**Electronic supplement 6:**

**Results of earlier isotope datings carried out on rocks and mineralizations of the Štiavnica Stratovolcano edifice**

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| Event | Stage | Source, method (number of individual analyses) | Ma |
| Garnet-bearing andesites  (preceding the pre-caldera stage andesites) |  | Chernyshev et al. (2013), K/Ar (1) | 15.0 ± .4 |
| Pre-caldera stage  andesites | 1 | Chernyshev et al. (2013), K/Ar (13) | 14.8 ± .3 – 12.1 ±0.4 |
| Diorite intrusion | 1 | Kohút and Danišík (2017), U/Pb zircon (1)  Kohút and Danišík (2017), U-Th/He zircon (1)  Kohút and Danišík (2017), U-Th/He apatite (1)  Chernyshev et al. (2013), Rb/Sr (1) | 15.21 ±0.19  14.70 ±0.94  14.45 ±0.70  13.3 ±0.2 |
| Granodiorite pluton | 2a | Kantor et al. (1988), K/Ar biotite (1)  Chernyshev et al. (2013), Rb/Sr (2)  Kohút and Danišík (2017) , U/Pb zircon (1)  Kohút and Danišík (2017), U-Th/He zircon (1)  Kohút and Danišík (2017), U-Th/He apatite (1) | 13.9 ±0.1  13.4 ±0.2 – 13.3 ±0.6  12.92 ±0.27  12.65 ±0.61  12.26 ±0.77 |
| Quartz-diorite porphyry sills | 2b | Repčok in Chernyshev et al. (2013),  FT amphibole (1), FT biotite (1)  Chernyshev et al. (1995), K/Ar (1) | 13.6 ±0.8, 13.4 ±0.6  12.5 ±0.6 |
| Granodiorite porphyry stocks/dike clusters | 2c | Chernyshev et al. (1995), K/Ar (1) | 11.4 ±1.2 |
| Caldera subsidence  and filling | 3 | Chernyshev et al. (2013), K/Ar (4) and Rb/Sr (3) | 13.1 ±0.3 – 12.4 ±0.1 |
| Post-caldera stage andesites | 4 | Chernyshev et al. (2013), K/Ar (8) and Rb/Sr (3) | 13.0 ±0.3 – 12.0 ±0.3 |
| Activity of rhyolites | 5 | Chernyshev et al. (2013), K/Ar (6) and Rb/Sr (2)  Lexa and Pécskay (2010) – Nová Baňa area (4 )  Lexa and Pécskay (2010) – Kremnica area (15 ) | 12.2 ±0.3 – 11.4 ±0.3  12.31 ±0.44 – 12.03 ±0.38  12.29 ±0.42 – 11.52 ±0.36 |
| High-Al basalts (post-  dating activity of rhyolites) |  | Balogh et al. (1998), K/Ar (6) | 11.3 ±0.8 – 8.2 ±0.5 |
| Šobov high-sulfidation epithermal system |  | Kraus et al. (1999), K/Ar illite 2M1 (1)  Kantor et al. (1985), K/Ar illite 2M1 (2) | 12.4 ±0.1  12.06 ±0.16, 11.9 ±0.37 |
| Stockwork/disseminated base metal mineralization. |  | Chernyshev et al. (2000), K/Ar (1) | 11.5 ±0.3 |
| Hodruša base/precious metal epithermal system |  | Kraus et al. (1999), K/Ar illite 2M1>>1M (1)  Chernyshev et al. (2000), Rb/Sr illite 2M1>>1M (2) | 11.9 ±0.3  12.8 ±0.9 |
| Resurgent horst related epithermal veins  (and contemporaneous epithermal veins in the Nová Baňa-Rudno-Pukanec and Kremnica areas) |  | Kantor et al. (1985, 1988), K/Ar adularia, adularia + sericite, adularized rocks:   * Banská Štiavnica area (9) * Nová Baňa-Rudno-Pukanec area (11)   Chernyshev et al. (1995), K/Ar (4)  – isochrone age  Lexa and Pécskay (2010):  – K/Ar adularia Nová Baňa area (7)  – K/Ar adularia Kremnica area (8)  Kraus et al., (1999), K/Ar illite 1M>>2M1 (1)  Vlasáč et al. (2024):  – K/Ar adularia Rudno nad Hronom (1)  – K/Ar illite/smectite Rudno nad Hronom (6) | 12.11 ±0.27 – 10.90 ±0.20  12.14 ±0.20 – 10.69 ±0.38  12.1 ±0.2  12.12 ±0.37 – 11.79 ±0.37  12.09 ±0.37 – 11.58 ±0.37  11.4 ±0.2 Ma  12.31 ±0.47 Ma  13.11 ±0.71 – 12.24 ±0.90 |

Time intervals provided by Chernyshev et al. (2013) include also data published already by Chernyshev et al. (1995, 2000).

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