

Table S1. Auditory brainstem response thresholds for six sciaenid fishes expressed as the relevant sound pressure (dB re: 1 mPa) recorded by the hydrophone and particle velocity (m s^{-1}) recorded by the geophone

Species	Sound pressure (dB re: 1 μPa) \pm s.e.m.	Recorded particle velocity (m s^{-1})	Calculated particle acceleration (m s^{-2}) \pm s.e.m.
<i>C. nebulosus</i>			
100 Hz	102.6 \pm 3.2	3.59310 ⁻⁵	0.023 \pm 0.008
200 Hz	100.2 \pm 2.7	2.03310 ⁻⁵	0.026 \pm 0.006
300 Hz	97.8 \pm 1.9	8.01310 ⁻⁶	0.015 \pm 0.003
400 Hz	97.5 \pm 2.1	2.59310 ⁻⁶	0.007 \pm 0.002
500 Hz	96.4 \pm 1.6	4.03310 ⁻⁶	0.013 \pm 0.002
600 Hz	105.9 \pm 2.7	1.17310 ⁻⁵	0.044 \pm 0.009
700 Hz	115.5 \pm 2.8	4.38310 ⁻⁵	0.193 \pm 0.043
800 Hz	123.6 \pm 1.0	3.80310 ⁻⁵	0.191 \pm 0.017
900 Hz	130.7 \pm 1.8	3.90310 ⁻⁵	0.220 \pm 0.028
1000 Hz	133.7 \pm 1.6	9.73310 ⁻⁵	0.611 \pm 0.093
1100 Hz	133.9 \pm 1.5	1.60310 ⁻⁴	1.10 \pm 0.168
1200 Hz	133.7 \pm 1.6	7.80310 ⁻⁵	0.587 \pm 0.078
<i>C. regalis</i>			
100 Hz	104.2 \pm 4.0	9.60310 ⁻⁶	0.006 \pm 0.002
200 Hz	100.0 \pm 4.3	7.20310 ⁻⁶	0.009 \pm 0.004
300 Hz	96.4 \pm 2.7	4.15310 ⁻⁶	0.008 \pm 0.002
400 Hz	98.8 \pm 2.9	5.30310 ⁻⁶	0.013 \pm 0.004
500 Hz	97.3 \pm 2.0	4.21310 ⁻⁶	0.013 \pm 0.002
600 Hz	96.5 \pm 1.4	3.75310 ⁻⁶	0.014 \pm 0.002
700 Hz	104.4 \pm 5.4	1.30310 ⁻⁵	0.057 \pm 0.030
800 Hz	106.7 \pm 6.8	1.90310 ⁻⁵	0.095 \pm 0.052
900 Hz	116.3 \pm 6.2	3.21310 ⁻⁵	0.018 \pm 0.067
1000 Hz	125.9 \pm 5.9	6.15310 ⁻⁵	0.387 \pm 0.124
1100 Hz	135.7 \pm 4.1	1.10310 ⁻⁴	0.697 \pm 0.133
1200 Hz	141.6 \pm 0.7	1.30310 ⁻⁴	0.979 \pm 0.010
<i>M. undulatus</i>			
100 Hz	95.8 \pm 3.3	4.41310 ⁻⁶	0.003 \pm 0.001
200 Hz	95.9 \pm 4.4	5.33310 ⁻⁶	0.007 \pm 0.003
300 Hz	94.9 \pm 2.3	3.47310 ⁻⁶	0.007 \pm 0.002
400 Hz	98.6 \pm 5.2	8.18310 ⁻⁶	0.021 \pm 0.013
500 Hz	100.3 \pm 5.2	8.04310 ⁻⁶	0.025 \pm 0.010
600 Hz	104.3 \pm 4.0	9.5310 ⁻⁶	0.036 \pm 0.011
700 Hz	109.3 \pm 4.8	1.65310 ⁻⁵	0.073 \pm 0.029
800 Hz	112.1 \pm 3.9	1.86310 ⁻⁵	0.094 \pm 0.032
900 Hz	115.0 \pm 3.6	2.24310 ⁻⁵	0.127 \pm 0.038
1000 Hz	121.5 \pm 3.2	3.48310 ⁻⁵	0.022 \pm 0.040
