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*Supplement of*

## **Diatom flux reflects water-mass conditions on the southern Northwind Abyssal Plain, Arctic Ocean**

**J. Onodera et al.**

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NAP11t-S26	08-Sep-12	18-Sep-12	10	252.9 ± 0.2	8.9	--	--	--	--	--	--	573.5	29.1	2.7	18.5	7.9	7.9	0.0	1.9	33.0	16.5	1.7	0.2	0.0	9.1	17.3	12.4
<b>Deep Trap</b>																											
NAP10t-D01	04-Oct-10	18-Oct-10	14	1333.5 ± 2.3	2.4	--	--	--	--	--	--	80.0	0.6	0.0	0.4	0.1	1.6	0.0	6.5	8.1	29.0	0.0	3.2	13.0	14.5	7.3	16.8
NAP10t-D02	18-Oct-10	02-Nov-10	15	1329.1 ± 1.3	13.1	0.4	3.4	9.8	--	--	--	152.0	1.0	0.2	0.5	0.3	10.2	0.0	4.6	15.7	12.0	6.5	7.4	0.0	10.2	22.2	11.1
NAP10t-D03	02-Nov-10	17-Nov-10	15	1328.4 ± 2.6	53.1	0.5	4.1	11.7	--	14.0	--	417.0	11.3	1.4	4.4	5.6	3.8	0.0	1.4	10.4	9.0	8.5	11.3	0.0	7.5	37.5	10.6
NAP10t-D04	17-Nov-10	02-Dec-10	15	1327.5 ± 2.9	77.7	0.5	3.9	11.1	--	14.1	--	521.5	11.8	1.7	5.1	5.0	10.4	0.0	1.7	2.3	10.4	11.0	10.4	0.0	3.0	40.2	10.7
NAP10t-D05	02-Dec-10	17-Dec-10	15	1326.3 ± 3.0	116.9	0.4	3.4	9.6	7.0	15.3	68.1	440.0	29.8	2.4	12.8	14.6	25.4	0.0	2.7	4.0	9.8	6.3	7.6	0.0	1.3	38.4	4.5
NAP10t-D06	17-Dec-10	01-Jan-11	15	1324.8 ± 1.4	82.7	0.4	3.7	10.6	0.3	14.9	74.2	326.0	22.1	2.1	10.0	10.0	17.3	0.0	1.1	7.3	5.6	5.0	8.9	0.0	1.1	42.5	11.2
NAP10t-D07	01-Jan-11	16-Jan-11	15	1324.2 ± 1.3	39.6	0.3	2.8	8.0	0.7	13.5	77.9	341.5	11.6	1.3	4.7	5.6	14.2	0.0	2.3	11.9	3.4	6.8	11.3	0.0	1.7	41.6	6.8
NAP10t-D08	16-Jan-11	31-Jan-11	15	1323.0 ± 0.7	32.6	0.3	2.4	6.9	0.9	11.0	81.3	376.0	12.7	0.8	6.0	5.9	38.1	0.0	0.5	9.4	5.0	5.4	3.5	0.0	2.5	30.9	4.7
NAP10t-D09	31-Jan-11	15-Feb-11	15	1322.8 ± 0.4	37.9	0.3	2.9	8.3	1.7	9.9	80.0	416.0	14.1	0.6	8.8	4.7	41.9	0.0	1.4	11.6	5.4	1.8	2.5	0.0	1.8	31.2	2.3
NAP10t-D10	15-Feb-11	02-Mar-11	15	1322.7 ± 0.5	24.9	0.3	2.9	8.2	--	9.7	--	348.5	9.4	0.7	5.2	3.5	29.7	0.0	0.0	6.9	5.0	5.9	3.2	0.0	1.8	43.5	3.9
NAP10t-D11	02-Mar-11	15-Mar-11	13	1322.2 ± 0.8	23.7	0.2	2.1	5.9	--	8.7	--	330.0	5.2	0.4	3.2	1.5	26.0	0.9	1.3	10.0	4.3	5.2	2.6	0.0	4.3	40.9	5.4
NAP10t-D12	15-Mar-11	28-Mar-11	13	1322.2 ± 0.8	86.2	0.3	2.9	8.4	1.2	10.2	80.2	433.0	16.9	1.4	10.7	4.8	29.8	1.3	1.6	7.4	5.8	4.9	2.9	0.0	1.6	42.4	3.6
