Appendix

Tables of the results related to multiple tests as shown in Figures 2-8. As for the Knox test with critical limits δ_T and δ_S (in years and km, respectively), table reports the realization of the test statistic **T**, its expected value and the estimated P-value. As for a Jacquez test having fixed value *k*, table reports the realization of the test statistics **T**, its expected value, the estimated P-value, the average spatial distance (in km) and the average temporal distance (in years) of the *k*-nearest neighbour. The P-value is red when the null hypothesis is rejected at a significance level of 5%. Normal approximation of the P-values is marked by *; the Monte Carlo approximation is named M P-value.

Table A1

Knox's test: MR1, $M_w \geq 4.5$

δ_S		δ_T					
		≤1	≤2	≤5	≤10	≤20	≤40
≤2	*Pairs*	1	1	4	5	5	7
	Expected	0.165	0.291	0.722	1.376	2.728	5.195
	P-value	0.0820	0.144	0.0036	0.0081	0.100	0.211
≤4	*Pairs*	3	5	9	11	13	17
	Expected	0.447	0.789	1.960	3.736	7.405	14.100
	P-value	0.0059	7.51E-4	1.22 E-4	0.0011	0.0295	0.216
≤10	*Pairs*	7	11	23	39	54*	79*
	Expected	2.024	3.572	8.871	16.909	33.519	63.823
	P-value	0.0030	7.71 E-4	3.68 E-5	2.12 E-6	0.0180	0.184
≤20	*Pairs*	12	17	38*	67*	116*	185*
	Expected	4.790	8.453	20.991	40.010	79.314	151.023
	P-value	0.0027	0.0046	0.0034	0.0049	0.0274	0.161
≤40	*Pairs*	15	25	63*	112*	228*	389*
	Expected	11.145	19.668	48.841	93.094	184.549	351.396
	P-value	0.129	0.118	0.113	0.180	0.135	0.302

MR, macroregions.

Table A2

Jacquez test: MR1, $M_w \geq 4.5$

k	1	2	3	4	5	6	7	8	9
T	2.5	6.5	13.5	20.5	29.5	39.	46.5	51.	61.
Expected	0.551	2.112	4.682	8.262	12.850	18.449	25.056	32.673	41.299
M P-value	0.020	0.004	0.001	0.001	0.001	0.001	0.001	0.001	0.002
$\hat{d}_k^S$	7.032	10.130	12.523	14.934	17.029	18.806	20.551	22.650	24.289
$\hat{d}_k^T$	1.874	3.534	5.968	8.685	10.304	13.355	14.328	15.509	17.971

k	10	11	20	30	40	50
T	72.	89.5	251.	495.	848.	1279.
Expected	50.935	61.579	202.804	455.608	809.346	1264.0
M P-value	0.002	0.001	0.001	0.013	0.022	0.220
$\hat{d}_k^S$	26.012	27.466	45.111	63.656	93.838	117.330
$\hat{d}_k^T$	20.044	21.255	32.155	42.548	52.868	62.241

MR, macroregions.

Table A3

Knox's test: MR1, $M_w \geq 5.3$

δ_S		δ_T								
		≤1	≤2	≤5	≤10	≤20	≤30	≤40	≤70	≤100
≤2	*Pairs*	1	1	1	1	1	1	1	1	1
	Expected	0.0190	0.0190	0.0333	0.0667	0.129	0.210	0.281	0.476	0.614
	M P-value	0.024	0.019	0.036	0.066	0.130	0.229	0.273	0.470	0.610
≤4	*Pairs*	1	1	1	1	1	1	1	2	2
	Expected	0.571	0.571	0.100	0.200	0.386	0.629	0.843	1.429	1.843
	M P-value	0.065	0.059	0.102	0.211	0.334	0.535	0.647	0.470	0.691
≤10	*Pairs*	1	1	1	1	1	1	1	4	4
	Expected	0.133	0.133	0.233	0.467	0.897	1.467	1.967	3.333	4.855
	M P-value	0.119	0.126	0.226	0.388	0.623	0.802	0.906	0.464	0.748
≤20	*Pairs*	2	2	2	2	3	5	6	12	14
	Expected	0.315	0.343	0.577	1.200	2.314	3.771	5.057	8.571	11.057
	M P-value	0.031	0.028	0.112	0.328	0.414	0.278	0.383	0.099	0.153
≤40	*Pairs*	2	2	2	2	6	11	12	19	23
	Expected	0.629	0.629	1.100	2.200	4.243	6.914	9.271	15.714	20.271
	M P-value	0.110	0.135	0.303	0.684	0.225	0.055	0.169	0.148	0.202
≤70	*Pairs*	2	2	2	4	8	14	19	30	37
	Expected	0.990	0.990	1.733	3.467	6.686	10.895	14.610	24.762	31.943
	M P-value	0.269	0.273	0.549	0.457	0.321	0.142	0.076	0.078	0.075
≤100	*Pairs*	2	2	2	5	10	18	23	38	46
	Expected	1.352	1.352	2.367	4.733	9.129	14.876	19.948	33.810	43.614
	M P-value	0.416	0.424	0.762	0.543	0.406	0.156	0.176	0.116	0.235

MR, macroregions.

Table A4

Jacquez test: MR1, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	1.	2.5	5.	9.5	15.	22.	29.5	37.5	46.5	55.5
Expected	0.525	2.100	4.725	8.400	13.125	18.900	25.725	33.600	42.525	52.500
M P-value	0.299	0.421	0.444	0.314	0.257	0.154	0.118	0.107	0.133	0.169
$\hat{d}_k^S$	13.459	27.698	36.721	46.682	57.689	76.762	93.318	100.384	130.619	145.562
$\hat{d}_k^T$	11.647	19.833	30.600	37.446	40.715	50.853	58.659	64.874	75.995	82.049

MR, macroregions.

