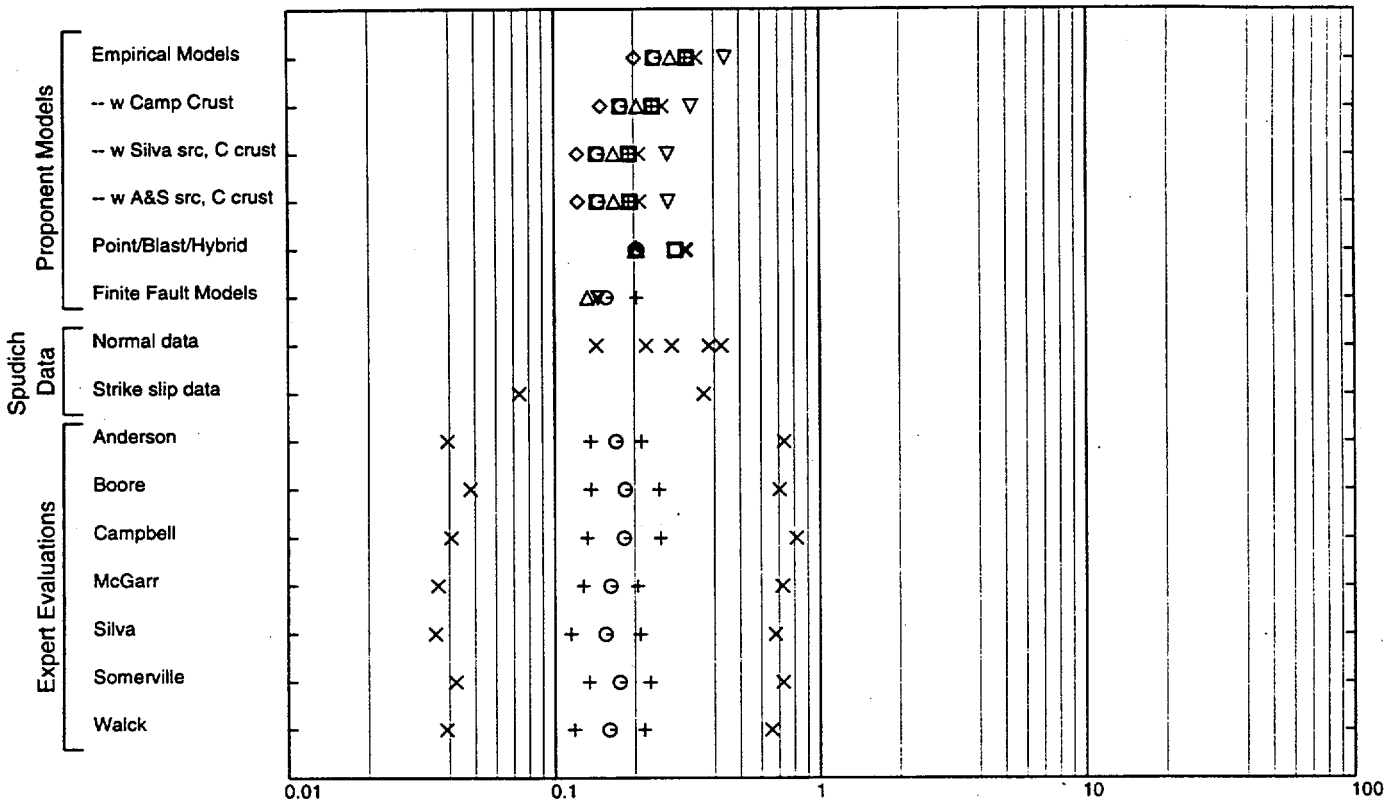
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

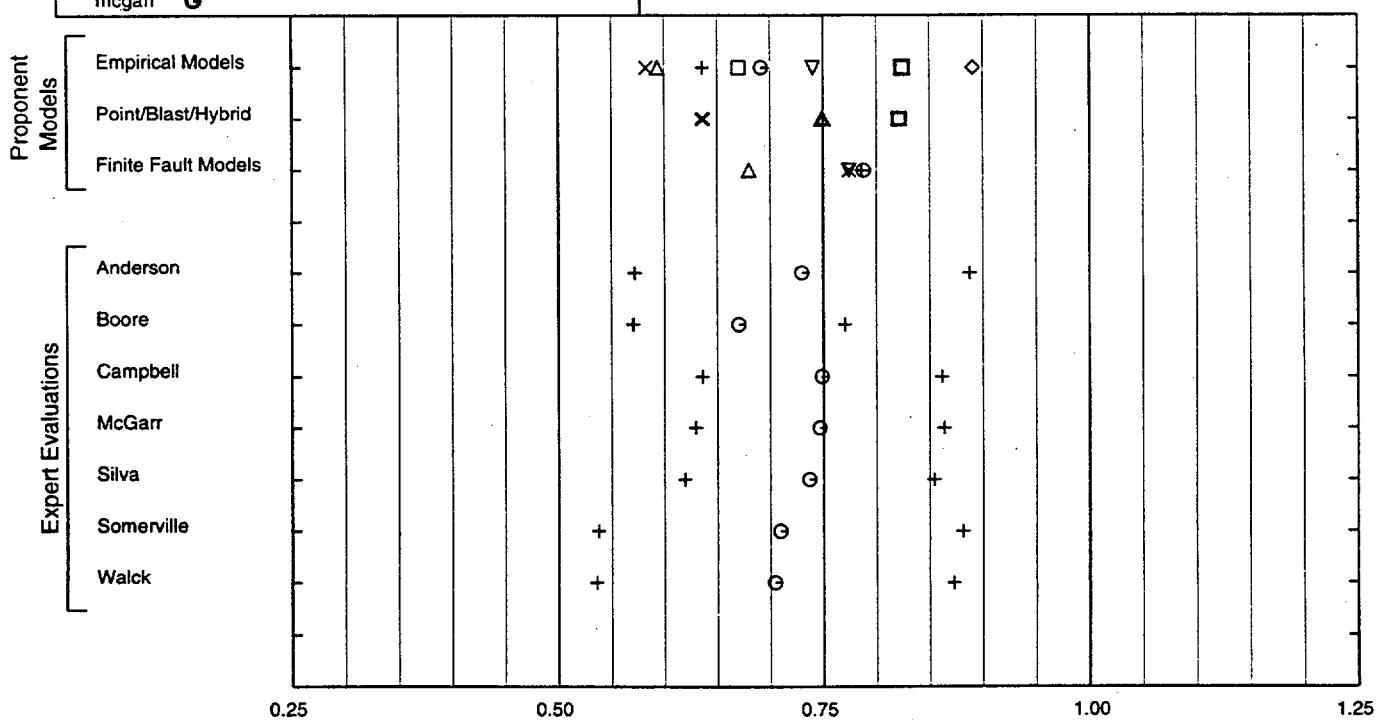
case 44, M= 7.0, shallow, xd=-10 km, FW, 1 Hz, HOR, 6/5/97, Rev 1



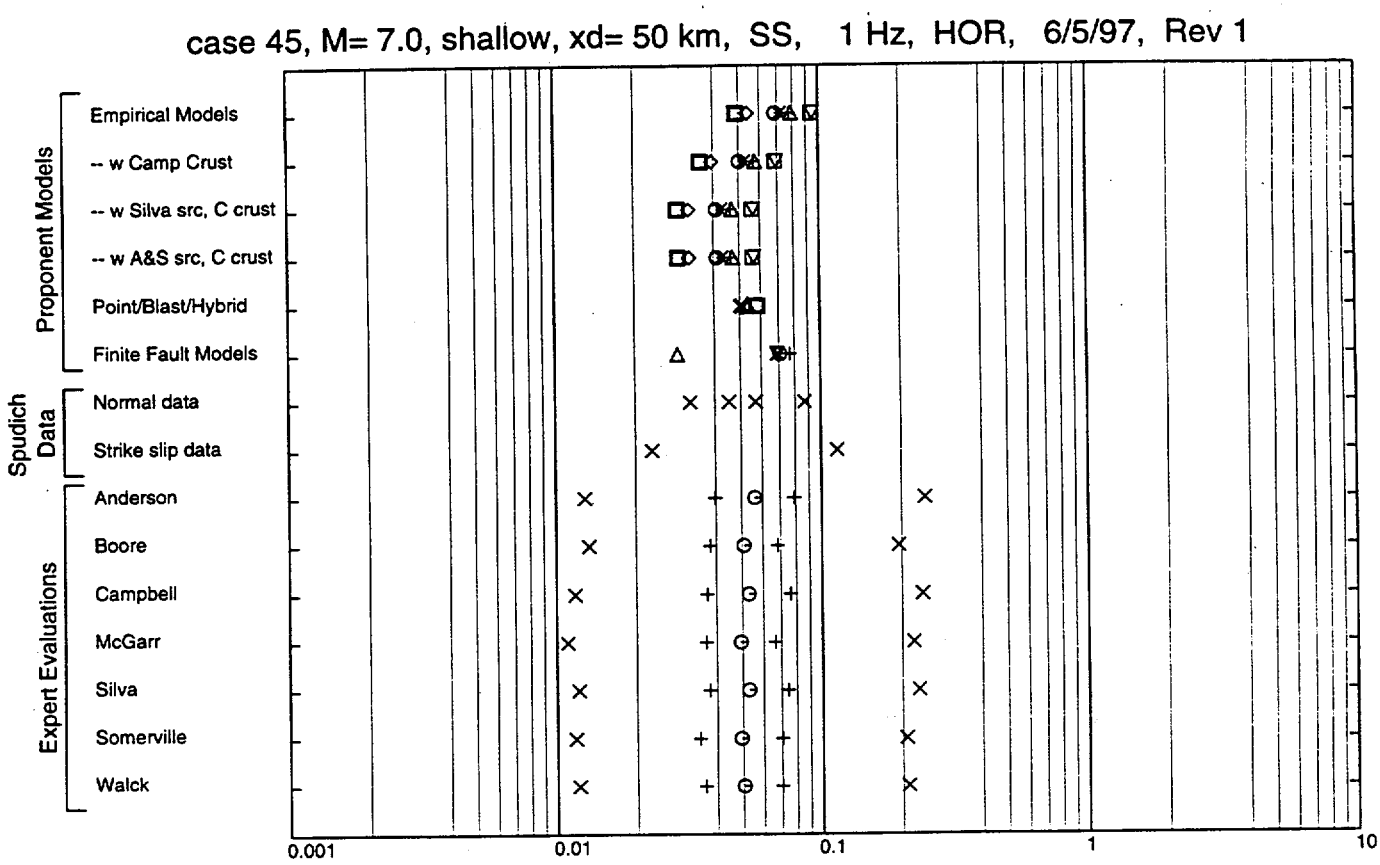
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

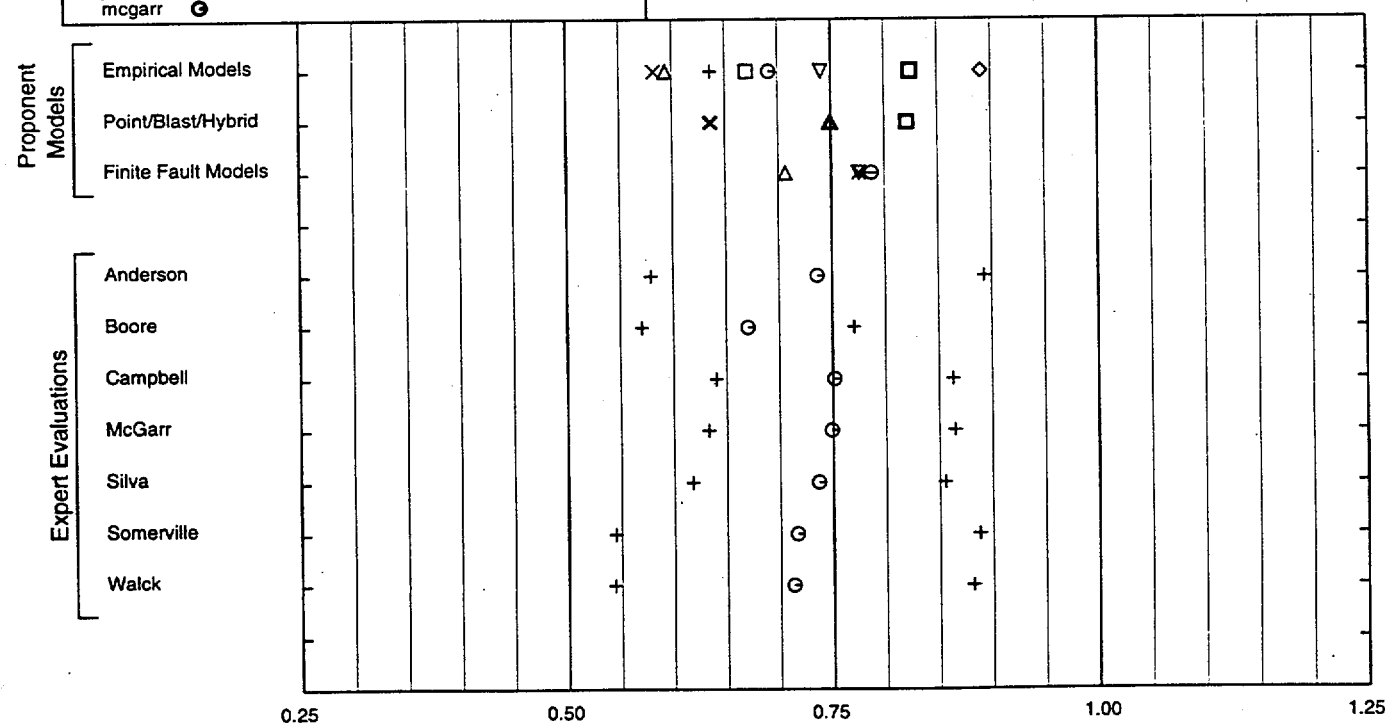


Aleatory Sigma (LN units) w/ Comp Var.

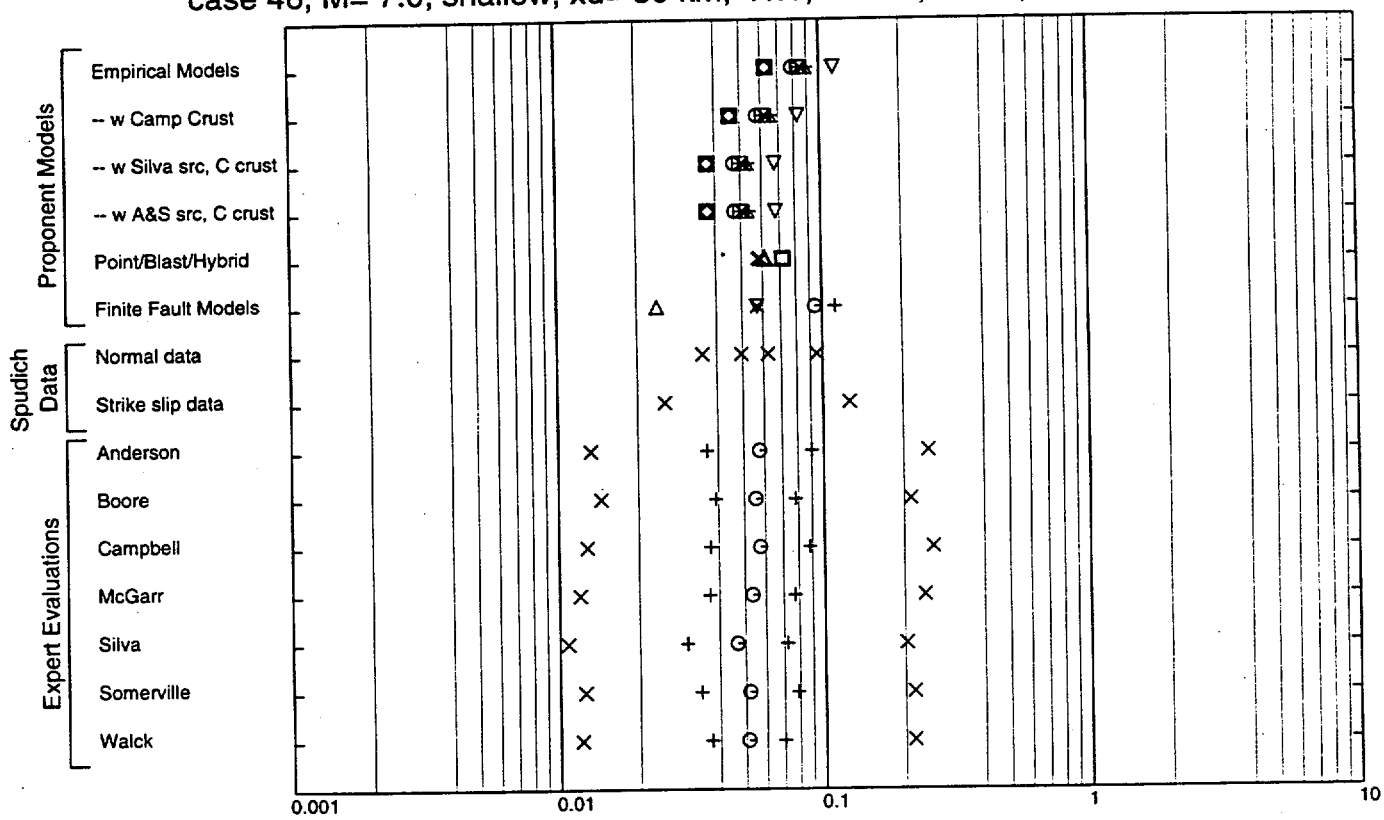


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



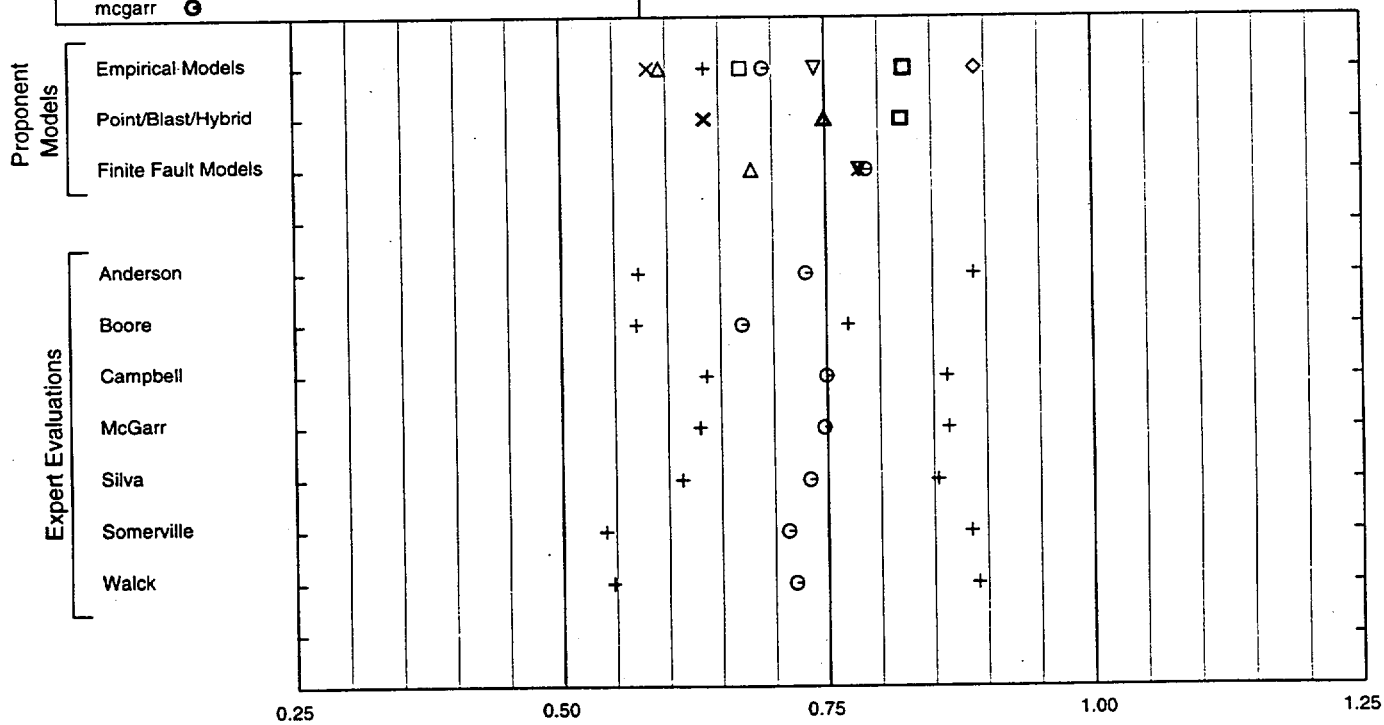
case 46, M= 7.0, shallow, xd= 50 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



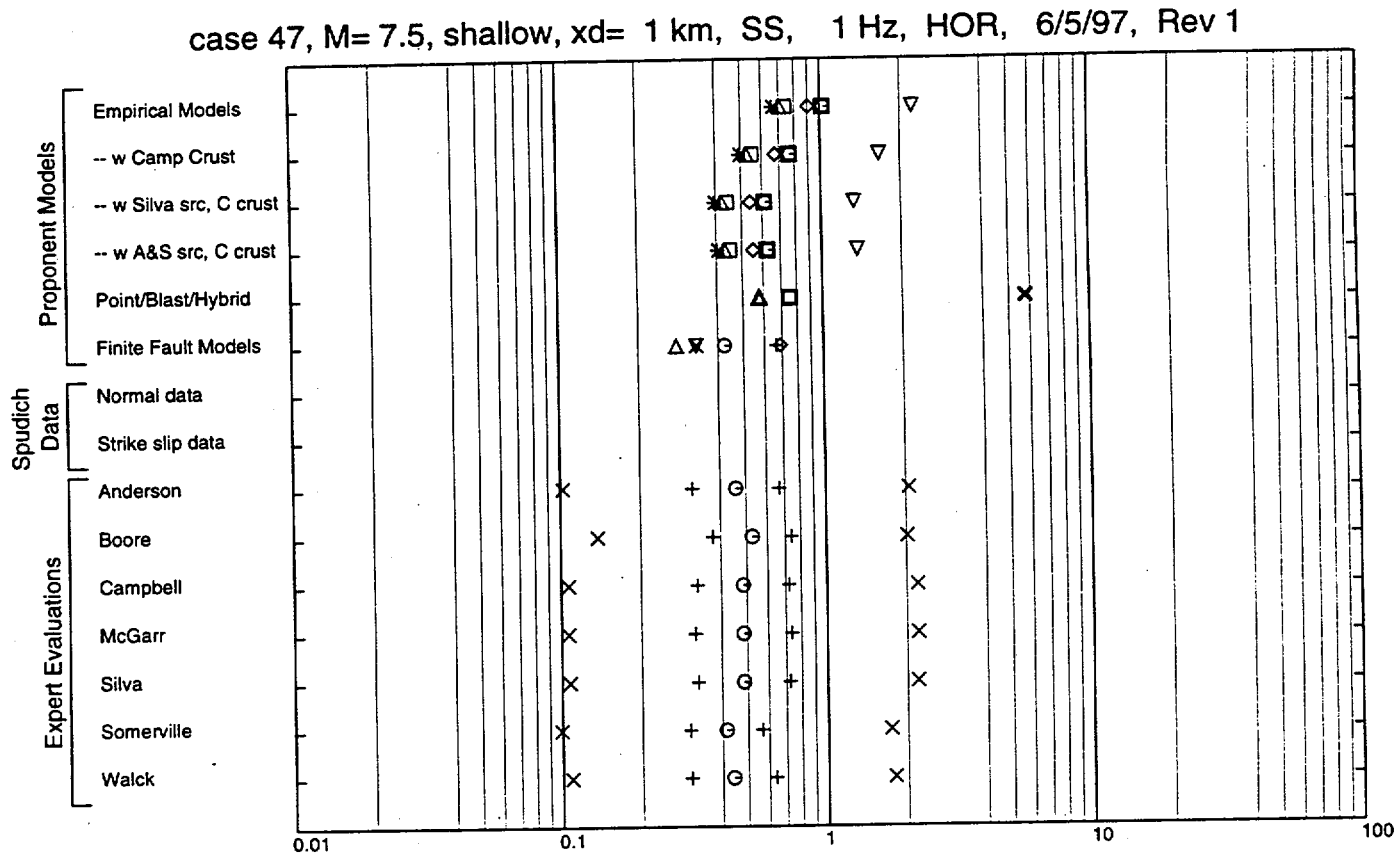
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)

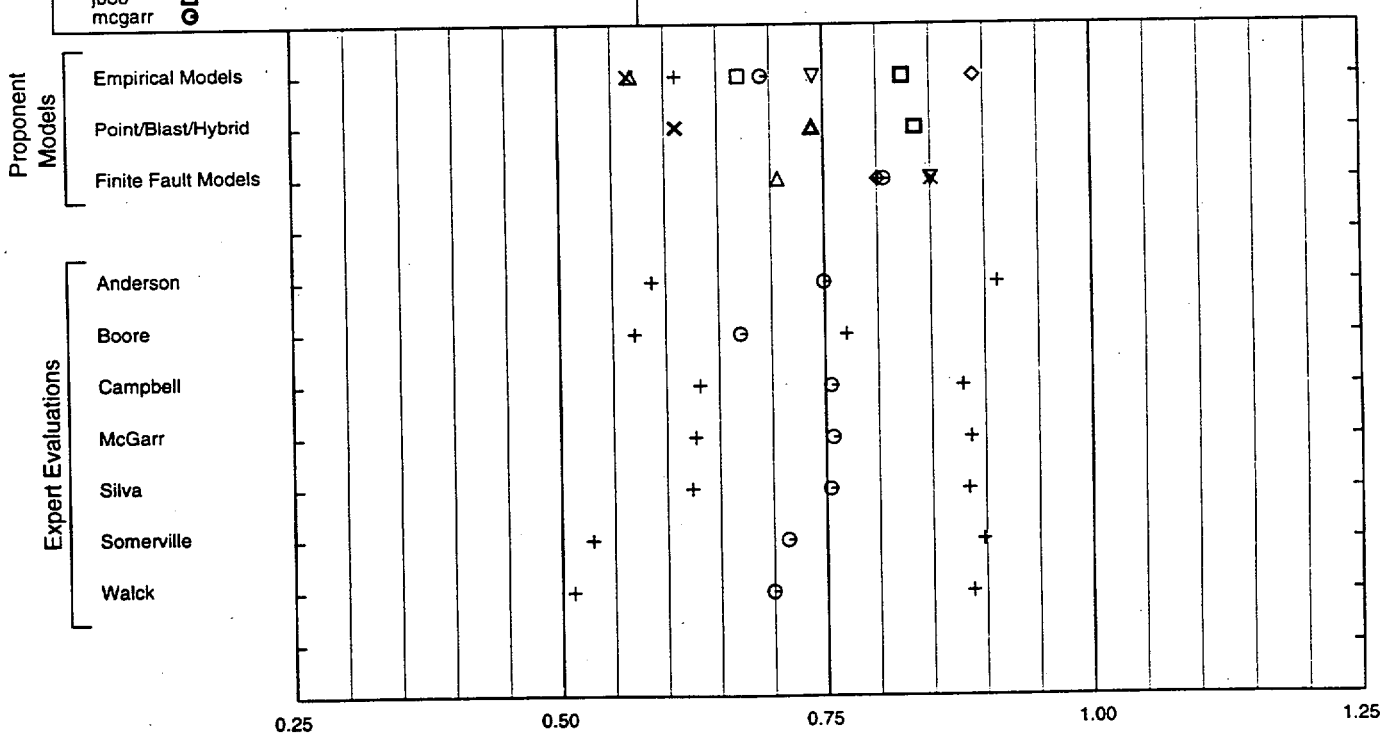


Aleatory Sigma (LN units) w/ Comp Var.

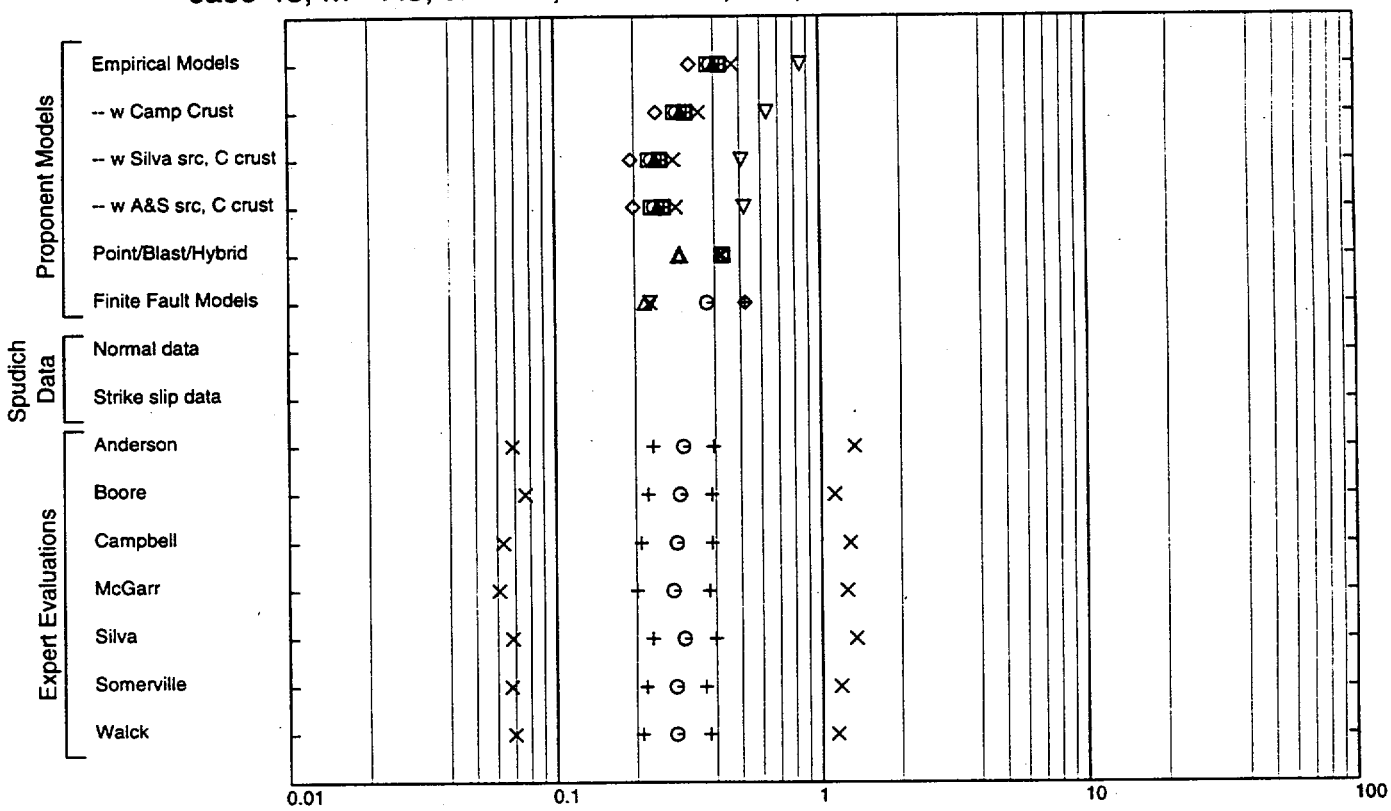


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



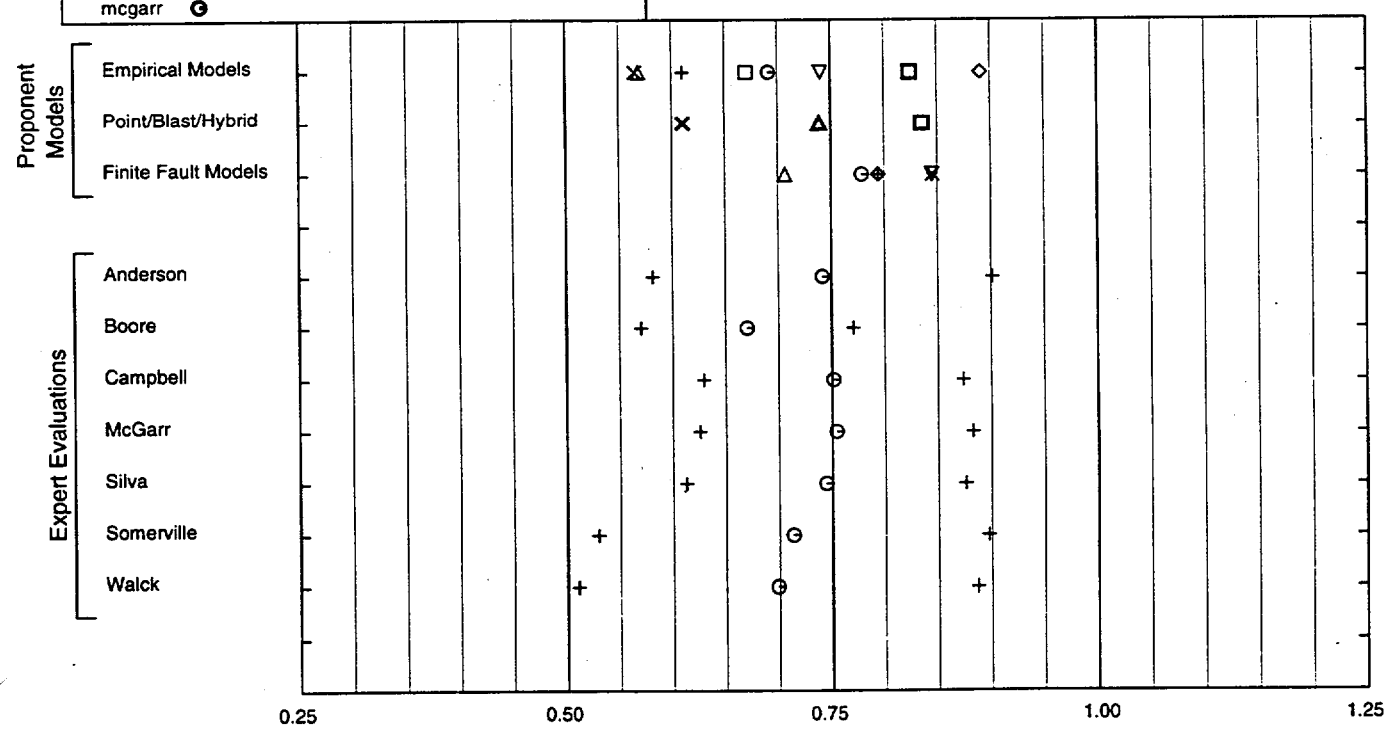
case 48, M= 7.5, shallow, xd= 10 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

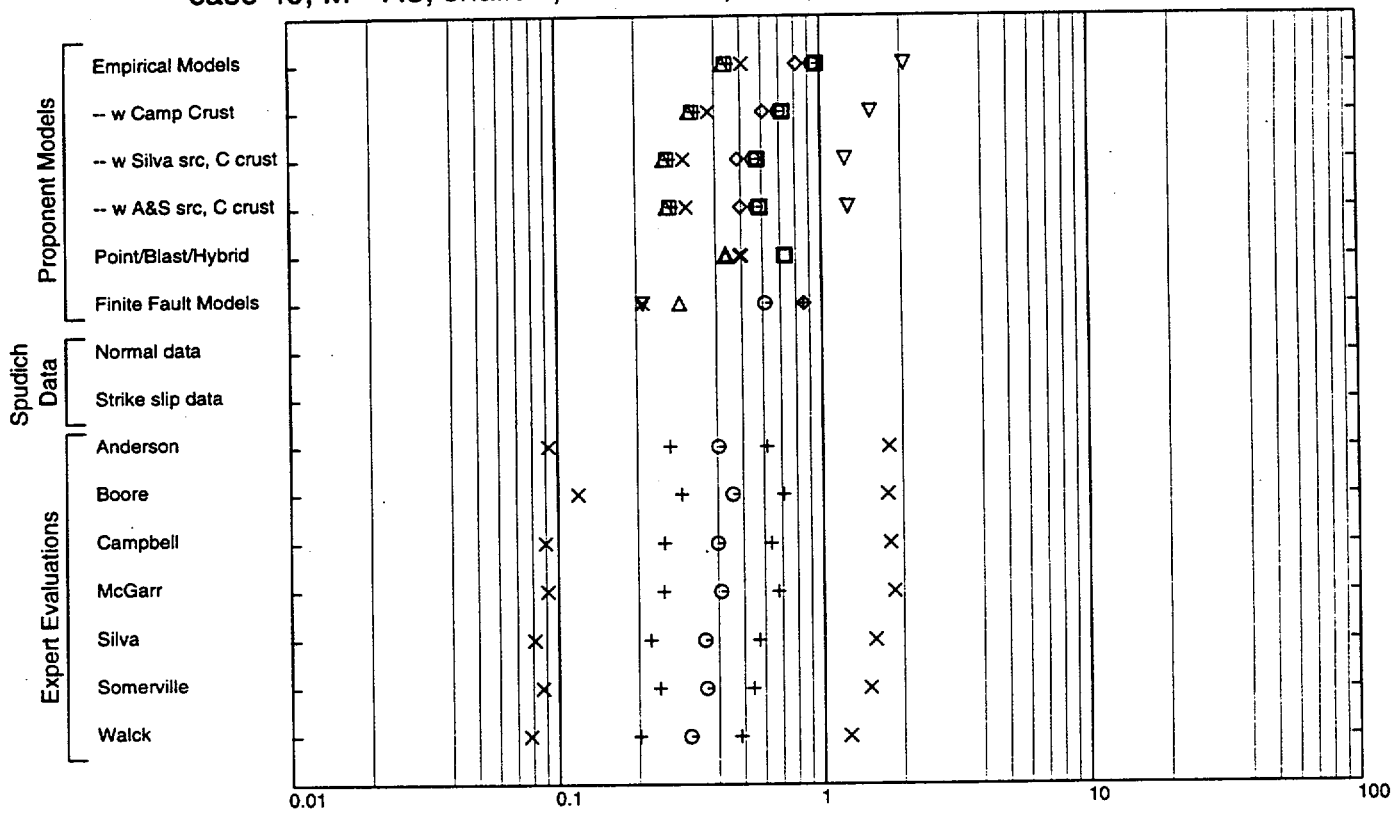
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

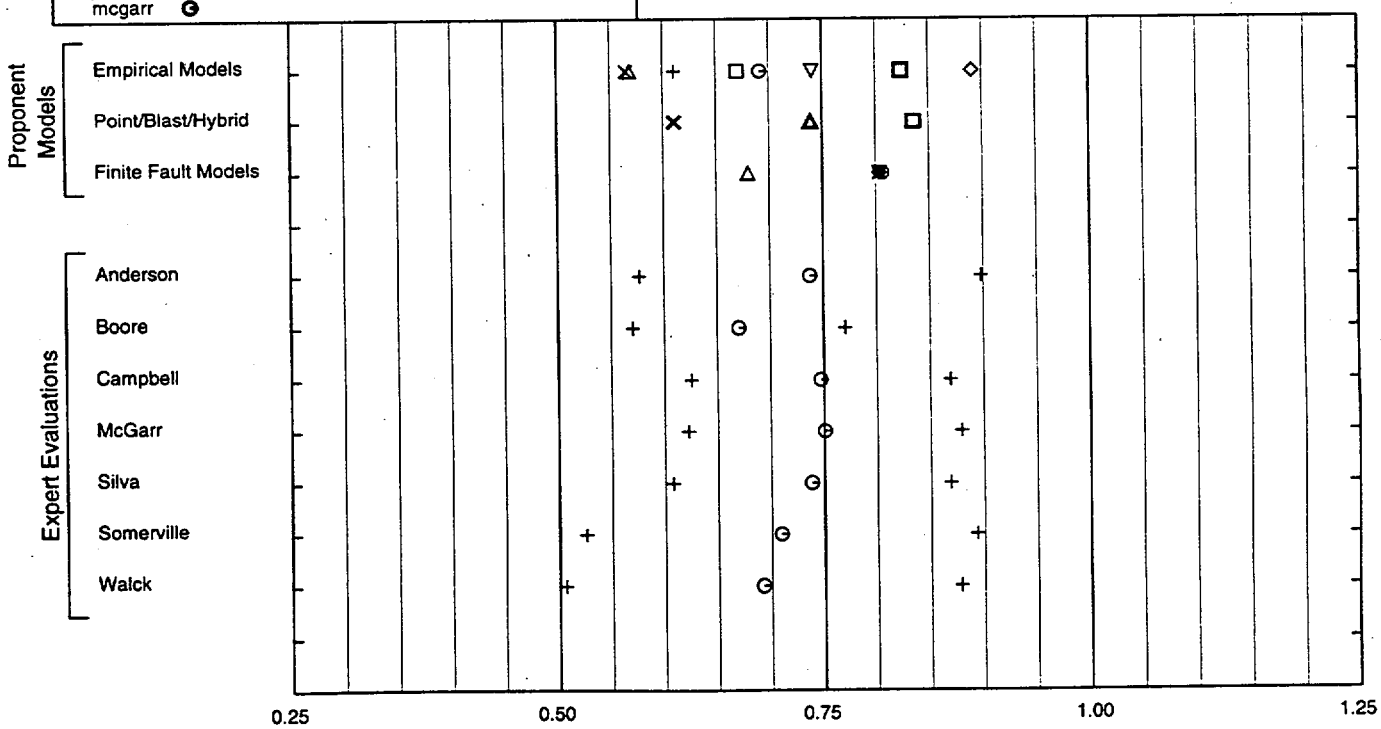
case 49, M= 7.5, shallow, xd= 10 km, HW, 1 Hz, HOR, 6/5/97, Rev 1



LEGEND

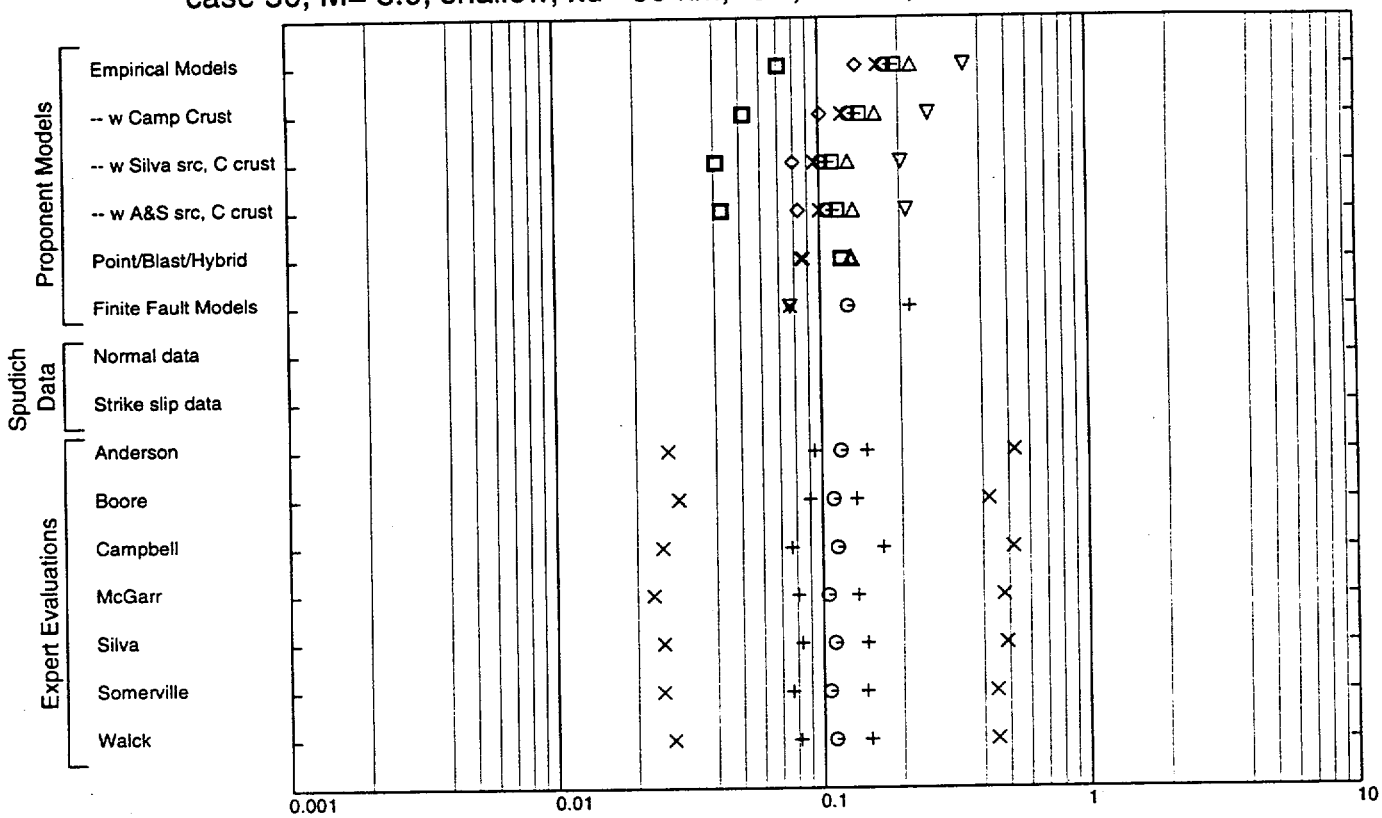
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



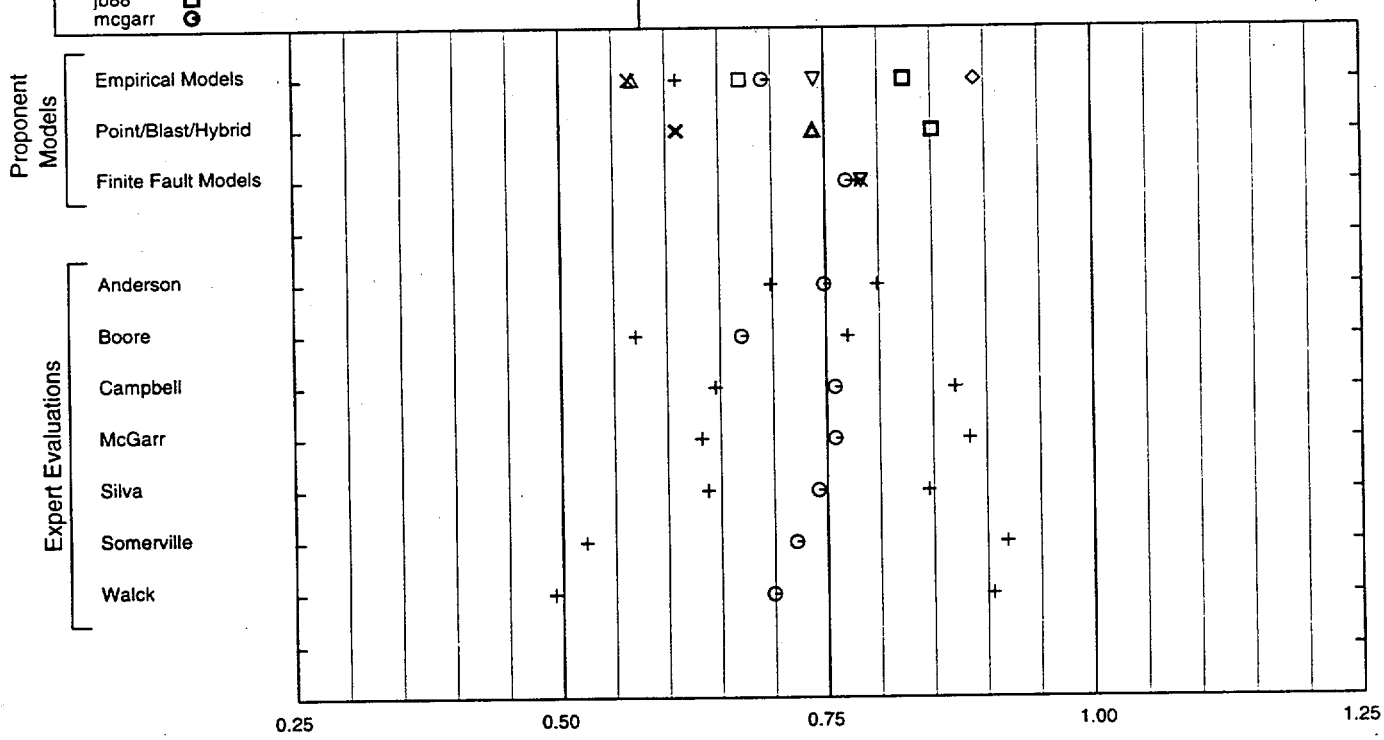
Aleatory Sigma (LN units) w/ Comp Var.

case 50, M= 8.0, shallow, xd= 50 km, SS, 1 Hz, HOR, 6/5/97, Rev 1

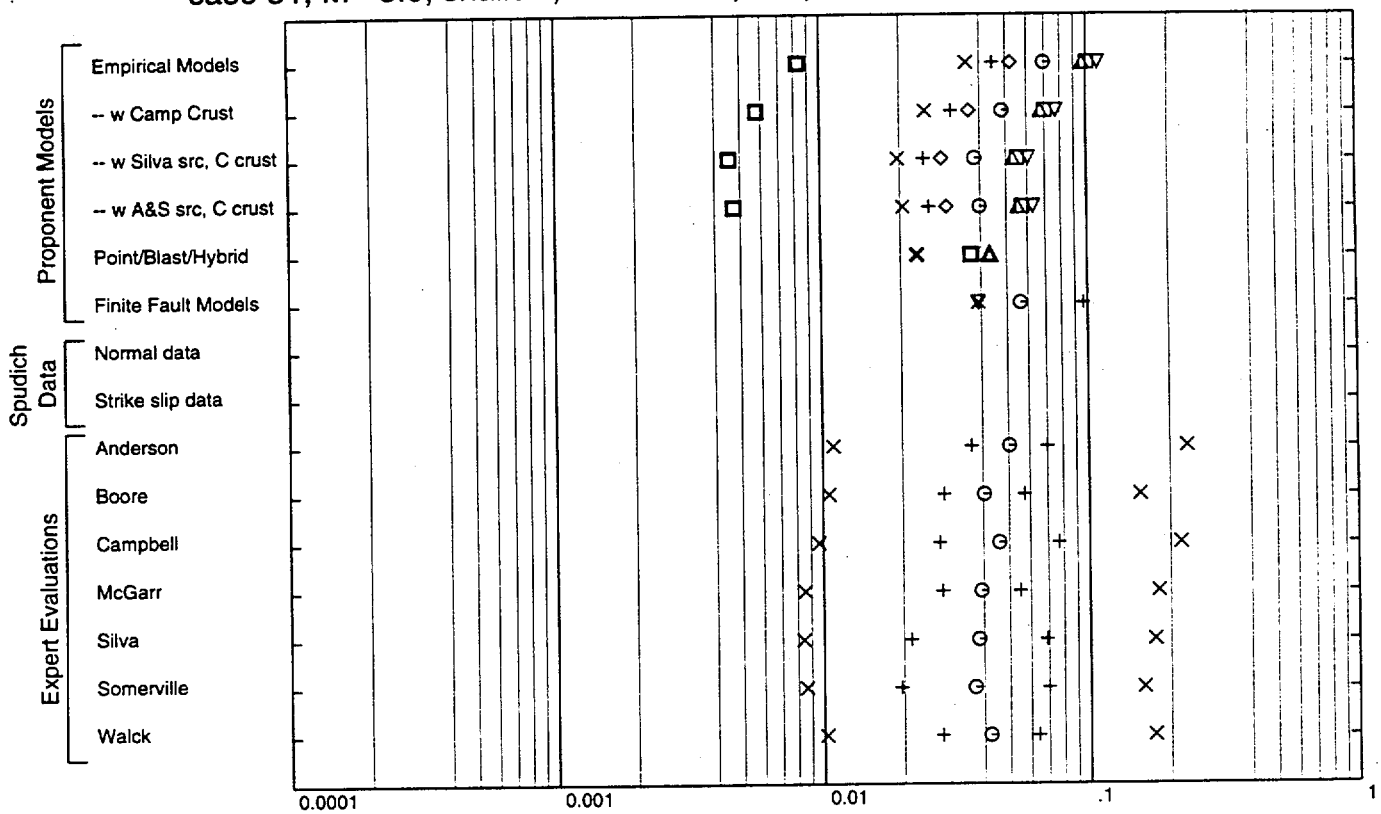


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



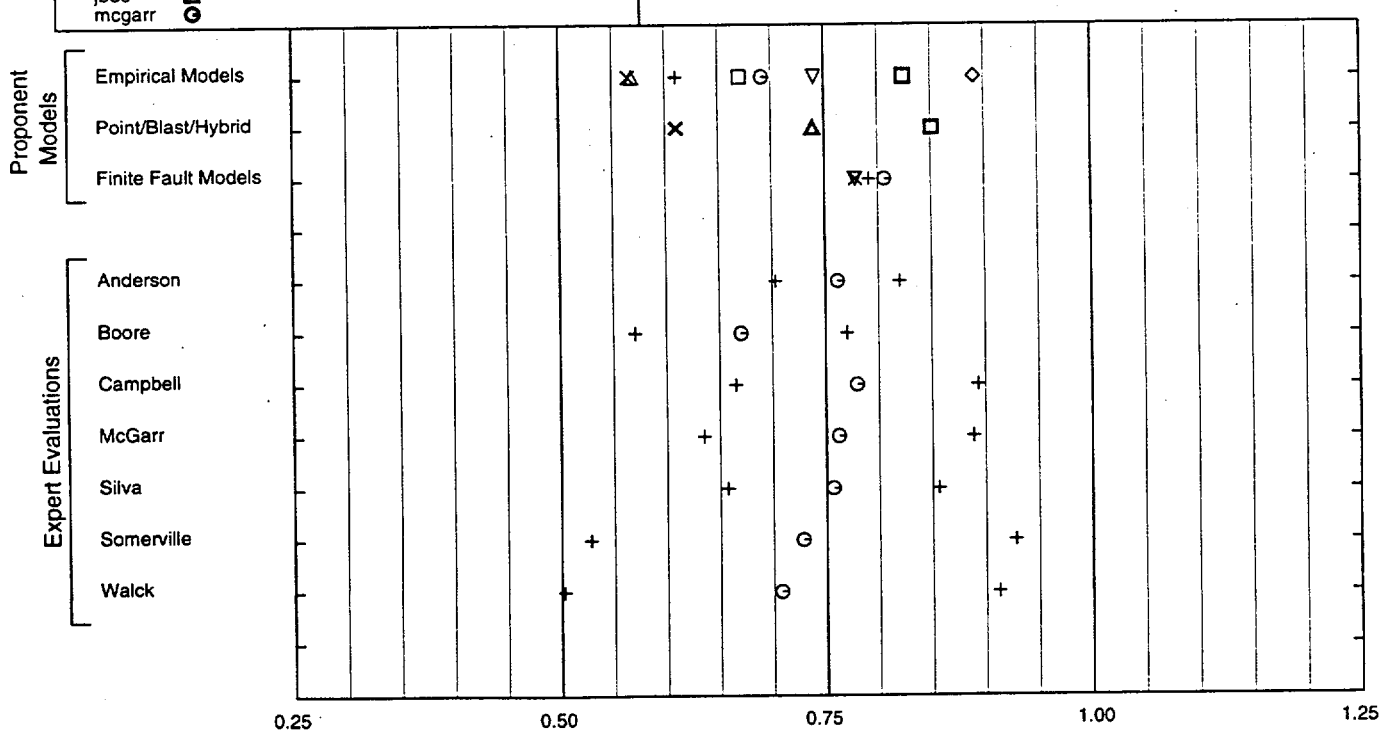
case 51, M= 8.0, shallow, xd=160 km, SS, 1 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

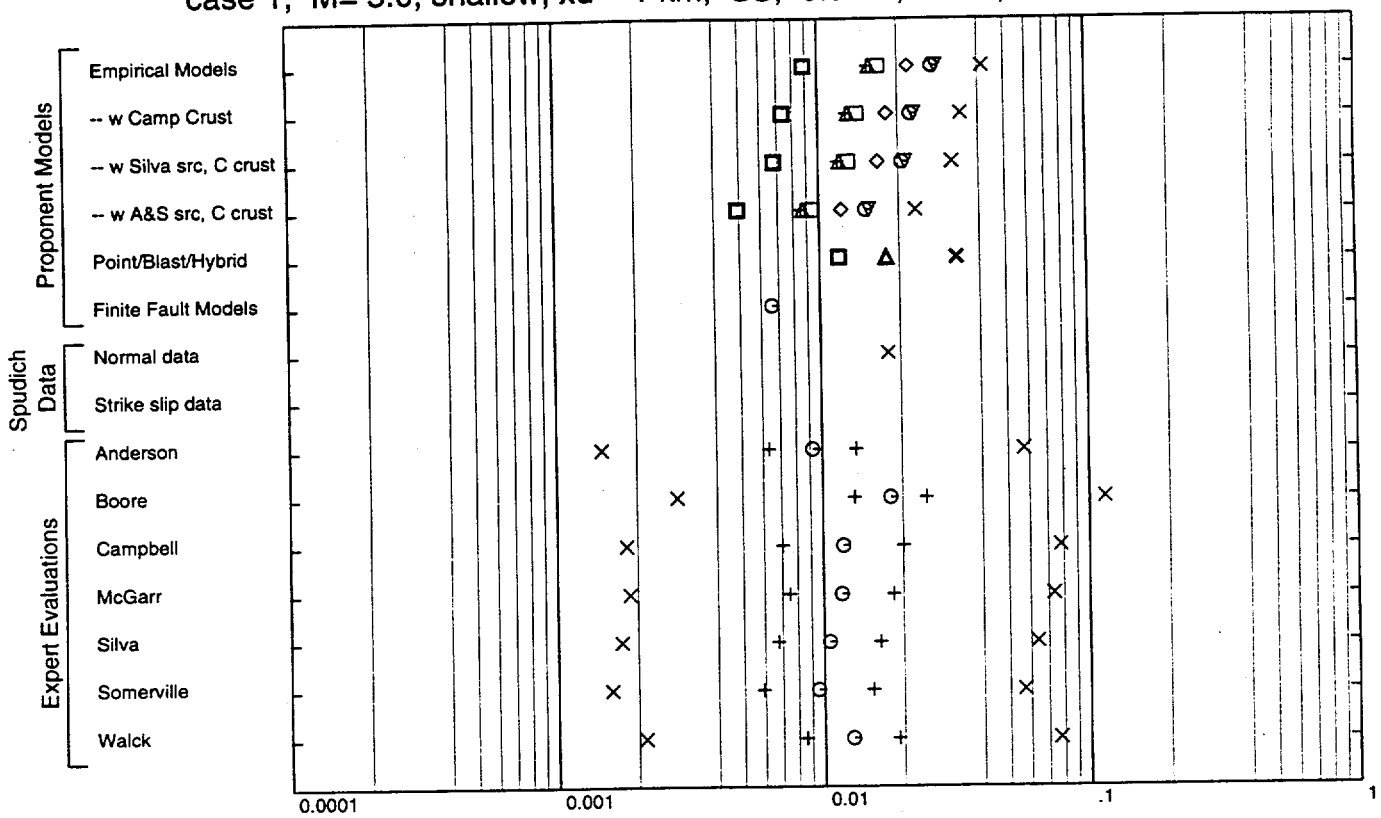
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

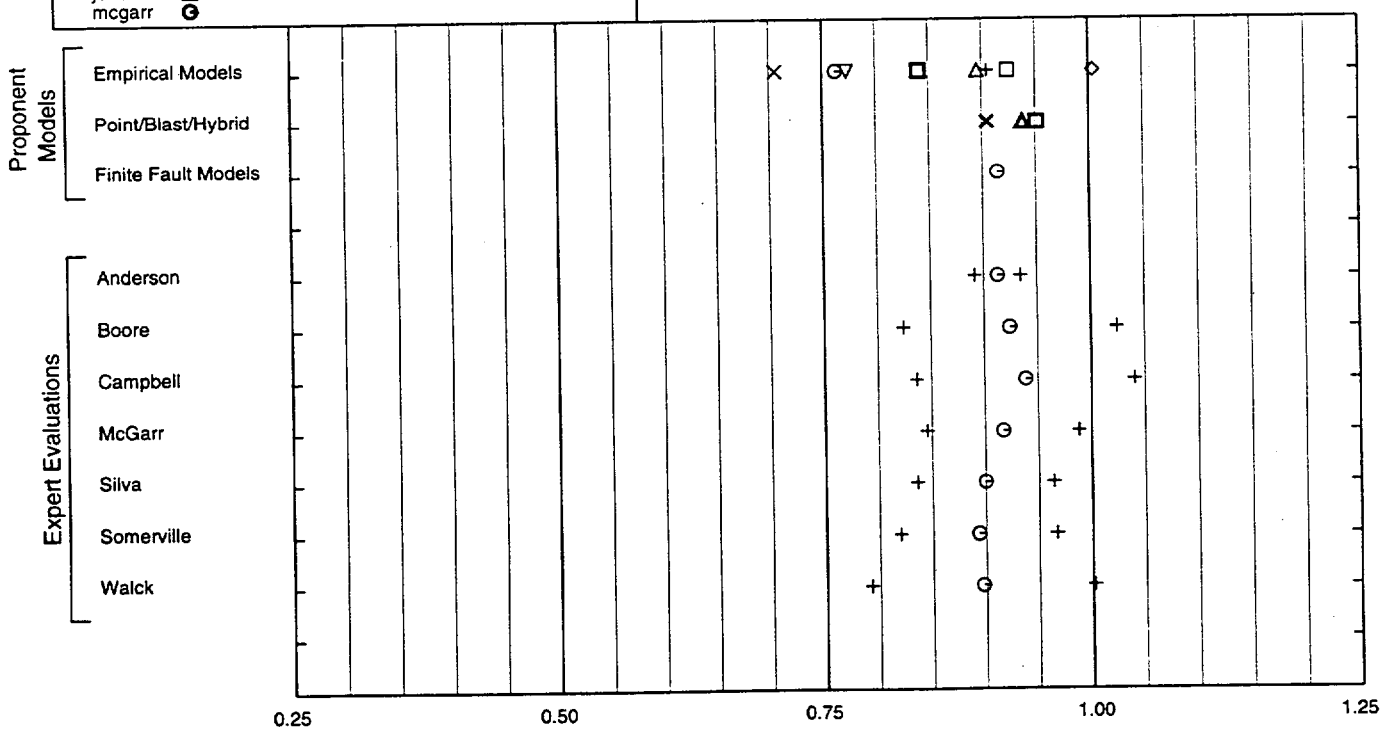
case 1, M= 5.0, shallow, xd= 1 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

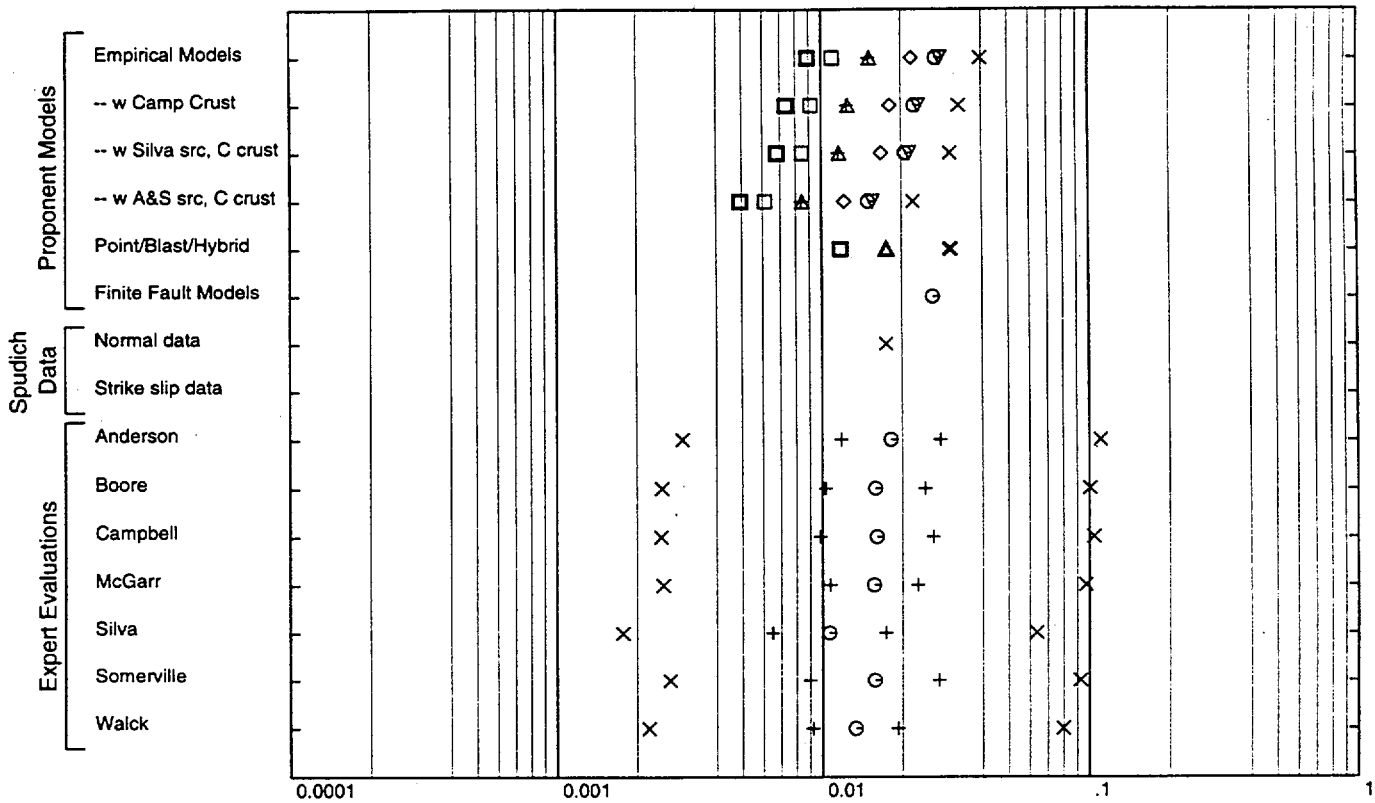
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

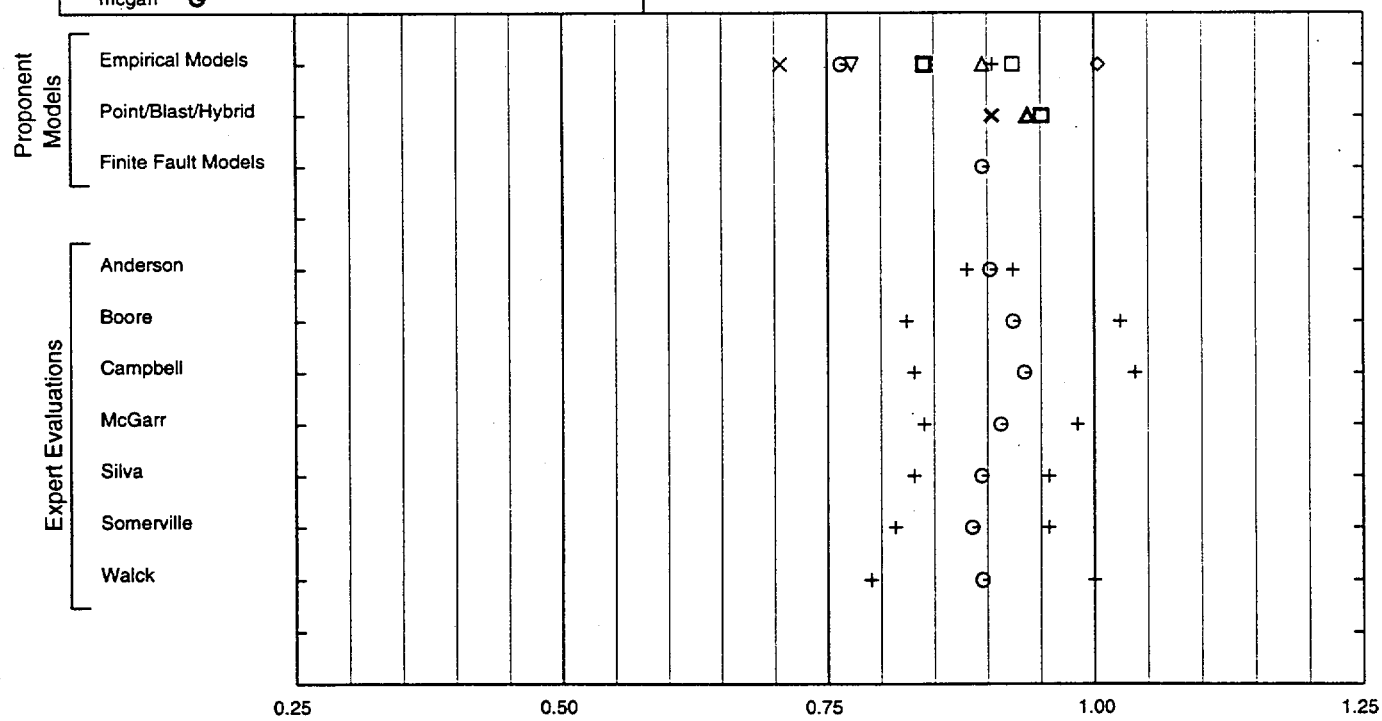
case 2, M= 5.0, shallow, xd= 1 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

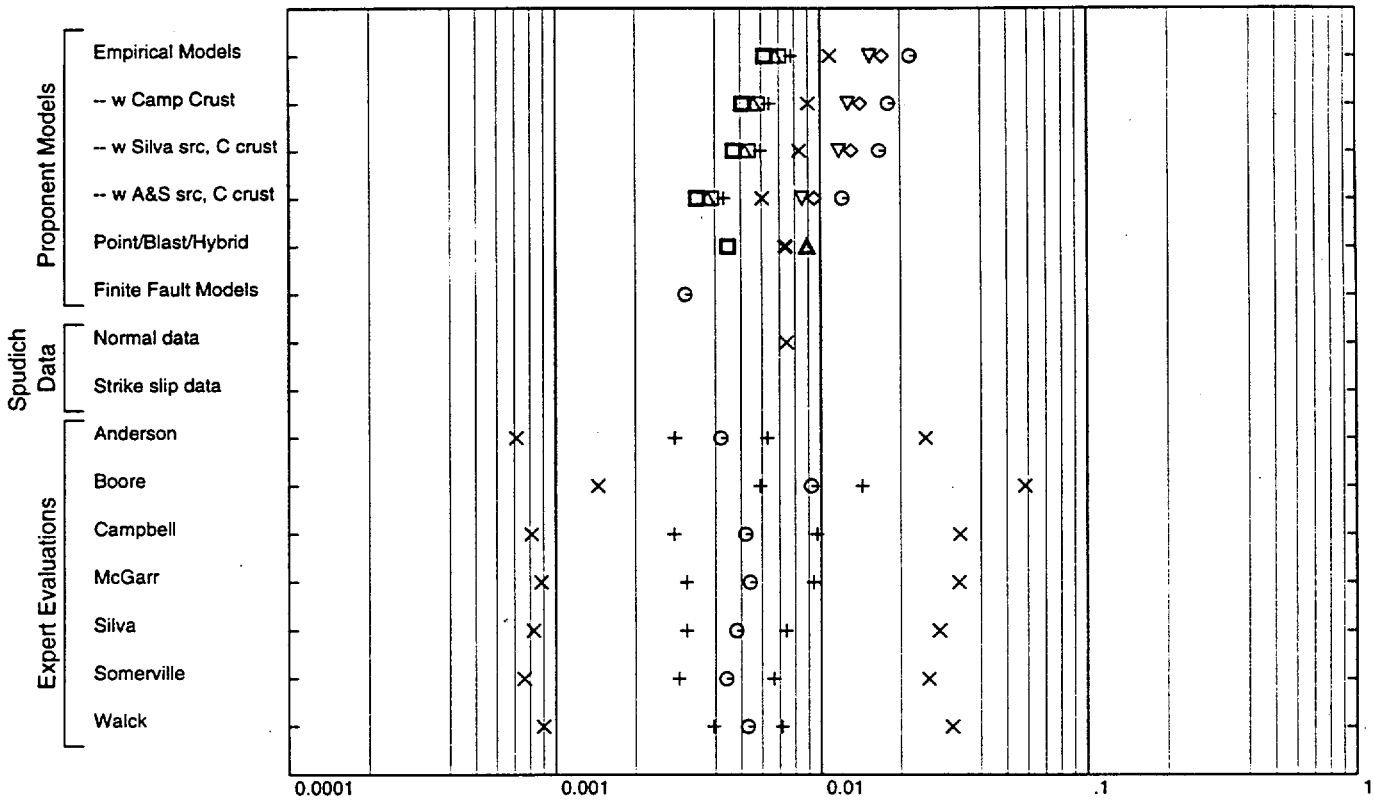
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

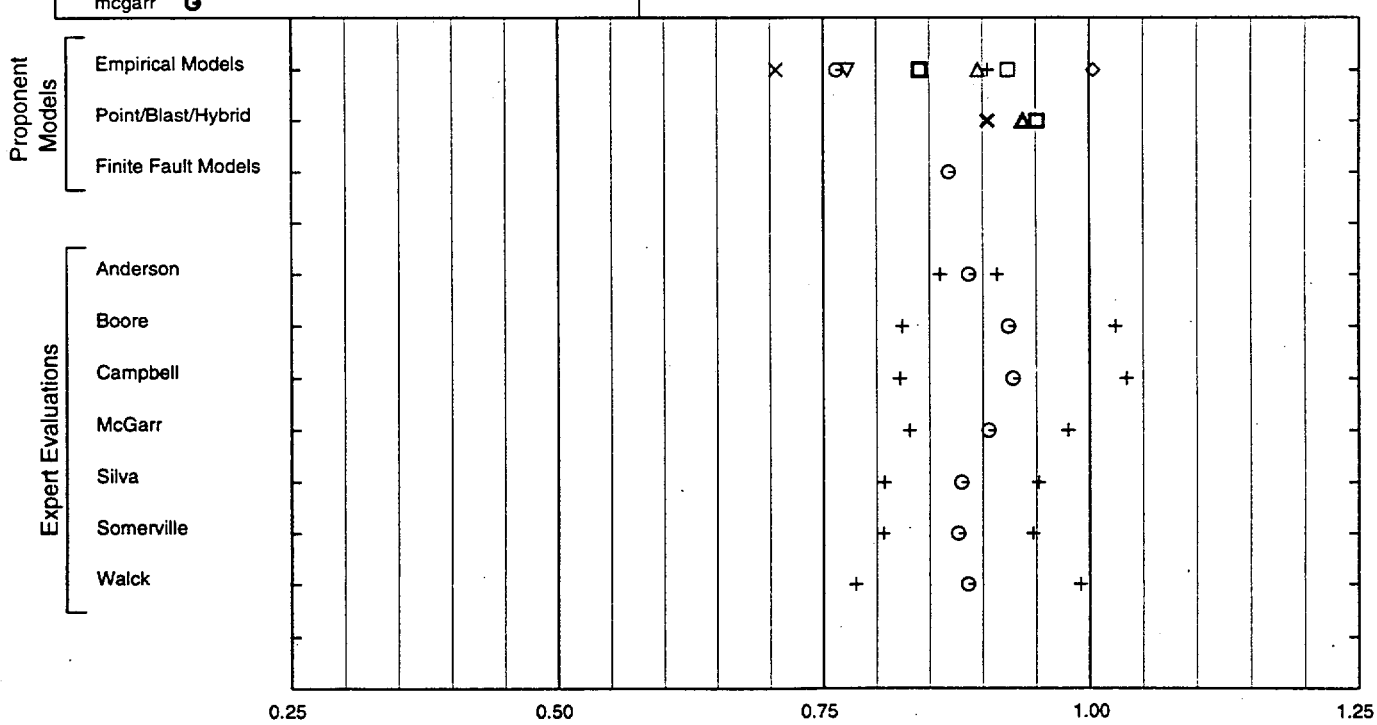
case 3, M= 5.0, deep, xd= 5 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

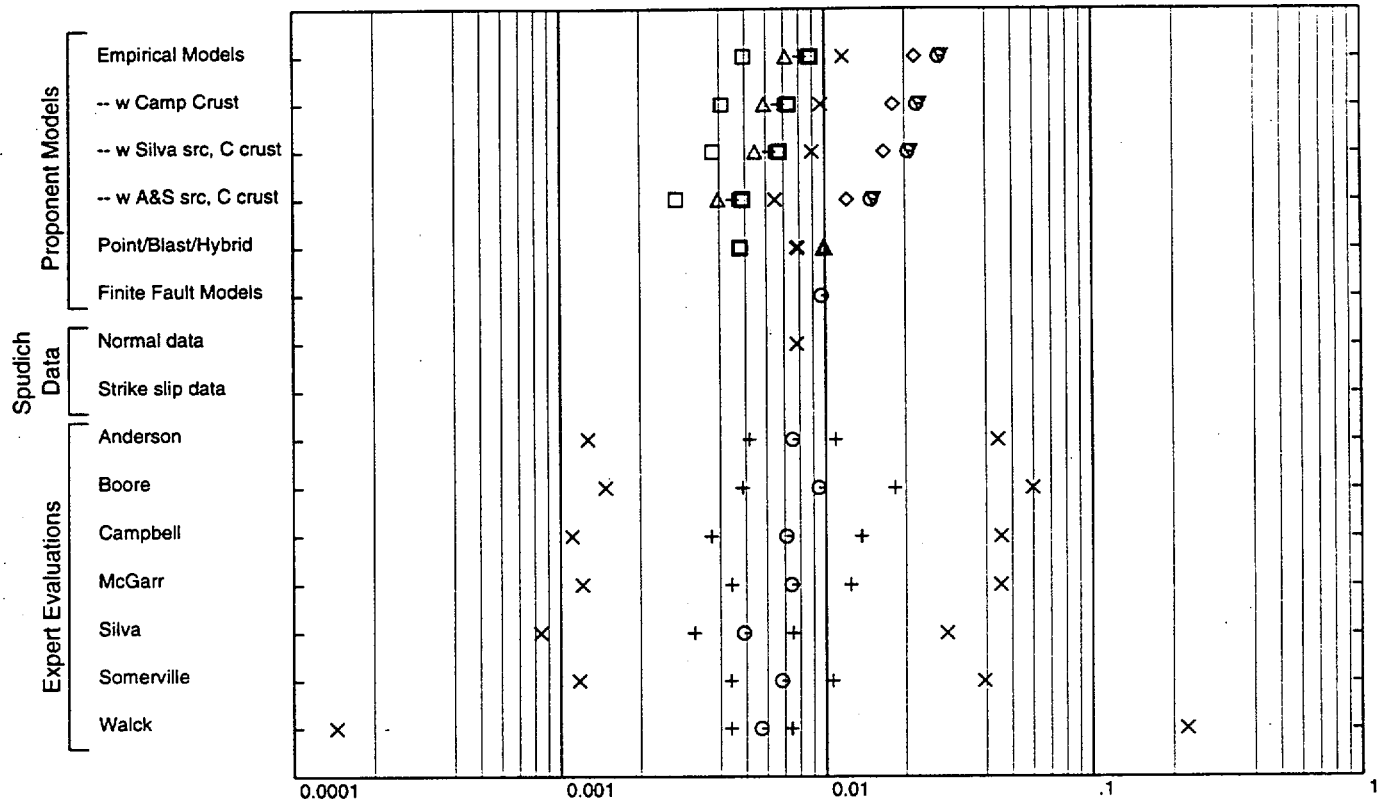
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

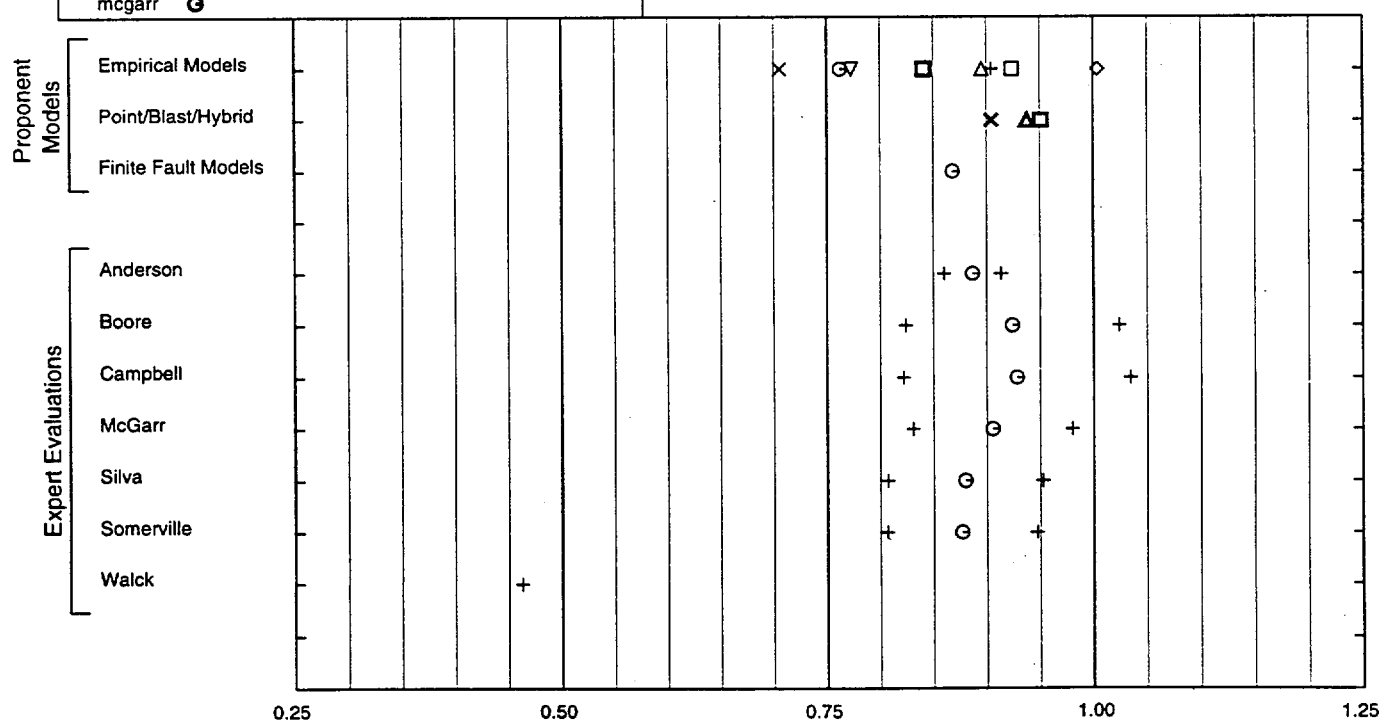
case 4, M= 5.0, deep, xd= 5 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

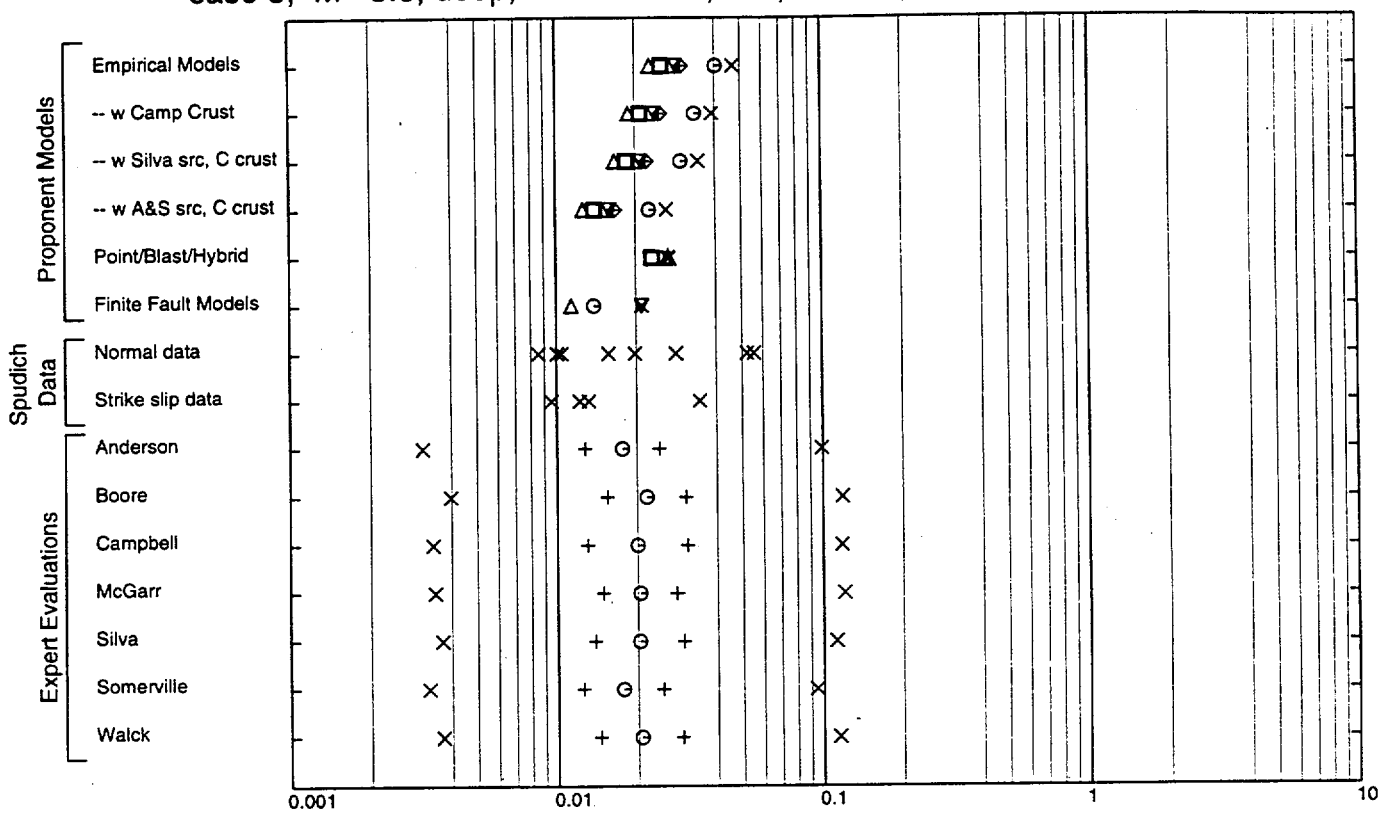
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

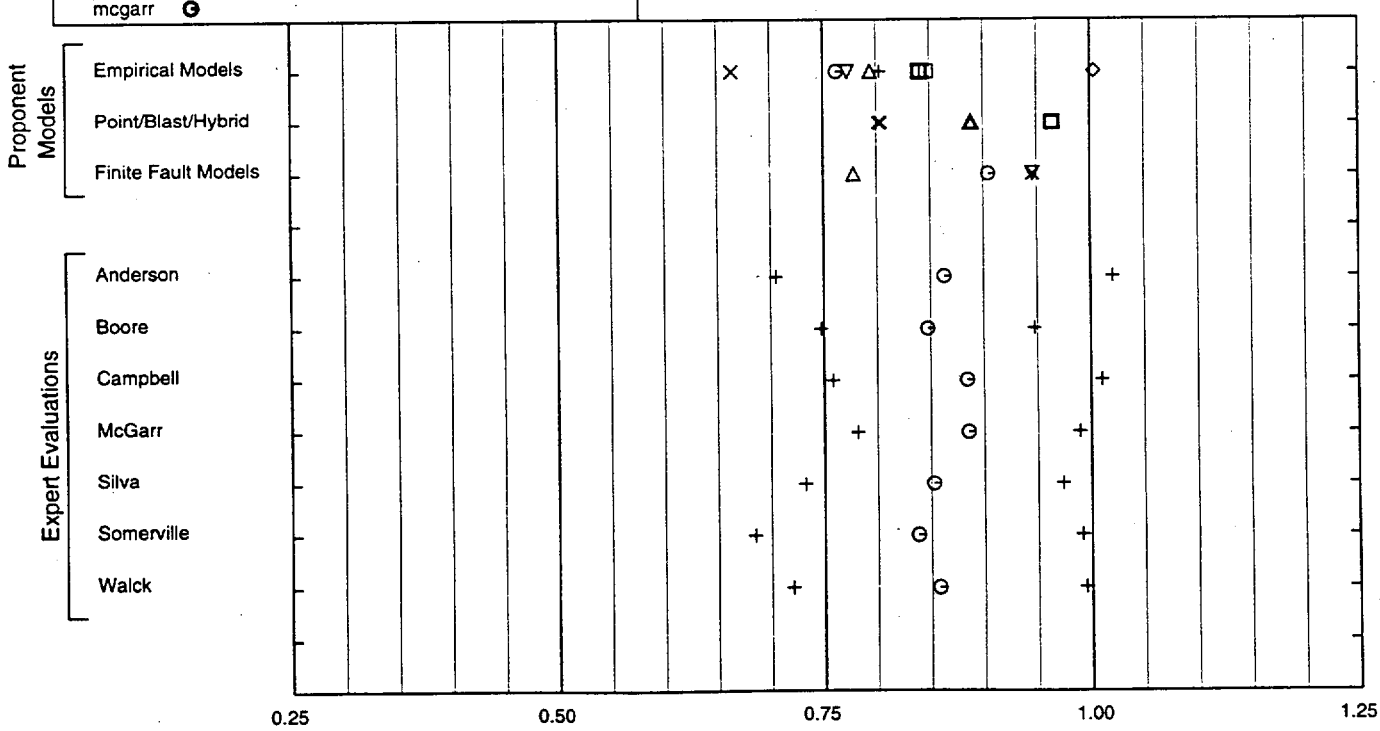
case 5, M= 5.8, deep, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

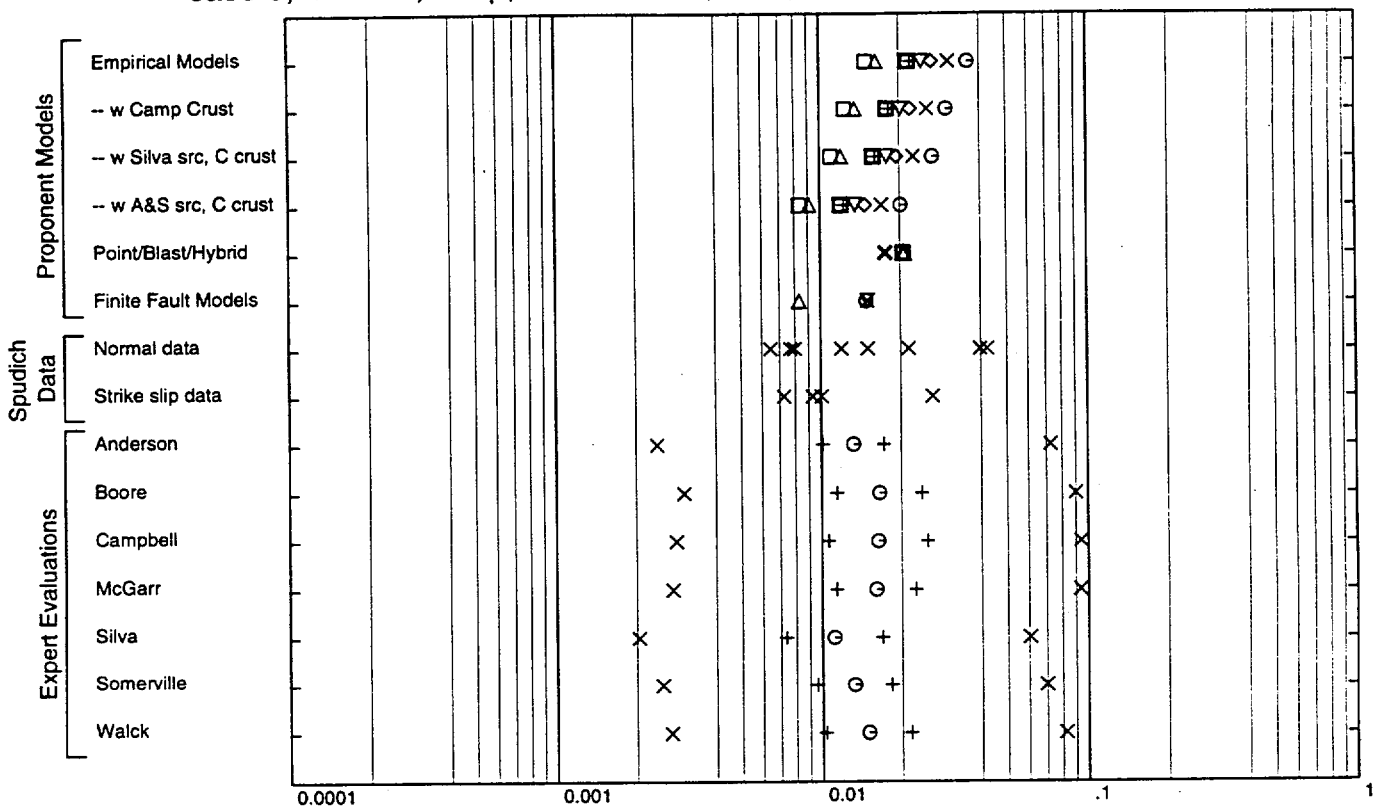
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

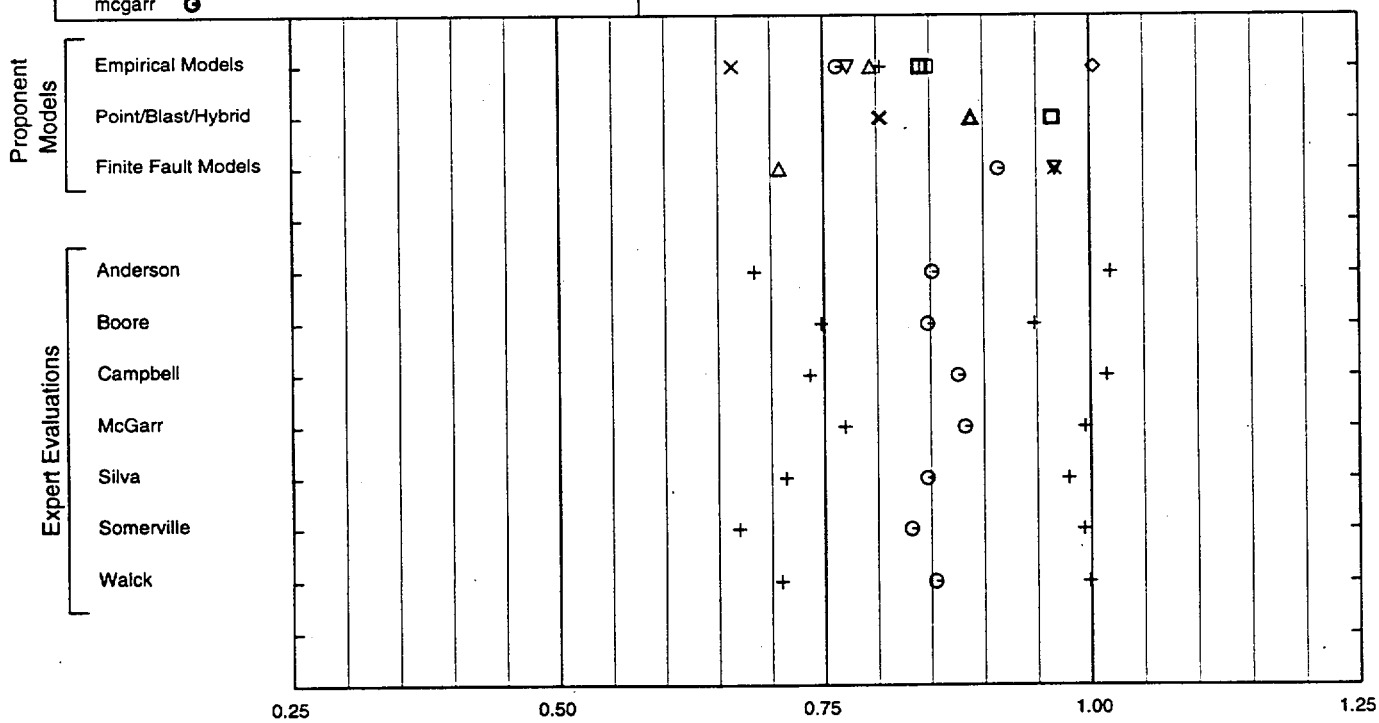
case 6, M= 5.8, deep, xd= 20 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

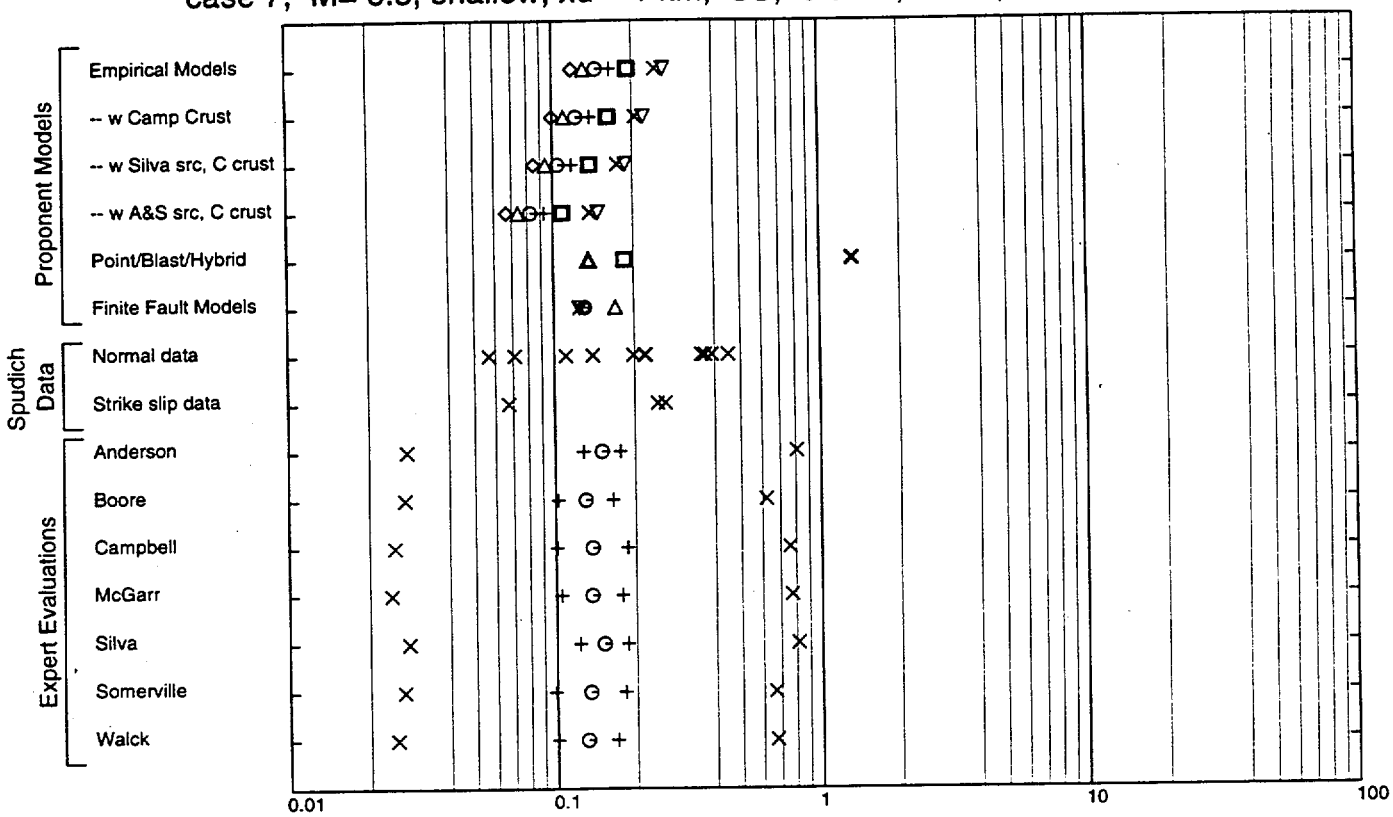
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

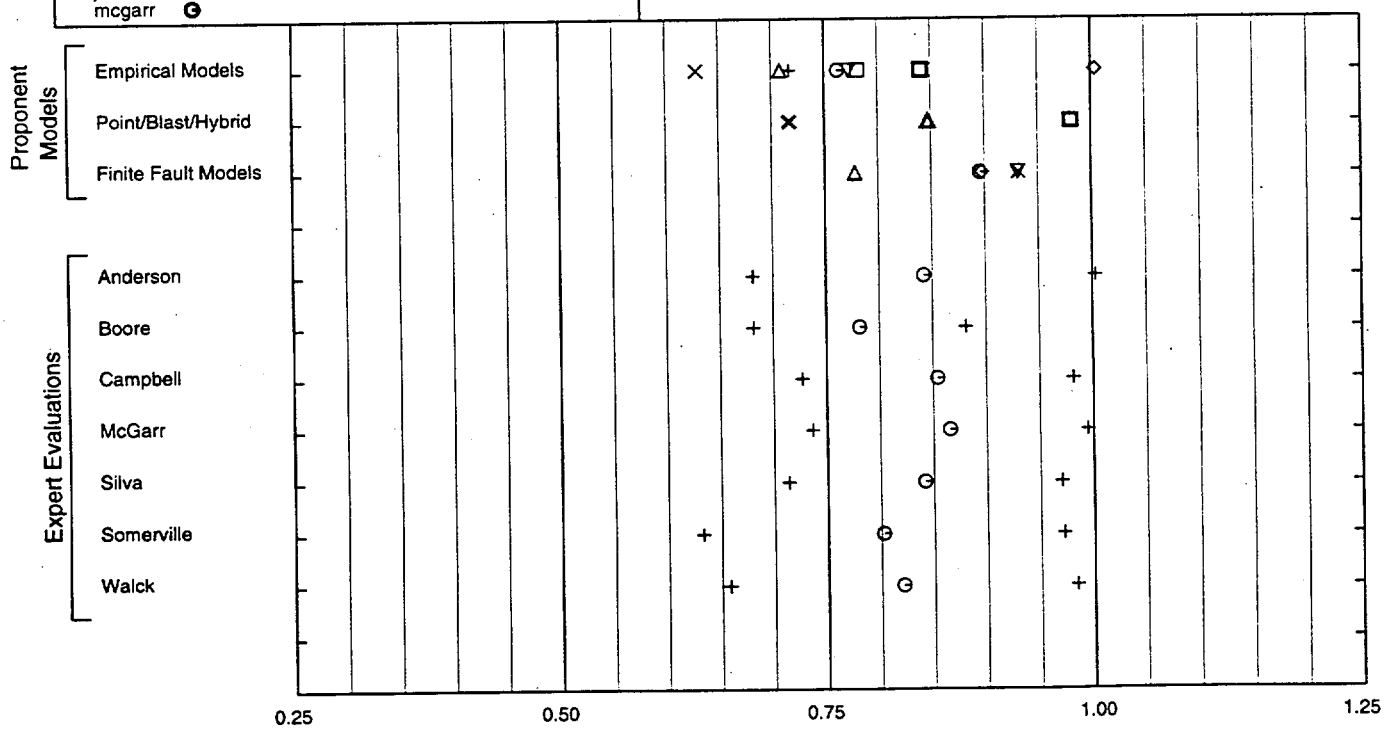
case 7, M= 6.5, shallow, xd= 1 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

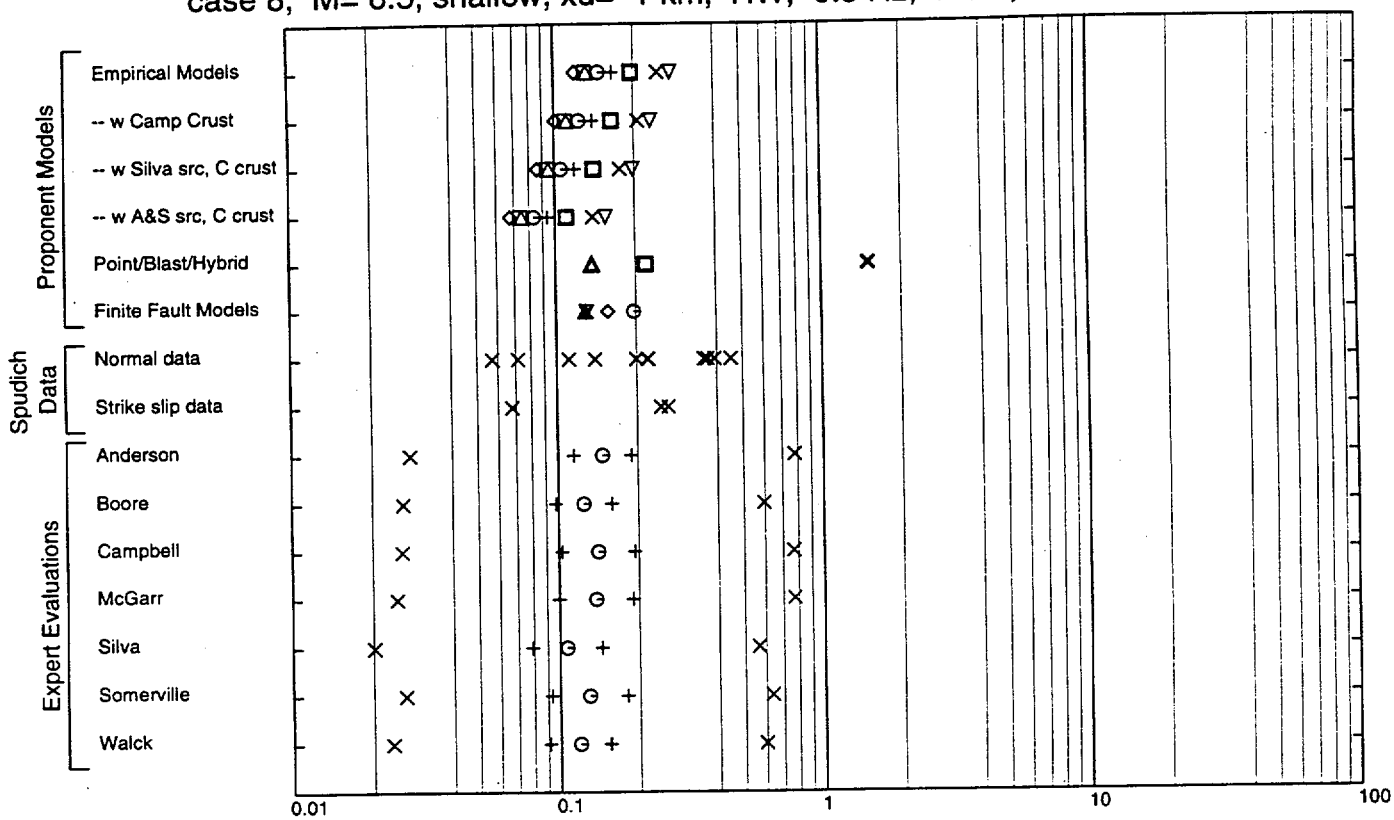
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

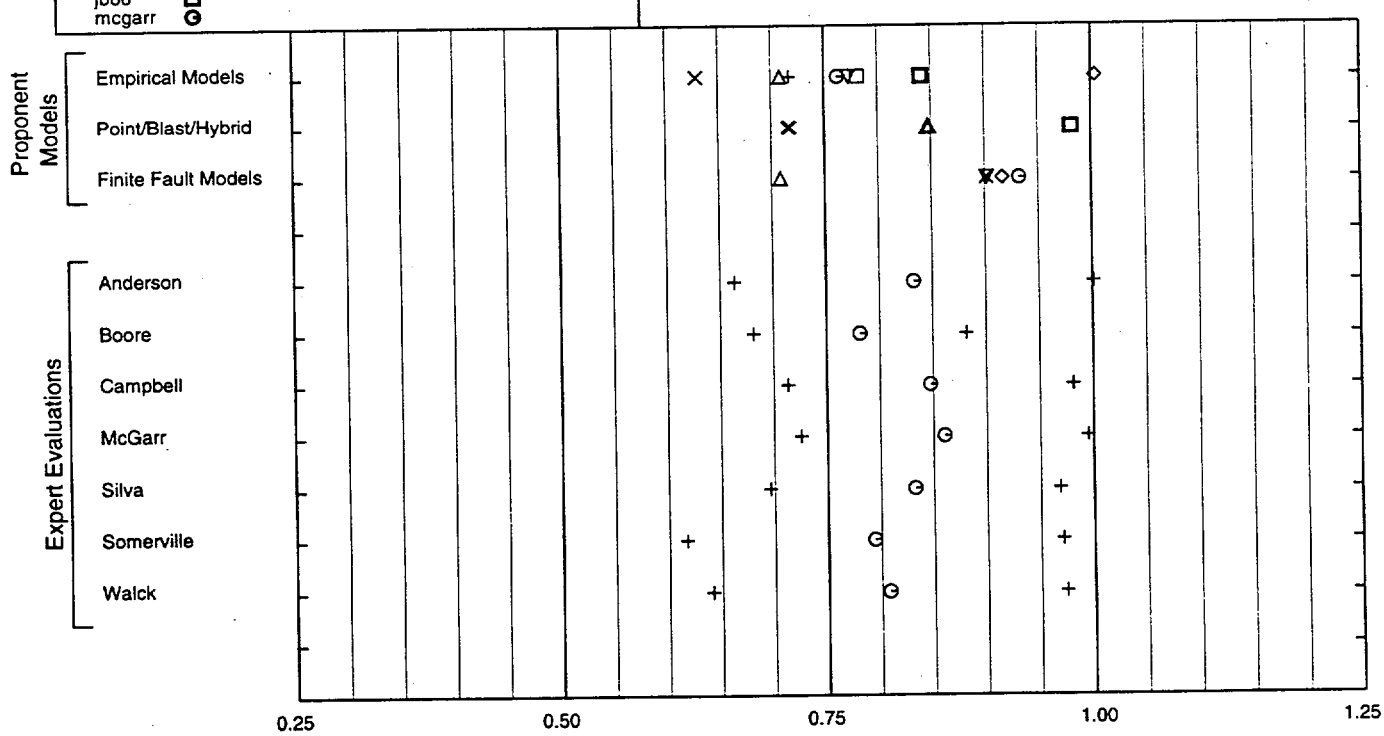
case 8, M= 6.5, shallow, xd= 1 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

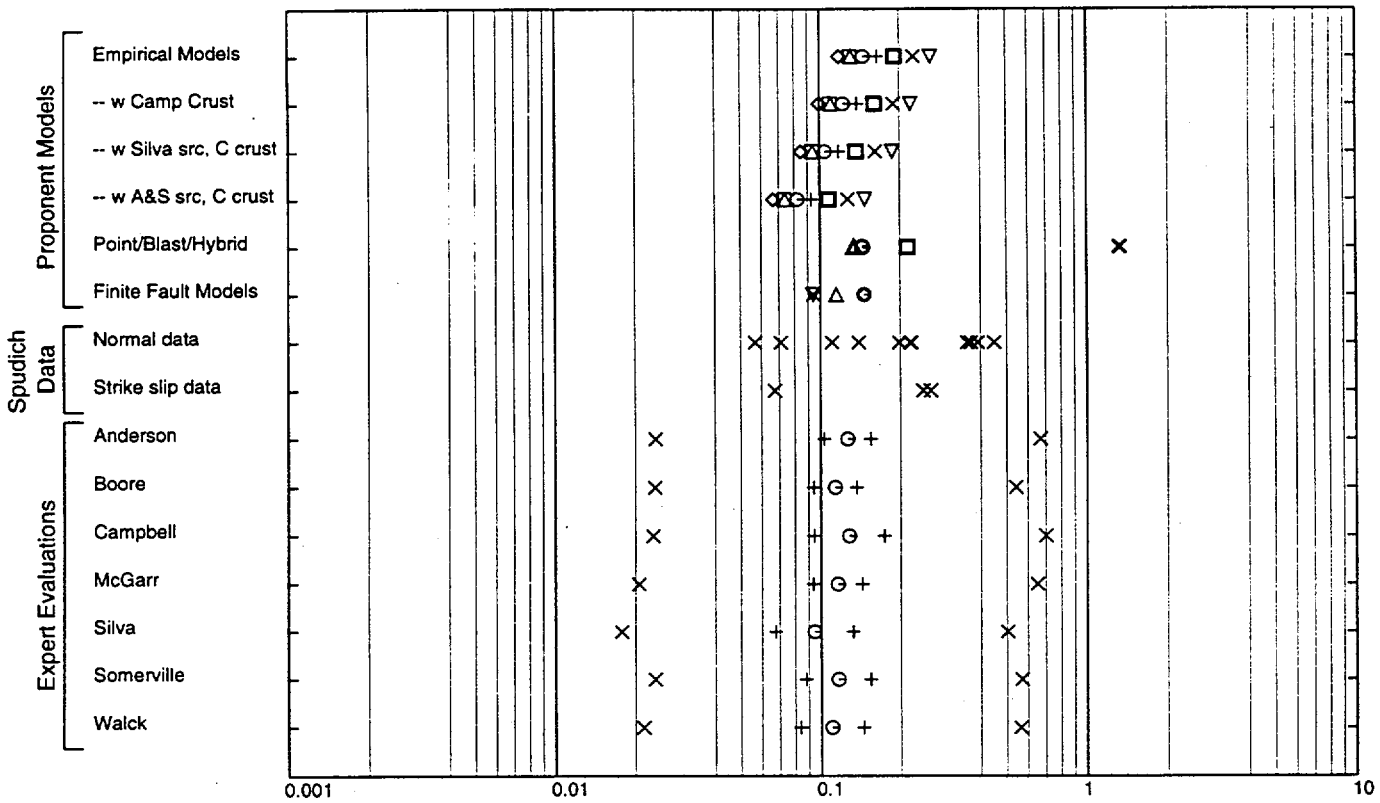
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

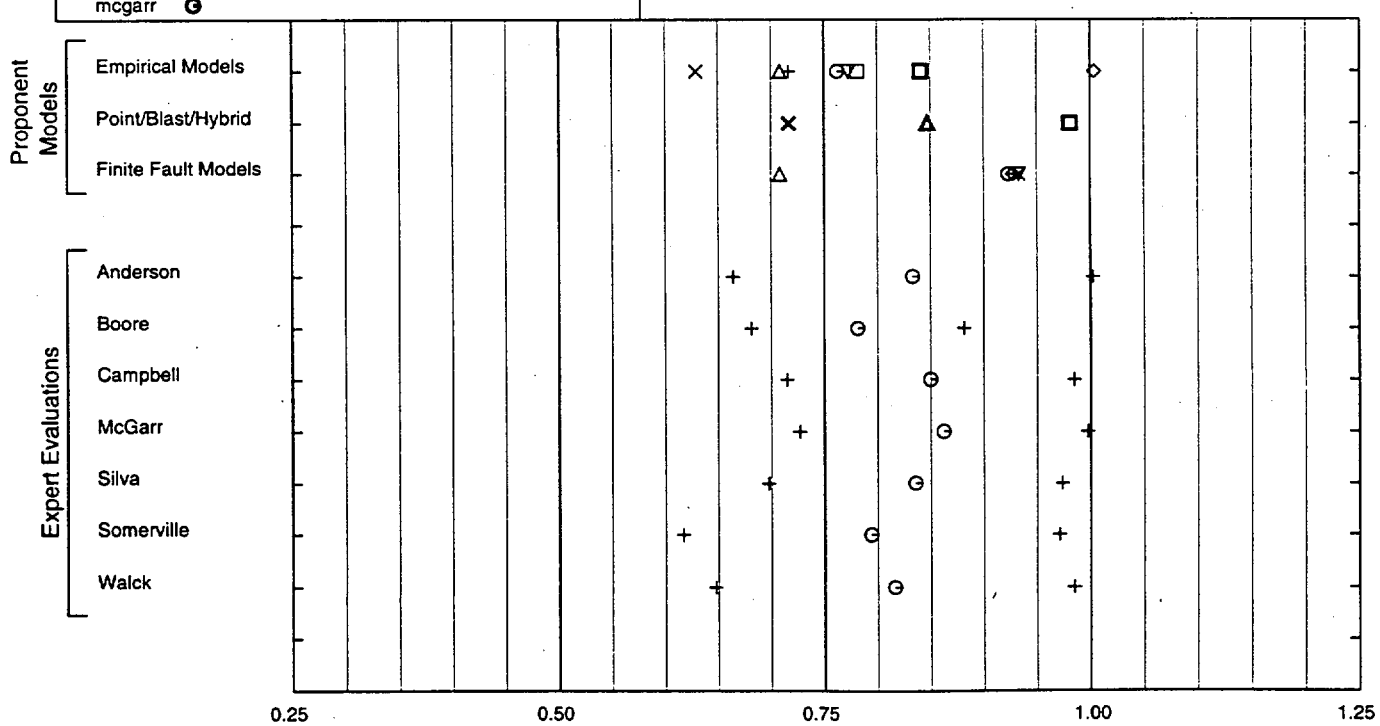
case 9, M= 6.5, shallow, xd= -1 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

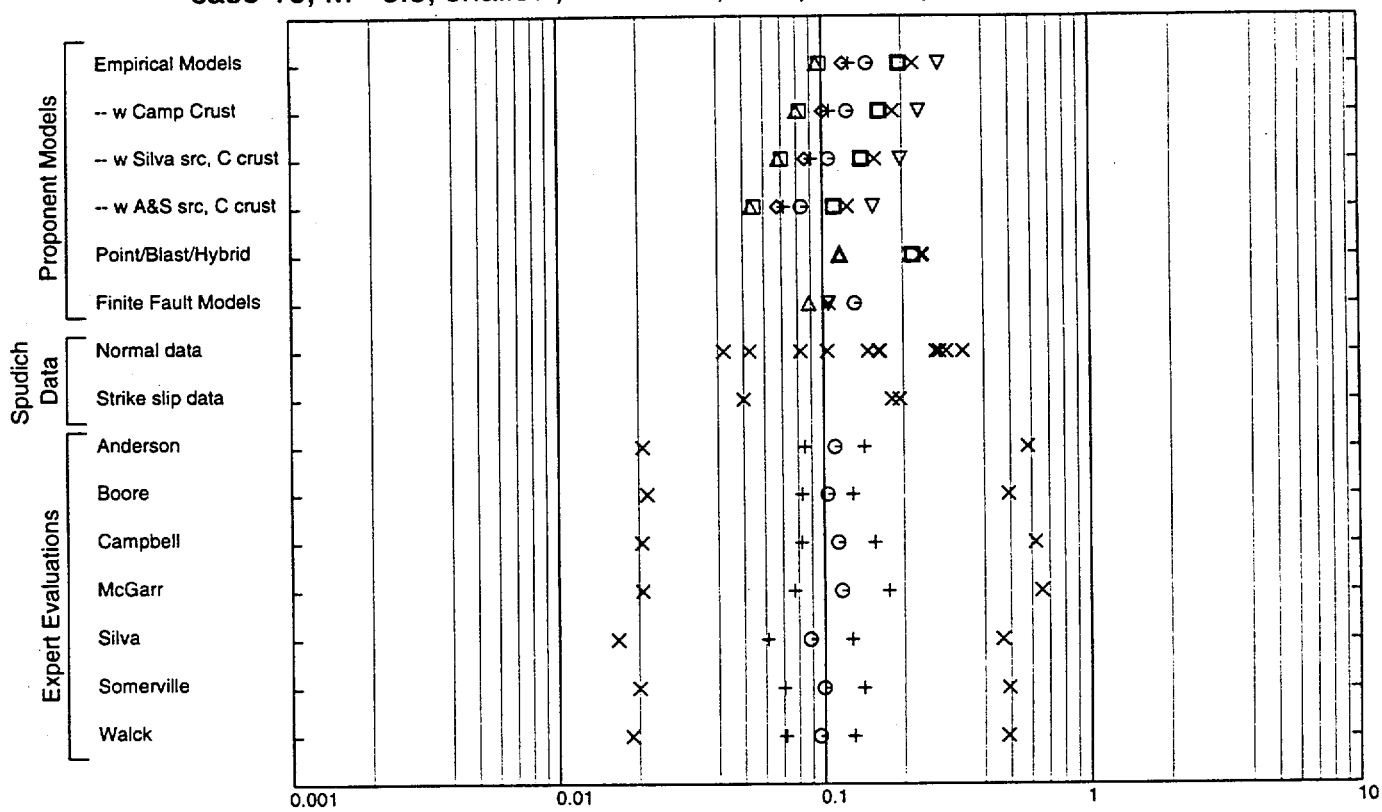
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

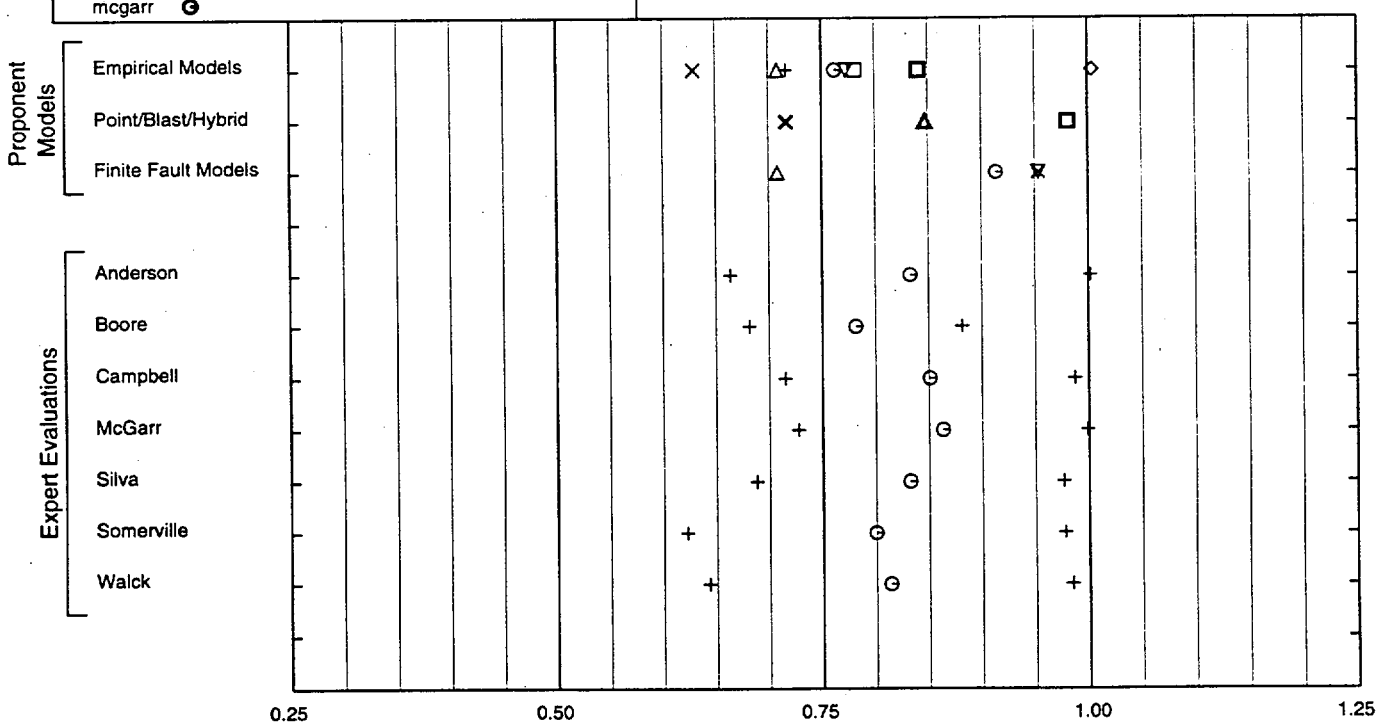
case 10, M= 6.5, shallow, xd= 5 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

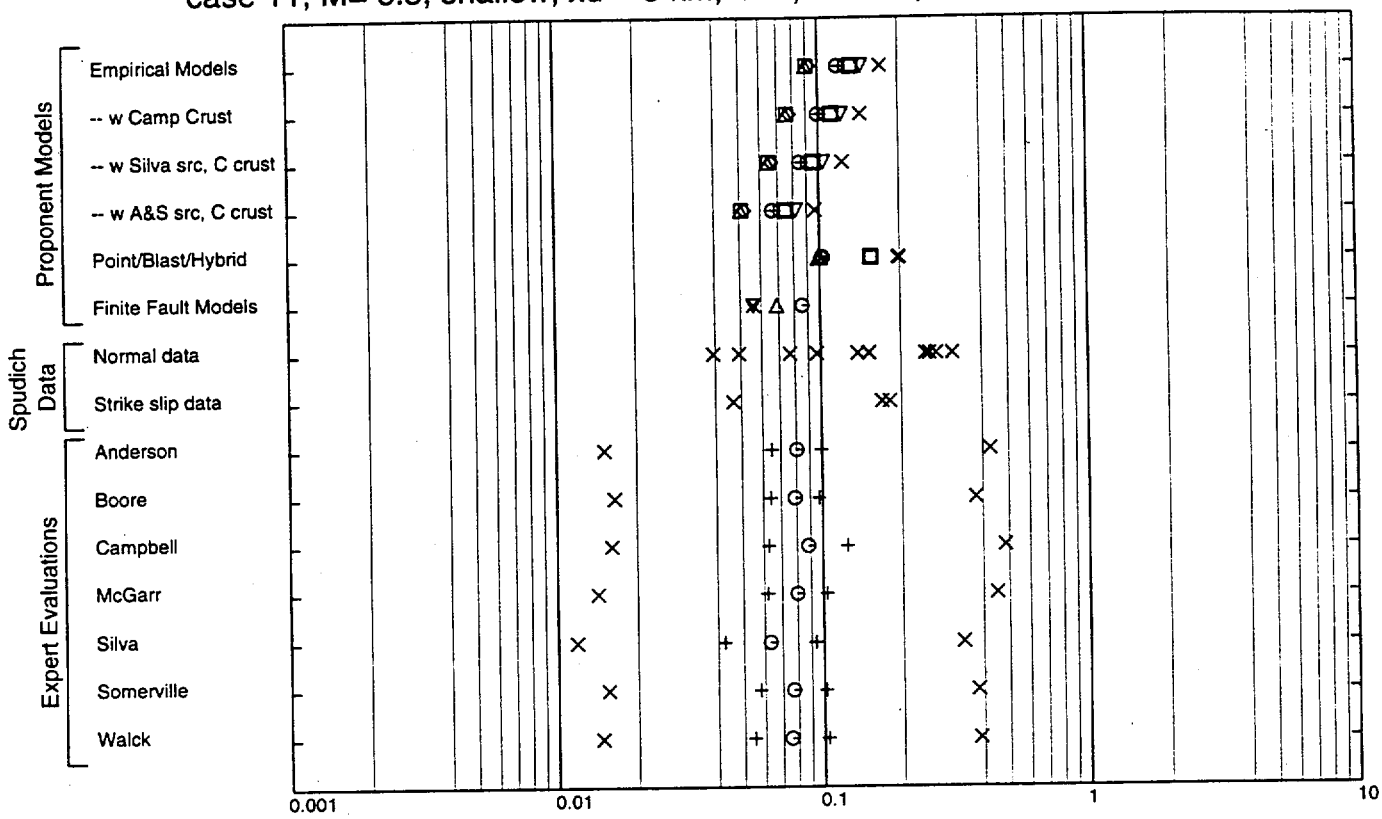
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

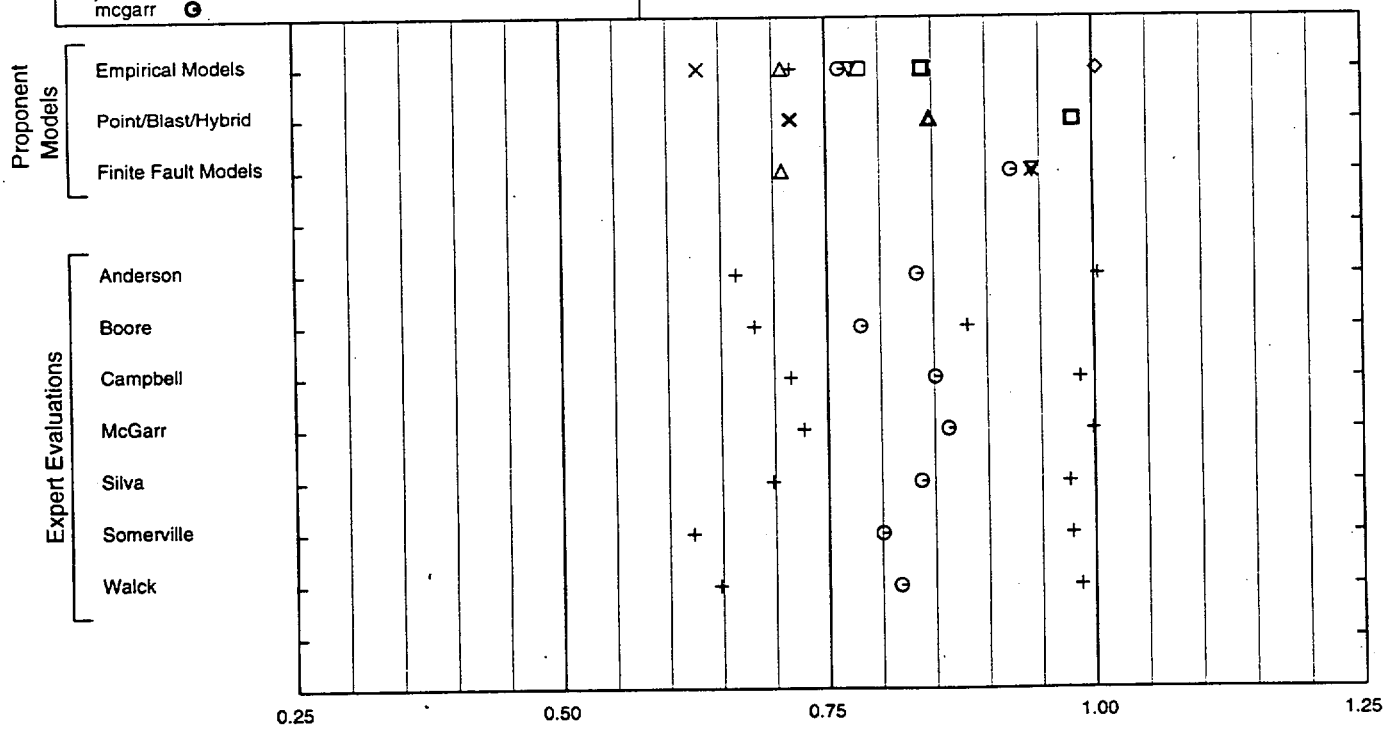
case 11, M= 6.5, shallow, xd= -5 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



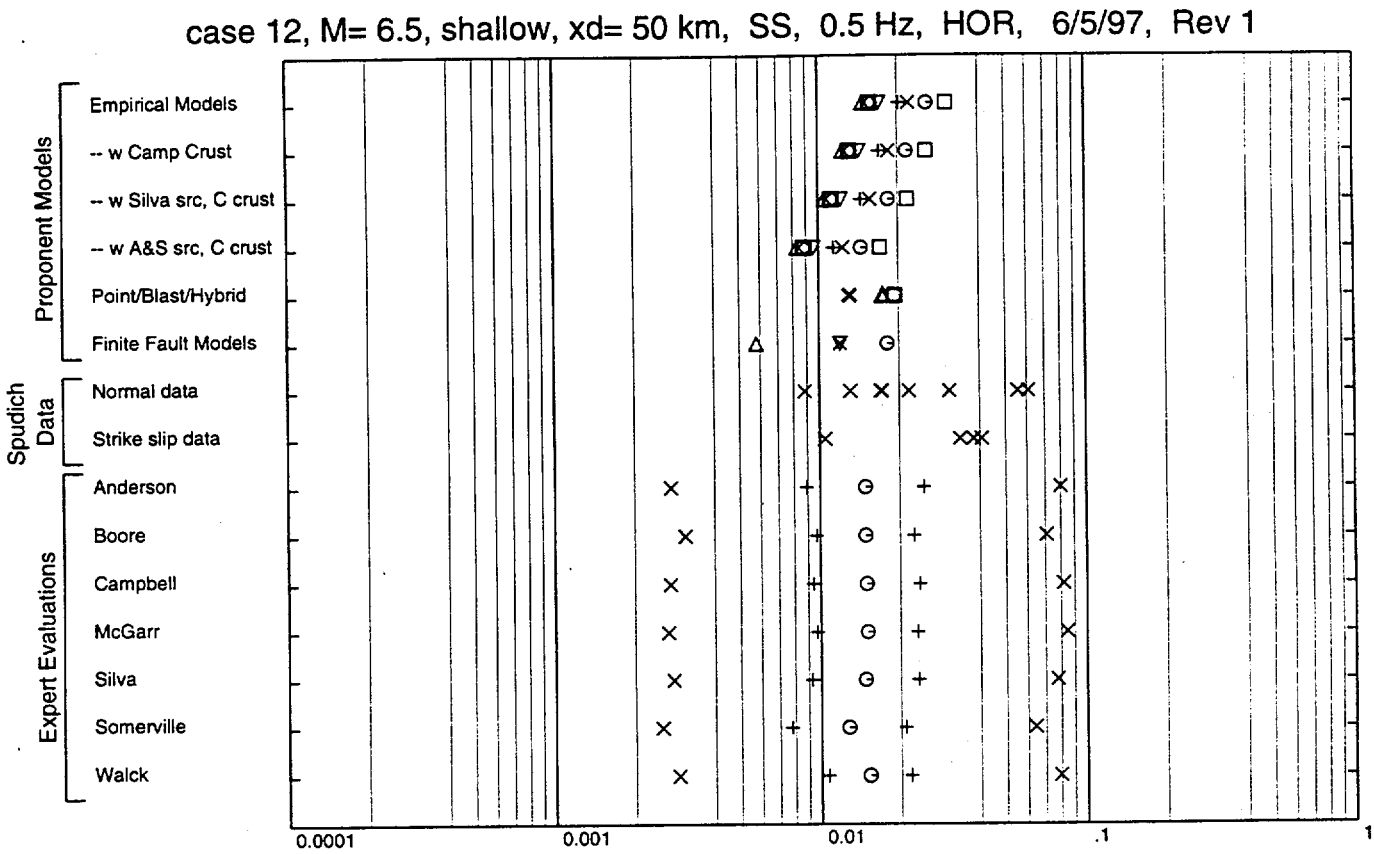
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

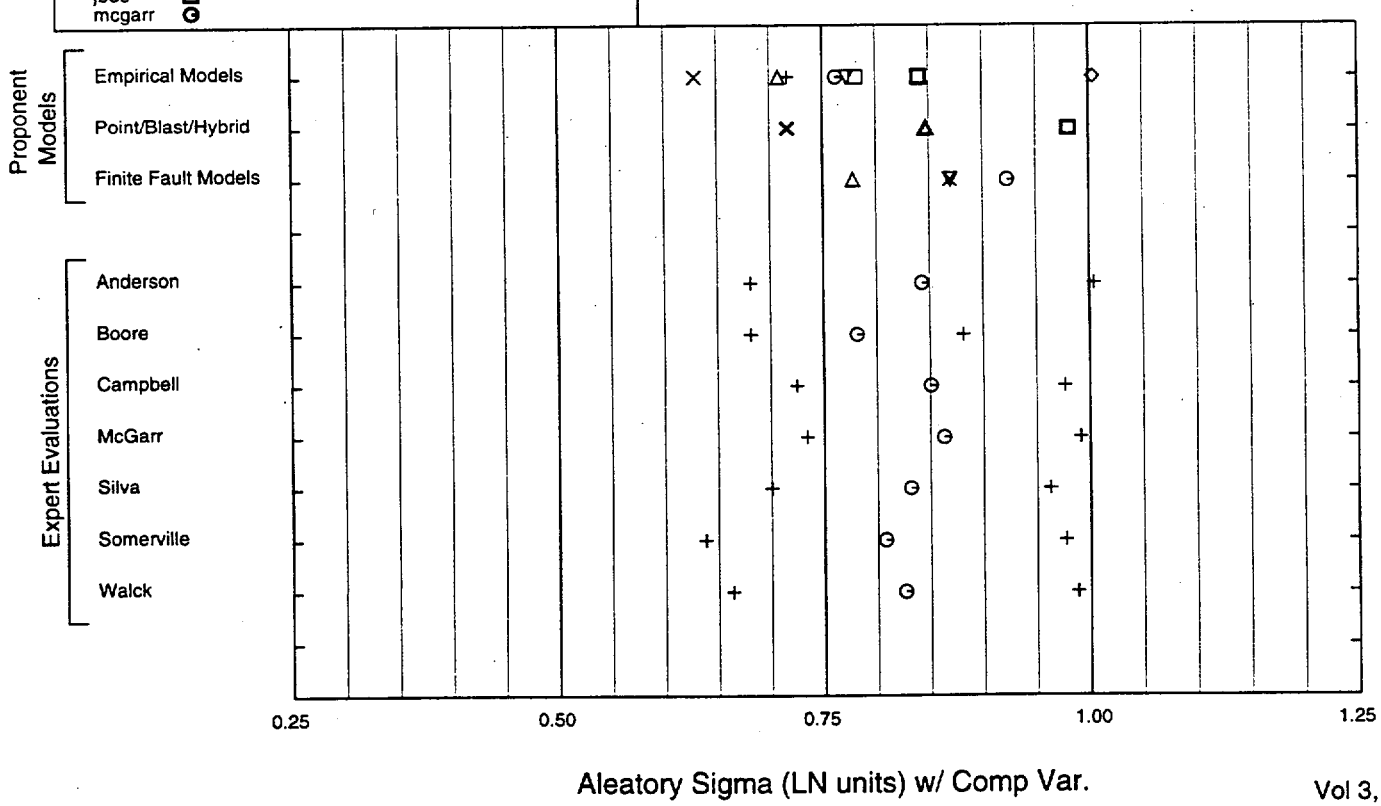


Aleatory Sigma (LN units) w/ Comp Var.

