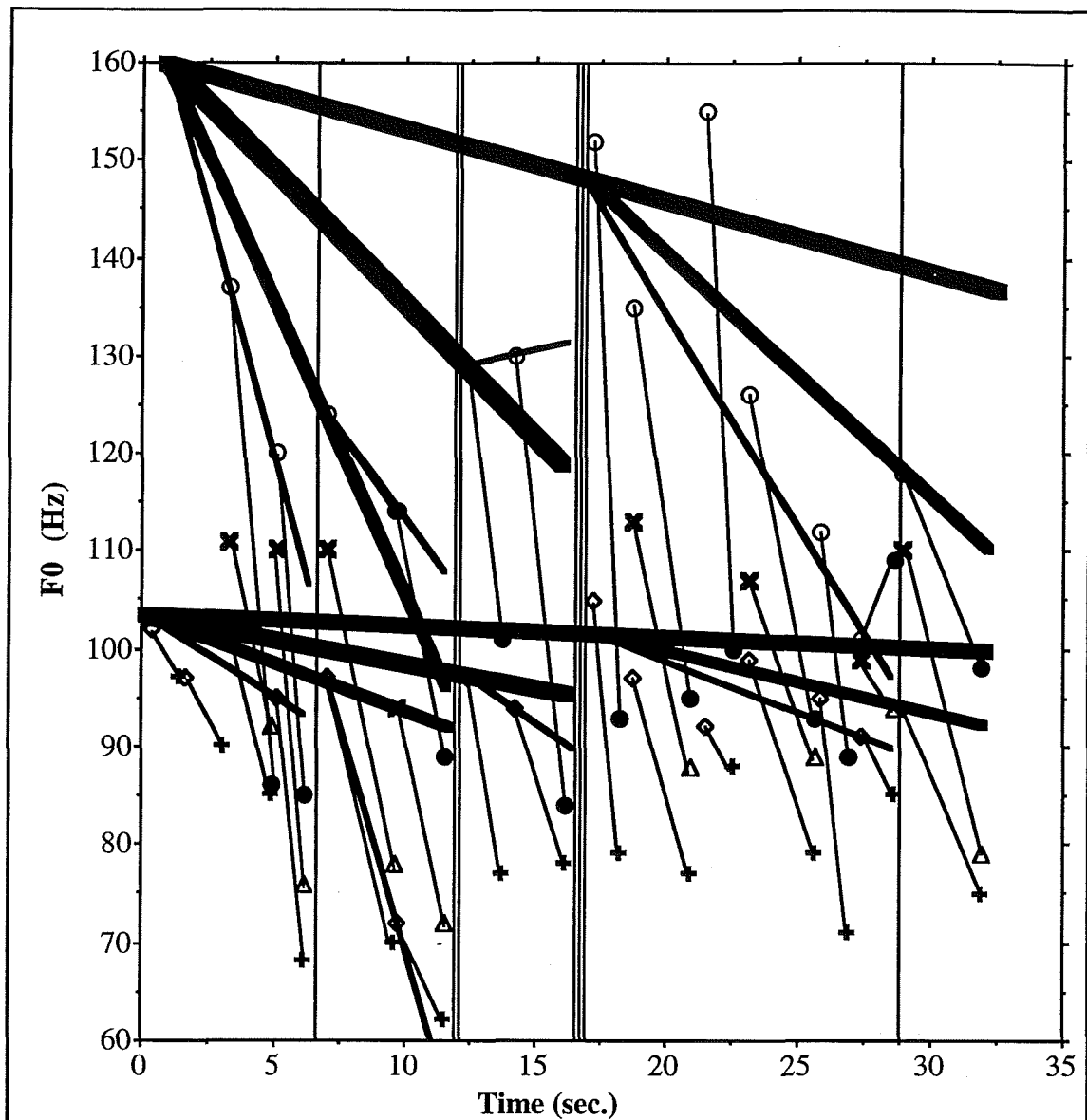
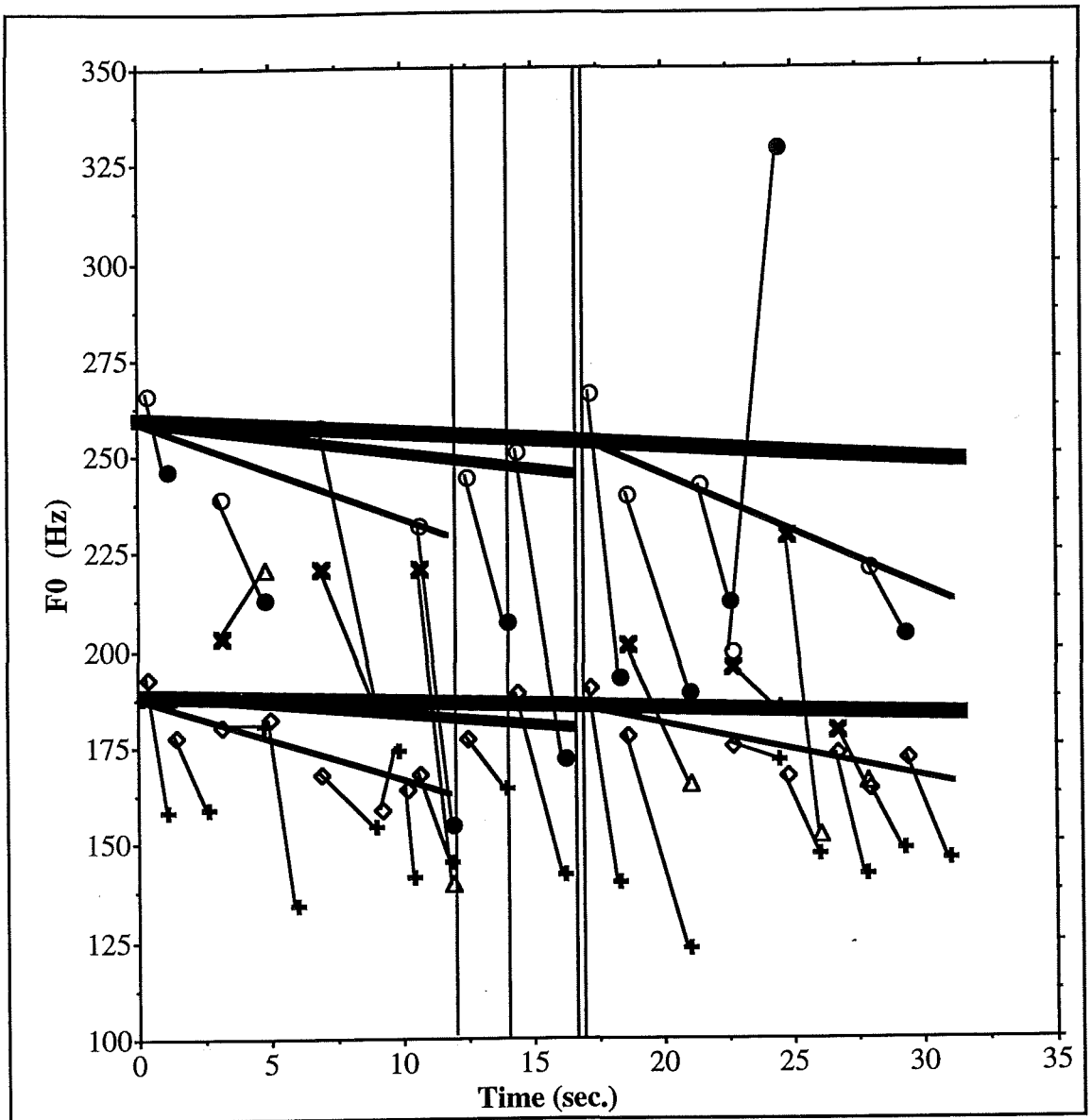