Table A5

Knox's test : MR2, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100
≤2	*Pairs*	8	16	30	52	107*	145*	160*	171*	178*
	Expected	1.921	4.121	10.223	19.869	40.046	75.285	104.571	128.949	150.510
	P-value	5.14E-4	4.36E-6	2.61E-7	0.10E-8	4.19E-9	2.93E-4	0.0211	0.0980	0.227
≤4	*Pairs*	9	22	46	81*	153*	222*	249*	270*	284*
	Expected	3.188	6.839	16.964	32.970	66.453	124.93	173.523	213.976	249.754
	P-value	0.0036	2.06E-7	0.30E-8	1.35E-7	1.78E-7	6.52E-4	0.0325	0.126	0.269
≤10	*Pairs*	15	36	78*	131*	256*	423*	526*	591*	656*
	Expected	7.769	16.664	41.339	80.343	161.934	304.427	422.849	521.426	608.612
	P-value	0.0100	1.94E-5	1.63E-4	0.0024	0.0028	0.0273	0.115	0.247	0.341
≤20	*Pairs*	24	61*	142*	242*	466*	793*	1021*	1203*	1357*
	Expected	17.802	38.188	94.731	184.113	371.085	697.617	968.990	1194.9	1394.7
	P-value	0.0773	0.0047	0.0065	0.0482	0.0808	0.2230	0.3810	0.4840	0.5630
≤40	*Pairs*	46*	105*	252*	430*	860*	1542*	2070*	2488*	2842*
	Expected	36.503	78.301	194.239	377.509	760.881	1430.4	1986.8	2450.0	2859.7
	P-value	0.109	0.0312	0.0381	0.195	0.206	0.31	0.394	0.460	0.516
≤60	*Pairs*	61*	138*	343*	605*	1191*	2188*	3014*	3661*	4197*
	Expected	53.743	115.283	285.980	555.809	1120.2	2106.0	2925.2	3607.2	4210.3
	P-value	0.234	0.119	0.103	0.283	0.339	0.389	0.420	0.460	0.509

MR, macroregions.

Table A6

Jacquez test: MR2, $M_w \geq 4.5$

k	1	2	3	4	5	10	20	30
T	1.5	7.	16.	25.	33.5	96.	303.	564.5
Expected	0.909	2.822	5.741	9.664	14.591	54.299	209.065	464.299
M P-value	0.255	0.004	0.001	0.001	0.001	0.001	0.001	0.001
$\hat{d}_k^S$	4.493	6.872	8.911	10.750	12.281	18.191	28.533	37.101
$\hat{d}_k^T$	1.103	1.912	2.966	3.867	4.649	8.673	16.780	23.355

k	40	50	60	70	80	90	100
T	929.5	303.	1893.5	2548.	3304.5	4171.	5058.5
Expected	820.	209.065	1832.8	2489.9	3247.5	4105.5	5064.0
M P-value	0.001	0.001	0.027	0.041	0.091	0.093	0.483
$\hat{d}_k^S$	48.341	28.533	74.155	83.761	93.120	103.762	113.380
$\hat{d}_k^T$	32.224	16.780	48.060	53.864	59.579	65.472	70.685

MR, macroregions.

Table A7

Knox's test : MR2, $M_w \geq 5.3$

δ_S		δ_T							
		≤1	≤2	≤5	≤10	≤20	≤50	≤70	≤100
≤2	*Pairs*	1	1	1	1	1	2	2	2
	Expected	0.0185	0.462	0.102	0.194	0.369	0.812	1.172	1.588
	M P-value	0.012	0.042	0.113	0.177	0.309	0.183	0.353	0.551
≤4	*Pairs*	1	1	1	1	1	3	3	3
	Expected	0.0246	0.0615	0.135	0.258	0.492	1.083	1.563	2.117
	M P-value	0.027	0.049	0.132	0.230	0.446	0.079	0.165	0.315
≤10	*Pairs*	1	1	1	1	3	6	9	9
	Expected	0.0923	0.231	0.508	0.969	1.846	4.062	5.862	7.938
	M P-value	0.097	0.187	0.437	0.676	0.289	0.176	0.080	0.346
≤20	*Pairs*	1	3	6	7	12	19	26	29
	Expected	0.283	0.708	1.557	2.972	5.662	12.455	17.975	24.345
	M P-value	0.257	0.050	0.005	0.03	0.014	0.027	0.023	0.1100
≤40	*Pairs*	1	3	6	9	16	28	42	49
	Expected	0.523	1.308	2.877	5.492	10.462	23.015	33.215	44.985
	M P-value	0.469	0.139	0.045	0.087	0.058	0.119	0.049	0.164
≤60	*Pairs*	1	3	7	11	19	34	53	65
	Expected	0.788	1.969	4.332	8.271	15.754	34.258	50.018	67.742
	M P-value	0.622	0.295	0.112	0.152	0.190	0.574	0.283	0.734
≤80	*Pairs*	1	3	7	11	21	42	62	76
	Expected	0.874	2.185	4.806	9.175	17.477	38.449	55.489	75.151
	M P-value	0.694	0.345	0.166	0.275	0.189	0.228	0.128	0.435

MR, macroregions.

Table A8

Jacquez test: MR2, $M_w \geq 5.3$									
k	1	2	3	4	5	6	7	8	9
T	1.5	3.5	8.	11.	17.5	25.	29.	34.5	44.
Expected	0.52	2.08	4.68	8.32	13.00	18.72	25.48	33.28	42.12
M P-value	0.105	0.146	0.047	0.129	0.054	0.034	0.134	0.348	0.307
$\hat{d}_k^S$	14.484	23.019	30.938	41.336	58.775	66.726	70.224	74.012	77.562
$\hat{d}_k^T$	7.132	12.754	20.457	29.295	34.571	42.121	48.834	55.600	62.653
k	10	15	20						
T	54.5	110.	208.5						
Expected	52.00	117.00	208.00						
M P-value	0.230	0.906	0.471						
$\hat{d}_k^S$	81.118	101.831	165.502						
$\hat{d}_k^T$	71.006	119.257	152.760						

MR, macroregions.

