Table E1 modifications

Table E1 presents the correlation values among geochemical variables within each core zone. In our original submission, the headers for each sub-table were placed on the right-hand side and beneath the table to emphasize that the correlations refer only to relationships *within* the same zone. In the typeset version (not shown here), the placement of the zone labels above and below the variable names unintentionally suggested correlations *between* zones. This two-zone layout was initially adopted to save space, but we recognize that it may cause confusion. We therefore propose a revised version of Table E1 in which each table corresponds to a single zone. This format makes it unambiguous that all correlation coefficients represent relationships among variables *within the same zone*, not across zones. This proposed modification does not require any changes to the main text, as we refer to the content solely as Table E1 and never to its individual sub-tables.

**Original Table E1:**

**Appendix E: Correlation results**

**Table E1. Pearson correlation coefficients among µ-XRF variables (CLR–transformed) and both ASI (log[ASI]) and mineral content (log[minerals/100-minerals), presented for the core stratigraphic zones and upper 50 cm for TLM (a–b) and TAC (c–e; next page). Micro-XRF variables were averaged at 1 cm intervals to match the mineral content and ASI resolution.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(a)** |  |  |  |  |  |  |  |  |  |  |
|  | **Ti** | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** | **TLM (Zone 1 565–692 cm)** |
| **Ti** |  | 0.77\*\*\* | -0.40\*\*\* | -0.89\*\*\* | -0.38\*\*\* | -0.78\*\*\* | -0.42\*\*\* | 0.65\*\*\* | 0.75\*\*\* |
| **K** | 0.00 |  | -0.56\*\*\* | -0.91\*\*\* | -0.34\*\*\* | -0.65\*\*\* | -0.46\*\*\* | 0.54\*\*\* | 0.74\*\*\* |
| **Ca** | -0.33\*\*\* | 0.22\* |  | 0.47\*\*\* | -0.35\*\*\* | 0.14 | 0.55\*\*\* | -0.44\*\*\* | -0.48\*\*\* |
| **Mn** | -0.42\*\*\* | 0.34\*\*\* | 0.77\*\*\* |  | 0.35\*\*\* | 0.71\*\*\* | 0.43\*\*\* | -0.66\*\*\* | -0.83\*\*\* |
| **Fe** | -0.22\* | -0.62\*\*\* | 0.03 | -0.19\* |  | 0.69\*\*\* | -0.53\*\*\* | 0.15 | -0.06 |
| **S** | -0.06 | -0.64\*\*\* | -0.62\*\*\* | -0.77\*\*\* | 0.43\*\*\* |  | -0.13 | -0.41\*\*\* | -0.62\*\*\* |
| **Si** | -0.42\*\*\* | 0.24\*\* | 0.16 | 0.52\*\*\* | -0.51\*\*\* | -0.49\*\*\* |  | -0.60\*\*\* | -0.52\*\*\* |
| **ASI** | 0.21 | -0.05 | 0.04 | -0.30\* | 0.37\*\* | 0.21 | -0.62\*\*\* |  | 0.85\*\*\* |
| **Minerals** | 0.14 | -0.28\* | -0.02 | -0.49\*\*\* | 0.45\*\*\* | 0.45\*\*\* | -0.63\*\*\* | 0.65\*\*\* |  |
| **TLM (Zone 2 452–565 cm)** | | | | | | | | | |
| **(b)** |  |  |  |  |  |  |  |  |  |  |
|  | **Ti** | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** | **TLM (Zone 3 0–450 cm)** |
| **Ti** |  | 0.12\* | -0.65\*\*\* | -0.40\*\*\* | -0.15\*\* | -0.40\*\*\* | -0.52\*\*\* | 0.38\*\*\* | 0.47\*\*\* |
| **K** | 0.17 |  | -0.02 | -0.18\*\*\* | 0.13\*\* | -0.43\*\*\* | -0.75\*\*\* | 0.56\*\*\* | 0.43\*\*\* |
| **Ca** | -0.41\*\* | 0.70\*\*\* |  | 0.32\*\*\* | -0.13\*\* | 0.05 | 0.28\*\*\* | -0.32\*\*\* | -0.50\*\*\* |
| **Mn** | -0.58\*\*\* | -0.75\*\*\* | -0.16 |  | 0.07 | -0.31\*\*\* | 0.17\*\*\* | -0.13\* | -0.33\*\*\* |
| **Fe** | 0.19 | -0.60\*\*\* | -0.70\*\*\* | 0.37\*\* |  | -0.18\*\*\* | -0.25\*\*\* | 0.18\*\* | 0.24\*\*\* |
| **S** | -0.51\*\*\* | -0.49\*\*\* | -0.15 | 0.41\*\* | -0.00 |  | 0.39\*\*\* | -0.30\*\*\* | -0.17\* |
| **Si** | -0.38\*\* | -0.86\*\*\* | -0.56\*\*\* | 0.66\*\*\* | 0.32\* | 0.38\*\* |  | -0.65\*\*\* | -0.58\*\*\* |
| **ASI** | 0.55\*\* | 0.67\*\*\* | 0.21 | -0.77\*\*\* | -0.34 | -0.34 | -0.62\*\* |  | 0.70\*\*\* |
| **Minerals** | 0.80\*\*\* | 0.17 | -0.42 | -0.58\*\* | 0.11 | -0.22 | -0.24 | 0.65\*\* |  |
| **TLM (Upper 0–50 cm)** | | | | | | | | | |

