



Figure 4. Time-series of validated (black) probe data in (a) March 2008-February 2010; and (b) January 2012-December 2013. Ambiguous data are indicated in blue. The valid north component of the main-cell ADP velocities ( $U_{\text{north}}$ ) are also reported in black, with accepted values in blue. The time of probe cleaning and sensor calibration are indicated with the green and red vertical lines, respectively. The lower graph indicates the river discharge recorded at Pedrogão (thick black line) and Pulo do Lobo (red line) stations. The main discharge regimes are synthesised (in red) on top of figures (a) and (b), with (i): zero river discharge, (ii) ecological flow (river discharge  $\sim 50 \text{ m}^3 \text{ s}^{-1}$ ), and (iii) high river discharge ( $> 1000 \text{ m}^3 \text{ s}^{-1}$ ).