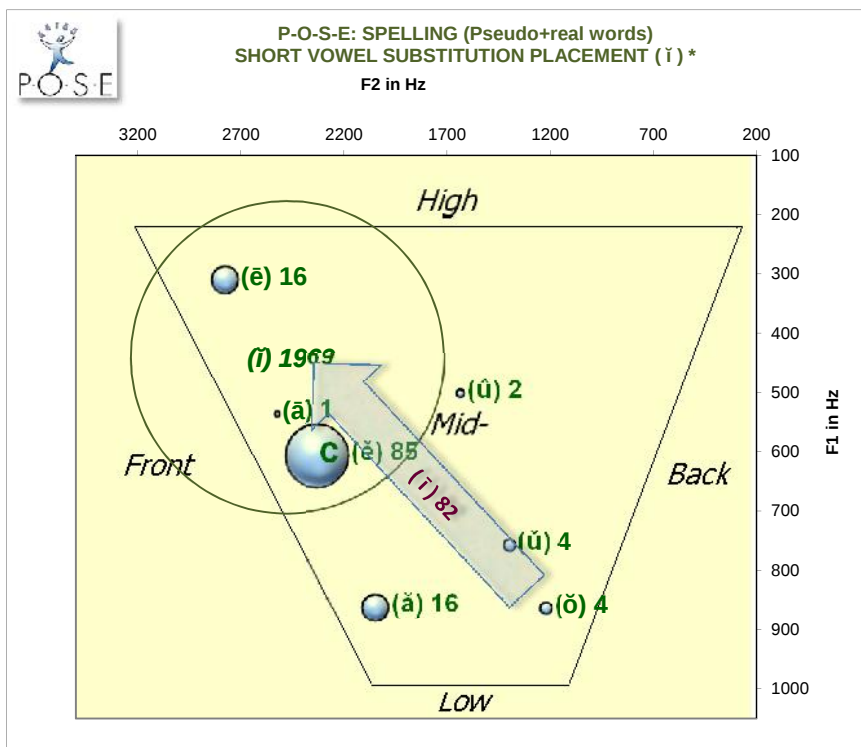


P-O-S-E © SHORT VOWEL SUBSTITUTION PHONOLOGICAL ARRAY (ĭ) "bit"

School(s):	OB-PAS-STRAT	Grade:	3	Year(s):	2006, 2007	Student N:	275
	N (ĭ) items	N correct	% Correct		N Errors	% Errors	
SPELLING:	2200	1969	89.5%		231	10.5%	
READING:	2200	2128	96.7%		72	3.3%	

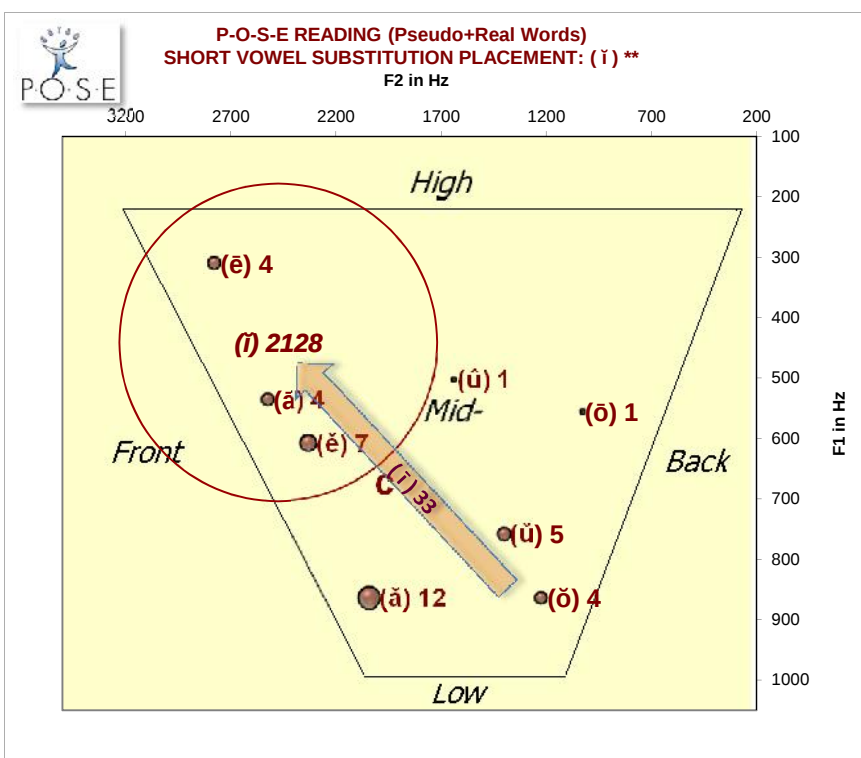


Vowel F1/F2 values based on female voices: Peterson & Barney, 1952 (n=28); Watrous, 1991: [e/et, o/oU] Hillenbrand, et al., 1995 (n=48). Hz/Bark conversion: Traunmuller, 1991

