

In this new version of the manuscript authors have refocused the paper with a stronger emphasis on those issues related with sensor deployment, technical problems, data filtering, etc. The statistical analysis has been also improved with the use of bootstrapping techniques. Relationships found are not strong for most of the variables but they clearly state the limitations of these proximal sensing networks and also their potentials. I found very useful the detailed information provided about the instrumentation and methods that make the analysis fully reproducible and also the discussion on the limitations of the study and the recommendations and “lessons learnt” that can be derived.

As a general recommendation I would suggest trying to avoid repeating same ideas in both the discussion and conclusion sections.

Apart from that I have only some minor comments and corrections (pages and lines referred to bg-2015-324-manuscript-version3)

Page 2 line 20 I would suggest to include here some quantitative data on the relationships found

Page 2 line 25 Avoid repetition (pilot)

Page 2 lines 31-32 I would suggest to include “multispectral sensors” to the list

Page 3 line 26 Add a comma after farm

Page 5 line 16 Add space between “this” and “environment”

Page 6 line 13 Once an acronym has been defined, it should be consistently used through the text (FOV)

Page 7 line 13 Sensors instead of sensor?

Page 10 line 6 Add a comma after “confirmed that”

Page 10 lines 18 and 27. What does the V after Table 1 means?

Page 11 line 19 delete “into different”

Page 11 line 26 Add period after “noise”

Page 11 line 29 Delete “of”

Page 12 line 19. Delete “infrastructure during site visits”?

Page 12 line 26 Add period after “pastures”

Page 14 line 1 “is that” is repeated

Page 16 lines 2 to 15. This information can be summarized in a table

Page 19 lines 4 to 5 This is true except for June-July 2012. Why? Different species with different phenology?

Page 19 line 24 Reference source error (Table 3)

Page 19 line 27 correct “made for of all”

Page 20 line 1 “clearly show (how) the various”?

Page 21 line 12 Remove “lower”

Page 24 line 14 “period” repeated

Page 25 line 1 Add a comma after “replacement”

Page 25 line 26 Add period after WSN

Page 26 line 11 Correct “meteorological” stations

Page 27 lines 11 and 12 There is a contradiction between statements in this two lines. UAVs cannot have more flexible and more complex capture at the same time

Table 1. I would recommend to remove the sentences “broad band or generic broadband.....” in this table but add new column with a list of main applications in the context of the study

Table 2. Remove “is” before >3 STD

Figure 3. Add (left) y axis title/units

Figure 5. Combine the four plots in a single page

Figure 7. I would suggest to include here % Green based on field data for comparison

Figure 8. Letter (a, b, c, d..) to identify the plots should be consistently located in the upper right corner. Add y axis title/units . Some numbers in the y axis of plots a and g are incomplete (overlapped?)