Supplementary

Table 1. Propagation distance of the "570 – 2000 Hz band" for different levels of Wenz background noise for wind speeds between 0 and 18 kn and different ship traffic index. Min F = 200, Mean F = 330, Max F = 500.

		Distance (m)				Δd (m)			
Wind	**Ship traffic**	**ANL**	**Q.50**	**Q.90**	**Q0.90–10**	**ANL**	**Q.50**	**Q.90**	**Q0.90–10**
0 kn	**None**	**1501**	**1322**	**3829**	**793**				
	1	1372	1205	3527	730				
	2	1165	1018	3036	628	207	187	491	102
	3	812	702	2180	451	560	503	1347	279
	4	449	381	1266	262	923	824	2261	468
	5	212	176	637	132	1160	1029	2890	598
	6	94	75	300	62	1278	1130	3227	668
	7	40	31	138	29	1332	1174	3389	701
3 kn	**None**	**384**	**324**	**1097**	**227**				
	1	379	319	1082	224				
	2	367	309	1051	218	12	10	31	6
	3	334	281	965	200	45	38	117	24
	4	265	220	779	161	114	99	303	63
	5	167	137	511	106	212	182	571	118
	6	86	69	277	57	293	250	805	167
	7	39	30	134	28	340	289	948	196
6 kn	**None**	**219**	**181**	**654**	**135**				
	1	217	180	649	134				
	2	214	177	640	133	3	3	9	1
	3	204	169	614	127	13	11	35	7
	4	179	147	545	113	38	33	104	21
	5	132	108	412	85	85	72	237	49
	6	77	62	251	52	140	118	398	82
	7	38	29	130	27	179	151	519	107
9 kn	**None**	**142**	**116**	**439**	**91**				
	1	141	115	438	91				
	2	140	114	434	90	1	1	4	1
	3	136	111	424	88	5	4	14	3
	4	126	103	394	82	15	12	44	9
	5	103	83	327	68	38	32	111	23
	6	68	54	222	46	73	61	216	45
	7	36	28	124	26	105	87	314	65
12 kn	**None**	**98**	**79**	**314**	**65**				
	1	98	79	314	65				
	2	98	79	314	65	0	0	0	0
	3	96	77	307	64	2	2	7	1
	4	91	74	294	61	7	5	20	4
	5	80	64	259	54	18	15	55	11
	6	58	46	193	40	40	33	121	25
	7	33	26	116	24	65	53	198	41
15 kn	**None**	**71**	**57**	**234**	**48**				
	1	71	57	234	48				
	2	71	57	234	48	0	0	0	0
	3	70	56	231	48	1	1	3	0

	4	68	54	224	46	3	3	10	2
	5	62	49	205	42	9	8	29	6
	6	49	38	164	34	22	19	70	14
	7	30	24	107	22	41	33	127	26
18 kn	**None**	**53**	**42**	**179**	**37**				
	1	53	42	179	37				
	2	53	42	179	37	0	0	0	0
	3	53	42	177	37	0	0	2	0
	4	52	41	174	36	1	1	5	1
	5	48	38	163	34	5	4	16	3
	6	40	32	138	29	13	10	41	8
	7	27	21	97	20	26	21	82	17

Table 2. Regressions of the sound of the barrier reef for audiogram frequencies from the literature. For frequencies higher than 2 kHz, all the transects were used while for frequencies lower than 2 kHz, only the best transect without swell was used. Under 1.2 kHz and above 22.5 kHz, the logarithmic decrease was followed by a plateau because of Wenz's background noise; for the calculation of the equations, the plateau part was not considered. Theoretical values at 10 km that are smaller than Wenz's background noise are highlighted with a "*".