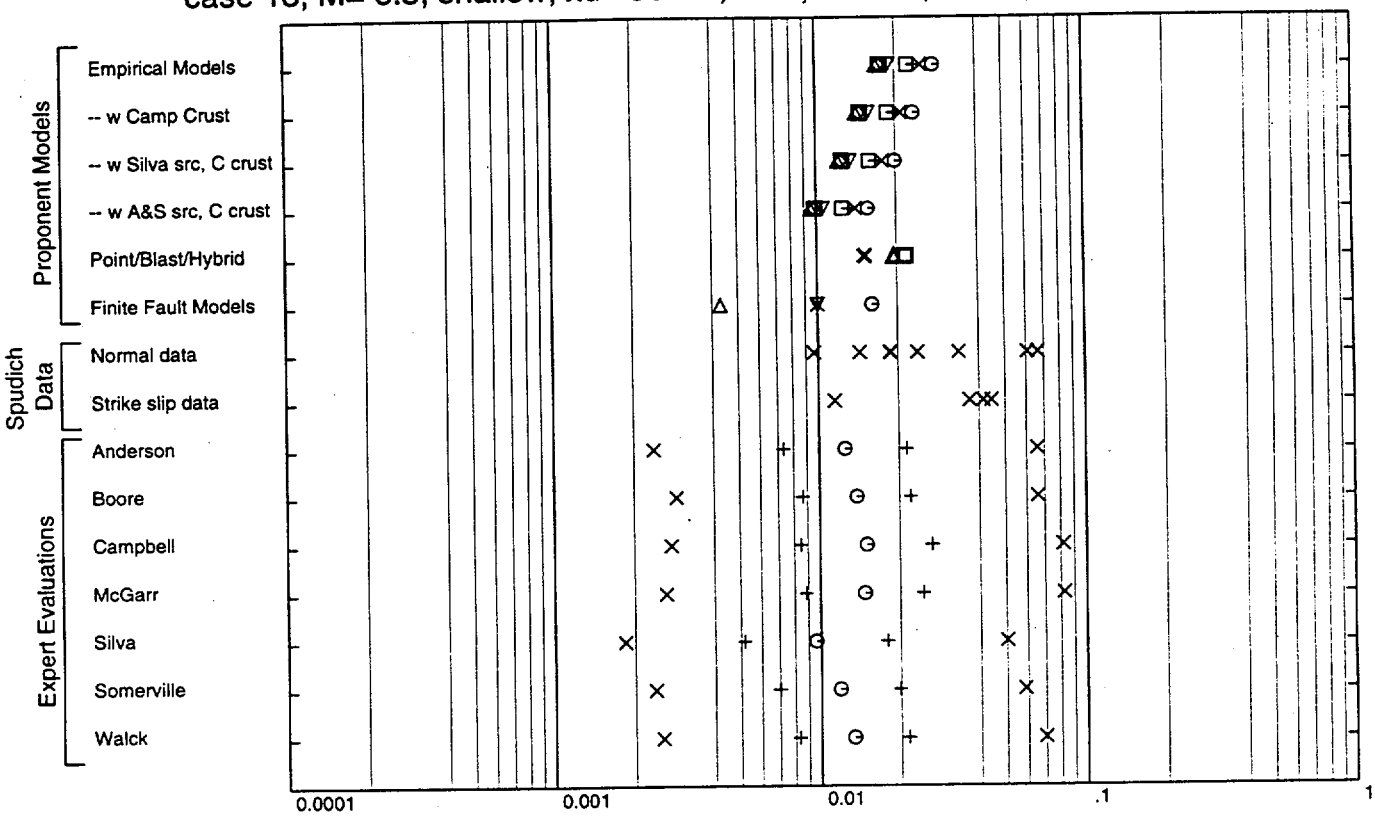


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



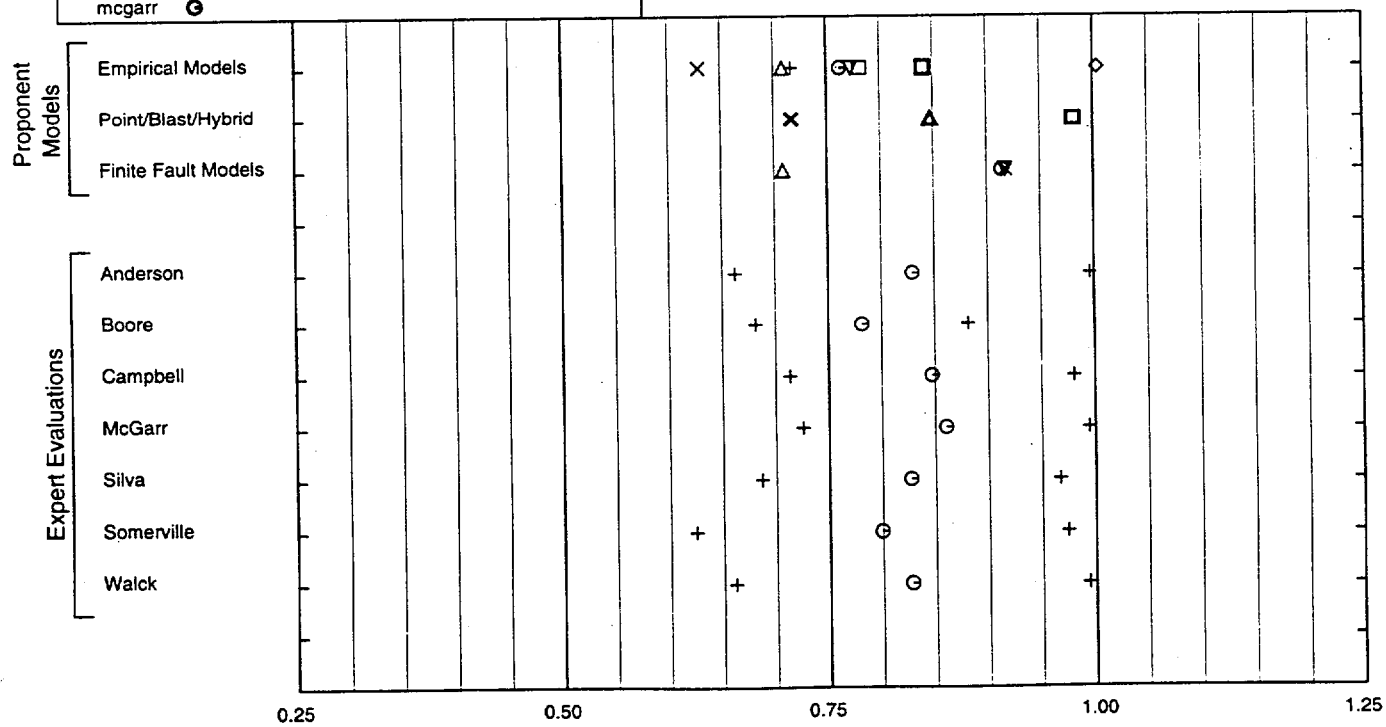
case 13, M= 6.5, shallow, xd= 50 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

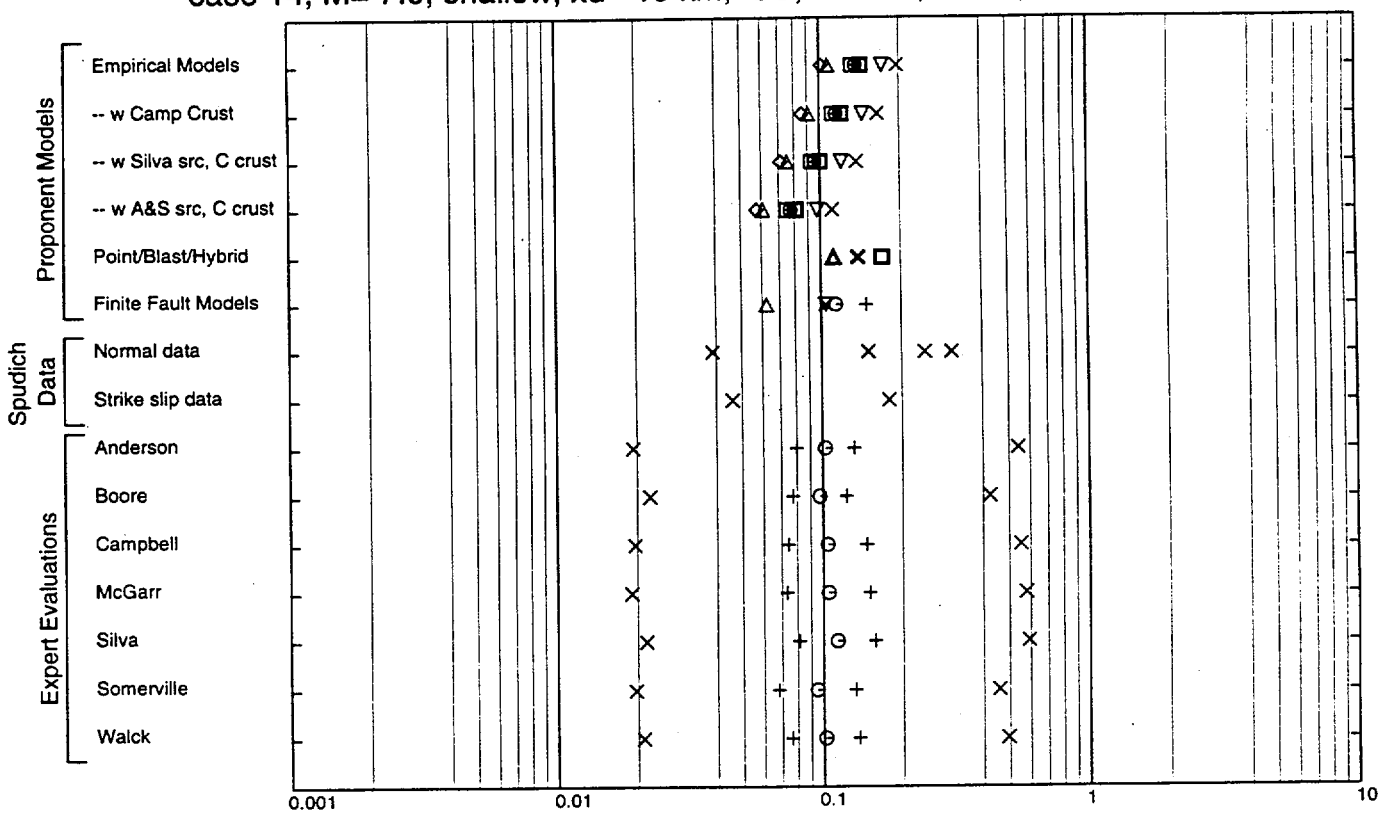
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

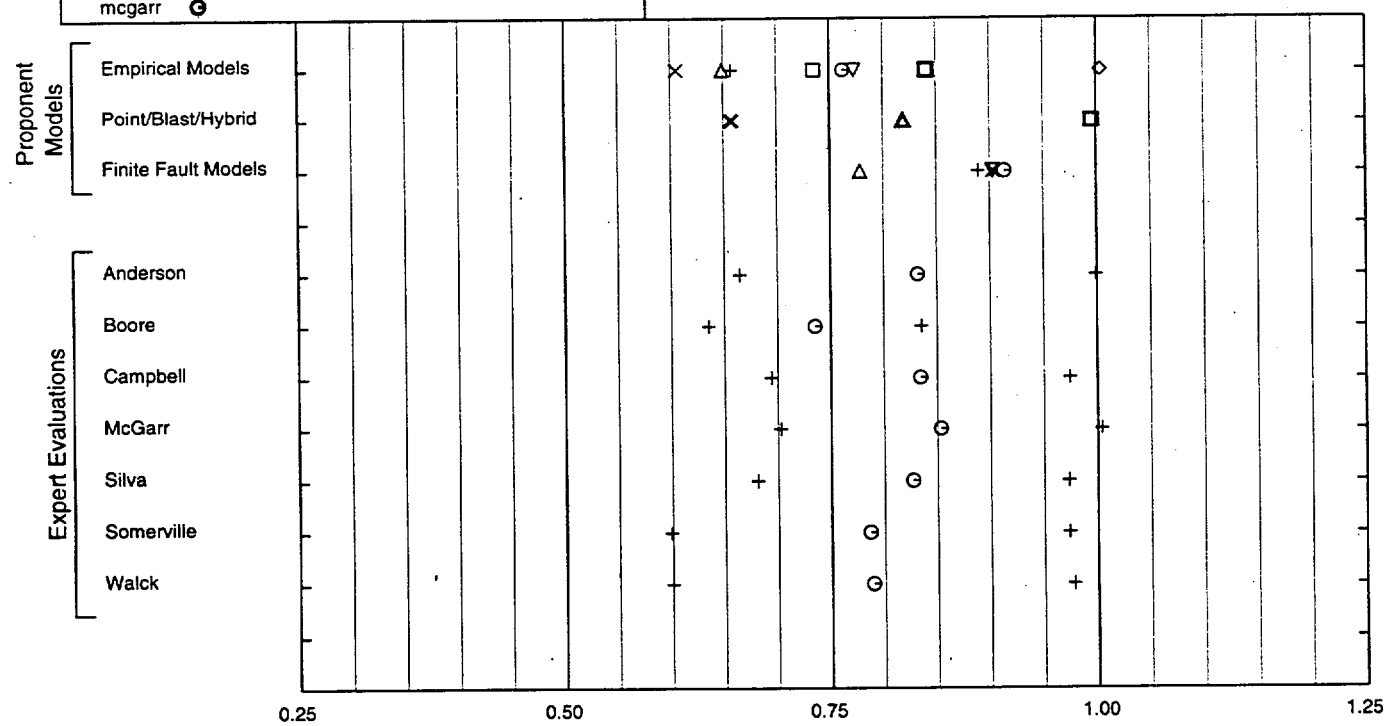
case 14, M= 7.0, shallow, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

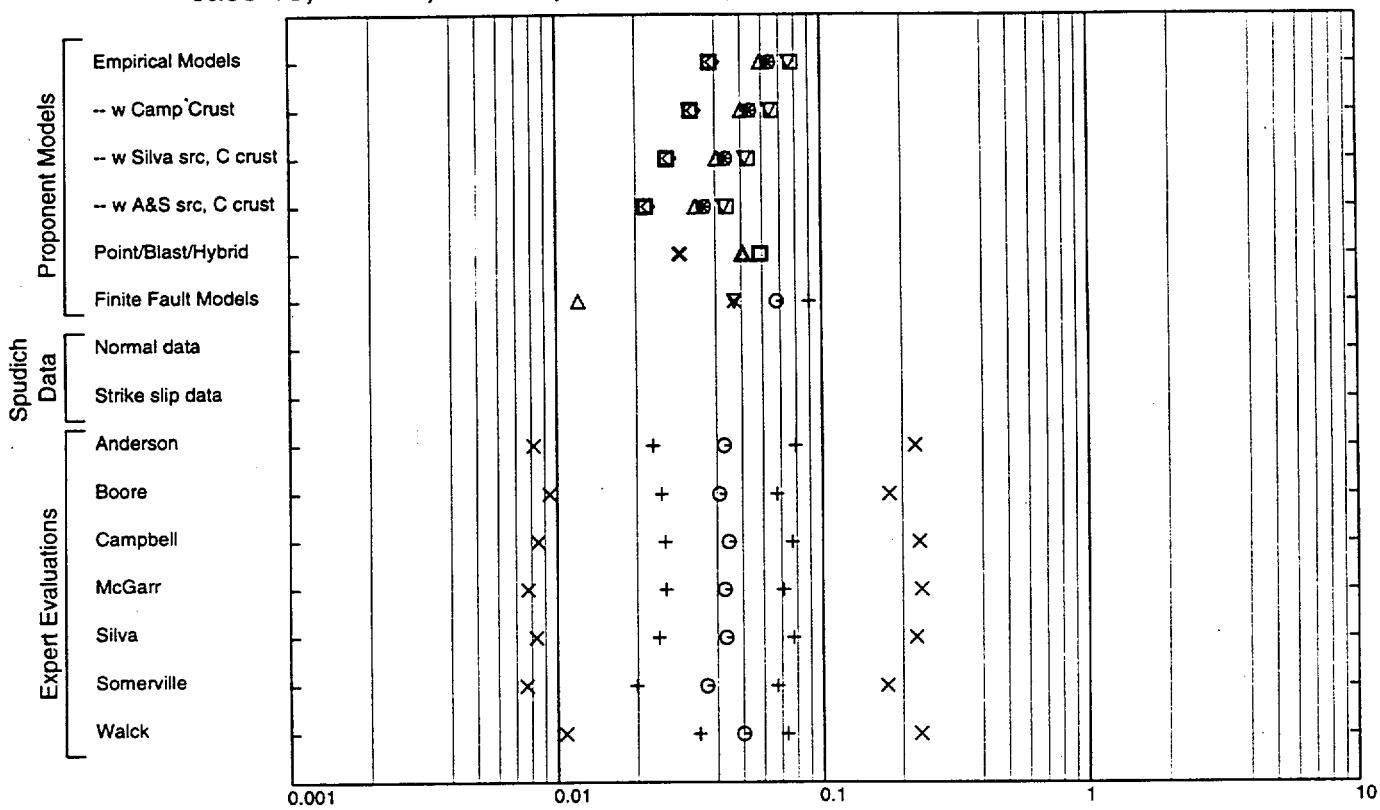
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



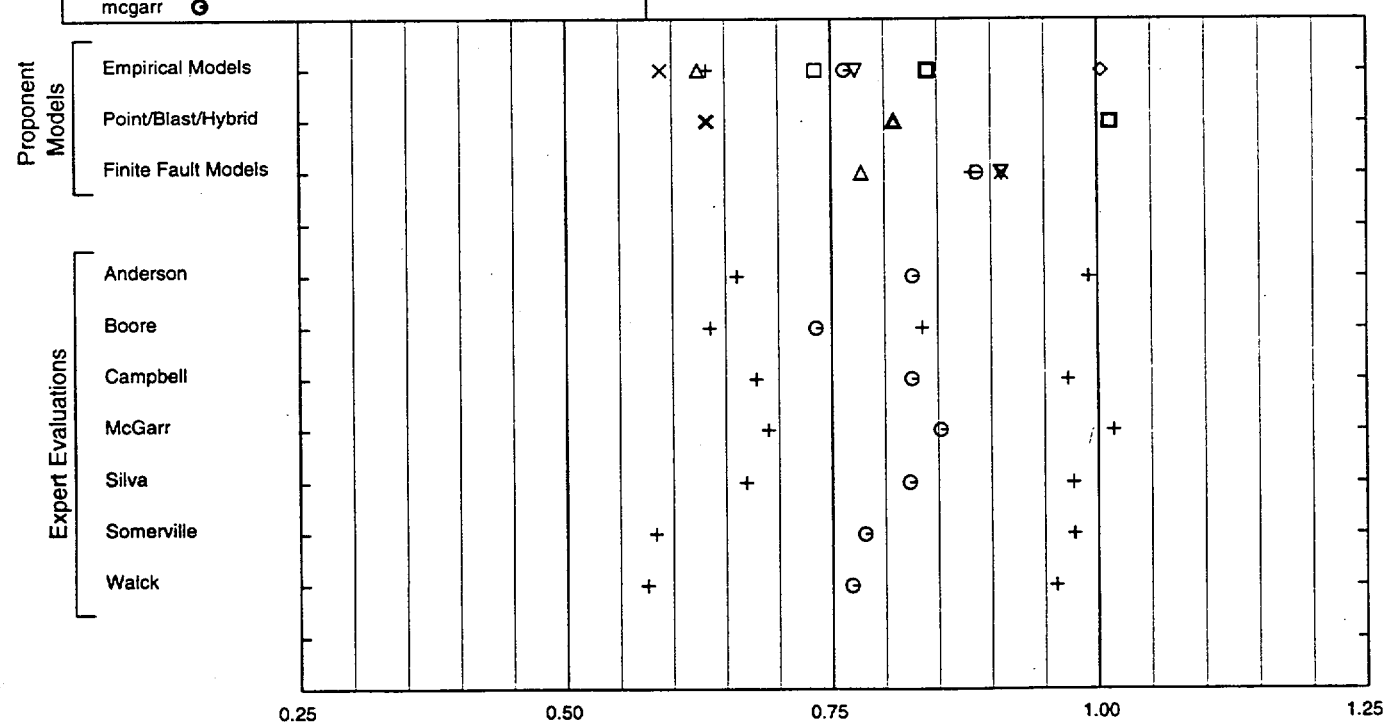
Aleatory Sigma (LN units) w/ Comp Var.

case 15, M= 7.5, shallow, xd= 50 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1

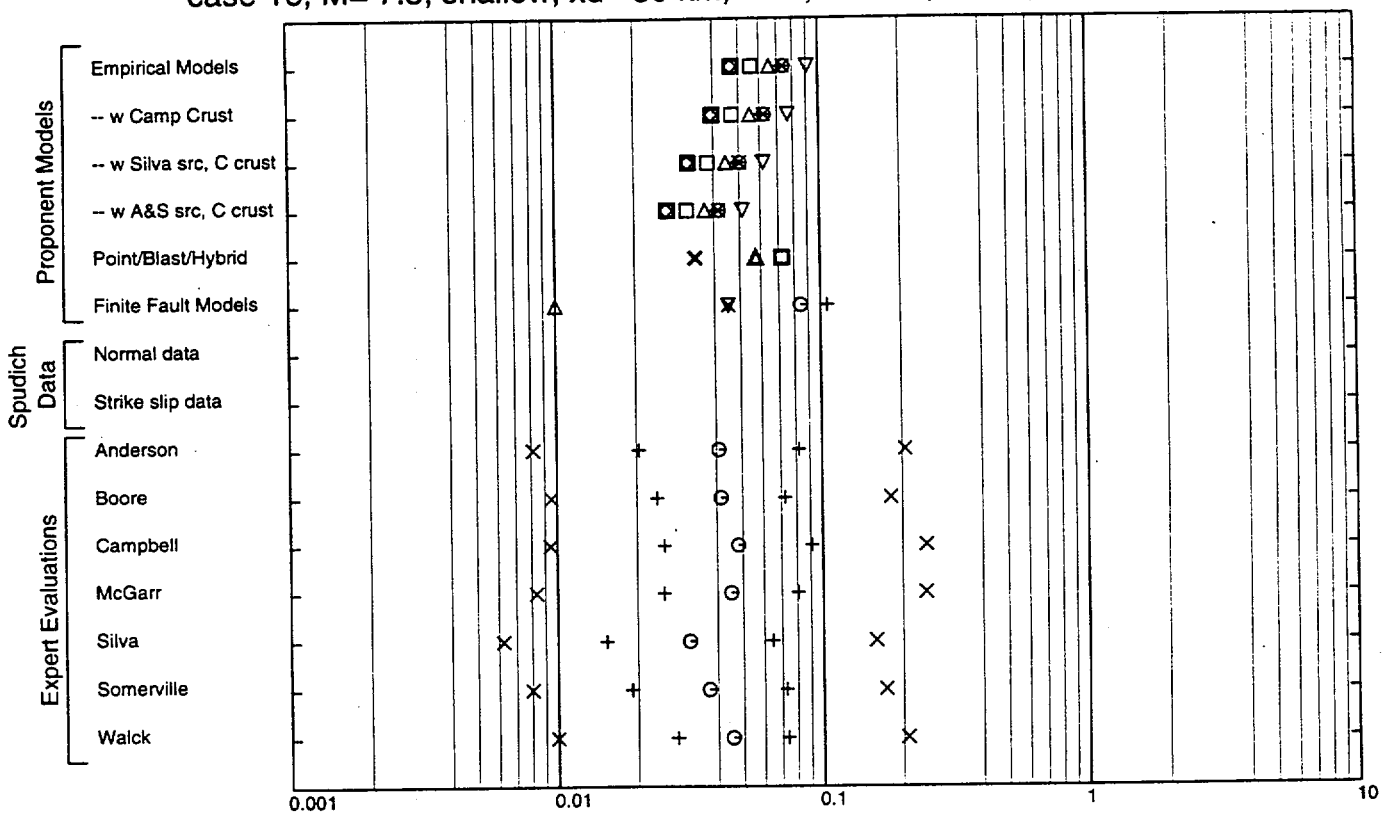


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



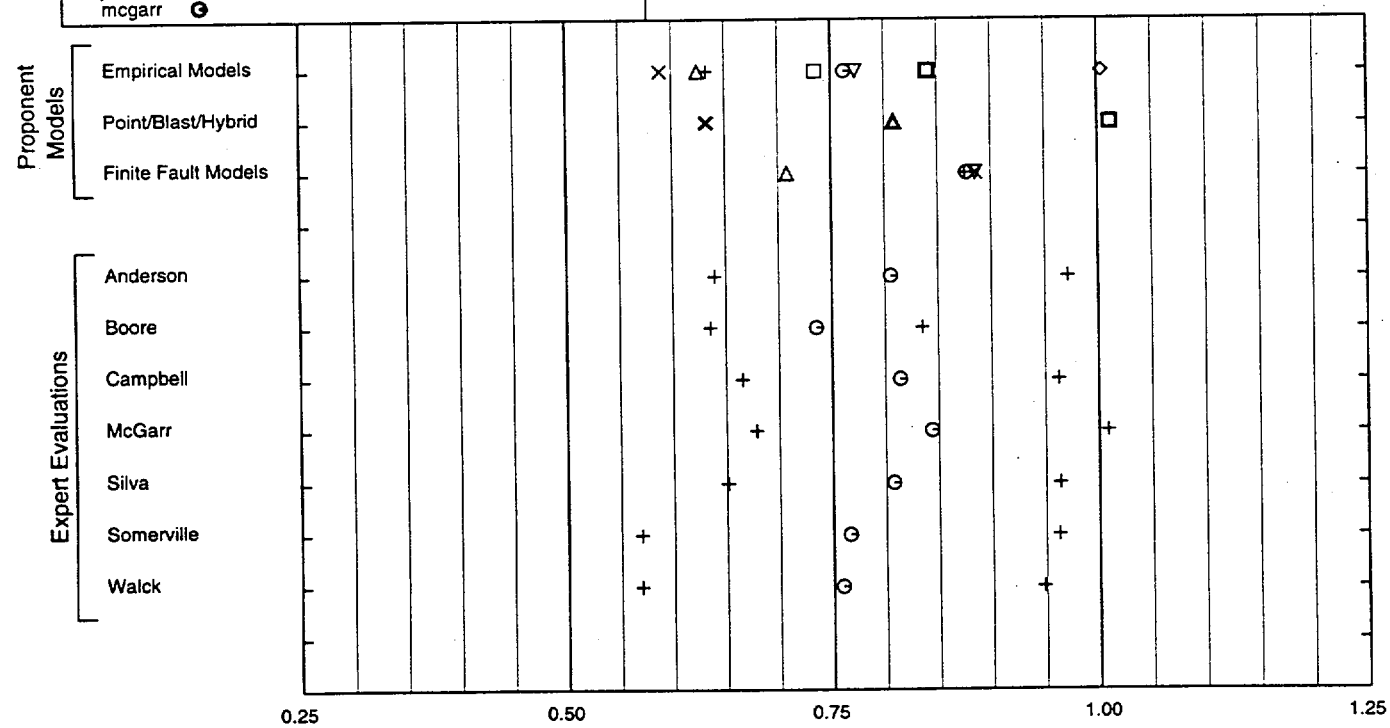
case 16, M= 7.5, shallow, xd= 50 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

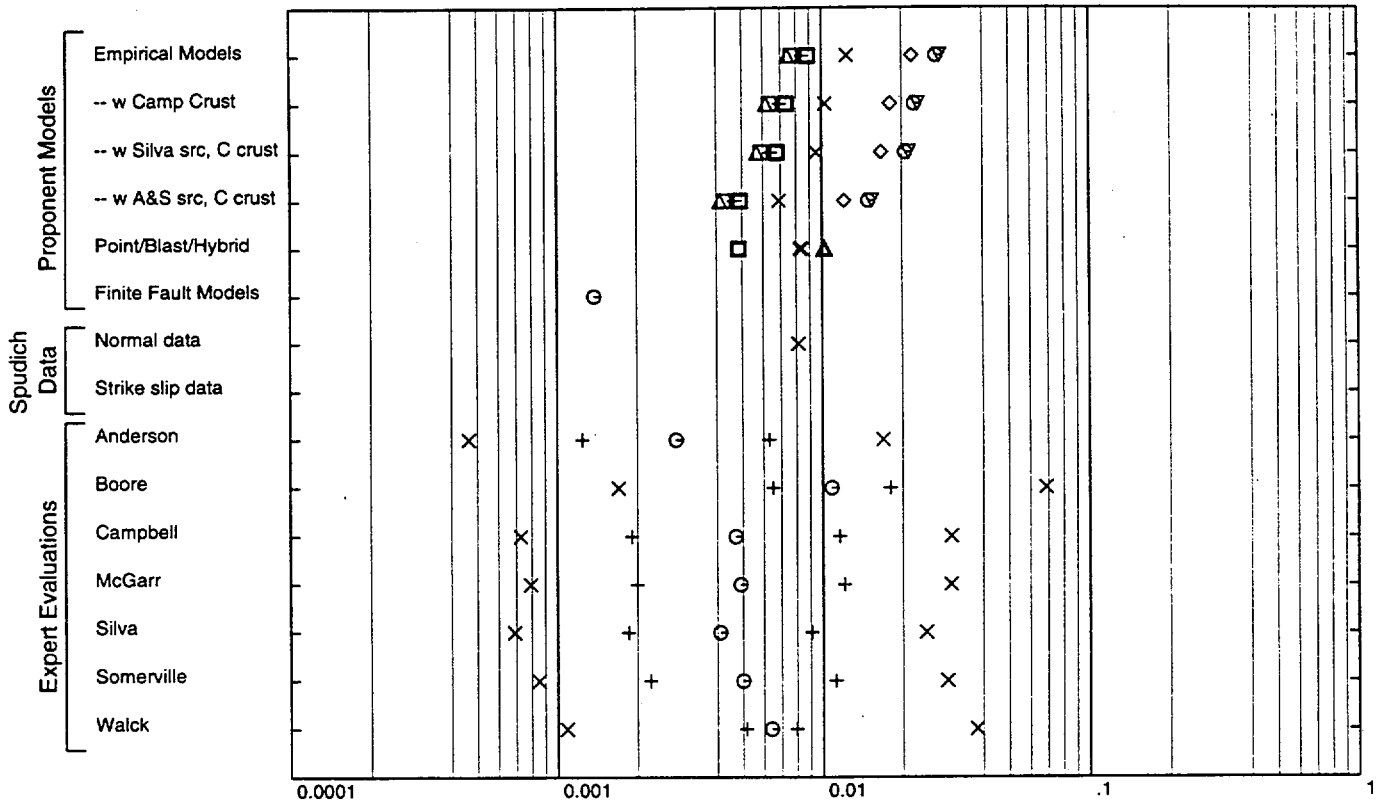
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

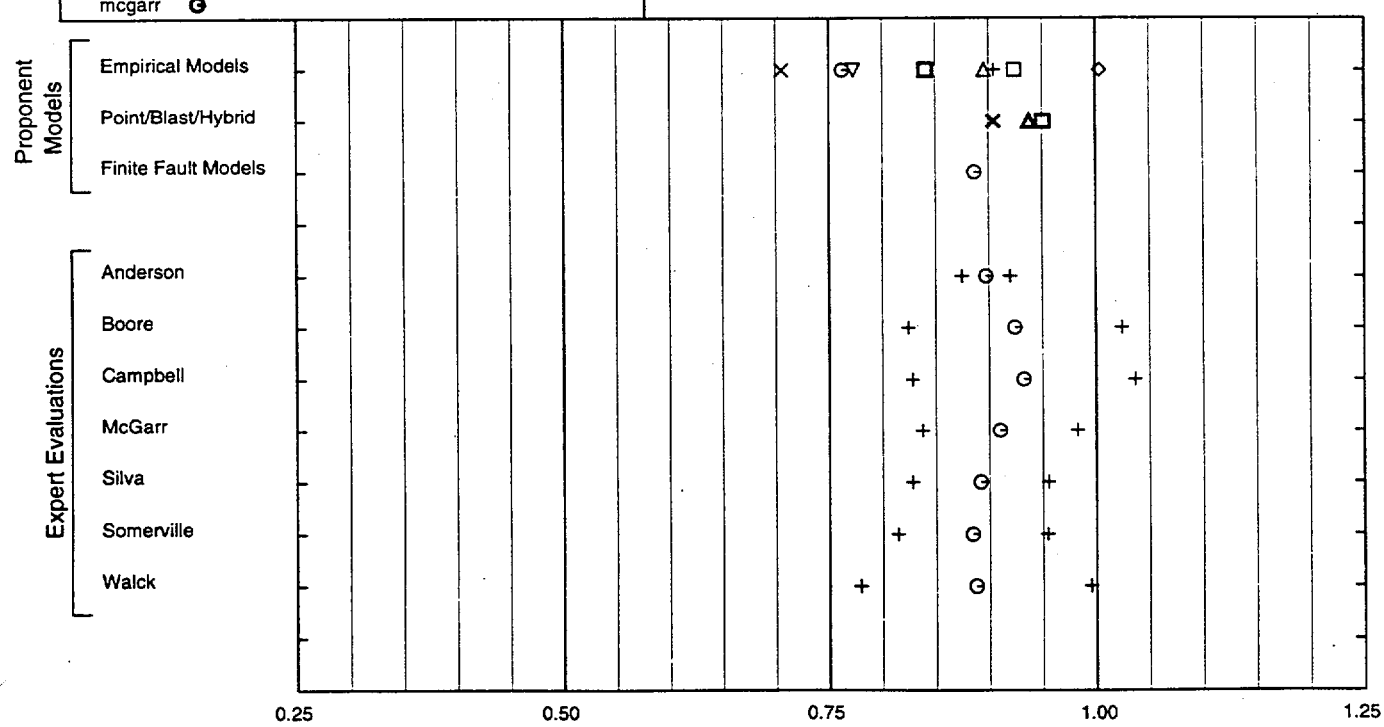
case 17, M= 5.0, deep, xd= 1 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

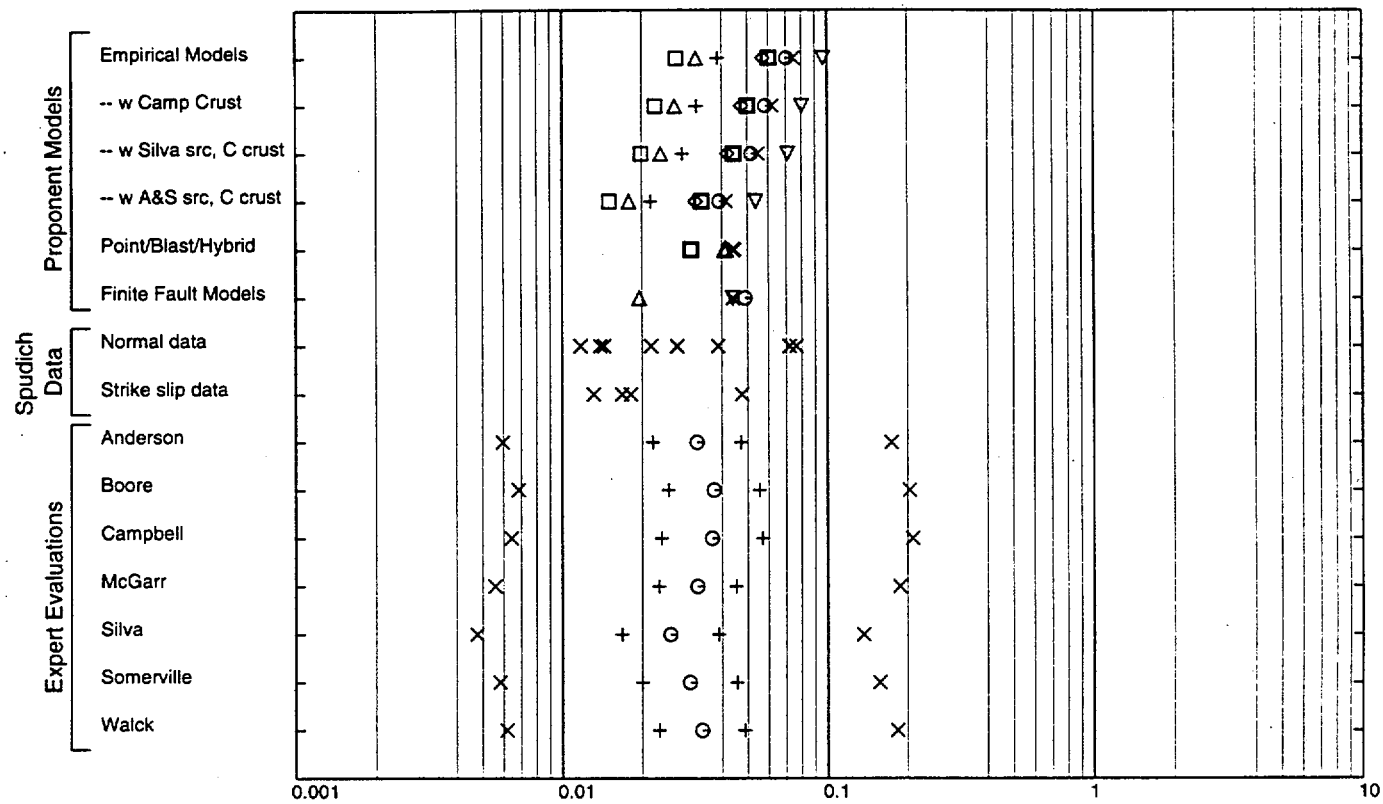
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

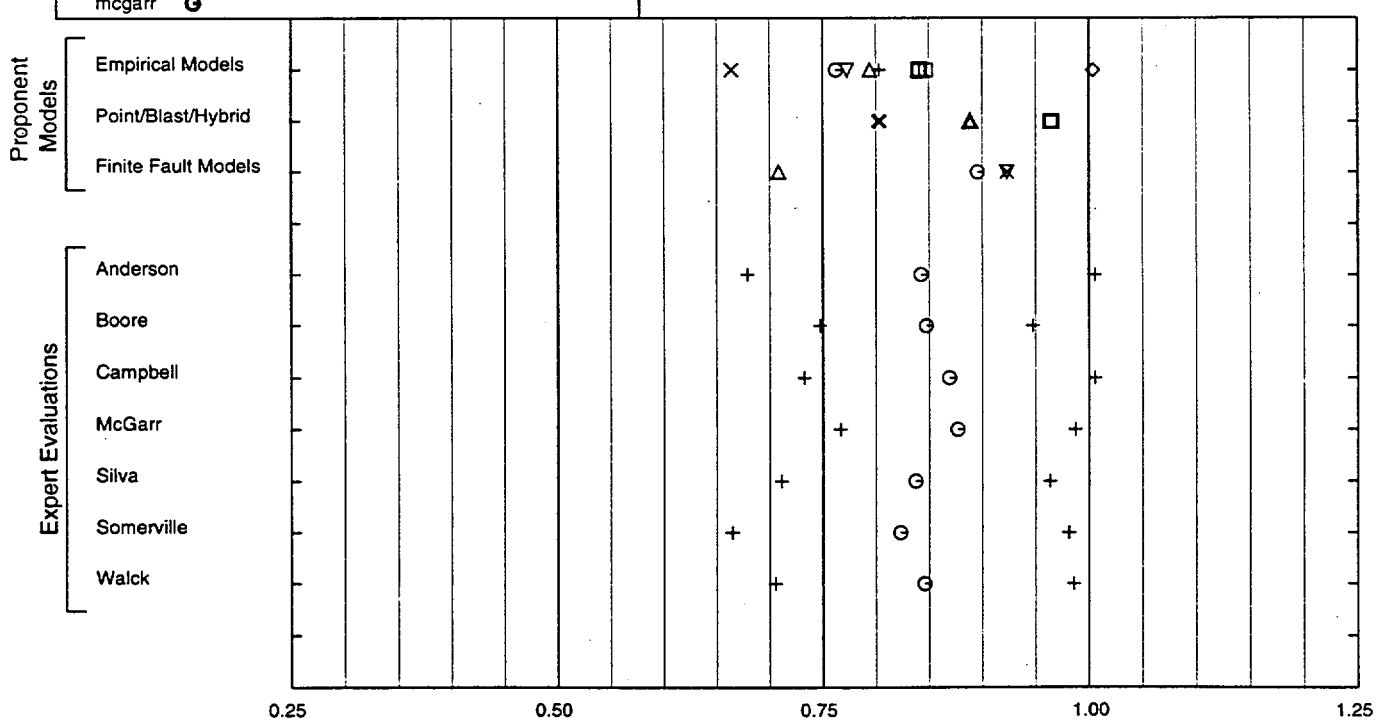
case 18, M= 5.8, deep, xd= 5 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

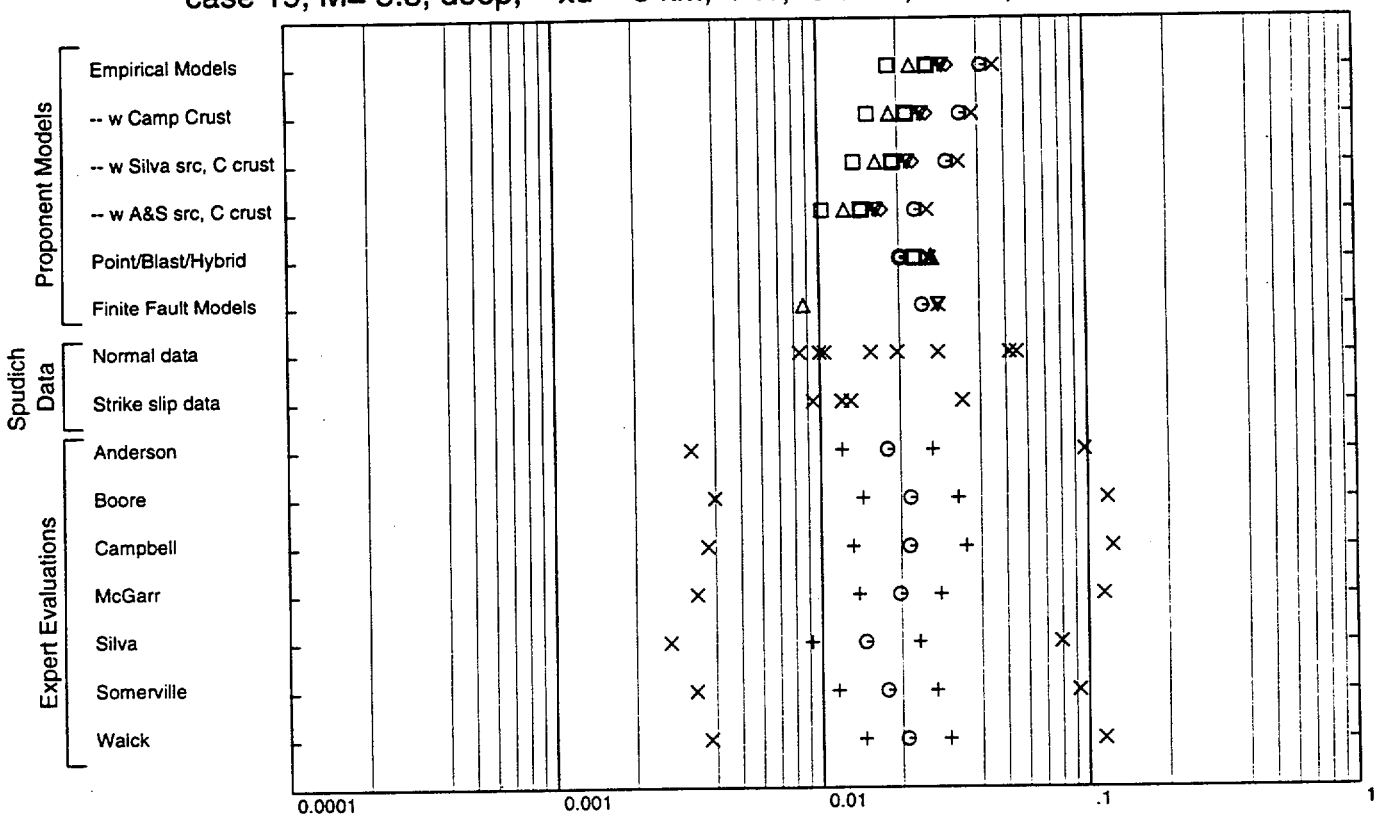
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



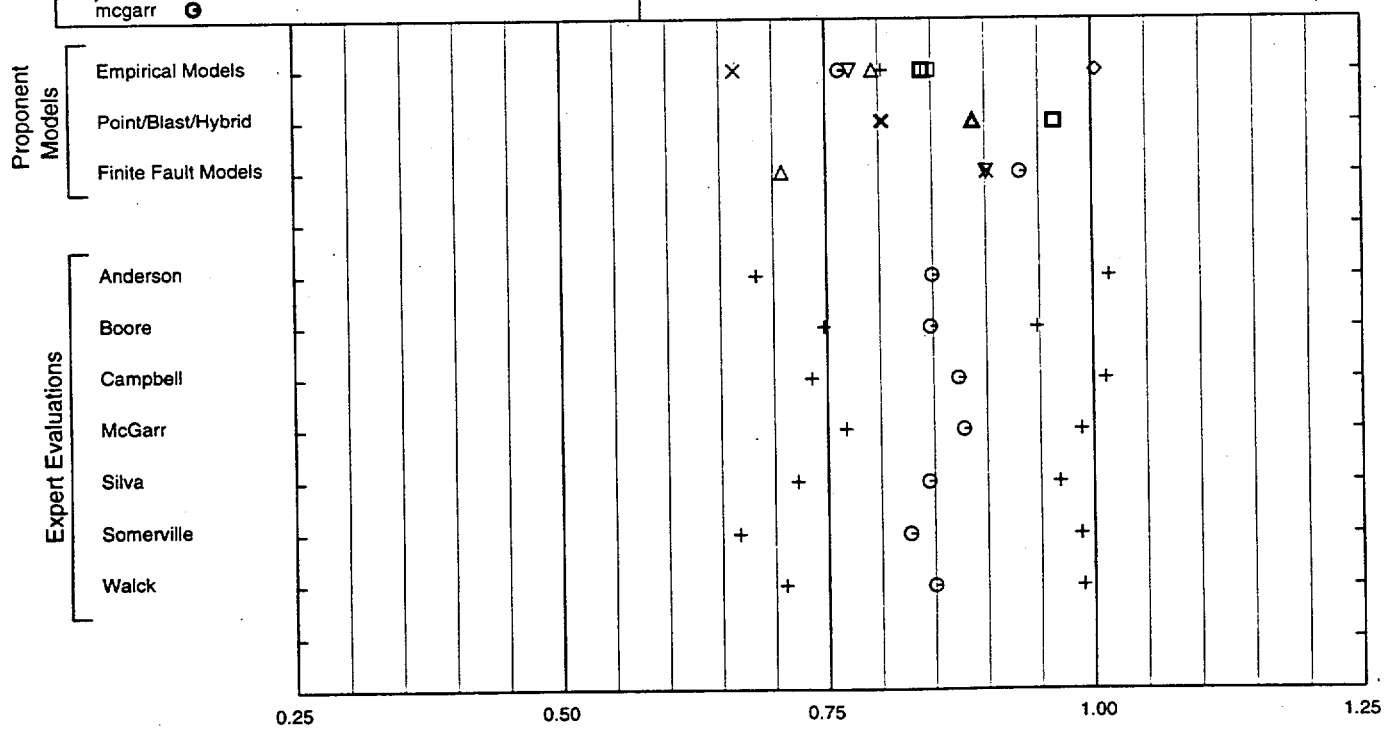
Aleatory Sigma (LN units) w/ Comp Var.

case 19, M= 5.8, deep, xd= -5 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1

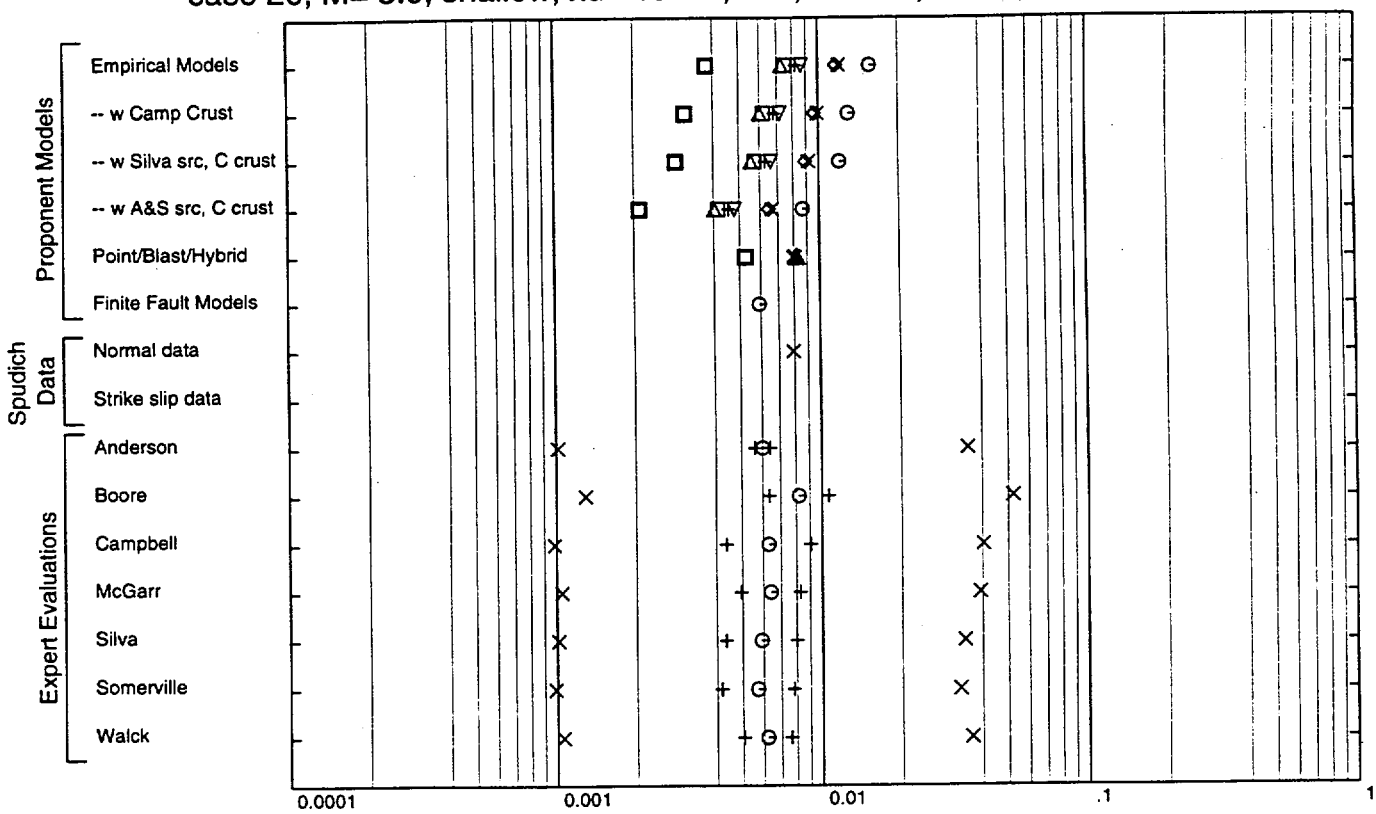


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

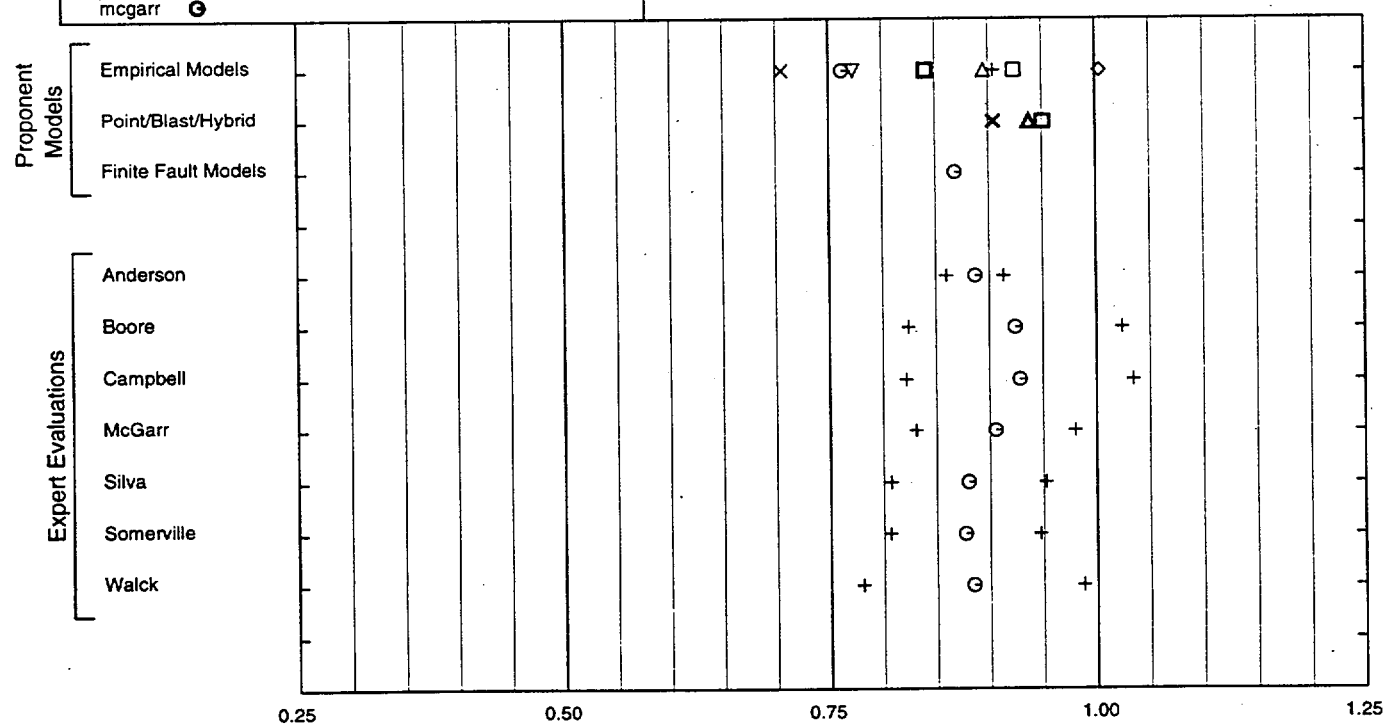


case 20, M= 5.0, shallow, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1

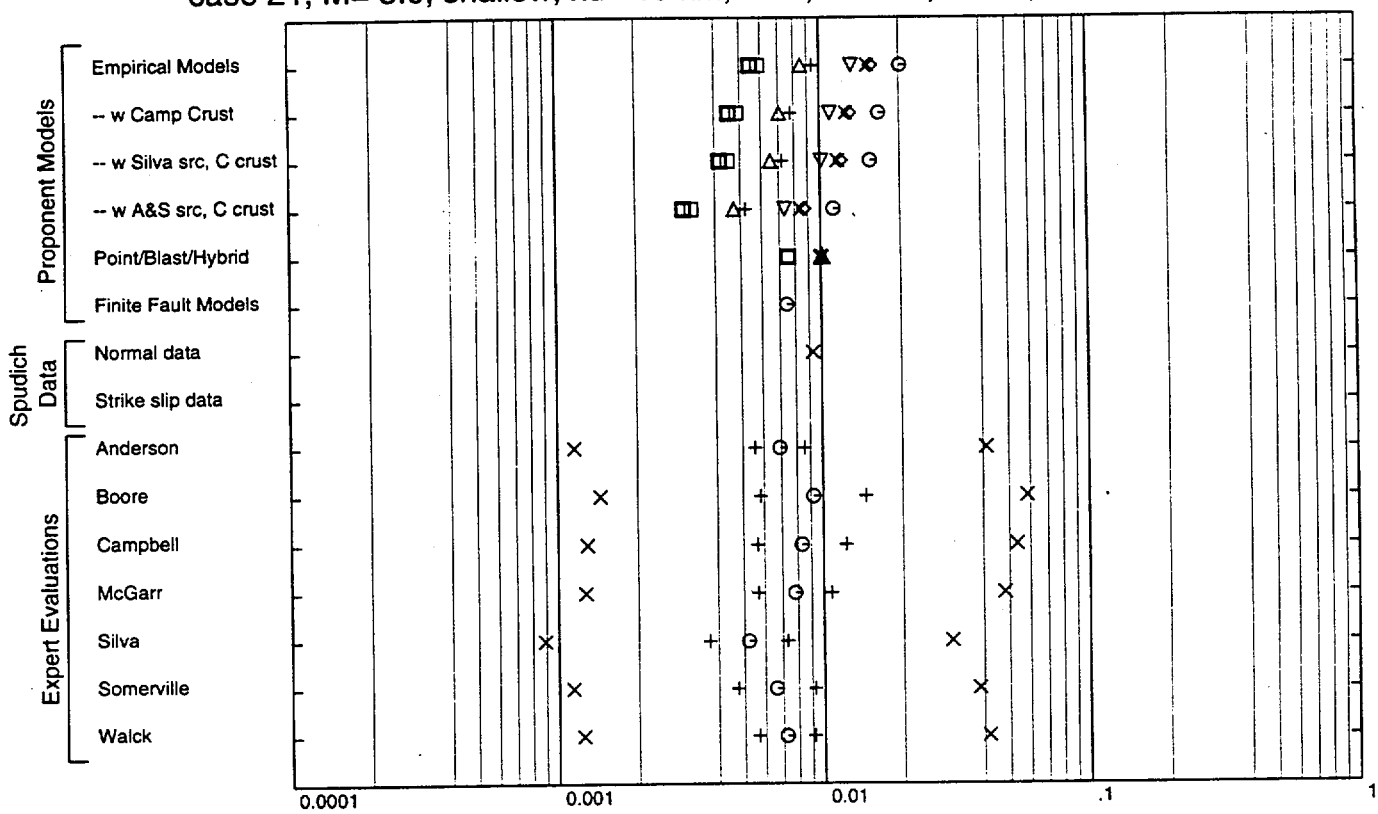


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



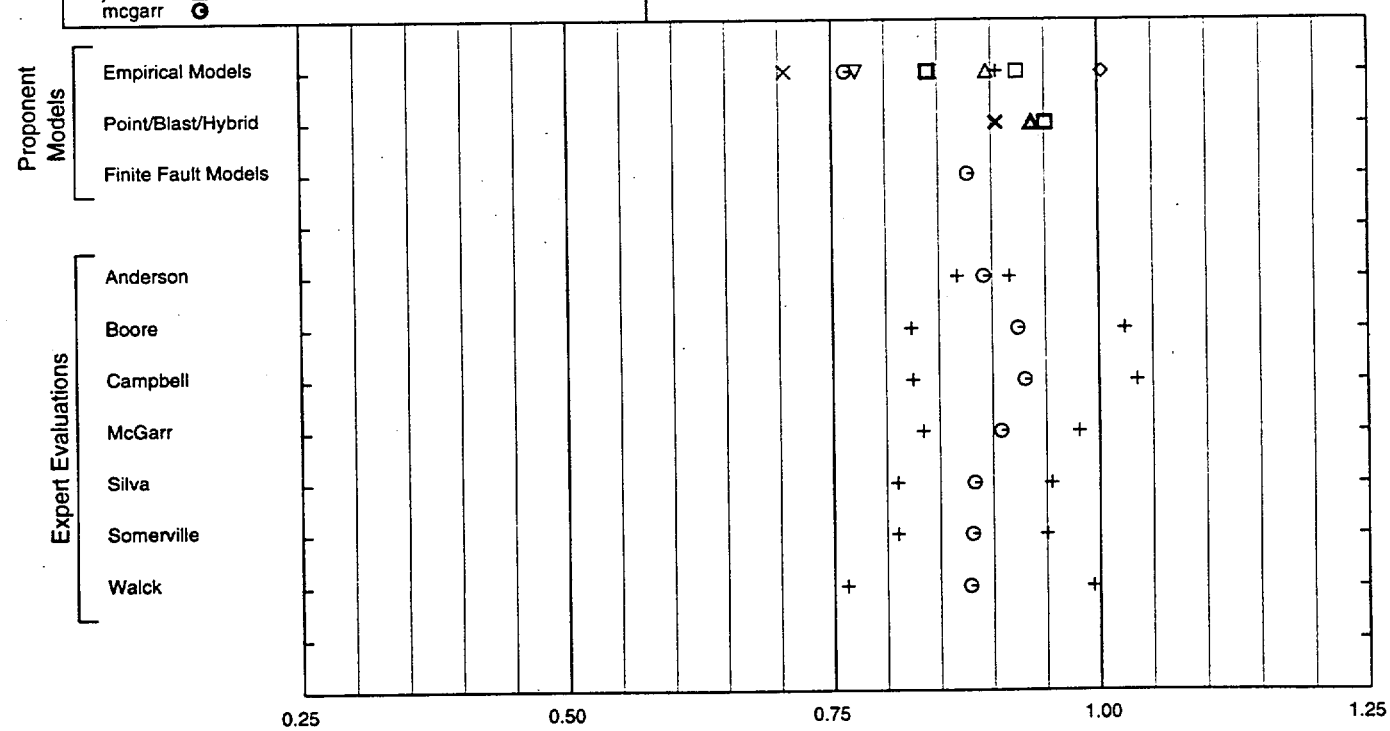
case 21, M= 5.0, shallow, xd= 10 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

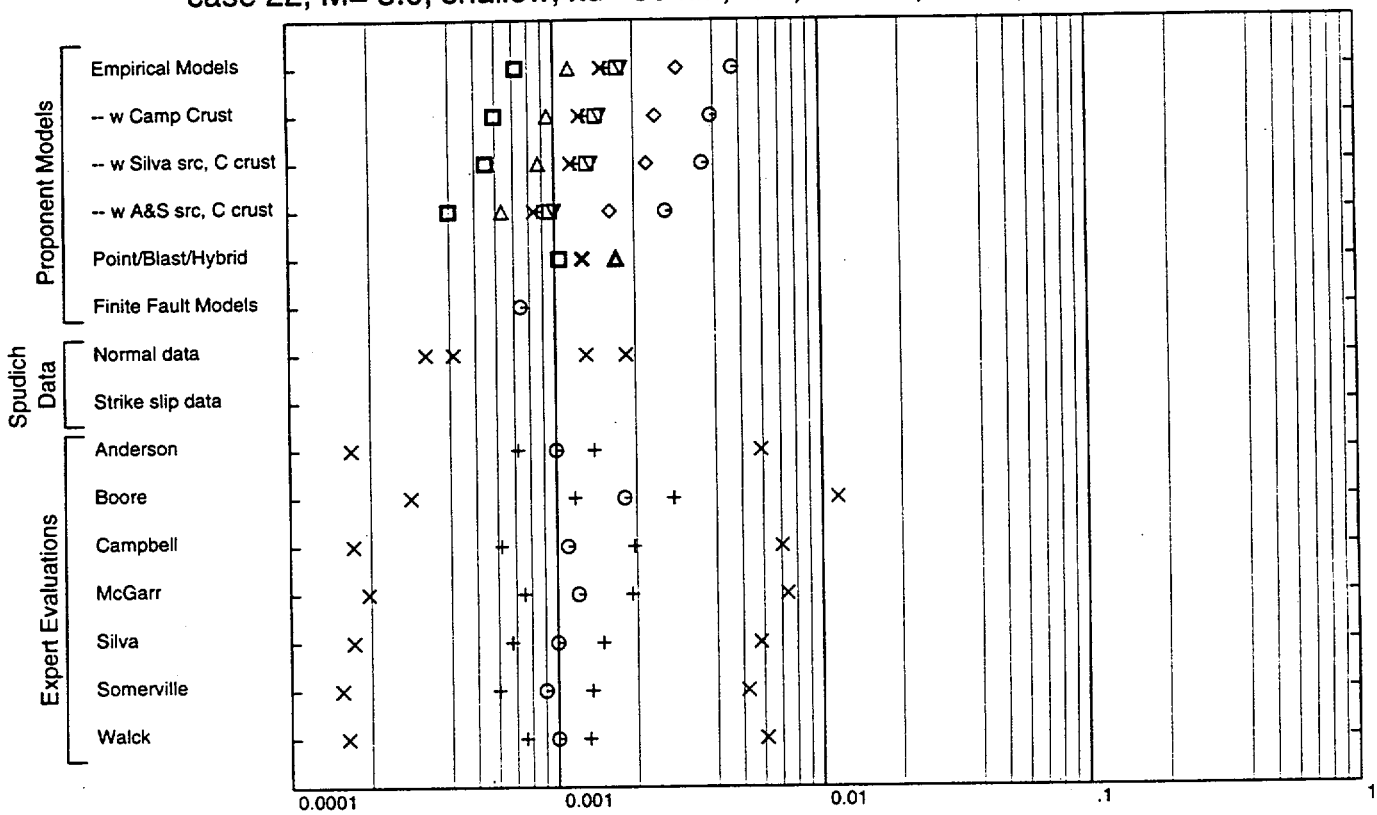
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

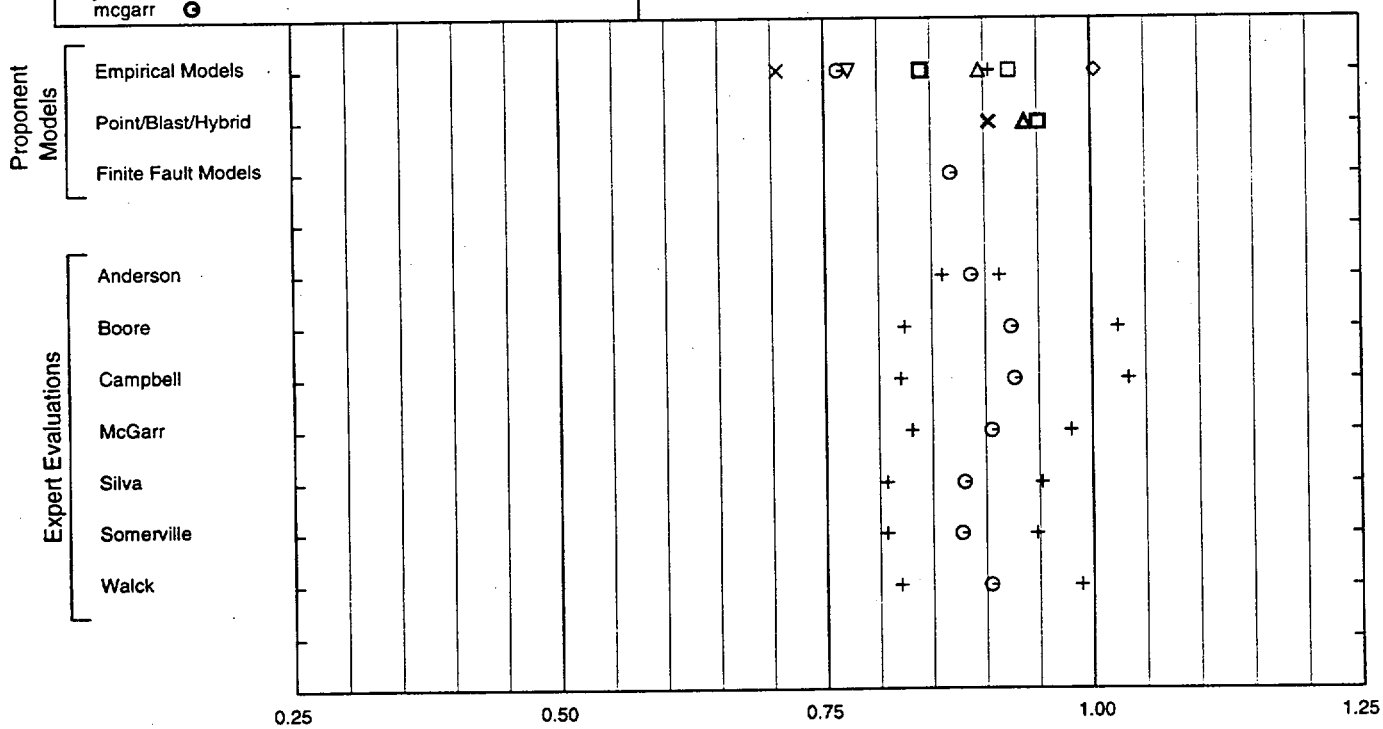
case 22, M= 5.0, shallow, xd= 50 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

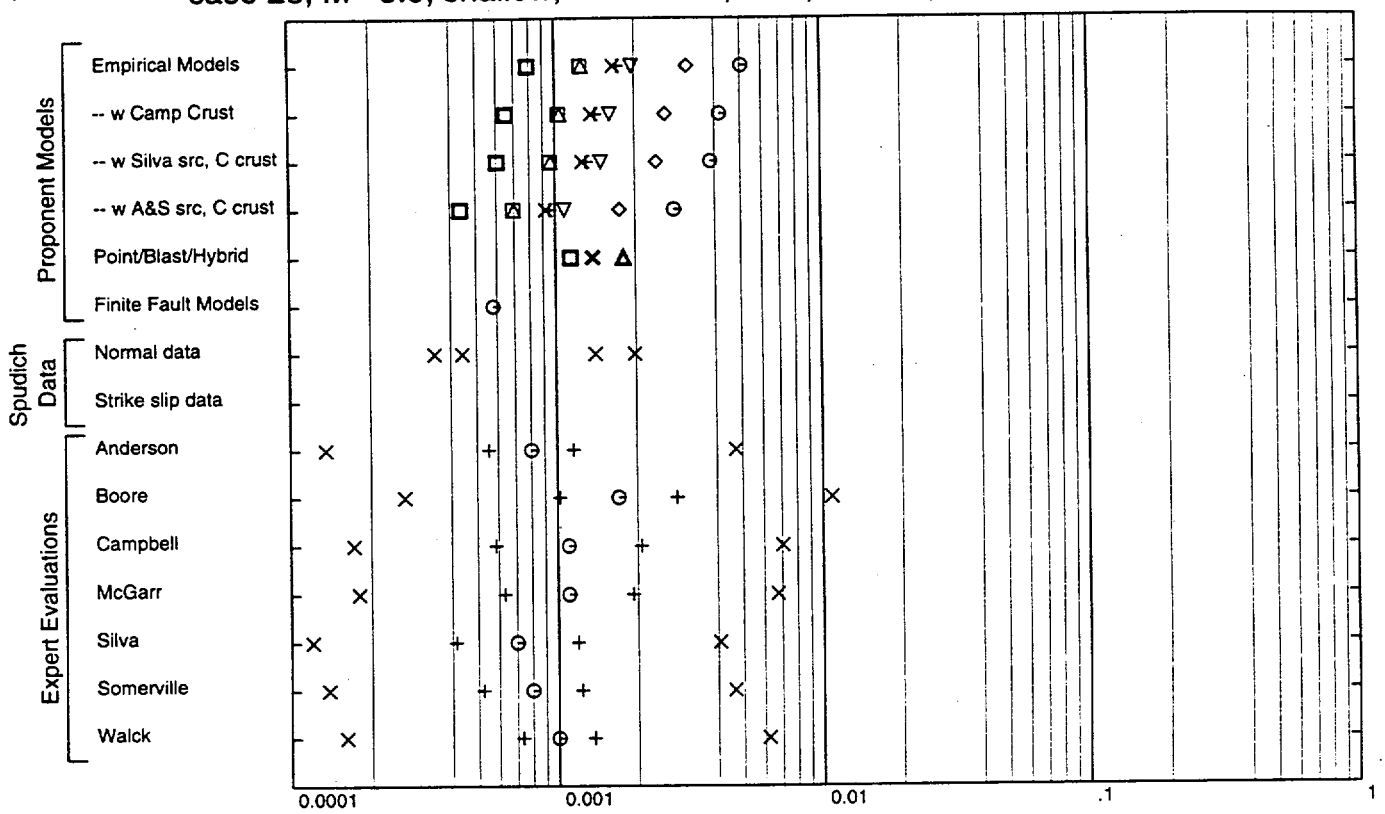
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

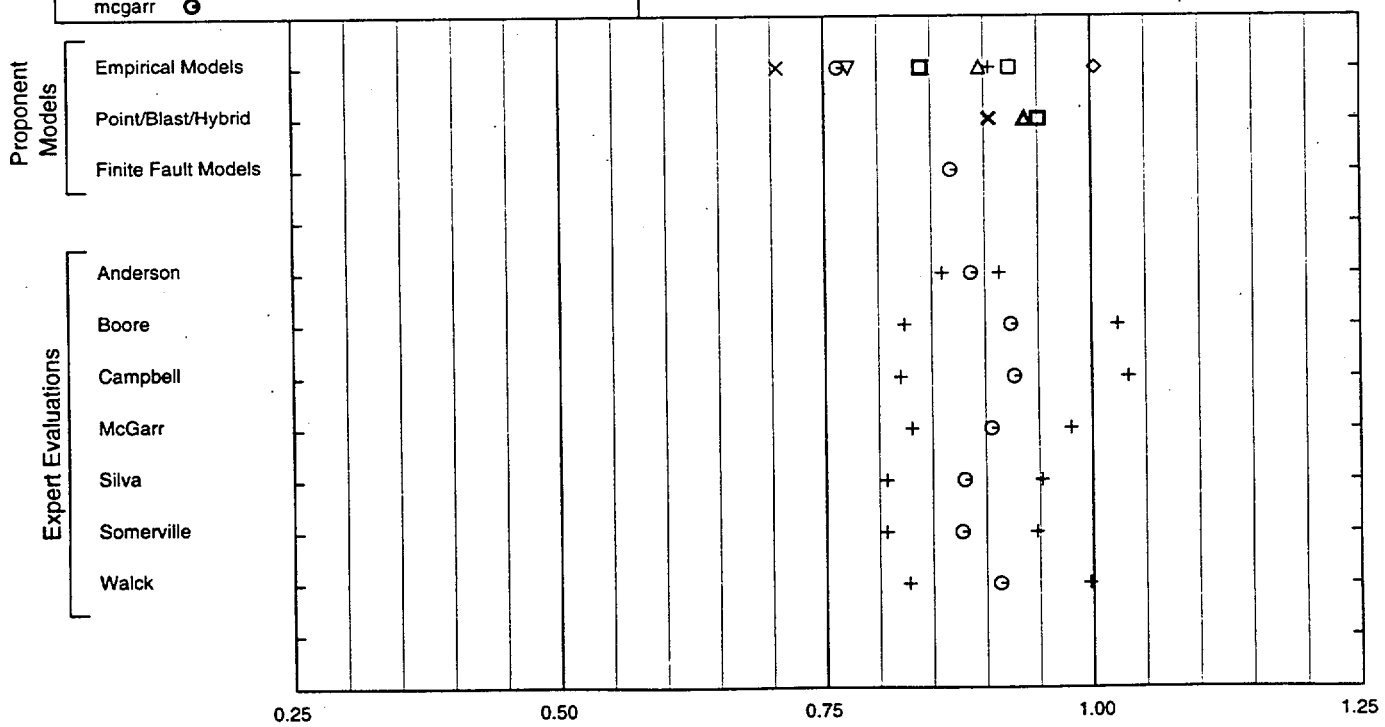
case 23, M= 5.0, shallow, xd= 50 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



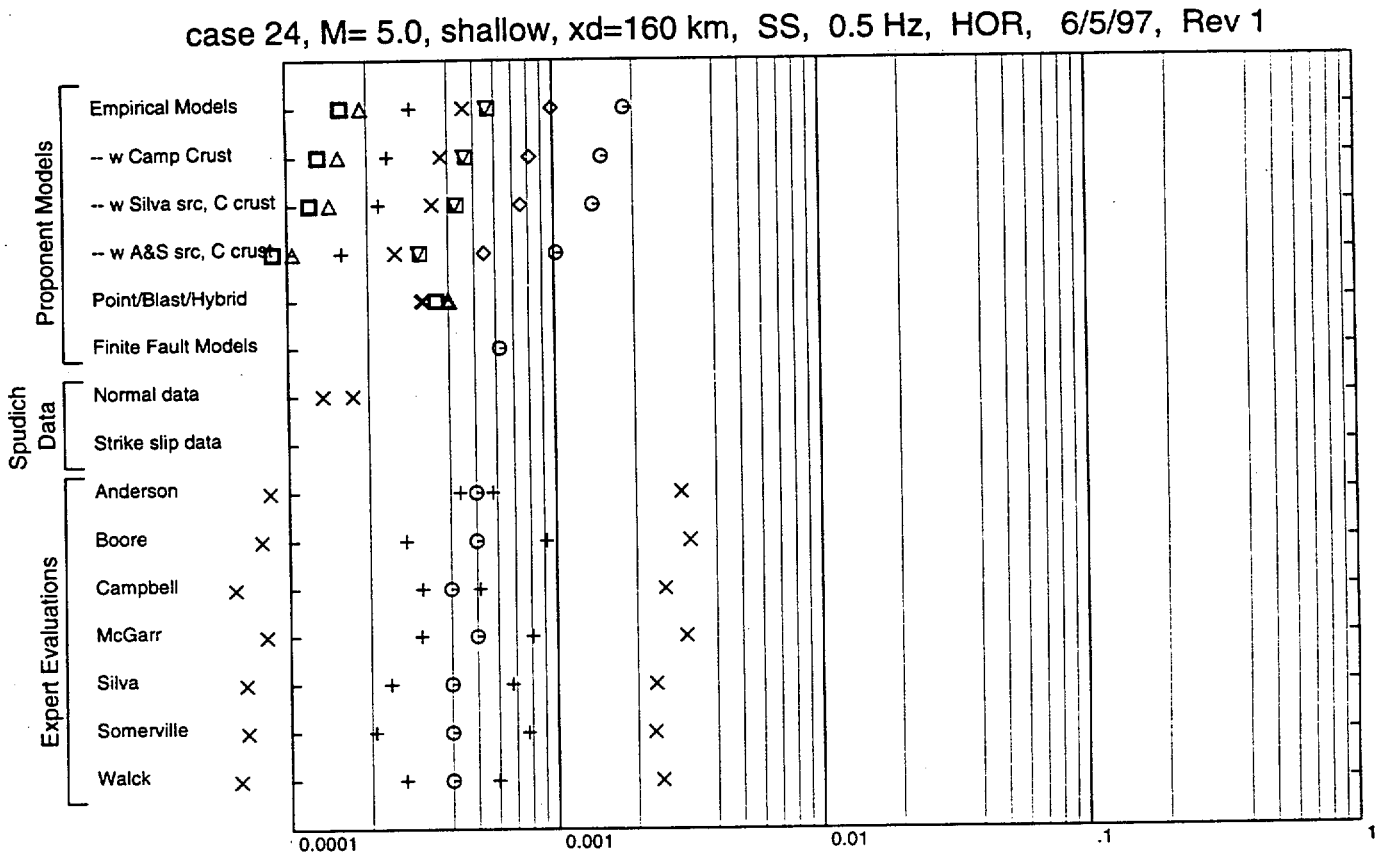
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

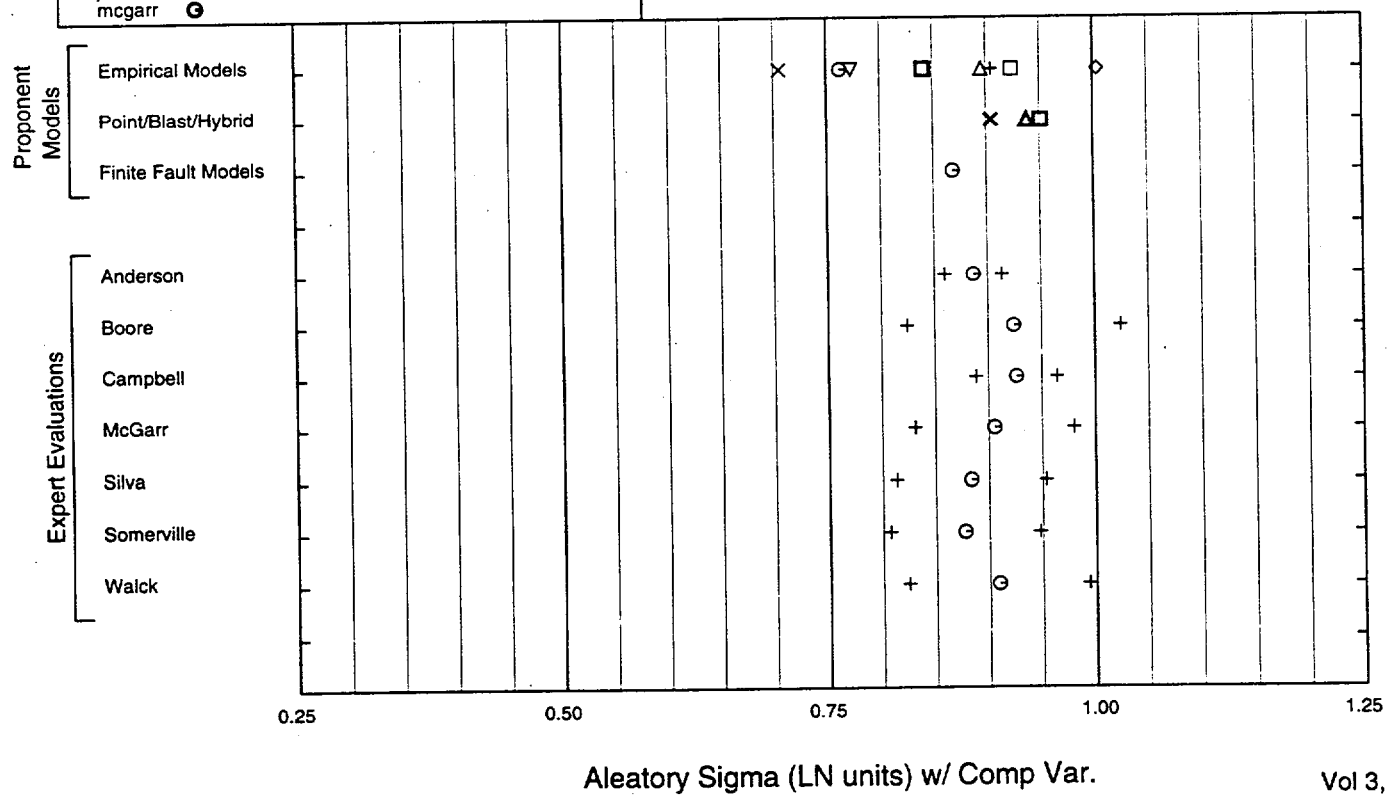


Aleatory Sigma (LN units) w/ Comp Var.

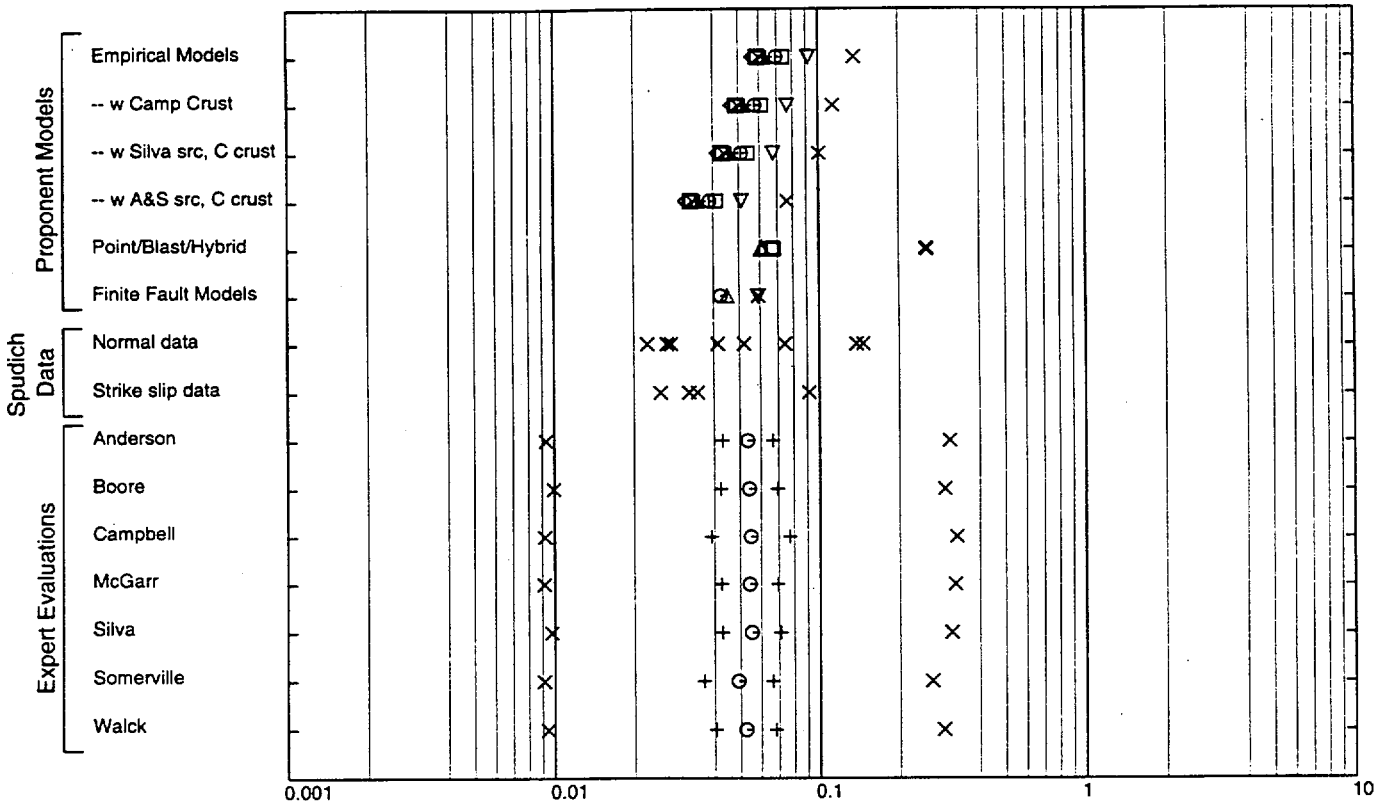


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



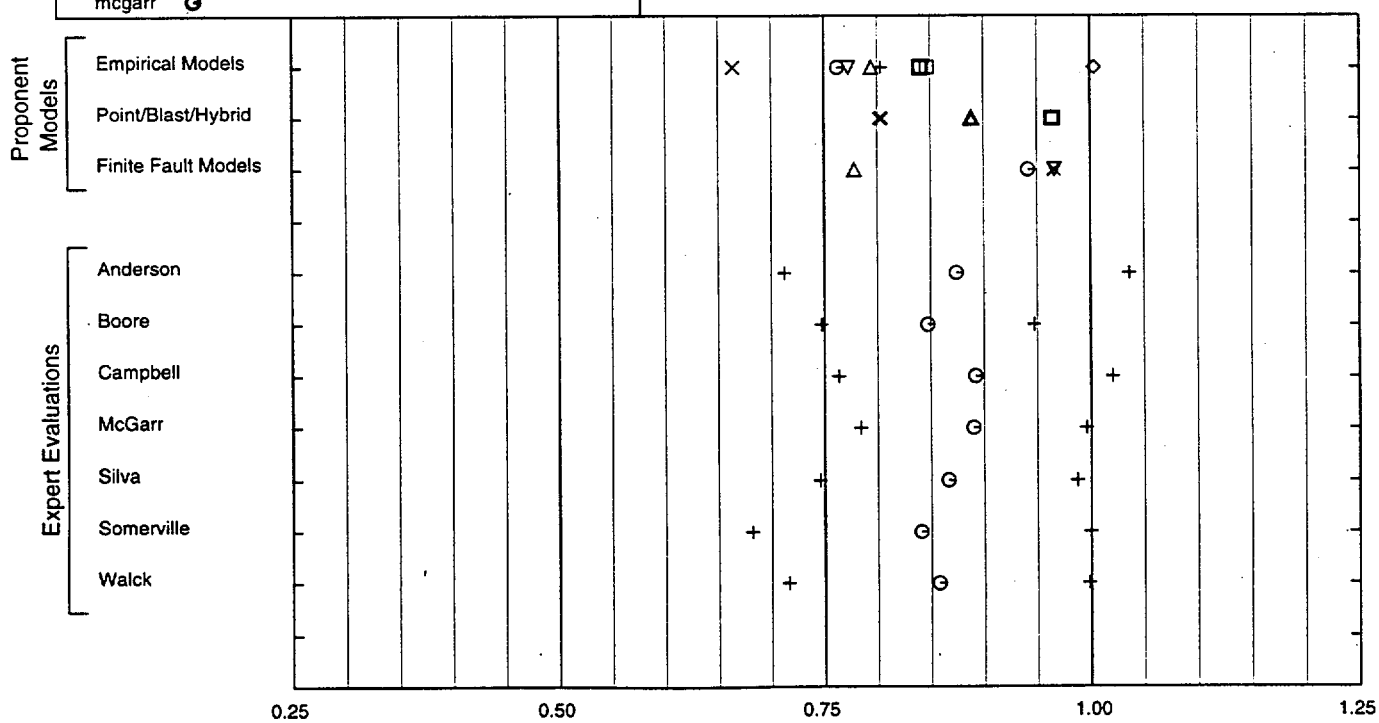
case 25, M= 5.8, shallow, xd= 1 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

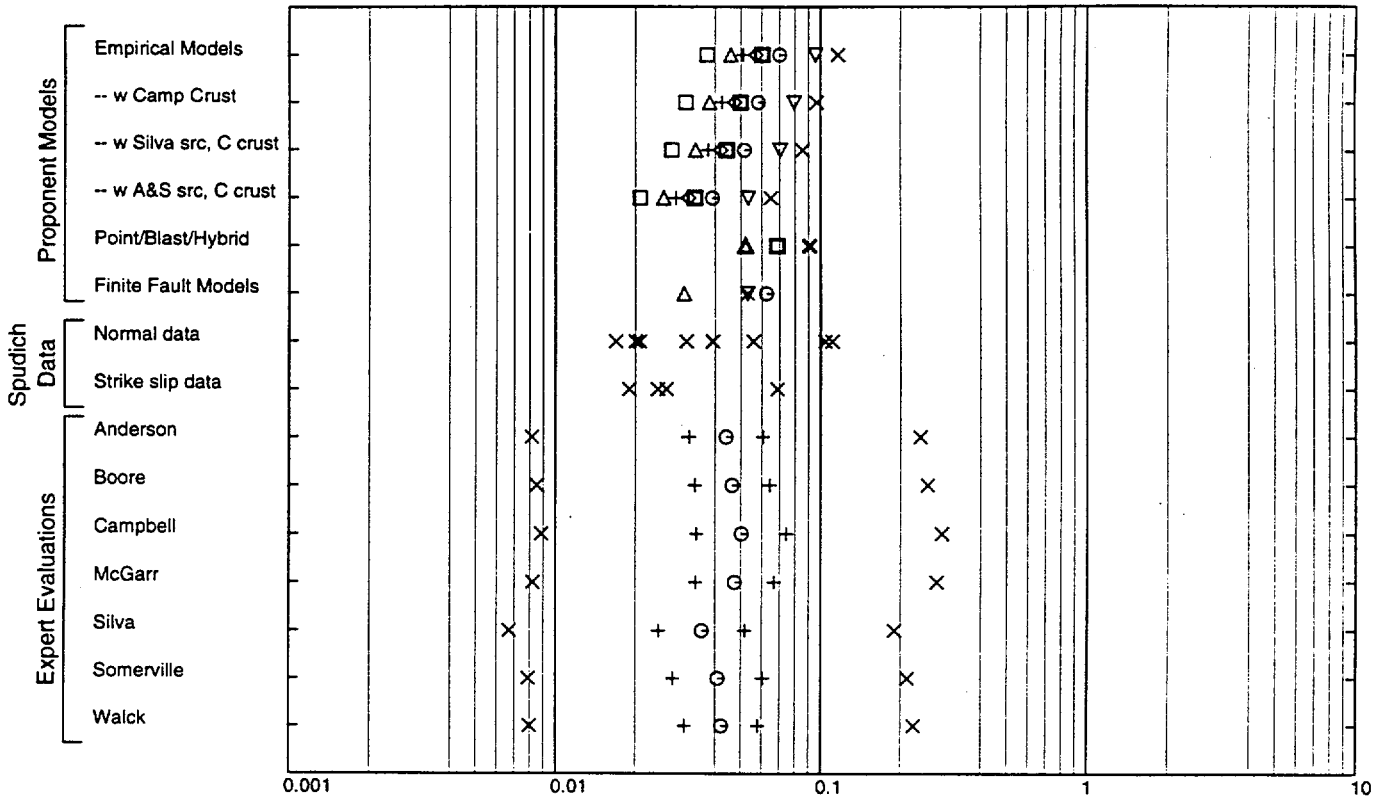
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

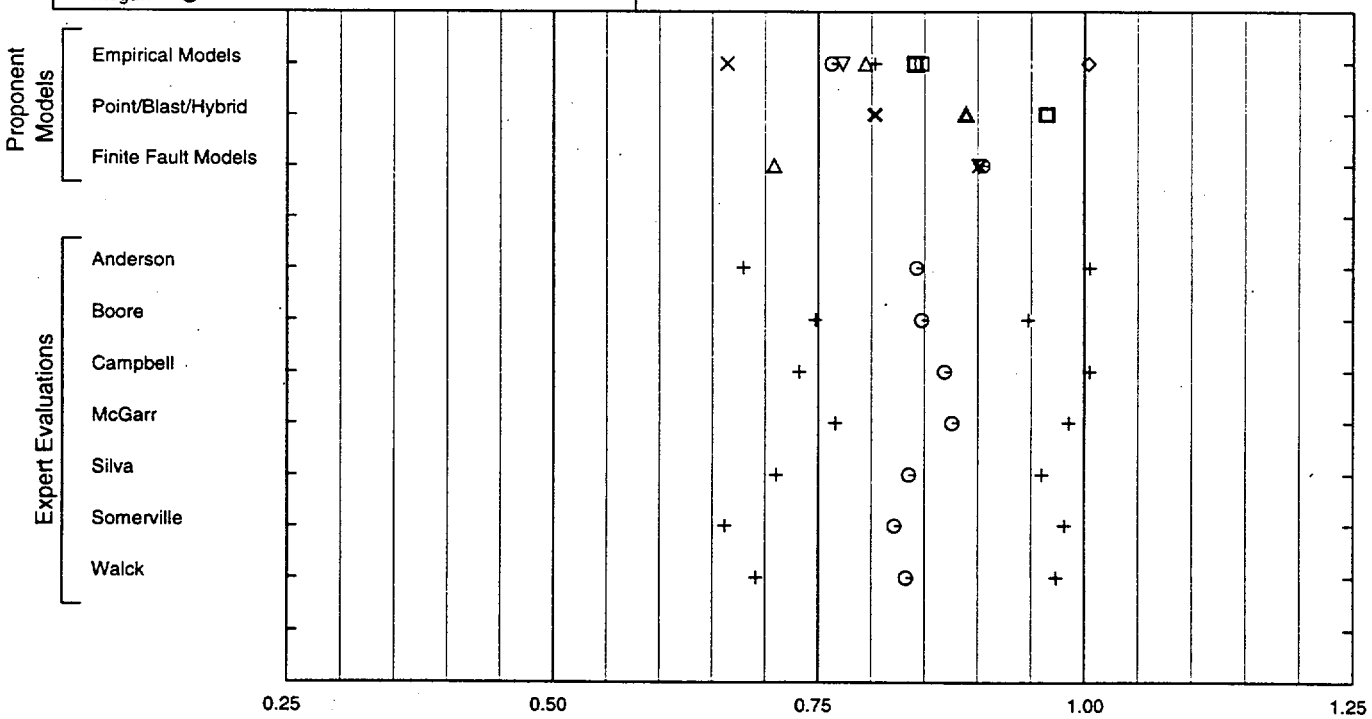
case 26, M= 5.8, shallow, xd= 5 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

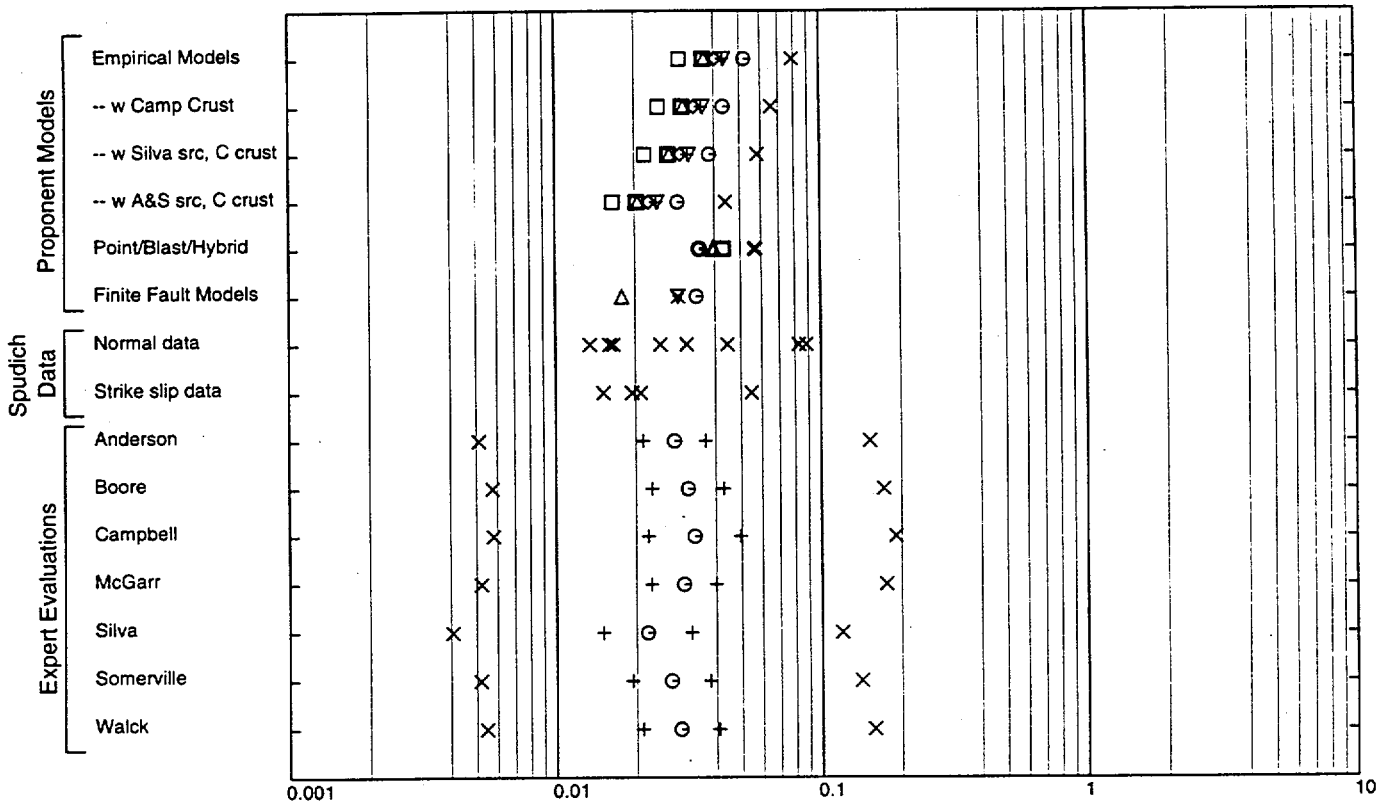
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

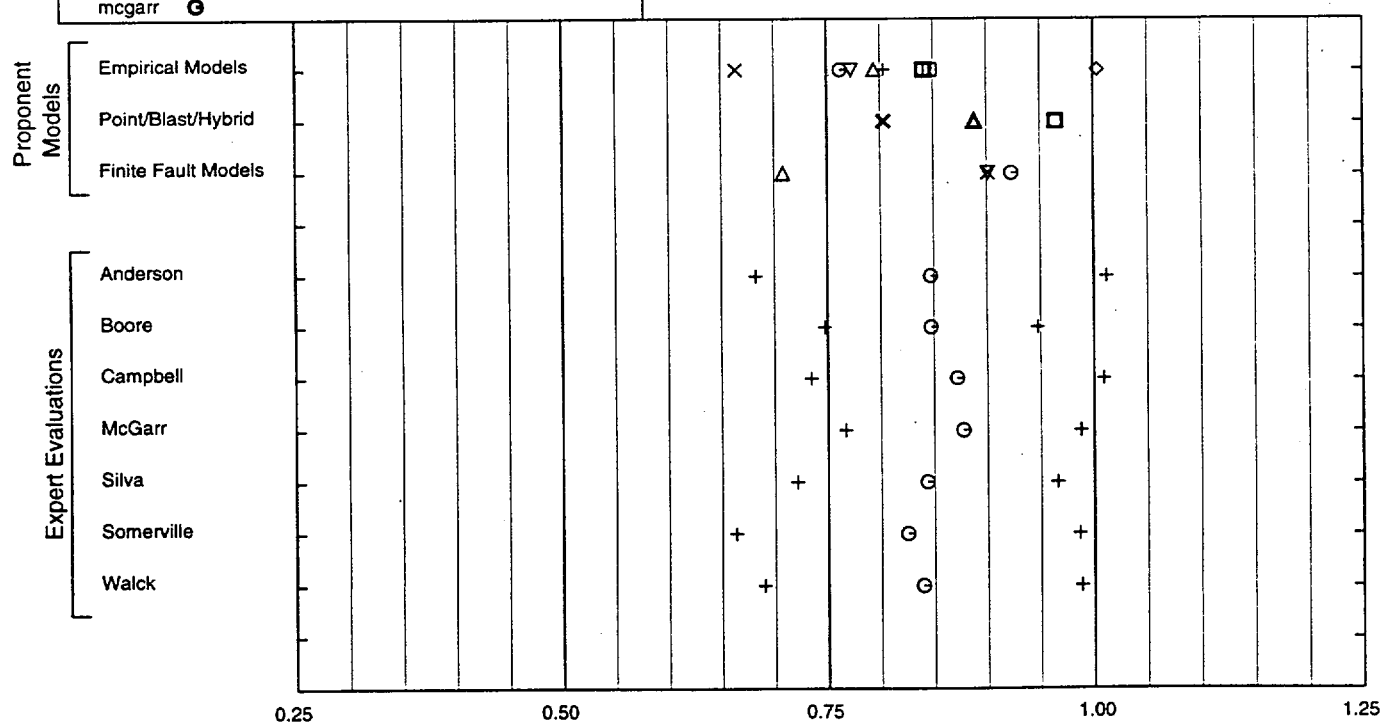
case 27, M= 5.8, shallow, xd= -5 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

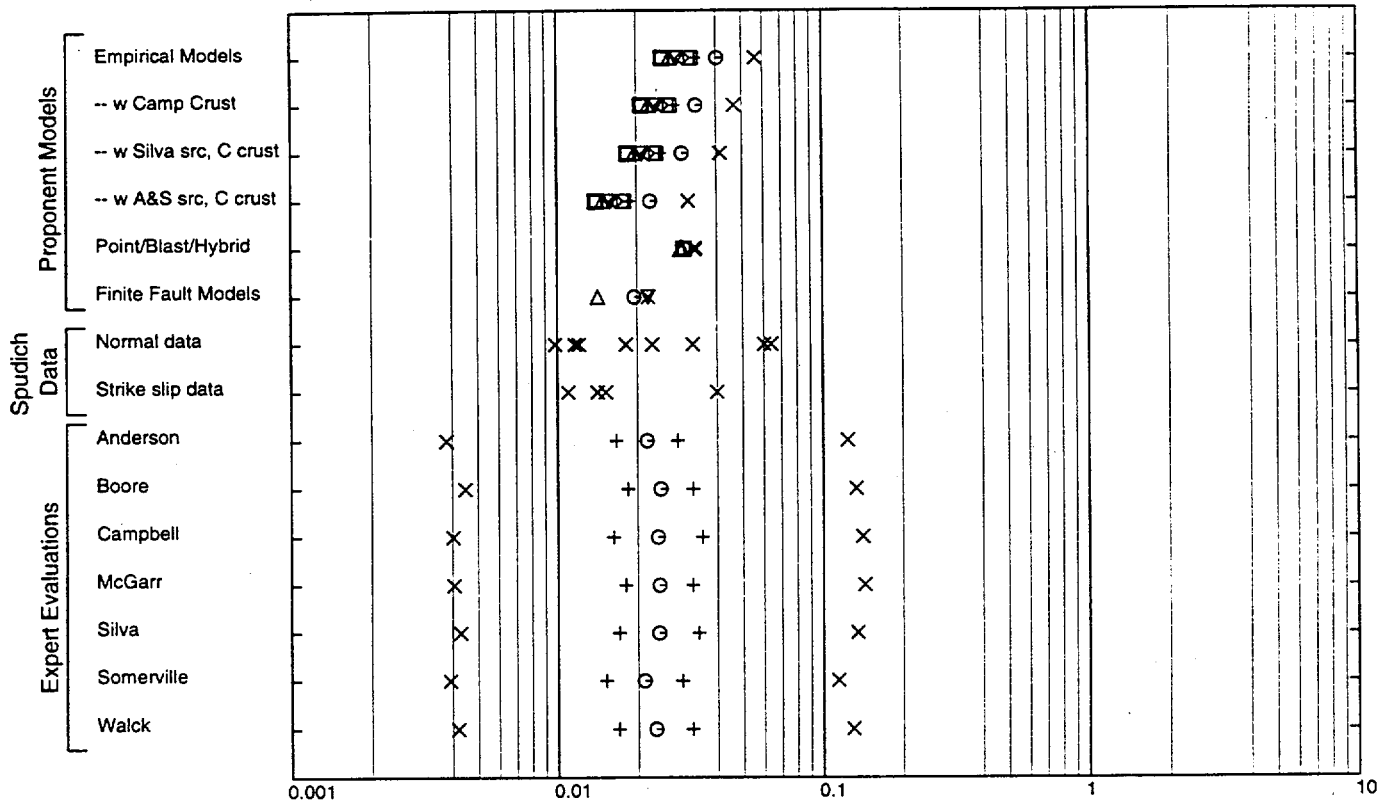
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

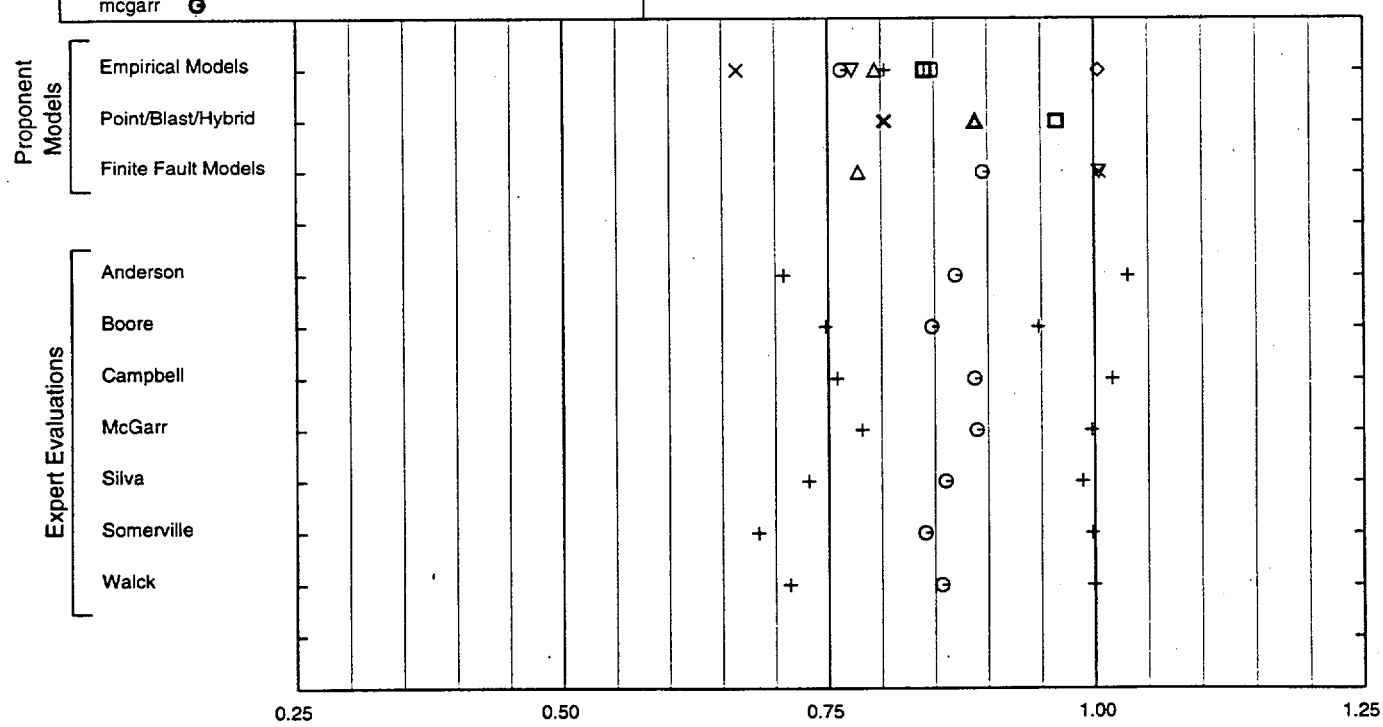
case 28, M= 5.8, shallow, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

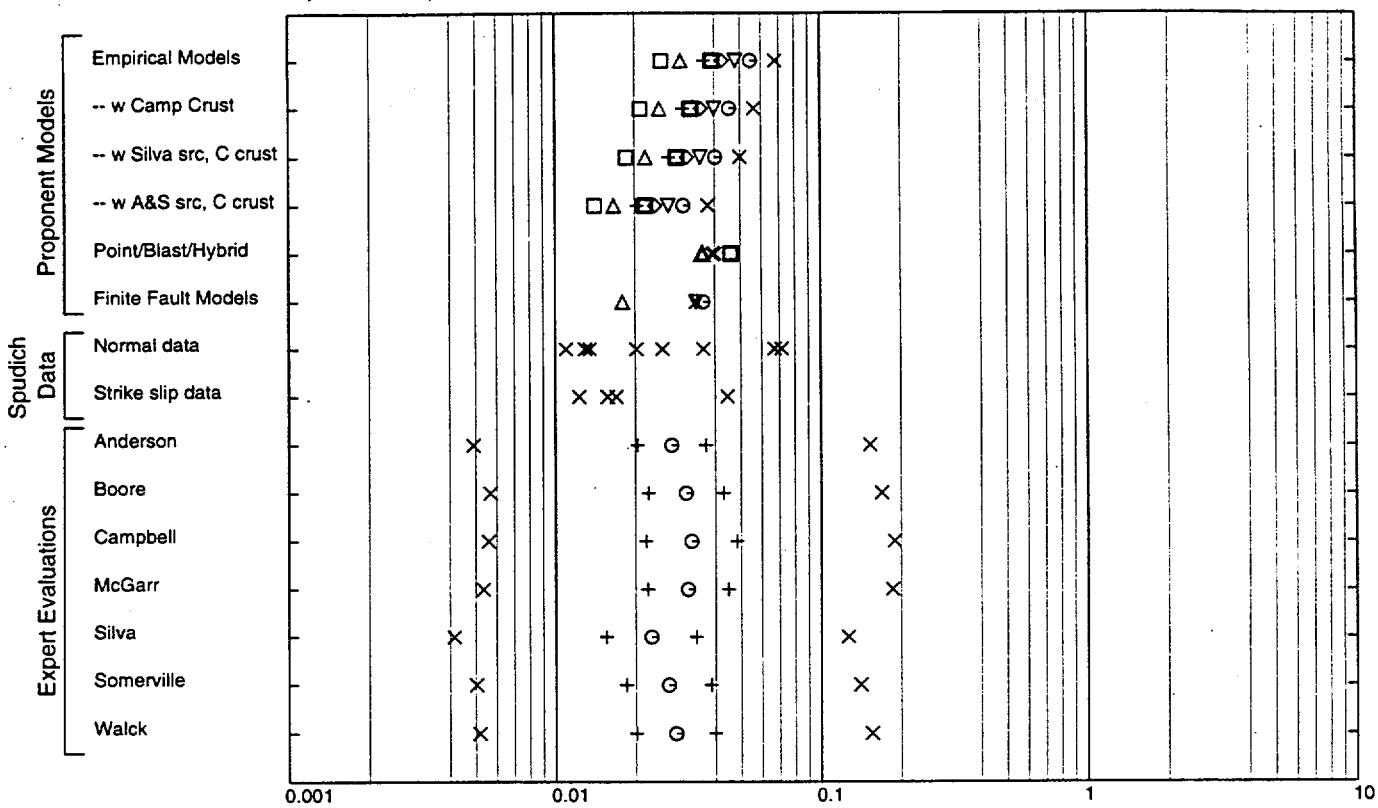
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

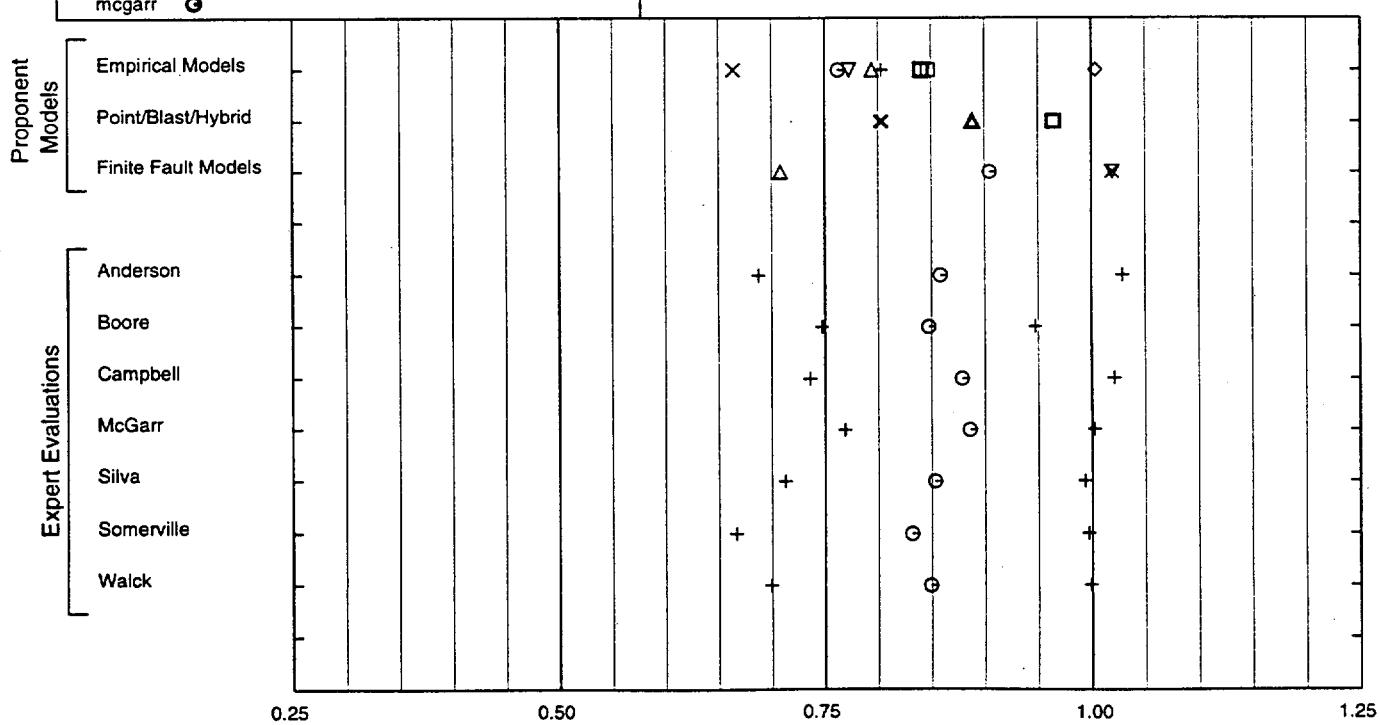
case 29, M= 5.8, shallow, xd= 10 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

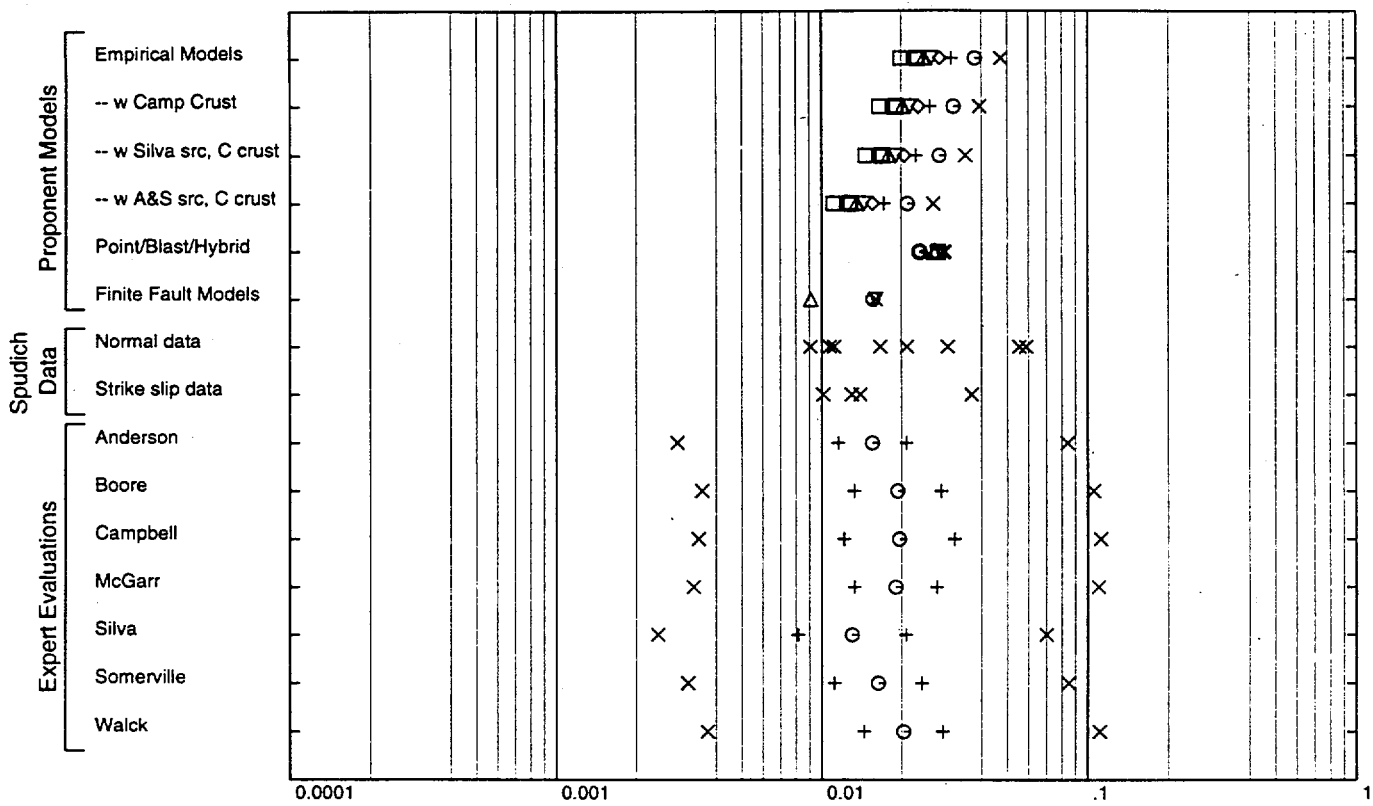
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



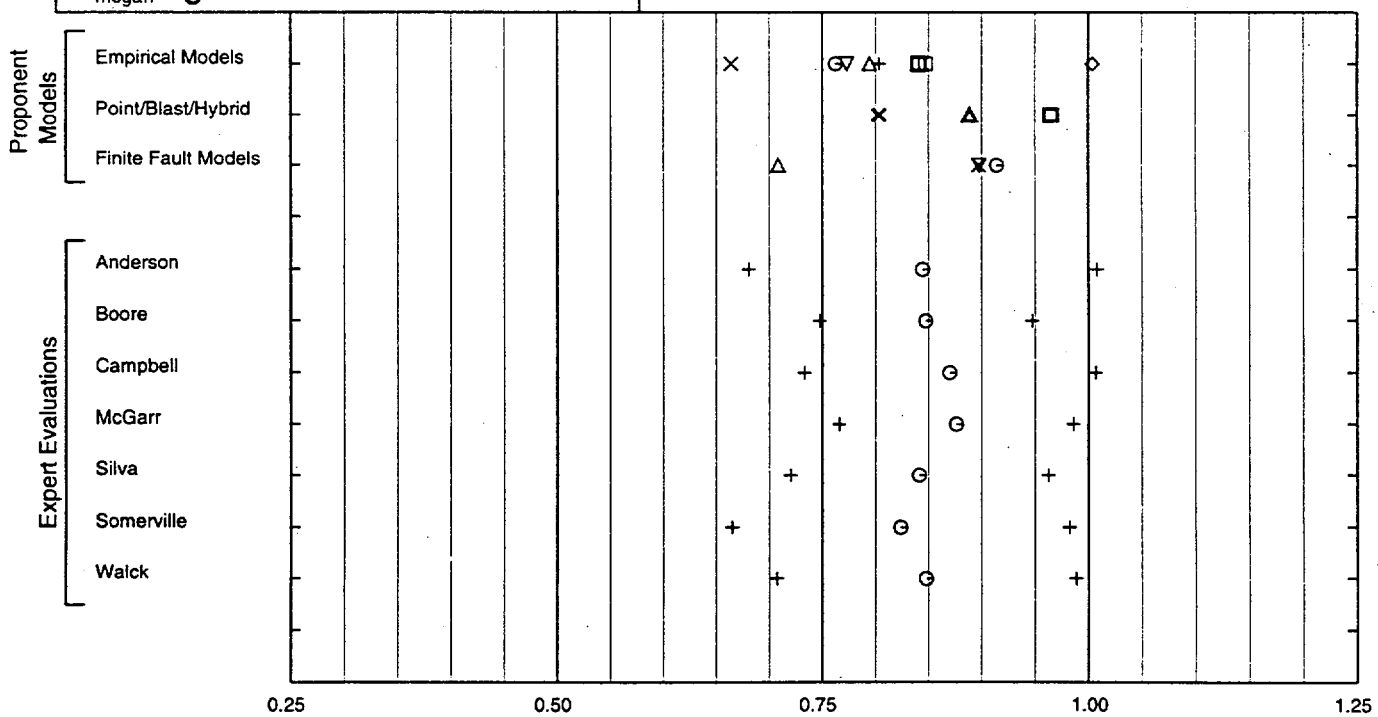
Aleatory Sigma (LN units) w/ Comp Var.

case 30, M= 5.8, shallow, xd=-10 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1

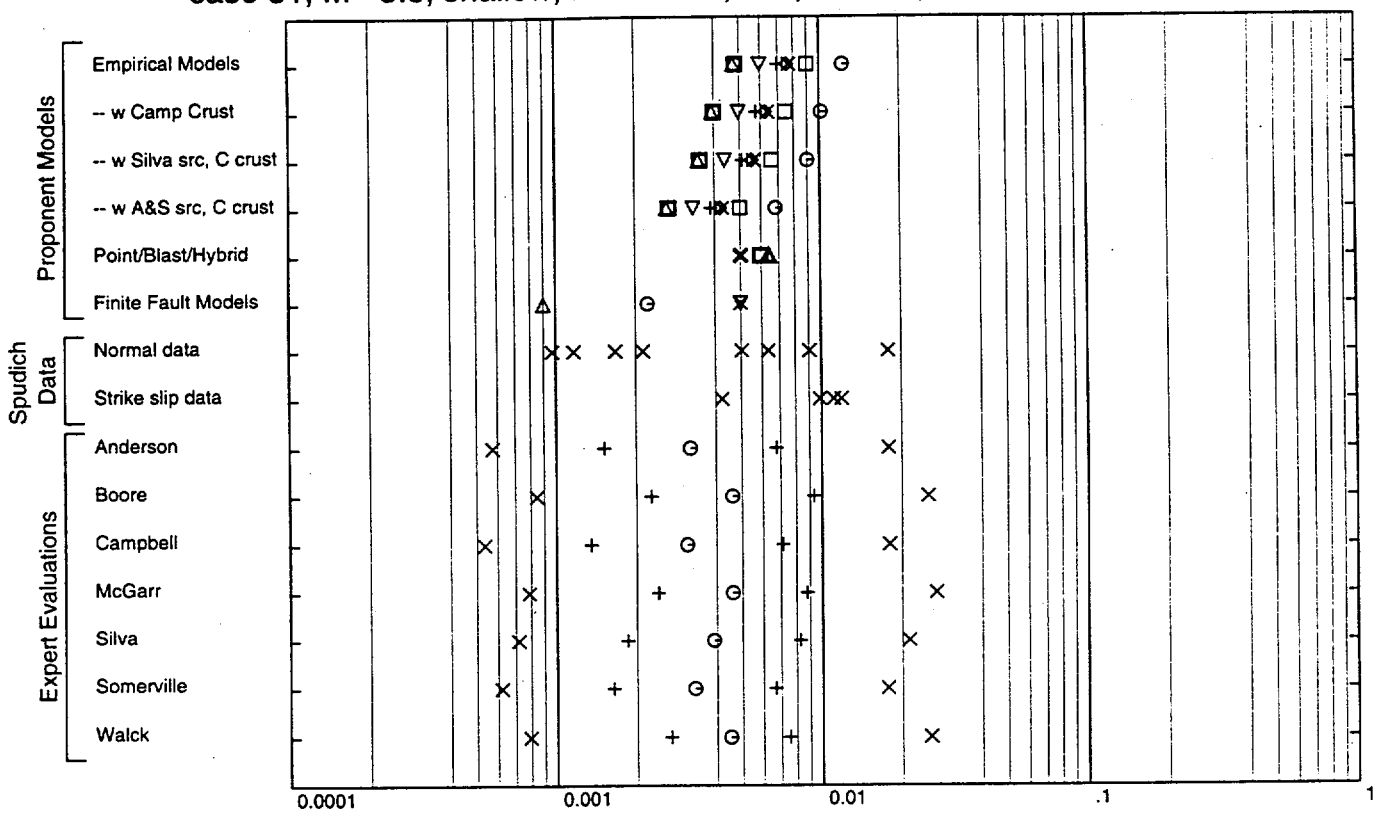


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

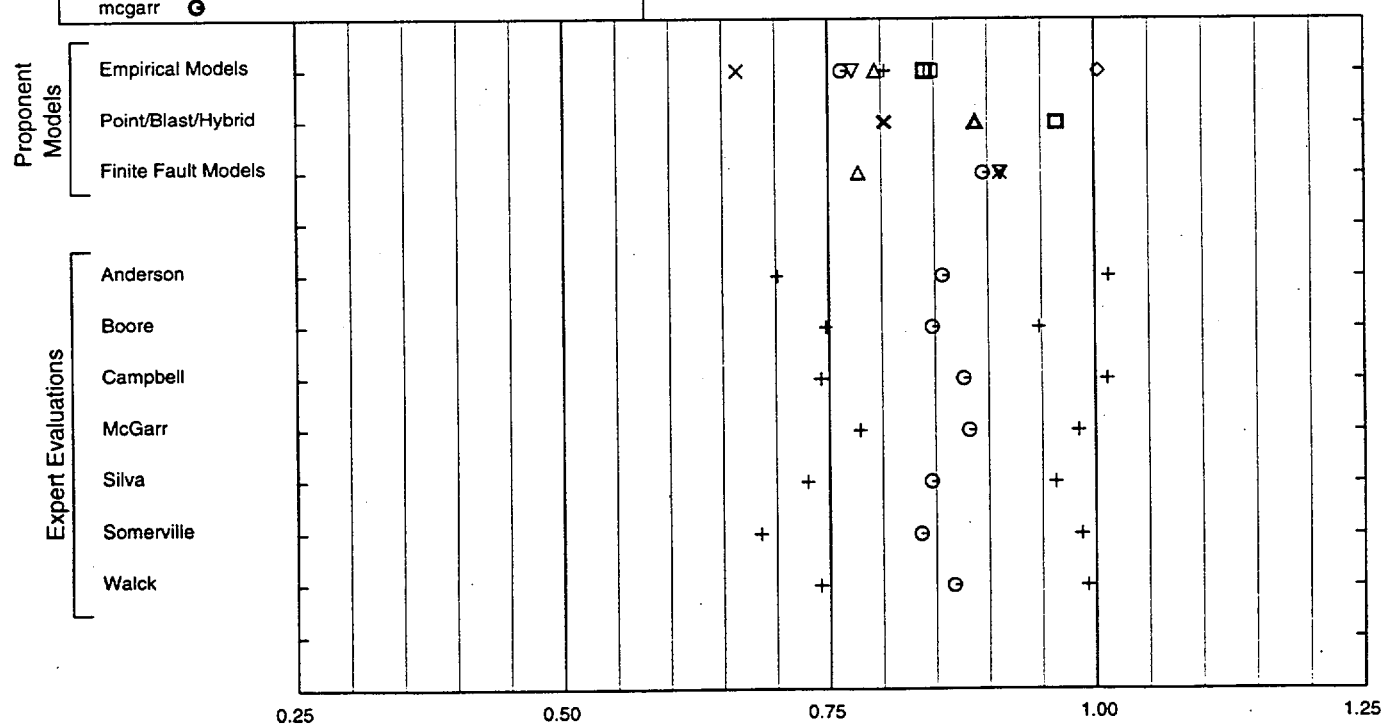


case 31, M= 5.8, shallow, xd= 50 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1

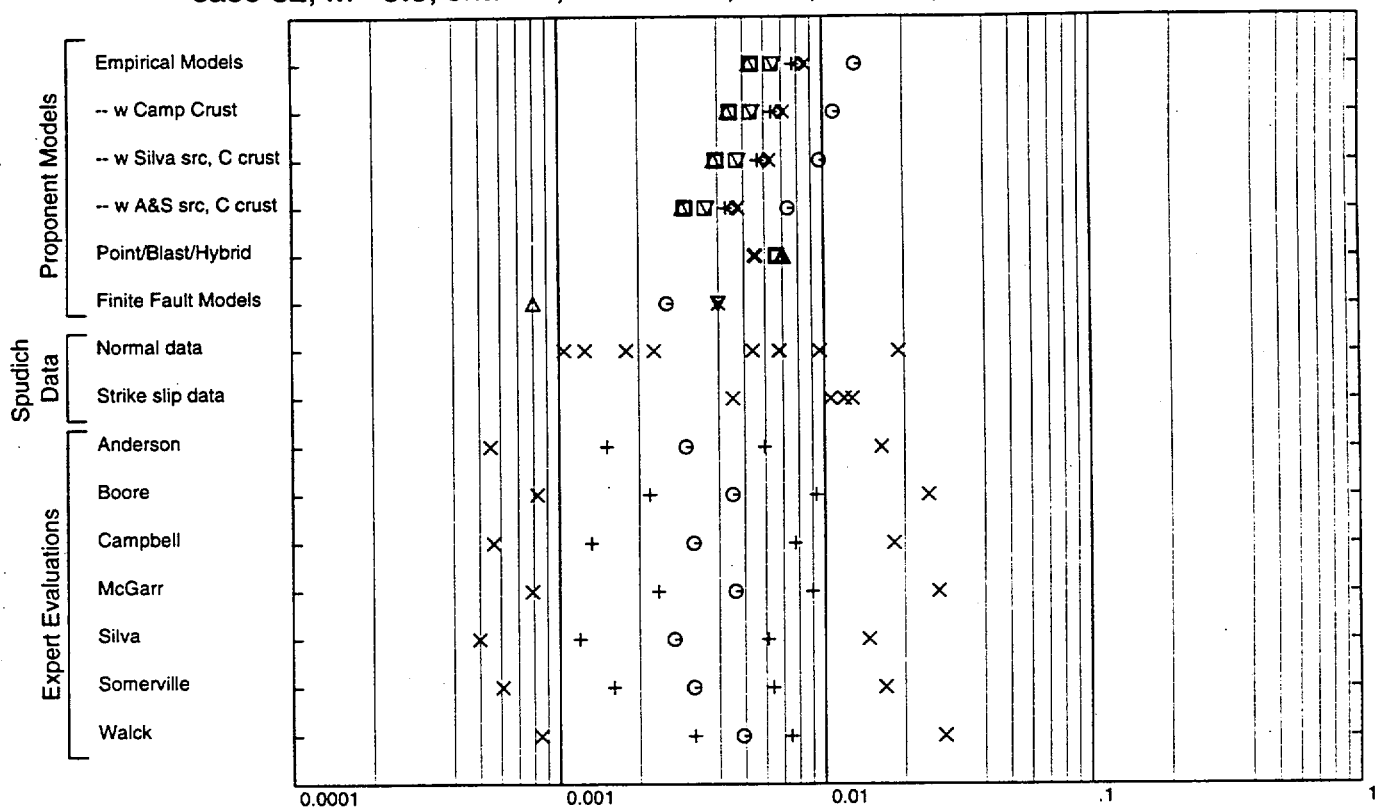


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



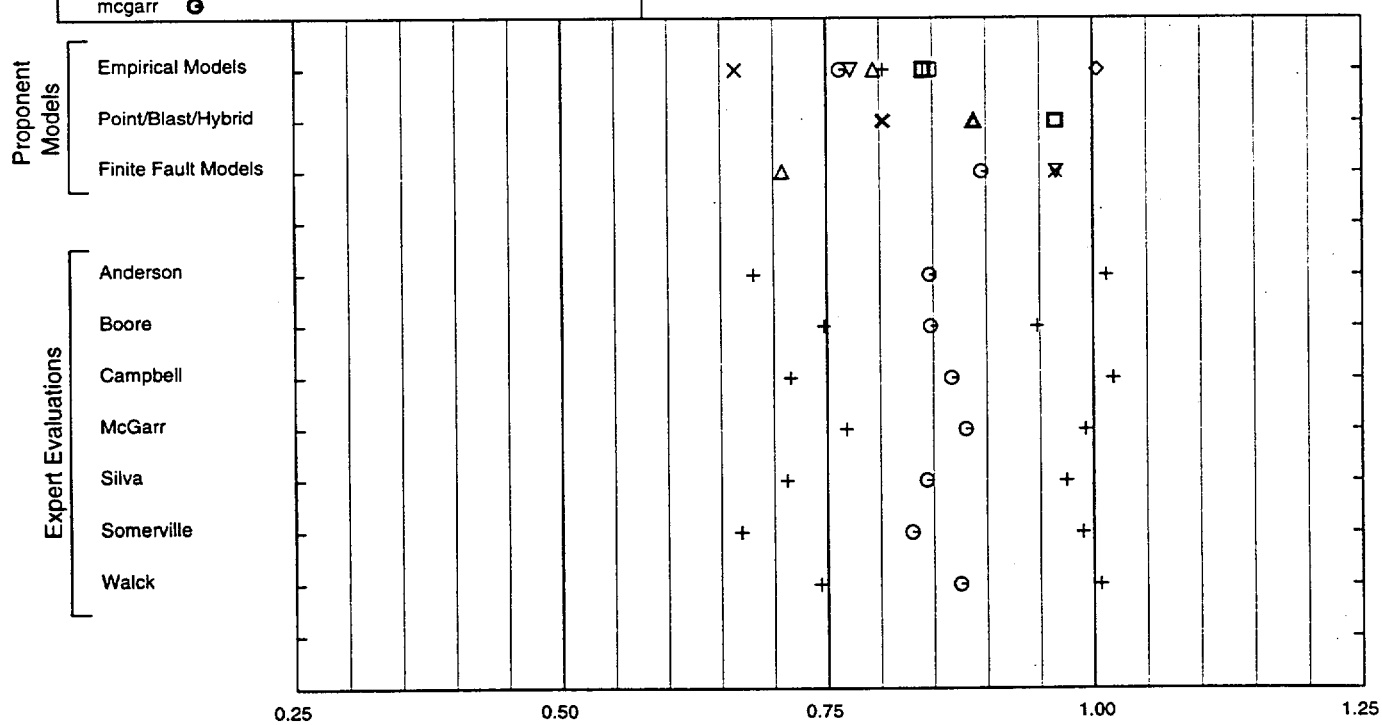
case 32, M= 5.8, shallow, xd= 50 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

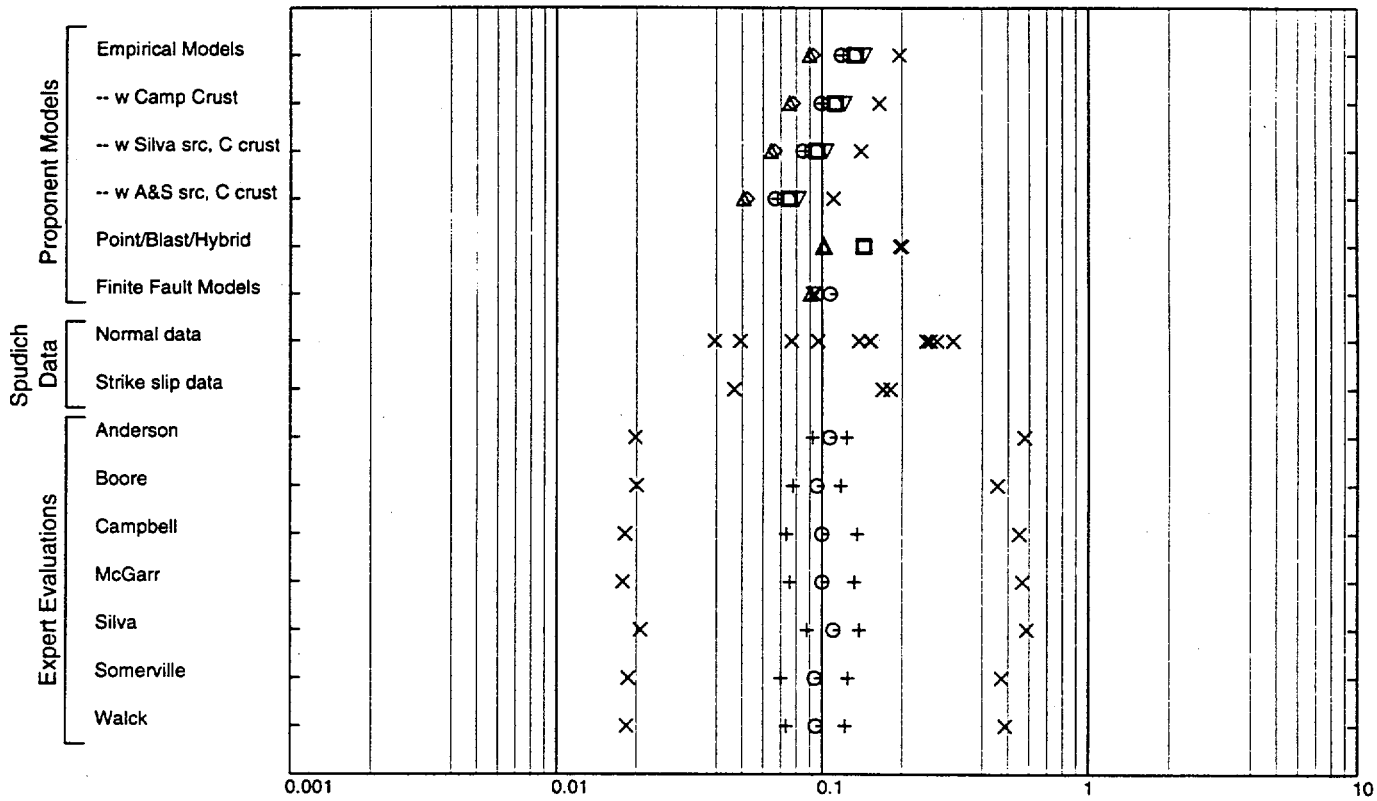
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

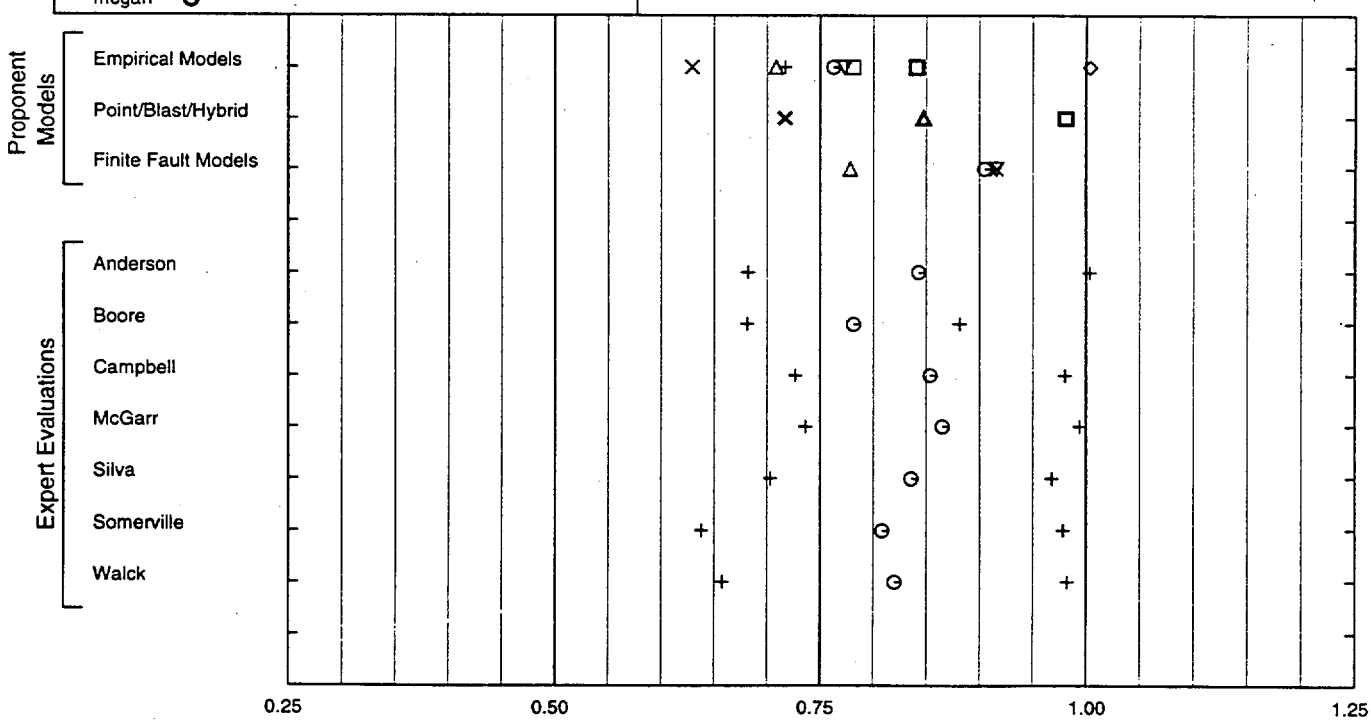
case 33, M= 6.5, shallow, xd= 5 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

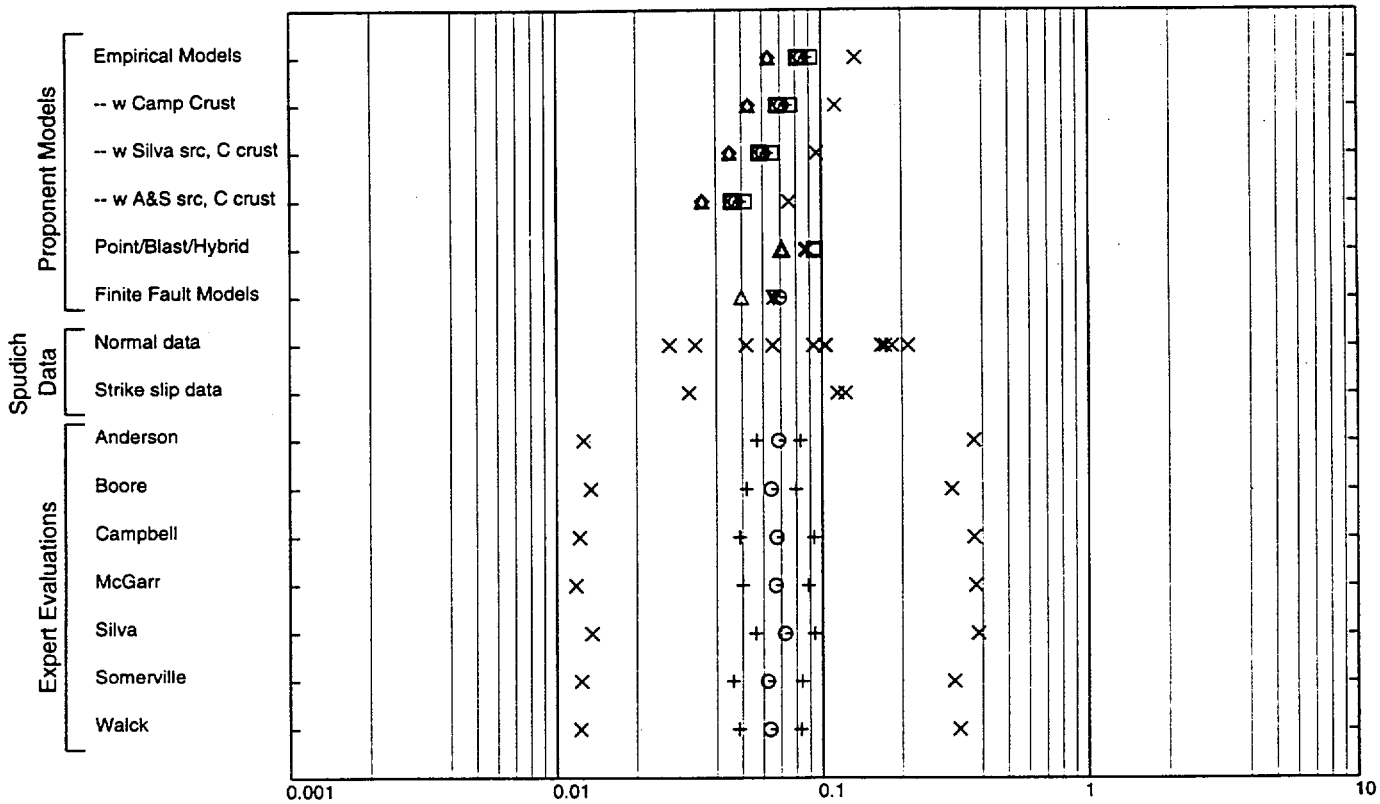
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

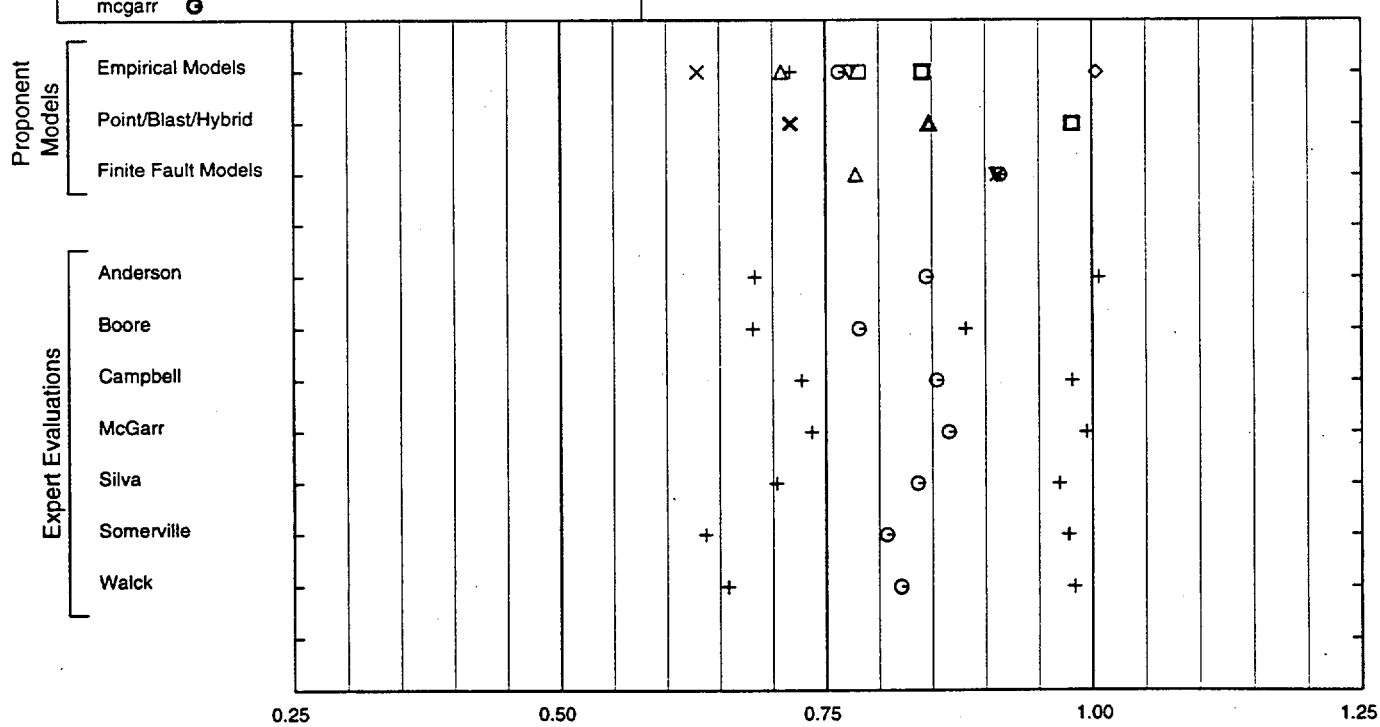
case 34, M= 6.5, shallow, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



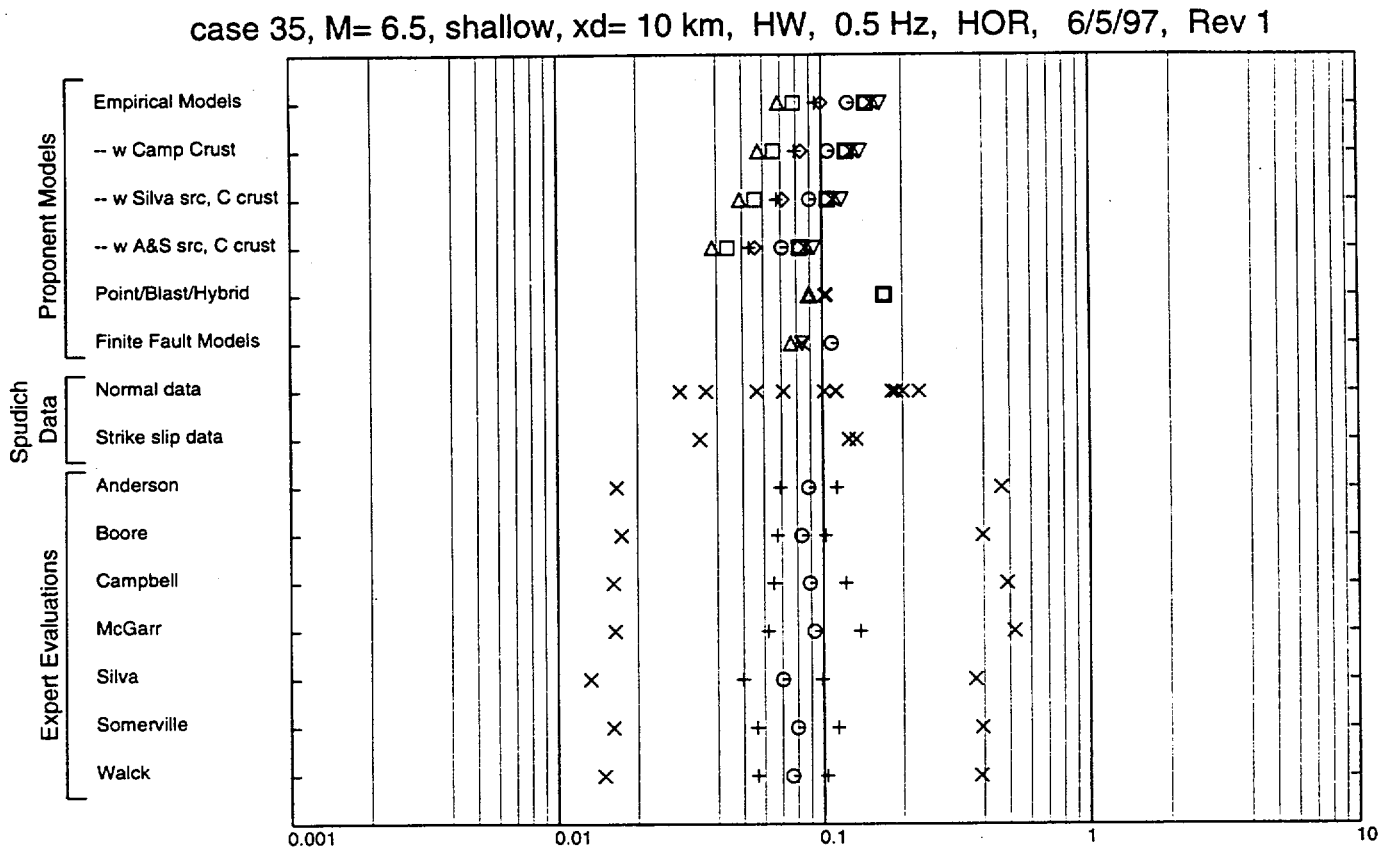
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

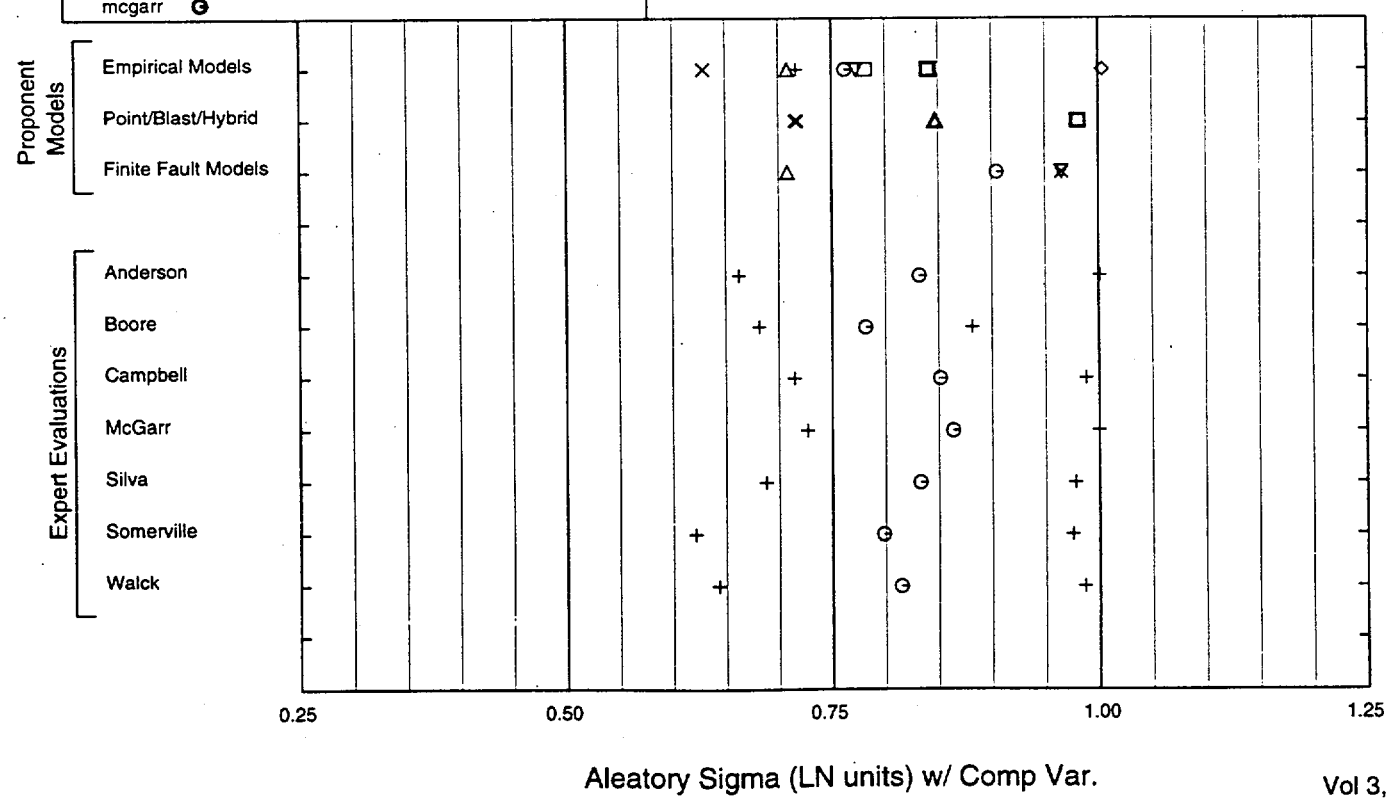


Aleatory Sigma (LN units) w/ Comp Var.

