

1 **Iodine distribution and volatilization in contrasting forms of forest humus during a**
2 **laboratory incubation experiment**

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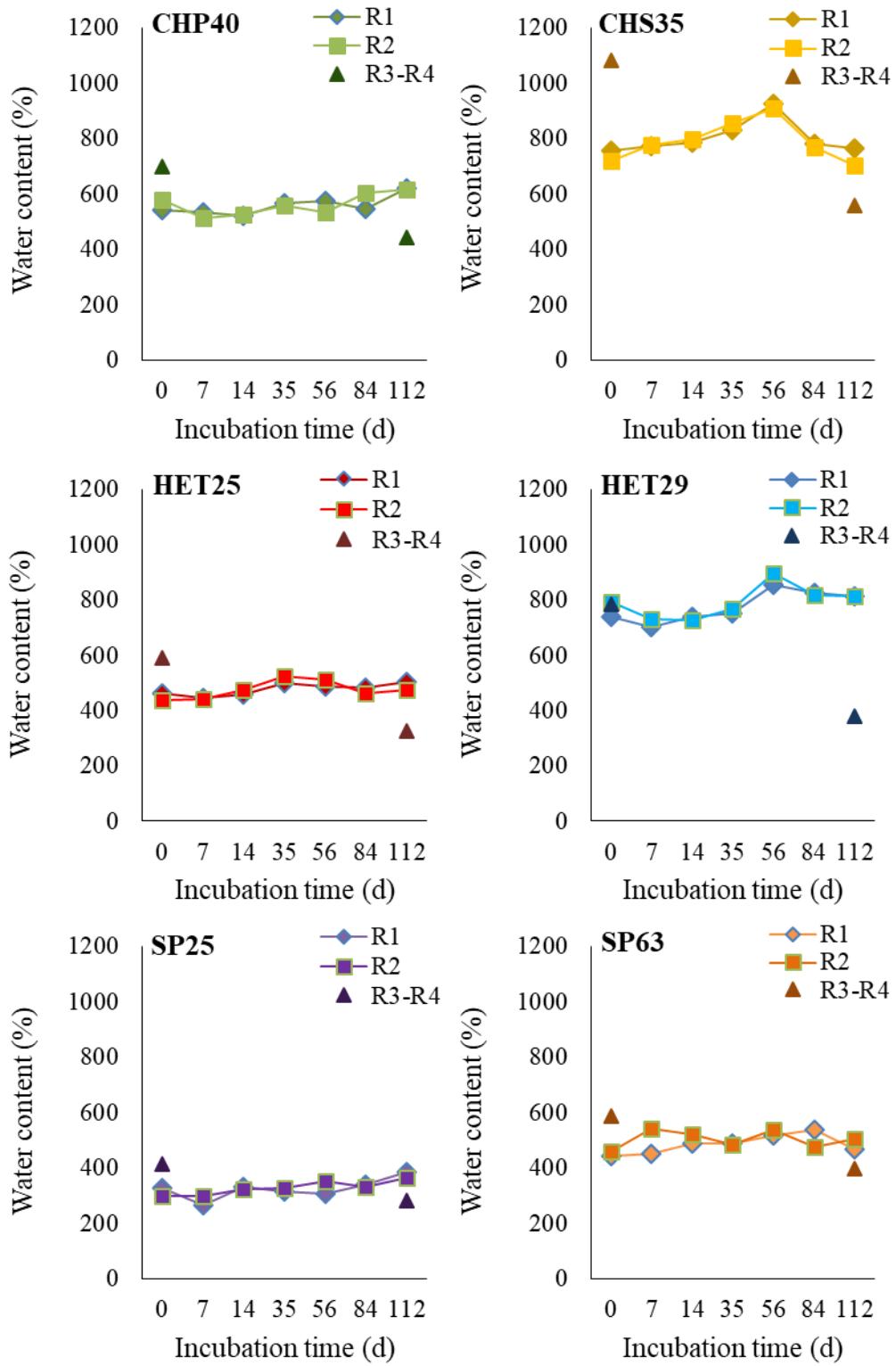
6 **SUPPORTING INFORMATION**



8 Figure S1. Localisation of sampling sites (CHP40, CHS35, HET25, HET29, SP25 and SP63)
9 in French territory. CHP=Pedunculate Oak; CHS=Sessile Oak; HET=Beech; SP=Silver fir.