Frequency (Hz)	Feature	Equation	adjR²	Value at 1 m	Value at 10 km	Δ night
				(dB re 1 µPa Hz^{-1})		
200	ANL	$y = -9.32\log_{10}x + 82.52$	0.92	82.52	45.25*	−3.56
	$Q_{0.50}$	$y = -8.60\log_{10}x + 80.25$	0.83	80.25	45.87*	−3.16
	$Q_{0.90}$	Non significative $p = 0.43$, adjR^2=-0.01				−1.01
300	ANL	$y = -12.81\log_{10}x + 92.34$	0.90	92.34	41.09*	−6.20
	$Q_{0.50}$	$y = -12.27\log_{10}x + 90.00$	0.92	90.00	40.93*	−5.53
	$Q_{0.90}$	Non significative $p = 0.34$, adjR^2=0.15				−3.42
400	ANL	$y = -13.69\log_{10}x + 95.26$	0.91	95.26	40.52*	−9.43
	$Q_{0.50}$	$y = -13.65\log_{10}x + 93.90$	0.93	93.90	39.30*	−9.22
	$Q_{0.90}$	$y = -12.71\log_{10}x + 99.11$	0.89	99.11	48.28*	−7.78
500	ANL	$y = -13.95\log_{10}x + 95.74$	0.92	95.74	39.95*	−8.89
	$Q_{0.50}$	$y = -13.96\log_{10}x + 94.41$	0.93	94.41	38.58*	−8.85
	$Q_{0.90}$	$y = -13.25\log_{10}x + 99.62$	0.96	99.62	46.61*	−7.96
600	ANL	$y = -15.36\log_{10}x + 98.21$	0.99	98.21	36.75*	−4.97
	$Q_{0.50}$	$y = -15.35\log_{10}x + 96.80$	0.99	96.80	35.39*	−4.98
	$Q_{0.90}$	$y = -14.46\log_{10}x + 101.12$	0.99	101.12	43.28*	−4.69
750	ANL	$y = -12.37\log_{10}x + 89.44$	0.96	89.44	39.94*	−2.11
	$Q_{0.50}$	$y = -12.39\log_{10}x + 88.11$	0.96	88.11	38.54*	−2.07
	$Q_{0.90}$	$y = -12.59\log_{10}x + 95.25$	0.97	95.25	44.90*	−2.16
800	ANL	$y = -12.37\log_{10}x + 88.98$	0.97	88.98	39.51*	−0.90
	$Q_{0.50}$	$y = -12.42\log_{10}x + 87.74$	0.97	87.74	38.07*	−0.84
	$Q_{0.90}$	$y = -12.72\log_{10}x + 95.13$	0.96	95.13	44.27*	−0.86
900	ANL	$y = -12.37\log_{10}x + 88.38$	0.97	88.38	38.88*	1.09
	$Q_{0.50}$	$y = -12.49\log_{10}x + 87.34$	0.97	87.34	37.37*	1.14
	$Q_{0.90}$	$y = -12.88\log_{10}x + 95.00$	0.96	95.00	43.46*	1.24
1000	ANL	$y = -11.92\log_{10}x + 87.14$	0.94	87.14	39.46*	2.98
	$Q_{0.50}$	$y = -11.99\log_{10}x + 85.91$	0.94	85.91	37.96*	2.98
	$Q_{0.90}$	$y = -12.39\log_{10}x + 93.38$	0.93	93.38	43.83*	2.98
1200	ANL	$y = -9.16\log_{10}x + 79.45$	0.82	79.45	42.81*	4.70
	$Q_{0.50}$	$y = -9.16\log_{10}x + 78.07$	0.81	78.07	41.43*	4.69
	$Q_{0.90}$	$y = -9.21\log_{10}x + 84.67$	0.78	84.67	47.82	4.61
1500	ANL	$y = -8.71\log_{10}x + 79.41$	0.82	79.41	44.55	6.35
	$Q_{0.50}$	$y = -8.69\log_{10}x + 77.98$	0.82	77.98	43.22*	6.40

