# **Appendix I**

# Summary of localities and genera employed here in Raup and Crick (1979) similarity index

# **Tested Localities:**

- [A] Tinduf Basin (Western Sahara)
- [B] Anti-Atlas (Morocco)
- [C] Ougarta Chains (Aulacogen) South Algeria [M] Bistra Mts. West Macedonia
- [D] Western Pyrenees
- [E] Spain Catalunya
- [F] Eastern Pyrenees Aquitaine
- [G] Armorican Massif
- [H] Montagne Noire
- [I] Southwestern Sardinia
- [J] Prague Basin (Czech republic)

[K] Carnic Alps

[L] Suva Planina Mts. - Eastern Serbia

- [N] Uppony(i) Mts. (Northeast Hungary)
- [O] Ukraine (former Podolia) continental platform

# **Tested Genera**

1	Orthoceras	14	Orthocycloceras
2	Michelinoceras (M.) + (Sph.)	15	Protobactrites
3	Kopaninoceras	16	Metaspyroceras
4	Plagiostomoceras	17	Spyroceras
5	Mimogeisonoceras	18	Columenoceras
6	Akrosphaerorthoceras	19	Arionoceras
7	Kionoceras + Protokionoceras	20	Geisonoceras
8	Calorthoceras	21	Murchisoniceras
9	Parakionoceras	22	Sphooceras
10	Vericeras	23	Phragmoceras + Protophragmoceras
11	Dawsonoceras + Dawsonocerina	24	Jovellania
12	Temperoceras	25	Oonoceras+ Oncoceras
13	Cycloceras + Pseudocycloceras	26	Harrisoceras

Tested Localities (see above)													Tested Genera list per each locality		
А	В	С	D	Е	F	G	Н	I	J	K	L	М	Ν	0	Matrix Presence, 1/Lack, 0 of genera per each locality
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1) Orthoceras
1	1	0	0	0	0	0	1	1	1	1	0	0	1	1	2) Michelinoceras (M) + (Sph.)
0	1	0	0	0	0	1	1	1	1	1	0	0	1	0	3) Kopaninoceras
0	0	0	1	0	0	0	0	1	1	1	0	1	0	0	4) Plagiostomoceras
0	0	0	0	0	1	1	1	1	1	1	0	0	1	1	5) Mimogeisonoceras
0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	6) Akrosphaerorthoceras
0	0	0	0	0	0	0	0	1	1	1	0	0	1	1	7) Kionoceras + Protokionoceras
0	0	1	0	0	0	1	0	1	1	1	0	0	0	0	8) Calorthoceras
0	0	0	1	0	1	1	1	1	1	1	1	0	0	1	9) Parakionoceras
0	0	0	0	1	0	0	1	1	1	1	0	0	0	0	10) Vericeras
1	1	1	0	0	0	0	1	1	1	1	0	1	1	1	11) Dawsonoceras + Dawsonocerina

0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	12) Temperoceras
0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	13) Cycloceras + Pseudocycloceras
0	0	0	1	1	1	0	1	1	1	1	1	0	0	0	14) Orthocycloceras
0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	15) Protobactrites
0	0	0	1	0	0	0	1	1	1	1	0	0	0	1	16) Metaspyroceras
0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	17) Spyroceras
0	0	0	1	1	0	0	0	1	1	1	0	0	1	0	18) Columenoceras
1	1	0	1	0	0	1	1	1	1	1	0	0	0	0	19) Arionoceras
0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	20) Geisonoceras
0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	21) Murchisoniceras
0	0	0	0	0	0	0	1	1	1	1	0	0	0	1	22) Sphooceras
0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	23) Phragmoceras + Protophragmoceras
0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	24) Jovellania
0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	25) Oonoceras + Oncoceras
0	1	0	0	0	0	1	0	1	1	0	0	0	0	1	26) Harrisoceras

# PROBABLISTIC FAUNAL SIMILARITY ANALYSIS

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Number of Taxa = 26 Number of Localities = 15 Number of Sampling Iterations = 1000

Seed for Random Number Generator = 12345

Results of Comparisons Between Empirical

Observations and Monte Carlo Simulations

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% Occur. of		% Occur. In
Total Localities Locality		Total
Species Taxon		
1 [A] Tinduf Basin	11.54	1 Orthoceras 6.67
2 [B] Anti-Atlas	19.23	2 Michelinoceras 53.33
3 [C] Ougarta Aulacogen	7.69	3 Kopaninoceras 46.67
4 [D] W Pyrenees	26.92	4 Plagiostomoceras 33.33
5 [E] Catalunya	15.38	5 Mimogeisonoceras 53.33
6 [F] E Pyrenees	15.38	6 Akrosphaerthoceras 20.00
7 [G] Armorican Massif	46.15	7 <b>Kionoceras</b> 33.33
8 [H] Montagne Noire	46.15	8 Calorthoceras 33.33
9 [I] SW Sardinia	84.62	9 Parakionoceras 60.00
10 [J] Prague Basin	96.15	10 <b>Vericeras</b> 33.33
11 [K] Carnic Alps	69.23	11 Dawsonoceras 66.67
12 [L] Suva Planina Mts.	7.69	12 <b>Temperoceras</b> 20.00
13 [ <b>M</b> ] Bistra Mts.	11.54	13 <b>Cycloceras</b> 13.33

14 [N] Uppony Mts.	23.08	14 Orthocycloceras	53.33
15 [O] Ukraine	42.31	15 Protobactrites	26.67
		16 Metaspyroceras	40.00
		17 Spyroceras	20.00
		18 Columenoceras	40.00
		19 Arionoceras	53.33
		20 Geisonoceras	40.00
		21 Murchisoniceras	20.00
		22 Sphooceras	33.33
		23 Phragmoceras	20.00
		24 Jovellania	26.67
		25 <b>Oonoceras</b>	26.67
		26 Harrisoceras	33.33

Simulated Comparison Between [A] Tinduf Basin and [B] Anti-Atlas

Observed no. of taxa in common = 3\* Raup and Crick (1979) Faunal Similarity Index: .999

	Simulation Probability Table						
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability			
0	457	45.70	45.70	.23			
1	444	44.40	90.10	.68			
2	96	9.60	99.70	.95			
3	3	.30	100.00	1.00			
4	0	.00	100.00	1.00			

Simulated Comparison Between [A] Tinduf Basin and [C] Ougarta

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .871

	Simu	lation Probabi	ility Table	
		 %	% %	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	750	75.00	75.00	.38
1	240	24.00	99.00	.87
2	10	1.00	100.00	1.00
3	0	.00	100.00	1.00

Simulated Comparison Between [A] Tinduf Basin and [D] W Pyrenees

Observed no. of taxa in common = 1

#### Raup and Crick (1979) Faunal Similarity Index: .553

	Simu	lation Probabl	liity ladie	
======	===========	===========	=======================================	=============
		00	\$	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	319	31.90	31.90	.16
1	467	46.70	78.60	.55
2	185	18.50	97.10	.88
3	29	2.90	100.00	.99
4	0	.00	100.00	1.00

# Simulation Probability Table

Simulated Comparison Between [A] Tinduf Basin and [E] Catalunya

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .261

		Simulation		
Кехр	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	520	52.00	52.00	.26
1	403	40.30	92.30	.72
2	74	7.40	99.70	.96
3	3	.30	100.00	1.00
4	0	.00	100.00	1.00