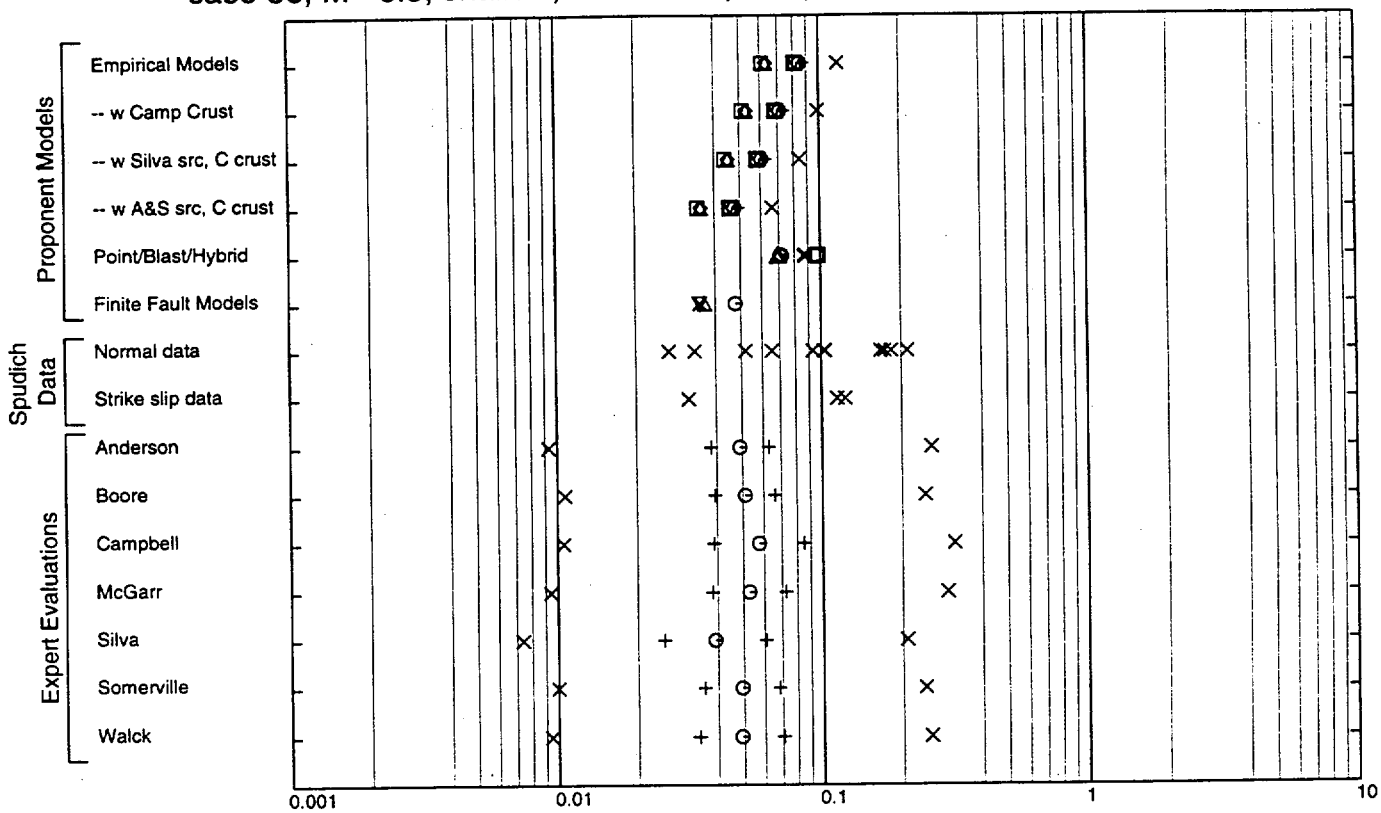


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



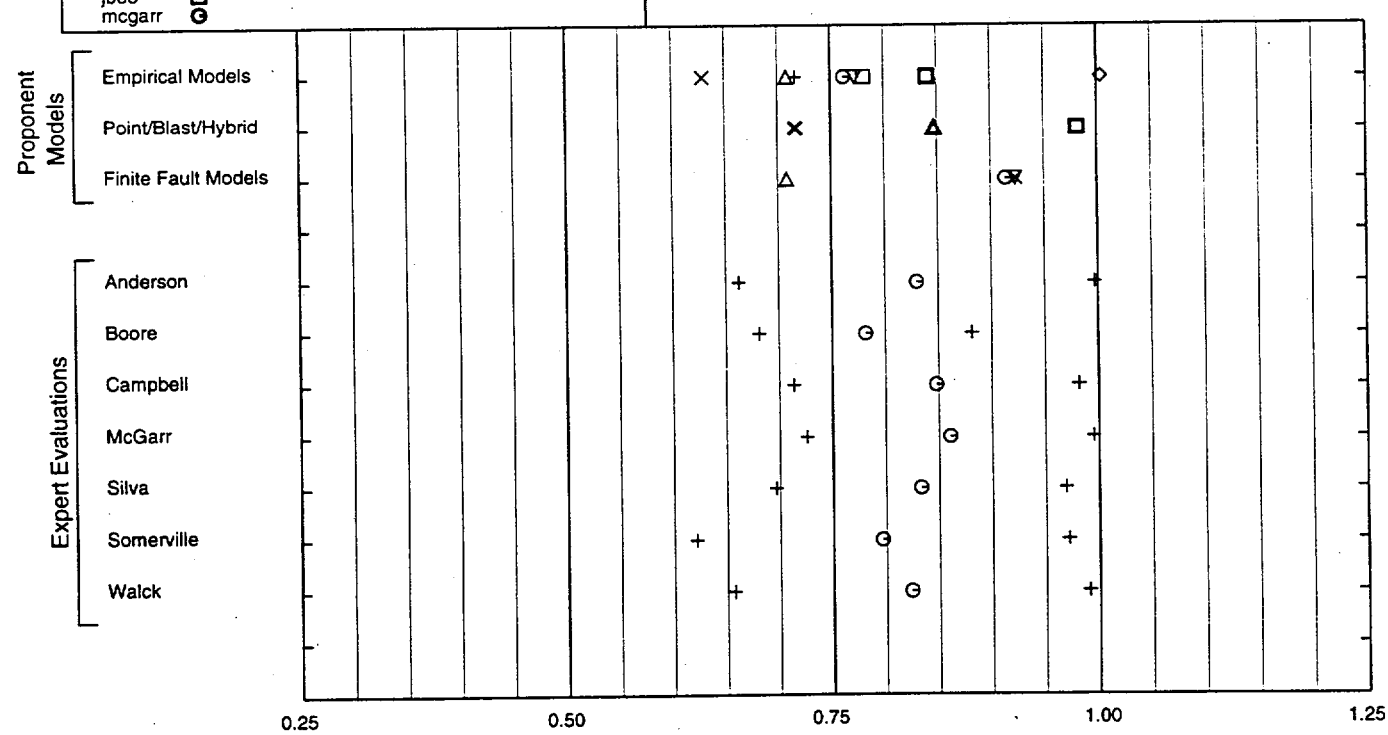
case 36, M= 6.5, shallow, xd=-10 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

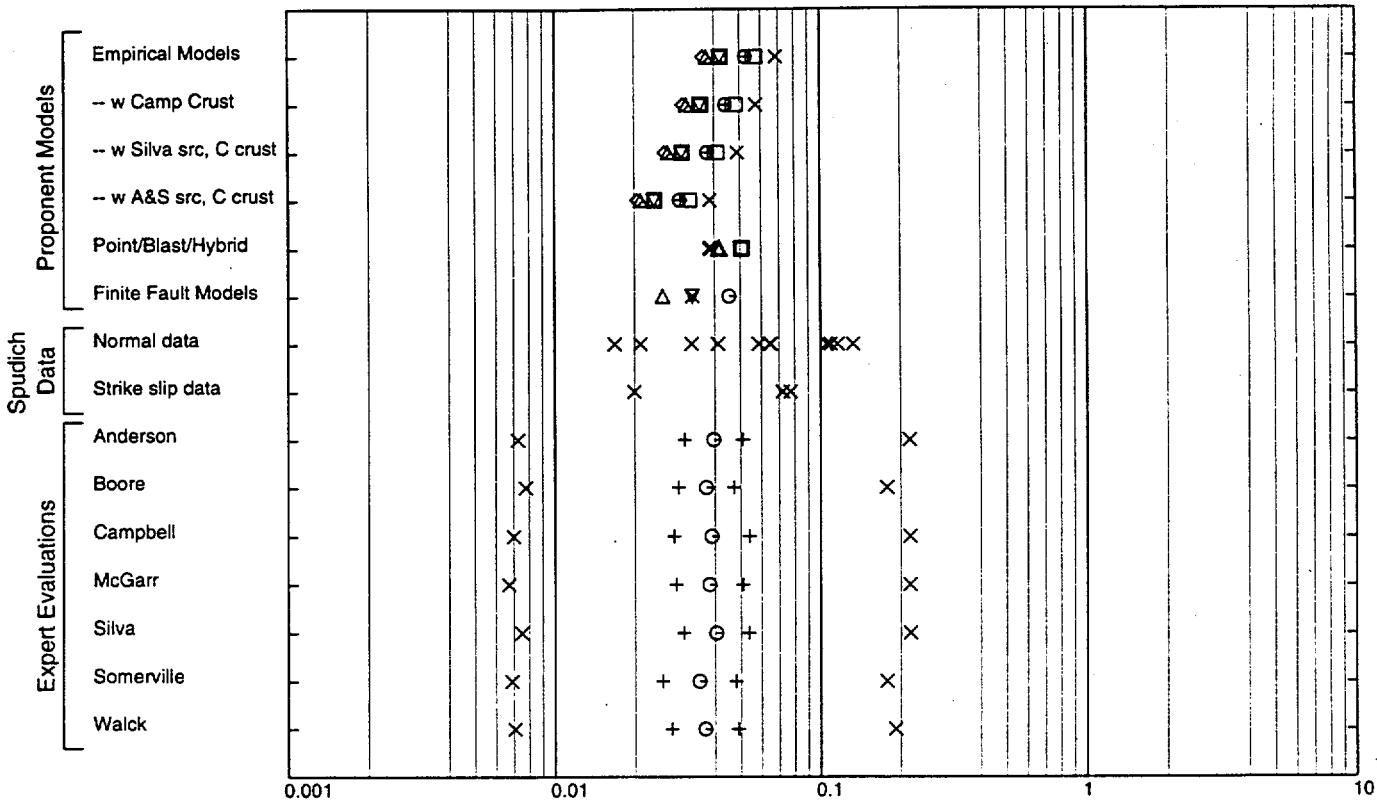
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

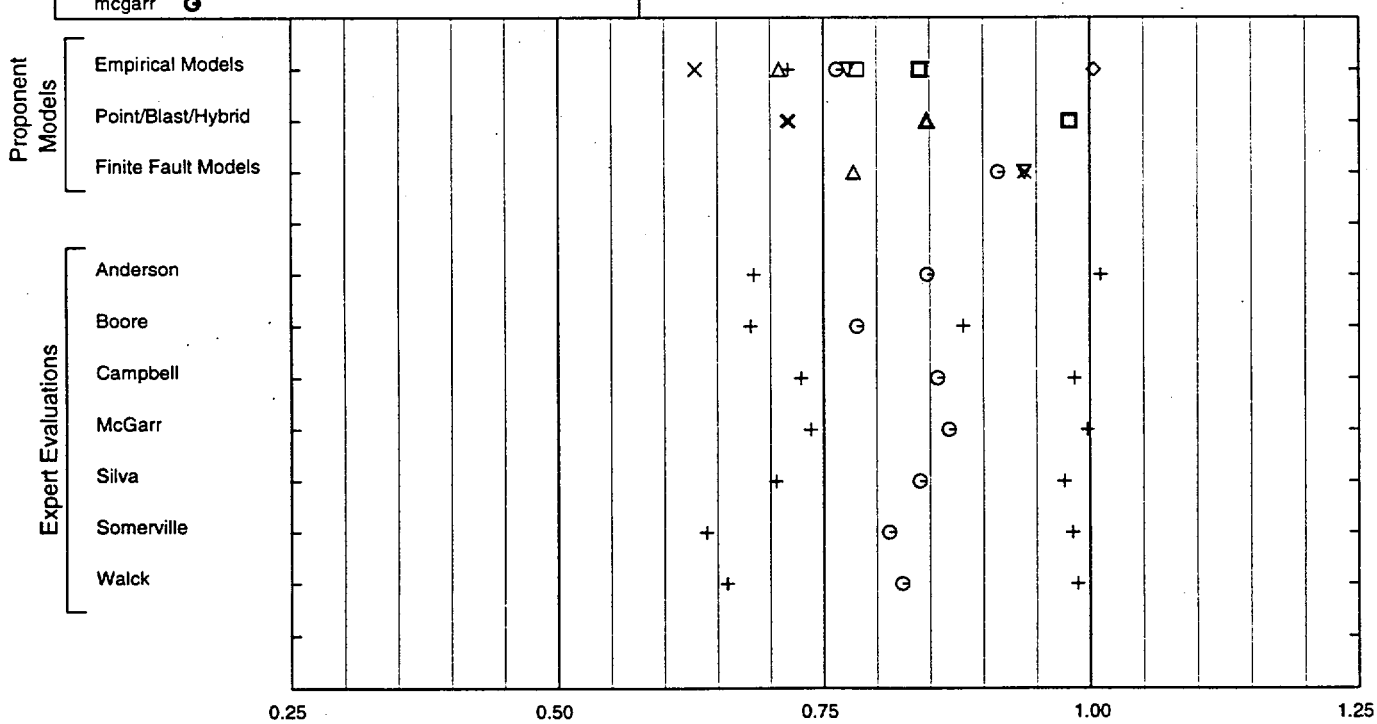
case 37, M= 6.5, shallow, xd= 20 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

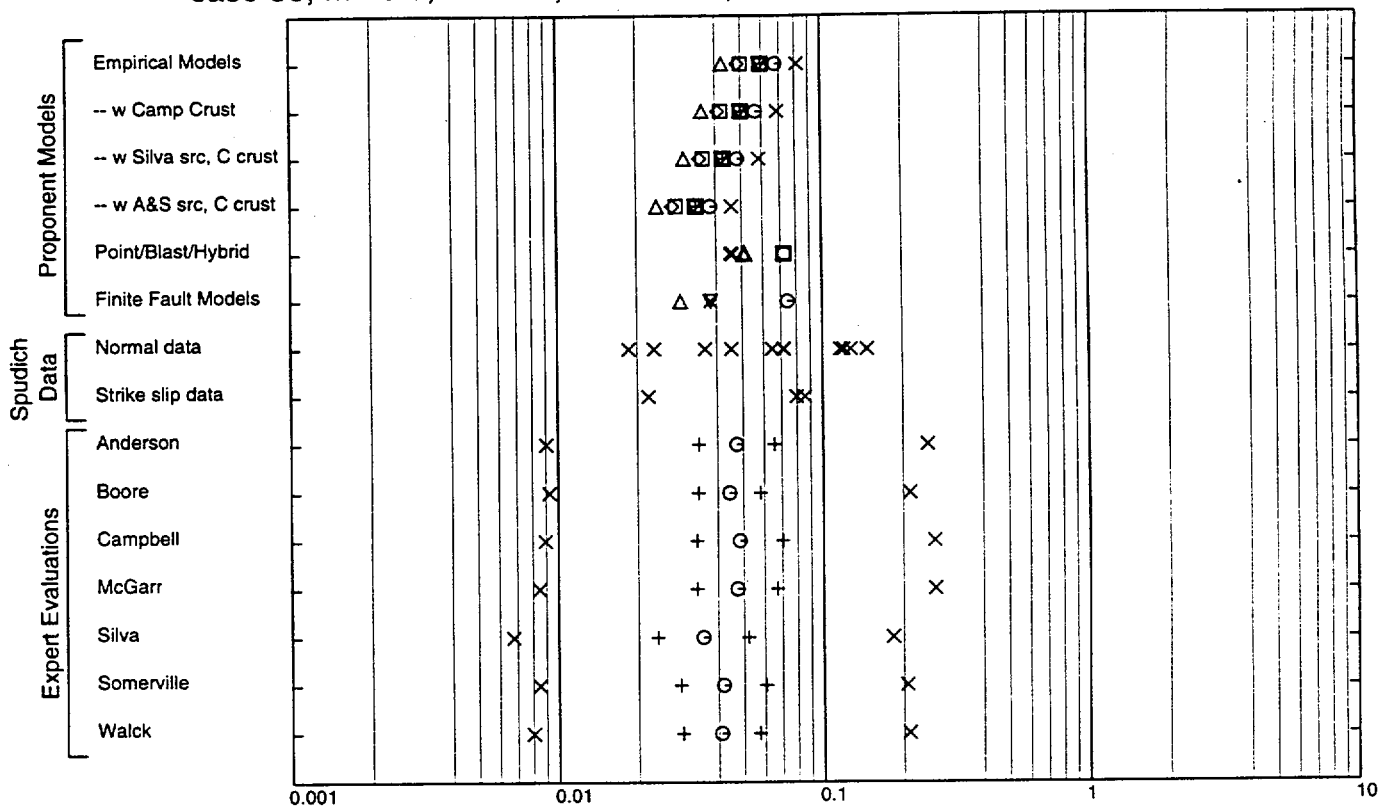
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

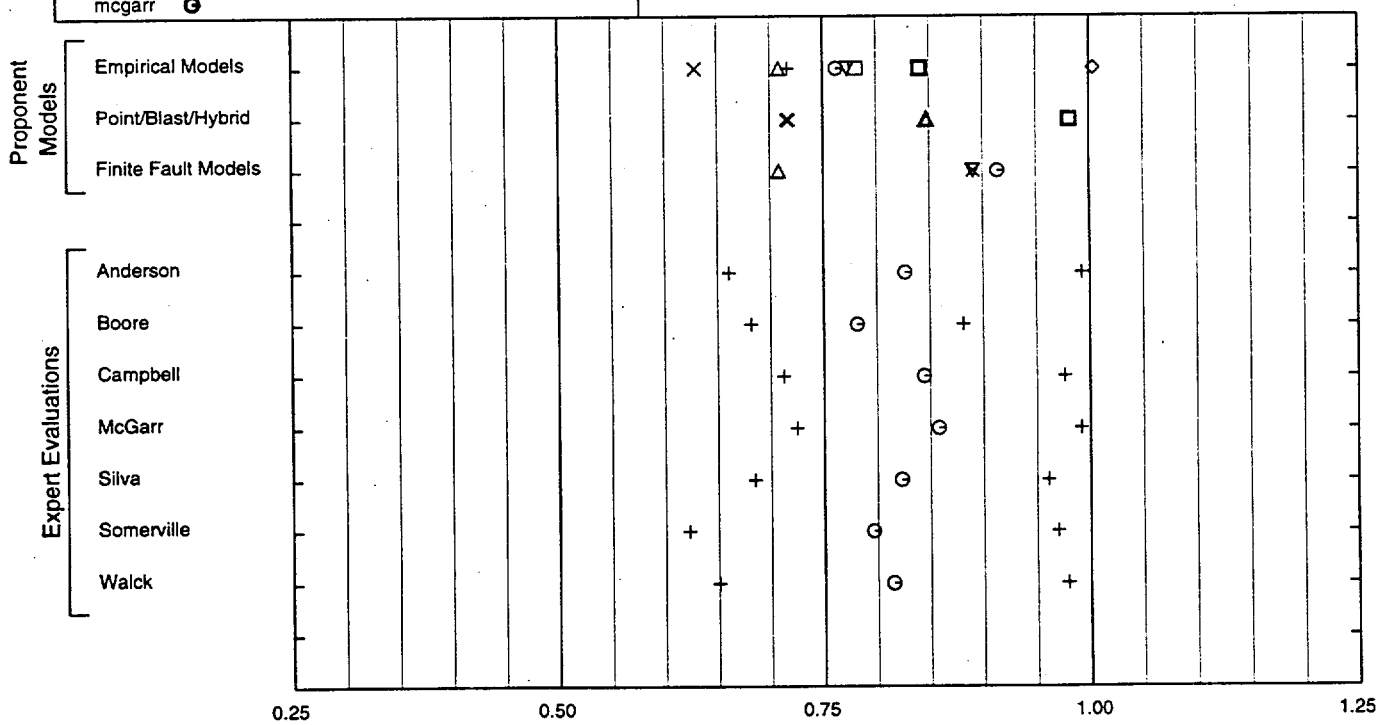
case 38, M= 6.5, shallow, xd= 20 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



LEGEND

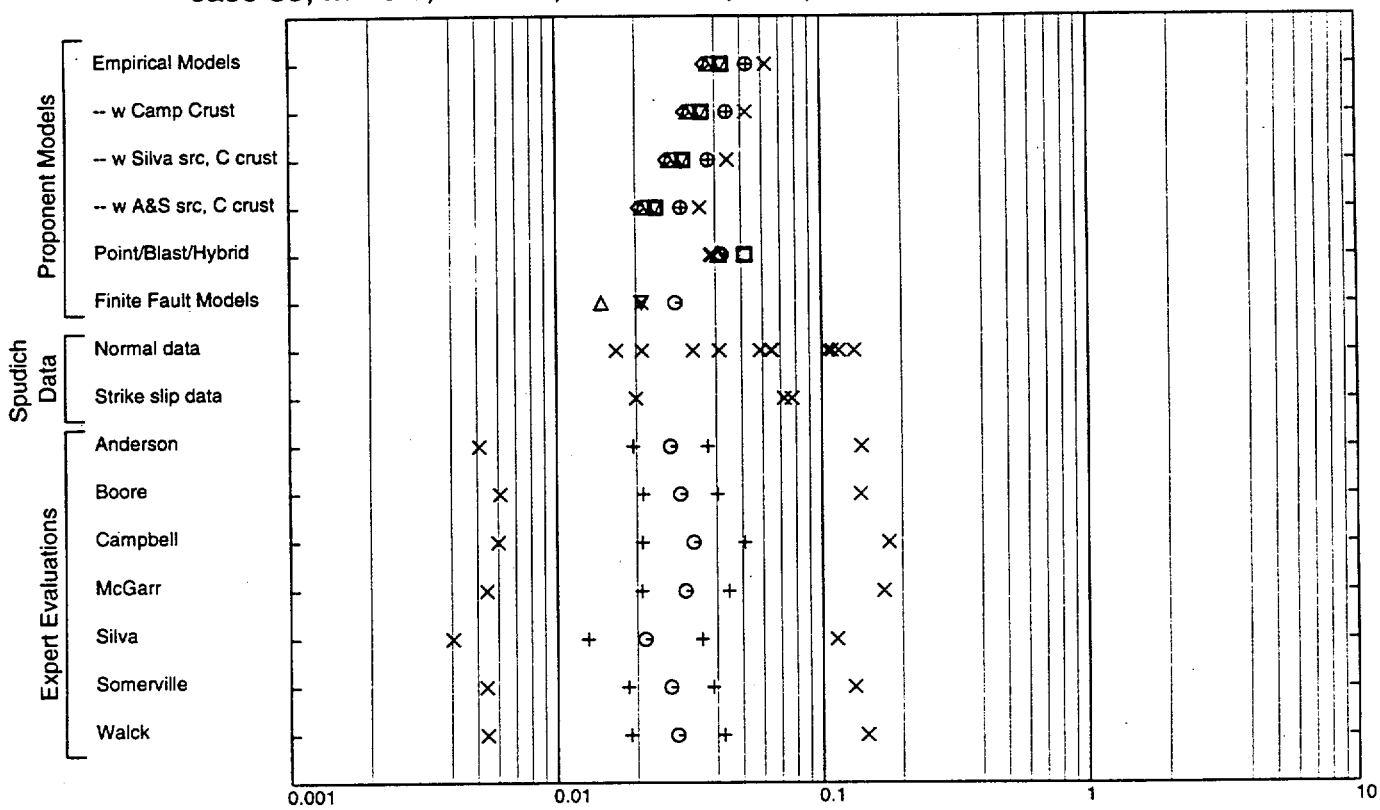
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

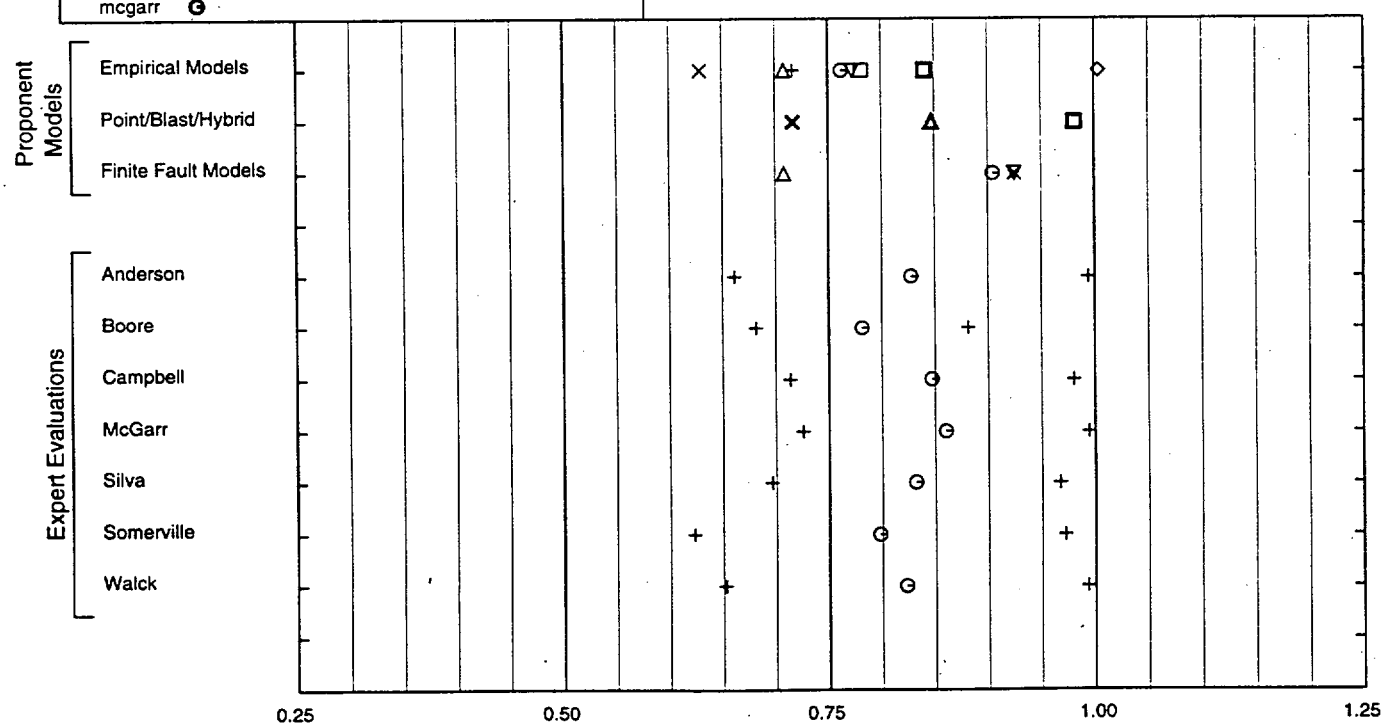
case 39, M= 6.5, shallow, xd=-20 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

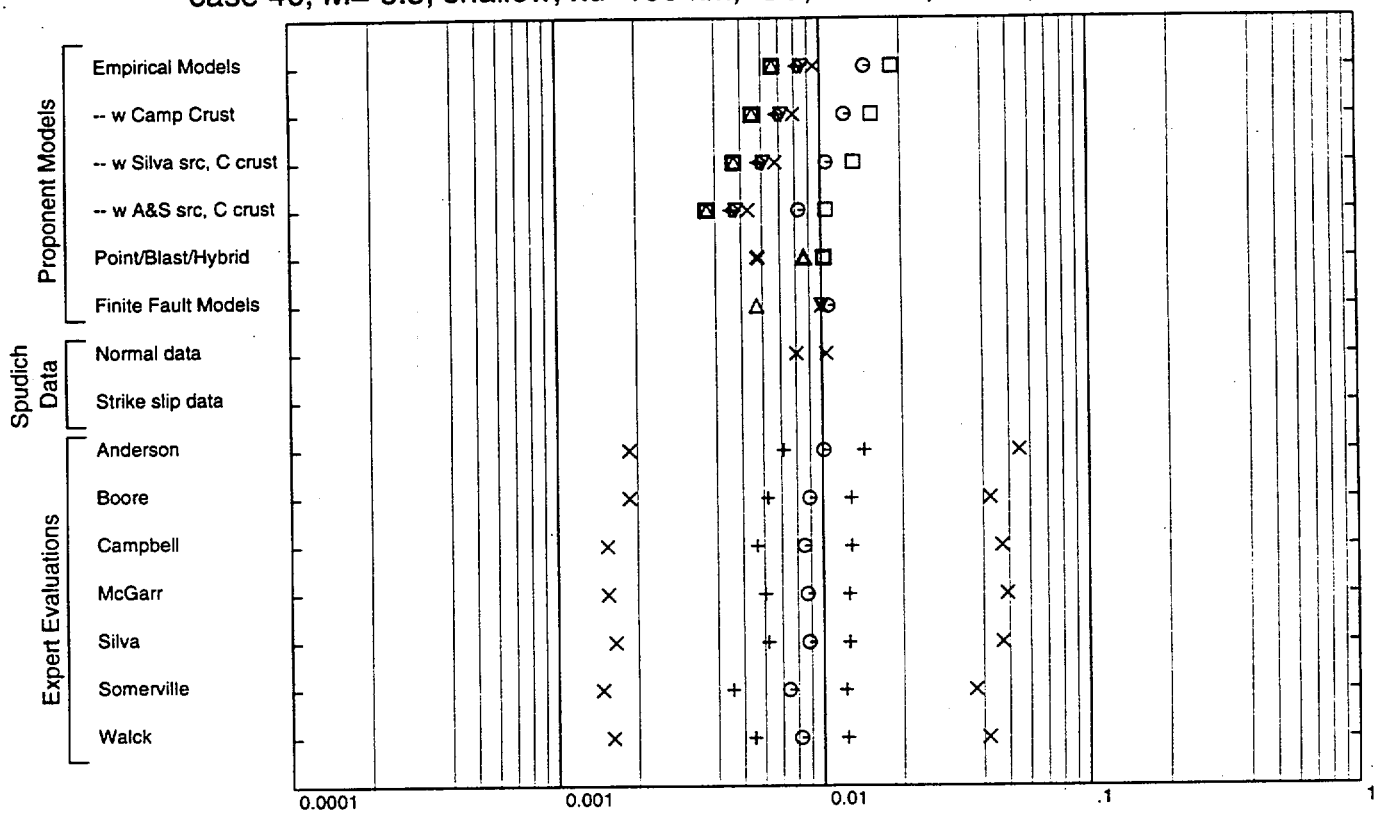
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

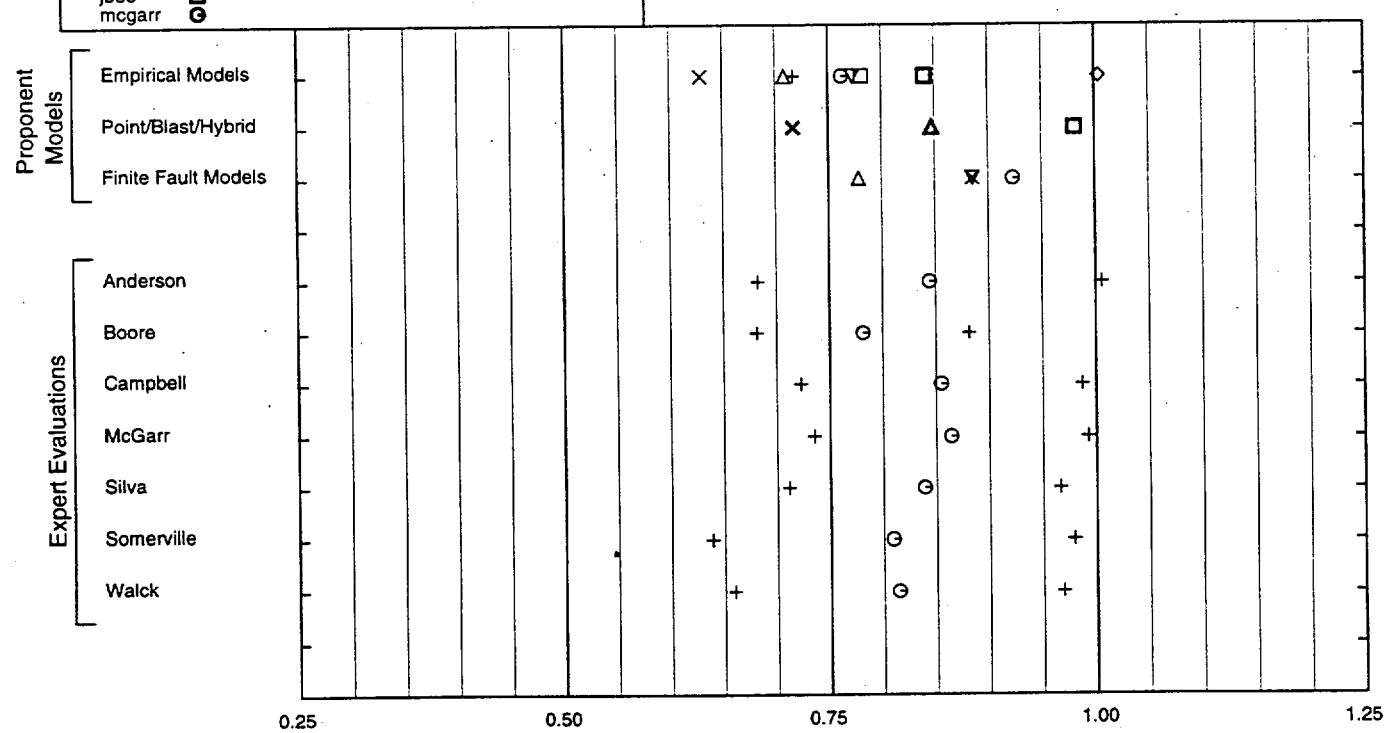
case 40, M= 6.5, shallow, xd=100 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



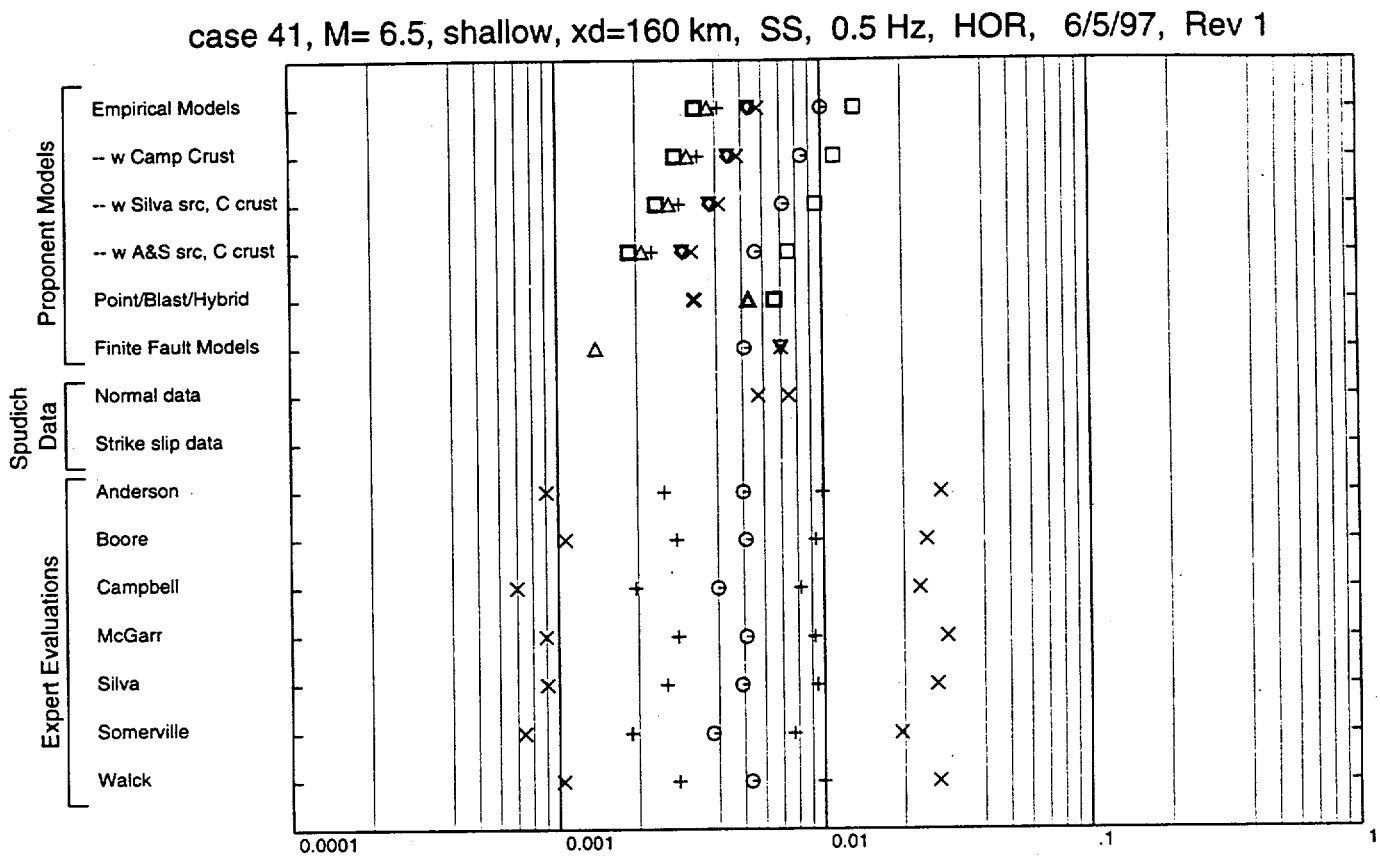
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

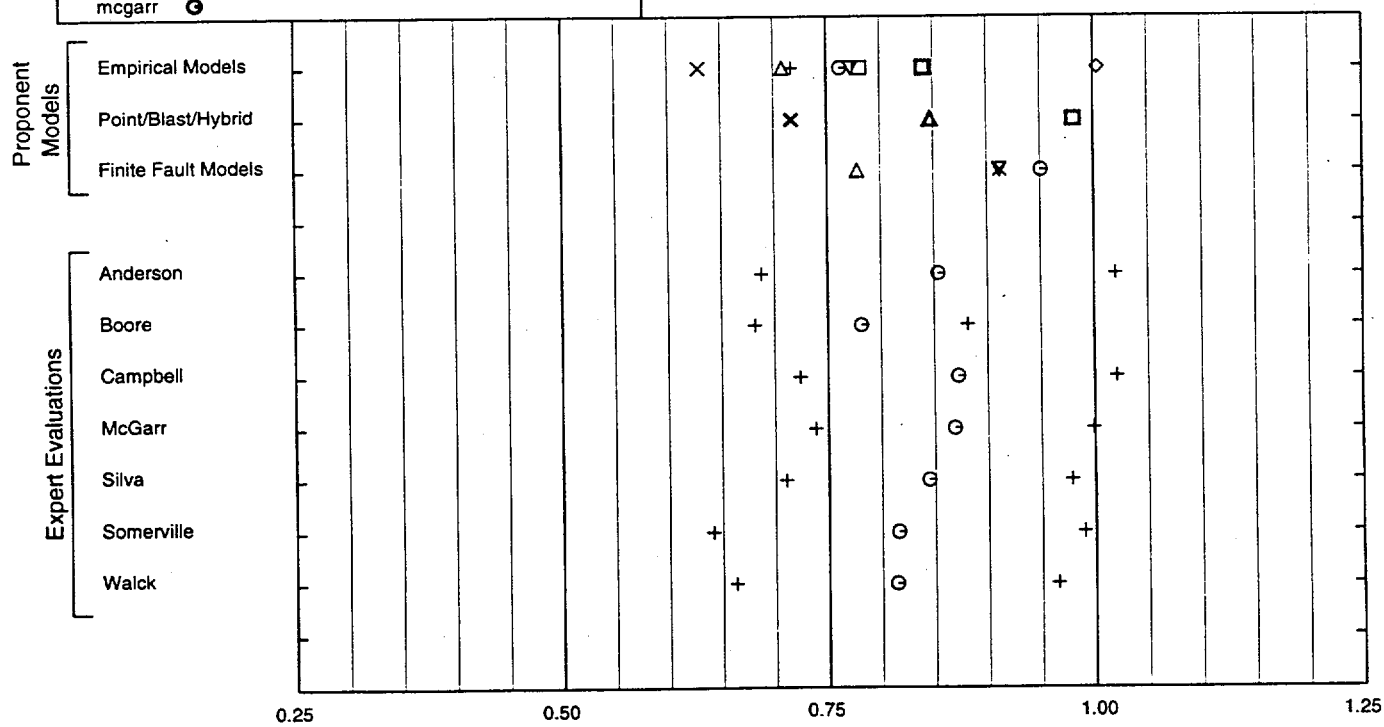


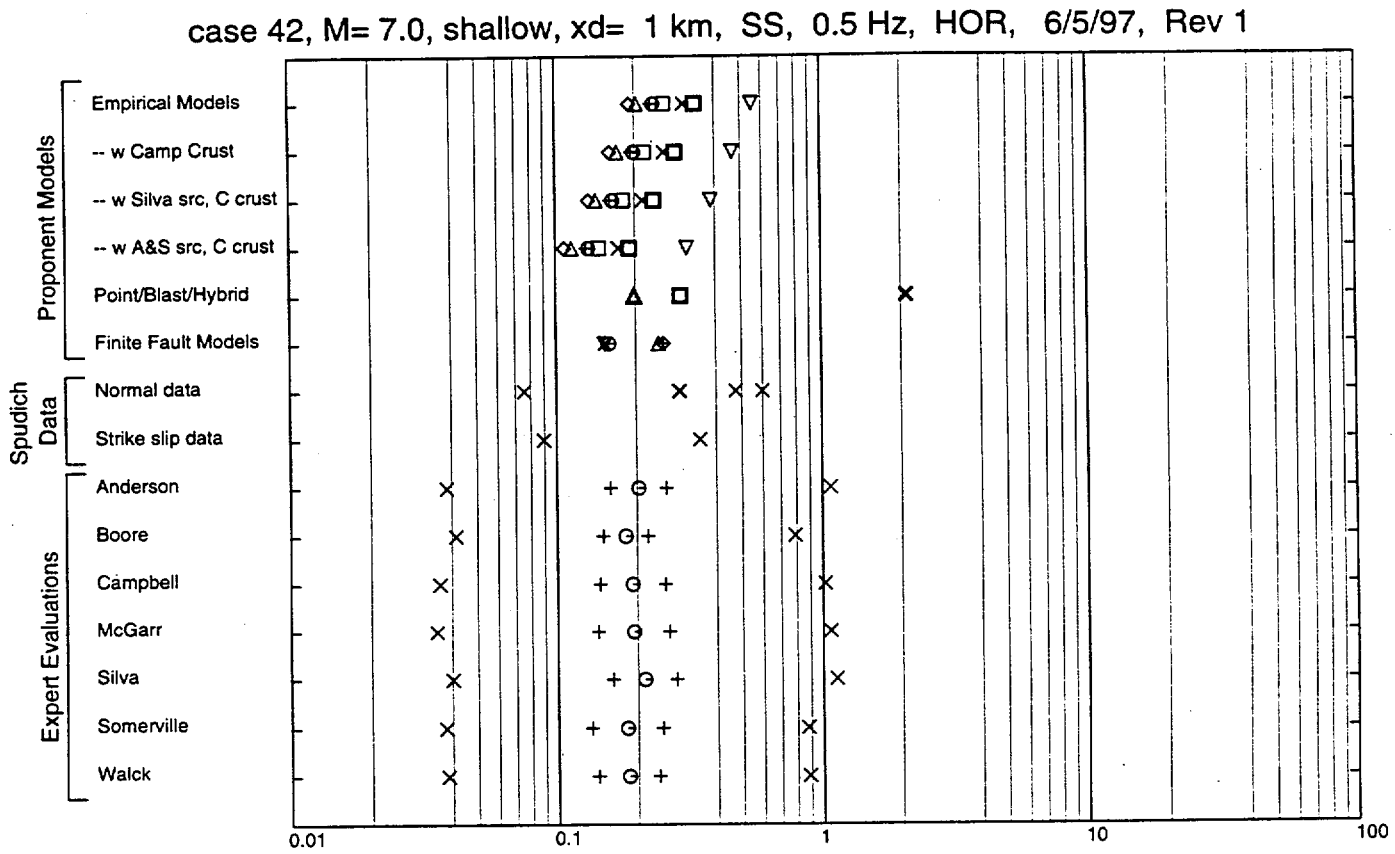
Aleatory Sigma (LN units) w/ Comp Var.



LEGEND

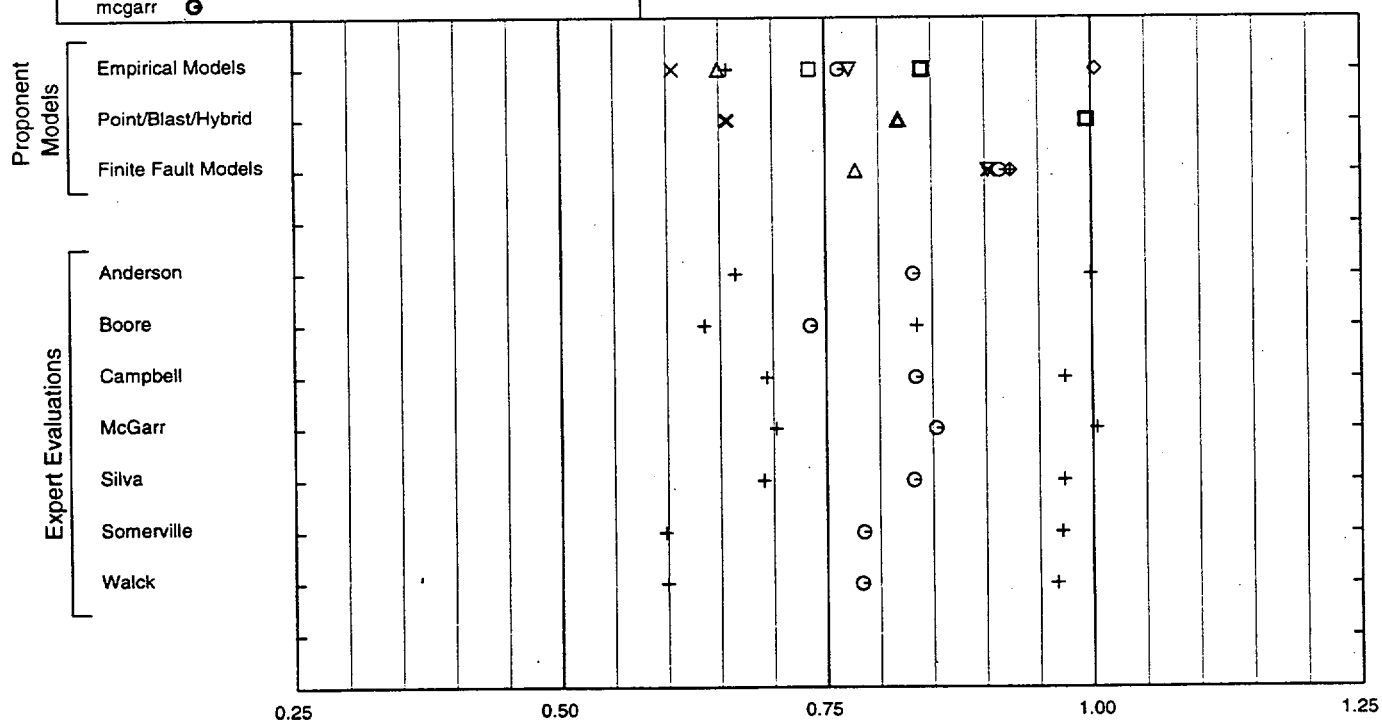
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



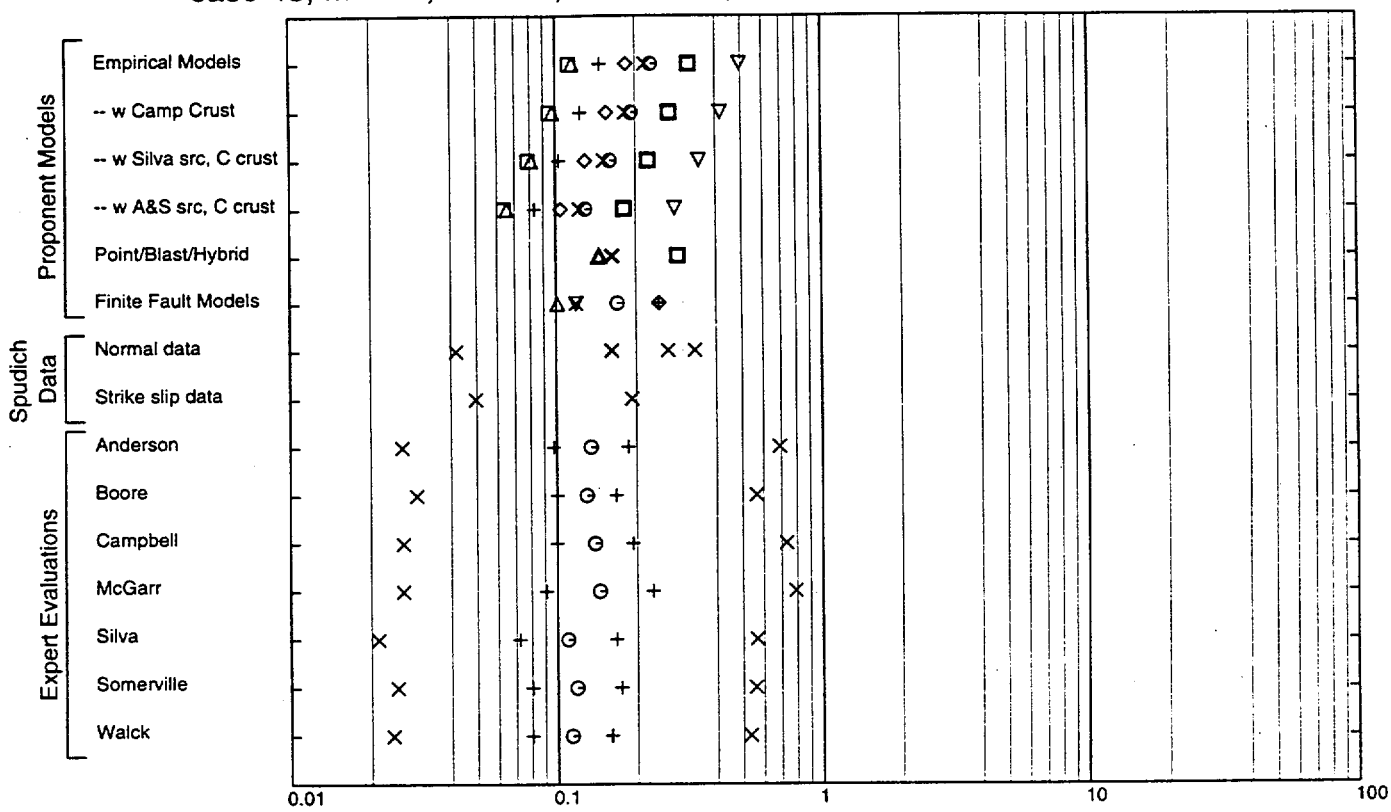


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



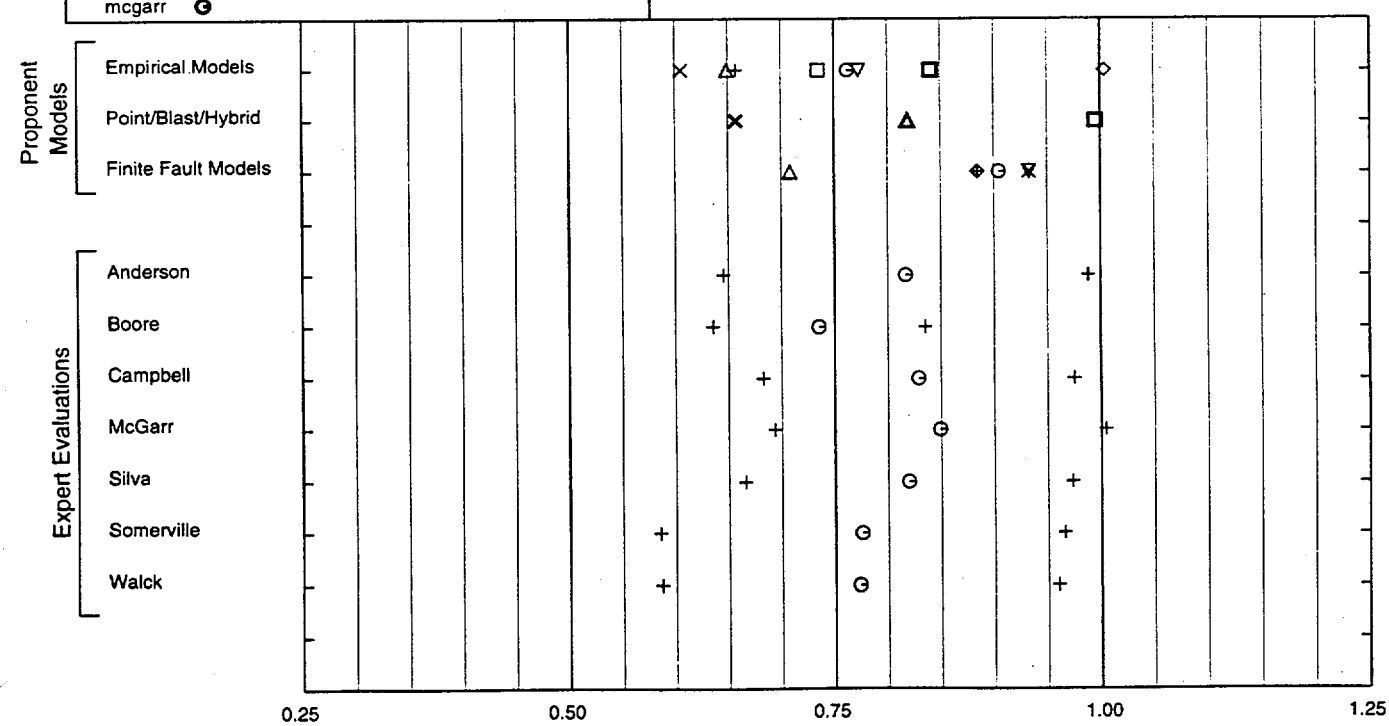
case 43, M= 7.0, shallow, xd= 10 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

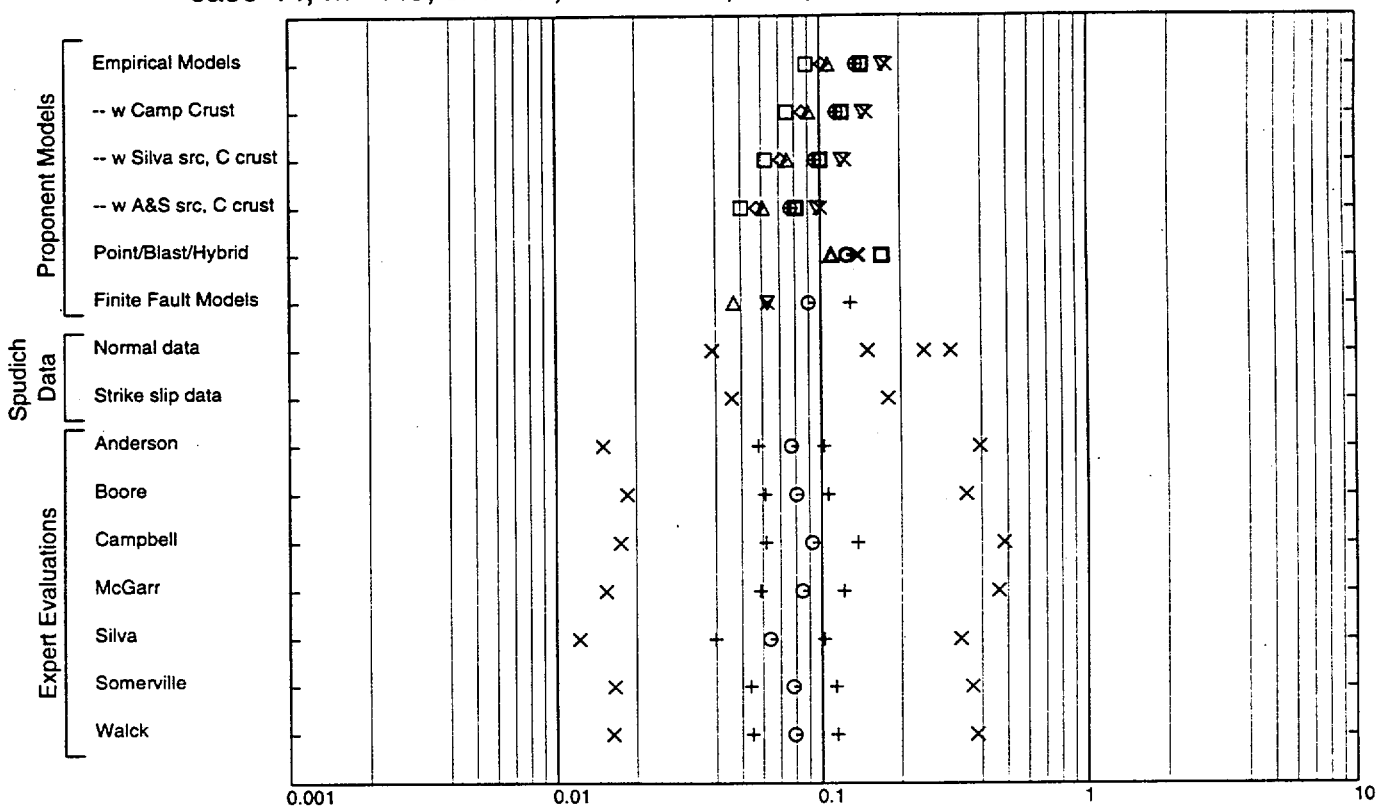
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

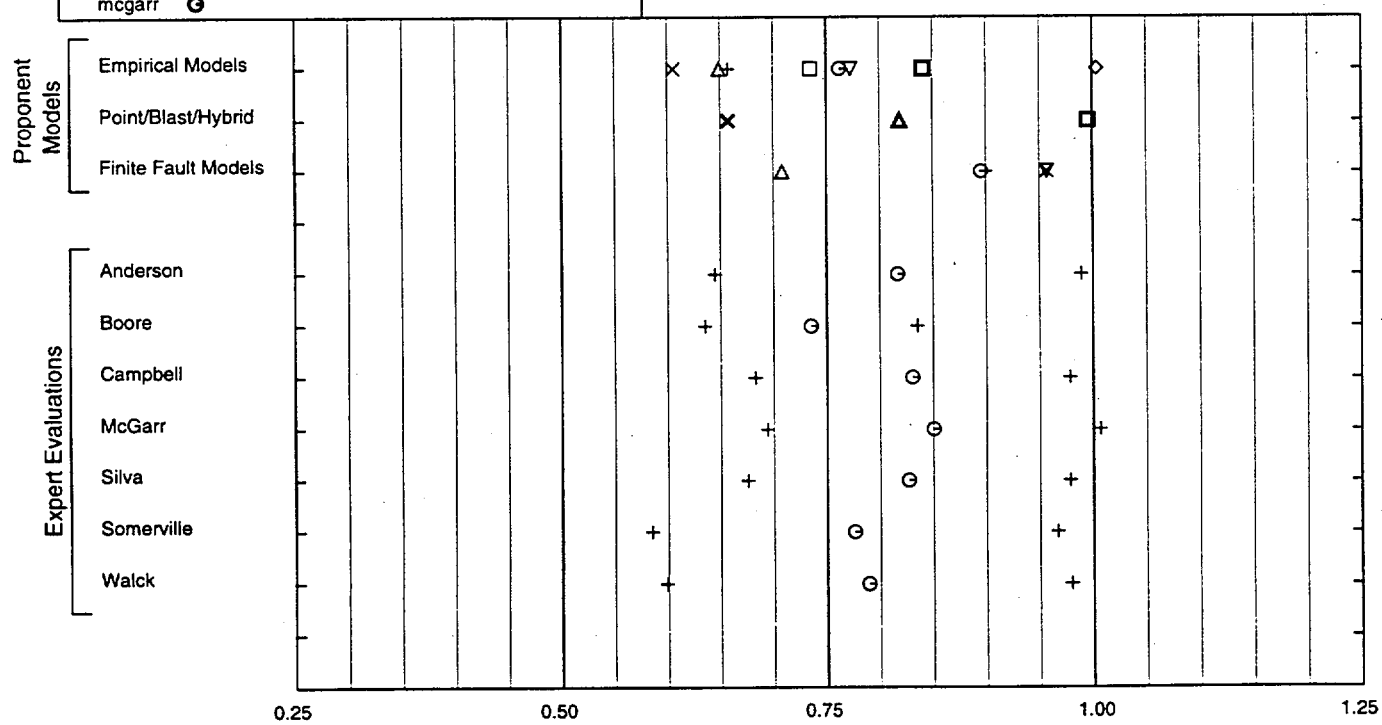
case 44, M= 7.0, shallow, xd=-10 km, FW, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

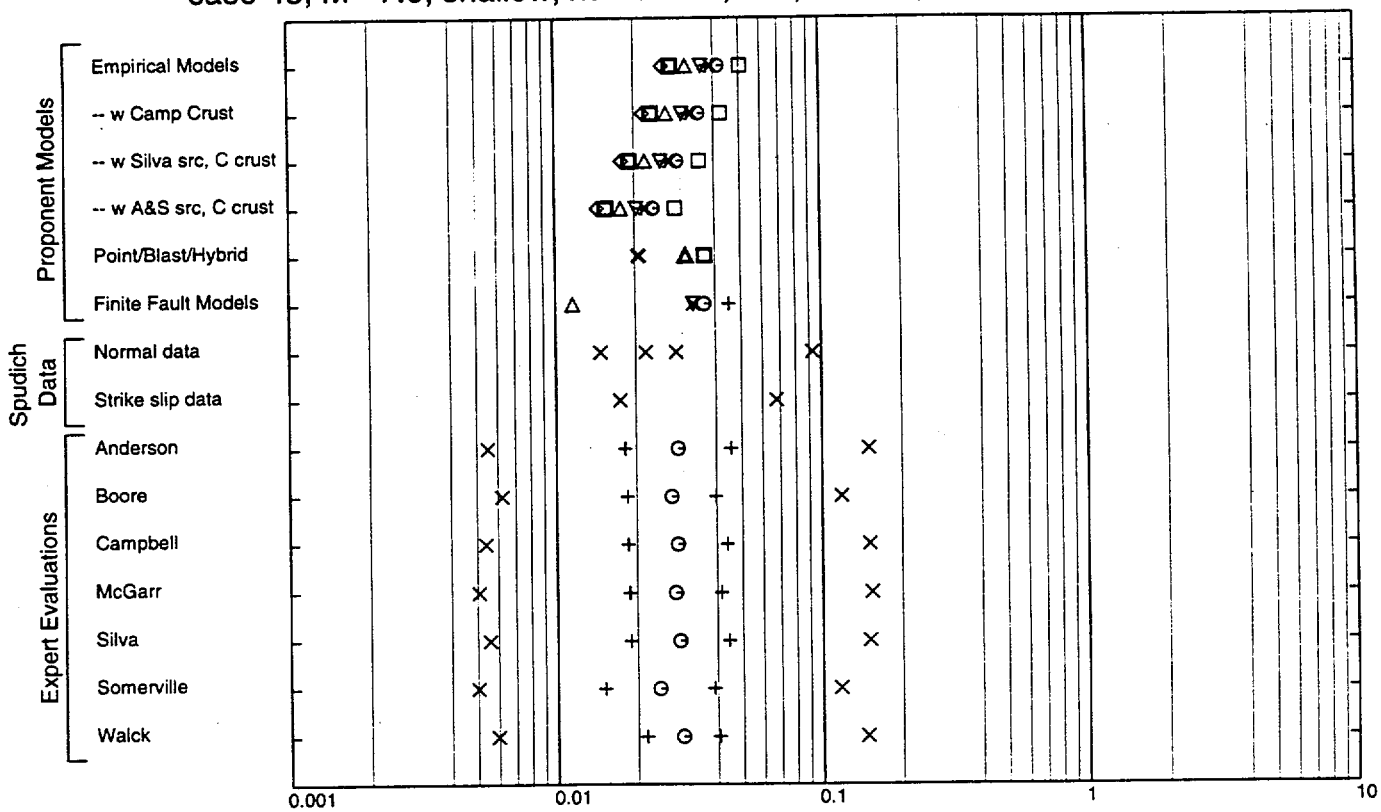
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

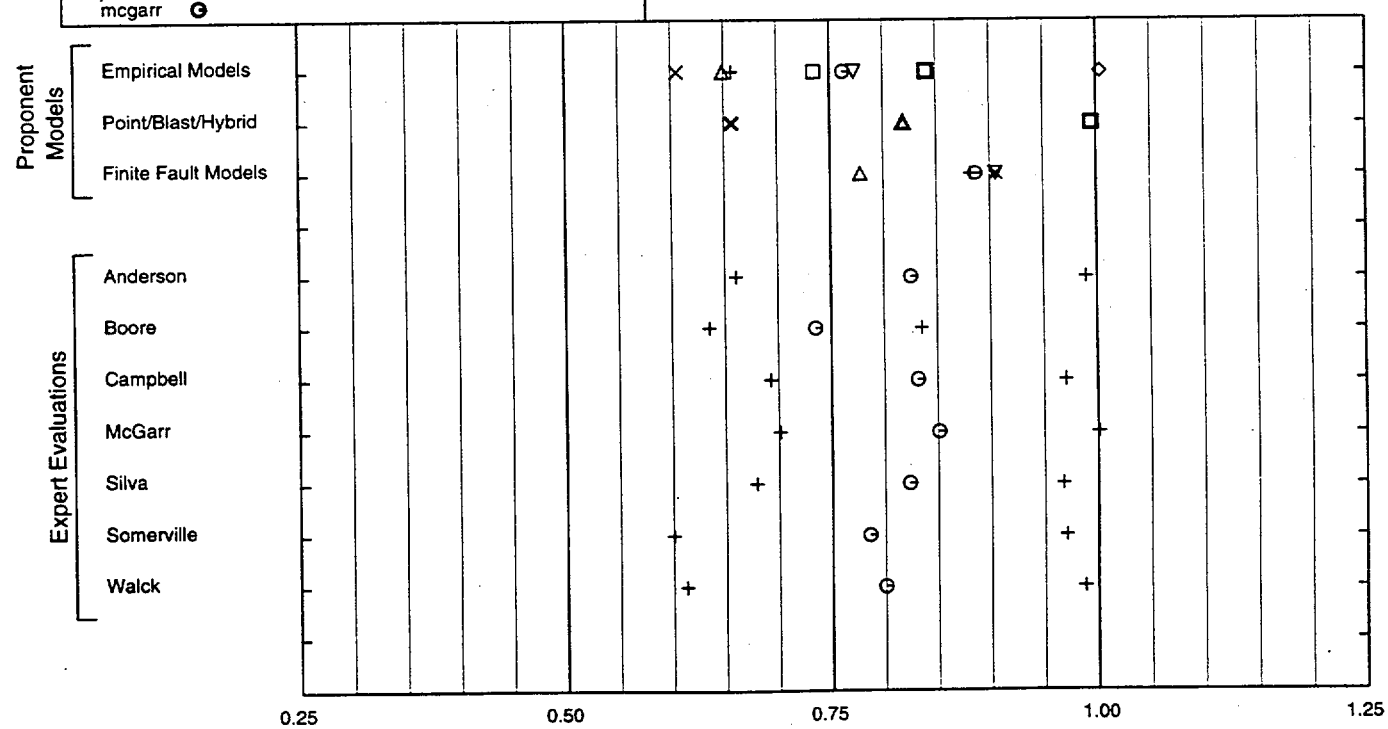
case 45, M= 7.0, shallow, xd= 50 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

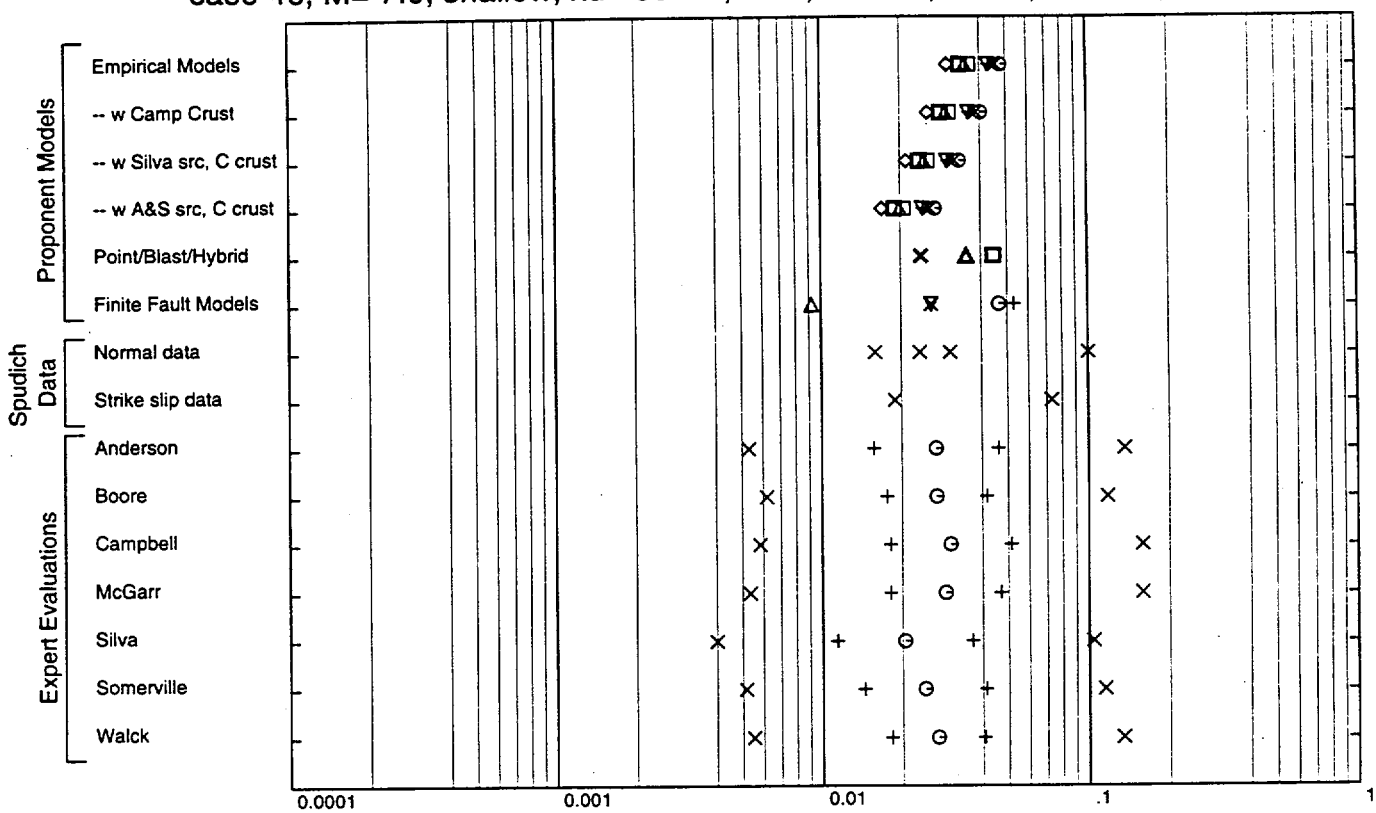
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



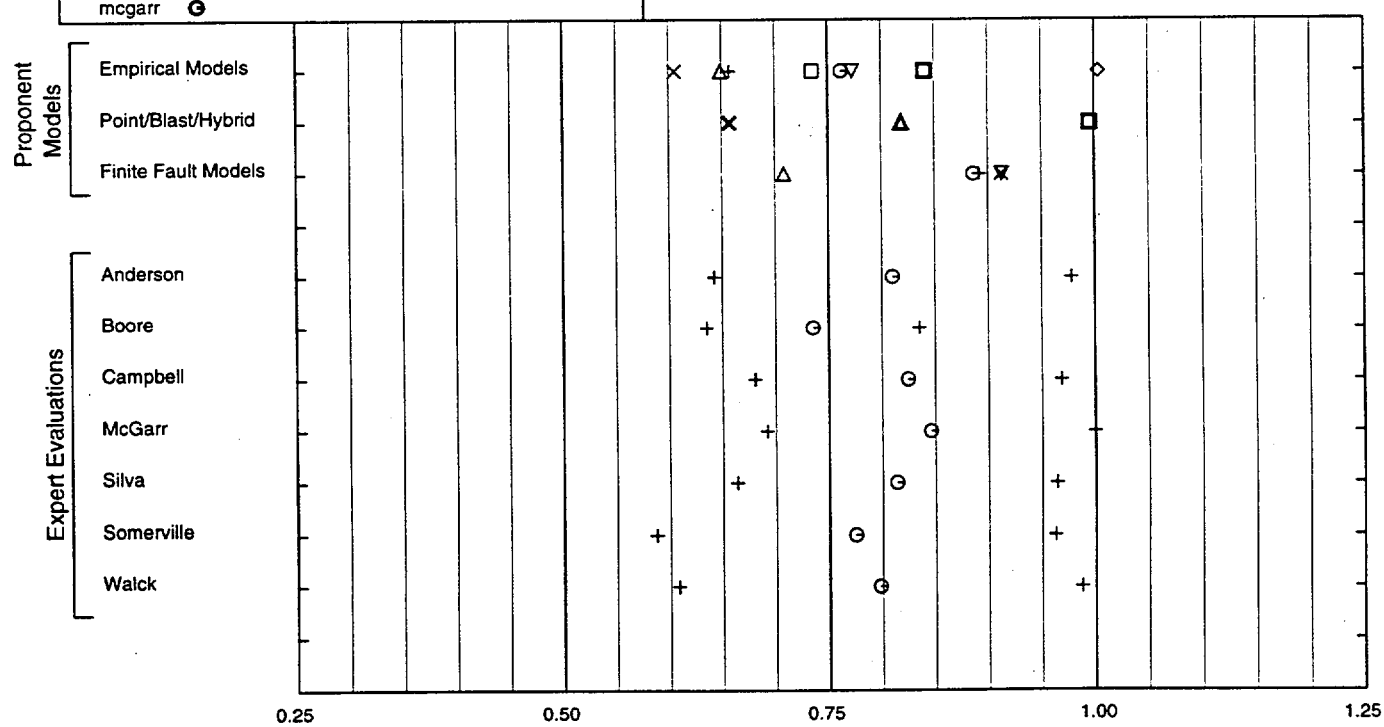
Aleatory Sigma (LN units) w/ Comp Var.

case 46, M= 7.0, shallow, xd= 50 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1

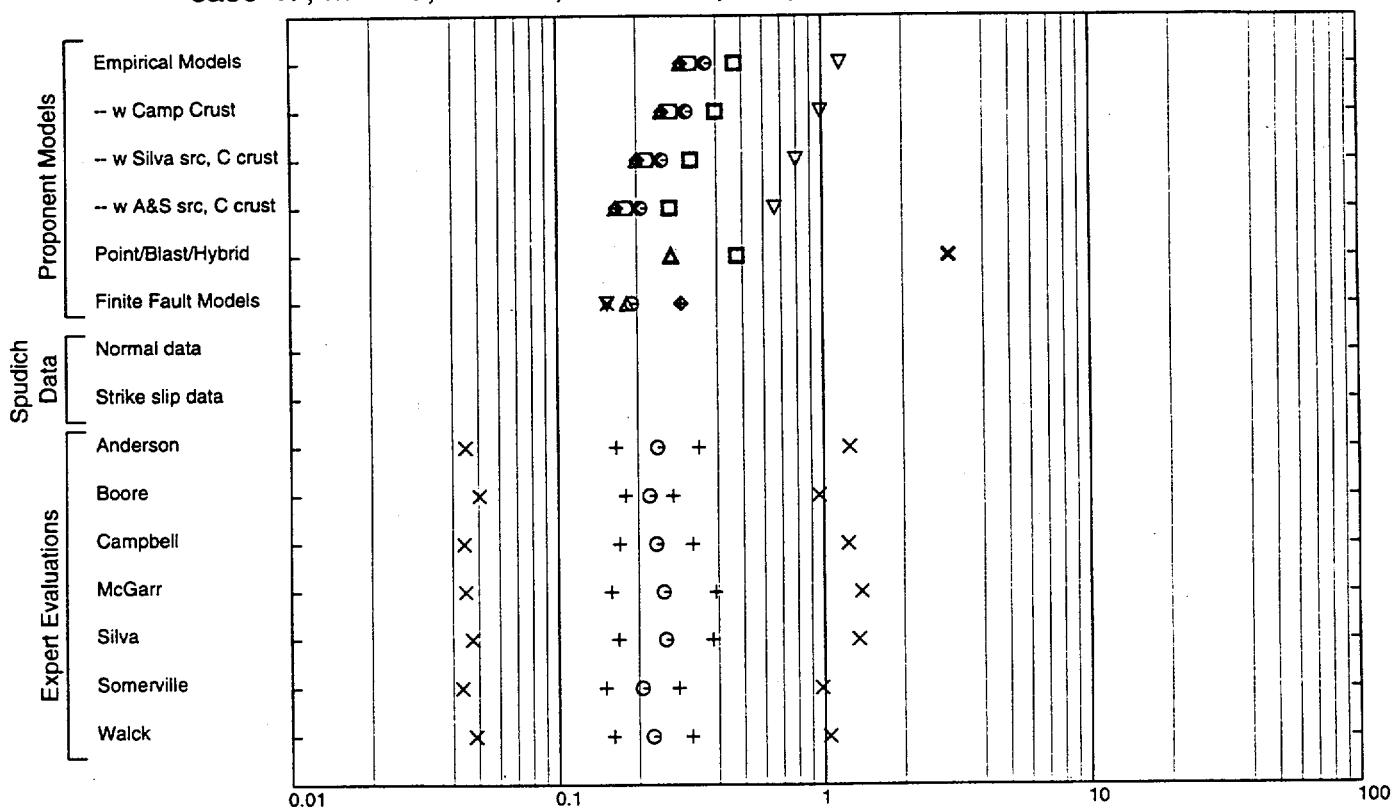


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



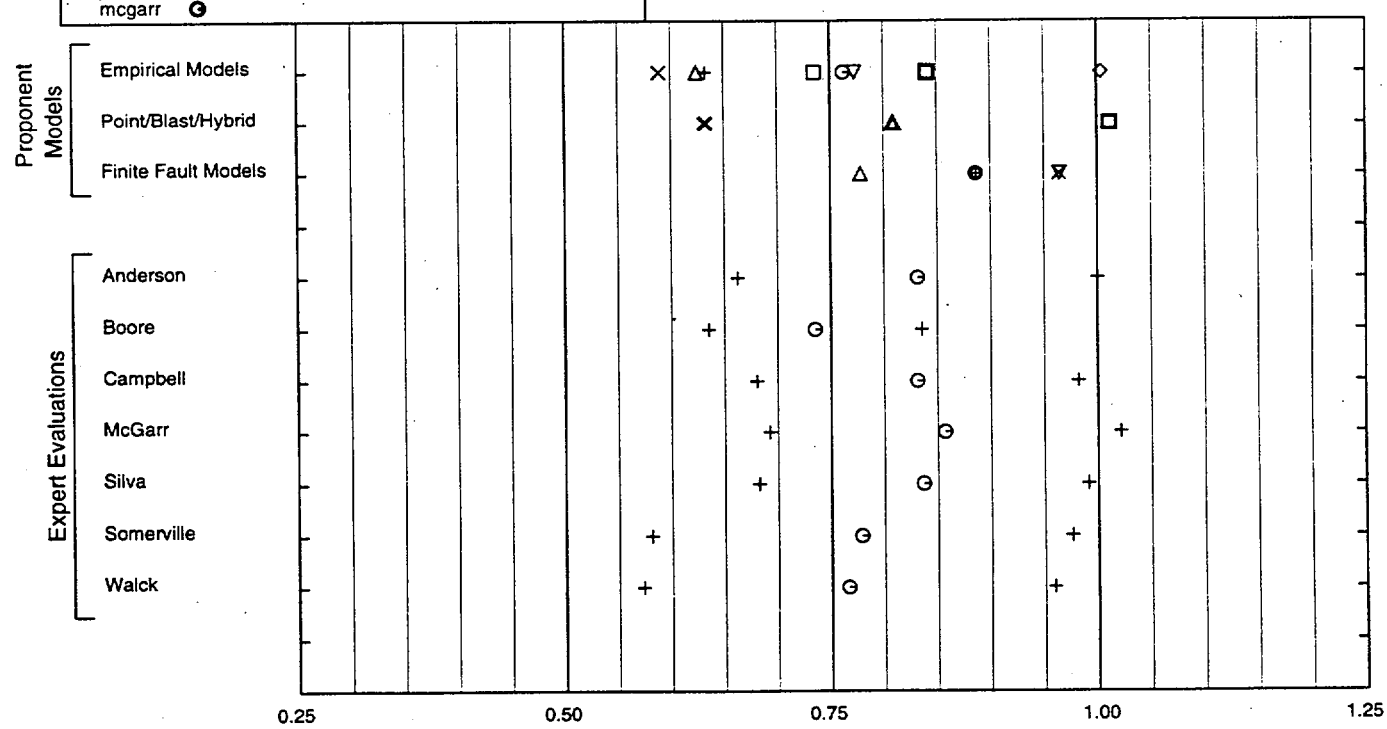
case 47, M= 7.5, shallow, xd= 1 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

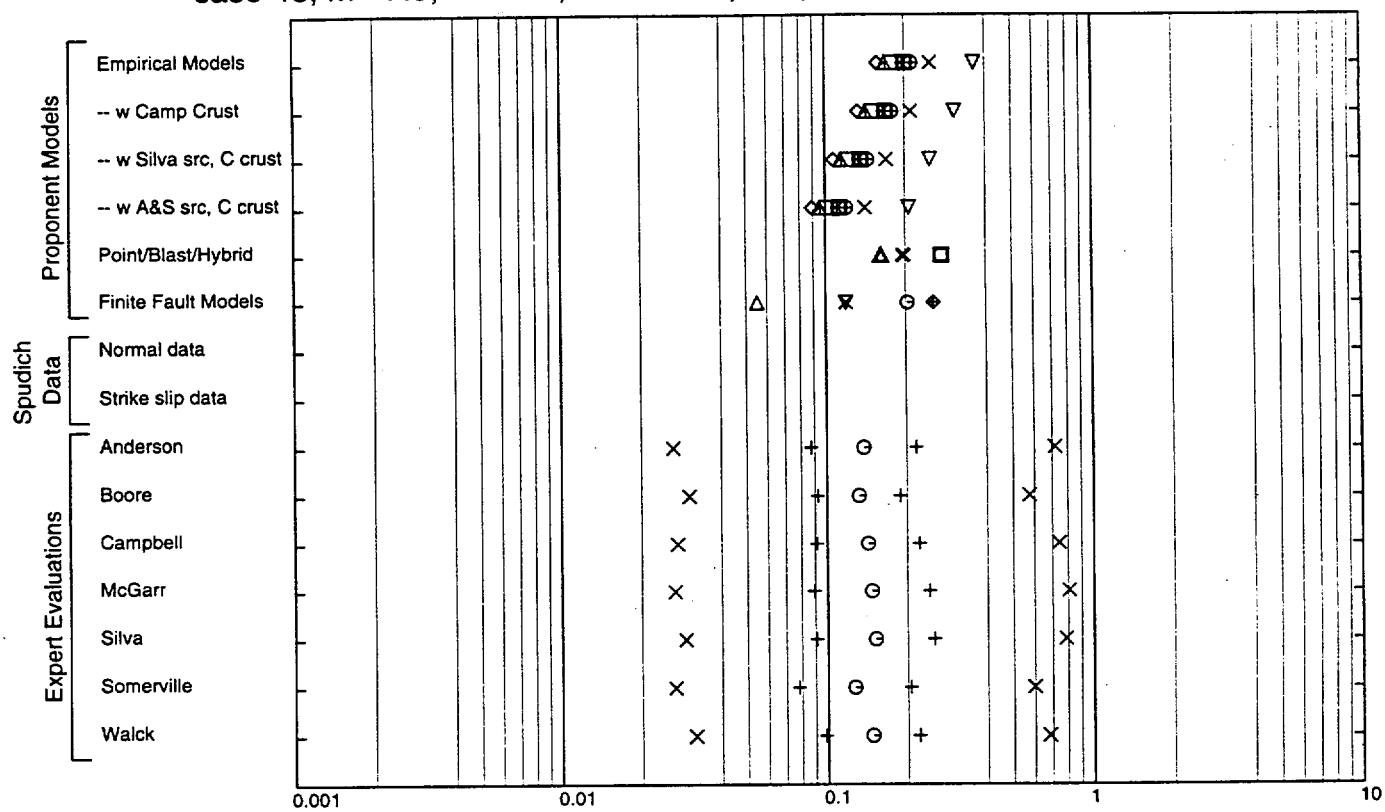
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

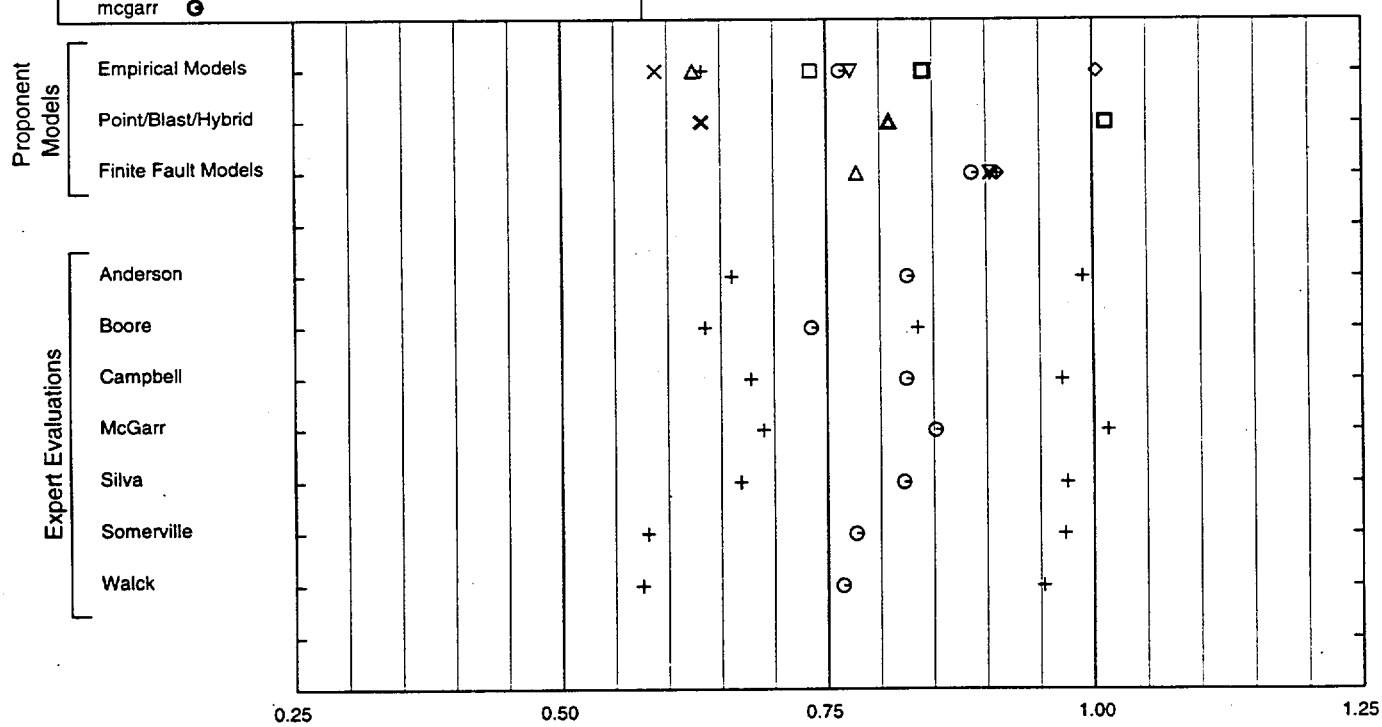
case 48, M= 7.5, shallow, xd= 10 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

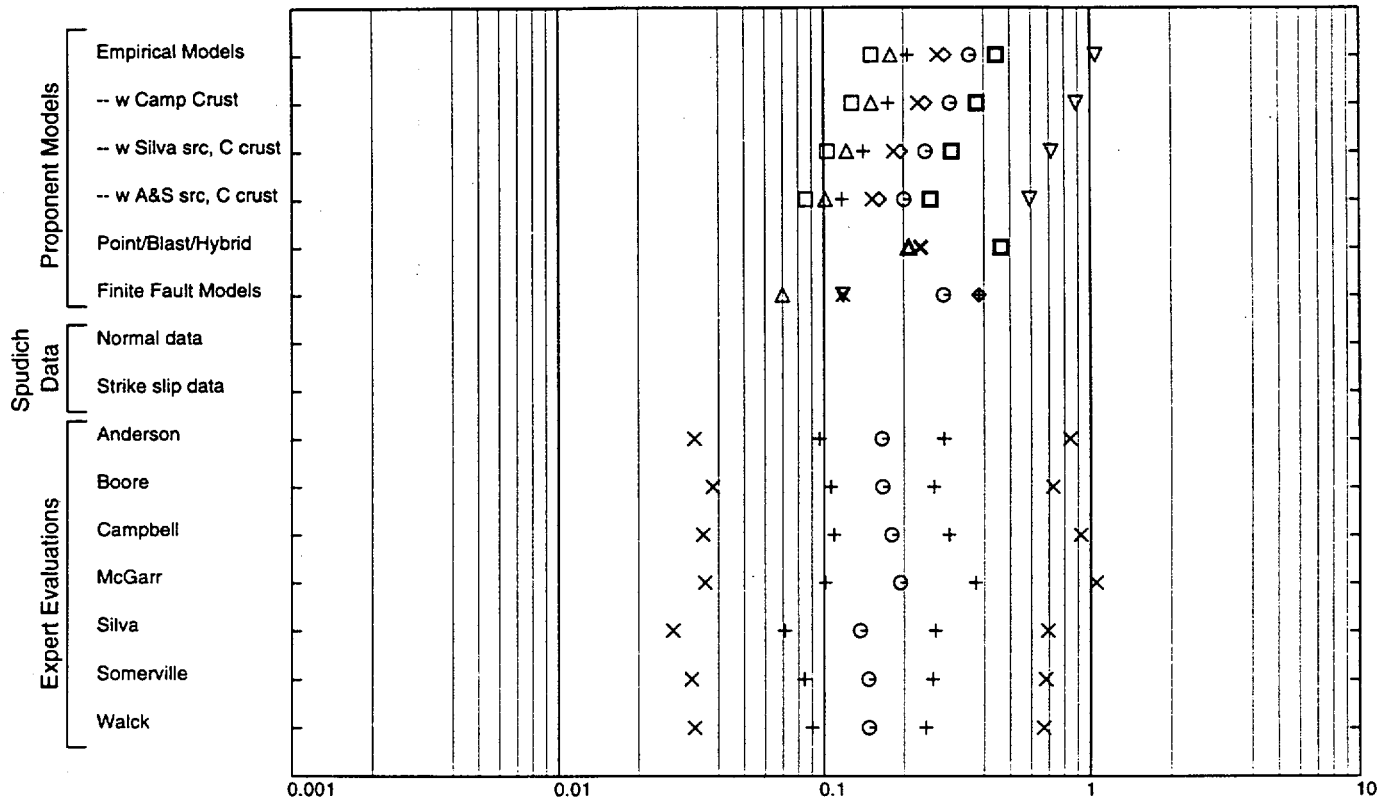
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



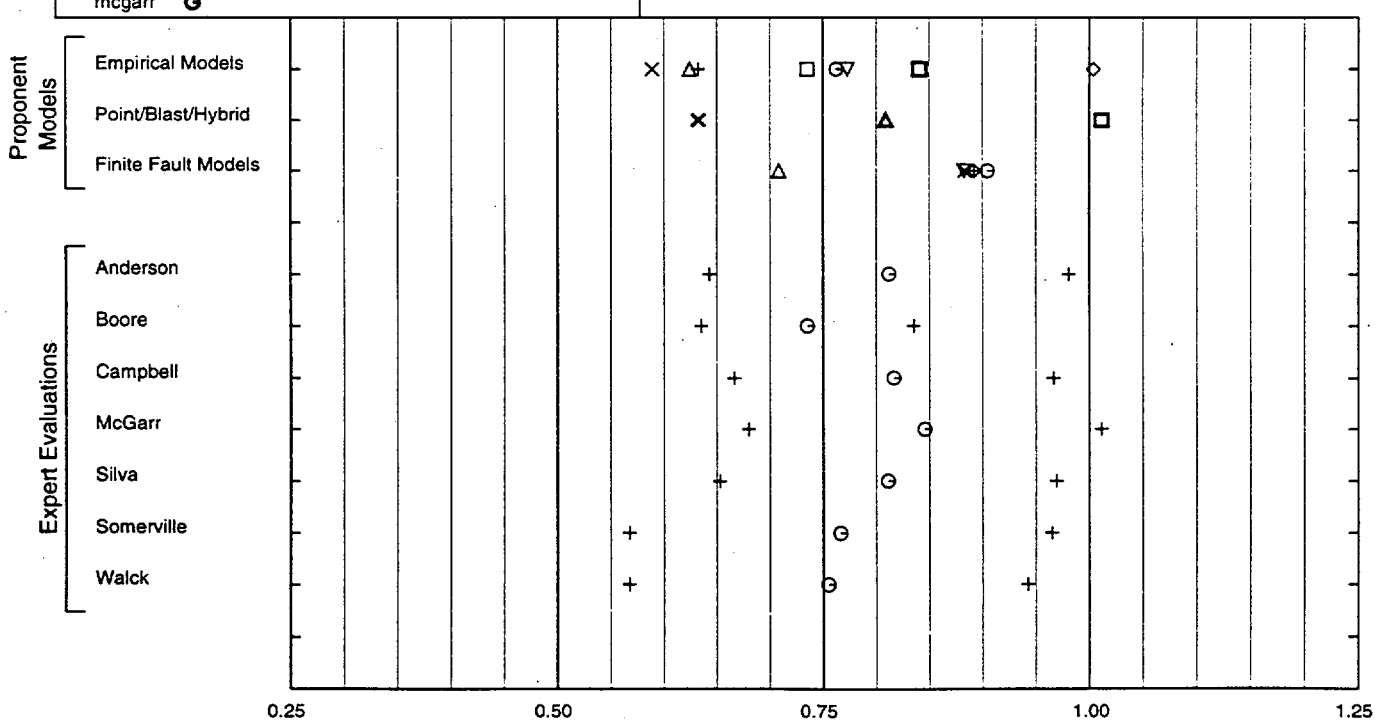
Aleatory Sigma (LN units) w/ Comp Var.

case 49, M= 7.5, shallow, xd= 10 km, HW, 0.5 Hz, HOR, 6/5/97, Rev 1

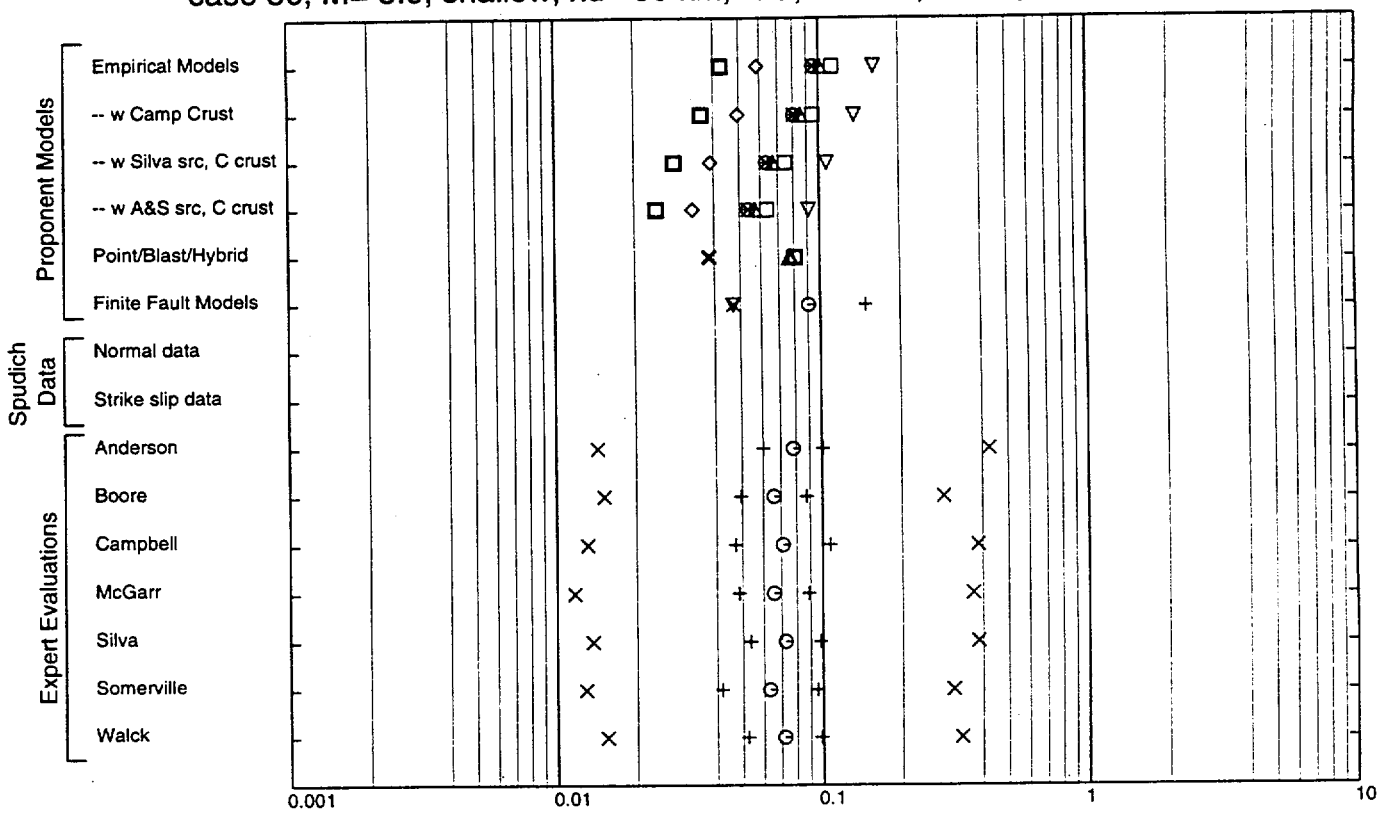


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



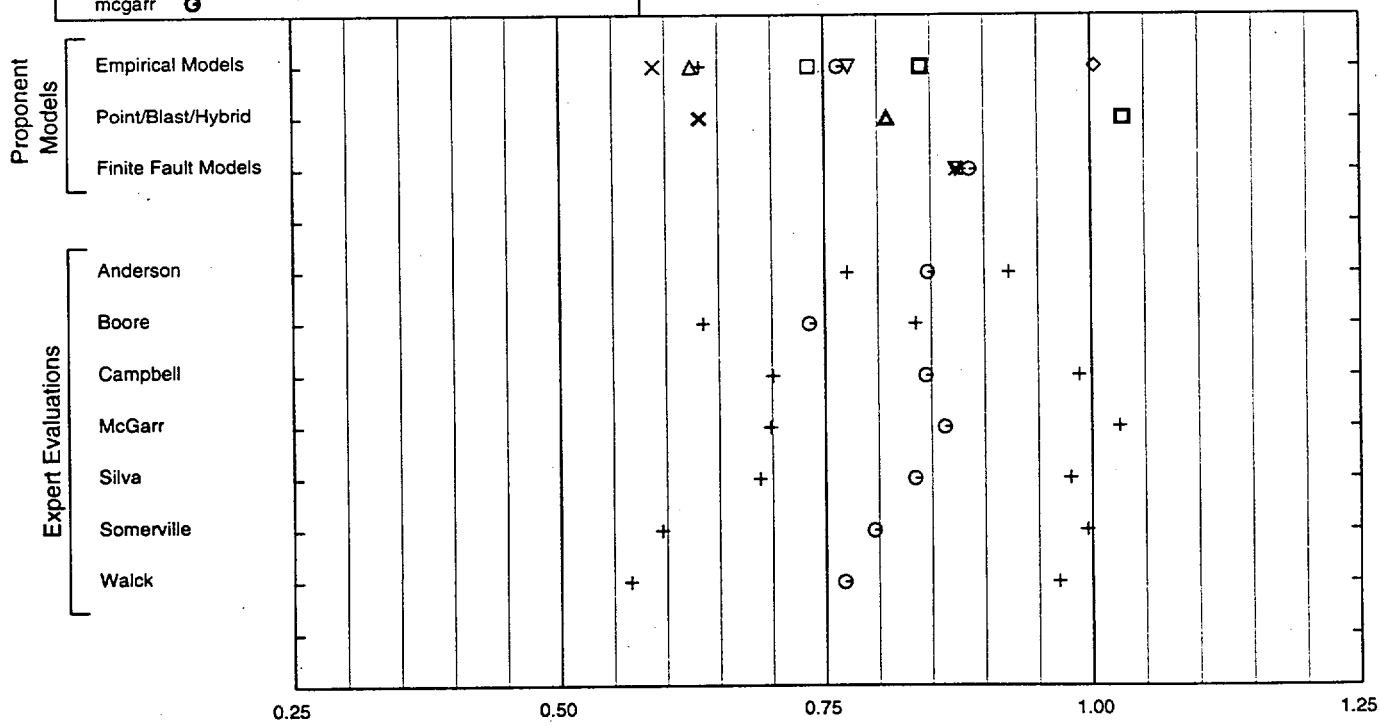
case 50, M= 8.0, shallow, xd= 50 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

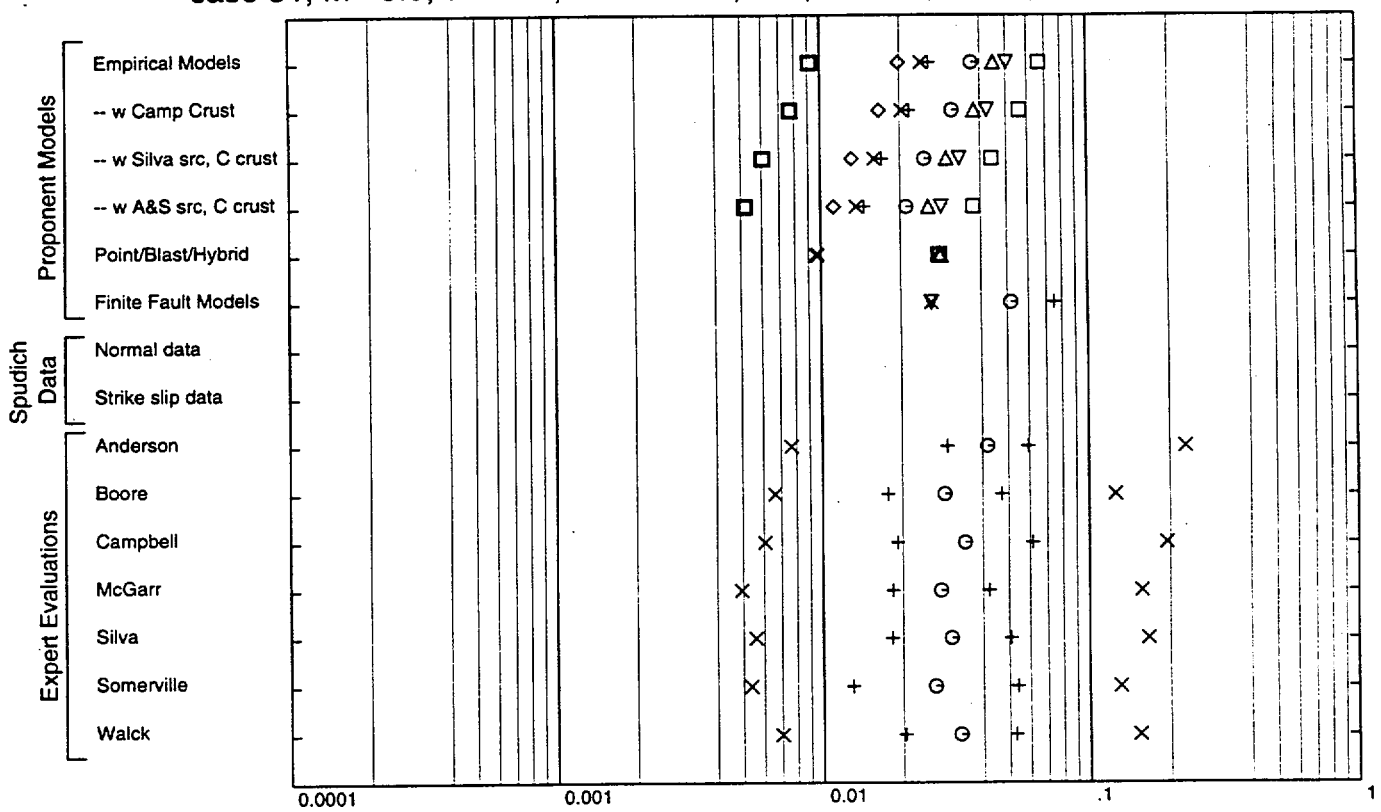
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

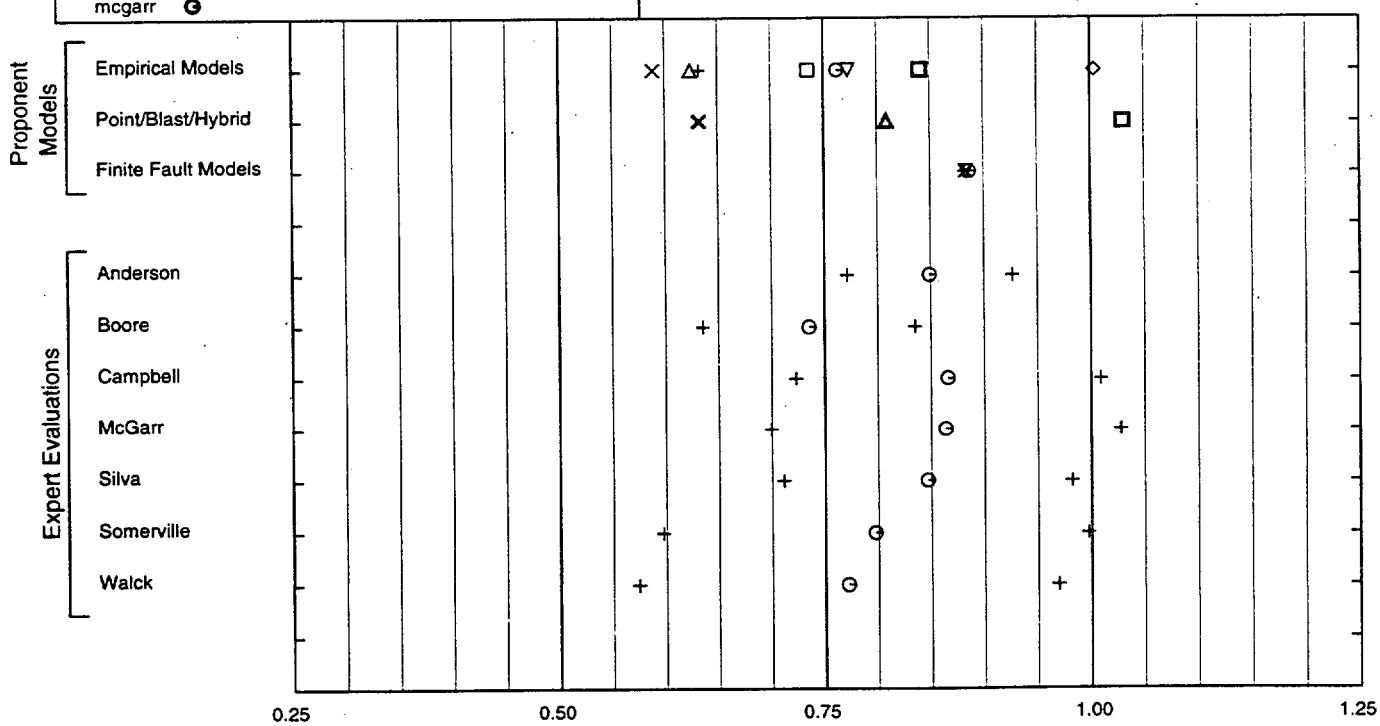
case 51, M= 8.0, shallow, xd=160 km, SS, 0.5 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

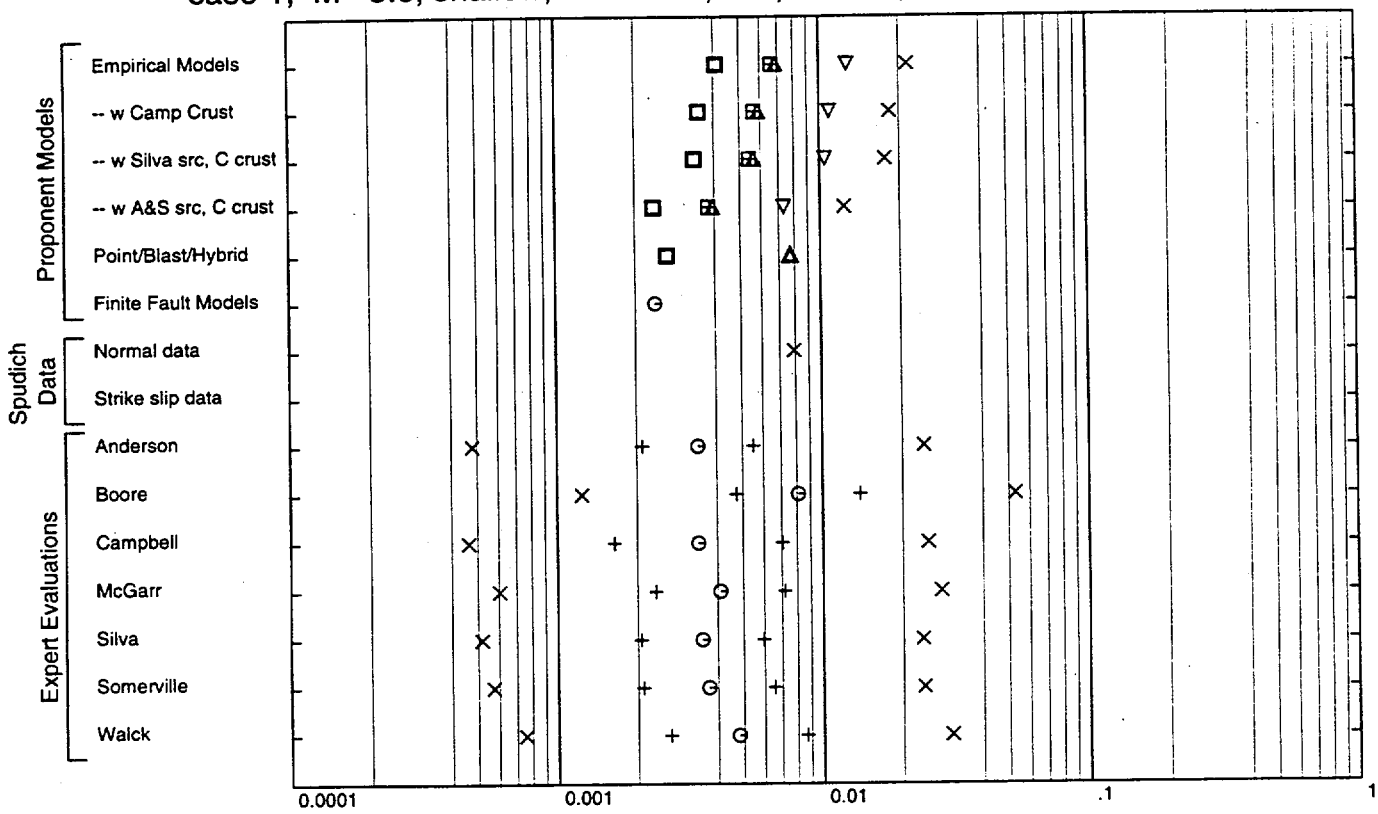
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

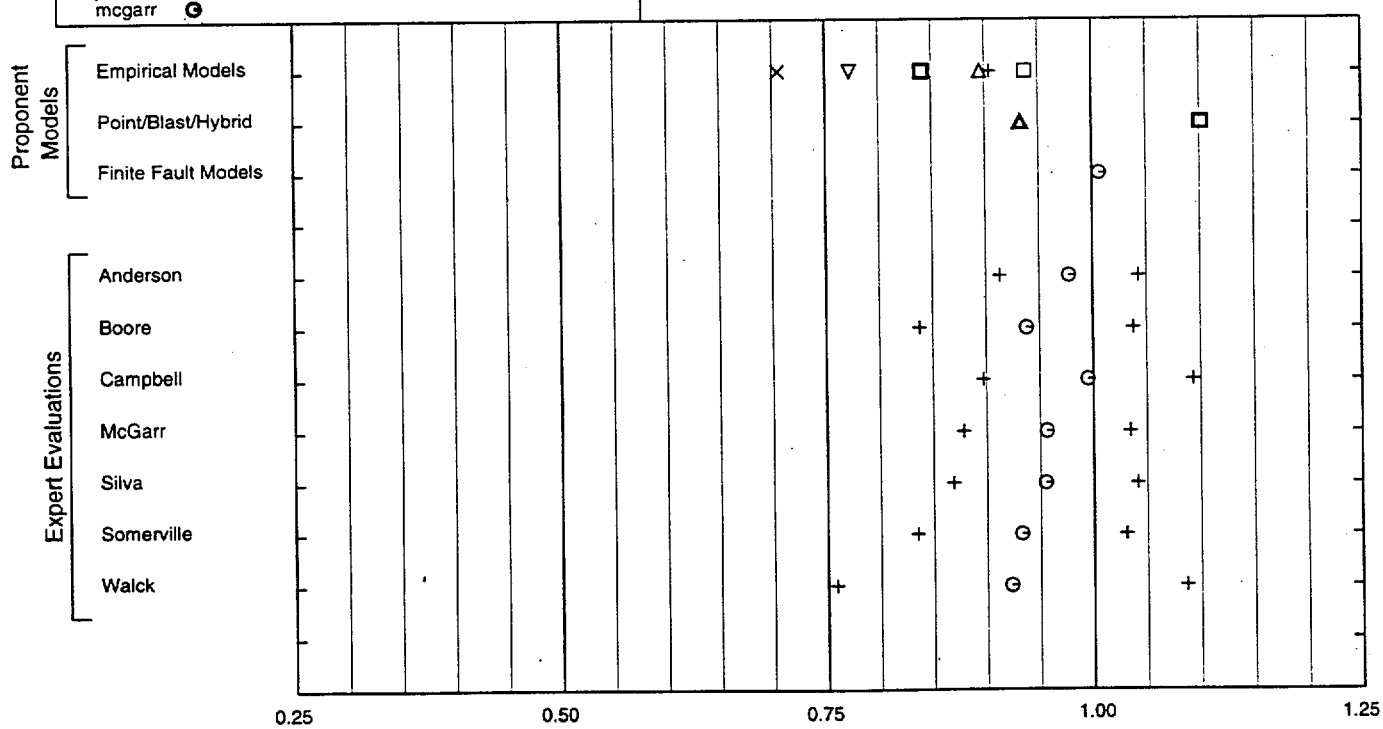
case 1, M= 5.0, shallow, xd= 1 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

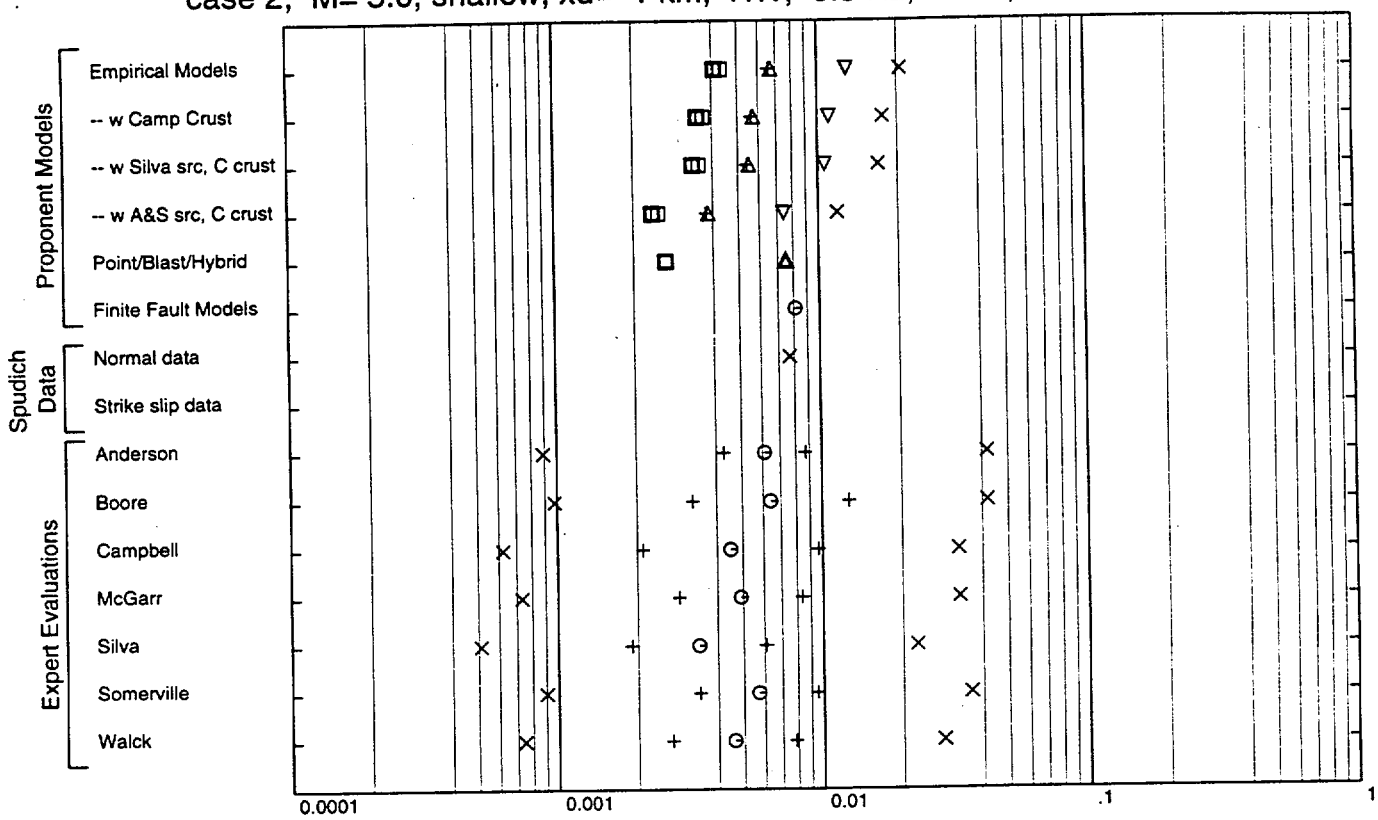
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



