

Byron (42.08° N, 89.28° 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	6.884403e-03	1.198352e-02	1.852687e-02	1.986736e-02	2.013072e-02	1.981832e-02	1.824662e-02
0.001122	6.478352e-03	1.142526e-02	1.830924e-02	1.980629e-02	2.012515e-02	1.980871e-02	1.820853e-02
0.001259	6.084691e-03	1.077196e-02	1.796419e-02	1.965138e-02	2.010732e-02	1.969360e-02	1.800109e-02
0.001413	5.715546e-03	1.013460e-02	1.750344e-02	1.942612e-02	2.006288e-02	1.948499e-02	1.759597e-02
0.001585	5.369421e-03	9.512538e-03	1.696287e-02	1.913859e-02	1.997214e-02	1.921769e-02	1.706640e-02
0.001778	5.045073e-03	8.911552e-03	1.637993e-02	1.879471e-02	1.981880e-02	1.890067e-02	1.647630e-02
0.001995	4.741104e-03	8.333070e-03	1.575552e-02	1.839724e-02	1.960420e-02	1.853532e-02	1.584231e-02
0.002239	4.455295e-03	7.780976e-03	1.509521e-02	1.794763e-02	1.933929e-02	1.812124e-02	1.516963e-02
0.002512	4.186533e-03	7.254962e-03	1.440370e-02	1.744609e-02	1.902748e-02	1.765832e-02	1.446599e-02
0.002818	3.931601e-03	6.756999e-03	1.368821e-02	1.689373e-02	1.866681e-02	1.714706e-02	1.373886e-02
0.003162	3.689780e-03	6.286505e-03	1.295492e-02	1.629315e-02	1.825555e-02	1.658946e-02	1.299607e-02
0.003548	3.457046e-03	5.843503e-03	1.221235e-02	1.564871e-02	1.779307e-02	1.598924e-02	1.224545e-02
0.003981	3.233212e-03	5.426745e-03	1.146681e-02	1.496582e-02	1.727989e-02	1.535180e-02	1.149480e-02
0.004467	3.014034e-03	5.034288e-03	1.072662e-02	1.425085e-02	1.671798e-02	1.468265e-02	1.075060e-02
0.005012	2.799870e-03	4.664675e-03	9.997108e-03	1.351098e-02	1.611090e-02	1.398866e-02	1.001826e-02
0.005623	2.587302e-03	4.314297e-03	9.285031e-03	1.275356e-02	1.546345e-02	1.327608e-02	9.301787e-03
0.006310	2.377358e-03	3.981871e-03	8.594344e-03	1.198635e-02	1.478140e-02	1.255199e-02	8.604037e-03
0.007079	2.168433e-03	3.662952e-03	7.929201e-03	1.121649e-02	1.407121e-02	1.182251e-02	7.926947e-03
0.007943	1.961968e-03	3.356667e-03	7.291614e-03	1.045079e-02	1.333979e-02	1.109377e-02	7.271722e-03
0.008913	1.758573e-03	3.059262e-03	6.682612e-03	9.694877e-03	1.259417e-02	1.037061e-02	6.639238e-03
0.010000	1.559911e-03	2.770846e-03	6.102478e-03	8.953727e-03	1.184118e-02	9.657608e-03	6.030499e-03
0.011220	1.368562e-03	2.489706e-03	5.549670e-03	8.231046e-03	1.108717e-02	8.958398e-03	5.446967e-03
0.012589	1.185727e-03	2.216844e-03	5.023310e-03	7.529729e-03	1.033782e-02	8.276166e-03	4.893142e-03
0.014125	1.015217e-03	1.954214e-03	4.521446e-03	6.852032e-03	9.598051e-03	7.613392e-03	4.373227e-03
0.015849	8.569247e-04	1.703524e-03	4.042900e-03	6.199708e-03	8.872068e-03	6.972580e-03	3.885045e-03
0.017783	7.141909e-04	1.466890e-03	3.587065e-03	5.574338e-03	8.163399e-03	6.354321e-03	3.429105e-03
0.019953	5.865695e-04	1.246194e-03	3.154660e-03	4.977993e-03	7.475076e-03	5.761297e-03	3.008005e-03
0.022387	4.758463e-04	1.045030e-03	2.747987e-03	4.413182e-03	6.809847e-03	5.196142e-03	2.623348e-03
0.025119	3.800688e-04	8.632576e-04	2.368825e-03	3.882510e-03	6.170414e-03	4.662320e-03	2.275808e-03
0.028184	2.998221e-04	7.033012e-04	2.019825e-03	3.389182e-03	5.559712e-03	4.161130e-03	1.964981e-03
0.031623	2.329278e-04	5.642579e-04	1.702150e-03	2.935661e-03	4.980890e-03	3.694009e-03	1.689411e-03
0.035481	1.788899e-04	4.466697e-04	1.417869e-03	2.522885e-03	4.436800e-03	3.261785e-03	1.447144e-03
0.039811	1.353594e-04	3.481835e-04	1.166857e-03	2.151419e-03	3.929390e-03	2.865320e-03	1.235667e-03
0.044668	1.013574e-04	2.680652e-04	9.496461e-04	1.820729e-03	3.459499e-03	2.504384e-03	1.052230e-03
0.050119	7.484525e-05	2.035673e-04	7.643384e-04	1.529846e-03	3.027412e-03	2.178515e-03	8.938748e-04
0.056234	5.477359e-05	1.529233e-04	6.092150e-04	1.276753e-03	2.633308e-03	1.886399e-03	7.577426e-04
0.063096	3.959771e-05	1.135217e-04	4.811423e-04	1.059041e-03	2.277047e-03	1.626497e-03	6.410844e-04
0.070795	2.842943e-05	8.356095e-05	3.770520e-04	8.735844e-04	1.957908e-03	1.396753e-03	5.412329e-04
0.079433	2.021565e-05	6.097464e-05	2.934380e-04	7.171141e-04	1.674561e-03	1.194980e-03	4.545746e-04
0.089125	1.431645e-05	4.425380e-05	2.271392e-04	5.861362e-04	1.425127e-03	1.018761e-03	3.786754e-04
0.100000	1.008115e-05	3.196422e-05	1.751001e-04	4.772932e-04	1.207305e-03	8.657028e-04	3.141707e-04
0.112202	7.095796e-06	2.304872e-05	1.346277e-04	3.873366e-04	1.018494e-03	7.334262e-04	2.601470e-04
0.125893	4.991681e-06	1.661649e-05	1.033593e-04	3.133839e-04	8.559348e-04	6.196855e-04	2.150090e-04
0.141254	3.523782e-06	1.200515e-05	7.931315e-05	2.528895e-04	7.168107e-04	5.221718e-04	1.773540e-04
0.158489	2.500410e-06	8.709658e-06	6.089045e-05	2.036226e-04	5.983414e-04	4.386636e-04	1.459546e-04

