

Interactive  
Comment

## ***Interactive comment on “Detailed validation of the bidirectional effect in various Case 1 waters for application to Ocean Color imagery” by K. J. Voss et al.***

**K. J. Voss et al.**

Received and published: 14 September 2007

Neither Reviewer 1 or Reviewer 2 had any serious objections, mainly technical clarifications. These have all been addressed below, and in the revised manuscript.

Response to Reviewer 1

Specific Comments

Comment 1: I hopefully clarified this language.

Comment 2: I added why we excluded images, basically because a cable floated into the image, some other artifact is in the image (large fish very occasionally), or we could not determine the anti solar point (usually an indication of clouds over the sun).

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Coment 3: added to explanation of caption for Fig 3.

Comment 4. We actually did not normalize the Lview data in used in Figures 4 and 5. Figure 4's caption indicates that this is radiance, with the units. I tried to clarify the text to amplify this point.

Comment 5: I have changed things to RMS everywhere appropriately.

Comment 6: Actually I had not switched to %, but I hope by using difference rather than error throughout the text this is easier to see.

I changed all the smaller technical comments.

Reviewer 2

Comment 1: The reviewer is correct. I modified the language to be more accurate.

Comment 2: added current model of  $f/Q$ , which contains the bidirectional effect, by Morel;

Comment 3: this was cleaned up in response to the first reviewer and should be evident now.

Comment 4: I went through and placed units where I had missed before.

Comment 5: fixed name spelling error.

Comment 6: fixed language

Comment 7: I deleted the wavelength statement. It is accurate, but maybe too much information.

Comment 8: fixed

Comment 9: fixed

Comment 10, Agree changed to number of occurances.

**BGD**

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Comment 11: there are no units , it is a difference Lview/Lnadir. This is made clearer.

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Interactive comment on Biogeosciences Discuss., 4, 2069, 2007.

**BGD**

4, S1389–S1391, 2007

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