



Supplement of

Tower- and drone-based BVOC observations in a suburban Tokyo forest: methodological insights and MEGAN comparison

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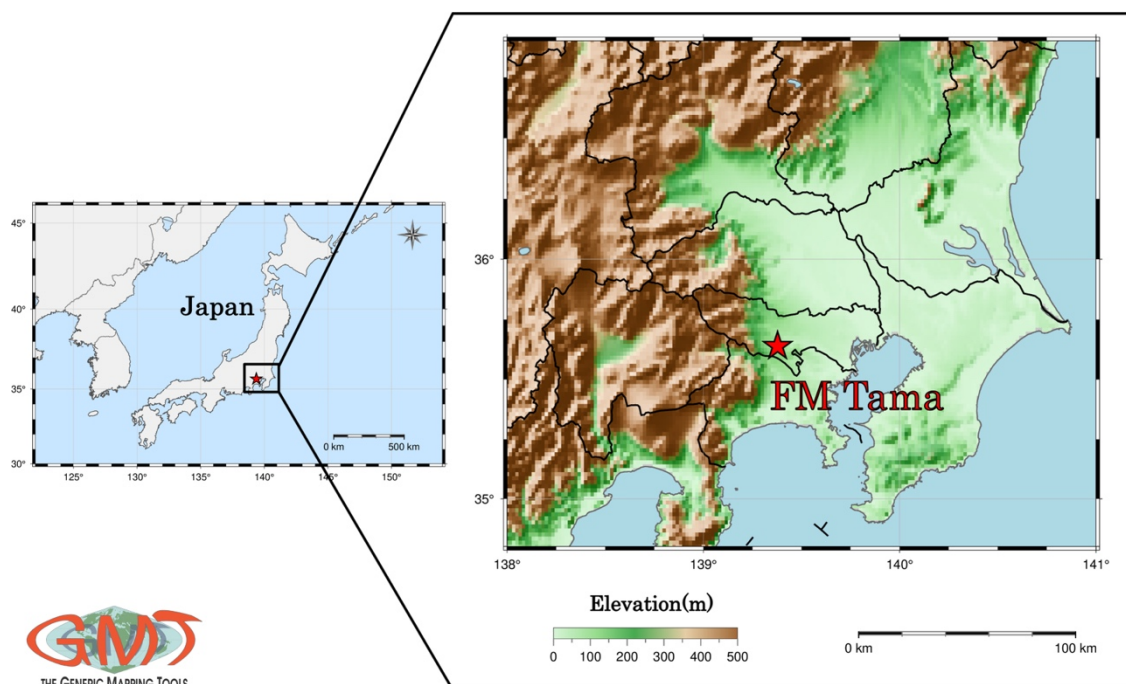


Figure S1: Location of the Tokyo University of Agriculture and Technology Field Museum Tamakyuryo (FM Tama).

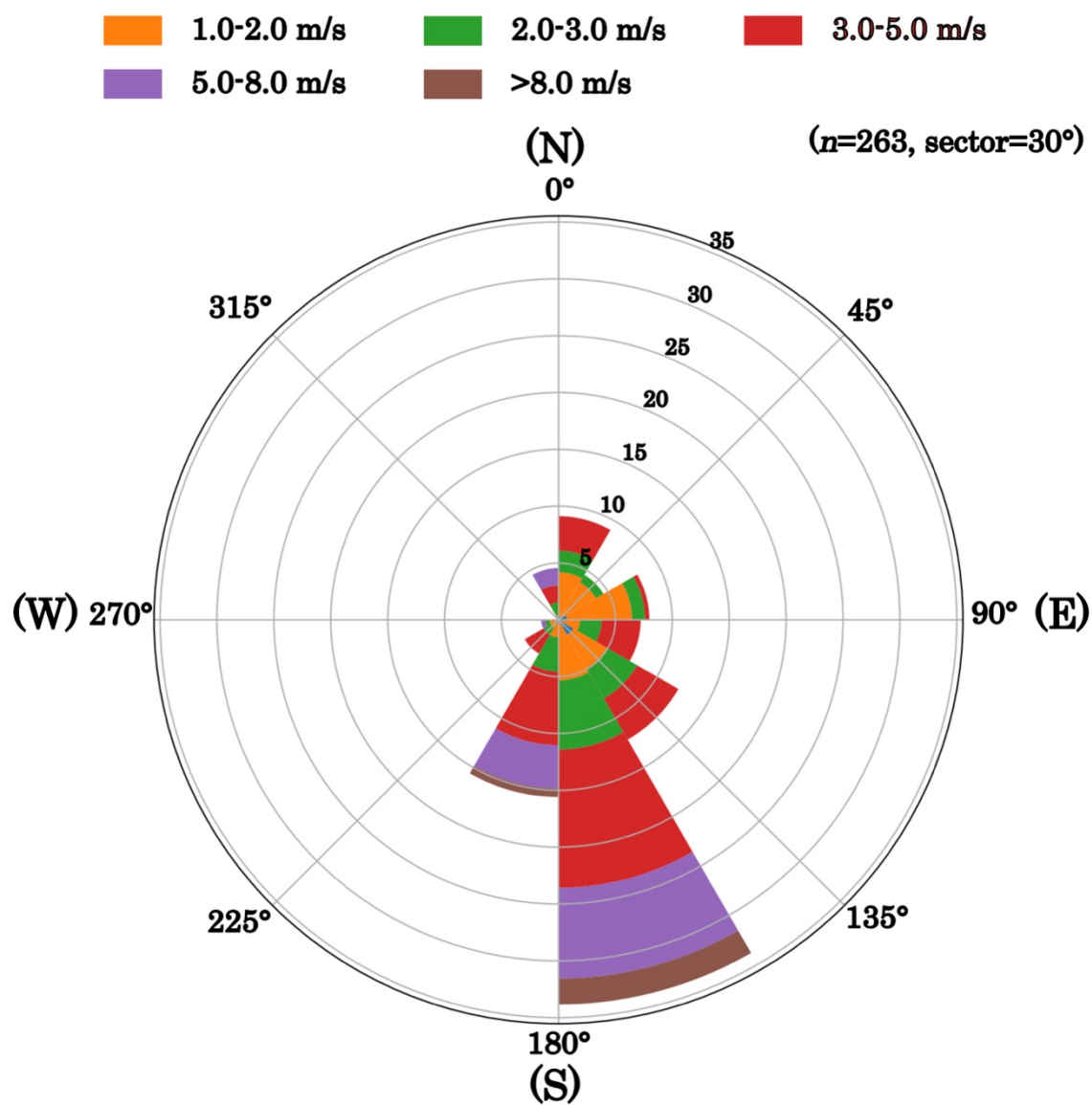


Figure S2: Wind rose during the BVOC sampling periods from June 2023 to October 2025.

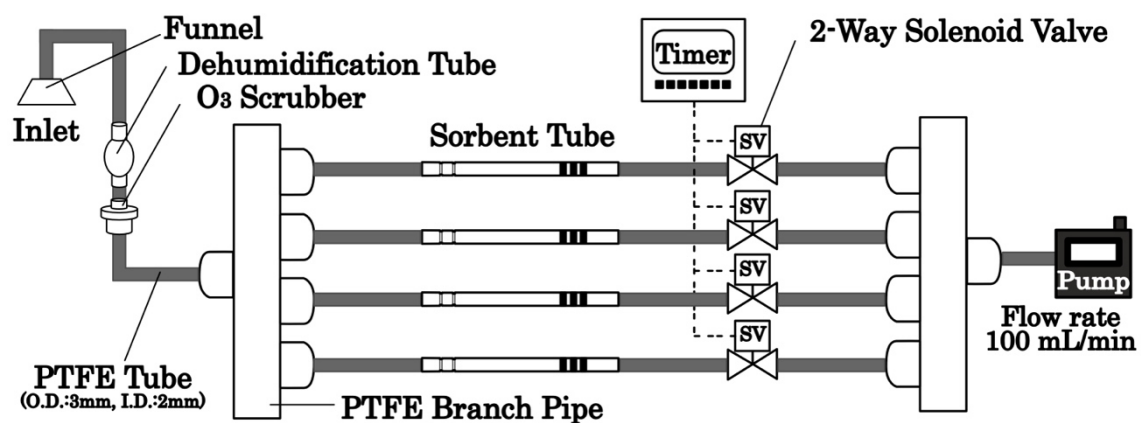


Figure S3: Schematic diagram of the in-house BVOC sampling device used for tower-based measurements.

