Vowel ChArt Bibliography

Amharic: Iwatsuki, S. 2012. An Acoustic Analysis of Amharic Vowels. *Comprehensive Study on the Static and Dynamic Aspects of the Language Change in Ethiopia*. Nagoya University, unpublished.

Arabic, Jordan: Al-Anani, M. 1999. Arabic Vowel Formant Frequencies. In ICPhS-14, 2117-2119.

Bahasa I., Jakarta: Hanna, I. 1974. A Spectrographic Analysis of Bahasa Indonesia Vowel Phonemes Under Primary Stress in CVC Words. Dissertation, Portland State University.

Baluchi, Sistani: Okati, F. 2012. The Vowel Systems of Five Iranian Balochi Dialects. Dissertation, Uppsala University.

Cantonese, HK: Zee, E. 2003. Frequency Analysis of the Vowels in Cantonese from 50 Male and 50 Female Speakers. In ICPhS-15, 1117-1120.

English, US: Hillenbrand, J. & Getty, L. & Clark, M. & Wheeler, K. 1994. Acoustic characteristics of American English vowels. In J. Acoust. Soc. Am. 97(5), 3099-3111. Note: Men's data only

French: Gendrot, C. & Adda-Decker, M. 2005. Impact of duration on F1/F2 formant values of oral vowels: an automatic analysis of large broadcast news corpora in French and German. In Interspeech, 2453-2456.

Note: omission of nasal vowels

German: Paetzold, M. & Simpson, A. 1997. Acoustic analysis of German vowels in the Kiel Corpus of Read Speech. Arbeitsberichte des Instituts Fur Phonetik und Digitale Sprachverarbeitung 32, 215-247.

Greek, Athens: Fourakis, M. & Botinis, A. & Katsaiti, M. 1999. Acoustic Characteristics of Greek Vowels. In Phonetica 56, 28-43.

Note: five phonemic vowels, measured in stressed and unstressed positions.

Italian: Villafaña, C. 2004. New vowels in an existing space: evidence from Italian production of English /æ/. In Acquisizione e mutamento di categorie linguistiche. Atti del Convegno della Societa Italiana di Glottologia (2003).

Japanese: Kagomiya, T. 2015. Articulatory positions of Japanese vowels as a function of duration computed from a large-scale spontaneous speech corpus. In ICPhS-18

Kabardian: Gordon, M. & Applebaum, A. 2006. Phonetic structures of Turkish Kabardian. In Journal of the International Phonetic Association 36(2), 159-186.

Kagayanen: Olson, K. & Mielke, J. 2007. Acoustic properties of the Kagayanen vowel space. In ICPhS-16, 845-848.

Kazakh: Abuov, Z. 1994. The phonetics of Kazakh and the theory of synharmonism. In UCLA Working Papers in Phonetics 88, 39-54.

Luo: Swenson, J. 2015. ATR Quality in the Luo Vowel System. In CanIL EWP Vol. 1, 101-145. Note: ATR distinctions can be allophonically distributed, but all except [ʌ] are phonemic in their own right.

Maasai: Quinn-Wriedt, L. 2013. Vowel Harmony in Maasai. Dissertation, University of Iowa.

Mixtec: DiCanio, C. & Nam, H. & Amith, J. & Whalen, D. 2015. Vowel variability in elicited versus spontaneous speech: Evidence from Mixtec. In Journal of Phonetics 48, 45-59. Elsevier.

Muskogee Creek: Johnson, K. & Martian, J. 2001. Acoustic vowel reduction in Creek: Effects of distinctive length and position in the word. In Phonetica 58, 81-102.

Nahuatl, Morelos: Velazquez Patino, E. 2014. Intonation patterns of Morelos Nahuatl. In Campbell, N. & Gibbon, D. & Hirst, D. (eds.), Proceedings of the 7th International Conference on Speech Prosody, 487-491. Dublin: Science Foundation Ireland.

Nambo: Kashima, E. & Williams, D. & Ellison, T. & Schokkin, D. & Escudero, P. 2016. Uncovering the acoustic vowel space of a previously undescribed language: The vowels of Nambo. In J. Acoust. Soc. Am. 139(6).

Portuguese: Escudero, P. & Boersma, P. & Rauber, A. & Bion, R. 2009. A cross-dialect acoustic description of vowels: Brazilian and European Portuguese. In J. Acoust. Soc. Am. 126(3), 1379-1393.

Qiang, Hongyang: Evans, J. 2006. Vowel Quality in Hongyang Qiang. In Languages and Linguistics 7(4), 731-754.

Russian: Purcell, E. 1979. Formant frequency patterns in Russian VCV utterances. In J. Acoust. Soc. Am. 66(6), 1691-1702.

Spanish: Bradlow, A. 1995. A comparative acoustic study of English and Spanish vowels. J. Acoust. Soc. AM. 97(3), 1916-1924.

3 Andre Schwab

Tanana Athabascan, Upper: Tuttle, S. & Lovick, O. & Nunez-Ortiz, I. 2011. Vowels of Upper Tanana Athabascan. In Journal of the International Phonetic Association 41(3), 283-312.

Thai, Bangkok: Narang, V. & Misra, D. 2010. Acoustic Space, Duration, and Formant Patterns in vowels of Bangkok Thai. In International Journal on Asian Language Processing 20(3), 123-140.

Vietnamese, Hanoi: Emerich, G. 2012. The Vietnamese Vowel System. Dissertation, University of Pennsylvania.

Welsh, North: Ball, M. 1984. Phonetics for phonology. In Ball, M. & Jones, G. (eds.), Welsh Phonology: Selected Readings. Cardiff: University of Wales Press, 5-39.