0.177828	1.786533e-06	6.352241e-06	4.678959e-05	1.636331e-04	4.978417e-04	3.675435e-04	1.196803e-04
0.199526	1.288291e-06	4.664464e-06	3.600055e-05	1.312687e-04	4.128315e-04	3.071720e-04	9.775274e-05
0.223872	9.363952e-07	3.446352e-06	2.773281e-05	1.051400e-04	3.411805e-04	2.561230e-04	7.957583e-05
0.251189	6.881841e-07	2.564700e-06	2.138782e-05	8.408662e-05	2.811161e-04	2.131057e-04	6.453855e-05
0.281838	5.094510e-07	1.918957e-06	1.650794e-05	6.714421e-05	2.310485e-04	1.769413e-04	5.213333e-05
0.316228	3.804706e-07	1.443350e-06	1.274595e-05	5.352328e-05	1.894743e-04	1.465576e-04	4.193929e-05
0.354813	2.856388e-07	1.088793e-06	9.838763e-06	4.258403e-05	1.550215e-04	1.210685e-04	3.356210e-05
0.398107	2.157741e-07	8.231007e-07	7.588609e-06	3.381062e-05	1.265175e-04	9.973012e-05	2.668617e-05
0.446684	1.630519e-07	6.223294e-07	5.844932e-06	2.678292e-05	1.029941e-04	8.191071e-05	2.104914e-05
0.501187	1.231872e-07	4.700608e-07	4.492969e-06	2.116182e-05	8.363134e-05	6.706605e-05	1.644828e-05
0.562341	9.279444e-08	3.542164e-07	3.445014e-06	1.667315e-05	6.772357e-05	5.471692e-05	1.275914e-05
0.630957	6.963372e-08	2.659874e-07	2.633146e-06	1.309497e-05	5.466951e-05	4.445377e-05	9.826355e-06
0.707946	5.201471e-08	1.989166e-07	2.005453e-06	1.024858e-05	4.397054e-05	3.595090e-05	7.512273e-06
0.794328	3.861655e-08	1.480989e-07	1.520783e-06	7.989871e-06	3.522232e-05	2.893491e-05	5.699856e-06
0.891251	2.845202e-08	1.099968e-07	1.147878e-06	6.202391e-06	2.809029e-05	2.316101e-05	4.278972e-06
1.000000	2.077517e-08	8.141234e-08	8.620035e-07	4.791980e-06	2.229118e-05	1.842441e-05	3.176282e-06
1.122019	1.505692e-08	5.985566e-08	6.436435e-07	3.682976e-06	1.758934e-05	1.455568e-05	2.330186e-06
1.258925	1.080653e-08	4.361650e-08	4.775994e-07	2.814971e-06	1.379219e-05	1.141383e-05	1.687822e-06
1.412538	7.691266e-09	3.153244e-08	3.520930e-07	2.138702e-06	1.074132e-05	8.874368e-06	1.207449e-06
1.584893	5.412730e-09	2.259406e-08	2.578649e-07	1.614558e-06	8.305420e-06	6.840887e-06	8.549935e-07
1.778279	3.772551e-09	1.606147e-08	1.877702e-07	1.210323e-06	6.374128e-06	5.226445e-06	5.978812e-07
1.995262	2.596867e-09	1.128958e-08	1.361547e-07	9.002602e-07	4.852022e-06	3.951107e-06	4.126282e-07
2.238721	1.768738e-09	7.849778e-09	9.820442e-08	6.637310e-07	3.659198e-06	2.950905e-06	2.809515e-07
2.511886	1.187081e-09	5.370919e-09	7.029051e-08	4.842854e-07	2.731382e-06	2.174443e-06	1.886134e-07
2.818383	7.862049e-10	3.611528e-09	4.982262e-08	3.488622e-07	2.015752e-06	1.577041e-06	1.247772e-07
3.162278	5.111519e-10	2.383922e-09	3.493699e-08	2.473807e-07	1.468691e-06	1.123048e-06	8.127395e-08
3.548134	3.262566e-10	1.545490e-09	2.422370e-08	1.721201e-07	1.054711e-06	7.828213e-07	5.195169e-08
3.981072	2.024873e-10	9.791548e-10	1.659999e-08	1.172181e-07	7.451012e-07	5.325339e-07	3.253747e-08
4.466836	1.226443e-10	6.061876e-10	1.122839e-08	7.810135e-08	5.166823e-07	3.520423e-07	1.991144e-08
5.011872	7.143371e-11	3.639374e-10	7.471676e-09	5.098310e-08	3.506222e-07	2.241817e-07	1.191371e-08
5.623413	4.448232e-11	2.351280e-10	5.266119e-09	3.560969e-08	2.500297e-07	1.513424e-07	7.821120e-09
6.309573	1.753094e-11	1.063185e-10	3.060563e-09	2.023628e-08	1.494371e-07	7.850308e-08	3.728532e-09