# Simulation Probability Table

Simulated Comparison Between [A] Tinduf Basin and [F] E Pyrenees

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .280

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0 1 2 3 4	560 375 60 5 0	56.00 37.50 6.00 .50 .00	56.00 93.50 99.50 100.00 100.00	.28 .75 .97 1.00 1.00

# Simulated Comparison Between [A] Tinduf Basin and [G] Armorican Massif

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .283

		Simulation I	Probability Table	
Kexp	Freq.	=============== % Freq.	======================================	Median Probability
0	107	10.70	10.70	.05

1	351	35.10	45.80	.28
2	417	41.70	87.50	.67
3	125	12.50	100.00	.94
4	0	.00	100.00	1.00

Simulated Comparison Between [A] Tinduf Basin and [H] Montagne Noire

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .942

Simulation Probability Table				
=========	==========	=========		
		00	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	109	10.90	10.90	.05
1	376	37.60	48.50	.30
2	399	39.90	88.40	.69
3	116	11.60	100.00	.94
4	0	.00	100.00	1.00

Simulated Comparison Between [A] Tinduf Basin and [I] SW Sardinia

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .641

#### Simulation Probability Table

========	=============	============		
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	20	2.00	2.00	.01
2	260	26.00	28.00	.15
3	720	72.00	100.00	.64
4	0	.00	100.00	1.00

Simulated Comparison Between [A] Tinduf Basin and [J] Prague Basin

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .531

#### Simulation Probability Table

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
2	61	6.10	6.10	.03
3 4	939 0	93.90 .00	100.00 100.00	.53 1.00

Simulated Comparison Between [A] Tinduf Basin and [K] Carnic Alps

Observed no. of taxa in common = 3

#### Raup and Crick (1979) Faunal Similarity Index: .781

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0 1 2 3 4	8 107 446 439 0	.80 10.70 44.60 43.90 .00	.80 11.50 56.10 100.00 100.00	0.00 .06 .34 .78 1.00

Simulation Probability Table

Simulated Comparison Between [A] Tinduf Basin and [L] Suva Planina Mts.

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .379

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Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	757	75.70	75.70	.38
1	230	23.00	98.70	.87
2	13	1.30	100.00	.99
3	0	.00	100.00	1.00

Simulated Comparison Between [A] Tinduf Basin and [M] Bistra Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .790

Simulation Probability Table				
Kexp	Freq.	====== ۶ Freq.	% Cum. Freq.	Median Probability
0 1 2 3 4	612 356 31 1 0	61.20 35.60 3.10 .10 .00	61.20 96.80 99.90 100.00 100.00	.31 .79 .98 1.00 1.00

Simulated Comparison Between [A] Tinduf Basin and [N] Uppony Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .902

Simulation Probability Table				
Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability
0 1 2 3	365 452 170 13	36.50 45.20 17.00 1.30	36.50 81.70 98.70 100.00	.18 .59 .90 .99

4	0	.00	100.00	1.00

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Simulated Comparison Between [A] Tinduf Basin and [O] Ukraine

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .692

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0 1 2 3 4	122 382 374 122 0	12.20 38.20 37.40 12.20 .00	12.20 50.40 87.80 100.00 100.00	.06 .31 .69 .94 1.00

Simulated Comparison Between [B] Anti-Atlas and [C] Ougarta

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .776

Simulation Probability Table				
Kexp	Freq.	============ % Freq.	& Cum. Freq.	Median Probability
0 1 2 3	589 373 38 0	58.90 37.30 3.80 .00	58.90 96.20 100.00 100.00	.29 .78 .98 1.00

Simulated Comparison Between [B] Anti-Atlas and [D] W Pyrenees

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .319

Simulation Probability Table				
Kexp	Freq.	================== % Freq.	* Cum. Freq.	Median Probability
0 1 2 3 4 5	131 376 357 117 19 0	13.10 37.60 35.70 11.70 1.90 .00	13.10 50.70 86.40 98.10 100.00 100.00	.07 .32 .69 .92 .99 1.00

Simulated Comparison Between [B] Anti-Atlas and [E] Catalunya

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .171

#### Simulation Probability Table

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		olo	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	342	34.20	34.20	.17
1	481	48.10	82.30	.58
2	154	15.40	97.70	.90
3	23	2.30	100.00	.99
4	0	.00	100.00	1.00

Simulated Comparison Between [B] Anti-Atlas and [F] E Pyrenees

#### Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .171

Simulation Probability Table					
Kexp	Freq.	================== % Freq.	e======== % Cum. Freq.	Median Probability	
0 1 2 3 4 5	342 468 172 17 1 0	34.20 46.80 17.20 1.70 .10 .00	34.20 81.00 98.20 99.90 100.00 100.00	.17 .58 .90 .99 1.00 1.00	

Simulated Comparison Between [B] Anti-Atlas and [G] Armorican Massif

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .634

#### Simulation Probability Table \_\_\_\_\_ \* Median 00 Kexp Freq. Freq. Cum. Freq. Probability 0 .01 .07 1 2 .30 3 .63 4 .89 5 .99 6 1.00 \_\_\_\_\_

Simulated Comparison Between [B] Anti-Atlas and [H] Montagne Noire

# Observed no. of taxa in common = 4

Raup and Crick (1979) Faunal Similarity Index: .882

		 %	2000	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	12	1.20	1.20	.01
1	99	9.90	11.10	.06
2	314	31.40	42.50	.27
3	363	36.30	78.80	.61

4	188	18.80	97.60	.88
5	24	2.40	100.00	.99
б	0	.00	100.00	1.00

Simulated Comparison Between [B] Anti-Atlas and [I] SW Sardinia

Observed no. of taxa in common = 5 Raup and Crick (1979) Faunal Similarity Index: .727

Simulation Probability Table					
Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	0	.00	.00	.00	
2	2	.20	.20	0.00	
3	71	7.10	7.30	.04	
4	380	38.00	45.30	.26	
5	547	54.70	100.00	.73	
б	0	.00	100.00	1.00	

Simulated Comparison Between [B] Anti-Atlas and [J] Prague Basin

Observed no. of taxa in common = 5 Raup and Crick (1979) Faunal Similarity Index: .549

#### Simulation Probability Table

==========		============		
		00	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	97	9.70	9.70	.05
5	903	90.30	100.00	.55
б	0	.00	100.00	1.00

Simulated Comparison Between [B] Anti-Atlas and [K] Carnic Alps

Observed no. of taxa in common = 4 Raup and Crick (1979) Faunal Similarity Index: .586

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0 1 2 3 4 5	0 4 89 282 422 203	.00 .40 8.90 28.20 42.20 20.30	.00 .40 9.30 37.50 79.70 100.00	.00 0.00 .05 .23 .59 .90	
6	0	.00	100.00	1.00	

Simulated Comparison Between [B] Anti-Atlas and [L] Suva Planina Mts.

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .303

Simulation Probability Table					
Kexp	Freq.	 ۶ Freq.	% Cum. Freq.	Median Probability	
 0 1	 606 353	 60.60 35.30	60.60 95.90	.30 .78	
2 3	41 0	4.10 .00	100.00 100.00	.98 1.00	

Simulated Comparison Between [B] Anti-Atlas and [M] Bistra Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .665

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	442	44.20	44.20	.22	
1	446	44.60	88.80	.67	
2	106	10.60	99.40	.94	
3	б	.60	100.00	1.00	
4	0	.00	100.00	1.00	

Simulated Comparison Between [B] Anti-Atlas and [N] Uppony Mts.

#### Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .946

Simulation Probability Table						
%%MedianKexpFreq.Freq.Cum. Freq.						
0	 174	 17.40	17.40	.09		
1	420	42.00	59.40	. 38		
2	304	30.40	89.80	.75		
3	95	9.50	99.30	.95		
4	7	.70	100.00	1.00		
5	0	.00	100.00	1.00		

Simulated Comparison Between [B] Anti-Atlas and [O] Ukraine

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .712

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		00	90	Median	
Kexp	Freq.	Freq.	Cum. Freq.	Probability	

0	20	2.00	2.00	.01
1	185	18.50	20.50	.11
2	348	34.80	55.30	.38
3	317	31.70	87.00	.71
4	115	11.50	98.50	.93
5	15	1.50	100.00	.99
6	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [D] W Pyrenees

# Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .237

======	===========	===========		=======================================
		olo	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	474	47.40	47.40	.24
1	455	45.50	92.90	.70
2	71	7.10	100.00	.96
3	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [E] Catalunya

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .335

%         %         Median           Kexp         Freq.         Freq.         Cum. Freq.         Probabili           0         668         66.80         66.80         .33           1         304         30.40         97.20         .82	Simulation Probability Table					
	Kexp	Freq.	-	-	Median Probability	
2         28         2.80         100.00         .99           3         0         .00         100.00         1.00	1 2	304 28	30.40	97.20 100.00	.82	

Simulated Comparison Between [C] Ougarta and [F] E Pyrenees

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .342

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0 1 2 3	683 291 26 0	68.30 29.10 2.60 .00	68.30 97.40 100.00 100.00	.34 .83 .99 1.00	

Simulated Comparison Between [C] Ougarta and [G] Armorican Massif

Observed no. of taxa in common = 1

	Simulator robability rable				
Kexp	Freq.	* Freq.	* Cum. Freq.	Median Probability	
0	226	22.60	22.60	.11	
1	521	52.10	74.70	.49	
2	253	25.30	100.00	.87	
3	0	.00	100.00	1.00	

Simulation Probability Table

Simulated Comparison Between [C] Ougarta and [H] Montagne Noire

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .460

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0 1 2 3	208 503 289 0	20.80 50.30 28.90 .00	20.80 71.10 100.00 100.00	.10 .46 .86 1.00	

Simulated Comparison Between [C] Ougarta and [I] SW Sardinia

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .587

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0 1 2 2	0 173 827	.00 17.30 82.70	.00 17.30 100.00	.00 .09 .59	
3	0	.00	100.00	1.00	

Simulated Comparison Between [C] Ougarta and [J] Prague Basin

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .516

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	31	3.10	3.10	.02
2	969	96.90	100.00	.52
3	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [K] Carnic Alps

Observed no. of taxa in common = 2				
Raup and Crick (1979) Faunal Similarity Index: .715				

Simulation	Probability	Table
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EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Freq.	======================================	* Cum. Freq.	Median Probability
0	48	4.80	4.80	.02
1	382	38.20	43.00	.24
2	570	57.00	100.00	.72
3	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [L] Suva Planina Mts.

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .421

Simulation Probability Table				
 Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	842	84.20	84.20	.42
1	154	15.40	99.60	.92
2	4	.40	100.00	1.00
3	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [M] Bistra Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .876

#### Simulation Probability Table

EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	======================================	======================================	« « Cum. Freq.	Median Probability
0	760	76.00	76.00	.38
1	231	23.10	99.10	.88
2	9	.90	100.00	1.00
3	0	.00	100.00	1.00

Simulated Comparison Between [C] Ougarta and [N] Uppony Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .719

Simulation Probability Table						
Kexp Freq. Freq. Cum. Freq. Probability						
0	490	49.00	49.00	.25		
1	457	45.70	94.70	.72		
2	53	5.30	100.00	.97		

# Simulated Comparison Between [C] Ougarta and [O] Ukraine

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .530

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	279	27.90	27.90	.14	
1	501	50.10	78.00	.53	
2	220	22.00	100.00	.89	
3	0	.00	100.00	1.00	

Simulated Comparison Between [D] W Pyrenees and [E] Catalunya

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .789

#### Simulation Probability Table

		o\o	 %	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	181	18.10	18.10	.09
1	465	46.50	64.60	.41
2	285	28.50	93.10	.79
3	67	6.70	99.80	.96
4	2	.20	100.00	1.00
5	0	.00	100.00	1.00

Simulated Comparison Between [D] W Pyrenees and [F] E Pyrenees

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .777

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	199	19.90	19.90	.10
1	440	44.00	63.90	.42
2	276	27.60	91.50	.78
3	77	7.70	99.20	.95
4	8	.80	100.00	1.00
5	0	.00	100.00	1.00

#### Simulation Probability Table

Simulated Comparison Between [D] W Pyrenees and [G] Armorican Massif

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .101

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	1	.10	.10	0.00
1	31	3.10	3.20	.02
2	138	13.80	17.00	.10
3	272	27.20	44.20	.31
4	344	34.40	78.60	.61
5	172	17.20	95.80	.87
б	40	4.00	99.80	.98
7	2	.20	100.00	1.00
8	0	.00	100.00	1.00

Simulated Comparison Between [D] W Pyrenees and [H] Montagne Noire

Observed no. of taxa in common = 5 Raup and Crick (1979) Faunal Similarity Index: .859

Simulation Probability Table				
Kexp	Freq.	========= % Freq.	* Cum. Freq.	Median Probability
0	1	.10	.10	0.00
1	29	2.90	3.00	.02
2	134	13.40	16.40	.10
3	272	27.20	43.60	.30
4	328	32.80	76.40	.60
5	190	19.00	95.40	.86
6	44	4.40	99.80	.98
7	2	.20	100.00	1.00
8	0	.00	100.00	1.00

Simulated Comparison Between [D] W Pyrenees and [I] SW Sardinia

Observed no. of taxa in common = 6 Raup and Crick (1979) Faunal Similarity Index: .363

Simulation Probability Table				
EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Freq.	=================== % Freq.	& Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	1	.10	.10	0.00
4	14	1.40	1.50	.01
5	129	12.90	14.40	.08
б	437	43.70	58.10	.36
7	419	41.90	100.00	.79
8	0	.00	100.00	1.00

Simulated Comparison Between [D] W Pyrenees and [J] Prague Basin

Observed no. of taxa in common = 7 Raup and Crick (1979) Faunal Similarity Index: .570

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	0	.00	.00	.00	
2	0	.00	.00	.00	
3	0	.00	.00	.00	
4	0	.00	.00	.00	
5	0	.00	.00	.00	
6	138	13.80	13.80	.07	
7	862	86.20	100.00	.57	
8	0	.00	100.00	1.00	

#### Simulation Probability Table

Simulated Comparison Between [D] W Pyrenees and [K] Carnic Alps

Observed no. of taxa in common = 7 Raup and Crick (1979) Faunal Similarity Index: .956

Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability
0 1	0	.00	.00	.00
2	2	.20	.20	0.00
3 4	42 166	4.20 16.60	4.40 21.00	.02 .13
5 6	366 334	36.60 33.40	57.60 91.00	.39 .74
7	90	9.00	100.00	.96
8	0	.00	100.00	1.00

#### Simulation Probability Table

Simulated Comparison Between [D] W Pyrenees and [L] Suva Planina Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .957

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	454	45.40	45.40	.23
1	460	46.00	91.40	.68
2	86	8.60	100.00	.96
3	0	.00	100.00	1.00

# Simulated Comparison Between [D] W Pyrenees and [M] Bistra Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .539

#### Simulation Probability Table

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		00	010	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	300	30.00	30.00	.15
1	476	47.60	77.60	.54
2	203	20.30	97.90	.88
3	21	2.10	100.00	.99
4	0	.00	100.00	1.00

Simulated Comparison Between [D] W Pyrenees and [N] Uppony Mts.

### Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .228

Simulation Probability Table					
Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability	
0 1 2	79 296 392	7.90 29.60 39.20	7.90 37.50 76.70	.04 .23 .57	
3 4 5 6	188 41 4 0	18.80 4.10 .40 .00	95.50 99.60 100.00 100.00	.86 .98 1.00 1.00	

Simulated Comparison Between [D] W Pyrenees and [O] Ukraine

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .131

#### Simulation Probability Table -----8 Median Kexp Freq. Freq. Cum. Freq. Probability 5.50.50343.403.9018318.3022.2032832.8055.0029229.2084.2014014.00 .50 2 90 0.00 0 1 .02 2 .13 3 .39 4 .70 14.00 5 140 98.20 .91 1.80 100.00 6 18 .99 0 .00 100.00 7 1.00

# Simulated Comparison Between [E] Catalunya and [F] E Pyrenees

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .638

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0 1	421 434	42.10 43.40	42.10 85.50	.21	

2	134	13.40	98.90	.92
3	11	1.10	100.00	1.00
4	0	.00	100.00	1.00

Simulated Comparison Between [E] Catalunya and [G] Armorican Massif

Observed no. of taxa in common = 0\*\* Raup and Crick (1979) Faunal Similarity Index: .020

% % Med	lian bility
Kexp Freq. Freq. Cum. Freq. Proba	LOIIICY
0 38 3.80 3.80 .	.02
1 228 22.80 26.60 .	.15
2 413 41.30 67.90 .	. 47
3 272 27.20 95.10 .	.82
4 49 4.90 100.00 .	.98
5 0 .00 100.00 1.	.00

Simulated Comparison Between [E] Catalunya and [H] Montagne Noire

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .472

#### Simulation Probability Table

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	39	3.90	3.90	.02
1	226	22.60	26.50	.15
2	412	41.20	67.70	.47
3	272	27.20	94.90	.81
4	51	5.10	100.00	.98
5	0	.00	100.00	1.00

Simulated Comparison Between [E] Catalunya and [I] SW Sardinia

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .212

Simulation Probability Table				
Kexp	Freq.	% Freq.		Median Probability
0	0	.00	.00	.00
1	4	.40	.40	0.00
2	35	3.50	3.90	.02
3	345	34.50	38.40	.21
4	616	61.60	100.00	.69
5	0	.00	100.00	1.00

Simulated Comparison Between [E] Catalunya and [J] Prague Basin

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .028

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	55	5.50	5.50	.03
4	945	94.50	100.00	.53
5	0	.00	100.00	1.00
4	945	94.50	100.00	.53
5	0	.00	100.00	1.00

Simulation Probability Table

Simulated Comparison Between [E] Catalunya and [K] Carnic Alps

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .480

Simulation Probability Table					
Kexp	Freq.	۶ Freq.	% Cum. Freq.	Median Probability	
0	2	.20	.20	0.00	
1	34	3.40	3.60	.02	
2	207	20.70	24.30	.14	
3	473	47.30	71.60	.48	
4	284	28.40	100.00	.86	
5	0	.00	100.00	1.00	

Simulated Comparison Between [E] Catalunya and [L] Suva Planina Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .823

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	675	67.50	67.50	.34	
1	296	29.60	97.10	.82	
2	29	2.90	100.00	.99	
3	0	.00	100.00	1.00	

Simulated Comparison Between [E] Catalunya and [M] Bistra Mts.

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .261

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		00	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability

0	521	52.10	52.10	.26
1	404	40.40	92.50	.72
2	74	7.40	99.90	.96
3	1	.10	100.00	1.00
4	0	.00	100.00	1.00

Simulated Comparison Between [E] Catalunya and [N] Uppony Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .497

Simulation Probability Table				
Kexp	Freq.	* Freq.	& Cum. Freq.	Median Probability
0	263	26.30	26.30	.13
1	467	46.70	73.00	.50
2	225	22.50	95.50	.84
3	43	4.30	99.80	.98
4	2	.20	100.00	1.00
5	0	.00	100.00	1.00

Simulated Comparison Between [E] Catalunya and [O] Ukraine

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .043

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	85	8.50	8.50	.04
1	255	25.50	34.00	.21
2	403	40.30	74.30	.54
3	231	23.10	97.40	.86
4	26	2.60	100.00	.99
5	0	.00	100.00	1.00

Simulated Comparison Between [F] E Pyrenees and [G] Armorican Massif

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .472

Simulation Probability Table					
Kexp	Freq.	======== % Freq.	* ۶ Cum. Freq.	Median Probability	
0	41	4.10	4.10	.02	
1	218	21.80	25.90	.15	
2	424	42.40	68.30	.47	
3	257	25.70	94.00	.81	
4	60	6.00	100.00	.97	
5	0	.00	100.00	1.00	

Simulated Comparison Between [F] E Pyrenees and [H] Montagne Noire

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Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .803

Kexp Freq. 0 40	Simulation Probability Table					
0 40	%	%	Median			
	Freq.	Cum. Freq.	Probability			
1       220         2       407         3       272         4       61         5       0	4.00	4.00	.02			
	22.00	26.00	.15			
	40.70	66.70	.46			
	27.20	93.90	.80			
	6.10	100.00	.97			
	.00	100.00	1.00			

Simulated Comparison Between [F] E Pyrenees and [I] SW Sardinia

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .219

Simulation Probability Table					
Кехр	Freq.	* Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	1	.10	.10	0.00	
2	42	4.20	4.30	.02	
3	351	35.10	39.40	.22	
4	606	60.60	100.00	.70	
5	0	.00	100.00	1.00	

### Simulated Comparison Between [F] E Pyrenees and [J] Prague Basin

Observed no. of taxa in common = 4 Raup and Crick (1979) Faunal Similarity Index: .538

Simulation Probability Table					
Kexp	Freq.	* Freq.	«Cum. Freq	Median Probability	
0 1 2 3 4 5	0 0 74 926 0	.00 .00 .00 7.40 92.60 .00	.00 .00 .00 7.40 100.00 100.00	.00 .00 .00 .04 .54 1.00	

# Simulation Probability Table

Simulated Comparison Between [F] E Pyrenees and [K] Carnic Alps

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .475

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	36	3.60	3.60	.02	
2	216	21.60	25.20	.14	
3	445	44.50	69.70	.47	
4	303	30.30	100.00	.85	
5	0	.00	100.00	1.00	

Simulated Comparison Between [F] E Pyrenees and [L] Suva Planina Mts.

Observed no. of taxa in common = 2\* Raup and Crick (1979) Faunal Similarity Index: .989

	Simulation Probability Table					
Кехр	Freq.	% Freq.	% Cum. Freq.	Median Probability		
0	677	67.70	67.70	.34		
1	300	30.00	97.70	.83		
2	23	2.30	100.00	.99		
3	0	.00	100.00	1.00		

Simulated Comparison Between [F] E Pyrenees and [M] Bistra Mts.

