

Manuscript by Prata and Bernardo (2013) for submission

Reading through the manuscript, this is a nice paper and provides a good description of the history, theory and two different applications of the infrared thermal imaging camera. There are some minor comments with the paper that I list below, line by line, and then edits needed to the figures.

Comments

Page 2, Line 23 – statement on ‘which we will designate’. This is not the first paper to say this range is the MIR, so I would remove the text ‘which we will’

Page 2, Line 25 – what is the format to call references. Is there a need for the double brackets, it should be written as (Wright et al., 2004).

Page 2, Line 38 – the acronym should be in the brackets and the full name be outside the bracket. This will ensure consistency in the paper. MIVIS in brackets.

Page 3, Line 1 – the acronym should be in the brackets and the full name is outside the bracket. ASTER in brackets.

Page 3, Line 2 – should be full name for EOS

Page 3, Line 16 – format for calling the references. Here should use Stremme et al., (2013) etc.

Page 3, Line 41 – the acronym should be in the brackets and the full name be outside the bracket. UV in brackets.

Page 4, Line 4 – the acronym should be in the brackets and the full name is outside the bracket. BLIP in brackets.

Page 4, Line 29 – the acronym should be in the brackets and the full name is outside the bracket. IR in brackets.

Page 4, Line 34 – should the spelling of focused be US not UK.

Page 4, Line 39 – there is a gap between Figure and 2.

Page 5, Line 1 – there is a gap between Figure and 2 each time.

Page 5, Line 14 – there is a gap between Figure and 3.

Page 6, Line 23 – the (left-most panels) should be (a) and (right-most panels) should be (e).

Page 7, Line 10 – reference format, edit to Prata et al., (2004).

Page 7, Line 36 – the acronym should be in the brackets and the full name is outside the bracket. 2D in brackets.

Page 8, Line 3 – section should have first letter in lower case.

Page 8, Line 34 – there is a gap between Figure and 6.

Page 14, Line 8 – the acronym should be in the brackets and the full name is outside the bracket. SNR in brackets.

Page 15, Line 19 – there is no need to say ‘see next’ as you state earlier that there are three types of error

Page 15, Line 38 – in the list, you should use 1., 2. Etc.

Page 15, Line 38 – the acronym should be in the brackets and the full name is outside the bracket. RT in brackets.

Page 16, Line 10 – reference format should be (Berk et al., 1999).

Page 16, Line 12 – reference format should be (Strow et al., 2003).

Page 18, Line 8 – altitudes of the two volcanoes should say if m above sea level.

Page 18, Line 8 – should state that they are both volcanoes.

Page 18, Line 9 – there is a gap between Figure and 9.

Page 18, Line 13 – what does refetna mean?

Page 18, Line 14 – there is a gap between Figure and 9.

Page 18, Line 23 – there is a gap between Figure and 9.

Page 18, Line 34 – here you use full name for the Figure and other times you use Fig. What is the official journal format?

Page 19, Line 32 – there is a gap between Figure and 12.

Page 19, Line 36 – there is a gap between Figure and 13.

Page 20, Line 18 – why state about the data from the second site and not show the data. This is important as later you write in the conclusions that the system was tested at two industrial sites but in the paper you only show one. Either you show the results from the second site or remove that it was tested at a second site.

Page 20, Line 22 – should start section 5.2 as ‘Etna volcano, Italy’

Page 20, Line 36 – there is a gap between Figure and 14.

Page 20, Line 37 – there is a gap between Figure and 14.

Page 20, Line 38 – there is a gap between Figure and 14.

Page 21, Line 1 – what is the full name for HYSPLIT?

Page 21, Line 6 – should start section 5.3 as ‘Stromboli volcano, Italy’

Page 21, Line 10 – you need a reference to the statement on active volcano for last 200 years

Page 21, Line 12 – you need a reference to the typical activity that lasts 10 minutes to a few hours.

Page 21, Line 37 – this comes back to the second industrial test site. If you don’t show the results then you cant state it was tested at two sites. You can include a figure of the results from the second site, or just say in this paper, shown it was tested at one industrial site.

Page 22, Line 11 – there is a gap after the superscript 6.

Page 22, Line 37 – why is there double brackets in the reference format.

Figures

Page 34, Figure 4 – why have a new sentence after each part (b), (c) etc.

Page 36, Figure 6 – reference format? Prata and Bernardo, 2009

Page 45, Figure 15 – there should be a gap between 07:00 and LT.