

# SSHADE Users Newsletter - November 2023 –

## First Ryugu spectra are now available on SSHADE!

Dear SSHADE users,

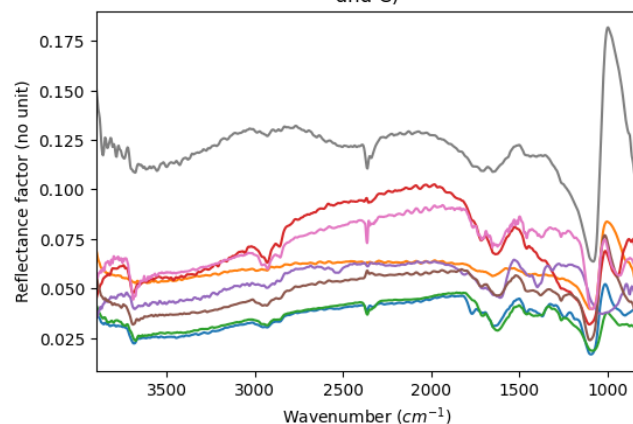
The beautiful touchdown of OSIRIS-Rex a few weeks ago was very exciting news for the astrophysical community and new analyses on such precious samples will begin soon. Indeed, sample return missions have now a crucial place in astrochemistry. It is why, SSHADE has been enriched with 3 new “Planetary sample” filters allowing you to search for data on samples collected by a given mission. You will find them in the filter block “By extraterrestrial object”.

The screenshot shows the SSHADE search interface. At the top, there is a search bar with the text "Spectrum" and a search icon. Below it, there is a "Spectra search" section with a search bar containing the text "Write your keywords here or leave it empty to get all the data..." and a "Search" button. The "By extraterrestrial object" filter block is expanded, showing several filter categories: "Object family", "Object name", "Meteorite", "Chondrite petrologic type", and "Achondrite petrologic type". The "Planetary sample" section is also expanded, showing three filter categories: "Solar system body name" (containing "Ryugu"), "Collected sample family", and "Mission name". A red arrow points to the "Solar system body name" field.

Two first sets of Ryugu spectra have been added on SSHADE recently.

You can find [Mid IR reflectance spectra](#) of Ryugu fragments (shown below) as well as [Raman spectra](#) obtained on fragments of individual particles from chambers A and C.

MIR Average reflectance spectra of eight Ryugu fragments (chambers A and C)



- MIR average reflectance spectra of Ryugu fragment A0064-FO019.
- MIR average reflectance spectra of Ryugu fragment A0064-FO021.
- MIR average reflectance spectra of Ryugu fragment A0064-FO024.
- MIR average reflectance spectra of Ryugu fragment A0064-FO022.
- MIR average reflectance spectra of Ryugu fragment A0064-FO023.
- MIR average reflectance spectra of Ryugu fragment C0046-FO015.
- MIR average reflectance spectra of Ryugu fragment C0002-FC024.
- MIR average reflectance spectra of Ryugu fragment C0002-FC019.

Mid-IR absorbance spectra of IOM extracted from fragments of individual particles will be also available soon, when the paper will be online.

Have fun with SSHADE data!

The SSHADE Team

All previous user newsletters are stored in the dedicated ['News' page](#) of the [SSHADE Wiki](#)

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