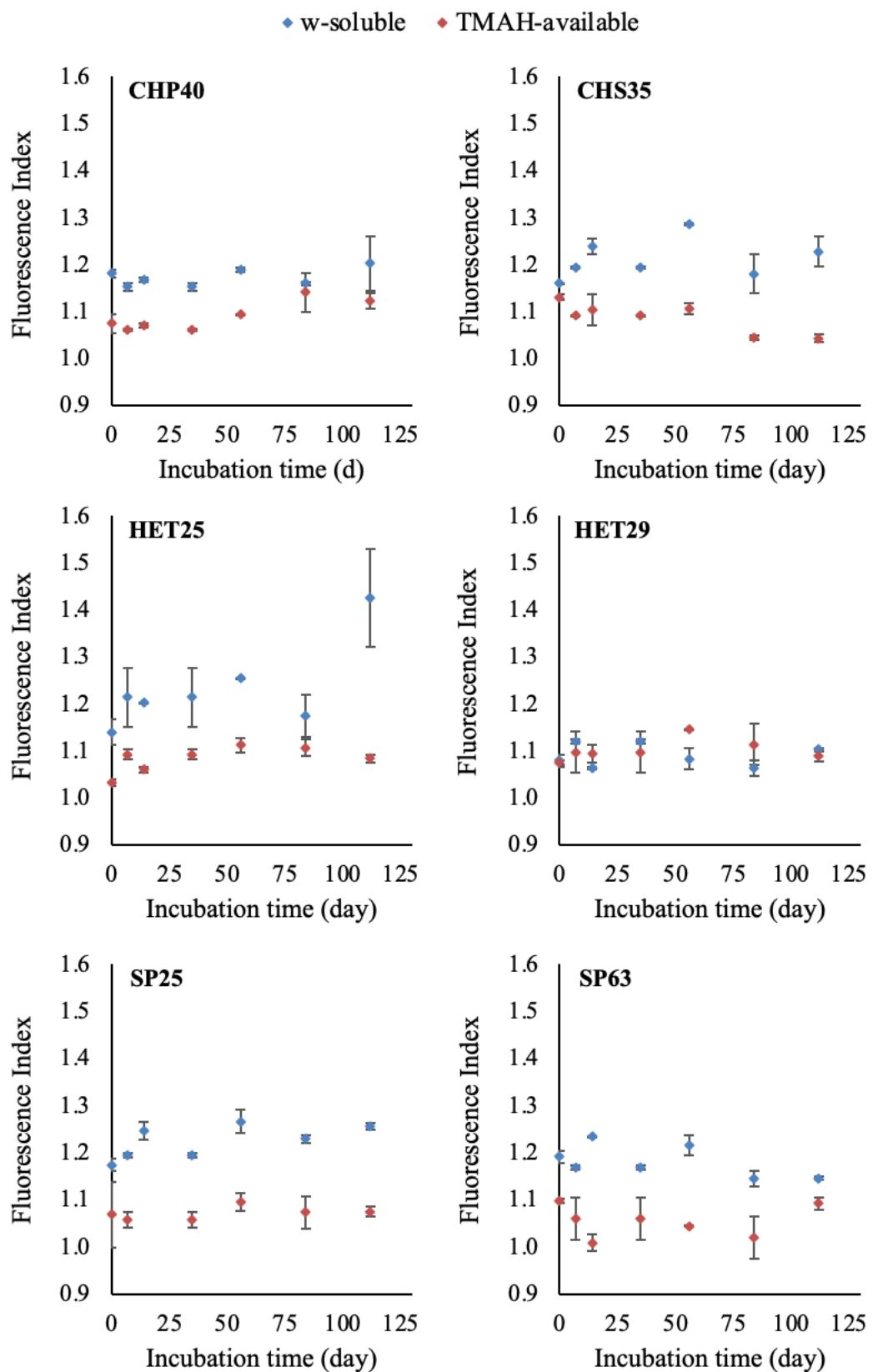
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13 Figure S2. Evolution of water content of spiked ^{125}I humus (R1 and R2) and unspiked humus
 14 (R3-R4) during incubation time of studied humus.



