SSHADE Users Newsletter

New datasets recently added to SSHADE

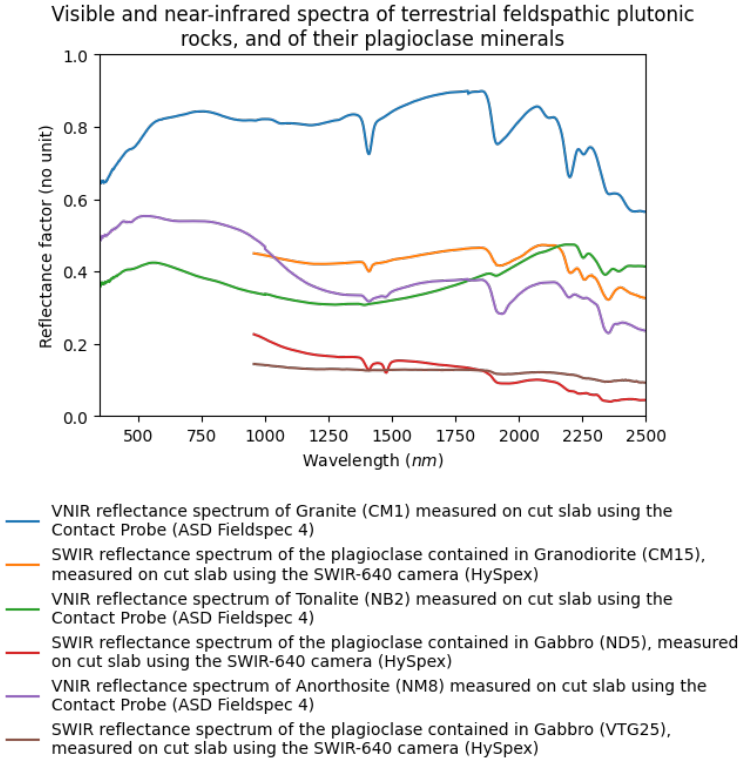
May 2026

Dear SSHADE users,

This month we highlight a selection of datasets recently imported in SSHADE, showcasing the diversity of experimental data now available on the database and how delving into these data can transport us on an exploratory journey across our Solar System.

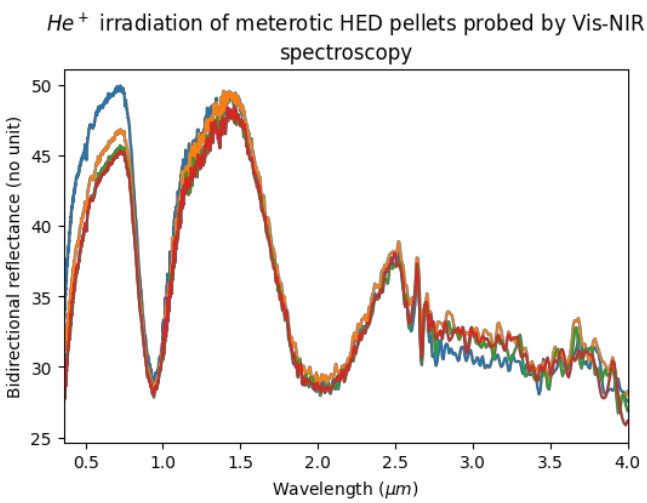
First stop on Mars

New reflectance spectra have been imported in the **Mirabelle database**. These datasets provide Visible Near-InfraRed (VNIR) average spectra of terrestrial plutonic rocks and of their plagioclase constituents, used as analogues of the surface of Mars.



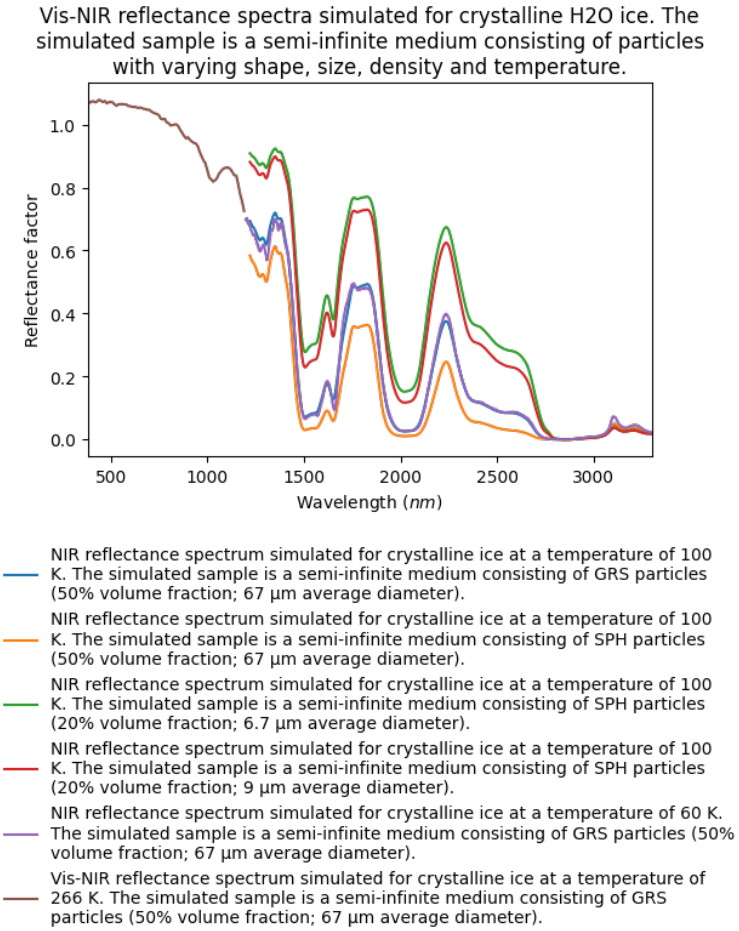
Heading for the main asteroid belt for a stopover at Vesta

Data on HED meteorites, considered as originating from Vesta, have recently been uploaded to DAISY. These measurements were performed on meteoritic HED pellets irradiated with helium ions and probed using Vis-NIR spectroscopy, simulating the effects of solar wind exposure on planetary surfaces.



Last stop on icy planetary surface

Now let's head to the outer Solar System to study icy surfaces using the latest data imported in BYPASS. These simulations represent a semi-infinite medium composed of particles with varying shape, size, density, and temperature, enabling advanced modeling of icy planetary surfaces, as shown in these simulated Vis-NIR reflectance spectra of crystalline water ice.



Have fun exploring SSHADE data!
The SSHADE team