Table A9

Knox's test : MR3, $M_w \geq 4.5$							
		δ_T					
δ_S		≤1	≤2	≤5	≤10	≤20	≤40
≤2	*Pairs*	4	5	10	11	13	17
	Expected	0.427	0.804	1.923	3.816	7.387	13.928
	P-value	5.37 E-4	8.15 E-4	1.97 E-5	0.0020	0.0290	0.203
≤4	*Pairs*	4	5	14	17	23	40*
	Expected	1.034	1.944	4.661	9.228	17.866	33.689
	P-value	0.0127	0.0312	2.26 E-4	0.0130	0.116	0.194
≤10	*Pairs*	14	20	42	52*	86*	146*
	Expected	4.324	8.132	19.452	38.599	74.726	140.910
	P-value	1.08E-4	2.14 E-4	4.52 E-6	0.0559	0.210	0.415
≤20	*Pairs*	24	37*	83*	132*	248*	433*
	Expected	13.231	24.883	59.518	118.105*	228.644*	431.152*
	P-value	0.0037	0.0235	0.0209	0.246	0.298	0.489
≤40	*Pairs*	54*	105*	227*	397*	705*	1297*
	Expected	40.597	76.352	182.623	362.390	701.565	1322.93
	P-value	0.0540	0.0176	0.0621	0.262	0.487	0.555
≤60	*Pairs*	76*	154*	342*	630*	1153*	2167*
	Expected	70.010	131.671	314.940	624.955	1209.873	2281.439
	P-value	0.312	0.142	0.279	0.477	0.632	0.642

MR, macroregions.

Table A10

Jacquez test: MR3, $M_w \geq 4.5$

k	1	2	3	4	5	10	20	30	40	50
T	1.5	5.	9.5	13.5	23	68.5	249.5	512.5	859.	1303.
Expected	0.568	2.141	4.717	8.297	12.881	50.859	202.109	453.75	805.781	1258.2
M P-value	0.131	0.029	0.014	0.028	0.003	0.005	0.001	0.002	0.012	0.058
$\hat{d}_k^S$	6.302	9.949	12.458	14.831	17.007	25.593	36.885	44.930	53.124	61.689
$\hat{d}_k^T$	0.831	1.576	2.211	3.147	3.840	8.169	15.866	24.148	30.955	38.321
k	60	70	80	90	100	110	120	130	140	150
T	1859.5	2557.	3337.5	4221.5	5139.	6199.5	7275.5	8431.	9676.5	11102.
Expected	1811.0	2464.219	3217.8	4071.8	5026.2	6080.9	7236.1	8491.6	9847.6	11303.9
M P-value	0.055	0.011	0.003	0.003	0.020	0.038	0.274	0.697	0.912	0.906
$\hat{d}_k^S$	71.491	81.694	92.301	104.040	115.78	112.909	129.116	136.078	143.255	152.520
$\hat{d}_k^T$	45.013	52.550	57.973	62.679	67.986	72.568	77.329	82.319	88.154	92.582

MR, macroregions.

Table A11

Knox's test : MR3, $M_w \geq 5.3$

δ_S		δ_T							
		≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80
≤4	*Pairs*	0	0	0	0	0	1	2	2
	Expected	0.025	0.046	0.108	0.196	0.353	0.642	0.999	1.220
	M P-value	1.	1.	1.	1.	1.	0.519	0.266	0.366
≤10	*Pairs*	2	2	2	2	2	3	4	5
	Expected	0.139	0.264	0.611	1.110	1.998	3.636	5.662	6.911
	M P-value	0.009	0.027	0.105	0.294	0.623	0.720	0.876	0.890
≤20	*Pairs*	3	3	3	4	5	11	20	23
	Expected	0.514	0.977	2.263	4.114	7.406	13.474	20.983	25.611
	M P-value	0.014	0.072	0.383	0.579	0.900	0.810	0.627	0.767
≤40	*Pairs*	3	3	3	8	15	30	49	58
	Expected	1.224	2.327	5.388	9.796	17.633	32.082	49.959	60.980
	M P-value	0.122	0.439	0.933	0.792	0.805	0.706	0.698	0.709
≤60	*Pairs*	3	3	5	16	29	54	84	103
	Expected	2.245	2.245	9.878	17.959	32.327	58.816	91.592	111.796
	M P-value	0.383	0.837	0.983	0.766	0.784	0.809	0.859	0.898
≤80	*Pairs*	4	5	11	26	47	90	135	158
	Expected	3.306	6.282	14.547	26.449	47.608	86.620	134.890	164.645
	M P-value	0.445	0.797	0.922	0.591	0.563	0.330	0.472	0.764

MR, macroregions.

Table A12

Jacquez test: MR3, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	1.5	3.	5.	10.	14.	18.5	24.5	30.5	37.	49.
Expected	0.510	2.041	4.592	8.163	12.755	18.367	25.000	32.653	41.327	51.020
M P-value	0.121	0.255	0.417	0.259	0.370	0.493	0.543	0.709	0.861	0.640
$\hat{d}_k^S$	14.904	20.789	26.228	31.794	38.744	42.603	46.728	51.311	55.972	60.443
$\hat{d}_k^T$	3.820	9.330	12.418	15.322	22.554	27.085	32.404	36.763	40.262	44.968

MR, macroregions.

Table A13

Knox's test : MR4, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40
≤2	*Pairs*	13	13	19	27	39*	65*
	Expected	1.789	3.577	8.644	16.827	31.944	55.577
	P-value	3.33E-8	5.87E-5	0.0011	0.0106	0.200	0.228
≤4	*Pairs*	17	20	33	48*	72*	127*
	Expected	3.800	7.595	18.354	35.729	67.829	118.010
	P-value	3.44E-7	8.82E-5	9.96E-4	0.0658	0.375	0.328
≤10	*Pairs*	29	46*	84*	136*	244*	438*
	Expected	14.456	29.055	70.217	136.689	259.493	451.470
	P-value	3.94E-4	0.0047	0.131	0.513	0.664	0.590
≤20	*Pairs*	61*	102*	209*	388*	709*	1234*
	Expected	40.657	81.265	196.395	382.315	725.792	1262.745
	P-value	0.0052	0.0598	0.326	0.456	0.572	0.574
≤40	*Pairs*	141*	258*	590*	1109*	2106*	3585*
	Expected	116.776	233.414	564.096	1098.105	2084.654	3626.919
	P-value	0.0796	0.219	0.360	0.468	0.466	0.539
≤60	*Pairs*	225*	438*	987*	1862*	3484*	5964*
	Expected	193.174	386.121	933.144	1816.516	3448.495	5999.754
	P-value	0.108	0.145	0.320	0.418	0.465	0.521

MR, macroregions.