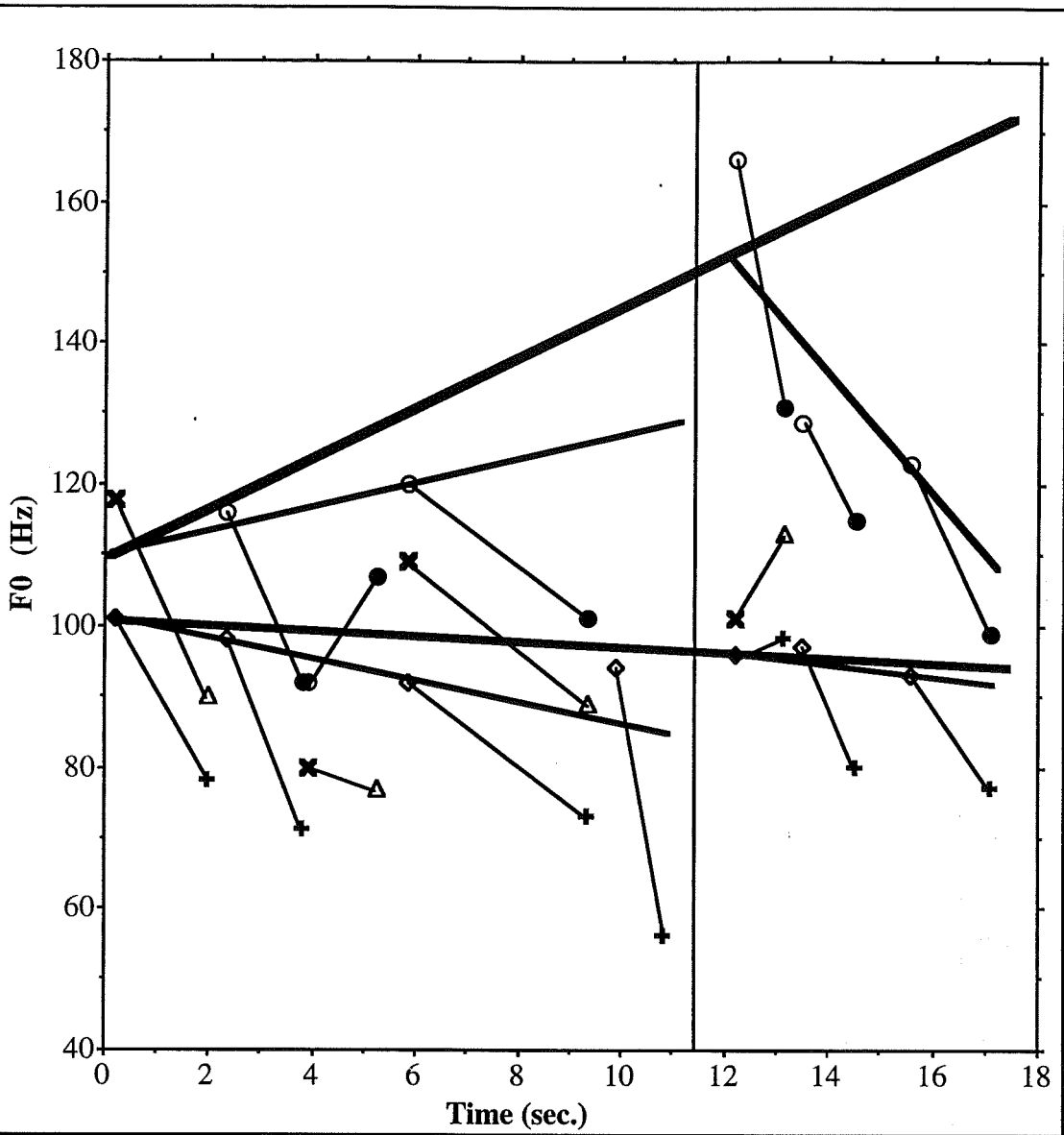
Par. 22/A.R.



