

## **Responses to reviewer 1 (anonymous)**

### **General Comments**

Overall this is a nice summary of the datasets and issues for the CUpEx work. The paper gives a nice overview with enough detail to highlight what needs more investigation in other work.

Thanks for your general comments on our work. We agree that this is an overview paper of a field experiment and we are now working in many issues that deserve further research.

### **Specific comments**

We altered the text according to your suggestions and a few typos were corrected. Page and lines of new text are relative to the revised-version in word format sent to ACP.

Pg 26439 line 21 – wind-energy potential should be wind-energy potentials

Pg 26440 line 2 Angamos on the northern ...

Both corrected...

Pg 26440 lines 1-2 – need to note that these locations are shown in Fig. 3a

Text altered to note that these locations are in Fig. 1 (page 3, line 8)

Pg 26440 lines 10-11 – should reference that Fig 3a is Quikscat wind composite

Text altered to reference QuickScat (page 3, line 16)

Pg 26440 – line 21 replace limitations by land mask with limitations that result from

Text altered accordingly (page 3, line 27)

Pg 26441 line 2 AMBL should be spelled out on first use

AMBL spelled out on first use (page 3, lines 20-21)

Pg 26441 line 5 - insert space after downwelling

Pg 26445 line 12 – understanding not understating

Pg 26447 line 9 recovery not recover

Typos corrected...thank you!

Pg 26446 lines 18-22 should mention how vertical motion was derived for these cases

NCEP-NCAR reanalysis is now cited on the text (page 9, line 1)

Pg 26447 lines 14-16 explain that these are the blue vectors on the plot and where they were derived from

Pg 26469 Fig 12 caption note what sources the different datasets were to derive the blue arrows

We make explicit reference to the different color of the vectors in the text (page 9, line 29) and we now make reference to the study from Muñoz et al. (2003) from where we obtained additional spring climatology of surface wind. See caption of Fig. 12.

Pg 26450 lines 1-2 might note that this is a point for further study as well

Text altered accordingly (pages 12, lines 3-4)

Pg 26454 line 12 it is 2007 Monthly Weather Review pgs 60-81

Reference updated