	$Q_{0.90}$	$y = -8.32\log_{10}x + 83.40$	0.73	83.40	50.10	6.28
1600	ANL	$y = -8.71\log_{10}x + 79.41$	0.82	79.41	44.55	6.35
	$Q_{0.50}$	$y = -8.69\log_{10}x + 77.98$	0.82	77.98	43.22*	6.40
	$Q_{0.90}$	$y = -8.32\log_{10}x + 83.40$	0.73	83.40	50.10	6.28
1800	ANL	$y = -7.97\log_{10}x + 78.85$	0.78	78.85	46.96	7.26
	$Q_{0.50}$	$y = -8.02\log_{10}x + 77.62$	0.78	77.62	45.56	7.22
	$Q_{0.90}$	$y = -8.10\log_{10}x + 84.22$	0.72	84.22	51.83	6.98
2000	ANL	$y = -8.16\log_{10}x + 80.50$	0.78	80.50	47.86	7.62
	$Q_{0.50}$	$y = -8.26\log_{10}x + 79.43$	0.78	79.43	46.37	7.52
	$Q_{0.90}$	$y = -8.62\log_{10}x + 86.74$	0.74	86.74	52.28	7.19
2100	ANL	$y = -7.75\log_{10}x + 80.94$	0.71	80.94	49.95	7.78
	$Q_{0.50}$	$y = -7.78\log_{10}x + 79.69$	0.70	79.69	48.58	7.71
	$Q_{0.90}$	$y = -7.86\log_{10}x + 86.45$	0.64	86.45	55.02	7.31
2400	ANL	$y = -8.66\log_{10}x + 84.35$	0.79	84.35	49.69	7.51
	$Q_{0.50}$	$y = -8.74\log_{10}x + 83.21$	0.78	83.21	48.26	7.38
	$Q_{0.90}$	$y = -8.92\log_{10}x + 90.15$	0.74	90.15	54.47	7.00
2700	ANL	$y = -8.95\log_{10}x + 85.85$	0.80	85.85	50.04	7.29
	$Q_{0.50}$	$y = -9.05\log_{10}x + 84.78$	0.80	84.78	48.58	7.09
	$Q_{0.90}$	$y = -9.45\log_{10}x + 92.33$	0.77	92.33	54.51	6.75
3000	ANL	$y = -9.01\log_{10}x + 86.54$	0.80	86.54	50.50	7.23
	$Q_{0.50}$	$y = -9.12\log_{10}x + 85.50$	0.80	85.50	49.00	7.15
	$Q_{0.90}$	$y = -9.64\log_{10}x + 93.29$	0.78	93.29	54.71	6.81
3300	ANL	$y = -9.12\log_{10}x + 87.27$	0.81	87.27	50.77	7.17
	$Q_{0.50}$	$y = -9.25\log_{10}x + 86.27$	0.82	86.27	49.27	6.96
	$Q_{0.90}$	$y = -9.92\log_{10}x + 94.48$	0.80	94.48	54.80	6.65
4000	ANL	$y = -9.61\log_{10}x + 89.94$	0.85	89.94	51.48	6.90
	$Q_{0.50}$	$y = -9.75\log_{10}x + 88.96$	0.85	88.96	49.94	6.88
	$Q_{0.90}$	$y = -10.55\log_{10}x + 97.43$	0.84	97.43	55.22	6.55
5600	ANL	$y = -9.92\log_{10}x + 89.60$	0.84	89.60	49.92	6.19
	$Q_{0.50}$	$y = -10.07\log_{10}x + 88.63$	0.84	88.63	48.37	6.14
	$Q_{0.90}$	$y = -10.90\log_{10}x + 97.17$	0.83	97.17	53.55	5.87
8000	ANL	$y = -11.92\log_{10}x + 90.98$	0.90	90.98	43.28	5.47
	$Q_{0.50}$	$y = -12.06\log_{10}x + 89.98$	0.90	89.98	41.75	5.32
	$Q_{0.90}$	$y = -12.80\log_{10}x + 98.23$	0.88	98.23	47.01	5.30
10000	ANL	$y = -13.23\log_{10}x + 93.37$	0.92	93.37	40.46	5.51
	$Q_{0.50}$	$y = -13.35\log_{10}x + 92.34$	0.92	92.34	38.93	5.47
	$Q_{0.90}$	$y = -14.03\log_{10}x + 100.38$	0.91	100.38	44.28	5.31
11200	ANL	$y = -14.34\log_{10}x + 95.82$	0.94	95.82	38.44	5.57
	$Q_{0.50}$	$y = -14.45\log_{10}x + 94.74$	0.94	94.74	36.94	5.63
	$Q_{0.90}$	$y = -15.04\log_{10}x + 102.58$	0.92	102.58	42.44	5.37
16000	ANL	$y = -17.04\log_{10}x + 101.48$	0.96	101.48	33.30	5.82
	$Q_{0.50}$	$y = -17.11\log_{10}x + 100.34$	0.95	100.34	31.88	5.72
	$Q_{0.90}$	$y = -17.41\log_{10}x + 107.49$	0.94	107.49	37.86	5.50
20000	ANL	$y = -19.16\log_{10}x + 104.39$	0.96	104.39	27.75	5.99
	$Q_{0.50}$	$y = -19.14\log_{10}x + 103.05$	0.96	103.05	26.48	5.88
	$Q_{0.90}$	$y = -18.94\log_{10}x + 109.03$	0.95	109.03	33.28	5.77
22500	ANL	$Y = -19.65\log10x + 105.12$	0.96	105.12	26.52	5.96
	Q0.50	$Y = -19.61\log10x + 103.73$	0.96	103.73	25.29	5.99
	Q0.90	$Y = -19.20\log10x + 109.23$	0.94	109.23	32.41	5.68
32000	ANL	$y = -22.94\log10x + 113.39$	0.97	113.39	21.63	5.97
	Q0.50	$Y = -22.90\log10x + 111.97$	0.97	111.97	20.38*	6.00

	Q0.90	Y = −22.66log10x + 117.90	0.96	117.9	27.26	5.95
40000	ANL	Y = −25.13log10x+117.98	0.97	117.98	17.45*	6.11
	Q0.50	Y = −25.12log10x+116.62	0.97	116.62	16.16*	6.06
	Q0.90	Y = −25.10log10x+123.09	0.96	123.09	22.68	5.84
50000	ANL	Y = −26.93log10x + 121.48	0.97	121.48	13.76*	6.14
	Q0.50	Y = −26.94log10x + 120.22	0.96	120.22	12.47*	6.05
	Q0.90	Y = −26.83log10x + 126.73	0.94	126.73	19.40	5.92
64000	ANL	Y = −30.07log10x+123.49	0.97	123.49	3.20*	6.23
	Q0.50	Y = −30.14log10x+122.35	0.97	122.35	1.79*	6.19
	Q0.90	Y = −30.28log10x+129.24	0.97	129.24	8.14*	6.00

Table 3. Maximal distances of detection for each considered species. Exp. = experimental threshold found in the literature (or converted to be expressed in dB re 1 µPa). Cor. = threshold corrected by the CBW. Equ. = equivalent threshold, i.e. Cor. – 10 to 30 dB re 1 µPa to compare data from different methodologies when applicable. ANL = Ambient Noise Level. Max. wind = maximal condition of acceptable wind (in knots) for which the values of distances are correct. For speed greater than 64 kn, the wind was considered negligible (mentioned as "/"). When the values were smaller than 6 kn, the distance was recalculated (pointed out with a "*") for an average wind speed of 6 kn. When the distances were higher than 10 km, they were recalculated with the model to include the transmission lost (TL).