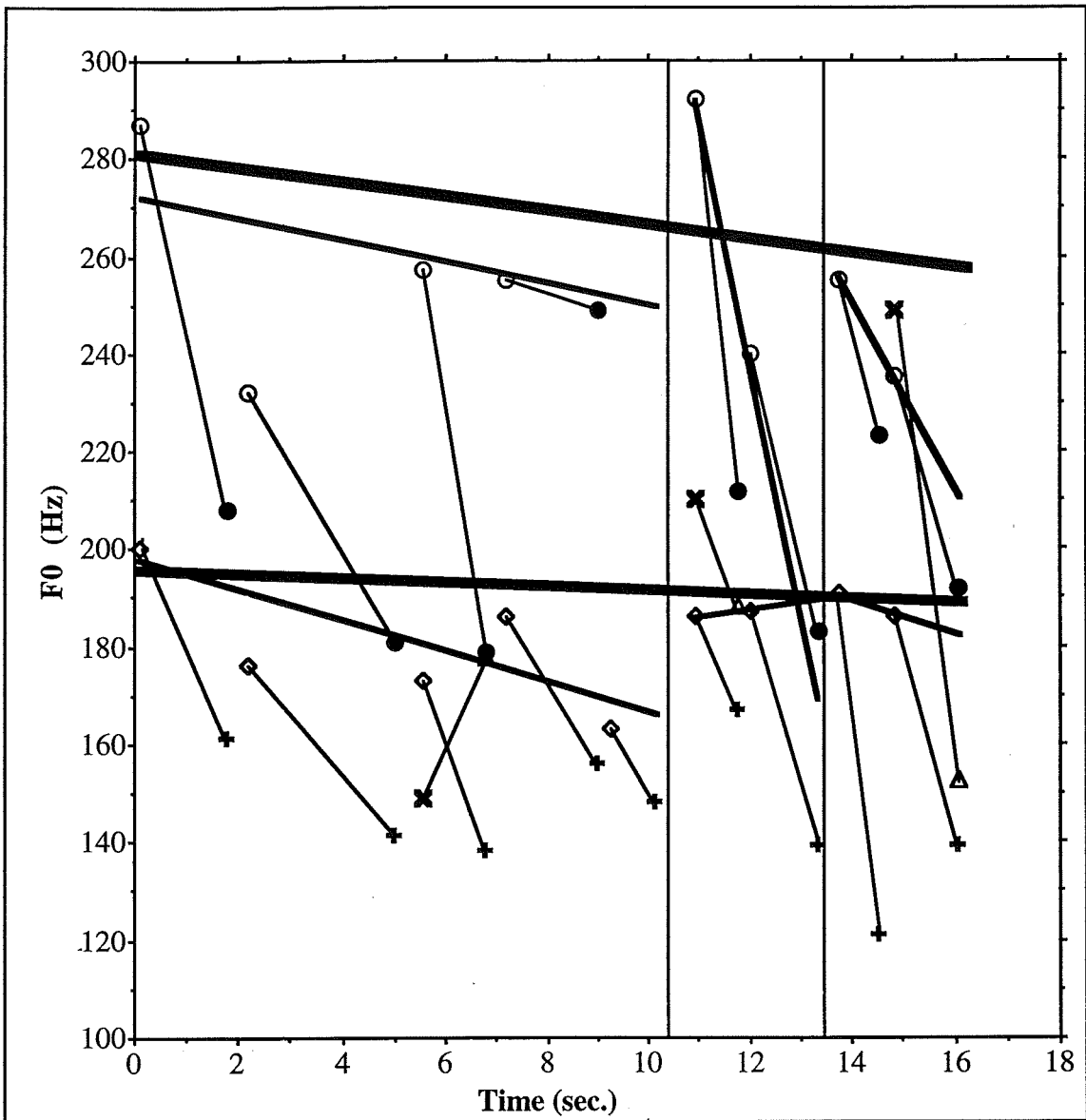
Par. 22/M.E.



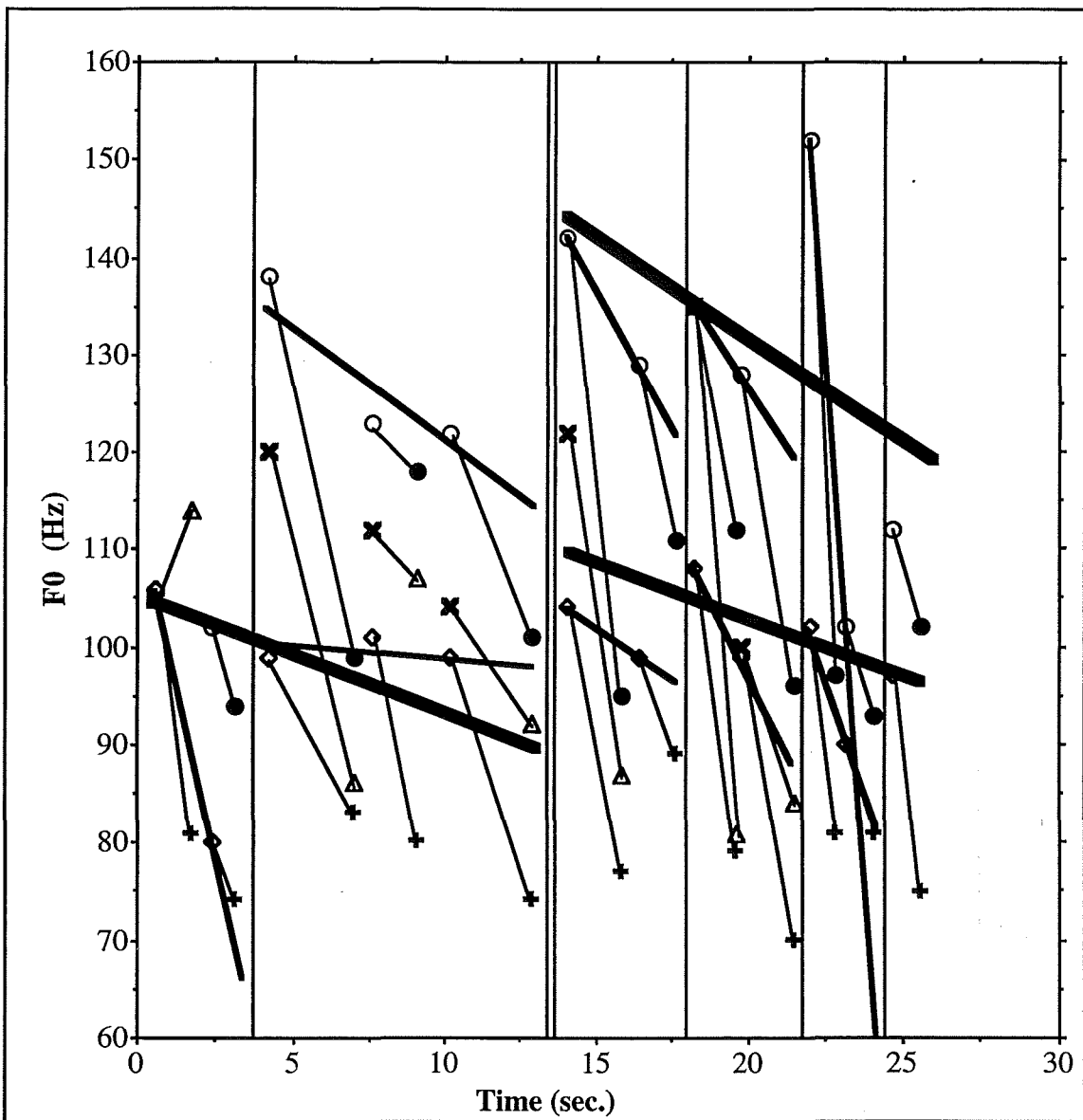
Par. 24/A.R.



