

Table 1. Daily Al Fluxes at "Jacky" Station, Kerguelen Islands, During FLATOCOA Campaign

Sampling Begin d-1)	Sampling End	Al Deposition Flux Fe Averaged Deposition Flux (mug m-2 d-1)	Duplicat A (mug m-2 d-1)	Al Deposition Flux Co Averaged Deposition Flux (ng m-2 d-1)	Duplicat B (mug m-2 d-1)	Volume of Rain (mm d-1)
23/11/08	28/11/08	10 +/- 1	9.0 +/- 0.8	2.8 +/- 0.4	0.021 +/- 0.003	0.73
28/11/08	03/12/08	15 +/- 1	15 +/- 1	5.7 +/- 0.7	1.0 +/- 0.1	1.09
03/12/08	12/12/08	56 +/- 5	55 +/- 5	27 +/- 3	8.8 +/- 1.1	4.50
12/12/08	31/12/08	60 +/- 5	57 +/- 5	31 +/- 4	10 +/- 1	4.97
31/12/08	14/01/09	51 +/- 5	58 +/- 5	28 +/- 4	9.3 +/- 1.2	5.31
14/01/09	02/02/09	32 +/- 3	33 +/- 3	17 +/- 2	4.3 +/- 0.6	3.99
02/02/09	17/02/09	39 +/- 4	39 +/- 4	22 +/- 3	5.1 +/- 0.7	3.16
17/02/09	03/03/09	29 +/- 3	27 +/- 2	15 +/- 2	3.7 +/- 0.5	1.82
03/03/09	13/03/09	35 +/- 3	37 +/- 3	19 +/- 2	5.7 +/- 0.7	1.93
13/03/09	28/03/09	31 +/- 3	27 +/- 2	18 +/- 2	8.1 +/- 1.1	4.41
28/03/09	15/04/09	53 +/- 5	46 +/- 4	24 +/- 3	8.3 +/- 1.1	5.95
15/04/09	29/04/09	20 +/- 2	13 +/- 1	9.1 +/- 1.2	3.0 +/- 0.4	1.59
29/04/09	14/05/09	17 +/- 2	11 +/- 1	7.7 +/- 1.0	3.0 +/- 0.4	1.77
14/05/09	31/05/09	28 +/- 3	24 +/- 2	14 +/- 2	5.9 +/- 0.8	3.28
31/05/09	17/06/09	63 +/- 8		31 +/- 4	14 +/- 2	3.60
17/06/09	02/07/09	58 +/- 8		31 +/- 4	15 +/- 2	4.89
02/07/09	13/07/09	17 +/- 2		8.2 +/- 1.1	3.3 +/- 0.4	2.18
13/07/09	06/08/09	38 +/- 5		20 +/- 3	14 +/- 2	1.86
06/08/09	21/08/09	23 +/- 3		14 +/- 2	7.3 +/- 1.0	0.81
21/08/09	10/09/09	191 +/- 25		92 +/- 12	42 +/- 5	0.84
10/09/09	06/10/09	69 +/- 9		36 +/- 5	24 +/- 3	3.52
06/10/09	17/10/09	35 +/- 4		18 +/- 2	12 +/- 2	2.15
17/10/09	04/11/09	108 +/- 14		58 +/- 8	29 +/- 4	2.02
04/11/09	21/11/09	24 +/- 3		14 +/- 2	7.2 +/- 0.9	1.83
21/11/09	04/12/09	73 +/- 10		40 +/- 5	19 +/- 2	2.76
04/12/09	11/12/09	156 +/- 14	220 +/- 20	88 +/- 11	41 +/- 5	8.45
11/12/09	24/12/09	131 +/- 12	150 +/- 13	77 +/- 10	35 +/- 5	6.18
24/12/09	03/01/10	147 +/- 13	162 +/- 15	92 +/- 12	47 +/- 6	7.58
03/01/10	10/01/10	24 +/- 2	32 +/- 3	16 +/- 2	7.6 +/- 1.0	1.69
10/01/10	31/01/10	40 +/- 4	40 +/- 4	24 +/- 3	11 +/- 1	2.00
31/01/10	05/03/10	15 +/- 1	15 +/- 1	8.9 +/- 1.2	5.7 +/- 0.7	3.41
05/03/10	22/03/10	31 +/- 3	37 +/- 3	21 +/- 3	8.7 +/- 1.1	6.01
22/03/10	07/04/10	15 +/- 1	18 +/- 2	8.8 +/- 1.1	4.6 +/- 0.6	3.64

