

Seasonal dispersal of fjord meltwaters as an important source of iron and manganese to coastal Antarctic phytoplankton

I reviewed the original submission of this article. The authors have appropriately discussed and replied to two reviewers, both of whom found the original article interesting. I have no major comments on the revised version or on the authors' replies. The manuscript is technically sound and a substantial, and very useful, study.

Minor technical edits suggested below:

30 primary production increases and potentially carbon export -suggest 'primary production, and potentially carbon export, increase'

33 Delete 'existing'

39 ACC – defined? You don't use it much, suggest just writing it out

115 'In brief...' Doesn't read well. I suggest you just move this sentence before the sampling, 'Bottles were pre-cleaned...' and then the paragraph will read ok

142 0.34 nM dFe

144-150 No units on any concentration

193 Buck et al., ref format

202 were previously applied

313 Suggest splitting this sentence in two

323 Fig. 5 n6 ??

501 I agree generally, but you do not explicitly show Fe or Mn is limiting herein, suggest 'could stimulate'

623 More convincing is the correlation between LpFe and dFe so suggest just referring to this directly. I suspect the 4% and 5% have relatively large standard deviations so wouldn't state it was 'remarkable'.

801 small fraction of Fe from these particles

821 I understand this long term perspective, but potentially important to stress this is long term given the earlier comment on the potential for short-term increases, so maybe add a clause 'In the short term, increased Fe and or Mn supply may increase primary production.... But conversely, in the long term....'

Supplement

40 mwf of