

H.B. Robinson (34.40° N, 80.16° E), Control Point Hazard

SA (g)	AFE 0.5 Hz	AFE 1 Hz	AFE 2.5 Hz	AFE 5 Hz	AFE 10 Hz	AFE 25 Hz	AFE 100 Hz
0.001000	8.752996e-03	1.447373e-02	2.099687e-02	2.213417e-02	2.233530e-02	2.210435e-02	2.087071e-02
0.001122	8.749623e-03	1.447363e-02	2.099673e-02	2.213417e-02	2.233526e-02	2.210435e-02	2.087071e-02
0.001259	8.574026e-03	1.446923e-02	2.099622e-02	2.213417e-02	2.233507e-02	2.210435e-02	2.087071e-02
0.001413	8.237725e-03	1.441793e-02	2.099461e-02	2.213415e-02	2.233431e-02	2.210435e-02	2.087071e-02
0.001585	7.829460e-03	1.424912e-02	2.098998e-02	2.213398e-02	2.233186e-02	2.210435e-02	2.087071e-02
0.001778	7.411577e-03	1.399124e-02	2.097826e-02	2.213297e-02	2.232515e-02	2.210432e-02	2.087071e-02
0.001995	7.013886e-03	1.366362e-02	2.095210e-02	2.212808e-02	2.230810e-02	2.210304e-02	2.087055e-02
0.002239	6.636731e-03	1.326255e-02	2.089965e-02	2.211026e-02	2.226671e-02	2.208362e-02	2.086688e-02
0.002512	6.277383e-03	1.280688e-02	2.080372e-02	2.206202e-02	2.218261e-02	2.198927e-02	2.083348e-02
0.002818	5.933491e-03	1.231823e-02	2.064293e-02	2.196400e-02	2.204914e-02	2.181292e-02	2.068699e-02
0.003162	5.601857e-03	1.180290e-02	2.039926e-02	2.180825e-02	2.187011e-02	2.158905e-02	2.035245e-02
0.003548	5.280146e-03	1.125870e-02	2.006790e-02	2.159861e-02	2.164820e-02	2.132456e-02	1.989384e-02
0.003981	4.965485e-03	1.068853e-02	1.965742e-02	2.133867e-02	2.138197e-02	2.101401e-02	1.937193e-02
0.004467	4.656031e-03	1.010372e-02	1.917993e-02	2.102762e-02	2.106795e-02	2.065404e-02	1.879363e-02
0.005012	4.349879e-03	9.518593e-03	1.864423e-02	2.066342e-02	2.070244e-02	2.024227e-02	1.815971e-02
0.005623	4.046127e-03	8.944354e-03	1.805613e-02	2.024423e-02	2.028229e-02	1.977652e-02	1.747420e-02
0.006310	3.744378e-03	8.386964e-03	1.742059e-02	1.976837e-02	1.980532e-02	1.925587e-02	1.674196e-02
0.007079	3.445051e-03	7.848648e-03	1.674255e-02	1.923467e-02	1.927090e-02	1.868158e-02	1.596871e-02
0.007943	3.149535e-03	7.329656e-03	1.602720e-02	1.864301e-02	1.867999e-02	1.805682e-02	1.516224e-02
0.008913	2.860909e-03	6.829611e-03	1.527997e-02	1.799468e-02	1.803514e-02	1.738591e-02	1.433182e-02
0.010000	2.584892e-03	6.347884e-03	1.450659e-02	1.729245e-02	1.734050e-02	1.667479e-02	1.348743e-02
0.011220	2.321390e-03	5.883917e-03	1.371306e-02	1.654069e-02	1.660173e-02	1.593022e-02	1.263882e-02
0.012589	2.071624e-03	5.437321e-03	1.290562e-02	1.574546e-02	1.582590e-02	1.516024e-02	1.179587e-02
0.014125	1.835411e-03	5.007890e-03	1.209082e-02	1.491446e-02	1.502117e-02	1.437309e-02	1.096746e-02
0.015849	1.614231e-03	4.595719e-03	1.127547e-02	1.405676e-02	1.419645e-02	1.357731e-02	1.016196e-02
0.017783	1.409239e-03	4.201396e-03	1.046657e-02	1.318245e-02	1.336094e-02	1.278085e-02	9.386129e-03
0.019953	1.220200e-03	3.826405e-03	9.671172e-03	1.230217e-02	1.252381e-02	1.199126e-02	8.645629e-03
0.022387	1.047110e-03	3.471377e-03	8.896183e-03	1.142663e-02	1.169380e-02	1.121525e-02	7.944323e-03
0.025119	8.908011e-04	3.136105e-03	8.148121e-03	1.056607e-02	1.087890e-02	1.045865e-02	7.284047e-03
0.028184	7.517148e-04	2.821127e-03	7.432849e-03	9.729797e-03	1.008604e-02	9.726040e-03	6.657059e-03
0.031623	6.290155e-04	2.526631e-03	6.755301e-03	8.925778e-03	9.320927e-03	9.017680e-03	6.032148e-03
0.035481	5.220036e-04	2.252310e-03	6.119249e-03	8.160375e-03	8.587793e-03	8.303045e-03	5.401395e-03
0.039811	4.296439e-04	1.997984e-03	5.527161e-03	7.438138e-03	7.889203e-03	7.552365e-03	4.805491e-03
0.044668	3.508698e-04	1.763562e-03	4.980144e-03	6.761502e-03	7.224684e-03	6.814048e-03	4.263147e-03
0.050119	2.842308e-04	1.548713e-03	4.477988e-03	6.130341e-03	6.589090e-03	6.122694e-03	3.772300e-03
0.056234	2.284184e-04	1.352859e-03	4.019287e-03	5.542033e-03	5.979206e-03	5.484373e-03	3.326845e-03
0.063096	1.821045e-04	1.175321e-03	3.601641e-03	4.993413e-03	5.400184e-03	4.897283e-03	2.920982e-03
0.070795	1.440945e-04	1.015261e-03	3.221913e-03	4.483558e-03	4.858796e-03	4.358455e-03	2.550176e-03
0.079433	1.131913e-04	8.718322e-04	2.876531e-03	4.013339e-03	4.357959e-03	3.864471e-03	2.211080e-03
0.089125	8.828443e-05	7.441730e-04	2.561864e-03	3.582361e-03	3.896933e-03	3.411827e-03	1.901674e-03
0.100000	6.839692e-05	6.312951e-04	2.274586e-03	3.188162e-03	3.473158e-03	2.997256e-03	1.619957e-03
0.112202	5.268530e-05	5.321711e-04	2.011888e-03	2.827535e-03	3.083646e-03	2.617840e-03	1.359775e-03
0.125893	4.039094e-05	4.457733e-04	1.771483e-03	2.497412e-03	2.725597e-03	2.270519e-03	1.117119e-03
0.141254	3.084840e-05	3.710297e-04	1.551517e-03	2.195063e-03	2.396602e-03	1.952789e-03	8.967460e-04
0.158489	2.347718e-05	3.068077e-04	1.350457e-03	1.918089e-03	2.094531e-03	1.664423e-03	7.069231e-04

