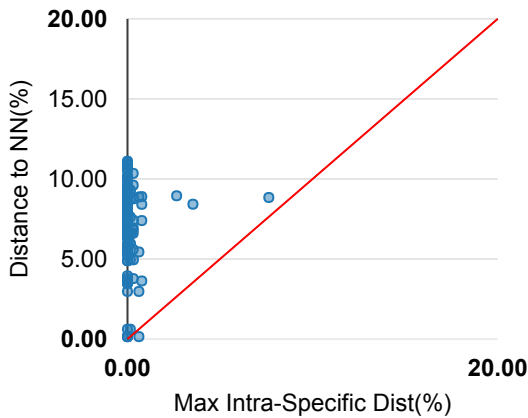


Barcode Gap Analysis Result - Search: Geo(Uttarakhand) (250 records returned) (250 records selected)

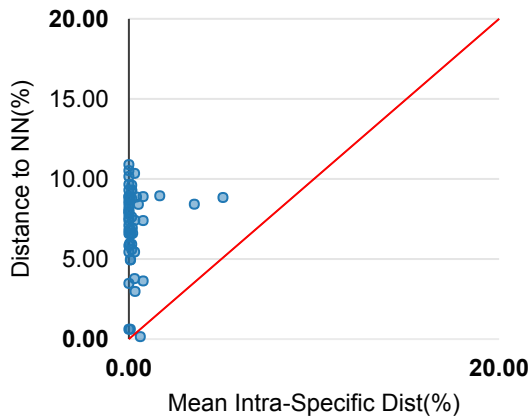
Scatter Plots

Three scatterplots are provided to confirm the existence and magnitude of the Barcode Gap. The first two scatterplots show the overlap of the max and mean intra-specific distances vs the inter-specific (nearest neighbour) distances. The third scatterplot plots the number of individuals in each species against their max intra-specific distances, as a test for sampling bias.

