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Appendix S4. Some pictures of our study area.



Early spring of site 56 (25 April, 2011)



Mid-summer of site 39 (6 August, 2011)



A female of stonechat *Saxicola torquata* carrying nest materials in site 26 (1 July, 2011)



Left to right: *Spiraea salicifolia*, and *Adenophora triphylla*, *Hypericum ascyron*



Left to right: *Agastache rugosa*, Senecio cannabifolius

 *Patrinia villosa*

Appendix S5. Details of sampling sites.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| IDa | IDb | Stand age  (in 2011) | Area (ha) | Area for  plant sampling (ha)c | Area class | Number of  plotd | Adjacent patch |
| 4 | 1 | 4 | 2.7 | - | Small | 35 |  |
| 5 | 2 | 4 | 9.9 | - | Large | 154 | Three patches, totally 11.27 ha |
| 11 | 3 | 4 | 5.9 | - | Medium | 93 |  |
| 13 | 4 | 5 | 1.6 | - | Small | 20 |  |
| 24 | 5 | 4 | 4.8 | - | Medium | 66 | One 10.7 ha patch |
| 26 | 6 | 5 | 6.2 | - | Large | 90 |  |
| 31 | 7 | 5 | 5.1 | - | Medium | 73 |  |
| 33 | 8 | 4 | 2.2 | 1.9 | Small | 29 | One 0.22 ha patch |
| 39 | 9 | 4 | 6.4 | 4.8 | Large | 72 |  |
| 43 | 10 | 5 | 3.8 | - | Medium | 55 |  |
| 45 | 11 | 5 | 1.7 | 1.5 | Small | 26 |  |
| 56 | 12 | 6 | 10.0 | - | Large | 161 |  |
| 59 | 13 | 6 | 1.3 | - | Small | 20 | One 0.1 ha patch |

aSite identity used in the map. bSite identity used in the analysis. cArea used for sampling of plant plots. dNumber of plant plots.

Appendix S6. Species list of detected birds.

|  |  |  |  |
| --- | --- | --- | --- |
| Common name | Scientific name | ID | Na |
| Black-faced bunting | Emberiza spodocephala | 1 | 45 |
| Great spotted woodpecker | Dendrocopos major |  |  |
| Brown thrush | Turdus chrysolaus |  |  |
| Wryneck | Jynx torquilla |  |  |
| Japanese grosbeak | Eophona personata |  |  |
| Bush warbler | Cettia diphone |  |  |
| Grey's grasshopper warbler | Locustella fasciolata | 2 | 2 |
| Pale-legged willow warbler | Phylloscopus tenellipes |  |  |
| Hazel grouse | Tetrastes bonasia |  |  |
| Long-tailed tit | Aegithalos caudatus |  |  |
| Latham's snipe | Gallinago hardwickii | 3 | 12 |
| Blue-and-white flycatcher | Cynaptila cynamelana |  |  |
| Eurasian jay | Garrulus glandarius |  |  |
| Common cuckoo | Cuculus canorus | 4 | 1 |
| Oriental greenfinch | Carduelis sinica | 5 | 13 |
| Rufous turtle dove | Streptopelia orientalis |  |  |
| Brown creeper | Cerhia familiaris |  |  |
| Japanese pygmy woodpecker | Dendrocopos kizuki |  |  |
| Asian brown flycatcher | Muscicapa dauurica |  |  |
| Nuthatch | Sitta europaea |  |  |
| Great tit | Parus major |  |  |
| Hawfinch | Coccothraustes coccothraustes |  |  |
| Eastern crowned warbler | Phylloscopus coronatus |  |  |
| Oriental cuckoo | Cuculus saturatus |  |  |
| Cinnamon sparrow | Passer rutilans |  |  |
| Siberian rubythroat | Luscinia calliope | 6 | 1 |
| Stonechat | Saxicola torquata | 7 | 27 |
| Marsh tit | Parus palustris |  |  |
| Carrion crow | Corvus corone |  |  |
| Coal tit | Parus ater |  |  |
| Brown-eared bulbul | Hypsipetes amaurotis |  |  |
| Olive-backed pipit | Anthus hodgsoni | 8 | 22 |
| Long-tailed rosefinch | Uragus sibiricus | 9 | 1 |
| Chestnut-eared bunting | Emberiza fucata | 10 | 1 |
| Siberian meadow bunting | Emberiza cioides | 11 | 19 |
| Siskin | Carduelis spinus |  |  |
| Arctic warbler | Phylloscopus borealis |  |  |
| Bull-headed shrike | Lanius bucephalus | 12 | 6 |
| Short-tailed bush warbler | Urosphena squameiceps |  |  |

aNumber of detected territories during this study.

Note: Species with blank cells were forest species, and not included in the analysis.

Appendix S7. Estimates of community- and species-level state variables for birds.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mean | SD | 2.50% | 25% | 50% | 75% | 97.50% | R-hat |
| beta[1,1] | -0.37 | 0.41 | -1.23 | -0.63 | -0.34 | -0.09 | 0.38 | 1.00 |
| beta[2,1] | -3.17 | 0.87 | -5.04 | -3.71 | -3.14 | -2.58 | -1.54 | 1.00 |
| beta[3,1] | -1.61 | 0.56 | -2.78 | -1.96 | -1.59 | -1.24 | -0.56 | 1.00 |
| beta[4,1] | -3.45 | 1.03 | -5.60 | -4.08 | -3.40 | -2.76 | -1.53 | 1.00 |
| beta[5,1] | -1.09 | 0.59 | -2.18 | -1.50 | -1.12 | -0.70 | 0.11 | 1.00 |
| beta[6,1] | -3.53 | 1.03 | -5.76 | -4.16 | -3.47 | -2.85 | -1.64 | 1.00 |
| beta[7,1] | -1.23 | 0.58 | -2.50 | -1.59 | -1.16 | -0.82 | -0.28 | 1.00 |
| beta[8,1] | -0.92 | 0.47 | -1.86 | -1.23 | -0.91 | -0.61 | 0.00 | 1.00 |
| beta[9,1] | -3.45 | 1.03 | -5.60 | -4.09 | -3.41 | -2.77 | -1.49 | 1.00 |
| beta[10,1] | -3.41 | 1.02 | -5.55 | -4.05 | -3.36 | -2.72 | -1.48 | 1.00 |
| beta[11,1] | -1.13 | 0.49 | -2.15 | -1.44 | -1.12 | -0.81 | -0.18 | 1.00 |
| beta[12,1] | -2.19 | 0.66 | -3.52 | -2.62 | -2.18 | -1.76 | -0.91 | 1.00 |
| beta[1,2] | 1.00 | 0.22 | 0.59 | 0.86 | 0.99 | 1.14 | 1.46 | 1.00 |
| beta[2,2] | 0.89 | 0.38 | 0.03 | 0.69 | 0.91 | 1.10 | 1.64 | 1.00 |
| beta[3,2] | 0.94 | 0.29 | 0.37 | 0.76 | 0.94 | 1.11 | 1.54 | 1.00 |
| beta[4,2] | 0.74 | 0.44 | -0.32 | 0.55 | 0.82 | 1.01 | 1.44 | 1.00 |
| beta[5,2] | 0.67 | 0.34 | -0.08 | 0.46 | 0.71 | 0.91 | 1.22 | 1.00 |
| beta[6,2] | 0.80 | 0.42 | -0.19 | 0.60 | 0.85 | 1.05 | 1.52 | 1.00 |
| beta[7,2] | 1.20 | 0.31 | 0.70 | 0.98 | 1.16 | 1.39 | 1.87 | 1.00 |
| beta[8,2] | 0.89 | 0.25 | 0.38 | 0.74 | 0.90 | 1.06 | 1.39 | 1.00 |
| beta[9,2] | 0.72 | 0.44 | -0.38 | 0.52 | 0.80 | 1.00 | 1.43 | 1.00 |
| beta[10,2] | 0.69 | 0.46 | -0.44 | 0.47 | 0.78 | 0.99 | 1.37 | 1.00 |
| beta[11,2] | 0.93 | 0.26 | 0.42 | 0.77 | 0.93 | 1.10 | 1.47 | 1.00 |
| beta[12,2] | 0.87 | 0.33 | 0.16 | 0.68 | 0.89 | 1.07 | 1.50 | 1.00 |
| mu.beta[1]a | -2.13 | 0.60 | -3.39 | -2.50 | -2.10 | -1.73 | -1.03 | 1.00 |
| mu.beta[2]a | 0.86 | 0.22 | 0.37 | 0.73 | 0.88 | 1.01 | 1.26 | 1.00 |
| mu.r | 0.64 | 0.22 | 0.12 | 0.52 | 0.67 | 0.78 | 0.99 | 1.00 |
| p[1] | 0.73 | 0.03 | 0.67 | 0.71 | 0.73 | 0.75 | 0.79 | 1.00 |
| p[2] | 0.57 | 0.12 | 0.28 | 0.50 | 0.59 | 0.66 | 0.74 | 1.00 |
| p[3] | 0.72 | 0.05 | 0.62 | 0.68 | 0.72 | 0.75 | 0.81 | 1.00 |
| p[4] | 0.55 | 0.15 | 0.18 | 0.48 | 0.59 | 0.66 | 0.75 | 1.00 |
| p[5] | 0.62 | 0.06 | 0.50 | 0.58 | 0.62 | 0.66 | 0.72 | 1.00 |
| p[6] | 0.60 | 0.12 | 0.28 | 0.54 | 0.62 | 0.68 | 0.77 | 1.00 |
| p[7] | 0.68 | 0.04 | 0.60 | 0.65 | 0.68 | 0.70 | 0.75 | 1.00 |
| p[8] | 0.74 | 0.04 | 0.66 | 0.71 | 0.74 | 0.76 | 0.81 | 1.00 |
| p[9] | 0.64 | 0.10 | 0.38 | 0.59 | 0.66 | 0.71 | 0.81 | 1.00 |
| p[10] | 0.68 | 0.09 | 0.47 | 0.63 | 0.68 | 0.73 | 0.86 | 1.00 |
| p[11] | 0.66 | 0.04 | 0.56 | 0.63 | 0.66 | 0.69 | 0.73 | 1.00 |
| p[12] | 0.61 | 0.08 | 0.44 | 0.56 | 0.62 | 0.67 | 0.73 | 1.00 |
| sigma.beta[1] | 1.54 | 0.53 | 0.71 | 1.18 | 1.46 | 1.81 | 2.81 | 1.00 |
| sigma.beta[2] | 0.33 | 0.23 | 0.01 | 0.15 | 0.29 | 0.46 | 0.88 | 1.00 |
| sigma.r | 0.46 | 0.29 | 0.06 | 0.26 | 0.40 | 0.59 | 1.16 | 1.00 |
| sigma.site | 0.12 | 0.09 | 0.00 | 0.05 | 0.10 | 0.17 | 0.32 | 1.00 |

beta[i,1]: intercept of species i in abundance model. beta[i,2]: slope of species i in abundance model. mu.beta[1]: Community-level hyper parameter of slope. mu.beta[2]: Community-level hyper parameter of slope. mu.r: Community-level hyper parameter of r. r[i] is generated from Norm(mu.r,sigma.r2), and r[i] is transformed into detection probability p[i] using logit transformation: p[i] = 1/(1 + exp(-r[i])). p[i]: individual-level detection probability of species i. sigma.beta[i]: SD of normal distribution with mean hyper parameter, mu.beta[i]. sigma.site: SD of normal distribution for random site effects, which is shared by all the species (see text).

Note: We did not use data augmentation technique for birds.

Appendix S8. Species list of encountered plants.