0.177828	1.782660e-05	2.519773e-04	1.167026e-03	1.664397e-03	1.817152e-03	1.404531e-03	5.482419e-04
0.199526	1.351576e-05	2.054480e-04	1.000210e-03	1.432265e-03	1.562641e-03	1.173507e-03	4.174624e-04
0.223872	1.024361e-05	1.661993e-04	8.492770e-04	1.220491e-03	1.330555e-03	9.706000e-04	3.120963e-04
0.251189	7.766797e-06	1.333021e-04	7.137362e-04	1.028490e-03	1.120605e-03	7.938965e-04	2.292200e-04
0.281838	5.892584e-06	1.059597e-04	5.931908e-04	8.561323e-04	9.320545e-04	6.414230e-04	1.657034e-04
0.316228	4.473001e-06	8.346228e-05	4.871931e-04	7.033686e-04	7.645772e-04	5.108721e-04	1.179849e-04
0.354813	3.395790e-06	6.513303e-05	3.951721e-04	5.699014e-04	6.179069e-04	4.012124e-04	8.258634e-05
0.398107	2.576927e-06	5.031855e-05	3.164074e-04	4.550951e-04	4.913119e-04	3.106631e-04	5.675637e-05
0.446684	1.954234e-06	3.842793e-05	2.499975e-04	3.580402e-04	3.842403e-04	2.372177e-04	3.829410e-05
0.501187	1.480534e-06	2.896150e-05	1.948434e-04	2.775535e-04	2.959658e-04	1.788330e-04	2.537855e-05
0.562341	1.120842e-06	2.151273e-05	1.496991e-04	2.120931e-04	2.246243e-04	1.331015e-04	1.659737e-05
0.630957	8.487933e-07	1.575592e-05	1.132764e-04	1.597794e-04	1.678399e-04	9.761368e-05	1.066771e-05
0.707946	6.435465e-07	1.140804e-05	8.433991e-05	1.185946e-04	1.233650e-04	7.033805e-05	6.745472e-06
0.794328	4.886880e-07	8.193929e-06	6.174466e-05	8.661957e-05	8.913481e-05	4.987346e-05	4.202741e-06
0.891251	3.716140e-07	5.850924e-06	4.443502e-05	6.217866e-05	6.324762e-05	3.479449e-05	2.572303e-06
1.000000	2.827745e-07	4.152423e-06	3.144044e-05	4.386184e-05	4.403599e-05	2.381346e-05	1.542512e-06
1.122019	2.150054e-07	2.923393e-06	2.188010e-05	3.045203e-05	3.006124e-05	1.597975e-05	9.058182e-07
1.258925	1.631500e-07	2.039456e-06	1.497806e-05	2.085394e-05	2.009610e-05	1.049945e-05	5.196670e-07
1.412538	1.234683e-07	1.412643e-06	1.007944e-05	1.410207e-05	1.315644e-05	6.730539e-06	2.909951e-07
1.584893	9.313281e-08	9.759606e-07	6.658080e-06	9.409352e-06	8.455967e-06	4.202196e-06	1.578682e-07
1.778279	6.991620e-08	6.751666e-07	4.312188e-06	6.181446e-06	5.346683e-06	2.558422e-06	8.184510e-08
1.995262	5.215384e-08	4.673845e-07	2.740167e-06	3.988016e-06	3.325018e-06	1.517736e-06	4.024036e-08
2.238721	3.861229e-08	3.221254e-07	1.712308e-06	2.521783e-06	2.031394e-06	8.727472e-07	1.872737e-08
2.511886	2.833893e-08	2.200982e-07	1.055298e-06	1.562516e-06	1.217150e-06	4.829077e-07	8.060216e-09
2.818383	2.059538e-08	1.492787e-07	6.429683e-07	9.500576e-07	7.114502e-07	2.552085e-07	3.043746e-09
3.162278	1.481606e-08	1.011158e-07	3.875104e-07	5.677751e-07	4.011371e-07	1.273275e-07	8.887860e-10
3.548134	1.055835e-08	6.882973e-08	2.306851e-07	3.333767e-07	2.155373e-07	5.874388e-08	1.502358e-10
3.981072	7.461598e-09	4.720266e-08	1.353528e-07	1.917318e-07	1.098622e-07	2.436770e-08	1.063061e-11
4.466836	5.232156e-09	3.255350e-08	7.823774e-08	1.074983e-07	5.294692e-08	8.819439e-09	2.548474e-13
5.011872	3.639225e-09	2.247256e-08	4.466367e-08	5.845334e-08	2.356240e-08	2.710102e-09	1.855635e-15
5.623413	2.675563e-09	1.650633e-08	2.948881e-08	3.690561e-08	1.327557e-08	1.427197e-09	9.278186e-16
6.309573	1.711901e-09	1.054011e-08	1.431396e-08	1.535789e-08	2.988745e-09	1.442911e-10	2.275952e-21