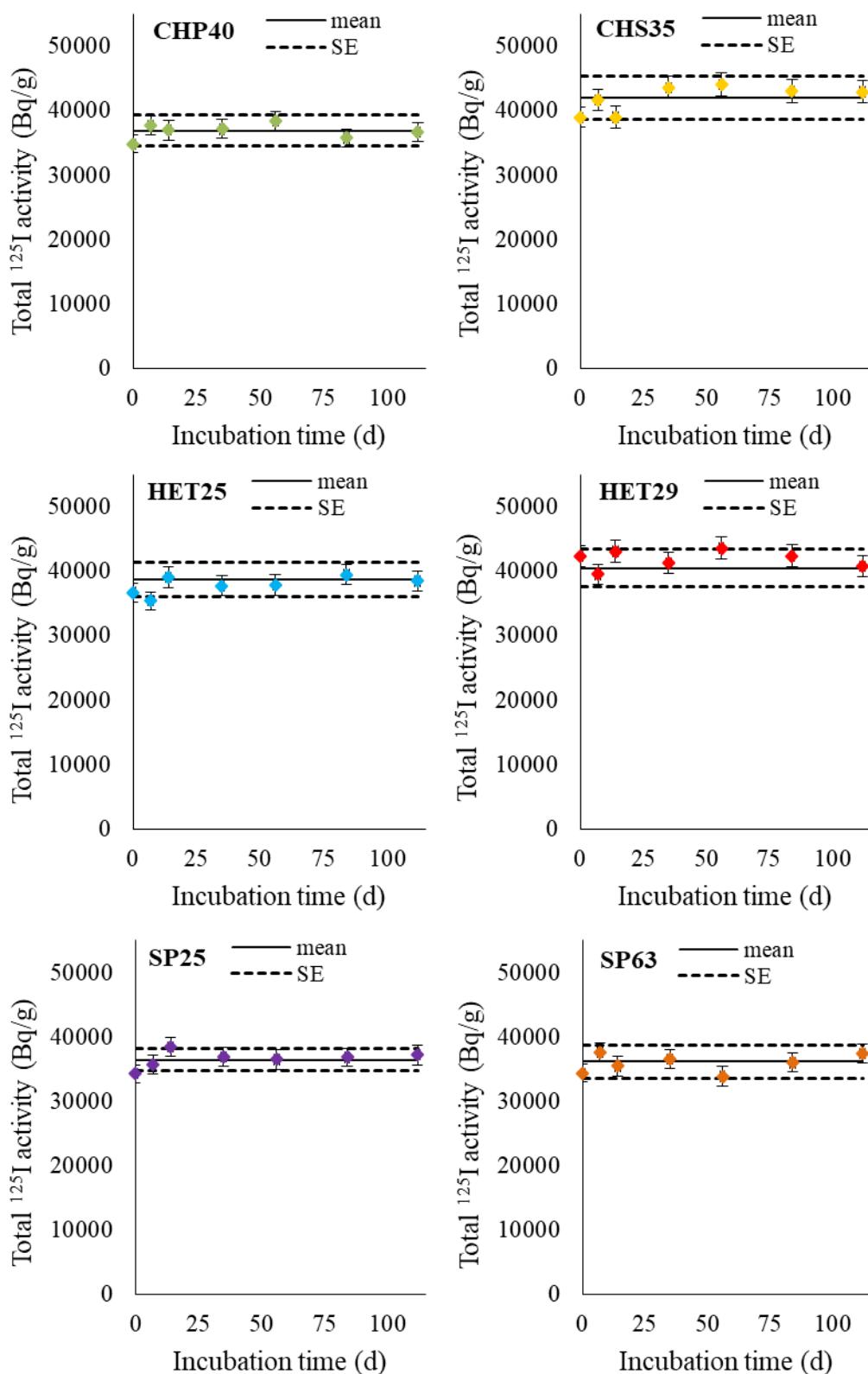
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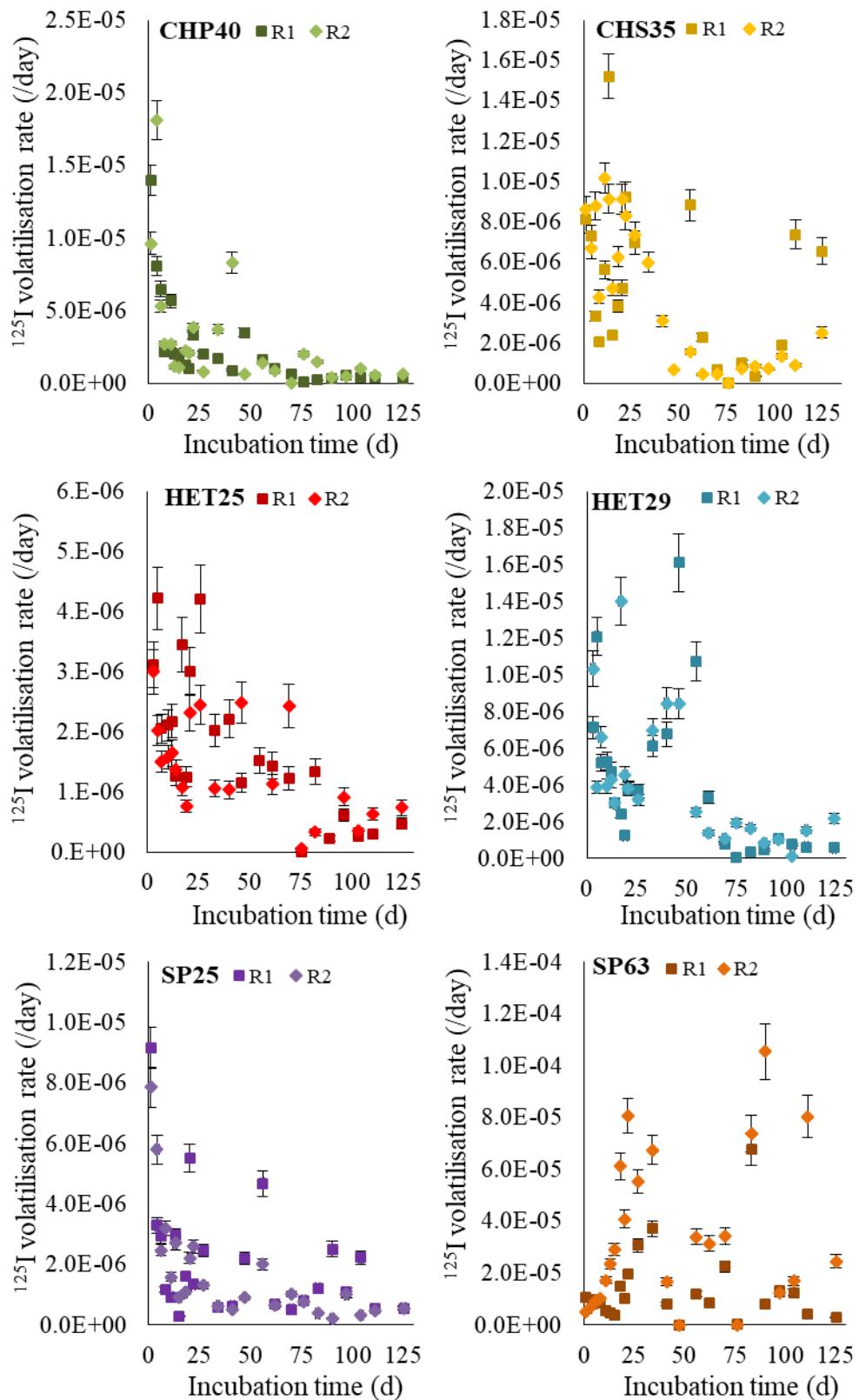
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Figure S3. Fluorescence index measured in water-extracts (water) and TMAH-extracts (TMAH) of spiked humus (R1 and R2). Mean values for duplicates (R1 and R2) with standard error.



