Table S1. Digital Simulation Noise Modeling Setup

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| Stage | Device | Performance | Parameter |
| 1 | Gyroscope | Integrated zero position |  |
| 2 | Gyroscope | Angular random walk factor |  |
| 3 | Accelerometer | Integrated zero position |  |
| 4 | Accelerometer | Angular random walk factor |  |
| 5 | GNSS | Velocity measurement noise |  |
| 6 | GNSS | Position measurement noise |  |