

Supplementary Material

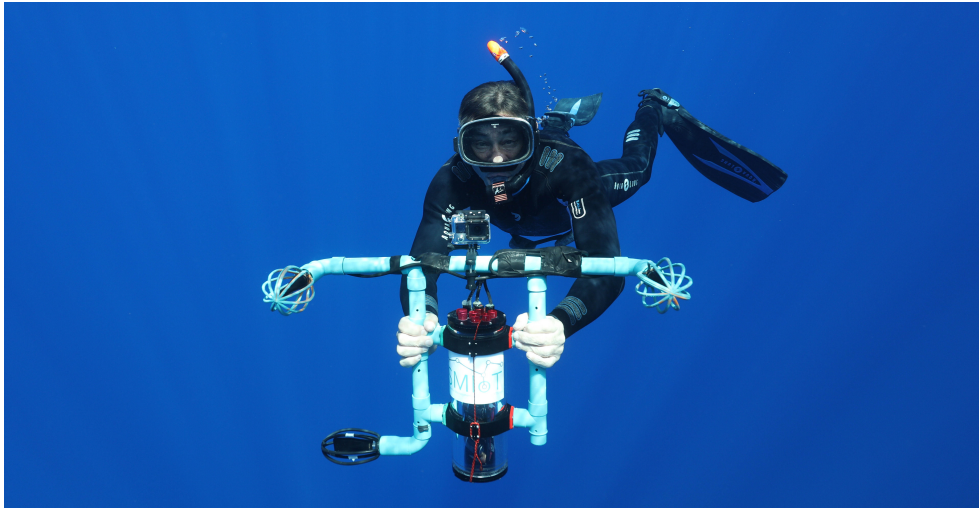


Figure S1. F. Sarano holding the 2018 JASON compact array built by H. Glotin with 3 hydrophones and a GoPro at the top center for joint audiovisual recordings (Image: F. Guerin).