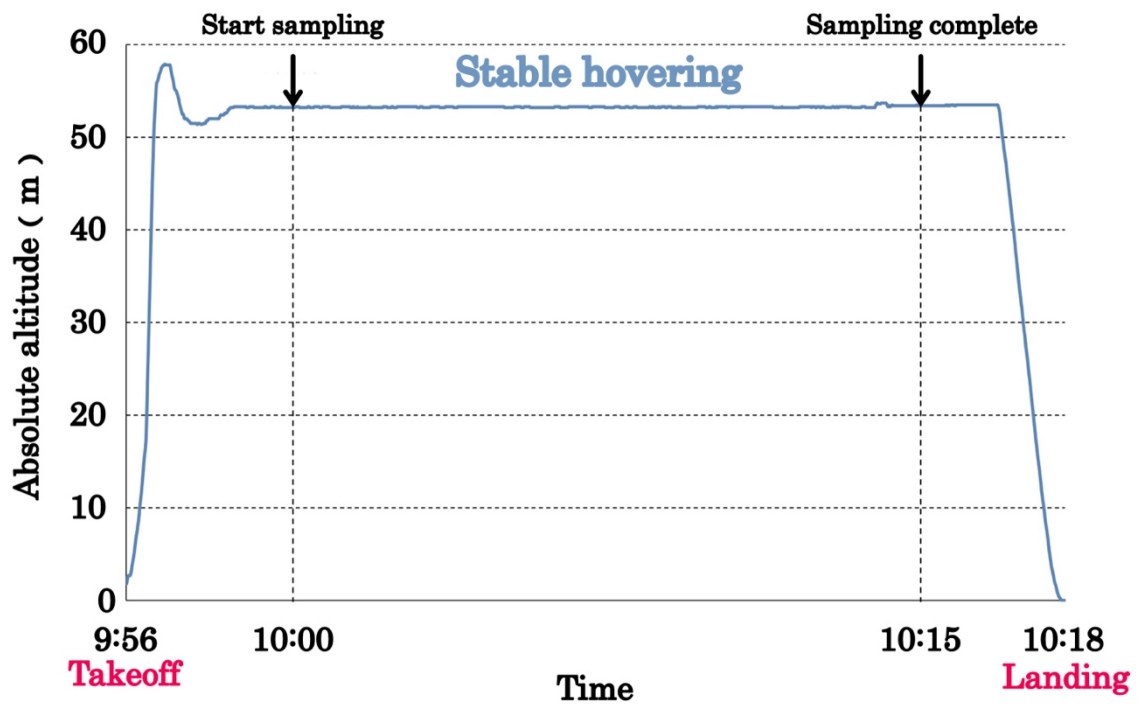


Figure S4: Time series of drone flight altitude during hovering observations. The altitude data indicate the stability of the drone during sampling.

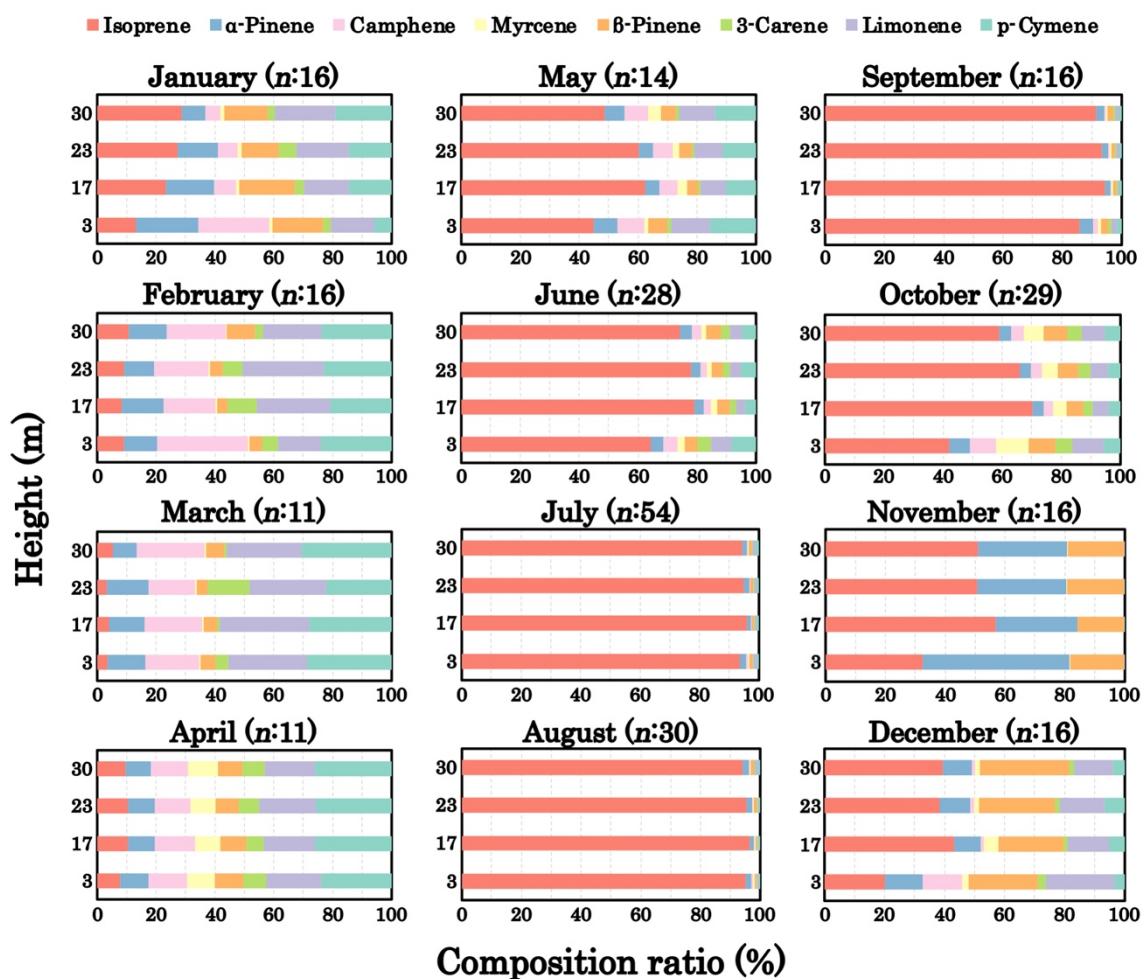


Figure S5: Monthly average composition ratios (%) of the eight target BVOC species at each sampling height during the intermittent sampling campaign. Ratios were calculated from available daytime samples collected on the observation days.

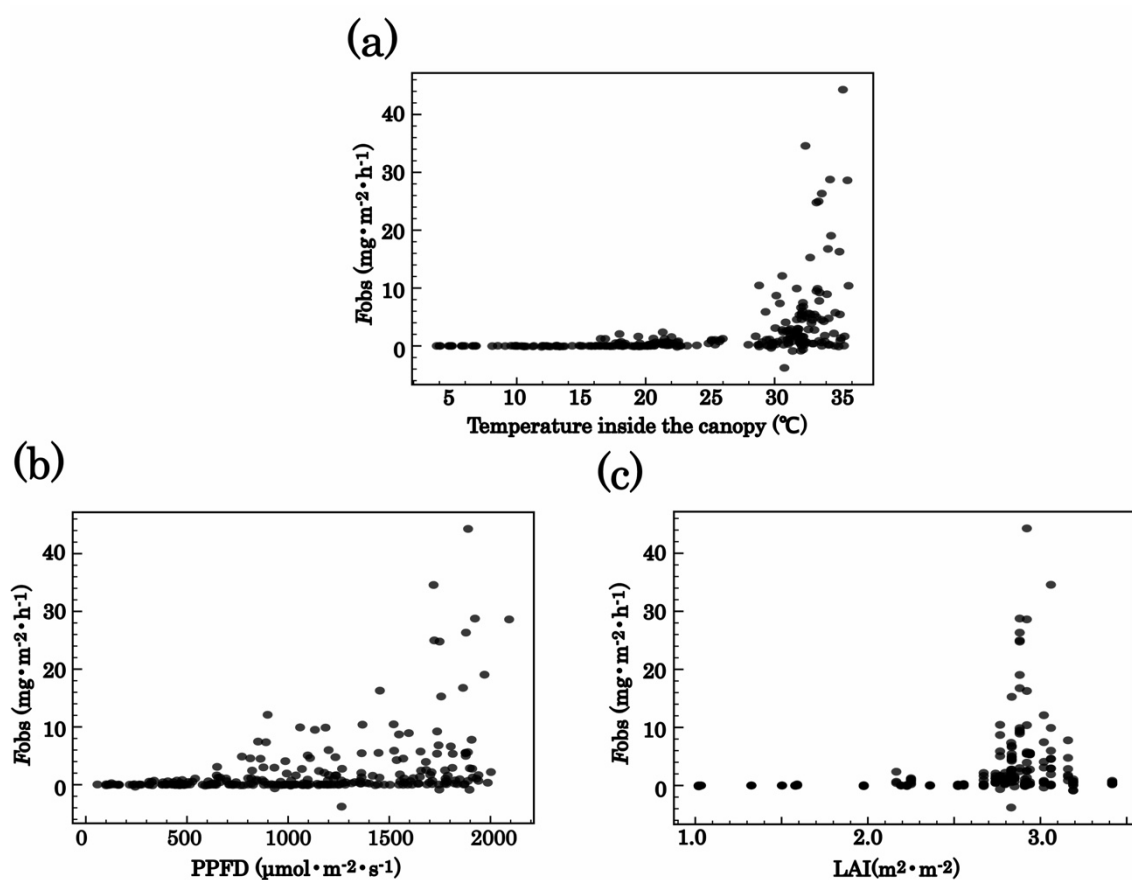


Figure S6: Relationships between tower-based isoprene emission flux and environmental variables: (a) Canopy temperature, (b) PPFD, and (c) LAI. Data represent unaveraged daytime observations during the intermittent sampling campaign.

