

Is there a unique signature in the ULF-response to sprite-associated lightning flashes?

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Making use of observations by the Finnish chain of pulsation magnetometers we select typical properties of the ULF-response to sprite associated lightning events taken from the list of the CAL summer 2003 campaign. We concentrate on frequencies below the Schumann resonance and confront the obtained results with properties obtained from lightning discharges which are not documented as sprite associated ones. The latter we take from listings of the Météorage Lightning Detection Network and World Wide Lightning Location Network which correlate with strong impulsive events seen at the Finnish chain. The evidence shows no unique and identifiable ULF signature relating to the sprites.

