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*Supplement of*

## **Assessment of the representation of Antarctic Bottom Water properties in the ECCO2 reanalysis**

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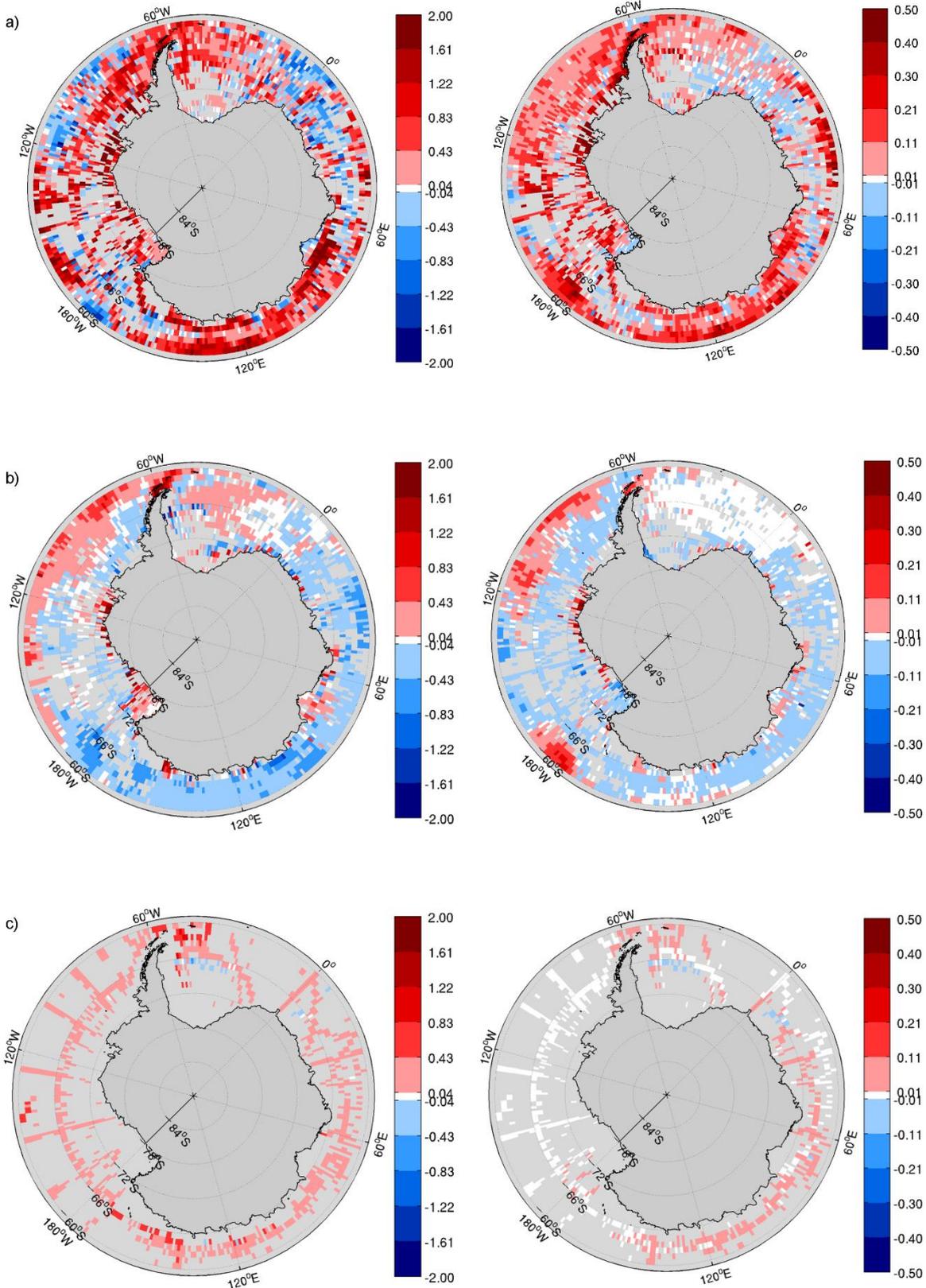
21 *Table S1: Sampling periods from the historical WOCE sections used in the study.*

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<b>Historical WOCE Sections</b>			
	<b>SR4</b>	<b>SR3</b>	<b>SR2</b>
<b>Month/Year of Sampling</b>	11/1992	03/1993	06/1992
	12/1992 – 01/1993	01/1994	04/1996
	04/1996 – 05/1996	03/1996	04/1998 – 005/1998
	04/1998	11/2001 – 12/2001	03/1999
	02/2005 – 03/2005	01/2002 – 02/2002	12/2000
	03/2008	02/2003 – 03/2003	12/2002
	12/2010 – 01/2011		02/2005
			02/2008 – 03/2008
			12/2010

