• Meteoroid, meteor and meteorite are all words used when talking about meteor showers and sometimes it is a little confusing to know what the difference is!

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Meteors

Meteoroid

A meteoroid is generally accepted as a piece of debris moving through space that is under about 1 metre in size.

Meteor

When a meteoroid comes close enough to the Earth to enter the atmosphere they become a meteor; meteors are what we often refer to as a shooting or a falling star.

Meteorite

If a meteor manages to survive the trip through the Earth's atmosphere and make it down to the surface it can then be referred to as a meteorite.

What are Meteor Showers?

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It is possible to see a meteor, or shooting star, on any night of the year. However, if a number of these 'shooting stars' appear to fall from one area of the sky we tend to call them a meteor shower. These collections of meteor showers are caused when the Earth passes through a cloud of space debris that can interact with our atmosphere.



Amount of Meteoroids

There are a huge amount of Meteoroids, micrometeoroids and space dust that drift around our planet.

Around 15,000 tonnes enter Earth's atmosphere each year.

Allan Hills 84001 Meteorite

On August 6 1996, A meterorite called 'Allan Hills 84001' was thought to have evidence of fossilised bacteria-like lifeforms.

The claim proved controversial however, and it has yet to be verified as the first example of extraterrestrial life.

Watching Meteor Showers Meteor showers can be spectacular sights to watch in the night sky. Here are some tips on how to get the most out of your shooting star searches. **2.** Do Some Research **1.** Find Somewhere Dark **3.** Be Prepared Be prepared for the cold as Find out as much about the The darker your viewing area the more you will be able to meteor shower you are hunting stargazing outside in the small see in the sky during a hours of the night can be a beforehand. stargazing session. chilly experience. Dress warmly All meteor showers have a and bring a warm drink along. Try and stargaze somewhere peak - the point at which the rural and away from sources rate of shooting stars will be of light. more active - and this is generally the best time to view. **4.** Relax, Enjoy and ... Be Patient!

Patience is an essential commodity for a meteor shower hunter. Sit back and relax and don't be put off if you don't spot something straight away.

Meteoroid Dangers

Meteoroids prove a risk not only to us on Earth, but to our astronauts as well.

Space debris is extremely fast moving and can cause damage to spacecraft. Astronauts need to always be aware of impacts and be able to cover and/or repair damage.

Barwell Meteorite

On Christmas Eve 1965, a meteor shower damaged properties in Barwell and most notably, the engine of a car. The insurance company declined compensation for the owner, stating that it was an 'Act of God'.

He then asked the local church to pay for the damage, who also declined!



For more information, please visit: www.spacecentre.co.uk