Species	Frequency (Hz)	Threshold (dB re 1 µ Pa)			Distance (m)						Max. wind (kn)
					Day			Night			
		Exp.	Cor.	Equ.	$Q_{0.90}$	$Q_{0.50}$	ANL	$Q_{0.90}$	$Q_{0.50}$	ANL	
Reef fish (post-)larvae											
Myripristis kuntee, 53-59 mm [1]	**300**	**104**	**89**	79 to 59	-	**8-336** *175	**11-401** *215	-	3-119 *62	4-131 *70	36-2
	600	119	101	81 to 61	**25-595** *580	11-215 *210	13-265 *258	12-282 *275	**5-102** *99	**7-126** *123	45-5
	900	114	94	84 to 64	7-255	2-74	2-94	9-318	2-91	3-115	62-12
	1200	126	105	95 to 75	0-11	0-2	0-3	0-36	0-7	0-10	/-41
	1500	117	95	85 to 65	1-163	0-31	0-45	4-925	1-170	1-242	/-20
	1800	132	109	99 to 79	0-4	0-1	0-1	0-32	0-5	0-8	/-62
	2100	136	123	113 to 93	0	0	0	0-1	0	0	/
	2400	148	124	114 to 94	0	0	0	0-2	0	0-1	/
	2700	123	99	89 to 69	2-294	0-55	0-76	**12-1524**	**2-337**	**3-498**	/-40
	3000	126	101	91 to 71	2-205	0-39	0-53	9-1044	**2-237**	2-337	/-49
	3300	133	108	98 to 78	0-46	0-8	0-10	2-215	0-44	0-63	/
Abudefduf vaigiensis, 28 – 37 mm [1]	300	117	102	92 to 72	-	**1-29**	**1-39**	-	**0-10**	**0-13**	/-20
	600	128	110	100 to 80	**1-29**	1-12	1-15	**1-14**	0-6	0-7	/-43
	900	127	107	97 to 77	0-6	0-1	0-2	0-8	0-2	0-2	/-40
	1200	135	114	104 to 84	0-1	0	0	0-4	0-1	0-1	/
	1500	141	119	109 to 89	0	0	0	0	0	0	/
	1800	151	128	118 to 98	0	0	0	0	0	0	/
Acanthurus triostegus, 48-58mm [1]	300	107	92	82 to 62	-	**4-191** *175	**6-234** *215	-	**2-68** *62	**2-77** *70	45-5
	600	126	108	98 to 78	**2-40**	1-17	1-21	**1-19**	0-8	0-10	/-37
	900	135	115	105 to 85	0-1	0	0	0-1	0	0	/
	1200	140	119	109 to 89	0	0	0	0-1	0	0	/

	1500	147	125	115 to 95	0	0	0	0	0	0	/
	1800	160	137	127 to 107	0	0	0	0	0	0	/
	300	105.56	91	81 to 61	-	5-231 *175	8-280 *215	-	2-82 *62	3-92 *70	42-4
	600	104	86	76 to 56	**55-1319 *580**	**23-455 *210**	**28-560 *258**	**26-625 *275**	**11-216 *99**	**13-266 *123**	32-1
Chaetodon citrinellus, 36 -48mm [1]	900	115	95	85 to 65	1-141	0-28	0-40	1-197	0-37	0-52	/-14
	1200	129.5	109	99 to 79	0-4	0-1	0-1	0-13	0-3	0-4	/-52
	1500	138	117	107 to 87	0	0	0	0-2	0	0-1	/
	1800	143	120	110 to 90	0	0	0	0-1	0	0	/
	2100	150	127	117 to 97	0	0	0	0	0	0	/
	300	113	98	88 to 68	-	1-62	2-79	-	1-22	1-26	/-13
	600	105	87	77 to 57	**47-1125 *580**	**19-392 *210**	**24-482 *258**	**22-533 *275**	**9-186 *99**	**11-229 *123**	58-2
Rhinecanthus aculeatus, 38-44mm [1]	900	115	95	85 to 65	1-141	0-28	0-40	1-197	0-37	0-52	/-14
	1200	123	102	92 to 72	0-24	0-5	0-7	1-75	0-15	0-21	/-33
	1500	132	110	100 to 80	0-3	0-1	0-1	0-15	0-3	0-5	/-61
	1800	140	117	107 to 87	0	0	0	0-3	0-1	0-1	/
	2100	151	128	118 to 98	0	0	0	0	0	0	/
	300	133	118	-	-	0	0	-	0	0	/
	500	129	112	-	0	0	0	0	0	0	/
Pomacentrus partitus 12-14mm [2]	800	138	119	-	0	0	0	0	0	0	/
	1000	138	118	-	0	0	0	0	0	0	/
	1200	136	116	-	0	0	0	0	0	0	/
	1500	141	120	-	0	0	0	0	0	0	/
	300	125	110	-	-	0	0	-	0	0	/
Pomacentrus variabilis, 13mm [2]	500	122	105	-	0	0	0	0	0	0	/
	800	133	114	-	0	0	0	0	0	0	/
	1000	139	119	-	0	0	0	0	0	0	/
Pomacentrus nagasakiensis, presettlement larvae [3]	200	124	111	101-81	-	0-1	0-1	-	0	0-1	/-44
	300	126	111	101-81	-	0-5	0-8	-	0-2	0-3	/-42
	400	137	121	111-91	0-4	0-2	0-2	0-1	0	0	/

