

I thank the authors for taking care of my previous comments. I found the paper much easier to read and follow. I recommend the publication of this paper after considering minor comments:

L162 to 169: this paragraph may be moved at the end of section 2.5.2 where the calculation of Chl standing stock is defined and where it is explained why P1 is independent of possible seal influence

Line 164: why do you use the SW box to derive the slope of Chl-a whereas in Line 417 and in Fig 7 this is the NE box which is used? It is maybe a typo.

L281: as you developed a little bit your interpretation for adg Line 276-277 (which was great! Please keep it). The same kind of explanation for bbp would be helpful

L 331: Can you provide some possible interpretations of the causal links of adg and bbp trends with those of Chl during wintertime?

Figure 9: the left y-axis could be more extended upward to reach approximately the highest values. You may also consider to adapt the right y-axis, as it was in the initial version. Right now, it looks like the seal fertilization induced Chl seems stable, the increase is not visible

Conclusion section:

L 449: it is written that “no trends in particulate bbp and adg were markedly different from the surrounding environment”. Not sure to understand... Figure 4 shows that there are trends in the 3 variables during wintertime, which for all of them are stronger around SI than in the SE and NE regions.

Also, in this section the bbp and adg patterns are only descriptive, can you add some causal links of adg and bbp trends with those of Chl.

L 459: replace “strong” by “good”

Typo:

Line 20: “during winter”

Line 30: I am not sure that Signorini et al 1999 deal with benthic resuspension

L 140: climatologies

L 146: for boxes 1, 2, 3 **and 4**, check with Figure 2 where it is written group 1= boxes 1 to 3

L 147: you could add at the end of the sentence “as illustrated in Figure 2”

L 214: “between males and females the same”. I am not sure to understand “the same”

L 267: the shelf **showed**

L 305: in **winter**

L 313 in spring

L 322: three “ROIs”, please define

L 382: the seal supported the chl-a annual standing stock ...

L 418: **corresponded**

L 423: differences **occurred**

L 424: fertilization **provided**

L 430: provide a good agreement

L 441: around SI, region referred to as ...

L 441: occurred