|  |  |  |  |
| --- | --- | --- | --- |
| Scientific name | ID | Groupa | Freqb |
| Scirpus wichurae Boeck. f. wichurae | 1 | 1 | 1 |
| Fraxinus lanuginosa Koidz. f. serrata (Nakai) Murata | 2 | 2 | 11 |
| Pilea pumila (L.) A.Gray | 3 | 2 | 16 |
| Viola phalacrocarpa Maxim. | 4 | 1 | 2 |
| Thalictrum minus L. var. hypoleucum (Siebold et Zucc.) Miq. | 5 | 1 | 222 |
| Viola verecunda A.Gray var. semilunaris Maxim. | 6 | 2 | 2 |
| Petasites japonicus (Siebold et Zucc.) Maxim. subsp. giganteus (G.Nicholson) Kitam. | 7 | 2 | 317 |
| Polygonum sagittatum L. var. sieeboldi (Meisn.) Maxim. | 8 | 2 | 2 |
| Solidago virgaurea L. subsp. asiatica (Nakai ex H.Hara) Kitam. ex H.Hara | 9 | 1 | 15 |
| Lactuca indica L. var. laciniata (Houtt.) H.Hara | 10 | 1 | 27 |
| Digitaria violascens Link | 11 | 1 | 6 |
| Ostrya japonica Sarg. | 12 | 2 | 29 |
| Aria alnifolia (Siebold et Zucc.) Decne. | 13 | 2 | 4 |
| Cirsium vulgare (Savi) Ten. | 14 | 3 | 9 |
| Bidens frondosa L. | 15 | 3 | 1 |
| Iris sanguinea Hornem. | 16 | 1 | 22 |
| Juncus effusus L. var. decipiens Buchen. | 17 | 2 | 20 |
| Physaliastrum echinatum (Yatabe) Makino | 18 | 2 | 2 |
| Cynanchum caudatum (Miq.) Maxim. | 19 | 2 | 176 |
| Persicaria perfoliata (L.) H.Gross | 20 | 1 | 1 |
| Acer pictum Thunb. subsp. dissectum (Wesm.) H.Ohashi | 21 | 2 | 45 |
| Juncus fauriei H.Lév. et Vaniot | 22 | 2 | 1 |
| Maackia amurensis Rupr. et Maxim. | 23 | 2 | 22 |
| Onoclea orientalis (Hook.) Hook. | 24 | 2 | 3 |
| Salix integra Thunb. | 25 | 2 | 3 |
| Persicaria longiseta (Bruijn) Kitag. | 26 | 1 | 48 |
| Clinopodium micranthum (Regel) H.Hara var. micranthum | 27 | 2 | 16 |
| Artemisia keiskeana Miq. | 28 | 1 | 2 |
| Epilobium amurense Hausskn. subsp. cephalostigma (Hausskn.) C.J.Chen, Hoch et P.H.Raven | 29 | 2 | 33 |
| Coniogramme intermedia Hieron. | 30 | 1 | 6 |
| Schizophragma hydrangeoides Siebold et Zucc. | 31 | 2 | 1 |
| Calamagrostis purpurea (Trin.) Trin. subsp. langsdorfii (Link) Tzvelev | 32 | 1 | 20 |
| Circaea cordata Royle | 33 | 2 | 27 |
| Stellaria aquatica (L.) Scop. | 34 | 1 | 8 |
| Carex pallida C.A.Mey. | 35 | 2 | 7 |
| Betula maximowicziana Regel | 36 | 2 | 38 |
| Prunella vulgaris L. subsp. asiatica (Nakai) H.Hara | 37 | 1 | 7 |
| Aralia cordata Thunb. | 38 | 2 | 36 |
| Sanicula chinensis Bunge | 39 | 2 | 8 |
| Viola collina Besser | 40 | 1 | 12 |
| Rubus idaeus L. subsp. melanolasius Focke | 41 | 1 | 555 |
| Urtica platyphylla Wedd. | 42 | 2 | 53 |
| Corydalis fumariifolia Maxim. subsp. azurea Lidén et Zetterlund | 43 | 2 | 2 |
| Primula jesoana Miq. var. pubescens (Takeda) Takeda et H.Hara | 44 | 2 | 15 |
| Elymus pendulinus (Nevski) Tzvelev var. yezoense (Honda) Tzvelev | 45 | 1 | 2 |
| Galium boreale L. var. kamtschaticum (Maxim.) Maxim. ex Herder | 46 | 1 | 13 |
| Aster glehnii F.Schmidt var. glehnii | 47 | 1 | 1 |
| Lycopus uniflorus Michx. | 48 | 2 | 19 |
| Oxalis fontana Bunge | 49 | 2 | 73 |
| Scutellaria pekinensis Maxim. var. ussuriensis (Regel) Hand.-Mazz. | 50 | 2 | 5 |
| Aconitum sachalinense F.Schmidt subsp. yezoense (Nakai) Kadota | 51 | 2 | 29 |
| Sambucus racemosa L. var. miguelii Nakai | 52 | 2 | 60 |
| Agrostis scabra Willd. | 53 | 1 | 1 |
| Salix miyabeana Seemen | 54 | 2 | 19 |
| Rumex obtusifolius L. | 55 | 3 | 2 |
| Cirsium setosum (Willd.) M.Bieb. | 56 | 1 | 105 |
| Salix schwerinii E.L.Wolf | 57 | 2 | 1 |
| Aster microcephalus (Miq.) Franch. et Sav. var. yezoensis (Kitam. et H.Hara) Soejima et Mot.Ito | 58 | 1 | 4 |
| Cirsium pectinellum A.Gray | 59 | 1 | 137 |
| Filipendula Maxim. var. yezoensis Hara | 60 | 2 | 1 |
| Viola acuminata Ledeb. | 61 | 2 | 86 |
| Salix hultenii floderus | 62 | 2 | 45 |
| Stellaria bungeana Fenzl | 63 | 2 | 29 |
| Angelica sachalinensis Maxim. var. sachalinensis | 64 | 1 | 11 |
| Carex uda Maxim. | 65 | 2 | 1 |
| Athyrium brevifrons Nakai ex Tagawa | 66 | 2 | 53 |
| Cirsium heiianum Koidz. | 67 | 1 | 17 |
| Lespedeza bicolor Turcz. | 68 | 1 | 145 |
| Gentiana triflora Pall. var. japonica (Kusn.) H.Hara | 69 | 1 | 1 |
| Setaria viridis (L.) P.Beauv. | 70 | 1 | 9 |
| Rubus phoenicolasius Maxim. | 71 | 1 | 78 |
| Phleum pratense L. | 72 | 3 | 1 |
| Solidago gigantea Aiton subsp. serotina (Kuntze) McNeill | 73 | 3 | 80 |
| Cardiocrinum cordatum (Thunb.) Makino var. glehnii (F.Schmidt) H.Hara | 74 | 2 | 1 |
| Carex rhynchophysa C.A.Mey. | 75 | 2 | 1 |
| Pleurospermum uralense Hoffm. | 76 | 2 | 1 |
| Carex stipata Muhl. ex Willd. | 77 | 2 | 1 |
| Geum aleppicum Jacq. | 78 | 2 | 31 |
| Plantago asiatica L. | 79 | 1 | 94 |
| Heracleum lanatum Michx. var. lanatum | 80 | 2 | 1 |
| Trillium camschatcense Ker Gawl. | 81 | 1 | 48 |
| Galium pseudoasprellum Makino | 82 | 2 | 15 |
| Tilia maximowicziana Shiras. | 83 | 2 | 4 |
| Salix cardiophylla Trautv. et C.A.Mey. var. urbaniana (Seemen) Kudô | 84 | 2 | 2 |
| Aquilegia buergeriana var. oxysepala | 85 | 1 | 7 |
| Platanthera sachalinensis F.Schmidt | 86 | 2 | 3 |
| Cerasus sargentii (Rehder) H.Ohba | 87 | 2 | 5 |
| Moehringia lateriflora (L.) Fenzl | 88 | 1 | 33 |
| Artemisia montana (Nakai) Pamp. | 89 | 1 | 541 |
| Lysimachia clethroides Duby | 90 | 1 | 179 |
| Galium trifloriforme Kom. | 91 | 2 | 2 |
| Dryopteris crassirhizoma Nakai | 92 | 2 | 62 |
| Hypericum erectum Thunb. | 93 | 1 | 47 |
| Patrinia villosa (Thunb.) Juss. | 94 | 1 | 207 |
| Artemisia japonica Thunb. | 95 | 1 | 2 |
| Cynoglossum asperrimum Nakai var. tosaense (Nakai) H.Hara | 96 | 1 | 1 |
| Salix udensis Trautv. et C.A.Mey. | 97 | 2 | 2 |
| Cerastium glomeratum Thuill. | 98 | 3 | 2 |
| Ajuga ciliata Bunge var. villosior A.Gray ex Nakai | 99 | 2 | 15 |
| Carex dispalata Boott | 100 | 2 | 2 |
| Quercus dentata Thunb. | 101 | 2 | 1 |
| Cercidiphyllum japonicum Siebold et Zucc. ex Hoffm. et Schult. | 102 | 2 | 3 |
| Elymus tsukushiensis Honda var. transiens (Hack.) Osada | 103 | 1 | 1 |
| Acer ginnala Maxim. var. aidzuense (Franch.) K.Ogata | 104 | 2 | 2 |
| Humulus lupulus L. var. cordifolius (Miq.) Maxim. ex Franch. et Sav. | 105 | 2 | 3 |
| Tripora divaricata (Maxim.) P.D.Cantino | 106 | 1 | 4 |
| Agastache rugosa (Fisch. et C.A.Mey.) Kuntze | 107 | 1 | 11 |
| Carex incisa Boott | 108 | 2 | 2 |
| Viburnum opulus L. var. sargentii (Koehne) Takeda | 109 | 2 | 2 |
| Potentilla fragarioides L. var. major Maxim. | 110 | 1 | 20 |
| Magnolia kobus DC. var. borealis Sarg. | 111 | 2 | 4 |
| Bromus remotiflorus (Steud.) Ohwi | 112 | 1 | 2 |
| Impatiens noli-tangere L. | 113 | 2 | 68 |
| Phellodendron amurense Rupr. | 114 | 2 | 70 |
| Allium victorialis L. subsp. platyphyllum Hultén | 115 | 2 | 4 |
| Setaria pumila (Poir.) Roem. et Schult. | 116 | 1 | 5 |
| Agrimonia pilosa Ledeb. var. viscidula (Bunge) Kom. | 117 | 1 | 7 |
| Juncus tenuis Willd. | 118 | 1 | 14 |
| Boehmeria gracilis C.H.Wright | 119 | 2 | 11 |
| Matteuccia struthiopteris (L.) Tod. | 120 | 2 | 3 |
| Chelidonium majus L. subsp. asiaticum H.Hara | 121 | 1 | 13 |
| Vicia cracca L. | 122 | 1 | 11 |
| Phalaris arundinacea L. | 123 | 1 | 4 |
| Lysimachia vulgaris L. subsp. davurica (Ledeb.) Tatew. | 124 | 1 | 34 |
| Adiantum pedatum L. | 125 | 2 | 5 |
| Pseudostellaria sylvatica (Maxim.) Pax | 126 | 2 | 2 |
| Rubus crataegifolius Bunge | 127 | 1 | 326 |
| Luzula arcuata (Wahlenb.) Sw. subsp. unalaschkensis (Buchenau) Hultén | 128 | 1 | 1 |
| Primula japonica A.Gray | 129 | 2 | 5 |
| Galium odoratum (L.) Scop. | 130 | 2 | 1 |
| Paris verticillata M.Bieb. | 131 | 2 | 2 |
| Clinopodium chinense (Benth.) Kuntze subsp. grandiflorum (Maxim.) H.Hara | 132 | 1 | 42 |
| Galium japonicum Makino | 133 | 2 | 1 |
| Lilium medeoloides A.Gray | 134 | 1 | 11 |
| Scirpus sylvaticus L. var. maximowiczii Regel | 135 | 2 | 1 |
| Rubus mesogaeus Focke | 136 | 1 | 11 |
| Eleutherococcus divaricatus (Siebold et Zucc.) S.Y.Hu | 137 | 2 | 16 |
| Alnus hirsuta (Spach) Turcz. ex Rupr. var. hirsuta | 138 | 2 | 1 |
| Geranium thunbergii Siebold ex Lindl. et Paxton | 139 | 1 | 6 |
| Picris hieracioides L. subsp. japonica (Thunb.) Krylov | 140 | 1 | 68 |
| Onoclea sensibilis L. var. interrupta Maxim. | 141 | 2 | 6 |
| Oreorchis patens (Lindl.) Lindl. | 142 | 2 | 1 |
| Hypericum laxum (Blume) Koidz. | 143 | 1 | 3 |
| Phtheirospermum japonicum (Thunb.) Kanitz | 144 | 1 | 3 |
| Muhlenbergia curviaristata (Ohwi) Ohwi var. curviaristata | 145 | 1 | 22 |
| Agrostis gigantea Roth | 146 | 3 | 30 |
| Urtica laetevirens Maxim. | 147 | 2 | 1 |
| Ulmus davidiana Planch. var. japonica (Rehder) Nakai f. suberosa (Turcz.) Nakai | 148 | 2 | 1 |
| Cardamine leucantha (Tausch) O.E.Schulz | 149 | 2 | 58 |
| Viola hirtipes S.Moore | 150 | 1 | 13 |
| Carex pilosa Scop. | 151 | 2 | 9 |
| Cimicifuga simplex (DC.) Wormsk. ex Turcz. | 152 | 1 | 46 |
| Actinidia arguta (Siebold et Zucc.) Planch. ex Miq. | 153 | 2 | 180 |
| Carpinus cordata Blume | 154 | 2 | 6 |
| Padus ssiori (F.Schmidt) C.K.Schneid. | 155 | 2 | 2 |
| Tilia japonica (Miq.) Simonk. | 156 | 2 | 2 |
| Stellaria fenzlii Regel | 157 | 2 | 4 |
| Betula platyphylla Sukaczev var. japonica (Miq.) H.Hara | 158 | 2 | 194 |
