



ACTIVITIES on JAPANESE PROSODIC CORPUS

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Scientific Research of Priority Areas "The Realization of Advanced Spoken Language Information Processing from Prosodic Features" Professor Keikichi Hirose, Department of Frontier Informatics, School of Frontier Sciences, The University of Tokyo. Teams and subjects: Administration group (Keikichi Hirose, The University of Tokyo) Analysis of prosody its formalization and modeling (Hiroya Fujisaki, Tokyo Science University) Variability of Prosody and its Quantitative Expression (Masuzo YANAGIDA, Doshisha University) Design of prosodic corpora and automation of the developing process (Shigeyoshi Kitazawa, Shizuoka University) Prosody control for high-quality speech synthesis (Keikichi Hirose, The University of Tokyo) Use of prosodic information in speech recognition and understanding (Kazuhiko Ozeki, Electro Communication University of Tokyo) Discourse system with enhanced prosody control (Tetsunori Kobayashi, Waseda University) Applications of Prosody Processing Technology to the Field of Medicine and Welfare (Hideki Kasuya, Utsunomiya University)

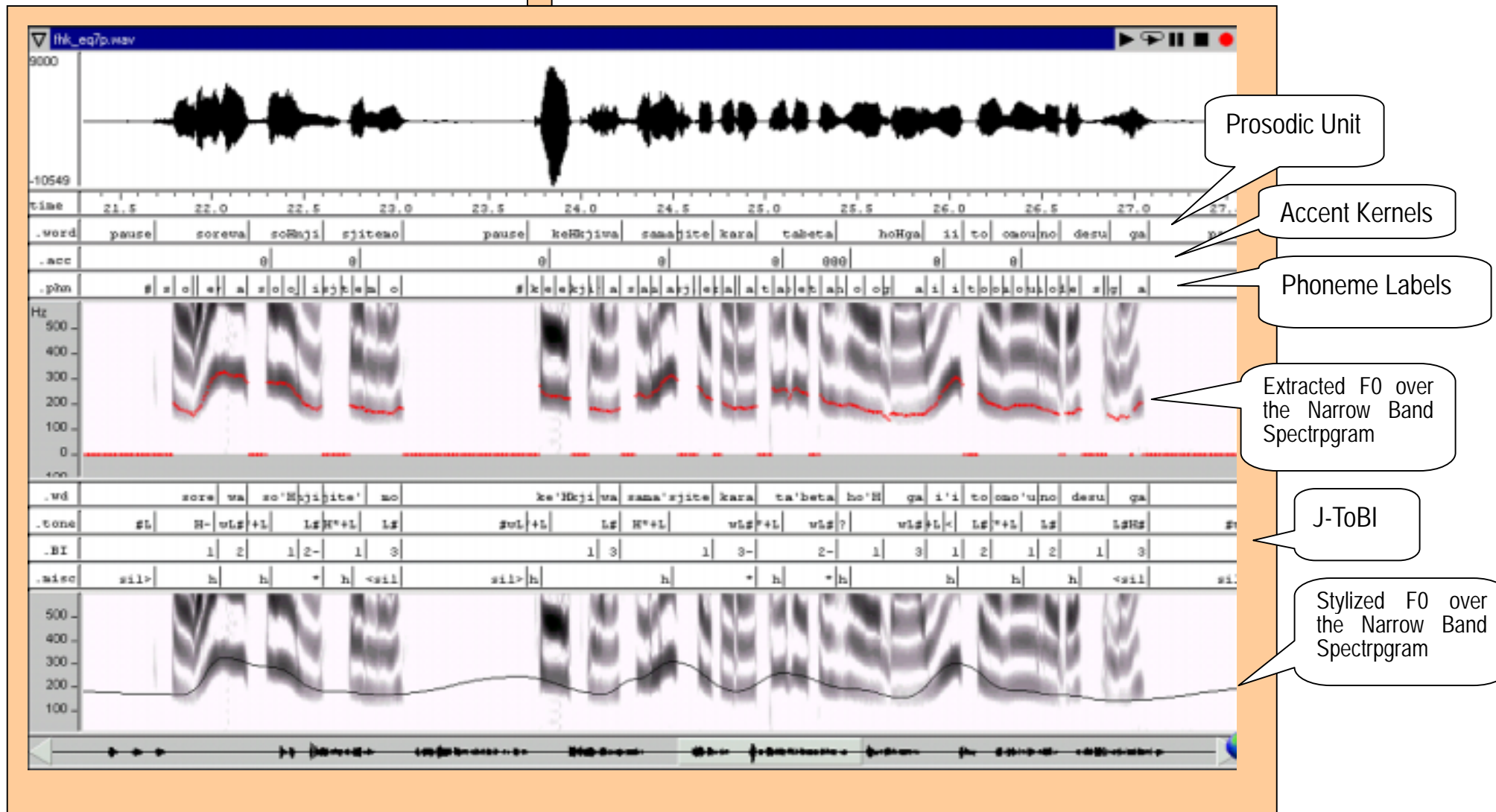
MULTEXT: Parallel Corpus

	Japanese-MULTEXT Prosodic Corpus	MULTEXT Prosodic database
Language	Tokyo dialect	French, English, Italian, German, Spanish
Speech Duration	3 hours and 37 minutes	4 hours and 20 minutes
Speakers	3 male and 3 female	50 (5 male and 5 female per lang.)
Recording Unit	Translated EUROM1 Passage	EUROM1 Passage
Spline Stylised	Yes	Yes
Symbolic Coding	108,500 J-ToBI	50,000 pitch movements
Orthographic transcription	Given	Given
Phoneme transcription	Yes	No
Manual correction	Yes	Yes
Re-synthesis	No	Yes
EKG waveform	Yes	No
EKG analysis	Will be available soon	No

Japanese Prosodic Corpora

	Priority Project	Area	ASJ Guide-task	Multimodal Dialogue	Map Task	Weather Forecast
Speaking style	Played dialogue		Read speech	Debate task	Natural dialogue	Read speech
Speakers	83		18 male, 18 female	12 male, 12 female	16 males	2 male, 2 female
Duration	6400 sentences		10 hours	360 minutes	68 minutes	1027 sentences
Annotation	Sentence, pause, J-ToBI*		Sentence, pause, J-ToBI*	Words, gaze, nod, J-ToBI*	J-ToBI	Sentence J-ToBI*
Dialogues	64		202	72	8	
F0	Min. Max.		Min. Max.	No	Yes	Yes
Phoneme	No		No	No	Yes	Yes
Contact	S. Itahashi		S. Itahashi	Y. Horiuchi	Y. Horiuchi	K. Hirose

J-ToBI*: planned



Annotation of Gesture in Speech Dialogue (Yasuo Horiuchi, Chiba University)

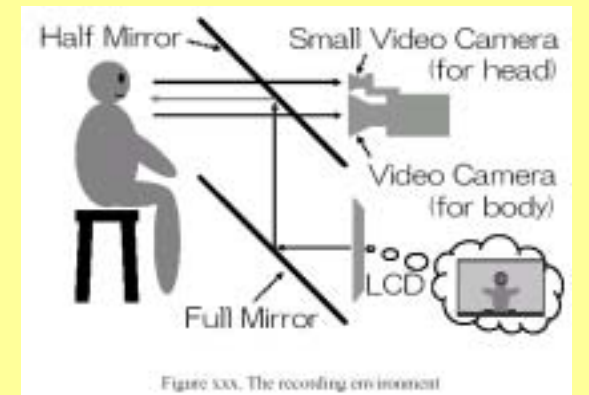


Figure xxx. The recording environment