

**Table S1.** The calculated results of the basic granulites in the Muzhaerte by the two-pyroxene thermobarometers [1-3].

| Thermobarometers | T <sub>max</sub> (°C) | T <sub>min</sub> (°C) | T <sub>ave</sub> (°C) |
|------------------|-----------------------|-----------------------|-----------------------|
| Wood version     | 811                   | 762                   | 789                   |
| Well version     | 860                   | 785                   | 829                   |
| Brey version     | 632                   | 533                   | 590                   |

**Table S2.** The calculated results of the basic granulites in the Muzhaerte by the Al-in-hornblende barometers [4-6].

| Barometers          | P <sub>max</sub> (kbar) | P <sub>min</sub> (kbar) | P <sub>ave</sub> (kbar) |
|---------------------|-------------------------|-------------------------|-------------------------|
| Anderson version    | 4.1                     | 3.9                     | 4.0                     |
| Hammarstrom version | 5.1                     | 4.9                     | 5.0                     |
| Schmidt version     | 5.5                     | 5.3                     | 5.4                     |

## References

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