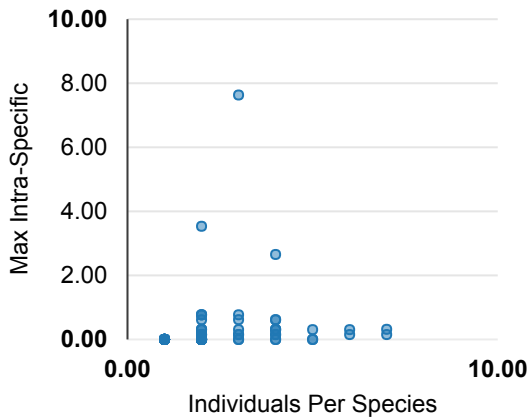
Max Intra-Specific vs Nearest Neighbour



Mean Intra-Specific vs Nearest Neighbour

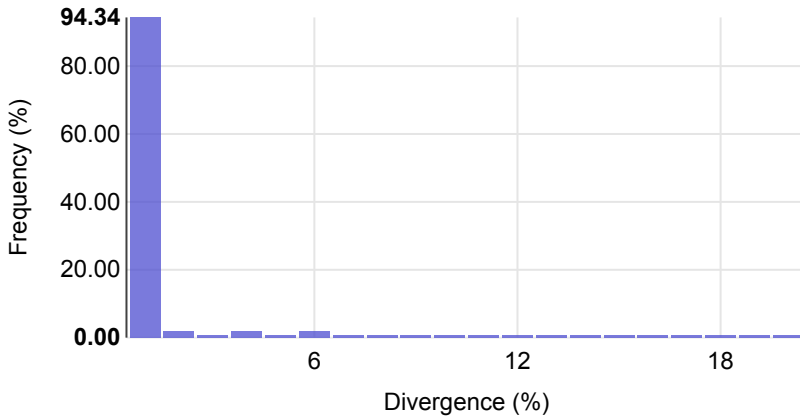


Individuals Per Species vs Max Intra-Specific



Distance Distribution Histograms

Mean Intra-Specific

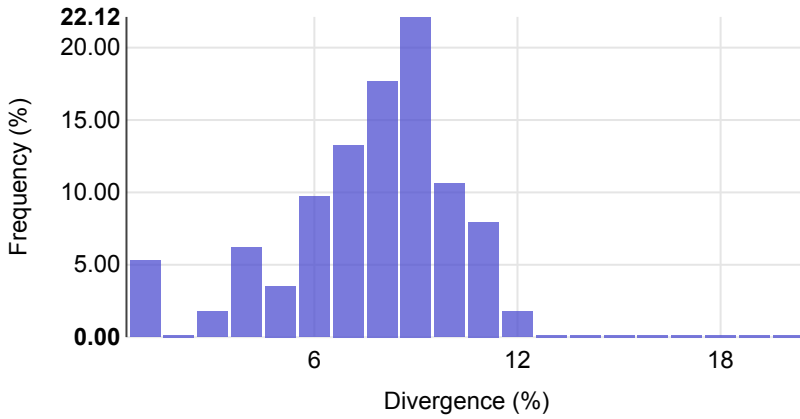


Distribution Details

Min: 0 Mean: 0.16

Max: 0 SE: 0.01

Distance to Nearest Neighbour



Distribution Details

Min: 0.15 Mean: 7.17

Max: 11.11 SE: 0.02

Details for Species Comparisons

 [Show Warnings Only](#)

For each species, the mean and maximum intra-specific values are compared to the nearest neighbour distance in the table below. Where the species is a singleton, N/A is displayed for intra-specific values. Distances are highlighted if the nearest neighbour is less than 2% divergent, or when the distance to the nearest neighbour is less than the max intra-specific distance. Toggle the "Show Warnings Only" button to show only highlighted records.

Order	Family	Species	Mean Intra-Sp [tbl]	Max Intra-Sp [tbl]	Nearest Neighbour	Nearest Species	Distance to NN [tbl]
Lepidoptera	Geometridae	Abraxas superpicaria	0.31	0.31	GWOTS044-17	Arichanna tenebraria	10.35
Lepidoptera	Geometridae	Alcis PD01	N/A	0	GWOTS086-17	Alcis nudipennis	6.29
Lepidoptera	Geometridae	Alcis leucophaea	0.08	0.15	GWOTS086-17	Alcis nudipennis	0.62

Lepidoptera	Geometridae	Alcis nigralbata PD01	N/A	0	GWOTS013- 17	Alcis leucophaea	7.29
Lepidoptera	Geometridae	Alcis nudipennis	0	0	GWOTS013- 17	Alcis leucophaea	0.62
Lepidoptera	Geometridae	Alcis paghmana	0.31	0.62	GWOTS006- 17	Alcis perspicuata	5.44
Lepidoptera	Geometridae	Alcis perspicuata	0	0	GWOTS002- 17	Alcis paghmana	5.44
Lepidoptera	Geometridae	Alcis semiclarata	0	0	GWOTS015- 17	Alcis nigralbata PD01	7.98
Lepidoptera	Geometridae	Anonychia grisea	N/A	0	GWOTS057- 17	Anonychia lativitta	7.4
Lepidoptera	Geometridae	Anonychia lativitta	0.77	0.77	GWOTS062- 17	Anonychia grisea	7.4
Lepidoptera	Geometridae	Apithecia viridata	0	0	GWOTS199- 17	Perizoma PD01	8.87
Lepidoptera	Geometridae	Arichanna flavinigra	N/A	0	GWOTS043- 17	Arichanna sparsa	3.63
Lepidoptera	Geometridae	Arichanna sparsa	0.77	0.77	GWOTS042- 17	Arichanna flavinigra	3.63
Lepidoptera	Geometridae	Arichanna tenebraria	N/A	0	GWOTS043- 17	Arichanna sparsa	5.74
Lepidoptera	Geometridae	Artemidora disistaria	0.05	0.15	GWOTS042- 17	Arichanna flavinigra	8.75
Lepidoptera	Geometridae	Colostygia albigirata	0	0	GWOTS186- 17	Xanthorhoe PD02	7.81
Lepidoptera	Geometridae	Colostygia albigirata PD01	N/A	0	GWOTS201- 17	Xanthorhoe PD02	5.84
Lepidoptera	Geometridae	Costicoma exangulata	0	0	GWOTS151- 17	Electrophaes marginata	8.18
Lepidoptera	Geometridae	Ctenognophos eolaria	N/A	0	GWOTS064- 17	Ctenognophos fuscobrunnea	5.97
Lepidoptera	Geometridae	Ctenognophos fuscobrunnea	0.04	0.15	GWOTS068- 17	Ctenognophos eolaria	5.97
Lepidoptera	Geometridae	Dysstroma dentifera	0	0	GWOTS207- 17	Costicoma exangulata	8.63
Lepidoptera	Geometridae	Ecliptopera postpallida	N/A	0	GWOTS149- 17	Ecliptopera substituta	4.89
Lepidoptera	Geometridae	Ecliptopera substituta	N/A	0	GWOTS150- 17	Ecliptopera postpallida	4.89
Lepidoptera	Geometridae	Ectropis PD01	N/A	0	GWOTS076- 17	Opisthograptis mimulina	8.23
Lepidoptera	Geometridae	Electrophaes marginata	N/A	0	GWOTS207- 17	Costicoma exangulata	8.18