**\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(c)** |  |  |  |  |  |  |  |  |  |  |
|  | **Ti** | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** | **TAC (Zone 1 274–316 cm)** |
| **Ti** |  | 0.82\*\*\* | -0.93\*\*\* | -0.94\*\*\* | -0.87\*\*\* | -0.46\*\* | 0.64\*\*\* | 0.49\*\*\* | 0.66\*\*\* |
| **K** | -0.42\*\*\* |  | -0.85\*\*\* | -0.83\*\*\* | -0.86\*\*\* | -0.64\*\*\* | 0.71\*\*\* | 0.59\*\*\* | 0.67\*\*\* |
| **Ca** | -0.90\*\*\* | 0.44\*\*\* |  | 0.97\*\*\* | 0.91\*\*\* | 0.39\* | -0.81\*\*\* | -0.57\*\*\* | -0.72\*\*\* |
| **Mn** | -0.88\*\*\* | 0.50\*\*\* | 0.96\*\*\* |  | 0.89\*\*\* | 0.37\* | -0.78\*\*\* | -0.58\*\*\* | -0.72\*\*\* |
| **Fe** | -0.53\*\*\* | 0.09 | 0.52\*\*\* | 0.48\*\*\* |  | 0.42\*\* | -0.79\*\*\* | -0.52\*\*\* | -0.61\*\*\* |
| **S** | -0.12 | -0.27\*\* | -0.12 | -0.18 | -0.31\*\*\* |  | -0.57\*\*\* | -0.42\*\* | -0.48\*\* |
| **Si** | -0.49\*\*\* | -0.02 | 0.37\*\*\* | 0.35\*\*\* | 0.32\*\*\* | -0.31\*\*\* |  | 0.61\*\*\* | 0.69\*\*\* |
| **ASI** | 0.06 | 0.02 | -0.05 | -0.02 | 0.04 | -0.04 | -0.10 |  | 0.88\*\*\* |
| **Minerals** | 0.40\*\*\* | -0.09 | -0.48\*\*\* | -0.44\*\*\* | -0.10 | 0.04 | -0.27\*\* | 0.57\*\*\* |  |
| **TAC (Zone 2 159–274 cm)** | | | | | | | | | |
| **D** |  |  |  |  |  |  |  |  |  |  |
|  | **Ti** | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** | **TAC (Zone 3 135–159 cm)** |
| **Ti** |  | 0.95\*\*\* | -0.96\*\*\* | -0.92\*\*\* | -0.79\*\*\* | -0.93\*\*\* | 0.95\*\*\* | 0.29 | 0.61\*\* |
| **K** | 0.87\*\*\* |  | -0.92\*\*\* | -0.91\*\*\* | -0.70\*\*\* | -0.98\*\*\* | 0.96\*\*\* | 0.42\* | 0.69\*\*\* |
| **Ca** | -0.89\*\*\* | -0.78\*\*\* |  | 0.94\*\*\* | 0.77\*\*\* | 0.87\*\*\* | -0.93\*\*\* | -0.26 | -0.53\*\* |
| **Mn** | -0.79\*\*\* | -0.87\*\*\* | 0.77\*\*\* |  | 0.73\*\*\* | 0.84\*\*\* | -0.93\*\*\* | -0.38 | -0.61\*\* |
| **Fe** | 0.19\* | 0.25\*\* | -0.18\* | -0.14 |  | 0.62\*\* | -0.76\*\*\* | -0.14 | -0.47\* |
| **S** | -0.61\*\*\* | -0.74\*\*\* | 0.45\*\*\* | 0.47\*\*\* | -0.67\*\*\* |  | -0.95\*\*\* | -0.43\* | -0.70\*\*\* |
| **Si** | 0.59\*\*\* | 0.75\*\*\* | -0.60\*\*\* | -0.74\*\*\* | 0.20\* | -0.69\*\*\* |  | 0.41\* | 0.67\*\*\* |
| **ASI** | 0.68\*\*\* | 0.75\*\*\* | -0.65\*\*\* | -0.65\*\*\* | 0.36\*\*\* | -0.64\*\*\* | 0.60\*\*\* |  | 0.83\*\*\* |
| **Minerals** | 0.83\*\*\* | 0.78\*\*\* | -0.76\*\*\* | -0.63\*\*\* | 0.17 | -0.58\*\*\* | 0.53\*\*\* | 0.78\*\*\* |  |
| **TAC (Zone 4 0–135 cm)** | | | | | | | | | |
| **E** |  |  |  |  |  |  |  |  |  |  |
|  | **Ti** | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** | **TAC (upper 0–50cm)** |
| **Ti** |  | 0.76\*\*\* | -0.87\*\*\* | -0.49\*\*\* | 0.46\*\*\* | -0.75\*\*\* | 0.63\*\*\* | 0.74\*\*\* | 0.81\*\*\* |
| **K** |  |  | -0.52\*\*\* | -0.82\*\*\* | 0.37\*\* | -0.81\*\*\* | 0.85\*\*\* | 0.88\*\*\* | 0.69\*\*\* |
| **Ca** |  |  |  | 0.30\* | -0.41\*\* | 0.50\*\*\* | -0.43\*\* | -0.54\*\*\* | -0.72\*\*\* |
| **Mn** |  |  |  |  | -0.05 | 0.48\*\*\* | -0.87\*\*\* | -0.71\*\*\* | -0.40\*\* |
| **Fe** |  |  |  |  |  | -0.77\*\*\* | 0.27 | 0.47\*\* | 0.49\*\*\* |
| **S** |  |  |  |  |  |  | -0.73\*\*\* | -0.82\*\*\* | -0.73\*\*\* |
| **Si** |  |  |  |  |  |  |  | 0.80\*\*\* | 0.58\*\*\* |
| **ASI** |  |  |  |  |  |  |  |  | 0.83\*\*\* |
| **Minerals** |  |  |  |  |  |  |  |  |  |