21 Figure S4. Total ^{125}I activity of spiked humus during incubation time. Dots correspond to
 22 mean (\pm standard error) for duplicates (R1 and R2) at each sampling time. Black line
 23 correspond to total ^{125}I activity mean for the seven samplings with dotted black lines as
 24 standard error.



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26 Figure S5. Iodine-125 volatilization rates from spiked humus (R1 and R2) over 125 days
27 period. Uncertainties correspond to standard error.

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29 Table S1. Carbon substrates in Biolog EcoPlate™ and chemical guilds according to Choi and
 30 Dobbs (1999).

Guild	Substrate
Polymer	α -cyclodextrin
	Glycogen
	Tween 40
	Tween 80
Carbohydrates	D-cellulose
	i-erythritol
	D-galactonic acid γ -lactone
	N-acetyl-D-glucosamine
	glucose-1-phosphate
	β -methyl-D-glucoside
	D,L- α -glycerol phosphate
	α -D-lactose
	D-mannitol
	D-xylose
Carboxylic acids	γ -hydroxybutyric acid
	α -ketobutyric acid
	D-galacturonic acid
	D-glucosaminic acid
	itaconic acid
	D-malic acid
	pyruvatic acid methyl ester
Amino acids	L-arginine
	L-asparagine
	glycyl-L-glutamic acid
	L-phenylalanine
	L-serine
	L-threonine
Amines	perphenyl ethylamine
	putrescine
Phenolic compounds	2-hydroxybenzoic acid
	4-hydroxybenzoic acid

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Table S2. Evolution of mean values (\pm standard error) of pH_{water} , carbon content (%C) and carbon-to-nitrogen (C/N) ratio of spiked humus (R1 and R2).