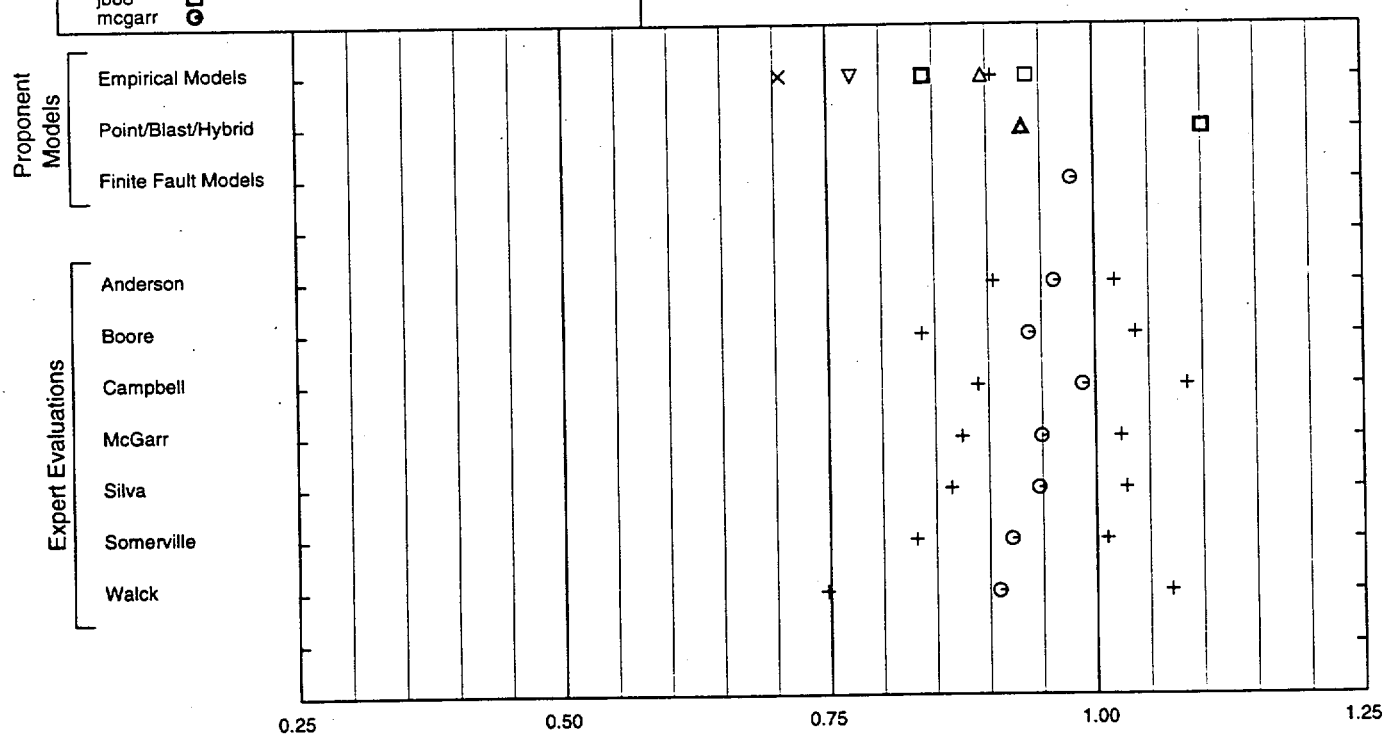
Aleatory Sigma (LN units) w/ Comp Var.

case 2, M= 5.0, shallow, xd= 1 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1

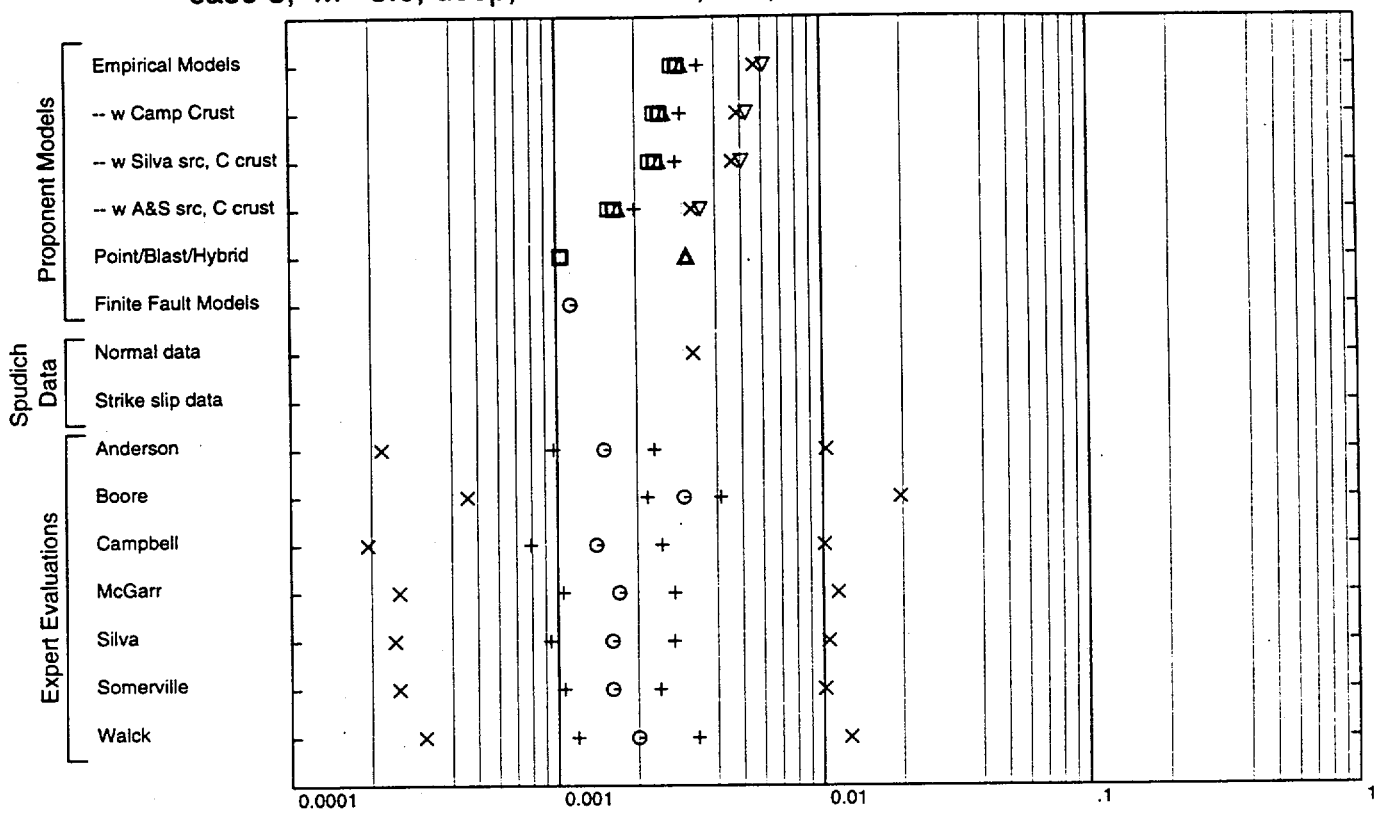


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



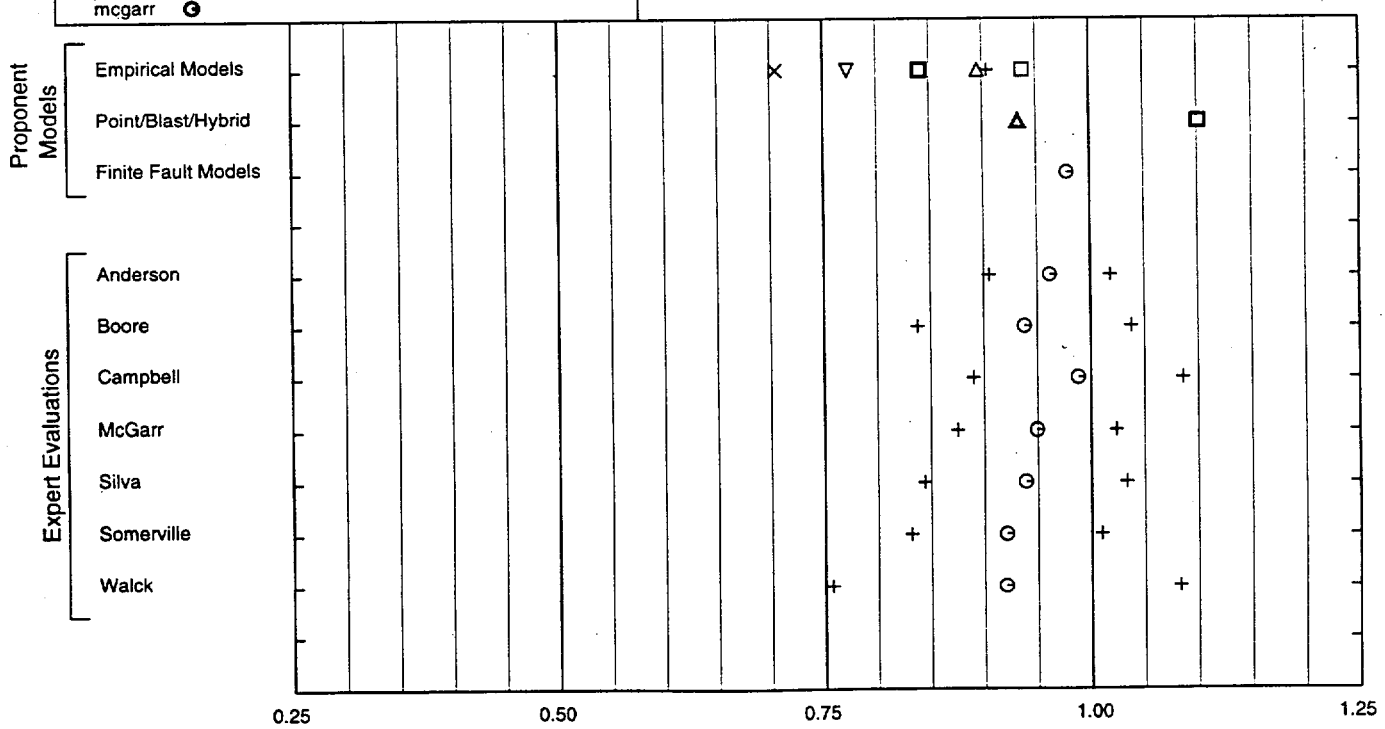
case 3, M= 5.0, deep, xd= 5 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

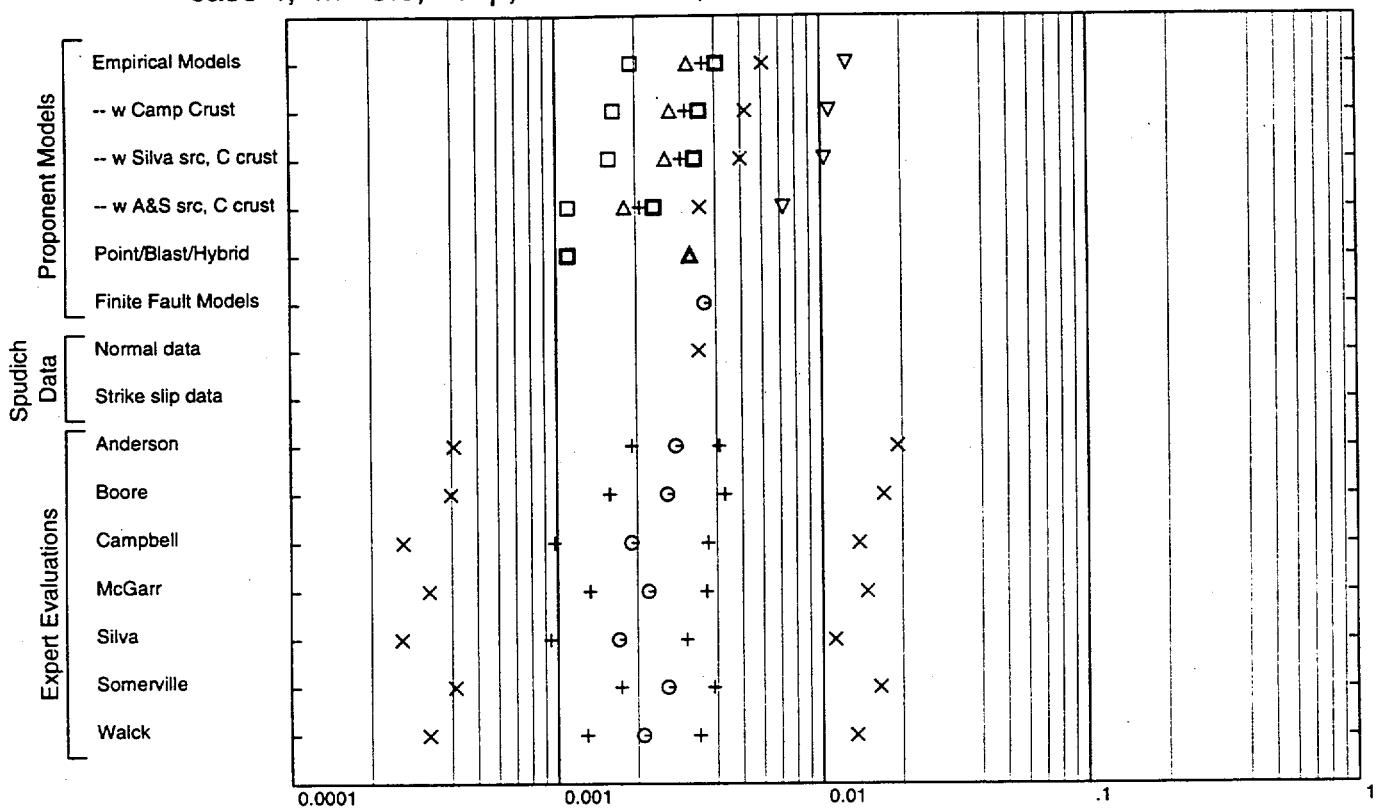
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

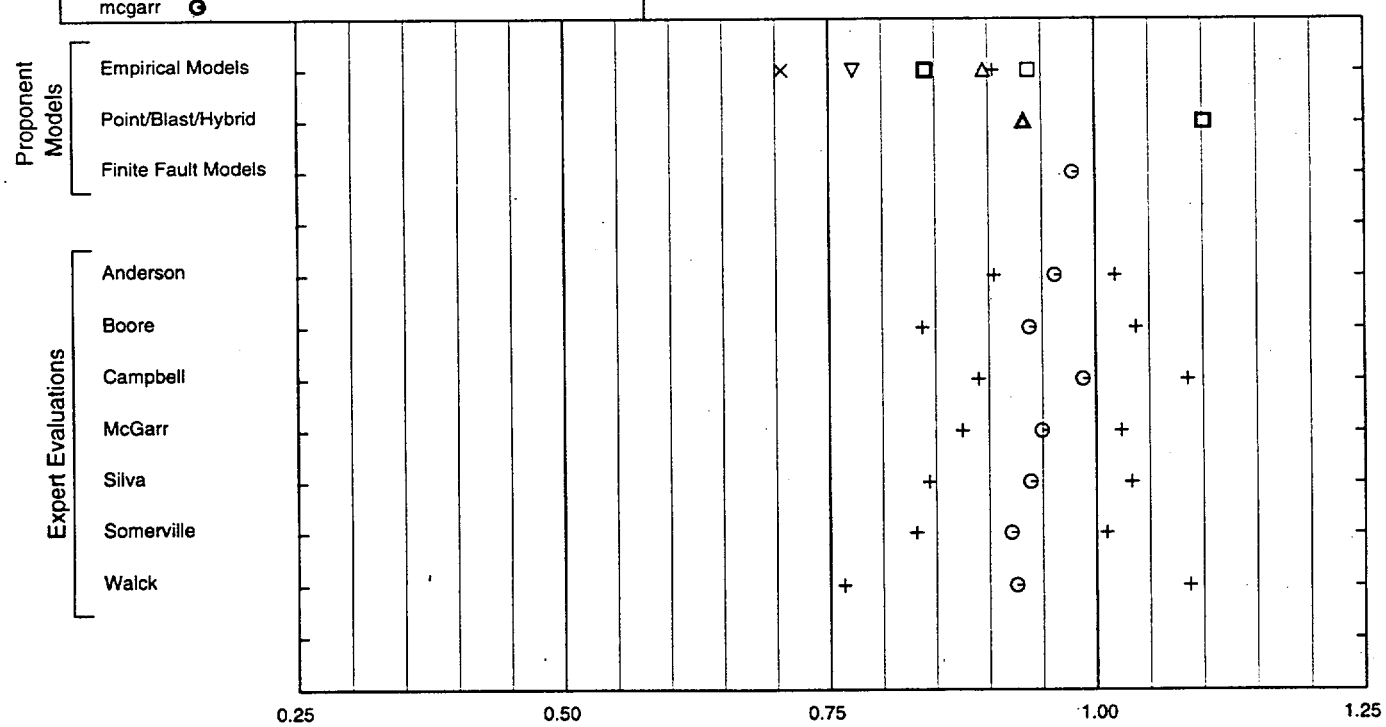
case 4, M= 5.0, deep, xd= 5 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

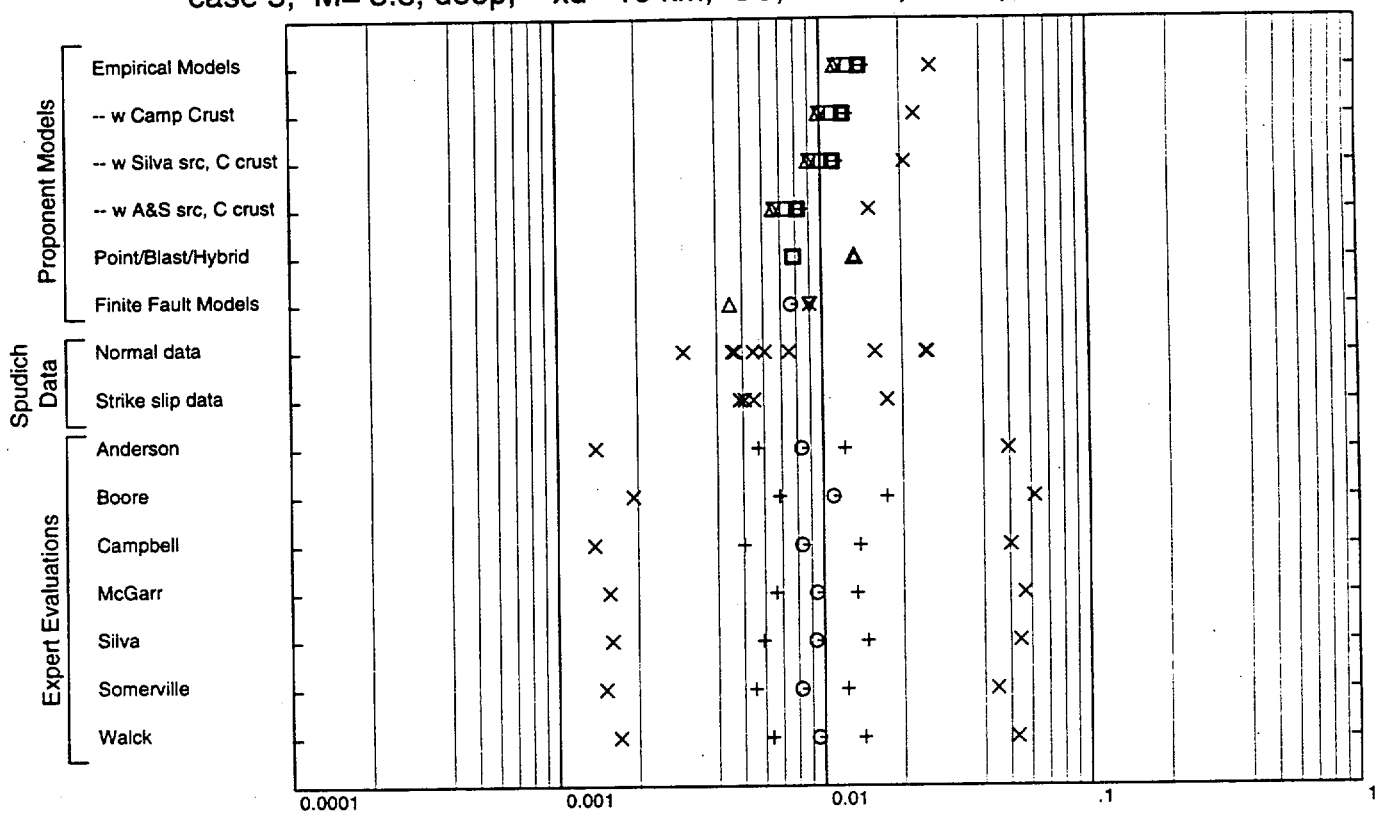
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

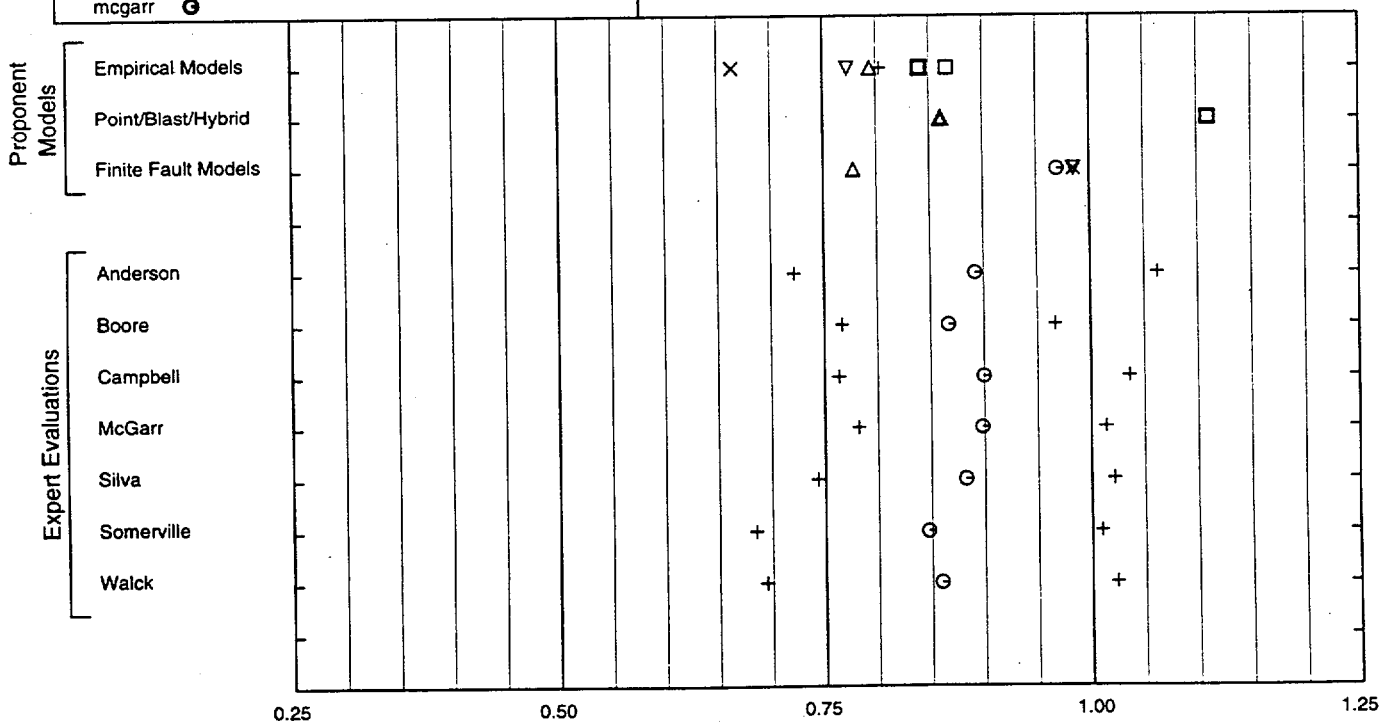
case 5, M= 5.8, deep, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

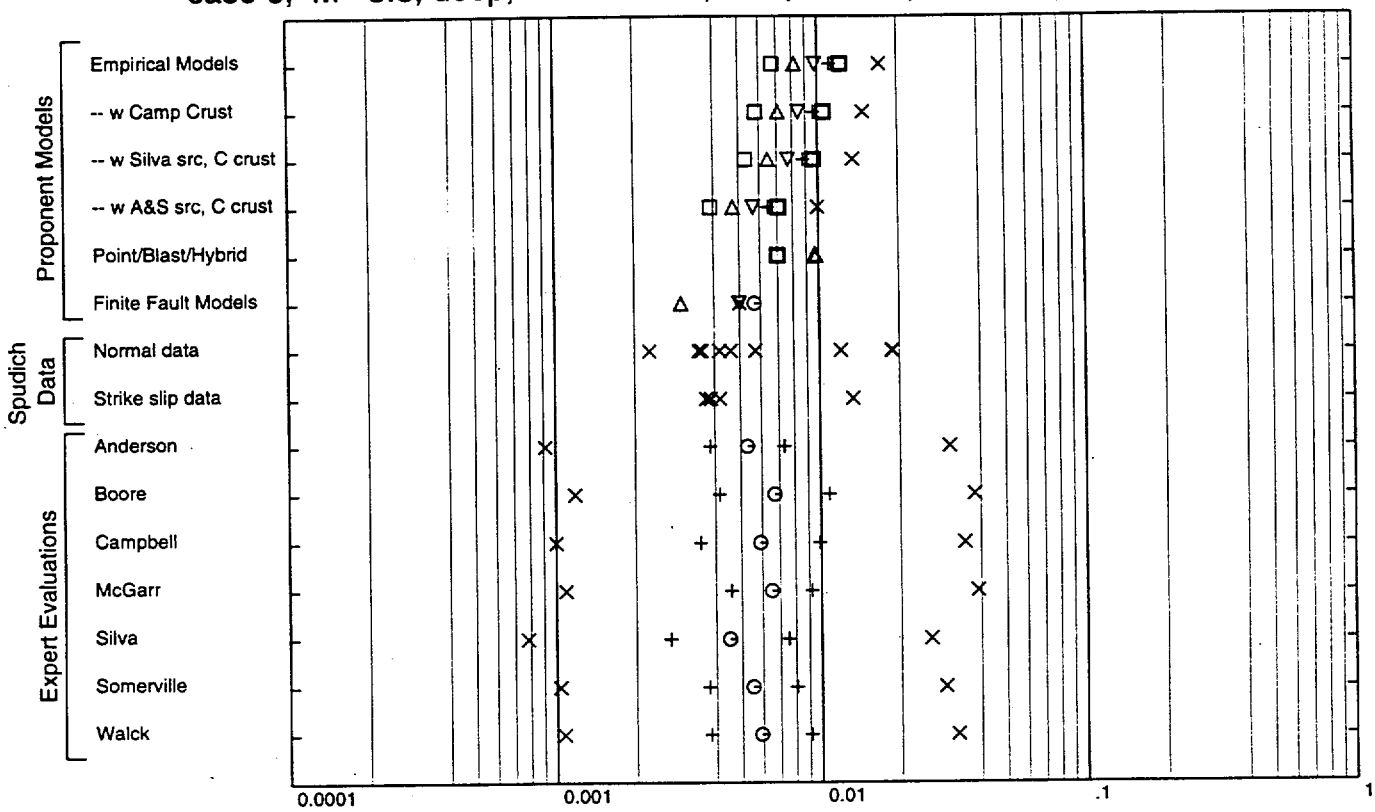
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

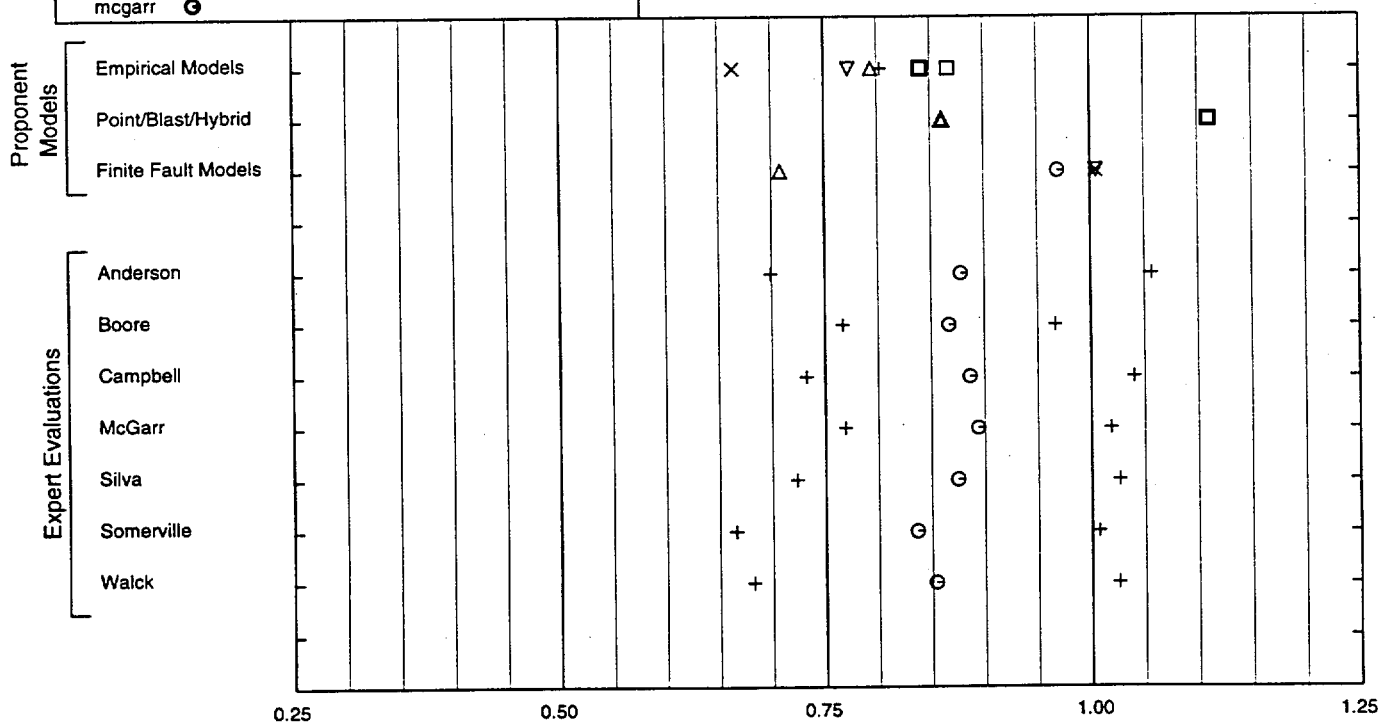
case 6, M= 5.8, deep, xd= 20 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

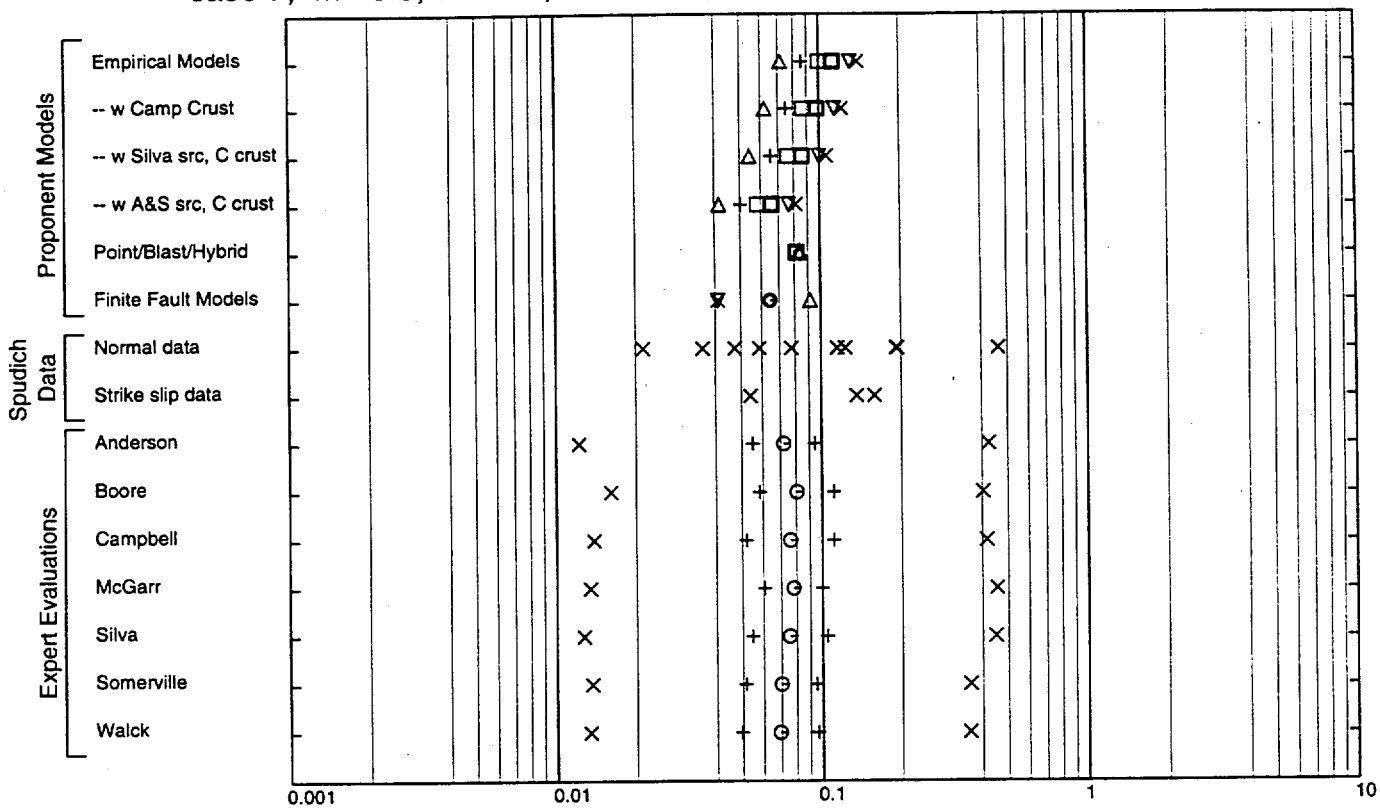
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



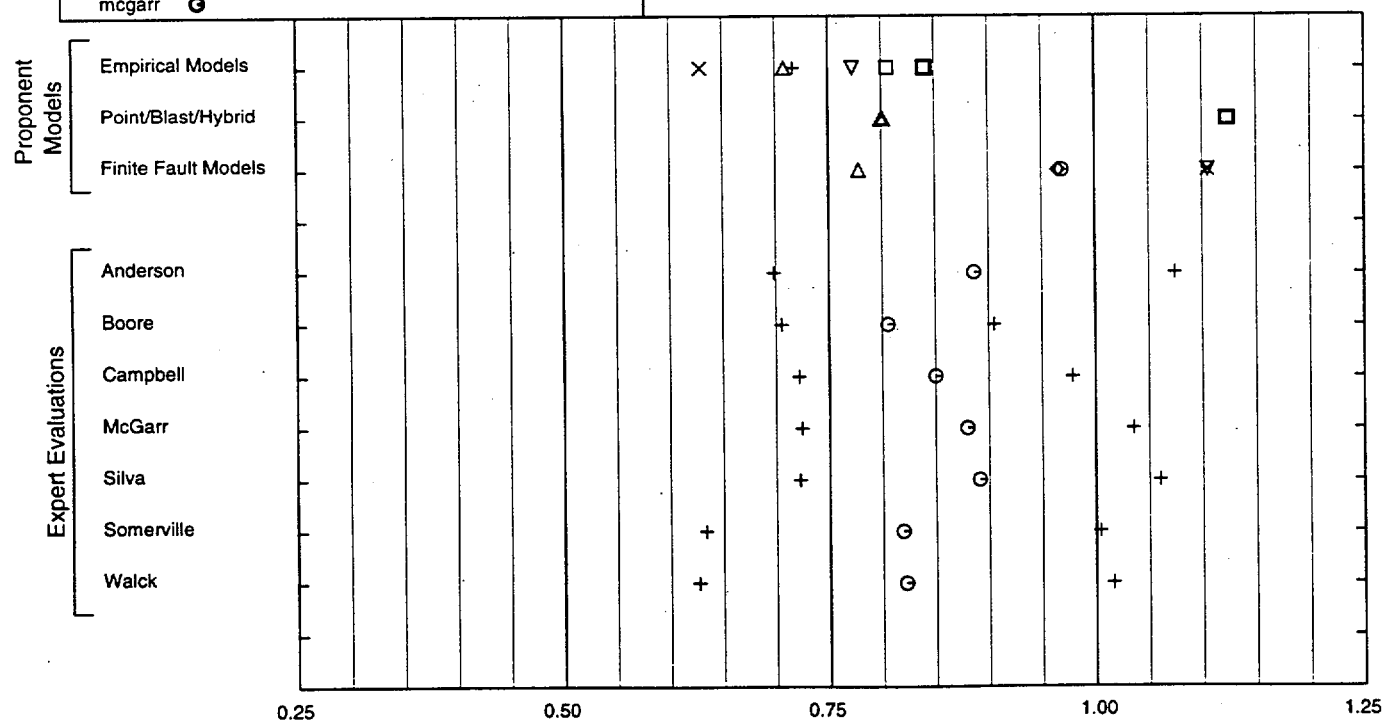
Aleatory Sigma (LN units) w/ Comp Var.

case 7, M= 6.5, shallow, xd= 1 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1

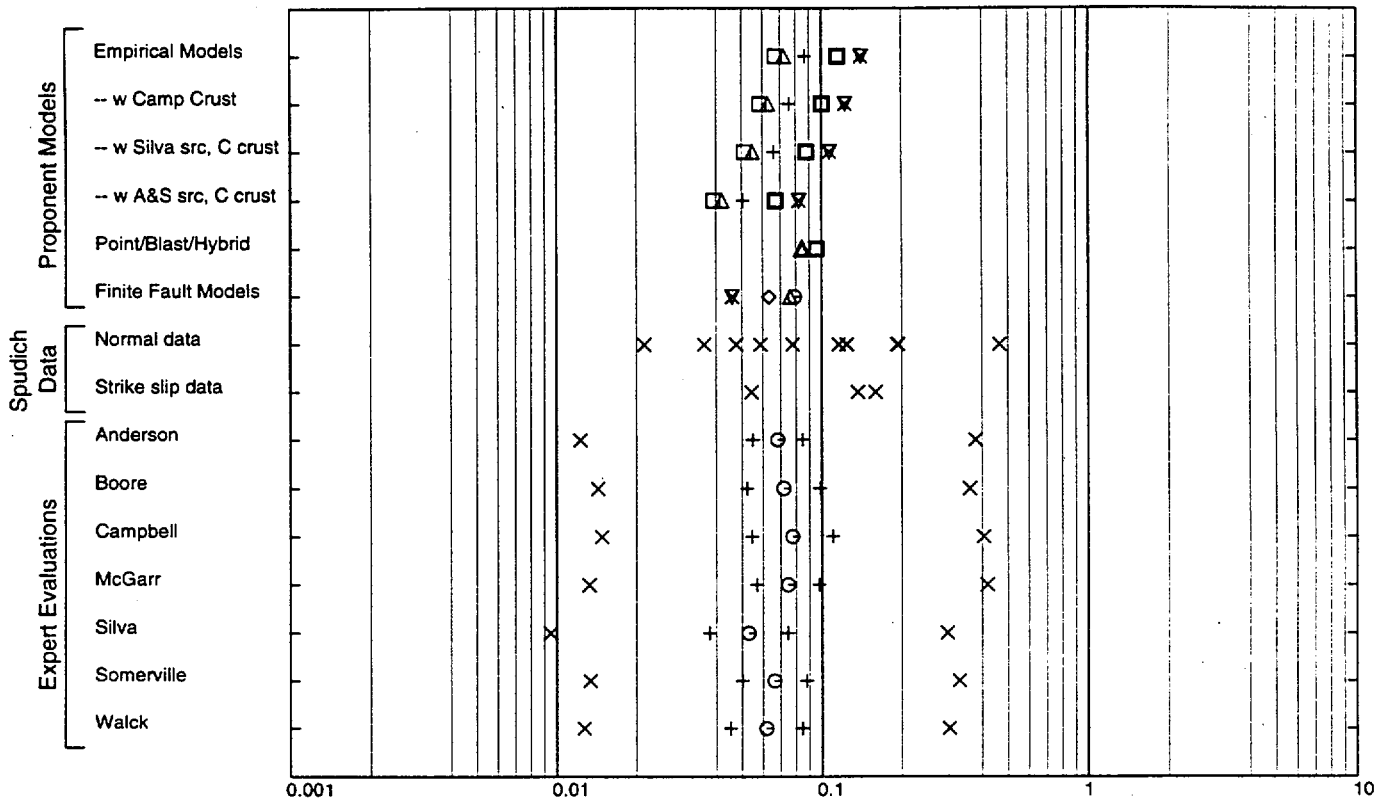


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



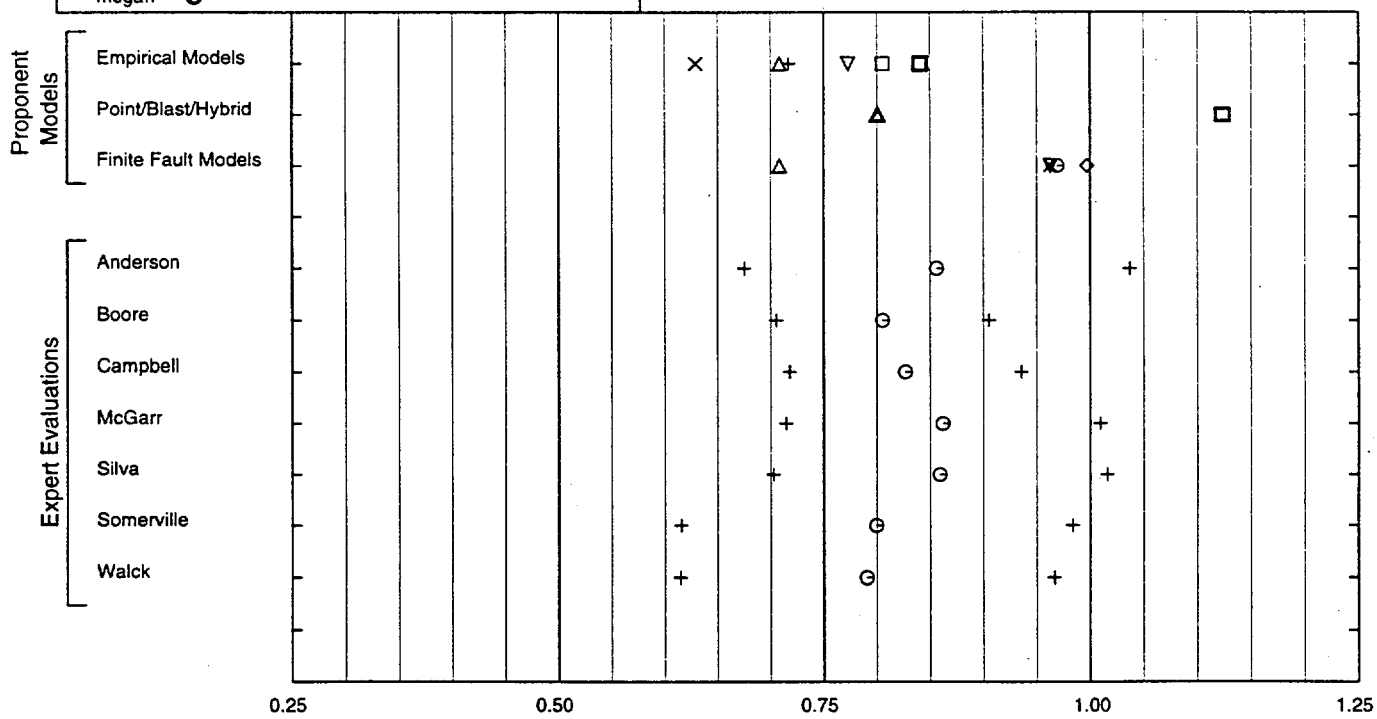
case 8, M= 6.5, shallow, xd= 1 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

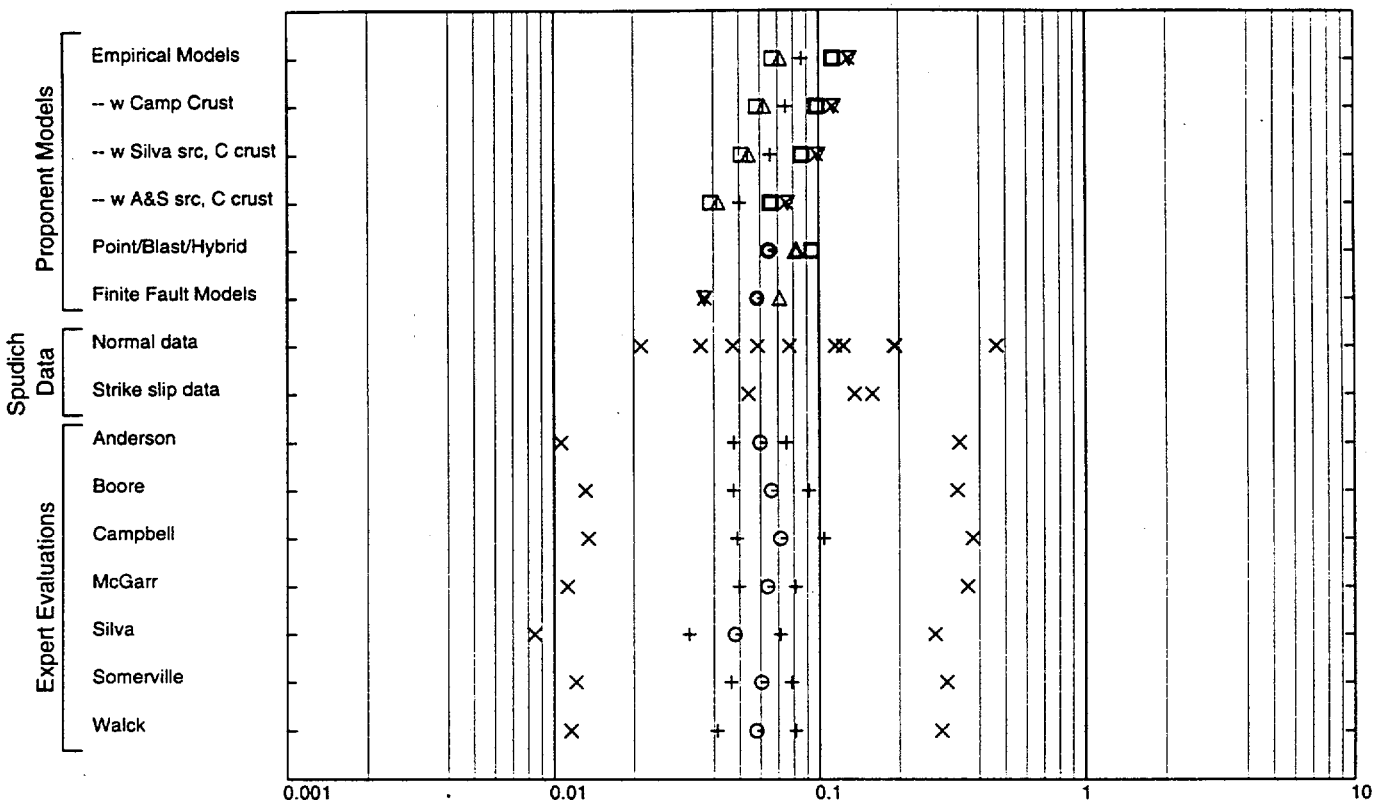
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

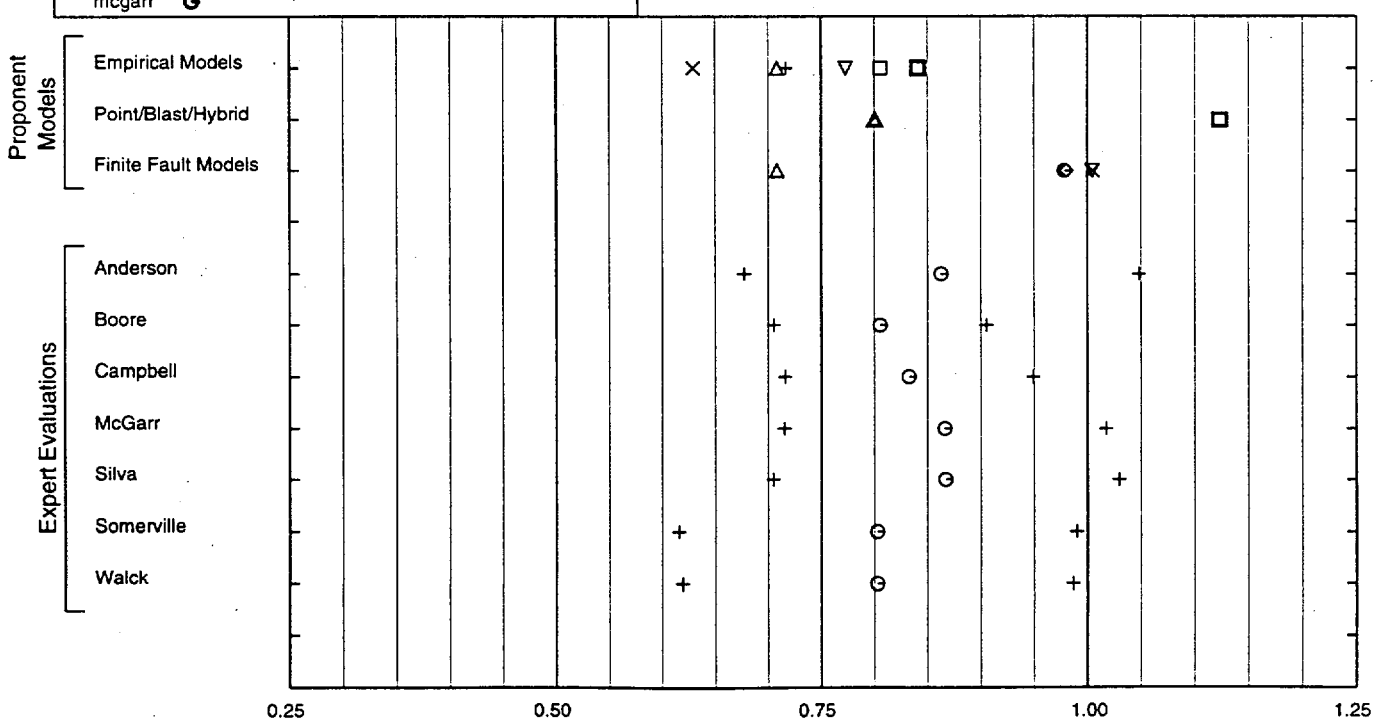
case 9, M= 6.5, shallow, xd= -1 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

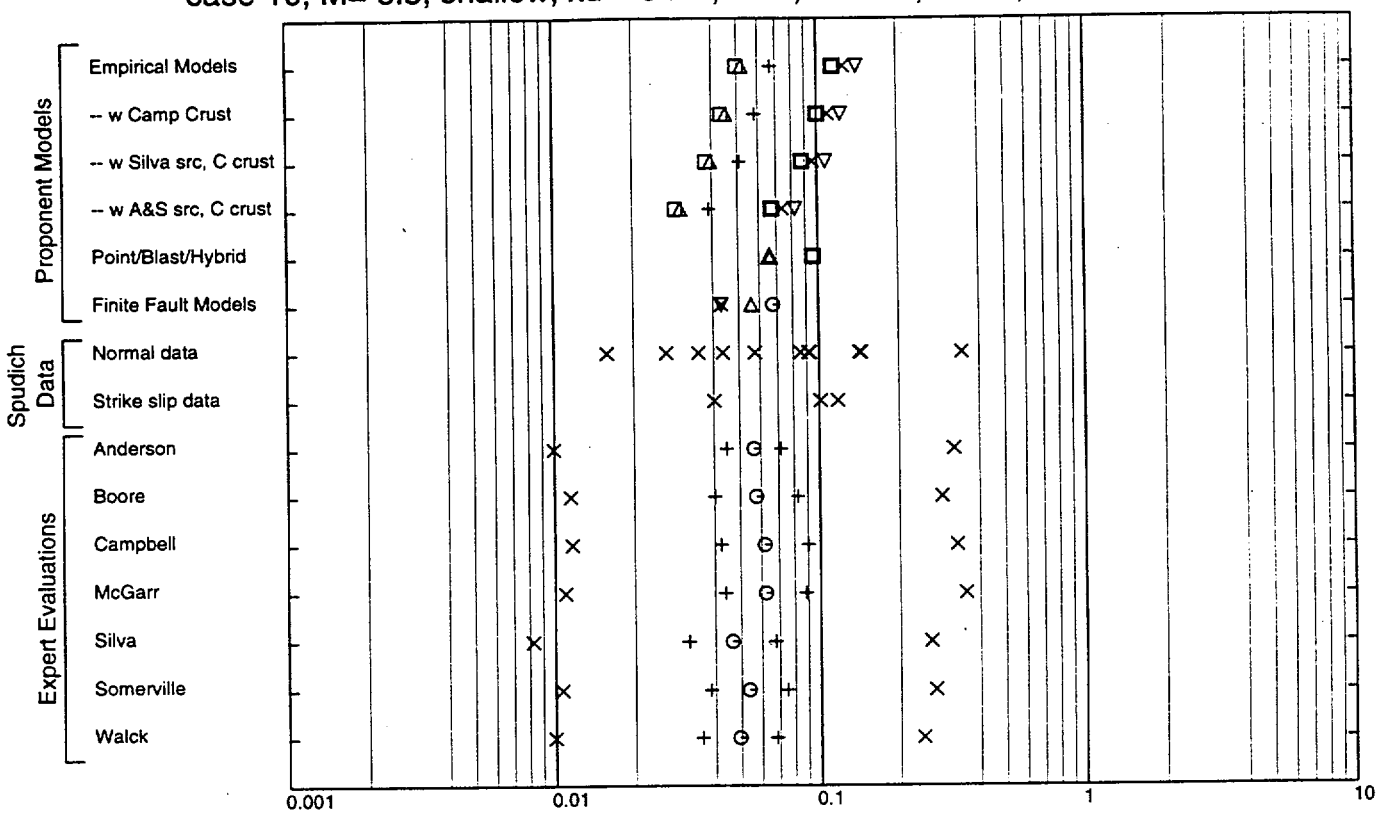
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

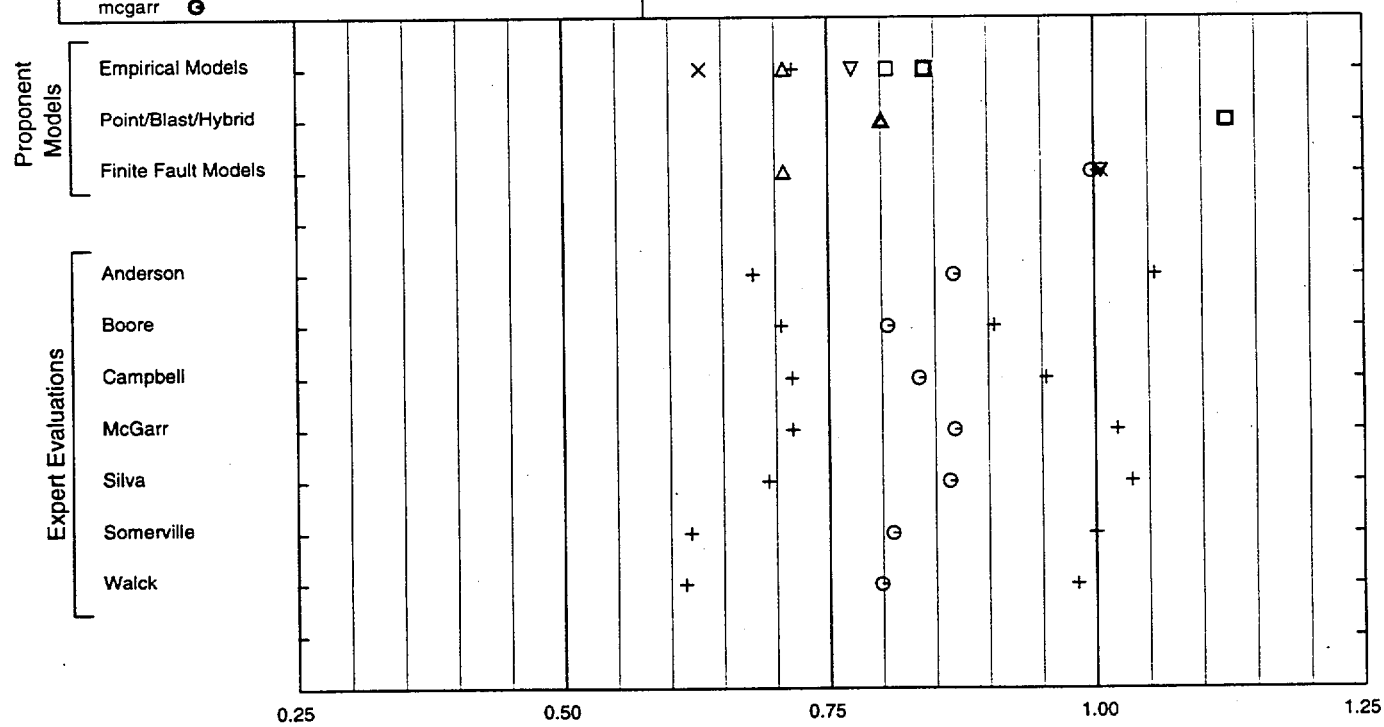
case 10, M= 6.5, shallow, xd= 5 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

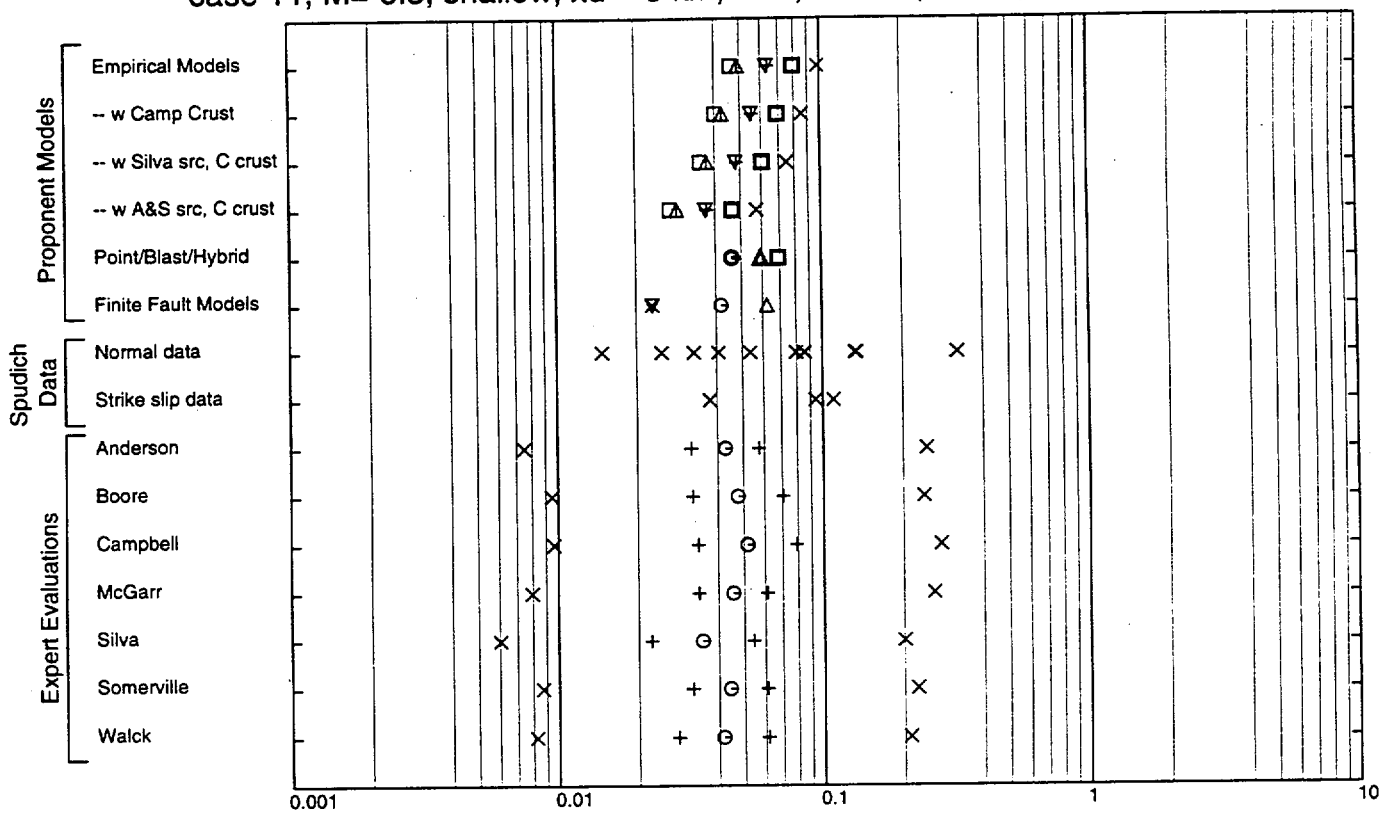
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



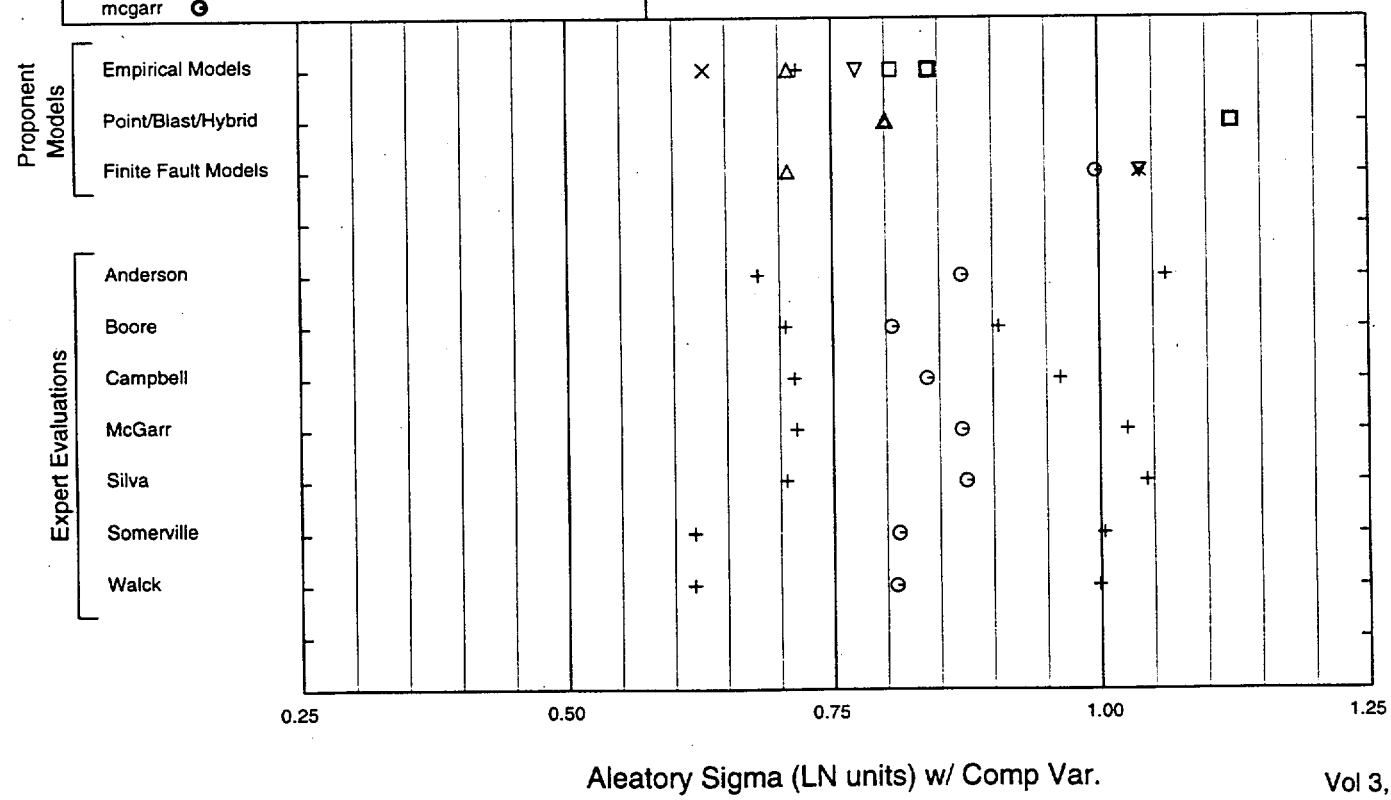
Aleatory Sigma (LN units) w/ Comp Var.

case 11, M= 6.5, shallow, xd= -5 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1

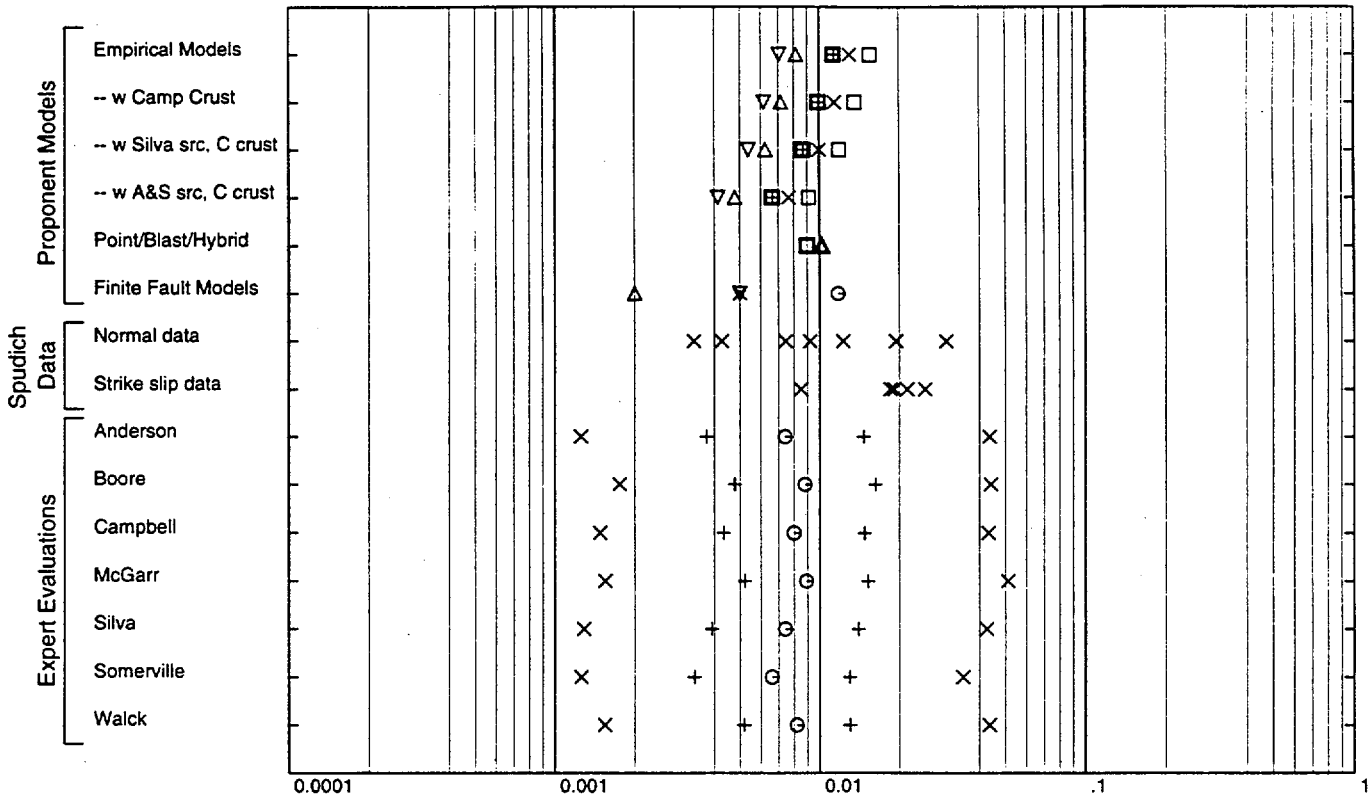


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



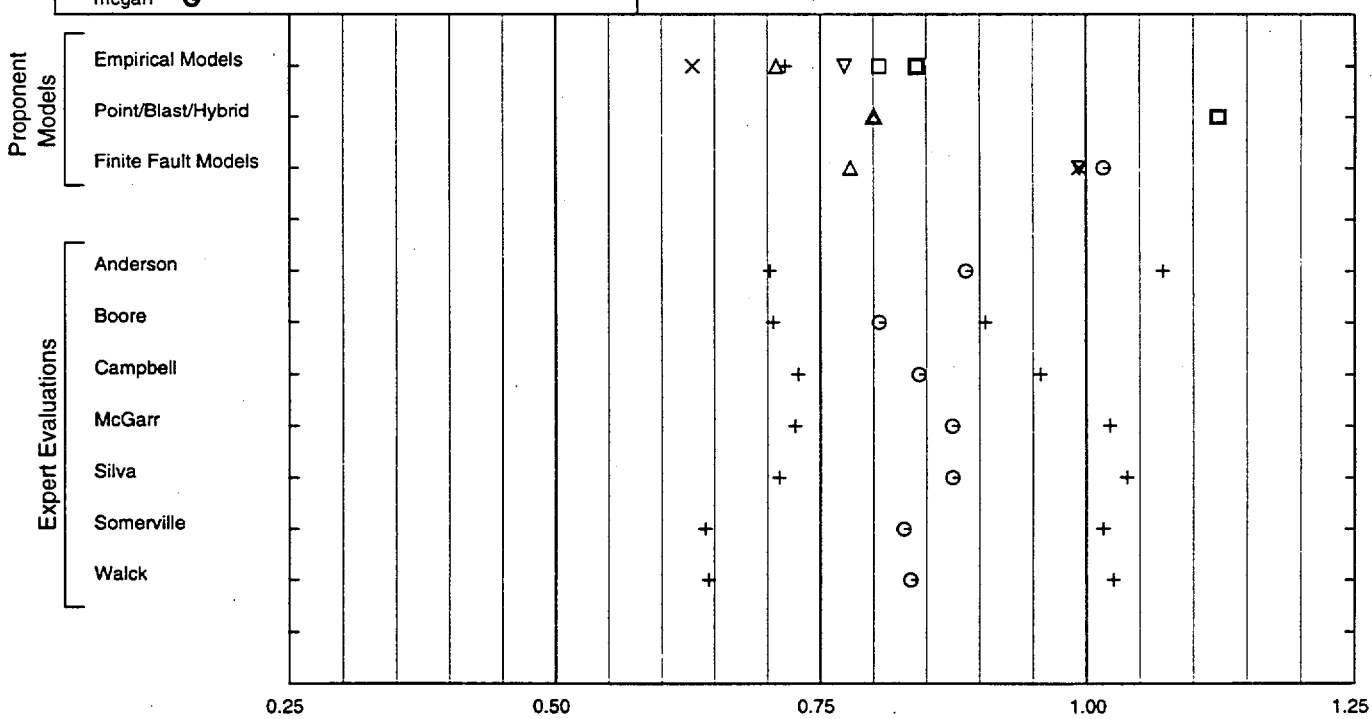
case 12, M= 6.5, shallow, xd= 50 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

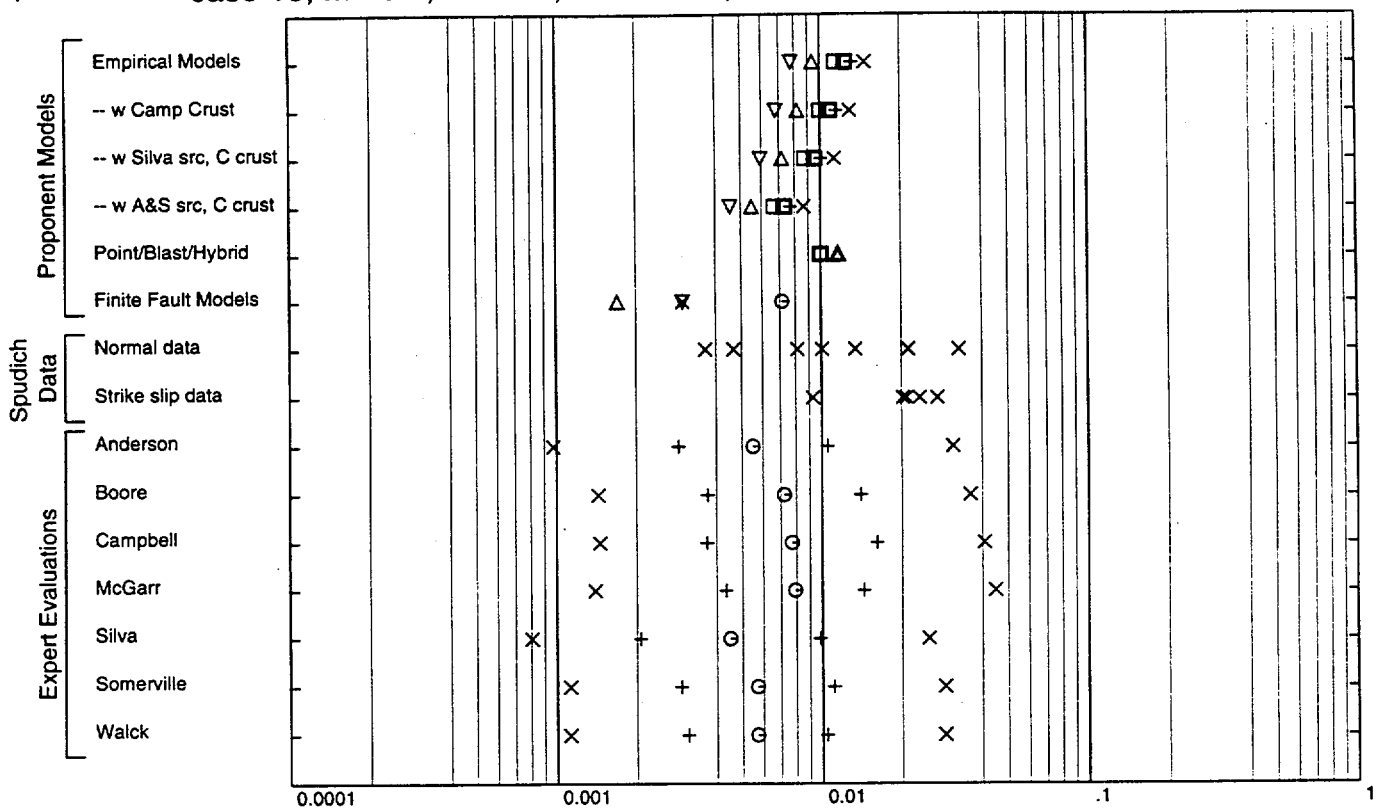
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

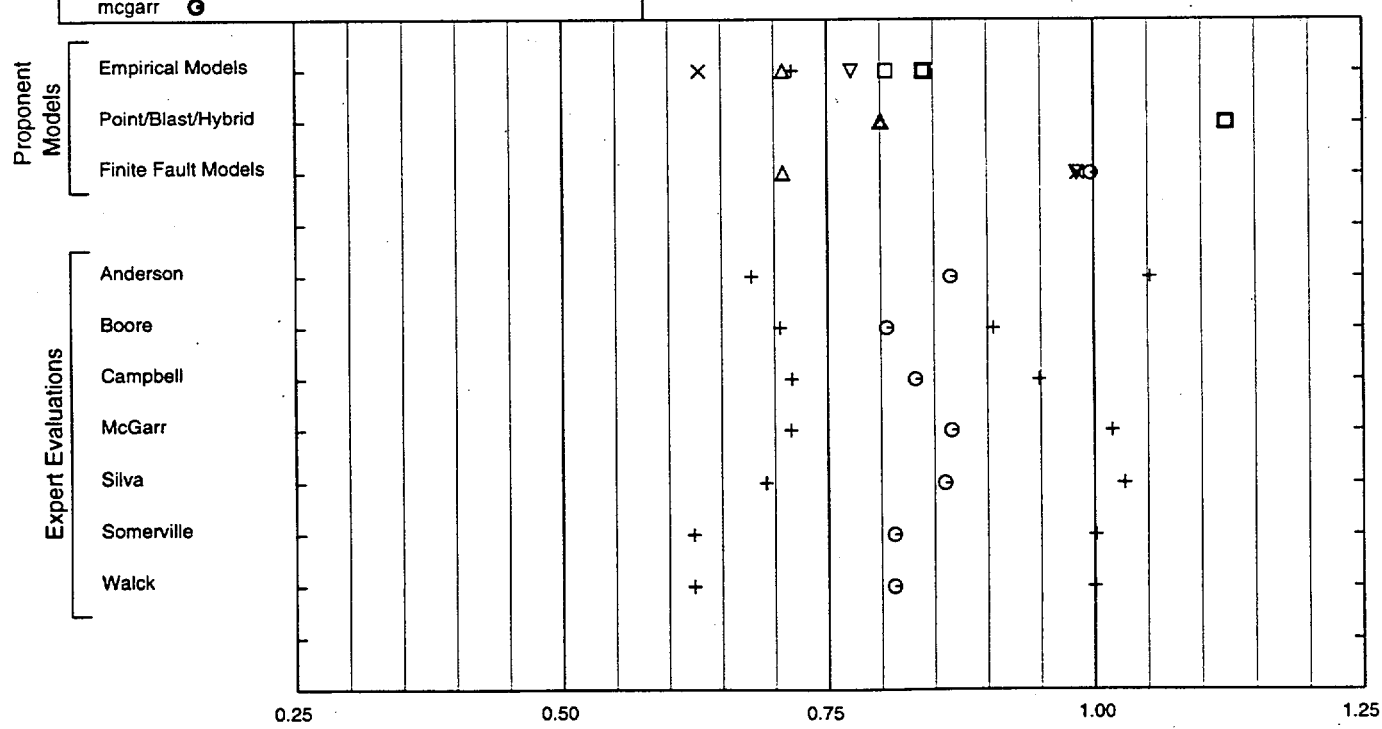
case 13, M= 6.5, shallow, xd= 50 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

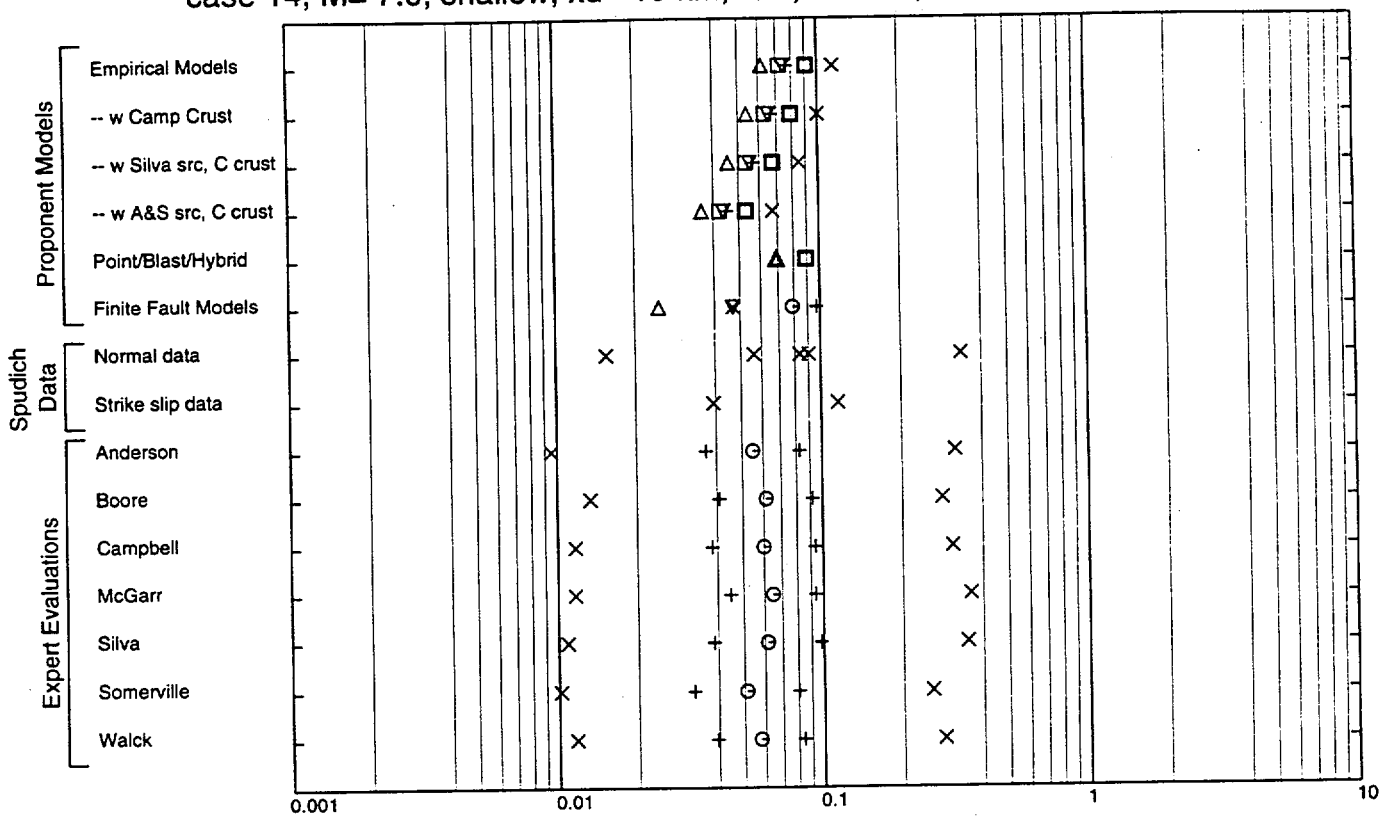
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

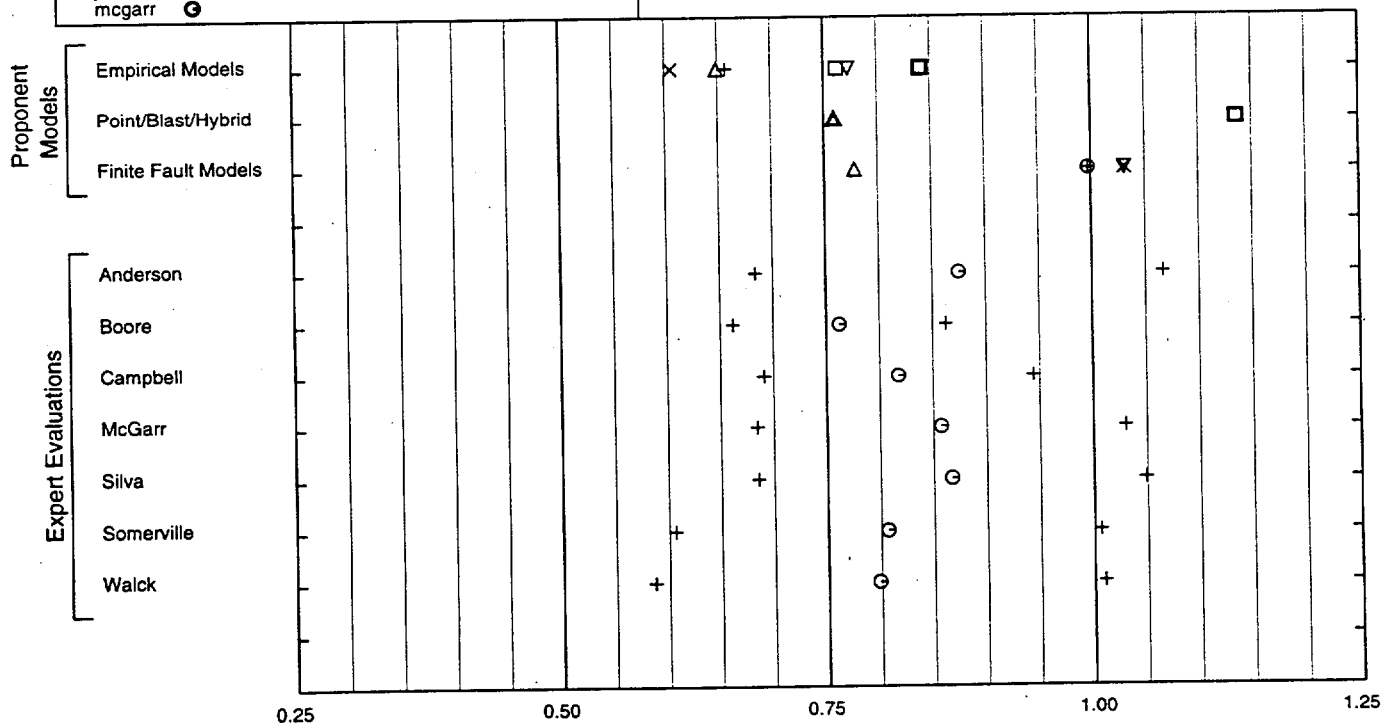
case 14, M= 7.0, shallow, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

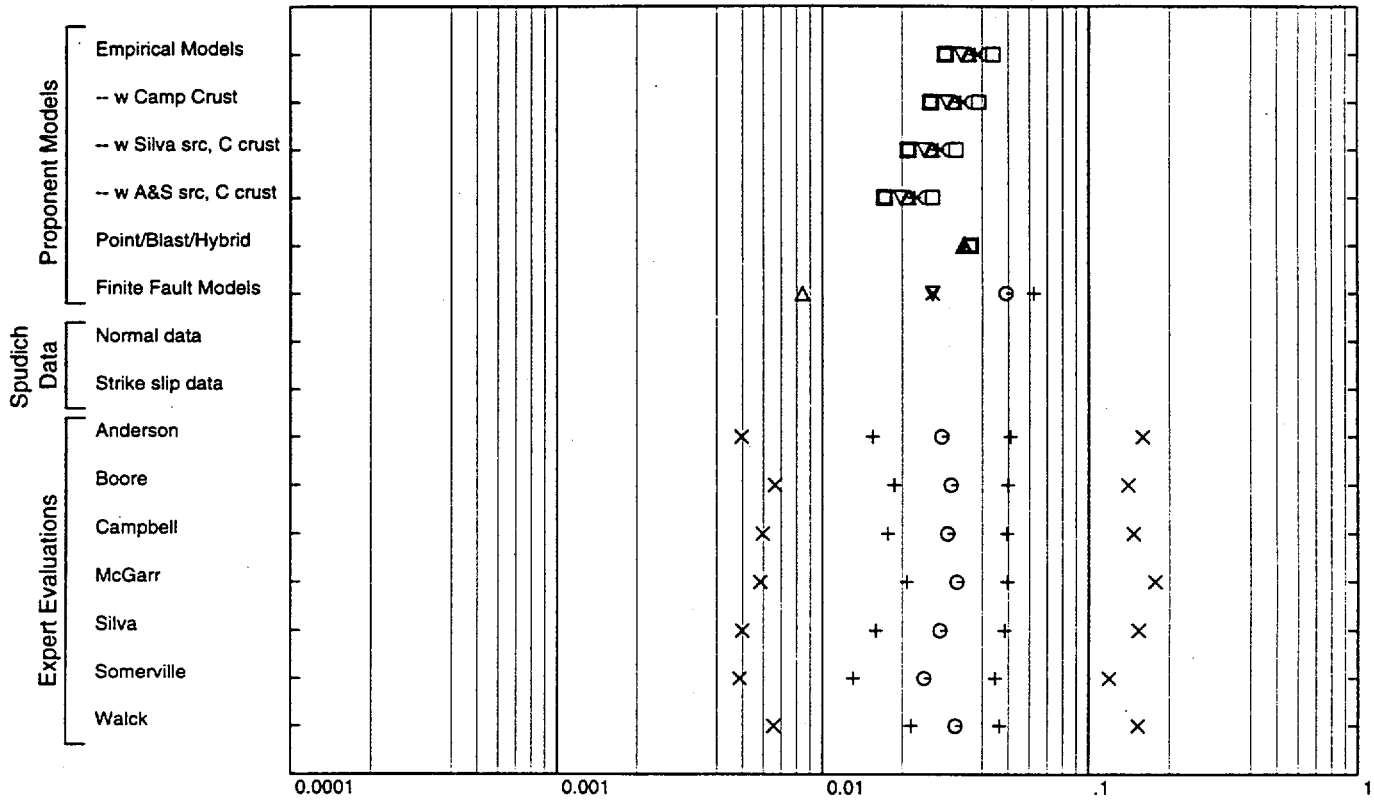
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

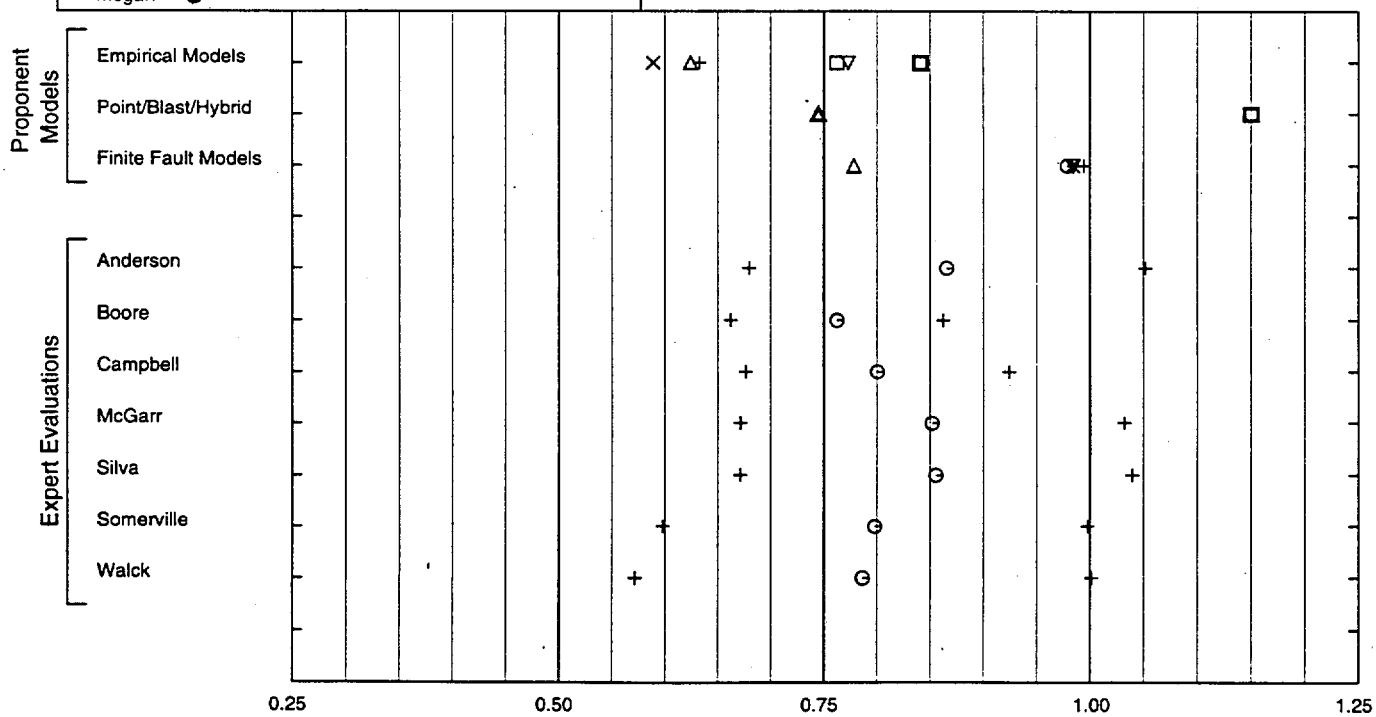
case 15, M= 7.5, shallow, xd= 50 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

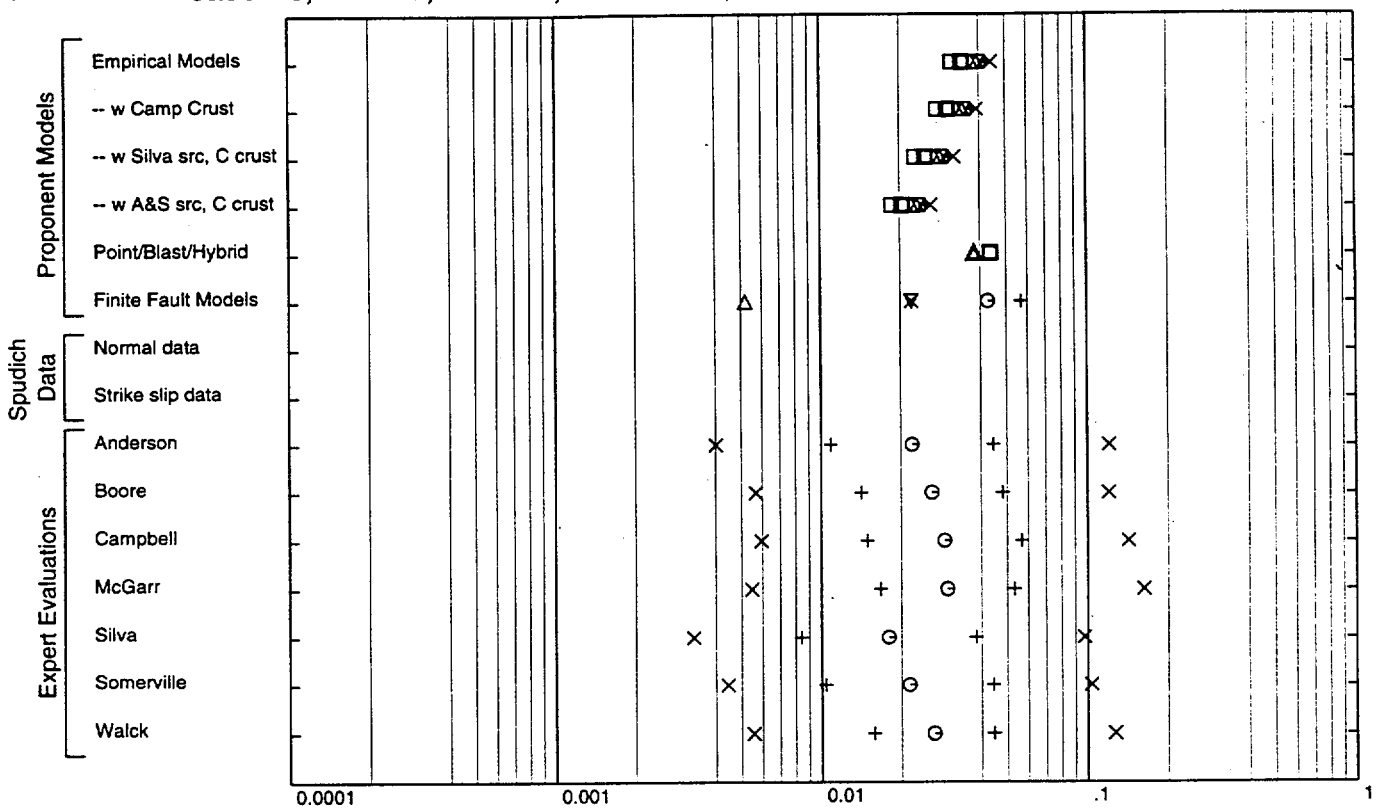
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

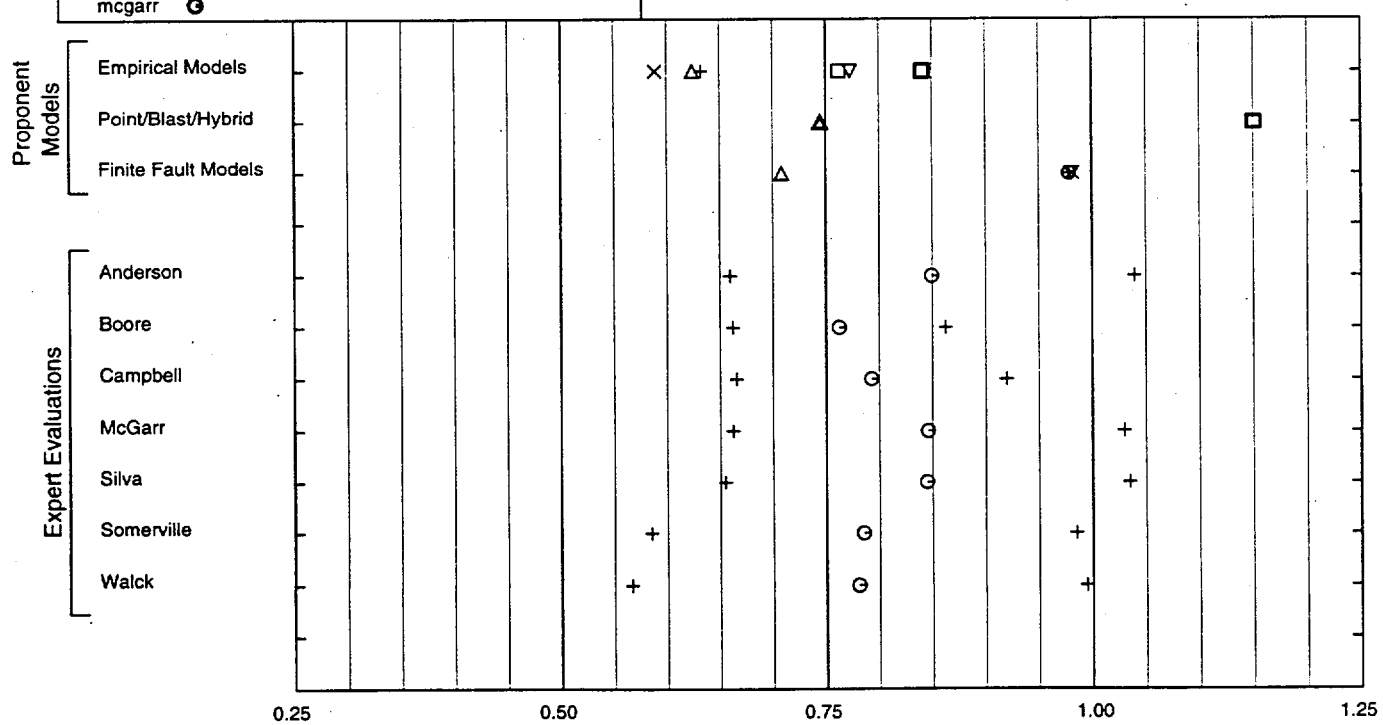
case 16, M= 7.5, shallow, xd= 50 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

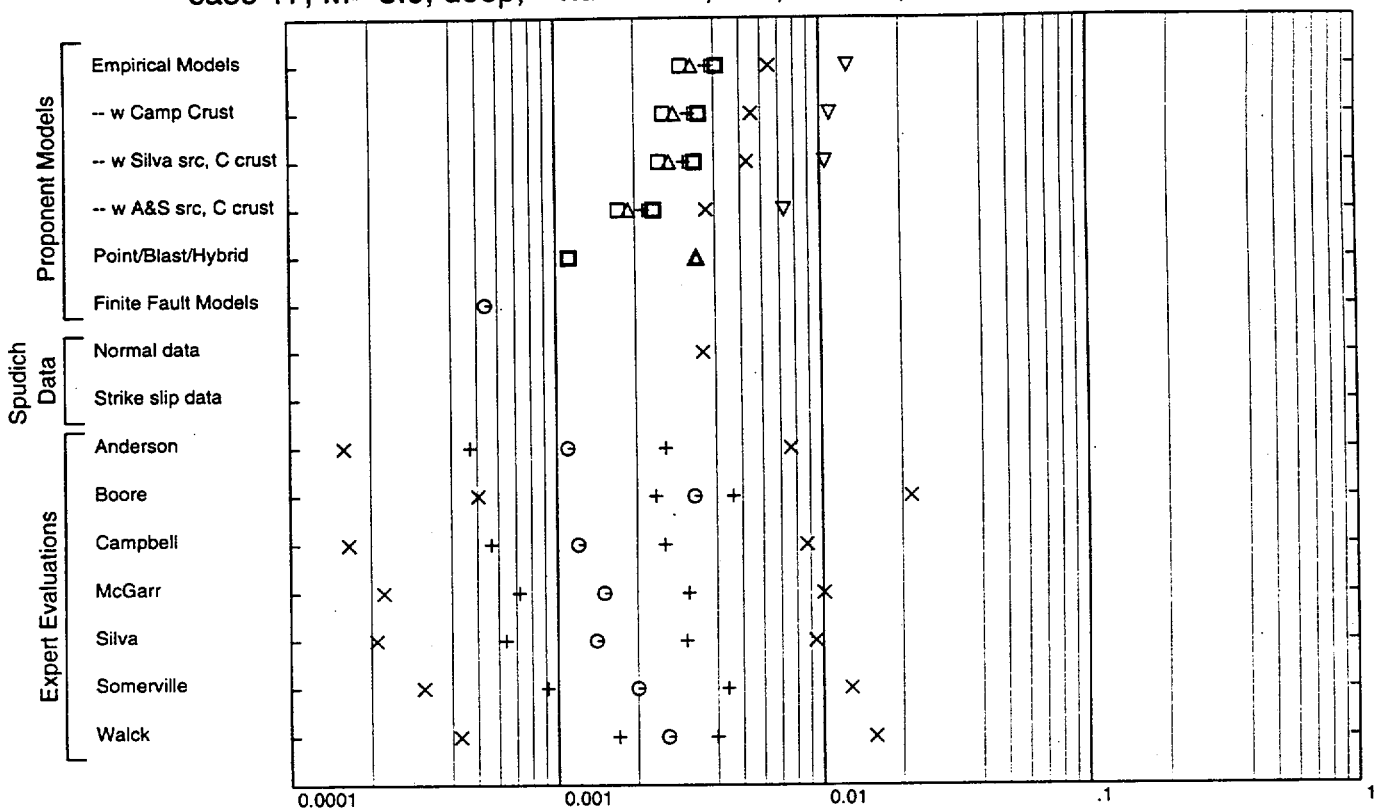
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

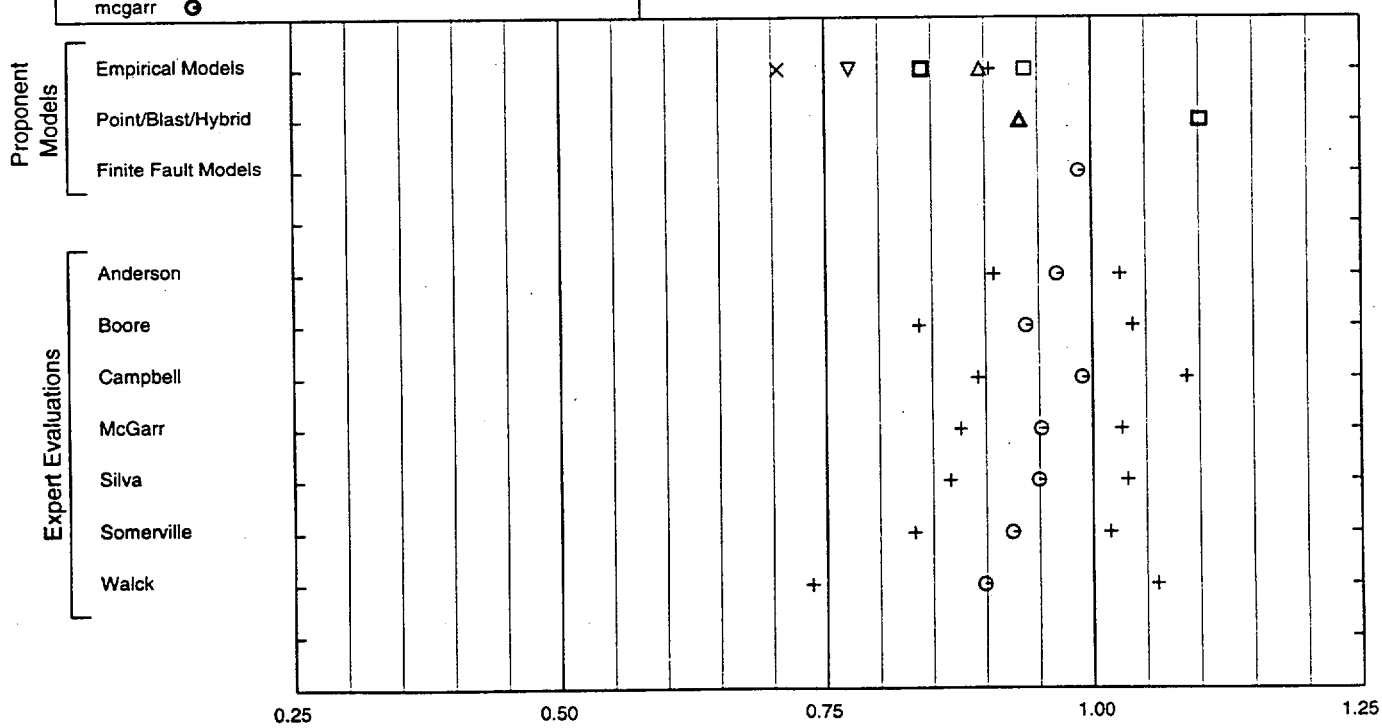
case 17, M= 5.0, deep, xd= 1 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

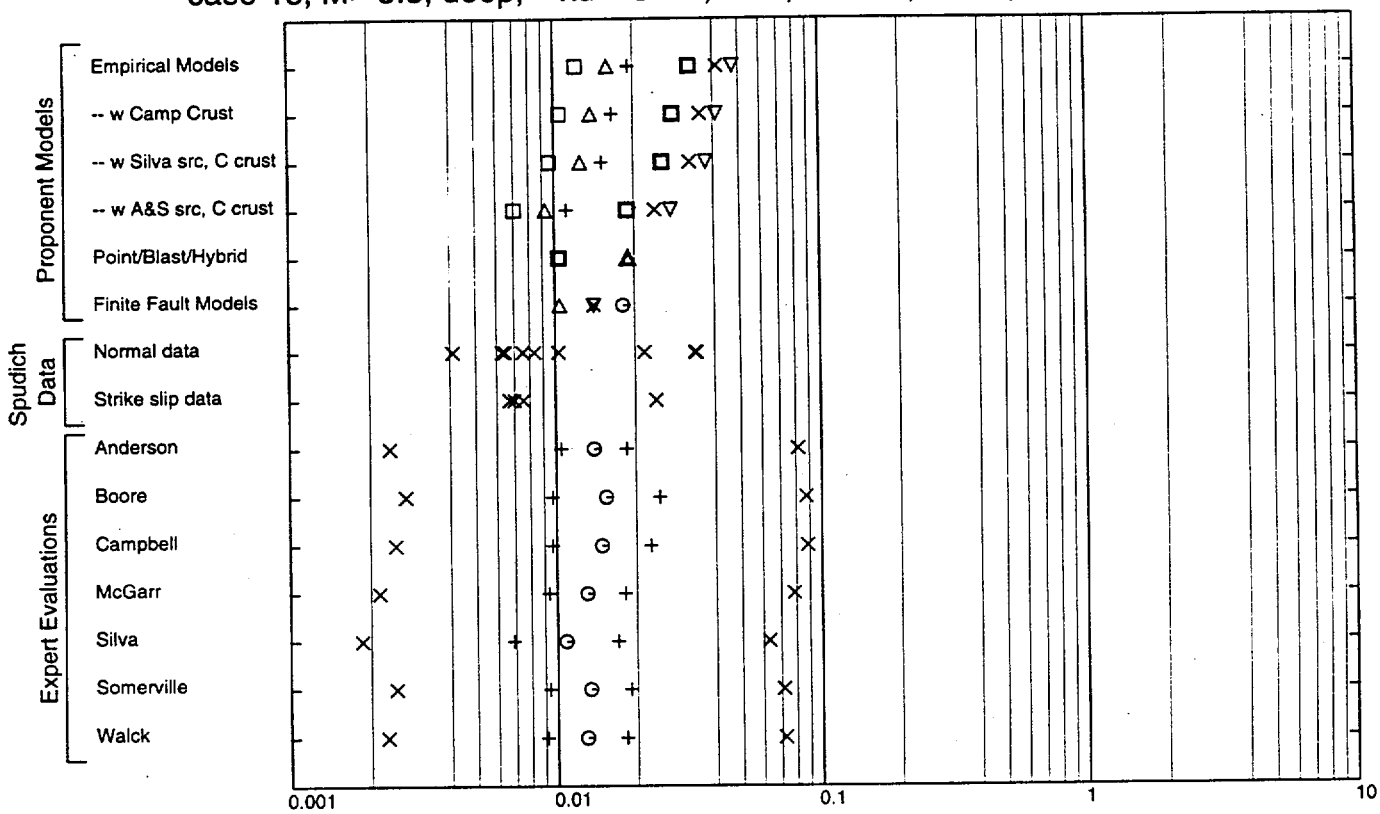
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

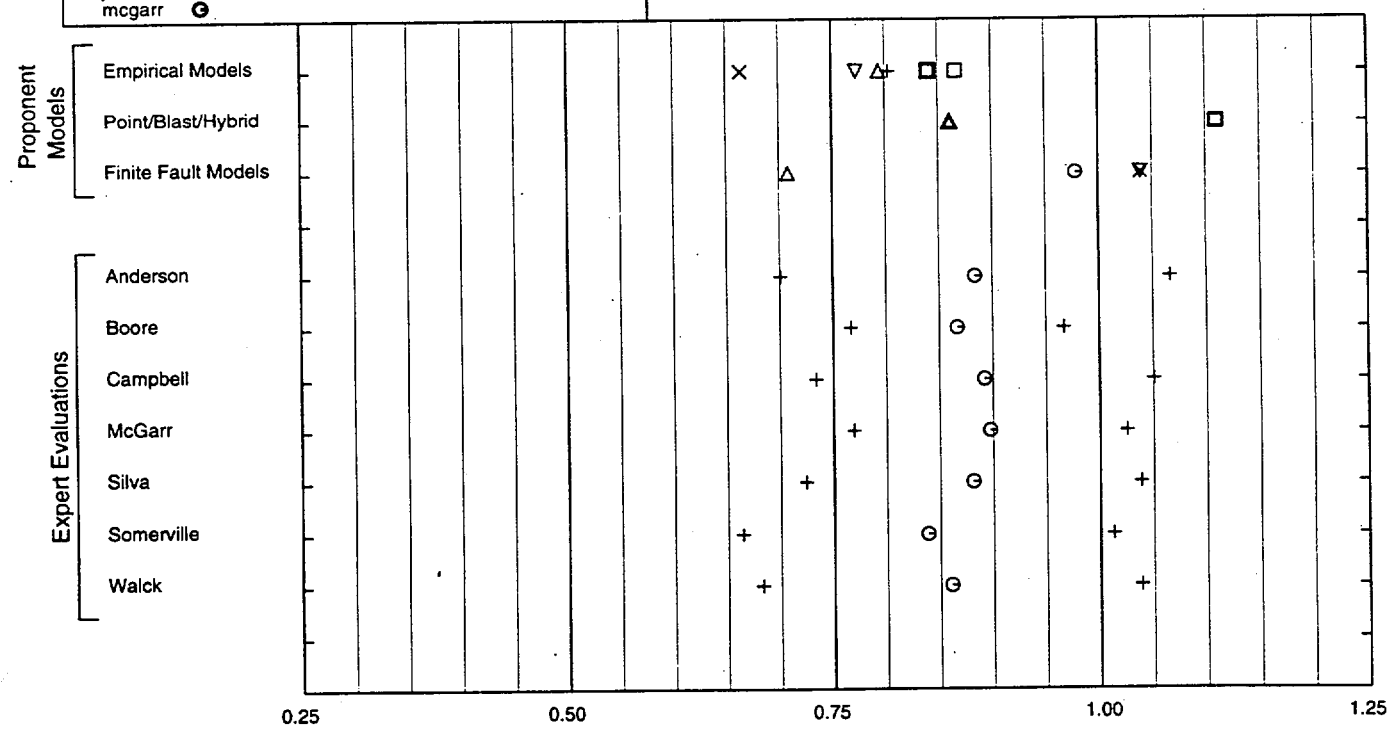
case 18, M= 5.8, deep, xd= 5 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

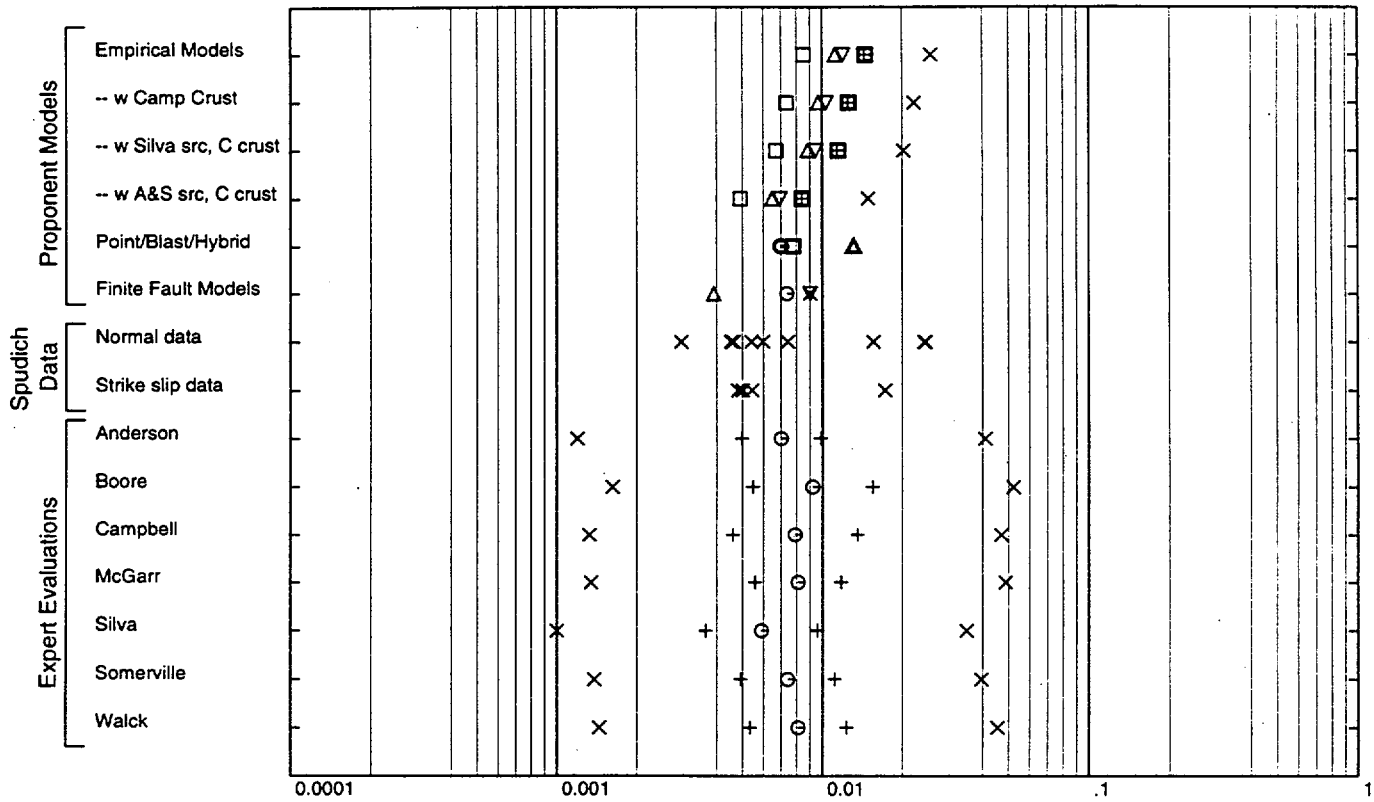
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

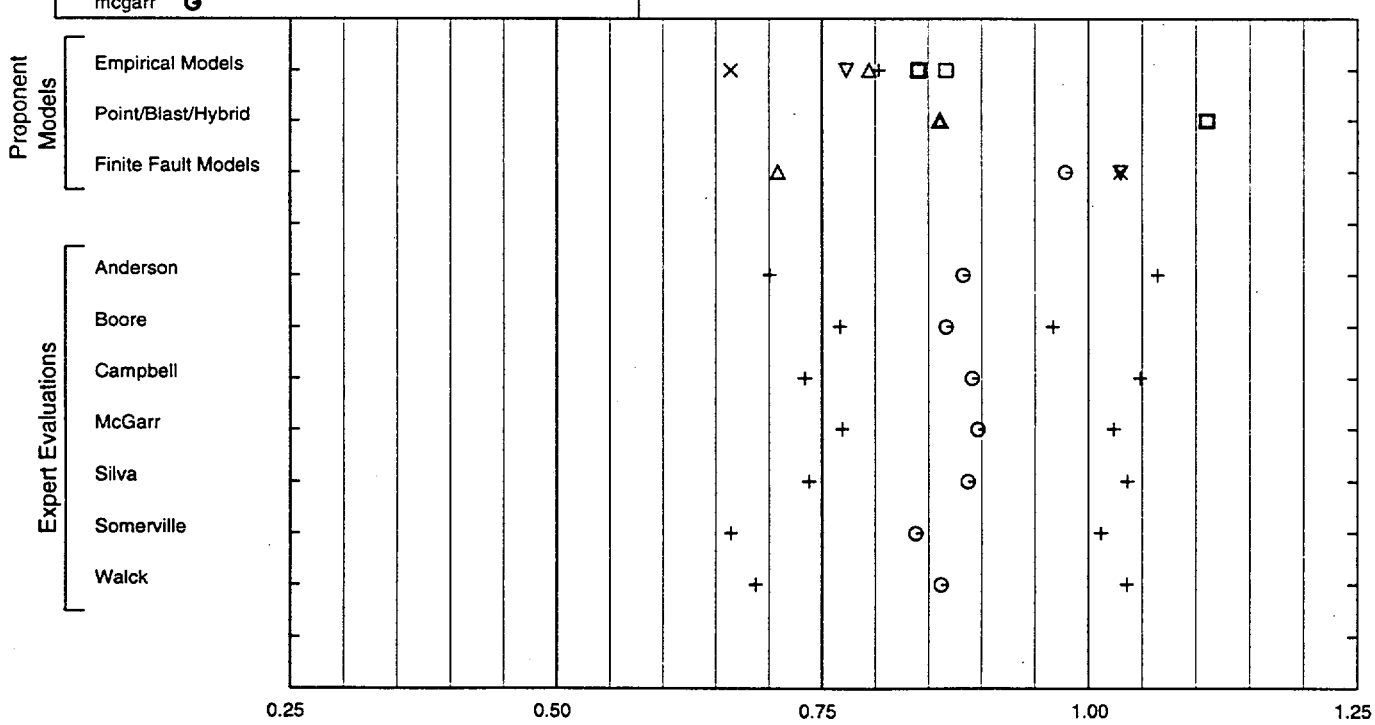
case 19, M= 5.8, deep, xd= -5 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

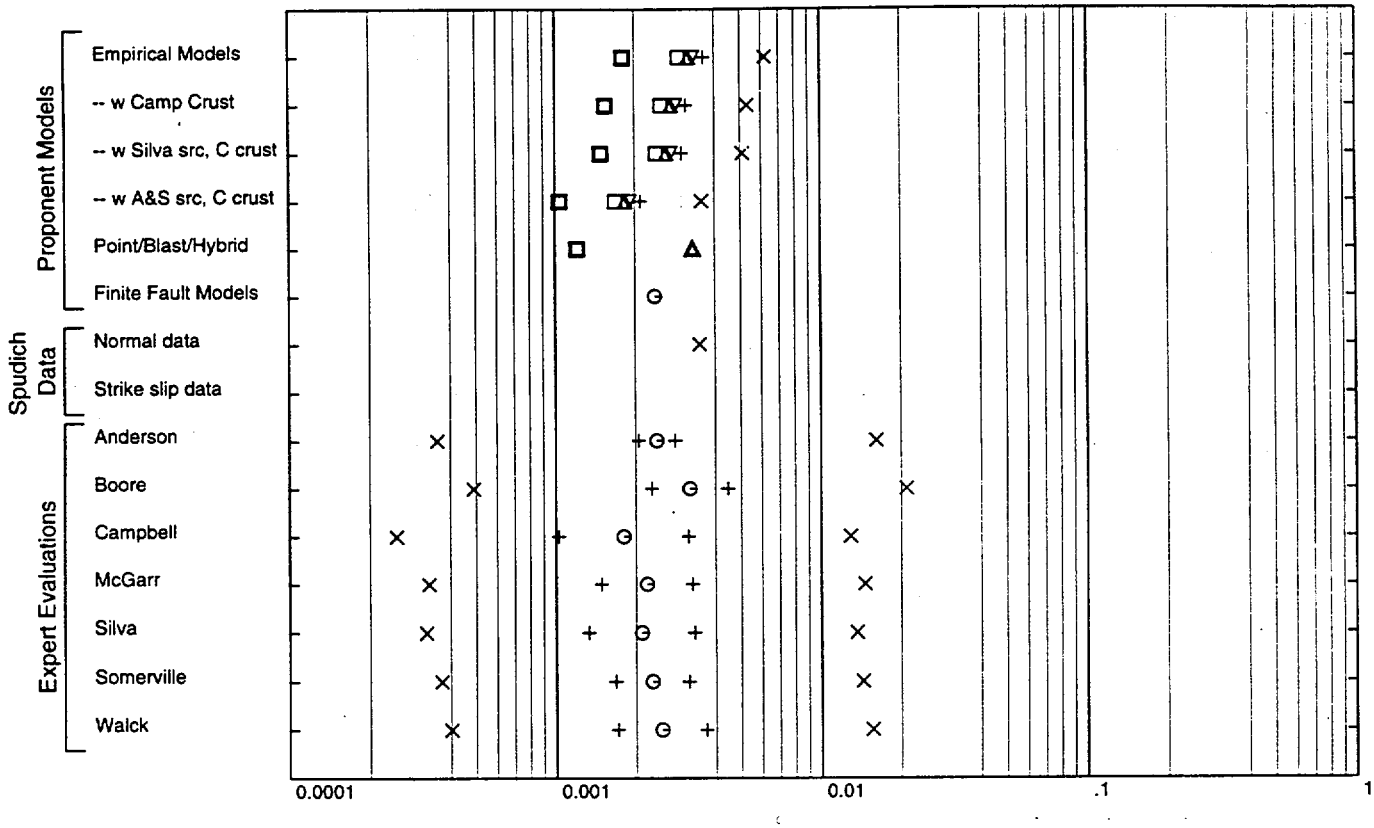
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	■				
mcgarr	⊖				

Spectral Acceleration (g)



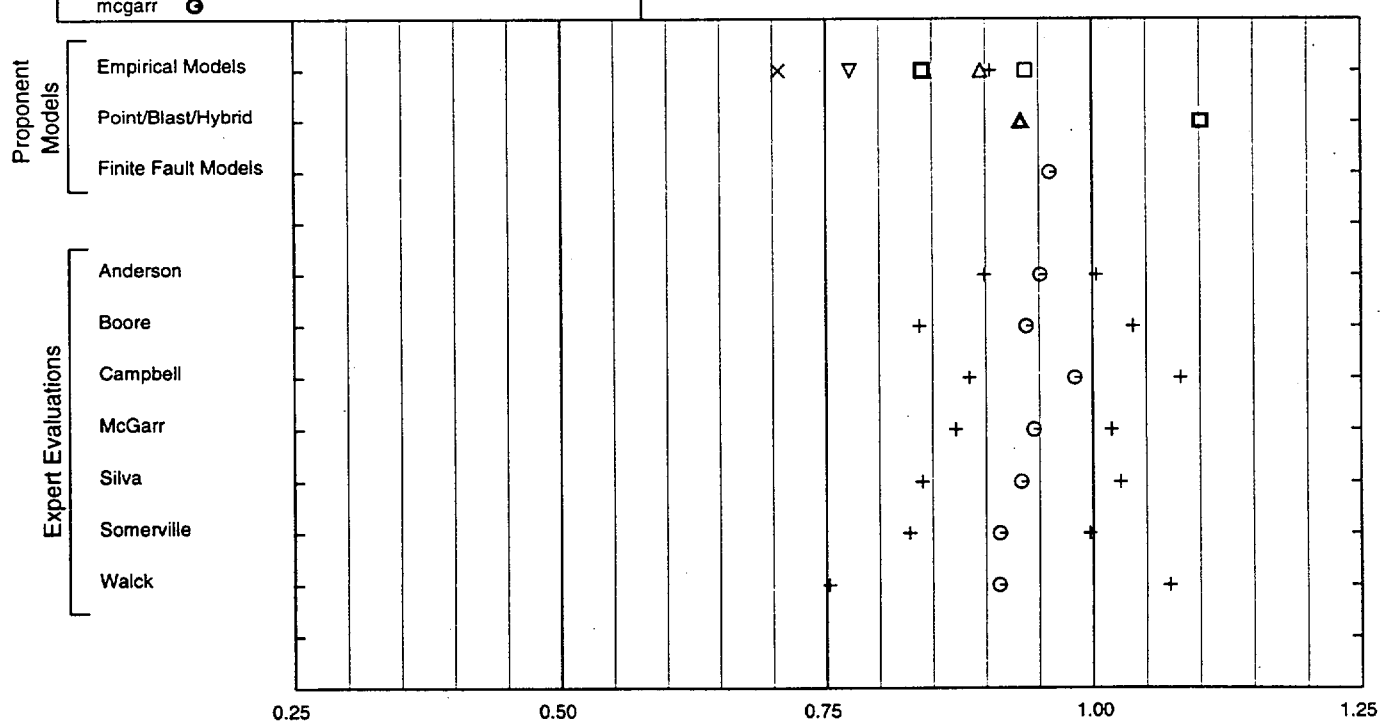
Aleatory Sigma (LN units) w/ Comp Var.

case 20, M= 5.0, shallow, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1

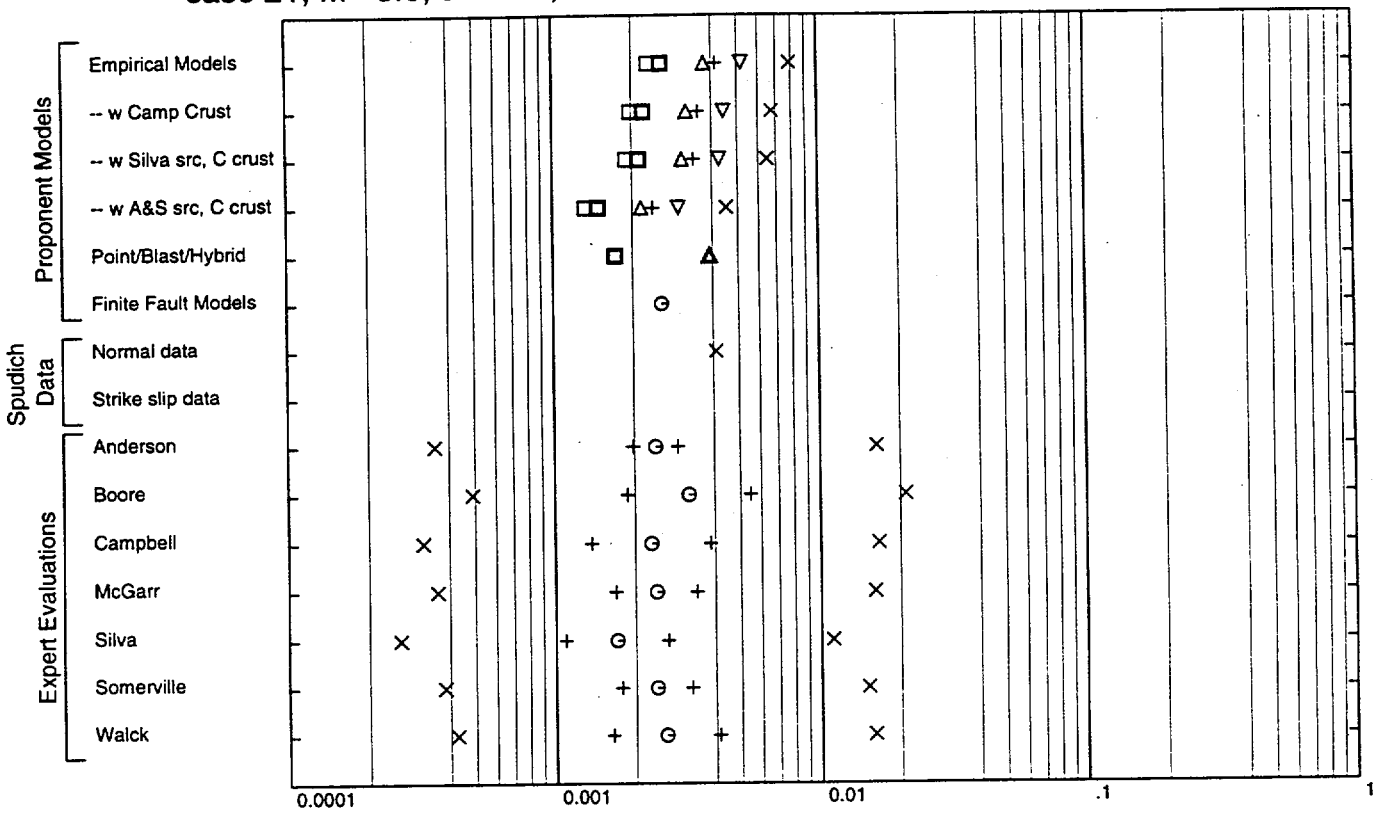


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



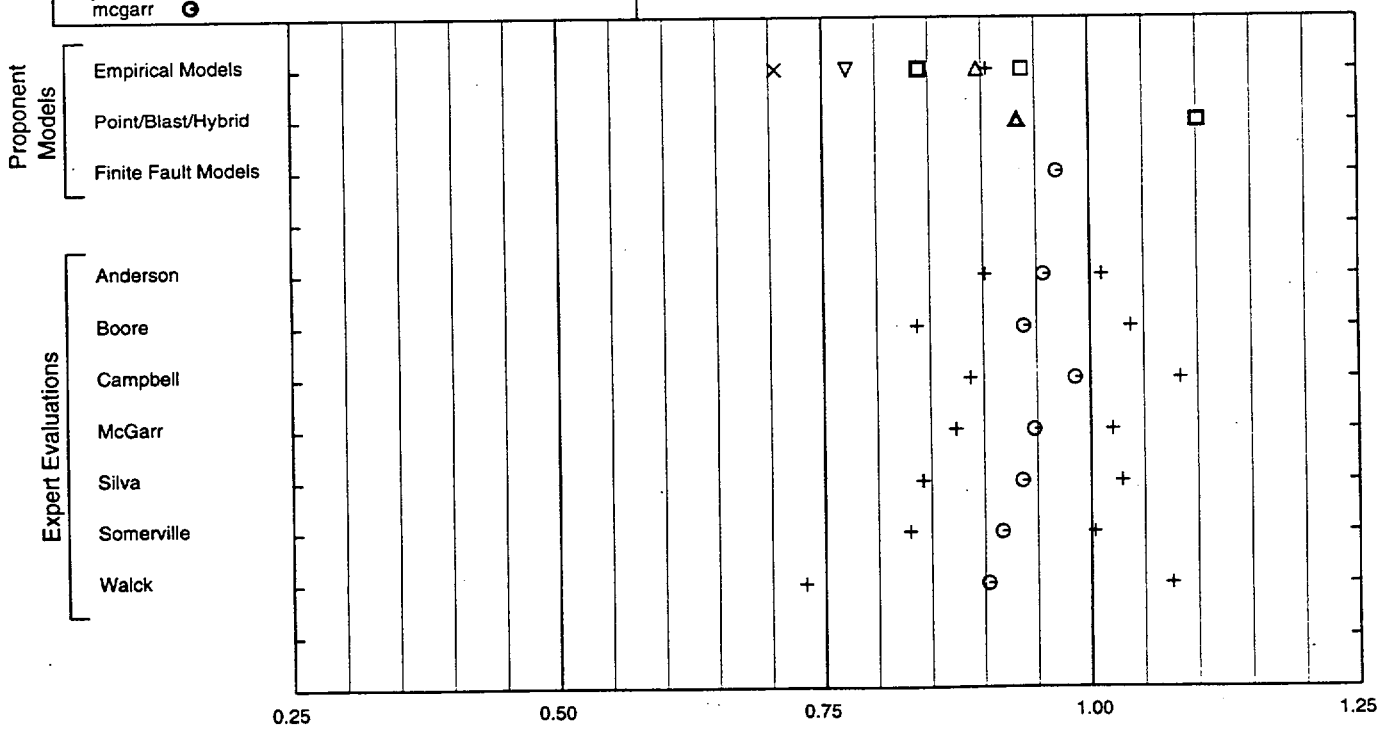
case 21, M= 5.0, shallow, xd= 10 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



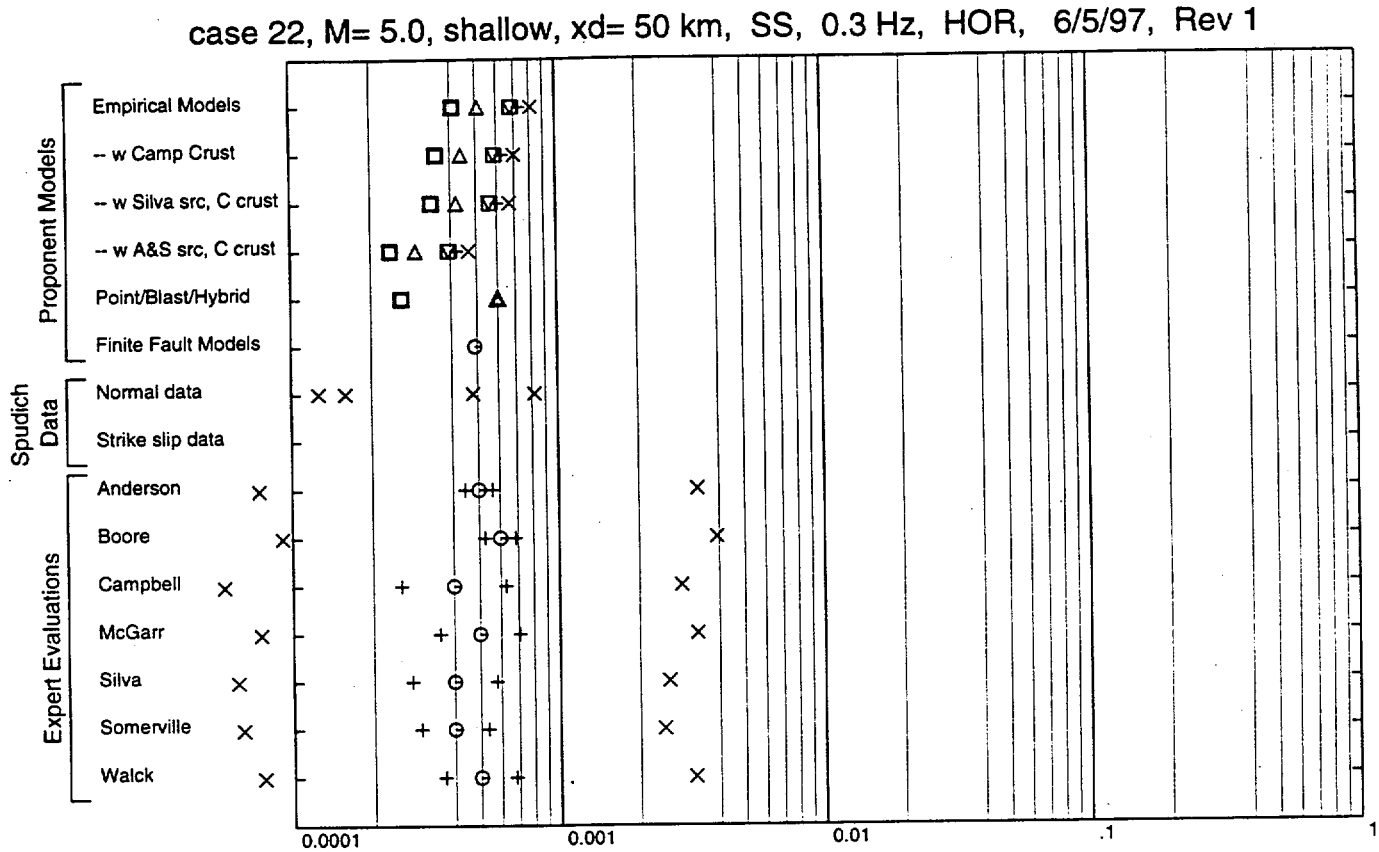
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)

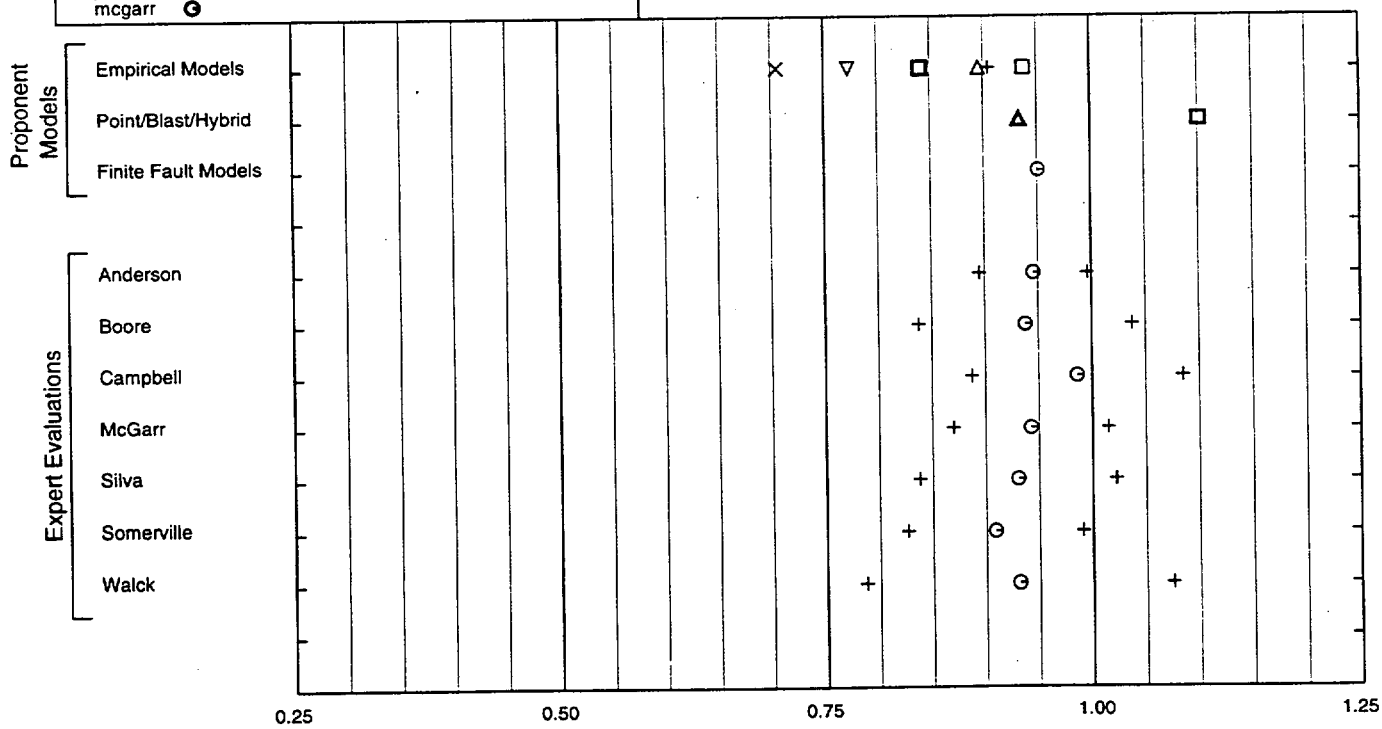


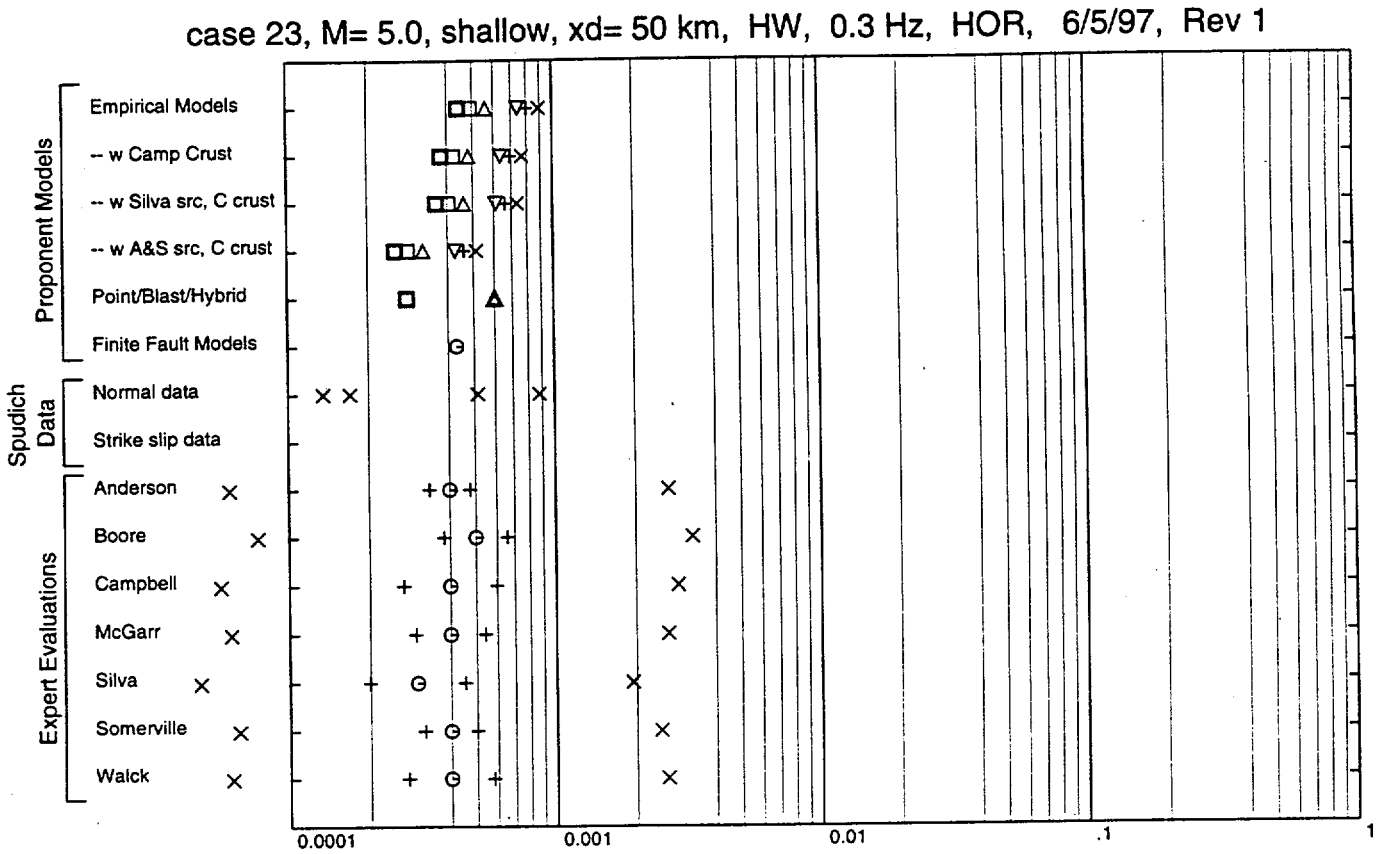
Aleatory Sigma (LN units) w/ Comp Var.



