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Data for an Article titled “Development of a micro-ice production apparatus and NIR spectral measurements of frosted minerals for future lunar ice exploration missions”

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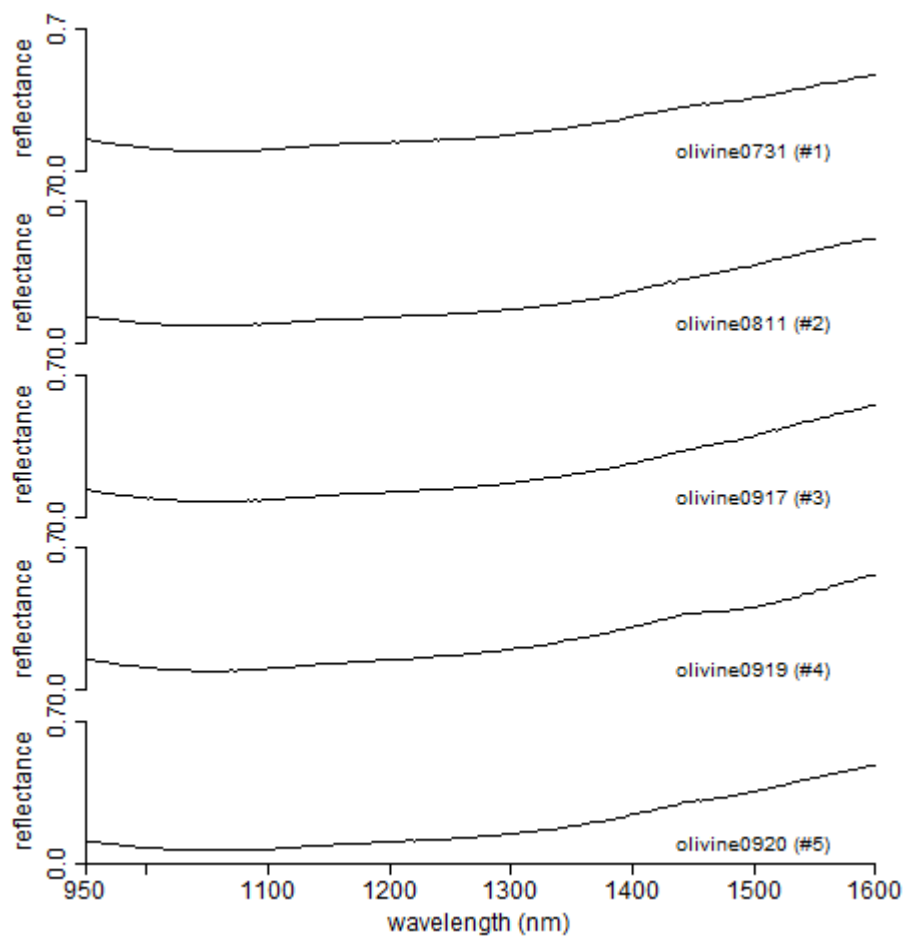
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In addition to this file, the files listed in Table 1 are the original data in the manuscript published in *Icarus* (DOI:10.1016/j.icarus.2020.114273).

Table 1. The table of measured mass and corresponding spectral reflectance data file name for all samples.

Spectral Data File Name(.csv)	Run Number	M _{mineral+ice} (g)	M _{mineral} (g)	M _{ice} (g)	Water Content (wt%)
olivine0731	#1	3.65	3.587	0.063	1.726
olivine0811	#2	0.466	0.461	0.005	1.073
olivine0917	#3	1.653	1.644	0.009	0.544
olivine0919	#4	0.161	0.158	0.003	1.863
olivine0920	#5	0.237	0.235	0.002	0.844
plagioclase0823	#6	0.604	0.601	0.003	0.497
plagioclase0901	#7	0.605	0.602	0.003	0.496
plagioclase0904	#8	0.157	0.155	0.002	1.274
plagioclase0905	#9	0.452	0.443	0.009	1.991
plagioclase0911	#10	0.635	0.625	0.01	1.575

Fig. 1 The plots of NIR spectra showing the contents of the attached CSV file.