	Time (d)	CHP40 (mull)		CHS35 (moder)		HET25 (mull)		HET29 (moder)		SP25 (mull)		SP63 (moder)	
		R1	R2										
pH_{water}	0	6.3 ± 0.1	6.3 ± 0.0	5.9 ± 0.1	5.9 ± 0.1	7.2 ± 0.3	7.2 ± 0.3	5.9 ± 0.1	5.9 ± 0.2	6.6 ± 0.2	6.6 ± 0.1	5.1 ± 0.2	5.1 ± 0.1
	7	6.4 ± 0.1	6.4 ± 0.1	6.7 ± 0.1	6.6 ± 0.1	7.0 ± 0.1	7.2 ± 0.0	5.9 ± 0.2	6.0 ± 0.2	6.9 ± 0.1	6.9 ± 0.0	5.3 ± 0.2	5.4 ± 0.2
	14	5.6 ± 0.2	6.2 ± 0.1	6.9 ± 0.0	6.7 ± 0.1	5.9 ± 0.2	6.3 ± 0.1	6.2 ± 0.2	6.3 ± 0.1	6.9 ± 0.1	6.9 ± 0.1	5.9 ± 0.1	5.6 ± 0.2
	35	6.3 ± 0.1	6.3 ± 0.1	7.2 ± 0.1	7.1 ± 0.1	6.8 ± 0.0	6.8 ± 0.0	6.5 ± 0.1	6.5 ± 0.1	7.3 ± 0.0	7.3 ± 0.1	6.0 ± 0.2	6.0 ± 0.2
	56	6.5 ± 0.1	6.4 ± 0.1	6.5 ± 0.1	6.2 ± 0.1	6.8 ± 0.1	6.8 ± 0.0	6.5 ± 0.2	6.5 ± 0.2	7.5 ± 0.0	7.5 ± 0.1	5.8 ± 0.3	6.1 ± 0.2
	84	6.7 ± 0.2	6.7 ± 0.1	5.1 ± 0.1	5.2 ± 0.1	7.1 ± 0.1	7.1 ± 0.0	6.4 ± 0.2	6.3 ± 0.2	7.5 ± 0.0	7.6 ± 0.0	6.4 ± 0.2	6.1 ± 0.2
	112	6.6 ± 0.1	6.6 ± 0.1	4.5 ± 0.2	4.4 ± 0.2	7.0 ± 0.0	7.0 ± 0.0	6.3 ± 0.2	6.3 ± 0.3	7.5 ± 0.1	7.5 ± 0.1	6.3 ± 0.2	6.4 ± 0.2
	Mean	6.3 ± 0.3	6.4 ± 0.2	6.1 ± 0.9	6.0 ± 0.9	6.8 ± 0.4	6.9 ± 0.3	6.2 ± 0.3	6.2 ± 0.3	7.2 ± 0.4	7.2 ± 0.4	5.8 ± 0.5	5.8 ± 0.5
%C	0	40.7 ± 1.4	41.3 ± 2.0	42.0 ± 1.6	43.3 ± 0.1	35.0 ± 1.1	35.2 ± 0.2	42.8 ± 1.2	44.9 ± 0.2	42.1 ± 0.2	39.2 ± 2.3	45.4 ± 0.8	45.3 ± 0.8
	7	41.6 ± 1.2	41.0 ± 0.7	43.1 ± 0.7	42.9 ± 0.9	35.6 ± 1.0	34.6 ± 1.5	44.3 ± 0.2	44.1 ± 0.5	39.6 ± 0.5	38.2 ± 0.7	45.6 ± 1.0	45.6 ± 0.4
	14	41.8 ± 0.9	41.1 ± 0.0	43.5 ± 0.8	43.4 ± 0.7	36.1 ± 3.1	34.9 ± 1.5	42.8 ± 1.9	44.9 ± 1.8	39.3 ± 0.2	38.9 ± 1.2	46.5 ± 0.1	45.6 ± 0.8
	35	41.2 ± 0.4	41.3 ± 1.1	43.1 ± 1.4	41.8 ± 0.6	36.8 ± 0.7	37.2 ± 0.5	45.1 ± 3.0	44.0 ± 0.4	40.0 ± 0.5	41.6 ± 2.8	46.6 ± 0.8	46.5 ± 0.0
	56	41.7 ± 0.7	41.4 ± 1.4	41.7 ± 1.8	42.2 ± 0.5	37.2 ± 0.7	35.2 ± 0.2	44.0 ± 0.4	44.4 ± 0.3	38.1 ± 0.8	39.8 ± 2.0	46.8 ± 1.4	47.1 ± 0.3
	84	40.3 ± 0.1	39.6 ± 3.4	42.6 ± 0.6	43.5 ± 0.3	36.7 ± 0.4	35.0 ± 0.7	45.3 ± 1.1	46.1 ± 1.0	37.9 ± 2.1	38.6 ± 0.0	47.7 ± 1.3	45.7 ± 1.3
	112	41.5 ± 2.0	40.4 ± 1.3	42.5 ± 0.4	41.8 ± 0.7	34.7 ± 0.4	32.7 ± 0.3	45.5 ± 1.3	43.8 ± 0.6	38.9 ± 0.8	37.5 ± 1.1	45.3 ± 1.3	45.7 ± 0.1
	Mean	41.3 ± 1.2	40.9 ± 1.8	42.6 ± 1.3	42.7 ± 0.9	36.0 ± 1.6	35.0 ± 1.5	44.3 ± 1.9	44.6 ± 1.1	39.4 ± 1.6	39.1 ± 2.1	46.3 ± 1.3	45.9 ± 0.9
C/N ratio	0	19.5 ± 1.3	18.3 ± 1.0	16.0 ± 0.8	17.7 ± 0.1	19.5 ± 0.7	19.2 ± 0.9	19.1 ± 1.8	19.8 ± 0.7	26.6 ± 2.3	26.0 ± 2.0	22.2 ± 0.6	21.9 ± 1.8
	7	21.0 ± 1.2	19.8 ± 1.0	16.8 ± 0.6	16.7 ± 0.4	20.2 ± 0.7	19.2 ± 1.0	19.3 ± 0.5	17.8 ± 0.2	27.3 ± 0.6	24.1 ± 1.8	21.0 ± 0.7	19.8 ± 0.5
	14	20.1 ± 1.2	19.0 ± 0.8	15.7 ± 1.3	15.2 ± 0.7	19.1 ± 1.7	19.4 ± 1.1	19.6 ± 0.9	17.7 ± 1.6	25.3 ± 0.4	24.2 ± 1.5	21.7 ± 1.2	21.1 ± 1.7
	35	20.6 ± 0.2	19.1 ± 0.5	15.4 ± 0.7	15.2 ± 0.5	21.0 ± 0.7	20.9 ± 1.4	18.8 ± 1.5	18.1 ± 1.2	24.9 ± 0.8	26.0 ± 2.7	19.0 ± 1.0	21.3 ± 1.5
	56	18.7 ± 0.8	20.4 ± 3.1	16.2 ± 1.2	15.9 ± 0.3	19.6 ± 0.5	20.3 ± 0.2	16.2 ± 0.4	16.9 ± 0.9	22.4 ± 0.8	23.1 ± 1.7	22.0 ± 1.5	19.6 ± 0.4
	84	18.1 ± 0.1	18.8 ± 1.6	16.6 ± 0.7	18.4 ± 0.2	21.3 ± 0.6	20.2 ± 0.4	19.2 ± 1.6	19.6 ± 0.4	22.3 ± 3.0	21.7 ± 1.9	19.9 ± 0.5	20.1 ± 1.5
	112	18.7 ± 1.0	19.8 ± 0.9	16.7 ± 1.0	16.3 ± 0.4	20.0 ± 0.4	20.0 ± 0.3	19.1 ± 2.3	19.2 ± 0.3	23.2 ± 1.0	22.1 ± 1.0	20.2 ± 1.8	20.3 ± 0.1
	Mean	19.5 ± 1.4	19.3 ± 1.8	16.2 ± 1.0	16.5 ± 1.2	20.1 ± 1.1	19.9 ± 1.0	18.7 ± 1.8	18.4 ± 1.3	24.6 ± 2.4	23.5 ± 2.5	20.8 ± 1.6	20.6 ± 1.5

