

		DJF	MAM	JJA	SON
UT	anth_AS	44.95	35.35	33.61	42.70
	anth_NA	31.94	17.02	16.56	26.44
	anth_EU	17.05	14.88	14.70	16.12
	Total Anth	93.94	67.26	64.86	85.25
	fire_AS	3.95	29.43	27.78	4.38
	fire_NA	1.67	1.26	4.16	3.59
	fire_EU	0.44	2.06	3.20	6.78
	Total Fire	6.06	32.74	35.14	14.75
MT	anth_AS	31.39	26.19	25.03	29.19
	anth_NA	26.86	15.81	15.83	23.35
	anth_EU	37.60	25.19	16.43	29.63
	Total Anth	95.86	67.19	57.29	82.17
	fire_AS	1.95	28.07	31.86	5.55
	fire_NA	1.60	1.00	7.01	4.09
	fire_EU	0.60	3.74	3.85	8.18
	Total Fire	4.14	32.81	42.71	17.83
LT	anth_AS	25.66	24.08	24.40	24.05
	anth_NA	18.54	16.13	15.41	18.80
	anth_EU	52.39	31.75	16.97	38.07
	Total Anth	96.58	71.97	56.77	80.93
	fire_AS	1.29	23.41	32.64	6.70
	fire_NA	1.42	0.87	7.64	4.21
	fire_EU	0.70	3.75	2.95	8.17
	Total Fire	3.42	28.03	43.23	19.07

Table S2

Multi-model mean fractional contribution of biomass burning and anthropogenic emissions from Europe, North America and Asia to the Arctic. Calculated from the 25-day fixed lifetime tracers above 66N.