LEGEND

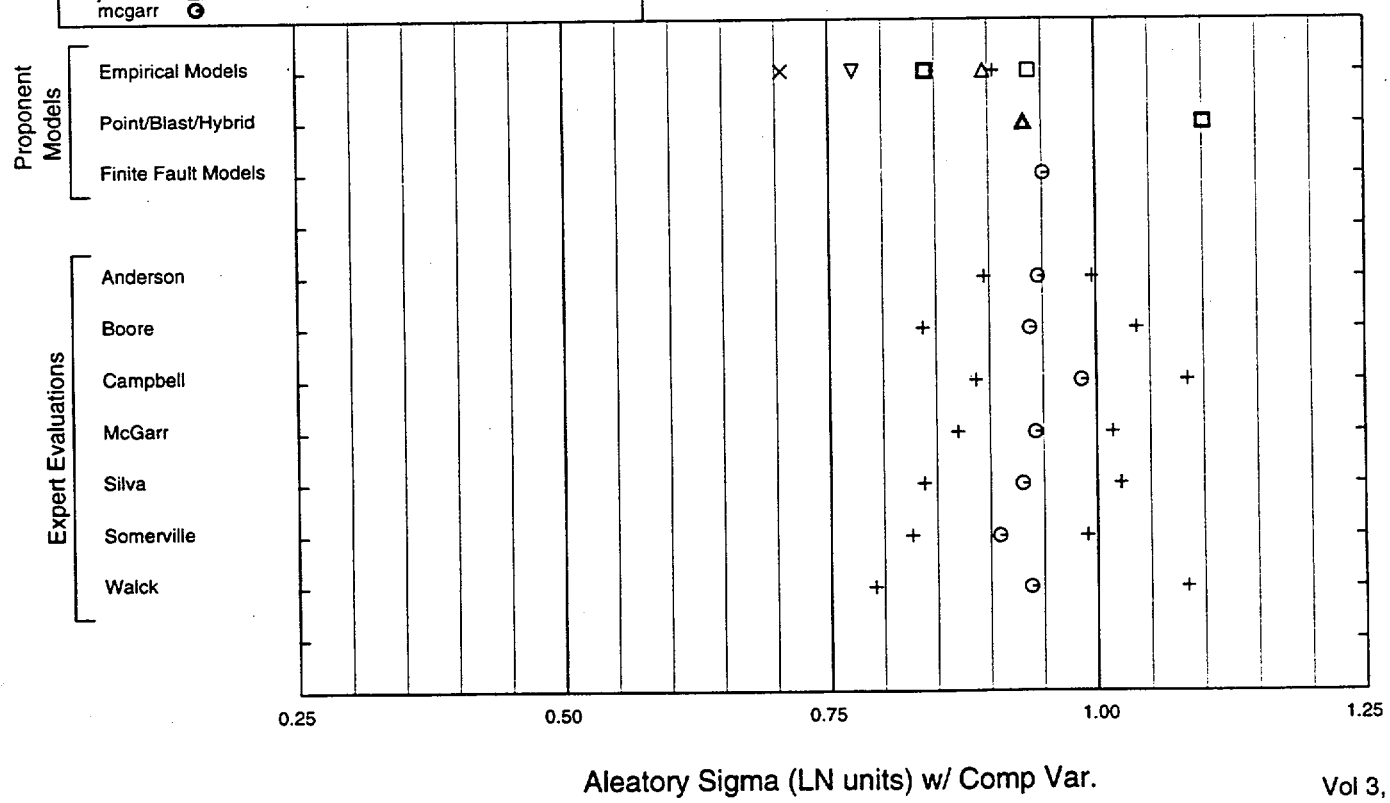
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



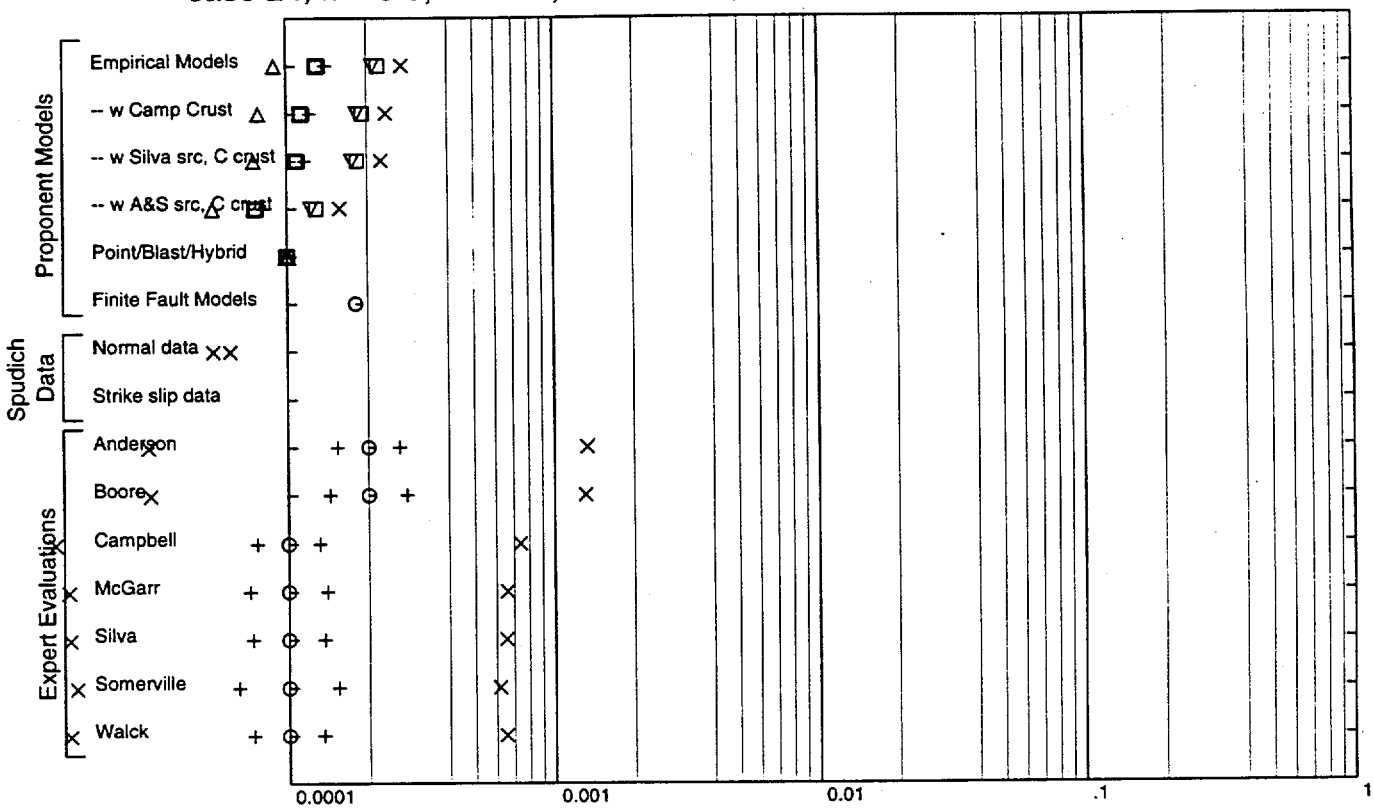


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



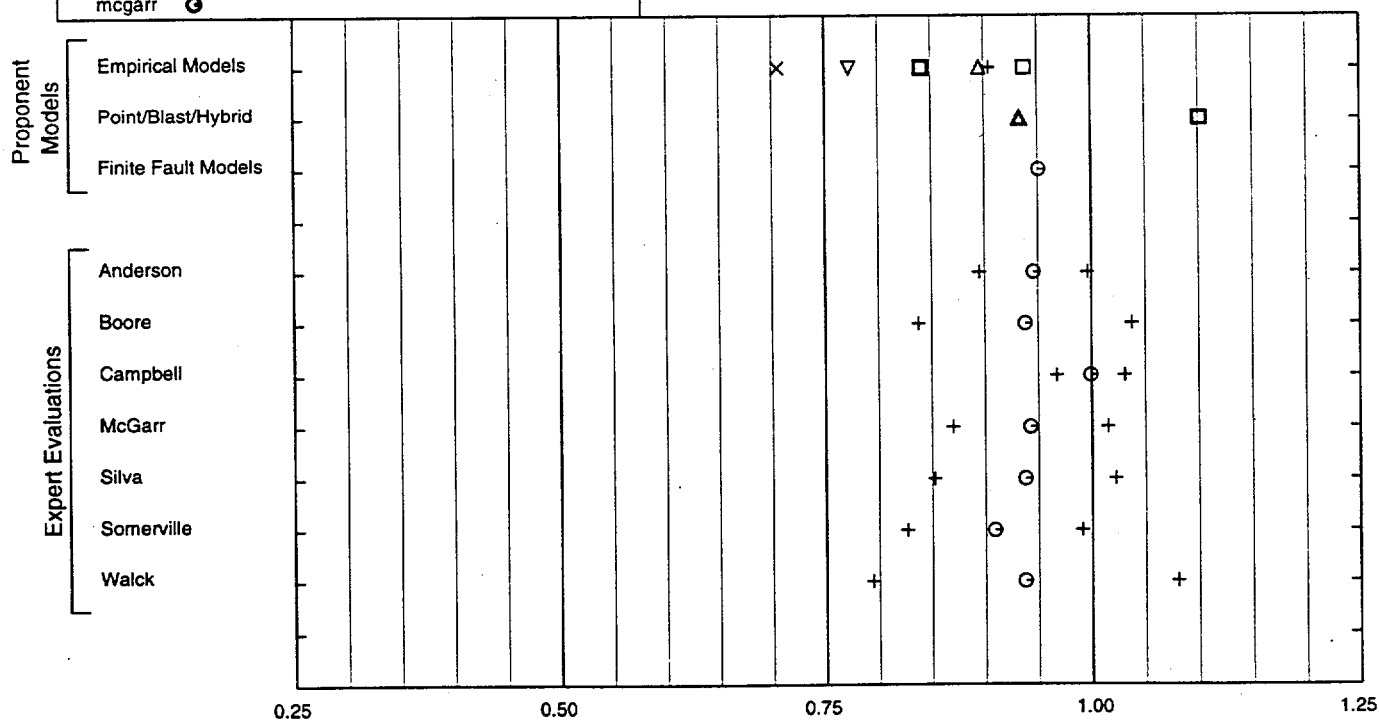
case 24, M= 5.0, shallow, xd=160 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

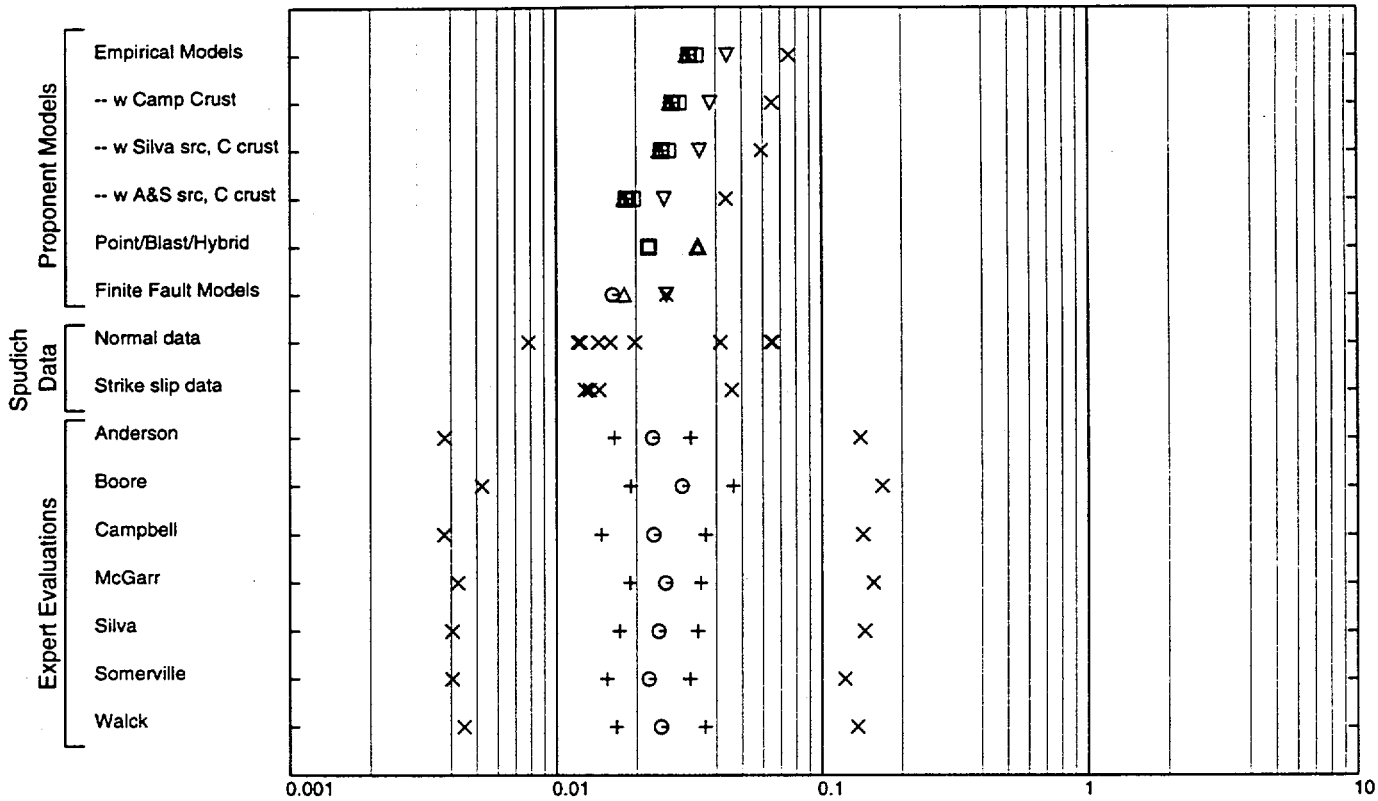
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

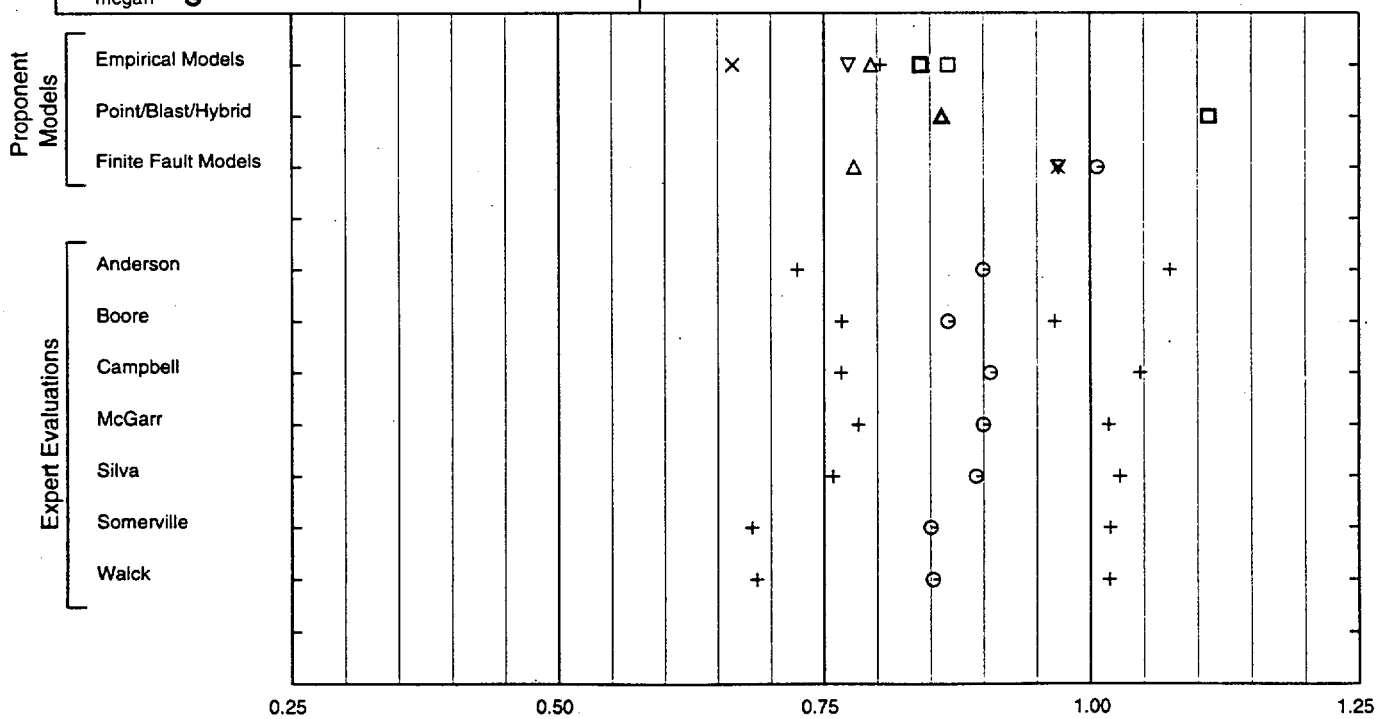
case 25, M= 5.8, shallow, xd= 1 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

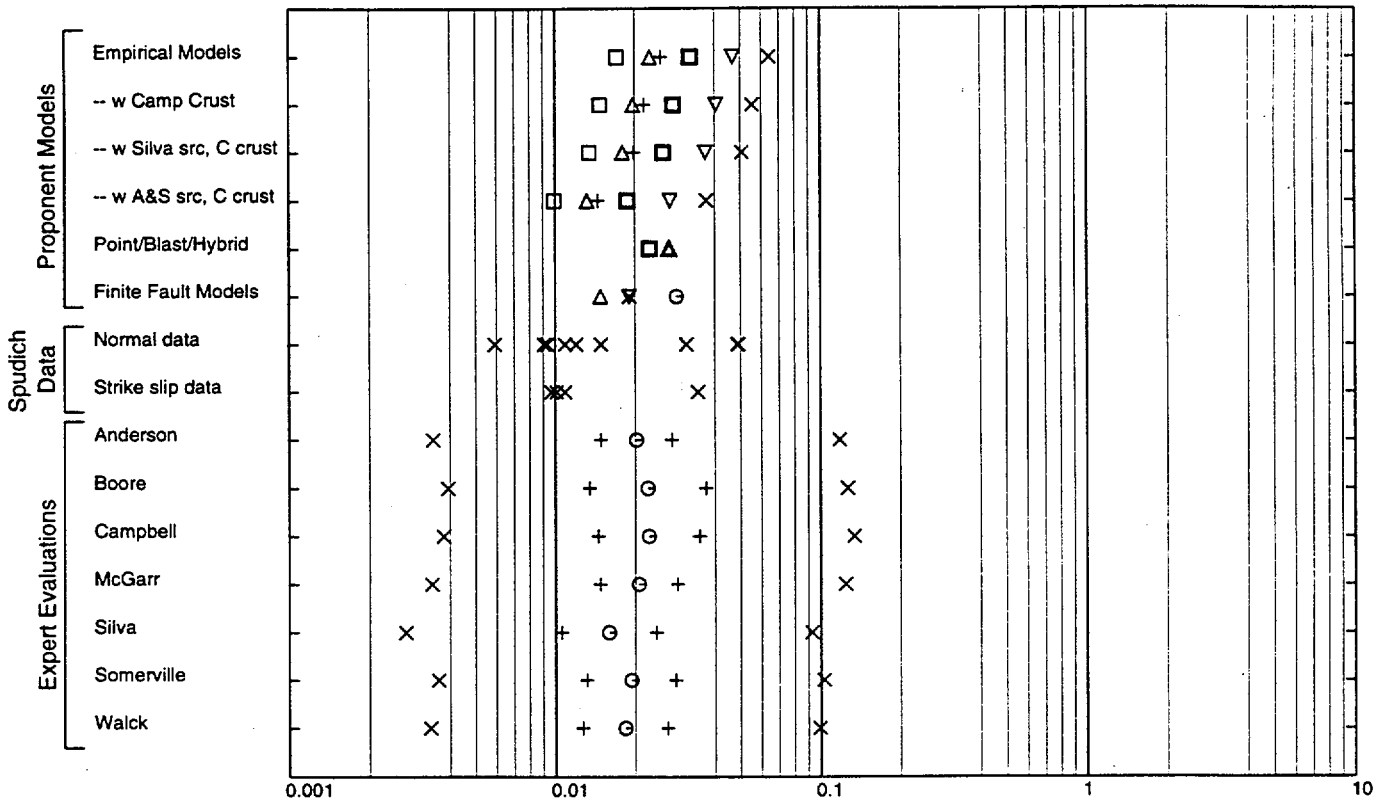
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

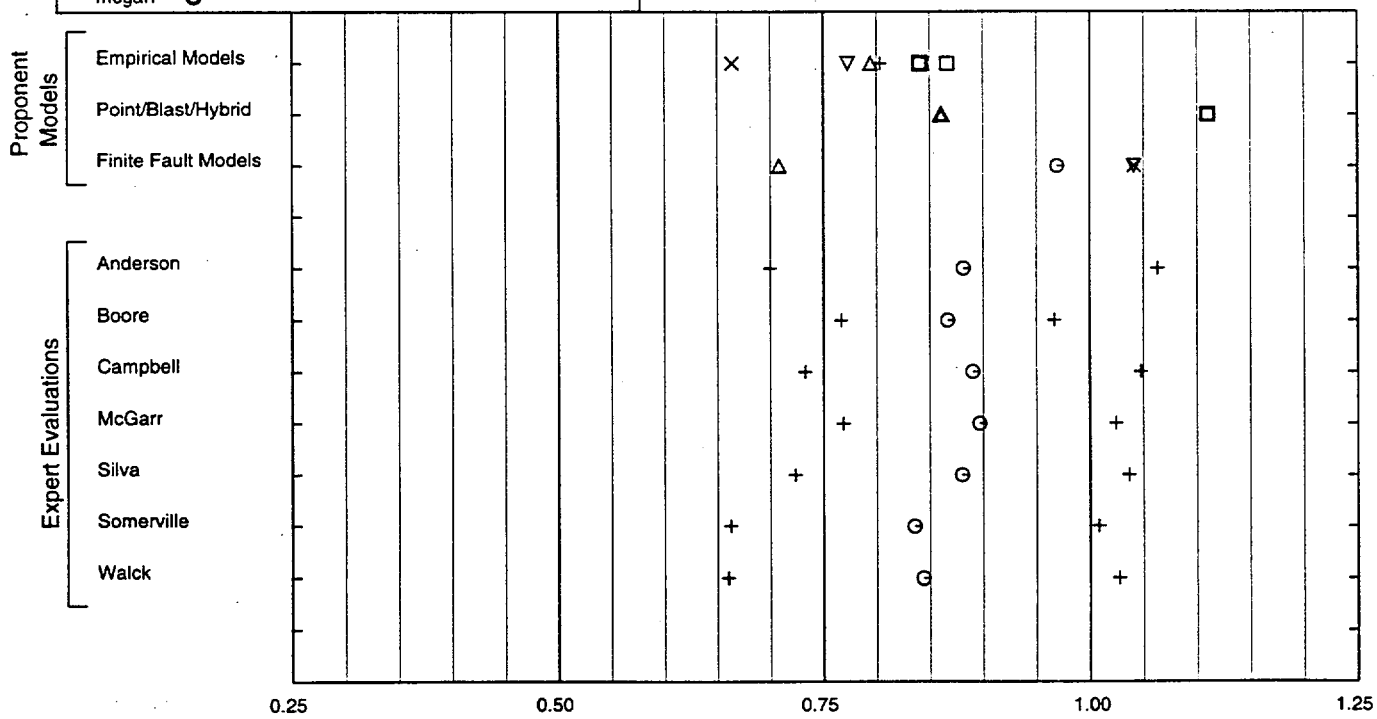
case 26, M= 5.8, shallow, xd= 5 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

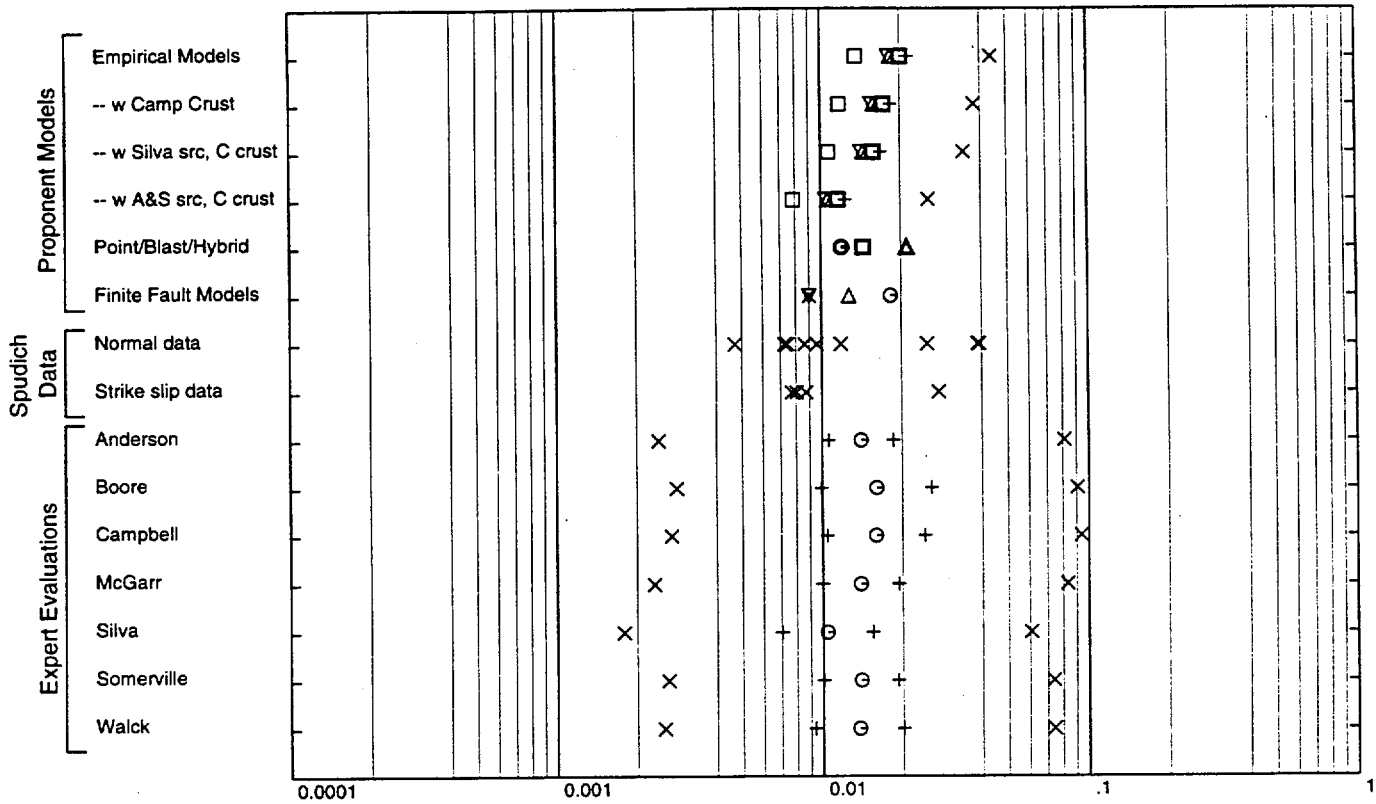
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



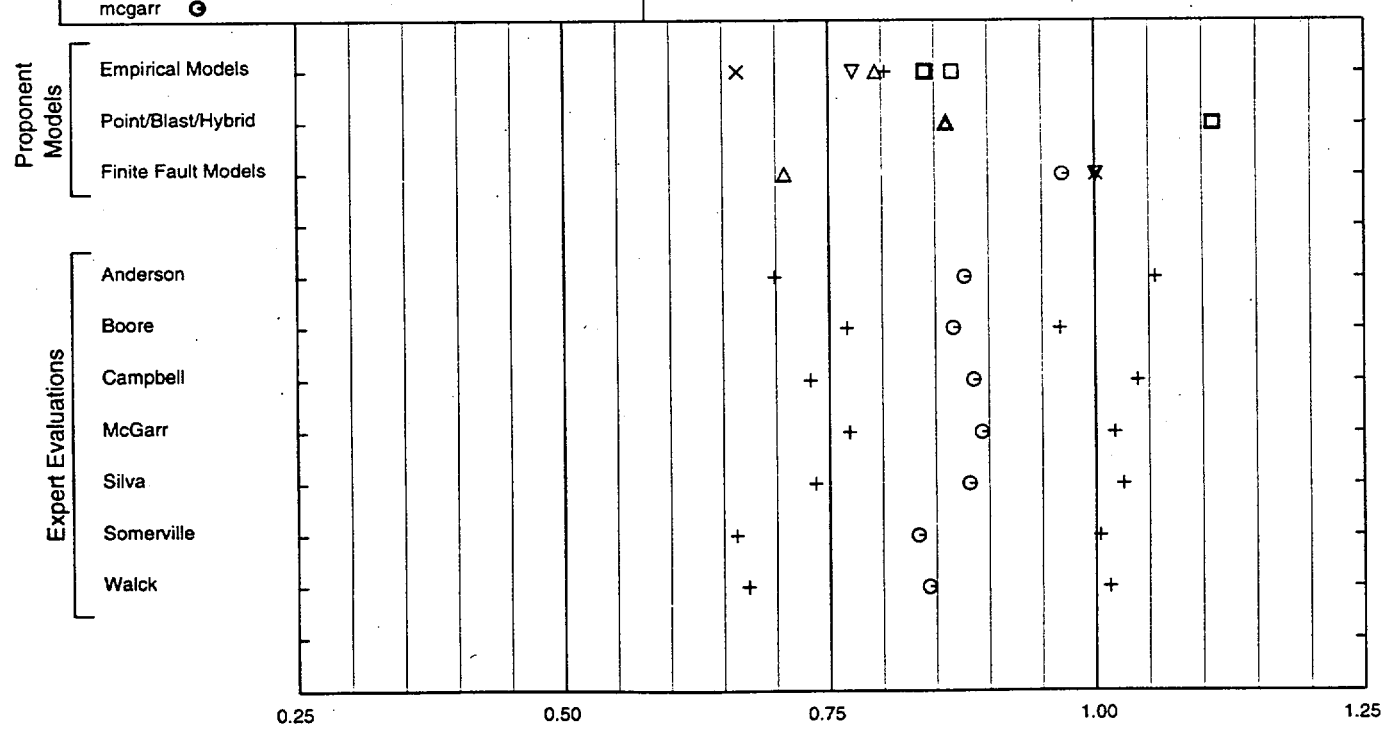
Aleatory Sigma (LN units) w/ Comp Var.

case 27, M= 5.8, shallow, xd= -5 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1

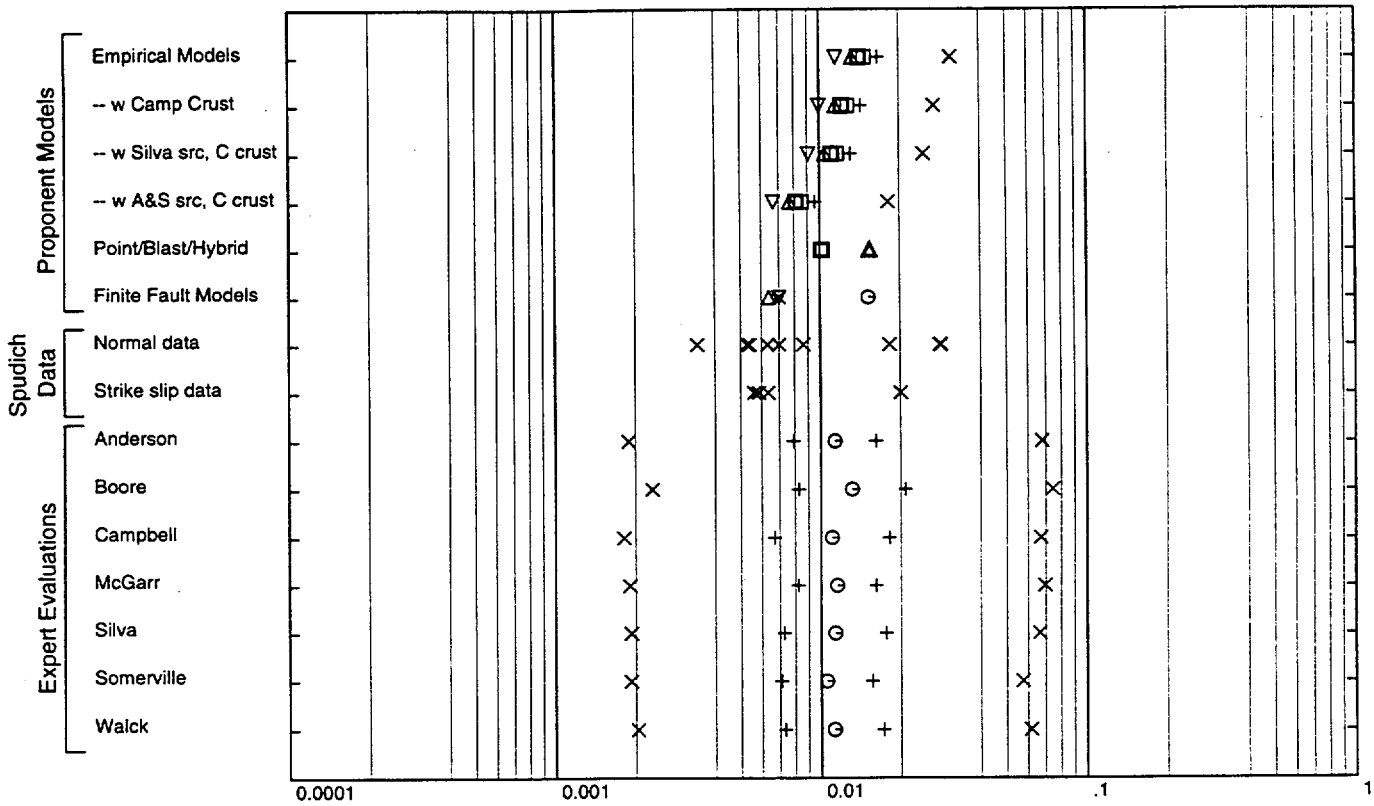


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

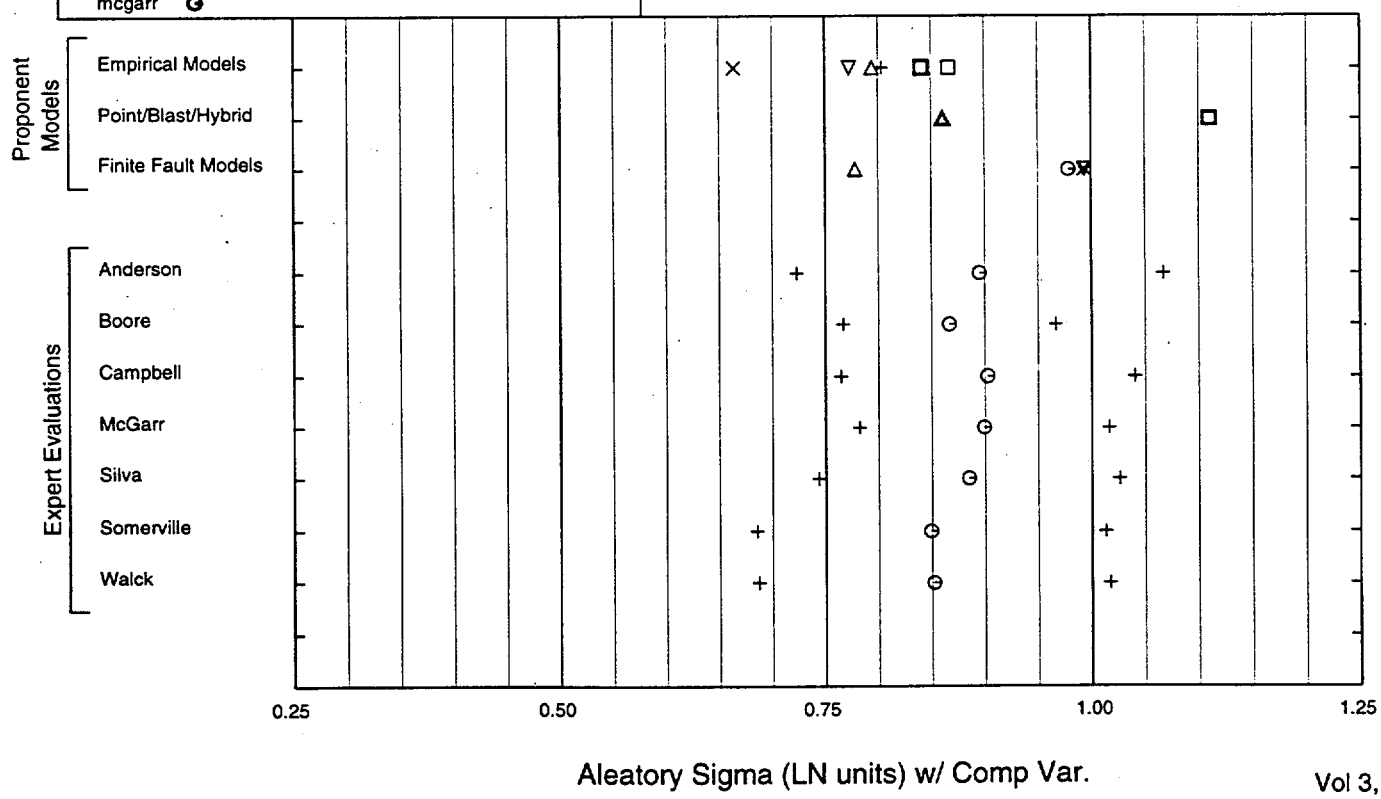


case 28, M= 5.8, shallow, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1

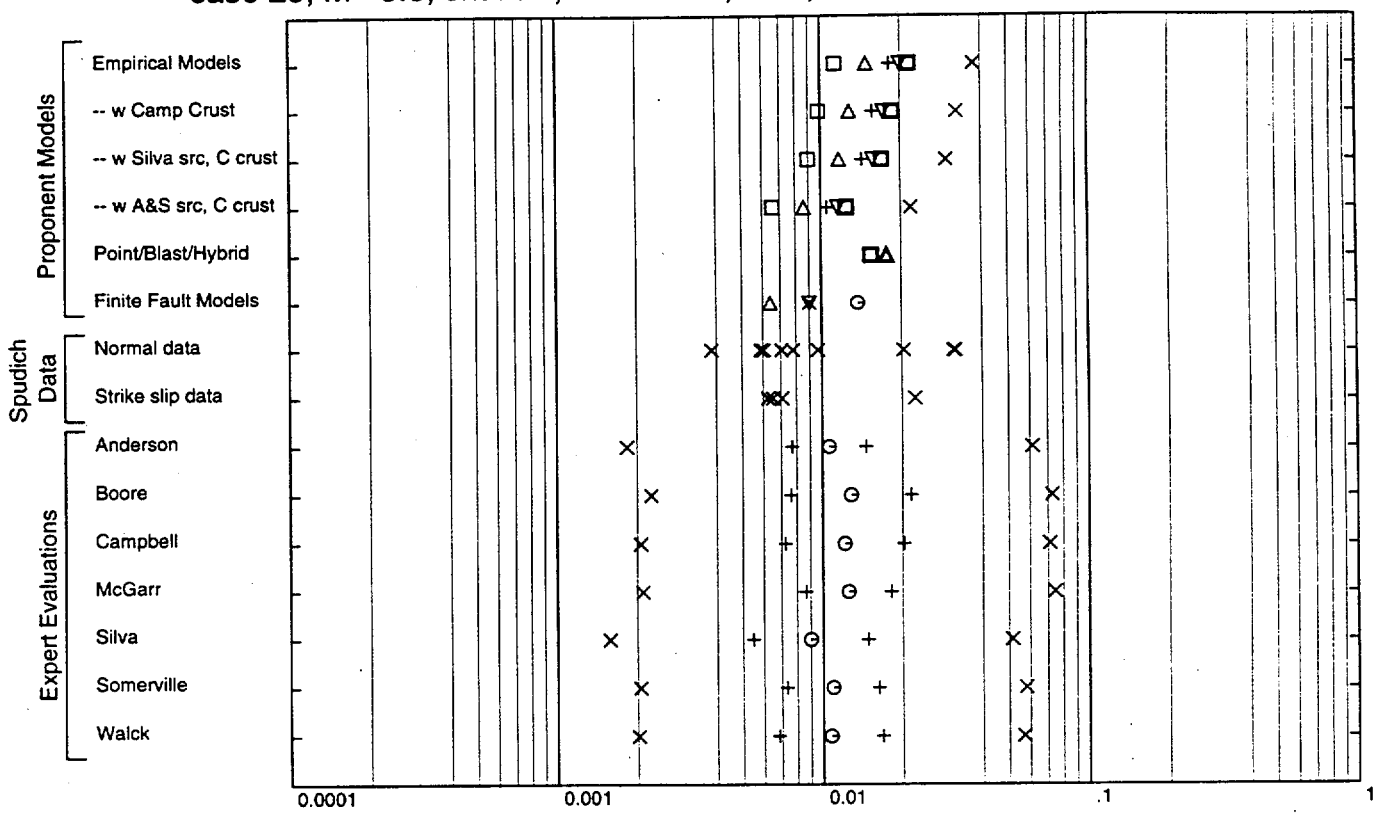


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



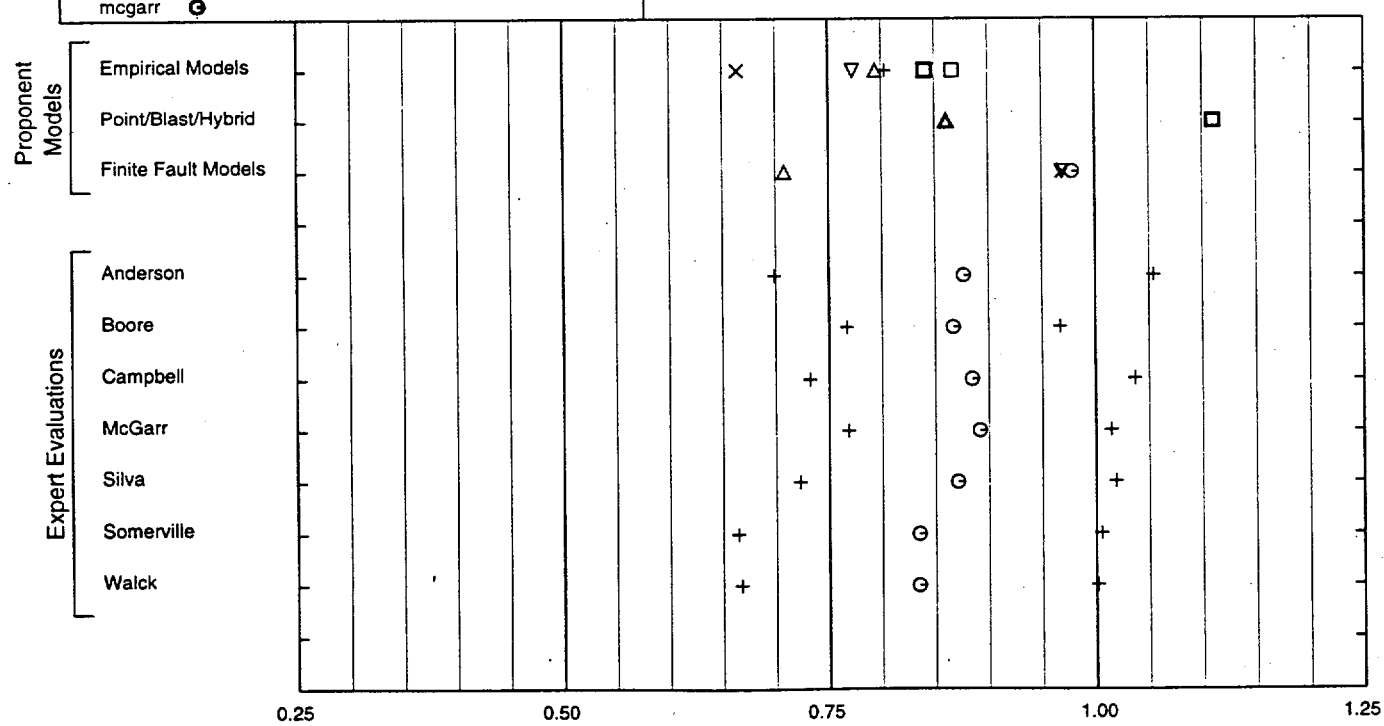
case 29, M= 5.8, shallow, xd= 10 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

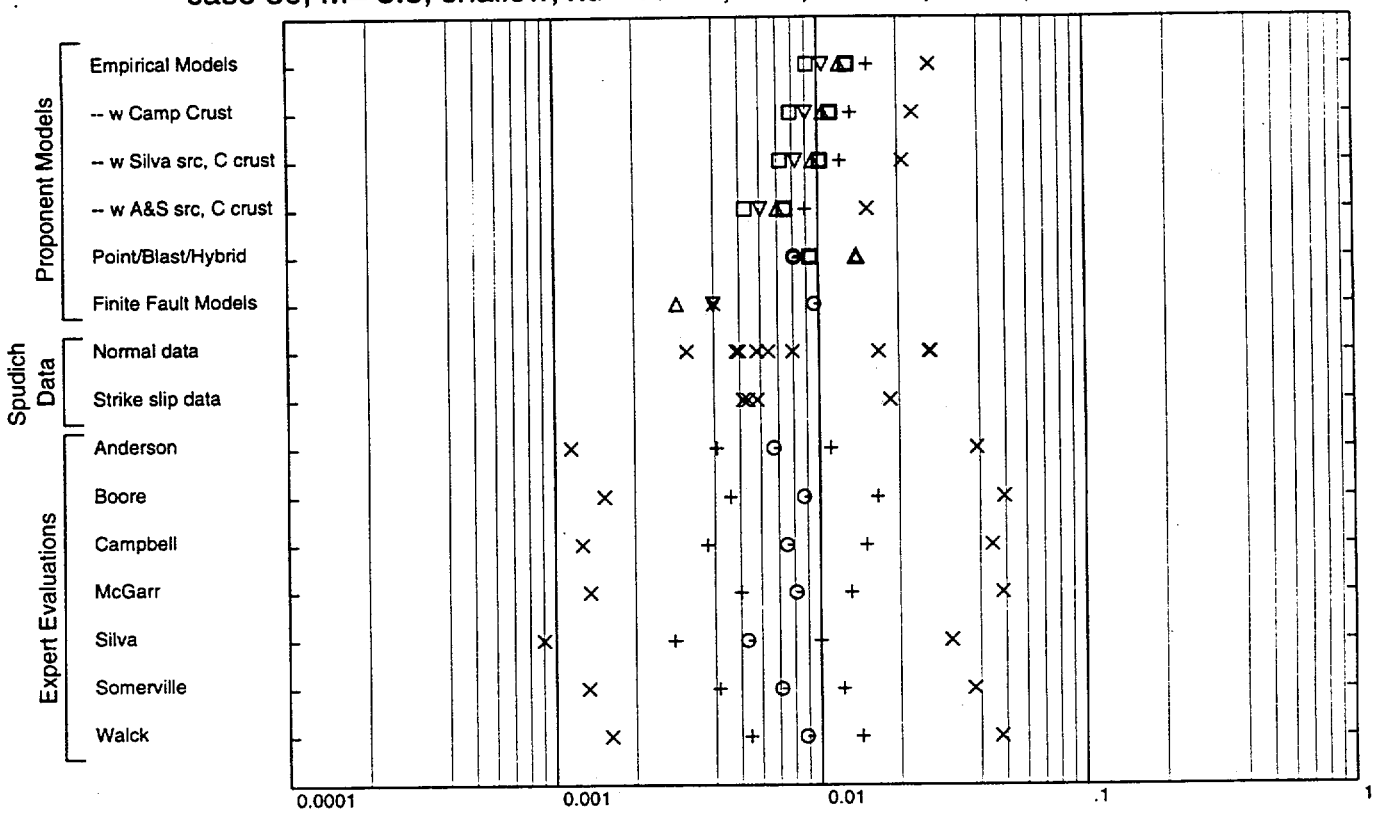
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

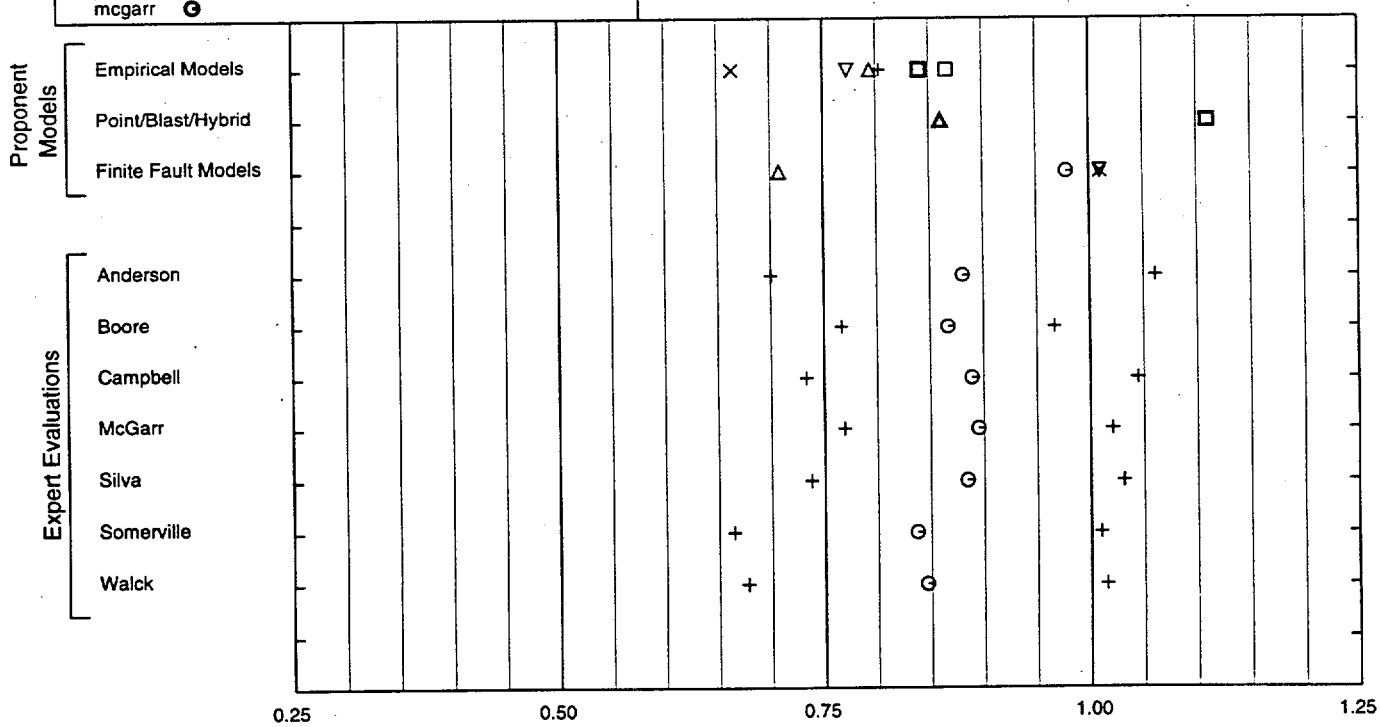
case 30, M= 5.8, shallow, xd=-10 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

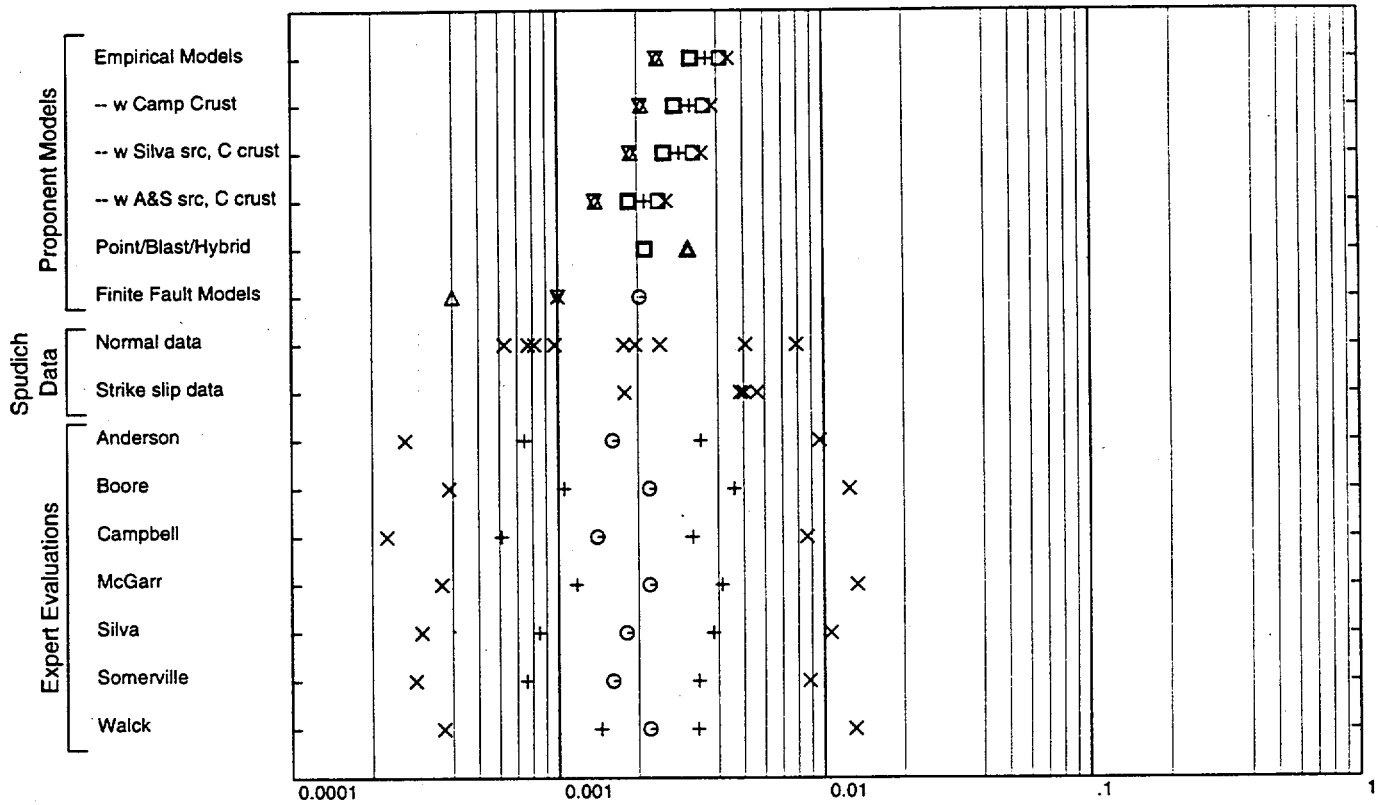
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

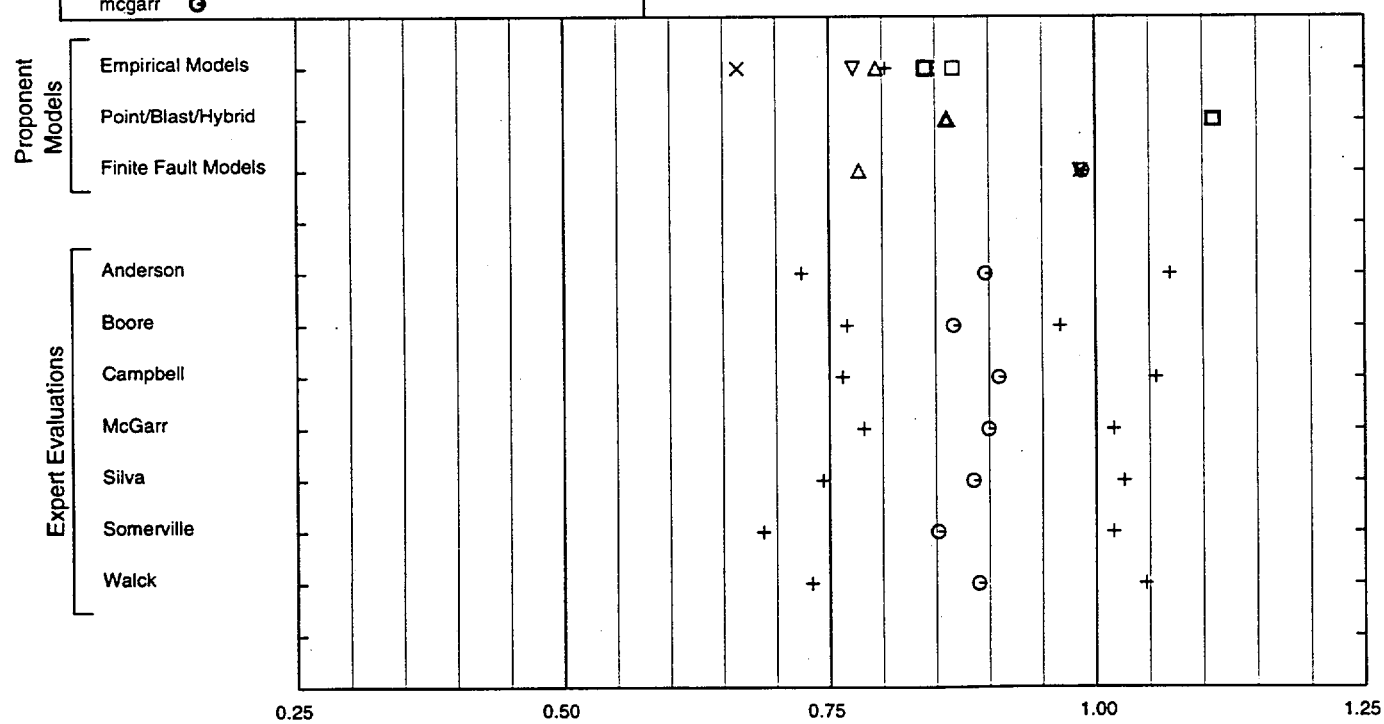
case 31, M= 5.8, shallow, xd= 50 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

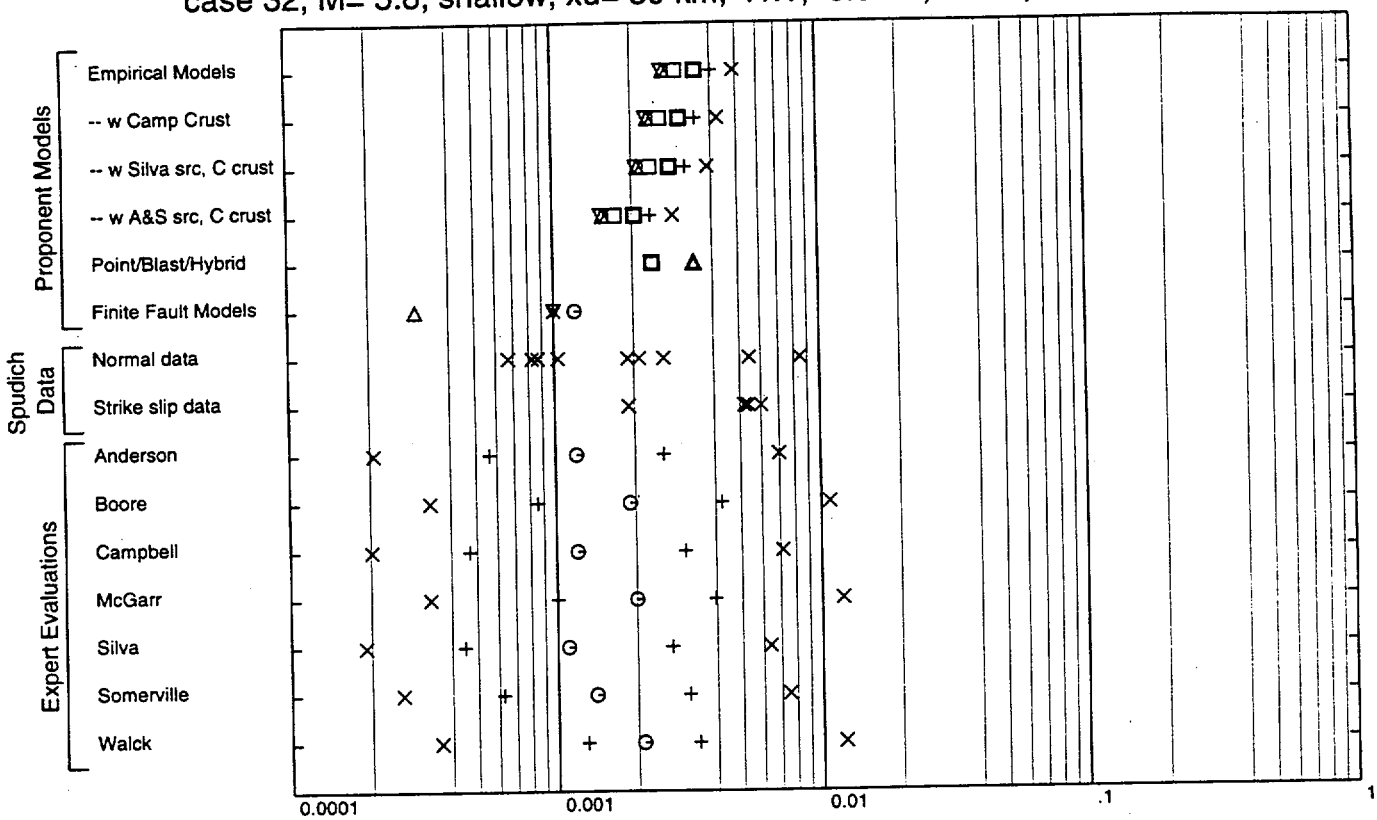
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

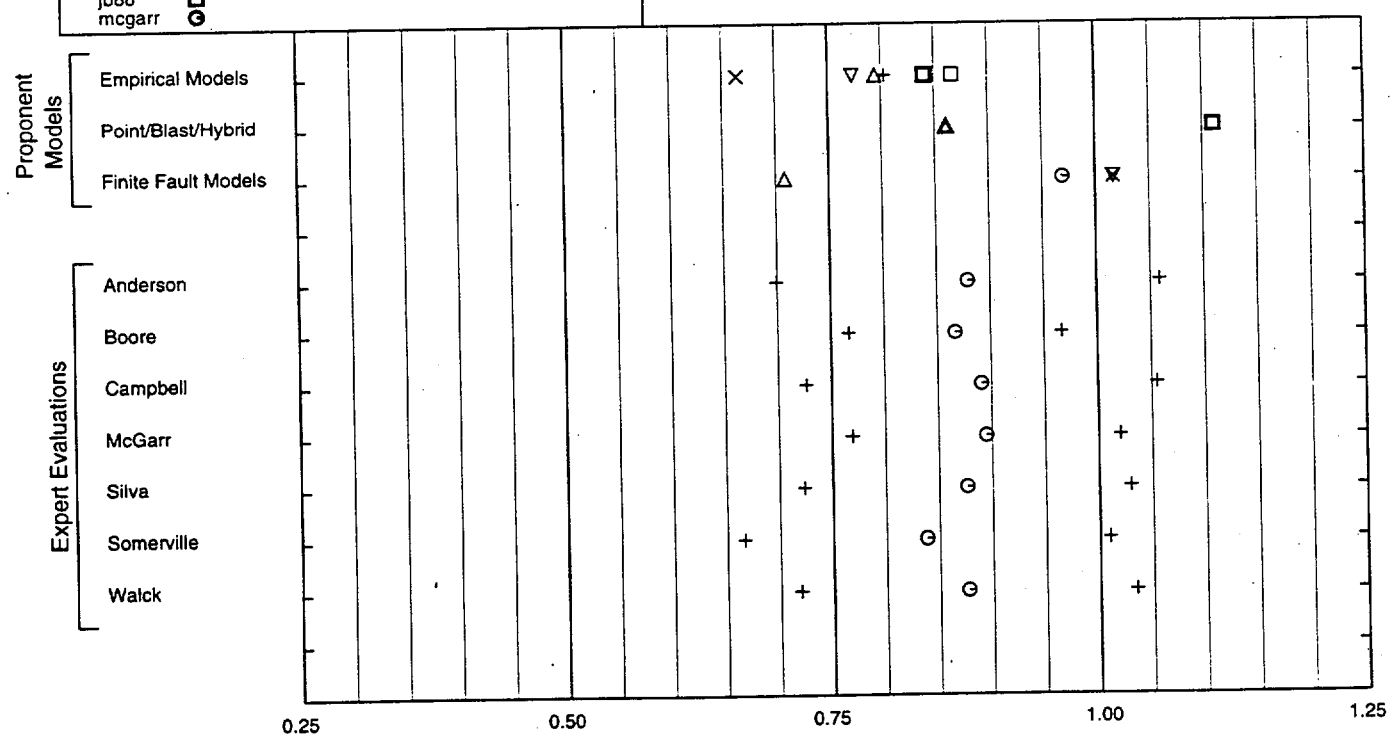
case 32, M= 5.8, shallow, xd= 50 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

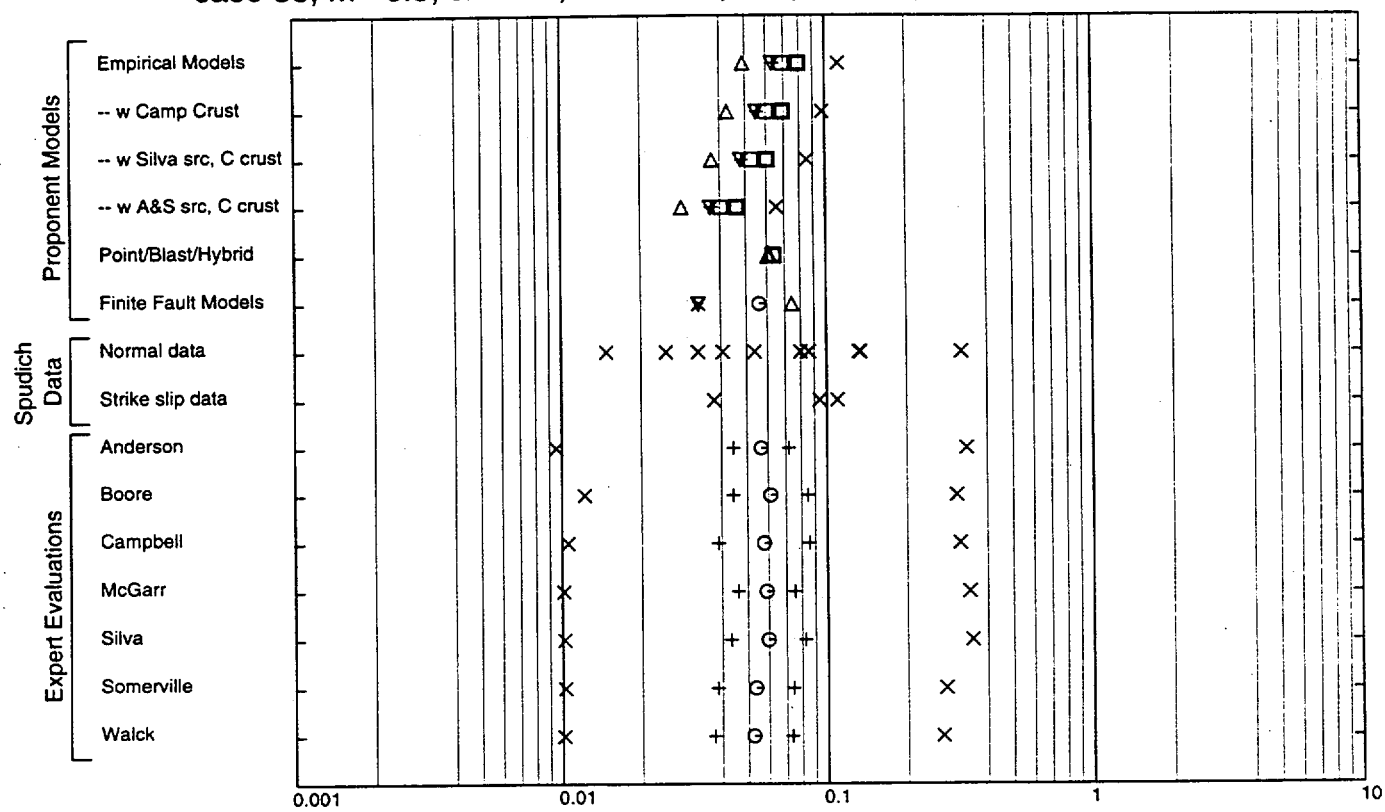
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

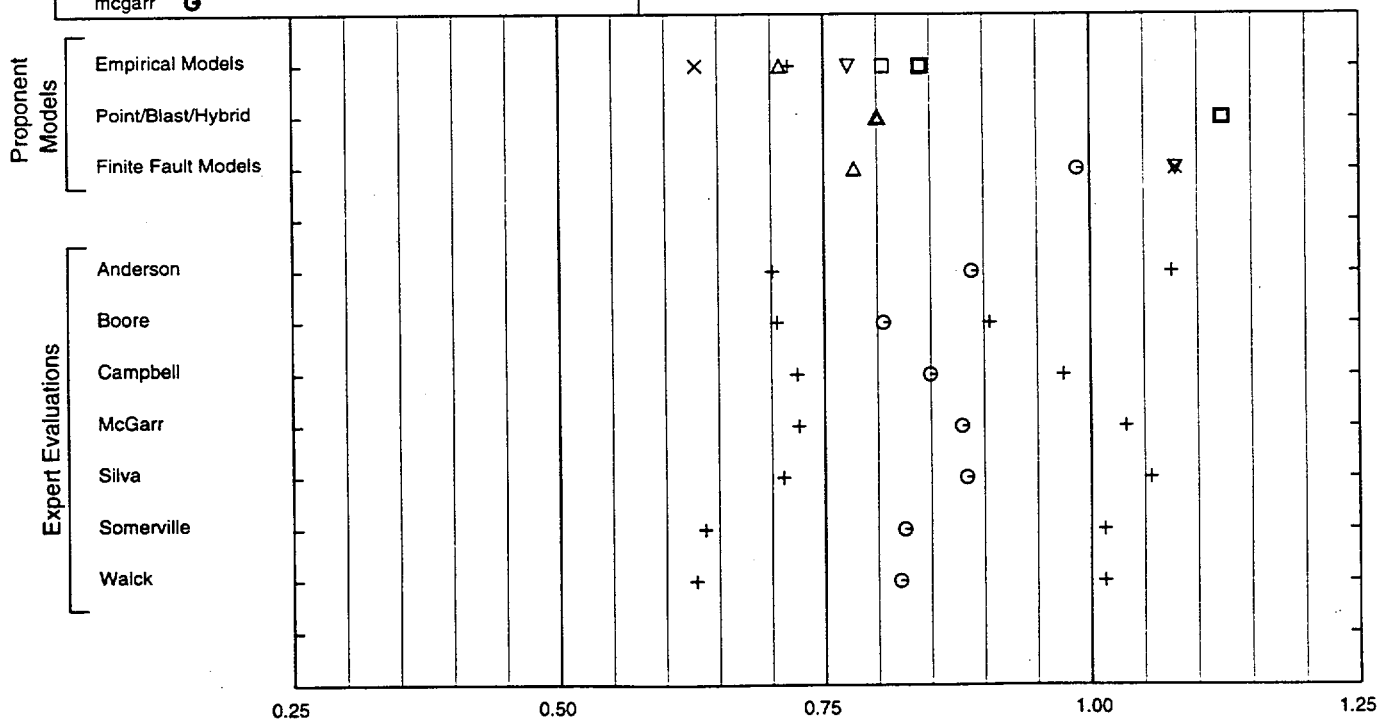
case 33, M= 6.5, shallow, xd= 5 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

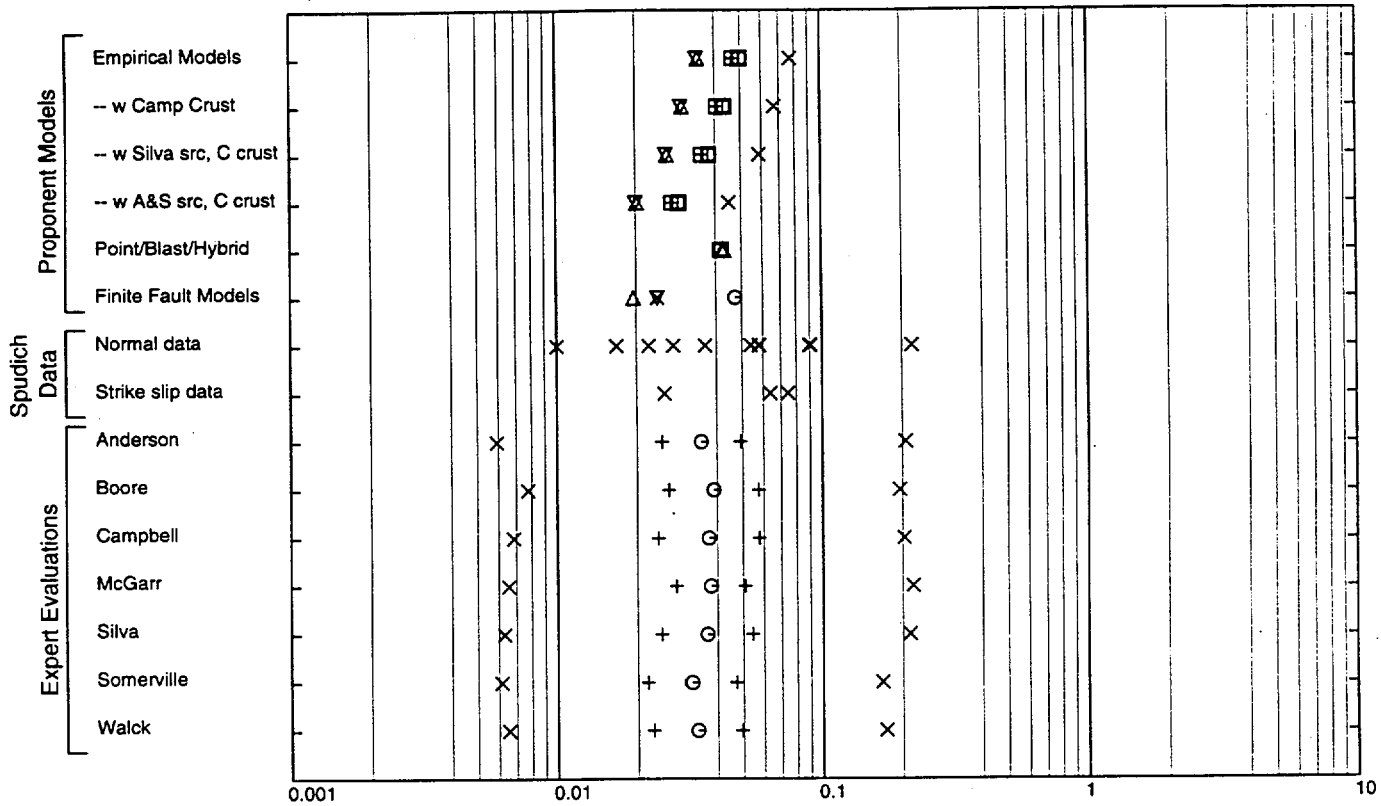
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

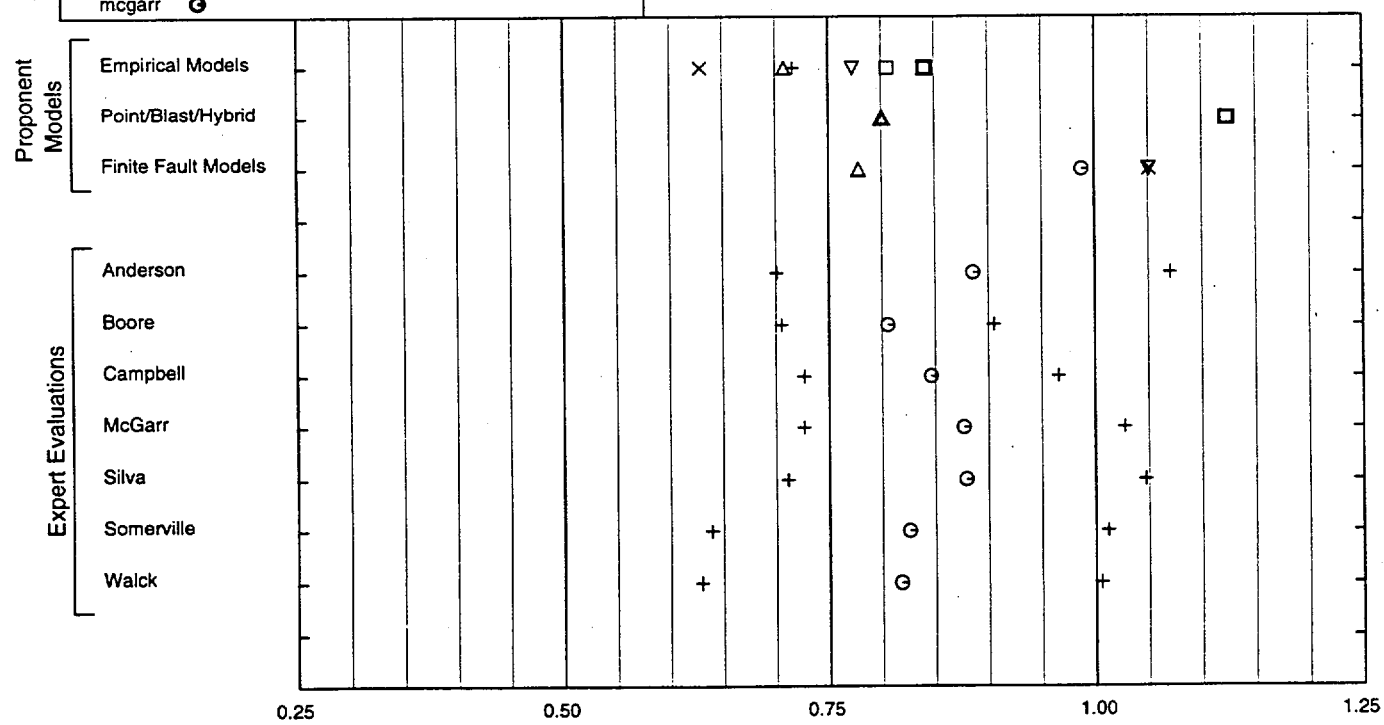
case 34, M= 6.5, shallow, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

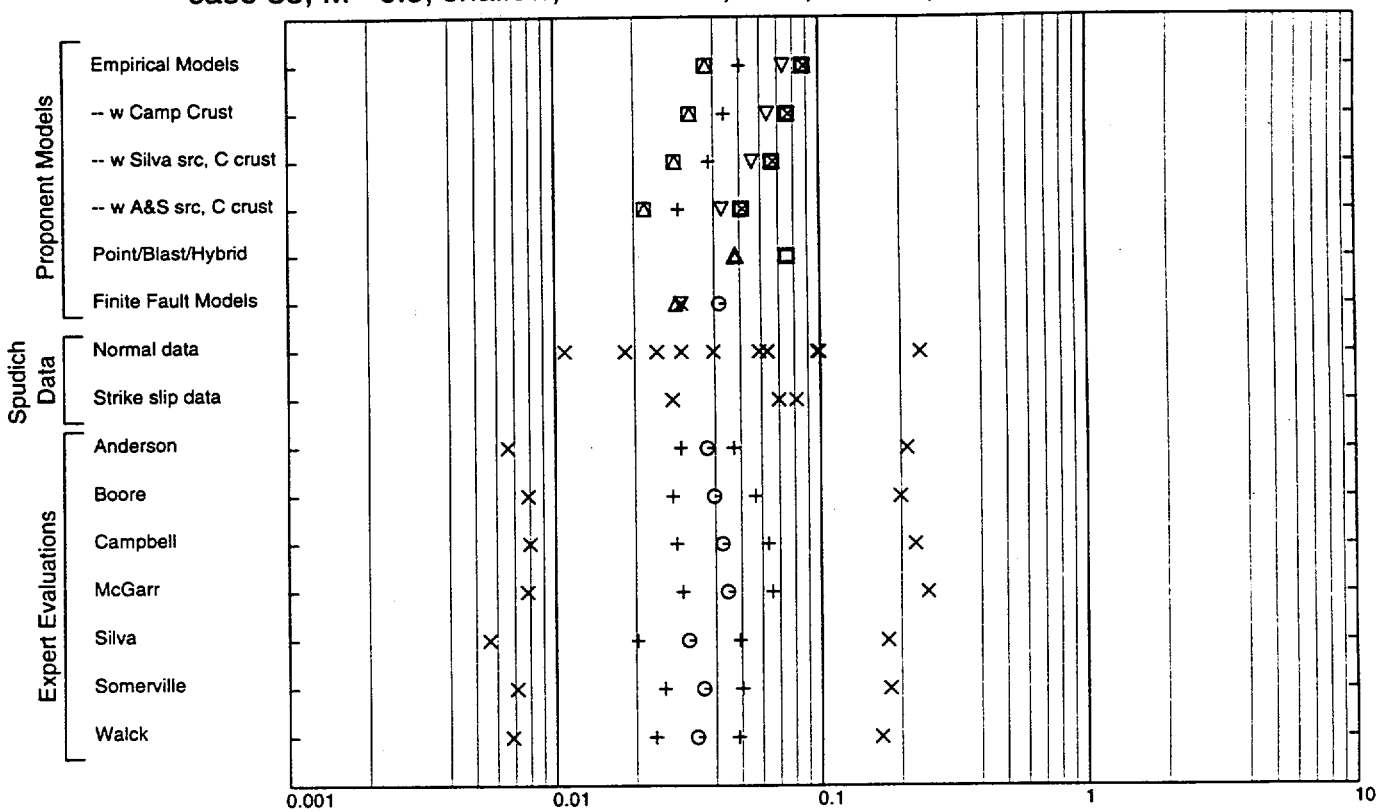
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

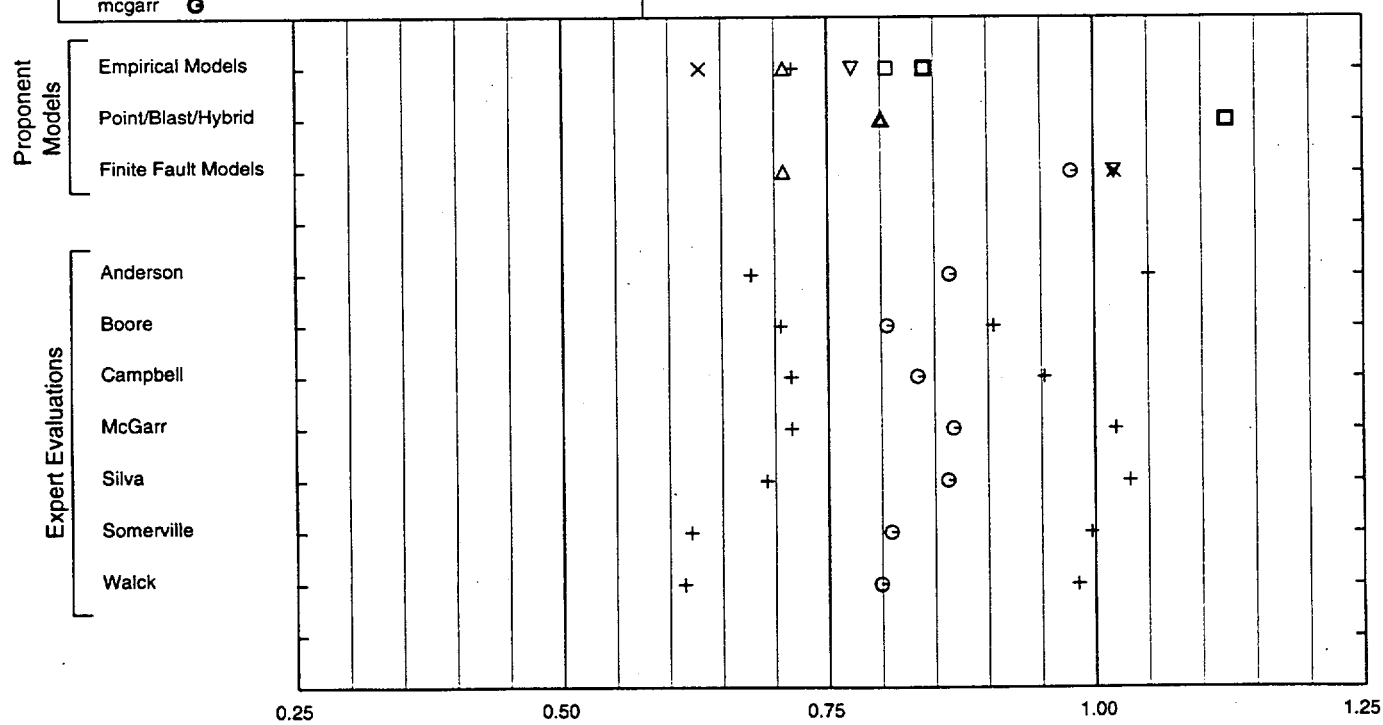
case 35, M= 6.5, shallow, xd= 10 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

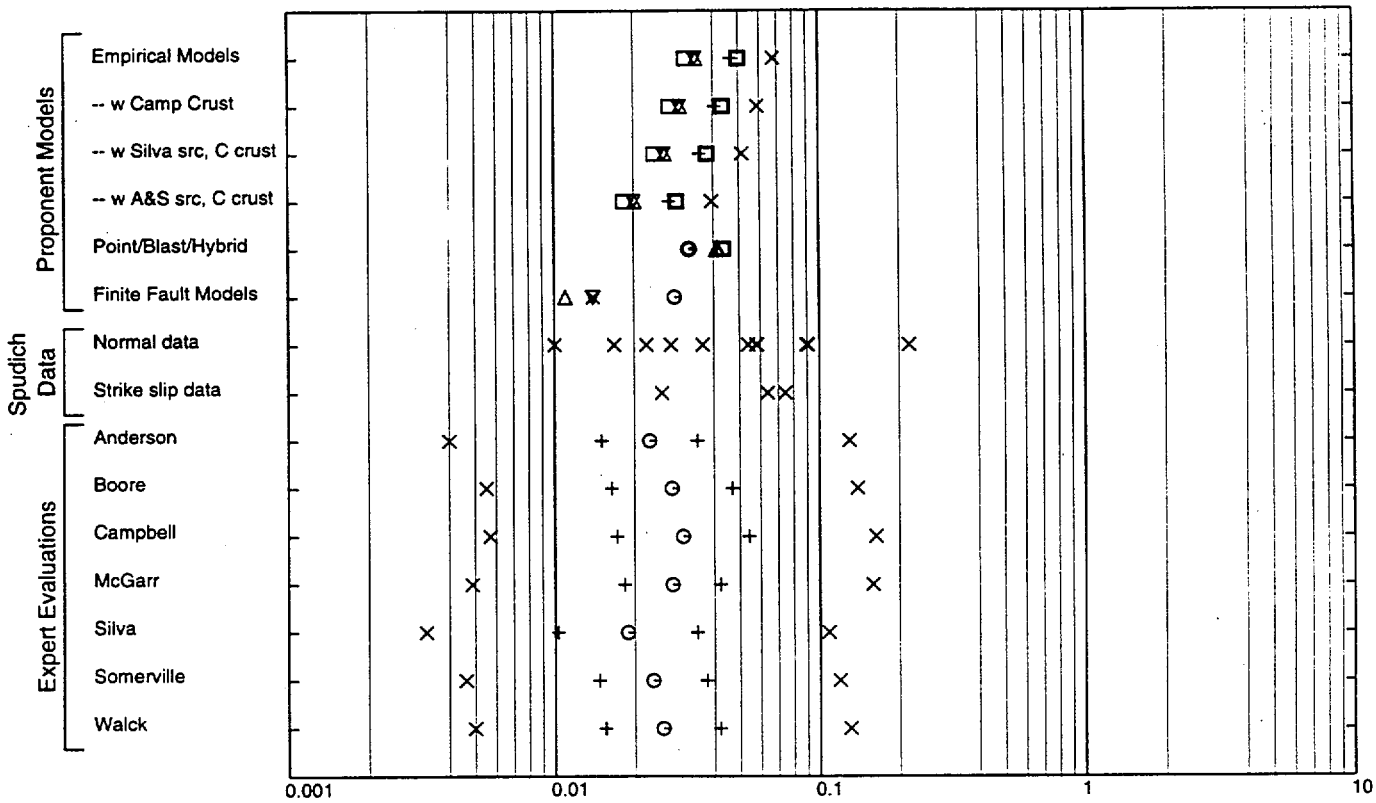
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

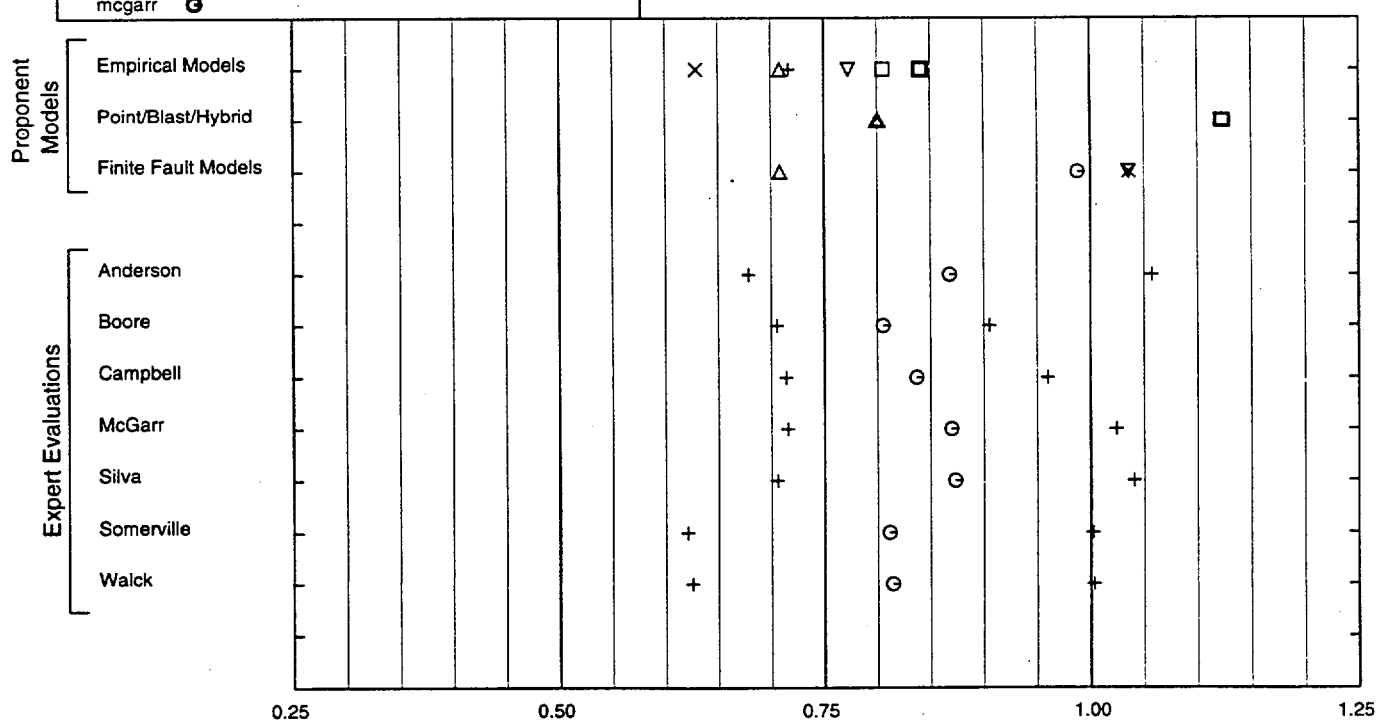
case 36, M= 6.5, shallow, xd=-10 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

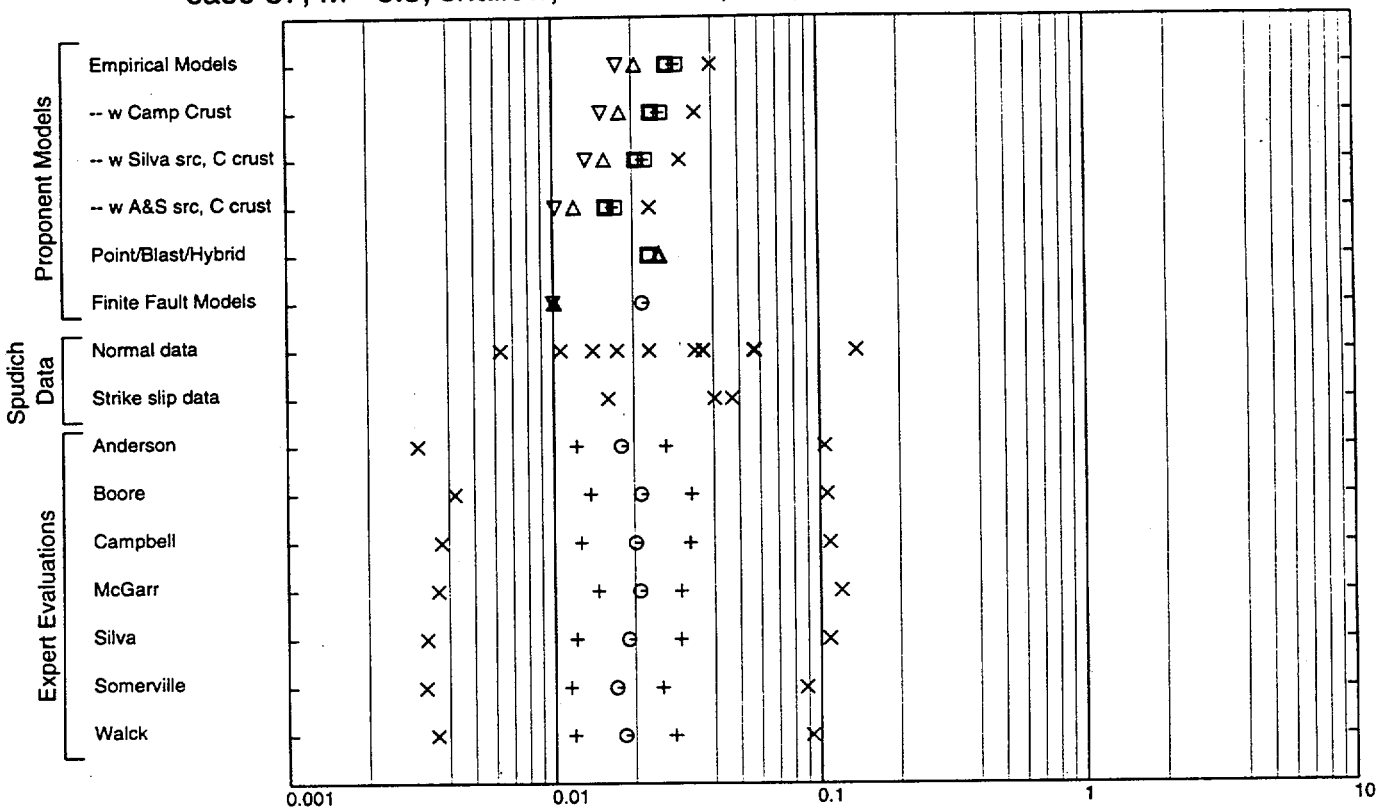
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

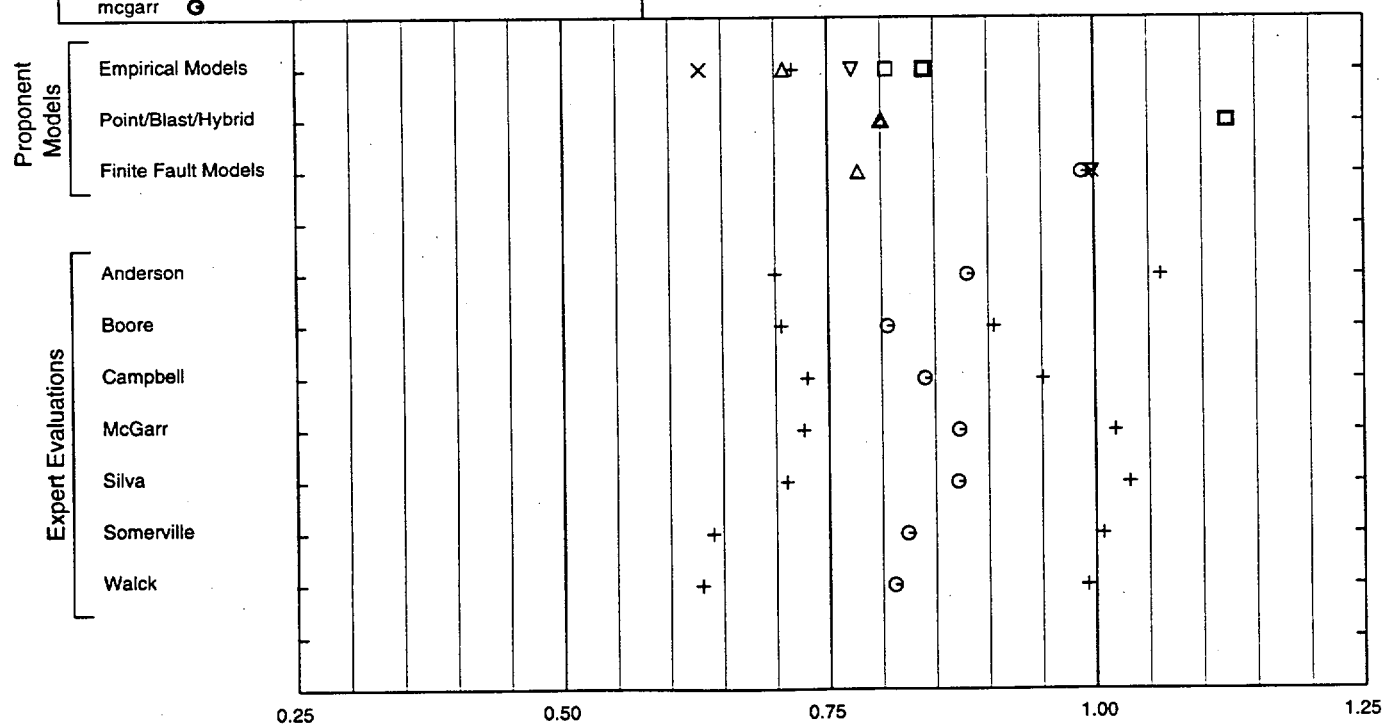
case 37, M= 6.5, shallow, xd= 20 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

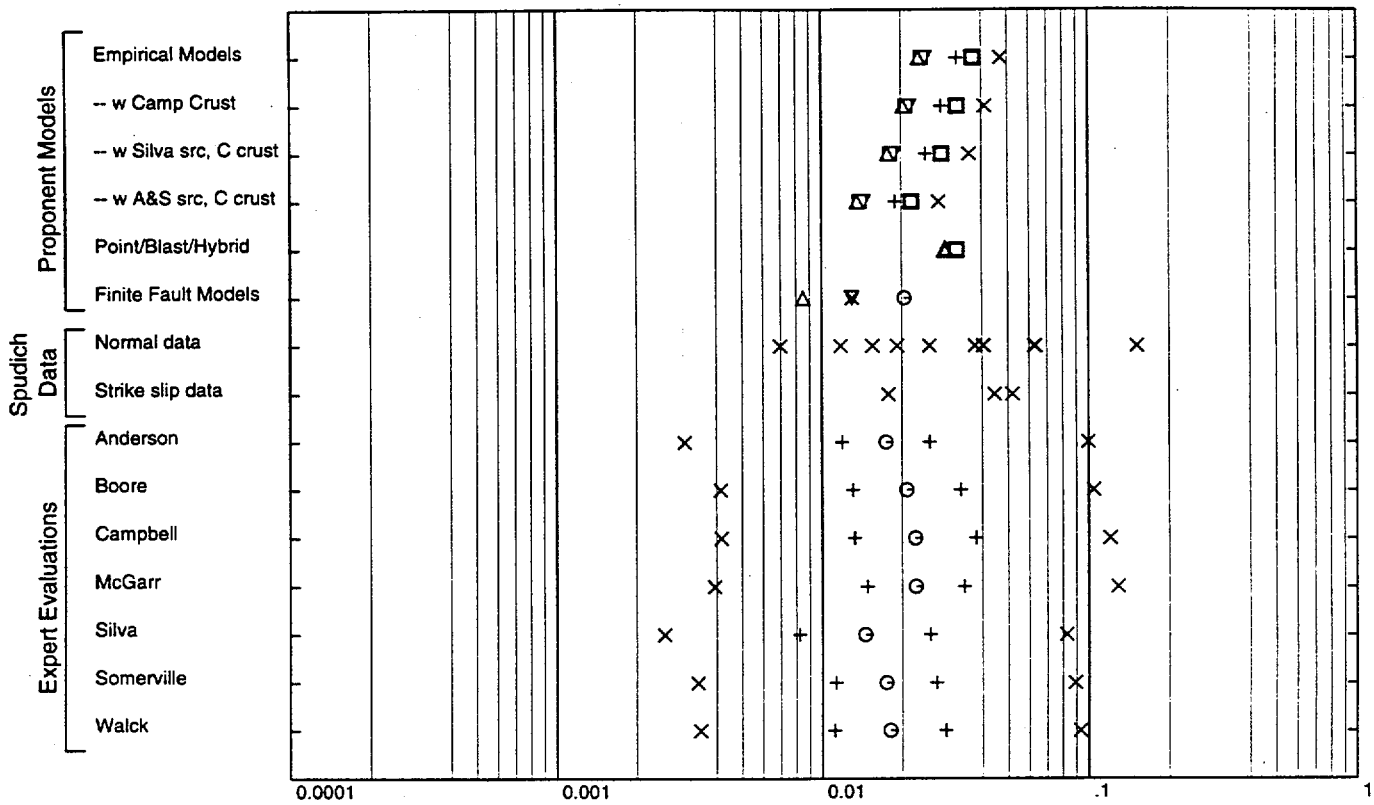
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

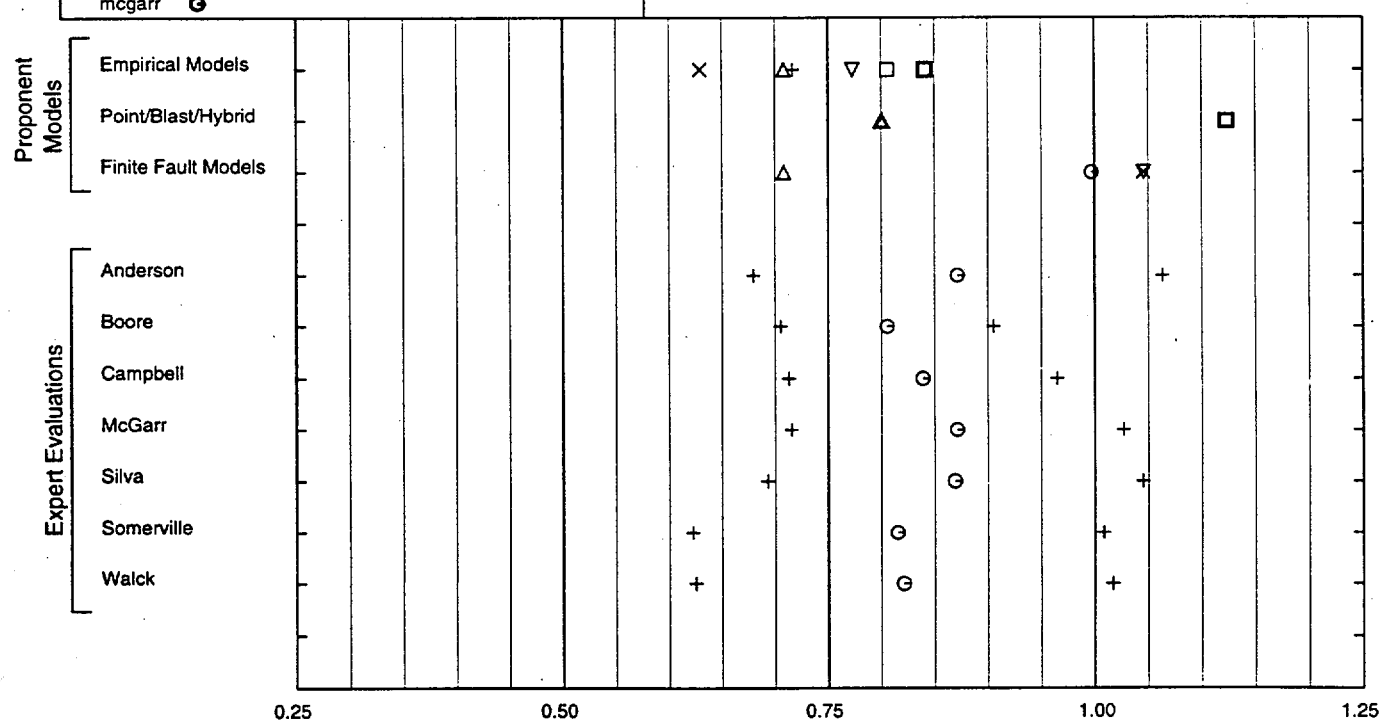
case 38, M= 6.5, shallow, xd= 20 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

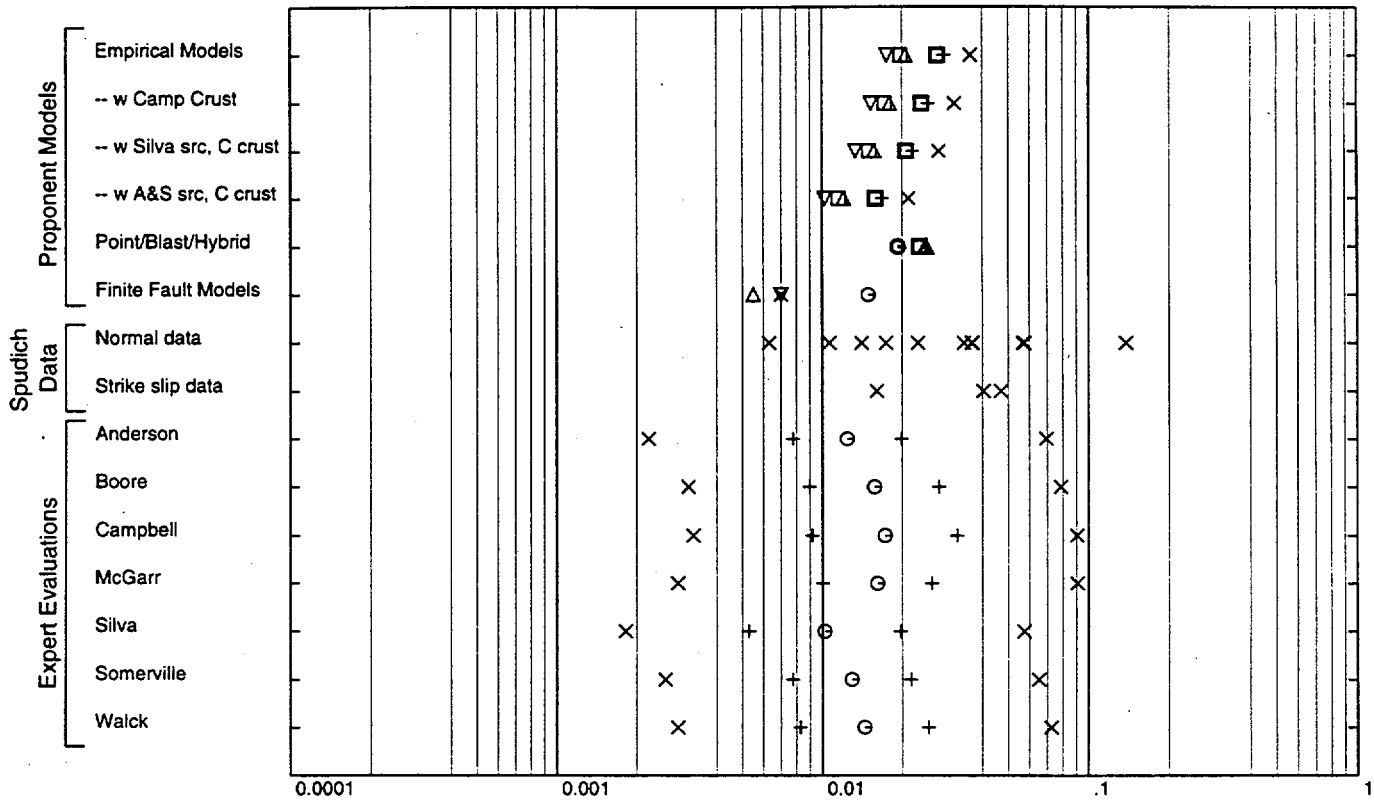
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

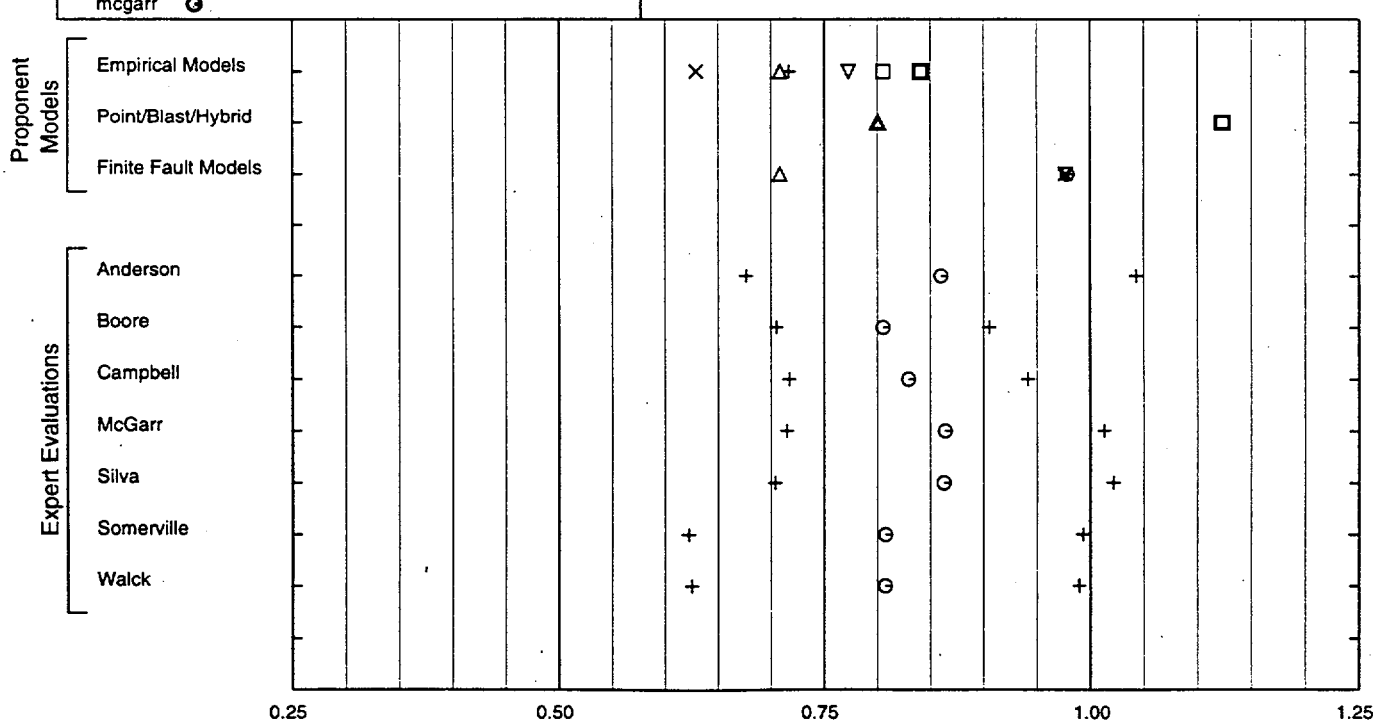
case 39, M= 6.5, shallow, xd=-20 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

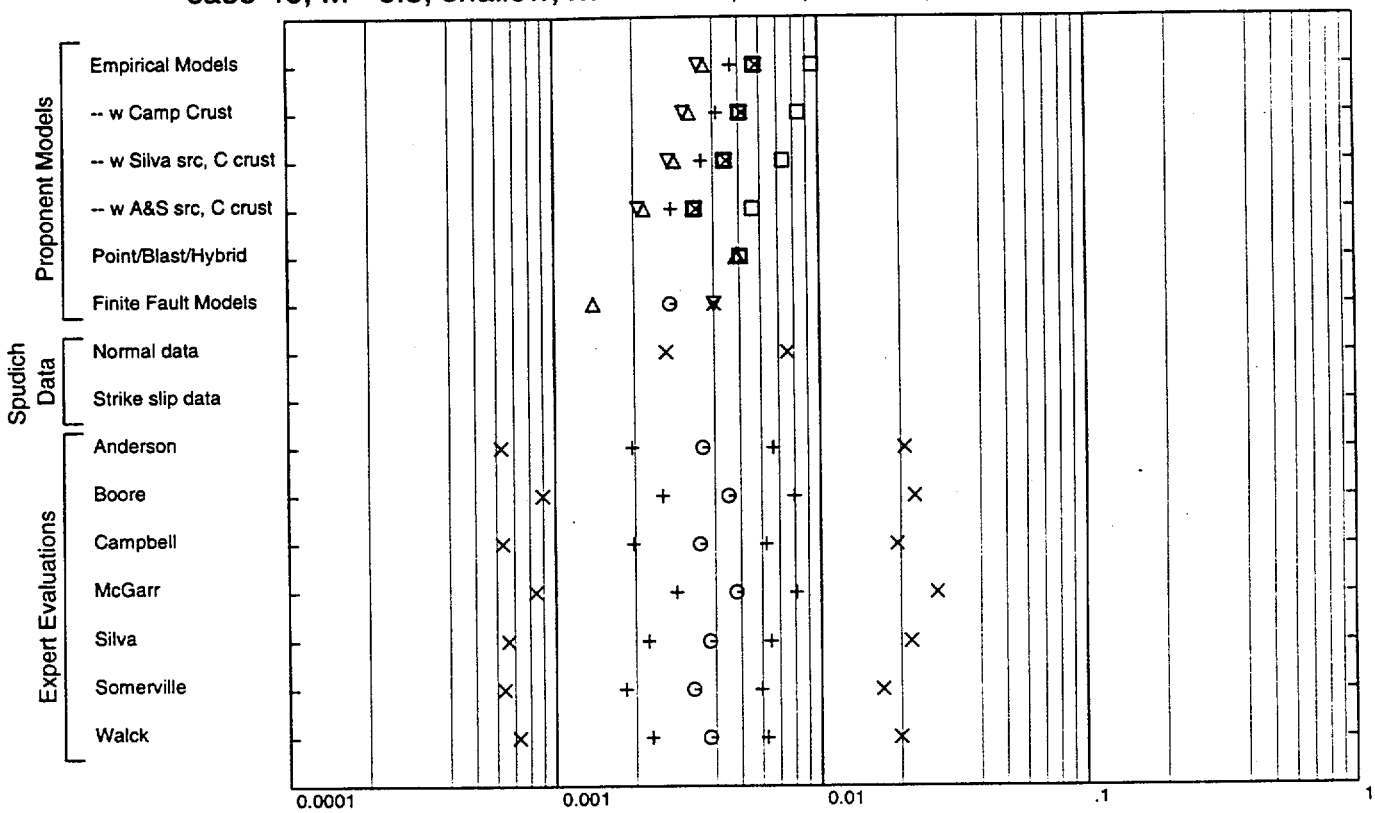
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

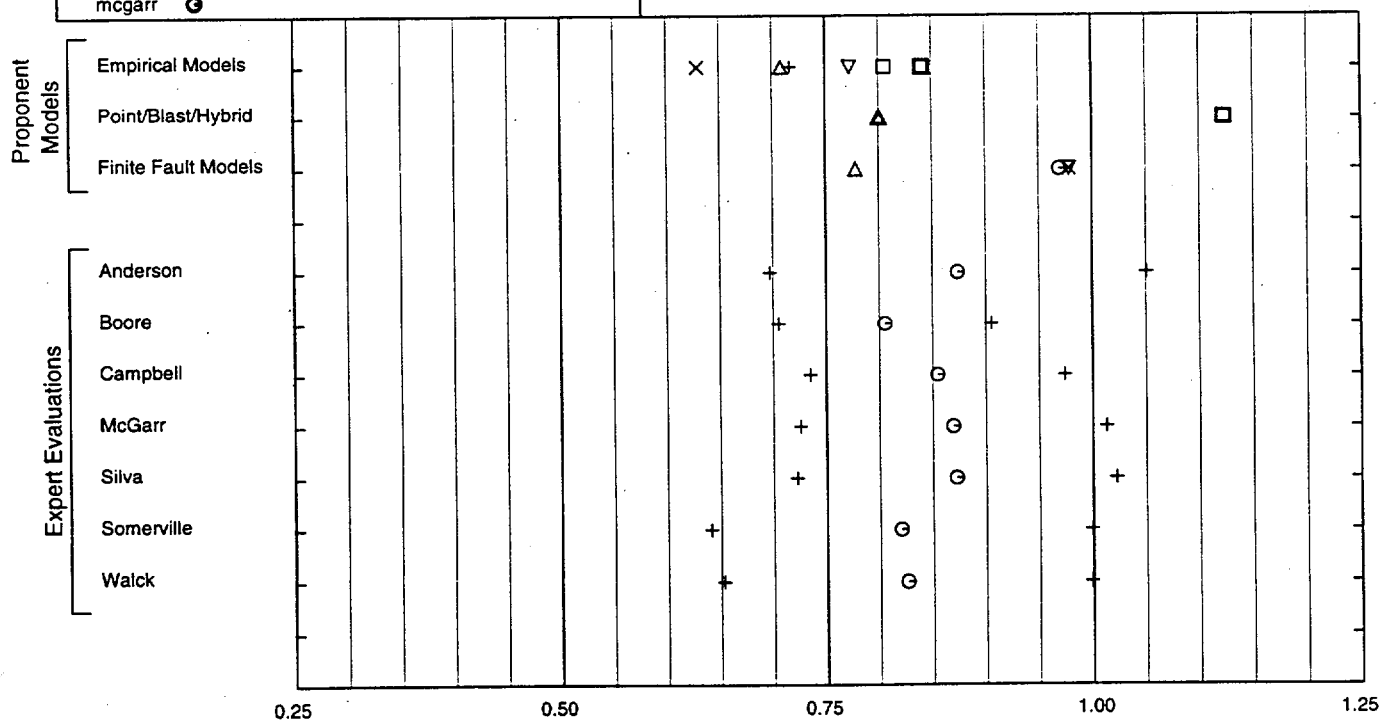
case 40, M= 6.5, shallow, xd=100 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

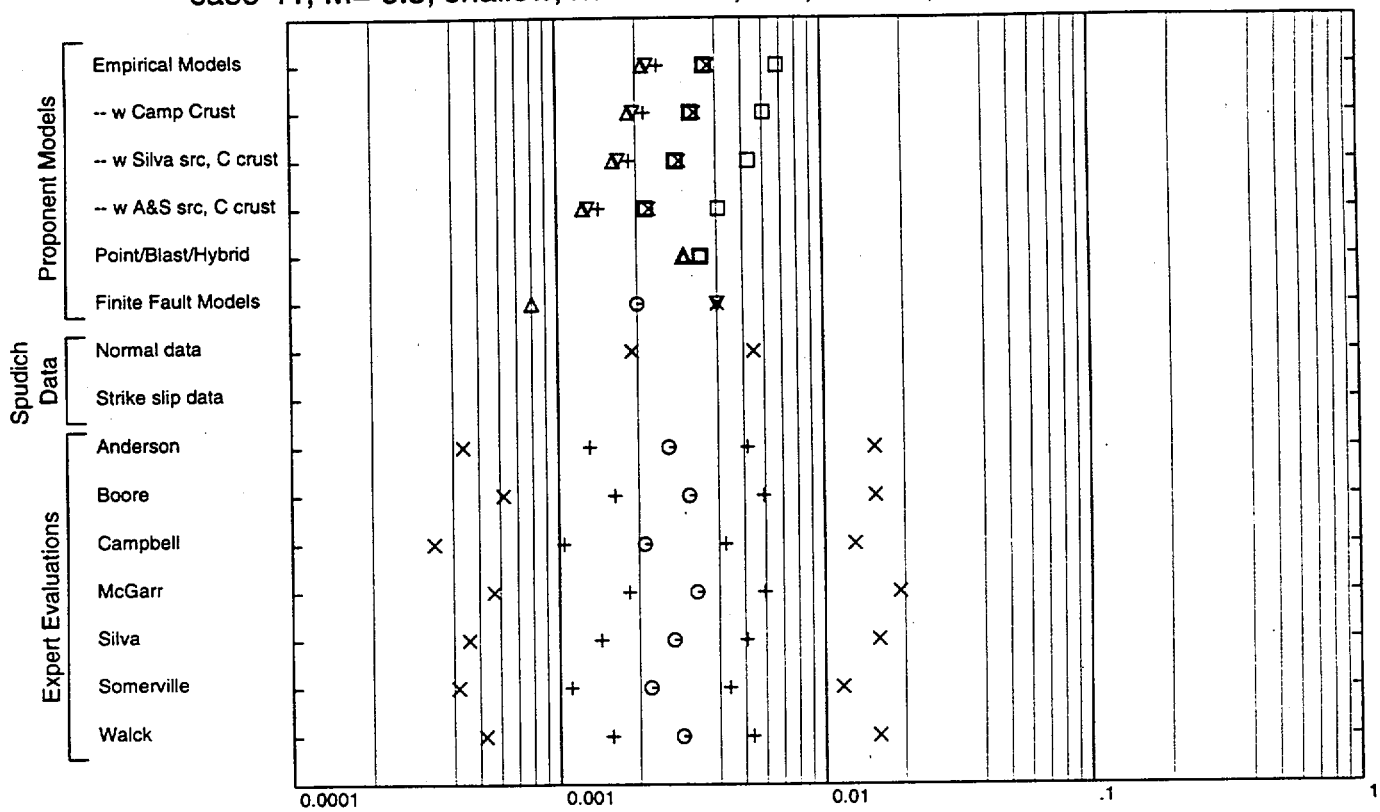
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

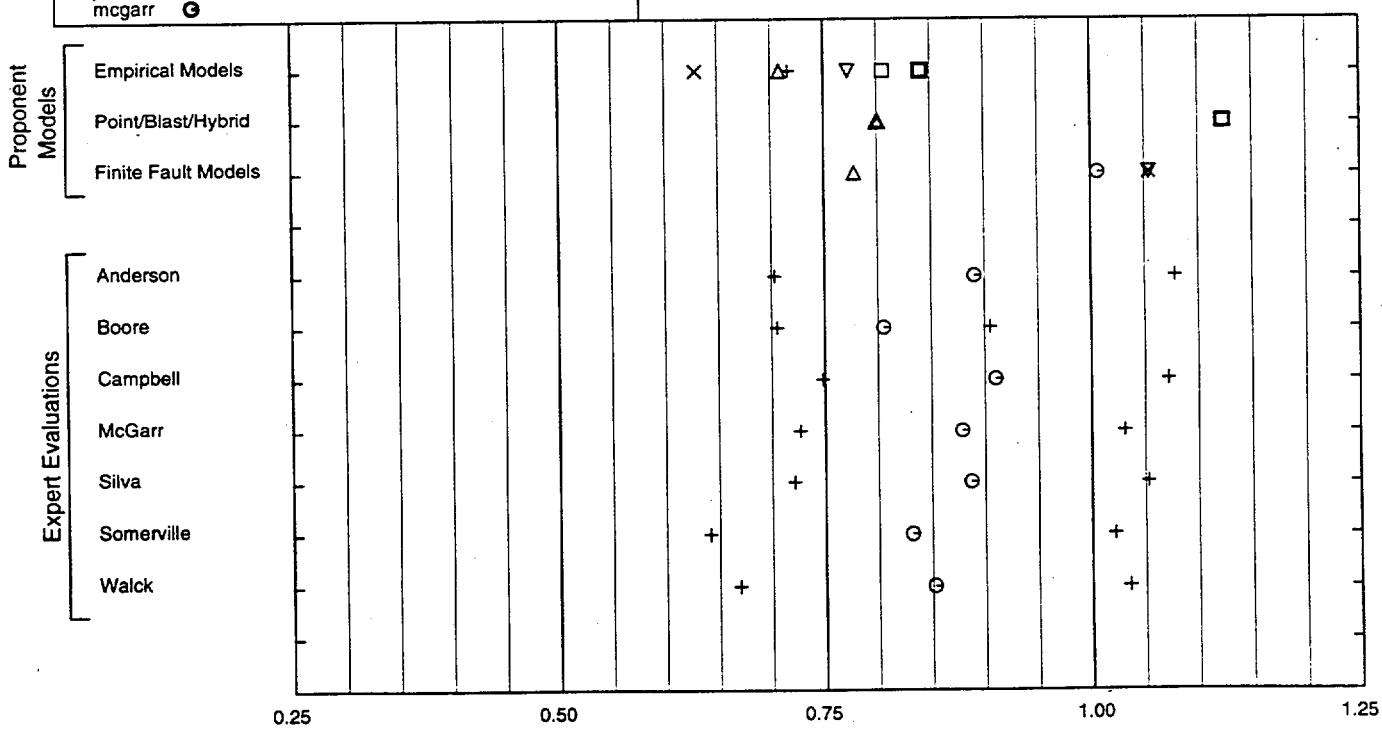
case 41, M= 6.5, shallow, xd=160 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

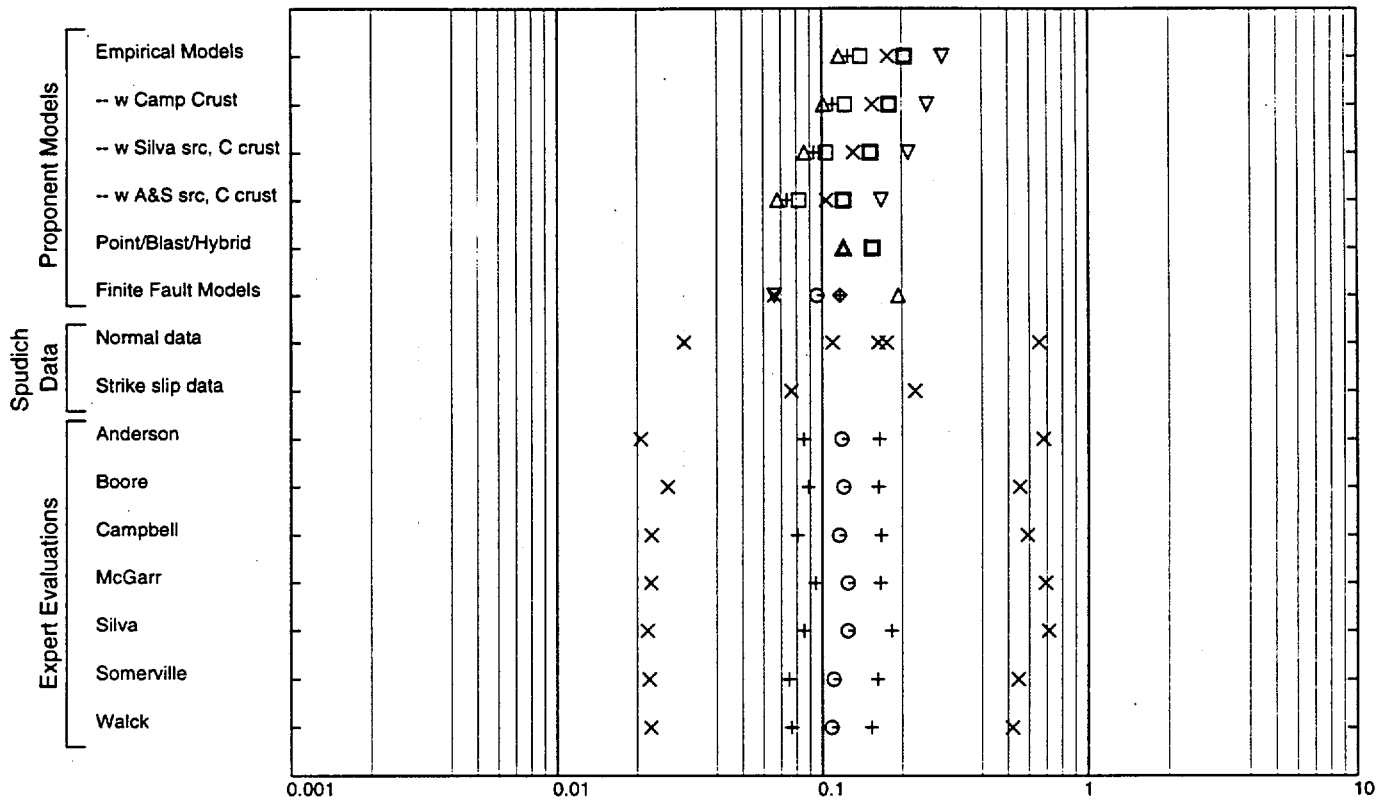
LEGEND

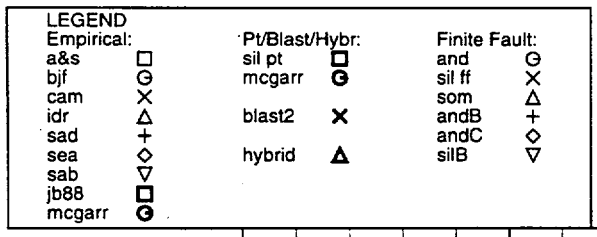
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



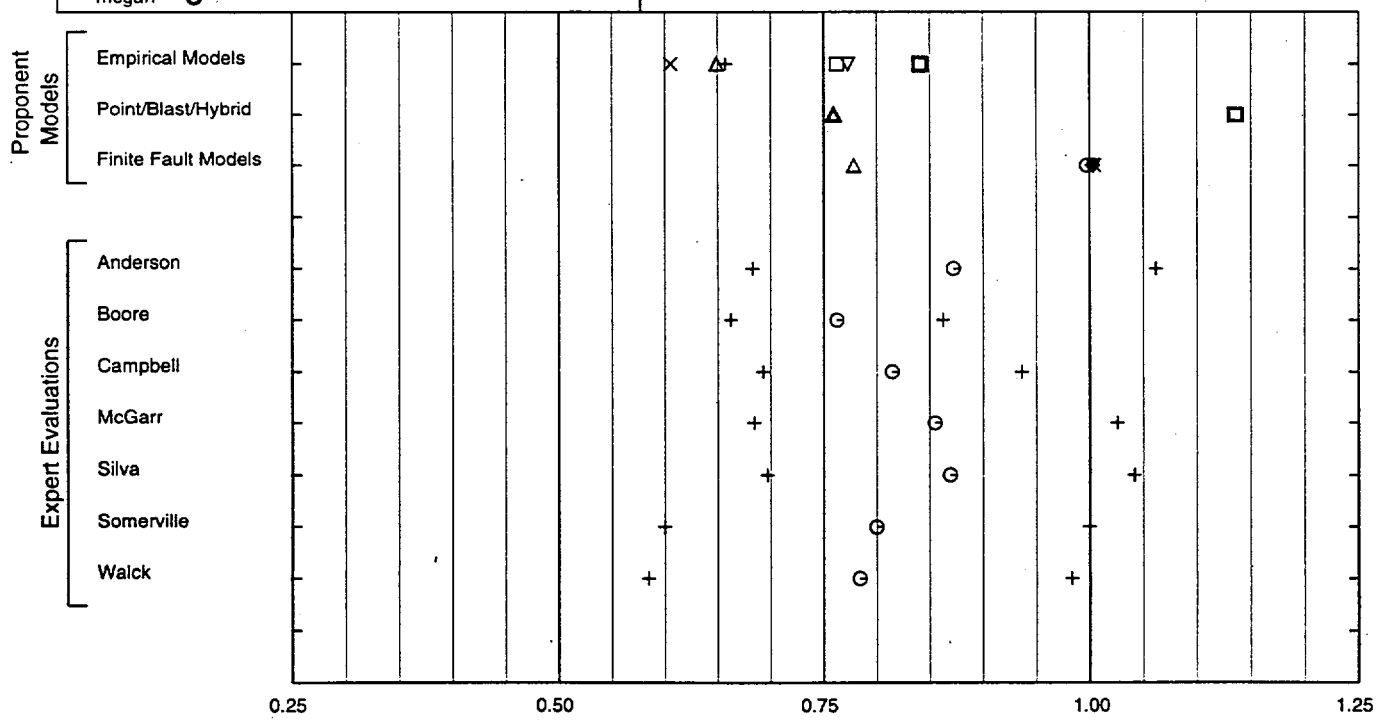
Aleatory Sigma (LN units) w/ Comp Var.

case 42, M= 7.0, shallow, xd= 1 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