Par. 24/M.E.



Par. 12/A.R.



4. ANALYSIS OF 'SUPRA-DECLINATION' IN PARAGRAPHS

This section presents the results of the paragraph 'supra-declination' analysis discussed in section 7.5.1 of the first volume. The results are presented separately for 'sentence initial' and for 'sentence final' points (see section 7.5.1 for a definition of these labels): section 4.1 includes the data about the F0 value at the beginning of top and bottom lines in sentence initial position, and section 4.2 includes the data about the F0 value at the end of top and bottom lines in sentence final position. The results are presented as a function of the number of sentences of the paragraphs (see section 7.1 in the first volume for a definition of the variable 'number of sentences' in the paragraphs sub-corpus), and the location of the sentence within the paragraph.

4.1. Sentence initial values

4.1.1. Beginning topline

Number of sentences in the paragraph						
A.R.			M.E.			
Sentence number	'Cat. 1'	'Cat. 2'	'Cat. 3'	'Cat. 1'	'Cat. 2'	'Cat. 3'
1	(4 cases) 119.75	(3 cases) 132.33	(2 cases) 120.5	(4 cases) 282.5	(3 cases) 280.33	(4 cases) 262
2		(4 cases) 128	(4 cases) 139.75		(3 cases) 266.67	(3 cases) 282.67
3			(4 cases) 130.75			(3 cases) 238.33

4.1.2. Beginning bottomline

Number of sentences in the paragraph						
A.R.			M.E.			
Sentence number	'Cat. 1'	'Cat. 2'	'Cat. 3'	'Cat. 1'	'Cat. 2'	'Cat. 3'
1	(6 cases) 84.17	(4 cases) 97	(4 cases) 98.75	(6 cases) 188.83	(4 cases) 187	(4 cases) 191.5
2		(4 cases) 88.25	(4 cases) 98.75		(3 cases) 177.33	(4 cases) 193.75
3			(4 cases) 96.5			(4 cases) 182.75

4.2. Sentence final values

4.2.1. End topline

Number of sentences in the paragraph						
A.R.				M.E.		
Sentence number	'Cat. 1'	'Cat. 2'	'Cat. 3'	'Cat. 1'	'Cat. 2'	'Cat. 3'
1	(5 cases) 95.2	(3 cases) 82.67	(3 cases) 107	(6 cases) 193.5	(4 cases) 175.75	(3 cases) 190.67
2		(4 cases) 97	(4 cases) 98.5		(2 cases) 189.5	(3 cases) 176.67
3			(4 cases) 94			(3 cases) 192.67

4.2.2. End bottomline

Number of sentences in the paragraph						
A.R.				M.E.		
Sentence number	'Cat. 1'	'Cat. 2'	'Cat. 3'	'Cat. 1'	'Cat. 2'	'Cat. 3'
1	(6 cases) 66.83	(4 cases) 69.75	(4 cases) 68.25	(6 cases) 145.33	(3 cases) 141.67	(4 cases) 141.5
2		(4 cases) 72.75	(4 cases) 72		(4 cases) 144.25	(4 cases) 144.25
3			(4 cases) 75			(4 cases) 147.5

5. INITIAL AND FINAL VALUES AND PARAGRAPH LENGTH

This section presents the results of the analysis of the variation of the initial and final points of the paragraphs as a function of paragraph length, discussed in section 7.6 of the first volume. The tables present mean values for T.I. (Topline Initial), T.F. (Topline Final), B.I. (Bottomline Initial) and B.F. (Bottomline Final) points in the analysed paragraphs (see section 7.6 of the first volume for a definition of these points), as a function of paragraph length (see section 7.1 in the first volume for a definition of the variable 'paragraph length' in the paragraphs sub-corpus). The results are presented in two different tables, the first one including the global results, separated only by speaker (section 5.1), and the second one with the results also separated by 'paragraph length' category (section 5.2).

5.1. Global results

Line	Point	Speaker	Count	Mean	Standard Deviation
Top	T.I.	A.R.	9	124.11	7.2
		M.E.	11	274.45	25.28
	T.F.	A.R.	13	95.38	13.36
		M.E.	11	192.55	18.13
Bottom	B.I.	A.R.	14	92	8.85
		M.E.	14	189.07	12.27
	B.F.	A.R.	14	70.86	6.65
		M.E.	14	145.64	5.6

5.2. Results by length category

Paragraph length category	Speaker	Initial		Final	
		T.I.	B.I.	T.F.	B.F.
Sil. 1	A.R.	117.5 (2)	86 (2)	96 (1)	69.5 (2)
	M.E.	271.5 (2)	177.5 (2)	189 (2)	147 (2)
Sil. 2	A.R.	130.33 (3)	89 (5)	102.8 (5)	72.8 (5)
	M.E.	291.33 (3)	195.6 (5)	198.5 (4)	145 (5)
Sil. 3	A.R.	124.5 (2)	96 (4)	92.25 (4)	73 (4)
	M.E.	265.5 (4)	189.25 (4)	193.67 (3)	142.5 (4)
Sil. 4	A.R.	121 (2)	95.67 (3)	87 (3)	65.67 (3)
	M.E.	270 (2)	185.67 (3)	182.5 (2)	150 (3)

APPENDIX 10

MODELLING EXAMPLE

1. INPUT

This section includes an hypothetical representation of the input information necessary for the generation of the intonation contour of a sample paragraph, using the model proposed in this work. A more detailed explanation of the contents of this input representation can be found in section 8.1 of the first volume.