1100 Hz	127.4 \pm 2.7	5.27310 ⁻⁵	0.364 \pm 0.070
1200 Hz	135.1 \pm 4.0	9.62310 ⁻⁵	0.725 \pm 0.140
<i>S. ocellatus</i>			
100 Hz	102.6 \pm 1.6	6.63310 ⁻⁶	0.004 \pm 0.001
200 Hz	99.6 \pm 1.9	5.18310 ⁻⁶	0.007 \pm 0.001
300 Hz	99.3 \pm 3.3	5.83310 ⁻⁶	0.011 \pm 0.003
400 Hz	100.3 \pm 4.4	7.69310 ⁻⁶	0.019 \pm 0.009
500 Hz	103.8 \pm 4.5	1.03310 ⁻⁵	0.032 \pm 0.013
600 Hz	106.7 \pm 5.2	1.47310 ⁻⁵	0.056 \pm 0.025
700 Hz	111.2 \pm 5.2	2.09310 ⁻⁵	0.092 \pm 0.040
800 Hz	120.2 \pm 2.4	3.03310 ⁻⁵	0.152 \pm 0.027
900 Hz	127.6 \pm 1.6	5.08310 ⁻⁵	0.287 \pm 0.039
1000 Hz	133.4 \pm 0.7	7.47310 ⁻⁵	0.470 \pm 0.023
1100 Hz	132.3 \pm 1.0	6.98310 ⁻⁵	0.482 \pm 0.035
1200 Hz	131.4 \pm 1.1	6.54310 ⁻⁵	0.493 \pm 0.038
<i>L. xanthurus</i>			
100 Hz	101.0 \pm 3.6	7.23310 ⁻⁶	0.005 \pm 0.002
200 Hz	99.2 \pm 2.7	5.44310 ⁻⁶	0.007 \pm 0.002
300 Hz	103.7 \pm 4.2	9.52310 ⁻⁶	0.018 \pm 0.006
400 Hz	105.9 \pm 2.8	9.77310 ⁻⁶	0.025 \pm 0.005
500 Hz	112.7 \pm 2.4	1.69310 ⁻⁵	0.053 \pm 0.011
600 Hz	117.7 \pm 3.8	2.81310 ⁻⁵	0.106 \pm 0.030
700 Hz	121.7 \pm 3.8	3.72310 ⁻⁵	0.164 \pm 0.041
800 Hz	125.0 \pm 2.8	4.44310 ⁻⁵	0.223 \pm 0.039
900 Hz	126.2 \pm 2.7	4.78310 ⁻⁵	0.270 \pm 0.043
1000 Hz	127.2 \pm 2.8	5.14310 ⁻⁵	0.323 \pm 0.049
1100 Hz	137.5 \pm 2.3	1.04310 ⁻⁴	0.717 \pm 0.094
1200 Hz	141.0 \pm 0.2	1.25310 ⁻⁴	0.943 \pm 0.010
<i>M. saxatilis</i>			
100 Hz	110.23 \pm 2.2	1.35310 ⁻⁵	0.0085 \pm 0.002
200 Hz	101.72 \pm 3.3	7.27310 ⁻⁶	0.0091 \pm 0.003
300 Hz	97.88 \pm 4.0	6.01310 ⁻⁶	0.0113 \pm 0.006
400 Hz	99.63 \pm 1.9	5.21310 ⁻⁶	0.0131 \pm 0.002
500 Hz	98.61 \pm 1.3	4.56310 ⁻⁶	0.0143 \pm 0.002
600 Hz	100.44 \pm 2.3	5.75310 ⁻⁶	0.0217 \pm 0.004
700 Hz	98.58 \pm 2.8	5.03310 ⁻⁶	0.0221 \pm 0.005
800 Hz	97.84 \pm 2.9	4.79310 ⁻⁶	0.0241 \pm 0.006
900 Hz	107.31 \pm 2.4	1.08310 ⁻⁵	0.0611 \pm 0.015
1000 Hz	117.49 \pm 5.1	3.08310 ⁻⁵	0.1937 \pm 0.061
1100 Hz	140.63 \pm 0.5	1.22310 ⁻⁴	0.8453 \pm 0.027
1200 Hz	141.18 \pm 0.5	1.26310 ⁻⁴	0.9536 \pm 0.031

Particle acceleration (m s^{-2}) was calculated from the recorded particle velocity using Eqn 1.