	500	136	119	109-89	0-6	0-2	0-3	0-2	0-1	0-1	/
	600	125	107	97-77	**2-47**	**1-19**	**1-24**	**1-22**	**0-9**	**1-11**	/-34
	700	130	112	102-82	0-11	0-3	0-4	0-8	0-2	0-3	/-51
	800	141	122	112-92	0-2	0	0-1	0-2	0	0	/
	1200	140	119	109-89	0	0	0	0-1	0	0	/
	2000	145	122	112-92	0	0	0	0-2	0	0	/
Pomacentrus nagasakiensis, postsettlement larvae [3]	200	117	104	94-74	-	0-5	0-8	-	0-2	0-3	/-28
	300	125	110	100-80	-	0-7	0-9	-	0-2	0-3	/-39
	400	136	120	110-90	0-5	0-2	0-2	0-1	0	0	/
	500	135	118	108-88	0-8	0-3	0-4	0-2	0-1	0-1	/
	600	117	99	89-69	**7-166**	**3-65**	**4-80**	**3-79**	**2-31**	**2-38**	/-17
	700	130	111	101-81	0-14	0-4	0-5	0-9	0-3	0-3	/-48
	800	132	113	103-83	0-9	0-2	0-3	0-8	0-2	0-3	/-56
	1200	144	124	114-94	0	0	0	0	0	0	/
	2000	142	119	109-89	1	0	0	0-4	0-1	0-1	/
Abudefduf saxatilis, < 30 mm [4]	200	117	104	94-74	-	0-5	0-8	-	0-2	0-3	/-26
	400	119	103	93-73	**3-113**	**1-34**	**1-42**	**1-28**	**0-7**	**0-9**	/-22
	800	140	121	111-91	0-2	0-1	0-1	0-2	0	0-1	/
	1000	142	122	112-92	0-1	0	0	0-2	0-1	0-1	/
	1200	148	127	117-97	0	0	0	0	0	0	/
Plectropomus leopardus, 17-22 mm [5]	200	125	112	102-82	-	0-1	0-1	-	0	0	/-47
	300	130	115	105-85	-	0-3	0-4	-	0-1	0-1	/-54
	400	137	121	111-91	0-4	0-2	0-2	0-1	0	0	/
	500	134	117	107-87	**0-9**	0-3	0-4	0-2	0-1	0-1	/-63
	600	136	118	108-88	0-8	**0-4**	**0-5**	0-4	0-2	0-2	/
	700	132	113	103-83	**0-9**	0-3	0-3	0-6	0-2	0-2	/-54
	800	136	117	107-87	0-4	0-1	0-1	0-4	0-1	0-1	/
	1200	128	107	97-77	0-7	0-1	0-2	**0-22**	**0-4**	**0-6**	/-46
	2000	149	126	116-96	0	0	0	0-1	0	0	/
Pomacentrus amboinensis[6]	200	125	112	102-82	-	0-1	0-1	-	0	0	/-47
	300	126	111	101-81	-	0-5	0-8	-	0-2	0-3	/-42
	400	136	120	110-90	0-5	0-2	0-2	0-1	0	0	/
	500	133	116	106-86	**0-11**	0-4	0-5	0-3	0-1	0-1	/-59

	600	134	116	106-86	**0-11**	**0-5**	**0-6**	0-5	**0-2**	**0-3**	/-61
	700	131	112	102-82	**0-11**	0-3	0-4	**0-8**	**0-2**	**0-3**	/-51
	800	139	120	110-90	0-3	0-1	0-1	0-2	0-1	0-1	/
	1200	138	117	107-87	0-1	0	0	0-2	0	0	/
	2000	144	121	111-91	0	0	0	0-2	0	0	/
Lutjanus carponotatus [6]	200	123	110	100-80	-	0-1	0-2	-	0	0-1	/-41
	300	134	119	109-89	-	0-1	0-2	-	0	0-1	/
	400	142	126	116-96	0-2	0-1	0-1	0	0	0	/
	500	139	122	112-92	0-4	0-1	0-2	0-1	0	0	/
	600	135	117	107-87	**0-9**	**0-4**	**0-5**	**0-4**	**0-2**	**0-3**	/
	700	137	119	109-89	0-3	0-1	0-1	0-2	0-1	0-1	/
	800	137	118	108-88	0-4	0-1	0-1	0-3	0-1	0-1	/
	1200	138	117	107-87	0-1	0	0	0-2	0	0	/
	2000	149	126	116-96	0	0	0	0-1	0	0	/
Epinephelus coioides, 9-13 mm[7]	200	135	122	112-92	-	0	0	-	0	0	/
	300	145	130	120-100	-	0	0	-	0	0	/
	400	149	133	123-103	0	0	0	0	0	0	/
	500	147	130	120-100	**0-1**	0	0	0	0	0	/
	600	149	131	121-101	**0-1**	**0-1**	**0-1**	0	0	0	/
Epinephelus fuscoguttatus, 14-18 mm[7]	200	129	116	106-86	-	0	0	-	0	0	/-59
	300	139	124	114-94	-	0	0-1	-	0	0	/
	400	144	128	118-98	0-1	**0-1**	0-1	0	0	0	/
	500	141	124	114-94	**0-3**	**0-1**	0-1	0-1	0	0	/
	600	143	125	115-95	**0-3**	**0-1**	**0-2**	0-1	**0-1**	**0-1**	/
	700	138	120	110-90	**0-3**	**0-1**	0-1	**0-2**	0	**0-1**	/
	2000	147	124	114-94	0	0	0	0-1	0	0	/
Epinephelus malabaricus[7]	200	122	109	99-79	-	0-1	0-2	-	0-1	0-1	/-38
	300	131	116	106-86	-	0-2	0-3	-	0-1	0-1	/-57
	400	136	120	110-90	0-5	0-2	0-2	0-1	0	0	/
	500	134	117	107-87	**0-9**	**0-3**	**0-4**	0-2	**0-1**	0-1	/-63
	600	139	121	111-91	0-5	0-2	0-3	0-2	**0-1**	0-1	/
	700	133	115	105-85	0-7	0-2	0-2	**0-4**	**0-1**	**0-2**	/-60
	800	141	122	112-92	0-2	0	0-1	0-2	0	0	/