Observed no. of taxa in common = 0 Raup and Crick (1979) Faunal Similarity Index: .269

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	537	53.70	53.70	.27	
1	387	38.70	92.40	.73	
2	76	7.60	100.00	.96	
3	0	.00	100.00	1.00	

# Simulation Probability Table

Simulated Comparison Between [F] E Pyrenees and [N] Uppony Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .485

==========	===========	===========		
		00	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	263	26.30	26.30	.13
1	443	44.30	70.60	.49
2	242	24.20	94.80	.83
3	50	5.00	99.80	.97
4	2	.20	100.00	1.00
5	0	.00	100.00	1.00

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Simulated Comparison Between [F] E Pyrenees and [O] Ukraine

Observed no. of taxa in common = 2
Raup and Crick (1979) Faunal Similarity Index: .529

	Simulation Probability Table				
Kexp	Freq.	 ۶ Freq.	% Cum. Freq.	Median Probability	
0	57	5.70	5.70	.03	
1	265	26.50	32.20	.19	
2	412	41.20	73.40	.53	
3	226	22.60	96.00	.85	
4	40	4.00	100.00	.98	
5	0	.00	100.00	1.00	

Simulated Comparison Between [G] Armorican Massif and [H] Montagne Noire

Observed no. of taxa in common = 5 Raup and Crick (1979) Faunal Similarity Index: .209

=======						
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability		
0	0	.00	.00	.00		
1	1	.10	.10	0.00		
2	1	.10	.20	0.00		
3	13	1.30	1.50	.01		
4	78	7.80	9.30	.05		
5	231	23.10	32.40	.21		
б	314	31.40	63.80	.48		
7	224	22.40	86.20	.75		
8	107	10.70	96.90	.92		
9	27	2.70	99.60	.98		
10	4	.40	100.00	1.00		
11	0	.00	100.00	1.00		

Simulation Probability Table

Simulated Comparison Between [G] Armorican Massif and [I] Sardinia

Observed no. of taxa in common = 11 Raup and Crick (1979) Faunal Similarity Index: .603

Simulation	Probability	Table
Omnulation	Trobubility	Tuble

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	0	.00	.00	.00
6	0	.00	.00	.00

7	0	.00	.00	.00
8	8	.80	.80	0.00
9	95	9.50	10.30	.06
10	285	28.50	38.80	.25
11	429	42.90	81.70	.60
12	183	18.30	100.00	.91
13	0	.00	100.00	1.00

# Simulated Comparison Between [G] Armorican Massif and [J] Prague Basin

# Observed no. of taxa in common = 12 Raup and Crick (1979) Faunal Similarity Index: .635

Kexp	Freq.	۶ Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	0	.00	.00	.00
6	0	.00	.00	.00
7	0	.00	.00	.00
8	0	.00	.00	.00
9	0	.00	.00	.00
10	0	.00	.00	.00
11	269	26.90	26.90	.14
12	731	73.10	100.00	.63
13	0	.00	100.00	1.00

#### Simulation Probability Table

Simulated Comparison Between [G] Armorican Massif and [K] Carnic Alps

Observed no. of taxa in common = 7 Raup and Crick (1979) Faunal Similarity Index: .053

Kexp	Freq.	* Freq.	* Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	1	.10	.10	0.00
6	13	1.30	1.40	.01
7	77	7.70	9.10	.05
8	234	23.40	32.50	.21
9	321	32.10	64.60	.49
10	272	27.20	91.80	.78
11	73	7.30	99.10	.95
12	9	.90	100.00	1.00
13	0	.00	100.00	1.00

Simulated Comparison Between [G] Armorican Massif and [L] Suva Planina Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .470

Simulation Probability Table						
Kexp Freq. Freq. Cum. Freq. Probability						
0	191	19.10	19.10	.10		
1	556	55.60	74.70	.47		
2	253	25.30	100.00	.87		
3	0	.00	100.00	1.00		

Simulated Comparison Between [G] Armorican Massif and [M] Bistra Mts.

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .283

Kexp	Freg.			Median Probability
0	108	10.80	10.80	.05
1	349	34.90	45.70	.28
2	405	40.50	86.20	.66
3	138	13.80	100.00	.93
4	0	.00	100.00	1.00

### Simulation Probability Table

Simulated Comparison Between [G] Armorican Massif and [N] Uppony Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .168

Simulation Probability Table							
* % Median Kexp Freq. Freq. Cum. Freq. Probabili							
0		.30	.30	0.00			
1	51	5.10	5.40	.03			
2	226	22.60	28.00	.17			
3	362	36.20	64.20	.46			
4	270	27.00	91.20	.78			
5	86	8.60	99.80	.96			
6	2	.20	100.00	1.00			
7	0	.00	100.00	1.00			

Simulated Comparison Between [G] Armorican Massif and [O] Ukraine

Observed no. of taxa in common = 5 Raup and Crick (1979) Faunal Similarity Index: .309

ଽ	00	Median	

Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	1	.10	.10	0.00
1	1	.10	.20	0.00
2	6	.60	.80	.01
3	32	3.20	4.00	.02
4	124	12.40	16.40	.10
5	289	28.90	45.30	.31
6	278	27.80	73.10	.59
7	206	20.60	93.70	.83
8	55	5.50	99.20	.96
9	7	.70	99.90	1.00
10	1	.10	100.00	1.00
11	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [I] SW Sardinia

Observed no. of taxa in common = 11 Raup and Crick (1979) Faunal Similarity Index: .625

Simulation Probability Table					
Kexp	Freq.	* Freq.	۶ ۲ Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	0	.00	.00	.00	
2	0	.00	.00	.00	
3	0	.00	.00	.00	
4	0	.00	.00	.00	
5	0	.00	.00	.00	
б	0	.00	.00	.00	
7	0	.00	.00	.00	
8	10	1.00	1.00	.01	
9	87	8.70	9.70	.05	
10	321	32.10	41.80	.26	
11	413	41.30	83.10	.63	
12	169	16.90	100.00	.92	
13	0	.00	100.00	1.00	

Simulation Probability Table

Simulated Comparison Between [H] Montagne Noire and [J] Prague Basin

Observed no. of taxa in common = 12 Raup and Crick (1979) Faunal Similarity Index: .629

Simulation Probability Table					
Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	0	.00	.00	.00	
2	0	.00	.00	.00	
3	0	.00	.00	.00	
4	0	.00	.00	.00	
5	0	.00	.00	.00	
б	0	.00	.00	.00	
7	0	.00	.00	.00	
8	0	.00	.00	.00	

9	0	.00	.00	.00
10	0	.00	.00	.00
11	258	25.80	25.80	.13
12	742	74.20	100.00	.63
13	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [K] Carnic Alps

Observed no. of taxa in common = 12\* Raup and Crick (1979) Faunal Similarity Index: .997

Simulation Probability Table				
Kexp	Freq.	========= % Freq.	========== ۶ Cum. Freq.	Median Probability
0	0	.00	.00.00	.00
1	0	.00		.00
2	0	.00		.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	3	.30	.30	0.00
6	12	1.20	1.50	.01
7	86	8.60	10.10	.06
8	231	23.10	33.20	.22
9	322	32.20	65.40	.49
10	237	23.70	89.10	.77
11	101	10.10	99.20	.94
12	8	.80	100.00	1.00
13	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [L] Suva Planina Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .859

Simulation Probability Table				
Kexp	Freq.	% % Freq.	Cum. Freq.	Median Probability
0	209	20.90	20.90	.10
1	509	50.90	71.80	.46
2	282	28.20	100.00	.86
3	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [M] Bistra Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .688

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0 1	100 387	10.00 38.70	10.00 48.70	.05

2	402	40.20	88.90	.69
3	111	11.10	100.00	.94
4	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [N] Uppony Mts.

