

Figure S1. View of the Primorsky Ridge from Lake Baikal.



Figure S2. (a) View of the Onguren intrusion from the Zunduk intrusion; (b) The outcrop of the Onguren intrusion ultramafic rocks.



Figure S3. The outcrop of the Ulan-Khan intrusion.



Figure S4. Large blocks of eluvium, the Moriany intrusion.
In the photo for scale there is Artemii Doroshkov, his height is 205 cm.

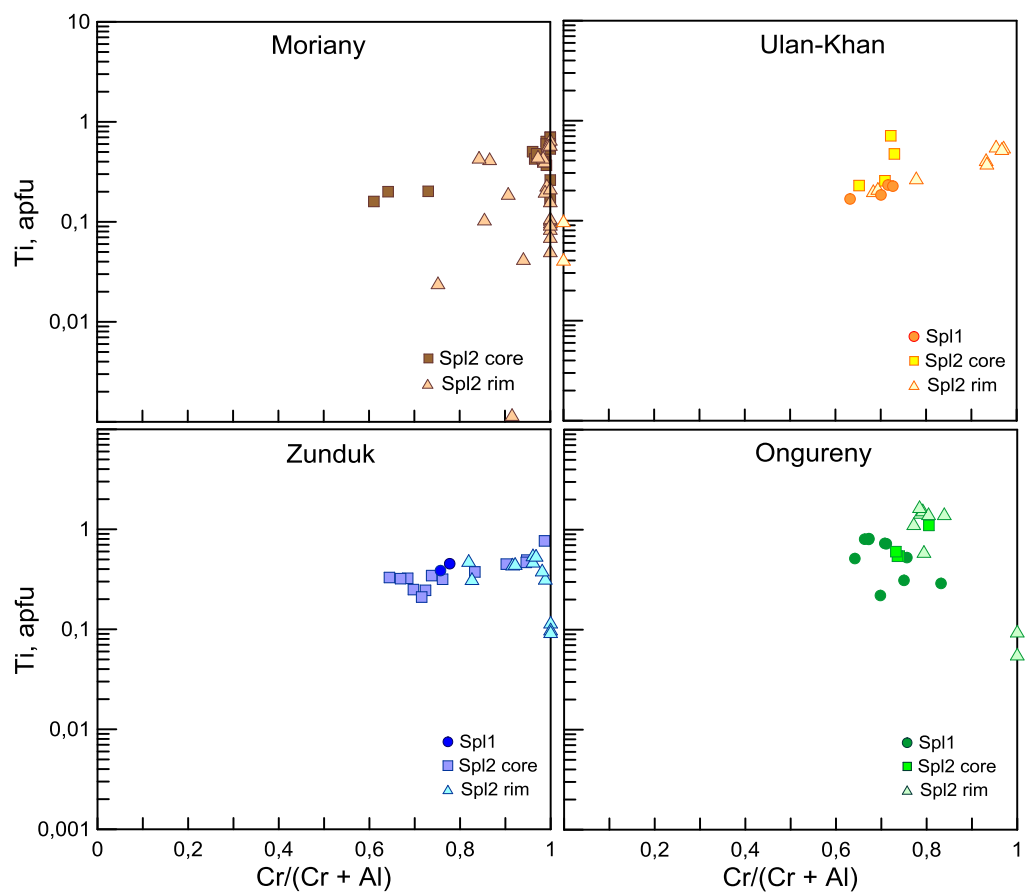


Figure S5. Cr/(Fe³⁺ + Cr + Al) vs. Ti (apfu on the basis of 32 oxygen anions) diagram. The diagrams are split to avoid overcrowding. Spl1: Type I Cr-spinel; Spl2: Type II Cr-spinel.