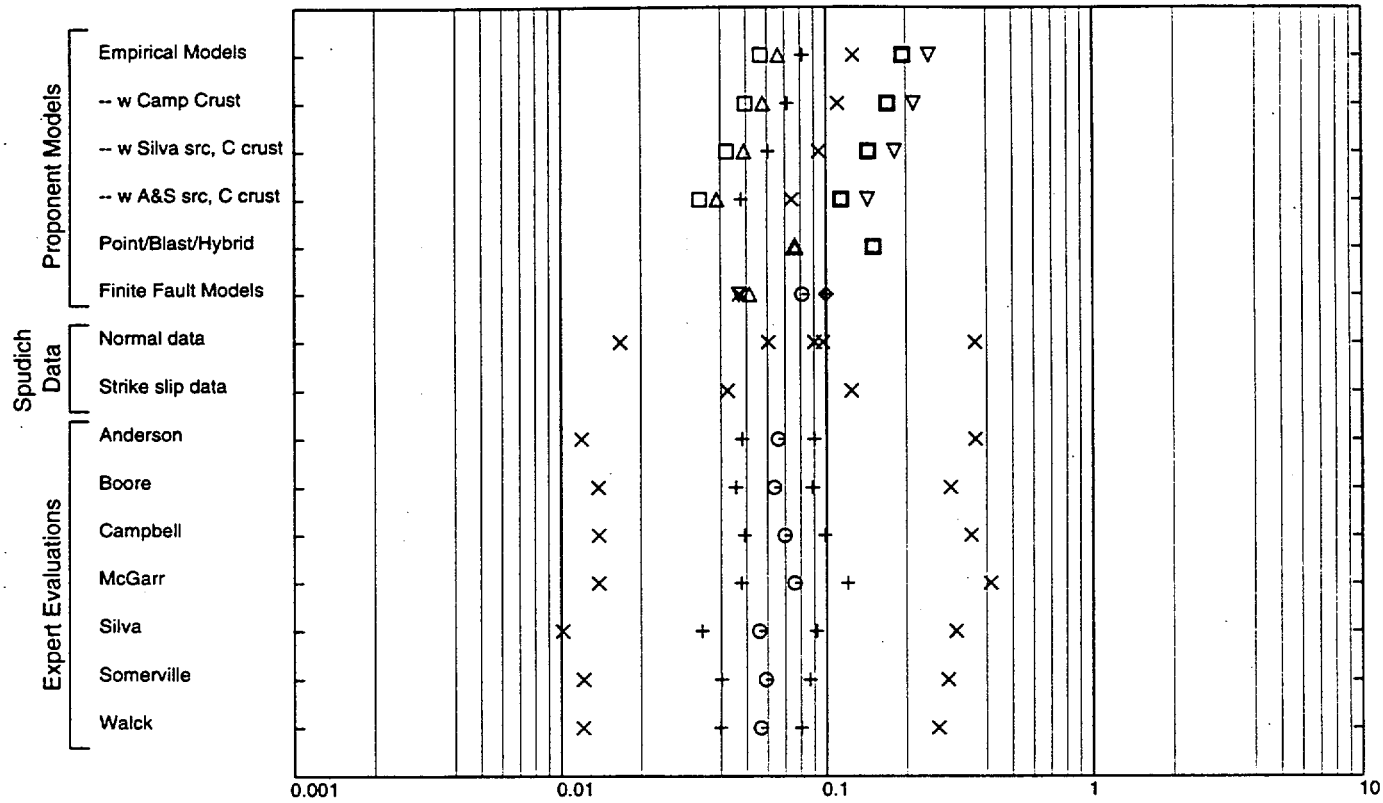


Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

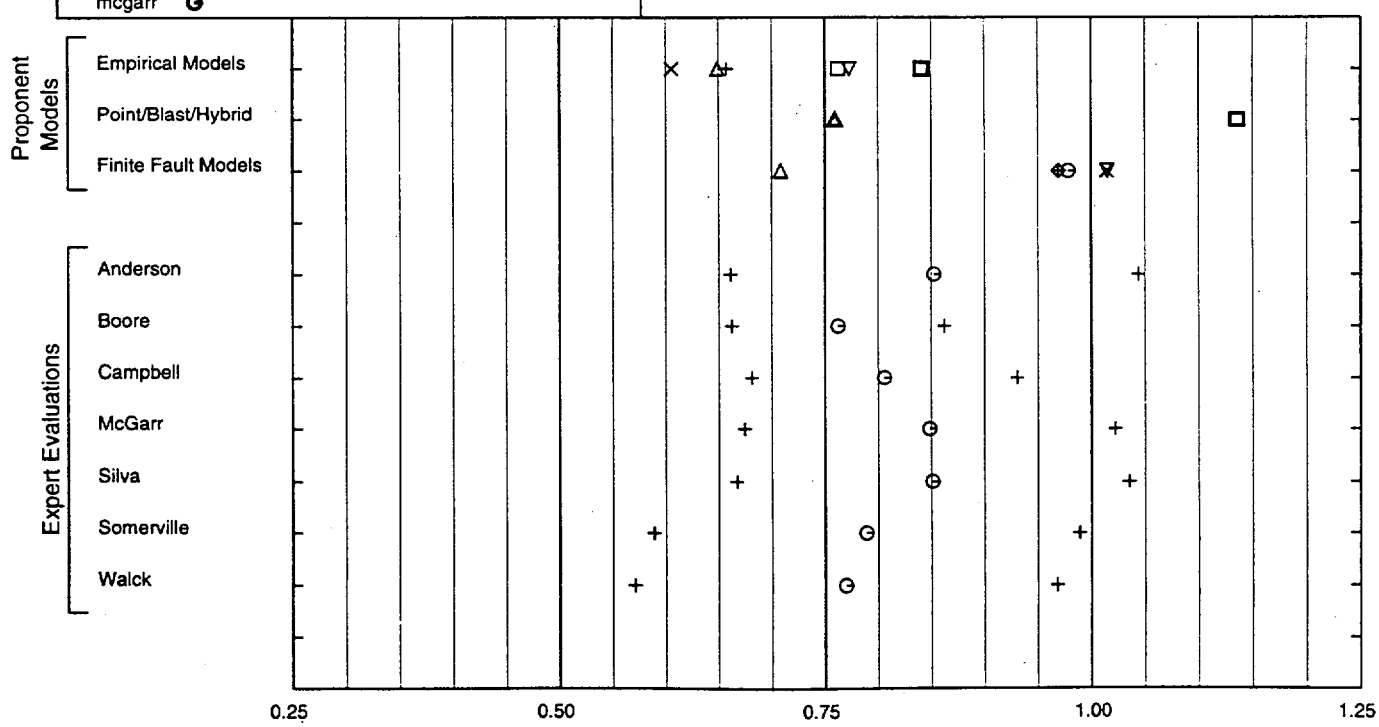
case 43, M= 7.0, shallow, xd= 10 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

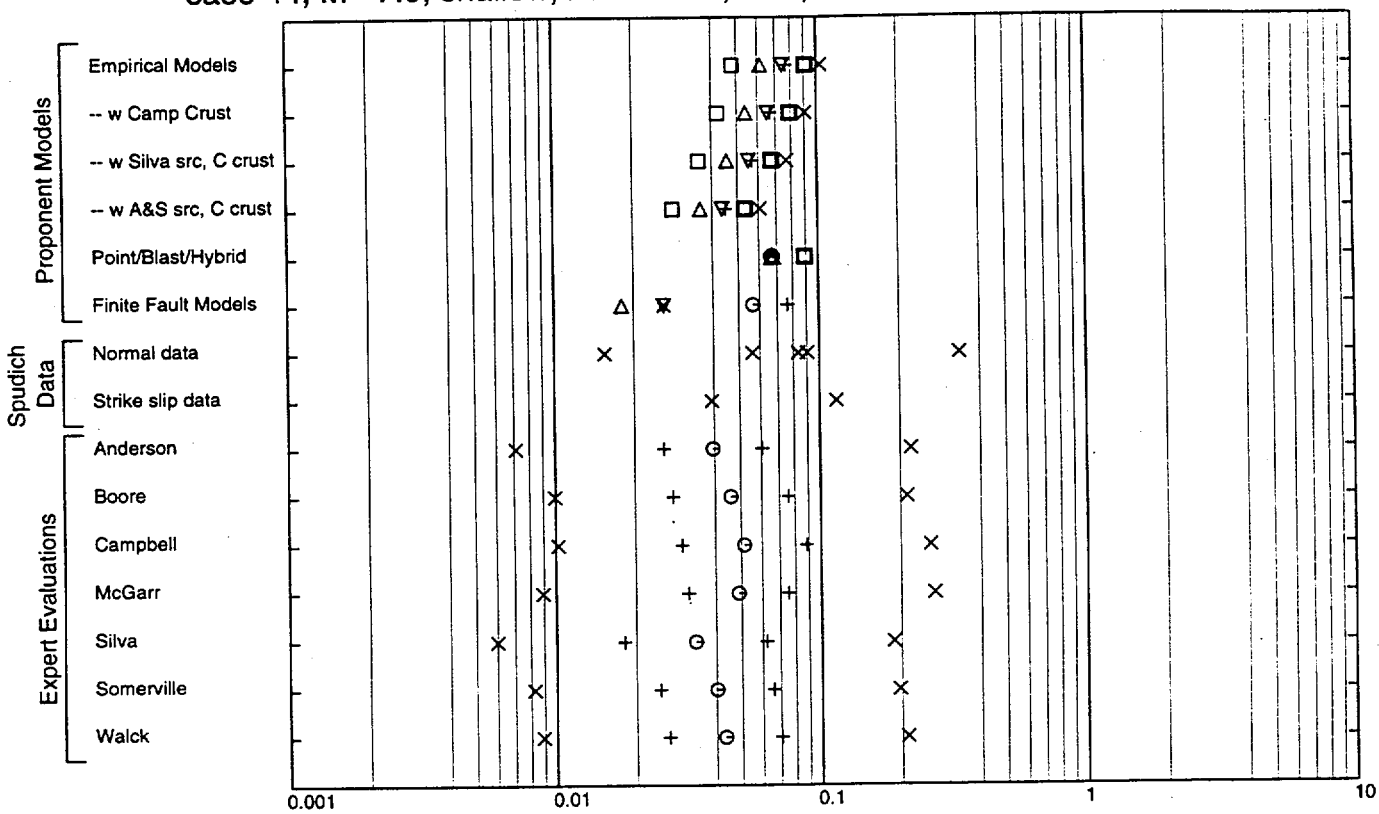
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

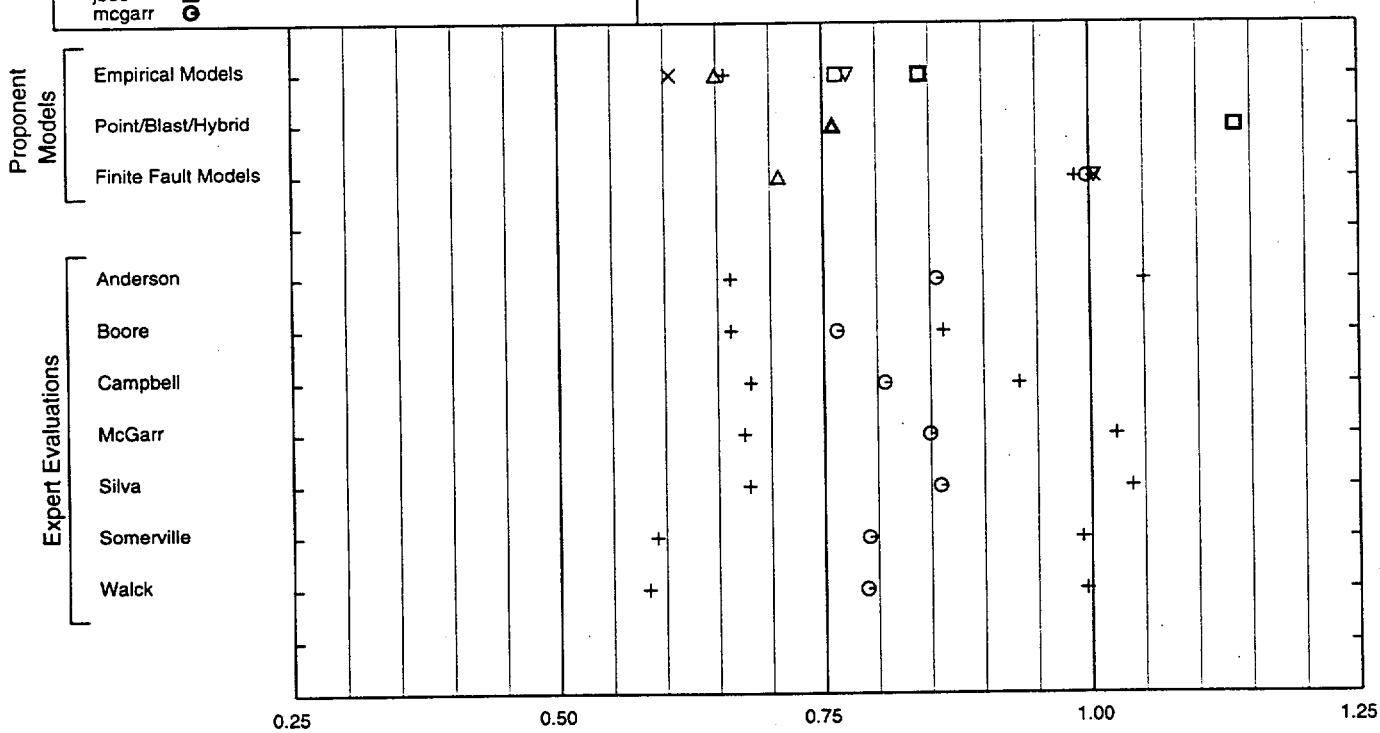
case 44, M= 7.0, shallow, xd=-10 km, FW, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

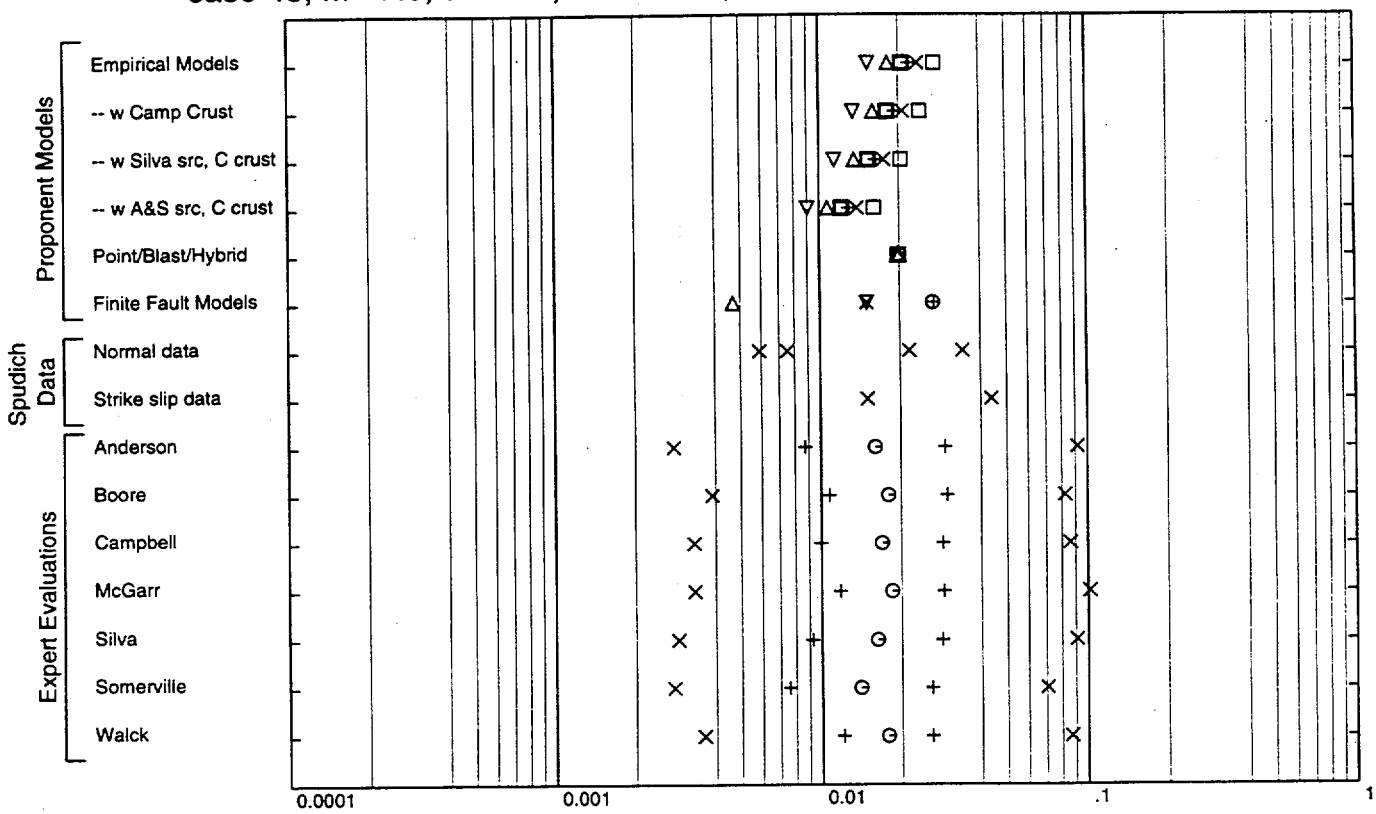
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



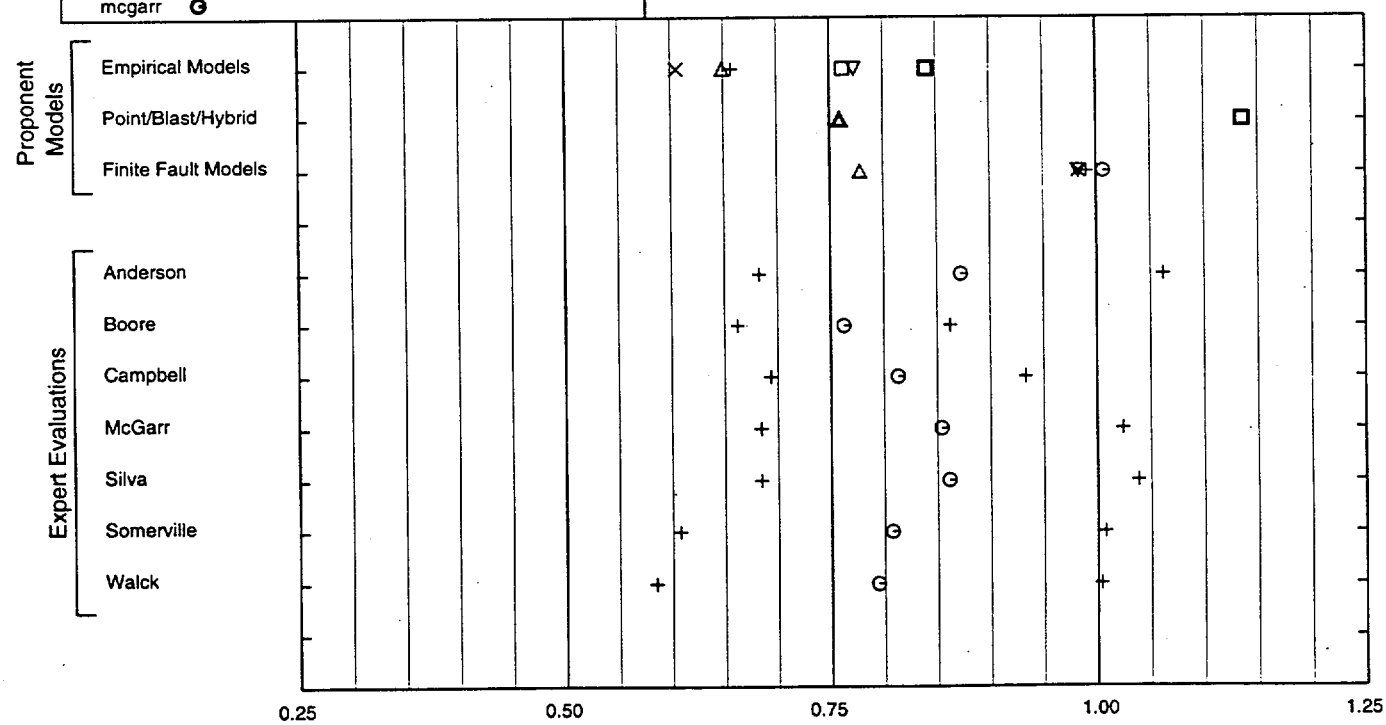
Aleatory Sigma (LN units) w/ Comp Var.

case 45, M= 7.0, shallow, xd= 50 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1

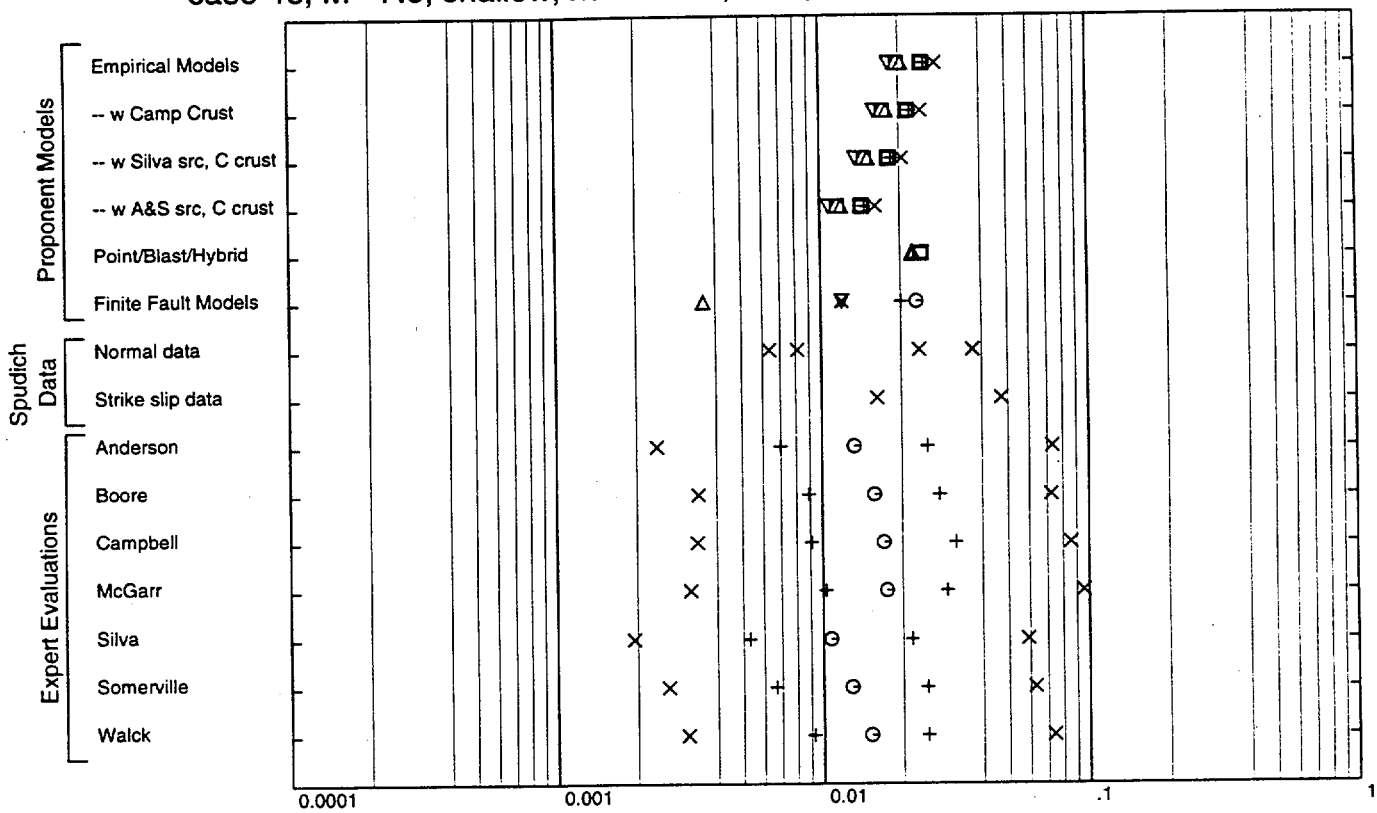


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



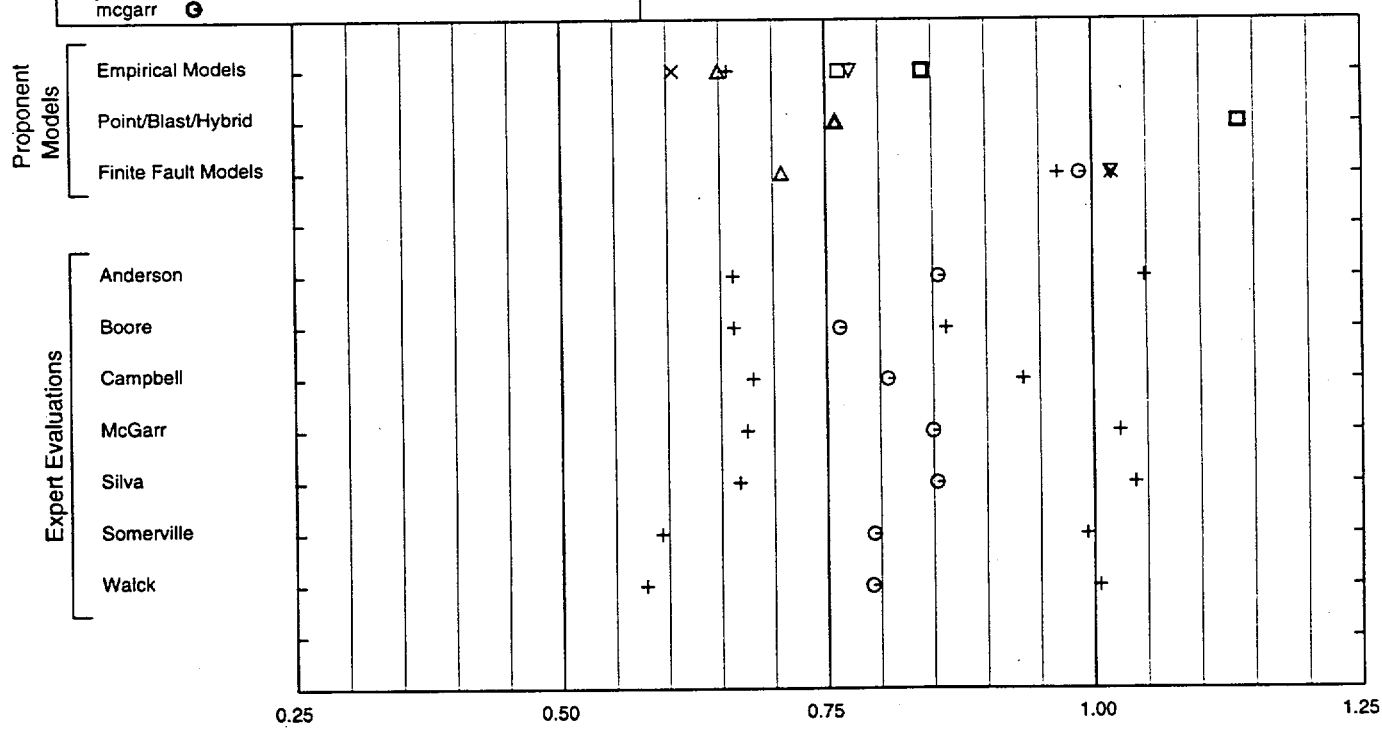
case 46, M= 7.0, shallow, xd= 50 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



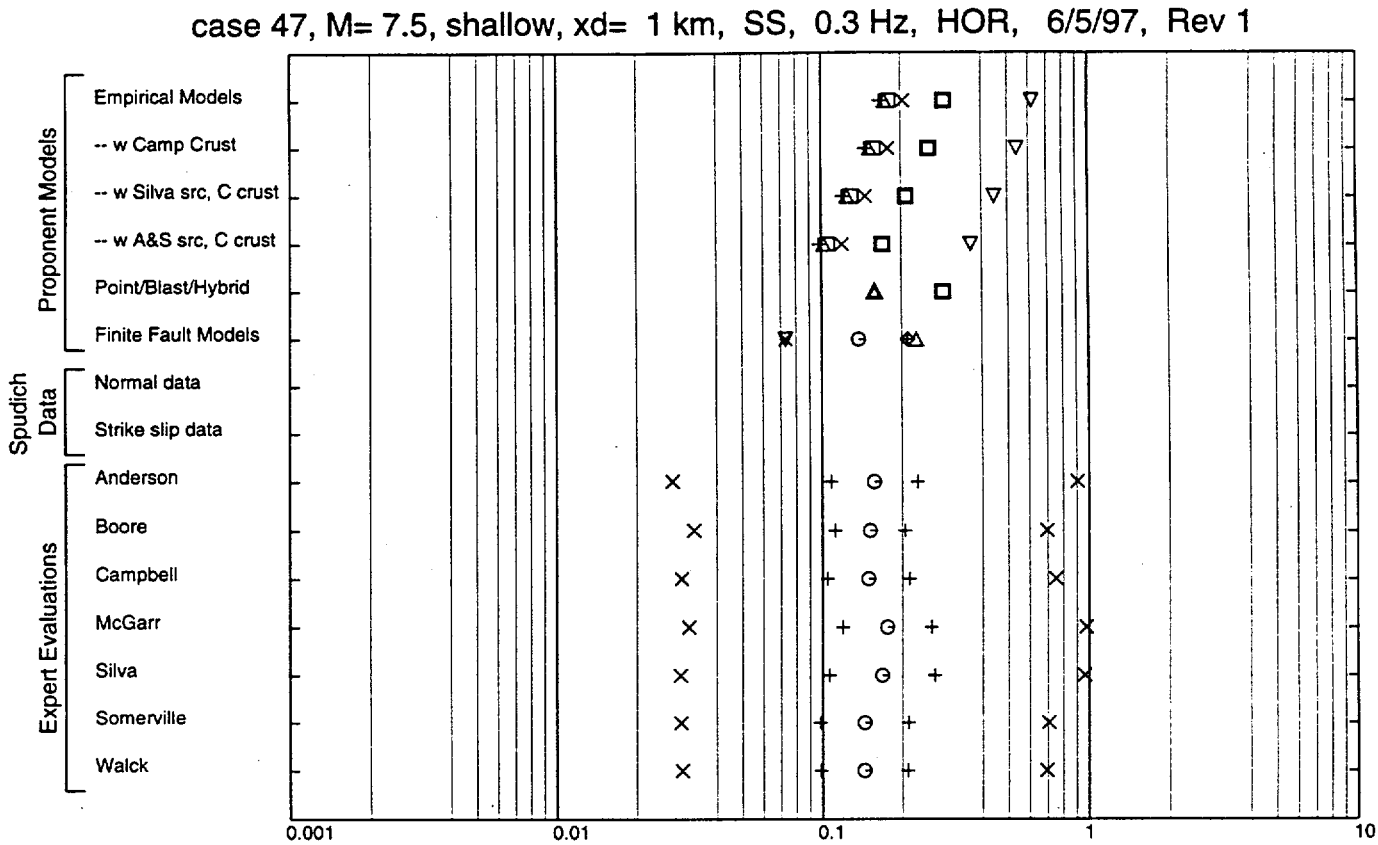
Spectral Acceleration (g)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

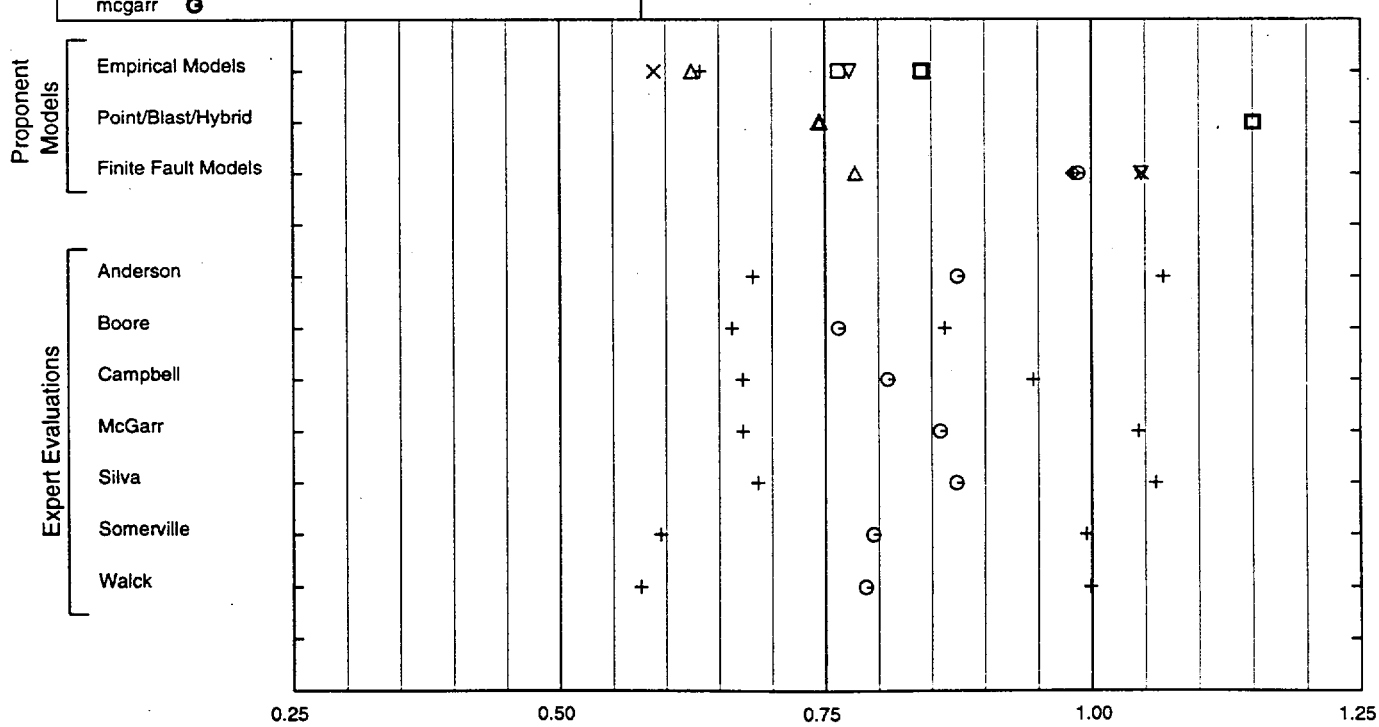


Aleatory Sigma (LN units) w/ Comp Var.

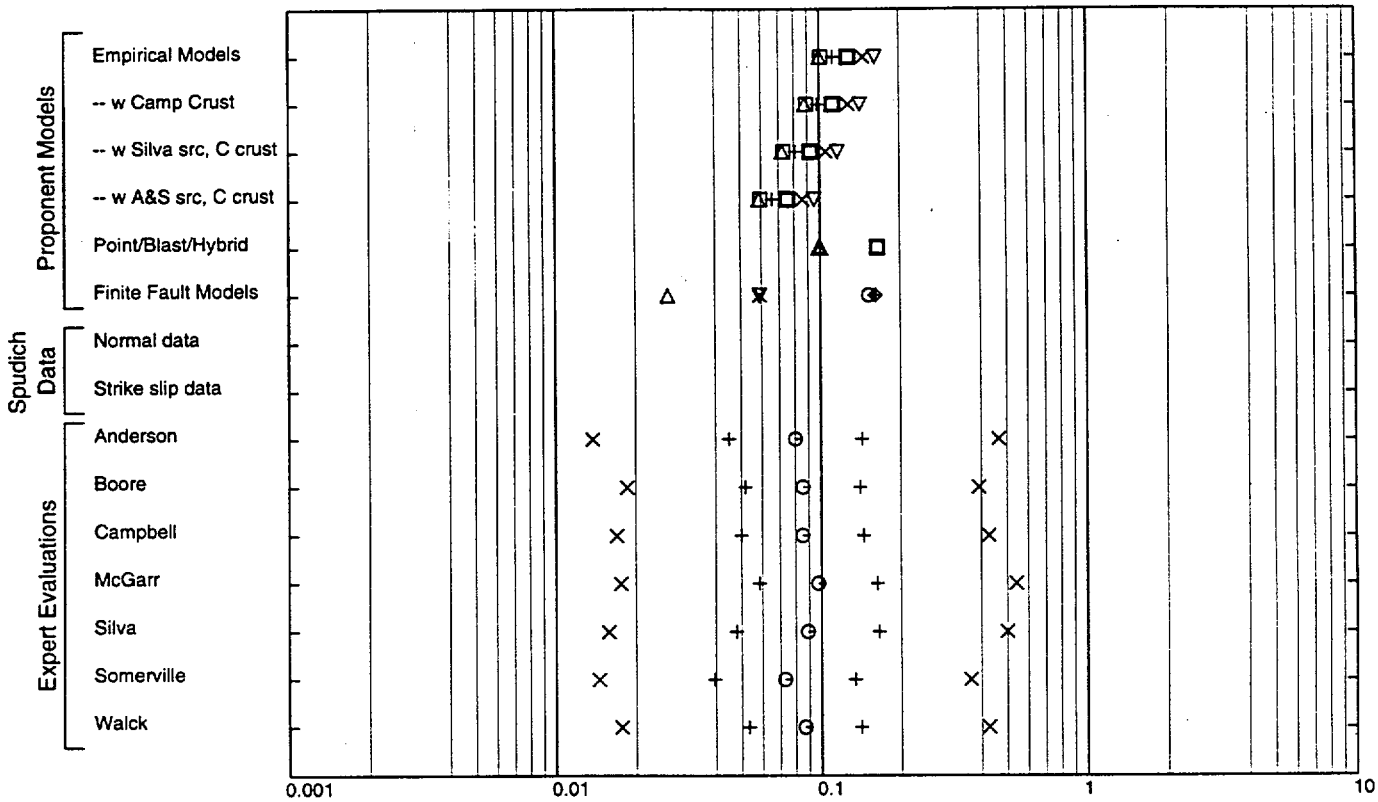


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



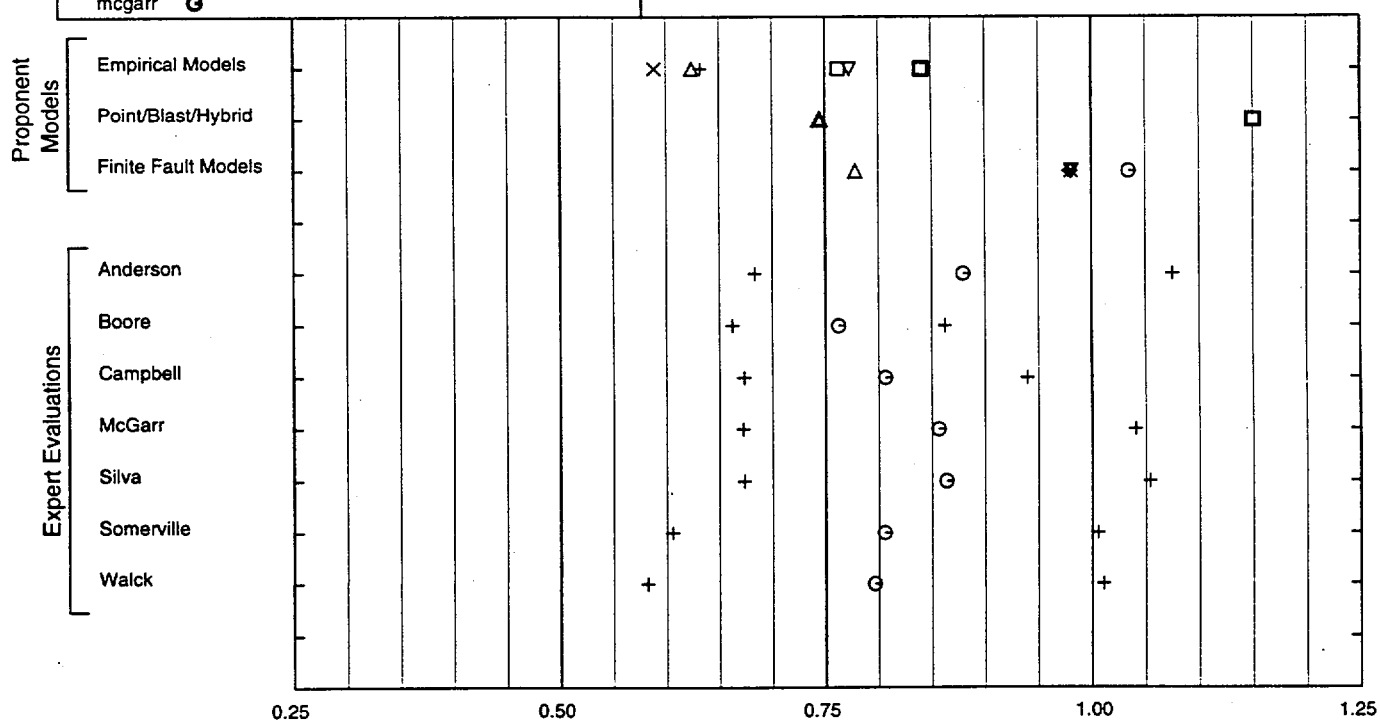
case 48, M= 7.5, shallow, xd= 10 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

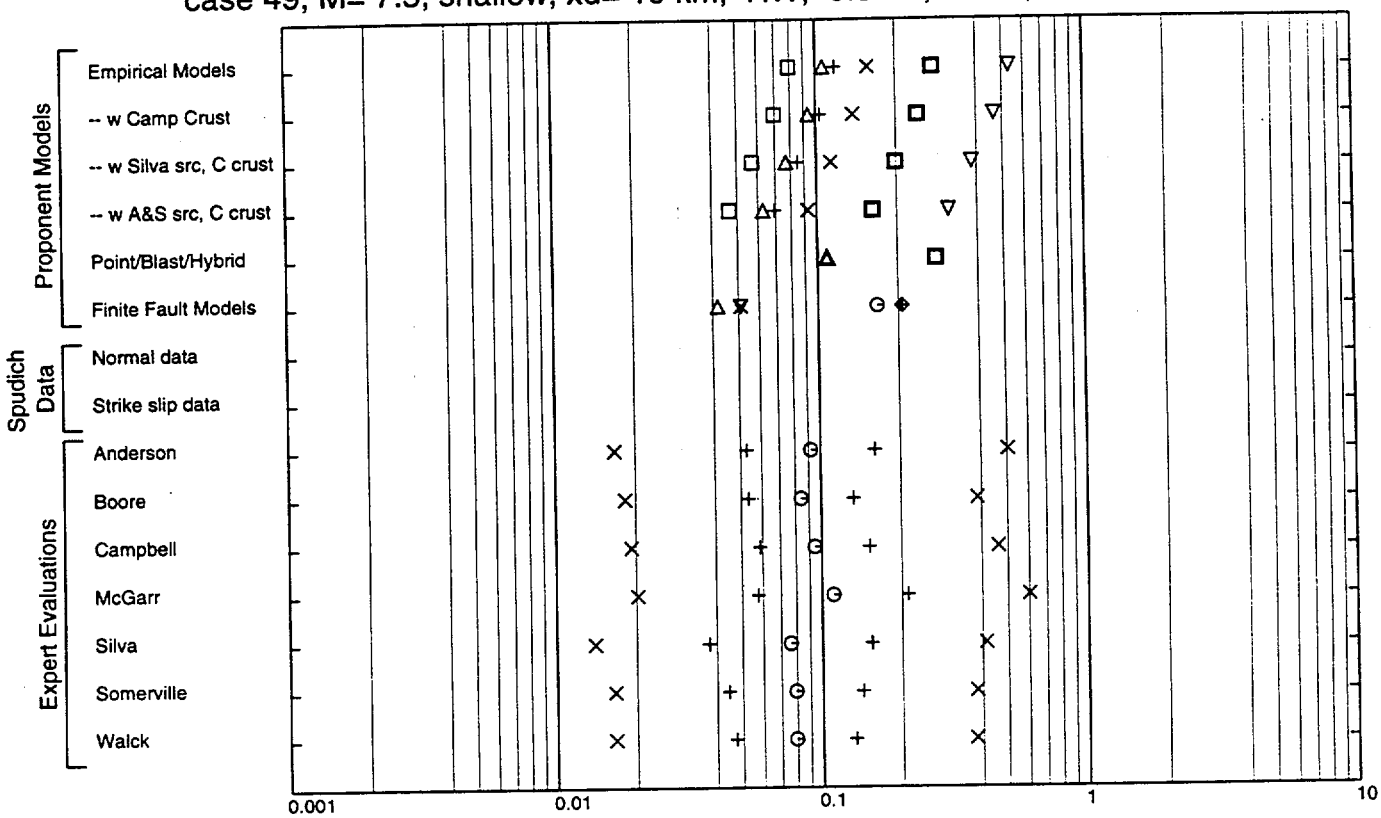
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

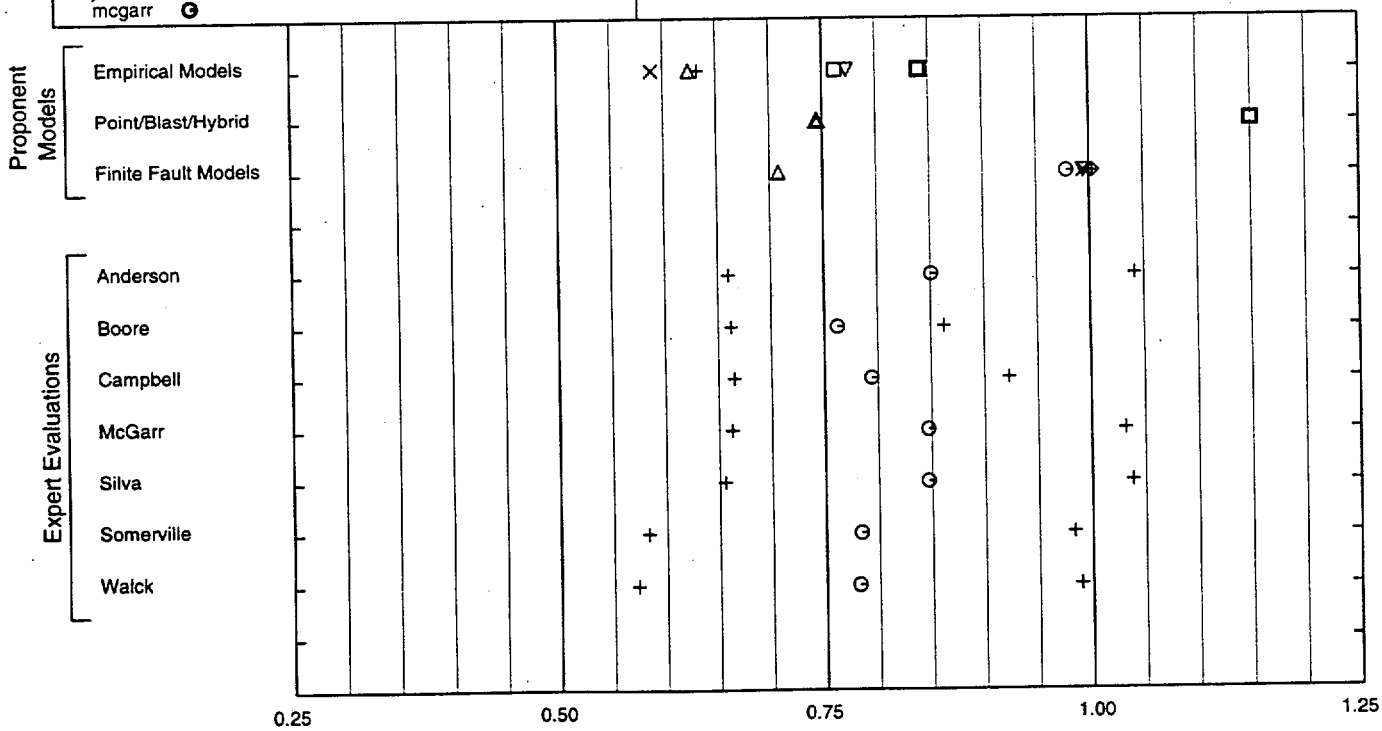
case 49, M= 7.5, shallow, xd= 10 km, HW, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

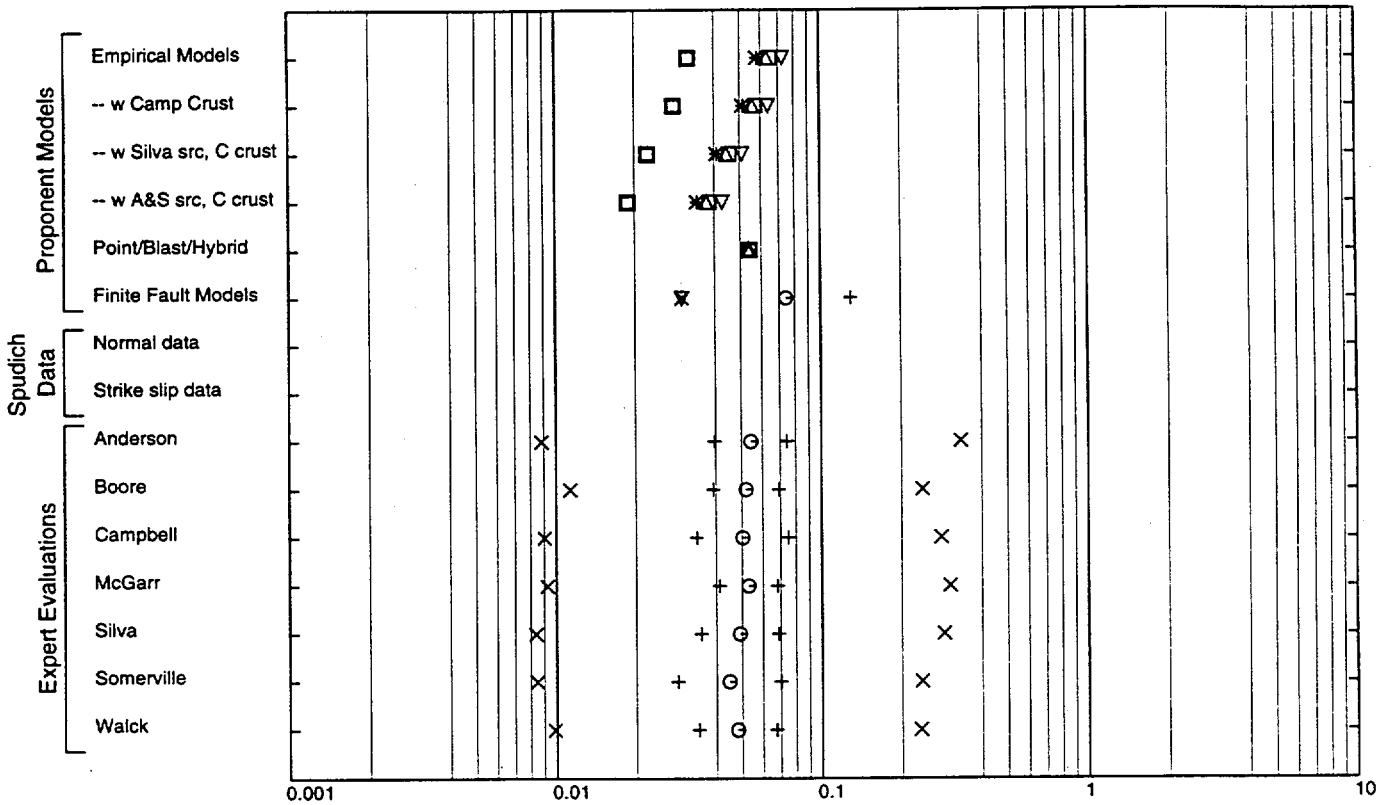
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



Aleatory Sigma (LN units) w/ Comp Var.

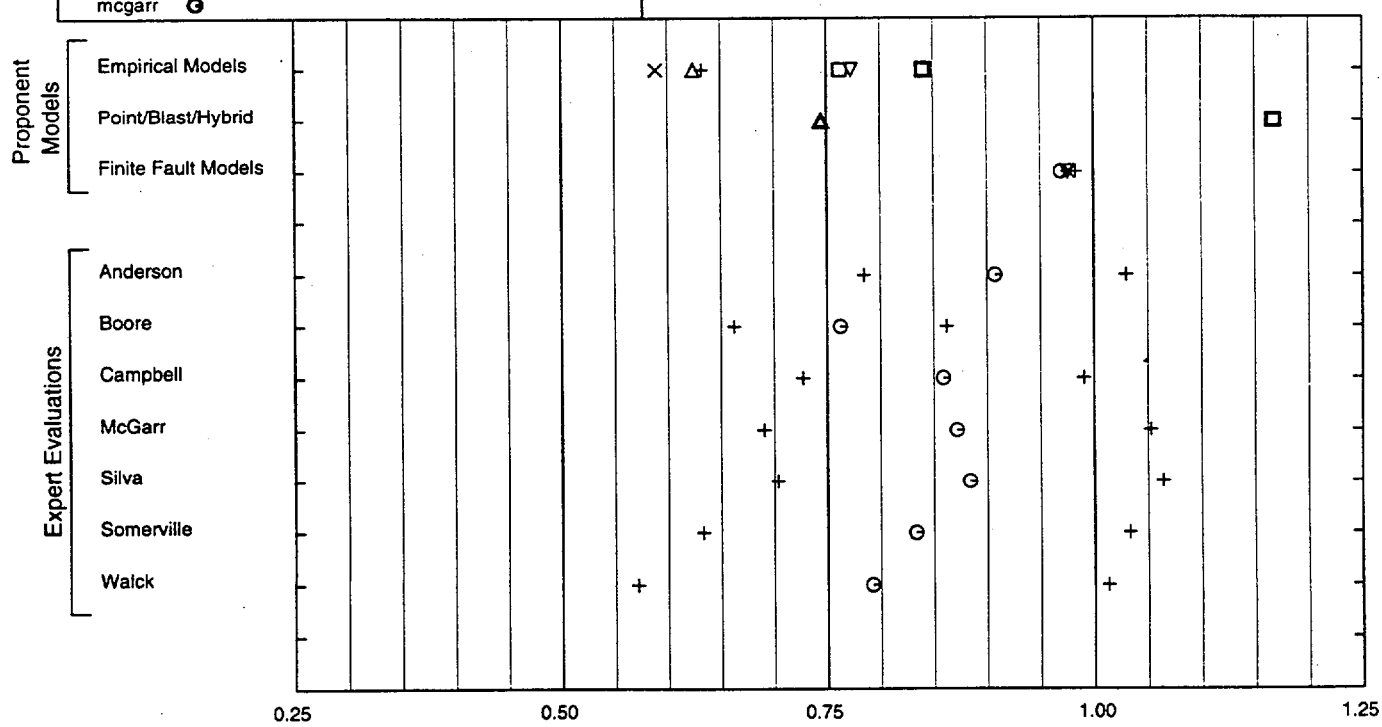
case 50, M= 8.0, shallow, xd= 50 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



Spectral Acceleration (g)

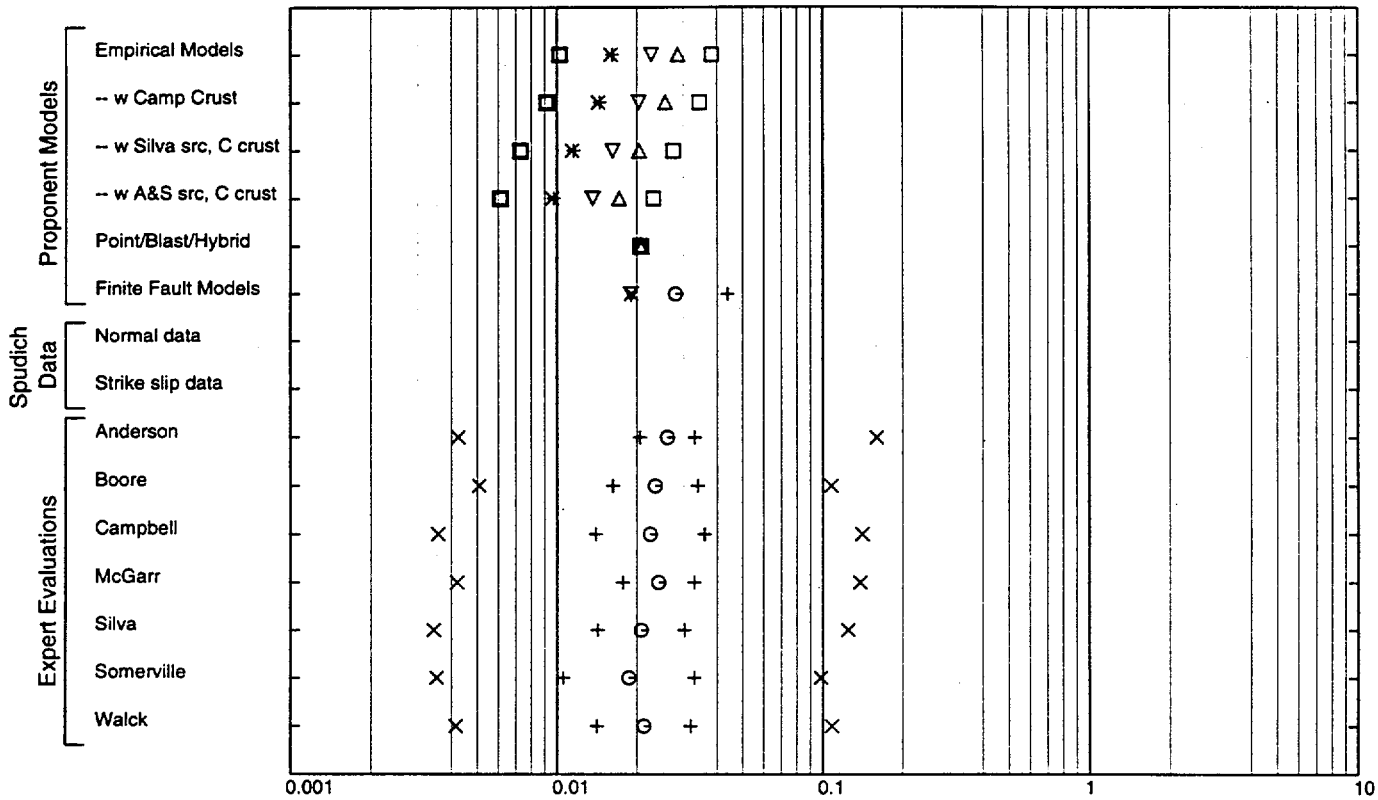
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

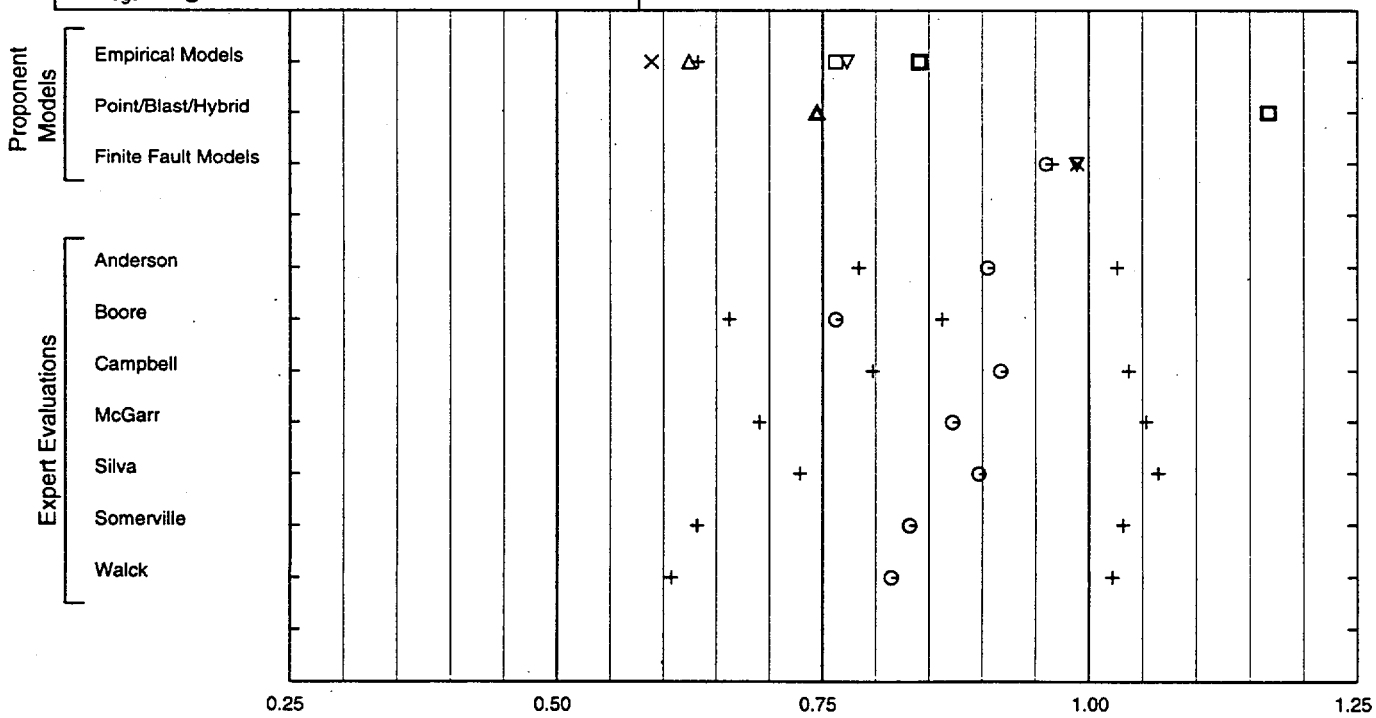
case 51, M= 8.0, shallow, xd=160 km, SS, 0.3 Hz, HOR, 6/5/97, Rev 1



LEGEND

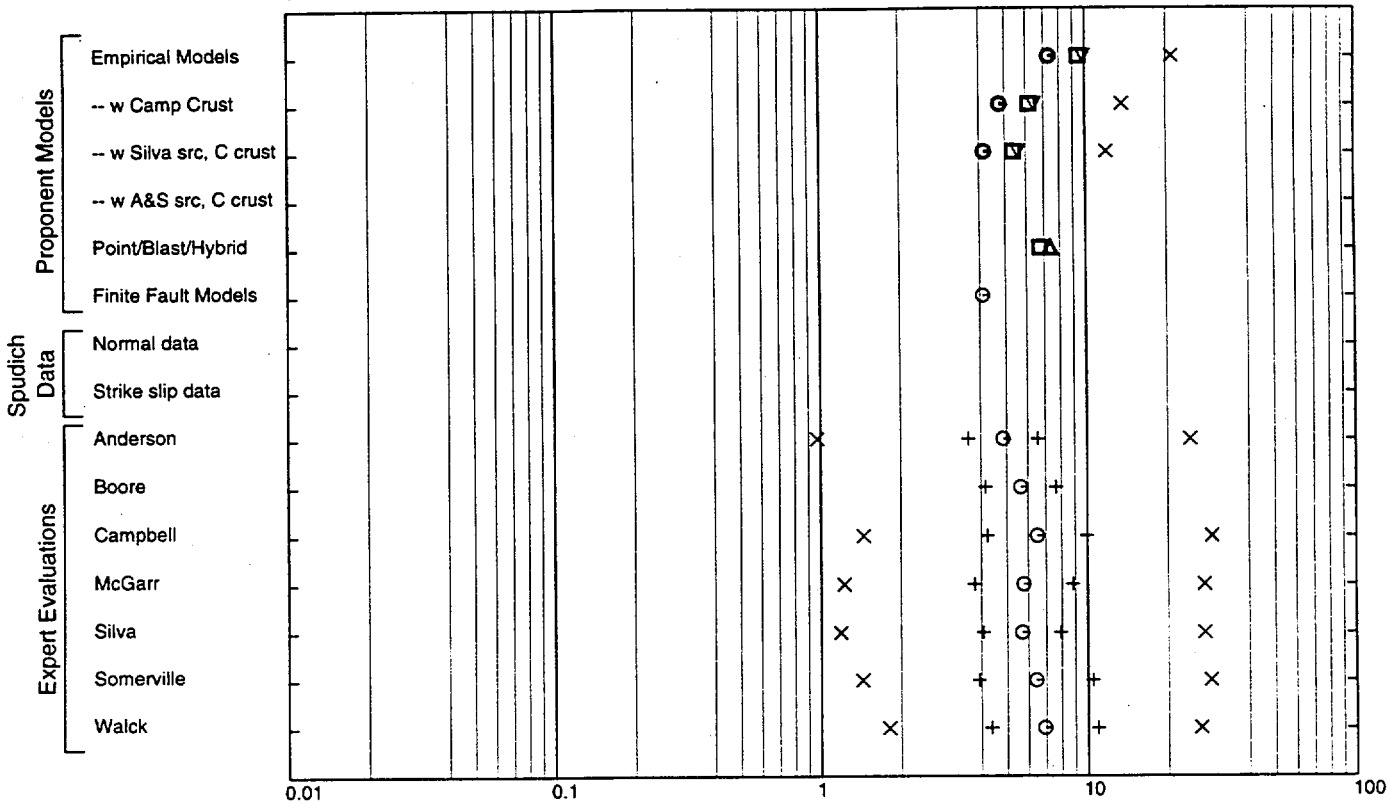
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Spectral Acceleration (g)



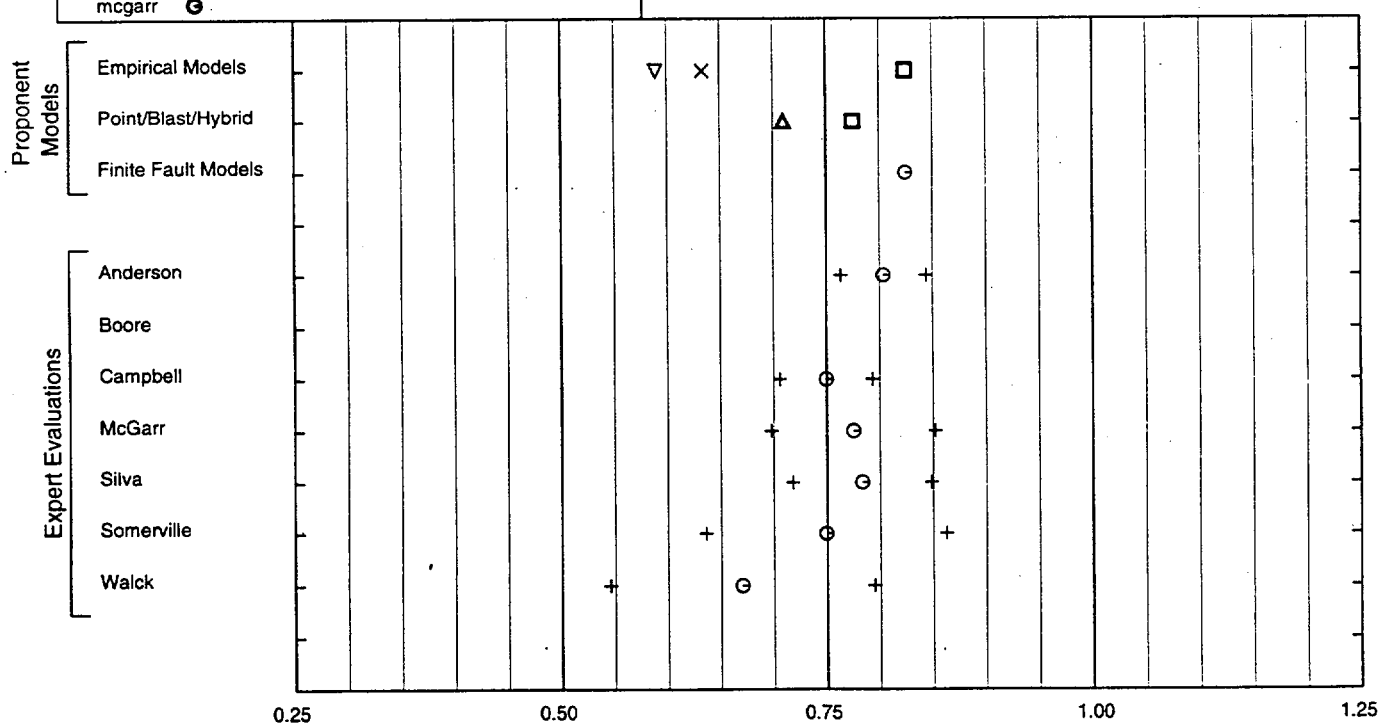
Aleatory Sigma (LN units) w/ Comp Var.

case 1, M= 5.0, shallow, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

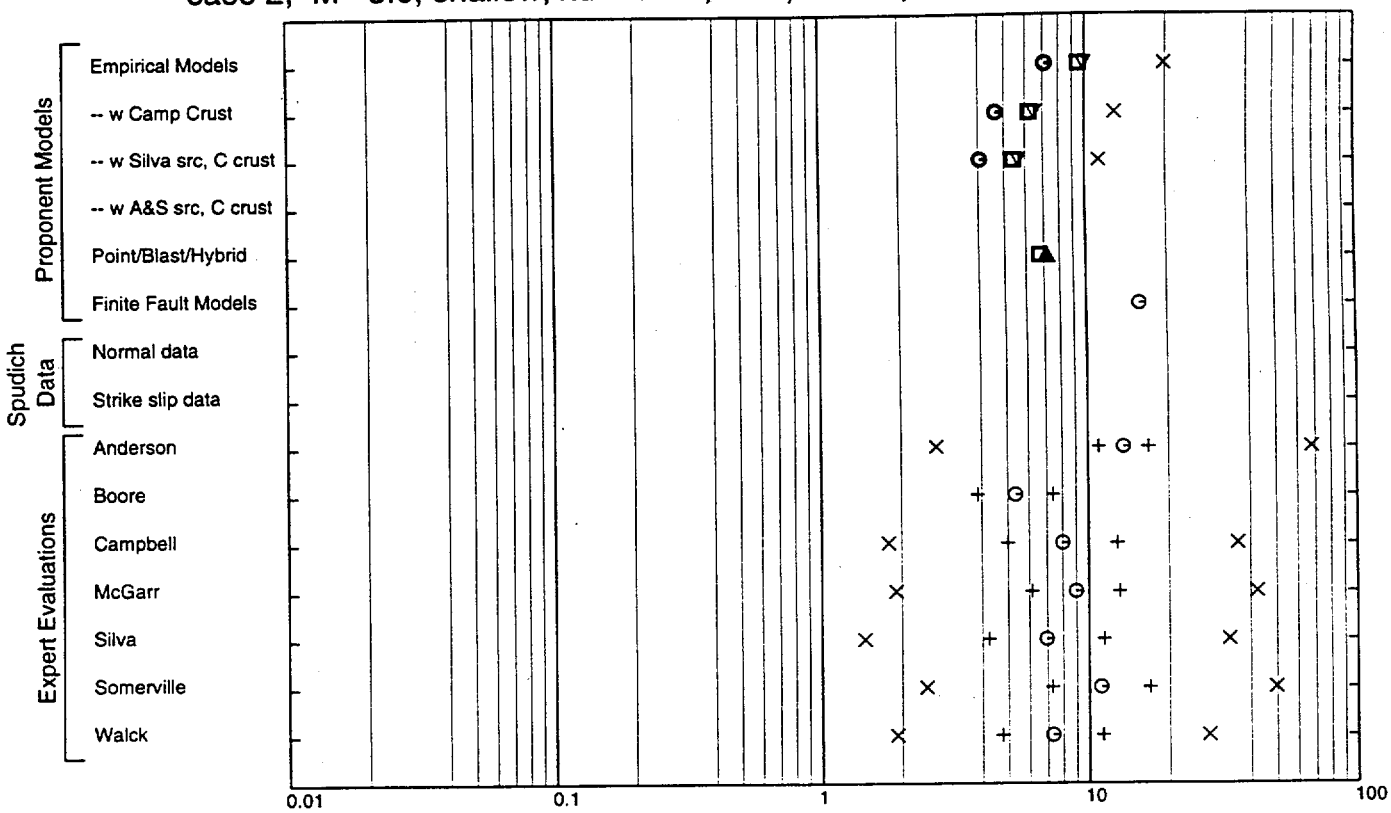


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



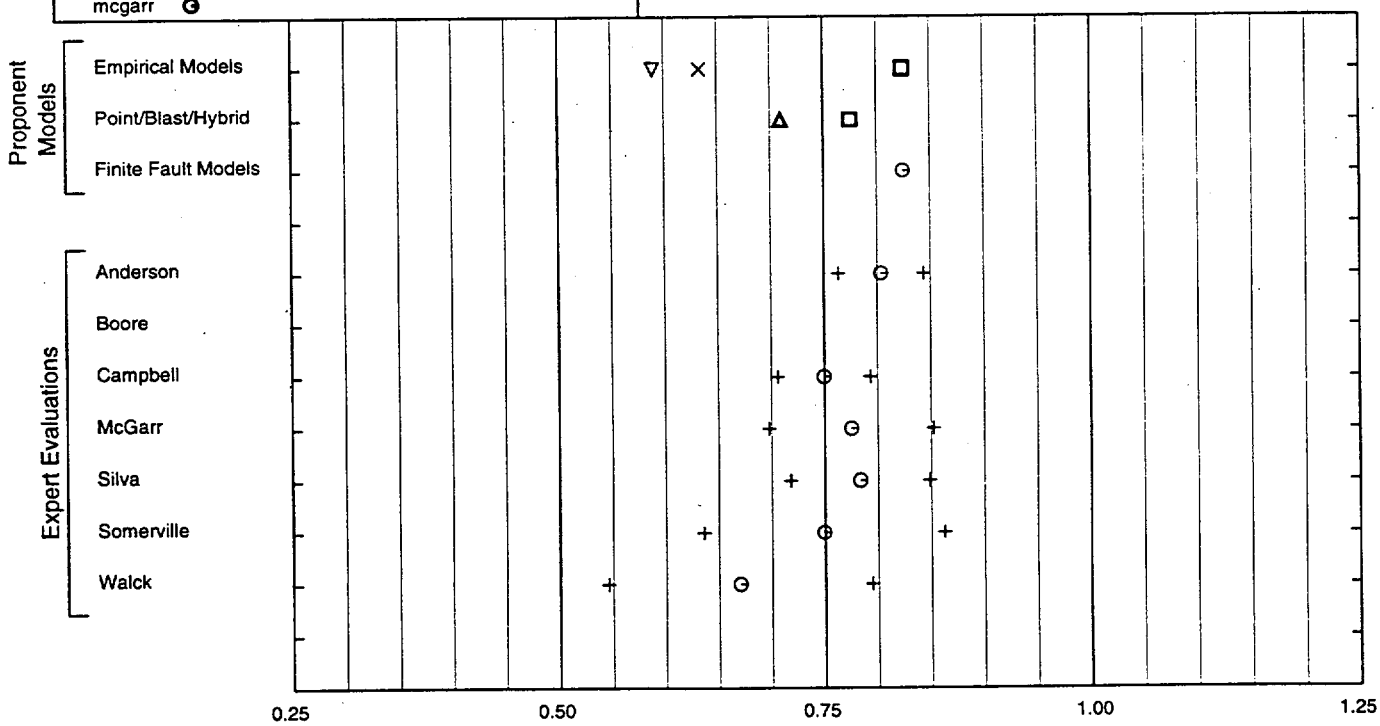
case 2, M= 5.0, shallow, xd= 1 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

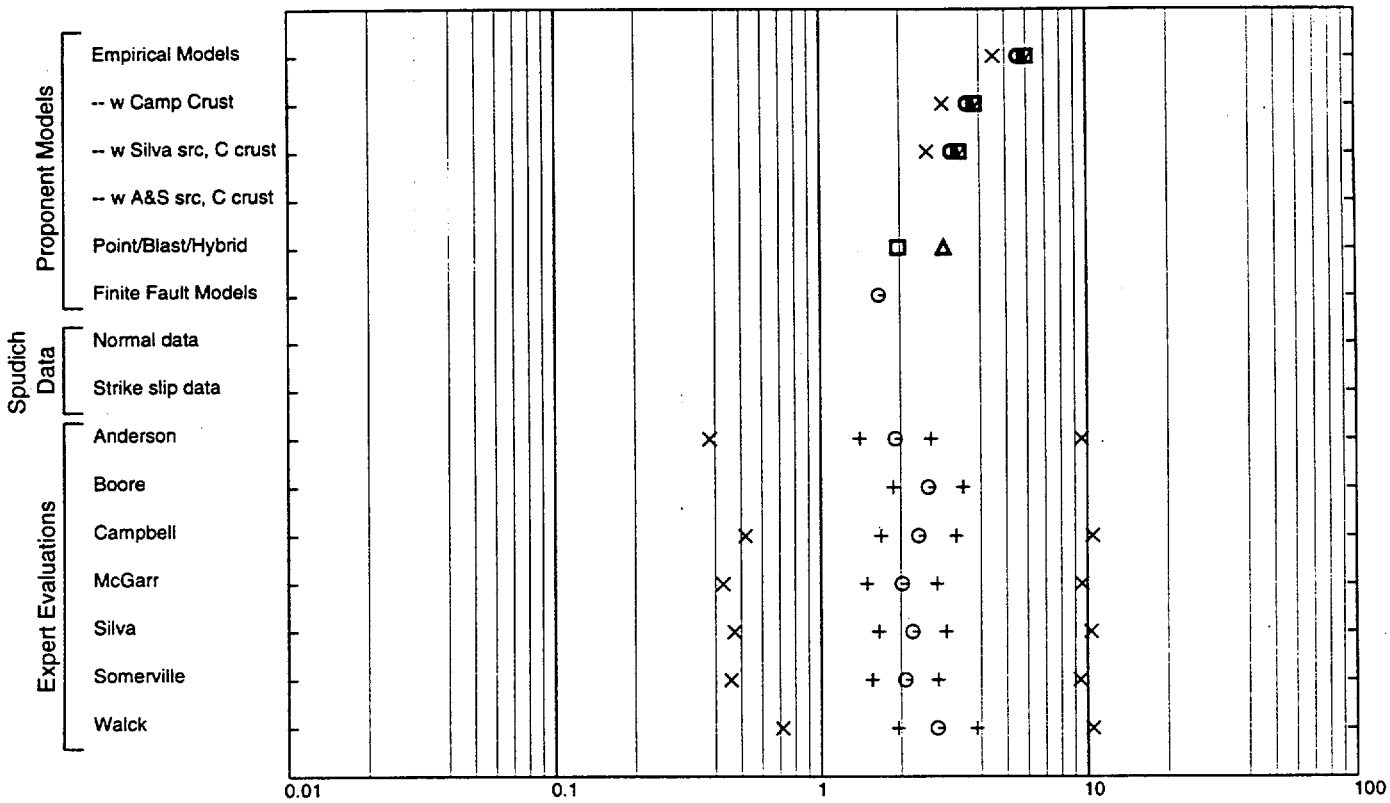
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



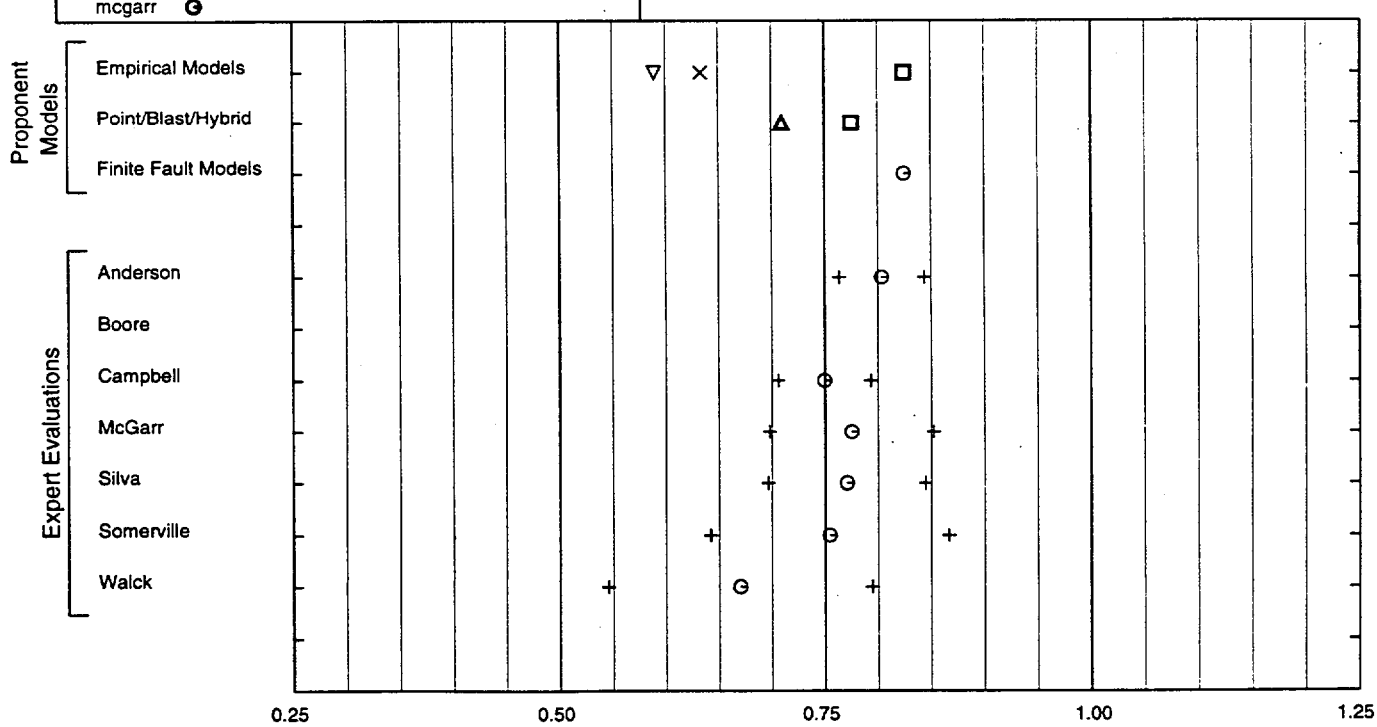
Aleatory Sigma (LN units) w/ Comp Var.

case 3, M= 5.0, deep, xd= 5 km, SS, PGV, HOR, 6/5/97, Rev 1

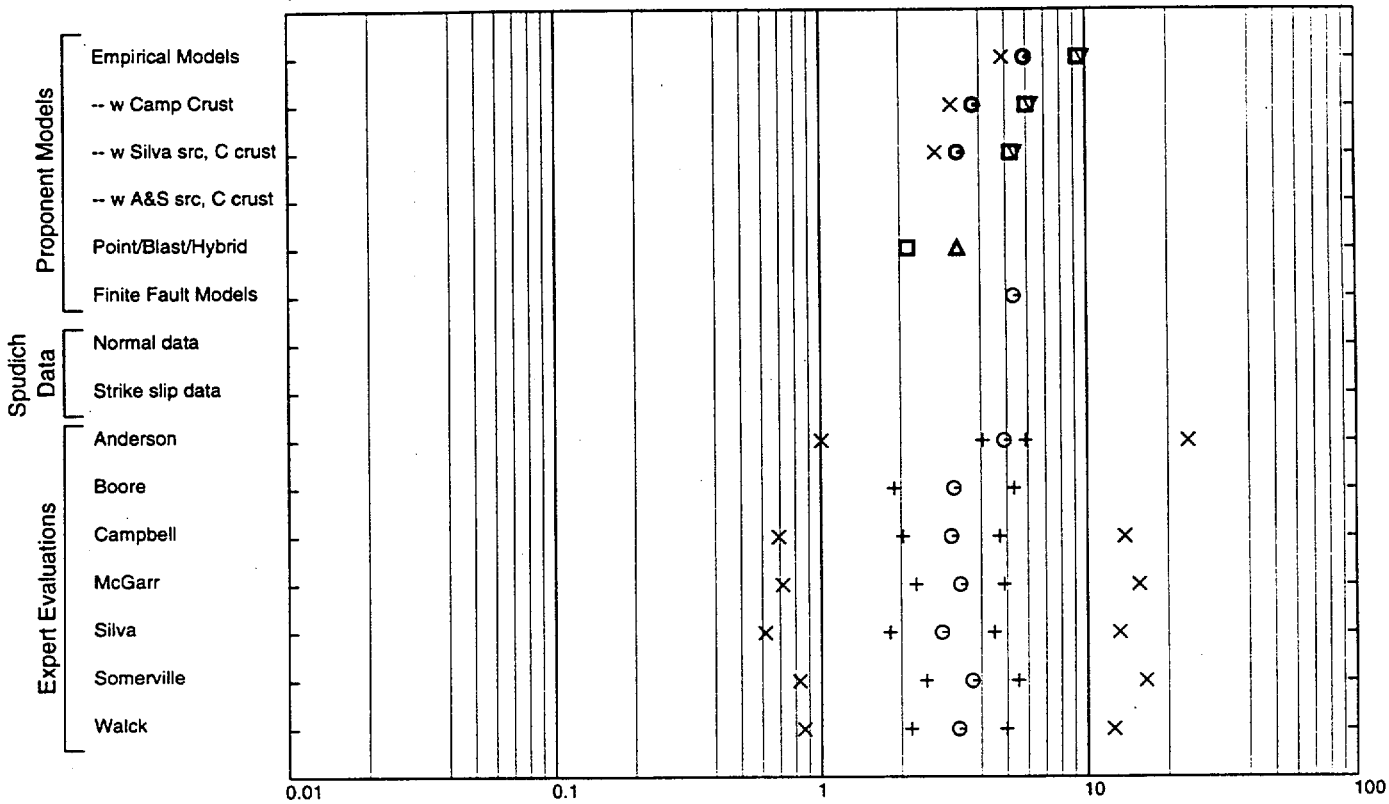


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



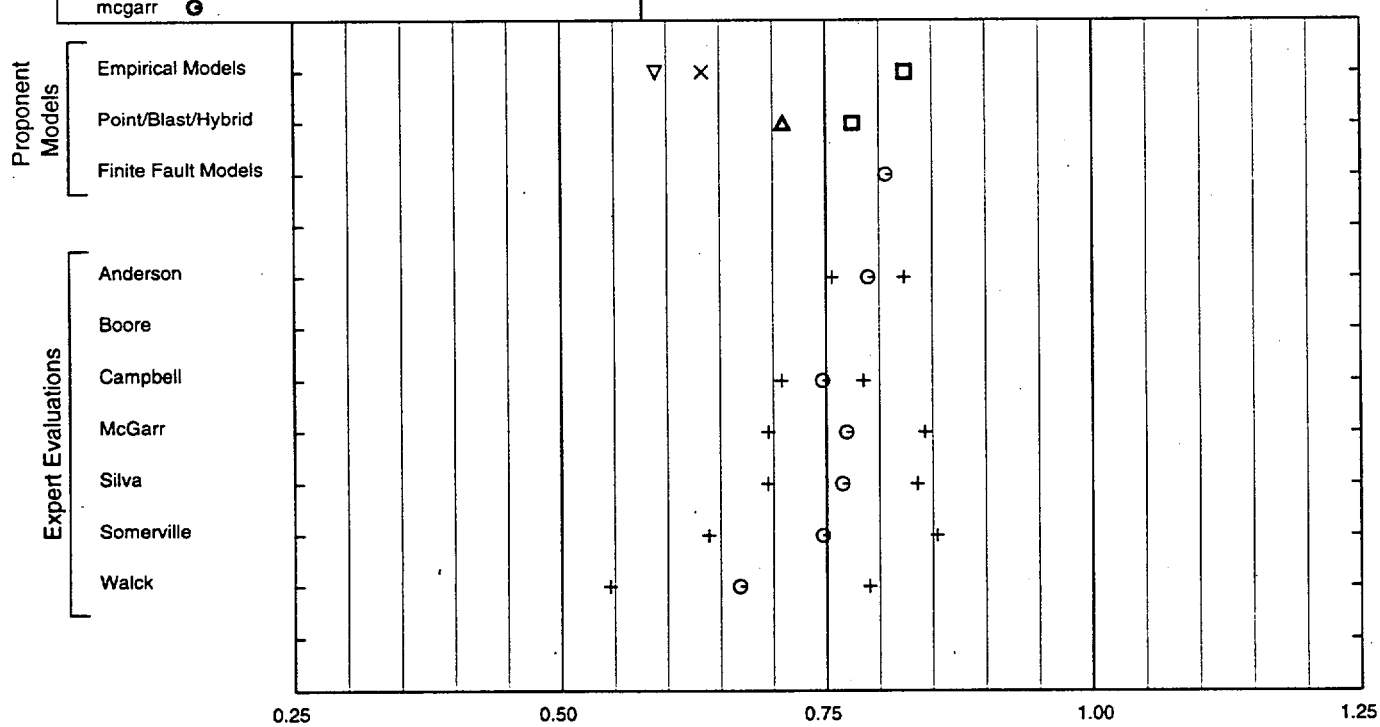
case 4, M= 5.0, deep, xd= 5 km, HW, PGV, HOR, 6/5/97, Rev 1



LEGEND

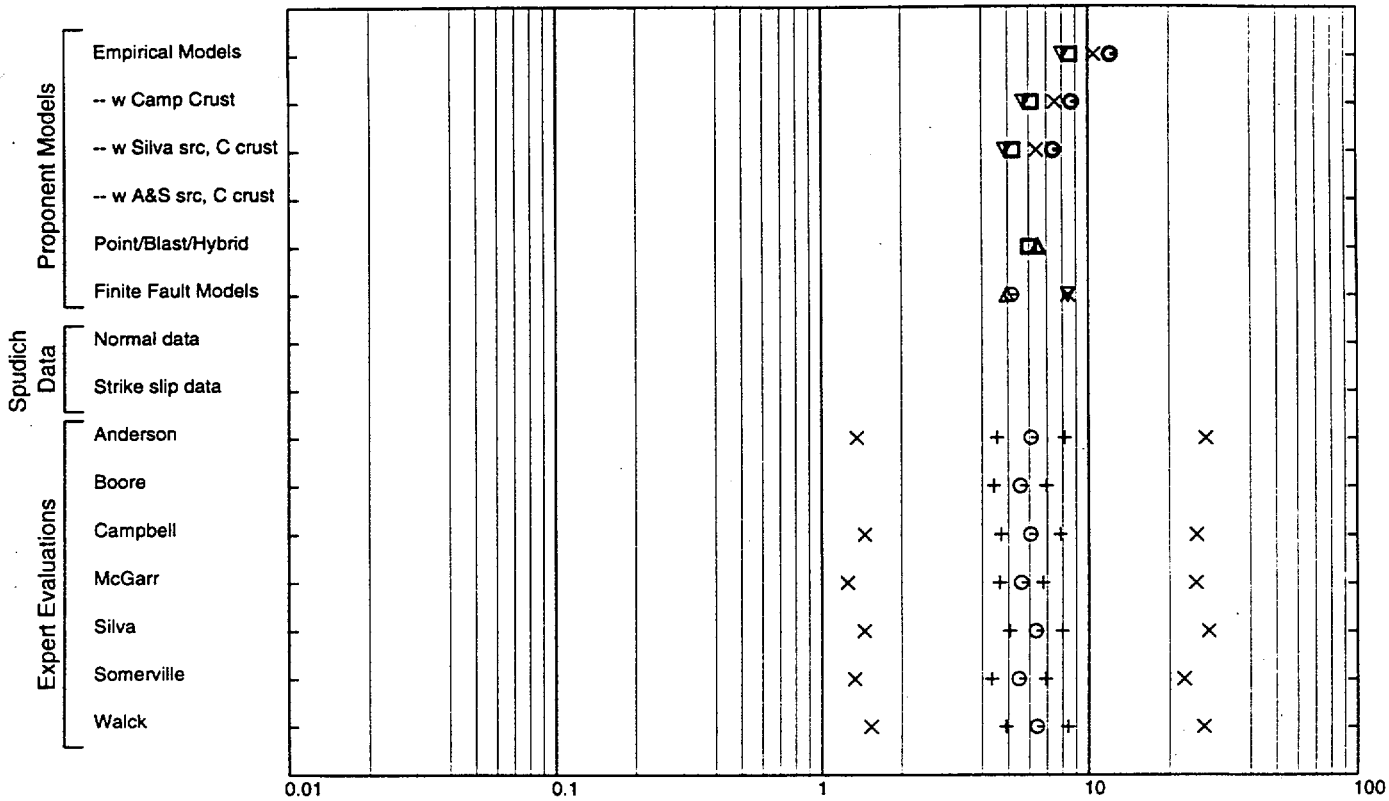
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Velocity (cm/s)



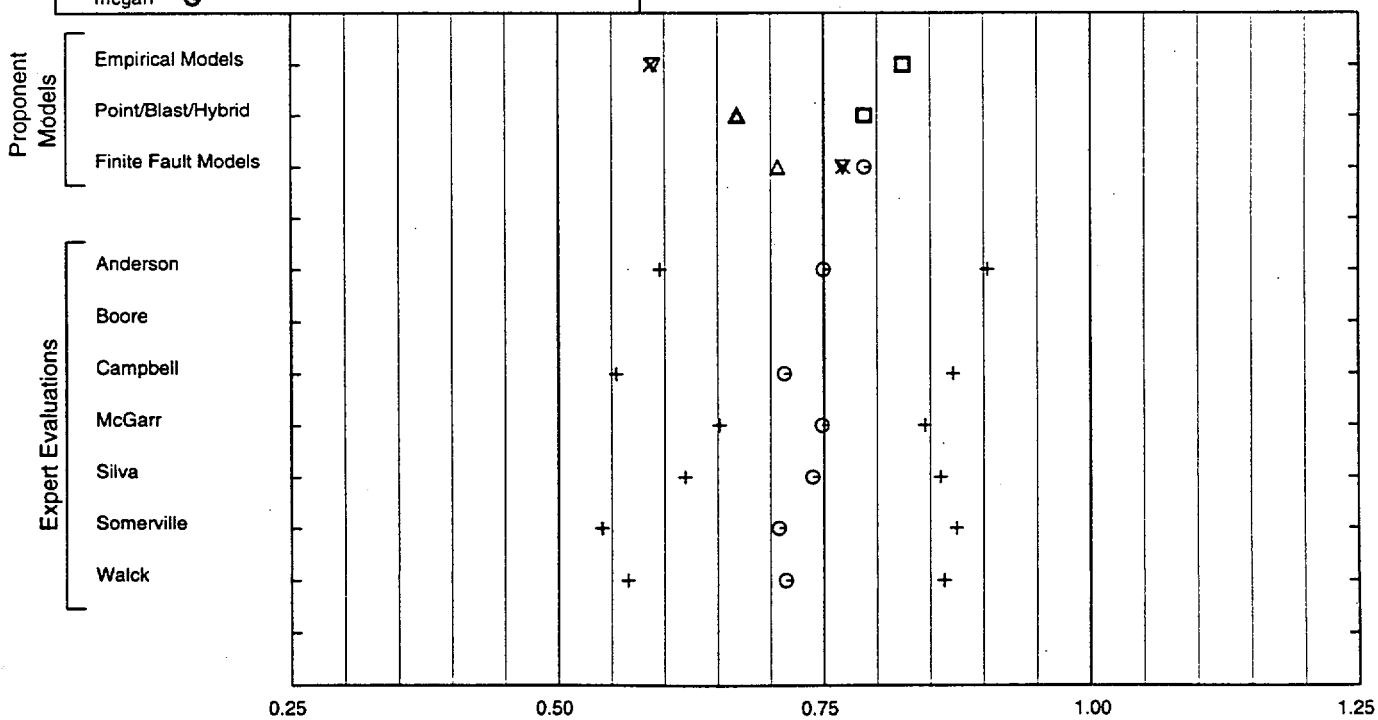
Aleatory Sigma (LN units) w/ Comp Var.

case 5, M= 5.8, deep, xd= 10 km, SS, PGV, HOR, 6/5/97, Rev 1

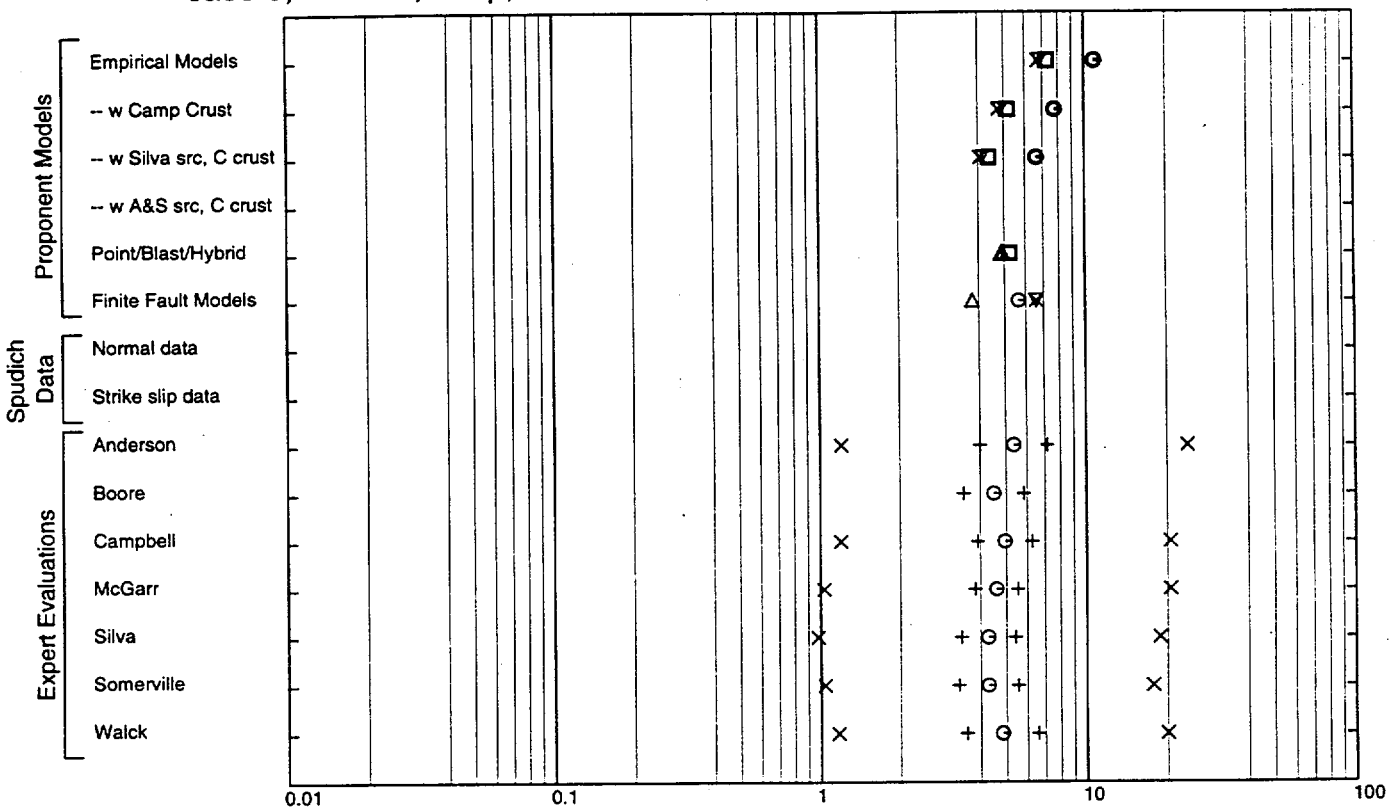


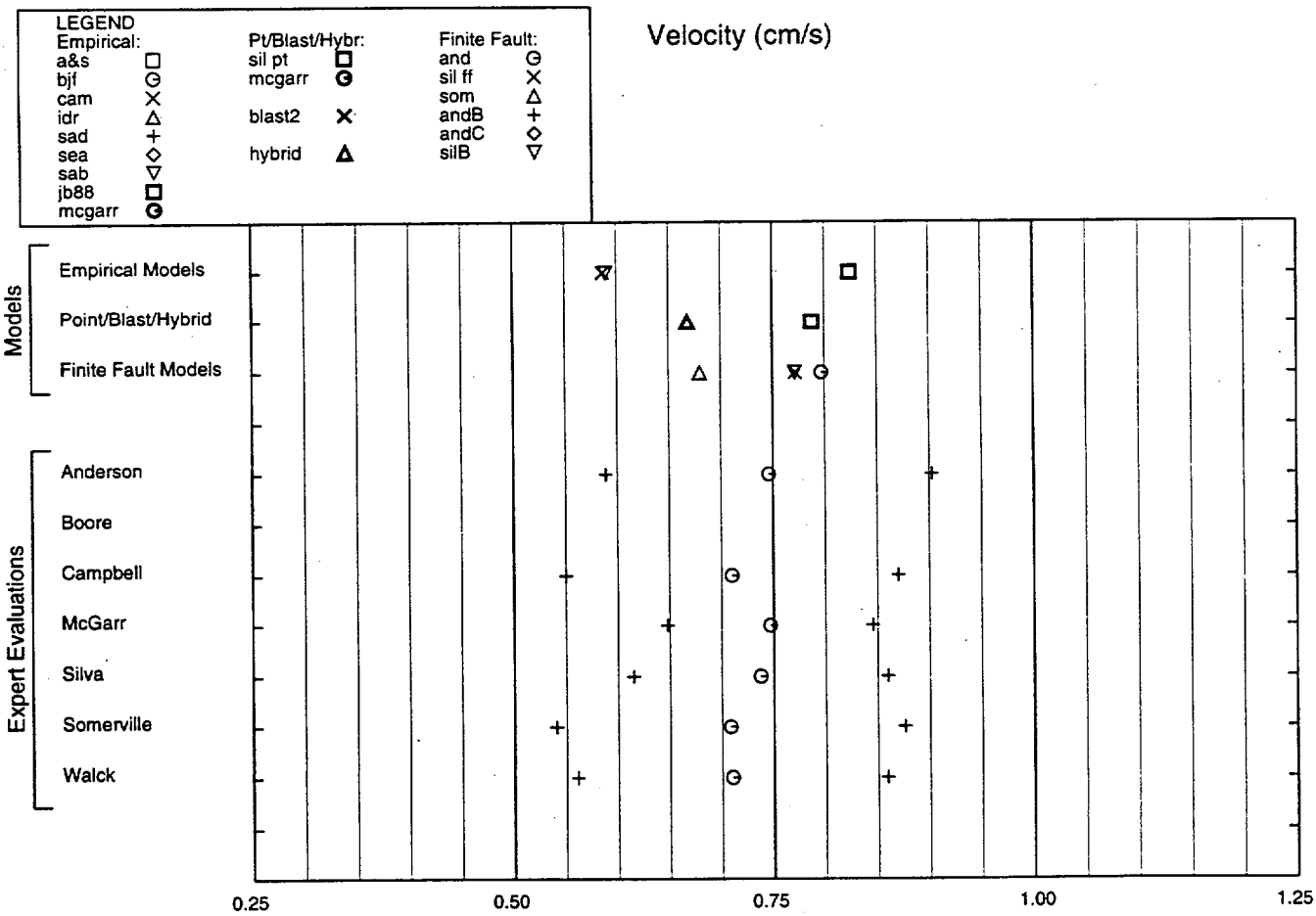
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

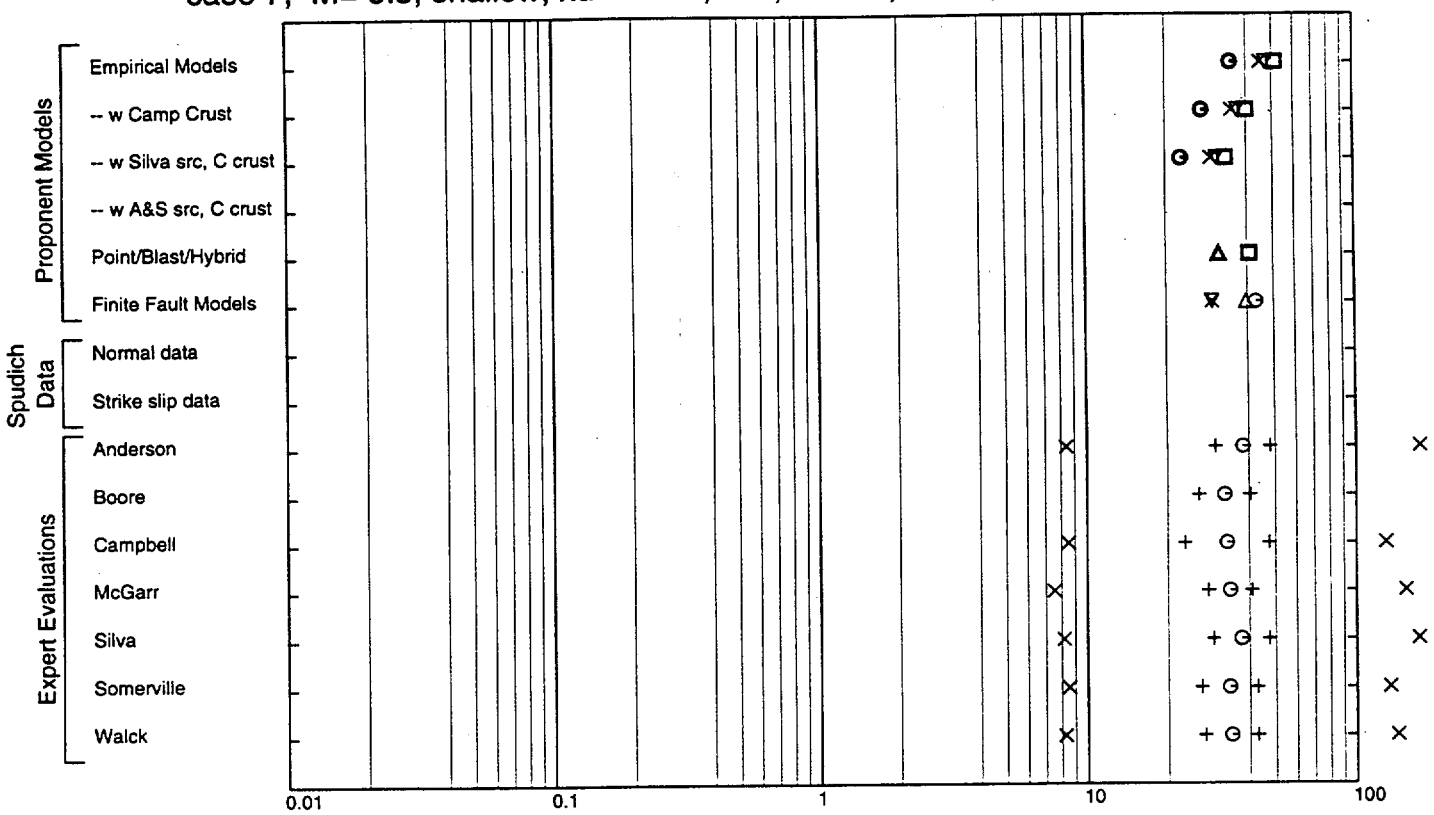


case 6, M= 5.8, deep, xd= 20 km, HW, PGV, HOR, 6/5/97, Rev 1



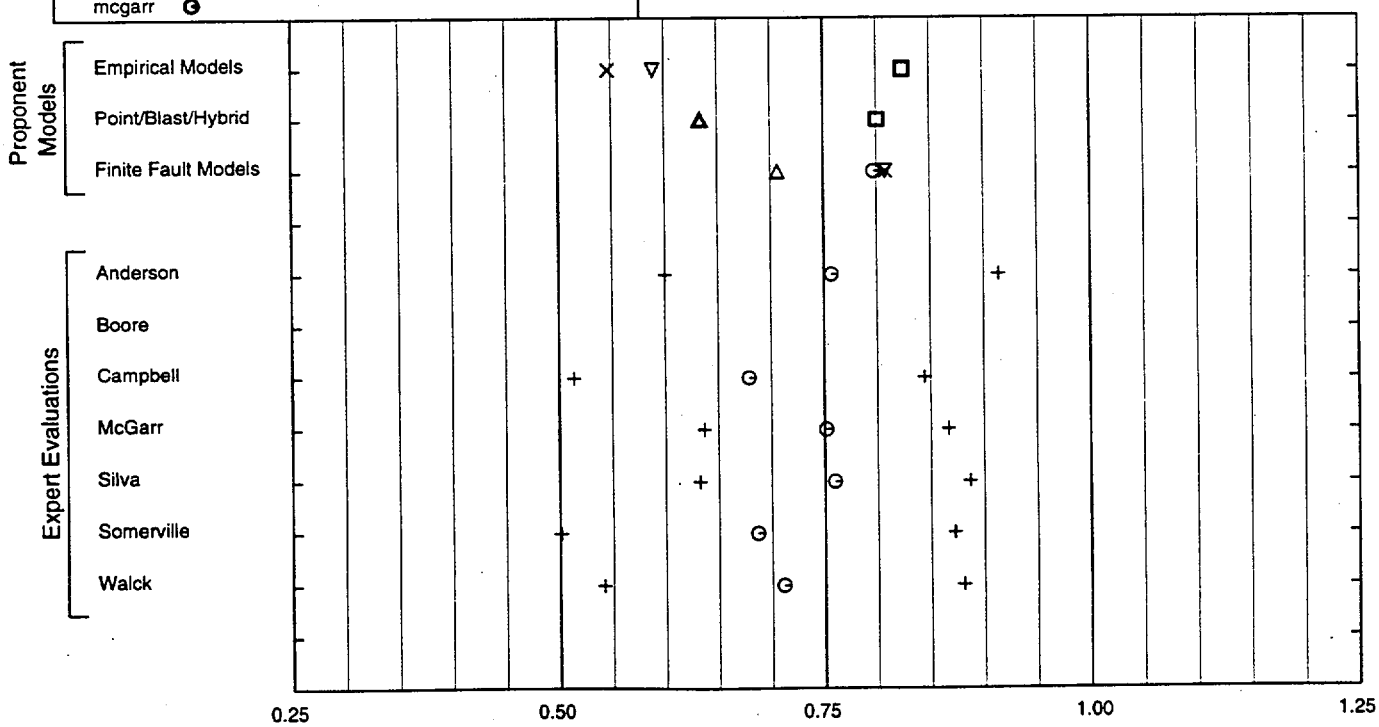


case 7, M= 6.5, shallow, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

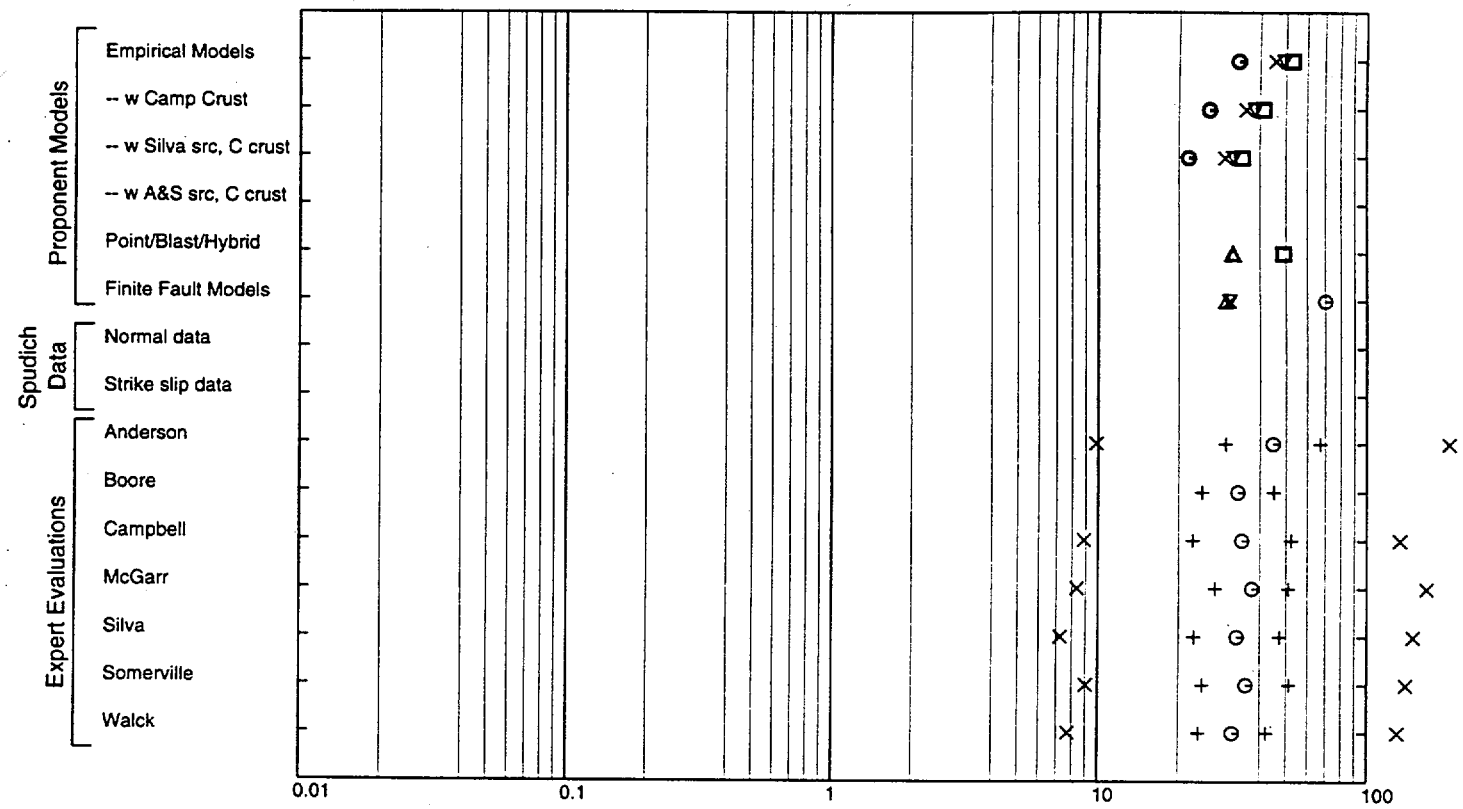


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



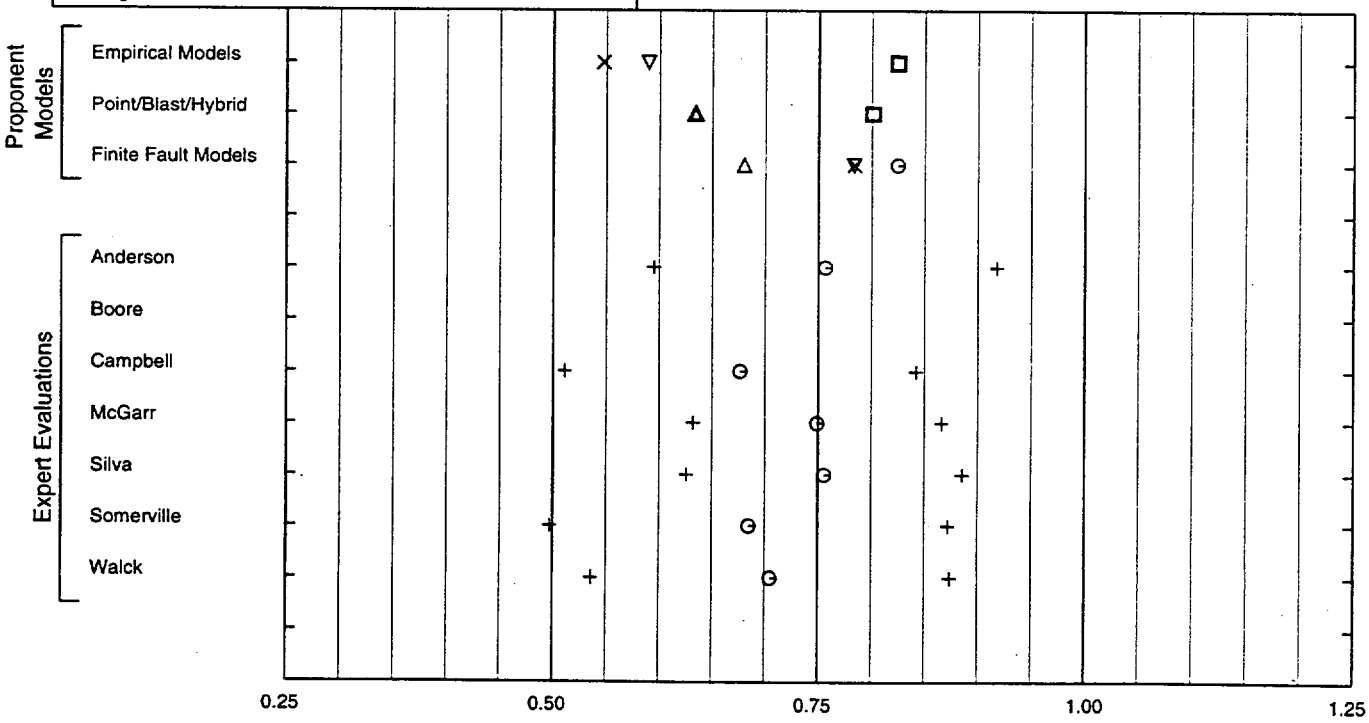
case 8, M= 6.5, shallow, xd= 1 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

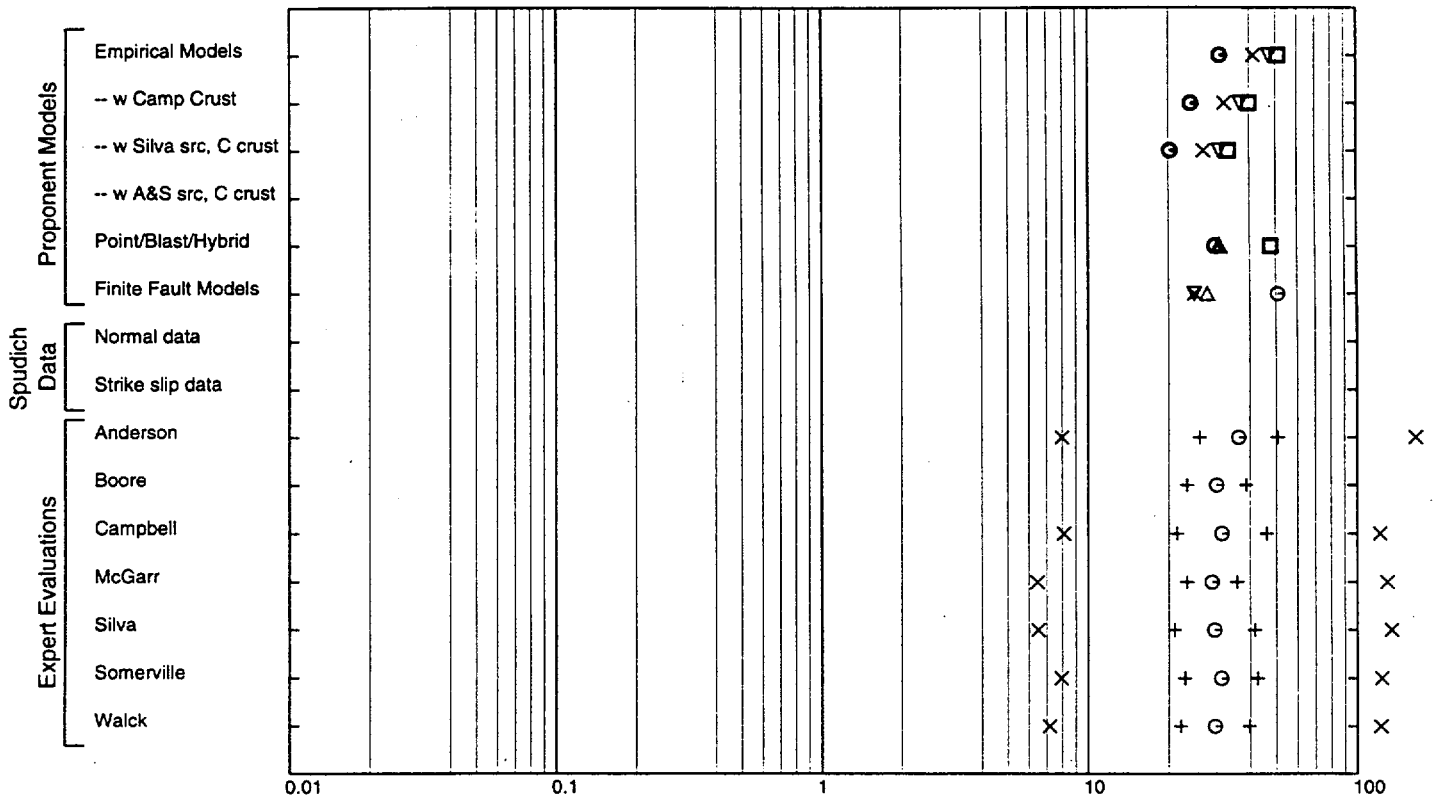
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



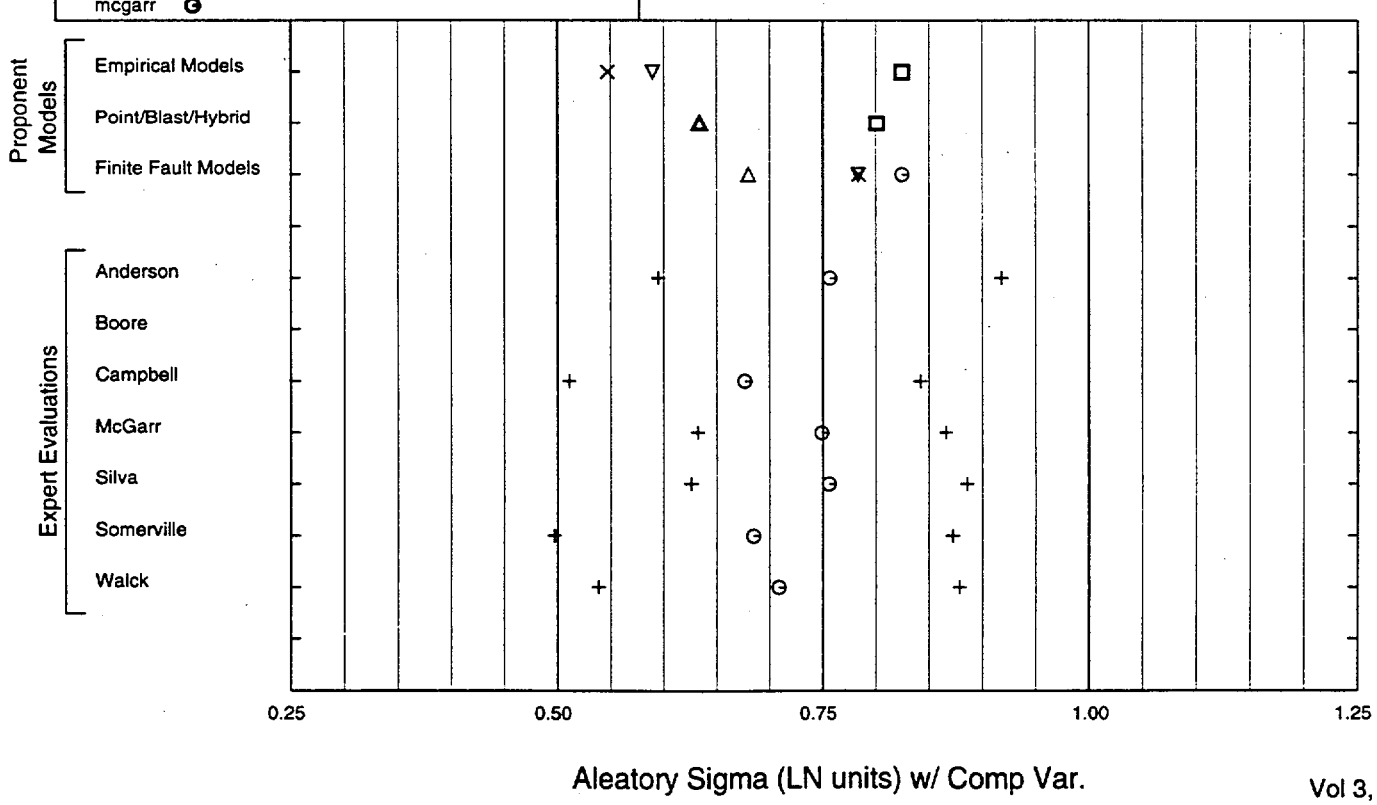
Aleatory Sigma (LN units) w/ Comp Var.

case 9, M= 6.5, shallow, xd= -1 km, FW, PGV, HOR, 6/5/97, Rev 1

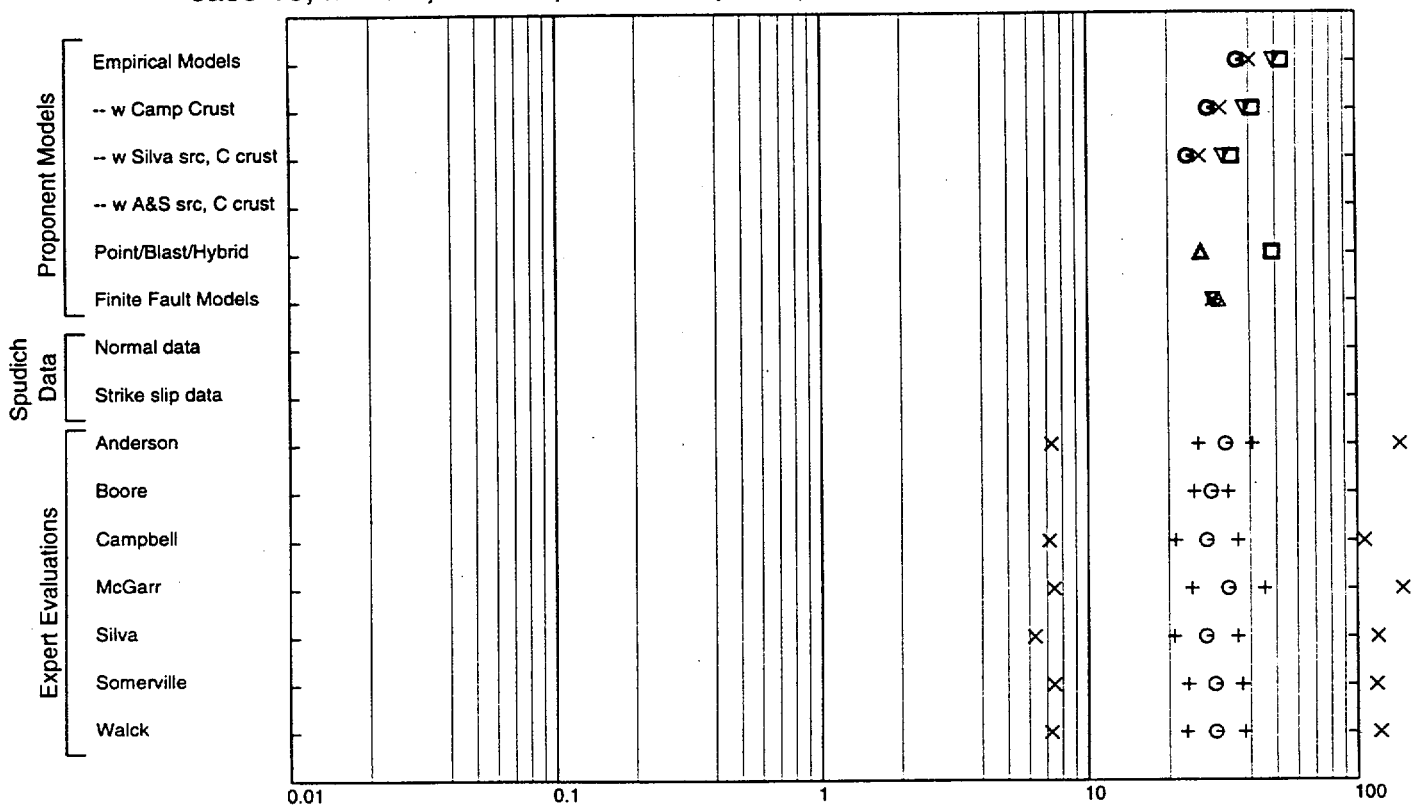


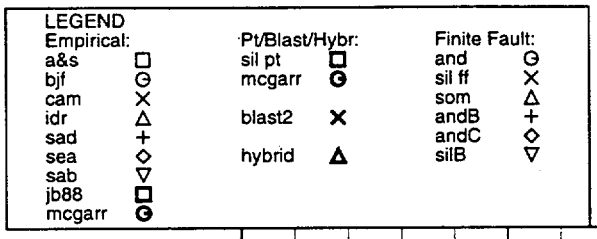
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

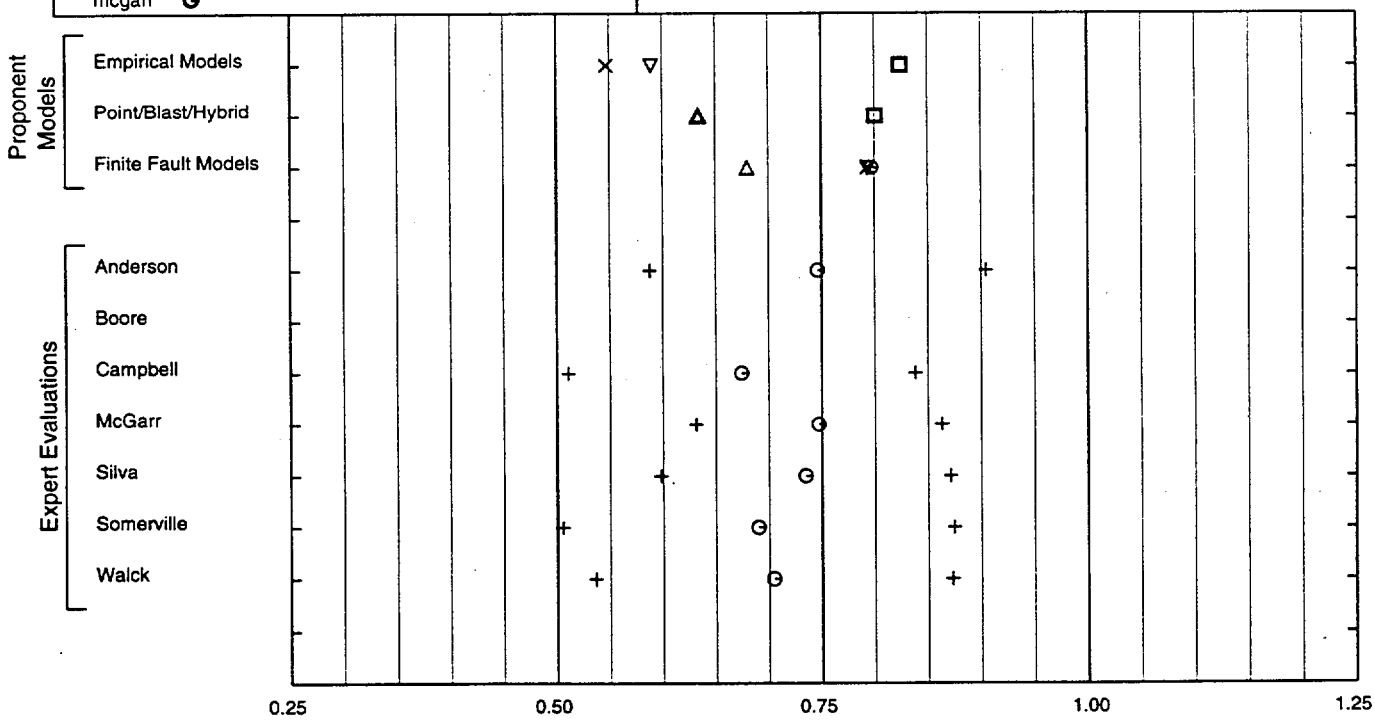


case 10, M= 6.5, shallow, xd= 5 km, HW, PGV, HOR, 6/5/97, Rev 1



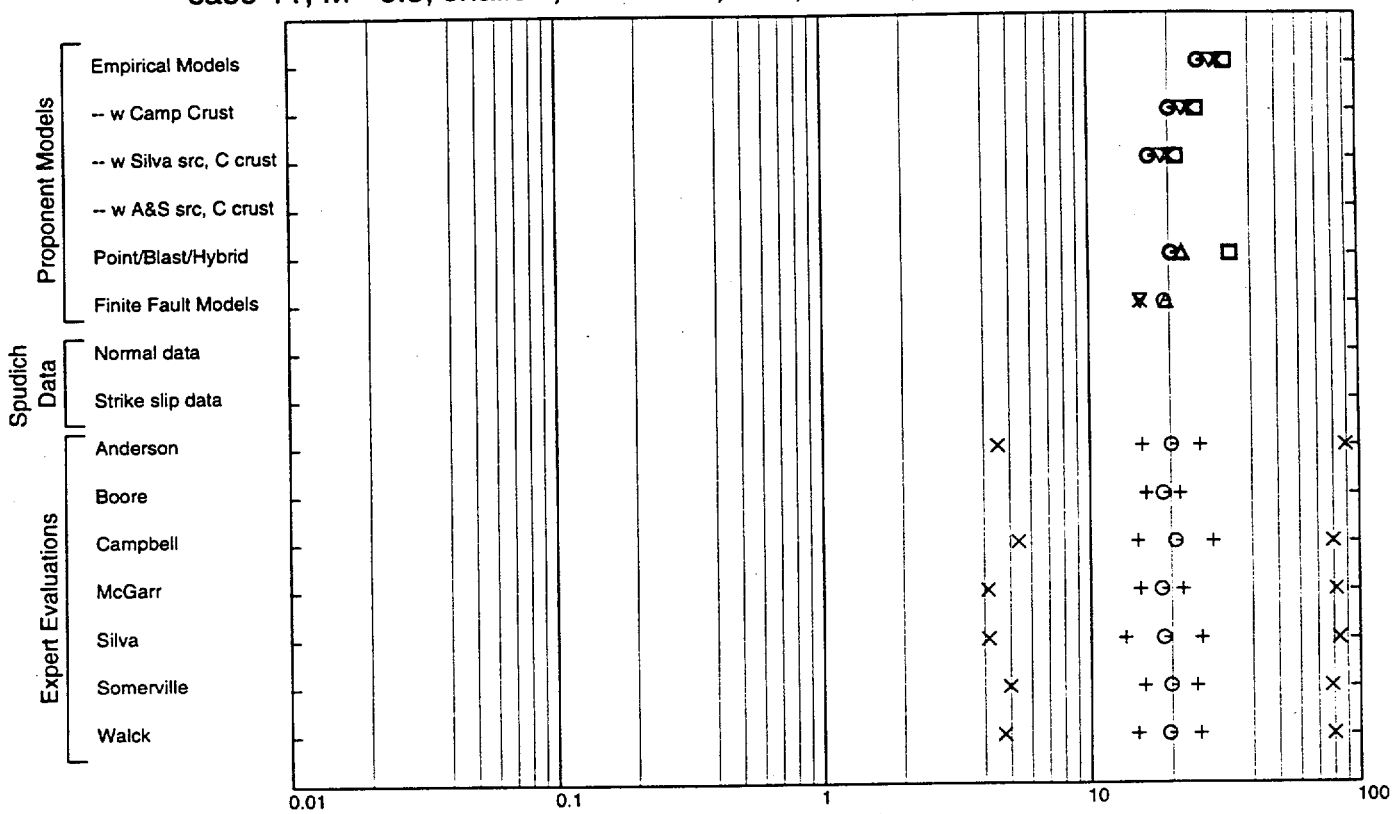


Velocity (cm/s)



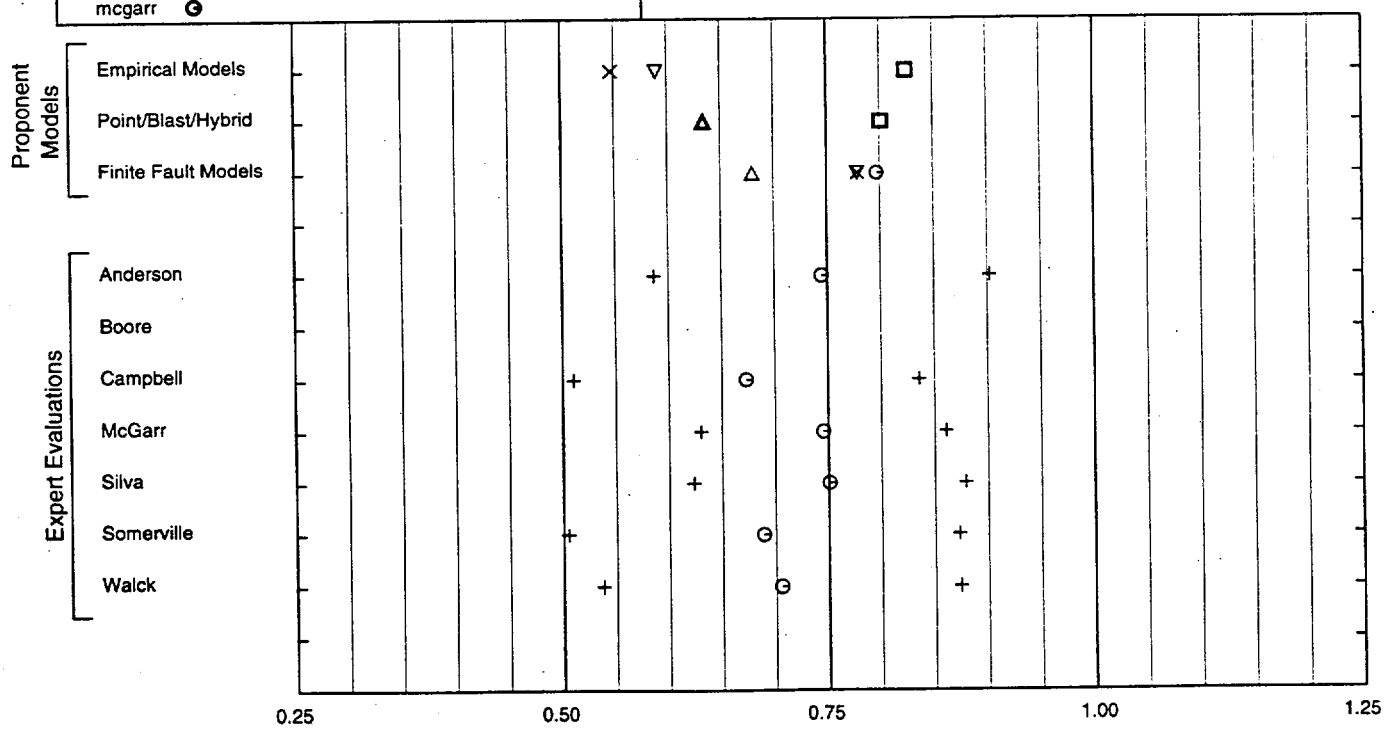
Aleatory Sigma (LN units) w/ Comp Var.

case 11, M= 6.5, shallow, xd= -5 km, FW, PGV, HOR, 6/5/97, Rev 1

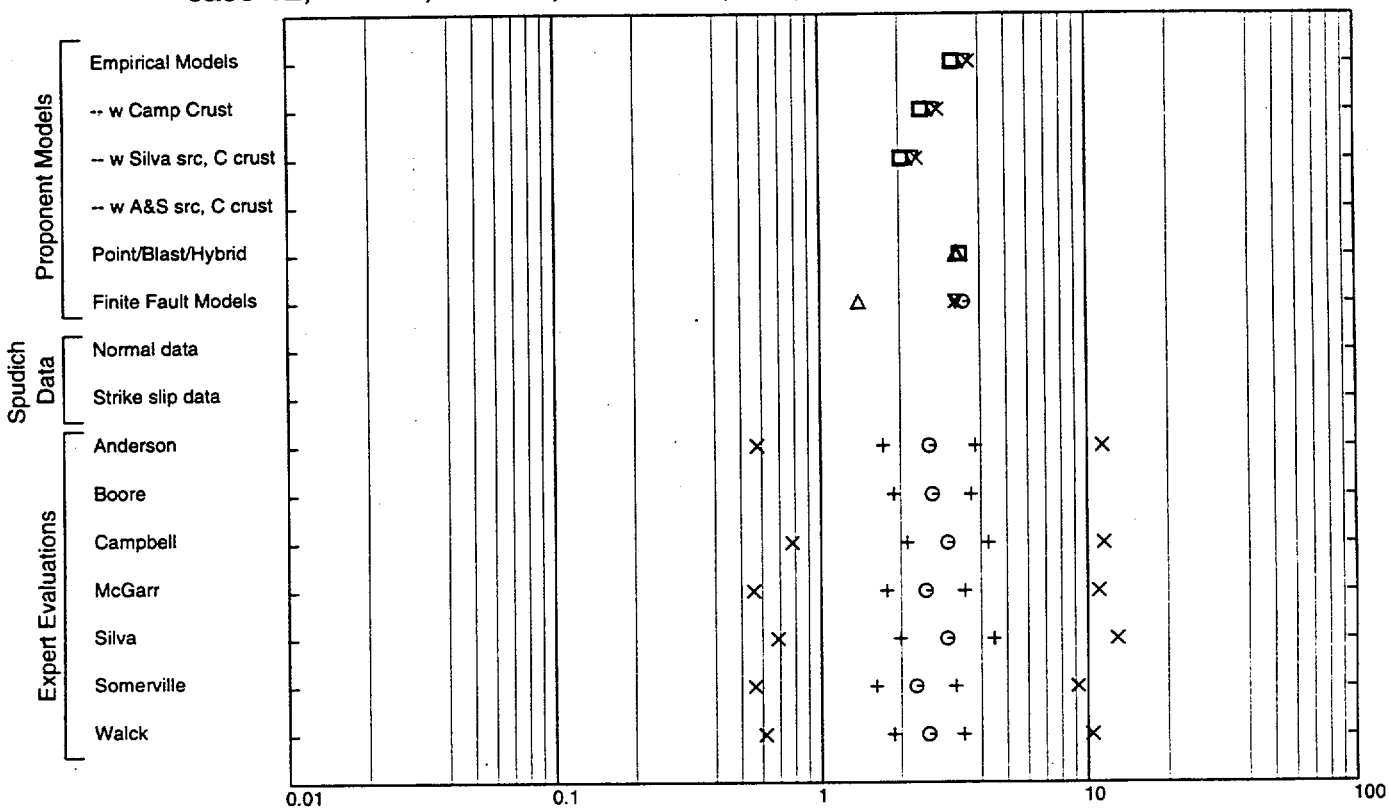


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

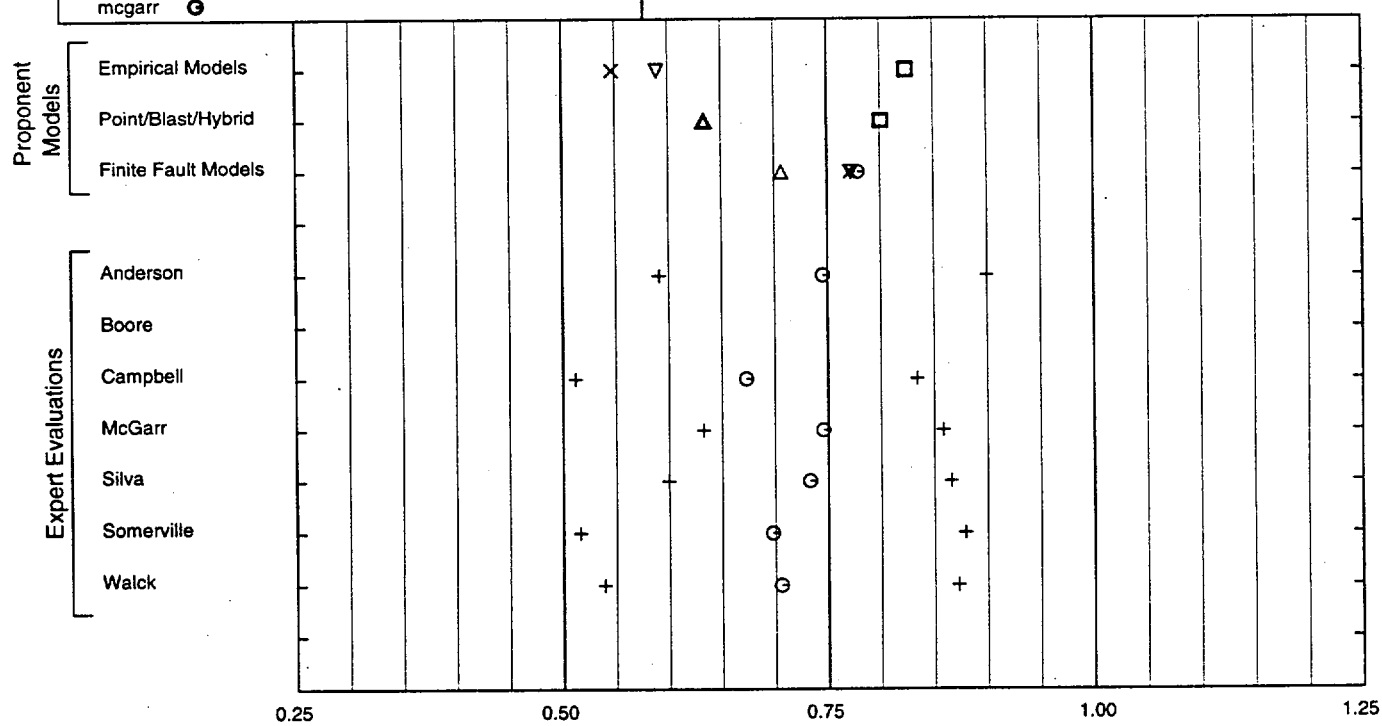


case 12, M= 6.5, shallow, xd= 50 km, SS, PGV, HOR, 6/5/97, Rev 1

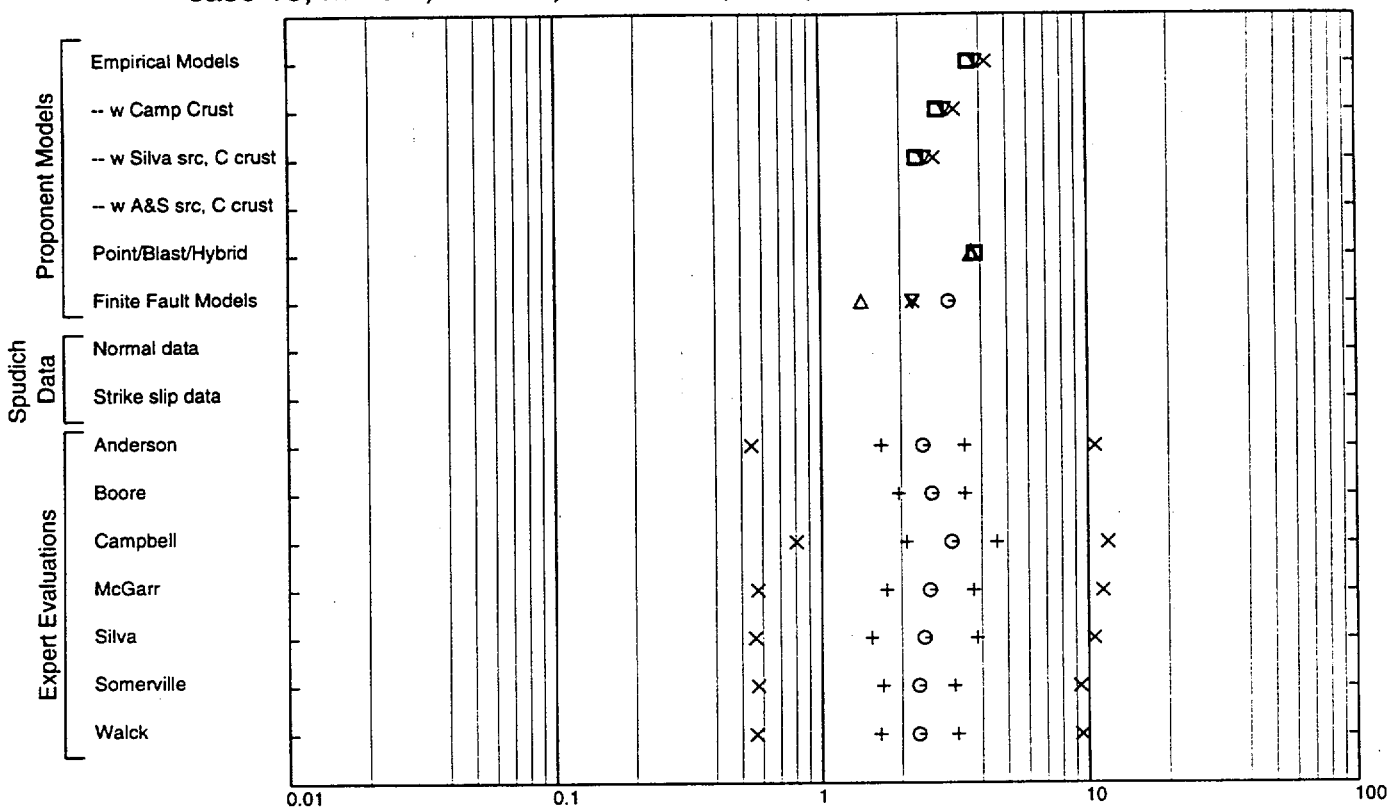


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



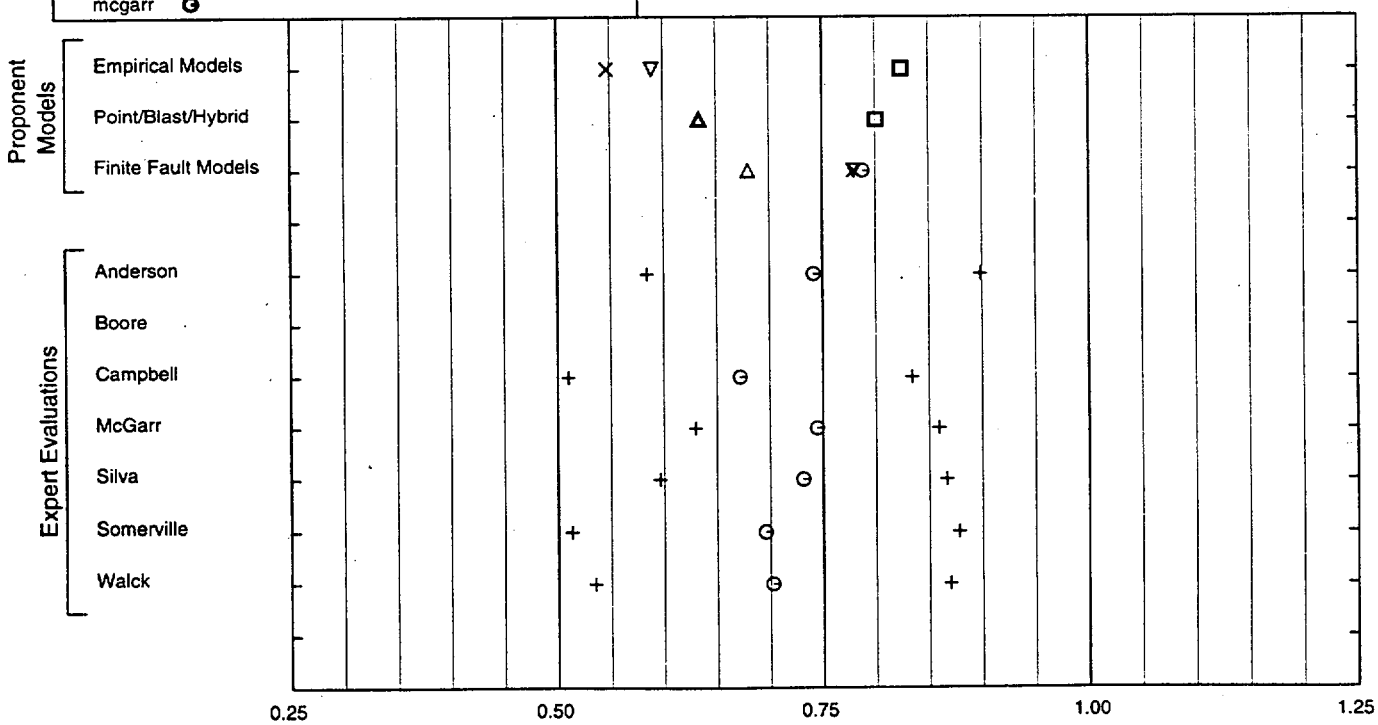
case 13, M= 6.5, shallow, xd= 50 km, HW, PGV, HOR, 6/5/97, Rev 1



LEGEND

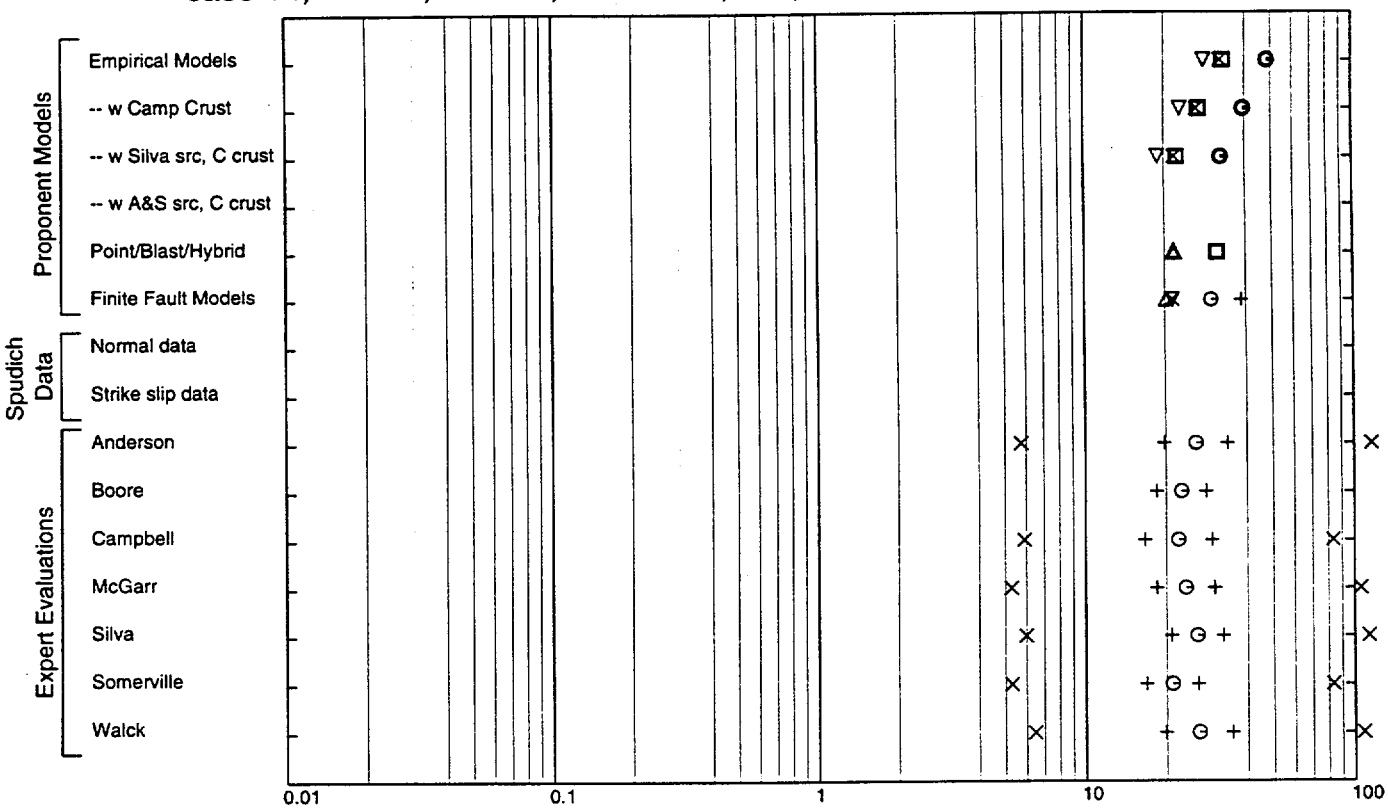
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Velocity (cm/s)



Aleatory Sigma (LN units) w/ Comp Var.