CSV data list

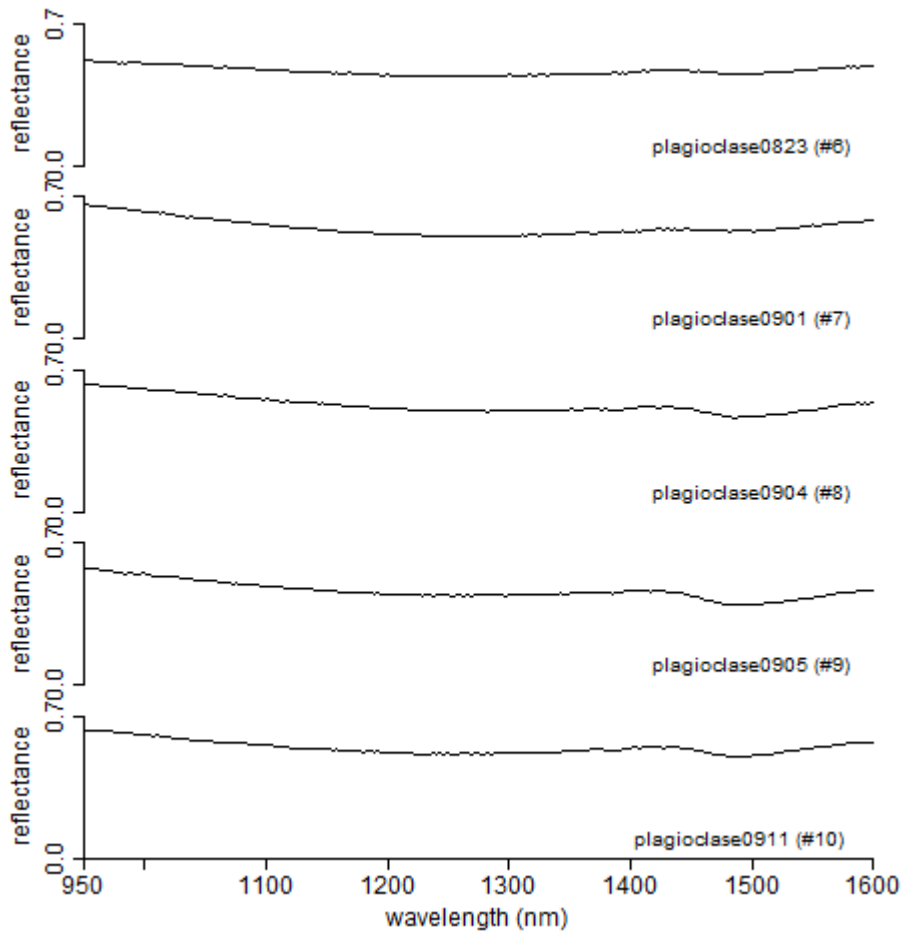
olivine0731.csv

olivine0811.csv

olivine0917.csv

olivine0919.csv

olivine0920.csv



CSV data list

plagioclase0823.csv

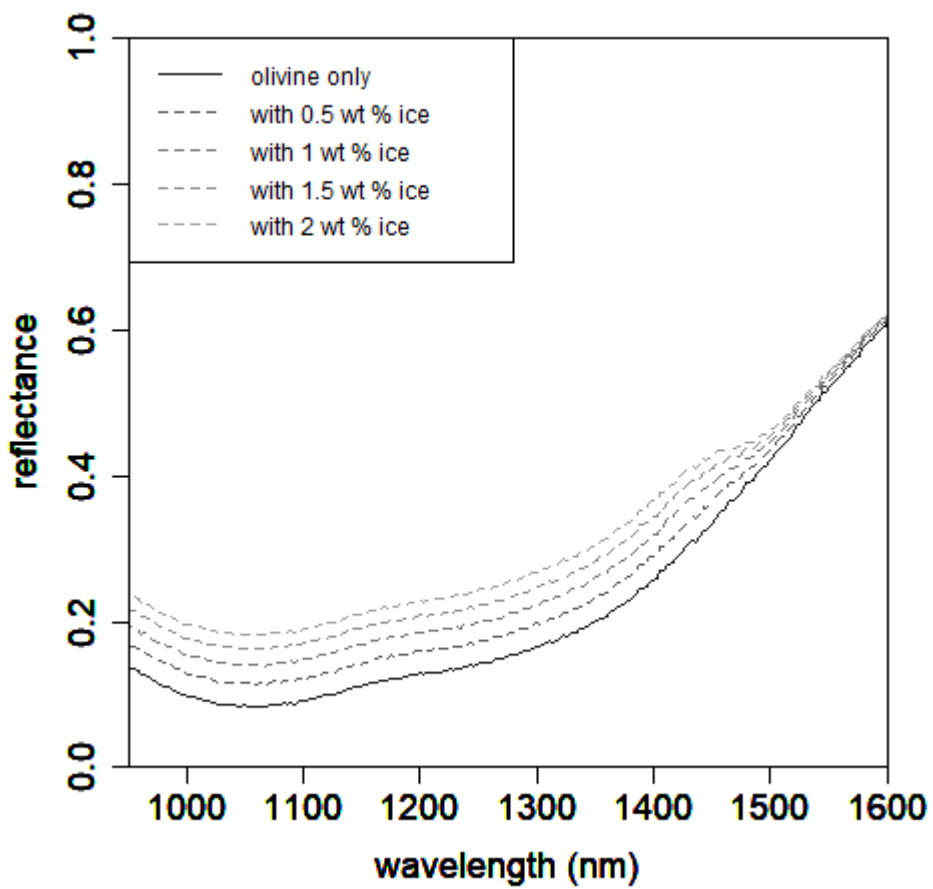
plagioclase0901.csv

plagioclase0904.csv

plagioclase0905.csv

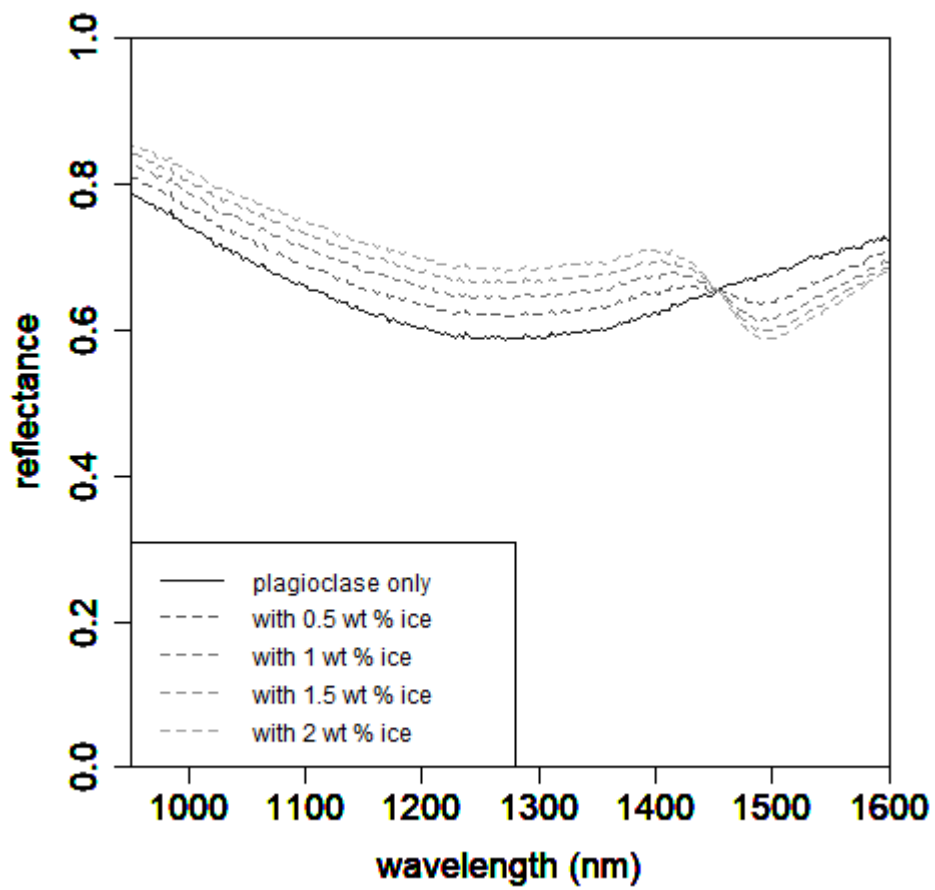
plagioclase0911.csv

Fig.2 The plots of Hapke's model spectra for mixtures which contains 0 wt % (=standard laboratory spectrum), 0.5 wt %, 1 wt %, 1.5 wt %, 2 wt % ice showing the contents of the attached CSV file.



CSV data list

- onlyolivine1112.csv
- hapke_olivine0.5.csv
- hapke_olivine1.0.csv
- hapke_olivine1.5.csv
- hapke_olivine2.0.csv



CSV data list

- onlyplagioclase1112.csv
- hapke_plagioclase0.5.csv
- hapke_plagioclase1.0.csv
- hapke_plagioclase1.5.csv
- hapke_plagioclase2.0.csv