The checkered history of checkerboard distributions

[1,4] [2] [3]

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A) True complete checkerboard

1010101010101010101010101 Black
0101010101010101010101010 White

B) Exclusive distribution

U(R, S)

(R)   (S)

” (, . 2011).
’ (1 75)

” (, 2011, , . 2012, , 2013).

, . (1 6)

(2011), , , . (2012), ,

Analytical procedures

n = 1000   (1 75),   fewer

(. 1).

Comparing congeneric and within-guild pairs to pairs of unrelated species.

$\alpha = 0.2$

$\alpha = 0.2$

1000

n

n − 1   F

F   1000

F

F

F

2

Calculating power of our tests.

n $\alpha = 0.2$,

α , 0.2

S ,

α , ,

n

U(R, S),   S

(n = 1000),

S   0.31

(1 7)

S

0, 1, 2, 3, …   ;

S

( ),

1.

	12	0	0	0
	1 528	61	55	0
	1 540	61	55	0
	7	0	0	0
	102	27	17	11
	11 073	1484	84	553
	11 175	1511	1001	564
	110	25	12	1
	7	23	1	1
	773	1 3	1678	1476
	870	1 62	16 7	14 5
	53		2	1

Notes:

(1 76)　　　　　　　.(200)　　　56　　28

,150　　41 ,　　　　141　　142

α, 0.2

. 2 4

S

$\alpha = 0.257$.

(

)

(. .,　　　　　　　　)

(　　　　, $F_{2,1536} = 0.5716$, $P = 0.7$

, $F_{2, 10\,607} = 2.2828$, P . 0.

, $F_{2,8371} = 2.\,26$, $P = 0.\,71$).

$= 1, 2,\quad 3$　　　　　　　α

, 0.2　　　　　　　0.54 6 0.02 (

), 0.6 6 0.03 ,　0.75 6 0.046,

; 1%

(. .,　　　10

1000　　)

(,　,　　2010).

Vanuatu

(　　　, 1

(　　　　　- ,　　) 2).

(　),

(,　2).

α, 0.2 (, 2, . 2).

(, 2) , α , 0.2,).

, - ; - ;

, (P . 0.

, α , 0.2 (, 2).

(α , 0.2),

( ).

' (1 75 388) ...

"

- ; (, 2

). , α , 0.2, (. - (

4).) , -

,

(P . 0.). Myzomela

(P = 0.023). ,

α , 0.2

( )

( )

( )

$\alpha = 0.20,$

α , 0.2

1 2

168(,)-35.

4   10

(1 82)

(1 84)