

Q&As on the RRP-MDT call for applications and about the RRP

Q. I am interested in both **the RRP-MDT** and **the consortium**, are there any limitations to joining each?

A. You can apply for both, as long as you meet the application requirements; the two organizations are completely independent. There are benefits to participating in the RRP-MDT as well as in the consortium where the samples are analyzed. For example, you can add your own input to the protocol definitions and analytical sample amounts. You will also have early access to information on consortium studies.

Q. Does **the RRP-MDT** need to model specific data set or introduce them in a white paper? There seems to be a wide range of interpretation among mineralogy, petrology, etc.

A. Yes, a wide range of experts will be involved in the RRP-MDT and will be asked to propose methods and target species to include a variety of interpretations. They will propose the amount of sample needed for this purpose.

Q. Does **the RRP-MDT** define a common protocol for measuring several isotope systems or does it establish a protocol for each system (precision, ...)? This means for geochemists to work together.

A. The RRP-MDT will also define the isotope measurement protocol. However, since different labs will have different protocols, there should be some parts where a common protocol needs to be defined and some parts where it is not.

Q. You mean **the RRP-MDT** will define analytical protocols for bulk elemental and isotopic composition, but you will also consider organic cosmochemical analysis, and you will also consider molecular analysis?

A. Solar system abundances are derived from elemental abundances, isotopes, and organic matter, but the RRP-MDT will also consider the significance and worth of conducting organic geochemical analyses. And the RRP-MDT should define these as well.

Q. What are your parallel plans with other **CI chondrites**?

A. We may propose to make CI chondrites a running standard. In any case, the RRP-MDT will write these as proposals in a white paper.

Q. How long will **the consortium** analyze the samples?

A. The RRP-MDT will propose specifically, but it is expected to take approximately 6 months or more, a year at the most. We would like to have an outcome paper by the end of 2026 if possible.

Q. When does **the consortium** study begin?

A. The RRP-MDT will compile a white paper over a period of approximately six months after July, which is expected to be completed probably in early 2025. After that, an open call for consortium studies will be launched, and consortium members will be selected after a selection period of two months or more. Consortium members will receive the samples approximately no earlier than summer of 2025.