**\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05**

**Proposed modified Table E:**

**Appendix E: Correlation results**

**Table E1. Pearson correlation coefficients among µ-XRF variables (CLR–transformed) and both ASI (log[ASI]) and mineral content (log[minerals/100-minerals), presented for the core stratigraphic zones and upper 50 cm for TLM (a–d) and TAC (e–i). Micro-XRF variables were averaged at 1 cm intervals to match the mineral content and ASI resolution.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(a)** | **TLM Zone 1 (565–692 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.77\*\*\* | -0.40\*\*\* | -0.89\*\*\* | -0.38\*\*\* | -0.78\*\*\* | -0.42\*\*\* | 0.65\*\*\* | 0.75\*\*\* |
| **K** |  | -0.56\*\*\* | -0.91\*\*\* | -0.34\*\*\* | -0.65\*\*\* | -0.46\*\*\* | 0.54\*\*\* | 0.74\*\*\* |
| **Ca** |  |  | 0.47\*\*\* | -0.35\*\*\* | 0.14 | 0.55\*\*\* | -0.44\*\*\* | -0.48\*\*\* |
| **Mn** |  |  |  | 0.35\*\*\* | 0.71\*\*\* | 0.43\*\*\* | -0.66\*\*\* | -0.83\*\*\* |
| **Fe** |  |  |  |  | 0.69\*\*\* | -0.53\*\*\* | 0.15 | -0.06 |
| **S** |  |  |  |  |  | -0.13 | -0.41\*\*\* | -0.62\*\*\* |
| **Si** |  |  |  |  |  |  | -0.60\*\*\* | -0.52\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.85\*\*\* |
|  | | | | | | | | |
| **(b)** | **TLM Zone 2 (452–565 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0 | -0.33\*\*\* | -0.42\*\*\* | -0.22\* | -0.06 | -0.42\*\*\* | 0.21 | 0.14 |
| **K** |  | 0.22\* | 0.34\*\*\* | -0.62\*\*\* | -0.64\*\*\* | 0.24\*\* | -0.05 | -0.28\* |
| **Ca** |  |  | 0.77\*\*\* | 0.03 | -0.62\*\*\* | 0.16 | 0.04 | -0.02 |
| **Mn** |  |  |  | -0.19\* | -0.77\*\*\* | 0.52\*\*\* | -0.30\* | -0.49\*\*\* |
| **Fe** |  |  |  |  | 0.43\*\*\* | -0.51\*\*\* | 0.37\*\* | 0.45\*\*\* |
| **S** |  |  |  |  |  | -0.49\*\*\* | 0.21 | 0.45\*\*\* |
| **Si** |  |  |  |  |  |  | -0.62\*\*\* | -0.63\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.65\*\*\* |
|  | | | | | | | | |
| **(c)** | **TLM Zone 3 (0–450 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.12\* | -0.65\*\*\* | -0.40\*\*\* | -0.15\*\* | -0.40\*\*\* | -0.52\*\*\* | 0.38\*\*\* | 0.47\*\*\* |
| **K** |  | -0.02 | -0.18\*\*\* | 0.13\*\* | -0.43\*\*\* | -0.75\*\*\* | 0.56\*\*\* | 0.43\*\*\* |
| **Ca** |  |  | 0.32\*\*\* | -0.13\*\* | 0.05 | 0.28\*\*\* | -0.32\*\*\* | -0.50\*\*\* |
| **Mn** |  |  |  | 0.07 | -0.31\*\*\* | 0.17\*\*\* | -0.13\* | -0.33\*\*\* |
| **Fe** |  |  |  |  | -0.18\*\*\* | -0.25\*\*\* | 0.18\*\* | 0.24\*\*\* |
| **S** |  |  |  |  |  | 0.39\*\*\* | -0.30\*\*\* | -0.17\* |
| **Si** |  |  |  |  |  |  | -0.65\*\*\* | -0.58\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.70\*\*\* |
|  | | | | | | | | |
| **(d)** | **TLM Upper (0–50 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.17 | -0.41\*\* | -0.58\*\*\* | 0.19 | -0.51\*\*\* | -0.38\*\* | 0.55\*\* | 0.80\*\*\* |
| **K** |  | 0.70\*\*\* | -0.75\*\*\* | -0.60\*\*\* | -0.49\*\*\* | -0.86\*\*\* | 0.67\*\*\* | 0.17 |
| **Ca** |  |  | -0.16 | -0.70\*\*\* | -0.15 | -0.56\*\*\* | 0.21 | -0.42 |
| **Mn** |  |  |  | 0.37\*\* | 0.41\*\* | 0.66\*\*\* | -0.77\*\*\* | -0.58\*\* |
| **Fe** |  |  |  |  | 0 | 0.32\* | -0.34 | 0.11 |
| **S** |  |  |  |  |  | 0.38\*\* | -0.34 | -0.22 |
| **Si** |  |  |  |  |  |  | -0.62\*\* | -0.24 |
| **ASI** |  |  |  |  |  |  |  | 0.65\*\* |

