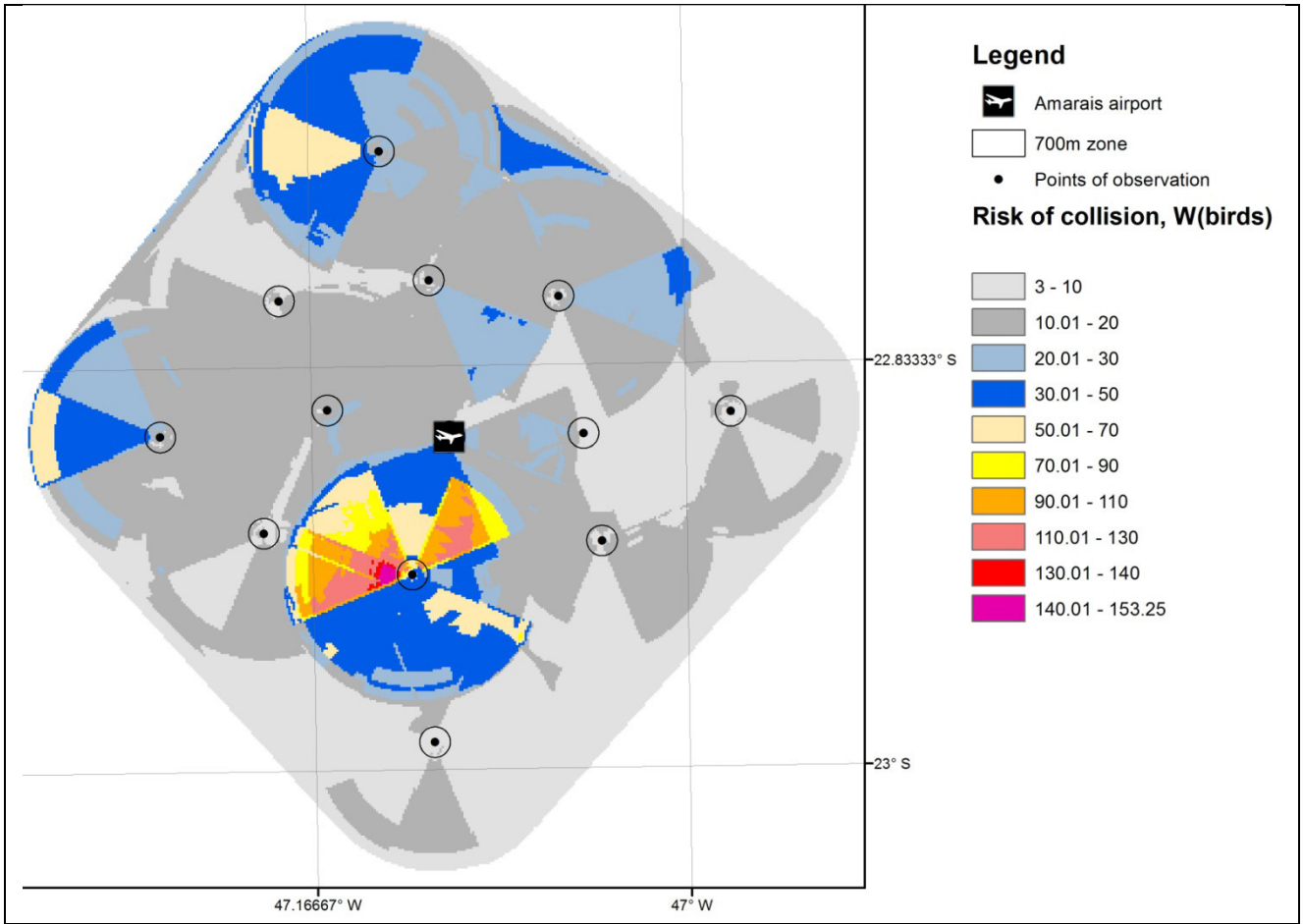

Figure 3.12 Risk assessment map of aircraft collisions with Black vultures within the 13 km radius around the Amarais airport.

The $W_{(birds)}$ index is the parameter obtained by dint of GIS methodology described in the text. For any spatial unit (a point of the map) around the 13 km radius from the airport, $W_{(birds)}$ is the estimated amount of birds which could be over this point during the total period of observations - 360 sky reviews or approximately 90 hours of pure observations[1].

..

[1]Those values – are the average number of sky reviews and hours of observations which were conducted above each vector point of the map. They were calculated from the total amount of sky reviews implemented in each site (4683 - Amarais, 4258 - Prudente) divided by 13), considering that one sky review lasted 15 minutes.