| Dryopteris expansa (C.Presl) Fraser-Jenk. et Jermy | 159 | 2 | 9 |
| Aster scaber Thunb. | 160 | 1 | 1 |
| Trifolium repens L. | 161 | 3 | 66 |
| Lycopus lucidus Turcz. ex Benth. | 162 | 2 | 10 |
| Equisetum arvense L. | 163 | 1 | 42 |
| Carex sp. | 164 | 2 | 1 |
| Convallaria majalis L. var. manshurica Kom. | 165 | 1 | 11 |
| Tiarella polyphylla D.Don | 166 | 2 | 1 |
| Pinus strobus L. | 167 | 3 | 5 |
| Viola mandshurica W.Becker | 168 | 1 | 1 |
| Taraxacum officinale Weber ex F.H.Wigg. | 169 | 3 | 82 |
| Cirsium arvense (L.) Scop. | 170 | 3 | 1 |
| Achillea millefolium L. | 171 | 3 | 1 |
| Cerastium arvense L. subsp. arvense | 172 | 3 | 2 |
| Hemerocallis dumortieri C.Morren var. esculenta (Koidz.) Kitam. ex M.Matsuoka et M.Hotta | 173 | 1 | 2 |
| Chamaele decumbens (Thunb.) Makino | 174 | 2 | 8 |
| Leibnitzia anandria (L.) Turcz. | 175 | 1 | 1 |
| Osmunda japonica Thunb. | 176 | 1 | 4 |
| Fallopia convolvulus (L.) A.Löve | 177 | 3 | 12 |
| Carex siderosticta Hance | 178 | 2 | 175 |
| Hosta sieboldii (Paxton) J.W.Ingram var. rectifolia (Nakai) H.Hara | 179 | 2 | 2 |
| Viola grypoceras A.Gray var. grypoceras | 180 | 1 | 81 |
| Persicaria nepalensis (Meisn.) H.Gross | 181 | 2 | 70 |
| Circaea erubescens Franch. et Sav. | 182 | 2 | 6 |
| Aralia elata (Miq.) Seem. | 183 | 2 | 238 |
| Disporum smilacinum A.Gray | 184 | 2 | 18 |
| Cirsium kamtschaticum Ledeb. | 185 | 1 | 27 |
| Chrysosplenium kamtschaticum Fisch. ex Ser. | 186 | 2 | 3 |
| Corydalis kushiroensis | 187 | 2 | 2 |
| Schisandra chinensis (Turcz.) Baill. | 188 | 2 | 208 |
| Pinus koraiensis Siebold et Zucc. | 189 | 3 | 66 |
| Toxicodendron radicans (L.) Kuntze subsp. orientale (Greene) Gillis | 190 | 2 | 60 |
| Viola verecunda A.Gray | 191 | 2 | 1 |
| Trientalis europaea L. | 192 | 2 | 31 |
| Commelina communis L. | 193 | 1 | 1 |
| Adenophora triphylla (Thunb.) A.DC. subsp. aperticampanulata Kitam. | 194 | 1 | 1 |
| Impatiens textorii Miq. | 195 | 2 | 1 |
| Hydrangea petiolaris Siebold et Zucc. | 196 | 2 | 22 |
| Celastrus orbiculatus Thunb. var. orbiculatus | 197 | 2 | 135 |
| Fallopia dumetorum (L.) Holub | 198 | 3 | 5 |
| Teucrium viscidum Blume var. miquelianum (Maxim.) H.Hara | 199 | 1 | 324 |
| Abies sachalinensis (F.Schmidt) Mast. | 200 | 2 | 1 |
| Carex middendorffii Fr. Schmidt | 201 | 1 | 1 |
| Hypericum ascyron L. subsp. ascyron var. ascyron | 202 | 1 | 106 |
| Astilbe odontophylla Miq. | 203 | 1 | 6 |
| Poa pratensis L. | 204 | 3 | 18 |
| Stellaria longifolia Muhl. ex Willd. | 205 | 1 | 14 |
| Elsholtzia ciliata (Thunb.) Hyl. | 206 | 1 | 65 |
| Rubus parvifolius L. | 207 | 1 | 2 |
| Vicia unijuga A.Braun | 208 | 1 | 4 |
| Silene baccifera (L.) Roth var. japonica (Miq.) H.Ohashi et H.Nakai | 209 | 2 | 3 |
| Euonymus alatus (Thunb.) Siebold f. alatus | 210 | 2 | 3 |
| Desmodium podocarpum DC. subsp. oxyphyllum (DC.) H.Ohashi | 211 | 2 | 7 |
| Salix gracilistyla Miq. | 212 | 2 | 1 |
| Spiranthes sinensis (Pers.) Ames subsp. australis (R.Br.) Kitam., excl. basion. | 213 | 1 | 1 |
| Lonicera chrysantha Turcz. ex Ledeb. | 214 | 2 | 6 |
| Calamagrostis brachytricha Steud. | 215 | 2 | 1 |
| Adenocaulon himalaicum Edgew. | 216 | 2 | 3 |
| Stellaria uliginosa Murray var. undulata (Thunb.) Fenzl | 217 | 2 | 9 |
| Hydrangea paniculata Siebold | 218 | 2 | 32 |
| Veratrum album L. subsp. oxysepalum (Turcz.) Hultén | 219 | 2 | 1 |
| Phryma leptostachya L. subsp. asiatica (H.Hara) Kitam. | 220 | 2 | 5 |
| Styrax obassia Siebold et Zucc. | 221 | 2 | 2 |
| Deparia orientalis (Z.R.Wang et J.J.Chien) Nakaike | 222 | 2 | 6 |
| Syringa reticulata (Blume) H.Hara | 223 | 2 | 23 |
| Mentha canadensis L. var. piperascens (Malinv. ex Holmes) H.Hara | 224 | 1 | 1 |
| Persicaria posumbu (Buch.-Ham. ex D.Don) H.Gross | 225 | 2 | 17 |
| Stipa pekinensis Hance | 226 | 1 | 2 |
| Potentilla sp. | 227 | 1 | 3 |
| Kalopanax septemlobus (Thunb.) Koidz. | 228 | 2 | 20 |
| Ulmus davidiana Planch. var. japonica (Rehder) Nakai | 229 | 2 | 30 |
| Senecio cannabifolius Less. | 230 | 1 | 22 |
| Carex lanceolata Boott | 231 | 2 | 516 |
| Carex spp. | 232 | 2 | 571 |
| Anemone debilis Fisch. ex Turcz. | 233 | 1 | 4 |
| Lastrea thelypteris (L.) Bory | 234 | 2 | 6 |
| Erigeron annuus (L.) Pers. | 235 | 3 | 91 |
| Rumex acetosella L. subsp. pyrenaicus (Pourret ex Lapeyr.) Akeroyd | 236 | 3 | 1 |
| Scutellaria dependens Maxim. | 237 | 2 | 2 |
| Calamagrostis hakonensis Franch. et Sav. | 238 | 1 | 1 |
| Conyza canadensis (L.) Cronquist | 239 | 3 | 3 |
| Eupatorium makinoi T.Kawahara et Yahara | 240 | 1 | 327 |
| Artemisia koidzumii Nakai | 241 | 1 | 1 |
| Vicia japonica A.Gray | 242 | 1 | 1 |
| Viola selkirkii Pursh ex Goldie f. variegata (Nakai) F.Maek. | 243 | 2 | 6 |
| Chloranthus serratus (Thunb.) Roem. et Schult. | 244 | 2 | 46 |
| Pachysandra terminalis Siebold et Zucc. | 245 | 2 | 367 |
| Gentiana zollingeri Fawc. | 246 | 1 | 1 |
| Athyrium yokoscense (Franch. et Sav.) H.Christ | 247 | 2 | 16 |
| Erigeron strigosus Muhl. ex Willd. | 248 | 3 | 1 |
| Disporum sessile D.Don ex Schult. et Schult.f. | 249 | 2 | 11 |
| Magnolia obovata Thunb. | 250 | 2 | 7 |
| Spiraea salicifolia L. | 251 | 1 | 64 |
| Urtica angustifolia Fisch. ex Hornem. var. angustifolia | 252 | 2 | 1 |
| Pterygocalyx volubilis Maxim. | 253 | 2 | 51 |
| Galium trifidum L. subsp. columbianum (Rydb.) Hultén | 254 | 2 | 176 |
| Maianthemum dilatatum (A.W.Wood) A.Nelson et J.F.Macbr. | 255 | 2 | 15 |
| Persicaria senticosa (Meisn.) H.Gross | 256 | 1 | 10 |
| Euonymus sieboldianus Blume | 257 | 2 | 9 |
| Lycopodium dendroideum Michx. | 258 | 2 | 1 |
| Cornus controversa Hemsl. ex Prain | 259 | 2 | 50 |
| Circaea mollis Siebold et Zucc. | 260 | 2 | 2 |
| Quercus crispula Blume | 261 | 2 | 14 |
| Stegnogramma pozoi (Lag.) K.Iwats. subsp. mollissima (Fisch. ex Kunze) K.Iwats. | 262 | 2 | 1 |
| Persicaria thunbergii (Siebold et Zucc.) H.Gross | 263 | 2 | 3 |
| Mimulus nepalensis Benth. | 264 | 2 | 3 |
| Polygonum aviculare L. subsp. aviculare | 265 | 1 | 1 |
| Cryptotaenia canadensis (L.) DC. subsp. japonica (Hassk.) Hand.-Mazz. | 266 | 2 | 11 |
| Staphylea bumalda DC. | 267 | 2 | 21 |
| Potentilla freyniana Bornm. | 268 | 1 | 235 |
| Potentilla cryptotaeniae Maxim. | 269 | 1 | 145 |
| Stellaria neglecta Weihe | 270 | 1 | 2 |
| Parasenecio kamtschaticus (Maxim.) Kadota | 271 | 2 | 13 |
| Cerastium fontanum Baumg. subsp. vulgare (Hartm.) Greuter et Burdet var. angustifolium (Franch.) H.Hara | 272 | 2 | 53 |
| Sasa nipponica (Makino) Makino et Shibata | 273 | 2 | 866 |
| Juncus beringensis Buchenau | 274 | 2 | 3 |
| Viburnum wrightii Miq. | 275 | 2 | 1 |
| Cerasus maximowiczii (Rupr.) Kom. | 276 | 2 | 7 |
| Viola selkirkii Pursh ex Goldie | 277 | 2 | 1 |
| Clinopodium micranthum (Regel) H.Hara var. sachalinense (F.Schmidt) T.Yamaz. et Murata | 278 | 2 | 103 |
| Actinidia kolomikta (Maxim. et Rupr.) Maxim. | 279 | 2 | 95 |
| Carpesium triste Maxim. | 280 | 1 | 23 |
| Thelypteris phegopteris (L.) Sloss. ex Rydb. | 281 | 2 | 7 |
| Laportea bulbifera (Siebold et Zucc.) Wedd. | 282 | 2 | 113 |
| Setaria viridis (L.) P.Beauv. f. misera Honda | 283 | 1 | 1 |
| Trifolium pratense L. | 284 | 3 | 5 |
| Sigesbeckia pubescens (Makino) Makino | 285 | 1 | 1 |
| Oenothera biennis L. | 286 | 3 | 80 |
| Betula davurica Pall. | 287 | 2 | 8 |
| Galium spurium L. var. echinospermon (Wallr.) Hayek | 288 | 1 | 1 |
| Crepidiastrum denticulatum (Houtt.) J.H.Pak et Kawano | 289 | 1 | 4 |
| Fraxinus mandshurica Rupr. | 290 | 2 | 163 |
| Chamerion angustifolium (L.) Holub | 291 | 1 | 1 |
| Torilis japonica (Houtt.) DC. | 292 | 1 | 19 |
| Osmorhiza aristata (Thunb.) Rydb. | 293 | 2 | 1 |
| Amphicarpaea bracteata (L.) Fernald subsp. edgeworthii (Benth.) H.Ohashi var. japonica (Oliv.) H.Ohashi | 294 | 1 | 236 |
| Fimbristylis subbispicata Nees et Meyen | 295 | 2 | 1 |
| Toxicodendron trichocarpum (Miq.) Kuntze | 296 | 2 | 4 |
| Morus australis Poir. | 297 | 2 | 89 |
| Circaea x sterilis Boufford | 298 | 2 | 25 |
| Osmunda cinnamomea L. subsp. asiatica (Fernald) Fraser-Jenk. | 299 | 2 | 4 |
| Lactuca raddeana Maxim. var. elata (Hemsl.) Kitam. | 300 | 1 | 21 |
| Agrostis clavata Trin. subsp. clavata | 301 | 1 | 8 |
| Isodon inflexus (Thunb.) Kudô | 302 | 1 | 8 |
| Anaphalis margaritacea (L.) Benth. et Hook.f. subsp. margaritacea | 303 | 1 | 31 |
| Aruncus dioicus (Walter) Fernald var. kamtschaticus (Maxim.) H.Hara | 304 | 1 | 85 |
| Vitis coignetiae Pulliat ex Planch. | 305 | 2 | 54 |
| Acer amoenum Carrière var. matsumurae (Koidz.) K.Ogata | 306 | 2 | 26 |
| Smilacina japonica A.Gray | 307 | 2 | 25 |
| Eupatorium glehnii F.Schmidt ex Trautv. | 308 | 1 | 5 |
| Galium trachyspermum A.Gray | 309 | 2 | 24 |
| Parasenecio hastatus (L.) H.Koyama subsp. orientalis (Kitam.) H.Koyama | 310 | 2 | 27 |
| Actaea asiatica H.Hara | 311 | 2 | 1 |
| Leontice robusta (Maxim.) Diels | 312 | 2 | 8 |
| Adoxa moschatellina L. | 313 | 2 | 2 |
| Pteridium aquilinum (L.) Kuhn | 314 | 1 | 59 |

