

Particle export during the Southern Ocean Iron Experiment (SOFeX)

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Web Appendix 2. South Patch particle summary.

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Location		Date (2002)	Time (hGMT)	Depth (m)	²³⁴ Th activity ± error (dpm L ⁻¹)		POC ± error (μmol L ⁻¹)		C:N >54 μm (molar)	POC:Th ± error >54 μm (μmol dpm ⁻¹)	POC:Th 1–54 μm (μmol dpm ⁻¹)	bSiO ₂ >54 μm (μmol L ⁻¹)	bSiO ₂ :Th >54 μm (μmol dpm ⁻¹)
Lat. (°S)	Lon. (°W)				>54 μm	1–54 μm	>54 μm	1–54 μm					
0–50 m IN													
66.34	171.96	29 Jan	2330	20	0.086±0.001	0.352±0.004	0.903±0.101	2.9	8.4	10.5±1.2	8.3	0.0751	0.87
66.25	171.96	04 Feb	0245	18	0.044±0.001	0.318±0.004	0.403±0.006	2.9	6.9	9.2±0.2	9.2	0.0284	0.65
66.20	172.09	09 Feb	0030	19	0.068±0.001	0.340±0.033	0.672±0.027	3.4	6.8	9.9±0.4	10.1	0.0344	0.51
66.10	172.07	11 Feb	0020	20	0.015±0.001	0.275±0.005	0.220±0.017	4.0	5.6	14.3±1.3	14.6	0.0284	1.84
66.00	172.08	14 Feb	2122	13	0.035±0.001	0.292±0.003	0.297±0.015	3.9	6.5	8.4±0.5	13.5	0.0218	0.62
65.95	172.19	15 Feb	0030	18	0.057±0.001	0.169±0.002	0.649±0.136	5.1	7.0	11.5±2.4	30.4	0.0647	1.14
66.91	171.97	15 Feb	0439	48	0.052±0.000	0.211±0.002	0.364±0.032	2.7	3.3	7.1±0.6	12.9	0.0550	1.06
65.90	172.22	17 Feb	0315	17	0.058±0.000	0.173±0.004	0.534±0.189	3.4	3.8	9.1±3.2	19.9	0.0300	0.51
65.90	172.15	19 Feb	0750	16	0.094±0.002	0.218±0.004	0.733±0.082	6.8	5.9	7.8±0.9	31.2	0.0552	0.59
65.90	172.15	19 Feb	1054	42	0.140±0.002	0.112±0.002	1.200±0.125	3.2	5.9	8.6±0.9	28.2		
65.85	171.95	20 Feb	2252	10	0.207±0.001	0.261±0.003	2.534±0.134	4.7	5.6	12.2±0.7	18.1	0.1986	0.96
50–100 m IN													
66.34	171.96	29 Jan	2330	55	0.349±0.002	0.519±0.005	1.566±0.201	2.4	7.0	4.5±0.6	4.6	0.1497	0.43
66.25	171.96	04 Feb	0245	66	0.007±0.000	0.214±0.003	0.038±0.010	0.8	bd	5.7±1.5	3.7	0.0013	0.19
66.20	172.09	09 Feb	0030	67	0.005±0.001	0.212±0.004	0.019±0.007*	0.7	bd	3.8±1.4	3.3	0.0026	0.50
66.10	172.07	11 Feb	0020	78	0.005±0.001	0.219±0.004	0.023±0.006*	0.8	bd	5.0±1.4	3.7	0.0027	0.59
66.00	172.08	14 Feb	2122	68	0.009±0.000	0.487±0.003	0.040±0.006	1.6	5.9	4.5±0.7	3.3	0.0039	0.44
65.95	172.19	15 Feb	0030	72	0.008±0.000	0.137±0.013	0.029±0.005	0.7	7.4	3.7±0.7	5.0	0.0049	0.61
65.90	172.22	17 Feb	0315	72	0.000±0.000	0.032±0.001	bd	bd	bd			0.0004	0.90