Table A14

Jacquez test: MR4, $M_w \geq 4.5$									
k	1	2	3	4	5	10	20	30	40
T	0.5	3	10.5	20	28.5	69.5	214	467	847.5
Expected	0.658	2.319	4.983	8.649	13.32	51.70	203.7	455.9	808.4
M P-value	0.629	0.297	0.002	0.001	0.001	0.007	0.214	0.239	0.057
$\hat{d}_k^S$	4.633	6.550	7.914	9.293	10.54	15.84	24.70	31.63	38.24
$\hat{d}_k^T$	0.564	1.059	1.536	2.053	2.572	5.538	10.63	15.24	19.56
k	50	60	70	80	90	100	150		
T	1315	1871	2521	3255.5	4108.5	5052.5	11273.5		
Expected	1261.1	1814.1	2467.4	3220.9	4074.7	5028.8	11303.0		
M P-value	0.033	0.035	0.081	0.185	0.183	0.245	0.551		
$\hat{d}_k^S$	45.36	52.14	60.90	67.76	73.27	80.09	122.1		
$\hat{d}_k^T$	23.94	28.18	33.18	38.20	42.99	47.69	60.99		

MR, macroregions.

Table A15

Knox's test : MR4, $M_w \geq 5.3$									
δ_S		δ_T							
		≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80
≤10	*Pairs*	0	1	2	2	3	5	6	6
	Expected	0.133	0.222	0.822	1.333	2.467	4.111	6.311	8.689
	M P-value	1.	0.214	0.190	0.387	0.458	0.406	0.650	0.915
≤20	*Pairs*	0	1	2	2	5	12	23	32
	Expected	0.515	0.859	3.177	5.152	9.530	15.884	24.384	33.571
	M P-value	1.	0.576	0.857	0.975	0.979	0.905	0.673	0.680
≤40	*Pairs*	1	2	3	6	19	37	62	84
	Expected	1.309	2.182	8.073	13.091	24.218	40.364	61.964	85.309
	M P-value	0.778	0.694	0.994	0.995	0.927	0.765	0.495	0.550
≤60	*Pairs*	1	2	6	16	40	65	96	133
	Expected	2.067	3.444	12.744	20.667	38.233	63.722	97.822	134.678
	M P-value	0.936	0.921	0.999	0.906	0.362	0.469	0.568	0.591
≤80	*Pairs*	1	3	11	22	49	82	121	165
	Expected	2.576	4.293	15.884	25.758	47.652	79.419	121.919	167.854
	M P-value	0.974	0.894	0.969	0.831	0.385	0.339	0.515	0.627

MR, macroregions.

Table A16

Jacquez test: MR4, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	2.5	4.	5.5	8.	13.	22.	30.	36.5	43.	53.5
Expected	0.511	2.045	4.602	8.182	12.784	18.409	25.057	32.727	41.420	51.136
M P-value	0.012	0.084	0.305	0.540	0.458	0.158	0.094	0.209	0.351	0.283
$\hat{d}_k^S$	13.180	19.808	25.995	34.556	38.150	47.403	52.679	56.839	63.378	68.873
$\hat{d}_k^T$	3.730	8.554	14.498	19.288	23.872	30.341	33.578	38.775	42.282	46.763

k	15	20	30
T	120.5	206.	458.
Expected	115.057	204.546	460.227
M P-value	0.196	0.415	0.547
$\hat{d}_k^S$	82.698	93.922	139.174
$\hat{d}_k^T$	69.735	96.487	150.365

MR, macroregions.

Table A17

Knox's test : MR5, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40
≤2	*Pairs*	2	2	2	2	2	5
	Expected	0.108	0.184	0.409	0.797	1.567	2.958
	P-value	0.0028	0.0079	0.0362	0.119	0.336	0.129
≤4	*Pairs*	3	3	3	3	3	7
	Expected	0.240	0.409	0.909	1.772	3.483	6.573
	P-value	0.0010	0.0046	0.0391	0.183	0.568	0.411
≤10	*Pairs*	10	13	17	21	24	36*
	Expected	1.200	2.043	4.545	8.861	17.416	32.865
	P-value	3.20E-7	1.50E-7	3.74E-6	2.51E-4	0.0642	0.286
≤20	*Pairs*	12	18	30	45*	57*	95*
	Expected	3.277	5.577	12.409	24.191	47.545	89.722
	P-value	9.98E-5	1.46E-5	1.44E-5	0.0104	0.242	0.413
≤40	*Pairs*	18	28	59*	88*	152*	260*
	Expected	9.326	15.873	35.318	68.851	135.320	255.362
	P-value	0.0055	0.0028	0.0111	0.152	0.315	0.471
≤60	*Pairs*	19	36*	78*	122*	244*	430*
	Expected	15.591	26.537	59.045	115.106	226.230	426.919
	P-value	0.192	0.122	0.115	0.407	0.374	0.488
≤80	*Pairs*	24	44*	88*	150*	313*	583*
	Expected	21.052	35.832	79.727	155.423	305.472	576.455
	P-value	0.255	0.212	0.342	0.557	0.459	0.481

MR, macroregions.