Observed no. of taxa in common = 4 Raup and Crick (1979) Faunal Similarity Index: .776

Simulation Probability Table				
		≈=========== %	8 Gum Euror	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	4	.40	.40	0.00
1	52	5.20	5.60	.03
2	204	20.40	26.00	.16
3	386	38.60	64.60	.45
4	260	26.00	90.60	.78
5	83	8.30	98.90	.95
б	11	1.10	100.00	1.00
7	0	.00	100.00	1.00

Simulated Comparison Between [H] Montagne Noire and [O] Ukraine

Observed no. of taxa in common = 6 Raup and Crick (1979) Faunal Similarity Index: .619

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	11	1.10	1.10	.01
3	48	4.80	5.90	.04
4	118	11.80	17.70	.12
5	290	29.00	46.70	.32
6	304	30.40	77.10	.62
7	156	15.60	92.70	.85
8	62	6.20	98.90	.96
9	10	1.00	99.90	.99
10	1	.10	100.00	1.00
11	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [J] Prague Basin

Observed no. of taxa in common = 22 Raup and Crick (1979) Faunal Similarity Index: .803

Simulation Probability Table				
Kexp	Freq.	* Freq.		Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00

#### ∠0

2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	0	.00	.00	.00
б	0	.00	.00	.00
7	0	.00	.00	.00
8	0	.00	.00	.00
9	0	.00	.00	.00
10	0	.00	.00	.00
11	0	.00	.00	.00
12	0	.00	.00	.00
13	0	.00	.00	.00
14	0	.00	.00	.00
15	0	.00	.00	.00
16	0	.00	.00	.00
17	0	.00	.00	.00
18	0	.00	.00	.00
19	0	.00	.00	.00
20	0	.00	.00	.00
21	604	60.40	60.40	.30
22	396	39.60	100.00	.80
23	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [K] Carnic Alps

Observed no. of taxa in common = 16 Raup and Crick (1979) Faunal Similarity Index: .576

Simulation Probability Table

%%MedianKexpFreq.Freq.Cum. Freq.Probability00.00.00.0010.00.00.0020.00.00.0030.00.00.0040.00.00.0050.00.00.0060.00.00.0070.00.00.0080.00.00.0090.00.00.00100.00.00.00110.00.00.00120.00.00.00130.00.00.0014666.606.60.031529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99190.001.001.00	========		===========		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			00	00	Median
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Kexp	Freq.	Freq.	Cum. Freq.	Probability
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0	.00	.00	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	0	.00	.00	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2	0	.00	.00	.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3	0	.00	.00	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4	0	.00	.00	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5	0	.00	.00	.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	б	0	.00	.00	.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7	0	.00	.00	.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	8	0	.00	.00	.00
110.00.00.00120.00.00.00130.00.00.0014666.606.60.031529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99	9	0	.00	.00	.00
120.00.00.00130.00.00.0014666.606.60.031529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99	10	0	.00	.00	.00
130.00.00.0014666.606.60.031529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99	11	0	.00	.00	.00
14666.60.031529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99	12	0	.00	.00	.00
1529629.6036.20.211642642.6078.80.581718718.7097.50.8818252.50100.00.99	13	0	.00	.00	.00
1642642.6078.80.581718718.7097.50.8818252.50100.00.99	14	66	6.60	6.60	.03
1718718.7097.50.8818252.50100.00.99	15	296	29.60	36.20	.21
18     25     2.50     100.00     .99	16	426	42.60	78.80	.58
	17	187	18.70	97.50	.88
19 0 .00 100.00 1.00	18	25	2.50	100.00	.99
	19	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [L] Suva Planina Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .604

Simulation Probability Table				
Kexp	Freq.	* Freq.	& Cum. Freq.	Median Probability
0	11	1.10	1.10	.01
1	197	19.70	20.80	.11
2	792	79.20	100.00	.60
3	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [M] Bistra Mts.

#### Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .651

Simulation Probability Table				
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	1	.10	.10	0.00
1	25	2.50	2.60	.01
2	275	27.50	30.10	.16
3	699	69.90	100.00	.65
4	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [N] Uppony Mts.

Observed no. of taxa in common = 6

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Raup and Crick (1979) Faunal Similarity Index: .766

#### Simulation Probability Table

=====		============== %	================= १	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	8	.80	.80	0.00
4	101	10.10	10.90	.06
5	422	42.20	53.10	.32
б	469	46.90	100.00	.77
7	0	.00	100.00	1.00

Simulated Comparison Between [I] SW Sardinia and [O] Ukraine

#### Observed no. of taxa in common = 11 Raup and Crick (1979) Faunal Similarity Index: .892

0

#### Simulation Probability Table \_\_\_\_\_ 00 Median 00 Freq. Cum. Freq. Probability Kexp Freq. \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ .00 .00 0 0 .00 1 0 .00 .00 .00 2 0 .00 .00 .00

.00

.00

.00

4	0	.00	.00	.00
5	0	.00	.00	.00
6	0	.00	.00	.00
7	5	.50	.50	0.00
8	72	7.20	7.70	.04
9	308	30.80	38.50	.23
10	398	39.80	78.30	.58
11	217	21.70	100.00	.89
12	0	.00	100.00	1.00

Simulated Comparison Between [J] Prague Basin and [K] Carnic Alps

Observed no. of taxa in common = 18 Raup and Crick (1979) Faunal Similarity Index: .712

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	0	.00	.00	.00
б	0	.00	.00	.00
7	0	.00	.00	.00
8	0	.00	.00	.00
9	0	.00	.00	.00
10	0	.00	.00	.00
11	0	.00	.00	.00
12	0	.00	.00	.00
13	0	.00	.00	.00
14	0	.00	.00	.00
15	0	.00	.00	.00
16	0	.00	.00	.00
17	424	42.40	42.40	.21
18	576	57.60	100.00	.71
19	0	.00	100.00	1.00

Simulation Probability Table

Simulated Comparison Between [J] Prague Basin and [L] Suva Planina Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .521

Simulation Probability Table				
		%	%	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	0	.00	.00	.00
1	41	4.10	4.10	.02
2	959	95.90	100.00	.52
3	0	.00	100.00	1.00

Simulated Comparison Between [J] Prague Basin and [M] Bistra Mts.

Observed no. of taxa in common = 3Raup and Crick (1979) Faunal Similarity Index: .530

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	58	5.80	5.80	.03
3	942	94.20	100.00	.53
4	0	.00	100.00	1.00

Simulation Probability Table

Simulated Comparison Between [J] Prague Basin and [N] Uppony Mts.

Observed no. of taxa in common = 6Raup and Crick (1979) Faunal Similarity Index: .565

Simulation Probability Table					
Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability	
0	0	.00	.00	.00	
1	0	.00	.00	.00	
2	0	.00	.00	.00	
3	0	.00	.00	.00	
4	0	.00	.00	.00	
5	129	12.90	12.90	.06	
б	871	87.10	100.00	.56	
7	0	.00	100.00	1.00	

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Simulated Comparison Between [J] Prague Basin and [O] Ukraine

Observed no. of taxa in common = 11 Raup and Crick (1979) Faunal Similarity Index: .609

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	0	.00	.00	.00
б	0	.00	.00	.00
7	0	.00	.00	.00
8	0	.00	.00	.00
9	0	.00	.00	.00
10	216	21.60	21.60	.11
11	784	78.40	100.00	.61
12	0	.00	100.00	1.00

Simulated Comparison Between [K] Carnic Alps and [L] Suva Planina Mts.