65.90	172.15	19 Feb	0750	71	0.036±0.001	0.160±0.001	0.108±0.006	1.6	7.6	3.0±0.1	9.7	0.0139	0.38
65.83	171.96	20 Feb	1942	72	0.074±0.001	0.286±0.002	0.404±0.084	1.8	6.5	5.4±1.1	6.3	0.0504	0.68
>100 m IN													
66.91	171.97	15 Feb	0439	123	0.007±0.000	0.173±0.002	0.027±0.005	0.4	5.9	4.2±0.8	2.2	0.0024	0.37
65.90	172.15	19 Feb	1054	117	0.005±0.000	0.045±0.001	0.011±0.002	0.2	bd	2.1±0.4	5.4	0.0021	0.41
65.85	171.95	20 Feb	2252	115	0.007±0.000	0.144±0.001	0.023±0.004	0.5	bd	3.3±0.6	3.1	0.0060	0.88
0–50 m OUT													
66.61	171.82	31 Jan	0820	20	0.093±0.001	0.527±0.005	0.446±0.012	2.3	7.1	4.8±0.1	4.4	0.0595	0.64
66.59	172.23	02 Feb	0311	20	0.144±0.002	0.411±0.004	0.745±0.089	2.4	6.3	5.2±0.6	5.9	0.0711	0.49
66.32	171.39	06 Feb	0030	19	0.015±0.000	0.526±0.004	0.051±0.008	2.4	4.3	3.4±0.5	4.5	0.0067	0.44
66.03	170.99	13 Feb	0105	19	0.031±0.001	0.569±0.005	0.152±0.022	2.3	7.9	4.9±0.7	4.1	0.0253	0.81
66.17	172.63	17 Feb	2315	17	0.151±0.001	0.277±0.005	0.973±0.041	2.0	5.6	6.4±0.3	7.1	0.0812	0.54
66.58	172.99	18 Feb	0455	14	0.063±0.001	0.122±0.002	0.494±0.102	1.5	3.7	7.9±1.6	12.5	0.0687	1.10
65.25	172.72	18 Feb	2330	16	0.010±0.000	0.098±0.002	0.151±0.023	1.7	6.0	15.4±2.4	17.1	0.0156	1.59
65.90	170.74	19 Feb	2347	16	0.098±0.001	0.221±0.004	0.517±0.018	1.6	6.3	5.3±0.2	7.3	0.0372	0.38
65.87	170.60	20 Feb	0240	47	0.167±0.001	0.444±0.006	0.969±0.039	2.9	6.3	5.8±0.2	6.6	0.1144	0.69
50–100 m OUT													
66.61	171.82	31 Jan	0820	68	0.023±0.001	0.291±0.004	0.131±0.006	1.0	5.2	5.6±0.3	3.5	0.0752	3.20
66.59	172.23	02 Feb	0311	53	0.186±0.002	0.490±0.005	0.972±0.038	2.5	7.6	5.2±0.2	5.2	0.0647	0.35
66.32	171.39	06 Feb	0030	82	0.002±0.000	0.153±0.003	bd	0.7	bd		4.3	0.0008	0.49
66.03	170.99	13 Feb	0105	77	0.012±0.001	0.206±0.003	0.065±0.010	0.9	6.4	5.4±0.9	4.4	0.0036	0.29
66.17	172.63	17 Feb	2315	72	0.013±0.000	0.313±0.005	0.131±0.004	1.8	6.7	9.9±0.4	5.8	0.0034	0.25
66.58	172.99	18 Feb	0455	69	0.044±0.000	0.330±0.005	0.141±0.023	1.2	7.1	3.2±0.5	3.7	0.0119	0.27
65.25	172.72	18 Feb	2330	71	0.007±0.000	0.263±0.003	0.052±0.012	1.1	6.9	7.4±1.7	4.3	0.0053	0.75
65.90	170.74	19 Feb	2357	71	0.093±0.001	0.372±0.005	0.423±0.090	1.8	6.7	4.5±1.0	4.9	0.0460	0.49
>100 m OUT													
65.87	170.60	20 Feb	0240	122	0.003±0.000	0.153±0.003	0.021±0.010	0.5	bd	6.2±2.9	3.4	0.0009	0.27

bd, below detection.
* POC blank >75%.