07/04/10	27/04/10	18 +/- 2	18 +/- 2	9.0 +/- 1.2	4.0 +/- 0.5	5.37
27/04/10	12/05/10	66 +/- 6	83 +/- 7	37 +/- 5	24 +/- 3	7.19
12/05/10	03/06/10	31 +/- 3	34 +/- 3	20 +/- 3	9.6 +/- 1.3	4.39
03/06/10	17/06/10	116 +/- 10	139 +/- 12	69 +/- 9	34 +/- 4	4.31
17/06/10	04/07/10	68 +/- 6	58 +/- 5	34 +/- 4	20 +/- 3	4.09
04/07/10	19/07/10	89 +/- 8	66 +/- 6	45 +/- 6	27 +/- 3	2.74
19/07/10	01/08/10	38 +/- 3	36 +/- 4	23 +/- 3	12 +/- 2	0.59
01/08/10	16/08/10	25 +/- 2	55 +/- 5	23 +/- 3	13 +/- 2	2.74
16/08/10	07/09/10	62 +/- 6	56 +/- 5	38 +/- 5	26 +/- 3	3.97
07/09/10	24/09/10	84 +/- 8	156 +/- 14	67 +/- 9	34 +/- 4	4.93
24/09/10	01/11/10	59 +/- 5	95 +/- 9	44 +/- 6	27 +/- 4	2.71
01/11/10	24/11/10	75 +/- 7	111 +/- 10	55 +/- 7	33 +/- 4	3.95
24/11/10	04/12/10	101 +/- 9	135 +/- 12	69 +/- 9	33 +/- 4	7.51
04/12/10	10/12/10	202 +/- 18	148 +/- 13	91 +/- 12	44 +/- 6	10.03
Mean +/- SD	54 +/- 42	48 +/- 39	28 +/- 22	14 +/- 12	3.5 +/- 2.0	

Table 2a. Aluminum Concentrations in Aerosols During the 1-Month KEFREN (2005)

Sample	Sampling Start	Sampling End	Al Concentration (ng m ⁻³)		Al Dry Deposition (μg m ⁻² d ⁻¹)
Kerj2	25/01/05	29/01/05	2.28 +/- 0.11	2.56	
Kerj3	29/01/05	02/02/05	0.68 +/- 0.03	0.76	
Kerj4	02/02/05	06/02/05	1.84 +/- 0.09	2.07	
Kerj6	06/02/05	08/02/05	1.54 +/- 0.08	1.73	
Kerj7	08/02/05	12/02/05	2.17 +/- 0.11	2.44	
Mean +/- SD			1.84 +/- 0.64	1.91 +/- 0.72	

Table 2b. Aluminum Concentrations in Aerosols During FLATOCOA Campaign (2009)

Sample	Sampling Start	Sampling End	Al Concentration (ng m ⁻³)		Al Dry Deposition (μg m ⁻² d ⁻¹)
z1	12/12/08	31/12/08	2.20 +/- 0.11	2.47	

Z2	31/12/08	14/01/09	5.41 +/- 0.27	6.08
Z3	14/01/09	02/02/09	0.90 +/- 0.05	1.02
Z4	02/02/09	17/02/09	2.12 +/- 0.11	2.39
Z5	17/02/09	03/03/09	0.50 +/- 0.03	0.56
Z6	03/03/09	13/03/09	0.96 +/- 0.05	1.08
Z7	13/03/09	28/03/09	0.32 +/- 0.02	0.36
Z8	28/03/09	15/04/09	0.44 +/- 0.02	0.50
Z9	15/04/09	29/04/09	1.07 +/- 0.05	1.20
Z20	29/04/09	14/05/09	2.70 +/- 0.14	3.03
Z21	14/05/09	31/05/09	4.98 +/- 0.25	5.60
Z23	17/06/09	02/07/09	4.29 +/- 0.22	4.82
Z24	02/07/09	13/07/09	1.96 +/- 0.09	2.09
Mean +/- SD			1.86 +/- 1.75	2.40 +/- 1.97