

Notes to authors

bg-2014-527: Reconstruction of super-resolution fields of ocean pCO₂ and air-sea fluxes of CO₂ from satellite imagery in the Benguela Upwelling System (version 7)

Ms Version 7: Before final decision:

- Include a short statement (summarizing the explanation provided to the editor), clarifying the referee-query about pCO₂ and xCO₂. This should follow the section on data description referring to use of GLOBALVIEW data (after line 240).
- Please check of the status of the “Sudre et al.” ms before quoting and listing as reference (line 434, lines 548-9): is there further indication whether this ms. is yet accepted? doi? If not quote where appropriate as “pers. comm.” or remove.
- “Nb” is not an accepted abbreviation for number : use “No.” throughout; check tables.
- Ensure that offshore Benguela is referred to throughout e.g. line 708 insert “offshore”. Your findings do not address the actual Benguela upwelling.
- The grammar and language usage must be improved throughout to give flow and better understanding to the text. Some obvious improvements are suggested:

Line No	Correct
5	Bracket pCO ₂
38	Remove “in particular”
57	image
63-64 improve	remove “we can find the work by”Takahashi et al. (2002, 2009) that interpolate.....
72	Remove “Beside the Takahashi’s works”
73	Change to “recently been”
75	Remove “later”
77	approaches
78	have been
81	Remove “an”
84on direct remove “the”
97	Remove “of”
113	Comma after flow
121	and Turiel....
122	allows study of its
140	current
149	flux
153	descriptions
168	Remove “more precisely”
175	This paper.....
237	Change to “ We use values taken at the closest sea-level station to the Benguela, located.....
258	Change sentence order : sentence “Examples....” before sentence beginning “Results...”
268	Leave out “when dealing with CO ₂ for instance”
386	cruise
396	Insert “With that functional.....”
405	Change “like” to “such as”

254	Change “with” to “to”
468	carbonate
478	“These” and “they” (line 482) – clarify ? results of Montes et al. ?
492	Improve :concentrations (SST and Chl-a) with pCO ₂ , is performed in order to obtain a proxy for pCO ₂ at high resolution by using
515	functional what? – word missing
517	Wavelet
590	...ability to obtain...
653	...MERIS. This is discussed in more depth in the next sections. (delete bracket contents)
684	Change “From..... use” to “Henceforward we use.....”
681	slight
698	Delete “will”
749	Change “mentioned....combinations” to ...”above-mentioned product combinations
755	product
757 onwards; fig 8	Clarify (also in label fig.8) whether you mean”compares the spatial distribution of the pCO ₂ ^{infer} values to the time averages over 2006 and 2008 for the three product combinations”
80751%, and is more affected.....
825to examine the transition fronts.....
828	Delete “One can see that”
834	...as happens in the ocean.....
842	Delete “in particular”
849	product
859	Most days....
860	On some days....
862fluctuations as
866	Delete “on one hand,”
882	..due to cloudiness....
929	Delete “the fact”
944	statistical
948	Delete “that”
961	scale
963	given
967	flux
972	...have also been obtained....
973	Use the word “capturing” not “catching”
978	Replace “have obtained” with “show”
984	Delete” From”: These results indicate that....
985	...will be only as good...
991	work
992-3	...on the extension.....to larger areas in order to infer.....
994 - end	Clumsy last sentence. Remove “us to perform an even “.....from more in-situ measurements. Remove lines 996,997.