Mean Spelling Response Distance to Target (ĭ)	1.53	Bark
Dispersion (SD) re Centroid of Responses	1.64	Bark
Centroi	F1	F2
kHz	604	2253
Bark	5.79	13.81

*EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ī***	82
oi	0
ou	0
***Graphic extrapolation	
EXCEPTION	14
VOWEL/ITEM ABSENT	7

Target	
Spelling	
Reading	
Centroid	

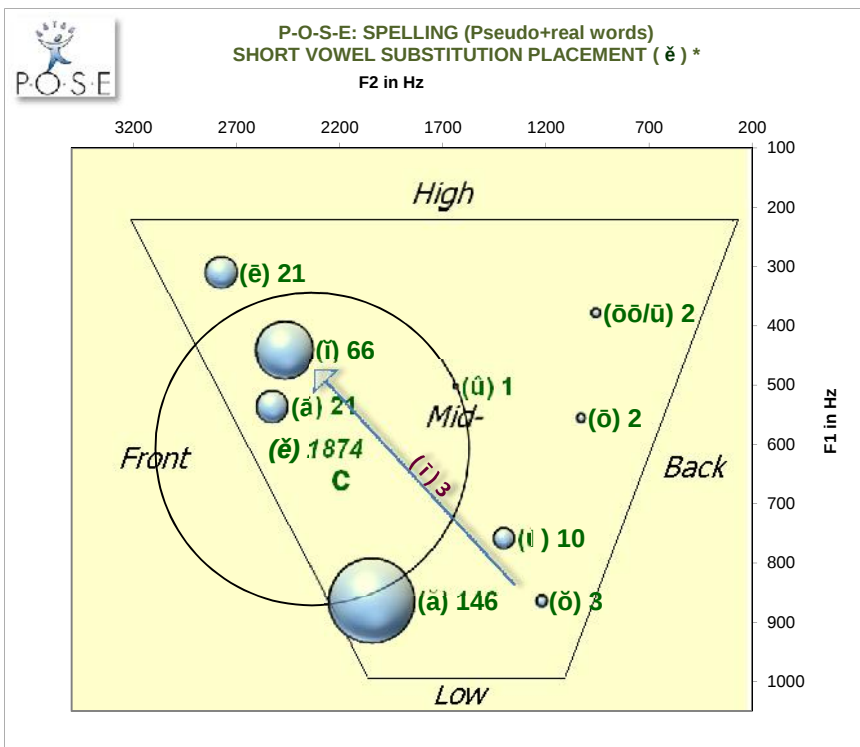


Mean Reading Response Distance to Target (ĭ)	2.52	Bark
Dispersion (SD) re Centroid of Responses	2.32	Bark
Centroi	F1	F2
kHz	679	1954
Bark	6.37	12.86

**EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ī***	33
oi	0
ou	0
***Graphic extrapolation	
EXCEPTION	0
VOWEL/ITEM ABSENT	1

P-O-S-E © SHORT VOWEL SUBSTITUTION PHONOLOGICAL ARRAY (ě) "bet"

School(s):	OB-PAS-STRAT	Grade:	3	Year(s):	2006, 2007	Student N:	275
	N (ě) items	N correct	% Correct		N Errors	% Errors	
SPELLING:	2200	1874	85.2%		326	14.8%	
READING:	2200	2020	91.8%		180	8.2%	