Lepidoptera	Geometridae	Electrophaes niveonotata PD01	N/A	0	GWOTS151-17	Electrophaes marginata	9.22
Lepidoptera	Geometridae	Electrophaes zaphenges	N/A	0	GWOTS151-17	Electrophaes marginata	8.51
Lepidoptera	Geometridae	Entephria PD01	N/A	0	GWOTS245-17	Photoscotosia amplicata	9.32
Lepidoptera	Geometridae	Entephria poliotaria	N/A	0	GWOTS192-17	Photoscotosia amplicata	7.57
Lepidoptera	Geometridae	Epitherina sp. 1	N/A	0	GWOTS082-17	Prometopidia conisaria	6.58
Lepidoptera	Geometridae	Euphyia PD01	N/A	0	GWOTS178-17	Horisme nigrovittata	9.28
Lepidoptera	Geometridae	Euphyia subangulata	3.53	3.53	GWOTS124-17	Perizoma seriata	8.42
Lepidoptera	Geometridae	Eupithecia PD01	0	0	GWOTS168-17	Eupithecia PD02	9.31
Lepidoptera	Geometridae	Eupithecia PD02	0.15	0.15	GWOTS165-17	Eupithecia PD01	9.31
Lepidoptera	Geometridae	Eupithecia PD03	N/A	0	GWOTS165-17	Eupithecia PD01	11.11
Lepidoptera	Geometridae	Eupithecia acuta	N/A	0	GWOTS159-17	Eupithecia quadripunctata	5.59
Lepidoptera	Geometridae	Eupithecia darjeelica	N/A	0	GWOTS158-17	Eupithecia acuta	8.6
Lepidoptera	Geometridae	Eupithecia fletcheri	N/A	0	GWOTS201-17	Xanthorhoe PD02	7.45
Lepidoptera	Geometridae	Eupithecia lilliputana	N/A	0	GWOTS162-17	Eupithecia fletcheri	8.59
Lepidoptera	Geometridae	Eupithecia nigrilinea	N/A	0	GWOTS201-17	Xanthorhoe PD02	10.66
Lepidoptera	Geometridae	Eupithecia quadripunctata	0.15	0.31	GWOTS158-17	Eupithecia acuta	5.59
Lepidoptera	Geometridae	Eupithecia subrubescens	N/A	0	GWOTS135-17	Perizoma seriata	9.98
Lepidoptera	Geometridae	Gnophos albidior	0.15	0.31	GWOTS033-17	Sirinopteryx duplicilinea	9.61
Lepidoptera	Geometridae	Hemithea distinctaria	0.16	0.32	GWOTS062-17	Anonychia grisea	8.76
Lepidoptera	Geometridae	Heterolocha falconaria PD01	0	0	GWOTS037-17	Heterolocha phoenicotaeniata	7.98
Lepidoptera	Geometridae	Heterolocha patalata	0	0	GWOTS079-17	Psyra moderata PD01	10.15
Lepidoptera	Geometridae	Heterolocha phoenicotaeniata	N/A	0	GWOTS038-17	Heterolocha falconaria PD01	7.98