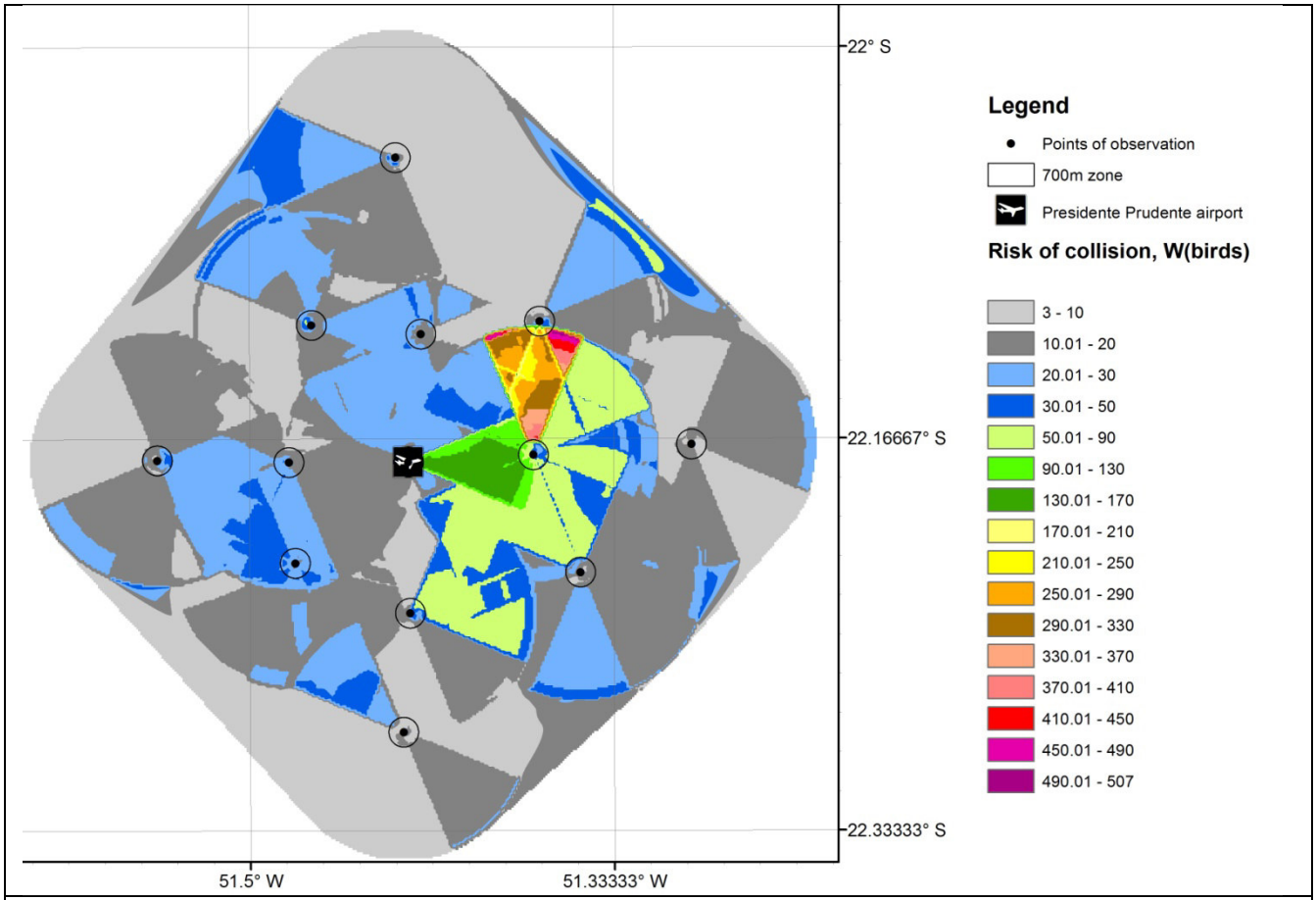

Figure 3.13 The risk assessment map of aircraft collisions with Black vultures within the 13 km radius around the Presidente Prudente airport.

The $W_{(birds)}$ index is the parameter obtained by dint of GIS methodology described in the text. For any spatial unit (a point of the map) around the 13 km radius from the airport, $W_{(birds)}$ is the estimated amount of birds which could be over this point during the total period of observations - 328 sky reviews or approximately 82 hours of pure observations (1 sky review lasts 15 minutes).