Supporting Information

Figure S1.

Sample flight path. 3-D position during one flight of the Himalayan vulture (same as in Fig 1) with superimposed information on heart rate (gradient of colour from red (HR>300 bpm), orange, purple, to blue (HR<100 bpm)) and behaviour (small triangles = soaring; small dots = gliding; large dots = flapping). The KML file is viewable with Google Earth software (http://www.google.com/intl/en/earth/index.html). A click on each dot displays time, altitude, HR, ODBA and behaviour.

Figure S2.
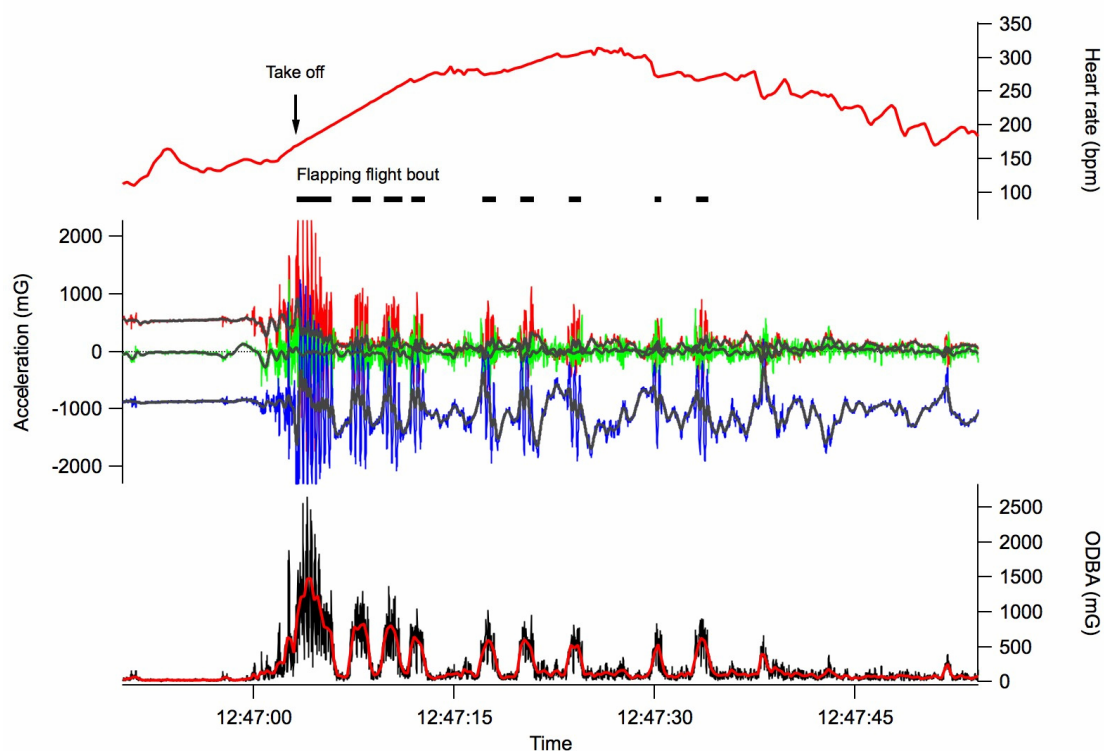
Acceleration, ODBA and Heart rate. Example of the first minute of one flight of Eurasian griffon vulture, showing the concordance between Heart rate (red line on top, in bpm), 3-D acceleration data (heave in blue, surge in red, sway in green, in mG, middle graph), and derived ODBA (in mG, black in 100 Hz and red line in 1 Hz, bottom graph). Each single wingbeat is determined by a peak on the heave and surge accelerations and the corresponding flapping bouts are shown as black rectangles above acceleration data.