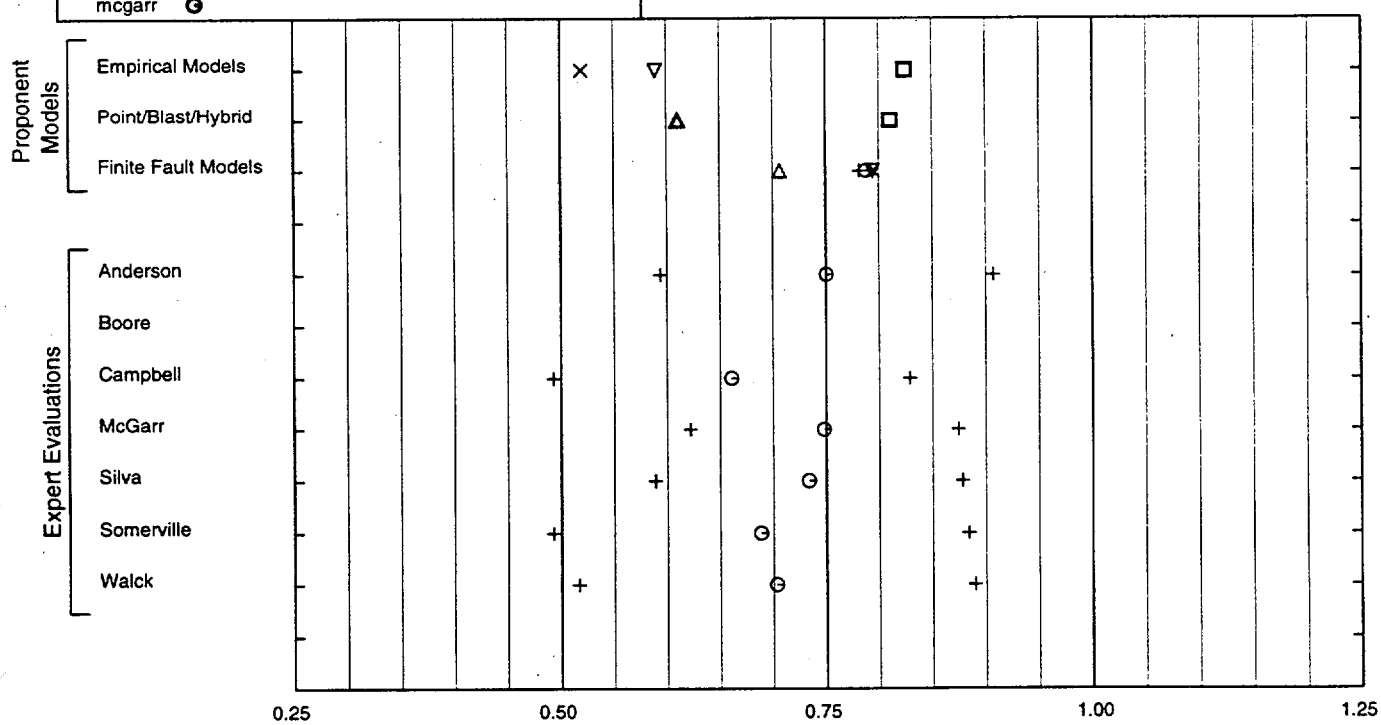
case 14, M= 7.0, shallow, xd= 10 km, SS, PGV, HOR, 6/5/97, Rev 1



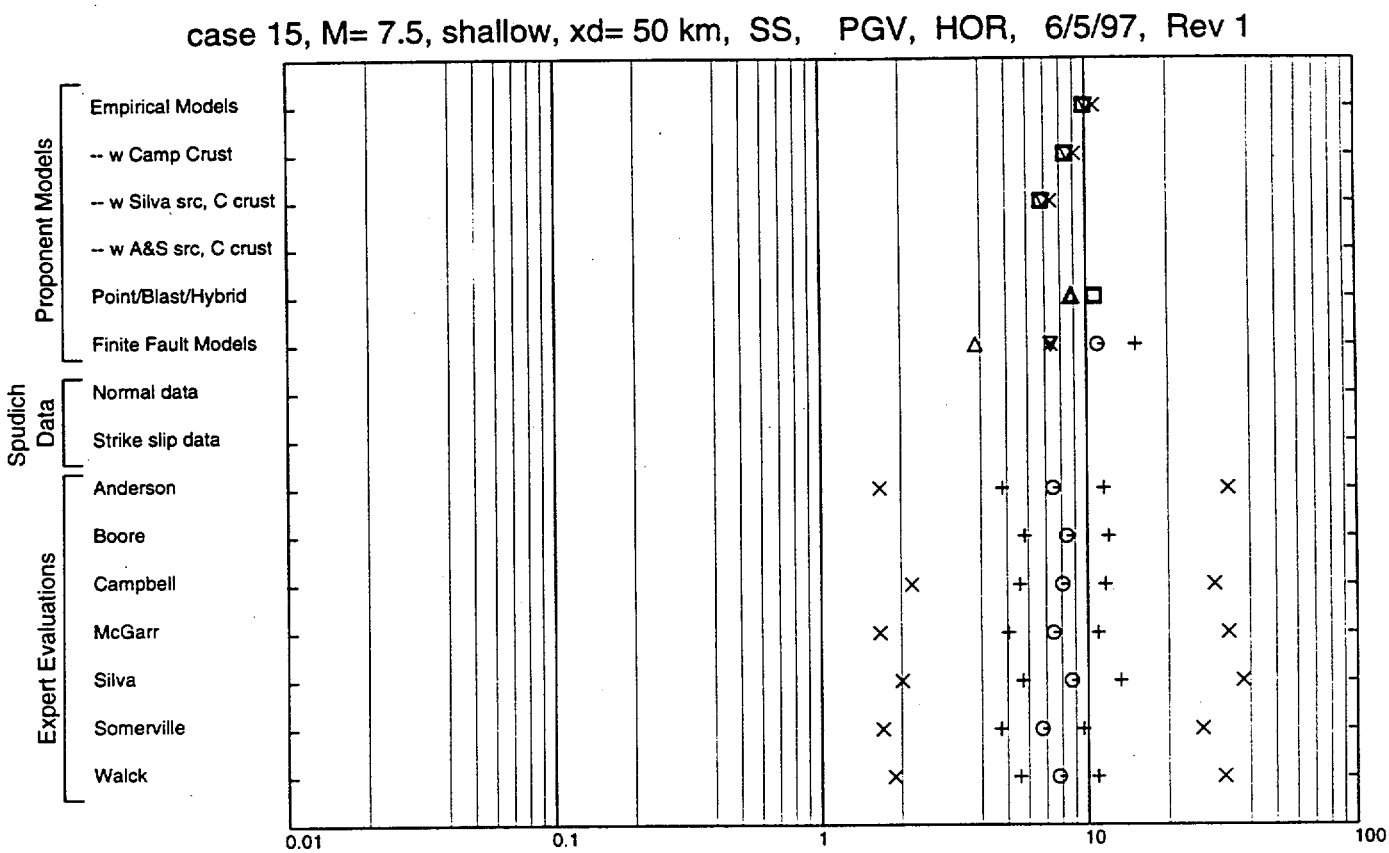
Velocity (cm/s)

LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

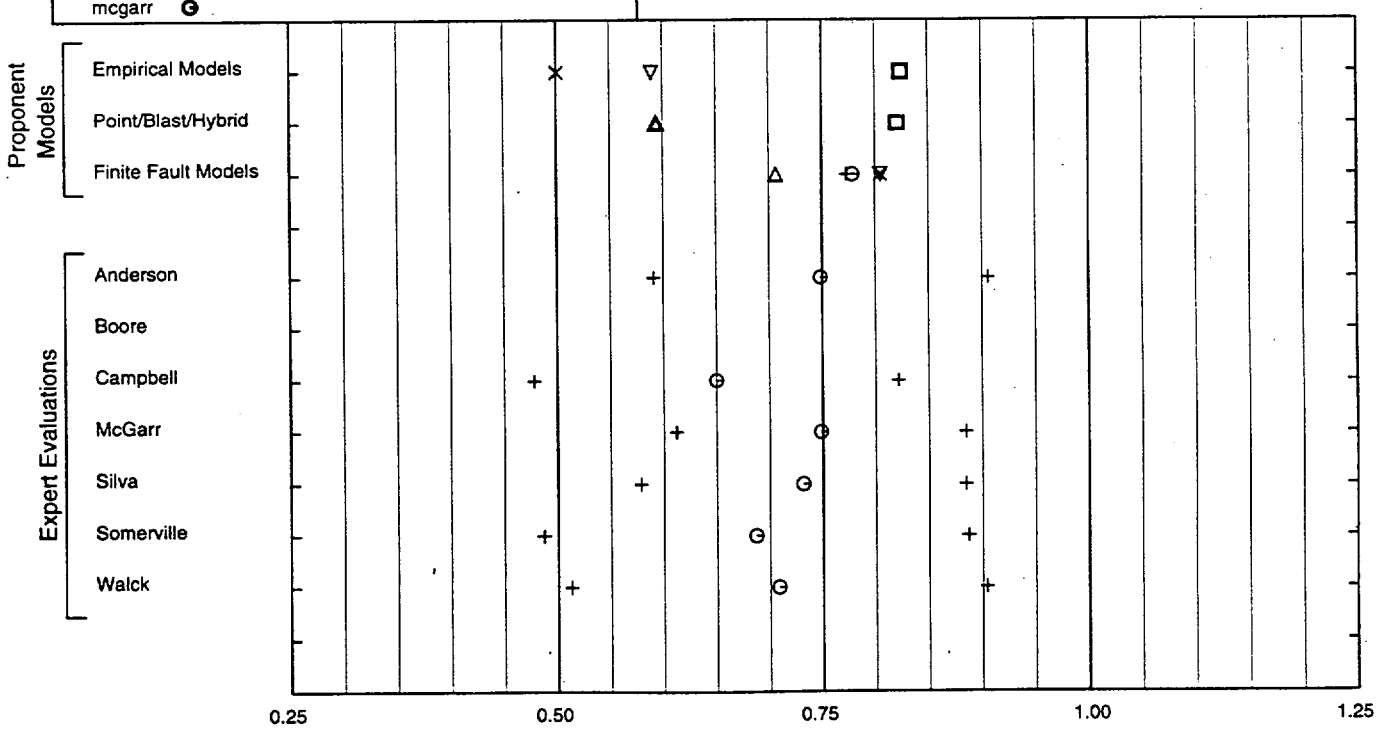


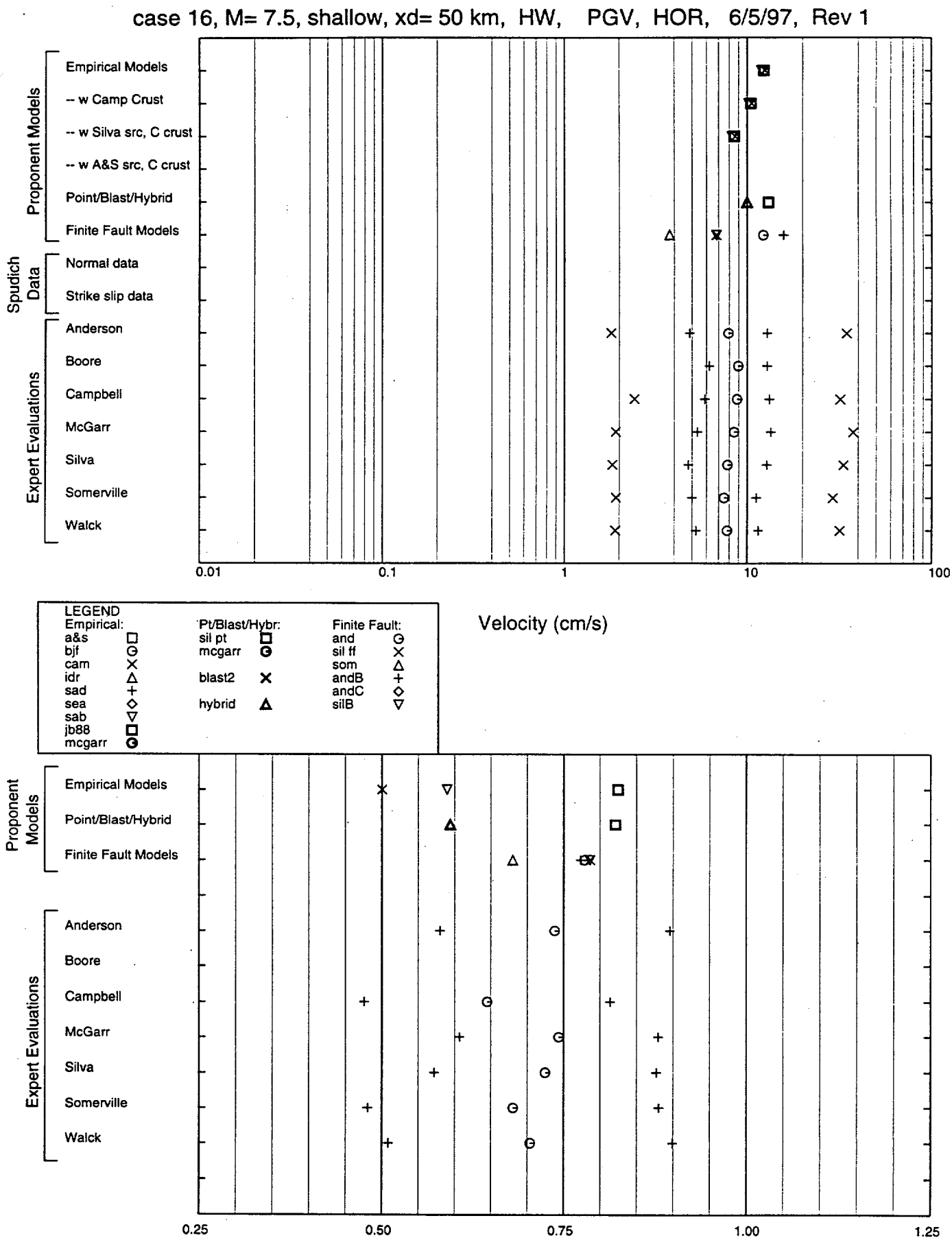
Aleatory Sigma (LN units) w/ Comp Var.



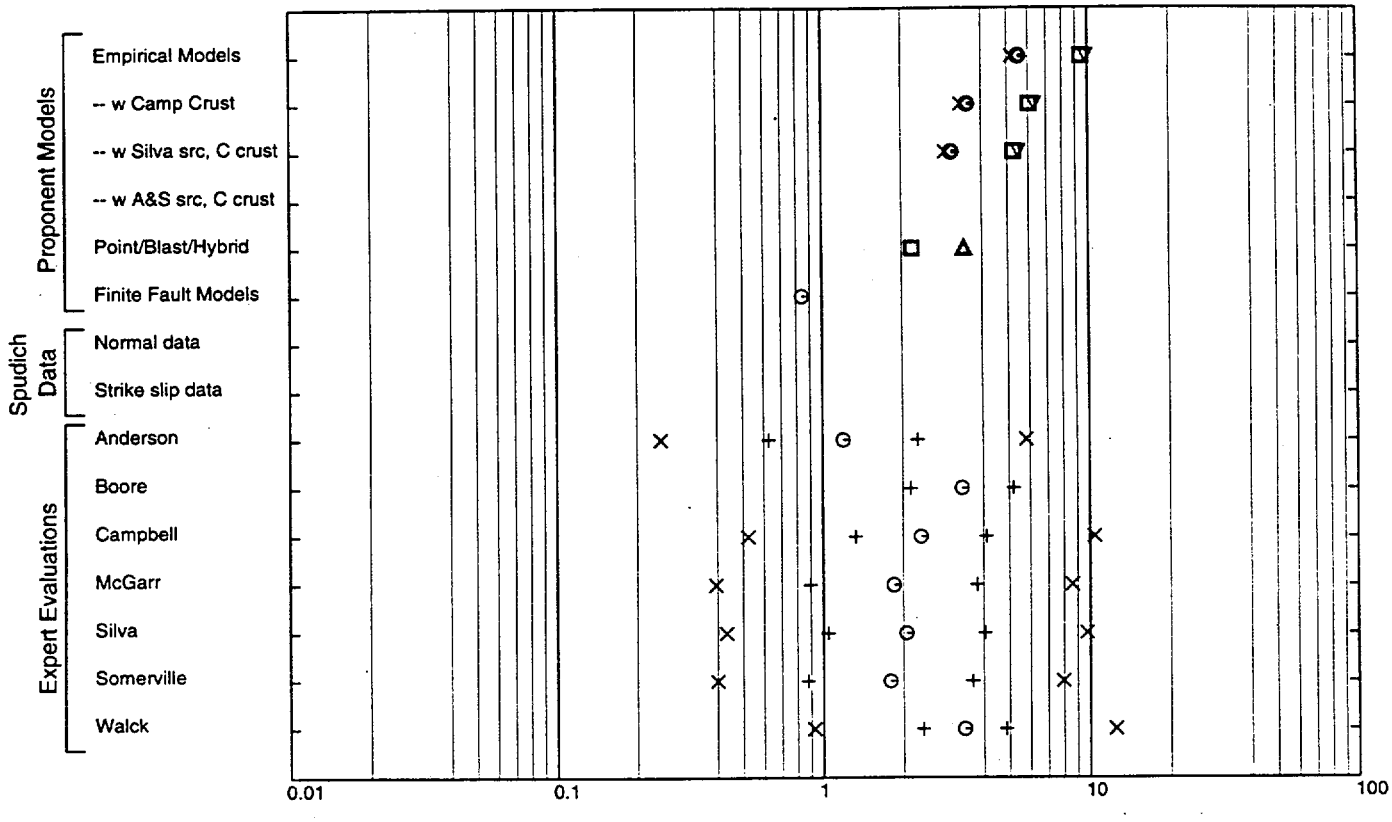
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



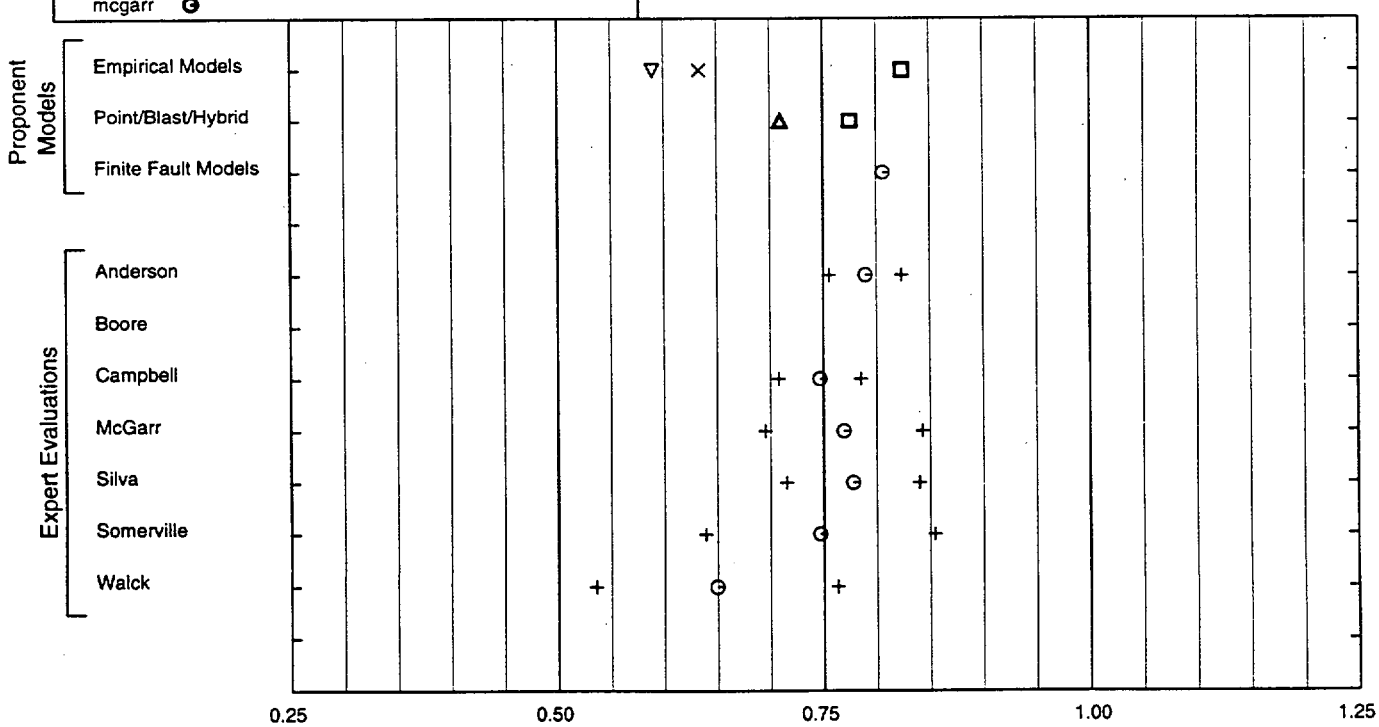

case 16, M= 7.5, shallow, xd= 50 km, HW, PGV, HOR, 6/5/97, Rev 1
Proponent Models
Empirical Models
-- w Camp Crust
-- w Silva src, C crust
-- w A&S src, C crust
Point/Blast/Hybrid
Finite Fault Models
Spudich Data
Normal data
Strike slip data
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.01
0.1
1
10
100
Velocity (cm/s)
LEGEND
Empirical:
a&s
bjf
cam
idr
sad
sea
sab
jb88
mcgarr
Pt/Blast/Hybr:
sil pt
mcgarr
blast2
hybrid
Finite Fault:
and
sil ff
som
andB
andC
silB
Proponent Models
Empirical Models
Point/Blast/Hybrid
Finite Fault Models
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.25
0.50
0.75
1.00
1.25
Aleatory Sigma (LN units) w/ Comp Var.

case 17, M= 5.0, deep, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

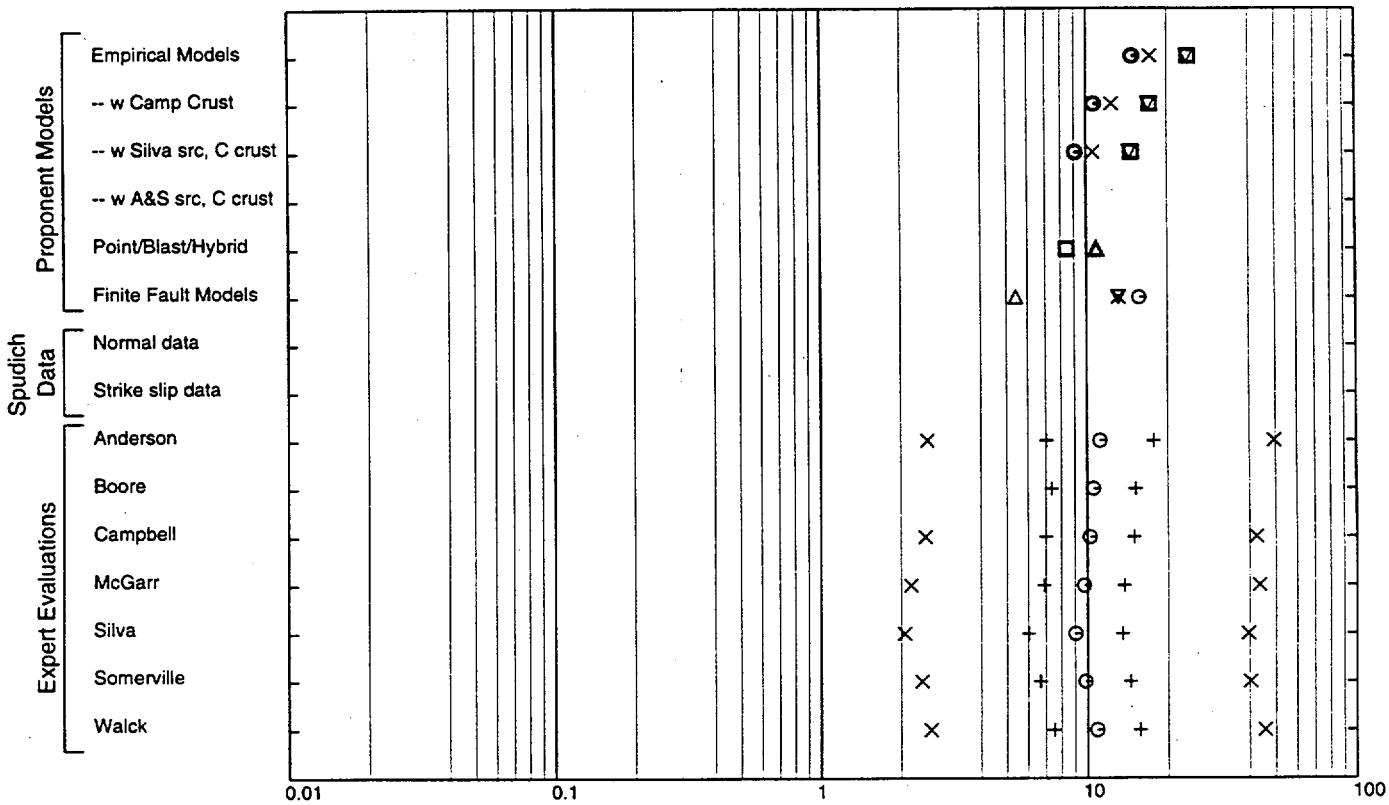


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

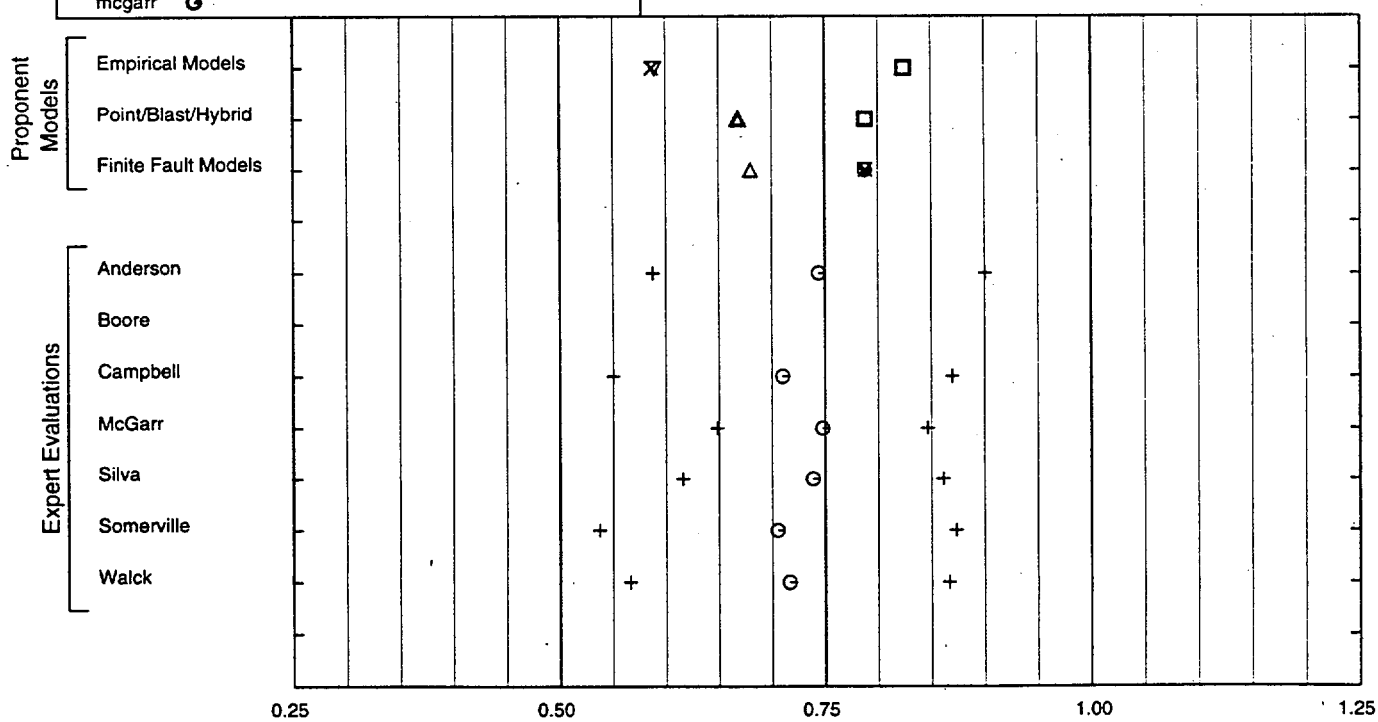


case 18, M= 5.8, deep, xd= 5 km, HW, PGV, HOR, 6/5/97, Rev 1

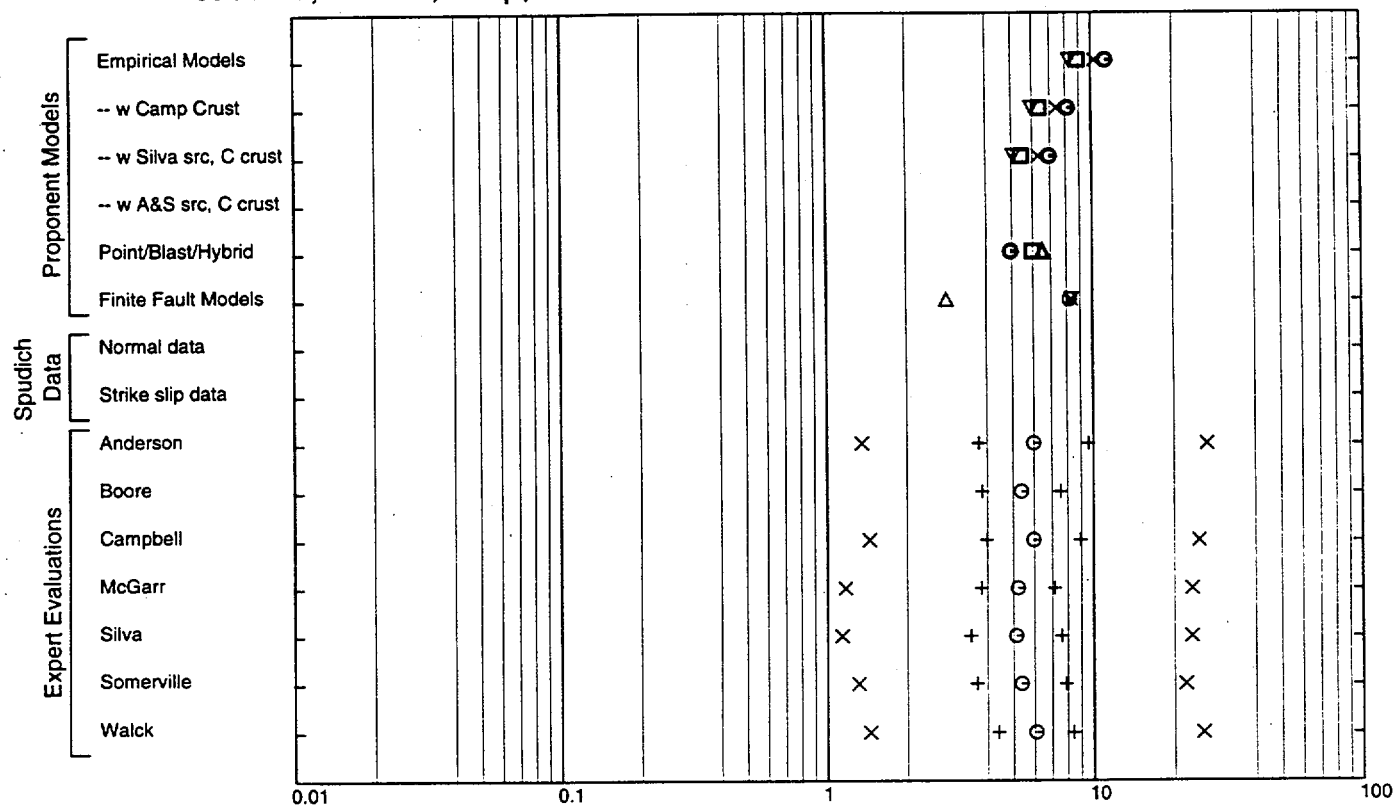


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

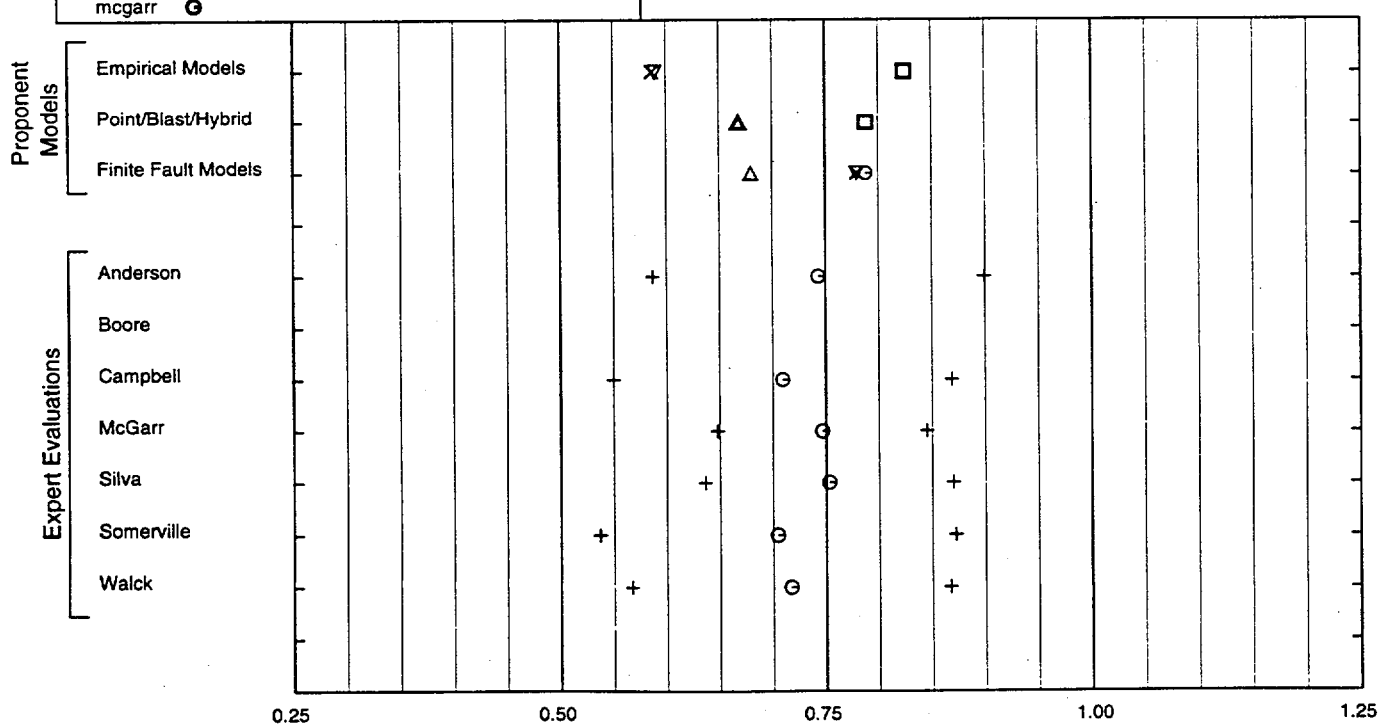


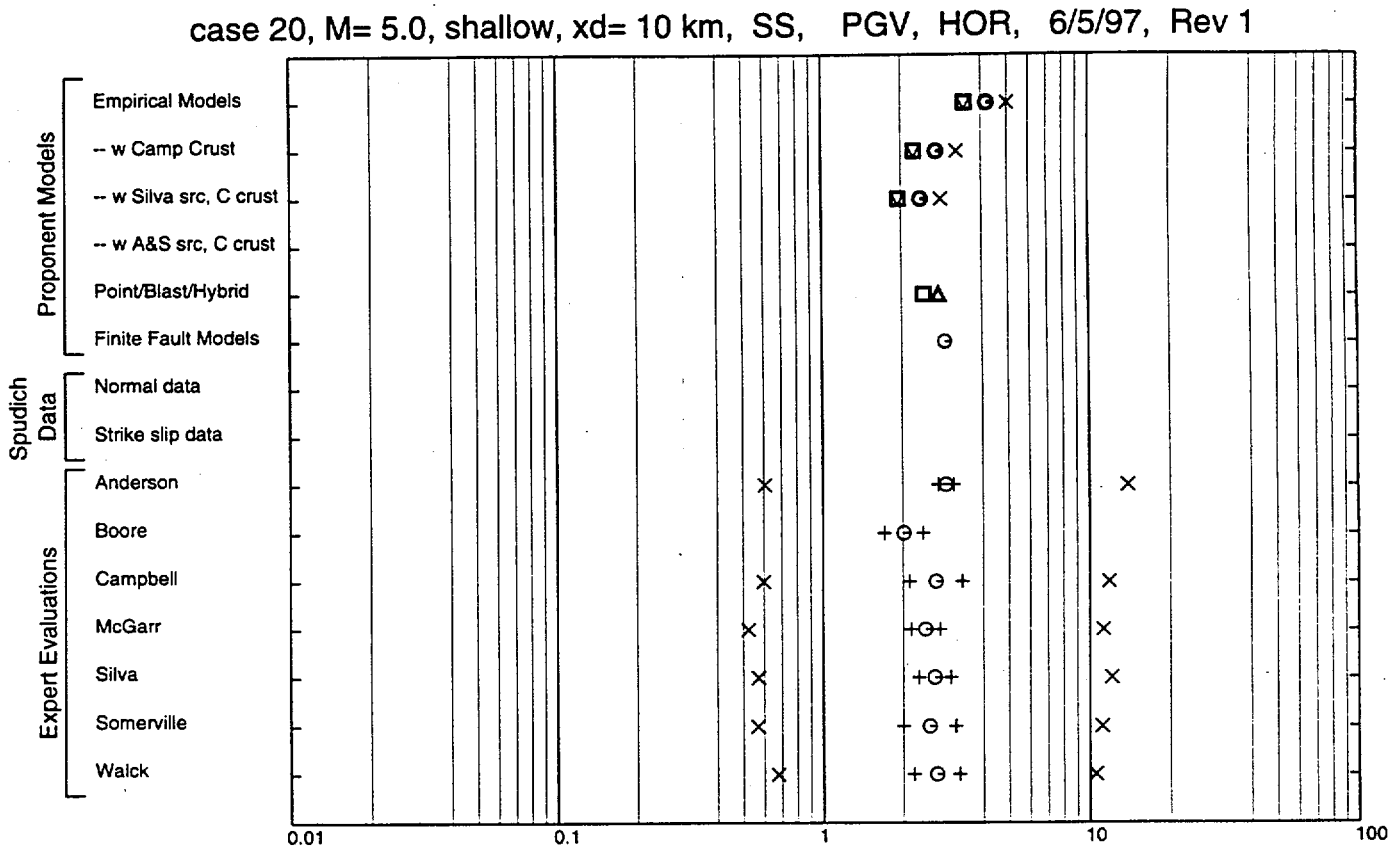
case 19, M= 5.8, deep, xd= -5 km, FW, PGV, HOR, 6/5/97, Rev 1



LEGEND

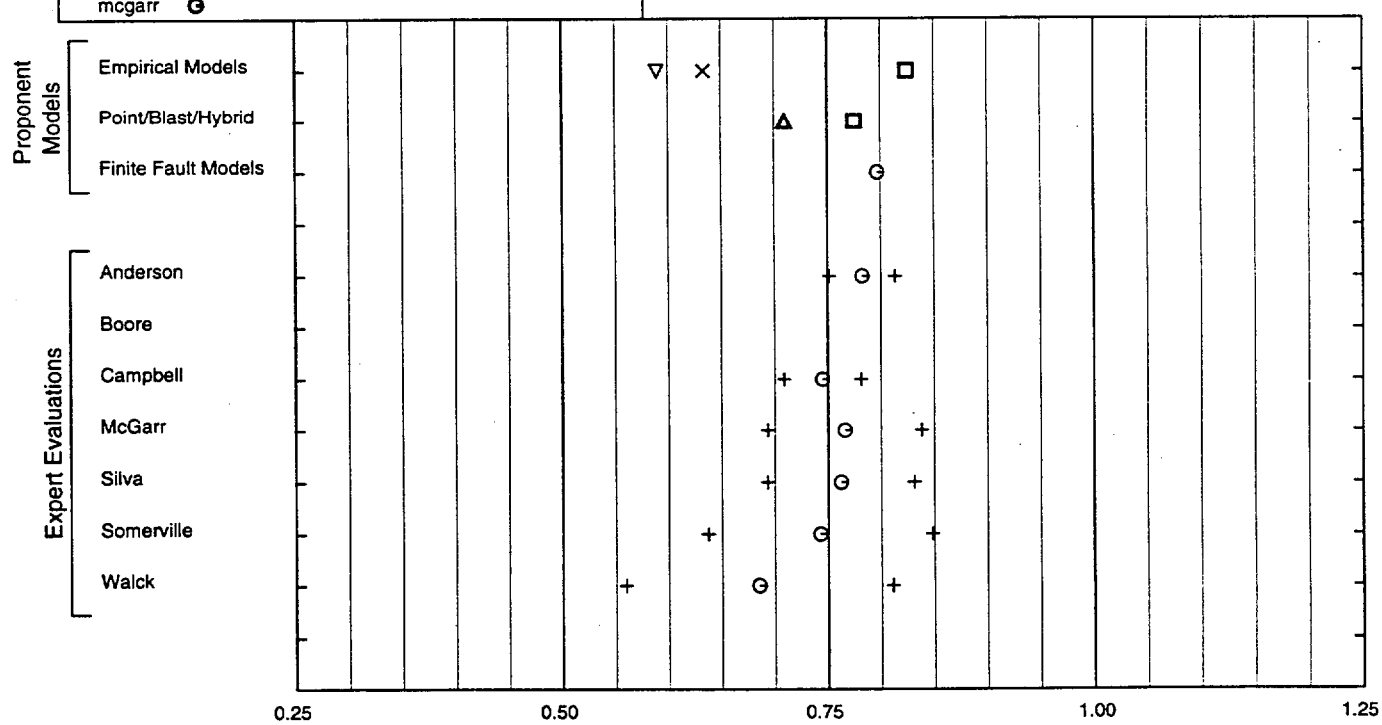
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



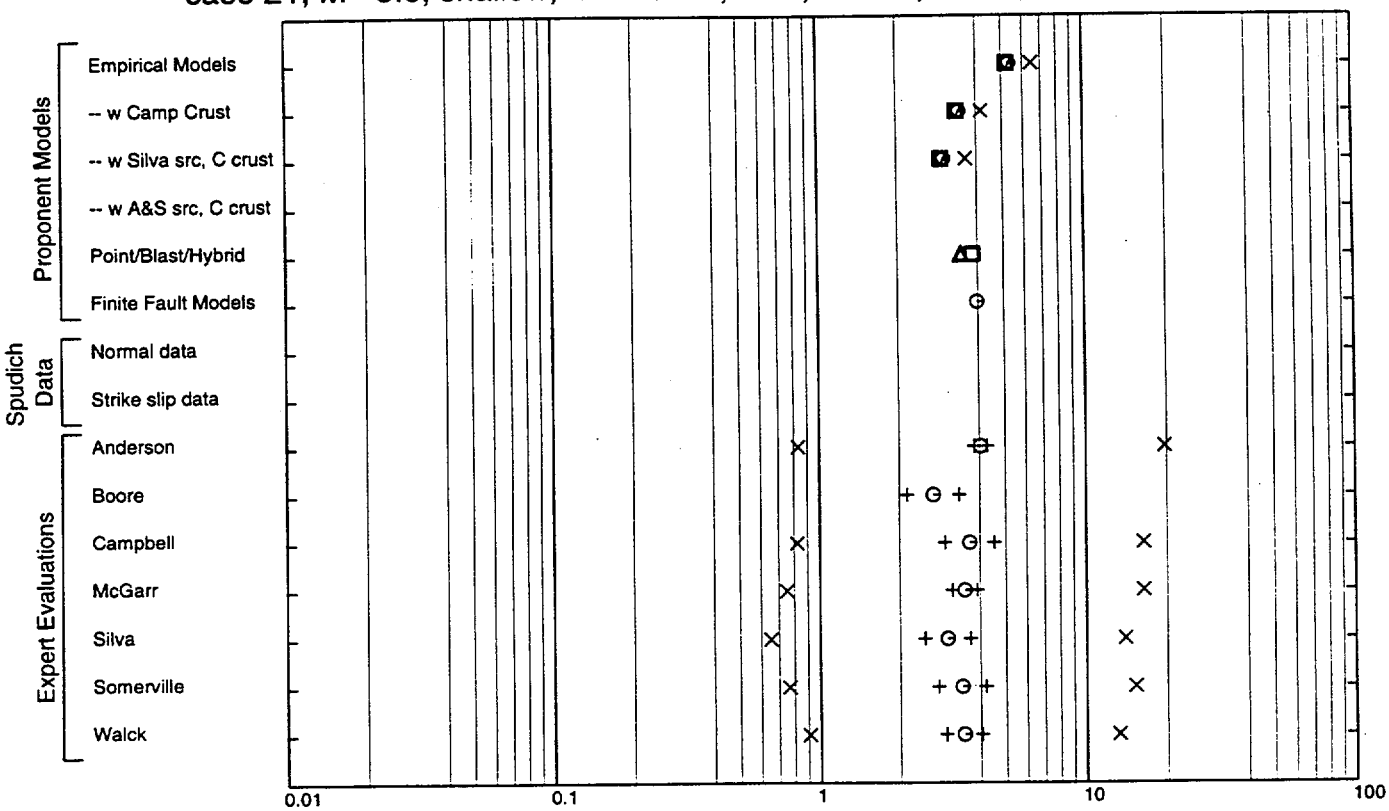


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

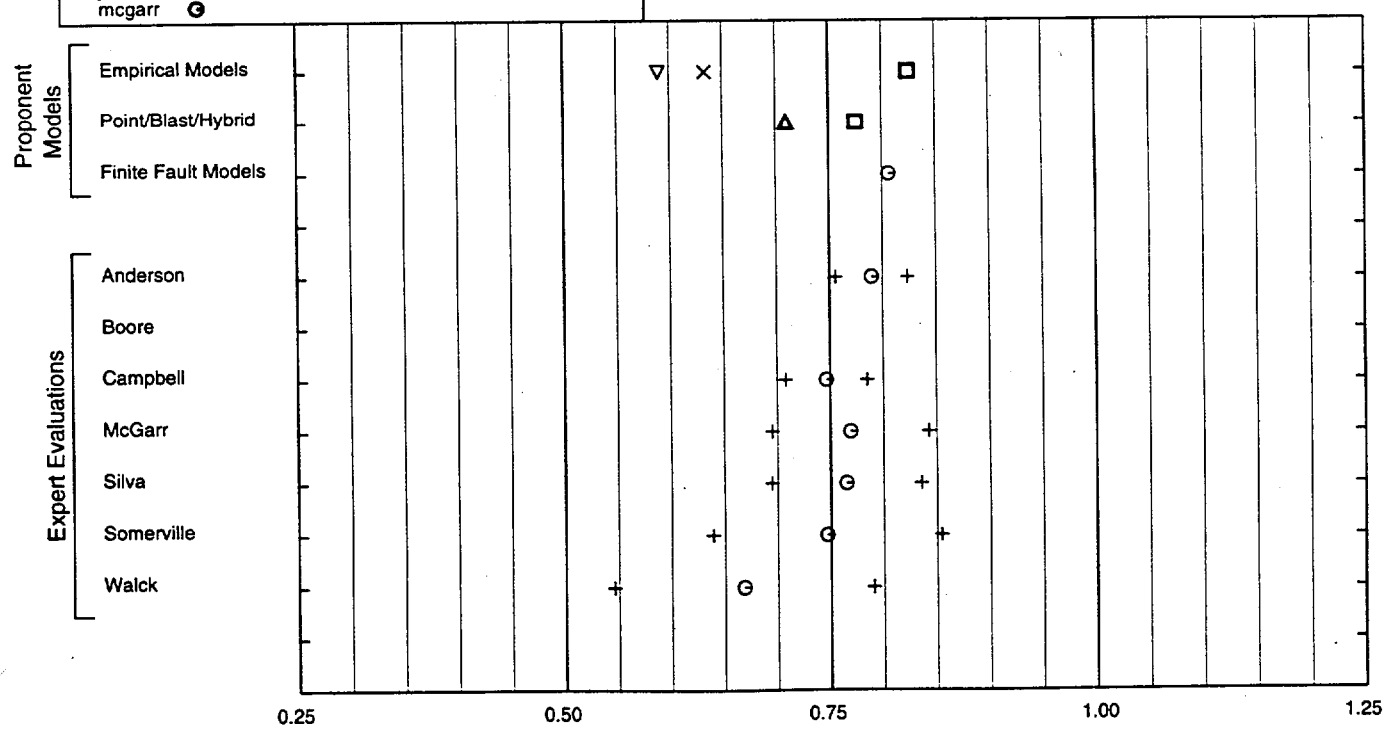


case 21, M= 5.0, shallow, xd= 10 km, HW, PGV, HOR, 6/5/97, Rev 1

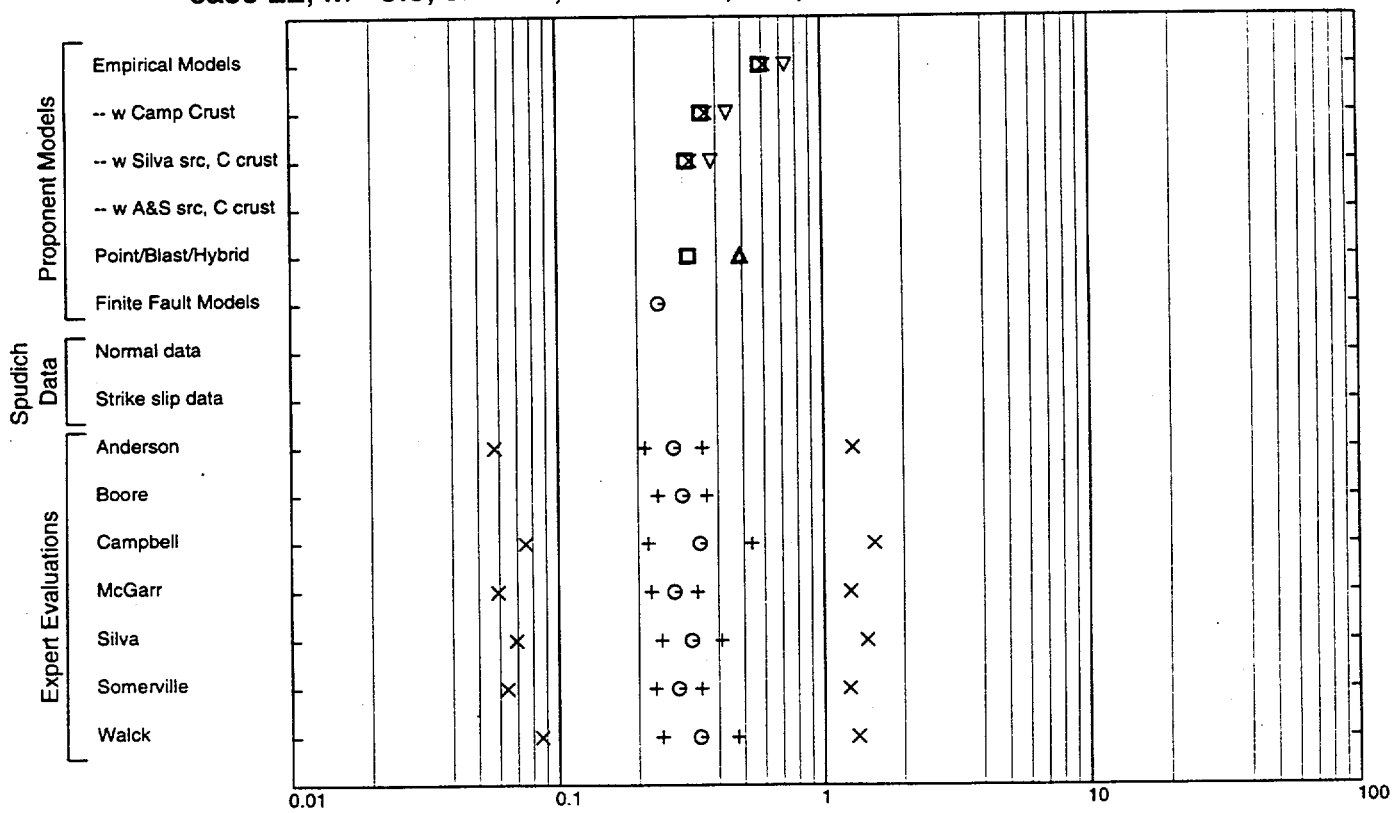


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



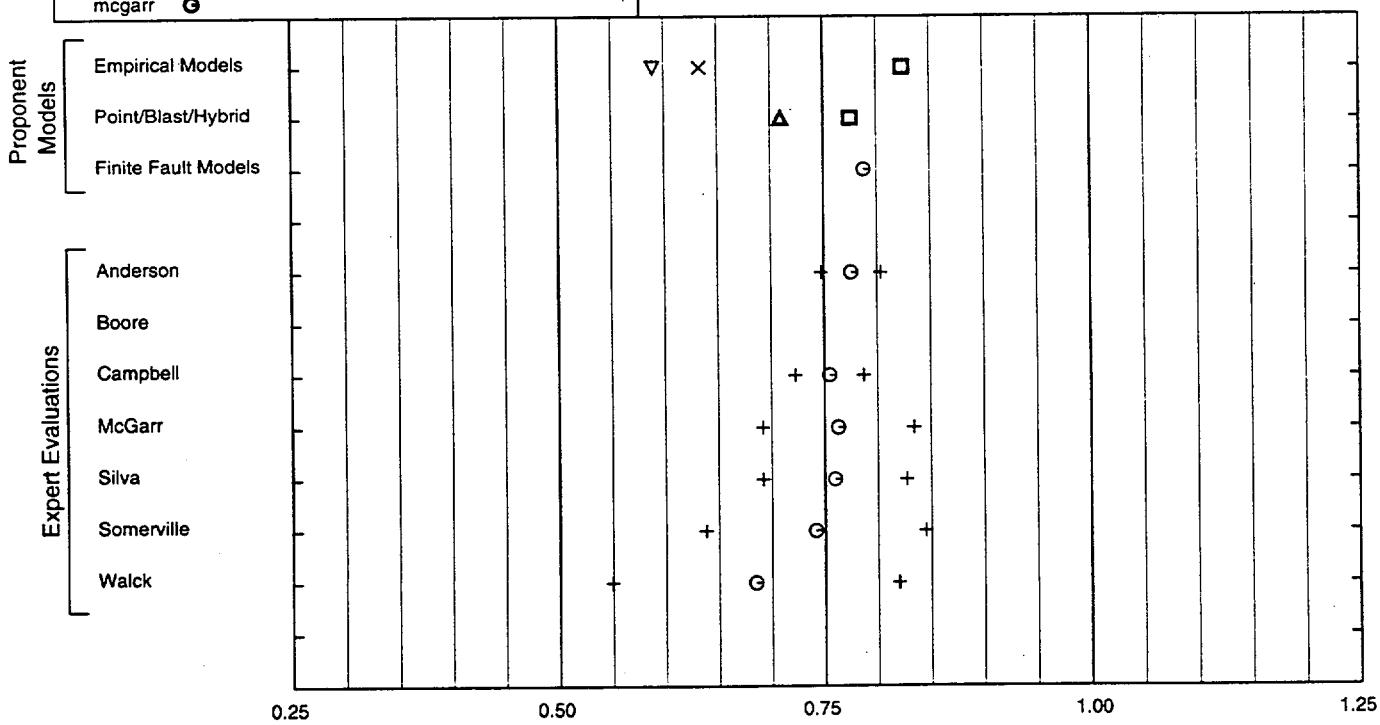
case 22, M= 5.0, shallow, xd= 50 km, SS, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

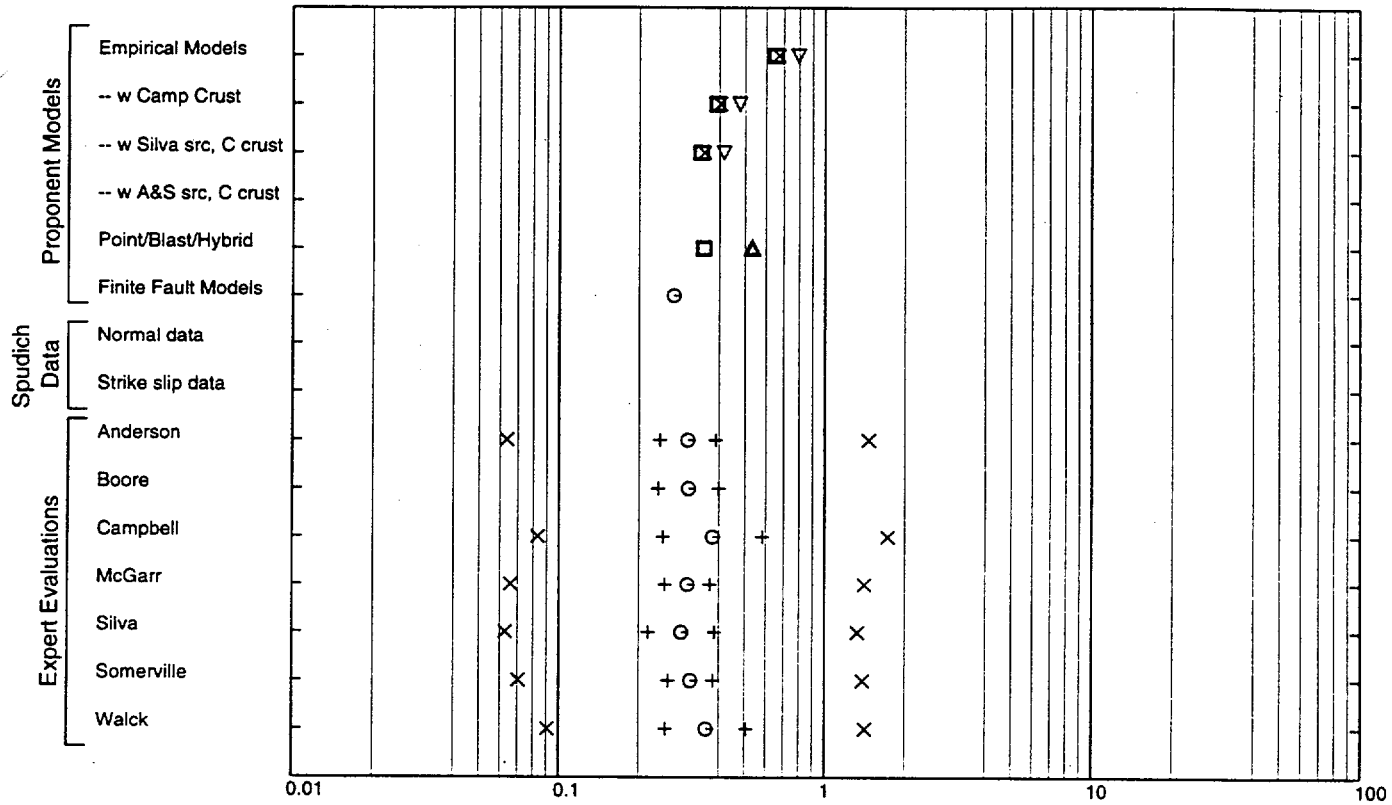
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

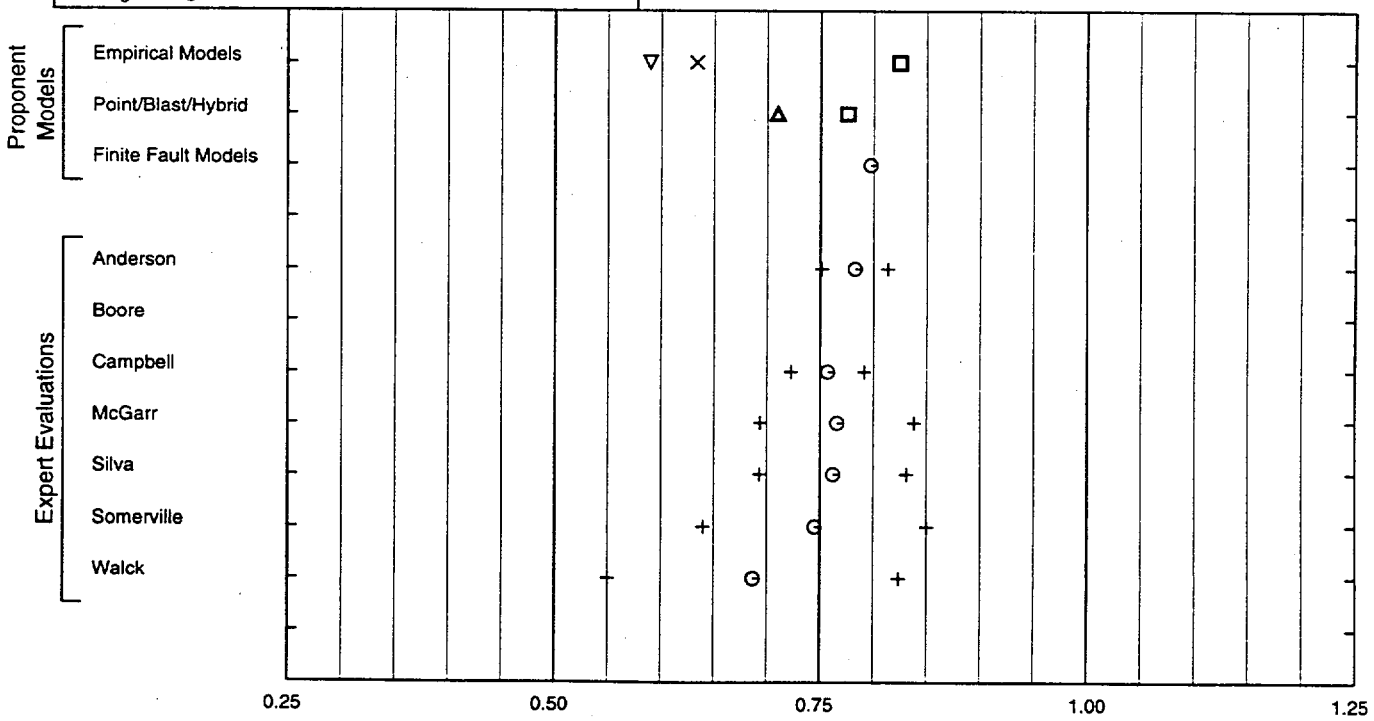
case 23, M= 5.0, shallow, xd= 50 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

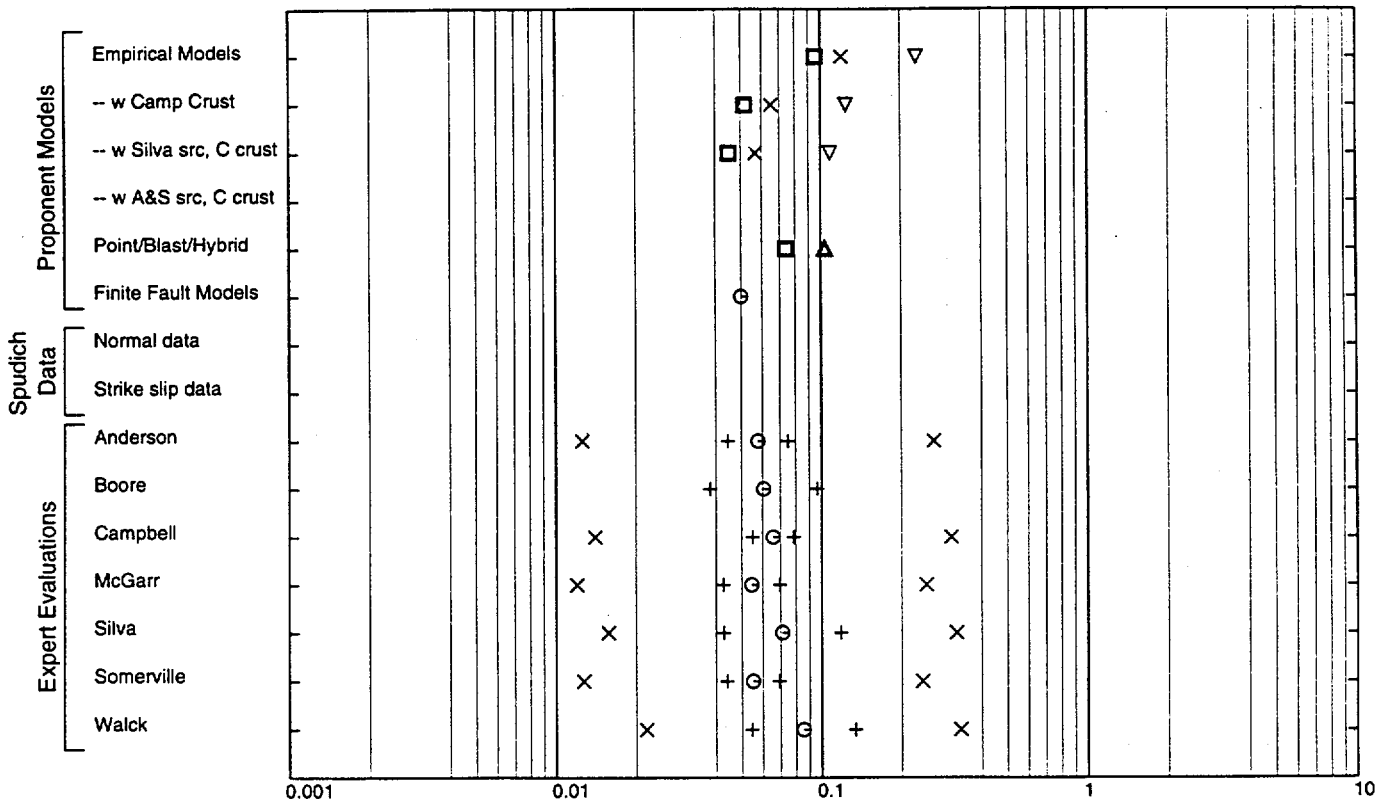
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

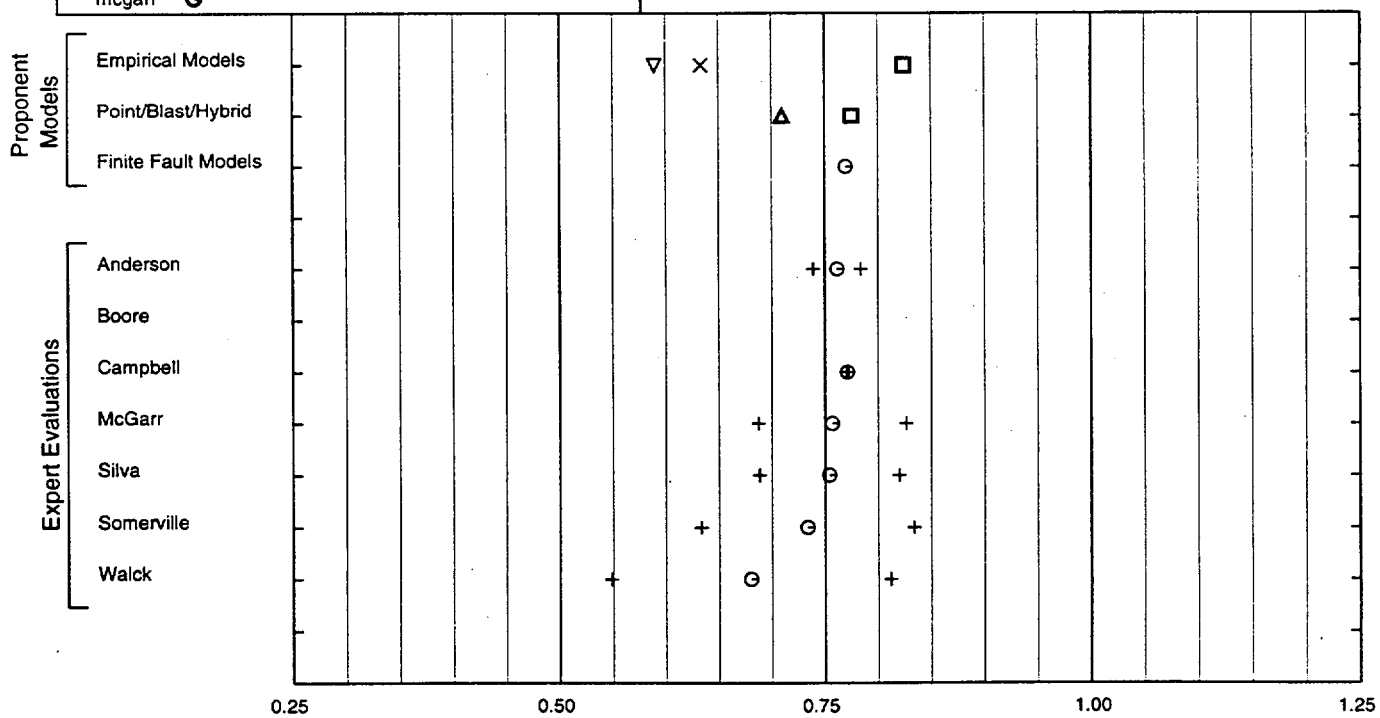
case 24, M= 5.0, shallow, xd=160 km, SS, PGV, HOR, 6/5/97, Rev 1



LEGEND

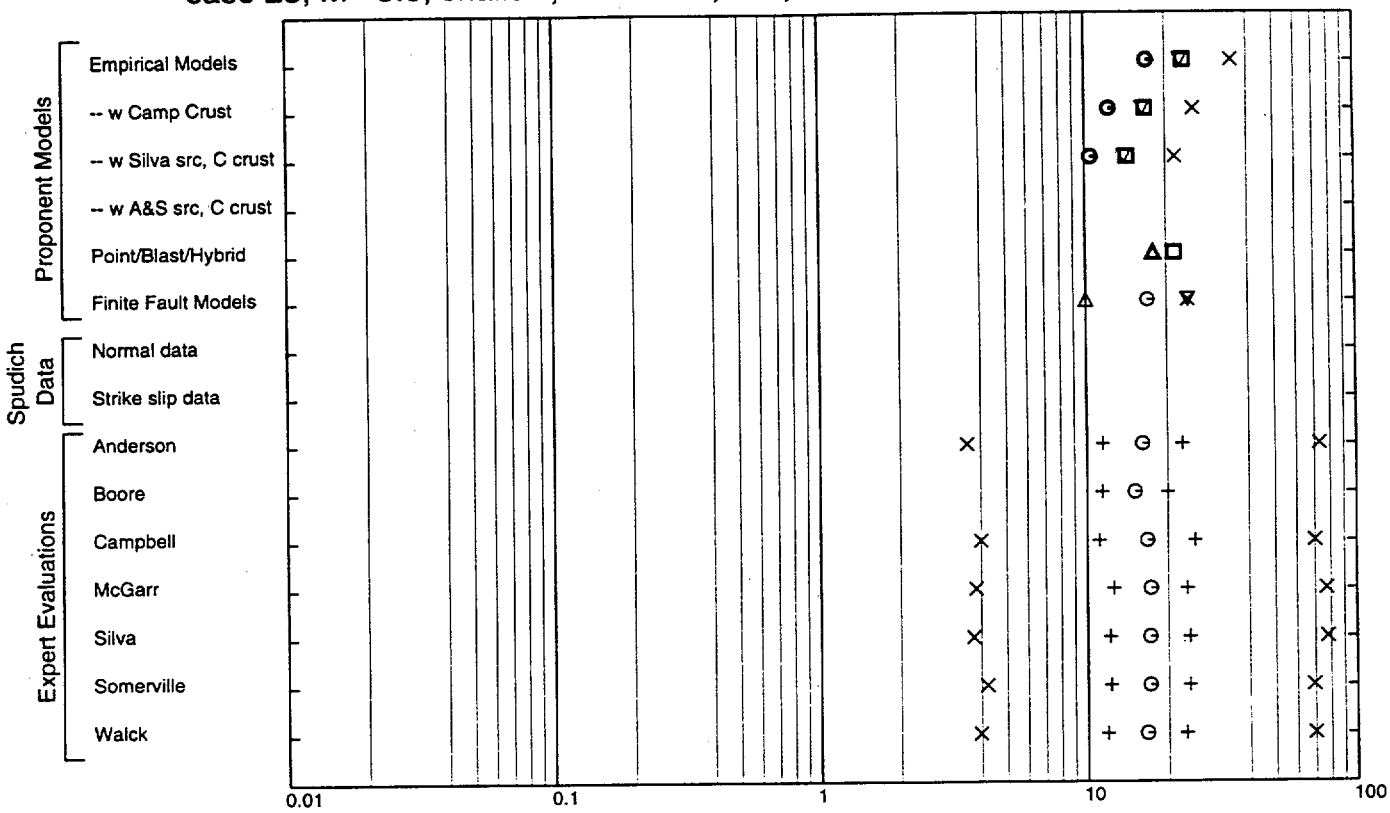
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Velocity (cm/s)



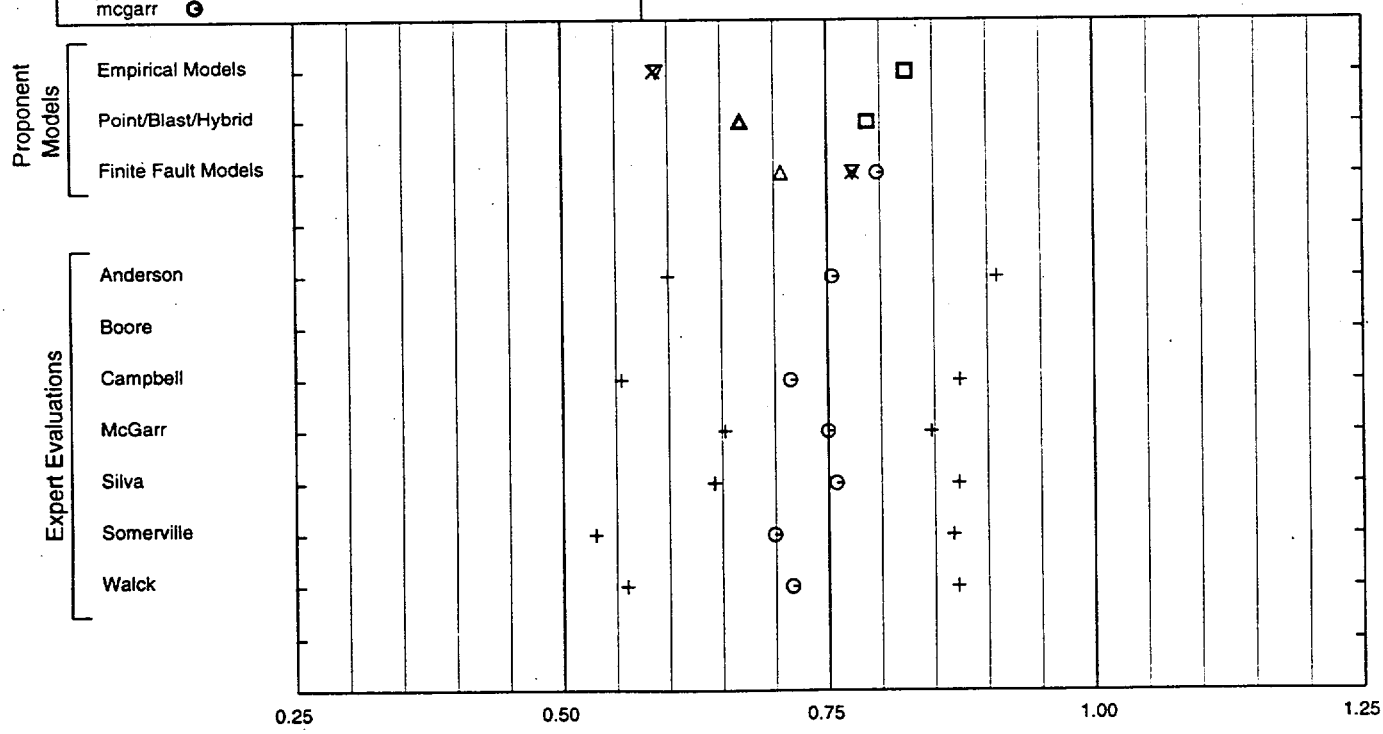
Aleatory Sigma (LN units) w/ Comp Var.

case 25, M= 5.8, shallow, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

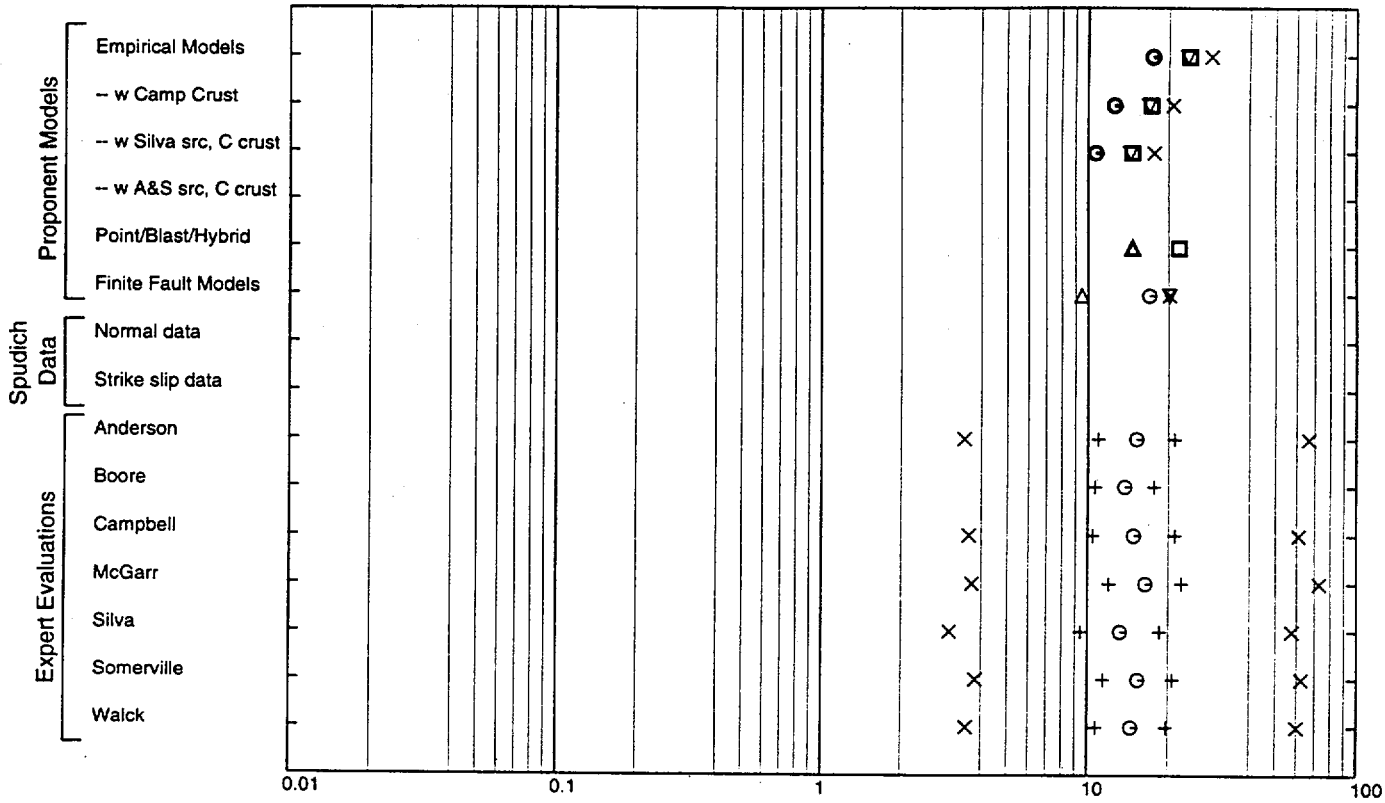


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

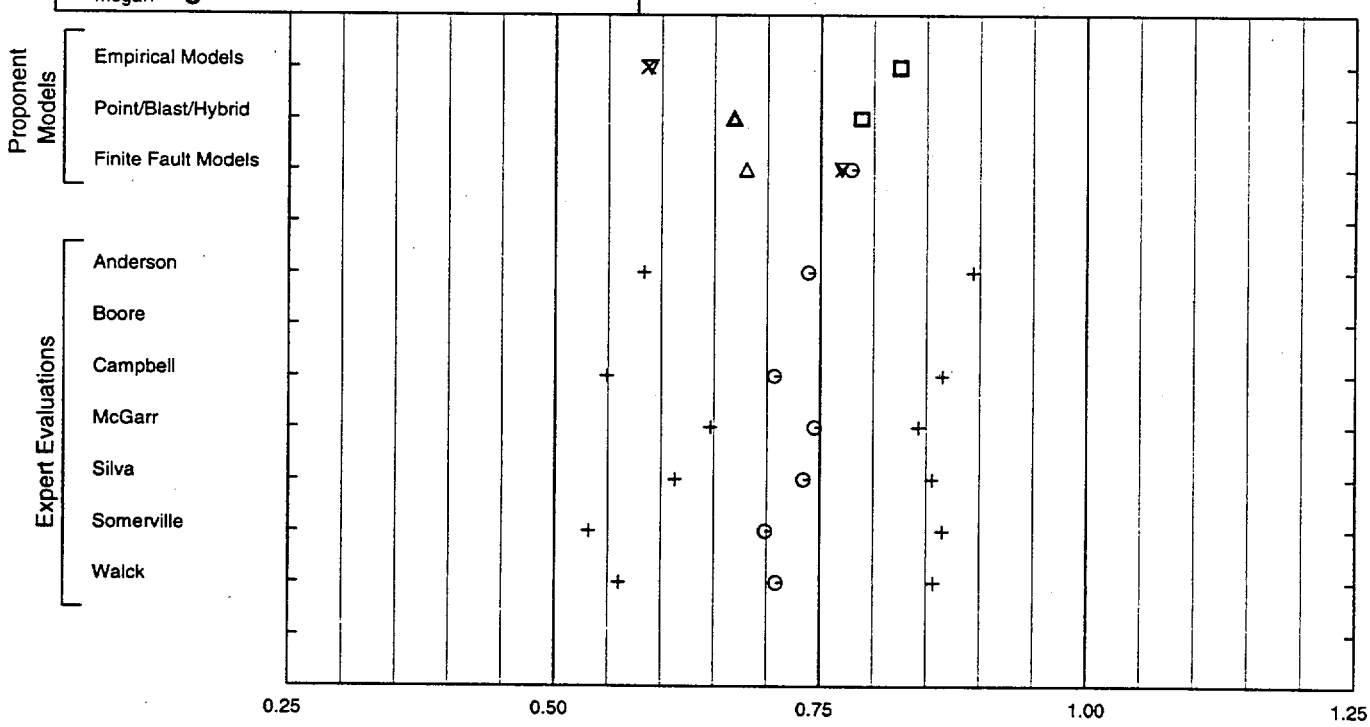


case 26, M= 5.8, shallow, xd= 5 km, HW, PGV, HOR, 6/5/97, Rev 1

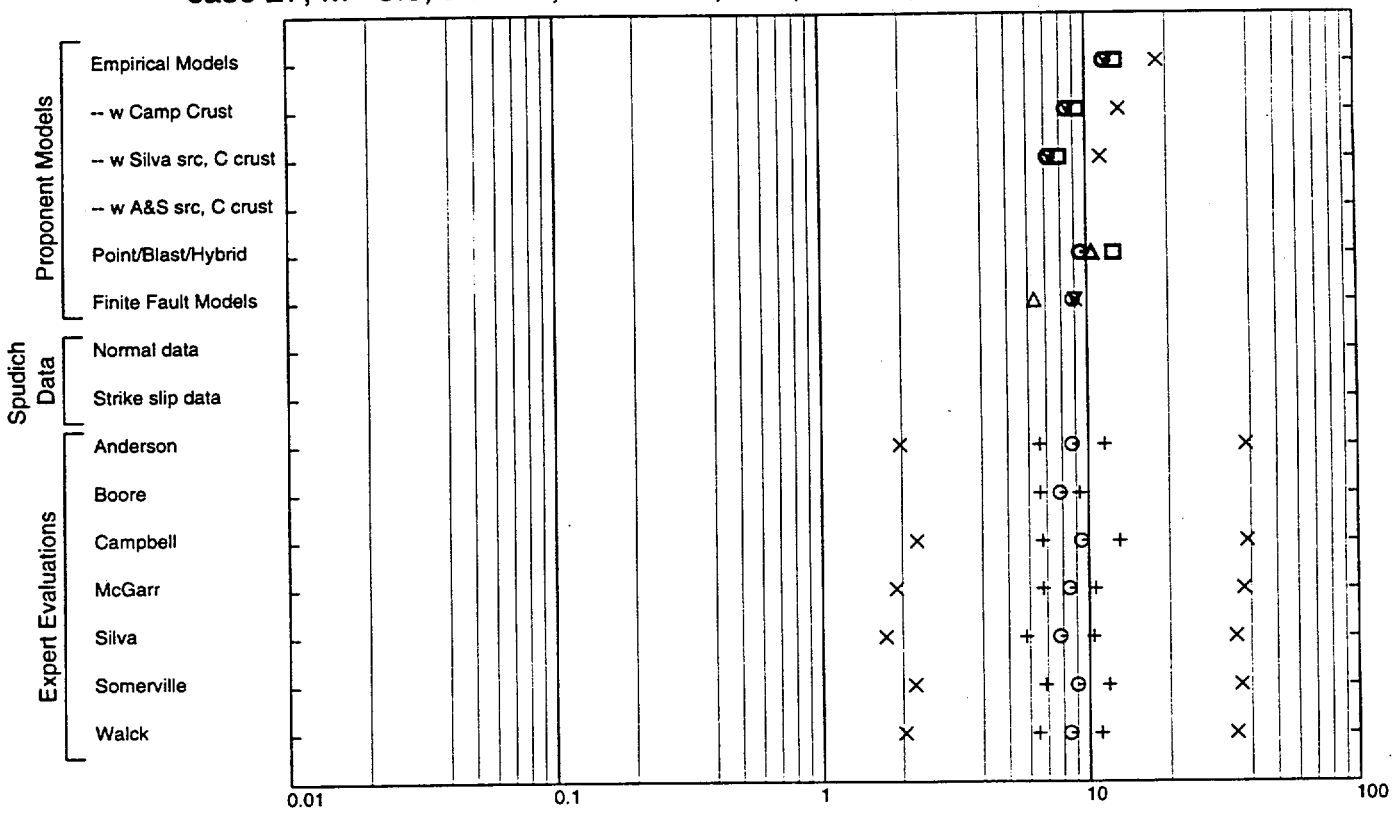


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

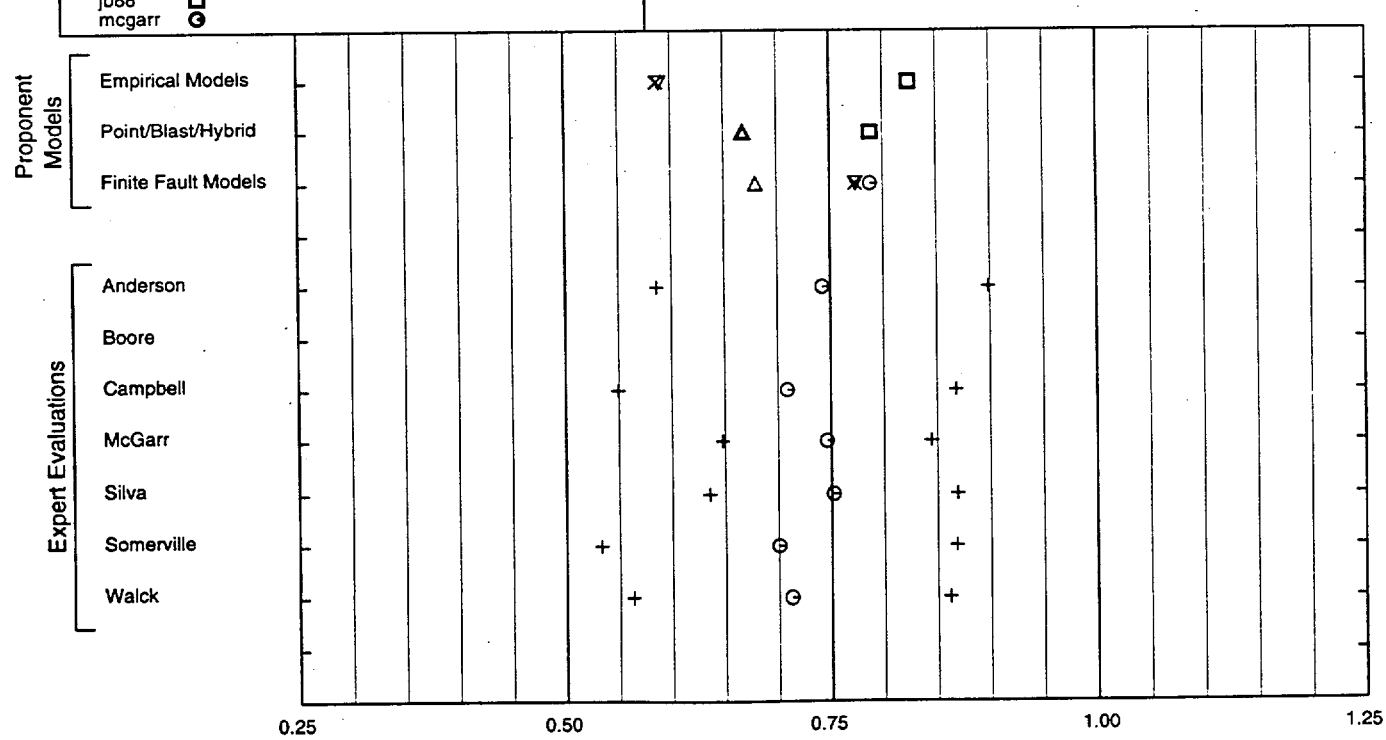


case 27, M= 5.8, shallow, xd= -5 km, FW, PGV, HOR, 6/5/97, Rev 1

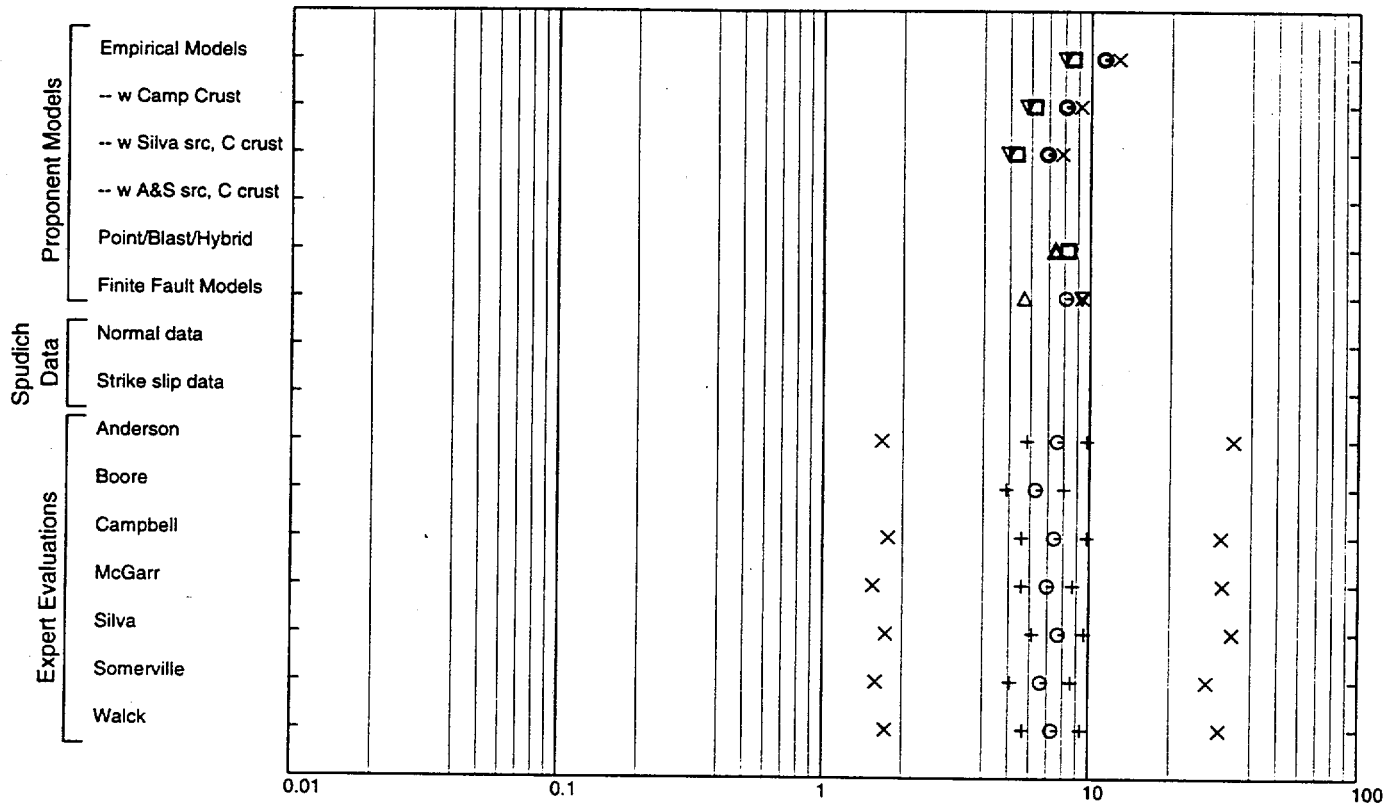


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



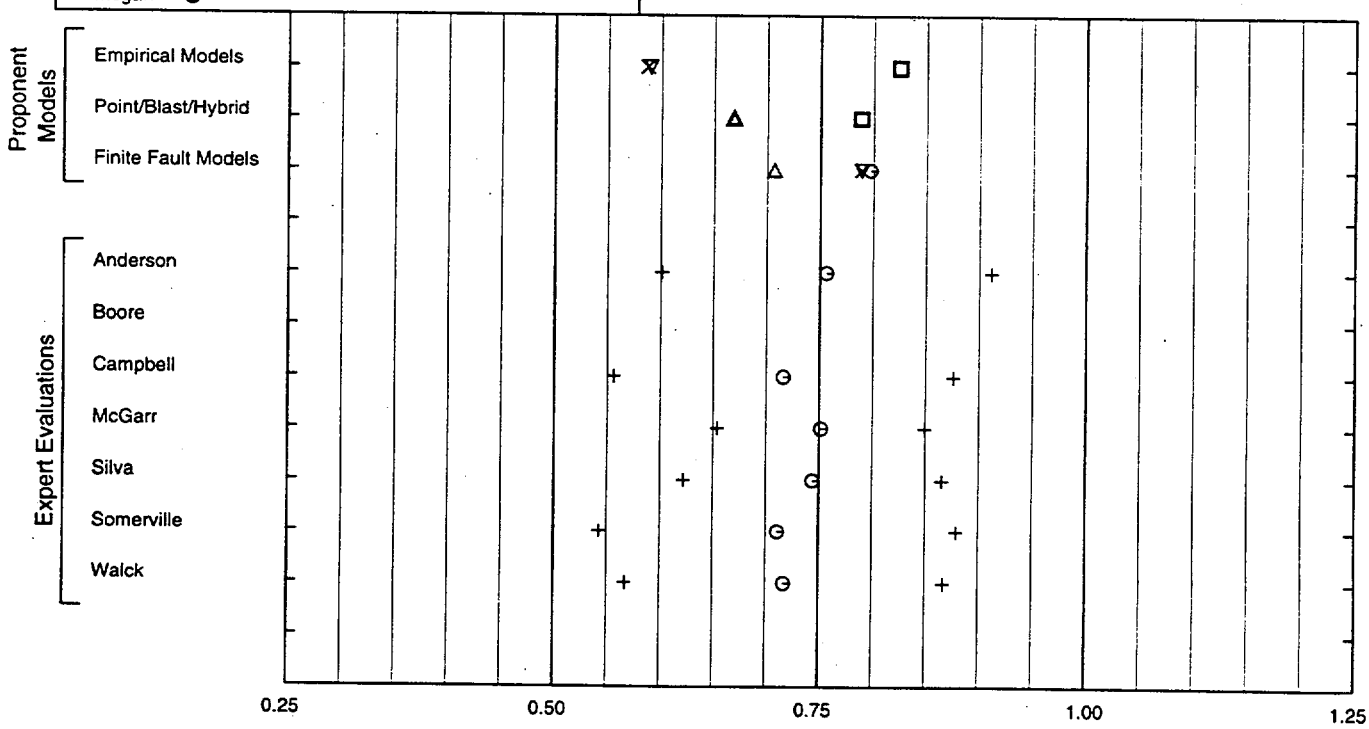
case 28, M= 5.8, shallow, xd= 10 km, SS, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

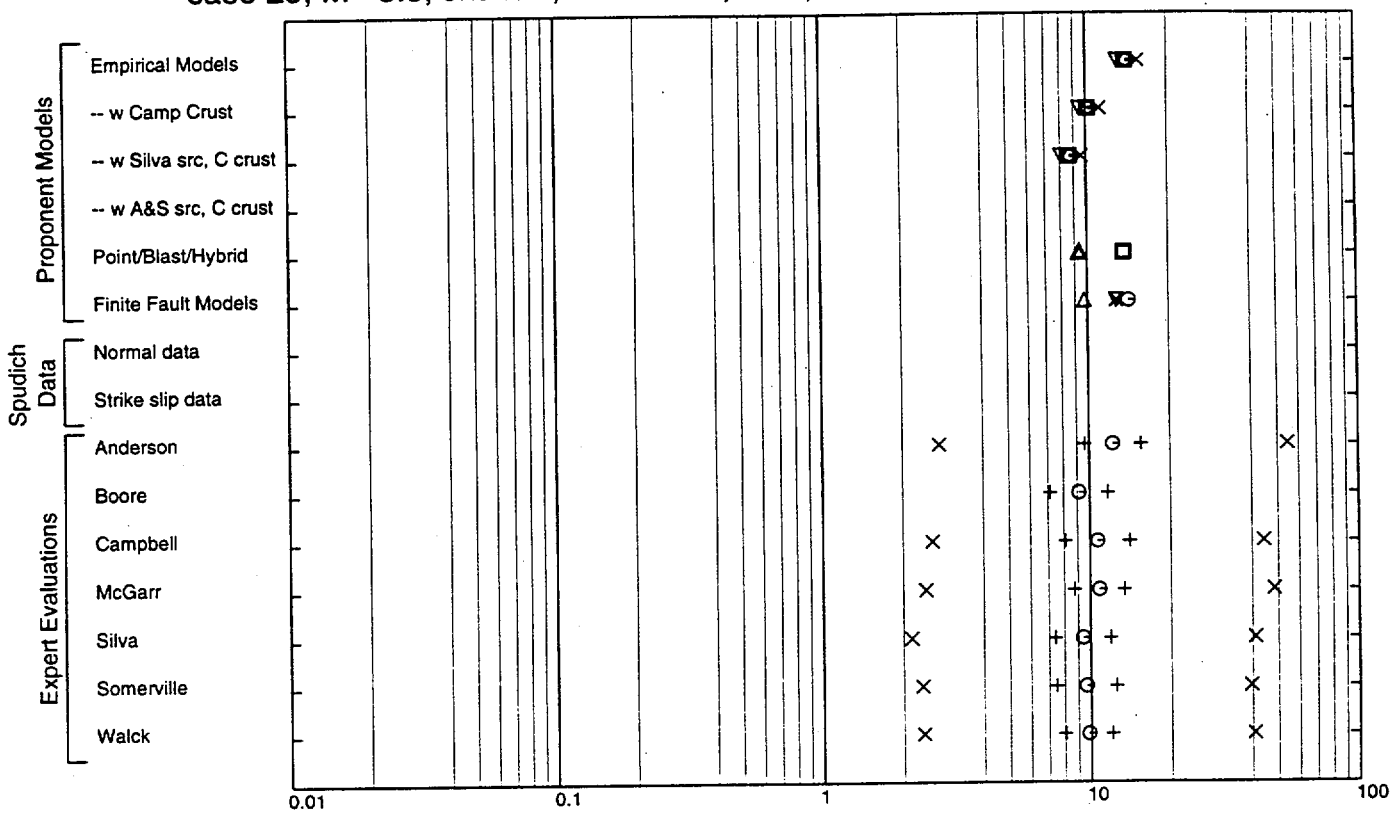
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

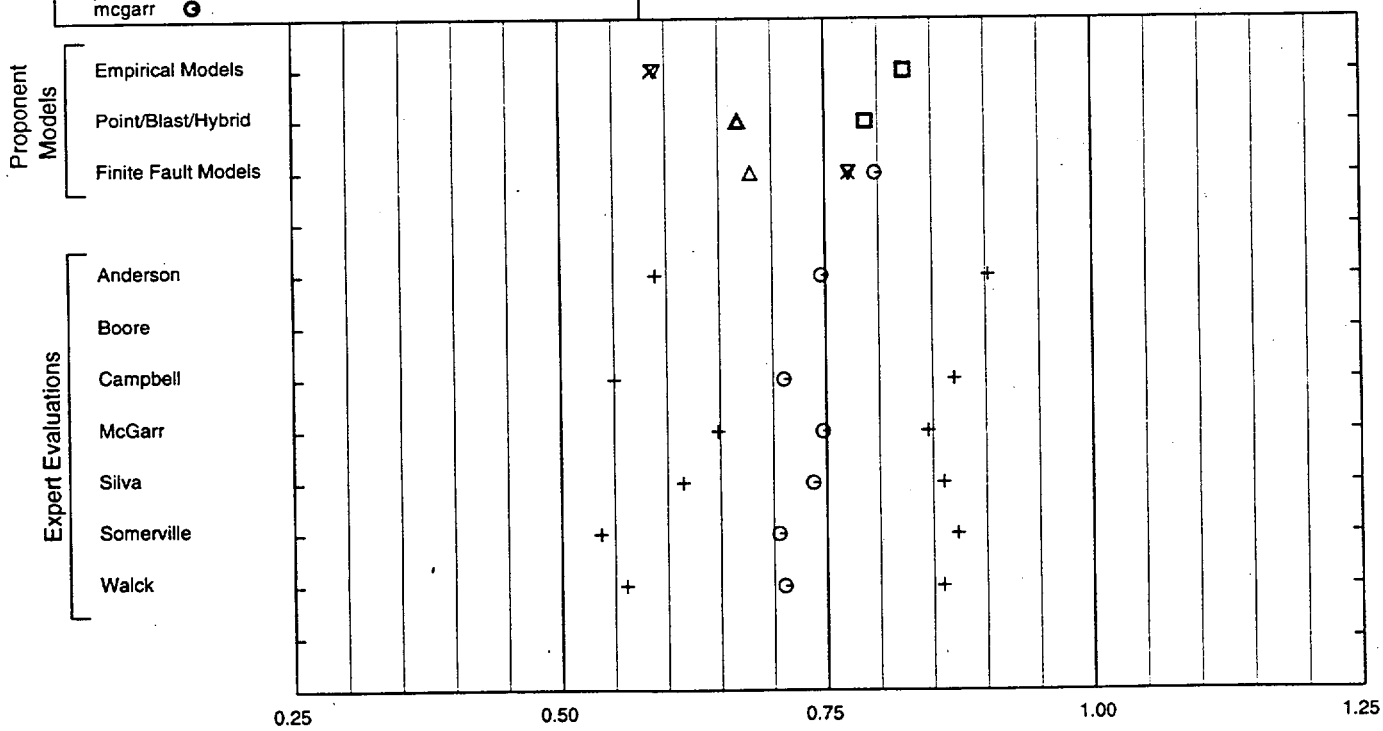
case 29, M= 5.8, shallow, xd= 10 km, HW, PGV, HOR, 6/5/97, Rev 1



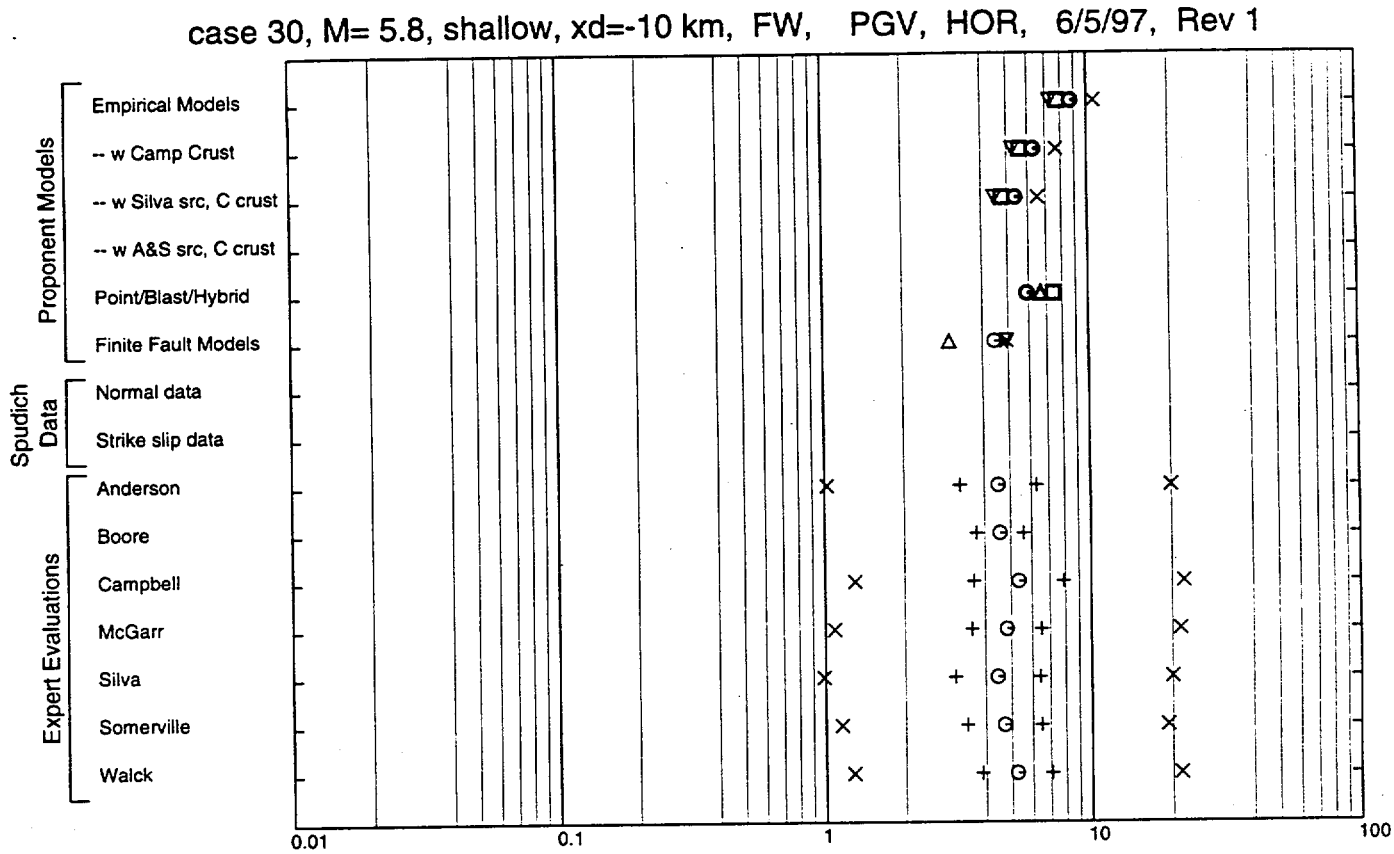
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

Velocity (cm/s)

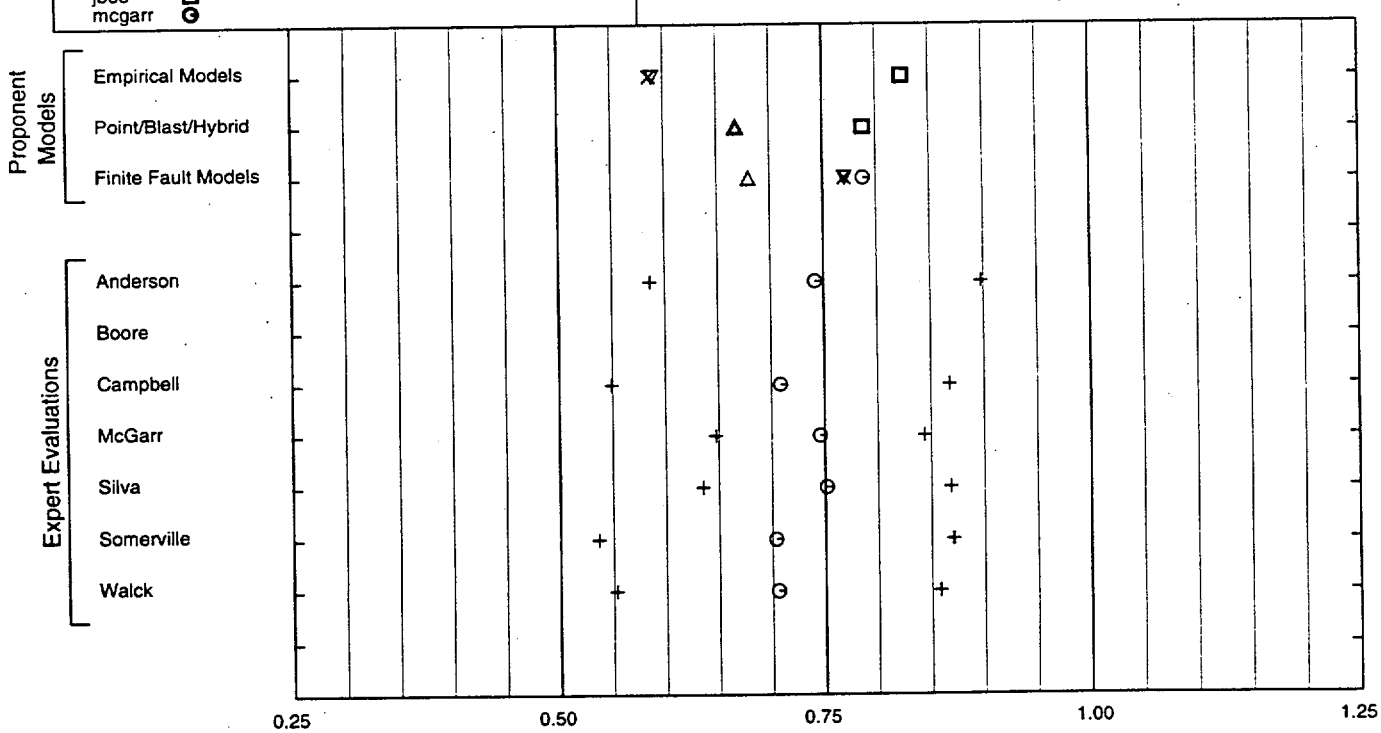


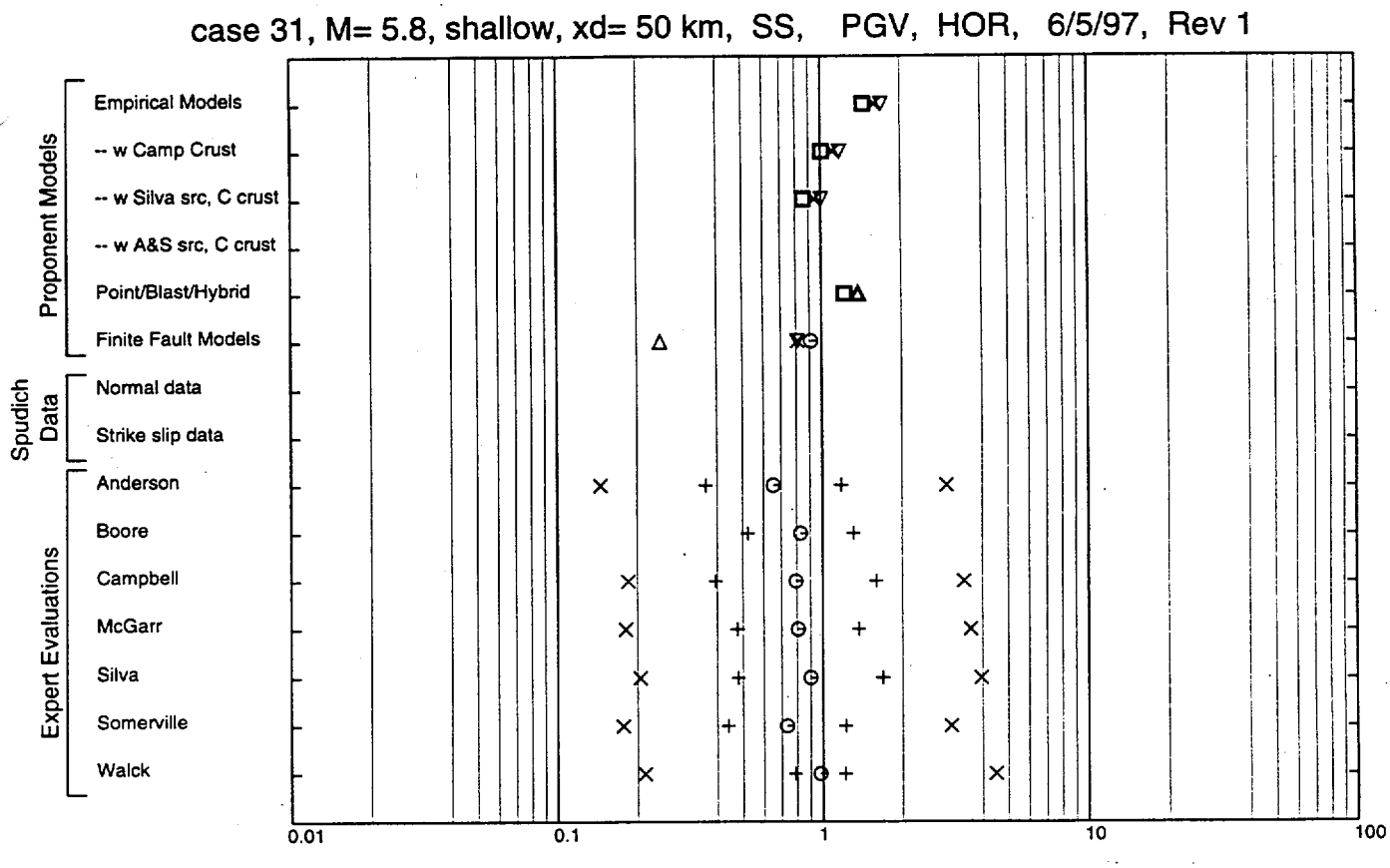
Aleatory Sigma (LN units) w/ Comp Var.