Lutjanus sebae[7]	200	124	111	101-81	-	0-1	0-1	-	0	**0-1**	/-44
	300	140	125	115-95	-	0	0	-	0	0	/
	400	142	126	116-96	0-2	0-1	0-1	0	0	0	/
	500	140	123	113-93	0-3	0-1	**0-2**	0-1	0	0	/
	600	141	123	113-93	**0-4**	**0-2**	**0-2**	**0-2**	**0-1**	**0-1**	/
	700	140	122	112-92	0-2	0	0-1	0-1	0	0	/
	800	143	124	114-94	0-1	0	0	0-1	0	0	/
	2000	147	124	114-94	0	0	0	0-1	0	0	/
Adult fishes (particle motion)											
Pleuronectes platessa [8]	200	112	99	-	-	0	0	-	0	0	/
Limanda limanda [8]	200	106	93	-	-	0	0	-	0	0	/
Sciaena umbra [9]	200	114	101	91-71	-	0-12	0-17	-	0-5	0-13	/-19
	300	106	91	81-61	-	5-231 *175	8-280 *215	-	2-82 ***62**	3-92 ***70**	42-4
	500	106	89	79-59	**36-1163 *715**	**13-344 *217**	**16-430 *271**	**9-292 *179**	**3-80** *50	**4-99** *62	38-3
	1000	124	104	94-74	0-10	0-2	0-4	0-24	0-5	0-8	/-34
Chromis chromis [9]	200	127	114	104-84	-	0	0-1	-	0	0	/-53
	300	130	115	105-85	-	0-3	0-4	-	0-1	0-1	/-54
	500	130	113	103-83	1-18	0-7	0-8	0-5	0-2	0-2	/-50
	600	128	111	101-81	**1-25**	**1-11**	**1-13**	**0-12**	**0-5**	**0-6**	/-45
Gobius cruentatus [9]	200	132	119	109-89	-	0	0	-	0	0	/
	300	131	116	106-86	-	0-2	0-3	-	**0-1**	**0-1**	/-57
	500	134	117	107-87	**0-9**	**0-3**	**0-4**	**0-2**	**0-1**	**0-1**	/-63
	700	138	120	110-90	0-3	0-1	0-1	**0-2**	0	**0-1**	/
Forsterygion lapillum [10]	200	133	120	110-90	-	0	0	-	0	0	/
	400	151	135	125-105	0	0	0	0	0	0	/
	600	156	125	115-95	**0-3**	**0-1**	**0-2**	**0-1**	**0-1**	**0-1**	/
	800	158	139	129-109	0	0	0	0	0	0	/
Pempheris adspersa [10]	200	124	111	101-81	-	**0-1**	**0-1**	-	0	**0-1**	/
	400	142	125	115-95	**0-2**	**0-1**	**0-1**	**0-1**	0	0	/
	600	145	127	117-97	**0-2**	**0-1**	**0-1**	**0-1**	0	**0-1**	/

	800	152	133	123-103	0	0	0	0	0	0	/
Hearing specialist adult reef fish (pressure)											
	200	99	86	76-56	-	3-660 *140	5-701 *167	-	1-283 ***60**	2-291 ***69**	30-1
Pempheris adspersa [10]	400	97	81	71-51	**163-6098 *787**	**49-1389 *207**	**59-1710** *256	**40-1490** *192	**10-293** *44	**12-350** *52	18-0
	600	103	85	75-55	64-1547 *580	26-529 *210	32-650 ***258**	30-733 ***275**	**12-250 *99**	**15-309 *123**	29-1
	800	117	98	88-68	4-136	1-39	1-50	3-116	1-33	1-42	/-18
Cetaceans											
	500	121	104.01	-	> 1	> 1	> 1	> 1	> 1	> 1	/
	1000	113	93	-	> 1	> 1	> 1	> 1	> 1	> 1	/
	2000	102	78.99	-	8	1	2	54	9	13	/
Stenella coeruleoalba [11]	4000	93	66.98	-	770	180	245	3214	912	1280	43
	8000	73	43.97	-	**15740**	6533	8786	**25740**	**15860**	**19020**	7
	16000	66	33.96	-	12810 *<10000	7579 *4545	9172 *5488	16770 *12140	12620 *9813	13720 *<10000	3
	32000	48	12.95	-	11243 *5790	**9004** *2913	**10046** *3312	12508 *10127	11056 *5325	11315 *6031	0
	40000	44	7.98	-	10410 *4670	7173 *2563	8096 *2895	11232 *7980	10345 *4467	10534 *5067	0
	64000	42	3.94	-	5370 *2287	3302 *1401	3671 *1554	8475 *3610	5298 *2247	5916 *2504	0
	5600	79.2	51.72	?	**14940**	4627	6585	**30770**	**17530**	**21840**	14
Mesoplodon densirostris [12]	11200	70.2	39.71	?	13380 *12540	6431 ***5771**	**8181 *7335**	20020 *19180	13540 *12700	15320 *14480	5
	22500	71.3	37.78	?	5264	2307	2673	10125	4662	5374	9
	40000	49.7	13.68	?	10410 *4670	**7173** *2563	8096 *2895	11232 *7980	10345 *4467	10534 *5067	0
	50000	48.9	11.91	?	10120 *4264	6166 *2362	6889 *2638	10672 *7086	10038 *3962	10166 *4460	0
	64000	71.7	33.64	?	1436	878	973	2266	1408	1568	14