Table A18

Jacquez test: MR5, $M_w \geq 4.5$

k	1	2	3	4	5	10	20	30	40	50
T	3.5	7.5	12.5	19.5	25.5	73.5	222.	453.	810.	1255.
Expected	0.563	2.136	4.722	8.318	12.926	51.136	203.409	456.818	811.364	1267.045
M P-value	0.001	0.001	0.001	0.001	0.001	0.001	0.041	0.574	0.487	0.595
$\hat{d}_k^S$	10.405	15.142	18.218	21.252	25.296	36.808	62.258	76.710	89.183	101.9
$\hat{d}_k^T$	2.309	4.187	6.181	8.124	11.022	22.561	46.148	60.814	77.669	91.015

MR, macroregions.

Table A19

Knox's test : MR5, $M_w \geq 5.3$

δ_S		δ_T					
		≤5	≤10	≤20	≤40	≤60	≤80
≤10	*Pairs*	0	0	0	1	1	1
	Expected	0.044	0.199	0.397	0.574	1.015	1.279
	M P-value	1.	1.	1.	0.476	0.723	0.725
≤20	*Pairs*	0	0	1	2	2	3
	Expected	0.088	0.397	0.794	1.147	2.029	2.559
	M P-value	1.	1.	0.546	0.309	0.658	0.499
≤40	*Pairs*	1	2	4	5	11	13
	Expected	0.441	1.985	3.971	5.735	10.147	12.794
	M P-value	0.428	0.620	0.593	0.718	0.410	0.509
≤60	*Pairs*	1	2	5	6	13	16
	Expected	0.559	2.515	5.029	7.265	12.853	16.206
	M P-value	0.510	0.763	0.582	0.780	0.496	0.535
≤80	*Pairs*	1	3	8	9	17	22
	Expected	0.779	3.507	7.015	10.132	17.926	22.603
	M P-value	0.635	0.765	0.367	0.736	0.613	0.585

MR, macroregions.

Table A20

Jacquez test: MR5, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	0.5	1.5	5.	7.5	12.	16.5	26.5	35.5	44.	54.
Expected	0.531	2.125	4.781	8.500	13.281	19.125	26.031	34.000	43.031	53.125
M P-value	0.646	0.778	0.451	0.765	0.781	0.913	0.425	0.321	0.395	0.426
$\hat{d}_k^S$	29.247	41.119	55.723	66.640	76.871	82.616	89.875	96.659	106.000	118.892
$\hat{d}_k^T$	12.132	27.445	36.872	66.925	75.274	81.082	86.866	104.419	115.645	121.824

MR, macroregions.

Table A21

Knox's test : MR6, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40
≤2	*Pairs*	0	0	0	0	2	4
	Expected	0.107	0.207	0.472	0.984	1.813	3.236
	P-value	0.551	0.594	0.688	0.813	0.407	0.136
≤4	*Pairs*	0	0	2	4	9	12
	Expected	0.279	0.539	1.227	2.558	4.713	8.413
	P-value	0.622	0.708	0.237	0.186	0.0368	0.669
≤10	*Pairs*	2	3	8	16	29*	41*
	Expected	1.245	2.404	5.474	11.412	21.028	37.537
	P-value	0.242	0.327	0.145	0.0943	0.103	0.362
≤20	*Pairs*	5	9	23	50*	80*	130*
	Expected	4.101	7.917	18.027	37.580	69.246	123.614
	P-value	0.311	0.334	0.124	0.111	0.267	0.280
≤40	*Pairs*	11	22*	52*	105*	194*	355*
	Expected	11.316	21.843	49.739	103.689	191.062	341.070
	P-value	0.518	0.490	0.429	0.479	0.474	0.428
≤60	*Pairs*	17	36*	78*	165*	310*	563*
	Expected	17.844	34.443	78.431	163.503	301.276	537.816
	P-value	0.564	0.431	0.509	0.484	0.450	0.407

MR, macroregions.

Table A22

Jacquez test: MR6, $M_w \geq 4.5$

k	1	2	3	4	5	6	7	8	9	10	11
T	0.5	2.5	7.	12.	17.	22.	33.	40.5	49.5	61.5	72.
Expected	0.562	2.135	4.719	8.315	12.921	18.539	25.169	32.809	41.461	51.124	61.798
M P-value	0.578	0.384	0.115	0.086	0.105	0.164	0.040	0.054	0.078	0.034	0.072
$\hat{d}_k^S$	6.249	8.862	11.262	13.277	15.105	17.132	18.761	20.439	21.761	23.117	24.627
$\hat{d}_k^T$	1.850	3.221	4.954	7.193	8.772	11.098	13.139	16.218	19.736	21.773	23.668
k	12	13	14	15	16	17	18	19	20	25	30
T	83.5	95.5	107.5	121.	140.	156.5	179.	197.	214.	328.	472.5
Expected	73.483	86.180	99.888	114.607	130.337	147.079	164.832	183.596	203.371	317.416	456.742
M P-value	0.067	0.109	0.174	0.196	0.127	0.151	0.066	0.079	0.144	0.161	0.102
$\hat{d}_k^S$	25.842	27.091	28.610	30.069	31.889	32.879	34.262	35.785	37.286	44.700	51.579
$\hat{d}_k^T$	24.670	25.971	29.346	30.946	32.502	34.111	36.986	37.905	39.462	47.460	54.765
k	35	40	45	50	55	60	65	70	75	80	85
T	662.	850.	1069.	1326.5	1599.	1874.5	2179.5	2554.5	2909.5	3267.	3648.
Expected	621.348	811.236	1026.4	1266.8	1532.6	1823.6	2139.9	2481.5	2848.3	3240.4	3657.9
M P-value	0.009	0.025	0.039	0.014	0.010	0.078	0.116	0.008	0.014	0.096	0.635
$\hat{d}_k^S$	59.717	67.790	78.113	86.665	98.183	106.247	114.887	125.930	139.076	155.182	171.501
$\hat{d}_k^T$	62.491	70.136	77.696	84.265	90.066	98.815	108.159	123.663	139.843	170.051	231.058

MR, macroregions.