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36 Table S3. Evolution of mean values (\pm standard error) of pH_{water}, carbon content (%C) and
 37 carbon-to-nitrogen (C/N) ratio of unspiked humus (R3 and R4).

	Time (d)	CHP40 (mull)	CH35 (moder)	HET25 (mull)	HET29 (moder)	SP25 (mull)	SP63 (moder)
		R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4
pH _{water}	0	6.2 \pm 0.1	5.8 \pm 0.2	6.7 \pm 0.7	5.8 \pm 0.1	6.4 \pm 0.0	5.2 \pm 0.1
	112	6.6 \pm 0.1	6.6 \pm 0.1	6.1 \pm 0.1	6.0 \pm 0.2	7.2 \pm 0.1	5.9 \pm 0.2
	Mean	6.3 \pm 0.2	6.4 \pm 0.5	6.4 \pm 0.5	6.1 \pm 0.3	6.9 \pm 0.4	5.4 \pm 0.4
%C	0	39.8 \pm 0.3	42.8 \pm 0.9	34.6 \pm 0.4	44.7 \pm 1.1	41.5 \pm 0.7	45.7 \pm 0.2
	112	41.1 \pm 0.5	42.8 \pm 0.2	31.9 \pm 0.7	43.8 \pm 0.4	37.5 \pm 0.2	44.9 \pm 0.7
	Mean	39.5 \pm 2.4	42.7 \pm 0.6	32.9 \pm 1.3	44.1 \pm 0.9	38.7 \pm 2.0	45.0 \pm 0.6
C/N ratio	0	20.2 \pm 0.3	17.5 \pm 0.9	18.5 \pm 0.4	22.3 \pm 1.1	27.2 \pm 0.7	22.3 \pm 0.2
	112	21.0 \pm 0.5	17.9 \pm 0.2	18.8 \pm 0.7	18.7 \pm 0.4	25.1 \pm 0.2	20.7 \pm 0.8
	Mean	20.6 \pm 1.9	17.7 \pm 0.6	19.2 \pm 0.9	20.0 \pm 1.8	25.7 \pm 1.2	21.3 \pm 0.8

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41 Table S4. Mean values (\pm standard error) of dissolved organic carbon concentrations (mg L^{-1})
 42 for the first water-extract (W1) of spiked humus (R1 and R2).

Incubation time (d)	CHP40 (mull)		CHS35 (moder)		HET25 (mull)		HET29 (moder)		SP25 (mull)		SP63 (moder)	
	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2	R1-R2
0	391 \pm 29	530 \pm 45	188 \pm 14	413 \pm 31	171 \pm 13	395 \pm 30						
7	495 \pm 37	252 \pm 19	276 \pm 21	502 \pm 39	157 \pm 12	323 \pm 24						
14	323 \pm 24	380 \pm 31	179 \pm 14	525 \pm 40	182 \pm 14	377 \pm 29						
35	340 \pm 26	338 \pm 25	124 \pm 9	195 \pm 15	126 \pm 9	644 \pm 48						
56	295 \pm 22	394 \pm 30	106 \pm 8	206 \pm 15	121 \pm 9	667 \pm 51						
84	312 \pm 23	336 \pm 31	345 \pm 31	463 \pm 41	130 \pm 10	629 \pm 47						
112	227 \pm 17	276 \pm 21	98 \pm 7	673 \pm 51	135 \pm 10	722 \pm 54						

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44 Table S5. Mean values (\pm standard error) of dissolved organic carbon concentrations (mg L^{-1})
 45 for the first water-extract (W1) of unspiked humus (R3 and R4).

Incubation time (d)	CHP40 (mull)		CHS35 (moder)		HET25 (mull)		HET29 (moder)		SP25 (mull)		SP63 (moder)	
	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4	R3-R4
0	226 \pm 34	434 \pm 65	114 \pm 9	298 \pm 23	116 \pm 9	201 \pm 15						
112	179 \pm 13	259 \pm 20	48 \pm 4	363 \pm 27	96 \pm 7	275 \pm 21						

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47 Table S6. The rate coefficient (k) and the percentage of ^{125}I initial (A_0) and final (A_f)
 48 determined by modelling for w-soluble (w) and residual (r) fractions according to humus
 49 samples. The half-life ($t_{1/2}$) corresponds to $\ln(2)$ divided by k. Uncertainties correspond to
 50 standard error.