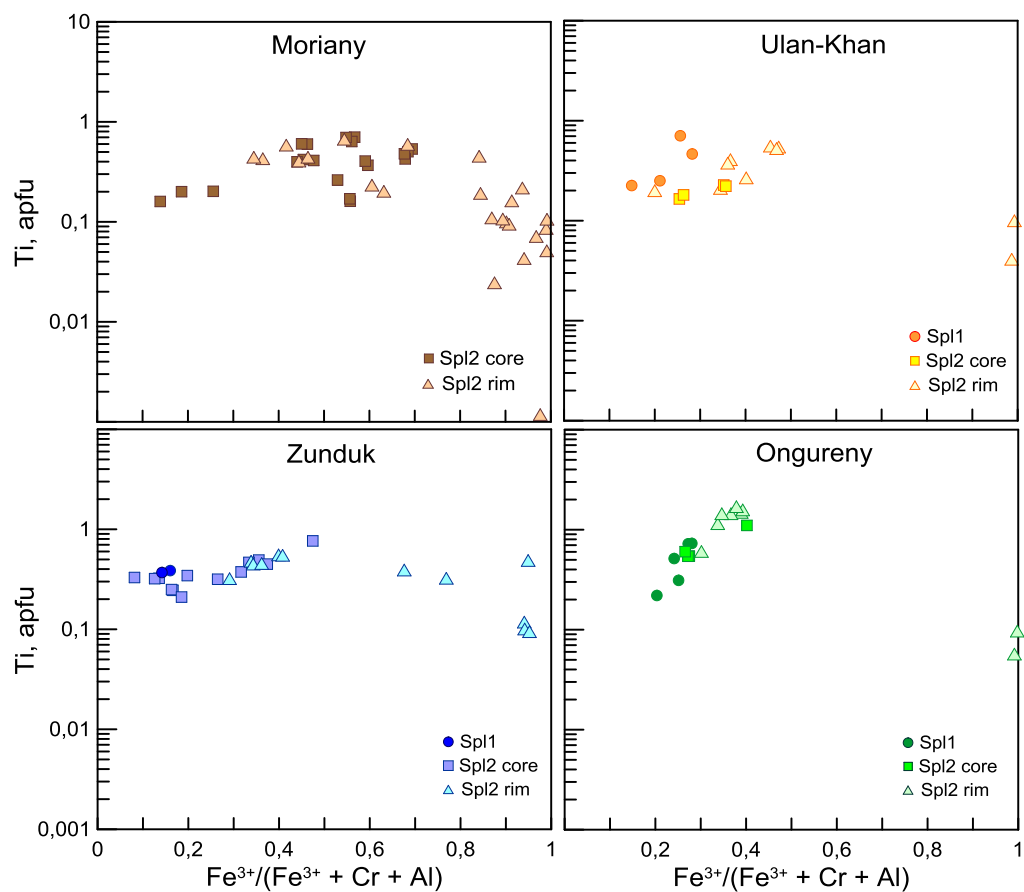


Figure S6. $\text{Fe}^{3+}/(\text{Fe}^{3+} + \text{Cr} + \text{Al})$ vs. Ti (apfu on the basis of 32 oxygen anions) diagram. The diagrams are split to avoid overcrowding. Spl1: Type I Cr-spinel; Spl2: Type II Cr-spinel.

