



A dehydrated space-weathered skin cloaking the hydrated interior of Ryugu

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Supplementary Table 1 Fe³⁺/ΣFe ratios in the space-weathered surface and the interior phyllosilicates estimated by various methods.

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Sample No.	Chamber	Targets	Fe ³⁺ /ΣFe ratios	Methods
A0104-02306901	A	Interior phyllosilicates	~0.85	Fe L _{2,3} ELNES
A0104-02306901	A	Smooth layer	~0.45	Fe L _{2,3} ELNES
C0105-030003701	C	Interior phyllosilicates	~0.95	Fe L _{2,3} ELNES
C0105-030003701	C	Frothy layer	~0.20	Fe L _{2,3} ELNES
A0058-C2001-02	A	Interior phyllosilicates	~0.60	Fe L _{2,3} XANES
A0058-C2001-02	A	Frothy layer	~0	Fe L _{2,3} XANES
A0058-C2001-03	A	Interior phyllosilicates	~0.70	Fe L _{2,3} ELNES
A0058-C2001-03	A	Frothy layer	~0.30	Fe L _{2,3} ELNES
A0058-C2001-08	A	Interior phyllosilicates	~0.40	Fe K XANES
A0058-C2001-08	A	Frothy layer	~0.15	Fe K XANES

ELNES: energy loss near edge structure. XANES: X-ray absorption near edge structure.