Table A23

Knox's test : MR6, $M_w \geq 5.3$

δ_S		δ_T ≤5	≤10	≤20	≤40	≤60	≤80
≤10	*Pairs*	0	1	1	3	4	4
	Expected	0.232	0.637	1.158	2.316	3.300	4.284
	M P-value	1.	0.489	0.740	0.398	0.404	0.665
≤20	*Pairs*	0	2	2	5	7	8
	Expected	0.463	1.274	2.316	4.632	6.600	8.568
	M P-value	1.	0.366	0.712	0.461	0.505	0.664
≤40	*Pairs*	0	2	3	12	17	21
	Expected	1.095	3.011	5.474	10.947	15.600	20.253
	M P-value	1.	0.863	0.959	0.370	0.353	0.414
≤60	*Pairs*	2	6	10	21	29	34
	Expected	1.726	4.747	8.632	17.263	24.600	31.937
	M P-value	0.588	0.318	0.330	0.127	0.084	0.279
≤80	*Pairs*	3	7	12	23	32	38
	Expected	2.063	5.674	10.316	20.632	29.400	38.168
	M P-value	0.348	0.283	0.299	0.221	0.215	0.541
≤100	*Pairs*	4	10	16	30	41	53
	Expected	2.674	7.353	13.368	26.737	38.100	49.463
	M P-value	0.197	0.061	0.143	0.118	0.196	0.163

MR, macroregions.

Table A24

Jacquez test: MR6, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	0.5	3.5	5.	8.5	13.5	19.	26.5	33.	41.	51.
Expected	0.526	2.105	4.737	8.421	13.158	18.947	25.789	33.684	42.632	52.632
M P-value	0.578	0.156	0.437	0.531	0.432	0.484	0.388	0.569	0.693	0.684
$\hat{d}_k^S$	10.811	16.760	21.692	34.824	41.871	52.286	58.195	64.197	67.310	72.190
$\hat{d}_k^T$	9.351	15.041	23.387	35.532	60.626	74.154	81.506	91.047	103.111	110.321

MR, macroregions.

Table A25

Knox's test : MR7, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100	≤120	≤150	≤200
≤2	*Pairs*	15	27	45	62	83*	99*	119*	138*	144*	153*	157*	160*
	Expected	1.746	3.161	7.462	13.380	25.777	46.196	66.331	85.059	98.210	109.5	124.4	141.2
	P-value	3.54E-10	6.10E-17	4.56E-21	1.70E-22	1.19E-13	1.55E-5	9.45E-4	0.0054	0.0249	0.0436	0.124	0.272
≤4	*Pairs*	18	34	55	75*	116*	154*	185*	211*	226*	238*	270*	277*
	Expected	3.249	5.882	13.884	24.895	47.961	85.953	123.4	158.3	182.7	203.7	231.6	262.6
	P-value	6.93E-9	9.10E-16	2.52E-17	1.27E-11	5.63E-8	7.92E-4	0.0177	0.0726	0.145	0.222	0.220	0.398
≤10	*Pairs*	24	45	81*	112*	190*	291*	386*	517*	568*	620*	731*	786*
	Expected	13.313	16.649	39.300	70.469	135.8	243.3	349.3	448.0	517.2	576.6	655.4	743.4
	P-value	2.33E-5	4.77E-9	3.75E-5	0.0066	0.0365	0.182	0.307	0.224	0.312	0.351	0.276	0.382
≤20	*Pairs*	27	53*	110*	167*	305*	489*	670*	882*	997*	1102*	1273*	1439*
	Expected	17.450	31.593	74.575	133.7	257.6	461.7	662.9	850.1	981.5	1094.1	1243.6	1410.7
	P-value	0.0162	0.0055	0.0155	0.107	0.168	0.376	0.477	0.417	0.464	0.484	0.446	0.453
≤40	*Pairs*	53*	101*	201*	321*	622*	1011	1436*	1800*	2020*	2272*	2637*	3005*
	Expected	36.709	66.463	156.9	281.3	541.9	971.2	1394.6	1788.3	2064.8	2301.7	2616.2	2967.6
	P-value	0.0277	0.0072	0.0644	0.208	0.191	0.403	0.428	0.484	0.554	0.532	0.480	0.468
≤60	*Pairs*	80*	148*	301*	499*	955*	1605*	2274*	2847*	3210*	3634*	4169*	4729*
	Expected	58.106	105.2	248.3	45.274	857.8	1537.4	2207.4	2830.7	3268.3	3643.2	4141.1	4697.4
	P-value	0.0326	0.0178	0.112	0.233	0.244	0.393	0.425	0.485	0.545	0.507	0.483	0.482
≤80	*Pairs*	107*	194*	430*	729*	1387*	2355*	3365*	4252*	4860*	5478*	6315*	7211*
	Expected	88.667	160.5	378.9	679.5	1309.0	2346.0	3368.4	4319.5	4987.3	5559.4	6319.1	7168.0
	P-value	0.133	0.125	0.210	0.325	0.354	0.490	0.503	0.540	0.566	0.538	0.502	0.484

MR, macroregions.

Table A26

Jacquez test: MR7, $M_w \geq 4.5$

k	1	2	3	4	5	6	7	8	9	10	20	30
T	5.	9.5	18.5	30.	41.5	53.	64.	79.	93.	109.5	276.	541.5
Expected	1.143	3.291	6.444	10.603	15.767	21.937	29.111	37.291	46.476	56.667	213.862	471.587
M P-value	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
$\hat{d}_k^S$	6.487	9.129	11.721	13.632	15.234	16.434	17.750	19.123	20.461	21.670	31.899	39.231
$\hat{d}_k^T$	1.119	2.062	2.984	3.765	4.614	5.616	6.320	7.502	8.666	10.310	23.139	33.748
k	40	50	60	70	80	90	100	110	120	130	140	150
T	888.5	1359.5	1937.5	2588.	3342.	4158.	5129.	6192.5	7319.	8461.	9792.	11327.5
Expected	829.841	1288.6	1848.0	2507.8	3268.1	4129.0	5090.5	6152.4	7314.9	8578.0	9941.4	11405.6
M P-value	0.005	0.004	0.007	0.011	0.030	0.272	0.235	0.256	0.393	0.863	0.916	0.760
$\hat{d}_k^S$	46.464	54.082	62.954	71.034	78.165	84.099	91.914	100.693	110.918	119.577	126.992	133.091
$\hat{d}_k^T$	42.544	52.222	61.259	70.612	77.573	84.123	91.874	98.604	108.675	122.038	134.456	160.309

MR, macroregions.