[[[La dotación policial,] (*Beginning parenthetical element*) [después de forzar una de las ventanas de la **planta baja de la casa,**]]IC1 (*Subject/Predicate*)
[sofocó el **fuego** con el extintor del **vehículo.**]]IC2]S1 (*Sentence-Declarative*)

[[[Una vez en el interior,]]IC1 (*End fronted element*)
[[los agentes encontraron a **tres de los niños.**]]IC2]S2 (*Sentence-Declarative*)

[[[Los vecinos]]IC1 (*Subject/Predicate*)
[[[informaron entonces de que en la vivienda se encontraban **más personas dentro**] (*Coordinate clauses*) [y, en una segunda intervención,]]IC
(*End fronted element*)
[[la policía encontró al **cuarto niño** y a la **mujer.**]]IC]IC2]S3
(*Sentence/Declarative*)

Par. 38, 'News' set, speaker M.E.

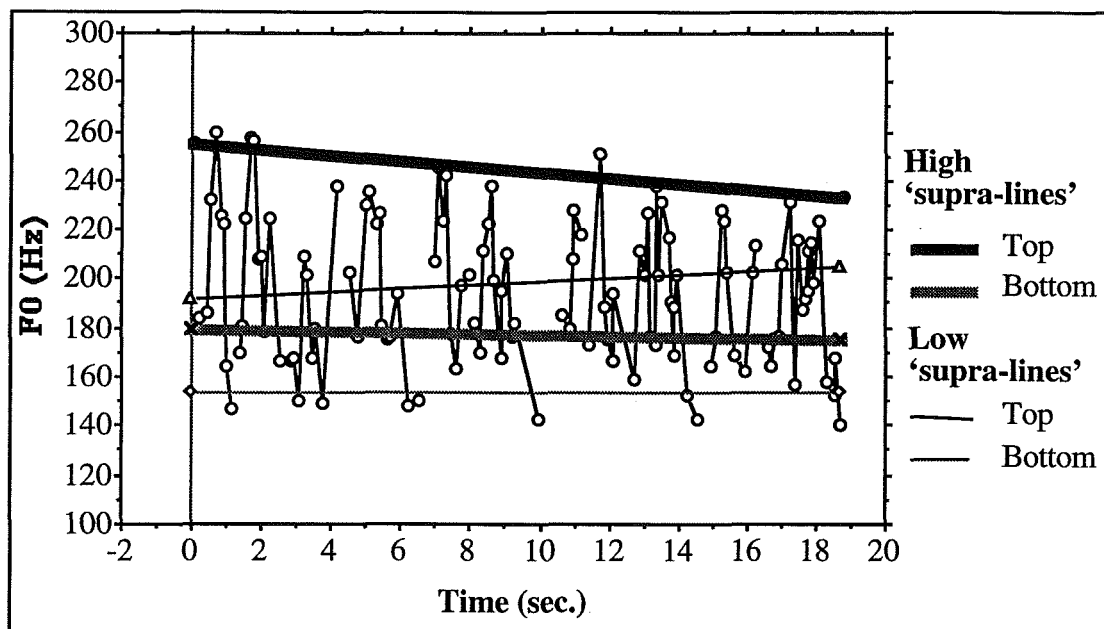
2. GLOBAL LEVEL

This section illustrates the generation process of the set of top and bottom lines for the different-level global intonation units defined in the input representation of section 1. Three different generation steps are hypothesized here for the chosen sample paragraph: paragraph (illustrated in section 2.1), sentence (illustrated in section 2.2) and intonational clause (illustrated in section 2.3). The corresponding intonational structure has been added to each figure in order to facilitate the interpretation. The stylized contour of the paragraph as uttered by speaker M.E. has also been included in all cases.

This global-level generation process is discussed in section 8.2.1 of the first volume.

2.1. Paragraph

[[[La dotación policial,] [después de forzar una de las ventanas de la planta baja de la casa,]] [sofocó el fuego con el extintor del vehículo.]] [[Una vez en el interior,]] [[los agentes encontraron a tres de los niños.]] [[Los vecinos]] [[informaron entonces de que en la vivienda se encontraban más personas dentro] [y, en una segunda intervención,]] [[la policía encontró al cuarto niño y a la mujer.]]]]