Globicephala macrorhynchus [13]	10000	83-96	53-66	?	282-2383	94-885	117-1126	674-5695	241-2273	306-2937	25
	20000	72-84	39-51	?	**1158-4983**	**524-2220**	**612-2587**	**2336-10000**	**1063-4504**	**1257-5315**	9
	40000	69-81	33-45	?	1292-3884	710-2132	802-2408	2207-6636	1237-3716	1404-4214	8
Invertebrates												
Ovalipes catharus [14]	200	150-152	137-139	107-129	-	0	0	-	0	0	/
	400	142-148	126-132	96-122	0-2	0-1	0-1	0	0	0	/
	800	133-138	114-119	84-109	0-1	0	0	0-1	0	0	60-/
	1000	138-141	118-121	88-111	0-3	0-1	0-1	0-5	0-1	0-2	/
	2000	129-153	106-130	76-120	**0-18**	**0-3**	**0-4**	**0-120**	**0-21**	**0-31**	/
Panopeus spp [15]	200	137	124	114-94	-	0	0	-	0	0	/
	400	145	129	119-99	**0-1**	**0**	**0-1**	0	0	0	/
	800	143	124	114-94	0	0	0	0	0	0	/
	1600	139	117	107-87	0	0	0	**0-2**	**0**	**0-1**	/
Orconectes limosus [16]	400	174	158	148-128	0	0	0	0	0	0	/
	600	169	151	141-121	0	0	0	0	0	0	/
	800	182	163	143-123	0	0	0	0	0	0	/
	1200	177	156	146-126	0	0	0	0	0	0	/
	1500	193	171	161-141	0	0	0	0	0	0	/
	1800	183	160	150-130	0	0	0	0	0	0	/
	2000	190	167	157-137	0	0	0	0	0	0	/
Palaemon serratus [17]	300	108	93	83-63	-	**4-159**	**5-195**	-	1-56	2-64	48-6
	500	113	96	86-66	**11-345**	4-108	5-135	3-86	1-25	1-31	11
	750	118	99	89-69	3-122	1-35	1-45	2-82	1-24	1-30	/-19
	1000	119	99	89-69	2-93	1-26	1-33	4-162	1-46	1-59	/-23
	1500	121	99	89-69	0-54	0-10	0-16	1-306	0-53	0-84	/-29
	2000	126	103	93-73	0-39	0-6	0-8	1-268	0-49	0-71	/-46
	3000	130	105	95-75	1-79	0-14	0-19	**3-402**	**1-86**	**1-121**	/-62
Octopus vulgaris [18]	400	133	117	107-87	0-9	0-3	0-4	0-2	0-1	0-1	/-61
	500	131	114	104-84	0-15	0-6	0-7	0-3	0-1	0-1	/-53
	600	129	111	101-81	**1-25**	**1-11**	**1-13**	**0-12**	**0-5**	**0-6**	/-45
	700	138	119	109-89	0-3	0-1	0-1	0-2	0-1	0-1	/
	800	137	118	108-88	0	0	0	0	0	0	/

	1000	149	129	119-99	0	0	0	0-1	0	0	/
Sepioteuthis lessoniana [18]	400	133	117	107-87	0-9	0-3	0-4	0-2	0-1	0-1	/-61
	500	132	115	105-85	0-13	0-5	0-6	0-3	0-1	0-1	/-56
	600	125	107	97-77	**2-47**	**1-19**	**1-24**	**1-22**	**0-9**	**1-11**	/-34
	700	129	110	100-80	0-16	0-5	0-6	0-11	0-3	0-4	/-45
	800	131	112	102-82	0-2	0	0-1	0-2	0	0-1	/-53
	1000	137	117	107-87	0-3	0-1	0-1	0-6	0-1	0-2	/
	1200	134	113	103-83	0-2	0	0	0-5	0-1	0-1	/
	1500	142	120	110-90	0	0	0	0-1	0	0	/
Loligo pealeii [19]	200	109	96	86-66	-	**0-45**	**0-59**	-	**0-19**	**0-25**	59-11
	300	118	103	93-73	-	**1-24**	**1-32**	-	0-9	0-11	/-21
	400	132	116	106-86	0-11	0-4	0-5	0-3	0-1	0-1	/-58
Sepia officinalis [20]	200	194	181	171-151	-	0	0	-	0	0	/

