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Supplement of

Marine submicron aerosol gradients, sources and sinks

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Table S1. Measurement uncertainties of concentration profiles for individual chemical species.

ID sample	Height	NH4	NO3	WSON	WSOC	WIOC	Na	SO4	dma	dea	Oxa	MSA	Nss SO4
MH100408	3	6%	5%	92%	16%	11%	5%	5%	<DL	<DL	5%	5%	6%
MH100408	10	5%	5%	61%	13%	10%	5%	5%	<DL	<DL	5%	5%	6%
MH100408	30	5%	5%	55%	9%	9%	5%	5%	9%	15%	5%	5%	5%
MH240408	3	8%	5%	49%	10%	12%	5%	5%	<DL	<DL	5%	5%	6%
MH240408	10	5%	5%	27%	8%	10%	5%	5%	<DL	<DL	5%	5%	6%
MH240408	30	5%	29%	77%	6%	9%	5%	5%	9%	15%	5%	5%	5%
MH290408	3	29%	5%	<DL	49%	26%	5%	5%	<DL	<DL	<DL	5%	6%
MH290408	10	32%	5%	<DL	22%	29%	5%	5%	<DL	<DL	<DL	5%	6%
MH290408	30	13%	24%	10%	7%	15%	5%	5%	9%	15%	<DL	5%	5%
MH270508	3	5%	5%	<DL	8%	12%	5%	5%	<DL	<DL	5%	5%	6%
MH270508	10	5%	8%	41%	8%	10%	5%	5%	<DL	<DL	10%	5%	5%
MH270508	30	5%	<DL	125%	7%	10%	5%	5%	9%	15%	<DL	5%	5%
MH250608	3	20%	5%	34%	7%	15%	5%	5%	9%	<DL	5%	5%	7%
MH250608	10	5%	11%	77%	6%	11%	5%	5%	<DL	<DL	5%	5%	5%
MH250608	30	5%	<DL	<DL	5%	11%	5%	5%	9%	15%	<DL	5%	5%
MH300608	3	<DL	5%	<DL	22%	22%	5%	5%	<DL	<DL	5%	5%	6%
MH300608	10	<DL	5%	105%	19%	15%	5%	5%	<DL	<DL	5%	5%	6%
MH300608	30	7%	7%	15%	13%	13%	5%	5%	9%	15%	5%	5%	5%
MH140708	3	5%	32%	28%	6%	10%	5%	5%	9%	15%	5%	5%	5%
MH140708	10	5%	<DL	15%	5%	12%	5%	5%	<DL	<DL	5%	5%	5%
MH140708	30	5%	<DL	28%	5%	13%	5%	5%	9%	15%	5%	5%	5%
MH220808	3	5%	5%	23%	5%	19%	5%	5%	9%	15%	5%	5%	5%
MH220808	10	5%	5%	13%	5%	24%	5%	5%	<DL	<DL	5%	5%	5%
MH220808	30	5%	41%	63%	5%	21%	5%	5%	9%	15%	5%	5%	5%
MH080908	3	54%	5%	19%	11%	12%	5%	5%	<DL	15%	5%	5%	7%
MH080908	10	85%	5%	8%	7%	10%	5%	5%	<DL	<DL	5%	5%	6%
MH080908	30	5%	5%	18%	8%	12%	5%	5%	9%	15%	5%	5%	6%
MH011008	3	5%	8%	9780%	29%	14%	5%	5%	<DL	15%	<DL	5%	9%
MH011008	10	5%	5%	<DL	18%	11%	5%	5%	<DL	<DL	5%	5%	7%
MH011008	30	5%	10%	28%	15%	12%	5%	5%	9%	15%	22%	5%	7%
MH111208	3	17%	8%	<DL	38%	13%	5%	5%	<DL	<DL	7%	27%	9%
MH111208	10	<DL	5%	45%	15%	11%	5%	5%	<DL	<DL	6%	12%	7%
MH111208	30	5%	10%	<DL	14%	23%	5%	5%	9%	15%	8%	22%	6%
MH140109	3	23%	5%	<DL	23%	15%	5%	5%	<DL	<DL	10%	<DL	21%
MH140109	10	<DL	8%	<DL	13%	14%	5%	5%	9%	15%	11%	<DL	16%
MH140109	30	<DL	7%	52%	11%	25%	5%	5%	9%	15%	<DL	<DL	13%
MH250209	3	5%	5%	100%	10%	12%	5%	5%	<DL	<DL	5%	5%	7%
MH250209	10	5%	5%	12%	5%	14%	5%	5%	<DL	<DL	6%	5%	6%
MH250209	30	5%	5%	678%	8%	13%	5%	5%	9%	15%	5%	5%	6%
MH040309	3	5%	5%	<DL	<DL	5%	5%	5%	<DL	<DL	7%	5%	14%
MH040309	10	5%	5%	<DL	24%	13%	5%	5%	<DL	<DL	<DL	5%	12%
MH040309	30	6%	6%	40%	26%	17%	5%	5%	9%	15%	<DL	6%	7%
MH050509	3	5%	5%	33%	10%	11%	5%	5%	<DL	<DL	16%	5%	6%
MH050509	10	5%	5%	10%	6%	13%	5%	5%	<DL	<DL	9%	5%	6%
MH050509	30	5%	12%	23%	6%	19%	5%	5%	9%	15%	8%	5%	5%