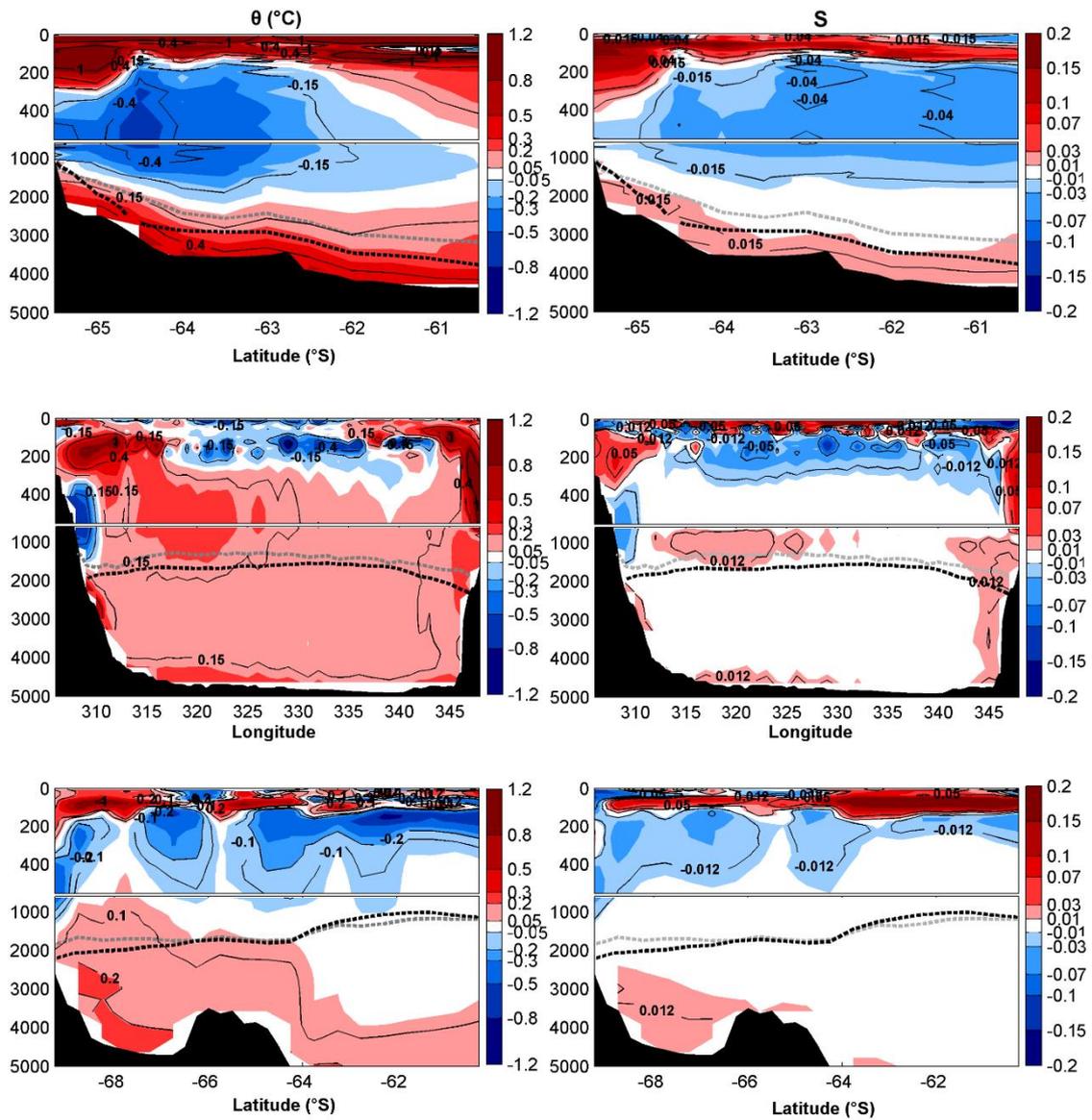
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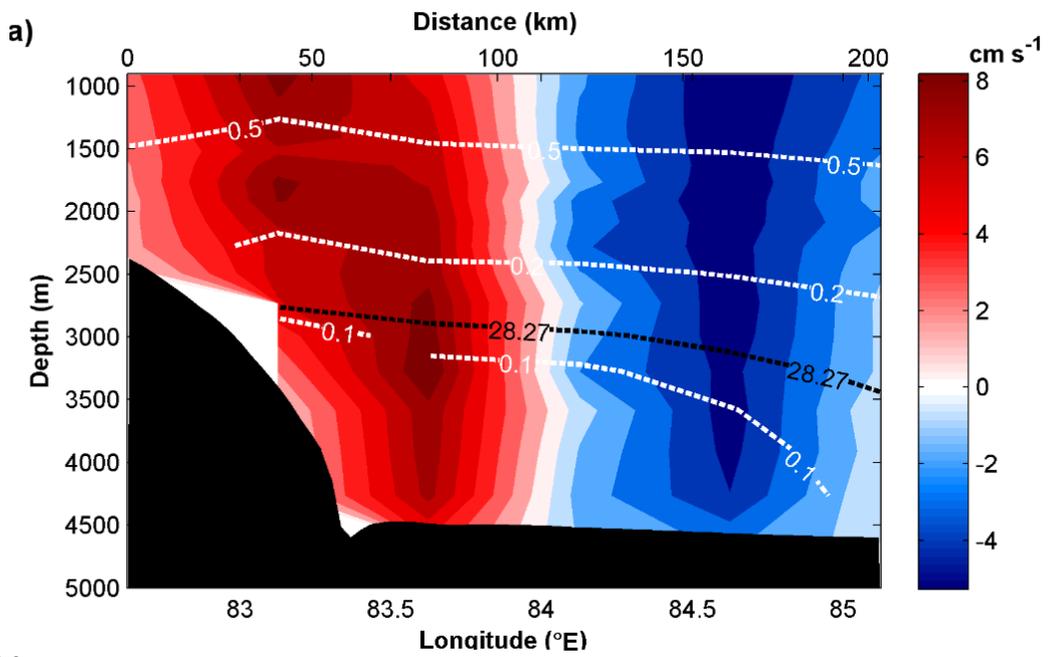
26 *Figure S1: Difference between the reanalysis and observed average fields (1992–2004) of  $\theta$  (left panel) and  $S$  (right panel)*  
 27 *for the (a) surface layer – SL, (b) intermediate layer – IL and (c) bottom layer – BL.*