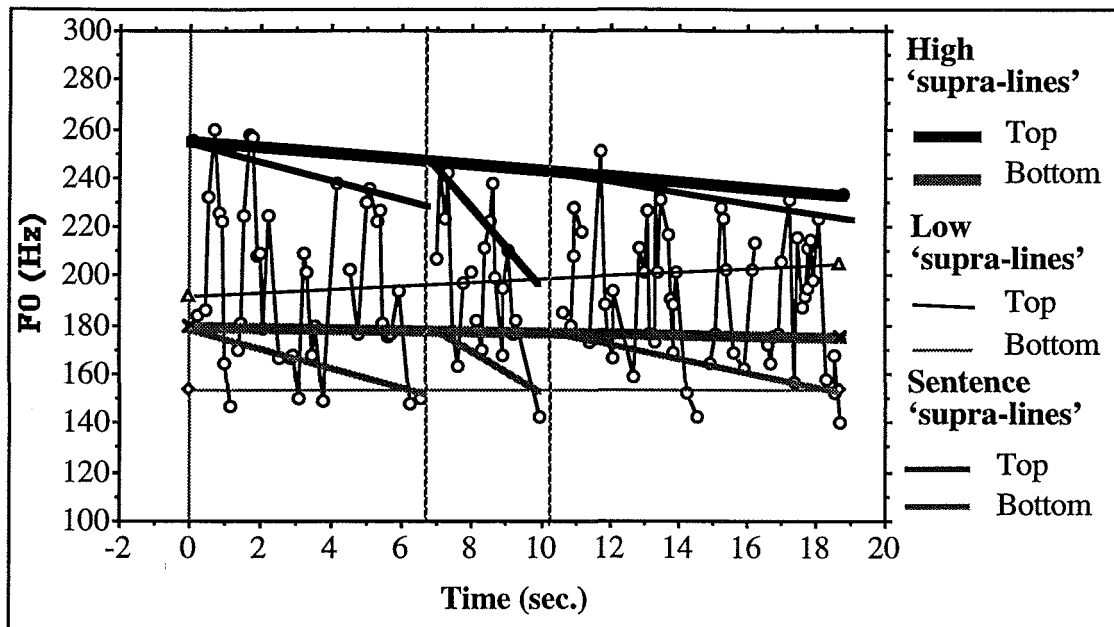


2.2. Sentences

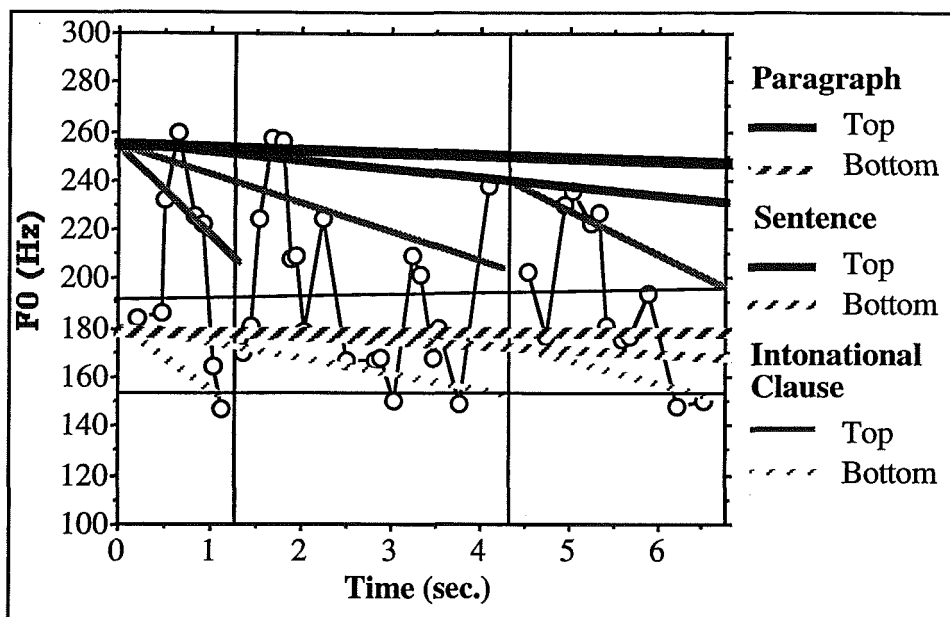
[[[La dotación policial,] [después de forzar una de las ventanas de la planta baja de la casa,]] [sofocó el fuego con el extintor del vehículo.]]

[[[Una vez en el interior,]] [[los agentes encontraron a tres de los niños.]]]

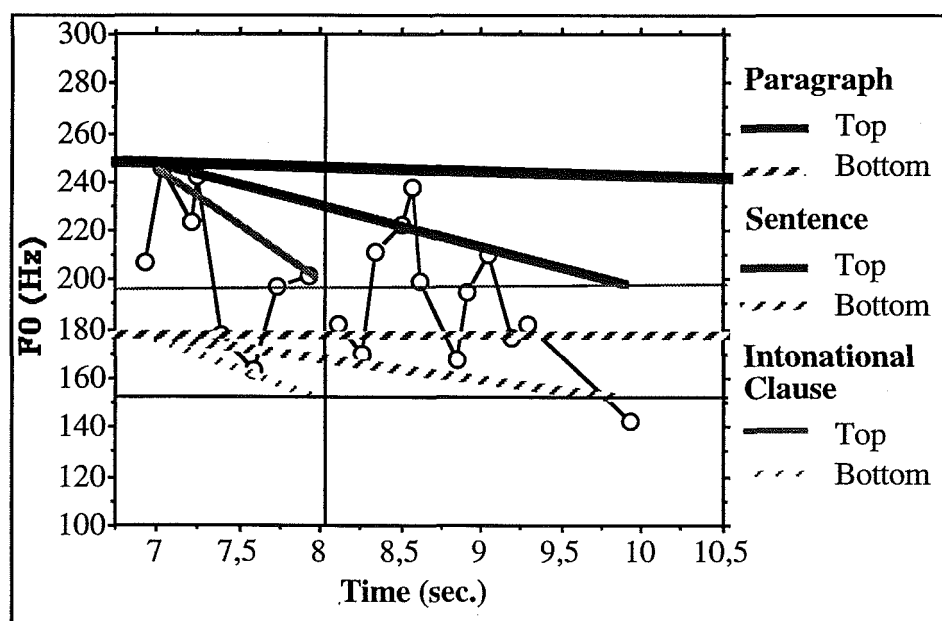
[[[Los vecinos]] [[informaron entonces de que en la vivienda se encontraban más personas dentro] [y, en una segunda intervención,]] [[la policía encontró al cuarto niño y a la mujer.]]]



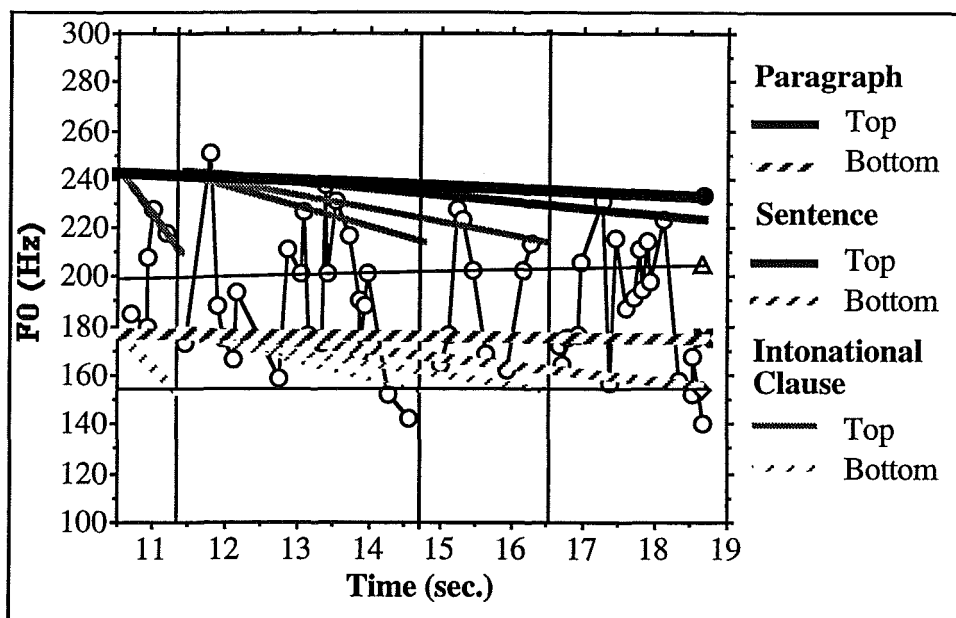
2.3. Intonational clauses



[[[La dotación policial,] [después de forzar una de las ventanas de la planta baja de la casa,]] [sofocó el fuego con el extintor del vehículo.]]