Condition	Water-soluble fraction				
	$k_w (\text{d}^{-1})$	$A^w_0 (\%)$	$A^w_f (\%)$	R^2	$t_{1/2} (\text{d})$
CHP40	0.034 ± 0.007	22.4 ± 0.8	6.5 ± 0.9	0.99	20 ± 4
CHS35	0.010 ± 0.003	37.1 ± 3.3	0.0 ± 0.0	0.82	72 ± 23
HET25	0.063 ± 0.008	32.3 ± 1.2	3.6 ± 0.8	0.99	11 ± 1
HET29	-	-	-	-	-
SP25	0.069 ± 0.029	13.0 ± 1.4	4.0 ± 0.8	0.9	10 ± 4
SP63	0.003 ± 0.001	21.0 ± 0.8	0.0 ± 0.0	0.73	258 ± 96

Condition	Residual fraction			
	$k_r (\text{d}^{-1})$	$A^r_0 (\%)$	$A^r_f (\%)$	R^2
CHP40	-	-	-	-
CHS35	0.09 ± 0.04	19.7 ± 3.6	41.9 ± 2.0	0.89
HET25	0.06 ± 0.03	20.6 ± 3.2	44.2 ± 2.1	0.91
HET29	0.03 ± 0.03	33.5 ± 2.1	42.9 ± 2.9	0.74
SP25	0.56 ± 0.99	23.1 ± 2.0	39.2 ± 0.9	0.93
SP63	0.08 ± 0.04	22.7 ± 2.8	36.7 ± 1.7	0.84

- : not determinable

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Table S7. Evolution of mean values (\pm standard error) of ^{125}I w-soluble, organic and residual fractions (%) of spiked humus (R1 and R2).

Time (d)	CHP40 (mull)		CHS35 (moder)		HET25 (mull)		HET29 (moder)		SP25 (mull)		SP63 (moder)		
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	
w-soluble fraction	0	25 \pm 1	21 \pm 1	37 \pm 1	37 \pm 2	26 \pm 1	38 \pm 11	30 \pm 1	26 \pm 1	13 \pm 1	14 \pm 1	21 \pm 1	21 \pm 1
	7	18 \pm 1	18 \pm 1	30 \pm 1	32 \pm 1	24 \pm 1	24 \pm 1	19 \pm 1	18 \pm 1	7.1 \pm 0.3	7.9 \pm 0.3	15 \pm 1	22 \pm 1
	14	14 \pm 1	17 \pm 1	37 \pm 1	26 \pm 1	13 \pm 1	15 \pm 1	18 \pm 1	17 \pm 1	7.8 \pm 0.3	9.7 \pm 0.4	22 \pm 1	20 \pm 1
	35	11.2 \pm 0.4	14 \pm 1	31 \pm 1	31 \pm 1	7.0 \pm 0.3	6.8 \pm 0.3	20 \pm 1	21 \pm 1	4.7 \pm 0.2	6.2 \pm 0.2	18 \pm 1	24 \pm 1
	56	7.4 \pm 0.3	9.4 \pm 0.4	32 \pm 1	26 \pm 1	5.4 \pm 0.2	5.3 \pm 0.2	21 \pm 1	22 \pm 1	4.2 \pm 0.2	4.8 \pm 0.2	20 \pm 1	16 \pm 1
	84	6.5 \pm 0.3	8.5 \pm 0.3	14 \pm 1	13 \pm 1	3.6 \pm 0.1	3.7 \pm 0.1	20 \pm 1	19 \pm 1	4.3 \pm 0.2	4.2 \pm 0.2	14 \pm 1	18 \pm 1
	112	6.0 \pm 0.2	7.1 \pm 0.3	7.3 \pm 0.3	7.8 \pm 0.3	3.2 \pm 0.1	3.1 \pm 0.1	19 \pm 1	19 \pm 1	2.9 \pm 0.1	3.2 \pm 0.1	13 \pm 1	18 \pm 1
organic fraction	0	54 \pm 6	48 \pm 2	41 \pm 2	48 \pm 4	40 \pm 2	53 \pm 13	41 \pm 3	34 \pm 2	59 \pm 2	67 \pm 7	53 \pm 2	61 \pm 4
	7	40 \pm 2	40 \pm 2	34 \pm 2	37 \pm 2	50 \pm 3	49 \pm 2	51 \pm 3	43 \pm 2	54 \pm 2	53 \pm 2	46 \pm 2	58 \pm 3
	14	53 \pm 4	40 \pm 2	38 \pm 3	32 \pm 2	52 \pm 3	52 \pm 4	48 \pm 3	46 \pm 2	51 \pm 2	53 \pm 2	47 \pm 2	44 \pm 2
	35	50 \pm 3	47 \pm 3	30 \pm 2	31 \pm 2	48 \pm 2	48 \pm 2	42 \pm 2	41 \pm 3	57 \pm 3	57 \pm 2	44 \pm 2	52 \pm 2
	56	44 \pm 2	51 \pm 3	30 \pm 2	34 \pm 2	55 \pm 3	48 \pm 2	34 \pm 2	35 \pm 4	51 \pm 2	54 \pm 2	50 \pm 2	36 \pm 2
	84	48 \pm 5	51 \pm 2	44 \pm 2	38 \pm 2	48 \pm 2	51 \pm 2	37 \pm 2	35 \pm 2	56 \pm 3	58 \pm 2	45 \pm 2	51 \pm 2
	112	47 \pm 5	61 \pm 4	49 \pm 2	49 \pm 2	55 \pm 2	59 \pm 3	41 \pm 2	41 \pm 2	58 \pm 3	60 \pm 2	41 \pm 2	51 \pm 2
residual fraction	0	20 \pm 6	31 \pm 5	22 \pm 3	14 \pm 5	33 \pm 2	9 \pm 17	29 \pm 3	40 \pm 2	27 \pm 3	19 \pm 7	26 \pm 3	18 \pm 4
	7	42 \pm 2	42 \pm 4	35 \pm 2	31 \pm 3	25 \pm 4	27 \pm 3	30 \pm 3	39 \pm 2	38 \pm 2	39 \pm 2	38 \pm 2	21 \pm 3
	14	33 \pm 4	42 \pm 4	25 \pm 3	42 \pm 2	35 \pm 3	33 \pm 4	34 \pm 3	37 \pm 3	41 \pm 2	37 \pm 2	31 \pm 2	35 \pm 2
	35	39 \pm 3	39 \pm 5	39 \pm 2	37 \pm 2	45 \pm 2	45 \pm 2	38 \pm 3	38 \pm 3	39 \pm 3	37 \pm 2	38 \pm 2	24 \pm 3
	56	49 \pm 2	40 \pm 5	37 \pm 2	39 \pm 2	40 \pm 3	46 \pm 2	45 \pm 3	43 \pm 4	44 \pm 2	41 \pm 2	29 \pm 2	47 \pm 2
	84	46 \pm 5	40 \pm 4	43 \pm 2	50 \pm 2	49 \pm 2	46 \pm 2	43 \pm 2	46 \pm 2	40 \pm 3	38 \pm 2	41 \pm 2	31 \pm 3
	112	47 \pm 5	32 \pm 6	44 \pm 2	43 \pm 2	42 \pm 2	38 \pm 3	40 \pm 2	39 \pm 2	39 \pm 3	36 \pm 2	46 \pm 2	32 \pm 2

