

# **CORRELATION ANALYSIS OF DUNEDIN WHISTLERS AND GLOBAL LIGHTNING**

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A recent correlation analysis of whistlers recorded at Tihany, Hungary, against global lightning activity indicated that the majority of whistlers were correlated with lightning activity within a few hundred km of the magnetic conjugate point. At Tihany the highest incidence of whistlers occurs at night, which is consistent with maximum ionospheric transparency over the source and receiver. In contrast, whistlers received at Dunedin, New Zealand, are most common around noon. This surprising observation flies in the face of conventional wisdom regarding whistler generation. By means of a correlation analysis the lightning source locations for Dunedin whistlers are identified and an attempt is made to resolve this conundrum.

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