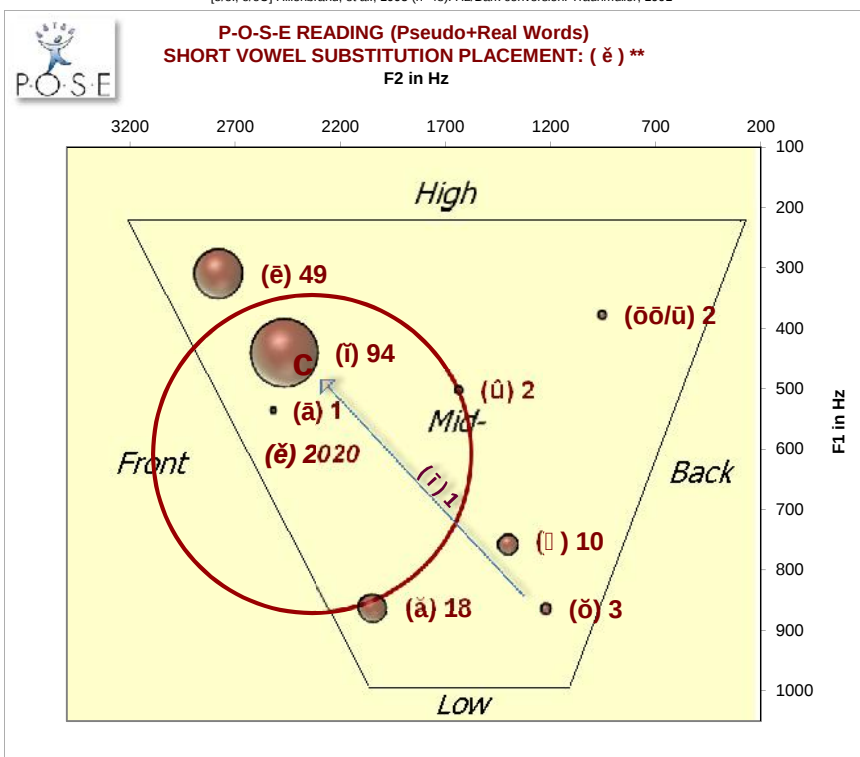


Vowel F1/F2 values based on female voices: Peterson & Barney, 1952 (n=28); Watrous, 1991: [e/et, o/oU] Hillenbrand, et al., 1995 (n=48). Hz/Bark conversion: Trautman, 1991

Mean Spelling Response	Distance to Target (ě)
0.66	Bark
Dispersion (SD) re	Centroid of Responses
2.06	Bark
Centroi	F1 F2
kHz	664 2165
Bark	6.25 13.54

*EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ɪ***	3
oi	0
ou	0
***Graphic extrapolation	
EXCEPTION	
	45
VOWEL/ITEM ABSENT	
	6

Target
Spelling
Reading
C Centroid

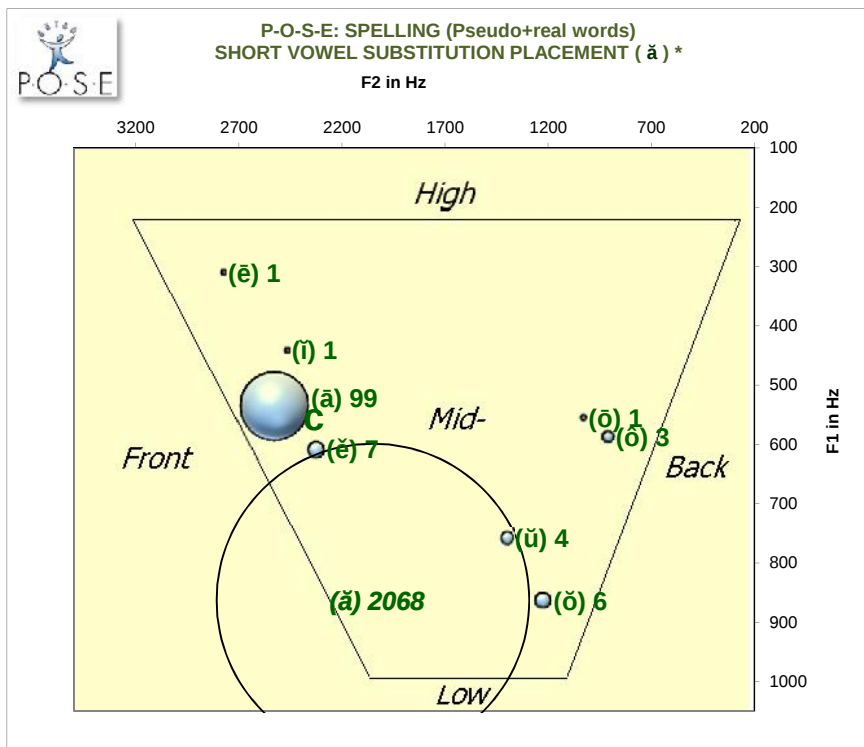


Mean Reading Response	Distance to Target (ě)
1.24	Bark
Dispersion (SD) re	Centroid of Responses
1.98	Bark
Centroi	F1 F2
kHz	461 2364
Bark	4.58 14.13

**EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ɪ***	1
oi	0
ou	0
***Graphic extrapolation	
EXCEPTION	
	0
VOWEL/ITEM ABSENT	
	0

P-O-S-E © SHORT VOWEL SUBSTITUTION PHONOLOGICAL ARRAY (ä) "bat"

