

Corrigendum for the Original Article: P. Palo, D. Aalto, O. Aaltonen, R.-P. Happonen, J. Malinen, J. Saunavaara, M. Vainio, Articulating Finnish Vowels: Results from MRI and Sound Data (LU XLVIII 2012, 194–199)

Corrigendum for Section 3. Results (October 28, 2012) (see corrected version also at: http://www.kirj.ee/public/Linguistica_Uralica/2012/issue_3/ling-2012-3-194-199.pdf)

The formant data for [e] and [i] was manually adjusted to correct the following artefacts. For [e]: the LPC found a peak at 272 in the begin sample but this was removed as an outlier. For [i]: First, the LPC found peaks at 987 Hz (begin) and 722 Hz (end) but these were removed as outliers. Second, F2 could not be extracted from the beginning sample by the LPC. The value in Table 2 was obtained by visual inspection of the compensated spectrum. Third, the LPC found very strong double peaks about 500 Hz apart corresponding to the actual F3. Accordingly, the F3-values given in Table 2 are defined as their means. Adjusted values are marked in bold face as well as values which have shifted to a lower formant position (e.g. F2 to F1) as the result of removing an outlier.

Table 2: Original version
 f_0 s and formants F1–F4 for vowel samples with target $f_0 = 110$ Hz

Vowel		[ɑ]	[e]	[i]	[o]	[u]	[y]	[æ]	[ø]
f_0 (Hz)	begin	107.6	108.1	108.4	107.3	107.3	108.4	105.3	106.8
	end	110.8	109.2	109.4	110.2	111.4	110.5	107.6	109.7
F1 (Hz)	begin	658	272	255	403	269	294	748	419
	end	644	524	238	392	342	303	764	452
F2 (Hz)	begin	1059	560	987	753	636	1577	1532	1488
	end	989	1993	722	717	714	1539	1245	1360
F3 (Hz)	begin	2763	1898	3039	2298	2186	2057	2278	2008
	end	2530	2436	2183	2181	2160	2012	2373	2088
F4 (Hz)	begin	3643	2625	3473	3487	3381	3281	3511	3321
	end	3715	3504	3078	3252	3103	3148	3531	3523

Table 2: Corrected version
 f_0 s and formants F1–F4 for vowel samples with target $f_0 = 110$ Hz

Vowel		[ɑ]	[e]	[i]	[o]	[u]	[y]	[æ]	[ø]
f_0 (Hz)	begin	107.6	108.1	108.4	107.3	107.3	108.4	105.3	106.8
	end	110.8	109.2	109.4	110.2	111.4	110.5	107.6	109.7
F1 (Hz)	begin	658	560	255	403	269	294	748	419
	end	644	524	238	392	342	303	764	452
F2 (Hz)	begin	1059	1898	2220	753	636	1577	1532	1488
	end	989	1993	2183	717	714	1539	1245	1360
F3 (Hz)	begin	2763	2625	3258	2298	2186	2057	2278	2008
	end	2530	2436	3350	2181	2160	2012	2373	2088
F4 (Hz)	begin	3643	3402	4156	3487	3381	3281	3511	3321
	end	3715	3504	4658	3252	3103	3148	3531	3523

The specialised formant extraction algorithms used for the noisy data in the current context are likely to undergo several improvements in the future. Thus, we provide updated results from our work as they become available at http://math.aalto.fi/en/research/sysnum/formant_extraction.html. The page includes short descriptions of the algorithms used and tables listing the corresponding extraction results.

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