LEGEND

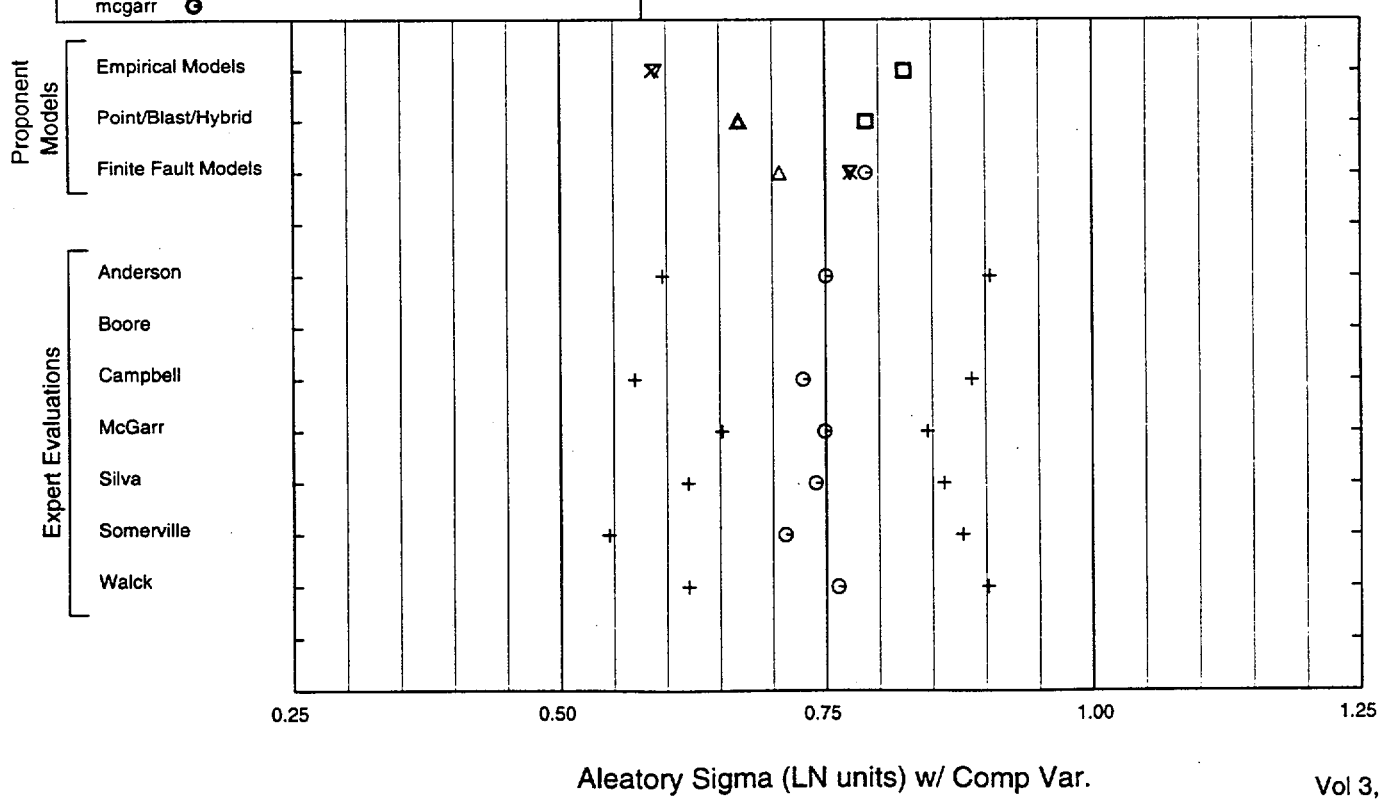
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



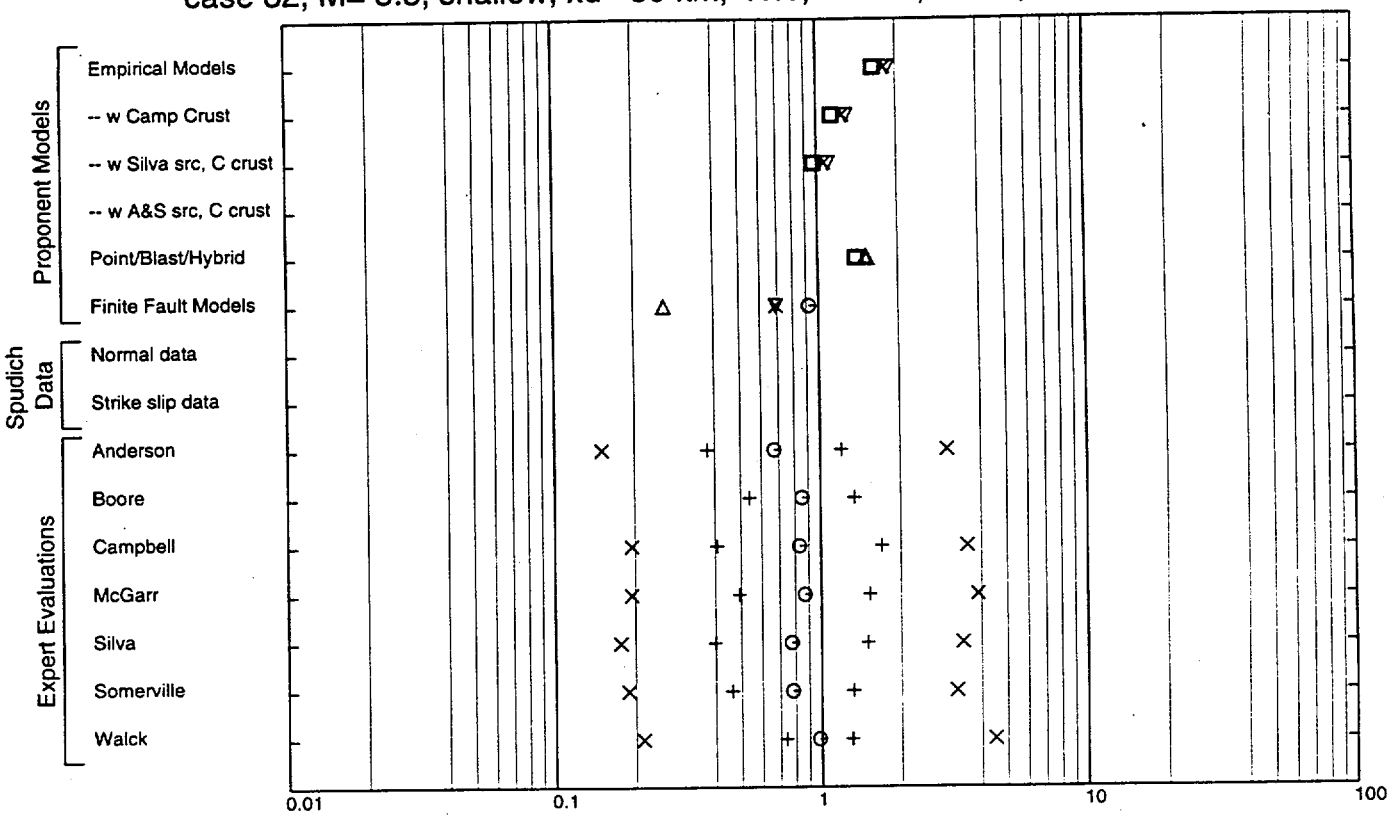


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



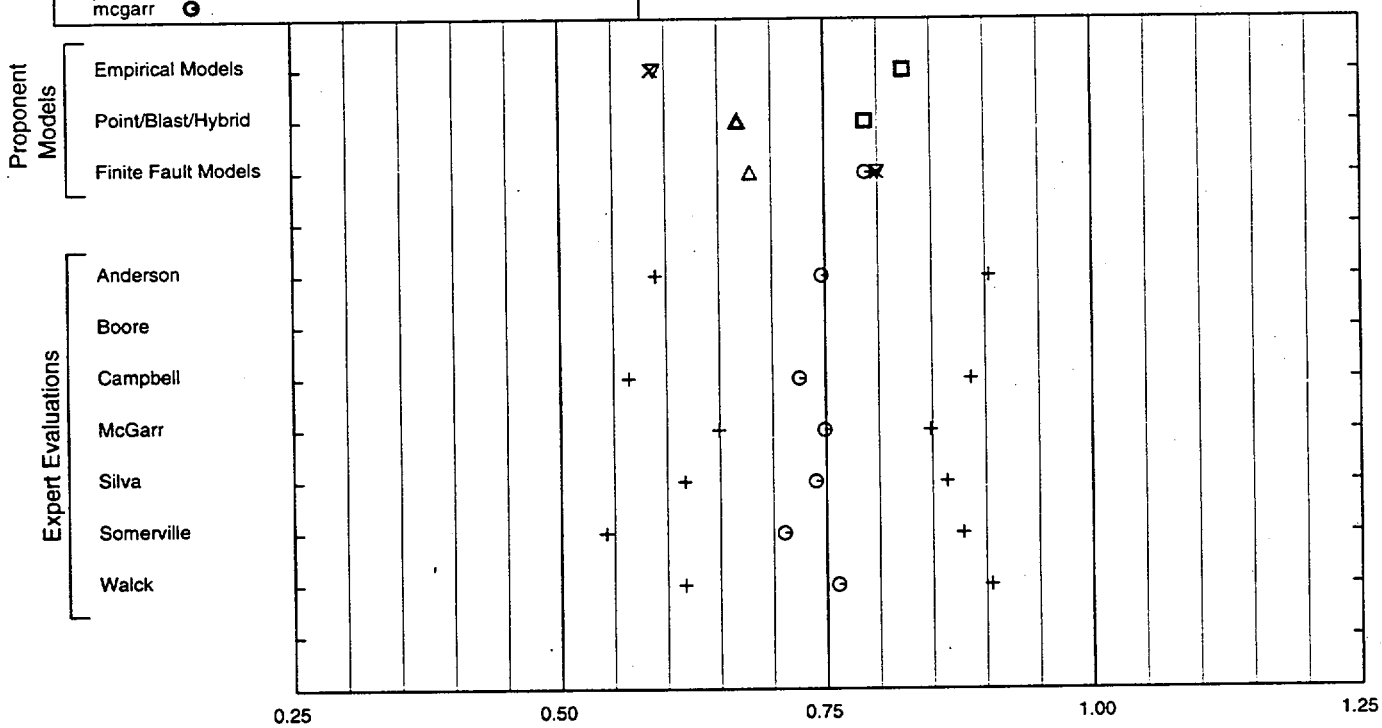
case 32, M= 5.8, shallow, xd= 50 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

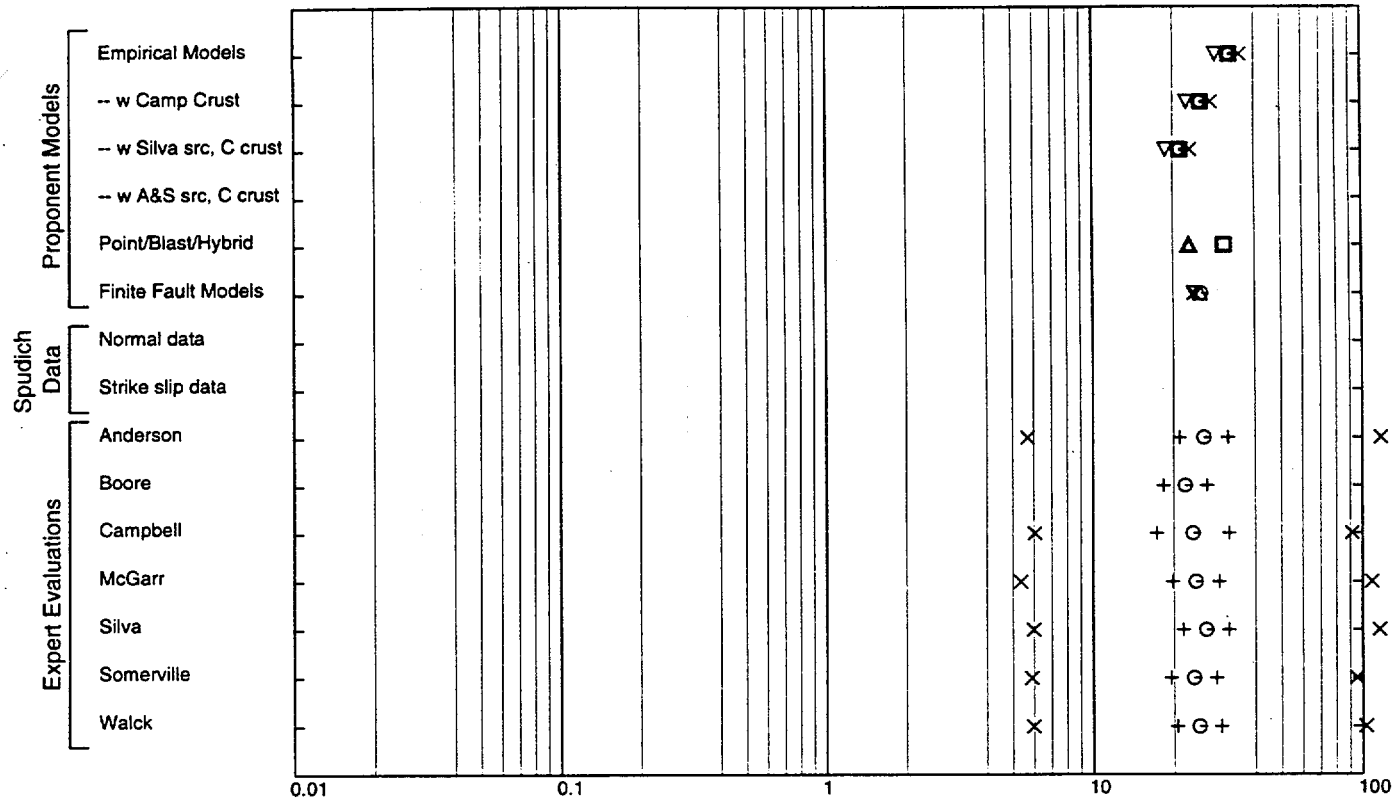
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊙	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊙				



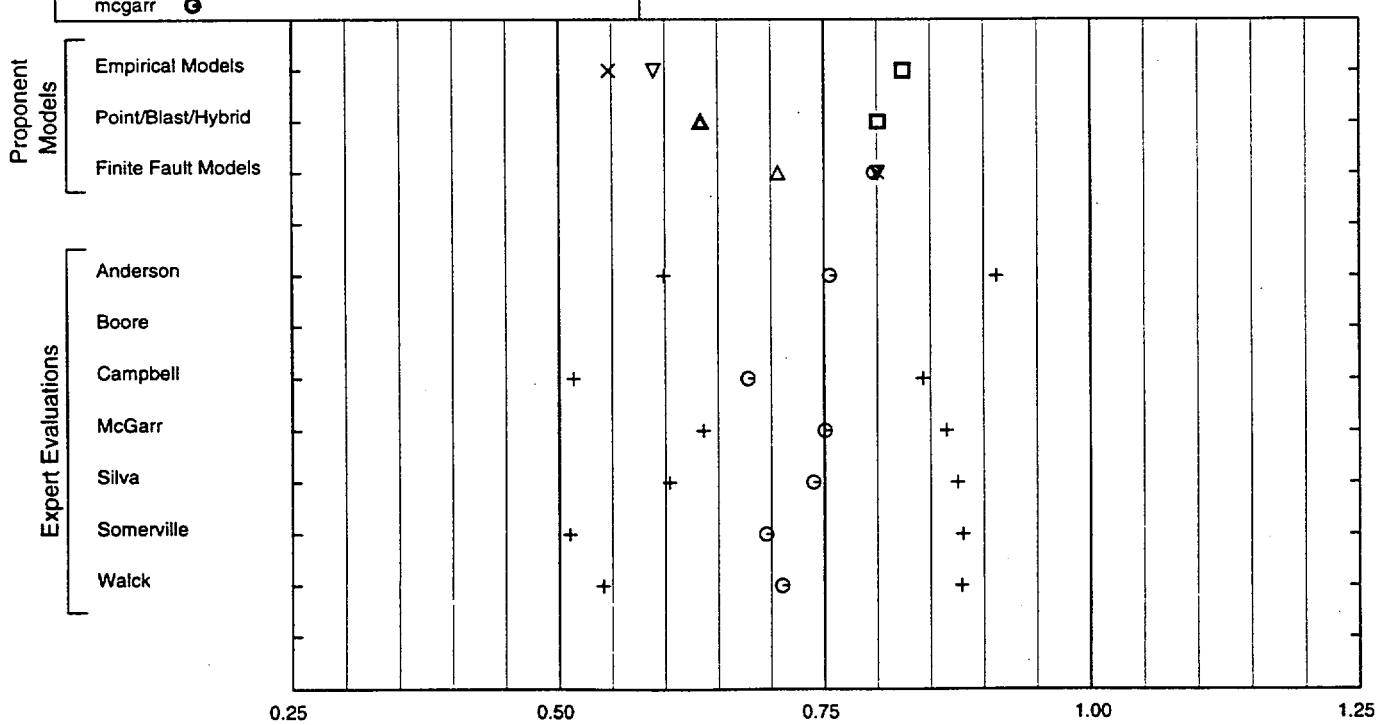
Aleatory Sigma (LN units) w/ Comp Var.

case 33, M= 6.5, shallow, xd= 5 km, SS, PGV, HOR, 6/5/97, Rev 1

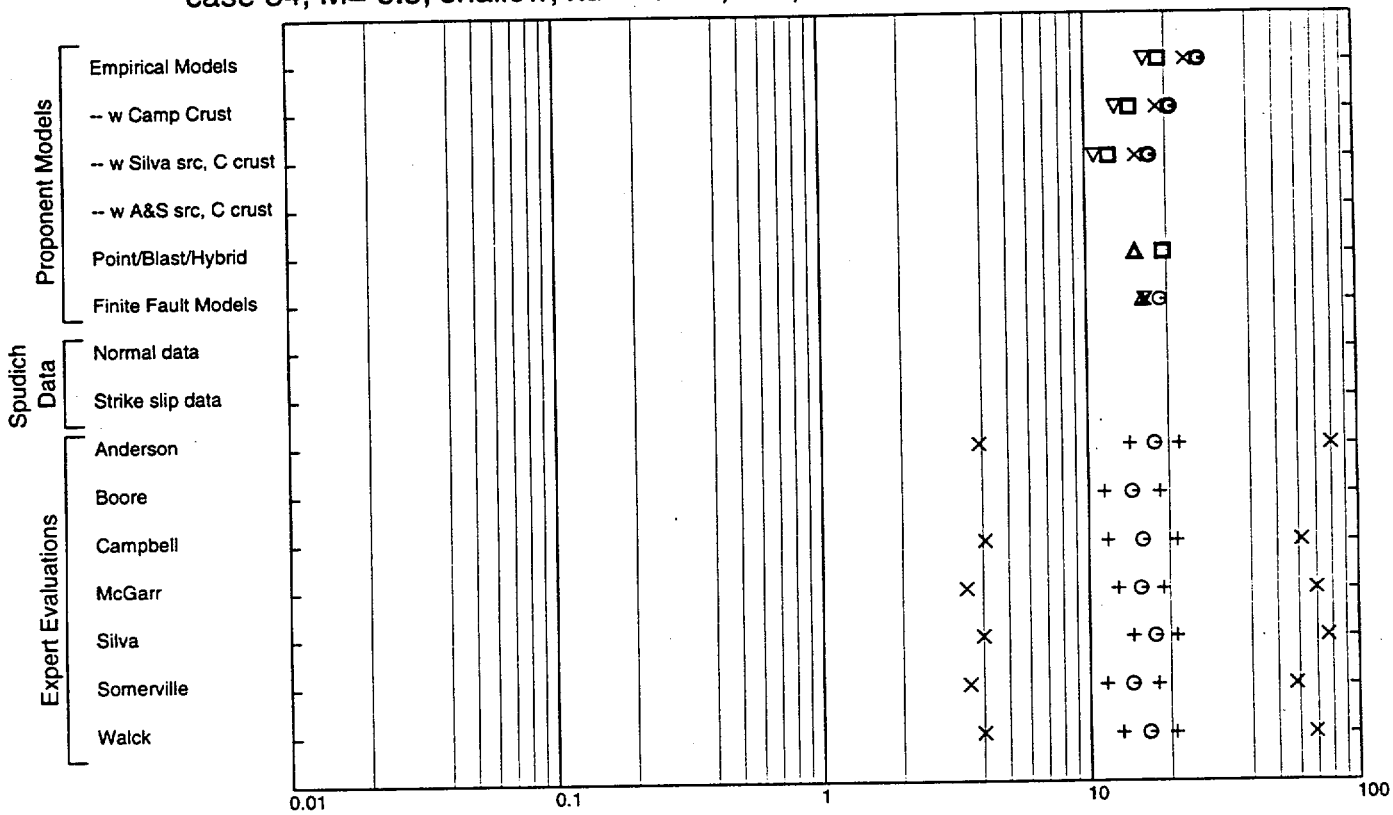


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



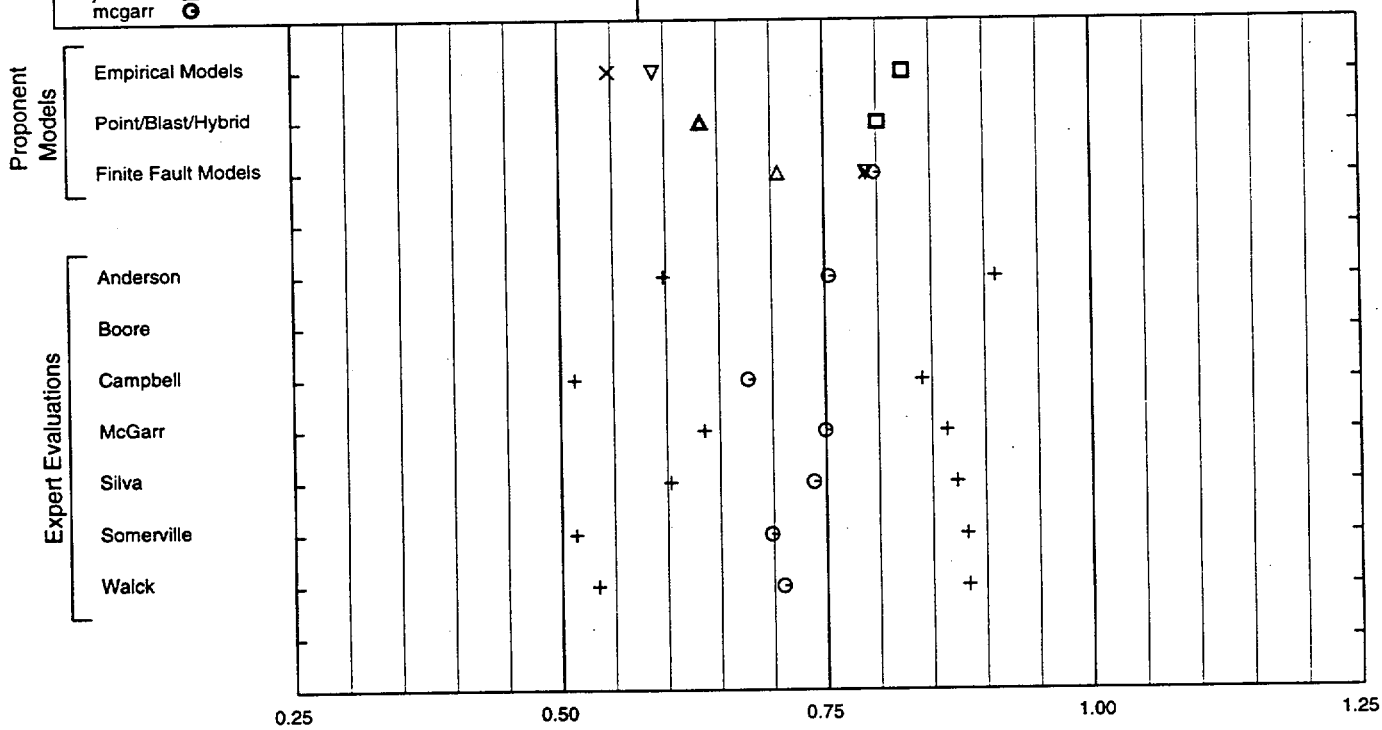
case 34, M= 6.5, shallow, xd= 10 km, SS, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

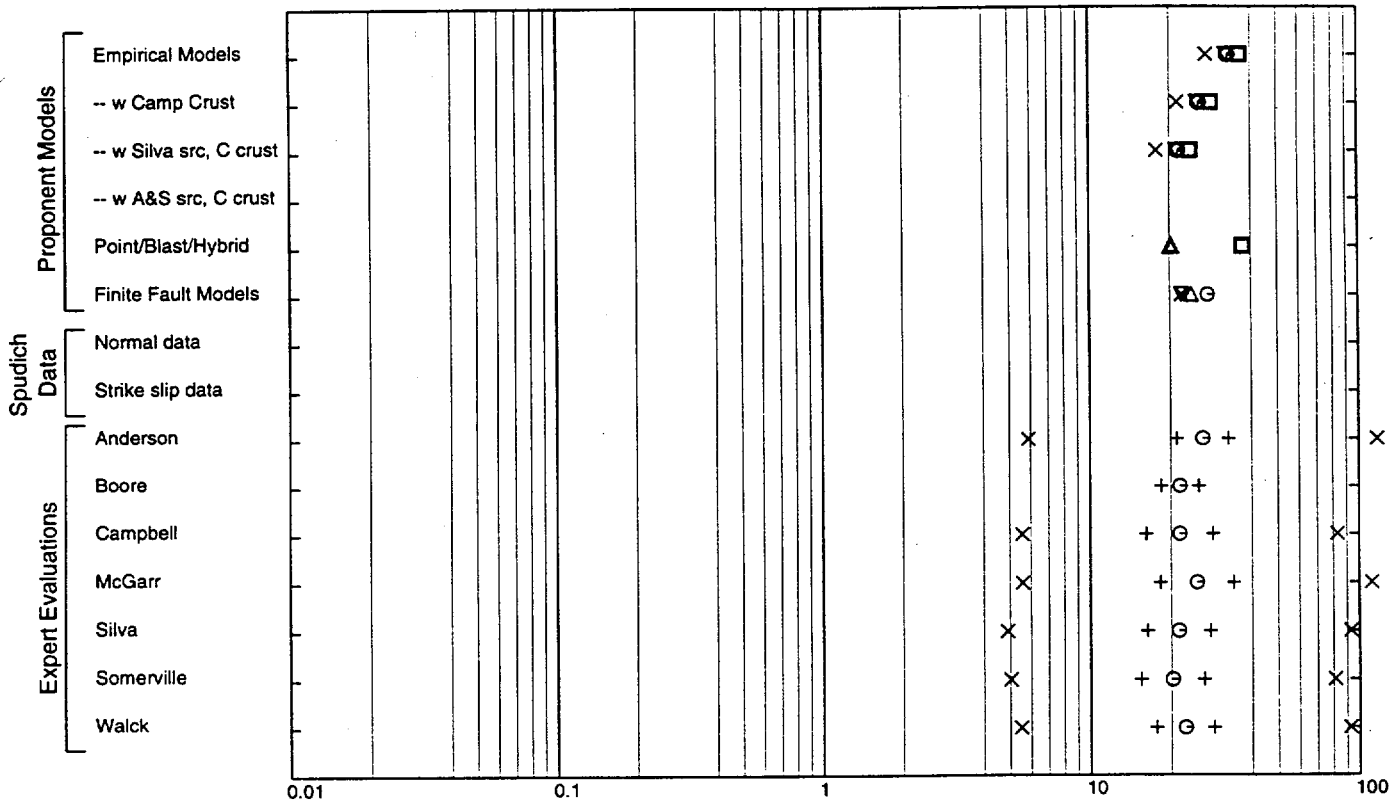
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

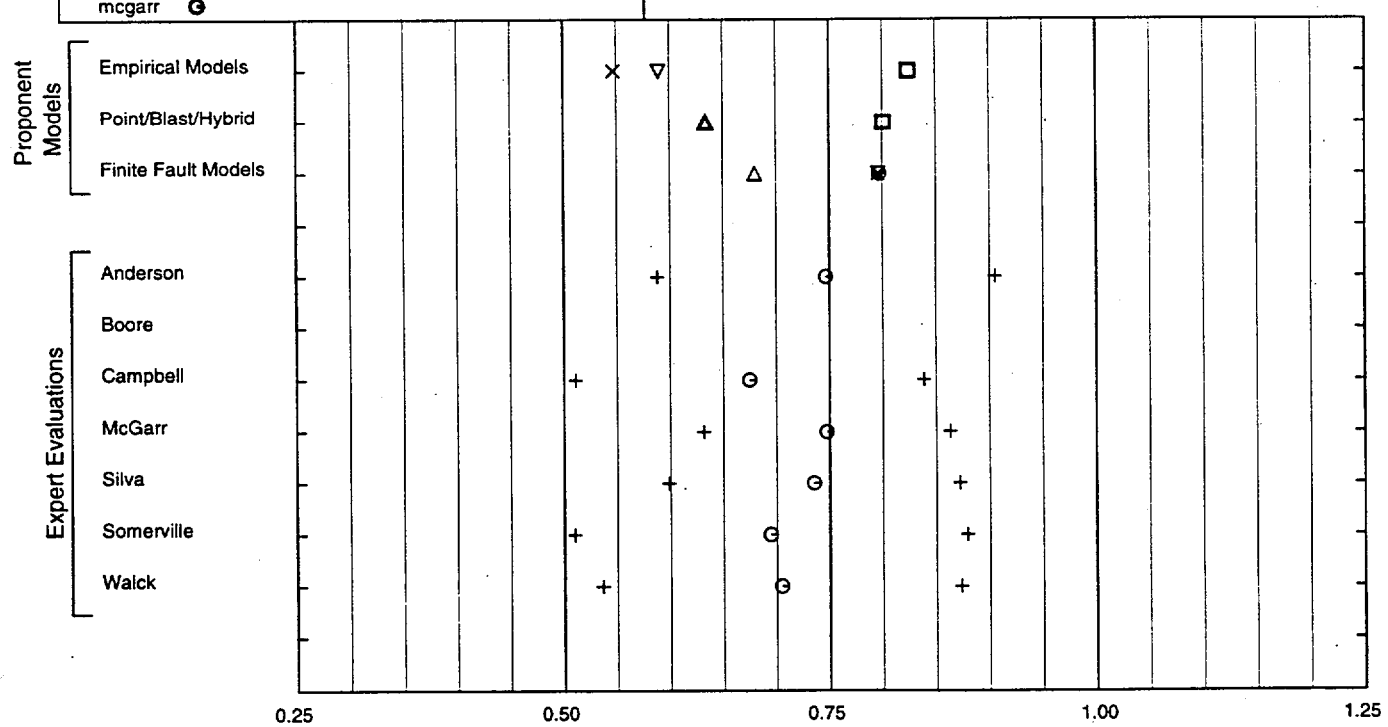
case 35, M= 6.5, shallow, xd= 10 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

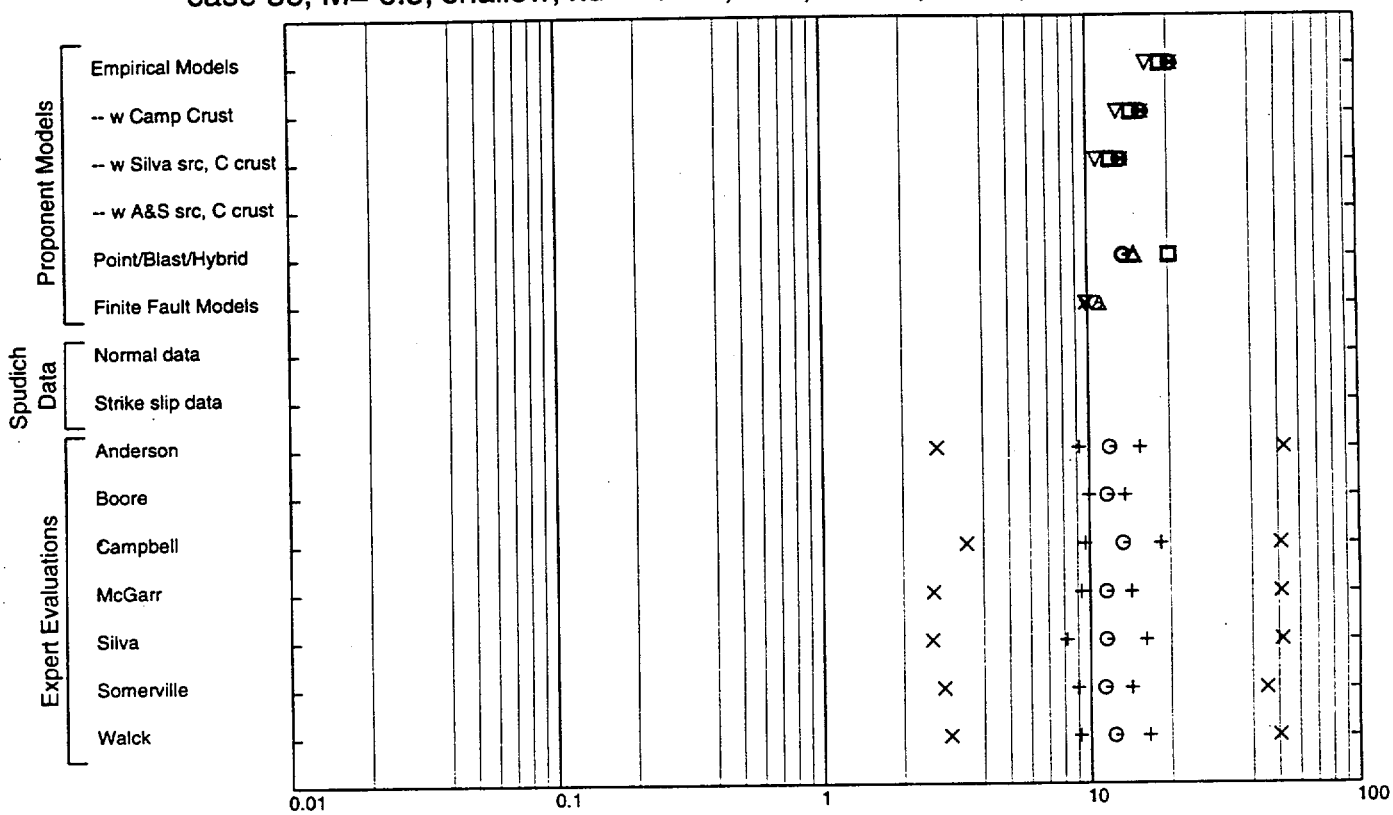
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

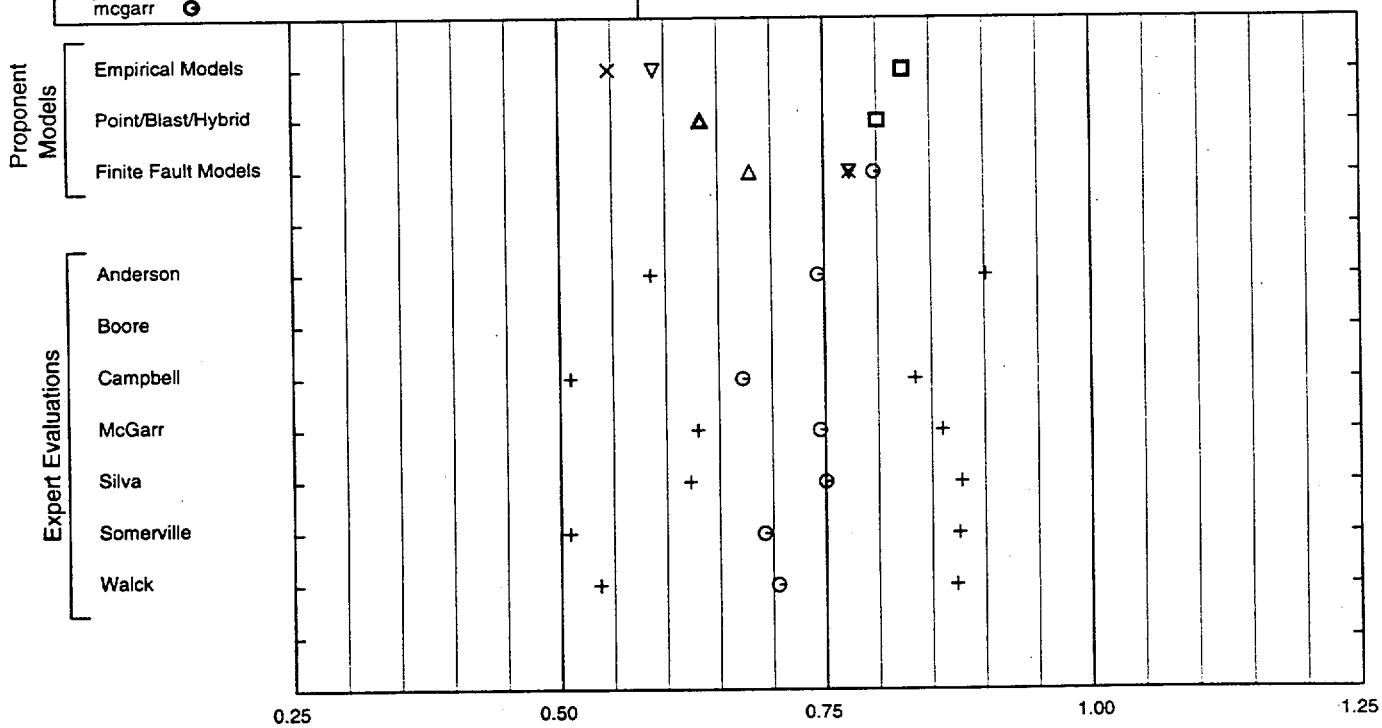
case 36, M= 6.5, shallow, xd=-10 km, FW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

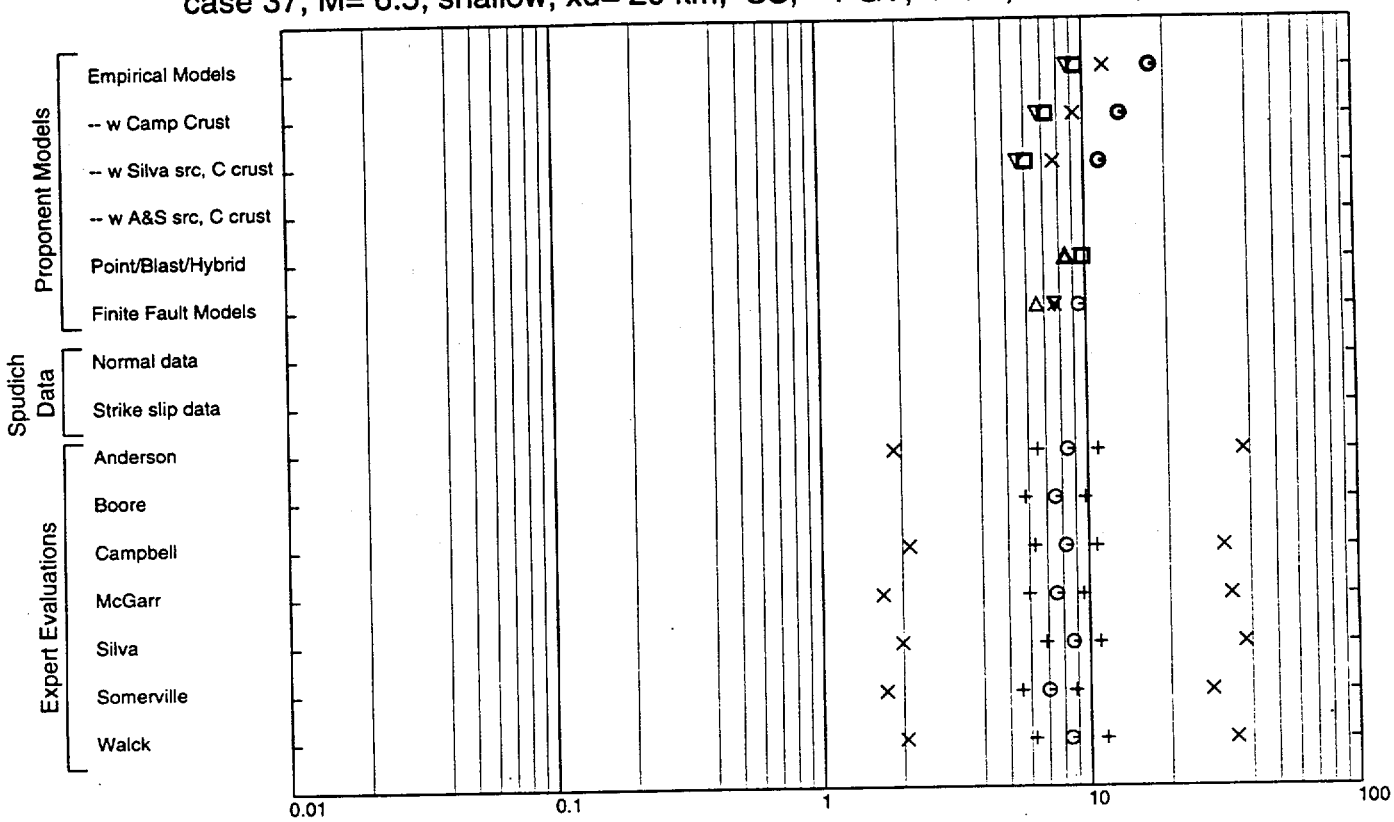
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

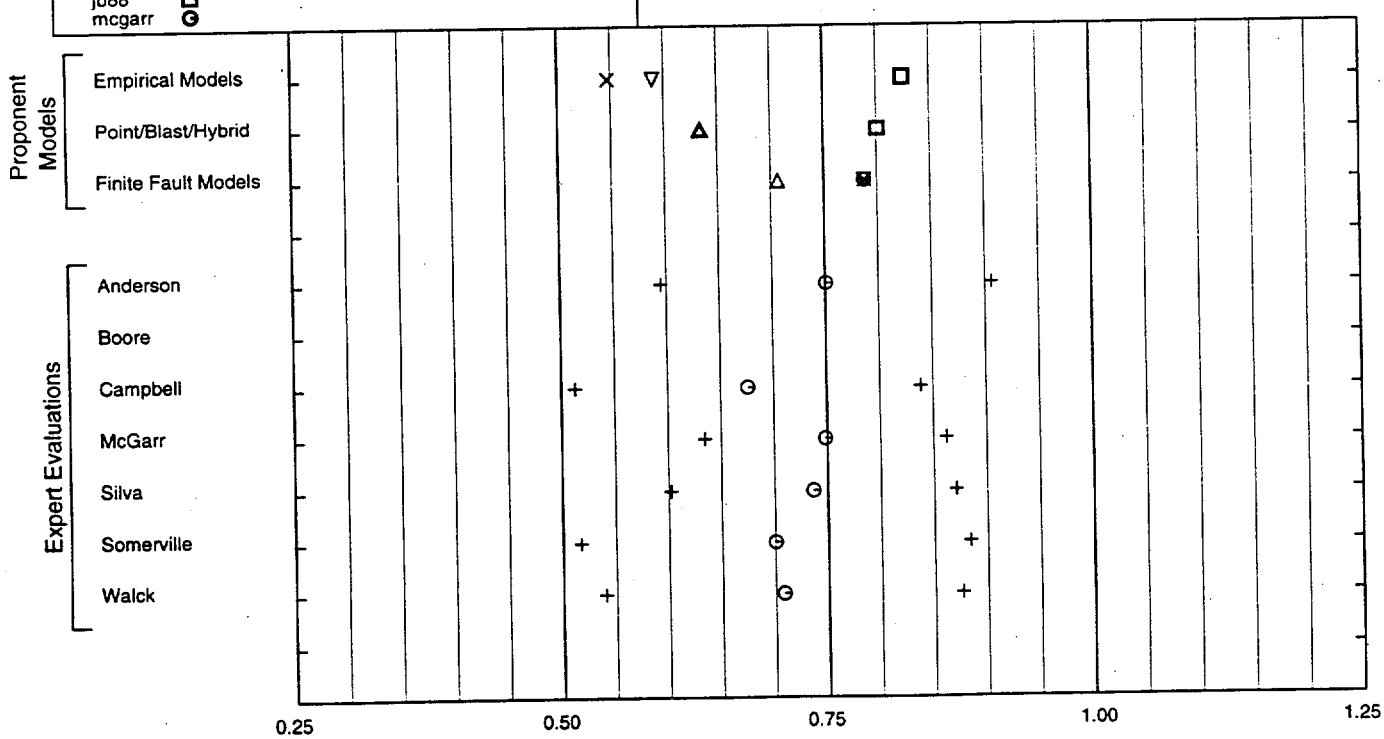
case 37, M= 6.5, shallow, xd= 20 km, SS, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

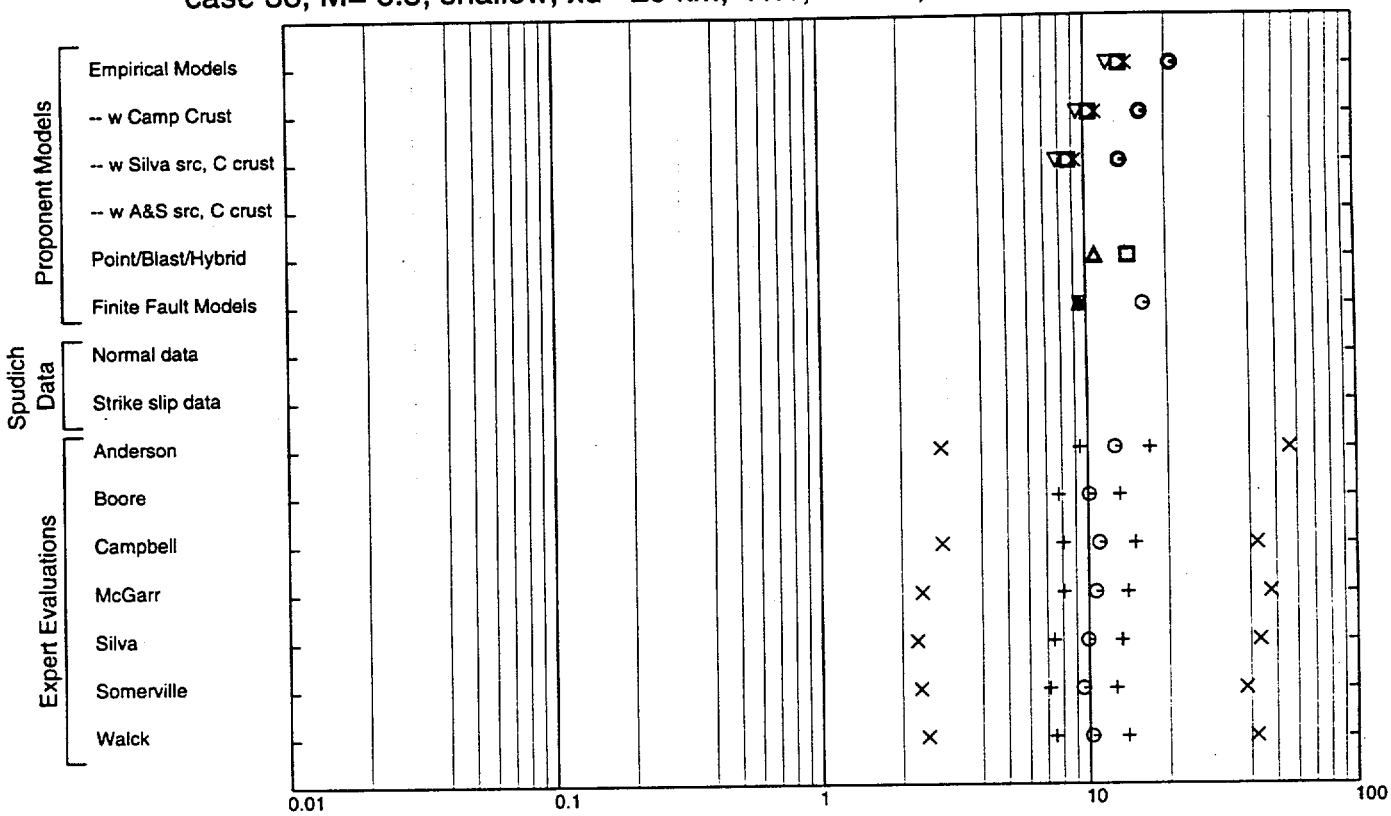
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

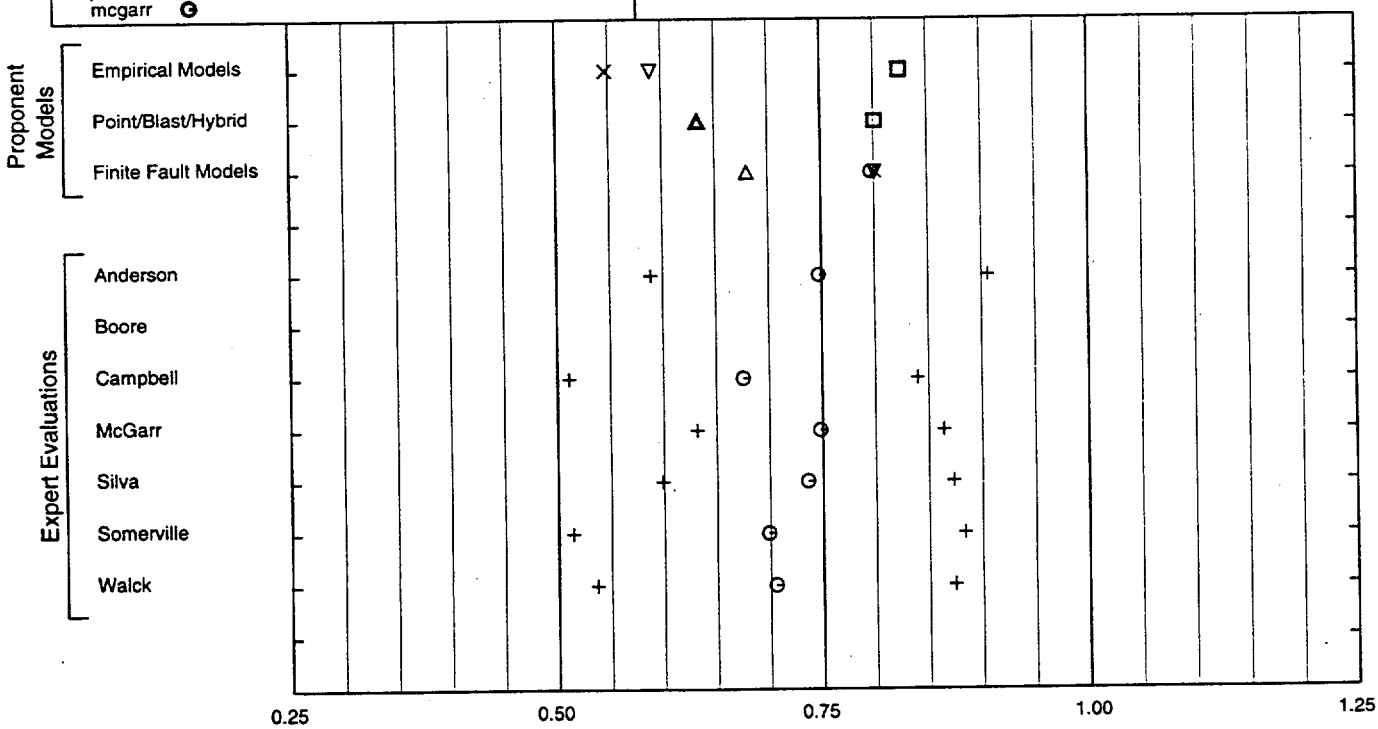
case 38, M= 6.5, shallow, xd= 20 km, HW, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

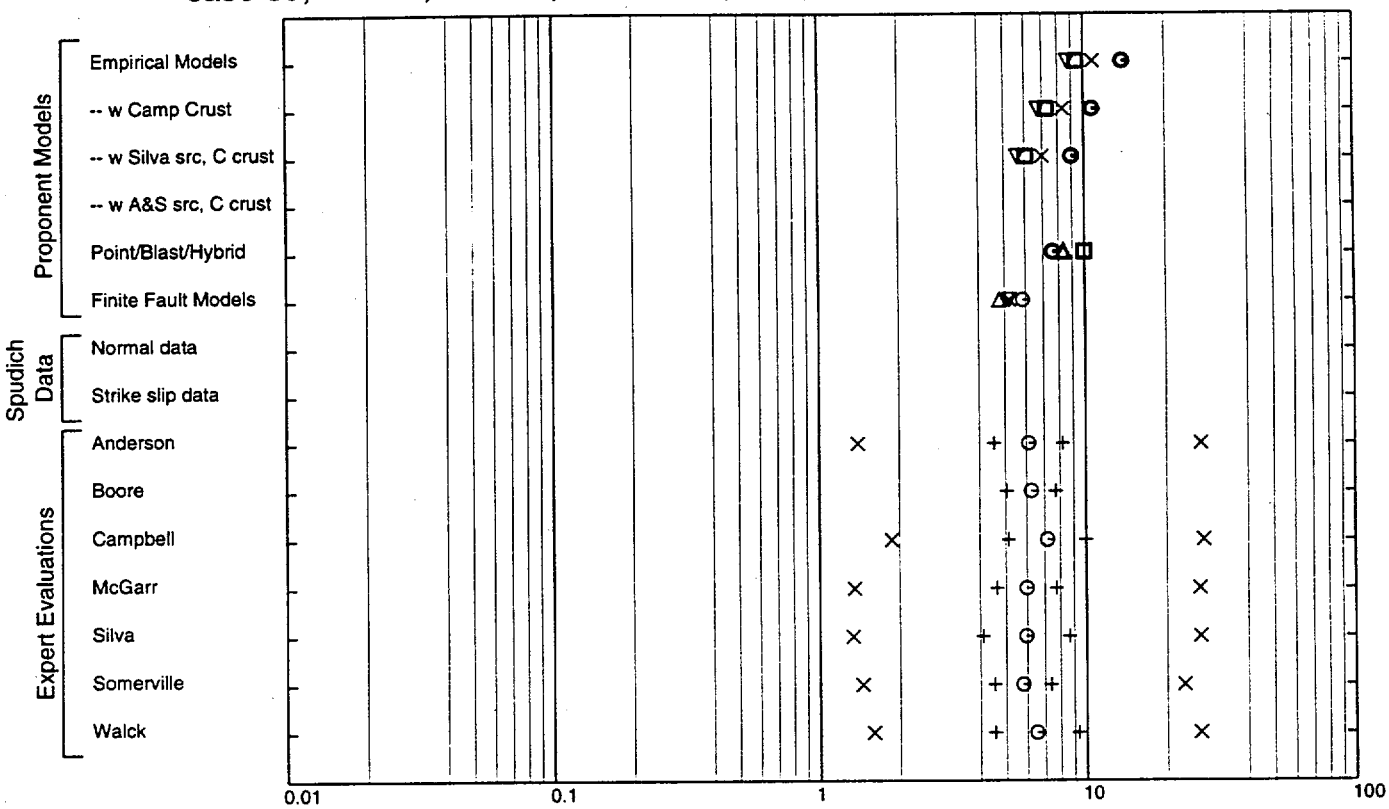
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×	blast2	×	som	△
idr	△	hybrid	▲	andB	+
sad	+			andC	◇
sea	◇			silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



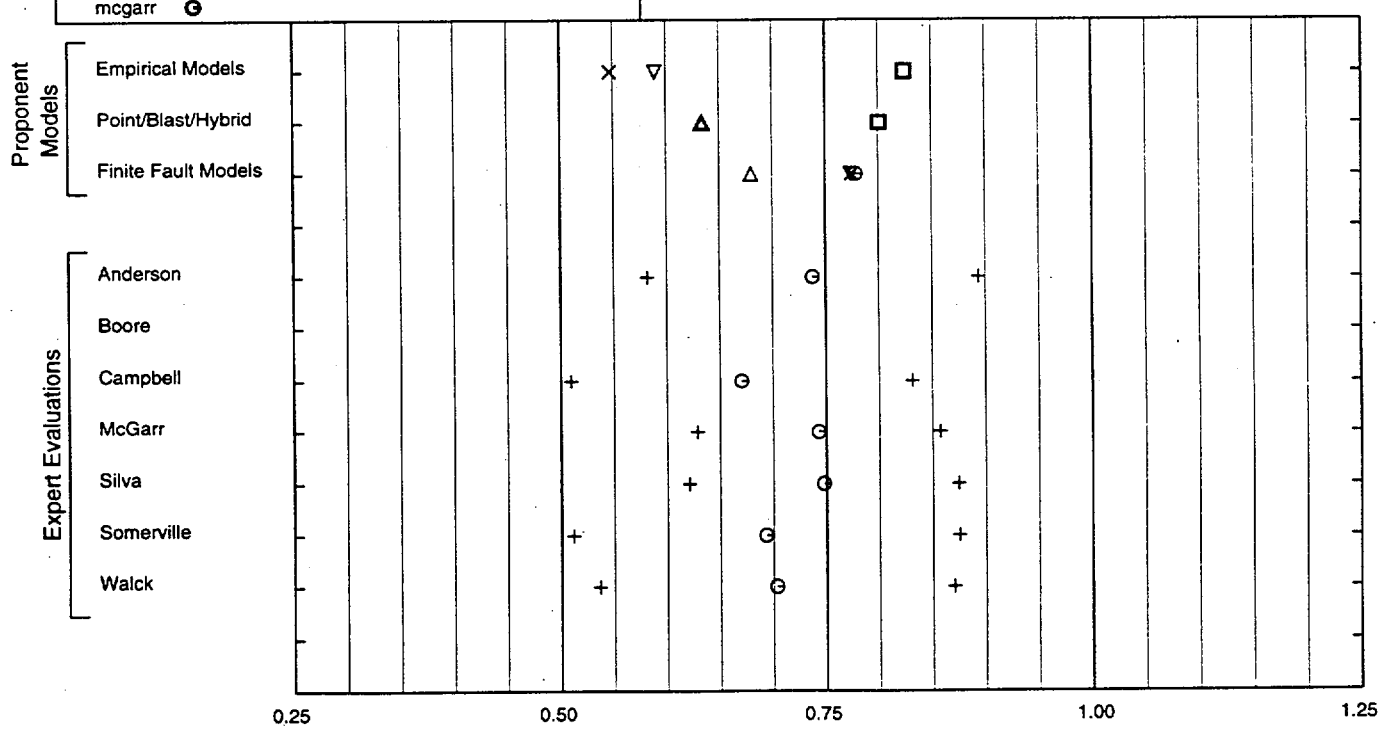
Aleatory Sigma (LN units) w/ Comp Var.

case 39, M= 6.5, shallow, xd=-20 km, FW, PGV, HOR, 6/5/97, Rev 1

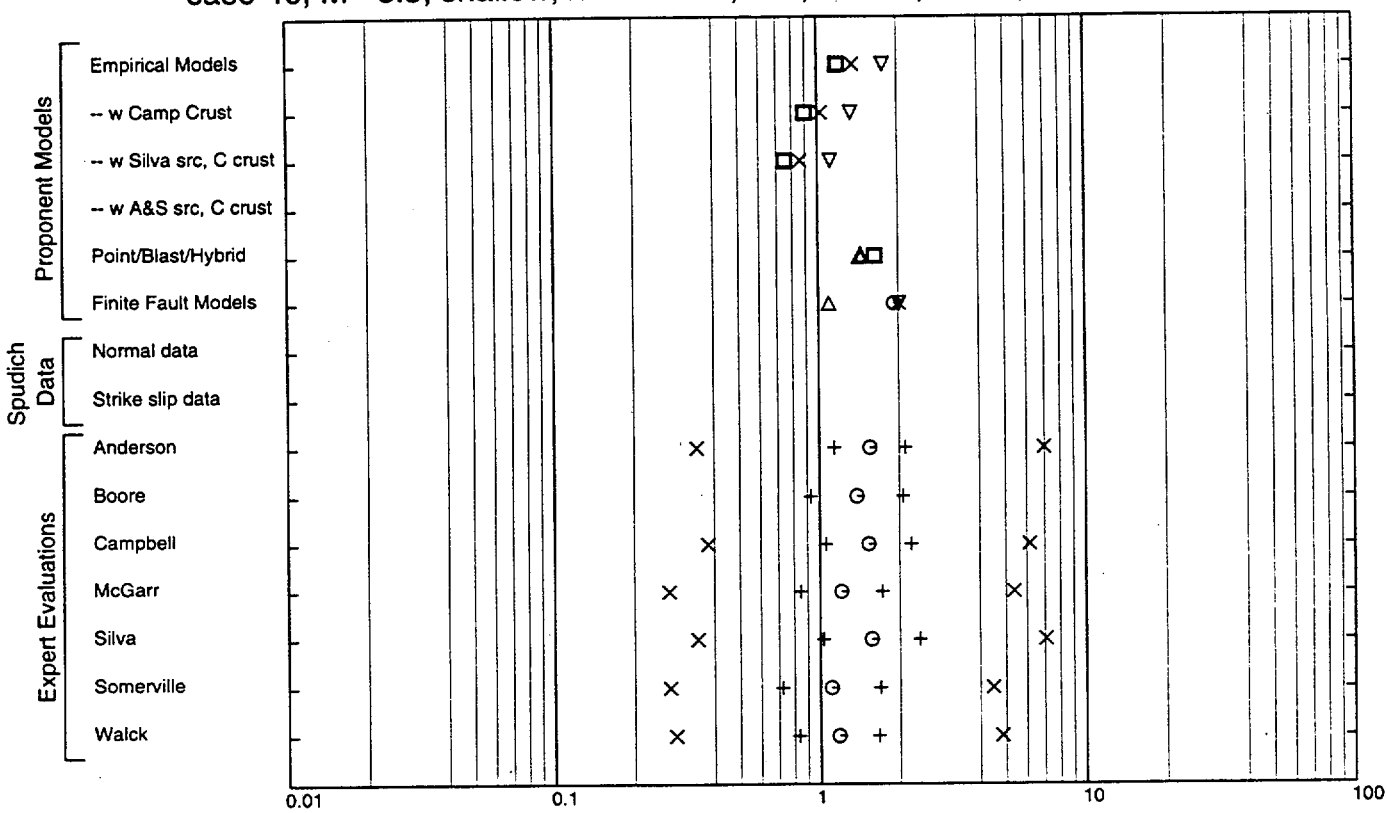


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

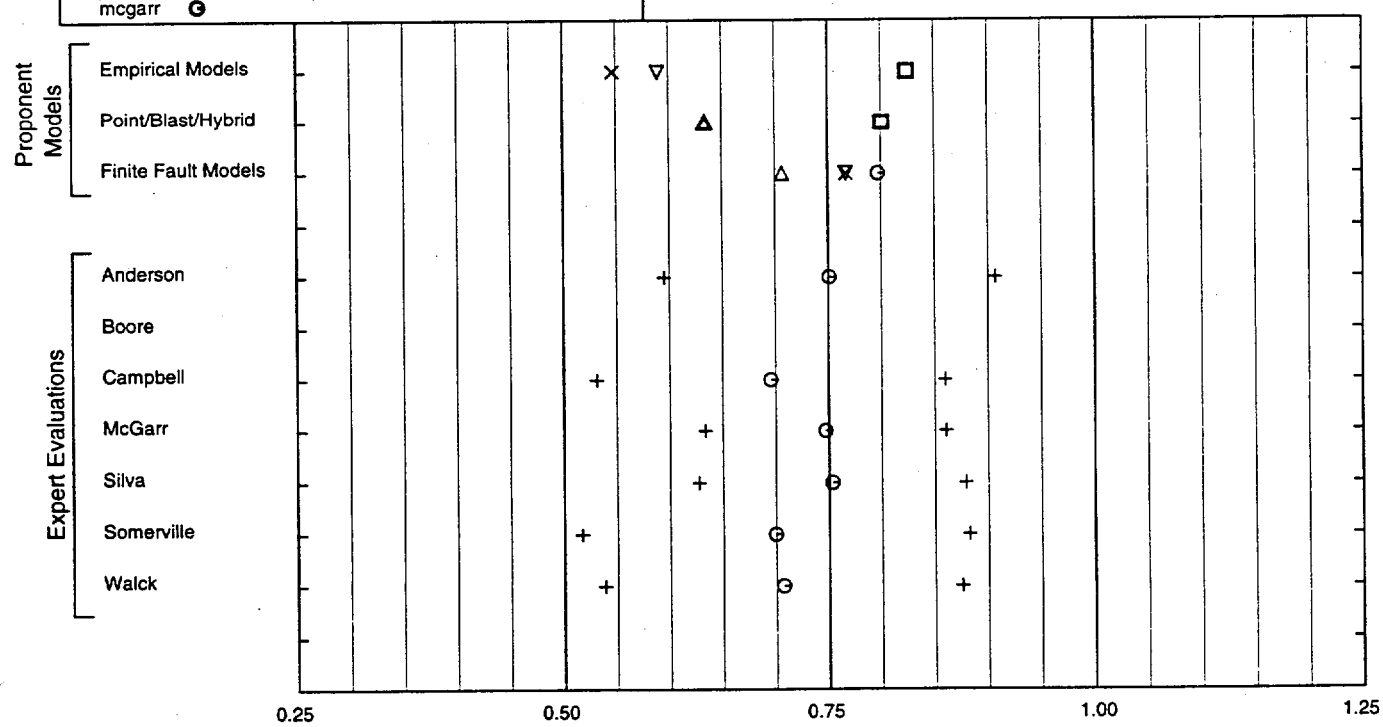


case 40, M= 6.5, shallow, xd=100 km, SS, PGV, HOR, 6/5/97, Rev 1

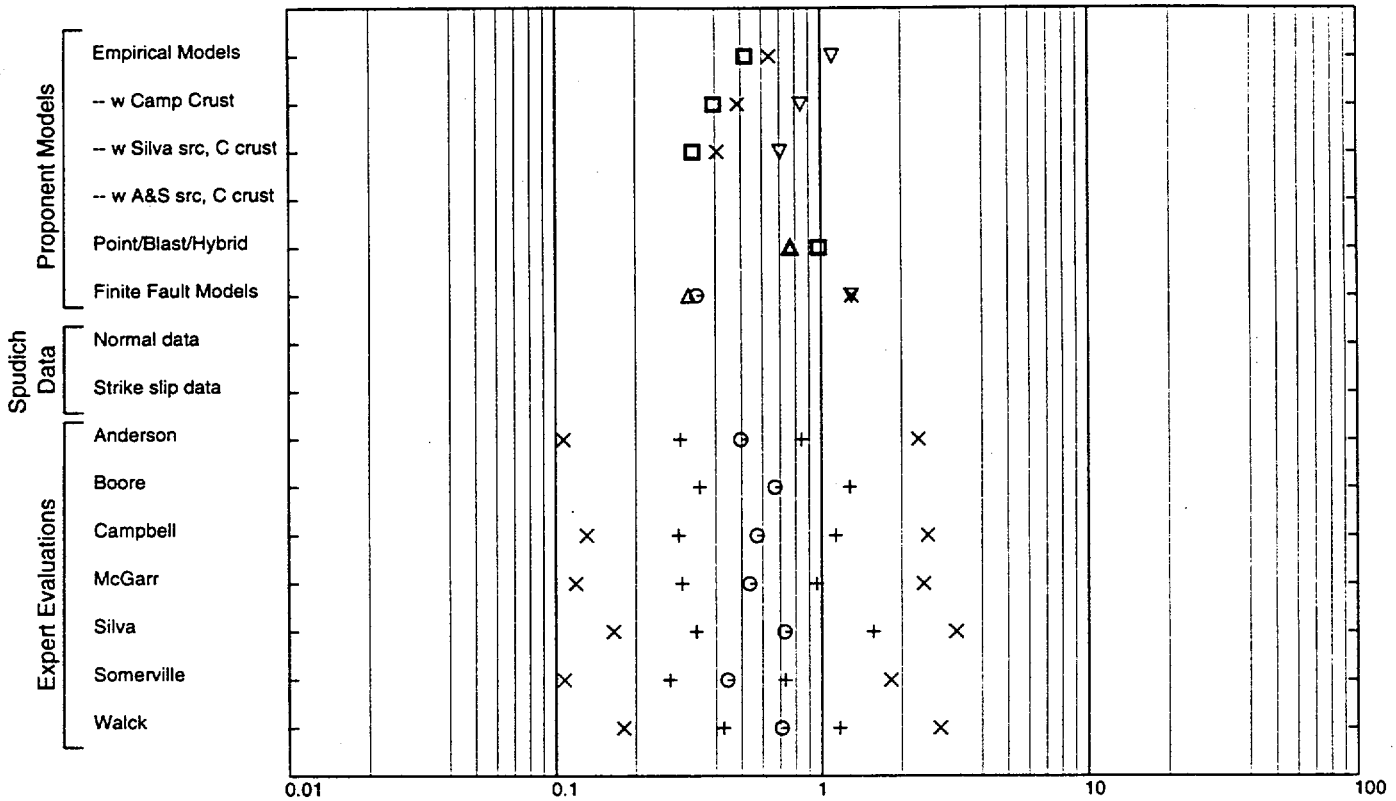


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

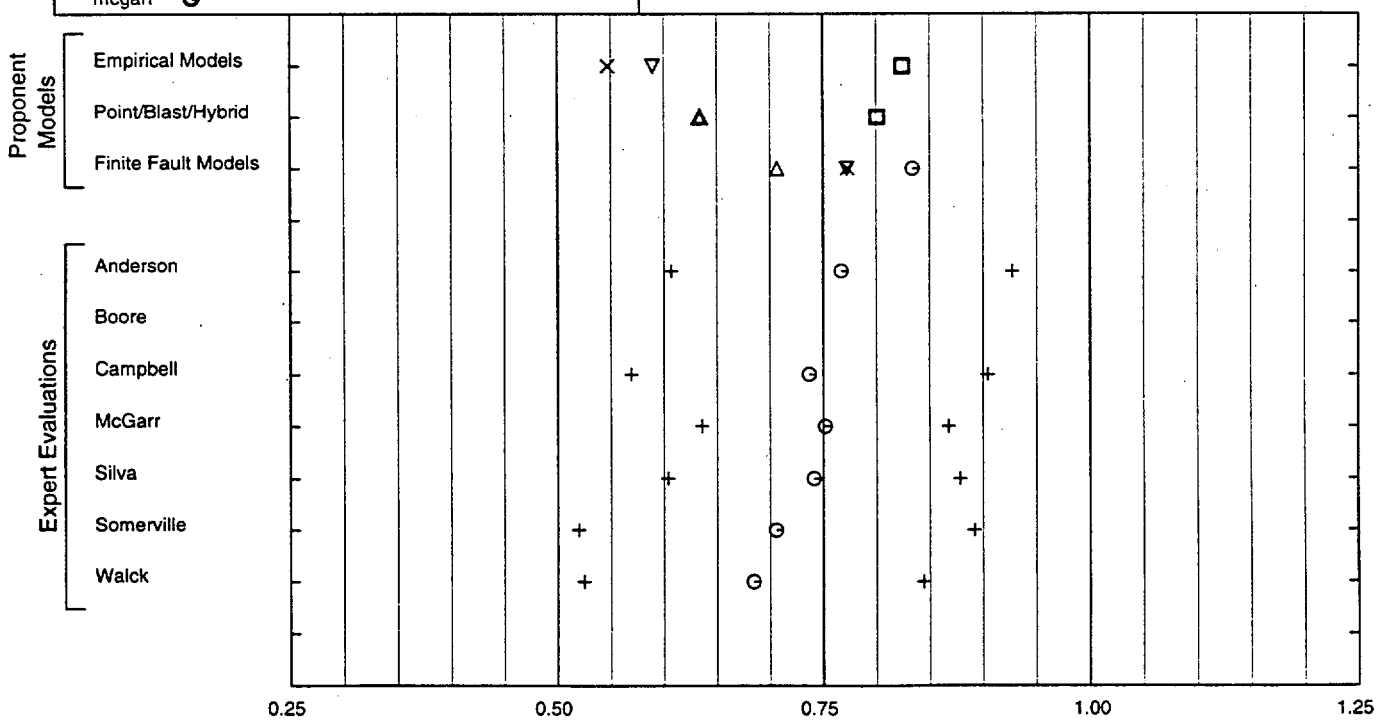


case 41, M= 6.5, shallow, xd=160 km, SS, PGV, HOR, 6/5/97, Rev 1

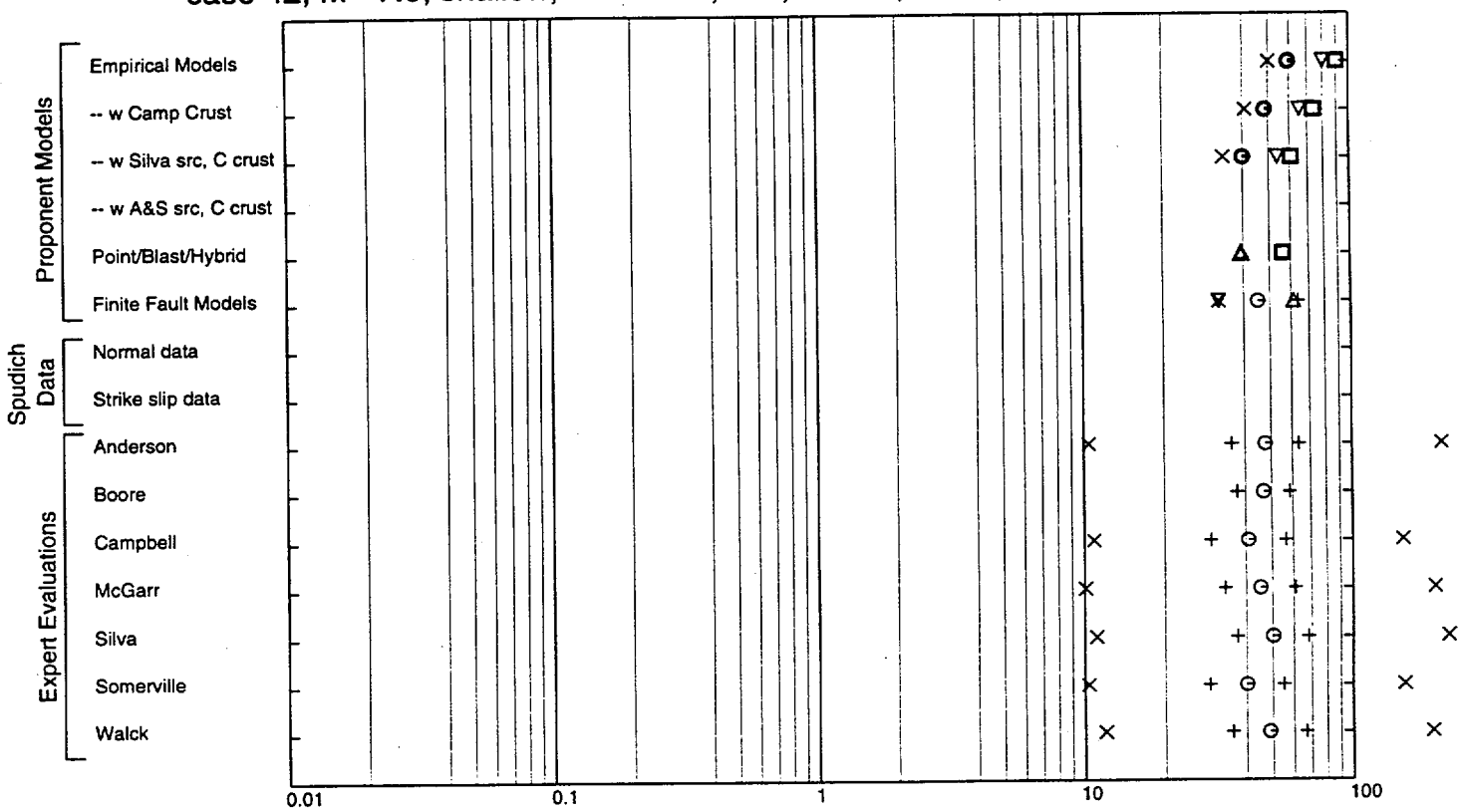


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

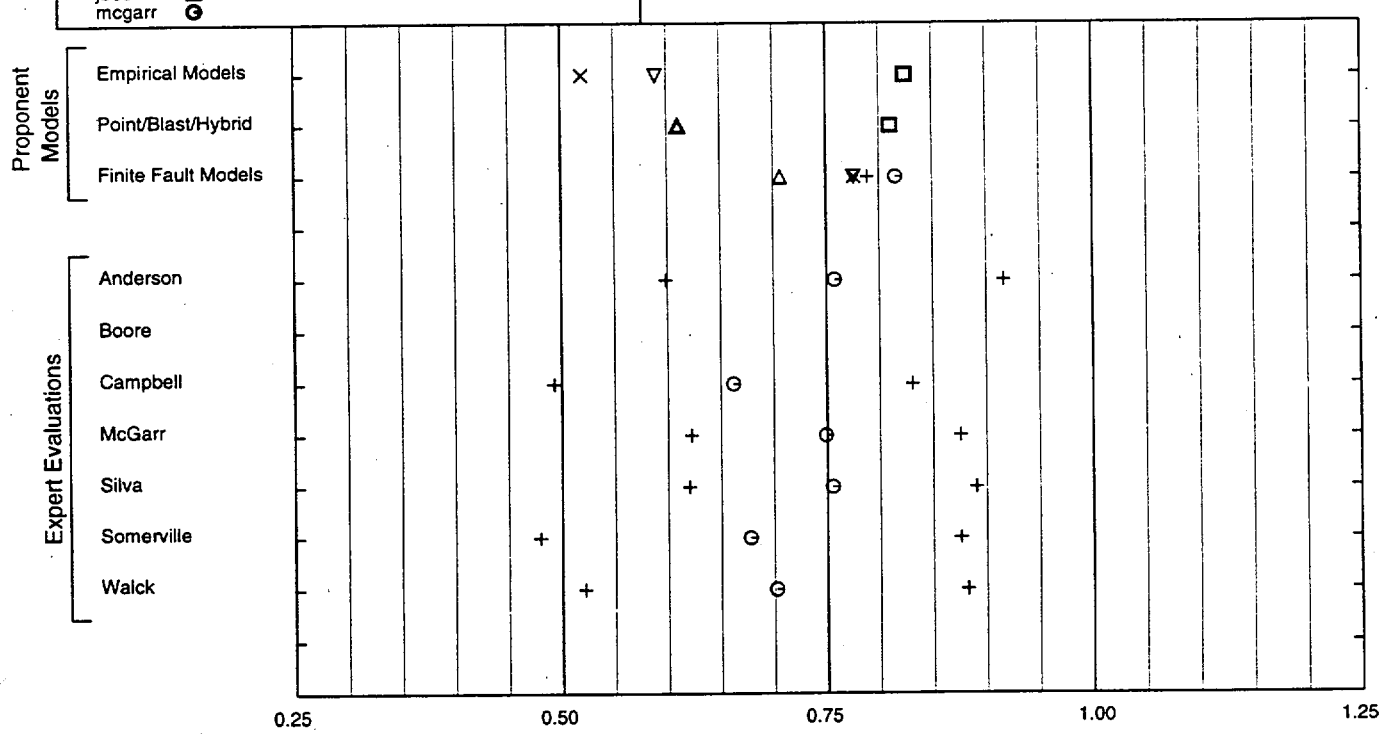


case 42, M= 7.0, shallow, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

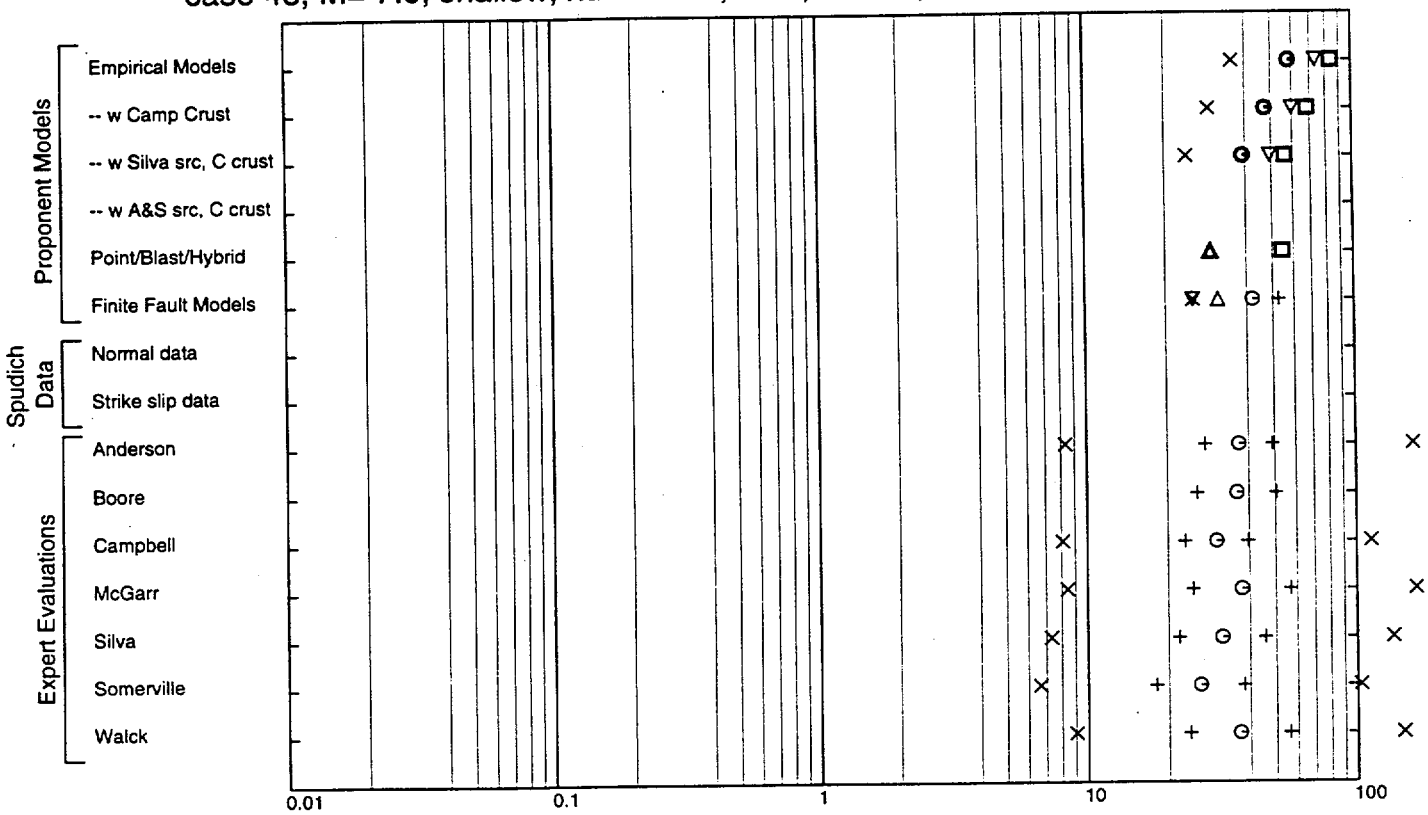


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



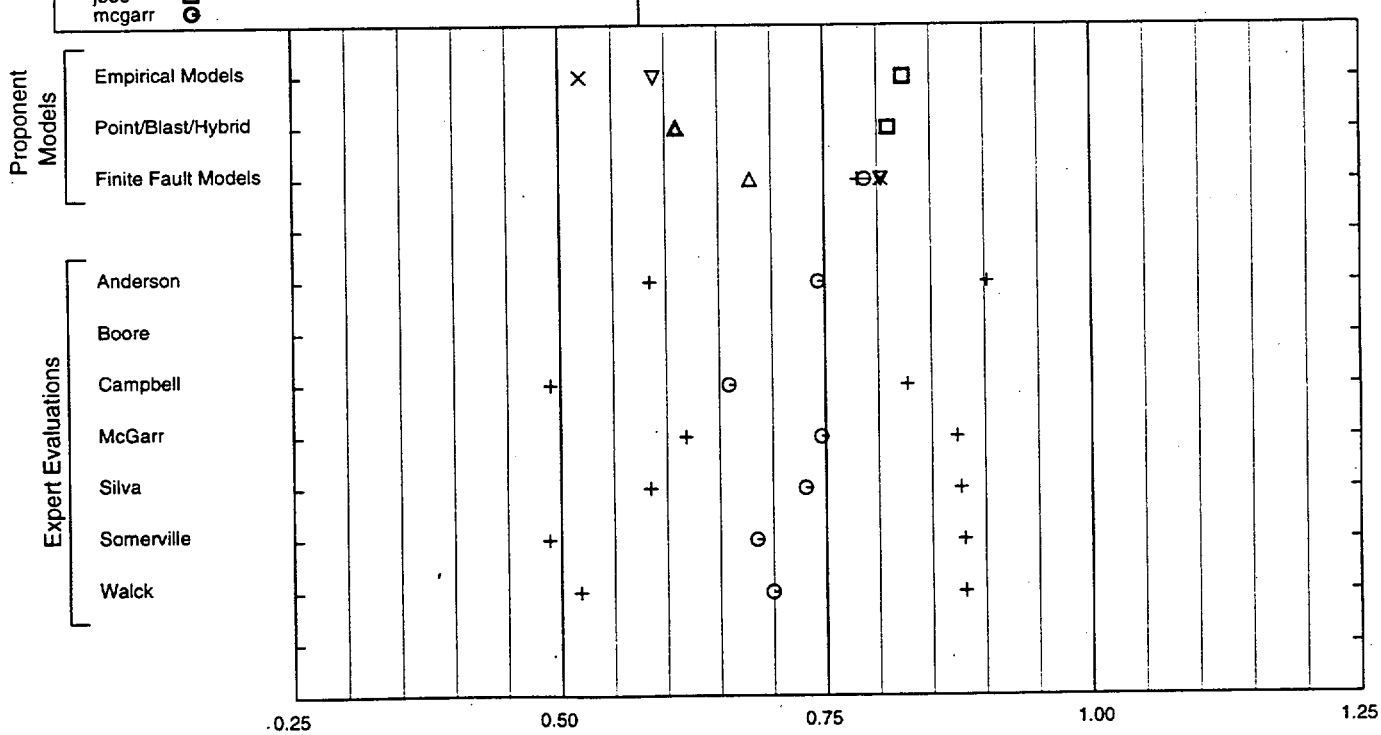
case 43, M= 7.0, shallow, xd= 10 km, HW, PGV, HOR, 6/5/97, Rev 1



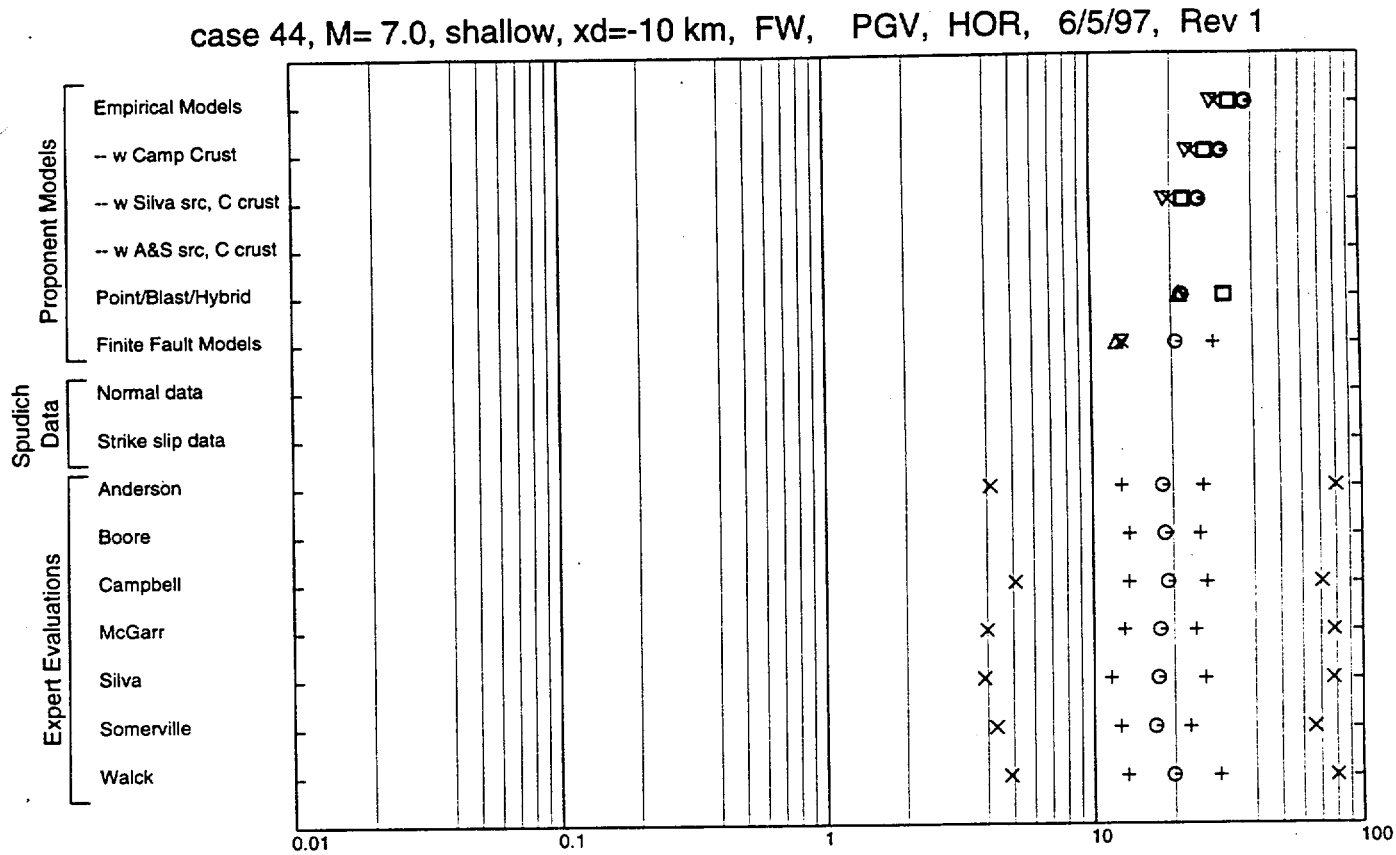
Velocity (cm/s)

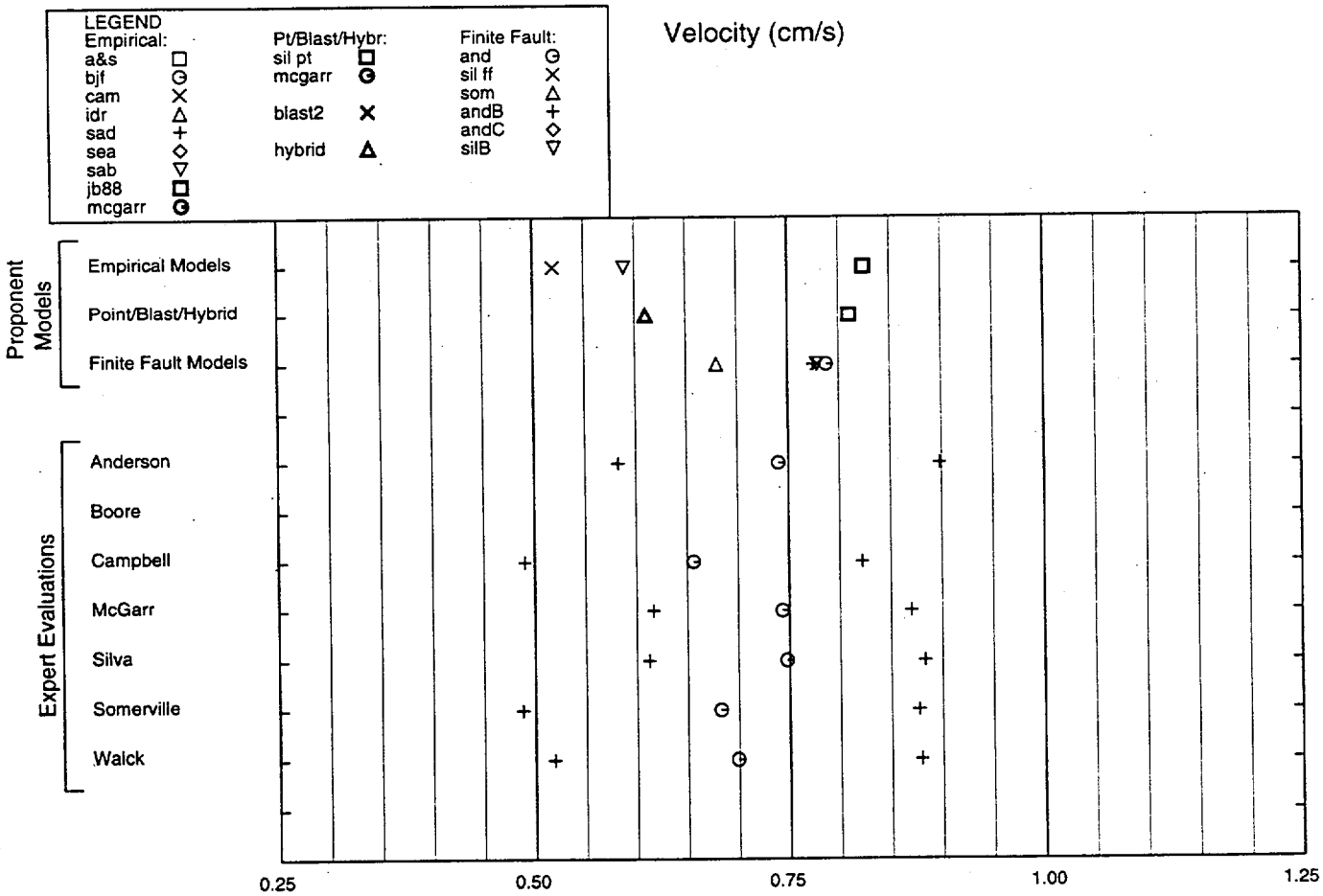
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

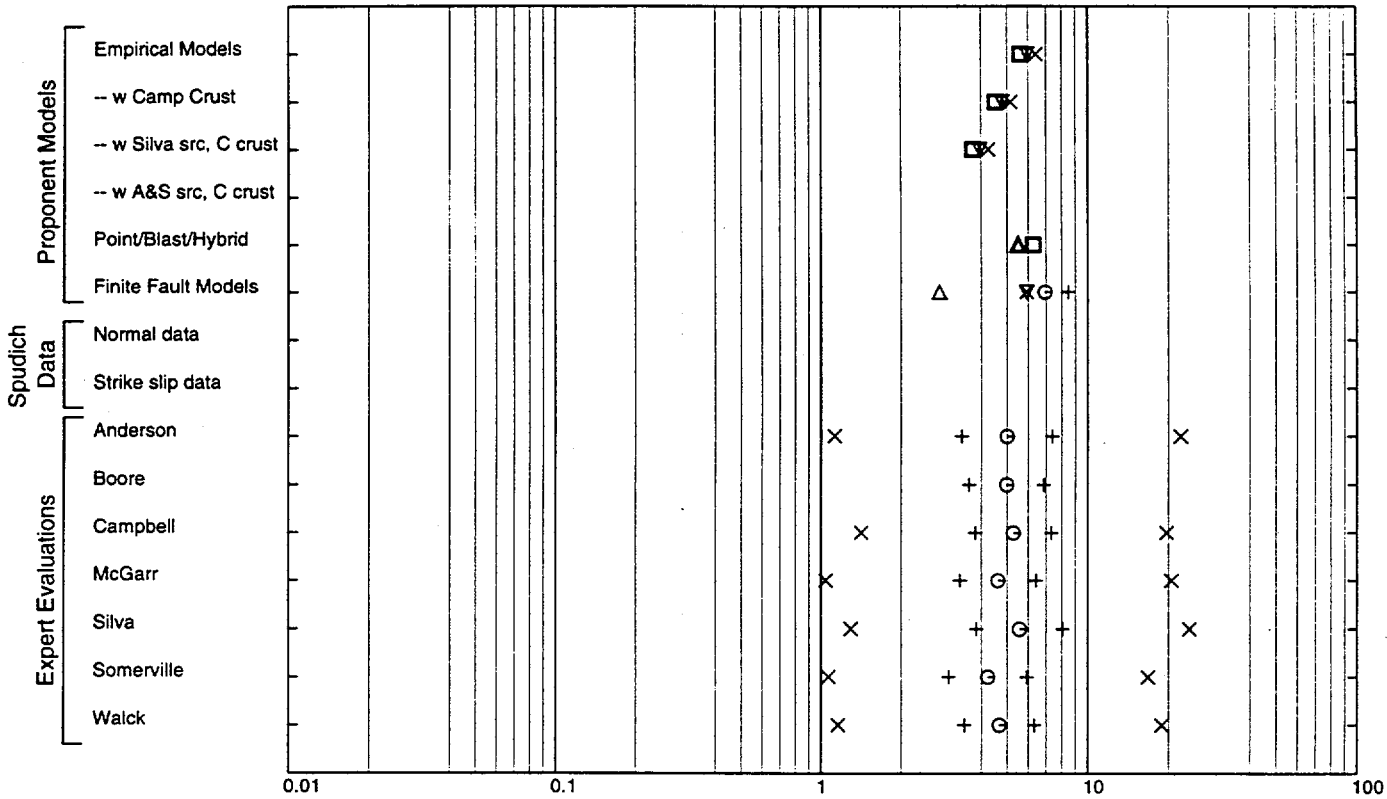


Aleatory Sigma (LN units) w/ Comp Var.


case 44, M= 7.0, shallow, xd=-10 km, FW, PGV, HOR, 6/5/97, Rev 1
Proponent Models
Empirical Models
-- w Camp Crust
-- w Silva src, C crust
-- w A&S src, C crust
Point/Blast/Hybrid
Finite Fault Models
Spudich Data
Normal data
Strike slip data
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.01
0.1
1
10
100
Velocity (cm/s)

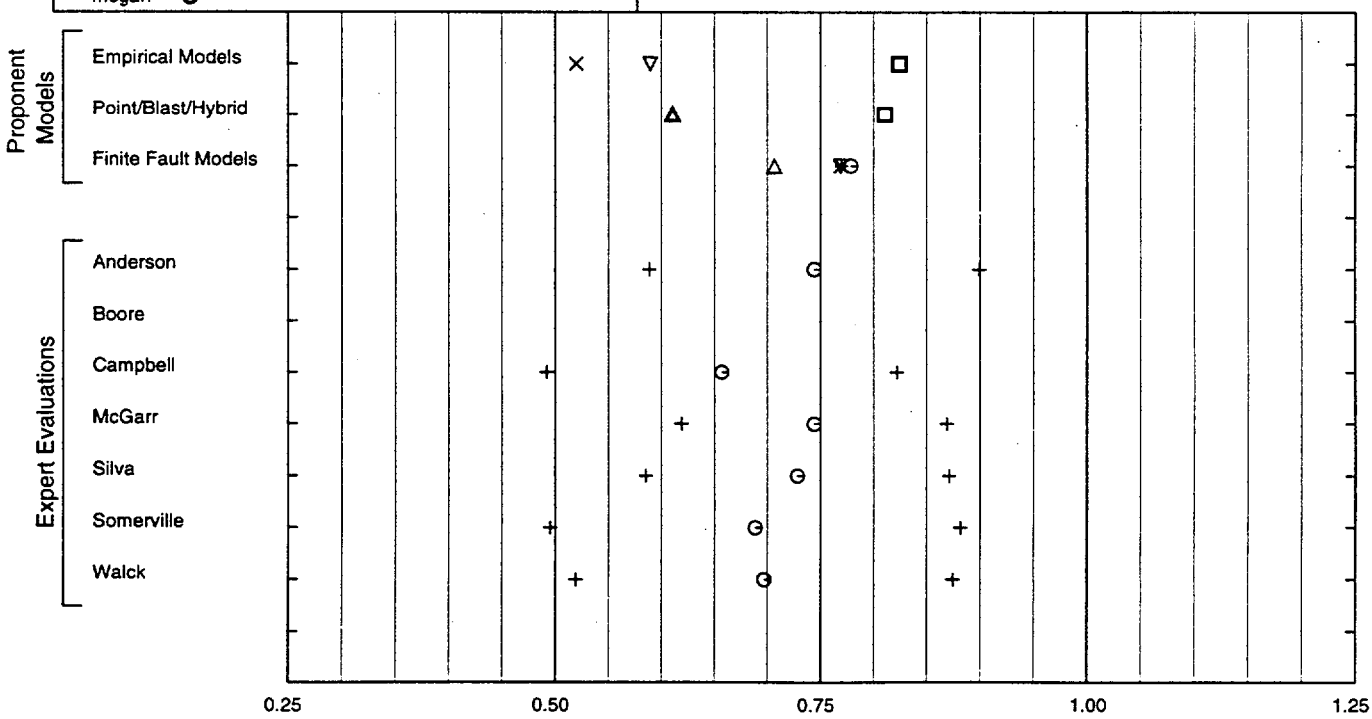

LEGEND
Empirical:
a&s
bjf
cam
idr
sad
sea
sab
jb88
mcgarr
Pt/Blast/Hybr:
sil pt
mcgarr
blast2
hybrid
Finite Fault:
and
sil ff
som
andB
andC
silB
Proponent Models
Empirical Models
Point/Blast/Hybrid
Finite Fault Models
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.25
0.50
0.75
1.00
1.25
Aleatory Sigma (LN units) w/ Comp Var.

case 45, M= 7.0, shallow, xd= 50 km, SS, PGV, HOR, 6/5/97, Rev 1

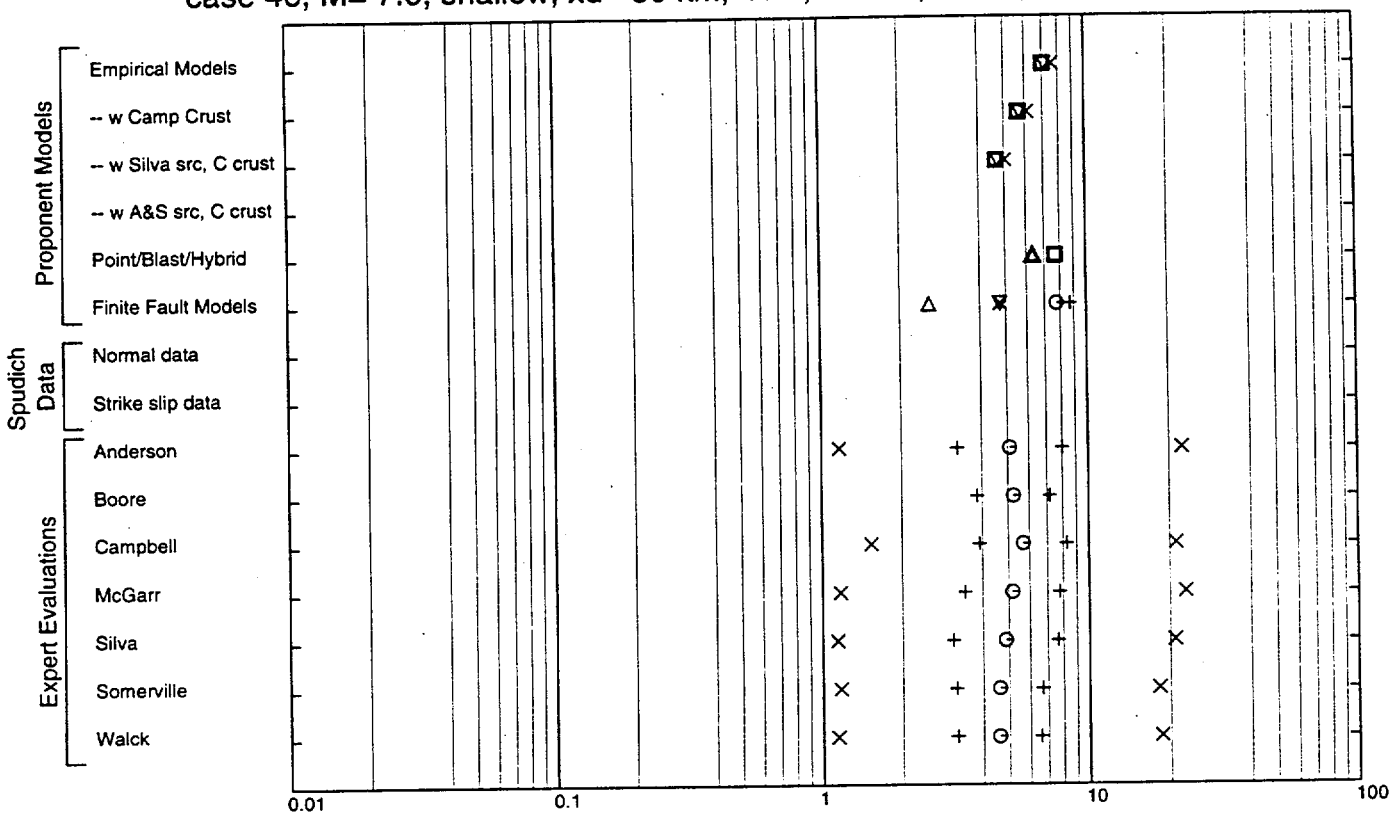


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

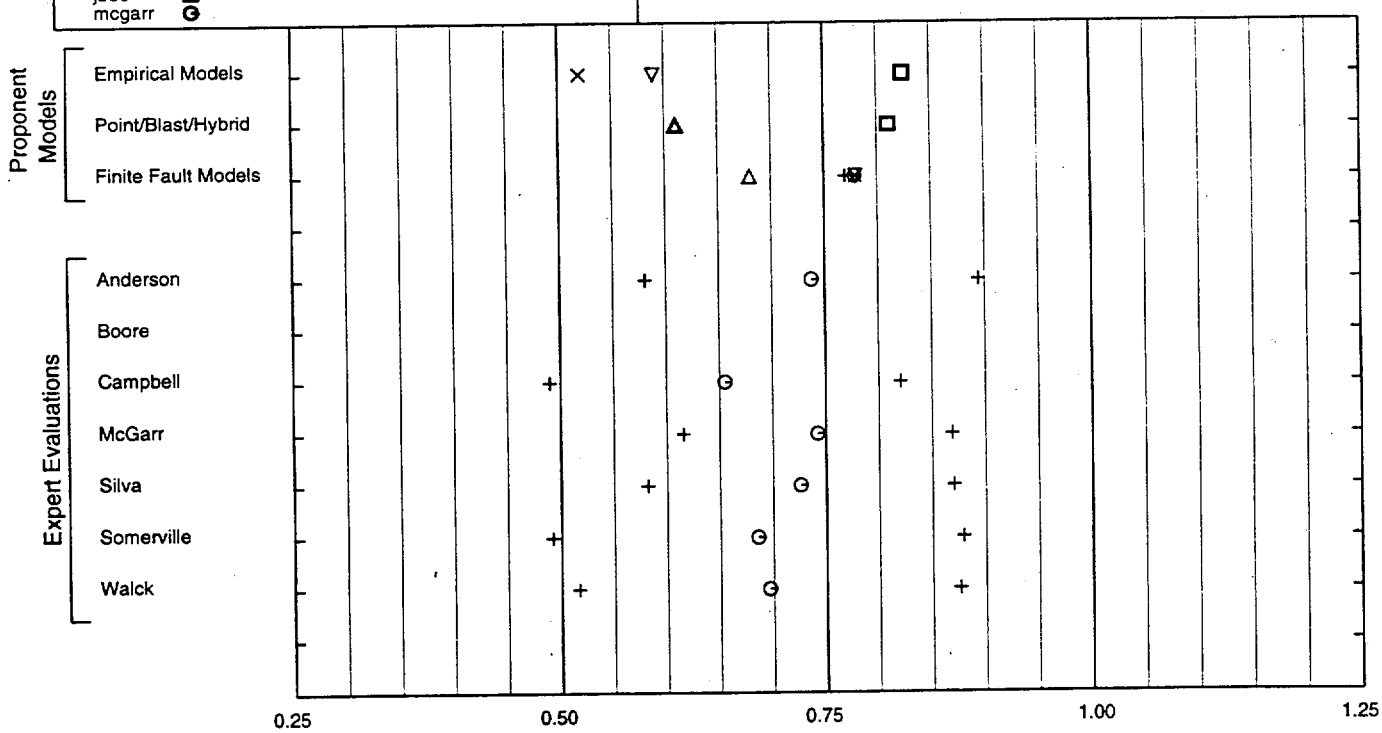


case 46, M= 7.0, shallow, xd= 50 km, HW, PGV, HOR, 6/5/97, Rev 1

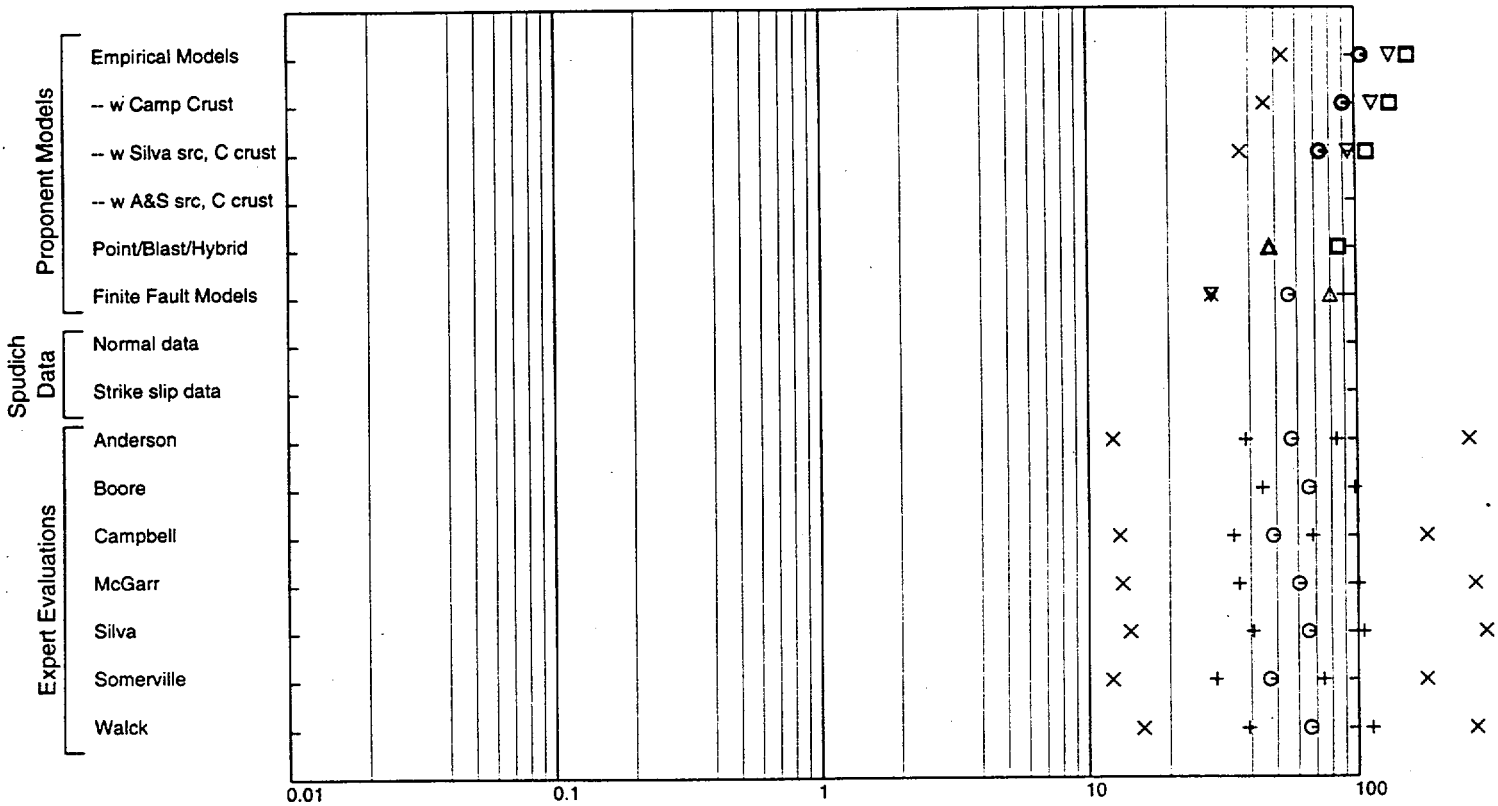


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

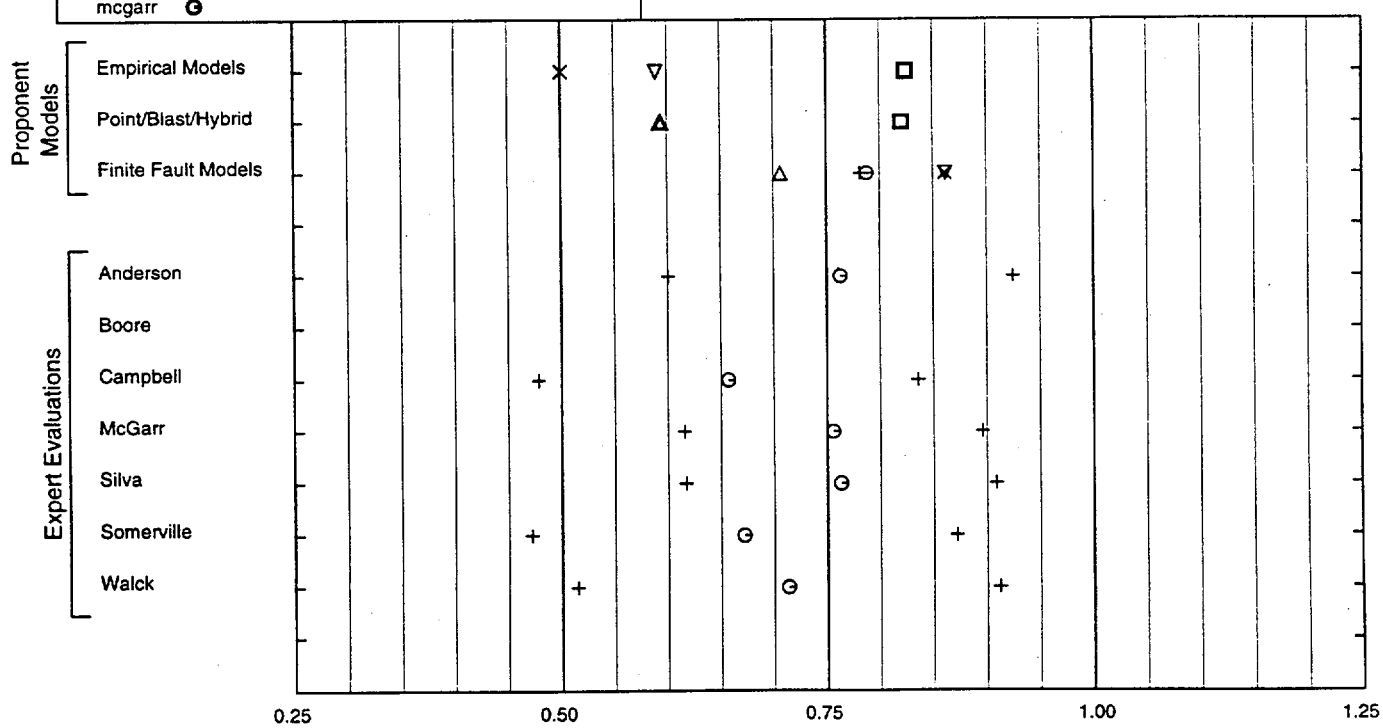


case 47, M= 7.5, shallow, xd= 1 km, SS, PGV, HOR, 6/5/97, Rev 1

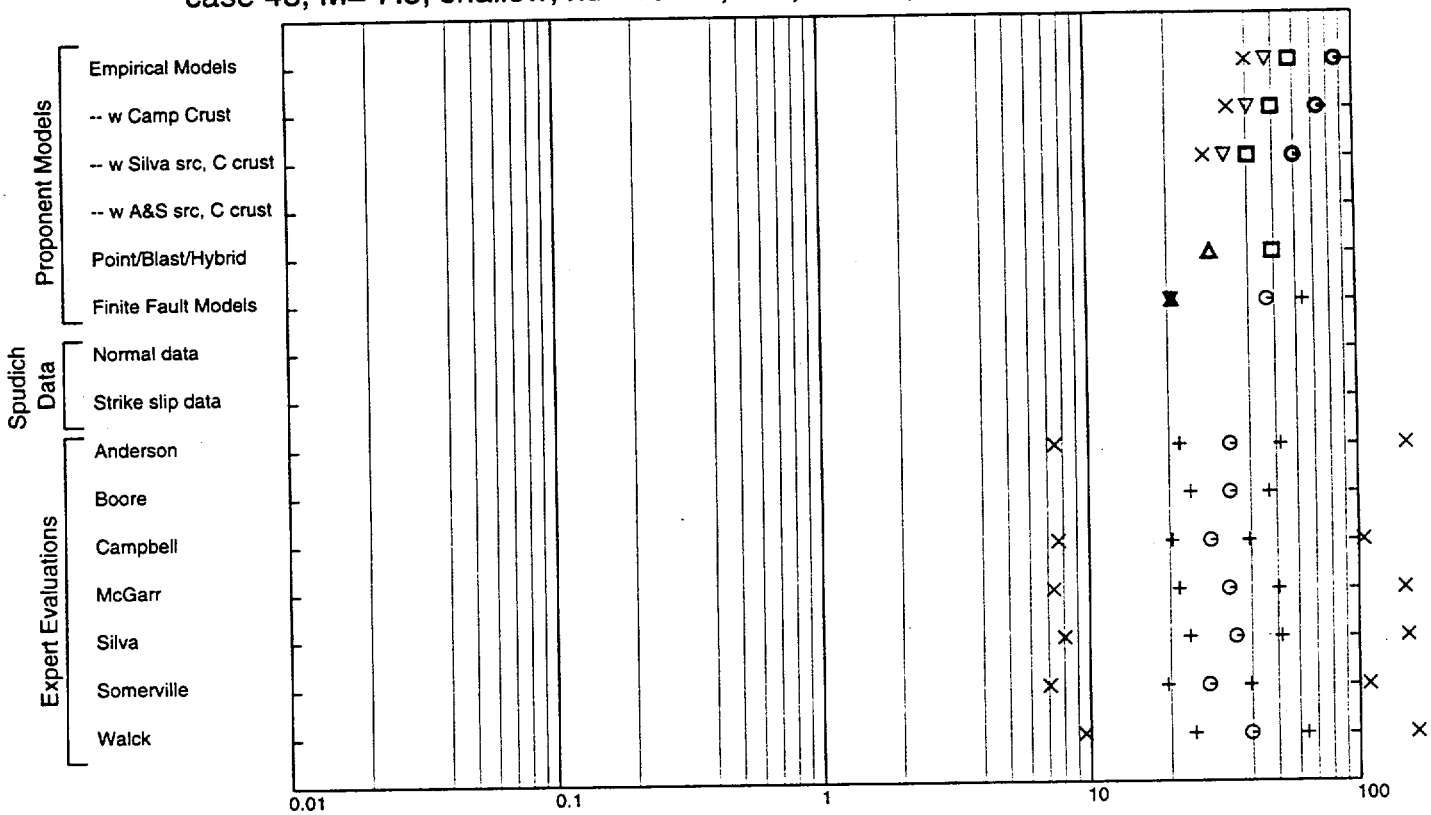


LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



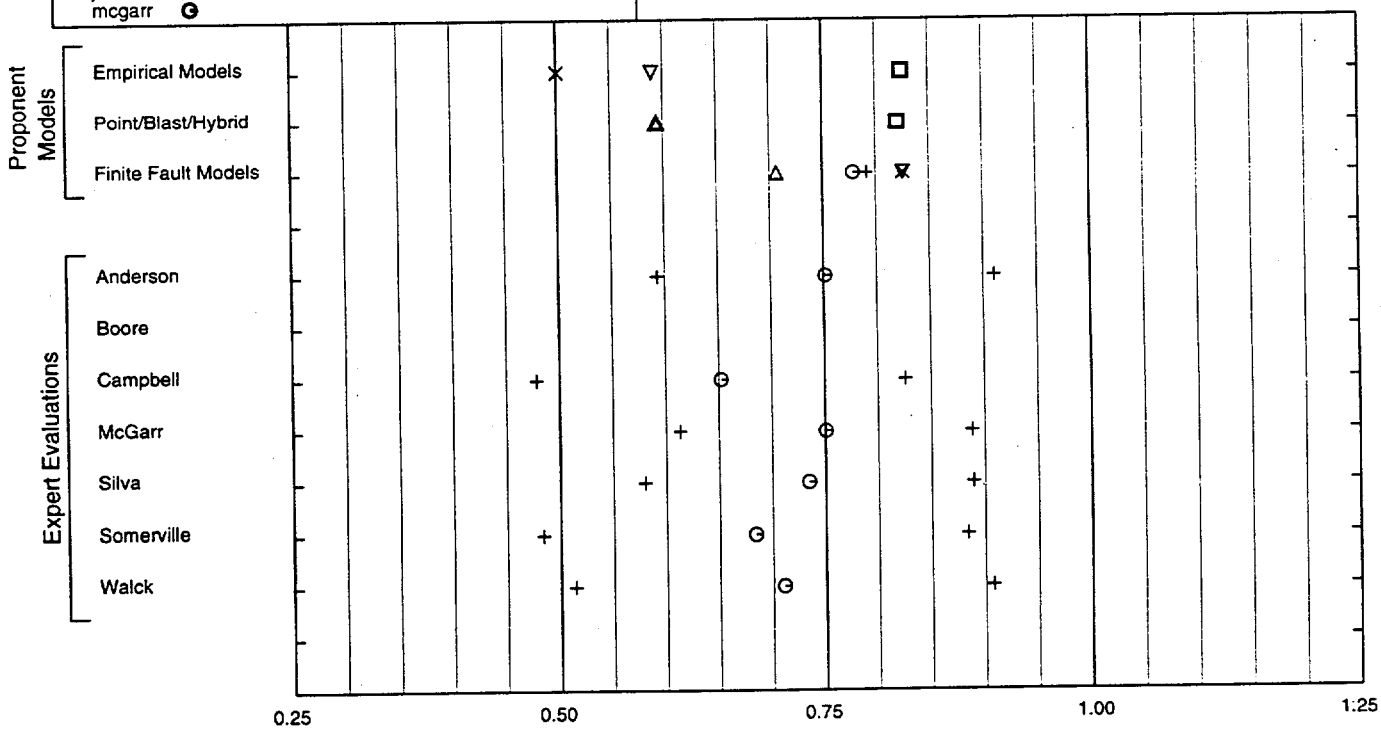
case 48, M= 7.5, shallow, xd= 10 km, SS, PGV, HOR, 6/5/97, Rev 1



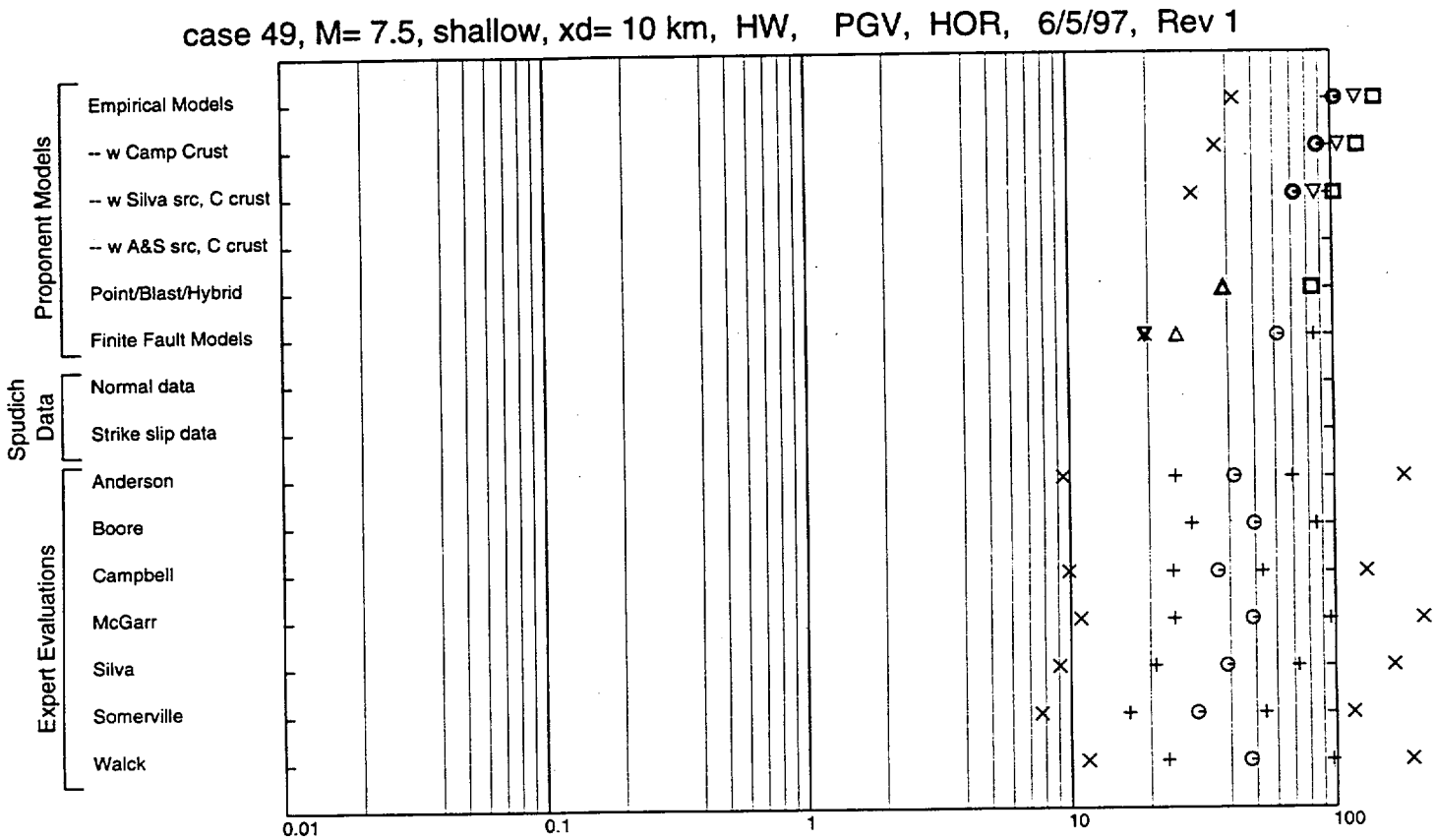
Velocity (cm/s)

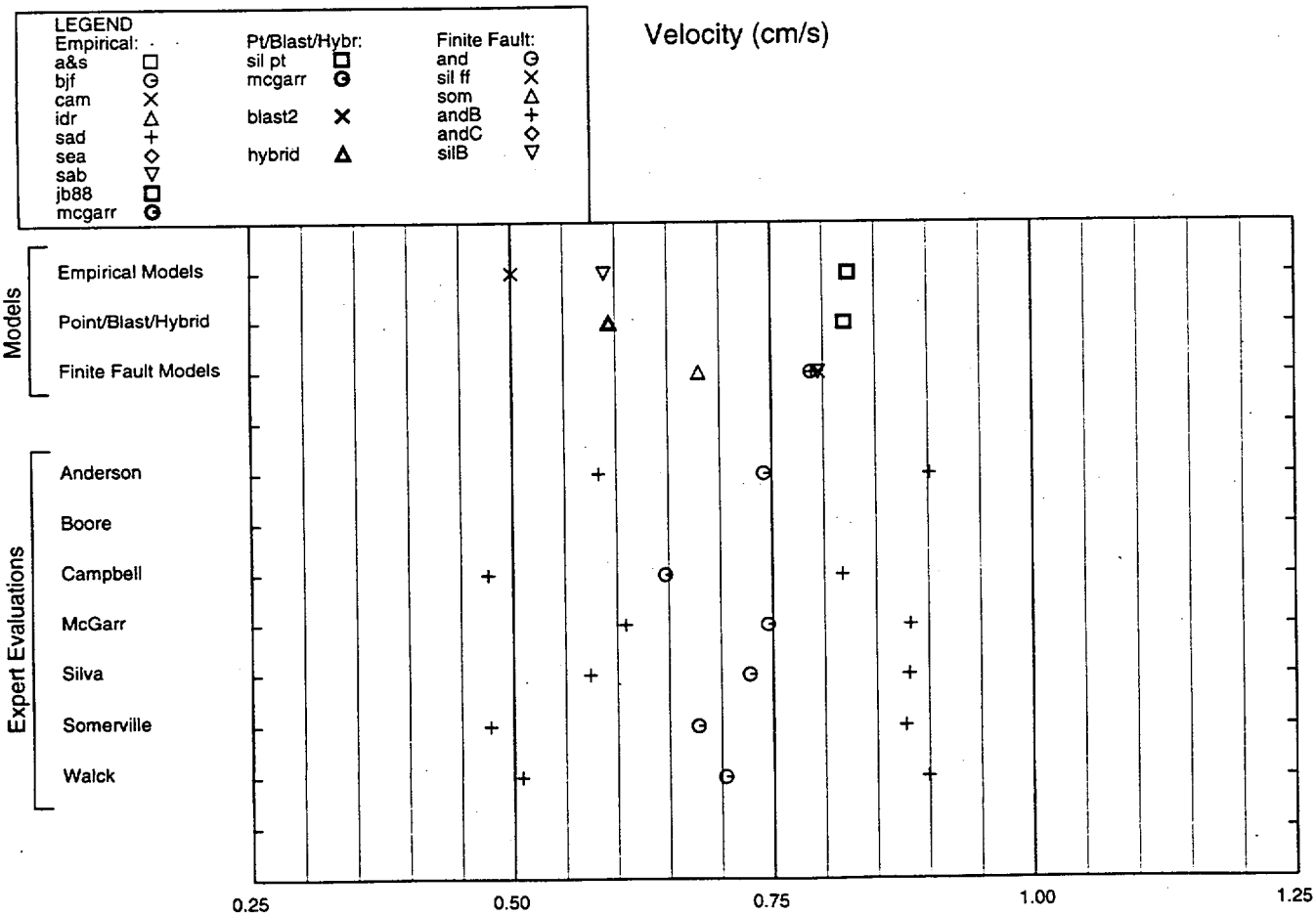
LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				

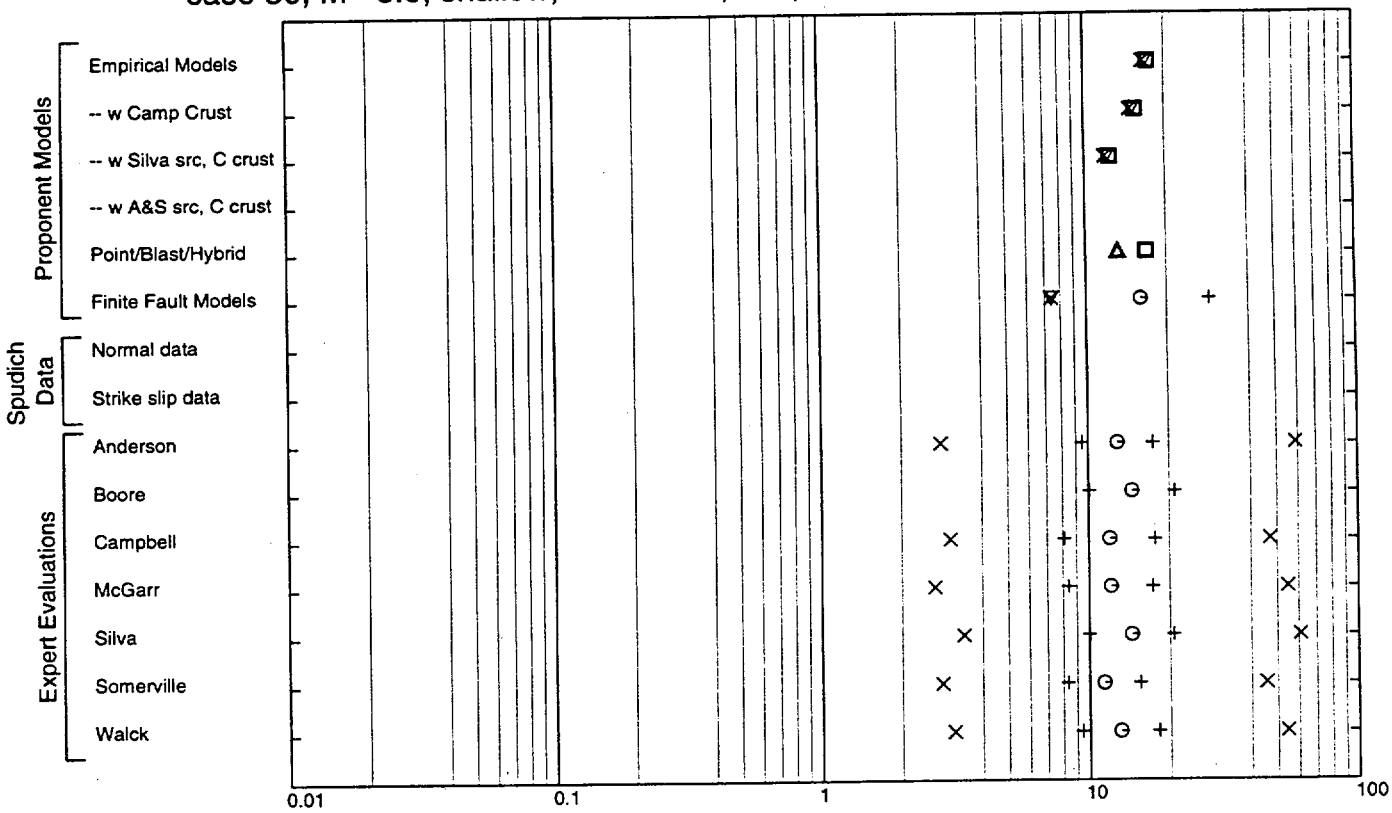


Aleatory Sigma (LN units) w/ Comp Var.


case 49, M= 7.5, shallow, xd= 10 km, HW, PGV, HOR, 6/5/97, Rev 1
Proponent Models
Empirical Models
-- w Camp Crust
-- w Silva src, C crust
-- w A&S src, C crust
Point/Blast/Hybrid
Finite Fault Models
Spudich Data
Normal data
Strike slip data
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.01
0.1
1
10
100
Velocity (cm/s)


LEGEND
Empirical:
a&s
bjf
cam
idr
sad
sea
sab
jb88
mcgarr
Pt/Blast/Hybr:
sil pt
mcgarr
blast2
hybrid
Finite Fault:
and
sil ff
som
andB
andC
silB
Proponent Models
Empirical Models
Point/Blast/Hybrid
Finite Fault Models
Expert Evaluations
Anderson
Boore
Campbell
McGarr
Silva
Somerville
Walck
0.25
0.50
0.75
1.00
1.25
Aleatory Sigma (LN units) w/ Comp Var.

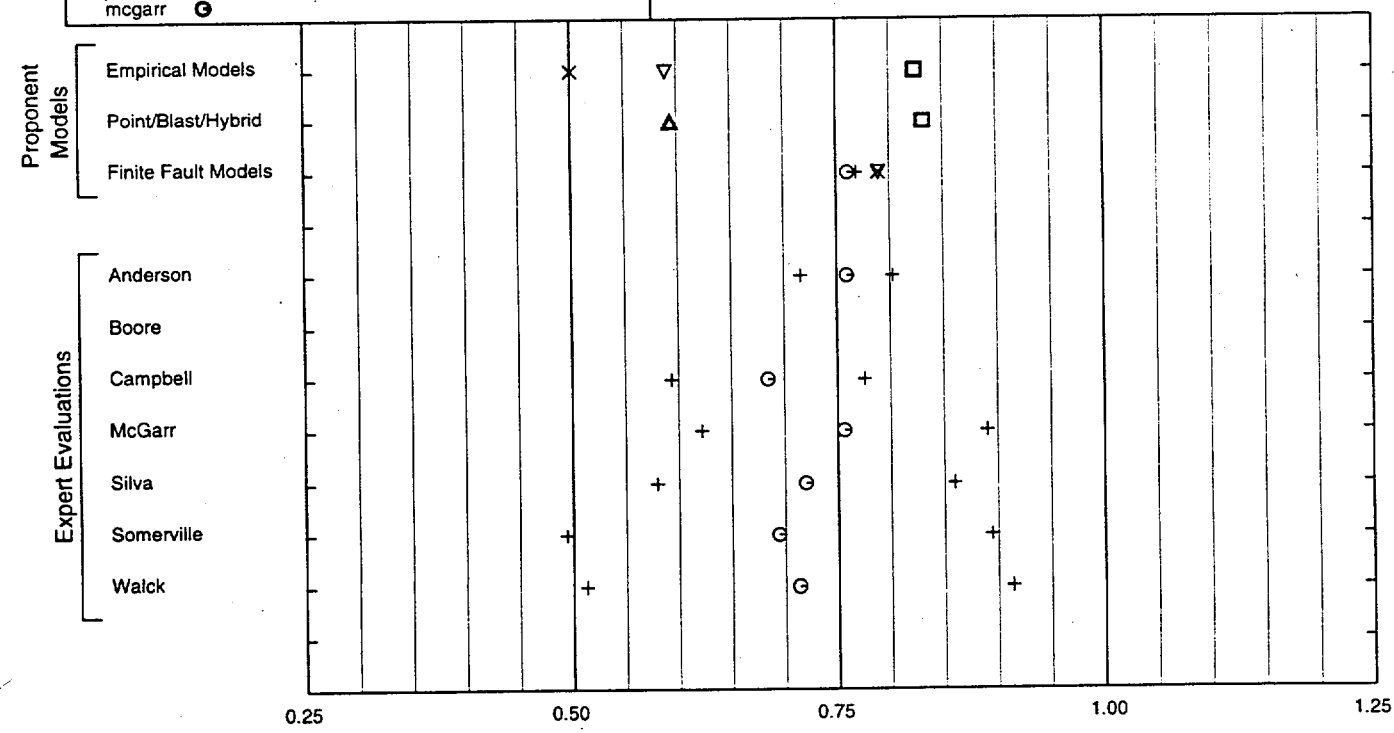
case 50, M= 8.0, shallow, xd= 50 km, SS, PGV, HOR, 6/5/97, Rev 1



Velocity (cm/s)

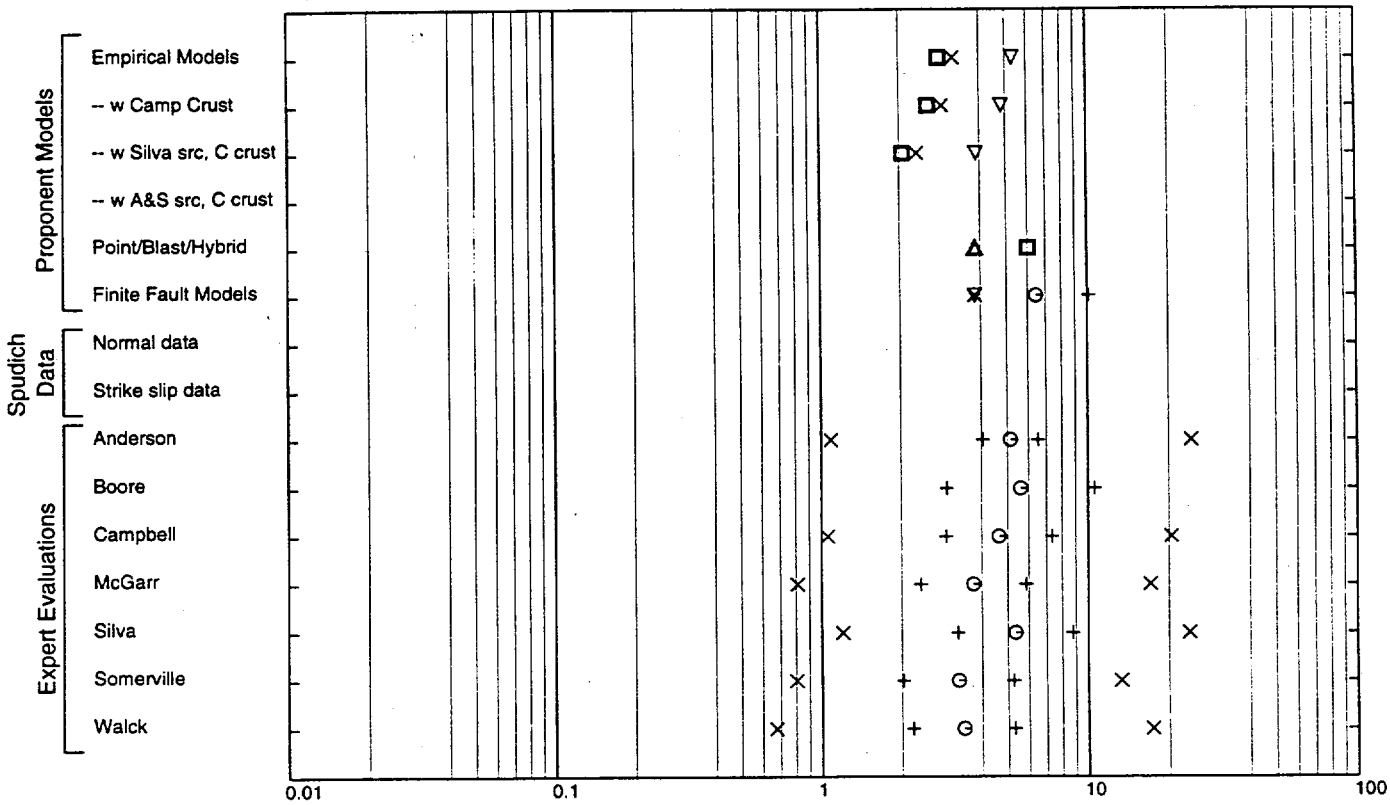
LEGEND

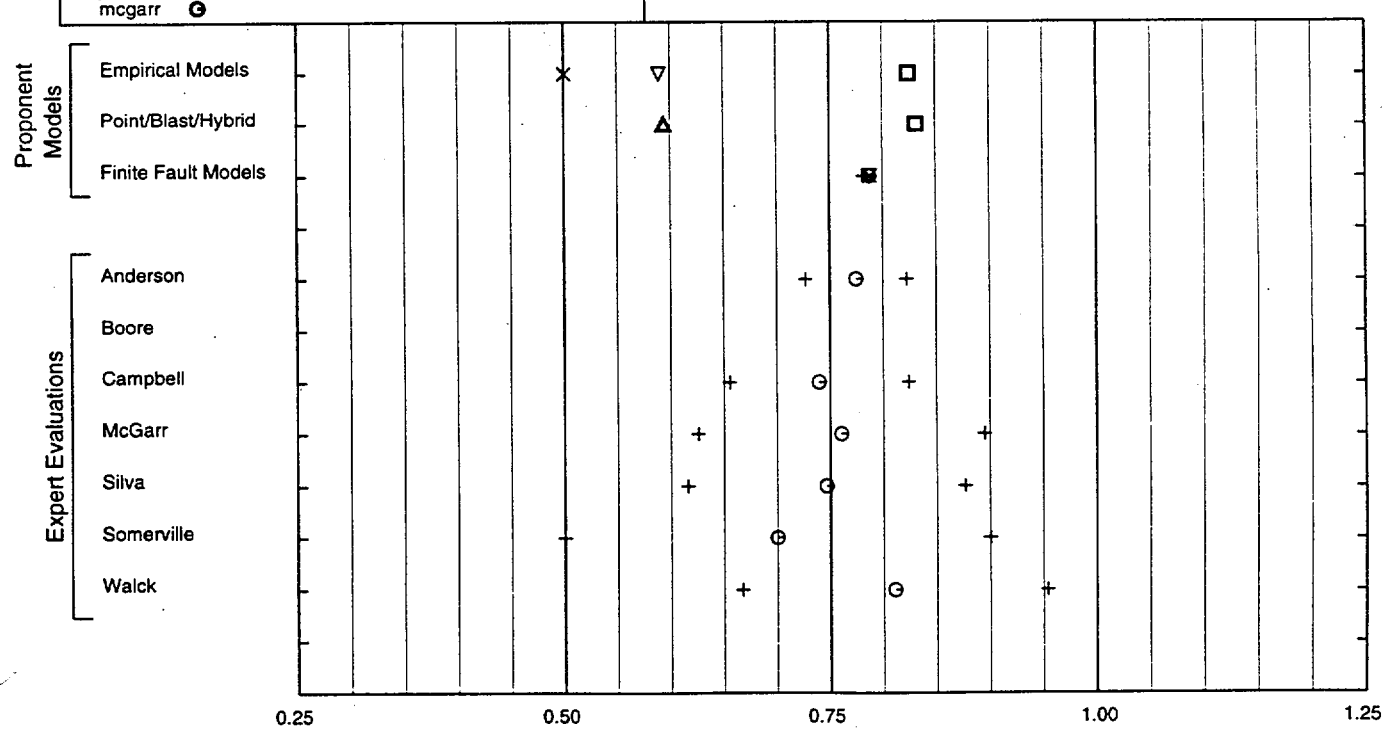
Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	▲	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖				



Aleatory Sigma (LN units) w/ Comp Var.

case 51, M= 8.0, shallow, xd=160 km, SS, PGV, HOR, 6/5/97, Rev 1



LEGEND

Empirical:		Pt/Blast/Hybr:		Finite Fault:	
a&s	□	sil pt	□	and	⊖
bjf	⊖	mcgarr	⊖	sil ff	×
cam	×			som	△
idr	△	blast2	×	andB	+
sad	+			andC	◇
sea	◇	hybrid	△	silB	▽
sab	▽				
jb88	□				
mcgarr	⊖