Table 1. Thickness, observed and corrected P-wave velocity and estimated compositions of the crust of the Wendeng-Alashan transect (Line 41) in the North China Craton.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Sediment** | | **Upper**  **Crust** | | **Middle**  **Crust** | | **Upper**  **Lower Crust** | | **Lowermost**  **Crust** | | **Lower Crust** | | **Total Crust** | | **Total Crust**  (without sediment) | |
|  |  | mean | σ | mean | σ | mean | σ | mean | σ | mean | σ | mean | σ | mean | σ | mean | σ |
| **Thickness**  (km) | ENCC | 2.68 | 1.57 | 9.4 | 1.42 | 12.8 | 1.11 | 5.2 | 2.49 | 1.7 | 0.53 | 6.9 | 2.52 | 31.8 | 1.79 | 29.1 | 3.24 |
| CNCC | 1.50 | 0.37 | 12.3 | 0.67 | 15.4 | 0.42 | 8.3 | 1.48 | 1.5 | 0.50 | 9.8 | 1.44 | 39.0 | 2.08 | 37.5 | 2.12 |
| WNCC | 3.06 | 1.03 | 13.5 | 0.92 | 16.7 | 1.82 | 9.0 | 1.51 | 2.1 | 0.83 | 11.1 | 1.13 | 44.3 | 1.57 | 41.3 | 1.97 |
| Line 41 | 2.73 | 1.35 | 11.4 | 2.29 | 14.6 | 2.33 | 7.1 | 2.76 | 1.8 | 0.69 | 8.9 | 2.81 | 37.6 | 6.24 | 34.9 | 6.44 |
| NCC\* |  |  | 13.6 |  | 10.1 |  | 9.0 |  | 3.0 |  | 12.0 |  | 35.6 |  |  |  |
| Observed  ***V*p**  (km/s) | ENCC | 3.71 | 0.25 | 6.04 | 0.02 | 6.33 | 0.03 | 6.63 | 0.01 | 6.87 | 0.01 | 6.69 | 0.02 | 6.10 | 0.17 | 6.32 | 0.01 |
| CNCC | 4.66 | 0.34 | 6.12 | 0.02 | 6.27 | 0.04 | 6.63 | 0.02 | 6.86 | 0.02 | 6.67 | 0.04 | 6.26 | 0.19 | 6.32 | 0.01 |
| WNCC | 4.20 | 0.16 | 6.14 | 0.01 | 6.40 | 0.03 | 6.67 | 0.01 | 6.84 | 0.01 | 6.70 | 0.02 | 6.24 | 0.14 | 6.39 | 0.01 |
| Line 41 | 3.98 | 0.23 | 6.10 | 0.02 | 6.36 | 0.03 | 6.65 | 0.01 | 6.86 | 0.01 | 6.69 | 0.02 | 6.19 | 0.16 | 6.35 | 0.04 |
| NCC\* |  |  | 5.92 |  | 6.27 |  | 6.57 |  | 6.92 |  | 6.65 |  | 6.26 |  |  |  |
| Corrected  ***V*p**#  (km/s) | ENCC | 3.83 | 0.25 | 6.18 | 0.02 | 6.48 | 0.03 | 6.78 | 0.01 | 7.02 | 0.01 | 6.84 | 0.02 | 6.25 | 0.17 | 6.47 | 0.01 |
| CNCC | 4.79 | 0.35 | 6.26 | 0.02 | 6.42 | 0.04 | 6.78 | 0.02 | 7.01 | 0.02 | 6.81 | 0.04 | 6.40 | 0.20 | 6.47 | 0.01 |
| WNCC | 4.33 | 0.16 | 6.27 | 0.01 | 6.56 | 0.02 | 6.82 | 0.01 | 6.99 | 0.01 | 6.85 | 0.02 | 6.39 | 0.14 | 6.54 | 0.01 |
| Line 41 | 4.11 | 0.23 | 6.23 | 0.02 | 6.51 | 0.03 | 6.80 | 0.01 | 7.00 | 0.01 | 6.84 | 0.02 | 6.33 | 0.16 | 6.50 | 0.04 |
| NCC\* |  |  | 6.05 |  | 6.4 |  | 6.69 |  | 7.04 |  | 6.78 |  | 6.39 |  |  |  |
| **SiO2**  (wt%) | ENCC | 65.10 |  | 65.10 |  | 63.91 | 0.76 | 56.14 | 0.32 | 49.79 | 0.26 | 54.60 | 0.59 | 62.34 | 0.26 | 62.09 | 0.23 |
| CNCC | 65.10 |  | 65.10 |  | 65.53 | 1.04 | 56.13 | 0.64 | 50.13 | 0.52 | 55.21 | 1.15 | 62.79 | 0.35 | 62.69 | 0.32 |
| WNCC | 65.10 |  | 65.10 |  | 61.93 | 0.66 | 55.10 | 0.31 | 50.58 | 0.16 | 54.26 | 0.45 | 61.19 | 0.23 | 60.90 | 0.22 |
| Line 41 | 65.10 |  | 65.10 |  | 63.14 | 0.75 | 55.59 | 0.35 | 50.18 | 0.26 | 54.49 | 0.61 | 61.83 | 0.25 | 61.57 | 0.24 |
| NCC\* | 65.10 |  | 65.10 |  | 59.28 |  |  |  |  |  | 57.57 |  | 61.89 |  |  |  |

\*, data from Gao et al. (1998a, 1998b), in which the upper crust includes the sediment.

#, P-wave velocity at 600 MPa and room temperature.