

## ***Interactive comment on “Atmospheric forcing of DSOW salinity” by J. Holfort and T. Albrecht***

### **Anonymous Referee #3**

Received and published: 23 January 2007

The hypothesis that atmospheric winds north and west of Iceland affect the Denmark Strait overflow and specifically the overflow salinity seen downstream is plausible but to my mind it has a weak demonstration here, possibly because of the absence of physical links? I can't say I know exactly what a convincing demonstration would be but I believe I would recognise it if I saw it.

However I suggest that with some minor editing of the English and some minor corrections (below) you go ahead and publish it.

Here are some specific items. In para. 3 of section 3 figure 4 is described. Last sentence begins 'The salinity then decreases gradually to a minimum of 34.86 in 1999... and then dropped again to values around 34.865 in 2004'. This latter fall is not shown on figure 4 which ends start 2004, but rather on figure 6 which ends a year later. Correction needed here.

I was disappointed that figure 9 did not extend to end 2004 so that it too could show how the pressure difference followed this same fall. (Even if it did not it ought to be included!)

The following corrections also must be made in more than one location coupling for copling and Iceland for Island (text and figure legends).

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Interactive comment on Ocean Sci. Discuss., 3, 1661, 2006.

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Interactive Discussion

Discussion Paper