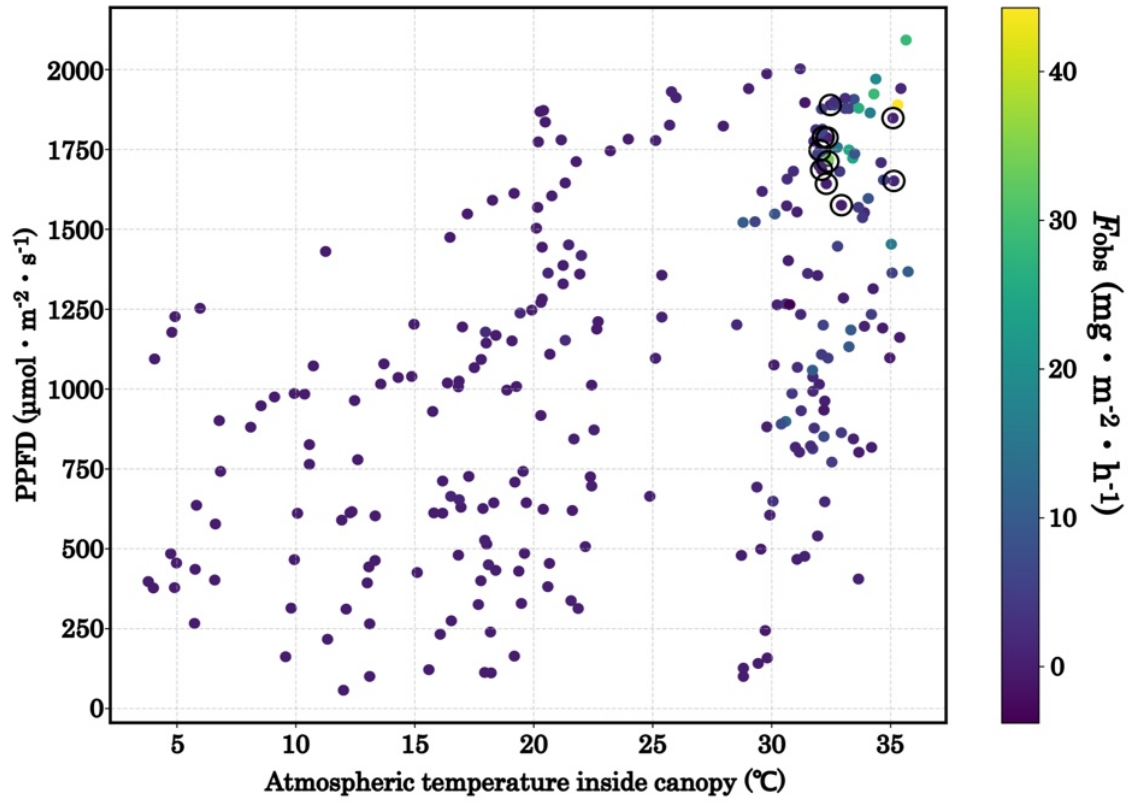


Figure S7: Three-dimensional scatter plot of tower-based isoprene emission flux (F_{obs} , z-axis), canopy temperature (x-axis), and PPFD (y-axis). Data represent unaveraged daytime observations during the intermittent sampling campaign. The black-circled plots indicate L- F_{obs} where both temperature and PPFD exceeded their respective 75th percentile values, yet F_{obs} fell below the 25th percentile value for that subset.

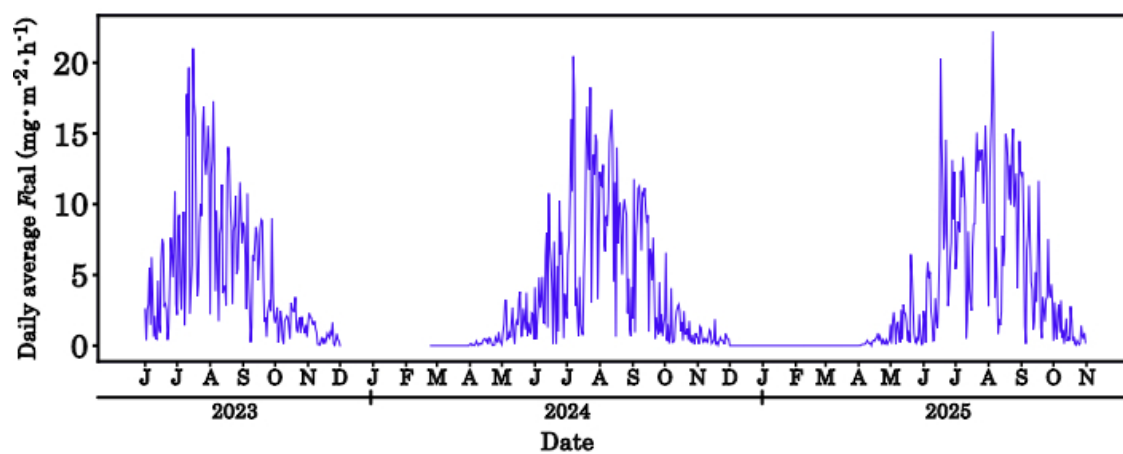


Figure S8: Daily average MEGAN-calculated isoprene fluxes during the model calculation period from June 1, 2023 to October 31, 2025. Daily averages were calculated from 10 min model outputs for the daytime sampling window between 10:00 and 16:00 JST.

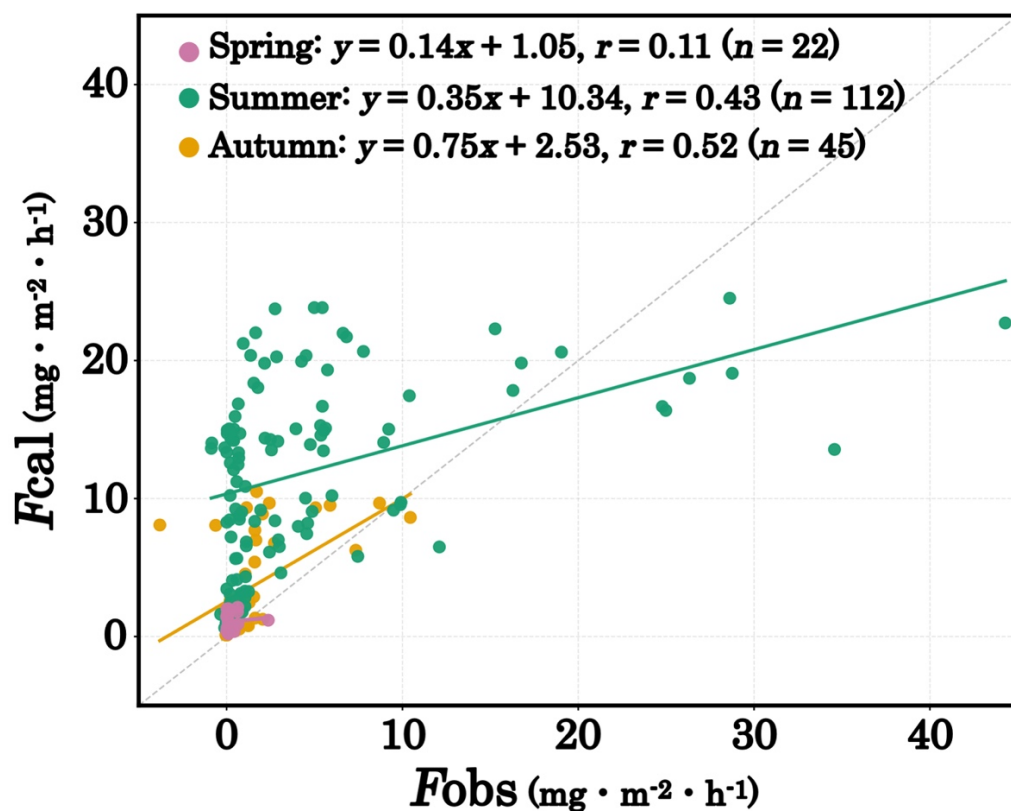


Figure S9: Seasonal comparison between observed tower-based isoprene fluxes (F_{obs}) and MEGAN-calculated fluxes (F_{cal}) using time-synchronized paired data from April to October. Pink, green, and orange circles indicate spring, summer, and autumn data, respectively. The dashed line indicates the 1:1 relationship, and colored lines indicate seasonal linear regressions.

Table S1 Observation dates, sampling schedules, sampling durations, number of samples, and representative meteorological conditions at FM Tama during the intermittent sampling campaign.