aGroup identity of each species: early-successional species (1); forest species (2); exotic species (3). bTotal frequency of each species.

Note: We could not discriminate three Carex species (Carex aphanolepis Franch. et Sav., Carex maximowiczii Miq., and Carex japonica Thunb.) in the field, and we combined them as a single species (Carex spp.). We used scientific names following “YList” http://bean.bio.chiba-u.jp/bgplants/index.html.

Appendix S9. Estimates of community-, functional-group and species-level state variables for plants.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Mean | SD | 2.50% | 25% | 50% | 75% | 97.50% | R-hat |
| R | 718.88 | 152.52 | 503.00 | 608.00 | 689.00 | 802.00 | 1095.00 | 1.00 |
| beta[1,1] | -8.11 | 1.33 | -11.07 | -8.92 | -7.99 | -7.17 | -5.88 | 1.00 |
| beta[2,1] | -5.01 | 0.69 | -6.37 | -5.46 | -5.01 | -4.56 | -3.67 | 1.00 |
| beta[3,1] | -4.47 | 0.66 | -5.73 | -4.91 | -4.46 | -4.04 | -3.16 | 1.00 |
| beta[4,1] | -7.08 | 0.99 | -9.17 | -7.69 | -7.03 | -6.40 | -5.30 | 1.00 |
| beta[5,1] | -1.16 | 0.46 | -2.04 | -1.47 | -1.17 | -0.86 | -0.21 | 1.00 |
| beta[6,1] | -6.65 | 1.01 | -8.79 | -7.29 | -6.60 | -5.97 | -4.79 | 1.00 |
| beta[7,1] | -1.67 | 0.57 | -2.87 | -2.04 | -1.64 | -1.27 | -0.63 | 1.00 |
| beta[8,1] | -6.83 | 1.04 | -9.04 | -7.48 | -6.79 | -6.13 | -4.95 | 1.00 |
| beta[9,1] | -4.43 | 0.57 | -5.54 | -4.81 | -4.43 | -4.05 | -3.30 | 1.00 |
| beta[10,1] | -4.28 | 0.58 | -5.48 | -4.66 | -4.26 | -3.90 | -3.22 | 1.00 |
| beta[11,1] | -6.04 | 0.76 | -7.64 | -6.52 | -6.01 | -5.53 | -4.65 | 1.00 |
| beta[12,1] | -5.06 | 0.76 | -6.70 | -5.54 | -5.02 | -4.53 | -3.73 | 1.00 |
| beta[13,1] | -5.79 | 0.82 | -7.43 | -6.32 | -5.77 | -5.23 | -4.20 | 1.00 |
| beta[14,1] | -5.79 | 0.76 | -7.34 | -6.28 | -5.76 | -5.27 | -4.36 | 1.00 |
| beta[15,1] | -8.43 | 1.47 | -11.79 | -9.30 | -8.29 | -7.41 | -5.99 | 1.00 |
| beta[16,1] | -4.06 | 0.55 | -5.11 | -4.43 | -4.06 | -3.70 | -2.95 | 1.00 |
| beta[17,1] | -4.19 | 0.62 | -5.44 | -4.60 | -4.18 | -3.78 | -3.01 | 1.00 |
| beta[18,1] | -7.03 | 1.05 | -9.26 | -7.68 | -6.95 | -6.32 | -5.10 | 1.00 |
| beta[19,1] | -1.13 | 0.52 | -2.12 | -1.49 | -1.14 | -0.80 | -0.07 | 1.00 |
| beta[20,1] | -7.94 | 1.30 | -10.88 | -8.71 | -7.80 | -7.04 | -5.75 | 1.00 |
| beta[21,1] | -3.38 | 0.57 | -4.51 | -3.75 | -3.37 | -2.99 | -2.28 | 1.00 |
| beta[22,1] | -7.97 | 1.33 | -10.91 | -8.78 | -7.87 | -7.04 | -5.70 | 1.00 |
| beta[23,1] | -4.14 | 0.62 | -5.35 | -4.54 | -4.14 | -3.73 | -2.93 | 1.00 |
| beta[24,1] | -6.73 | 0.96 | -8.74 | -7.34 | -6.68 | -6.06 | -5.01 | 1.00 |
| beta[25,1] | -6.38 | 0.92 | -8.28 | -6.97 | -6.34 | -5.76 | -4.66 | 1.00 |
| beta[26,1] | -4.09 | 0.58 | -5.29 | -4.47 | -4.06 | -3.69 | -3.01 | 1.00 |
| beta[27,1] | -5.25 | 0.73 | -6.74 | -5.72 | -5.24 | -4.75 | -3.89 | 1.00 |
| beta[28,1] | -7.25 | 1.01 | -9.39 | -7.89 | -7.19 | -6.54 | -5.43 | 1.00 |
| beta[29,1] | -3.55 | 0.58 | -4.68 | -3.93 | -3.54 | -3.17 | -2.40 | 1.00 |
| beta[30,1] | -5.95 | 0.74 | -7.45 | -6.44 | -5.93 | -5.44 | -4.50 | 1.00 |
| beta[31,1] | -7.60 | 1.28 | -10.44 | -8.37 | -7.51 | -6.68 | -5.43 | 1.00 |
| beta[32,1] | -4.22 | 0.55 | -5.30 | -4.59 | -4.23 | -3.86 | -3.12 | 1.00 |
| beta[33,1] | -6.01 | 0.86 | -7.86 | -6.55 | -5.96 | -5.41 | -4.47 | 1.00 |
| beta[34,1] | -5.49 | 0.67 | -6.83 | -5.92 | -5.47 | -5.03 | -4.22 | 1.00 |
| beta[35,1] | -5.40 | 0.74 | -6.88 | -5.89 | -5.39 | -4.90 | -4.00 | 1.00 |
| beta[36,1] | -4.77 | 0.70 | -6.25 | -5.22 | -4.74 | -4.28 | -3.50 | 1.00 |
| beta[37,1] | -5.40 | 0.67 | -6.73 | -5.84 | -5.39 | -4.94 | -4.11 | 1.00 |
| beta[38,1] | -3.37 | 0.57 | -4.49 | -3.75 | -3.38 | -3.00 | -2.26 | 1.00 |
| beta[39,1] | -5.18 | 0.72 | -6.61 | -5.65 | -5.18 | -4.70 | -3.77 | 1.00 |
| beta[40,1] | -5.48 | 0.69 | -6.89 | -5.92 | -5.46 | -5.02 | -4.20 | 1.00 |
| beta[41,1] | 0.21 | 0.47 | -0.74 | -0.08 | 0.22 | 0.52 | 1.12 | 1.00 |
| beta[42,1] | -3.89 | 0.62 | -5.15 | -4.28 | -3.86 | -3.48 | -2.72 | 1.00 |
| beta[43,1] | -6.57 | 1.00 | -8.70 | -7.18 | -6.52 | -5.88 | -4.74 | 1.00 |
| beta[44,1] | -5.63 | 0.78 | -7.22 | -6.13 | -5.59 | -5.10 | -4.17 | 1.00 |
| beta[45,1] | -7.14 | 1.00 | -9.25 | -7.77 | -7.08 | -6.43 | -5.36 | 1.00 |
| beta[46,1] | -5.25 | 0.67 | -6.59 | -5.69 | -5.25 | -4.80 | -3.93 | 1.00 |
| beta[47,1] | -8.12 | 1.35 | -11.16 | -8.89 | -7.98 | -7.19 | -5.86 | 1.00 |
| beta[48,1] | -5.00 | 0.72 | -6.48 | -5.46 | -4.98 | -4.51 | -3.67 | 1.00 |
| beta[49,1] | -3.00 | 0.57 | -4.14 | -3.37 | -2.99 | -2.62 | -1.92 | 1.00 |
| beta[50,1] | -5.66 | 0.78 | -7.21 | -6.15 | -5.64 | -5.14 | -4.17 | 1.00 |
| beta[51,1] | -3.69 | 0.59 | -4.85 | -4.07 | -3.69 | -3.30 | -2.56 | 1.00 |
| beta[52,1] | -2.85 | 0.56 | -3.93 | -3.22 | -2.85 | -2.48 | -1.76 | 1.00 |
| beta[53,1] | -8.12 | 1.32 | -11.08 | -8.88 | -8.00 | -7.19 | -5.90 | 1.00 |
| beta[54,1] | -4.40 | 0.65 | -5.79 | -4.83 | -4.38 | -3.96 | -3.21 | 1.00 |
| beta[55,1] | -7.33 | 1.10 | -9.70 | -8.01 | -7.26 | -6.57 | -5.35 | 1.00 |
| beta[56,1] | -2.13 | 0.48 | -3.04 | -2.45 | -2.14 | -1.81 | -1.17 | 1.00 |
| beta[57,1] | -7.78 | 1.32 | -10.67 | -8.58 | -7.67 | -6.86 | -5.58 | 1.00 |
| beta[58,1] | -6.21 | 0.78 | -7.86 | -6.71 | -6.18 | -5.68 | -4.75 | 1.00 |
| beta[59,1] | -1.80 | 0.46 | -2.70 | -2.10 | -1.80 | -1.49 | -0.87 | 1.00 |
| beta[60,1] | -7.81 | 1.33 | -10.78 | -8.60 | -7.68 | -6.88 | -5.56 | 1.00 |
| beta[61,1] | -2.69 | 0.54 | -3.75 | -3.05 | -2.69 | -2.34 | -1.61 | 1.00 |
| beta[62,1] | -3.32 | 0.58 | -4.45 | -3.70 | -3.31 | -2.93 | -2.18 | 1.00 |
| beta[63,1] | -3.65 | 0.62 | -4.83 | -4.07 | -3.66 | -3.25 | -2.39 | 1.00 |
| beta[64,1] | -4.90 | 0.61 | -6.09 | -5.31 | -4.90 | -4.49 | -3.72 | 1.00 |
| beta[65,1] | -7.76 | 1.31 | -10.62 | -8.55 | -7.64 | -6.86 | -5.49 | 1.00 |
| beta[66,1] | -2.84 | 0.56 | -3.93 | -3.22 | -2.85 | -2.47 | -1.70 | 1.00 |
| beta[67,1] | -4.81 | 0.65 | -6.07 | -5.24 | -4.81 | -4.38 | -3.55 | 1.00 |
| beta[68,1] | -2.08 | 0.47 | -3.00 | -2.39 | -2.08 | -1.76 | -1.17 | 1.00 |
| beta[69,1] | -8.07 | 1.31 | -10.97 | -8.86 | -7.94 | -7.15 | -5.86 | 1.00 |
| beta[70,1] | -5.67 | 0.70 | -7.11 | -6.13 | -5.65 | -5.19 | -4.36 | 1.00 |
| beta[71,1] | -3.07 | 0.50 | -4.07 | -3.40 | -3.07 | -2.74 | -2.13 | 1.00 |
| beta[72,1] | -8.26 | 1.48 | -11.67 | -9.10 | -8.09 | -7.25 | -5.86 | 1.00 |
| beta[73,1] | -3.40 | 0.58 | -4.59 | -3.78 | -3.39 | -3.01 | -2.32 | 1.00 |
| beta[74,1] | -7.52 | 1.29 | -10.46 | -8.29 | -7.39 | -6.64 | -5.32 | 1.00 |
| beta[75,1] | -7.97 | 1.33 | -10.93 | -8.77 | -7.85 | -7.04 | -5.66 | 1.00 |
| beta[76,1] | -7.57 | 1.31 | -10.49 | -8.34 | -7.45 | -6.66 | -5.33 | 1.00 |
| beta[77,1] | -7.99 | 1.37 | -11.03 | -8.81 | -7.87 | -7.03 | -5.66 | 1.00 |
| beta[78,1] | -3.47 | 0.58 | -4.59 | -3.85 | -3.48 | -3.09 | -2.31 | 1.00 |
| beta[79,1] | -2.60 | 0.49 | -3.58 | -2.92 | -2.60 | -2.27 | -1.62 | 1.00 |
| beta[80,1] | -7.58 | 1.31 | -10.49 | -8.35 | -7.47 | -6.66 | -5.38 | 1.00 |
| beta[81,1] | -3.49 | 0.52 | -4.51 | -3.84 | -3.50 | -3.15 | -2.45 | 1.00 |
| beta[82,1] | -4.54 | 0.65 | -5.82 | -4.96 | -4.53 | -4.11 | -3.28 | 1.00 |
| beta[83,1] | -6.98 | 1.01 | -9.13 | -7.62 | -6.92 | -6.28 | -5.18 | 1.00 |
| beta[84,1] | -7.36 | 1.10 | -9.74 | -8.06 | -7.29 | -6.57 | -5.44 | 1.00 |
| beta[85,1] | -5.71 | 0.71 | -7.17 | -6.18 | -5.69 | -5.22 | -4.40 | 1.00 |
| beta[86,1] | -6.50 | 0.92 | -8.40 | -7.10 | -6.46 | -5.86 | -4.81 | 1.00 |
| beta[87,1] | -5.83 | 0.80 | -7.44 | -6.34 | -5.81 | -5.27 | -4.32 | 1.00 |
| beta[88,1] | -4.18 | 0.57 | -5.35 | -4.56 | -4.17 | -3.79 | -3.09 | 1.00 |
| beta[89,1] | 0.89 | 0.47 | -0.01 | 0.57 | 0.88 | 1.20 | 1.85 | 1.00 |
| beta[90,1] | -2.03 | 0.47 | -2.93 | -2.35 | -2.03 | -1.71 | -1.09 | 1.00 |
| beta[91,1] | -6.64 | 1.01 | -8.77 | -7.27 | -6.58 | -5.95 | -4.78 | 1.00 |
| beta[92,1] | -2.81 | 0.55 | -3.90 | -3.17 | -2.81 | -2.46 | -1.75 | 1.00 |
| beta[93,1] | -3.66 | 0.55 | -4.78 | -4.01 | -3.65 | -3.29 | -2.61 | 1.00 |
| beta[94,1] | -2.63 | 0.53 | -3.72 | -2.97 | -2.60 | -2.26 | -1.64 | 1.00 |
| beta[95,1] | -7.04 | 1.00 | -9.19 | -7.66 | -6.96 | -6.35 | -5.26 | 1.00 |
| beta[96,1] | -7.99 | 1.32 | -10.92 | -8.77 | -7.83 | -7.07 | -5.82 | 1.00 |
| beta[97,1] | -6.87 | 1.02 | -9.05 | -7.52 | -6.80 | -6.16 | -5.01 | 1.00 |
| beta[98,1] | -7.38 | 1.12 | -9.75 | -8.10 | -7.31 | -6.61 | -5.40 | 1.00 |
| beta[99,1] | -5.30 | 0.74 | -6.86 | -5.77 | -5.27 | -4.79 | -3.94 | 1.00 |
| beta[100,1] | -6.93 | 1.01 | -9.07 | -7.57 | -6.88 | -6.23 | -5.05 | 1.00 |
| beta[101,1] | -7.79 | 1.31 | -10.68 | -8.59 | -7.67 | -6.89 | -5.51 | 1.00 |
| beta[102,1] | -6.18 | 0.89 | -8.00 | -6.75 | -6.15 | -5.57 | -4.50 | 1.00 |
| beta[103,1] | -8.09 | 1.32 | -11.04 | -8.86 | -7.97 | -7.16 | -5.84 | 1.00 |
| beta[104,1] | -7.11 | 1.07 | -9.32 | -7.78 | -7.05 | -6.37 | -5.20 | 1.00 |
| beta[105,1] | -6.32 | 0.91 | -8.20 | -6.89 | -6.28 | -5.70 | -4.65 | 1.00 |
| beta[106,1] | -6.75 | 0.88 | -8.56 | -7.32 | -6.71 | -6.14 | -5.12 | 1.00 |
| beta[107,1] | -5.04 | 0.63 | -6.26 | -5.46 | -5.03 | -4.62 | -3.81 | 1.00 |
| beta[108,1] | -6.85 | 1.02 | -9.04 | -7.49 | -6.79 | -6.13 | -5.05 | 1.00 |
| beta[109,1] | -7.02 | 1.07 | -9.32 | -7.68 | -6.96 | -6.29 | -5.10 | 1.00 |
| beta[110,1] | -4.74 | 0.60 | -5.93 | -5.14 | -4.75 | -4.35 | -3.57 | 1.00 |
| beta[111,1] | -6.20 | 0.87 | -8.03 | -6.76 | -6.15 | -5.60 | -4.58 | 1.00 |
| beta[112,1] | -7.16 | 0.99 | -9.28 | -7.78 | -7.10 | -6.46 | -5.38 | 1.00 |
| beta[113,1] | -2.52 | 0.55 | -3.57 | -2.89 | -2.52 | -2.16 | -1.43 | 1.00 |
| beta[114,1] | -2.79 | 0.56 | -3.87 | -3.15 | -2.79 | -2.42 | -1.66 | 1.00 |
| beta[115,1] | -6.50 | 0.93 | -8.43 | -7.11 | -6.46 | -5.86 | -4.75 | 1.00 |
| beta[116,1] | -5.92 | 0.74 | -7.44 | -6.40 | -5.90 | -5.42 | -4.52 | 1.00 |
| beta[117,1] | -5.73 | 0.70 | -7.17 | -6.19 | -5.71 | -5.25 | -4.38 | 1.00 |
| beta[118,1] | -4.76 | 0.60 | -5.95 | -5.16 | -4.76 | -4.36 | -3.61 | 1.00 |
| beta[119,1] | -5.26 | 0.73 | -6.76 | -5.73 | -5.24 | -4.77 | -3.91 | 1.00 |
| beta[120,1] | -6.43 | 0.92 | -8.31 | -7.04 | -6.39 | -5.79 | -4.75 | 1.00 |
| beta[121,1] | -4.56 | 0.58 | -5.67 | -4.95 | -4.57 | -4.18 | -3.42 | 1.00 |
| beta[122,1] | -4.88 | 0.64 | -6.11 | -5.30 | -4.90 | -4.47 | -3.61 | 1.00 |