H.B. Robinson (34.40° N, 80.16° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.084126	0.111331	0.226125
0.561009	0.099062	0.135079	0.276421
0.629463	0.117567	0.163926	0.337325
0.706269	0.142342	0.200989	0.414900
0.792447	0.176339	0.249280	0.514735
0.889140	0.225756	0.307913	0.630138
0.997631	0.288413	0.367279	0.738844
1.000000	0.289820	0.368553	0.741146
1.122019	0.362173	0.450194	0.900186
1.258925	0.428140	0.521492	1.037466
1.412538	0.488196	0.582372	1.152559
1.584893	0.541695	0.638691	1.260335

1.778279	0.582866	0.673785	1.323031
1.995262	0.613211	0.699157	1.368129
2.238721	0.639487	0.715556	1.393663
2.500000	0.662416	0.729694	1.415644
2.805046	0.685088	0.750345	1.453619
3.147313	0.713733	0.778107	1.505658
3.531344	0.746725	0.808646	1.562137
3.962233	0.766654	0.822937	1.586242
4.445698	0.765914	0.820399	1.580509
4.988156	0.753599	0.808278	1.557675
5.000000	0.753356	0.808005	1.557142
5.610092	0.726717	0.775097	1.491642
6.294627	0.708176	0.754638	1.451940
7.062688	0.712693	0.753158	1.446083
7.924466	0.718660	0.758689	1.456329
8.891397	0.743886	0.776962	1.487423
9.976312	0.762121	0.792899	1.516447
10.000000	0.762613	0.793297	1.517154
11.220185	0.757984	0.799483	1.534290
12.589254	0.745254	0.787720	1.512514
14.125375	0.718637	0.756245	1.450479
15.848932	0.695981	0.733904	1.408350
17.782794	0.669800	0.709184	1.362301
19.952623	0.645646	0.683531	1.312985
22.387211	0.625325	0.663371	1.274912
25.000000	0.599569	0.631639	1.211819
28.050461	0.569344	0.596755	1.143437
31.473135	0.541325	0.568991	1.091008
35.313439	0.516308	0.538068	1.029509
39.622330	0.489502	0.507650	0.970125
44.456985	0.469866	0.483799	0.922887
49.881558	0.449697	0.459853	0.875699
55.968028	0.431410	0.439147	0.835316
62.797161	0.414206	0.419992	0.798102
70.459573	0.398617	0.402643	0.764403
79.056942	0.382964	0.385932	0.732252
88.703347	0.367962	0.370699	0.703294
99.526793	0.355226	0.358293	0.679959
100.000000	0.333566	0.337620	0.641285