**Table 3** Statistics of the differences between the gravimetric geoid models based on different reference gravity models and the GPS leveling measured geoid heights (unit: m)

|  |  |  |  |
| --- | --- | --- | --- |
| Reference gravity model | To d/o 2190 | To d/o 1080 | To d/o 720 |
| Mean | SD | Mean | SD | Mean | SD |
| EGM2008 | 0.864 | 0.058 | 0.883 | 0.067 | 0.882 | 0.072 |
| EIGEN-6C4 | 0.868 | 0.059 | 0.883 | 0.068 | 0.882 | 0.073 |
| XGM2019 | 0.867 | 0.058 | 0.884 | 0.068 | 0.882 | 0.072 |

Note: d/o represents the truncation degree and order of Earth gravity models