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Compositional studies of Mare Moscoviense: New perspectives from Chandrayaan-1 VIS-NIR data

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Highlights

- Our spectral and elemental abundance estimation analysis suggest that the basin floor of the Moscoviense basin is composed of four basalt units.
- We re-classified the previously mapped Iltm unit from northern region as a separate basalt unit and named it as Ivltm based on its lower TiO₂ content compared to the unit Iltm.
- The unit Ivltm is compositionally intermediate between the units Im and Iltm and consistent with a high-Al basalt composition.
- Several new regions with OOS lithologies along the peak ring of the Moscoviense basin identified suggesting wider spread of OOS lithologies.

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