**\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **(e)** | **TAC Zone 1 (274–316 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.82\*\*\* | -0.93\*\*\* | -0.94\*\*\* | -0.87\*\*\* | -0.46\*\* | 0.64\*\*\* | 0.49\*\*\* | 0.66\*\*\* |
| **K** |  | -0.85\*\*\* | -0.83\*\*\* | -0.86\*\*\* | -0.64\*\*\* | 0.71\*\*\* | 0.59\*\*\* | 0.67\*\*\* |
| **Ca** |  |  | 0.97\*\*\* | 0.91\*\*\* | 0.39\* | -0.81\*\*\* | -0.57\*\*\* | -0.72\*\*\* |
| **Mn** |  |  |  | 0.89\*\*\* | 0.37\* | -0.78\*\*\* | -0.58\*\*\* | -0.72\*\*\* |
| **Fe** |  |  |  |  | 0.42\*\* | -0.79\*\*\* | -0.52\*\*\* | -0.61\*\*\* |
| **S** |  |  |  |  |  | -0.57\*\*\* | -0.42\*\* | -0.48\*\* |
| **Si** |  |  |  |  |  |  | 0.61\*\*\* | 0.69\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.88\*\*\* |
|  | | | | | | | | |
| **(f)** | **TAC Zone 2 (159–274 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | -0.42\*\*\* | -0.90\*\*\* | -0.88\*\*\* | -0.53\*\*\* | -0.12 | -0.49\*\*\* | 0.06 | 0.40\*\*\* |
| **K** |  | 0.44\*\*\* | 0.50\*\*\* | 0.09 | -0.27\*\* | -0.02 | 0.02 | -0.09 |
| **Ca** |  |  | 0.96\*\*\* | 0.52\*\*\* | -0.12 | 0.37\*\*\* | -0.05 | -0.48\*\*\* |
| **Mn** |  |  |  | 0.48\*\*\* | -0.18 | 0.35\*\*\* | -0.02 | -0.44\*\*\* |
| **Fe** |  |  |  |  | -0.31\*\*\* | 0.32\*\*\* | 0.04 | -0.1 |
| **S** |  |  |  |  |  | -0.31\*\*\* | -0.04 | 0.04 |
| **Si** |  |  |  |  |  |  | -0.1 | -0.27\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.57\*\*\* |
|  | | | | | | | | |
| **(g)** | **TAC Zone 3 (135–159 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.95\*\*\* | -0.96\*\*\* | -0.92\*\*\* | -0.79\*\*\* | -0.93\*\*\* | 0.95\*\*\* | 0.29 | 0.61\*\* |
| **K** |  | -0.92\*\*\* | -0.91\*\*\* | -0.70\*\*\* | -0.98\*\*\* | 0.96\*\*\* | 0.42\* | 0.69\*\*\* |
| **Ca** |  |  | 0.94\*\*\* | 0.77\*\*\* | 0.87\*\*\* | -0.93\*\*\* | -0.26 | -0.53\*\* |