NAP10t-D13	28-Mar-11	10-Apr-11	13	1322.3 ± 1.2	50.6	0.3	2.7	7.6	1.3	9.2	82.0	331.5	10.4	0.9	6.0	3.5	30.4	1.8	0.0	13.2	9.1	3.2	4.5	0.0	1.8	36.5	1.4
NAP10t-D14	10-Apr-11	23-Apr-11	13	1322.6 ± 0.7	72.3	0.7	4.1	11.8	2.6	9.4	76.3	367.0	14.3	1.7	7.9	4.8	19.6	0.4	0.8	10.2	3.7	11.8	2.0	0.4	1.2	40.0	10.2
NAP10t-D15	23-Apr-11	06-May-11	13	1321.4 ± 0.5	41.3	0.5	3.4	9.7	1.4	8.8	80.1	322.5	4.6	0.7	2.5	1.4	5.8	0.4	0.4	15.7	5.4	13.5	4.0	0.4	3.6	37.5	13.5
NAP10t-D16	06-May-11	19-May-11	13	1321.1 ± 0.5	27.0	0.2	2.0	5.6	--	10.0	--	358.5	5.6	1.0	2.4	2.3	9.8	0.0	2.3	6.6	7.0	10.8	11.7	0.0	6.1	33.5	12.2
NAP10t-D17	19-May-11	01-Jun-11	13	1321.2 ± 0.4	62.3	0.3	2.4	6.8	1.9	9.7	81.5	371.5	7.3	1.2	3.2	2.9	14.8	0.0	0.4	6.3	9.4	8.5	14.3	0.0	11.2	22.6	12.5
NAP10t-D18	01-Jun-11	14-Jun-11	13	1321.1 ± 0.5	27.4	0.3	2.4	6.7	--	10.0	--	370.0	7.2	1.1	3.3	2.9	14.9	0.9	1.4	8.1	11.3	9.5	13.5	0.0	4.5	30.6	6.8
NAP10t-D19	14-Jun-11	27-Jun-11	13	1320.8 ± 0.7	17.7	0.2	1.7	5.0	2.3	9.2	83.6	181.5	2.8	0.5	1.2	1.2	21.8	0.0	0.0	9.5	9.5	12.3	6.6	0.0	5.7	24.2	10.4
NAP10t-D20	27-Jun-11	10-Jul-11	13	1320.3 ± 0.8	19.1	0.2	1.9	5.3	2.0	8.0	84.7	140.5	2.2	0.1	1.1	1.0	7.8	0.0	1.3	1.3	9.2	6.5	2.6	0.0	1.3	62.1	7.8
NAP10t-D21	10-Jul-11	23-Jul-11	13	1320.0 ± 0.7	44.3	0.2	2.1	6.1	1.2	7.9	84.8	365.5	8.2	1.0	4.7	2.5	8.6	0.4	0.0	5.1	7.1	6.3	9.0	0.0	5.1	52.1	6.7
NAP10t-D22	23-Jul-11	05-Aug-11	13	1319.6 ± 0.3	106.8	0.3	3.1	8.9	1.4	8.4	81.3	369.0	11.5	2.0	5.8	3.7	7.6	0.8	0.8	6.0	6.4	9.2	13.5	0.0	5.2	40.6	10.8
NAP10t-D23	05-Aug-11	18-Aug-11	13	1319.5 ± 0.5	160.2	0.4	3.6	10.3	2.7	9.1	77.9	475.5	37.2	19.8	8.4	9.0	1.9	1.7	0.6	6.4	6.1	56.6	8.9	0.0	6.7	8.2	4.7
NAP10t-D24	18-Aug-11	31-Aug-11	13	1319.8 ± 0.6	110.3	0.4	3.7	10.5	3.0	10.9	75.6	417.0	65.2	49.9	5.9	9.4	0.6	0.0	0.0	1.7	2.5	75.9	12.9	0.0	0.6	2.5	3.4
NAP10t-D25	31-Aug-11	14-Sep-11	14	1321.5 ± 2.9	75.5	0.5	4.0	11.4	1.9	10.9	75.8	452.5	32.9	20.6	6.9	5.3	1.8	0.0	0.3	7.4	2.9	62.5	11.1	0.0	3.4	5.1	5.5
NAP10t-D26	14-Sep-11	28-Sep-11	14	1320.1 ± 1.8	53.7	0.4	3.2	9.0	0.5	10.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D01	04-Oct-11	19-Oct-11	15	1363.5 ± 1.3	26.4	--	--	--	--	--	--	414.0	4.6	2.6	1.2	0.8	2.9	0.0	0.9	2.0	8.8	53.4	12.0	0.6	2.9	9.8	6.7
NAP11t-D02	19-Oct-11	03-Nov-11	15	1361.8 ± 0.6	24.4	--	--	--	--	--	--	395.5	6.7	4.0	1.3	1.4	1.0	0.0	2.9	4.5	5.8	64.8	8.7	0.0	4.8	6.1	1.3