Lepidoptera	Geometridae	Hirasa muscosaria PD01	0	0	GWOTS076-17	Opisthograptis mimulina	7.57
Lepidoptera	Geometridae	Horisme PD01	N/A	0	GWOTS178-17	Horisme nigrovittata	3.95
Lepidoptera	Geometridae	Horisme PD02	N/A	0	GWOTS178-17	Horisme nigrovittata	3.78
Lepidoptera	Geometridae	Horisme PD03	N/A	0	GWOTS178-17	Horisme nigrovittata	5.24
Lepidoptera	Geometridae	Horisme nigrovittata	0.31	0.31	GWOTS180-17	Horisme PD02	3.78
Lepidoptera	Geometridae	Horisme plurilineata	0.15	0.15	GWOTS179-17	Horisme PD01	5.92
Lepidoptera	Geometridae	Hydrelia rubricosta	0	0	GWOTS178-17	Horisme nigrovittata	9.66
Lepidoptera	Geometridae	Hydrelia sericea	N/A	0	GWOTS206-17	Euphyia subangulata	9.97
Lepidoptera	Geometridae	Idaea PD01	N/A	0	GWOTS234-17	Idaea PD02	10.05
Lepidoptera	Geometridae	Idaea PD02	N/A	0	GWOTS247-17	Idaea sp. 2	8.46
Lepidoptera	Geometridae	Idaea sp. 2	N/A	0	GWOTS234-17	Idaea PD02	8.46
Lepidoptera	Geometridae	Lomographa distans	0	0	GWOTS042-17	Arichanna flavinigra	8.92
Lepidoptera	Geometridae	Loxaspilates obliquaria	1.67	2.65	GWOTS079-17	Psyra moderata PD01	8.95
Lepidoptera	Geometridae	Martania affinis	0	0	GWOTS148-17	Perizoma constricta	6.8
Lepidoptera	Geometridae	Martania micropunctum	0.2	0.31	GWOTS121-17	Perizoma sp.	6.61
Lepidoptera	Geometridae	Medasina albidaria	N/A	0	GWOTS107-17	Triphosa dubiosata PD01	9.45
Lepidoptera	Geometridae	Myrioblephara duplexa PD01	0	0	GWOTS041-17	Arichanna sparsa	8.44
Lepidoptera	Geometridae	Neotephria PD01	0	0	GWOTS207-17	Costicoma exangulata	10.52
Lepidoptera	Geometridae	Odontopera kametaria	0.32	0.32	GWOTS027-17	Odontopera veneris	7.42
Lepidoptera	Geometridae	Odontopera veneris	0	0	GWOTS024-17	Odontopera kametaria	7.42
Lepidoptera	Geometridae	Opisthograptis PD01	N/A	0	GWOTS075-17	Opisthograptis mimulina	0.15
Lepidoptera	Geometridae	Opisthograptis mimulina	0.62	0.62	GWOTS077-17	Opisthograptis PD01	0.15

Lepidoptera	Geometridae	Orthonama obstipata	0.77	0.77	GWOTS201-17	Xanthorhoe PD02	8.9
Lepidoptera	Geometridae	Ourapteryx PD01	N/A	0	GWOTS034-17	Sirinopteryx PD01	7.73
Lepidoptera	Geometridae	Parentephria debilis	N/A	0	GWOTS246-17	Parentephria stellata	2.98
Lepidoptera	Geometridae	Parentephria stellata	0.33	0.62	GWOTS098-17	Parentephria debilis	2.98
Lepidoptera	Geometridae	Peetula stramineata	N/A	0	GWOTS042-17	Arichanna flavinigra	7.4
Lepidoptera	Geometridae	Perizoma PD01	0.41	0.62	GWOTS202-17	Apithecia viridata	8.87
Lepidoptera	Geometridae	Perizoma PD02	N/A	0	GWOTS126-17	Perizoma seriata	6.9
Lepidoptera	Geometridae	Perizoma conjuncta	N/A	0	GWOTS125-17	Perizoma conjuncta PD01	0.15
Lepidoptera	Geometridae	Perizoma conjuncta PD01	N/A	0	GWOTS143-17	Perizoma conjuncta	0.15
Lepidoptera	Geometridae	Perizoma constricta	0.1	0.31	GWOTS128-17	Martania affinis	6.8
Lepidoptera	Geometridae	Perizoma seriata	0.09	0.32	GWOTS140-17	Perizoma vinculata	4.95
Lepidoptera	Geometridae	Perizoma sp.	N/A	0	GWOTS117-17	Martania micropunctum	6.61
Lepidoptera	Geometridae	Perizoma variabilis	0.15	0.15	GWOTS124-17	Perizoma seriata	7.63
Lepidoptera	Geometridae	Perizoma vinculata	0.08	0.15	GWOTS137-17	Perizoma seriata	4.95
Lepidoptera	Geometridae	Photoscotosia amplicata	0.18	0.31	GWOTS050-17	Photoscotosia occidens	6.94
Lepidoptera	Geometridae	Photoscotosia miniosata	N/A	0	GWOTS192-17	Photoscotosia amplicata	7.27
Lepidoptera	Geometridae	Photoscotosia occidens	N/A	0	GWOTS245-17	Photoscotosia amplicata	6.94
Lepidoptera	Geometridae	Prometopidia conisaria	0.1	0.15	GWOTS083-17	Epitherina sp. 1	6.58
Lepidoptera	Geometridae	Psilalcis inceptaria	N/A	0	GWOTS042-17	Arichanna flavinigra	8.24
Lepidoptera	Geometridae	Psyra indica	N/A	0	GWOTS079-17	Psyra moderata PD01	9
Lepidoptera	Geometridae	Psyra moderata PD01	N/A	0	GWOTS048-17	Loxaspilates obliquaria	8.95
Lepidoptera	Geometridae	Rheumaptera melanoplaga	N/A	0	GWOTS109-17	Triphosa dubiosata PD01	6.55