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30 *Figure S2: Difference between the reanalysis and observed average fields of  $\theta$  (left panel) and  $S$  (right panel) for the repeat*  
 31 *(a) section WOCE SR3, (b) section WOCE SR4 and (c) section WOCE SR2. A more detailed description of the differences in the*  
 32  *$\theta$  and  $S$  fields for sections WOCE SR2 and WOCE SR4 can be found in Dotto et al. (2013).*

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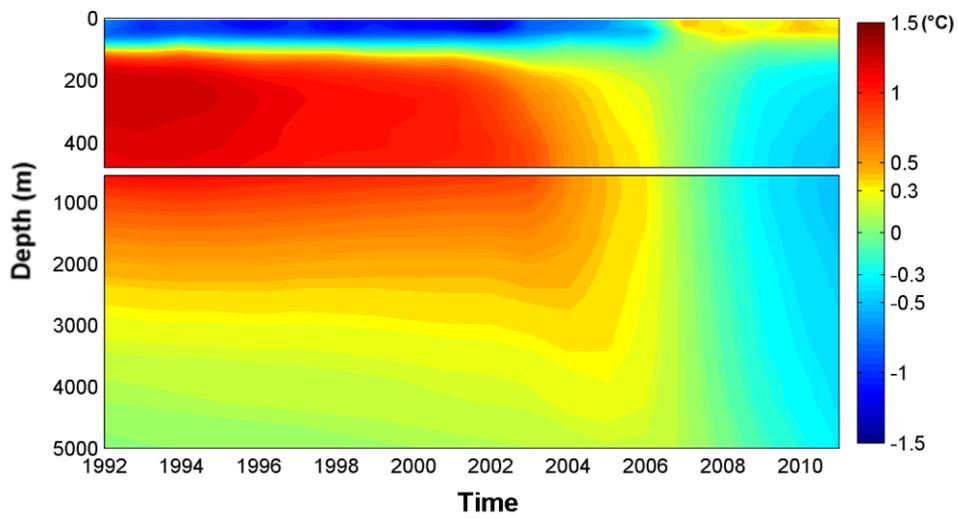


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35 *Figure S3: Section I (see Figure 1) averaged velocity field ( $\text{cm s}^{-1}$ ) for February 2003 – January 2005 as evaluated by*  
 36 *Fukamachi et al. (2010). White dotted lines indicate isotherms.*

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40 *Figure S4: Hovmöller diagram of the average temperature in Section IV (see Fig. 1).*