Table A27

Knox's test : MR7, $M_w \geq 5.3$

δ_S		δ_T								
		≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100
≤5	*Pairs*	0	0	0	0	1	2	2	3	4
	Expected	0.062	0.075	0.137	0.257	0.465	0.815	1.214	1.577	1.905
	M P-value	1.	1.	1.	1.	0.386	0.194	0.351	0.173	0.046
≤10	*Pairs*	1	1	1	2	4	7	8	11	13
	Expected	0.341	0.414	0.755	1.413	2.558	4.483	6.676	8.673	10.476
	M P-value	0.295	0.328	0.511	0.456	0.252	0.139	0.346	0.183	0.191
≤20	*Pairs*	2	2	2	4	9	16	20	24	30
	Expected	0.837	1.017	1.854	3.468	6.279	11.003	16.385	21.289	25.714
	M P-value	0.182	0.260	0.554	0.453	0.162	0.065	0.198	0.234	0.151
≤40	*Pairs*	6	9	10	13	23	42	54	65	75
	Expected	2.357	2.862	5.218	9.763	17.674	30.972	46.122	59.925	72.381
	M P-value	0.034	0.004	0.031	0.178	0.092	0.017	0.088	0.234	0.353
≤60	*Pairs*	9	12	16	22	41	68	91	113	130
	Expected	4.248	5.158	9.406	17.599	31.860	55.832	83.141	108.022	130.476
	M P-value	0.024	0.005	0.013	0.140	0.038	0.036	0.134	0.267	0.513
≤80	*Pairs*	11	14	23	35	62	95	135	172	202
	Expected	6.527	7.926	14.453	27.041	48.953	85.725	127.754	165.976	200.476
	M P-value	0.051	0.018	0.007	0.032	0.012	0.094	0.190	0.267	0.417
≤100	*Pairs*	13	16	25	41	72	118	171	216	258
	Expected	8.930	10.844	19.774	36.997	66.977	117.369	174.777	227.083	274.286
	M P-value	0.062	0.022	0.050	0.181	0.187	0.490	0.191	0.251	0.433

MR, macroregions.

Table A28

Jacquez test: MR7, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	0.5	3.	7.	12.	17.5	25.5	32.5	40.5	52.	64.
Expected	0.512	2.048	4.607	8.190	12.798	18.429	25.083	32.762	41.464	51.190
M P-value	0.582	0.252	0.127	0.076	0.061	0.023	0.035	0.040	0.021	0.009
$\hat{d}_k^S$	14.440	21.441	27.052	32.367	37.684	40.830	43.754	47.855	50.969	53.342
$\hat{d}_k^T$	5.457	9.495	12.609	16.381	24.390	31.490	40.212	46.649	52.230	55.628
k	11	12	13	14	15	16	17	18	19	20
T	75.	84.5	98.	109.	123.	137.	152.	169.	184.	203.
Expected	61.940	73.714	86.512	100.333	115.179	131.048	147.941	165.857	184.798	204.762
M P-value	0.014	0.036	0.036	0.108	0.107	0.197	0.282	0.327	0.521	0.563
$\hat{d}_k^S$	56.797	59.305	62.479	65.167	67.927	70.759	73.522	76.344	79.109	81.345
$\hat{d}_k^T$	60.492	62.787	65.892	70.070	77.767	82.458	89.090	95.565	98.954	104.776

MR, macroregions.

Table A29

Knox's test : MR7, $M_w \geq 6.0$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100
≤10	*Pairs*	0	0	0	0	1	1	1	1	1
	Expected	0.132	0.132	0.198	0.198	0.396	0.692	1.022	1.286	1.385
	M P-value	1.	1.	1.	1.	0.345	0.536	0.719	0.836	0.879
≤20	*Pairs*	0	0	0	0	1	1	1	1	1
	Expected	0.264	0.264	0.396	0.396	0.791	1.385	2.044	2.571	2.769
	M P-value	1.	1.	1.	1.	0.576	0.796	0.942	0.984	0.989
≤40	*Pairs*	2	2	2	2	5	7	7	7	7
	Expected	0.967	0.967	1.451	1.451	2.901	5.077	7.495	9.429	10.154
	M P-value	0.206	0.211	0.430	0.448	0.131	0.218	0.708	0.956	0.984
≤60	*Pairs*	3	3	4	4	9	14	15	16	17
	Expected	1.978	1.978	2.967	2.967	5.934	10.385	15.330	19.286	20.769
	M P-value	0.272	0.279	0.325	0.323	0.065	0.072	0.639	0.963	0.974
≤80	*Pairs*	4	4	6	6	12	18	20	22	24
	Expected	2.681	2.681	4.022	4.022	8.044	14.077	20.780	26.143	28.154
	M P-value	0.228	0.221	0.093	0.086	0.010	0.041	0.744	0.986	0.996
≤100	*Pairs*	4	4	6	6	12	19	23	26	28
	Expected	3.165	3.165	4.747	4.747	9.495	16.615	24.527	30.857	33.231
	M P-value	0.418	0.415	0.243	0.221	0.054	0.116	0.885	0.996	0.998

MR, macroregions.