References

1. Colleye, O., Kéver, L., Lecchini, D., Berten, L. & Parmentier, E. Auditory evoked potential audiograms in post-settlement stage individuals of coral reef fishes. *J. Exp. Mar. Bio. Ecol.* **483**, 1–9 (2016).
2. Kenyon, T. N. Ontogenetic changes in the auditory sensitivity of damselfishes (Pomacentridae). *J. Comp. Physiol. - A Sensory, Neural, Behav. Physiol.* **179**, 553–561 (1996).
3. Wright, K. J., Higgs, D. M., Belanger, A. J. & Leis, J. M. Auditory and olfactory abilities of pre-settlement larvae and post-settlement juveniles of a coral reef damselfish (Pisces: Pomacentridae). *Mar. Biol.* **147**, 1425–1434 (2005).
4. Egner, S. A. & Mann, D. A. Auditory sensitivity of sergeant major damselfish *Abudefduf saxatilis* from post-settlement juvenile to adult. *Marine Ecology Progress Series* **285**, (2005).
5. Wright, K. J., Higgs, D. M., Belanger, A. J. & Leis, J. M. Auditory and olfactory abilities of larvae of the Indo-Pacific coral trout *Plectropomus leopardus* (Lacepède) at settlement. *J. Fish Biol.* **72**, 2543–2556 (2008).
6. Wright, K. J., Higgs, D. M., Cato, D. H. & Leis, J. M. Auditory sensitivity in settlement-stage larvae of coral reef fishes. *Coral Reefs* **29**, 235–243 (2010).
7. Wright, K. J., Higgs, D. M. & Leis, J. M. Ontogenetic and interspecific variation in hearing ability in marine fish larvae. *Mar. Ecol. Prog. Ser.* **424**, 1–13 (2011).
8. Chapman, C. J. & Sand, O. Field studies of hearing in two species of flatfish *Pleuronectes platessa* (L.) and *Limanda limanda* (L.) (family Pleuronectidae). *Comp. Biochem. Physiol. Part A Physiol.* **47**, 371–385 (1974).
9. Wysocki, L. E., Codarin, A., Ladich, F. & Picciulin, M. Sound pressure and particle acceleration audiograms in three marine fish species from the Adriatic Sea. *J. Acoust. Soc. Am.* **126**, 2100 (2009).
10. Radford, C. A., Montgomery, J. C., Caiger, P. & Higgs, D. M. Pressure and particle motion detection thresholds in fish: A re-examination of salient auditory cues in teleosts. *J. Exp. Biol.* **215**, 3429–3435 (2012).
11. Kastelein, R. A., Hagedoorn, M., Au, W. W. L. & de Haan, D. Audiogram of a striped dolphin (*Stenella coeruleoalba*). *J. Acoust. Soc. Am.* **113**, 1130–1137 (2003).
12. Pacini, A. F. *et al.* Audiogram of a stranded Blainville's beaked whale (*Mesoplodon densirostris*) measured using auditory evoked potentials. *J. Exp. Biol.* **214**, 2409–2415 (2011).
13. Greenhow, D. R., Brodsky, M. C., Lingenfelser, R. G. & Mann, D. A. Hearing threshold measurements of five stranded short-finned pilot whales (*Globicephala macrorhynchus*). *J. Acoust. Soc. Am.* **135**, 531–536 (2014).
14. Radford, C. A., Tay, K. & Goeritz, M. L. Hearing in the paddle crab, Ovalipes catharus. **010013**, 010013 (2016).
15. Randall Hughes, A., Mann, D. A. & Kimbro, D. L. Predatory fish sounds can alter crab foraging behaviour and influence bivalve abundance. *Proc. R. Soc. B Biol. Sci.* **281**, (2014).
16. Breithaupt, T. & Tautz, J. Vibration sensitivity of the crayfish statocyst. *Naturwissenschaften* **75**, 310–312 (1988).
17. Lovell, J. M., Findlay, M. M., Moate, R. M. & Yan, H. Y. The hearing abilities of the prawn Palaemon serratus. *Comp. Biochem. Physiol. A* **140**, 89–100 (2005).

18. Hu, M. Y., Yan, H. Y., Chung, W. S., Shiao, J. C. & Hwang, P. P. Acoustically evoked potentials in two cephalopods inferred using the auditory brainstem response (ABR) approach. *Comp. Biochem. Physiol. - A Mol. Integr. Physiol.* **153**, 278–283 (2009).
19. Mooney, T. A. & Al., E. Sound detection b the longfin squid (*Loligo pealeii*) studied with auditory evoked potentials: sensitivity to low-frequency particle motion and not pressure. *J. Exp. Biol.* **213**, 3748–3759 (2010).
20. Budelmann, B. U. & Bleckmann, H. A lateral line analogue in cephalopods: water waves generate microphonic potentials in the epidermal head lines of *Sepia* and *Lolliguncula*. *J. Comp. Physiol. A* **164**, 1–5 (1988).