| beta[123,1] | -6.20 | 0.79 | -7.82 | -6.71 | -6.17 | -5.65 | -4.72 | 1.00 |
| beta[124,1] | -4.49 | 0.59 | -5.64 | -4.88 | -4.48 | -4.10 | -3.32 | 1.00 |
| beta[125,1] | -5.87 | 0.82 | -7.57 | -6.39 | -5.84 | -5.32 | -4.31 | 1.00 |
| beta[126,1] | -7.03 | 1.04 | -9.20 | -7.68 | -6.97 | -6.32 | -5.13 | 1.00 |
| beta[127,1] | -0.99 | 0.46 | -1.92 | -1.30 | -0.98 | -0.68 | -0.11 | 1.00 |
| beta[128,1] | -8.09 | 1.32 | -11.03 | -8.88 | -7.95 | -7.16 | -5.88 | 1.00 |
| beta[129,1] | -5.95 | 0.82 | -7.64 | -6.47 | -5.92 | -5.40 | -4.41 | 1.00 |
| beta[130,1] | -7.77 | 1.30 | -10.70 | -8.55 | -7.64 | -6.86 | -5.57 | 1.00 |
| beta[131,1] | -7.22 | 1.06 | -9.49 | -7.89 | -7.16 | -6.48 | -5.31 | 1.00 |
| beta[132,1] | -3.23 | 0.50 | -4.23 | -3.57 | -3.23 | -2.91 | -2.23 | 1.00 |
| beta[133,1] | -7.52 | 1.29 | -10.36 | -8.31 | -7.40 | -6.61 | -5.31 | 1.00 |
| beta[134,1] | -4.87 | 0.60 | -6.06 | -5.27 | -4.86 | -4.47 | -3.68 | 1.00 |
| beta[135,1] | -7.95 | 1.34 | -10.97 | -8.77 | -7.84 | -7.02 | -5.63 | 1.00 |
| beta[136,1] | -6.18 | 0.79 | -7.84 | -6.68 | -6.14 | -5.62 | -4.73 | 1.00 |
| beta[137,1] | -4.25 | 0.63 | -5.48 | -4.66 | -4.24 | -3.83 | -3.02 | 1.00 |
| beta[138,1] | -7.57 | 1.30 | -10.47 | -8.34 | -7.45 | -6.68 | -5.32 | 1.00 |
| beta[139,1] | -5.71 | 0.71 | -7.11 | -6.16 | -5.69 | -5.23 | -4.34 | 1.00 |
| beta[140,1] | -3.10 | 0.50 | -4.12 | -3.43 | -3.10 | -2.76 | -2.14 | 1.00 |
| beta[141,1] | -5.28 | 0.76 | -6.77 | -5.79 | -5.30 | -4.76 | -3.76 | 1.00 |
| beta[142,1] | -7.54 | 1.31 | -10.44 | -8.31 | -7.41 | -6.63 | -5.32 | 1.00 |
| beta[143,1] | -6.94 | 0.92 | -8.87 | -7.52 | -6.88 | -6.29 | -5.28 | 1.00 |
| beta[144,1] | -6.92 | 0.93 | -8.81 | -7.52 | -6.88 | -6.28 | -5.23 | 1.00 |
| beta[145,1] | -4.97 | 0.63 | -6.24 | -5.38 | -4.96 | -4.55 | -3.78 | 1.00 |
| beta[146,1] | -3.78 | 0.59 | -4.93 | -4.18 | -3.79 | -3.39 | -2.58 | 1.00 |
| beta[147,1] | -7.97 | 1.35 | -11.00 | -8.79 | -7.86 | -7.03 | -5.68 | 1.00 |
| beta[148,1] | -7.77 | 1.31 | -10.69 | -8.58 | -7.64 | -6.86 | -5.48 | 1.00 |
| beta[149,1] | -3.45 | 0.57 | -4.60 | -3.81 | -3.44 | -3.07 | -2.33 | 1.00 |
| beta[150,1] | -6.21 | 0.79 | -7.85 | -6.73 | -6.19 | -5.66 | -4.73 | 1.00 |
| beta[151,1] | -4.73 | 0.72 | -6.12 | -5.21 | -4.74 | -4.26 | -3.27 | 1.00 |
| beta[152,1] | -3.41 | 0.51 | -4.40 | -3.75 | -3.41 | -3.07 | -2.39 | 1.00 |
| beta[153,1] | -1.60 | 0.52 | -2.62 | -1.95 | -1.60 | -1.26 | -0.57 | 1.00 |
| beta[154,1] | -6.36 | 0.89 | -8.23 | -6.93 | -6.32 | -5.74 | -4.73 | 1.00 |
| beta[155,1] | -6.82 | 1.00 | -9.02 | -7.44 | -6.76 | -6.13 | -4.99 | 1.00 |
| beta[156,1] | -7.01 | 1.04 | -9.19 | -7.66 | -6.95 | -6.30 | -5.12 | 1.00 |
| beta[157,1] | -6.77 | 0.96 | -8.82 | -7.39 | -6.71 | -6.10 | -5.00 | 1.00 |
| beta[158,1] | -1.82 | 0.55 | -2.98 | -2.17 | -1.79 | -1.45 | -0.77 | 1.00 |
| beta[159,1] | -5.77 | 0.80 | -7.41 | -6.28 | -5.74 | -5.21 | -4.25 | 1.00 |
| beta[160,1] | -7.80 | 1.31 | -10.82 | -8.57 | -7.66 | -6.88 | -5.65 | 1.00 |
| beta[161,1] | -3.20 | 0.56 | -4.32 | -3.58 | -3.19 | -2.82 | -2.12 | 1.00 |
| beta[162,1] | -6.19 | 0.88 | -8.01 | -6.75 | -6.15 | -5.58 | -4.55 | 1.00 |
| beta[163,1] | -3.87 | 0.55 | -4.99 | -4.22 | -3.87 | -3.51 | -2.81 | 1.00 |
| beta[164,1] | -7.96 | 1.33 | -10.90 | -8.76 | -7.87 | -7.02 | -5.68 | 1.00 |
| beta[165,1] | -5.09 | 0.64 | -6.36 | -5.52 | -5.09 | -4.66 | -3.83 | 1.00 |
| beta[166,1] | -7.56 | 1.29 | -10.35 | -8.36 | -7.46 | -6.67 | -5.30 | 1.00 |
| beta[167,1] | -6.32 | 0.84 | -8.04 | -6.86 | -6.29 | -5.75 | -4.73 | 1.00 |
| beta[168,1] | -7.80 | 1.29 | -10.76 | -8.55 | -7.66 | -6.91 | -5.66 | 1.00 |
| beta[169,1] | -2.61 | 0.53 | -3.66 | -2.95 | -2.60 | -2.26 | -1.57 | 1.00 |
| beta[170,1] | -8.10 | 1.46 | -11.40 | -8.93 | -7.92 | -7.07 | -5.70 | 1.00 |
| beta[171,1] | -8.45 | 1.50 | -11.87 | -9.32 | -8.29 | -7.39 | -5.98 | 1.00 |
| beta[172,1] | -7.38 | 1.08 | -9.68 | -8.05 | -7.30 | -6.62 | -5.45 | 1.00 |
| beta[173,1] | -7.04 | 0.98 | -9.14 | -7.65 | -6.97 | -6.36 | -5.29 | 1.00 |
| beta[174,1] | -5.31 | 0.74 | -6.79 | -5.78 | -5.31 | -4.80 | -3.89 | 1.00 |
| beta[175,1] | -7.77 | 1.28 | -10.63 | -8.52 | -7.63 | -6.89 | -5.63 | 1.00 |
| beta[176,1] | -6.37 | 0.81 | -8.09 | -6.89 | -6.33 | -5.82 | -4.90 | 1.00 |
| beta[177,1] | -5.20 | 0.70 | -6.62 | -5.65 | -5.18 | -4.71 | -3.86 | 1.00 |
| beta[178,1] | -2.33 | 0.56 | -3.46 | -2.69 | -2.31 | -1.95 | -1.28 | 1.00 |
| beta[179,1] | -7.07 | 1.04 | -9.32 | -7.73 | -7.00 | -6.36 | -5.17 | 1.00 |
| beta[180,1] | -2.99 | 0.50 | -3.98 | -3.31 | -2.98 | -2.66 | -2.05 | 1.00 |
| beta[181,1] | -2.76 | 0.55 | -3.82 | -3.12 | -2.76 | -2.40 | -1.67 | 1.00 |
| beta[182,1] | -5.63 | 0.76 | -7.15 | -6.13 | -5.62 | -5.11 | -4.16 | 1.00 |
| beta[183,1] | -1.21 | 0.52 | -2.26 | -1.54 | -1.21 | -0.86 | -0.19 | 1.00 |
| beta[184,1] | -4.20 | 0.63 | -5.42 | -4.63 | -4.20 | -3.78 | -2.99 | 1.00 |
| beta[185,1] | -4.10 | 0.55 | -5.22 | -4.47 | -4.10 | -3.74 | -3.03 | 1.00 |
| beta[186,1] | -6.22 | 0.89 | -8.01 | -6.79 | -6.19 | -5.60 | -4.56 | 1.00 |
| beta[187,1] | -6.77 | 1.01 | -8.91 | -7.40 | -6.73 | -6.07 | -4.95 | 1.00 |
| beta[188,1] | -0.92 | 0.52 | -1.92 | -1.26 | -0.93 | -0.58 | 0.13 | 1.00 |
| beta[189,1] | -3.92 | 0.61 | -5.11 | -4.34 | -3.92 | -3.52 | -2.70 | 1.00 |
| beta[190,1] | -3.90 | 0.63 | -5.20 | -4.30 | -3.87 | -3.47 | -2.72 | 1.00 |
| beta[191,1] | -7.61 | 1.32 | -10.58 | -8.40 | -7.48 | -6.70 | -5.38 | 1.00 |
| beta[192,1] | -4.26 | 0.63 | -5.52 | -4.69 | -4.25 | -3.83 | -3.05 | 1.00 |
| beta[193,1] | -8.11 | 1.33 | -11.07 | -8.87 | -7.96 | -7.19 | -5.85 | 1.00 |
| beta[194,1] | -8.00 | 1.31 | -10.93 | -8.79 | -7.87 | -7.07 | -5.81 | 1.00 |
| beta[195,1] | -7.79 | 1.31 | -10.66 | -8.58 | -7.67 | -6.87 | -5.60 | 1.00 |
| beta[196,1] | -4.52 | 0.66 | -5.91 | -4.94 | -4.49 | -4.07 | -3.28 | 1.00 |
| beta[197,1] | -2.33 | 0.54 | -3.43 | -2.68 | -2.31 | -1.97 | -1.29 | 1.00 |
| beta[198,1] | -6.20 | 0.83 | -7.89 | -6.72 | -6.16 | -5.64 | -4.66 | 1.00 |
| beta[199,1] | -0.83 | 0.46 | -1.76 | -1.13 | -0.83 | -0.52 | 0.06 | 1.00 |
| beta[200,1] | -7.78 | 1.31 | -10.72 | -8.54 | -7.68 | -6.87 | -5.52 | 1.00 |
| beta[201,1] | -8.12 | 1.35 | -11.16 | -8.92 | -7.97 | -7.17 | -5.91 | 1.00 |
| beta[202,1] | -2.32 | 0.48 | -3.27 | -2.63 | -2.31 | -1.99 | -1.39 | 1.00 |
| beta[203,1] | -6.23 | 0.79 | -7.88 | -6.74 | -6.20 | -5.68 | -4.76 | 1.00 |
| beta[204,1] | -4.98 | 0.67 | -6.34 | -5.41 | -4.96 | -4.52 | -3.71 | 1.00 |
| beta[205,1] | -5.89 | 0.75 | -7.47 | -6.36 | -5.86 | -5.38 | -4.49 | 1.00 |
| beta[206,1] | -3.39 | 0.52 | -4.42 | -3.73 | -3.38 | -3.04 | -2.39 | 1.00 |
| beta[207,1] | -7.44 | 1.05 | -9.70 | -8.11 | -7.38 | -6.71 | -5.59 | 1.00 |
| beta[208,1] | -6.11 | 0.79 | -7.73 | -6.61 | -6.08 | -5.57 | -4.60 | 1.00 |
| beta[209,1] | -6.93 | 0.99 | -9.04 | -7.56 | -6.86 | -6.24 | -5.15 | 1.00 |
| beta[210,1] | -6.36 | 0.92 | -8.22 | -6.95 | -6.33 | -5.74 | -4.61 | 1.00 |
| beta[211,1] | -5.26 | 0.72 | -6.68 | -5.74 | -5.25 | -4.76 | -3.87 | 1.00 |
| beta[212,1] | -7.70 | 1.32 | -10.64 | -8.47 | -7.58 | -6.79 | -5.44 | 1.00 |
| beta[213,1] | -8.01 | 1.31 | -10.94 | -8.78 | -7.88 | -7.08 | -5.82 | 1.00 |
| beta[214,1] | -5.78 | 0.80 | -7.42 | -6.29 | -5.75 | -5.24 | -4.29 | 1.00 |
| beta[215,1] | -7.77 | 1.32 | -10.63 | -8.57 | -7.66 | -6.84 | -5.53 | 1.00 |
| beta[216,1] | -6.34 | 0.90 | -8.16 | -6.92 | -6.31 | -5.72 | -4.68 | 1.00 |
| beta[217,1] | -5.17 | 0.71 | -6.62 | -5.64 | -5.15 | -4.68 | -3.80 | 1.00 |
| beta[218,1] | -4.00 | 0.62 | -5.27 | -4.40 | -4.00 | -3.60 | -2.82 | 1.00 |
| beta[219,1] | -7.55 | 1.32 | -10.42 | -8.35 | -7.42 | -6.64 | -5.33 | 1.00 |
| beta[220,1] | -6.06 | 0.83 | -7.75 | -6.61 | -6.03 | -5.48 | -4.50 | 1.00 |
| beta[221,1] | -7.34 | 1.10 | -9.73 | -8.04 | -7.28 | -6.57 | -5.34 | 1.00 |
| beta[222,1] | -5.60 | 0.77 | -7.16 | -6.11 | -5.59 | -5.08 | -4.14 | 1.00 |
| beta[223,1] | -3.89 | 0.64 | -5.10 | -4.33 | -3.90 | -3.47 | -2.60 | 1.00 |
| beta[224,1] | -7.76 | 1.26 | -10.55 | -8.51 | -7.64 | -6.88 | -5.63 | 1.00 |
| beta[225,1] | -4.28 | 0.64 | -5.53 | -4.71 | -4.29 | -3.85 | -3.00 | 1.00 |
| beta[226,1] | -6.90 | 0.97 | -8.97 | -7.51 | -6.85 | -6.22 | -5.16 | 1.00 |
| beta[227,1] | -6.93 | 0.92 | -8.88 | -7.52 | -6.87 | -6.28 | -5.27 | 1.00 |
| beta[228,1] | -4.75 | 0.69 | -6.21 | -5.19 | -4.71 | -4.27 | -3.48 | 1.00 |
| beta[229,1] | -3.61 | 0.58 | -4.79 | -4.01 | -3.60 | -3.22 | -2.48 | 1.00 |
| beta[230,1] | -4.92 | 0.62 | -6.19 | -5.31 | -4.90 | -4.49 | -3.74 | 1.00 |
| beta[231,1] | -0.18 | 0.54 | -1.27 | -0.53 | -0.16 | 0.19 | 0.81 | 1.00 |
| beta[232,1] | 0.96 | 0.51 | -0.03 | 0.62 | 0.96 | 1.29 | 1.98 | 1.00 |
| beta[233,1] | -6.24 | 0.81 | -7.88 | -6.76 | -6.21 | -5.68 | -4.72 | 1.00 |
| beta[234,1] | -5.84 | 0.79 | -7.41 | -6.36 | -5.83 | -5.31 | -4.31 | 1.00 |
| beta[235,1] | -2.26 | 0.52 | -3.27 | -2.61 | -2.27 | -1.92 | -1.22 | 1.00 |
| beta[236,1] | -8.24 | 1.46 | -11.49 | -9.10 | -8.08 | -7.20 | -5.83 | 1.00 |
| beta[237,1] | -7.38 | 1.11 | -9.78 | -8.07 | -7.32 | -6.61 | -5.40 | 1.00 |
| beta[238,1] | -8.12 | 1.32 | -11.05 | -8.89 | -7.98 | -7.20 | -5.93 | 1.00 |
| beta[239,1] | -6.74 | 0.93 | -8.69 | -7.34 | -6.69 | -6.08 | -5.07 | 1.00 |
| beta[240,1] | -0.79 | 0.46 | -1.72 | -1.10 | -0.78 | -0.48 | 0.11 | 1.00 |
| beta[241,1] | -8.09 | 1.32 | -10.99 | -8.86 | -7.95 | -7.16 | -5.86 | 1.00 |
| beta[242,1] | -7.80 | 1.27 | -10.65 | -8.54 | -7.67 | -6.91 | -5.65 | 1.00 |
| beta[243,1] | -6.27 | 0.88 | -8.14 | -6.83 | -6.22 | -5.67 | -4.65 | 1.00 |
| beta[244,1] | -3.58 | 0.59 | -4.77 | -3.96 | -3.58 | -3.19 | -2.41 | 1.00 |
| beta[245,1] | -0.14 | 0.51 | -1.11 | -0.48 | -0.15 | 0.20 | 0.88 | 1.00 |
| beta[246,1] | -7.75 | 1.28 | -10.66 | -8.49 | -7.63 | -6.87 | -5.62 | 1.00 |
| beta[247,1] | -4.97 | 0.70 | -6.37 | -5.42 | -4.95 | -4.48 | -3.66 | 1.00 |
| beta[248,1] | -8.12 | 1.44 | -11.43 | -8.94 | -7.97 | -7.12 | -5.71 | 1.00 |
| beta[249,1] | -4.57 | 0.65 | -5.84 | -5.01 | -4.57 | -4.14 | -3.30 | 1.00 |
| beta[250,1] | -5.40 | 0.74 | -6.90 | -5.88 | -5.37 | -4.90 | -4.02 | 1.00 |
| beta[251,1] | -4.18 | 0.57 | -5.32 | -4.56 | -4.18 | -3.80 | -3.08 | 1.00 |
| beta[252,1] | -7.73 | 1.30 | -10.65 | -8.49 | -7.61 | -6.83 | -5.50 | 1.00 |