Observed no. of taxa in common = 2 Raup and Crick (1979) Faunal Similarity Index: .711

Simulation Probability Table				
Kexp	Freq.	۶ Freq.	% Cum. Freq.	Median Probability
0	50	5.00	5.00	.03
1	371	37.10	42.10	.24
2	579	57.90	100.00	.71
3	0	.00	100.00	1.00

Simulation Probability Table

Simulated Comparison Between [K] Carnic Alps and [M] Bistra Mts.

Observed no. of taxa in common = 3 Raup and Crick (1979) Faunal Similarity Index: .789

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	11	1.10	1.10	.01
1	128	12.80	13.90	.08
2	439	43.90	57.80	.36
3	422	42.20	100.00	.79
4	0	.00	100.00	1.00

Simulation Probability Table

Simulated Comparison Between [K] Carnic Alps and [N] Uppony Mts.

Observed no. of taxa in common = 6 Raup and Crick (1979) Faunal Similarity Index: .921

Kexp	Freq.	 % Freq.	% Cum. Freq.	Median Probability
0	0	.00	.00	.00
1	1	.10	.10	0.00
2	20	2.00	2.10	.01
3	108	10.80	12.90	.08
4	333	33.30	46.20	.30
5	379	37.90	84.10	.65
6	159	15.90	100.00	.92
7	0	.00	100.00	1.00

# Simulation Probability Table

Simulated Comparison Between [K] Carnic Alps and [O] Ukraine Observed no. of taxa in common = 7

Raup and Crick (1979) Faunal Similarity Index: .149

=======	=======================================	===========		
		00	00	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability

0	0	.00	.00	.00
1	0	.00	.00	.00
2	0	.00	.00	.00
3	0	.00	.00	.00
4	0	.00	.00	.00
5	4	.40	.40	0.00
6	46	4.60	5.00	.03
7	197	19.70	24.70	.15
8	341	34.10	58.80	.42
9	295	29.50	88.30	.74
10	108	10.80	99.10	.94
11	9	.90	100.00	1.00
12	0	.00	100.00	1.00

Simulated Comparison Between [L] Suva Planina MTS. and [M] Bistra Mts.

Observed no. of taxa in common = 0Raup and Crick (1979) Faunal Similarity Index: .370

Simu	lation Probab	ility Table	
Freq.	* Freq.	======================================	Median Probability
740	74.00	74.00	.37
244	24.40	98.40	.86
16	1.60	100.00	.99
0	.00	100.00	1.00
	Freq.  740 244	%           Freq.         Freq.               740         74.00           244         24.40           16         1.60	Freq.Freq.Cum. Freq.74074.0074.0024424.4098.40161.60100.00

Simulated Comparison Between [L] Suva Planina Mts. and [N] Uppony Mts.

Observed no. of taxa in common = 0Raup and Crick (1979) Faunal Similarity Index: .261

		Simulation	FIODADIIILY TADIE	
EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Freq.	======================================	2007	Median Probability
0	521	52.10	52.10	.26
1	413	41.30	93.40	.73
2	66	6.60	100.00	.97
3	0	.00	100.00	1.00

# Simulation Probability Table

Simulated Comparison Between [L] Suva Planina Mts. and [O] Ukraine

### Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .520

======	===========	===========		==================
		00	90	Median
Kexp	Freq.	Freq.	Cum. Freq.	Probability
0	256	25.60	25.60	.13
1	527	52.70	78.30	.52
2	217	21.70	100.00	.89
3	0	.00	100.00	1.00

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Simulated Comparison Between [M] Bistra Mts. and [N] Uppony Mts.

Observed no. of taxa in common = 1
Raup and Crick (1979) Faunal Similarity Index: .621

Simulation Probability Table						
Kexp	Freq.	* Freq.	% Cum. Freq.	Median Probability		
0	402	40.20	40.20	.20		
1	436	43.60	83.80	.62		
2	151	15.10	98.90	.91		
3	11	1.10	100.00	1.00		
4	0	.00	100.00	1.00		

Simulated Comparison Between [M] Bistra Mts. and [O] Ukraine

Observed no. of taxa in common = 1 Raup and Crick (1979) Faunal Similarity Index: .322

# Simulation Probability Table

Kexp	Freq.	۶ Freq.	% Cum. Freq.	Median Probability
0	117	11.70	11.70	.06
1	409	40.90	52.60	.32
2	367	36.70	89.30	.71
3	107	10.70	100.00	.95
4	0	.00	100.00	1.00

Simulated Comparison Between [N] Uppony Mts. and [O] Ukraine

Observed no. of taxa in common = 4 Raup and Crick (1979) Faunal Similarity Index: .823

Kexp	Freq.	% Freq.	% Cum. Freq.	Median Probability
0	9	.90	.90	0.00
1	87	8.70	9.60	.05
2	267	26.70	36.30	.23
3	351	35.10	71.40	.54
4	217	21.70	93.10	.82
5	63	6.30	99.40	.96
б	б	.60	100.00	1.00
7	0	.00	100.00	1.00

#### Summary Data Matrices

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Matrix of No. of Taxa in Common Between Localities

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	3	3	1	1	0	0	1	3	3	3	3	0	1	2	2
2	3	5	1	1	0	0	3	4	5	5	4	0	1	3	3
3	1	1	2	0	0	0	1	1	2	2	2	0	1	1	1
4	1	1	0	7	2	2	2	5	6	7	7	2	1	1	2
5	0	0	0	2	4	1	0	2	3	3	3	1	0	1	0
6	0	0	0	2	1	4	2	3	3	4	3	2	0	1	2
7	1	3	1	2	0	2	12	5	11	12	7	1	1	2	5
8	3	4	1	5	2	3	5	12	11	12	12	2	2	4	6
9	3	5	2	6	3	3	11	11	22	22	16	2	3	6	11
10	3	5	2	7	3	4	12	12	22	25	18	2	3	6	11
11	3	4	2	7	3	3	7	12	16	18	18	2	3	6	7
12	0	0	0	2	1	2	1	2	2	2	2	2	0	0	1
13	1	1	1	1	0	0	1	2	3	3	3	0	3	1	1
14	2	3	1	1	1	1	2	4	6	6	6	0	1	6	4
15	2	3	1	2	0	2	5	6	11	11	7	1	1	4	11

Summary of Faunal Simulations

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The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1].

1	[ <b>C</b> ] Ougarta [3]	[G] Armorican Massif [7]	Est. faunal index = .	.487
2	[ <b>C</b> ] Ougarta [3]	[H] Montagne Noire [8]	Est. faunal index =	.460
3	[G] Armorican Massif [	7] [L] Suva Planina Mts.[12]	Est. faunal index = .	.470

Average Faunal Index = .472 Standard Deviation = .014

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The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1].