Observation dates	Sampling schedules (JST)	Sampling durations (min)	Number of samples per height
June 29, 2023	10:00–12:00, 14:00–16:00	30	8
July 18, 2023	10:00–12:00, 14:00–16:00	30	8
July 28, 2023	10:00–10:15, 11:00–11:15, 12:00–12:15, 14:00–14:15, 15:00–15:15	15	5
July 31, 2023	10:00–11:30, 14:00–15:30	30	6
August 5, 2023	10:00–12:00, 14:00–16:00	30	8
September 28, 2023	10:00–12:00, 14:00–16:00	30	8
October 12, 2023	10:00–10:15, 11:00–11:15, 12:00–12:15, 14:00–14:15, 15:00–15:15, 16:00–16:15	15	6
October 24, 2023	10:00–12:00, 14:00–16:00	30	8
November 30, 2023	10:00–12:00, 14:00–16:00	30	8
December 26, 2023 ¹⁾	10:00–12:00, 14:00–16:00	30	8
January 18, 2024 ¹⁾	10:00–12:00, 14:00–16:00	30	8
February 15, 2024 ¹⁾	10:00–12:00, 14:00–16:00	30	8
March 13, 2024	10:00–12:00, 14:00–16:00	30	8
April 15, 2024	10:00–12:00, 14:00–16:00	30	8
May 10, 2024	10:00–12:00, 14:00–16:00	30	8
June 11, 2024	10:00–12:00, 14:00–16:00	30	8
July 9, 2024	10:00–12:00, 14:00–16:00	30	8
July 23, 2024	10:00–10:15, 11:00–11:15, 12:00–12:15, 14:00–14:15, 15:00–15:15, 16:00–16:15	15	6
August, 6, 2024	10:00–10:30, 11:00–11:30, 12:00–12:30, 14:00–14:30, 15:00–15:30, 16:00–16:30	30	6
October 10, 2024	10:00–12:00, 14:00–16:00	30	8
November 12, 2024	10:00–12:00, 14:00–16:00	30	8
December 4, 2024	10:00–12:00, 14:00–16:00	30	8
January 16, 2025	10:00–12:00, 14:00–16:00	30	8

February 6, 2025	10:00–12:00, 14:00–16:00	30	8
March 27, 2025	10:00–16:00	120	3
April 16, 2025	10:00–16:00	120	3
May 7, 2025	10:00–16:00	120	3
May 29, 2025	10:00–16:00	120	3
July 7, 2025	10:00–12:00, 14:00–16:00	30	8
July 29, 2025	10:00–10:17, 11:00–11:17, 12:00–12:17, 14:00–14:17, 15:00–15:17, 16:00–16:17	17	6
August 6, 2025	10:00–12:00, 14:00–16:00	30	8
August 19, 2025	10:00–12:00, 13:00–15:00	30	8
September 9, 2025	10:00–12:00, 13:00–15:00	30	8
October, 28, 2025	10:00–12:00, 13:00–15:00	30	8

Table S1 (Continued)

Observation dates	Atmos. Temp. (°C)			PPFD ($\mu\text{mol m}^{-2} \text{s}^{-1}$)			Relative Humidity (%)		
	Ave.	$\pm$	SD ²⁾	Ave.	$\pm$	SD ²⁾	Ave.	$\pm$	SD ²⁾
June 29, 2023	30.0	$\pm$	1.2	1456	$\pm$	615	58.4	$\pm$	3.9
July 18, 2023	34.1	$\pm$	0.5	1417	$\pm$	541	48.6	$\pm$	2.5
July 28, 2023	30.6	$\pm$	0.8	1650	$\pm$	272	63.0	$\pm$	2.8
July 31, 2023	31.7	$\pm$	0.3	1534	$\pm$	509	57.6	$\pm$	2.1
August 5, 2023	30.2	$\pm$	0.6	913	$\pm$	419	65.7	$\pm$	3.1
September 28, 2023	29.9	$\pm$	1.8	1219	$\pm$	363	63.7	$\pm$	6.8
October 12, 2023	20.8	$\pm$	0.7	1079	$\pm$	455	51.0	$\pm$	3.5
October 24, 2023	20.8	$\pm$	0.8	1040	$\pm$	355	49.0	$\pm$	5.0
November 30, 2023	13.5	$\pm$	1.3	734	$\pm$	351	40.1	$\pm$	5.8
December 26, 2023 ¹⁾	11.4	$\pm$	0.7	No Data			No Data		
January 18, 2024 ¹⁾	13.3	$\pm$	0.2	No Data			No Data		
February 15, 2024 ¹⁾	18.8	$\pm$	1.3	No Data			No Data		
March 13, 2024	11.4	$\pm$	0.7	1290	$\pm$	309	26.8	$\pm$	3.2
April 15, 2024	22.1	$\pm$	0.7	1391	$\pm$	385	39.6	$\pm$	3.2
May 10, 2024	19.9	$\pm$	0.3	1582	$\pm$	316	28.5	$\pm$	5.0
June 11, 2024	25.0	$\pm$	0.3	1474	$\pm$	421	61.4	$\pm$	2.2
July 9, 2024	29.7	$\pm$	0.5	430	$\pm$	248	65.1	$\pm$	3.4
July 23, 2024	32.8	$\pm$	0.7	1655	$\pm$	281	59.8	$\pm$	2.9
August, 6, 2024	30.6	$\pm$	1.0	980	$\pm$	417	67.3	$\pm$	5.1
October 10, 2024	18.2	$\pm$	0.4	448	$\pm$	288	72.9	$\pm$	1.6
November 12, 2024	18.6	$\pm$	0.8	827	$\pm$	339	63.5	$\pm$	2.2
December 4, 2024	15.7	$\pm$	0.4	739	$\pm$	309	41.4	$\pm$	3.1
January 16, 2025	4.5	$\pm$	0.7	390	$\pm$	147	40.7	$\pm$	2.1
February 6, 2025	6.1	$\pm$	1.0	988	$\pm$	327	23.2	$\pm$	2.9
March 27, 2025	19.1	$\pm$	1.3	1195	$\pm$	422	58.9	$\pm$	4.8
April 16, 2025	17.2	$\pm$	1.2	1507	$\pm$	318	30.2	$\pm$	3.5
May 7, 2025	19.9	$\pm$	0.7	1376	$\pm$	551	41.1	$\pm$	2.1
May 29, 2025	20.9	$\pm$	4.9	793	$\pm$	364	55.5	$\pm$	13.2
July 7, 2025	31.6	$\pm$	0.4	1247	$\pm$	453	60.2	$\pm$	2.7
July 29, 2025	33.3	$\pm$	0.8	1638	$\pm$	373	49.8	$\pm$	3.5
August 6, 2025	34.8	$\pm$	0.5	1380	$\pm$	451	53.5	$\pm$	2.3
August 19, 2025	31.9	$\pm$	0.8	1512	$\pm$	297	59.5	$\pm$	2.9
September 9, 2025	30.4	$\pm$	0.6	1176	$\pm$	397	67.0	$\pm$	2.0

October, 28, 2025	17.6	±	0.8	694	±	372	46.0	±	2.8
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1) Due to equipment maintenance at the FM Tana, data acquisition was not possible; therefore, data from the nearest Hachioji air quality monitoring station was used.

2) Calculated from data at 10:00–16:00 at 25–30m on the flux tower, except for the period from December 2023 to February 2024.

Table S1 (Continued)

Observation dates	Wind Direction (degree)			Wind Velocity (m s ⁻¹)		
	Min	–	Max ²⁾	Ave.	±	SD ²⁾
June 29, 2023	55	–	220	1.6	±	0.5
July 18, 2023	3	–	349	2.2	±	1.5
July 28, 2023	117	–	203	4.8	±	1.5
July 31, 2023	154	–	203	4.3	±	0.8
August 5, 2023	32	–	303	2.0	±	1.4
September 28, 2023	2	–	194	1.6	±	0.7
October 12, 2023	8	–	357	1.2	±	0.3
October 24, 2023	5	–	357	1.1	±	0.3
November 30, 2023	14	–	354	1.4	±	0.7
December 26, 2023 ¹⁾	180	–	203	6.1	±	1.4
January 18, 2024 ¹⁾	203	–	360	2.2	±	1.1
February 15, 2024 ¹⁾	158	–	180	7.4	±	2.5
March 13, 2024	0	–	2	5.6	±	1.2
April 15, 2024	118	–	189	4.4	±	1.6
May 10, 2024	159	–	185	7.2	±	1.4
June 11, 2024	147	–	183	5.7	±	0.8
July 9, 2024	157	–	272	2.8	±	1.3
July 23, 2024	125	–	215	3.0	±	0.6
August, 6, 2024	13	–	179	4.5	±	1.8
October 10, 2024	3	–	359	3.0	±	0.4
November 12, 2024	29	–	172	3.2	±	0.9
December 4, 2024	1	–	359	2.8	±	0.6
January 16, 2025	37	–	171	2.4	±	0.8
February 6, 2025	21	–	321	3.5	±	0.9
March 27, 2025	105	–	191	4.8	±	2.2
April 16, 2025	67	–	184	4.5	±	1.4
May 7, 2025	0	–	0	4.2	±	0.6
May 29, 2025	116	–	203	3.3	±	1.1
July 7, 2025	88	–	240	2.9	±	1.3
July 29, 2025	4	–	183	2.9	±	1.4
August 6, 2025	25	–	253	3.0	±	1.2
August 19, 2025	124	–	210	3.2	±	0.7
September 9, 2025	120	–	187	3.5	±	1.5

October, 28, 2025 2 – 119 1.7 ± 0.5

1) Due to equipment maintenance at the FM Tana, data acquisition was not possible; therefore, data from the nearest Hachioji air quality monitoring station was used.

2) Calculated from data at 10:00–16:00 at 25–30m on the flux tower, except for the period from December 2023 to February 2024.

Table S2 Monthly fractions of *Q. serrata* leaves assigned to each leaf age class for the MEGAN leaf age activity factor γ_{age} .

	F_{new}	F_{gro}	F_{mat}	F_{old}
January ¹⁾	0	0	0	0
February ¹⁾	0	0	0	0
March ¹⁾	0	0	0	0
April	0.8	0.2	0	0
May	0.2	0.6	0.2	0
June	0.05	0.1	0.8	0.05
July	0.05	0.1	0.8	0.05
August	0.05	0.1	0.8	0.05
September	0	0	0.5	0.5
October	0	0	0.2	0.8
November	0	0	0	1.0
December ¹⁾	0	0	0	0

1) From December to March, all F values for the *Q. serrata* were set to 0.

Table S3 Monthly average $\pm$ standard deviation of volume mixing ratios (pptv) of the eight target BVOC species at each sampling height during the intermittent sampling campaign.