| beta[253,1] | -3.85 | 0.62 | -5.12 | -4.24 | -3.83 | -3.43 | -2.68 | 1.00 |
| beta[254,1] | -1.41 | 0.52 | -2.42 | -1.75 | -1.42 | -1.07 | -0.39 | 1.00 |
| beta[255,1] | -4.57 | 0.65 | -5.83 | -5.00 | -4.56 | -4.13 | -3.29 | 1.00 |
| beta[256,1] | -5.61 | 0.69 | -7.06 | -6.05 | -5.59 | -5.14 | -4.27 | 1.00 |
| beta[257,1] | -5.18 | 0.70 | -6.56 | -5.64 | -5.17 | -4.70 | -3.81 | 1.00 |
| beta[258,1] | -7.76 | 1.32 | -10.76 | -8.55 | -7.63 | -6.83 | -5.53 | 1.00 |
| beta[259,1] | -3.59 | 0.57 | -4.73 | -3.95 | -3.58 | -3.20 | -2.50 | 1.00 |
| beta[260,1] | -6.88 | 1.03 | -9.13 | -7.52 | -6.82 | -6.18 | -5.04 | 1.00 |
| beta[261,1] | -4.31 | 0.63 | -5.56 | -4.71 | -4.31 | -3.89 | -3.08 | 1.00 |
| beta[262,1] | -7.81 | 1.32 | -10.74 | -8.62 | -7.70 | -6.89 | -5.52 | 1.00 |
| beta[263,1] | -7.12 | 1.04 | -9.35 | -7.78 | -7.05 | -6.41 | -5.25 | 1.00 |
| beta[264,1] | -6.45 | 0.92 | -8.35 | -7.04 | -6.42 | -5.82 | -4.73 | 1.00 |
| beta[265,1] | -7.96 | 1.31 | -10.91 | -8.74 | -7.84 | -7.03 | -5.78 | 1.00 |
| beta[266,1] | -4.58 | 0.67 | -5.90 | -5.03 | -4.59 | -4.14 | -3.26 | 1.00 |
| beta[267,1] | -4.18 | 0.64 | -5.42 | -4.61 | -4.19 | -3.75 | -2.89 | 1.00 |
| beta[268,1] | -1.51 | 0.46 | -2.44 | -1.81 | -1.51 | -1.20 | -0.62 | 1.00 |
| beta[269,1] | -1.85 | 0.46 | -2.78 | -2.16 | -1.85 | -1.54 | -0.95 | 1.00 |
| beta[270,1] | -6.82 | 0.96 | -8.86 | -7.41 | -6.76 | -6.16 | -5.12 | 1.00 |
| beta[271,1] | -5.04 | 0.70 | -6.42 | -5.50 | -5.03 | -4.58 | -3.67 | 1.00 |
| beta[272,1] | -3.48 | 0.59 | -4.69 | -3.86 | -3.47 | -3.10 | -2.36 | 1.00 |
| beta[273,1] | 3.64 | 0.59 | 2.47 | 3.25 | 3.64 | 4.03 | 4.80 | 1.00 |
| beta[274,1] | -6.75 | 0.97 | -8.78 | -7.36 | -6.69 | -6.09 | -4.96 | 1.00 |
| beta[275,1] | -7.97 | 1.33 | -10.92 | -8.77 | -7.87 | -7.02 | -5.69 | 1.00 |
| beta[276,1] | -5.48 | 0.75 | -6.96 | -5.97 | -5.47 | -4.98 | -4.01 | 1.00 |
| beta[277,1] | -7.65 | 1.30 | -10.57 | -8.41 | -7.53 | -6.74 | -5.44 | 1.00 |
| beta[278,1] | -2.97 | 0.57 | -4.15 | -3.35 | -2.95 | -2.58 | -1.89 | 1.00 |
| beta[279,1] | -3.37 | 0.60 | -4.63 | -3.76 | -3.34 | -2.96 | -2.25 | 1.00 |
| beta[280,1] | -4.35 | 0.56 | -5.47 | -4.72 | -4.34 | -3.96 | -3.26 | 1.00 |
| beta[281,1] | -6.19 | 0.88 | -7.98 | -6.76 | -6.16 | -5.58 | -4.55 | 1.00 |
| beta[282,1] | -1.52 | 0.53 | -2.52 | -1.88 | -1.54 | -1.17 | -0.42 | 1.00 |
| beta[283,1] | -8.00 | 1.30 | -10.94 | -8.79 | -7.85 | -7.09 | -5.86 | 1.00 |
| beta[284,1] | -6.28 | 0.86 | -8.10 | -6.82 | -6.23 | -5.69 | -4.75 | 1.00 |
| beta[285,1] | -8.10 | 1.31 | -11.04 | -8.87 | -7.97 | -7.17 | -5.92 | 1.00 |
| beta[286,1] | -3.95 | 0.60 | -5.16 | -4.35 | -3.94 | -3.55 | -2.79 | 1.00 |
| beta[287,1] | -6.69 | 0.98 | -8.80 | -7.31 | -6.63 | -6.01 | -4.95 | 1.00 |
| beta[288,1] | -7.80 | 1.31 | -10.76 | -8.57 | -7.66 | -6.88 | -5.60 | 1.00 |
| beta[289,1] | -6.98 | 0.95 | -9.05 | -7.57 | -6.93 | -6.33 | -5.30 | 1.00 |
| beta[290,1] | -2.42 | 0.55 | -3.58 | -2.77 | -2.40 | -2.05 | -1.40 | 1.00 |
| beta[291,1] | -7.95 | 1.32 | -10.91 | -8.73 | -7.82 | -7.03 | -5.75 | 1.00 |
| beta[292,1] | -4.52 | 0.58 | -5.66 | -4.90 | -4.51 | -4.13 | -3.40 | 1.00 |
| beta[293,1] | -7.64 | 1.31 | -10.54 | -8.45 | -7.53 | -6.72 | -5.38 | 1.00 |
| beta[294,1] | -1.53 | 0.47 | -2.49 | -1.83 | -1.51 | -1.21 | -0.64 | 1.00 |
| beta[295,1] | -7.97 | 1.32 | -10.83 | -8.78 | -7.84 | -7.03 | -5.70 | 1.00 |
| beta[296,1] | -6.11 | 0.86 | -7.88 | -6.66 | -6.09 | -5.53 | -4.50 | 1.00 |
| beta[297,1] | -3.26 | 0.59 | -4.47 | -3.66 | -3.24 | -2.86 | -2.16 | 1.00 |
| beta[298,1] | -3.86 | 0.61 | -5.01 | -4.27 | -3.86 | -3.45 | -2.61 | 1.00 |
| beta[299,1] | -6.12 | 0.83 | -7.85 | -6.66 | -6.09 | -5.55 | -4.56 | 1.00 |
| beta[300,1] | -4.64 | 0.60 | -5.84 | -5.02 | -4.63 | -4.24 | -3.50 | 1.00 |
| beta[301,1] | -5.82 | 0.72 | -7.30 | -6.29 | -5.78 | -5.32 | -4.48 | 1.00 |
| beta[302,1] | -5.30 | 0.67 | -6.61 | -5.74 | -5.30 | -4.86 | -3.99 | 1.00 |
| beta[303,1] | -4.84 | 0.62 | -6.13 | -5.23 | -4.83 | -4.42 | -3.67 | 1.00 |
| beta[304,1] | -2.90 | 0.49 | -3.87 | -3.22 | -2.90 | -2.57 | -1.95 | 1.00 |
| beta[305,1] | -3.19 | 0.58 | -4.37 | -3.56 | -3.19 | -2.82 | -2.08 | 1.00 |
| beta[306,1] | -4.71 | 0.70 | -6.17 | -5.15 | -4.68 | -4.23 | -3.43 | 1.00 |
| beta[307,1] | -3.66 | 0.59 | -4.83 | -4.06 | -3.66 | -3.26 | -2.48 | 1.00 |
| beta[308,1] | -6.30 | 0.80 | -8.00 | -6.83 | -6.26 | -5.76 | -4.82 | 1.00 |
| beta[309,1] | -6.38 | 0.94 | -8.42 | -6.96 | -6.31 | -5.72 | -4.73 | 1.00 |
| beta[310,1] | -3.63 | 0.59 | -4.78 | -4.03 | -3.65 | -3.25 | -2.45 | 1.00 |
| beta[311,1] | -7.56 | 1.31 | -10.47 | -8.33 | -7.43 | -6.66 | -5.31 | 1.00 |
| beta[312,1] | -5.04 | 0.70 | -6.45 | -5.50 | -5.03 | -4.57 | -3.69 | 1.00 |
| beta[313,1] | -7.37 | 1.11 | -9.74 | -8.07 | -7.30 | -6.60 | -5.38 | 1.00 |
| beta[314,1] | -3.55 | 0.53 | -4.60 | -3.89 | -3.53 | -3.19 | -2.54 | 1.00 |
| beta[1,2] | 0.00 | 0.06 | -0.13 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[2,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[3,2] | -0.06 | 0.08 | -0.24 | -0.11 | -0.05 | -0.01 | 0.08 | 1.00 |
| beta[4,2] | -0.01 | 0.06 | -0.14 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[5,2] | -0.02 | 0.05 | -0.15 | -0.05 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[6,2] | -0.08 | 0.09 | -0.30 | -0.13 | -0.07 | -0.02 | 0.08 | 1.00 |
| beta[7,2] | 0.06 | 0.09 | -0.08 | -0.01 | 0.04 | 0.11 | 0.25 | 1.00 |
| beta[8,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[9,2] | -0.02 | 0.06 | -0.16 | -0.05 | -0.02 | 0.01 | 0.08 | 1.00 |
| beta[10,2] | 0.02 | 0.06 | -0.08 | -0.02 | 0.01 | 0.04 | 0.15 | 1.00 |
| beta[11,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[12,2] | 0.06 | 0.09 | -0.09 | -0.01 | 0.04 | 0.11 | 0.26 | 1.00 |
| beta[13,2] | -0.08 | 0.09 | -0.28 | -0.13 | -0.06 | -0.02 | 0.08 | 1.00 |
| beta[14,2] | 0.01 | 0.07 | -0.14 | -0.03 | 0.01 | 0.05 | 0.17 | 1.00 |
| beta[15,2] | 0.01 | 0.08 | -0.15 | -0.04 | 0.01 | 0.05 | 0.18 | 1.00 |
| beta[16,2] | -0.03 | 0.06 | -0.16 | -0.05 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[17,2] | -0.03 | 0.08 | -0.18 | -0.07 | -0.03 | 0.02 | 0.13 | 1.00 |
| beta[18,2] | -0.02 | 0.09 | -0.20 | -0.07 | -0.03 | 0.02 | 0.15 | 1.00 |
| beta[19,2] | -0.06 | 0.07 | -0.22 | -0.11 | -0.06 | -0.02 | 0.07 | 1.00 |
| beta[20,2] | -0.01 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[21,2] | -0.02 | 0.07 | -0.17 | -0.07 | -0.03 | 0.02 | 0.13 | 1.00 |
| beta[22,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[23,2] | -0.02 | 0.07 | -0.17 | -0.06 | -0.02 | 0.03 | 0.14 | 1.00 |
| beta[24,2] | -0.01 | 0.08 | -0.17 | -0.06 | -0.02 | 0.04 | 0.17 | 1.00 |
| beta[25,2] | -0.05 | 0.09 | -0.24 | -0.10 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[26,2] | 0.03 | 0.06 | -0.07 | -0.01 | 0.01 | 0.05 | 0.18 | 1.00 |
| beta[27,2] | -0.03 | 0.08 | -0.20 | -0.07 | -0.03 | 0.02 | 0.13 | 1.00 |
| beta[28,2] | -0.01 | 0.06 | -0.13 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[29,2] | -0.04 | 0.07 | -0.19 | -0.08 | -0.03 | 0.01 | 0.11 | 1.00 |
| beta[30,2] | -0.03 | 0.06 | -0.19 | -0.05 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[31,2] | -0.06 | 0.09 | -0.26 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[32,2] | -0.02 | 0.06 | -0.15 | -0.04 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[33,2] | 0.03 | 0.09 | -0.11 | -0.03 | 0.02 | 0.08 | 0.24 | 1.00 |
| beta[34,2] | -0.01 | 0.05 | -0.12 | -0.03 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[35,2] | -0.04 | 0.08 | -0.20 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[36,2] | 0.04 | 0.09 | -0.10 | -0.02 | 0.03 | 0.09 | 0.24 | 1.00 |
| beta[37,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[38,2] | -0.05 | 0.07 | -0.21 | -0.10 | -0.05 | -0.01 | 0.09 | 1.00 |
| beta[39,2] | -0.05 | 0.08 | -0.23 | -0.09 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[40,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[41,2] | 0.02 | 0.06 | -0.08 | -0.02 | 0.01 | 0.04 | 0.15 | 1.00 |
| beta[42,2] | 0.02 | 0.08 | -0.12 | -0.03 | 0.01 | 0.07 | 0.20 | 1.00 |
| beta[43,2] | -0.08 | 0.09 | -0.29 | -0.13 | -0.06 | -0.02 | 0.07 | 1.00 |
| beta[44,2] | 0.01 | 0.08 | -0.14 | -0.04 | 0.00 | 0.05 | 0.19 | 1.00 |
| beta[45,2] | 0.00 | 0.06 | -0.13 | -0.03 | 0.00 | 0.02 | 0.12 | 1.00 |
| beta[46,2] | -0.02 | 0.06 | -0.16 | -0.04 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[47,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[48,2] | 0.02 | 0.08 | -0.13 | -0.04 | 0.01 | 0.07 | 0.21 | 1.00 |
| beta[49,2] | -0.02 | 0.07 | -0.16 | -0.06 | -0.02 | 0.02 | 0.14 | 1.00 |
| beta[50,2] | -0.05 | 0.08 | -0.23 | -0.10 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[51,2] | -0.03 | 0.07 | -0.18 | -0.08 | -0.03 | 0.01 | 0.12 | 1.00 |
| beta[52,2] | -0.04 | 0.07 | -0.19 | -0.08 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[53,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[54,2] | 0.00 | 0.08 | -0.14 | -0.05 | -0.01 | 0.04 | 0.17 | 1.00 |
| beta[55,2] | -0.01 | 0.08 | -0.19 | -0.05 | -0.01 | 0.03 | 0.14 | 1.00 |
| beta[56,2] | -0.02 | 0.05 | -0.15 | -0.05 | -0.01 | 0.01 | 0.07 | 1.00 |
| beta[57,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[58,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[59,2] | -0.01 | 0.05 | -0.12 | -0.03 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[60,2] | -0.04 | 0.09 | -0.23 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[61,2] | -0.02 | 0.07 | -0.16 | -0.06 | -0.02 | 0.02 | 0.13 | 1.00 |
| beta[62,2] | -0.02 | 0.07 | -0.17 | -0.06 | -0.02 | 0.02 | 0.13 | 1.00 |
| beta[63,2] | -0.09 | 0.08 | -0.28 | -0.14 | -0.07 | -0.03 | 0.05 | 1.00 |
| beta[64,2] | -0.01 | 0.05 | -0.13 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[65,2] | -0.04 | 0.09 | -0.22 | -0.08 | -0.04 | 0.01 | 0.14 | 1.00 |
| beta[66,2] | -0.07 | 0.08 | -0.24 | -0.12 | -0.06 | -0.02 | 0.06 | 1.00 |
| beta[67,2] | -0.05 | 0.07 | -0.24 | -0.08 | -0.03 | 0.00 | 0.05 | 1.00 |
| beta[68,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[69,2] | 0.00 | 0.06 | -0.13 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[70,2] | 0.01 | 0.06 | -0.10 | -0.03 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[71,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[72,2] | -0.01 | 0.08 | -0.19 | -0.05 | -0.01 | 0.04 | 0.15 | 1.00 |