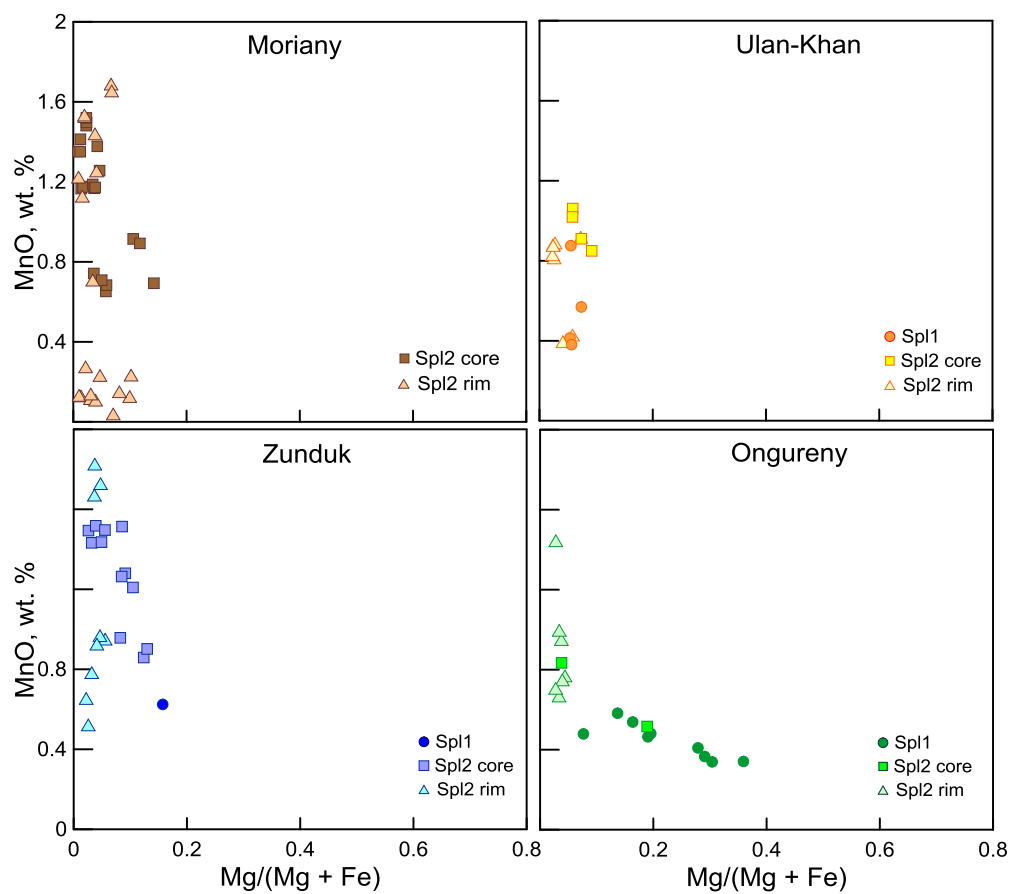


Figure S7. Mg/Mg+Fe²⁺ vs MnO (wt.%) diagram. The diagrams are split to avoid overcrowding. Spl1: Type I Cr-spinel; Spl2: Type II Cr-spinel.

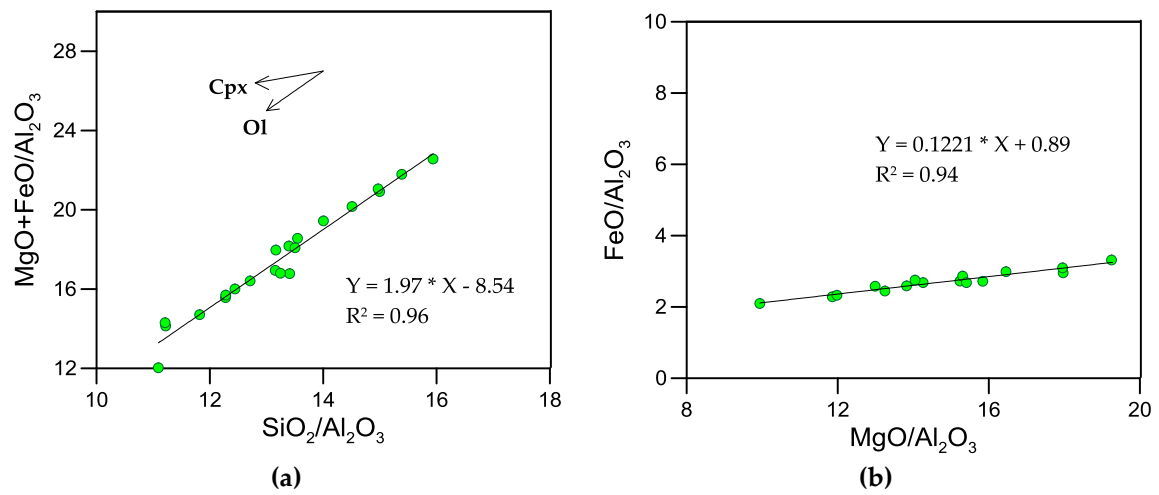


Figure S8. Molecular proportion ratio plot [62-64] of the Ongureny intrusion rocks. Vectors whose slopes are consistent with the fractionation of olivine (Ol) and clinopyroxene (Cpx) are shown in panel (a).