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## Whistler-lightning correlations: tetrachoric index and similarity measures

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Whistler time sequences from Tihany have been correlated against lightning strike data from the WWLLN. Prior to analysis the data were reduced to binary sequences indicating the presence or absence of activity during a given time interval. The Pearson product moment correlation was then used to quantify the agreement between the sequences, thereby producing a map of the regions of the globe most likely to be the source of the Tihany whistlers. The principal merit of the Pearson formulation is that measures of statistical significance are readily available. Since the data in question is dichotomous, the tetrachoric correlation coefficient might be more appropriate. The results of the analysis using tetrachoric correlation and similarity measures will be presented.