Erratum: “Speech reception by listeners with real and simulated hearing impairment: Effects of continuous and interrupted noise” [J. Acoust. Soc. Am. 128, 342–359 (2010)]

Joseph G. Desloge, Charlotte M. Reed, Louis D. Braida, Zachary D. Perez, and Lorraine A. Delhorne

Research Laboratory of Electronics, Massachusetts Institute of Technology, Cambridge, Massachusetts 02139

(Received 4 August 2010; revised 17 August 2010; accepted 18 August 2010)

[DOI: 10.1121/1.3488343]

PACS number(s): 43.66.Sr, 43.71.Ky [ADP]

Figures 5–7 of the original version of this paper erroneously omitted some of the descriptive material that assists in understanding the data presented. These amended figure captions provide clarification of these figures.

FIG. 5. Measurements of masked speech-reception thresholds (dB SPL) in 30 dB SPL continuous background noise types for Unaided (top panel) and NAL-RP aided (bottom panel) listening conditions. In each panel, the dB SPL threshold is plotted for the 10 HI listeners (light gray) and for the corresponding AM-SIM (medium gray) and NAM-SIM (dark gray) groups. Asterisks indicate a significant difference between the HI and AM-SIM groups and diamonds indicate a significant difference between HI and NAM-SIM groups. The “X” symbols plotted at 65 and 80 dB SPL indicate situations where the 65 and 80 dB noise levels, respectively, did not exceed the 30 dB SPL noise threshold of a given HI listener by at least 10 dB and were therefore not effective as maskers.

FIG. 7. Masking release (MR) as a function of noise level in Unaided and in NAL-RP aided listening conditions. In each panel, MR is plotted for a given HI listener (light gray) and for the corresponding AM-SIM (medium gray) and NAM-SIM (dark gray) groups. The “X” symbols indicate conditions for which the noise was not an effective masker for the HI-listener. Other symbols indicate differences between listener groups. Asterisks indicate a significant difference between HI and AM-SIM, diamonds between HI and NAM-SIM, and circles between AM-SIM and NAM-SIM.

FIG. 6. Measurements of masked speech-reception thresholds (S/N) in four different background noise types for Unaided and NAL-RP aided listening conditions. In each panel, S/N is plotted for a given HI listener (light gray) and for the corresponding AM-SIM (medium gray) and NAM-SIM (dark gray) groups. The noise conditions are 2: 65 dB SPL continuous noise, 3: 65 dB SPL interrupted noise, 4: 80 dB SPL continuous noise, and 5: 80 dB SPL interrupted noise. The “X” symbols indicate conditions for which the noise was not an effective masker for the HI-listener. Other symbols indicate differences between listener groups. Asterisks indicate a significant difference between HI and AM-SIM, diamonds between HI and NAM-SIM, and circles between AM-SIM and NAM-SIM.