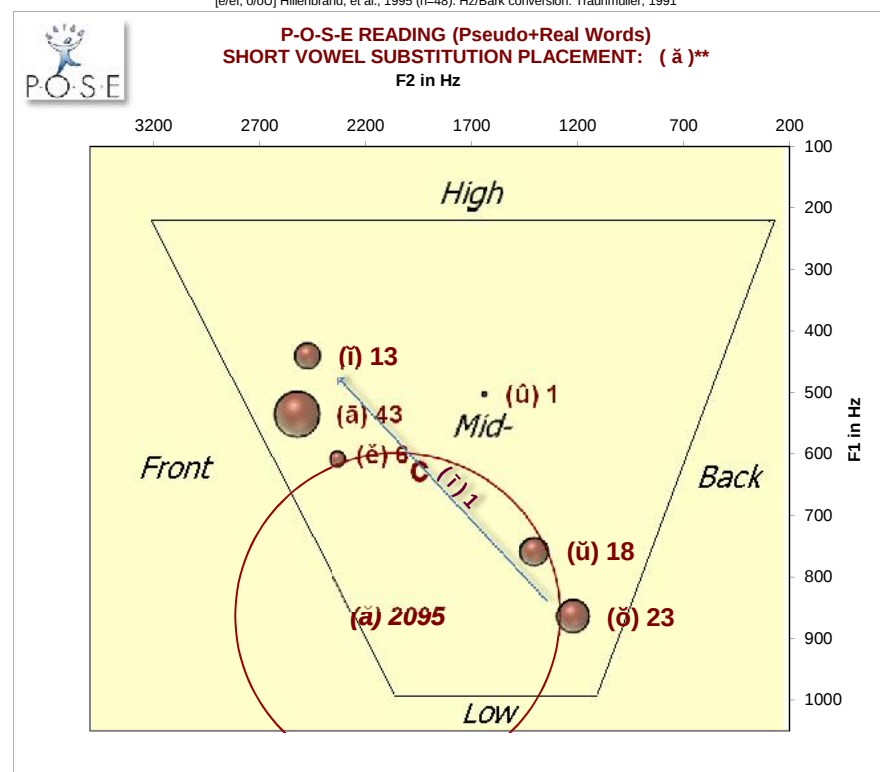
School(s):	OB-PAS-STRAT	Grade:	3	Year(s):	2006, 2007	Student N:	275
	N (ä) items	N correct	% Correct		N Errors	% Errors	
SPELLING:	2200	2068	94.0%		132	6.0%	
READING:	2200	2095	95.2%		105	4.8%	



Mean Spelling Response	Distance to Target (ä)
2.38	Bark
Dispersion (SD) re	Centroid of Responses
1.74	Bark
Centroid	F1 F2
kHz	560 2311
Bark	5.43 13.98

*EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ī	0
oi	0
ou	0
EXCEPTION	
	7
VOWEL/ITEM ABSENT	
	3