| beta[73,2] | 0.02 | 0.07 | -0.11 | -0.02 | 0.02 | 0.06 | 0.19 | 1.00 |
| beta[74,2] | -0.07 | 0.09 | -0.28 | -0.12 | -0.06 | -0.02 | 0.09 | 1.00 |
| beta[75,2] | -0.02 | 0.09 | -0.19 | -0.06 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[76,2] | -0.07 | 0.09 | -0.27 | -0.12 | -0.05 | -0.01 | 0.09 | 1.00 |
| beta[77,2] | -0.02 | 0.09 | -0.19 | -0.07 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[78,2] | -0.05 | 0.08 | -0.22 | -0.10 | -0.05 | -0.01 | 0.09 | 1.00 |
| beta[79,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[80,2] | -0.07 | 0.09 | -0.27 | -0.12 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[81,2] | -0.01 | 0.05 | -0.13 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[82,2] | -0.05 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[83,2] | 0.01 | 0.09 | -0.14 | -0.04 | 0.00 | 0.06 | 0.20 | 1.00 |
| beta[84,2] | 0.00 | 0.08 | -0.17 | -0.05 | -0.01 | 0.04 | 0.18 | 1.00 |
| beta[85,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[86,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[87,2] | -0.03 | 0.08 | -0.19 | -0.07 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[88,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[89,2] | -0.02 | 0.05 | -0.16 | -0.05 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[90,2] | -0.01 | 0.05 | -0.12 | -0.03 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[91,2] | -0.08 | 0.09 | -0.30 | -0.14 | -0.07 | -0.02 | 0.07 | 1.00 |
| beta[92,2] | -0.03 | 0.07 | -0.18 | -0.07 | -0.03 | 0.01 | 0.12 | 1.00 |
| beta[93,2] | 0.01 | 0.06 | -0.09 | -0.02 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[94,2] | 0.03 | 0.06 | -0.07 | -0.01 | 0.01 | 0.05 | 0.17 | 1.00 |
| beta[95,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[96,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[97,2] | -0.04 | 0.08 | -0.22 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[98,2] | 0.00 | 0.08 | -0.17 | -0.04 | 0.00 | 0.04 | 0.16 | 1.00 |
| beta[99,2] | 0.01 | 0.08 | -0.14 | -0.04 | 0.00 | 0.05 | 0.19 | 1.00 |
| beta[100,2] | -0.06 | 0.09 | -0.25 | -0.10 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[101,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[102,2] | -0.06 | 0.08 | -0.24 | -0.10 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[103,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[104,2] | -0.03 | 0.09 | -0.22 | -0.08 | -0.03 | 0.01 | 0.14 | 1.00 |
| beta[105,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[106,2] | -0.01 | 0.06 | -0.14 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[107,2] | -0.01 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[108,2] | -0.04 | 0.08 | -0.21 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[109,2] | -0.05 | 0.09 | -0.23 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[110,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[111,2] | -0.01 | 0.08 | -0.17 | -0.06 | -0.02 | 0.04 | 0.17 | 1.00 |
| beta[112,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[113,2] | -0.07 | 0.08 | -0.24 | -0.11 | -0.06 | -0.02 | 0.07 | 1.00 |
| beta[114,2] | -0.05 | 0.07 | -0.21 | -0.09 | -0.04 | -0.01 | 0.09 | 1.00 |
| beta[115,2] | -0.05 | 0.09 | -0.23 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[116,2] | -0.01 | 0.06 | -0.13 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[117,2] | -0.01 | 0.06 | -0.13 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[118,2] | -0.01 | 0.05 | -0.13 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[119,2] | -0.02 | 0.08 | -0.17 | -0.06 | -0.02 | 0.03 | 0.15 | 1.00 |
| beta[120,2] | -0.03 | 0.08 | -0.19 | -0.07 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[121,2] | -0.02 | 0.06 | -0.15 | -0.05 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[122,2] | -0.04 | 0.07 | -0.22 | -0.07 | -0.03 | 0.00 | 0.05 | 1.00 |
| beta[123,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[124,2] | -0.02 | 0.06 | -0.16 | -0.04 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[125,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[126,2] | -0.02 | 0.09 | -0.20 | -0.07 | -0.03 | 0.02 | 0.16 | 1.00 |
| beta[127,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[128,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[129,2] | -0.01 | 0.08 | -0.17 | -0.06 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[130,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[131,2] | 0.00 | 0.08 | -0.16 | -0.05 | -0.01 | 0.05 | 0.19 | 1.00 |
| beta[132,2] | -0.02 | 0.05 | -0.14 | -0.04 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[133,2] | -0.07 | 0.09 | -0.28 | -0.12 | -0.06 | -0.02 | 0.08 | 1.00 |
| beta[134,2] | -0.01 | 0.05 | -0.12 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[135,2] | -0.02 | 0.09 | -0.19 | -0.07 | -0.03 | 0.03 | 0.16 | 1.00 |
| beta[136,2] | 0.01 | 0.06 | -0.09 | -0.02 | 0.01 | 0.04 | 0.16 | 1.00 |
| beta[137,2] | -0.06 | 0.08 | -0.24 | -0.11 | -0.05 | -0.02 | 0.08 | 1.00 |
| beta[138,2] | -0.06 | 0.09 | -0.27 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[139,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[140,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[141,2] | -0.10 | 0.09 | -0.32 | -0.15 | -0.08 | -0.03 | 0.05 | 1.00 |
| beta[142,2] | -0.07 | 0.09 | -0.28 | -0.12 | -0.06 | -0.01 | 0.09 | 1.00 |
| beta[143,2] | -0.01 | 0.06 | -0.13 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[144,2] | -0.01 | 0.06 | -0.14 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[145,2] | 0.00 | 0.06 | -0.11 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[146,2] | -0.02 | 0.07 | -0.18 | -0.05 | -0.01 | 0.03 | 0.12 | 1.00 |
| beta[147,2] | -0.02 | 0.09 | -0.19 | -0.07 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[148,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[149,2] | -0.01 | 0.07 | -0.15 | -0.05 | -0.02 | 0.03 | 0.15 | 1.00 |
| beta[150,2] | 0.00 | 0.06 | -0.13 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[151,2] | -0.13 | 0.10 | -0.37 | -0.19 | -0.12 | -0.05 | 0.02 | 1.00 |
| beta[152,2] | -0.01 | 0.05 | -0.12 | -0.03 | 0.00 | 0.02 | 0.10 | 1.00 |
| beta[153,2] | -0.03 | 0.07 | -0.17 | -0.07 | -0.03 | 0.02 | 0.12 | 1.00 |
| beta[154,2] | 0.00 | 0.08 | -0.15 | -0.05 | -0.01 | 0.05 | 0.19 | 1.00 |
| beta[155,2] | -0.05 | 0.09 | -0.24 | -0.10 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[156,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.03 | 0.02 | 0.15 | 1.00 |
| beta[157,2] | 0.02 | 0.09 | -0.13 | -0.04 | 0.01 | 0.07 | 0.22 | 1.00 |
| beta[158,2] | 0.01 | 0.08 | -0.12 | -0.04 | 0.00 | 0.06 | 0.19 | 1.00 |
| beta[159,2] | 0.01 | 0.08 | -0.14 | -0.04 | 0.00 | 0.06 | 0.20 | 1.00 |
| beta[160,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[161,2] | 0.01 | 0.07 | -0.12 | -0.03 | 0.01 | 0.05 | 0.17 | 1.00 |
| beta[162,2] | -0.03 | 0.08 | -0.20 | -0.07 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[163,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.01 | 0.04 | 0.14 | 1.00 |
| beta[164,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.03 | 0.03 | 0.16 | 1.00 |
| beta[165,2] | -0.02 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.09 | 1.00 |
| beta[166,2] | -0.07 | 0.09 | -0.28 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[167,2] | 0.00 | 0.08 | -0.16 | -0.04 | 0.00 | 0.04 | 0.16 | 1.00 |
| beta[168,2] | -0.02 | 0.06 | -0.16 | -0.05 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[169,2] | 0.01 | 0.07 | -0.12 | -0.03 | 0.01 | 0.05 | 0.15 | 1.00 |
| beta[170,2] | -0.02 | 0.08 | -0.22 | -0.06 | -0.01 | 0.03 | 0.12 | 1.00 |
| beta[171,2] | 0.01 | 0.08 | -0.15 | -0.04 | 0.00 | 0.05 | 0.18 | 1.00 |
| beta[172,2] | 0.00 | 0.08 | -0.17 | -0.04 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[173,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[174,2] | -0.04 | 0.08 | -0.20 | -0.08 | -0.03 | 0.01 | 0.12 | 1.00 |
| beta[175,2] | -0.02 | 0.06 | -0.18 | -0.05 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[176,2] | 0.00 | 0.06 | -0.11 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[177,2] | 0.00 | 0.07 | -0.15 | -0.04 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[178,2] | 0.03 | 0.08 | -0.10 | -0.02 | 0.02 | 0.08 | 0.21 | 1.00 |
| beta[179,2] | -0.02 | 0.08 | -0.19 | -0.06 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[180,2] | 0.01 | 0.05 | -0.08 | -0.02 | 0.00 | 0.04 | 0.14 | 1.00 |
| beta[181,2] | -0.04 | 0.07 | -0.19 | -0.08 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[182,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.02 | 0.02 | 0.15 | 1.00 |
| beta[183,2] | -0.01 | 0.07 | -0.15 | -0.06 | -0.02 | 0.03 | 0.14 | 1.00 |
| beta[184,2] | -0.07 | 0.08 | -0.24 | -0.11 | -0.06 | -0.02 | 0.08 | 1.00 |
| beta[185,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[186,2] | -0.07 | 0.09 | -0.27 | -0.12 | -0.06 | -0.02 | 0.09 | 1.00 |
| beta[187,2] | -0.05 | 0.09 | -0.25 | -0.10 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[188,2] | -0.07 | 0.07 | -0.23 | -0.11 | -0.06 | -0.02 | 0.07 | 1.00 |
| beta[189,2] | -0.02 | 0.07 | -0.19 | -0.06 | -0.01 | 0.03 | 0.12 | 1.00 |
| beta[190,2] | 0.02 | 0.08 | -0.11 | -0.03 | 0.01 | 0.07 | 0.21 | 1.00 |
| beta[191,2] | -0.06 | 0.09 | -0.27 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[192,2] | -0.04 | 0.08 | -0.21 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[193,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[194,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[195,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[196,2] | 0.02 | 0.08 | -0.13 | -0.04 | 0.00 | 0.06 | 0.19 | 1.00 |
| beta[197,2] | -0.01 | 0.07 | -0.15 | -0.05 | -0.02 | 0.03 | 0.15 | 1.00 |
| beta[198,2] | 0.00 | 0.07 | -0.15 | -0.04 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[199,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[200,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[201,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[202,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[203,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[204,2] | 0.01 | 0.07 | -0.13 | -0.03 | 0.01 | 0.05 | 0.17 | 1.00 |