[[[Una vez en el interior,]] [[los agentes encontraron a tres de los niños.]]]

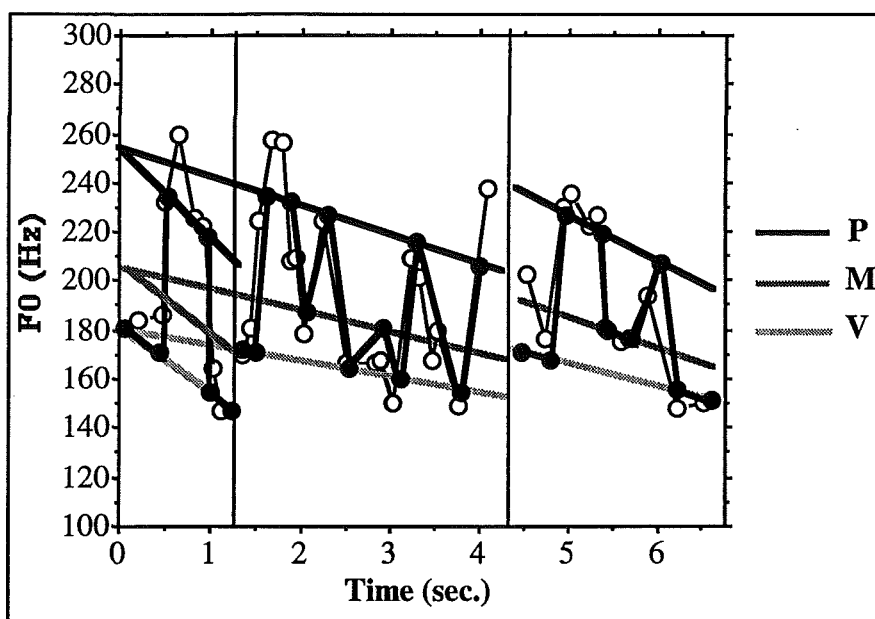


[[[Los vecinos]] [[informaron entonces de que en la vivienda se encontraban más personas dentro] [y, en una segunda intervención,]] [[la policía encontró al cuarto niño y a la mujer.]]]]

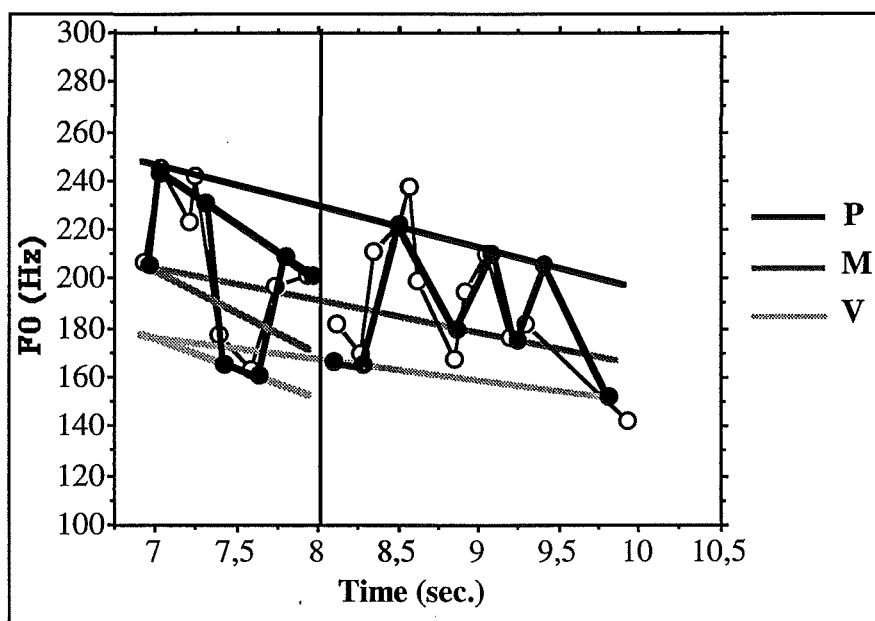
3. LOCAL LEVEL

This section illustrates the superposition process of the local patterns to the grid of top, mid and bottom lines created by the global level. Separate figures for each sentence of the paragraph have been included. Each figure presents the 'real' stylized contour (white dots) as produced by speaker M.E., the predicted top, mid and bottom lines for each phonic group of the sentence, and the predicted intonation contours (dark dots). The intonational structure corresponding to each figure has also been included.

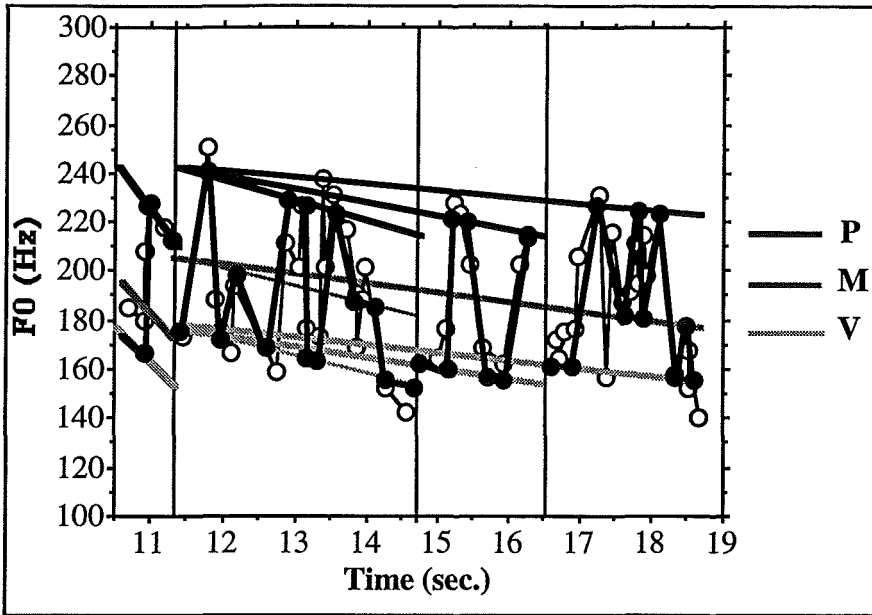
This local-level generation process is discussed in section 8.2.2 of the first volume.