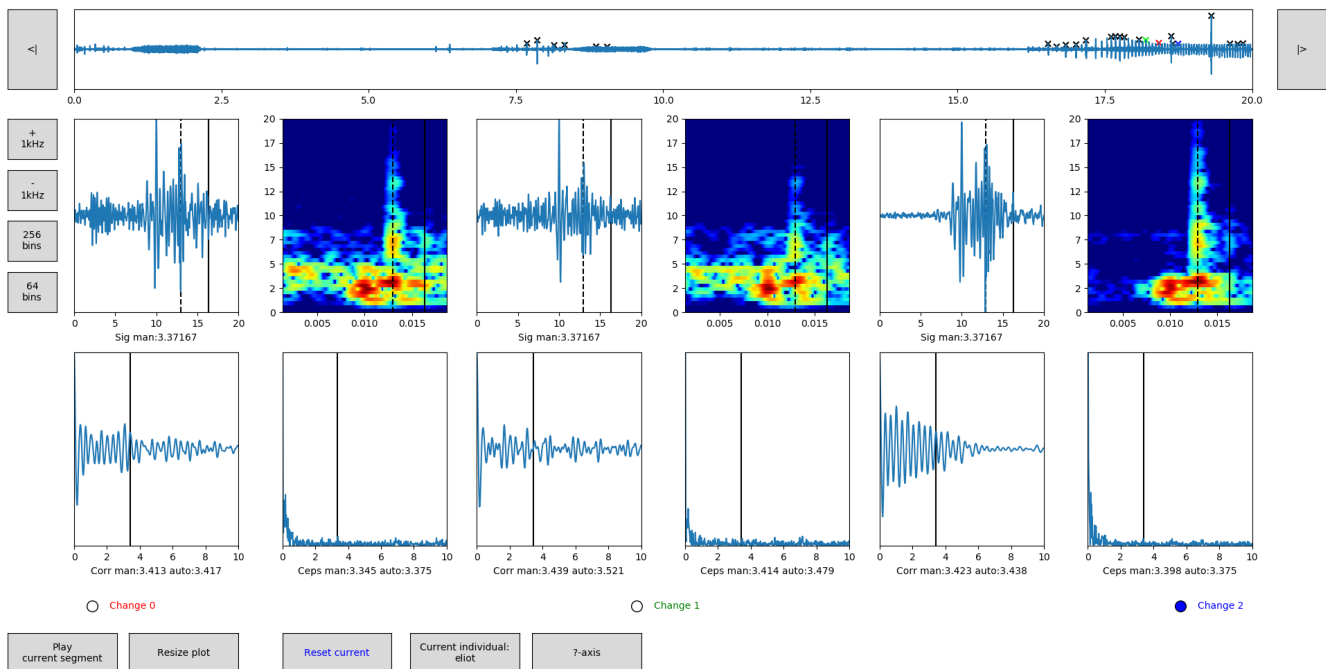


Figure S2. Example of the annotation interface on a video of Eliot at 8 years old from the video "IPI_of_ELIOT-8ans-20190318-NaN-R093C010_1903133ZS02-SONY_F55.MXF". We see for each of the 3 clicks (red blue and green selected clicks in the same click train), the waveform, the spectrogram, the cepstrum, and autocorrelation. The black line is the pulse/IPI annotation. "Sig man" is the estimated IPI for each click (here 3.37 ms for each click). In this case, the dotted line is on P1 and for the waveforms/spectrogram the full line is on P2. "man" is the manually place line, and auto is the nearest maximum.

	Juvenile	Sex	Subgroup	Estimated birth date	File	IPI	%Jason	2013	2015	2016	2017	2018	2019	2020	2022
Adélie	False	F	Vanessa	1995-06-15	4	51	0.0	0	0	0	2	49	0	0	0
Alexander	True	M	Vanessa	2019-01-01	6	55	45.5	0	0	0	0	0	25	30	0
Ali	True	M	Irène	2018-02-15	5	36	19.4	0	0	0	0	0	20	16	0
Arthur	True	M	Irène	2013-04-03	1	9	0.0	0	0	9	0	0	0	0	0
Baptiste	True	M	Irène	2017-03-07	1	8	100.0	0	0	0	8	0	0	0	0
Caroline	False	F	Vanessa	2000-06-15	6	61	0.0	0	0	0	20	14	7	0	20
Chesna	True	F	Vanessa	2018-02-15	5	51	0.0	0	0	0	0	0	37	0	14
Claire	False	F	Irène	1980-06-15	1	5	0.0	0	0	5	0	0	0	0	0
Daren	True	M	Irène	2018-04-17	8	91	0.0	0	0	0	0	0	20	71	0
Delphine	False	F	Vanessa	1985-06-15	6	42	0.0	0	0	5	14	23	0	0	0
Dos calleux	False	F	Irène	1987-06-15	4	50	0.0	0	0	0	7	43	0	0	0
Éliot	True	M	Vanessa	2011-03-14	19	168	1.8	0	19	70	47	12	10	0	10
Émy	False	F	Vanessa	1985-06-15	3	72	0.0	0	0	0	0	72	0	0	0
Germine	False	F	Irène	2006-06-15	4	63	0.0	0	9	0	0	29	0	0	25
Irène Gueule Tordue	False	F	Irène	2000-01-01	6	65	0.0	0	0	15	26	24	0	0	0
Issa	False	F	Irène	1990-06-15	1	11	0.0	0	11	0	0	0	0	0	0
Lana	True	F	Irène	2019-02-20	2	15	100.0	0	0	0	0	0	15	0	0
Lucy	False	F	Irène	2000-06-15	2	27	0.0	0	0	0	6	21	0	0	0
Mina	False	F	Irène	2005-06-15	4	44	0.0	0	19	0	0	25	0	0	0
Miss Tautou	True	F	Irène	2016-02-15	1	15	0.0	0	0	0	0	0	15	0	0
Mystère	False	F	Irène	1995-06-15	1	20	0.0	0	0	20	0	0	0	0	0
Roméo	True	M	Irène	2013-03-03	14	108	0.0	0	17	7	18	49	12	5	0
Tache Blanche	True	M	Vanessa	2011-06-15	15	162	3.7	15	0	56	54	14	23	0	0
Vanessa	False	F	Vanessa	1980-06-15	8	61	0.0	0	0	8	36	17	0	0	0
Yukimi	False	F	Irène	1985-06-15	1	15	0.0	0	0	0	0	15	0	0	0
Zoé	True	F	Vanessa	2013-12-15	9	121	0.0	0	18	14	7	39	23	11	9
Total					137	1426	4.5	15	93	209	245	446	207	133	78

Table S1. Metadata of each individual. %Jason correspond to the percent of IPI annotated using the hydrophone array. The columns on the right correspond to the number of annotated IPI for that year.