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## Exploiting infrasound detections to identify and track regional storms

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The infrasound array at Pizskés-tető, Hungary (PSZI) has been operational since May, 2017. Since then PSZI has collected hundreds of thousands detections. These include detections both from known and unknown sources. The categorisation of the detections would be important for future automation. The objective of this study is to identify and collect those detections that belong to local and regional storms and lightnings. We present a methodology to identify storms by correlating lightning data from the Blitzortung database we consider as ground truth with the PMCC infrasound detections at PSZI. We also analyse the seasonal variations in the directions and distances of the detected storms.