

Table 4. Quality check conditions for invalidation of the ADP main-cell and multi-cell velocity data.

Parameter	Main-cell	Multi-cell
Signal-to-noise ratio (SNR)	One of the 3 beams is <15 counts	The difference between the beams is >10 counts
Predicted last cell (CP)	The end of the measurement volume is 0.8 m below or above CP	Cell range equals CP, and cells above
Velocity standard deviation	>3 cm/s for the East and North velocity components	>3.5 cm s ⁻¹ for the East and north velocity components; >2 cm s ⁻¹ for the vertical velocity component
Signal strength	Mean strength of the 3 beams is 5 counts less than the mean noise	Cell where the mean amplitude of the 3 beams increases upwards, and cells above