Values are based on available daytime samples collected on the observation days.

Year	Month	Isoprene			
		3m	17m	23m	30m
2023	6	238.38 $\pm$	434.81 $\pm$	490.14 $\pm$	286.55 $\pm$
		185.43	168.43	195.22	123.22
2023	7	483.76 $\pm$	577.20 $\pm$	422.05 $\pm$	354.61 $\pm$
		575.44	417.32	286.21	272.60
2023	8	1300.18 $\pm$	1709.98 $\pm$	1273.13 $\pm$	812.35 $\pm$
		918.60	905.84	958.74	604.17
2023	9	722.23 $\pm$	3207.39 $\pm$	2519.90 $\pm$	1875.64 $\pm$
		314.45	813.95	624.14	336.77
2023	10	223.08 $\pm$	657.55 $\pm$	490.52 $\pm$	381.50 $\pm$
		188.65	233.06	146.93	128.21
2023	11	42.13 $\pm$ 10.36	60.00 $\pm$ 16.95	58.17 $\pm$ 13.17	56.64 $\pm$ 18.10
2023	12	26.70 $\pm$ 4.50	34.53 $\pm$ 4.67	33.42 $\pm$ 5.88	33.17 $\pm$ 6.73
2024	1	33.34 $\pm$ 4.08	48.95 $\pm$ 3.71	50.73 $\pm$ 7.04	58.30 $\pm$ 7.73
2024	2	58.01 $\pm$ 5.22	69.06 $\pm$ 7.28	69.85 $\pm$ 7.43	73.20 $\pm$ 8.80
2024	3	7.53 $\pm$ 0.00	7.57 $\pm$ 0.00	7.57 $\pm$ 0.00	9.05 $\pm$ 4.15
2024	4	41.45 $\pm$ 20.33	61.75 $\pm$ 7.33	69.91 $\pm$ 8.16	59.54 $\pm$ 5.76
2024	5	95.73 $\pm$ 15.46	307.39 $\pm$	282.31 $\pm$	207.76 $\pm$
			56.88	83.35	49.88
2024	6	157.68 $\pm$	1108.39 $\pm$	842.76 $\pm$	717.05 $\pm$
		62.49	207.80	128.64	130.31
2024	7	2559.92 $\pm$	4853.63 $\pm$	3951.22 $\pm$	3500.60 $\pm$
		2391.70	2075.52	1496.68	1199.65
2024	8	600.42 $\pm$	5238.79 $\pm$	4731.94 $\pm$	3736.01 $\pm$
		351.95	4374.38	2908.62	2281.77
2024	10	90.73 $\pm$ 32.08	371.52 $\pm$	246.63 $\pm$	228.58 $\pm$
			251.98	67.72	59.35
2024	11	26.47 $\pm$ 0.01	155.50 $\pm$	119.39 $\pm$	120.12 $\pm$
			57.71	51.49	39.62
2024	12	19.44 $\pm$ 7.50	64.38 $\pm$ 68.06	43.35 $\pm$ 34.11	49.39 $\pm$ 40.52
2025	1	12.44 $\pm$ 0.11	12.48 $\pm$ 0.00	12.44 $\pm$ 0.02	12.41 $\pm$ 0.02
2025	2	9.28 $\pm$ 0.08	9.31 $\pm$ 0.00	9.28 $\pm$ 0.02	9.26 $\pm$ 0.02

2025	3	—	14.98 ± 2.19	15.84 ± 1.81	15.92 ± 4.54
2025	4	10.25 ± 1.06	5.80 ± 2.20	8.84 ± 1.42	9.24 ± 0.27
2025	5	303.18 ± 176.95	493.72 ± 403.34	420.66 ± 354.51	237.41 ± 189.50
2025	6	—	2378.77 ± 156.31	2751.83 ± 507.54	1833.25 ± 407.17
2025	7	3645.59 ± 1919.80	6153.50 ± 3076.98	6158.52 ± 3436.32	3830.98 ± 2146.78
2025	8	5793.55 ± 3120.28	5417.79 ± 3867.36	4577.75 ± 3663.17	3146.94 ± 2193.11
2025	9	1523.18 ± 359.55	2885.47 ± 733.61	2374.11 ± 870.87	1944.96 ± 735.80
2025	10	180.34 ± 33.64	583.05 ± 156.92	543.68 ± 86.84	279.68 ± 104.28

—: No data

Table S3 (Continued)

Year	Month	α -Pinene			
		3m	17m	23m	30m
2023	6	2.54 $\pm$ 0.90	2.23 $\pm$ 0.01	2.22 $\pm$ 0.00	2.58 $\pm$ 1.02
2023	7	45.39 $\pm$ 51.74	37.66 $\pm$ 49.95	57.38 $\pm$ 57.33	23.74 $\pm$ 44.15
2023	8	118.64 $\pm$ 8.55	119.81 $\pm$ 4.52	125.49 $\pm$ 3.72	116.76 $\pm$ 3.98
2023	9	68.02 $\pm$ 5.05	66.49 $\pm$ 2.10	58.60 $\pm$ 23.47	67.81 $\pm$ 6.15
2023	10	49.10 $\pm$ 72.00	36.78 $\pm$ 31.46	31.43 $\pm$ 34.01	28.69 $\pm$ 34.84
2023	11	0.08 $\pm$ 0.06	0.10 $\pm$ 0.07	0.06 $\pm$ 0.04	0.05 $\pm$ 0.00
2023	12	11.15 $\pm$ 25.27	2.22 $\pm$ 0.00	2.21 $\pm$ 0.00	2.24 $\pm$ 0.00
2024	1	56.85 $\pm$ 45.25	24.73 $\pm$ 41.71	13.85 $\pm$ 32.87	2.24 $\pm$ 0.01
2024	2	48.59 $\pm$ 49.58	98.60 $\pm$ 2.02	50.58 $\pm$ 51.68	62.80 $\pm$ 50.20
2024	3	29.69 $\pm$ 38.32	38.92 $\pm$ 39.54	57.44 $\pm$ 34.27	20.59 $\pm$ 34.54
2024	4	47.84 $\pm$ 19.92	53.23 $\pm$ 15.29	61.84 $\pm$ 7.82	52.09 $\pm$ 14.64
2024	5	33.27 $\pm$ 19.28	43.23 $\pm$ 3.91	37.87 $\pm$ 15.12	44.21 $\pm$ 5.66
2024	6	23.57 $\pm$ 7.74	35.67 $\pm$ 4.82	34.39 $\pm$ 7.70	31.71 $\pm$ 3.87
2024	7	39.13 $\pm$ 17.39	77.32 $\pm$ 37.24	69.57 $\pm$ 23.24	64.21 $\pm$ 23.59
2024	8	9.21 $\pm$ 7.31	35.75 $\pm$ 15.44	34.60 $\pm$ 12.72	26.99 $\pm$ 10.57
2024	10	13.01 $\pm$ 0.01	29.13 $\pm$ 31.11	16.85 $\pm$ 7.26	13.01 $\pm$ 0.01
2024	11	103.74 $\pm$ 0.05	103.52 $\pm$ 0.00	104.04 $\pm$ 0.00	103.78 $\pm$ 0.19
2024	12	18.00 $\pm$ 0.00	17.97 $\pm$ 0.00	17.97 $\pm$ 0.00	17.97 $\pm$ 0.00
2025	1	18.02 $\pm$ 0.15	18.07 $\pm$ 0.00	18.01 $\pm$ 0.03	17.97 $\pm$ 0.03
2025	2	36.42 $\pm$ 0.31	36.53 $\pm$ 0.00	36.41 $\pm$ 0.07	36.32 $\pm$ 0.06
2025	3	—	6.15 $\pm$ 0.00	6.12 $\pm$ 0.00	6.14 $\pm$ 0.00
2025	4	17.26 $\pm$ 7.22	6.34 $\pm$ 0.00	8.47 $\pm$ 3.72	8.54 $\pm$ 3.84
2025	5	32.58 $\pm$ 32.26	13.51 $\pm$ 9.77	14.61 $\pm$ 11.00	12.37 $\pm$ 8.53
2025	6	—	117.78 $\pm$ 40.47	124.51 $\pm$ 41.21	115.36 $\pm$ 40.92
2025	7	54.46 $\pm$ 28.32	61.97 $\pm$ 12.97	69.64 $\pm$ 12.34	54.72 $\pm$ 11.87
2025	8	33.70 $\pm$ 21.45	44.61 $\pm$ 11.54	61.72 $\pm$ 17.17	46.77 $\pm$ 14.00
2025	9	48.13 $\pm$ 12.73	56.42 $\pm$ 13.74	63.14 $\pm$ 13.20	43.68 $\pm$ 3.89
2025	10	26.80 $\pm$ 9.54	20.25 $\pm$ 10.01	21.12 $\pm$ 7.08	20.11 $\pm$ 11.94

—: No data

Table S3 (Continued)

