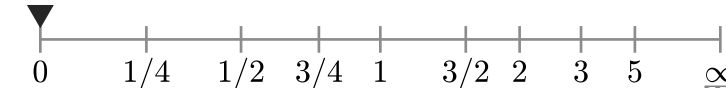


Ω_1 : Barro Colorado Island, 1985 Census, top $10^{1.5}$

Ω_2 : Barro Colorado Island, 2015 Census top $10^{1.5}$

Instrument: Rank-Turbulence Divergence

$\alpha=0$



$$D_0^R(\Omega_1 \parallel \Omega_2) = 0.152$$

$$\propto \sum_{\tau} \left| \ln \frac{r_{\tau,1}}{r_{\tau,2}} \right|$$

1

← more abundant
Barro Colorado Island, 1985 Census, top $10^{1.5}$

Rank r for Barro Colorado Island, 1985 Census, top $10^{1.5}$

100 Counts per cell

Trichilia tube...ata

Oenocarpus mapora

Psychotria hor...lis

Piper cordulatum

Poulsenia armata

Cordia lasiocalyx

Pombalia prunifolia

Faramea occidentalis

Desmopsis panamensis

Alseis blackiana

Mouriri myrtilloides

Swartzia simplex

Protium stevensonii

Protium tenuifolium

Eugenia galalonensis

Tabernaemontan...rea

1,000 1,000

← less abundant

Barro Colorado Island, 2015 Census top $10^{1.5}$

Rank r for

Barro Colorado Island, 2015 Census top $10^{1.5}$

Balances:

51.6% total individuals 48.4%

83.8% all species 83.8%

19.4% exclusive species 19.4%

Divergence contribution $\delta D_{0,\tau}^R$ (%)

10 5 0 5 10

◁Piper cordulatum	9⇌34
Psychotria horizontalis	8⇌23
◁Poulsenia armata	14⇌34
34⇌16	Eugenia galalonensis▷
34⇌17	Cupania seemannii▷
16⇌9	Protium stevensonii
Tachigali panamensis	17⇌30
31⇌18	Coussarea curvigemmia
19⇌12	Protium panamense
◁Virola sebifera	22⇌34
34⇌22	Calophyllum longifolium▷
20⇌13	Protium tenuifolium
34⇌25	Xylopia macrantha▷
Trichilia tuberculata	3⇌4
4⇌3	Desmopsis panamensis
Beilschmiedia towarensis	21⇌28
13⇌10	Garcinia recondita
18⇌14	Rinorea sylvatica
Sorocea affinis	15⇌19
10⇌8	Swartzia simplex
Capparidastrum frondosum	12⇌15
26⇌21	Acalypha diversifolia
◁Cordia lasiocalyx	28⇌34
Oenocarpus mapora	5⇌6
6⇌5	Alseis blackiana
◁Guatteria lucens	29⇌34
34⇌29	Tabernaemontana arborea▷
23⇌20	Quararibea asterolepis
◁Pouteria reticulata	30⇌34
27⇌24	Guarea guidonia
34⇌31	Simarouba amara▷
Drypetes standleyi	24⇌26
Eugenia oerstediana	25⇌27

