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*Supplement of*

## **Ocean–atmosphere exchange of organic carbon and CO<sub>2</sub> surrounding the Antarctic Peninsula**

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Date	Cruise	st	Depth(m)	EDOC ( $\mu\text{mol C L}^{-1}$ )	Date	Cruise	st	Depth(m)	EDOC ( $\mu\text{mol C L}^{-1}$ )
		9	1	45.9			17	1	74.4
5 Feb 2009	ATOS	9	50	63.9	13 Feb 2009	ATOS	17	25	67.3
		9	90	99.1			17	70	55.4
		10	1	55.0			18	1	53.4
6 Feb 2009	ATOS	10	50	30.6	14 Feb 2009	ATOS	18	12	97.1
		10	90	43.6			18	60	63.9
		11	1	47.5			19	1	84.6
7 Feb 2009	ATOS	11	30	57.8	15 Feb 2009	ATOS	19	12	82.9
		11	70	61.6			19	50	68.3
		12	1	44.1	16 Feb 2009	ATOS	20	23	86.9
8 Feb 2009	ATOS	12	8	44.4			20	70	51.2
		12	70	16.5			21	1	97.9
		13	1	48.0	17 Feb 2009	ATOS	21	25	36.9
9 Feb 2009	ATOS	13	15	79.3			21	70	53.2
		13	70	79.1			22	1	62.7
		14	1	62.4	18 Feb 2009	ATOS	22	20	53.2
10 Feb 2009	ATOS	14	30	75.2			22	50	60.2
		14	80	31.3			23	1	71.7
		15	1	81.0	19 Feb 2009	ATOS	23	20	81.4
11 Feb 2009	ATOS	15	55	75.0			23	50	83.8
		15	100	84.8			24	1	19.3
		16	1	65.9	20 Feb 2009	ATOS	24	15	49.5
12 Feb 2009	ATOS	16	50	36.7			24	70	47.7
		16	100	36.6			25	1	63.9
					21 Feb 2009	ATOS	25	15	58.0
							25	80	50.6