

1 **Supplementary**

2

Table S1 Parameters of models in the east

	Equation	a	b	c	Adj. R ²	DF	Mean Square	F Value	Prob>F
SD	$y = a-b*c^x$	0.20304	-2.56749	0.94948	0.21794	3	4.38816	1209.831	<0.01
MS	$y = a-b*c^x$	0.15721	-2.32398	0.94737	0.27804	3	2.6277	1605.216	<0.01
Pp8	$y = a-b*c^x$	0.10484	-3.32276	0.95145	0.23924	3	2.19772	312.0703	<0.01
Pc7	$y = a-b*c^x$	0.07635	-6.14831	0.9442	0.25567	3	1.68345	200.9151	<0.01
Pc8	$y = a-b*c^x$	0.07345	-3.92797	0.9511	0.26759	3	1.74043	214.6014	<0.01
Tp7	$y = a-b*c^x$	0.15248	-0.66032	0.97544	0.11036	3	4.09682	297.4065	<0.01
Tp9	$y = a-b*c^x$	0.09883	-3.20781	0.94856	0.11919	3	1.68141	168.0879	<0.01
Tc7	$y = a-b*c^x$	0.06745	-2.44049	0.95524	0.14155	3	1.34395	115.237	<0.01

3

4

Table S2 Parameters of models in the west

	Equation	a	b1	b2	Adj. R ²	DF	Mean Square	F Value	Prob>F
SD	$y = a+b1*x+b2*x^2$	0.19016	0.00366	-1.46E-05	0.06674	2	0.09185	9.01004	<0.01
MS	$y = a+b1*x+b2*x^2$	0.06655	0.00503	-2.57E-05	0.06199	3	0.06078	6.0002	<0.01
Tp6	$y = a+b1*x+b2*x^2$	-0.13544	0.00639	-2.62E-05	0.09404	2	0.33036	12.88546	<0.01
Tp7	$y = a+b1*x+b2*x^2$	0.0644	0.00425	-1.60E-05	0.03396	2	0.12112	5.02548	<0.01
Tc6	$y = a+b1*x+b2*x^2$	-0.06019	0.00716	-2.83E-05	0.06071	2	0.36052	8.40094	<0.01
Tc7	$y = a+b1*x+b2*x^2$	-0.05485	0.00643	-2.47E-05	0.07325	2	0.27795	10.0495	<0.01
Pp9	$y = a+b1*x$	0.2356	-5.29E-04		0.04693	1	0.13637	12.27533	<0.01
Pc5	$y = a+b1*x$	0.12595	6.51E-04		0.04694	1	0.20685	12.27934	<0.01

5

6