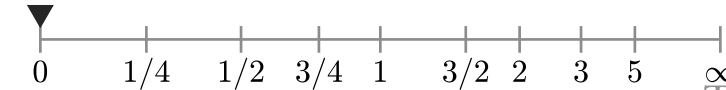
50.0%—50.0%

Ω_1 : Barro Colorado Island, 1985 Census, top $10^{2.0}$

Ω_2 : Barro Colorado Island, 2015 Census top $10^{2.0}$

Instrument: Rank-Turbulence Divergence

$\alpha=0$



$$D_0^R(\Omega_1 \parallel \Omega_2) = 0.118$$

$$\propto \sum_{\tau} \left| \ln \frac{r_{\tau,1}}{r_{\tau,2}} \right|$$

1

Piper cordulatum

Psychotria hor...lis

Sorocea affinis

Poulsenia armata

Hasseltia floribunda

Bactris major

Trophis caucana

10

Rank r
for
1985 Census, top $10^{2.0}$

100

1,000

1,000

Pombalia prunifolia

Faramea occidentalis

Trichilia tube...ata

Desmopsis panamensis

Oenocarpus mapora

Alseis blackiana

Mouriri myrtilloides

Swartzia simplex

Protium stevensonii

Protium tenuifolium

Eugenia galalonensis

Calophyllum lo...ium

Palicourea gui...sis

Inga acuminata

Mosannonna garwoodii

10

Rank r
for
2015 Census top $10^{2.0}$

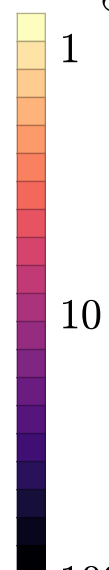
100

1,000

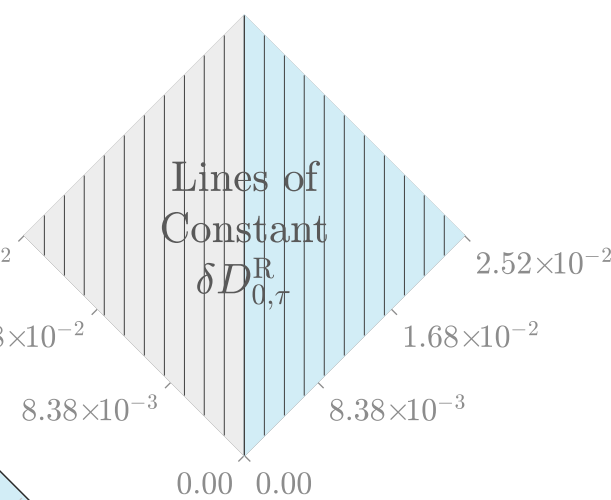
1,000

← more
abundant
Barro Colorado Island,
1985 Census, top $10^{2.0}$

more →
abundant
Barro Colorado Island,
2015 Census top $10^{2.0}$



100
Counts per cell



Divergence contribution $\delta D_{0,\tau}^R$ (%)

6 4 2 0 2 4 6

◁Piper cordulatum	9⇌104
Poulsenia armata	14⇌53
	65⇌22
Psychotria horizontalis	8⇌23
	46⇌16
	93⇌33
	83⇌35
	104⇌45
	39⇌17
	54⇌25
Hasseltia floribunda	37⇌77
Guarea bullata	34⇌70
Ocotea whitei	44⇌81
Virola sebifera	22⇌40
	78⇌43
Bactris major	48⇌86
	16⇌9
Tachigali panamensis	17⇌30
Guatteria lucens	29⇌50
	31⇌18
Pouteria reticulata	30⇌48
	104⇌65
	19⇌12
	89⇌57
	20⇌13
	74⇌49
	28⇌42
Socratea exorrhiza	58⇌87
	61⇌41
Pterocarpus hayesii	32⇌46
	62⇌44
Garcinia madruno	64⇌90
	104⇌76
	100⇌74
◁Trophis caucana	77⇌104
Pentagonia macrophylla	68⇌91
Trichilia tuberculata	3⇌4
	4⇌3
Beilschmiedia tovarensis	21⇌28
	41⇌31

Balances:

