

Morrone & Escalante (2002) Geodis output for nesting level 6

Differentiating population structure from history - Geodis 2.3 beta
(c) Copyright, 1999-2004 David Posada and Alan Templeton
Contact: David Posada, University of Vigo, Spain (dposada@uvigo.es)

Input file: C:\Documents and Settings\Anthony
Deo\Desktop\geo_in_transfer\geodis_in_level6_final
Endemic Areas Mexico

Wed Mar 16 11:45:31 EST 2005

PERMUTATION ANALYSIS OF 6-1 BASED ON 1000 RESAMPLES

PART I. PERMUTATIONAL CONTINGENCY TEST:

OBSERVED CHI-SQUARE STATISTIC = 904.9569

THE PROBABILITY OF A RANDOM CHI-SQUARE BEING GREATER THAN
OR EQUAL TO THE OBSERVED CHI-SQUARE = 0.0000

PART II. GEOGRAPHIC DISTANCE ANALYSIS:

GEOGRAPHICAL CENTERS	LATITUDE	LONGITUDE
6-1	20.0822	99.2046
5-1	19.9753	98.7547
5-2	20.3114	100.1696

CLADE 5-1 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	374.1380	0.0030	0.9970
NESTED CLADE	378.2746	0.0310	0.9690

CLADE 5-2 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	406.6287	0.9260	0.0740
NESTED CLADE	415.0994	0.9830	0.0170

NO INTERIOR/TIP CLADES EXIST IN THIS GROUP

PERMUTATION ANALYSIS OF 6-2 BASED ON 1000 RESAMPLES

PART I. PERMUTATIONAL CONTINGENCY TEST:

OBSERVED CHI-SQUARE STATISTIC = 1031.6663

THE PROBABILITY OF A RANDOM CHI-SQUARE BEING GREATER THAN
OR EQUAL TO THE OBSERVED CHI-SQUARE = 0.0000

PART II. GEOGRAPHIC DISTANCE ANALYSIS:

GEOGRAPHICAL CENTERS	LATITUDE	LONGITUDE
6-2	19.1216	94.3561
5-3	19.0420	93.3244
5-6	19.1617	94.8754

CLADE 5-3 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	366.6582	0.0000	1.0000
NESTED CLADE	382.8919	0.0000	1.0000

CLADE 5-6 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	552.4490	1.0000	0.0000
NESTED CLADE	559.0628	1.0000	0.0000

NO INTERIOR/TIP CLADES EXIST IN THIS GROUP

PERMUTATION ANALYSIS OF 6-3
BASED ON 1000 RESAMPLES

PART I. PERMUTATIONAL CONTINGENCY TEST:

OBSERVED CHI-SQUARE STATISTIC = 1081.2018

THE PROBABILITY OF A RANDOM CHI-SQUARE BEING GREATER THAN
OR EQUAL TO THE OBSERVED CHI-SQUARE = 0.0000

PART II. GEOGRAPHIC DISTANCE ANALYSIS:

GEOGRAPHICAL CENTERS	LATITUDE	LONGITUDE
6-3	25.9765	106.3715
5-4	27.0618	108.2855
5-5	23.9819	102.8539

CLADE 5-4 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	568.0931	0.8830	0.1170
NESTED CLADE	589.3904	1.0000	0.0000

CLADE 5-5 (Interior)

TYPE OF DISTANCE	DISTANCE	PROB.<=	PROB.>=
WITHIN CLADE	340.8701	0.0000	1.0000

NESTED CLADE	497.8996	0.0000	1.0000
--------------	----------	--------	--------

NO INTERIOR/TIP CLADES EXIST IN THIS GROUP

** ANALYSIS FINISHED **
It took 1364.5780 seconds.