Target
Spelling
Reading
Centroid

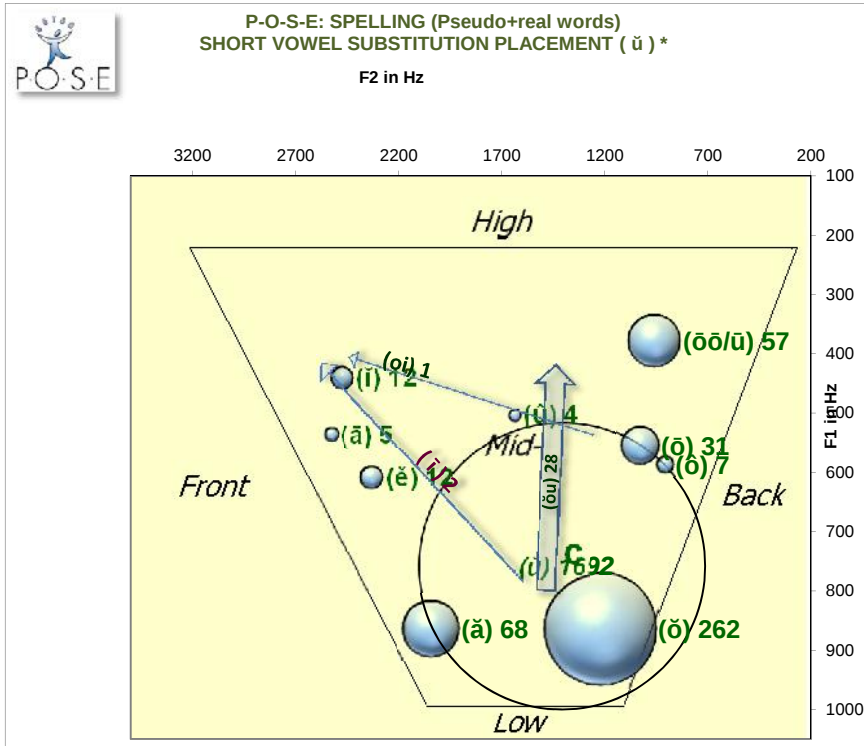


Mean Reading Response	Distance to Target (ä)
1.72	Bark
Dispersion (SD) re	Centroid of Responses
2.42	Bark
Centroid	F1 F2
kHz	630 1929
Bark	5.99 12.77

**EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ɪ***	1
oi	0
ou	0
***Graphic extrapolation	
EXCEPTION	
	0
VOWEL/ITEM ABSENT	
	0

P-O-S-E © SHORT VOWEL SUBSTITUTION PHONOLOGICAL ARRAY (ü) "but"

School(s):	OB-PAS-STRAT	Grade:	3	Year(s):	2006, 2007	Student N:	275
	N (ü) items	N correct	% Correct		N Errors	% Errors	
SPELLING:	2200	1692	76.9%		508	23.1%	
READING:	2200	2113	96.0%		87	4.0%	

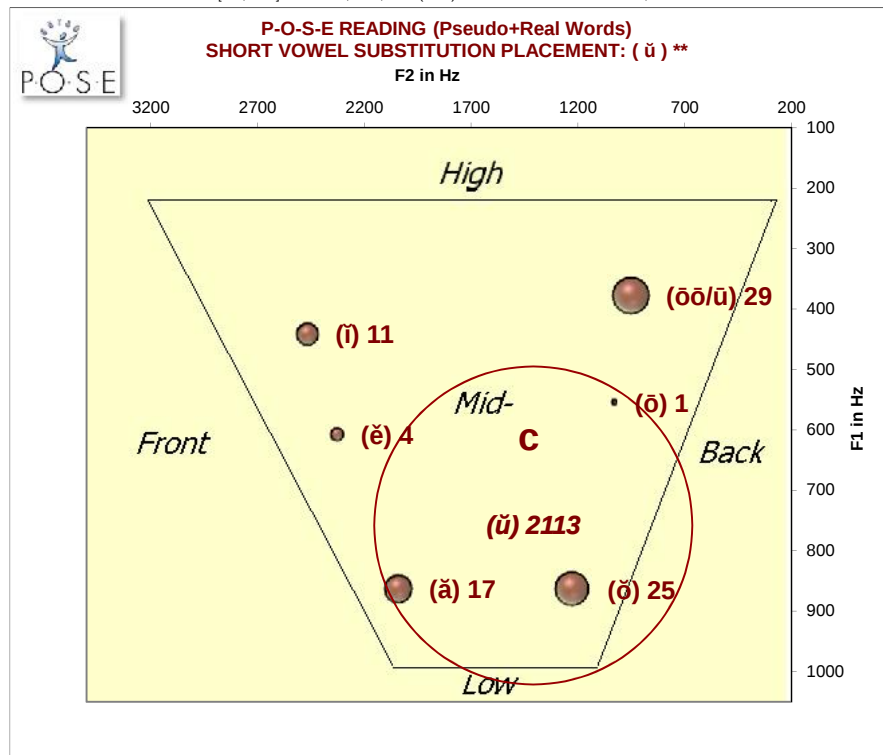


Vowel F1/F2 values based on female voices: Peterson & Barney, 1952 (n=28); Watrous, 1991: [e/ɛ, o/oʊ] Hillenbrand, et al., 1995 (n=48). Hz/Bark conversion: Trautman, 1991

Mean Spelling Response Distance to Target (ü)	0.39	Bark
Dispersion (SD) re Centroid of Responses	2.28	Bark
Centroi	F1	F2
kHz	740	1332
Bark	6.82	10.32

*EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ī***	2
oi***	1
ou***	28
***Graphic extrapolation	
EXCEPTION	
	13
VOWEL/ITEM ABSENT	
	6

Target	Spelling
Reading	Centroid



Mean Reading Response Distance to Target (ü)	1.09	Bark
Dispersion (SD) re Centroid of Responses	2.99	Bark
Centroi	F1	F2
kHz	613	1418
Bark	5.86	10.72

**EXCLUDED ERRORS	
PHONEMIC DIPHTHONGS	
ī	0
oi	0
ou	0
EXCEPTION	
	0
VOWEL/ITEM ABSENT	
	0