Lepidoptera	Geometridae	Rheumaptera tremodes	N/A	0	GWOTS107-17	Triphosa dubiosata PD01	6.75
Lepidoptera	Geometridae	Rhodostrophia aquila	N/A	0	GWOTS245-17	Photoscotosia amplicata	10.15
Lepidoptera	Geometridae	Rhodostrophia herbicolens	N/A	0	GWOTS180-17	Horisme PD02	11.02
Lepidoptera	Geometridae	Sirinopteryx PD01	N/A	0	GWOTS033-17	Sirinopteryx duplicilinea	6.42
Lepidoptera	Geometridae	Sirinopteryx duplicilinea	N/A	0	GWOTS031-17	Sirinopteryx harutai	3.48
Lepidoptera	Geometridae	Sirinopteryx harutai	0	0	GWOTS033-17	Sirinopteryx duplicilinea	3.48
Lepidoptera	Geometridae	Synegiodes hyriaria	N/A	0	GWOTS033-17	Sirinopteryx duplicilinea	10.85
Lepidoptera	Geometridae	Thera comis	N/A	0	GWOTS221-17	Thera consimilis	7.65
Lepidoptera	Geometridae	Thera consimilis	N/A	0	GWOTS223-17	Thera comis	7.65
Lepidoptera	Geometridae	Thera dentifasciata	N/A	0	GWOTS223-17	Thera comis	8.17
Lepidoptera	Geometridae	Trichopterigia PD01	5.08	7.63	GWOTS111-17	Trichopterigia rufinotata	8.84
Lepidoptera	Geometridae	Trichopterigia PD02	N/A	0	GWOTS111-17	Trichopterigia rufinotata	10.02
Lepidoptera	Geometridae	Trichopterigia rufinotata	N/A	0	GWOTS113-17	Trichopterigia PD01	8.84
Lepidoptera	Geometridae	Triphosa PD01	N/A	0	GWOTS105-17	Triphosa venimaculata	7.1
Lepidoptera	Geometridae	Triphosa dubiosata PD01	0.1	0.15	GWOTS063-17	Rheumaptera melanoplagia	6.55
Lepidoptera	Geometridae	Triphosa hydatoplex	0	0	GWOTS107-17	Triphosa dubiosata PD01	6.59
Lepidoptera	Geometridae	Triphosa venimaculata	0	0	GWOTS104-17	Triphosa PD01	7.1
Lepidoptera	Geometridae	Venusia crassisigna	0	0	GWOTS178-17	Horisme nigrovittata	10.9
Lepidoptera	Geometridae	Xanthorhoe PD01	0.15	0.15	GWOTS241-17	Horisme PD03	9.28
Lepidoptera	Geometridae	Xanthorhoe PD02	0	0	GWOTS185-17	Colostygia albigirata PD01	5.84
Lepidoptera	Geometridae	Xanthorhoe saturata	0.51	0.77	GWOTS212-17	Xanthorhoe stupida	8.41
Lepidoptera	Geometridae	Xanthorhoe stupida	N/A	0	GWOTS211-17	Xanthorhoe saturata	8.41

Analysis description



The Barcode Gap Analysis provides the distribution of distances within each species and the distance to the nearest neighbour of each species. Species are tested for the presence of the Barcode Gap.

Distance Model: Kimura 2 Parameter

Marker: COI-5P

Deletion Method: Pairwise Deletion

MinCompleteColumns: 100

Alignment: BOLD Aligner (Amino Acid based HMM)

Filters Applied: ≥ 200 bp only

[Filter Summary](#)

[Data Summary](#)



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