51.4% total individuals 48.6%

93.5% all species 93.5%

7.0% exclusive species 7.0%

50.0%—50.0%

Ω_1 : Barro Colorado Island, 1985 Census, top $10^{2.5}$

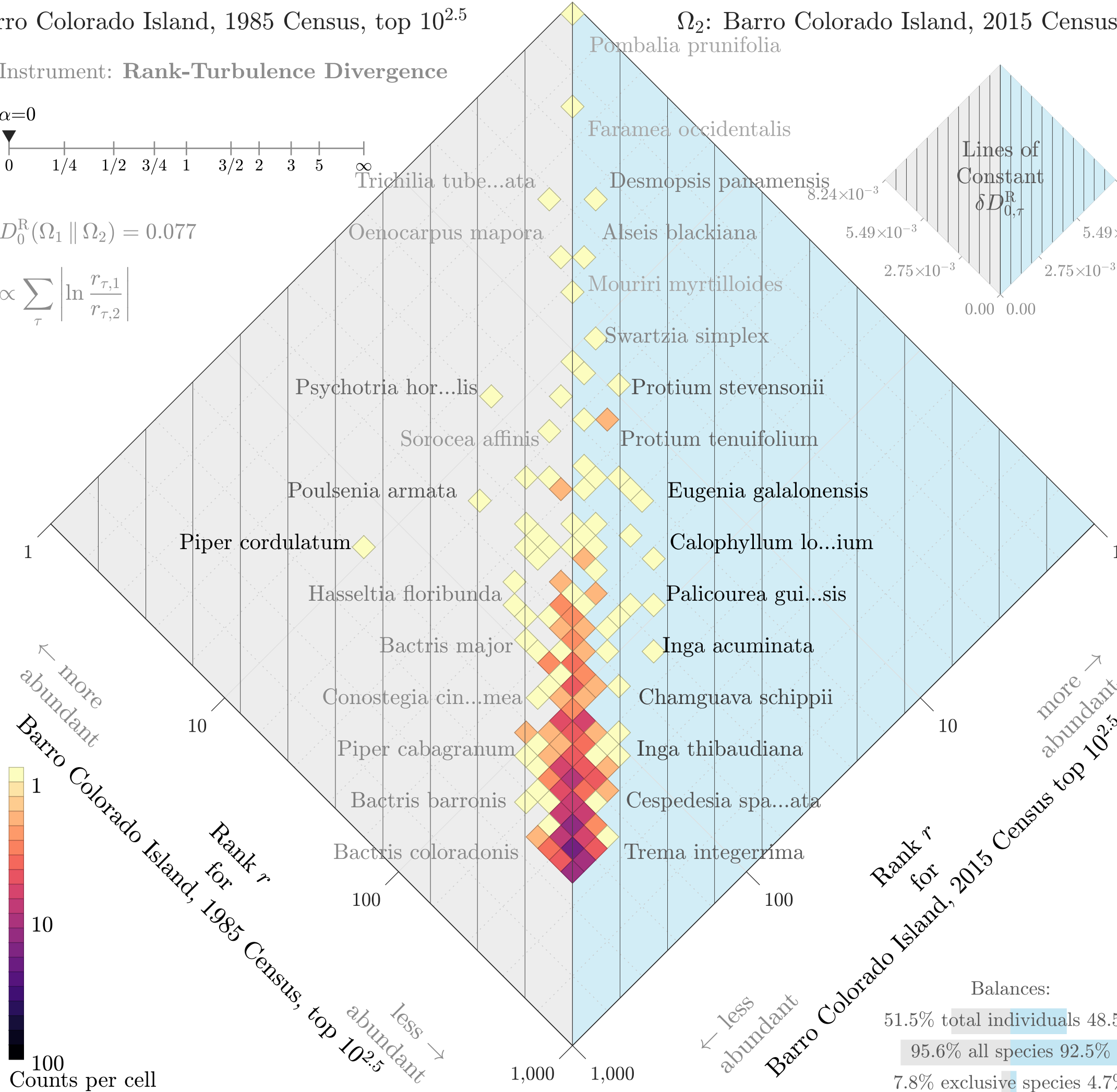
Ω_2 : Barro Colorado Island, 2015 Census top $10^{2.5}$

Instrument: Rank-Turbulence Divergence

$\alpha=0$

$D_0^R(\Omega_1 \parallel \Omega_2) = 0.077$

$$\propto \sum_{\tau} \left| \ln \frac{r_{\tau,1}}{r_{\tau,2}} \right|$$



Divergence contribution $\delta D_{0,\tau}^R$ (%)