Byron (42.08° N, 89.28° E), Response Spectra

Frequency (Hz)	UHRS 1E-4 (g)	GMRS (g)	UHRS 1E-5 (g)
0.500000	0.044898	0.051229	0.100265
0.561009	0.047909	0.054936	0.107653
0.629463	0.051103	0.058801	0.115326
0.706269	0.054526	0.062917	0.123486
0.792447	0.058221	0.067331	0.132224
0.889140	0.062137	0.071949	0.141337
0.997631	0.066094	0.076652	0.150634
1.000000	0.066175	0.076748	0.150825
1.122019	0.071534	0.085895	0.170272
1.258925	0.077522	0.095945	0.191638
1.412538	0.084462	0.107133	0.215303
1.584893	0.092226	0.119257	0.240827

1.778279	0.100671	0.132160	0.267893
1.995262	0.109619	0.145625	0.296065
2.238721	0.118788	0.159310	0.324654
2.500000	0.127714	0.172539	0.352258
2.805046	0.139497	0.195561	0.402970
3.147313	0.152211	0.218842	0.453798
3.531344	0.166114	0.242770	0.505480
3.962233	0.182075	0.268815	0.561132
4.445698	0.202437	0.300691	0.628621
4.988156	0.229729	0.342247	0.716030
5.000000	0.230359	0.343195	0.718019
5.610092	0.264341	0.401357	0.843690
6.294627	0.304813	0.467909	0.986291
7.062688	0.343095	0.529394	1.117330
7.924466	0.382171	0.590354	1.246342
8.891397	0.421721	0.648269	1.366936
9.976312	0.453426	0.692121	1.456840
10.000000	0.454028	0.692931	1.458488
11.220185	0.448768	0.686897	1.446839
12.589254	0.439488	0.675432	1.424134
14.125375	0.420671	0.650335	1.373242
15.848932	0.402298	0.626535	1.325427
17.782794	0.390872	0.612980	1.299004
19.952623	0.389272	0.613990	1.303013
22.387211	0.397469	0.629551	1.337438
25.000000	0.406444	0.642840	1.365178
28.050461	0.413524	0.652396	1.384601
31.473135	0.417038	0.655558	1.390051
35.313439	0.411698	0.645354	1.367457
39.622330	0.399510	0.624154	1.321430
44.456985	0.383566	0.597721	1.264660
49.881558	0.364423	0.565296	1.194688
55.968028	0.341570	0.528172	1.115346
62.797161	0.316501	0.487570	1.028640
70.459573	0.290079	0.444863	0.937487
79.056942	0.262977	0.401203	0.844379
88.703347	0.237185	0.360046	0.756810
99.526793	0.215584	0.325945	0.684444
100.000000	0.196963	0.298089	0.626104