Effect of stimulus distribution on the buildup of contextual plasticity in sound localization
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Contextual plasticity (CP) is a form of adaptation in sound localization (Kopco et al., 2007) occurring at short time scales. CP is exhibited by biases in localization of a target when on interleaved trials a target is preceded by an identical distractor originating from fixed location. CP analysis is complicated by the observation that responses gradually drift towards front. Here, we test whether the drifts are related to the fact that stimuli were presented only at one side of subject's midline. Data from 4 previous experiments with various distributions of stimuli relative to subject's midline were analyzed. The results show that the drift becomes steeper when the stimulus distribution mean is more lateral, confirming that it is likely related to the distribution offset from midline. CP was found to modulate the drifts depending on location of the distractor relative to the examined stimulus region.

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