| **Mn** |  |  |  | 0.73\*\*\* | 0.84\*\*\* | -0.93\*\*\* | -0.38 | -0.61\*\* |
| **Fe** |  |  |  |  | 0.62\*\* | -0.76\*\*\* | -0.14 | -0.47\* |
| **S** |  |  |  |  |  | -0.95\*\*\* | -0.43\* | -0.70\*\*\* |
| **Si** |  |  |  |  |  |  | 0.41\* | 0.67\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.83\*\*\* |
|  | | | | | | | | |
| **(h)** | **TAC Zone 4 (0–135 cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.87\*\*\* | -0.89\*\*\* | -0.79\*\*\* | 0.19\* | -0.61\*\*\* | 0.59\*\*\* | 0.68\*\*\* | 0.83\*\*\* |
| **K** |  | -0.78\*\*\* | -0.87\*\*\* | 0.25\*\* | -0.74\*\*\* | 0.75\*\*\* | 0.75\*\*\* | 0.78\*\*\* |
| **Ca** |  |  | 0.77\*\*\* | -0.18\* | 0.45\*\*\* | -0.60\*\*\* | -0.65\*\*\* | -0.76\*\*\* |
| **Mn** |  |  |  | -0.14 | 0.47\*\*\* | -0.74\*\*\* | -0.65\*\*\* | -0.63\*\*\* |
| **Fe** |  |  |  |  | -0.67\*\*\* | 0.20\* | 0.36\*\*\* | 0.17 |
| **S** |  |  |  |  |  | -0.69\*\*\* | -0.64\*\*\* | -0.58\*\*\* |
| **Si** |  |  |  |  |  |  | 0.60\*\*\* | 0.53\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.78\*\*\* |
|  | | | | | | | | |
| **(i)** | **TAC (upper 0–50cm)** | | | | | | | |
|  | **K** | **Ca** | **Mn** | **Fe** | **S** | **Si** | **ASI** | **Min** |
| **Ti** | 0.76\*\*\* | -0.87\*\*\* | -0.49\*\*\* | 0.46\*\*\* | -0.75\*\*\* | 0.63\*\*\* | 0.74\*\*\* | 0.81\*\*\* |
| **K** |  | -0.52\*\*\* | -0.82\*\*\* | 0.37\*\* | -0.81\*\*\* | 0.85\*\*\* | 0.88\*\*\* | 0.69\*\*\* |
| **Ca** |  |  | 0.30\* | -0.41\*\* | 0.50\*\*\* | -0.43\*\* | -0.54\*\*\* | -0.72\*\*\* |
| **Mn** |  |  |  | -0.05 | 0.48\*\*\* | -0.87\*\*\* | -0.71\*\*\* | -0.40\*\* |
| **Fe** |  |  |  |  | -0.77\*\*\* | 0.27 | 0.47\*\* | 0.49\*\*\* |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S** |  |  |  |  |  | -0.73\*\*\* | -0.82\*\*\* | -0.73\*\*\* |
| **Si** |  |  |  |  |  |  | 0.80\*\*\* | 0.58\*\*\* |
| **ASI** |  |  |  |  |  |  |  | 0.83\*\*\* |

**\*\*\* p < 0.001; \*\* p < 0.01; \* p < 0.05**