Table A30

Knox's test : MR8, $M_w \geq 4.5$

δ_S		δ_T ≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100
≤2	*Pairs*	0	0	3	4	11	14	14	16	17
	Expected	0.272	0.576	1.334	2.340	4.305	7.125	9.359	12.318	14.649
	P-value	0.619	0.719	0.0987	0.149	0.0033	0.0107	0.0738	0.149	0.262
≤4	*Pairs*	2	2	6	10	18	29	31	33*	34*
	Expected	0.543	1.152	2.669	4.681	8.610	14.250	18.717	24.635	29.297
	P-value	0.0607	0.215	0.0368	0.0152	0.0025	2.88E-4	0.0045	0.0687	0.225
≤10	*Pairs*	4	4	13	25	42*	69*	78*	91*	106*
	Expected	1.802	3.824	8.855	15.531	28.570	47.282	62.108	81.745	97.213
	P-value	0.0728	0.434	0.0903	0.0128	0.0335	0.0206	0.116	0.289	0.325
≤20	*Pairs*	7	12	31*	51*	92*	142*	176*	221*	265*
	Expected	4.827	10.241	23.714	41.593	76.513	126.626	166.330	218.920	260.345
	P-value	0.164	0.281	0.136	0.176	0.176	0.274	0.385	0.480	0.462
≤40	*Pairs*	16	25*	69*	117*	209*	352*	458*	586*	698*
	Expected	13.159	27.920	64.651	113.397	208.600	345.226	453.473	596.850	709.789
	P-value	0.213	0.654	0.381	0.439	0.496	0.458	0.479	0.539	0.537

MR, macroregions.

Table A31

Jacquez test: MR8, $M_w \geq 4.5$

k	1	2	3	4	5	6	7	8	9	10
T	1.	3.	8.	14.	16.	21.	29.	39.	49.	60.
Expected	0.592	2.191	4.798	8.412	13.033	18.662	25.289	32.941	41.592	51.25
M P-value	0.334	0.283	0.047	0.030	0.164	0.252	0.192	0.096	0.085	0.069
$\hat{d}_k^S$	7.890	12.396	15.625	18.016	21.009	23.269	25.251	27.356	29.415	31.100
$\hat{d}_k^T$	1.598	2.658	4.537	5.955	6.834	7.657	9.093	9.981	11.380	12.687
k	11	12	13	14	15	16	17	18	19	20
T	70.	80.5	96.	111.5	121.5	138.	155.	174.	197.	217.5
Expected	61.915	73.588	86.268	99.956	114.651	130.353	147.063	164.779	183.504	203.235
M P-value	0.116	0.158	0.104	0.075	0.189	0.184	0.190	0.163	0.085	0.077
$\hat{d}_k^S$	32.667	34.311	36.098	37.648	39.100	41.186	43.399	45.534	47.185	49.486
$\hat{d}_k^T$	13.927	15.853	17.643	20.013	21.973	23.518	25.386	27.807	30.141	30.784
k	25	30	35	40	45	50				
T	316.	450.	609.5	790.5	1014.5	1265.				
Expected	317.004	455.956	620.092	809.412	1023.915	1263.603				
M P-value	0.485	0.607	0.702	0.829	0.644	0.392				
$\hat{d}_k^S$	57.267	65.379	74.874	81.923	87.415	92.499				
$\hat{d}_k^T$	34.429	40.422	47.288	51.974	57.973	62.739				

MR, macroregions.

Table A32

Knox's test : MR8, $M_w \geq 5.3$

δ_S		δ_T								
		≤1	≤2	≤5	≤10	≤20	≤40	≤60	≤80	≤100
≤10	*Pairs*	0	0	1	1	1	1	1	2	3
	Expected	0.194	0.249	0.388	0.526	1.025	1.855	2.326	2.935	3.517
	M P-value	1.	1.	0.305	0.428	0.696	0.897	0.934	0.857	0.740
≤20	*Pairs*	1	1	2	2	2	2	2	3	5
	Expected	0.323	0.415	0.646	0.877	1.708	3.092	3.877	4.892	5.862
	M P-value	0.279	0.326	0.097	0.225	0.519	0.856	0.937	0.930	0.765
≤40	*Pairs*	1	1	3	3	3	6	7	9	14
	Expected	0.833	1.135	1.766	2.397	4.668	8.452	10.597	13.372	16.022
	M P-value	0.625	0.706	0.258	0.421	0.890	0.921	0.960	0.975	0.799
≤60	*Pairs*	1	1	4	4	5	12	15	17	25
	Expected	1.637	2.105	3.274	4.443	8.652	15.668	19.643	24.788	29.698
	M P-value	0.868	0.915	0.416	0.668	0.970	0.917	0.956	0.996	0.938
≤80	*Pairs*	2	2	6	7	11	20	24	32	43
	Expected	2.520	3.240	5.040	6.840	13.320	24.120	30.240	38.160	45.720
	M P-value	0.789	0.892	0.363	0.563	0.843	0.922	0.972	0.965	0.751
≤100	*Pairs*	3	3	7	9	15	33	39	50	61
	Expected	3.554	4.569	7.108	9.646	18.785	34.015	42.646	53.815	64.477
	M P-value	0.775	0.908	0.637	0.688	0.931	0.648	0.856	0.857	0.827

MR, macroregions.

Table A33

Jacquez test: MR8, $M_w \geq 5.3$

k	1	2	3	4	5	6	7	8	9	10
T	0.5	2.5	5.5	7.5	8.5	14.	20.5	28.	39.5	52.5
Expected	0.52	2.08	4.68	8.32	13.00	18.72	25.48	33.28	42.12	52.00
M P-value	0.596	0.405	0.337	0.681	0.986	0.974	0.974	0.972	0.769	0.458
$\hat{d}_k^S$	17.239	29.852	40.531	47.320	55.091	66.505	77.952	81.832	86.016	90.549
$\hat{d}_k^T$	7.697	17.421	23.606	30.222	34.864	49.633	57.297	71.660	81.548	98.001
k	11	12	13	14	15	16	17	18	19	20
T	62.	78.5	91.	110.	122.5	137.5	150.5	173.	191.5	211.
Expected	62.92	74.88	87.88	101.92	117.00	133.12	150.28	168.48	187.72	208.00
M P-value	0.588	0.204	0.250	0.063	0.149	0.207	0.503	0.221	0.246	0.261
$\hat{d}_k^S$	94.764	101.971	107.123	113.248	115.600	120.580	132.931	137.819	144.157	150.685
$\hat{d}_k^T$	114.135	129.750	135.021	144.565	159.893	188.027	212.324	224.398	225.904	234.389

MR, macroregions.