56 Table S8. Evolution of mean values (\pm standard error) of stable iodine w-soluble, organic and residual fractions (%) of unspiked humus (R3 and
 57 R4).

	Time (d)	CHP40 (mull)		CHS35 (moder)		HET25 (mull)		HET29 (moder)		SP25 (mull)		SP63 (moder)	
		R3	R4	R3	R4	R3	R4	R3	R4	R3	R4	R3	R4
w-soluble fraction	0	4.4 \pm 0.3	4.7 \pm 0.3	7.4 \pm 0.5	7.2 \pm 0.5	4.3 \pm 0.2	4.5 \pm 0.2	4.5 \pm 0.2	4.6 \pm 0.2	4.2 \pm 0.6	4.0 \pm 0.5	3.4 \pm 0.2	3.2 \pm 0.2
	112	6.6 \pm 0.3	6.7 \pm 0.3	11.0 \pm 0.8	11.1 \pm 0.9	2.2 \pm 0.1	2.2 \pm 0.1	12.2 \pm 0.9	14 \pm 1	3.3 \pm 0.4	3.4 \pm 0.4	9.7 \pm 0.6	9.7 \pm 0.6
organic fraction	0	51 \pm 6	49 \pm 5	51 \pm 4	52 \pm 4	55 \pm 6	56 \pm 5	56 \pm 7	59 \pm 8	72 \pm 12	66 \pm 10	52 \pm 3	50 \pm 3
	112	55 \pm 3	58 \pm 6	45 \pm 3	45 \pm 3	67 \pm 8	64 \pm 4	40 \pm 3	49 \pm 4	49 \pm 6	53 \pm 6	57 \pm 4	57 \pm 4
residual fraction	0	45 \pm 6	46 \pm 5	41 \pm 4	41 \pm 4	41 \pm 6	40 \pm 5	40 \pm 7	37 \pm 8	23 \pm 12	30 \pm 10	45 \pm 3	47 \pm 3
	112	39 \pm 3	36 \pm 6	44 \pm 3	44 \pm 3	31 \pm 8	34 \pm 3	48 \pm 3	37 \pm 4	47 \pm 6	44 \pm 6	33 \pm 4	33 \pm 4

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59 Table S9. The rate constant (k) and the total percentage of ^{125}I final (t-final) determined by
 60 modelling and the total percentage of ^{125}I after 125 days of incubation (t-125) measured for
 61 volatilized fraction according to study conditions. Only the rate constant of SP63 was
 62 determined by linearization of volatilized iodine during the incubation period. Uncertainties
 63 correspond to standard error.

Condition	Modelling		R^2
	$k_v (\text{d}^{-1})$	$A_v^f (\%)$	
CHP40	0.032 ± 0.005	0.022 ± 0.006	0.97
CHS35	0.024 ± 0.012	0.037 ± 0.006	0.97
HET25	0.011 ± 0.005	0.024 ± 0.004	0.95
HET29	0.016 ± 0.004	0.056 ± 0.011	0.97
SP25	0.017 ± 0.014	0.024 ± 0.015	0.98
SP63*	0.026 ± 0.014	-	0.99

*determined by linearization; - : not determinable

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