NAP11t-D03	03-Nov-11	18-Nov-11	15	1361.1 ± 1.1	36.4	0.6	4.6	13.0	--	10.7	--	403.5	7.8	3.6	2.3	1.9	3.0	0.0	2.0	4.0	10.9	50.4	9.2	0.0	5.3	11.2	4.1
NAP11t-D04	18-Nov-11	03-Dec-11	15	1360.8 ± 1.2	115.6	0.4	3.6	10.2	0.5	11.3	78.0	507.5	22.8	6.0	7.4	9.5	21.7	0.0	5.1	2.4	6.1	36.9	7.1	0.0	0.7	14.4	5.8
NAP11t-D05	03-Dec-11	18-Dec-11	15	1359.7 ± 0.2	114.8	0.4	3.5	10.1	1.0	11.0	77.8	554.0	37.4	6.0	15.2	16.2	38.3	0.0	4.8	10.9	6.4	24.3	2.9	0.0	0.6	11.2	0.6
NAP11t-D06	18-Dec-11	02-Jan-12	15	1360.0 ± 0.9	100.3	0.4	3.8	10.9	1.0	11.3	76.7	472.5	31.9	3.7	14.2	14.0	39.3	0.0	3.8	4.9	7.2	15.5	4.2	0.0	1.1	21.7	2.3
NAP11t-D07	02-Jan-12	17-Jan-12	15	1359.7 ± 0.0	85.5	0.4	3.8	10.7	1.8	11.6	76.0	505.0	9.7	2.3	3.9	3.5	18.4	0.0	2.8	5.3	10.0	29.0	5.9	0.0	1.6	21.8	5.3
NAP11t-D08	17-Jan-12	01-Feb-12	15	1359.7 ± 0.0	54.1	0.4	3.8	11.0	1.0	11.1	77.0	446.0	15.0	1.9	8.7	4.4	43.8	0.0	4.2	1.3	6.4	13.1	3.8	0.0	1.6	21.4	4.5
NAP11t-D09	01-Feb-12	16-Feb-12	15	1359.7 ± 0.0	38.7	0.4	3.9	11.2	0.1	10.1	78.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D10	16-Feb-12	02-Mar-12	15	1360.1 ± 0.8	15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D11	02-Mar-12	17-Mar-12	15	1360.1 ± 1.0	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D12	17-Mar-12	01-Apr-12	15	1359.6 ± 0.5	8.0	--	--	--	--	--	--	355.0	3.7	0.6	2.1	1.1	31.6	0.0	6.4	3.6	7.2	15.2	4.8	0.0	0.4	27.0	3.8
NAP11t-D13	01-Apr-12	16-Apr-12	15	1359.5 ± 0.7	4.1	--	--	--	--	--	--	423.5	2.0	0.4	1.1	0.6	32.6	0.0	6.9	6.2	5.9	19.9	6.2	0.7	0.3	18.1	3.3
NAP11t-D14	16-Apr-12	01-May-12	15	1359.4 ± 0.8	6.3	--	--	--	--	--	--	431.5	2.1	0.4	1.0	0.7	31.4	0.0	5.5	8.3	5.9	16.9	8.6	0.7	0.7	16.2	5.7
NAP11t-D15	01-May-12	16-May-12	15	1359.7 ± 0.4	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D16	16-May-12	31-May-12	15	1359.9 ± 0.9	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D17	31-May-12	15-Jun-12	15	1359.7 ± 1.2	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D18	15-Jun-12	30-Jun-12	15	1359.1 ± 1.0	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D19	30-Jun-12	15-Jul-12	15	1360.9 ± 2.5	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NAP11t-D20	10-Jul-12	20-Jul-12																									