Year	Month	Camphene			
		3m	17m	23m	30m
2023	6	9.93 ± 19.54	1.24 ± 0.00	1.24 ± 0.00	1.24 ± 0.00
2023	7	20.42 ± 41.43	4.26 ± 3.27	3.20 ± 2.50	3.79 ± 2.70
2023	8	38.79 ± 49.60	9.52 ± 10.34	3.28 ± 2.24	1.48 ± 0.69
2023	9	18.15 ± 29.58	1.62 ± 1.09	1.24 ± 0.00	1.24 ± 0.00
2023	10	65.09 ± 67.56	42.15 ± 23.96	39.51 ± 24.98	38.93 ± 25.29
2023	11	0.10 ± 0.12	0.05 ± 0.00	0.05 ± 0.00	0.05 ± 0.00
2023	12	15.23 ± 25.27	1.24 ± 0.00	1.24 ± 0.00	1.24 ± 0.00
2024	1	42.21 ± 55.08	9.59 ± 6.10	7.56 ± 3.69	6.41 ± 2.47
2024	2	115.76 ± 60.51	84.90 ± 9.93	80.37 ± 4.59	78.03 ± 2.40
2024	3	41.48 ± 16.39	47.74 ± 0.89	47.93 ± 0.70	47.56 ± 0.96
2024	4	54.80 ± 16.12	60.36 ± 1.44	61.74 ± 3.47	60.41 ± 1.99
2024	5	46.83 ± 1.37	46.63 ± 1.49	46.75 ± 2.46	46.46 ± 1.35
2024	6	19.88 ± 0.63	20.21 ± 1.77	19.79 ± 1.80	19.96 ± 1.37
2024	7	12.80 ± 3.33	18.31 ± 10.14	17.84 ± 9.41	17.34 ± 8.46
2024	8	2.47 ± 1.01	15.63 ± 9.15	15.43 ± 11.29	7.23 ± 5.58
2024	10	11.82 ± 0.01	11.85 ± 6.13	11.77 ± 0.03	11.82 ± 0.01
2024	11	—	—	—	—
2024	12	—	—	—	—
2025	1	—	—	—	—
2025	2	—	—	—	—
2025	3	—	—	—	—
2025	4	—	—	—	—
2025	5	13.97 ± 7.69	13.20 ± 7.25	13.45 ± 7.39	13.08 ± 7.18
2025	6	—	91.04 ± 35.41	91.88 ± 35.81	91.48 ± 36.27
2025	7	12.82 ± 10.00	3.79 ± 1.97	3.79 ± 1.96	5.28 ± 7.45
2025	8	10.13 ± 7.31	10.83 ± 5.39	10.85 ± 5.42	12.31 ± 7.02
2025	9	25.26 ± 0.73	24.93 ± 0.68	25.07 ± 0.64	24.89 ± 0.65
2025	10	38.71 ± 39.47	14.97 ± 15.94	12.72 ± 10.89	6.14 ± 0.02

—: No data

Table S3 (Continued)

Year	Month	Myrcene			
		3m	17m	23m	30m
2023	6	1.97 ± 0.67	1.74 ± 0.00	1.74 ± 0.00	1.74 ± 0.00
2023	7	1.94 ± 0.76	1.93 ± 0.65	1.91 ± 0.27	1.91 ± 0.27
2023	8	14.61 ± 13.94	8.51 ± 12.56	5.73 ± 11.31	1.73 ± 0.00
2023	9	1.74 ± 0.00	1.73 ± 0.01	1.74 ± 0.00	1.74 ± 0.00
2023	10	103.37 ± 176.63	66.19 ± 84.86	67.92 ± 83.66	66.12 ± 84.76
2023	11	0.11 ± 0.00	0.11 ± 0.00	0.11 ± 0.00	0.11 ± 0.00
2023	12	2.35 ± 1.74	5.52 ± 10.70	1.73 ± 0.00	1.75 ± 0.00
2024	1	1.74 ± 0.00	1.74 ± 0.00	1.75 ± 0.00	1.75 ± 0.01
2024	2	1.74 ± 0.00	1.74 ± 0.00	1.74 ± 0.00	1.74 ± 0.00
2024	3	1.35 ± 0.00	1.35 ± 0.00	1.35 ± 0.00	1.35 ± 0.00
2024	4	37.97 ± 0.03	37.97 ± 0.00	44.48 ± 17.84	48.46 ± 19.49
2024	5	1.74 ± 0.00	20.97 ± 35.64	12.78 ± 31.24	21.78 ± 37.19
2024	6	12.43 ± 11.69	21.69 ± 14.93	14.41 ± 14.59	14.34 ± 14.72
2024	7	9.05 ± 5.47	14.20 ± 7.30	19.03 ± 12.34	13.57 ± 10.24
2024	8	16.85 ± 13.65	24.36 ± 13.11	27.62 ± 13.70	11.99 ± 9.69
2024	10	16.14 ± 0.01	16.18 ± 8.37	16.06 ± 0.04	16.14 ± 0.01
2024	11	—	—	—	—
2024	12	—	—	—	—
2025	1	—	—	—	—
2025	2	—	—	—	—
2025	3	—	—	—	—
2025	4	—	—	—	—
2025	5	15.14 ± 8.39	14.44 ± 7.93	11.36 ± 8.61	13.02 ± 7.13
2025	6	—	78.95 ± 48.58	59.81 ± 63.74	44.92 ± 48.89
2025	7	3.92 ± 1.97	3.41 ± 0.43	8.90 ± 16.89	3.44 ± 0.42
2025	8	5.31 ± 2.93	7.76 ± 5.84	14.38 ± 17.84	8.58 ± 6.90
2025	9	23.76 ± 0.97	31.24 ± 12.23	24.41 ± 0.69	22.62 ± 0.84
2025	10	3.99 ± 0.01	3.96 ± 0.01	3.95 ± 0.00	3.96 ± 0.01

—: No data

Table S3 (Continued)

Year	Month	β -Pinene			
		3m	17m	23m	30m
2023	6	2.03 $\pm$ 0.00	2.04 $\pm$ 0.00	2.03 $\pm$ 0.00	2.03 $\pm$ 0.00
2023	7	2.31 $\pm$ 0.79	2.25 $\pm$ 0.76	2.23 $\pm$ 0.32	2.23 $\pm$ 0.32
2023	8	2.03 $\pm$ 0.00	3.07 $\pm$ 2.94	3.18 $\pm$ 2.49	2.03 $\pm$ 0.00
2023	9	18.03 $\pm$ 17.48	9.77 $\pm$ 14.35	5.26 $\pm$ 9.14	24.29 $\pm$ 20.16
2023	10	81.10 $\pm$ 98.95	78.69 $\pm$ 100.94	82.63 $\pm$ 98.22	78.61 $\pm$ 100.82
2023	11	0.14 $\pm$ 0.00	0.14 $\pm$ 0.00	0.14 $\pm$ 0.00	0.14 $\pm$ 0.00
2023	12	10.89 $\pm$ 25.07	2.03 $\pm$ 0.00	2.02 $\pm$ 0.00	2.05 $\pm$ 0.00
2024	1	27.95 $\pm$ 48.00	2.03 $\pm$ 0.00	2.04 $\pm$ 0.00	2.04 $\pm$ 0.00
2024	2	21.76 $\pm$ 36.54	2.03 $\pm$ 0.00	2.03 $\pm$ 0.00	37.49 $\pm$ 48.97
2024	3	11.35 $\pm$ 18.12	6.78 $\pm$ 14.70	6.91 $\pm$ 15.05	6.83 $\pm$ 14.84
2024	4	45.12 $\pm$ 0.00	45.12 $\pm$ 0.00	45.12 $\pm$ 0.00	45.12 $\pm$ 0.00
2024	5	21.74 $\pm$ 22.19	25.36 $\pm$ 21.79	23.50 $\pm$ 25.77	22.37 $\pm$ 23.07
2024	6	24.55 $\pm$ 2.43	26.85 $\pm$ 4.00	23.61 $\pm$ 1.57	25.47 $\pm$ 3.02
2024	7	19.71 $\pm$ 7.62	25.69 $\pm$ 8.71	26.83 $\pm$ 8.75	26.02 $\pm$ 9.68
2024	8	10.14 $\pm$ 6.82	19.04 $\pm$ 10.47	18.90 $\pm$ 10.18	12.48 $\pm$ 10.49
2024	10	12.74 $\pm$ 0.01	17.27 $\pm$ 11.74	12.69 $\pm$ 4.49	12.74 $\pm$ 0.01
2024	11	37.90 $\pm$ 10.50	58.09 $\pm$ 9.66	66.52 $\pm$ 17.57	65.53 $\pm$ 12.24
2024	12	41.92 $\pm$ 2.88	47.37 $\pm$ 5.58	48.16 $\pm$ 7.87	60.29 $\pm$ 12.95
2025	1	32.41 $\pm$ 18.29	47.24 $\pm$ 17.76	27.18 $\pm$ 23.42	34.04 $\pm$ 26.95
2025	2	11.48 $\pm$ 16.99	30.83 $\pm$ 27.12	36.85 $\pm$ 26.04	36.72 $\pm$ 25.90
2025	3	—	22.74 $\pm$ 0.77	23.95 $\pm$ 1.05	27.78 $\pm$ 4.07
2025	4	27.38 $\pm$ 5.44	22.06 $\pm$ 0.19	23.47 $\pm$ 1.04	23.67 $\pm$ 0.21
2025	5	33.64 $\pm$ 11.13	23.28 $\pm$ 4.06	24.34 $\pm$ 3.40	23.26 $\pm$ 2.83
2025	6	—	156.69 $\pm$ 56.04	160.28 $\pm$ 56.84	154.37 $\pm$ 58.11
2025	7	48.01 $\pm$ 29.65	61.30 $\pm$ 42.85	70.83 $\pm$ 41.60	55.61 $\pm$ 42.09
2025	8	39.33 $\pm$ 27.15	53.43 $\pm$ 15.86	58.92 $\pm$ 17.16	49.82 $\pm$ 19.47
2025	9	49.52 $\pm$ 1.90	54.60 $\pm$ 2.70	57.09 $\pm$ 4.10	55.63 $\pm$ 4.49
2025	10	12.57 $\pm$ 0.87	10.52 $\pm$ 3.98	12.54 $\pm$ 0.81	12.95 $\pm$ 1.46

