

Below is Jonathan's proposed paragraph 2.1.2.2.2 to close IP02, Altitude Rate Requirements. This proposal is in response to Action Item 6-19.

2.1.2.2.2 Altitude Rate

Altitude rate shall (R2.1) be designated as climbing or descending and shall be reported up to 32,000 feet per minute (fpm). Barometric altitude rate is defined as the current rate of change of barometric altitude. The geometric altitude rate of the state vector is measured along the line from the origin of the WGS-84 reference system to the current position of the A/V. ~~For NUC_p values 8 and 9, geometric altitude rate shall (R2.24) be reported. For other NUC values, barometric altitude rate or inertially augmented barometric altitude rate shall (R2. 25) be reported.~~ The best available source of altitude rate information should be used to derive an altitude rate for broadcast. If differentially corrected GPS (WAAS, LAAS, or other) is available, geometric altitude rate as derived from the GPS source should be transmitted. If differentially corrected GPS is not available, but inertial augmented barometric altitude rate is available, inertial augmented barometric altitude rate will be the preferred source of altitude rate information. In the absence of GPS or inertial augmented barometric rate, barometric altitude rate may be transmitted. A recommended Kalman filtering algorithm for deriving barometric altitude rate is provided in appendix ??. Alternative algorithms or direct measurement sources may be used to derive barometric altitude rate if it is demonstrated that the performance of the alternative is at least as good as that of the algorithm described in appendix ??.