

## Referee #1

Charalampopoulou et al. provided a (new) revised high quality and well written version of the manuscript: “Environmental drivers of coccolithophore abundance and calcification across Drake Passage (Southern Ocean)”. As I mentioned in the first review, it is actually a very interesting piece of work.

I went through both reviews (including responses) and checked carefully the new version of the manuscript, and I consider that the authors took into consideration all the suggestions provided. Charalampopoulou et al. extensively replied to the majority of the comments and convincingly rebutted the rest. They even improved by adding updated information from the Great Calcite Belt (Balch et al., 2016), just published last month.

I was a bit confused with the number lines included in the “response to the Anonymous Referee #1”, because they do not match with those in the last version of the manuscript (e.g. in the 2<sup>nd</sup> response line 550 should be 536, 643 should be 631). However, I do not think this is relevant.

I would only comment on:

Line 913: Double check if you need “pp.” before the number of pages.

Line 925: The year is missing.

Fig. 5: I would enlarge the dashed line from A to D (instead only to C). That will make it easier for the reader.

## Editor

Below are a few technical corrections.

Line 147: Please use the math symbol “ $\times$ ”, not alphabet “X”.

References: Please follow the Copernicus Publications Reference Types described below. For example, please insert “and” between the last author and the second from the last. Journal names are generally abbreviated. Also please use comma, not period, before publication year.

# Copernicus Publications Reference Types

## General Remarks

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Works cited in my manuscript should be accepted for publication or published already. These references have to be listed **alphabetically** at the end of the manuscript under the **first author's name**. Works "submitted to", "in preparation", "in review", or only available as preprint, should also be included in the reference list. Please do not use bold or italic writing in short citations in the text as well as in the reference list.

Please supply the full author list with last name followed by initials. After the list of authors the complete reference title has to be named. Thereby, journal names are abbreviated according to the ISI Journal Title Abbreviations Index, followed by the volume number, the complete page numbers (first and last page) and the publication year. If the abbreviation of a journal name is not known, please use the full title. In addition to journal articles, all reference types are summarized in the following chapters.

If there is more than one work by the **same first author** his/her papers are listed in the order: (1) single author papers (first author), followed by (2) co-author papers (first author and second author), and finally (3) team papers (first author et al.). Within these three categories the respective papers are then listed as follows:

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In terms of short citations in the text, the ordering can be by relevance, as well as chronologically or alphabetically, depending on author's preference.

## Examples for Reference Sorting

In general, short citations in the text can be displayed as "[..] Smith (2009) [...]", or "[...] (Smith, 2009) [...]".

Reference List	Short Citation
<b>Single author: chronologically</b>	
Smith, P.: ..., 2009.	Smith, 2009
Smith, P.: ..., 2010a.	Smith, 2010a
Smith, P.: ..., 2010b.	Smith, 2010b
<b>Co-authors: alphabetically before chronologically</b>	
Smith, P. and Brown, P.: ..., 2010.	Smith and Brown, 2010
Smith, P. and Carter, T.: ..., 2007.	Smith and Carter, 2007
Smith, P. and Carter, T.: ..., 2010a.	Smith and Carter, 2010a
Smith, P. and Carter, T.: ..., 2010b.	Smith and Carter, 2010b
Smith, P. and Thomson, A.: ..., 2005.	Smith and Thomson, 2005
<b>Team: chronologically before alphabetically</b>	
Smith, P., Thomson, A., and Carter, T.: ..., 2006.	Smith et al., 2006
Smith, P., Carter, T., and Hanson, M. B.: ..., 2008a.	Smith et al., 2008a
Smith, P., Carter, T., and Walter, N.: ..., 2008b.	Smith et al., 2008b
Smith, P., Carter, T., and Hanson, M. B.: ..., 2009.	Smith et al., 2009
Smith, P., Brown, P., and Walter, N.: ..., 2010.	Smith et al., 2010

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## Reference Types & Examples

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### Journal Article

- Author(s) (Initials always after last name!)
- Article title
- Journal title abbreviation
- Volume
- Page numbers
- Year

Punge, H. J. and Giorgetta, M. A.: Differences between the QBO in the first and in the second half of the ERA-40 reanalysis, *Atmos. Chem. Phys.*, 7, 599–608, 2007.

### Journal Article with doi Number

- Author(s) (Initials always after last name!)
- Article title
- Journal title abbreviation
- Volume
- Page numbers or article number
- doi number
- Year

Felder, M., Poli, P., and Joiner, J.: Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements, *J. Geophys. Res.*, 112, D01303, doi:10.1029/2005JD006769, 2007.

### Book

- Author(s), Editor(s) (Initials always after last name!)
- Book title
- Edition
- Series title and volume (if any)
- Editors (if not authors)
- Publisher
- Location
- Total pages (optional) pp.
- Year

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Singh, O. N. and Fabian, P. (Eds.): Atmospheric Ozone: a Millennium Issue, Copernicus Publications, Katlenburg-Lindau, Germany, 2003.

### **Book Chapter**

- Author(s) (Initials always after last name!)
- Article title
- Book title
- Edition (if any)
- Editors (if any)
- Publisher
- Location
- Page numbers of article in book
- Year

Eagleson, P. S.: Physical composition of the oceans and lakes, in: Dynamic Hydrology, EGU Reprint Series, 2, Copernicus Publications, Katlenburg-Lindau, Germany, 67–78, 2003.

### **Presented Paper**

- Author(s) (Initials always after last name!)
- Paper title
- Name of Meeting/Conference
- Location of Meeting/Conference
- Date of Meeting/Conference
- Abstract number
- Year

Kepler, F., Hamilton, J., Braß, M., and Röckmann, T.: An overlooked major source of atmospheric methane: in situ formation in plants, EGU General Assembly, Vienna, Austria, 2–7 April 2006, EGU06-A-08188, 2006.

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- Paper title
- Proceedings title
- Name of Meeting/Conference
- Location of Meeting/Conference
- Date of Meeting/Conference
- Abstract number or page numbers
- Year

Iwata, M., Matsumoto, H., and Kojima, H.: Computer experiments on the plasma wave generation in the vicinity of Earth's bow shock, in: Proceedings of the 6th International School/Symposium on Space Plasma Simulation Overview, Garching, Germany, 3–8 September 2001, 4–6, 2001.

### **Report, Map, Thesis, Dissertation**

- Author(s) (Initials always after last name!)
- Title
- Report designator (M.S., Ph.D., etc.)
- Issuing Organization/University
- Location
- Total pages (optional) pp.
- Year

Monger, J. W. H. and Journeay, J. M.: Guide to the geology and tectonic evolution of the southern Coast Mountains, Geol. Surv. of Can., Ottawa, Ont., Open File Rep. 2490, 77 pp., 1994.

Brown, R. J. E.: Permafrost in Canada, Geol. Surv. of Can., Ottawa, Ont., Map 1246A, 1967.

Kronberg, E. A.: Dynamics of the Jovian Magnetotail, Ph.D. thesis, International Max Planck Research School, Universities of Braunschweig and Göttingen, Germany, 133 pp., 2006.

### **Webpages**

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