[[[La dotación policial,] [después de forzar una de las ventanas de la planta baja de la casa,] [sofocó el fuego con el extintor del vehículo.]]



[[[Una vez en el interior,] [[los agentes encontraron a tres de los niños.]]]

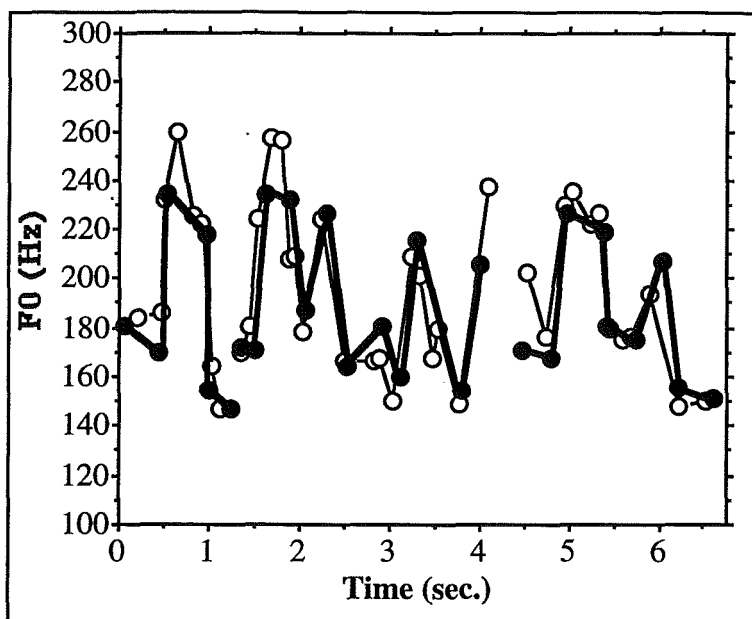


[[[Los vecinos]] [[informaron entonces de que en la vivienda se encontraban más personas dentro] [y, en una segunda intervención,]] [[la policía encontró al cuarto niño y a la mujer.]]]]

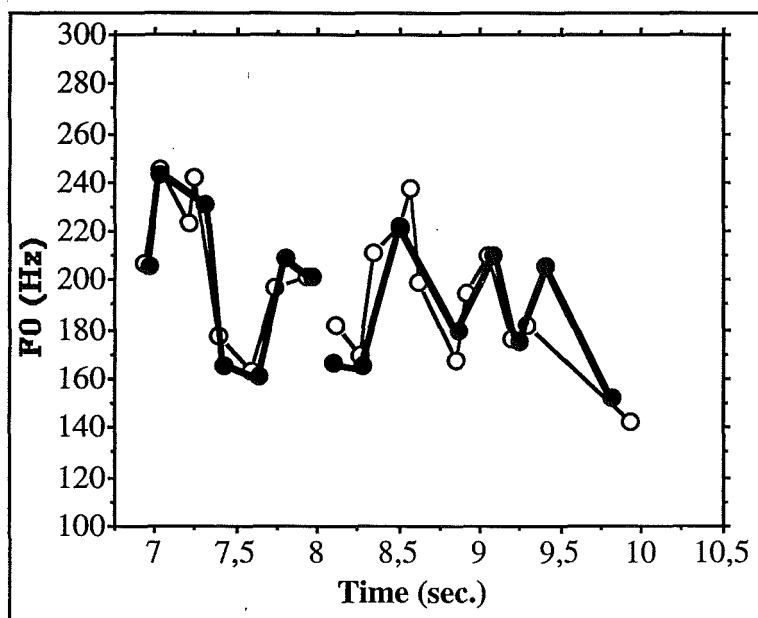
4. OUTPUT

This section illustrates the hypothesized output of the model for the considered sample paragraph. As in the case of the previous section, separate figures have been included for each sentence of the paragraph, in order to facilitate the interpretation. Each figure contains the 'real' stylized contour, as produced by speaker M.E. (white dots), and the intonation contour predicted by the model (dark dots). The intonational structure corresponding to each figure has also been included.

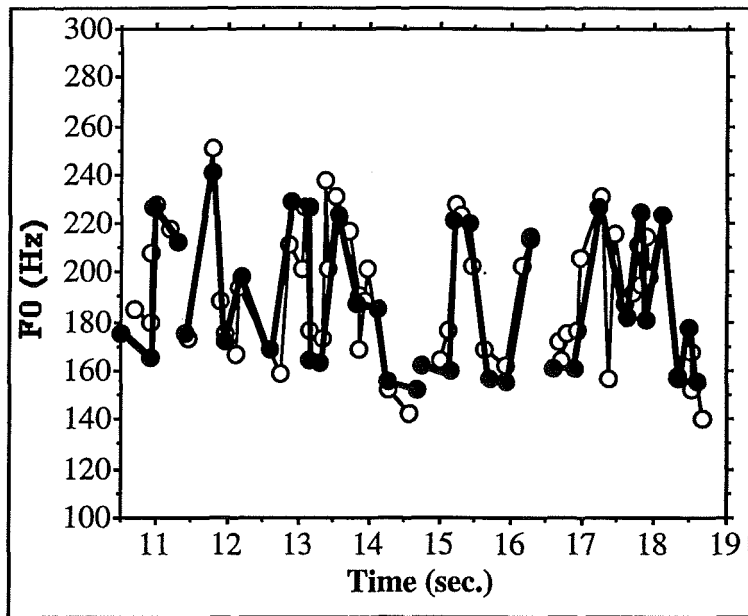
The characteristics of the output representation of the proposed model are discussed in section 8.3 of the first volume.



[[[La dotación policial,] [después de forzar una de las ventanas de la planta baja de la casa,] [sofocó el fuego con el extintor del vehículo.]]



[[[Una vez en el interior,] [[los agentes encontraron a tres de los niños.]]]



[[[Los vecinos]] [[informaron entonces de que en la vivienda se encontraban más personas dentro] [y, en una segunda intervención,]] [[la policía encontró al cuarto niño y a la mujer.]]]]