—: No data

Table S3 (Continued)

Year	Month	3-Carene			
		3m	17m	23m	30m
2023	6	1.70 ± 0.00	1.71 ± 0.00	1.71 ± 0.00	1.71 ± 0.00
2023	7	1.95 ± 0.77	1.89 ± 0.64	1.87 ± 0.27	1.87 ± 0.27
2023	8	1.70 ± 0.00	1.70 ± 0.00	1.70 ± 0.00	1.70 ± 0.00
2023	9	1.70 ± 0.00	1.70 ± 0.00	1.70 ± 0.00	1.70 ± 0.00
2023	10	50.92 ± 57.70	49.31 ± 58.93	48.95 ± 59.08	48.81 ± 59.07
2023	11	0.08 ± 0.00	0.08 ± 0.00	0.08 ± 0.00	0.08 ± 0.00
2023	12	3.27 ± 4.43	1.71 ± 0.00	1.70 ± 0.00	1.72 ± 0.00
2024	1	4.76 ± 5.66	4.10 ± 6.77	6.62 ± 9.21	3.19 ± 4.18
2024	2	20.35 ± 34.52	47.97 ± 38.33	29.19 ± 37.95	10.72 ± 25.49
2024	3	9.78 ± 22.85	1.71 ± 0.00	43.50 ± 34.61	1.72 ± 0.00
2024	4	31.42 ± 12.47	27.01 ± 0.00	35.98 ± 16.36	35.55 ± 15.84
2024	5	1.70 ± 0.00	1.71 ± 0.00	1.70 ± 0.00	1.71 ± 0.00
2024	6	26.93 ± 0.66	27.98 ± 0.99	28.74 ± 3.22	27.37 ± 1.45
2024	7	9.48 ± 4.22	15.68 ± 6.93	13.66 ± 4.14	13.69 ± 4.10
2024	8	9.17 ± 4.29	13.91 ± 11.24	13.11 ± 9.18	13.61 ± 9.30
2024	10	10.25 ± 0.01	10.28 ± 5.32	10.21 ± 3.61	10.25 ± 3.62
2024	11	—	—	—	—
2024	12	—	—	—	—
2025	1	—	—	—	—
2025	2	—	—	—	—
2025	3	—	—	—	—
2025	4	—	—	—	—
2025	5	15.00 ± 8.29	13.79 ± 7.57	14.41 ± 7.90	13.24 ± 7.28
2025	6	—	75.15 ± 46.96	98.78 ± 38.02	85.64 ± 44.76
2025	7	25.95 ± 16.61	10.57 ± 14.24	12.69 ± 16.21	12.43 ± 15.83
2025	8	7.41 ± 4.09	11.63 ± 7.97	10.07 ± 6.47	9.18 ± 5.08
2025	9	25.30 ± 0.35	25.11 ± 0.42	25.35 ± 0.26	25.16 ± 0.33
2025	10	5.58 ± 0.01	6.32 ± 2.24	5.52 ± 0.00	5.53 ± 0.02

—: No data

Table S3 (Continued)

Year	Month	Limonene			
		3m	17m	23m	30m
2023	6	2.69 ± 0.00	2.70 ± 0.01	2.69 ± 0.00	2.69 ± 0.00
2023	7	3.08 ± 1.22	4.12 ± 4.69	3.22 ± 1.18	3.70 ± 3.30
2023	8	2.69 ± 0.00	2.69 ± 0.00	2.69 ± 0.00	2.69 ± 0.00
2023	9	21.11 ± 1.76	20.55 ± 1.62	18.46 ± 6.79	23.08 ± 3.21
2023	10	101.74 ±	75.45 ± 53.25	77.26 ± 57.68	77.32 ± 54.40
		109.32			
2023	11	0.19 ± 0.18	0.27 ± 0.28	0.23 ± 0.19	0.18 ± 0.18
2023	12	26.09 ± 31.27	15.71 ± 16.29	14.92 ± 14.67	13.54 ± 24.05
2024	1	25.82 ± 27.16	20.17 ± 44.48	20.79 ± 35.67	25.54 ± 50.98
2024	2	53.79 ± 31.95	119.10 ±	118.99 ±	76.87 ± 19.33
			42.75	51.23	
2024	3	61.03 ± 5.09	74.98 ± 16.97	79.57 ± 15.43	52.87 ± 20.81
2024	4	77.47 ± 32.78	76.79 ± 7.13	99.01 ± 42.48	82.00 ± 22.11
2024	5	67.18 ± 7.89	66.19 ± 7.93	68.45 ± 14.25	68.86 ± 13.12
2024	6	40.72 ± 3.39	46.95 ± 23.77	105.60 ±	45.48 ± 24.81
				116.54	
2024	7	19.76 ± 11.86	21.76 ± 14.89	25.42 ± 15.81	24.50 ± 20.50
2024	8	14.88 ± 19.65	16.06 ± 21.07	10.84 ± 13.20	100.54 ±
					216.47
2024	10	11.54 ± 0.01	26.93 ± 29.47	13.31 ± 5.15	11.54 ± 0.01
2024	11	—	—	—	—
2024	12	—	—	—	—
2025	1	—	—	—	—
2025	2	—	—	—	—
2025	3	—	—	—	—
2025	4	—	—	—	—
2025	5	21.71 ± 14.79	16.82 ± 10.90	17.81 ± 11.39	16.98 ± 10.97
2025	6	—	97.12 ± 34.19	99.01 ± 34.53	99.81 ± 35.05
2025	7	46.92 ± 24.30	47.74 ± 22.58	54.67 ± 19.89	42.07 ± 24.65
2025	8	24.25 ± 16.11	22.48 ± 15.63	26.64 ± 18.44	21.39 ± 13.48
2025	9	25.92 ± 4.14	26.80 ± 5.59	26.76 ± 5.38	25.49 ± 3.34
2025	10	8.31 ± 6.55	6.67 ± 2.82	5.14 ± 0.00	11.50 ± 7.70

—: No data

Table S3 (Continued)

Year	Month	p-Cymene			
		3m	17m	23m	30m
2023	6	1.71 ± 0.00	1.72 ± 0.00	1.71 ± 0.00	1.71 ± 0.00
2023	7	1.96 ± 0.77	3.01 ± 4.52	1.99 ± 0.53	2.20 ± 1.44
2023	8	1.71 ± 0.00	1.71 ± 0.00	1.71 ± 0.00	1.71 ± 0.00
2023	9	5.11 ± 0.91	6.15 ± 1.77	6.40 ± 2.13	7.06 ± 1.52
2023	10	50.17 ± 26.21	51.69 ± 28.89	52.46 ± 28.45	51.97 ± 28.34
2023	11	0.06 ± 0.00	0.12 ± 0.08	0.11 ± 0.07	0.08 ± 0.04
2023	12	3.96 ± 3.79	5.94 ± 5.70	6.69 ± 7.39	4.09 ± 4.50
2024	1	10.33 ± 10.73	18.76 ± 17.14	16.79 ± 15.29	23.46 ± 25.26
2024	2	90.50 ± 9.02	98.73 ± 11.02	99.44 ± 11.65	91.73 ± 7.16
2024	3	65.29 ± 5.91	68.38 ± 6.08	67.65 ± 5.43	63.07 ± 3.37
2024	4	98.47 ± 55.72	115.37 ± 38.53	131.58 ± 82.60	123.15 ± 54.18
2024	5	70.76 ± 3.37	70.46 ± 5.10	71.29 ± 6.77	70.44 ± 5.60
2024	6	49.21 ± 9.92	66.89 ± 37.87	72.61 ± 53.47	66.15 ± 43.03
2024	7	22.14 ± 14.57	32.93 ± 23.87	39.28 ± 26.66	36.93 ± 25.73
2024	8	23.09 ± 13.16	24.07 ± 28.04	22.38 ± 20.68	27.61 ± 35.33
2024	10	11.23 ± 0.01	26.52 ± 29.23	11.18 ± 0.02	11.23 ± 0.01
2024	11	—	—	—	—
2024	12	—	—	—	—
2025	1	—	—	—	—
2025	2	—	—	—	—
2025	3	—	—	—	—
2025	4	—	—	—	—
2025	5	44.53 ± 30.83	45.11 ± 33.89	44.69 ± 33.91	45.28 ± 37.77
2025	6	—	116.92 ± 35.45	189.49 ± 88.83	119.36 ± 35.93
2025	7	46.29 ± 23.63	57.41 ± 16.49	58.93 ± 16.24	52.84 ± 22.67
2025	8	23.33 ± 17.13	26.57 ± 13.90	27.66 ± 13.23	26.20 ± 13.61
2025	9	36.59 ± 7.17	36.59 ± 9.97	37.79 ± 10.03	36.32 ± 9.96
2025	10	3.63 ± 0.00	3.60 ± 0.00	3.59 ± 0.00	3.60 ± 0.01

—: No data

Table S4 Monthly statistics of MEGAN-calculated isoprene fluxes F_{cal} and activity factors γ_{LAI} , γ_{P} , γ_{T} , and γ_{age} during the model calculation period. Statistics were calculated from 10 min model outputs for the daytime sampling window between 10:00 and 16:00 JST.

