

## **Detection of the low frequency component in signals from the Mediterranean Bolide on June 6, 2002-10-01**

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A large bolide has been observed over the Mediterranean area on June 6, 2002. Infrasonic signals in the range 0.5 – 4Hz have been observed at Swedish infrasonic station in Lycksele (64.6N, 18.7E). It has been found that signals contained a low frequency component indicating a possible occurrence of gravity waves generated by the impact of the bolide. The low frequency component has been enhanced in the data using a wavelet-based filtering procedure generating a unit-variance frequency spectrum. The procedure is enhancing weak signals if they are persistent in time within the analysing window. The low frequency component was dominated by periods of 80 and 43 seconds. Also 28 and 10 second periods were clearly visible.