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Cover photograph

Schistocerca gregaria in tethered flight in a wind tunnel. The exposures on the right were made during tetanic activation of the pleuroalar muscle through chronically implanted electrodes on the efferent nerve; those on the left show normal flight. Stimulation of the muscle resulted in a decrease of upstroke supination and downstroke pronation. Failure of downstroke muscles occurred in the upper photographs, reducing the amplitude of the wing stroke. For details, see pp. 55–80.