Year	Month	F_{cal} (mg m ⁻² h ⁻¹)							γ_{LAI}						
		Min	Max	Ave.	SD	Q1	Median	Q3	Min	Max	Ave.	SD	Q1	Median	Q3
2023	6	0.00	15.51	3.68	3.15	1.09	2.78	5.74	0.79	0.83	0.81	0.02	0.80	0.82	0.83
	7	0.00	26.58	10.07	6.50	4.27	9.60	15.21	0.78	0.91	0.85	0.04	0.83	0.88	0.89
	8	0.11	21.10	8.24	4.91	4.03	7.80	11.88	0.80	0.93	0.89	0.05	0.83	0.91	0.93
	9	0.08	13.22	5.08	3.46	2.07	4.34	8.05	0.78	0.90	0.80	0.03	0.78	0.80	0.80
	10	0.04	4.99	1.63	1.11	0.69	1.45	2.50	0.86	0.94	0.90	0.03	0.89	0.90	0.94
	11	0.00	3.42	0.83	0.81	0.18	0.57	1.18	0.67	0.90	0.86	0.07	0.85	0.89	0.90
	12	–	–	–	–	–	–	–	0.67	0.67	0.67	0.04	–	–	–
2024	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.69	0.69	0.30	–	–	–
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.69	0.53	0.10	0.46	0.46	0.63
	4	0.00	1.26	0.25	0.25	0.06	0.17	0.39	0.63	0.79	0.69	0.07	0.63	0.63	0.77
	5	0.02	5.68	1.57	1.21	0.63	1.26	2.19	0.78	0.88	0.81	0.04	0.78	0.79	0.80
	6	0.00	20.06	4.15	3.43	1.33	3.45	6.13	0.75	0.90	0.83	0.06	0.78	0.84	0.90
	7	0.00	26.25	8.85	7.13	2.21	7.15	15.07	0.84	0.91	0.89	0.02	0.89	0.89	0.89
	8	0.08	20.81	8.79	5.50	4.05	8.60	13.14	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	9	0.04	16.41	5.86	4.66	1.18	5.00	10.20	0.81	0.91	0.86	0.04	0.81	0.84	0.91
	10	0.01	9.16	1.37	1.60	0.31	0.77	1.86	0.79	0.84	0.82	0.02	0.82	0.82	0.82
	11	0.00	2.89	0.53	0.50	0.17	0.38	0.69	0.77	0.85	0.80	0.03	0.78	0.79	0.79
	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.77	0.73	0.08	0.77	0.77	0.77
2025	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.56	0.53	0.04	0.47	0.56	0.56
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.66	0.46	0.04	0.45	0.45	0.47
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.66	0.63	0.04	0.56	0.66	0.66
	4	0.00	1.15	0.27	0.23	0.09	0.21	0.41	0.56	0.87	0.72	0.15	0.56	0.84	0.84
	5	0.02	7.53	1.46	1.57	0.26	0.95	2.09	0.75	0.92	0.86	0.07	0.78	0.88	0.90
	6	0.00	24.28	6.16	5.57	1.89	4.40	8.93	0.78	0.92	0.86	0.07	0.78	0.92	0.92
	7	0.21	20.61	9.38	5.20	5.12	9.60	13.83	0.86	0.92	0.88	0.03	0.86	0.86	0.92
	8	0.32	27.10	9.79	6.37	3.85	9.62	14.86	0.86	0.86	0.86	0.00	0.86	0.86	0.86
	9	0.05	16.78	4.99	4.05	1.82	3.96	7.42	0.85	0.86	0.85	0.00	0.85	0.85	0.85
	10	0.01	5.74	1.00	1.13	0.21	0.57	1.23	0.85	0.85	0.85	0.00	0.85	0.85	0.85

–: No data

Table S4 (Continued)

Year	Month	γ_P							γ_T						
		Min	Max	Ave.	SD	Q1	Median	Q3	Min	Max	Ave.	SD	Q1	Median	Q3
2023	6	0.00	1.56	0.68	0.40	0.34	0.64	0.98	0.21	1.50	0.66	0.30	0.41	0.59	0.87
	7	0.00	1.52	0.95	0.42	0.58	1.06	1.34	0.56	2.53	1.31	0.49	0.88	1.24	1.65
	8	0.02	1.61	0.84	0.39	0.49	0.87	1.21	0.47	2.00	1.19	0.30	1.00	1.18	1.40
	9	0.02	1.31	0.67	0.33	0.38	0.65	0.97	0.23	1.57	0.94	0.34	0.68	1.02	1.23
	10	0.04	1.00	0.52	0.26	0.28	0.53	0.77	0.12	0.71	0.36	0.13	0.27	0.36	0.45
	11	0.00	0.76	0.38	0.21	0.19	0.39	0.58	0.04	0.68	0.25	0.17	0.12	0.18	0.38
	12	—	—	—	—	—	—	—	0.02	0.05	0.03	0.01	—	—	—
2024	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2	0.03	0.93	0.51	0.27	—	—	—	0.03	0.17	0.08	0.04	—	—	—
	3	0.02	1.15	0.60	0.32	0.33	0.61	0.91	0.04	1.06	0.17	0.20	0.07	0.09	0.15
	4	0.03	1.42	0.62	0.38	0.27	0.55	0.98	0.06	0.82	0.33	0.17	0.17	0.35	0.44
	5	0.03	1.48	0.76	0.42	0.39	0.73	1.19	0.12	0.94	0.43	0.17	0.30	0.41	0.56
	6	0.00	1.66	0.76	0.44	0.37	0.73	1.18	0.19	1.65	0.67	0.33	0.42	0.63	0.81
	7	0.00	1.53	0.73	0.44	0.34	0.72	1.14	0.35	2.95	1.35	0.58	0.91	1.34	1.80
	8	0.02	1.45	0.82	0.42	0.45	0.88	1.22	0.46	1.89	1.23	0.35	1.01	1.27	1.47
	9	0.01	1.31	0.67	0.37	0.32	0.66	1.03	0.27	1.62	0.94	0.42	0.51	1.02	1.33
	10	0.01	1.03	0.37	0.27	0.15	0.30	0.57	0.09	1.22	0.43	0.23	0.25	0.37	0.56
	11	0.01	0.79	0.36	0.21	0.17	0.34	0.56	0.03	0.60	0.20	0.11	0.12	0.16	0.26
	12	0.00	0.63	0.38	0.17	0.22	0.45	0.53	0.03	0.24	0.10	0.05	0.07	0.08	0.13
2025	1	0.01	0.68	0.41	0.18	0.26	0.46	0.56	0.03	0.15	0.08	0.03	0.06	0.08	0.11
	2	0.05	0.90	0.54	0.23	0.33	0.63	0.74	0.03	0.22	0.08	0.05	0.05	0.06	0.10
	3	0.00	1.17	0.53	0.32	0.23	0.52	0.85	0.02	0.78	0.21	0.22	0.05	0.11	0.37
	4	0.01	1.39	0.70	0.38	0.36	0.69	1.07	0.02	0.78	0.29	0.15	0.20	0.28	0.35
	5	0.03	1.44	0.65	0.42	0.25	0.58	1.07	0.10	1.19	0.39	0.24	0.23	0.30	0.50
	6	0.00	1.63	0.79	0.43	0.40	0.77	1.22	0.21	2.18	0.87	0.45	0.50	0.79	1.13
	7	0.07	1.53	0.97	0.39	0.67	1.06	1.31	0.29	1.92	1.18	0.37	0.93	1.22	1.49
	8	0.06	1.41	0.84	0.38	0.53	0.90	1.19	0.51	2.72	1.41	0.51	0.98	1.46	1.79
	9	0.02	1.34	0.63	0.33	0.39	0.58	0.93	0.31	1.76	0.91	0.42	0.54	0.92	1.23
	10	0.01	0.99	0.34	0.24	0.16	0.29	0.48	0.06	0.90	0.32	0.18	0.17	0.26	0.46

—: No data

Table S4 (Continued)

Year	Month	γ_{age}						
		Min	Max	Ave.	SD	Q1	Median	Q3
2023	6	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	7	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	8	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	9	0.95	0.95	0.95	0.00	0.95	0.95	0.95
	10	0.92	0.92	0.92	0.00	0.92	0.92	0.92
	11	0.90	0.90	0.90	0.00	0.90	0.90	0.90
2024	12	0.00	0.00	0.00	—	—	—	—
	1	—	—	—	—	—	—	—
	2	0.00	0.00	0.00	—	—	—	—
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.16	0.16	0.16	0.00	0.16	0.16	0.16
	5	0.57	0.57	0.57	0.00	0.57	0.57	0.57
	6	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	7	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	8	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	9	0.95	0.95	0.95	0.00	0.95	0.95	0.95
	10	0.92	0.92	0.92	0.00	0.92	0.92	0.92
	11	0.90	0.90	0.90	0.00	0.90	0.90	0.90
2025	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.16	0.16	0.16	0.00	0.16	0.16	0.16
	5	0.57	0.57	0.57	0.00	0.57	0.57	0.57
	6	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	7	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	8	0.91	0.91	0.91	0.00	0.91	0.91	0.91
	9	0.95	0.95	0.95	0.00	0.95	0.95	0.95
	10	0.92	0.92	0.92	0.00	0.92	0.92	0.92

—: No data