| beta[205,2] | 0.00 | 0.06 | -0.13 | -0.03 | 0.00 | 0.02 | 0.12 | 1.00 |
| beta[206,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[207,2] | 0.01 | 0.06 | -0.11 | -0.03 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[208,2] | -0.02 | 0.06 | -0.16 | -0.04 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[209,2] | 0.01 | 0.09 | -0.14 | -0.04 | 0.00 | 0.06 | 0.21 | 1.00 |
| beta[210,2] | -0.06 | 0.09 | -0.26 | -0.10 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[211,2] | -0.05 | 0.08 | -0.23 | -0.09 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[212,2] | -0.05 | 0.09 | -0.25 | -0.10 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[213,2] | -0.01 | 0.06 | -0.14 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[214,2] | -0.04 | 0.08 | -0.22 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[215,2] | -0.04 | 0.08 | -0.22 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[216,2] | -0.04 | 0.08 | -0.22 | -0.09 | -0.04 | 0.01 | 0.12 | 1.00 |
| beta[217,2] | -0.04 | 0.08 | -0.20 | -0.08 | -0.03 | 0.01 | 0.12 | 1.00 |
| beta[218,2] | 0.00 | 0.08 | -0.15 | -0.05 | -0.01 | 0.04 | 0.17 | 1.00 |
| beta[219,2] | -0.07 | 0.09 | -0.28 | -0.12 | -0.06 | -0.01 | 0.09 | 1.00 |
| beta[220,2] | -0.02 | 0.08 | -0.19 | -0.06 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[221,2] | -0.01 | 0.09 | -0.17 | -0.05 | -0.01 | 0.04 | 0.18 | 1.00 |
| beta[222,2] | -0.05 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[223,2] | -0.10 | 0.09 | -0.30 | -0.15 | -0.08 | -0.03 | 0.05 | 1.00 |
| beta[224,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.02 | 0.01 | 0.08 | 1.00 |
| beta[225,2] | -0.08 | 0.08 | -0.27 | -0.13 | -0.07 | -0.03 | 0.06 | 1.00 |
| beta[226,2] | -0.02 | 0.06 | -0.16 | -0.05 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[227,2] | -0.01 | 0.06 | -0.13 | -0.03 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[228,2] | 0.02 | 0.08 | -0.12 | -0.04 | 0.01 | 0.07 | 0.20 | 1.00 |
| beta[229,2] | -0.03 | 0.07 | -0.18 | -0.07 | -0.03 | 0.02 | 0.13 | 1.00 |
| beta[230,2] | 0.01 | 0.06 | -0.09 | -0.02 | 0.01 | 0.04 | 0.15 | 1.00 |
| beta[231,2] | 0.03 | 0.08 | -0.10 | -0.02 | 0.02 | 0.08 | 0.21 | 1.00 |
| beta[232,2] | -0.04 | 0.07 | -0.19 | -0.08 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[233,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[234,2] | -0.03 | 0.08 | -0.21 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[235,2] | -0.01 | 0.07 | -0.15 | -0.05 | -0.01 | 0.03 | 0.13 | 1.00 |
| beta[236,2] | -0.01 | 0.08 | -0.18 | -0.05 | -0.01 | 0.04 | 0.14 | 1.00 |
| beta[237,2] | 0.00 | 0.09 | -0.16 | -0.05 | -0.01 | 0.04 | 0.19 | 1.00 |
| beta[238,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[239,2] | 0.01 | 0.08 | -0.14 | -0.04 | 0.00 | 0.05 | 0.17 | 1.00 |
| beta[240,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.11 | 1.00 |
| beta[241,2] | 0.00 | 0.06 | -0.12 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[242,2] | -0.02 | 0.06 | -0.16 | -0.05 | -0.01 | 0.01 | 0.09 | 1.00 |
| beta[243,2] | 0.01 | 0.08 | -0.14 | -0.04 | 0.00 | 0.06 | 0.20 | 1.00 |
| beta[244,2] | -0.01 | 0.07 | -0.15 | -0.06 | -0.02 | 0.03 | 0.15 | 1.00 |
| beta[245,2] | -0.05 | 0.07 | -0.21 | -0.09 | -0.04 | -0.01 | 0.09 | 1.00 |
| beta[246,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.02 | 0.01 | 0.08 | 1.00 |
| beta[247,2] | 0.00 | 0.08 | -0.16 | -0.05 | -0.01 | 0.04 | 0.17 | 1.00 |
| beta[248,2] | -0.02 | 0.09 | -0.22 | -0.06 | -0.01 | 0.03 | 0.13 | 1.00 |
| beta[249,2] | -0.04 | 0.08 | -0.21 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[250,2] | -0.03 | 0.08 | -0.19 | -0.07 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[251,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[252,2] | -0.05 | 0.09 | -0.24 | -0.10 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[253,2] | -0.01 | 0.08 | -0.15 | -0.05 | -0.01 | 0.04 | 0.16 | 1.00 |
| beta[254,2] | -0.03 | 0.07 | -0.19 | -0.07 | -0.03 | 0.01 | 0.11 | 1.00 |
| beta[255,2] | -0.04 | 0.08 | -0.21 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[256,2] | 0.00 | 0.06 | -0.11 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[257,2] | -0.03 | 0.08 | -0.19 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[258,2] | -0.05 | 0.09 | -0.24 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[259,2] | 0.00 | 0.07 | -0.15 | -0.05 | -0.01 | 0.04 | 0.16 | 1.00 |
| beta[260,2] | -0.04 | 0.09 | -0.23 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[261,2] | -0.05 | 0.08 | -0.22 | -0.09 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[262,2] | -0.04 | 0.09 | -0.22 | -0.09 | -0.04 | 0.01 | 0.13 | 1.00 |
| beta[263,2] | 0.00 | 0.09 | -0.16 | -0.05 | -0.01 | 0.05 | 0.20 | 1.00 |
| beta[264,2] | -0.04 | 0.08 | -0.23 | -0.09 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[265,2] | -0.01 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[266,2] | -0.09 | 0.09 | -0.28 | -0.14 | -0.07 | -0.03 | 0.06 | 1.00 |
| beta[267,2] | -0.08 | 0.08 | -0.26 | -0.13 | -0.07 | -0.03 | 0.06 | 1.00 |
| beta[268,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[269,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.02 | 0.11 | 1.00 |
| beta[270,2] | -0.03 | 0.06 | -0.19 | -0.05 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[271,2] | -0.02 | 0.08 | -0.19 | -0.07 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[272,2] | 0.00 | 0.08 | -0.14 | -0.04 | 0.00 | 0.05 | 0.17 | 1.00 |
| beta[273,2] | -0.01 | 0.07 | -0.16 | -0.06 | -0.02 | 0.03 | 0.15 | 1.00 |
| beta[274,2] | -0.03 | 0.08 | -0.21 | -0.08 | -0.03 | 0.02 | 0.14 | 1.00 |
| beta[275,2] | -0.02 | 0.09 | -0.19 | -0.07 | -0.02 | 0.03 | 0.16 | 1.00 |
| beta[276,2] | -0.05 | 0.08 | -0.23 | -0.09 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[277,2] | -0.06 | 0.09 | -0.26 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[278,2] | 0.01 | 0.08 | -0.13 | -0.04 | 0.00 | 0.05 | 0.17 | 1.00 |
| beta[279,2] | 0.02 | 0.08 | -0.11 | -0.03 | 0.01 | 0.07 | 0.20 | 1.00 |
| beta[280,2] | 0.00 | 0.05 | -0.10 | -0.03 | 0.00 | 0.03 | 0.12 | 1.00 |
| beta[281,2] | -0.05 | 0.08 | -0.24 | -0.10 | -0.04 | 0.00 | 0.11 | 1.00 |
| beta[282,2] | -0.08 | 0.08 | -0.26 | -0.13 | -0.07 | -0.03 | 0.05 | 1.00 |
| beta[283,2] | -0.01 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[284,2] | 0.02 | 0.08 | -0.11 | -0.03 | 0.01 | 0.06 | 0.21 | 1.00 |
| beta[285,2] | 0.00 | 0.06 | -0.13 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[286,2] | 0.00 | 0.07 | -0.15 | -0.04 | 0.00 | 0.04 | 0.14 | 1.00 |
| beta[287,2] | 0.02 | 0.09 | -0.13 | -0.04 | 0.01 | 0.07 | 0.23 | 1.00 |
| beta[288,2] | -0.02 | 0.06 | -0.17 | -0.05 | -0.01 | 0.01 | 0.08 | 1.00 |
| beta[289,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[290,2] | 0.01 | 0.08 | -0.12 | -0.04 | 0.00 | 0.06 | 0.18 | 1.00 |
| beta[291,2] | -0.01 | 0.06 | -0.15 | -0.04 | -0.01 | 0.02 | 0.11 | 1.00 |
| beta[292,2] | 0.00 | 0.05 | -0.11 | -0.03 | 0.00 | 0.02 | 0.11 | 1.00 |
| beta[293,2] | -0.06 | 0.09 | -0.27 | -0.11 | -0.05 | -0.01 | 0.10 | 1.00 |
| beta[294,2] | 0.01 | 0.05 | -0.08 | -0.02 | 0.00 | 0.04 | 0.14 | 1.00 |
| beta[295,2] | -0.02 | 0.09 | -0.19 | -0.07 | -0.02 | 0.03 | 0.17 | 1.00 |
| beta[296,2] | -0.04 | 0.08 | -0.22 | -0.08 | -0.03 | 0.01 | 0.13 | 1.00 |
| beta[297,2] | 0.02 | 0.08 | -0.11 | -0.03 | 0.01 | 0.07 | 0.20 | 1.00 |
| beta[298,2] | -0.06 | 0.08 | -0.23 | -0.10 | -0.05 | -0.01 | 0.09 | 1.00 |
| beta[299,2] | -0.03 | 0.08 | -0.20 | -0.08 | -0.03 | 0.01 | 0.14 | 1.00 |
| beta[300,2] | 0.00 | 0.06 | -0.11 | -0.03 | 0.00 | 0.03 | 0.13 | 1.00 |
| beta[301,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.03 | 0.14 | 1.00 |
| beta[302,2] | -0.03 | 0.06 | -0.18 | -0.06 | -0.02 | 0.01 | 0.07 | 1.00 |
| beta[303,2] | 0.02 | 0.06 | -0.08 | -0.02 | 0.01 | 0.04 | 0.16 | 1.00 |
| beta[304,2] | -0.01 | 0.05 | -0.13 | -0.04 | -0.01 | 0.02 | 0.10 | 1.00 |
| beta[305,2] | -0.01 | 0.08 | -0.15 | -0.05 | -0.01 | 0.04 | 0.16 | 1.00 |
| beta[306,2] | 0.03 | 0.08 | -0.11 | -0.03 | 0.02 | 0.08 | 0.22 | 1.00 |
| beta[307,2] | -0.06 | 0.08 | -0.23 | -0.10 | -0.05 | -0.01 | 0.09 | 1.00 |
| beta[308,2] | 0.01 | 0.06 | -0.10 | -0.02 | 0.00 | 0.04 | 0.15 | 1.00 |
| beta[309,2] | 0.04 | 0.09 | -0.11 | -0.03 | 0.02 | 0.09 | 0.25 | 1.00 |
| beta[310,2] | -0.05 | 0.07 | -0.21 | -0.09 | -0.04 | 0.00 | 0.10 | 1.00 |
| beta[311,2] | -0.07 | 0.09 | -0.28 | -0.12 | -0.06 | -0.02 | 0.09 | 1.00 |
| beta[312,2] | -0.04 | 0.08 | -0.21 | -0.08 | -0.04 | 0.00 | 0.12 | 1.00 |
| beta[313,2] | -0.01 | 0.08 | -0.16 | -0.05 | -0.01 | 0.04 | 0.18 | 1.00 |
| beta[314,2] | 0.01 | 0.05 | -0.09 | -0.02 | 0.00 | 0.04 | 0.14 | 1.00 |
| mu.beta[1,1] | -8.18 | 1.32 | -11.19 | -8.99 | -7.98 | -7.20 | -6.17 | 1.00 |
| mu.beta[2,1] | -7.83 | 1.04 | -10.37 | -8.39 | -7.65 | -7.10 | -6.28 | 1.00 |
| mu.beta[3,1] | -10.66 | 2.57 | -15.73 | -12.55 | -10.55 | -8.64 | -6.26 | 1.00 |
| mu.beta[1,2] | -0.01 | 0.02 | -0.05 | -0.02 | -0.01 | 0.00 | 0.03 | 1.00 |
| mu.beta[2,2] | -0.04 | 0.02 | -0.08 | -0.05 | -0.04 | -0.03 | -0.01 | 1.00 |
| mu.beta[3,2] | -0.01 | 0.05 | -0.11 | -0.04 | -0.01 | 0.02 | 0.08 | 1.00 |
| psi | 0.55 | 0.12 | 0.38 | 0.46 | 0.52 | 0.61 | 0.84 | 1.00 |
| sigma.beta[1,1] | 3.63 | 0.58 | 2.64 | 3.19 | 3.58 | 4.03 | 4.83 | 1.00 |
| sigma.beta[2,1] | 3.35 | 0.47 | 2.59 | 3.02 | 3.29 | 3.63 | 4.46 | 1.00 |
| sigma.beta[3,1] | 3.91 | 0.78 | 2.20 | 3.37 | 4.05 | 4.58 | 4.95 | 1.00 |
| sigma.beta[1,2] | 0.05 | 0.03 | 0.00 | 0.02 | 0.04 | 0.07 | 0.12 | 1.00 |
| sigma.beta[2,2] | 0.08 | 0.04 | 0.01 | 0.06 | 0.08 | 0.11 | 0.14 | 1.09 |
| sigma.beta[3,2] | 0.05 | 0.04 | 0.00 | 0.02 | 0.04 | 0.08 | 0.16 | 1.00 |
| sigma.site | 1.35 | 0.04 | 1.28 | 1.32 | 1.35 | 1.37 | 1.42 | 1.00 |

R: Estimated species richness of the entire area of sampled 12 patches. beta[i,1]: intercept of species i in occurrence model. beta[i,2]: slope of species i in occurrence model. mu.beta[i,1]: hyper-parameter of intercept for functional group i. mu.beta[i,2]: hyper-parameter of slope for functional group i. psi: inclusion rage of potential species into the community. See Appendix S7 for details of other parts of the explanation.

Note: We did not account for detectability, and assumed perfect detection.