



## Radio Meteor Zoo

### Royal Belgian Institute for Space Aeronomy

The overall goal of BIRA-IASB is to be a reference in Belgium in the field of space research focusing on aeronomy and global changes. BIRA-IASB contributes to the knowledge of the Earth's atmospheric environment from the surface to the interplanetary space and in particular studies the evolution of the chemical composition of the atmosphere, in interaction with the dynamics and the structure of the atmosphere. In addition, it has a strong expertise in research on planetary and cometary atmospheres. BIRA-IASB's objective is to develop, maintain and advance scientific services that are built on the knowledge and expertise acquired in aeronomy, for serving the scientific community, the society, and the policy makers.

*“When I first heard of the Radio Meteor Zoo project, I was intrigued. Because who doesn't love meteors? Then I learned the difference between a meteoroid, a meteor and a meteorite. And that is the beauty of Citizen Scientist projects: you always learn something. Sometimes it's a little thing, sometimes you even become a specialist. But that isn't the most important thing. What matters is that with every click, with every classification you are contributing to doing science!”*

*Elisabeth Baeten – Belgium*

### Project Radio Meteor Zoo

The goal of the Radio Meteor Zoo (RMZ) project is to conduct a comprehensive study of meteor showers, test and refine automatic detection algorithms, and foster public engagement and scientific literacy. The project takes place online, making it accessible to enthusiasts worldwide. RMZ mobilizes communities of citizen scientists, amateur astronomers, and science enthusiasts. Citizens participate by analysing spectrograms to identify meteor echoes, contributing to a vast and diverse dataset. The expected impact includes gaining valuable insights into meteor shower dynamics, improving machine learning techniques for automatic detection of meteor echoes, and enhancing public knowledge and involvement in scientific research. This collaborative initiative not only advances scientific understanding but also strengthens the connection between citizens and the natural world. For more information, visit <http://www.radiometeorzoo.be>.

### CALL TO ACTION

You can contribute to our research by visiting <http://www.radiometeorzoo.be>. We also run an educational project called MOMSTER, available in Dutch and French, which utilizes the Radio Meteor Zoo. For more information, visit <https://momster.aeronomie.be>.

### CONTACT INFORMATION

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