1 [ <b>C</b> ] Ougart	a [3] [ <b>G</b> ] Arn	norican Massif [7]	Est. faunal index =	.472
2 [ <b>C</b> ] Ougart	a [3] [ <b>H</b> ] Moi	ntagne Noire [8]	Est. faunal index =	.472
3 [G] Armori	can Massif [7] [ <b>L</b> ] Su	iva Planina Mts.[12]	Est. faunal index =	.472

Average Faunal Index = .472 Standard Deviation = NaN

The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1].

1 [C] Ougarta [3]	[G] Armorican Massif [7]	Est. faunal index = .472
2 [ <b>C</b> ] Ougarta [3]	[H] Montagne Noire [8]	Est. faunal index = .472
3 [G] Armorican Massi	f [7] [L] Suva Planina Mts.[12]	Est. faunal index = .472

Average Faunal Index = .472

Standard Deviation = NaN

The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1].

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1 [**C**] Ougarta [3] [G] Armorican Massif [7] Est. faunal index = .472[H] Montagne Noire [8] 2 [**C**] Ougarta [3] Est. faunal index = .4723 [G] Armorican Massif [7] [L] Suva Planina Mts.[12] Est. faunal index = .472Average Faunal Index = .472Standard Deviation = NaN \_\_\_\_\_ The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1]. 1 [**C**] Ougarta [3] [**G**] Armorican Massif [7] Est. faunal index = .472[H] Montagne Noire [8] 2 [**C**] Ougarta [3] Est. faunal index = .4723 [G] Armorican Massif [7] [L] Suva Planina Mts.[12] Est. faunal index = .472Average Faunal Index = .472 Standard Deviation = NaN \_\_\_\_\_ The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1]. [G] Armorican Massif [7] 1 [**C**] Ougarta [3] Est. faunal index = .4722 [**C**] Ougarta [3] [H] Montagne Noire [8] Est. faunal index = .472 3 [G] Armorican Massif [7] [L] Suva Planina Mts.[12] Est. faunal index = .472Average Faunal Index = .472 Standard Deviation = NaN The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1]. 1 [**C**] Ougarta [3] [G] Armorican Massif [7] Est. faunal index = .472[H] Montagne Noire [8] 2 [**C**] Ougarta [3] Est. faunal index = .4723 [G] Armorican Massif [7] [L] Suva Planina Mts.[12] Est. faunal index = .472Standard Deviation = NaN Average Faunal Index = .472

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The following comparisons contain equivalent occurrence structures [2 & 12]

as well as the same number of taxa in common [1].

1 [ <b>C</b> ] Ougarta [3]	[G] Armorican Massif [7]	Est. faunal index = .472
2 [ <b>C</b> ] Ougarta [3]	[H] Montagne Noire [8]	Est. faunal index = .472
3 [G] Armorican Massif	[7] [L] Suva Planina Mts.[12]	Est. faunal index = .472

Average Faunal Index = .472 Standard Deviation = NaN

The following comparisons contain equivalent occurrence structures [2 & 12] as well as the same number of taxa in common [1].

1 [C] Ougarta [3]	[G] Armorican Massif [7]	Est. faunal index = .472
2 [ <b>C</b> ] Ougarta [3]	[H] Montagne Noire [8]	Est. faunal index = .472
3 [G] Armorican Massif	[7] [L] Suva Planina Mts.[12]	Est. faunal index = .472

Average Faunal Index = .472 Standard Deviation = NaN

The following comparisons contain equivalent occurrence structures [ 4 & 18] as well as the same number of taxa in common [ 3].

1	[E] Catalunya [5]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .480
2	[F] E Pyrenees [6]	[K] Carnic Alps [11]	Est. faunal index = .475

Average Faunal Index = .477 Standard Deviation = .004

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The following comparisons contain equivalent occurrence structures [4 & 18] as well as the same number of taxa in common [3].

1	[E] Catalunya [5]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .477			
2	[F] E Pyrenees [6]	[K] Carnic Alps [11]	Est. faunal index = .477			

Average Faunal Index = .477 Standard Deviation = .000

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The following comparisons contain equivalent occurrence structures [4 & 18] as well as the same number of taxa in common [3].

1	[E] Catalunya [5]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .477
2	[F] E Pyrenees [6]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .477

Average Faunal Index = .477 Standard Deviation = .000

The following comparisons contain equivalent occurrence structures [4 & 18] as well as the same number of taxa in common [3].

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<ol> <li>[<b>E</b>] Catalunya [5]</li> <li>[<b>F</b>] E Pyrenees [6]</li> </ol>		Est. faunal index = .477 Est. faunal index = .477							
Average Faunal Index = .477 Standard Deviation = .000									
The following comparisons contain equivalent occurrence structures [4 & 18] as well as the same number of taxa in common [3].									
1 [ <b>E</b> ] Catalunya [5]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .477							
2 [F] E Pyrenees [6]	[ <b>K</b> ] Carnic Alps [11]	Est. faunal index = .477							
Average Faunal Index = .477		rd Deviation = .000							
The following comparisons contain equivalent occurrence structures [12 & 22] as well as the same number of taxa in common [11].									
1 [G] Armorican Massif [	7] [I] Sardinia [9]	Est. faunal index = .603							
2 [H] Montagne Noire [8] [I] Sardinia [9] Est. faunal index = .625									
Average Faunal Index = .614 Standard Deviation = .016									
The following comparisons contain equivalent occurrence structures [12 & 25]									

as well as the same number of taxa in common [12].

1 [G] Armorican Massif [7]	[ <b>J</b> ] Prague Basin [10]	Est. faunal index = .635
2 [H] Montagne Noire [8]	[J] Prague Basin [10]	Est. faunal index = .629
Average Faunal Index = .632	Standard Devia	tion = .004

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1.000	.999	.871	.553	.261	.280	.283	.942	.641	.531	.781	.379	.790	.902	.692
2	.999	1.000	.776	.319	.171	.171	.634	.882	.727	.549	.586	.303	.665	.946	.712
3	.871	.776	1.000	.237	.335	.342	.472	.472	.587	.516	.715	.421	.876	.719	.530
4	.553	.319	.237	1.000	.789	.777	.101	.859	.363	.570	.956	.957	.539	.228	.131
5	.261	.171	.335	.789	1.000	.638	.020	472	.212	.028	.477	.823	.261	.497	.043
6	.280	.171	.342	.377	.638	1.000	.472	.303	.219	.538	.477	.089	.269	.485	.529
7	.283	.634	.472	.101	.020	.472	1.000	.209	.614	.632	.053	.472	.283	.168	.309
8	.942	.882	.472	.859	.472	.803	.209	1.000	.614	.632	.997	.859	.688	.776	.619
9	.641	.727	.587	.363	.212	.219	.614	.614	1.000	.803	.576	.604	.651	.766	.892
10	.531	.549	.516	.570	.028	.538	.632	.632	.803	1.000	.712	.521	.530	.565	.609
11	.781	.586	.415	.956	.477	.477	.053	.997	.576	.712	1.000	.711	.789	.921	.149
12	.379	.303	.421	.957	.823	.989	.472	.859	.604	.521	.711	1.000	.370	.261	.520
13	.790	.665	.876	.539	.261	.269	.283	.688	.651	.530	.789	.370	1.000	.621	.322
14	.902	.946	.719	.228	.497	.485	.168	.776	.766	.565	.921	.261	.621	1.000	.823
15	692	.712	.530	.131	.043	.529	.309	.619	.892	.409	.149	.520	.322	.823	1.000

Summary Matrix of Raup and Crick (1979) Faunal Similarity Values