

Species distribution models are transformed into carrying capacity landscapes (K_i)

100	80	50	75
65	25	20	40
35	5	55	50
10	0	15	60

$K_{i,21kya}$ linear

20	10	5	10
70	40	20	15
100	80	35	30
95	60	50	35

$K_{i,6kya}$ linear

40	20	10	5
100	60	20	10
100	100	40	30
90	80	60	50

$K_{i,current}$ linear

Equal interval time slices are created from K_i of the same transformation



Contribution to K_i time slices

K_i \ time slice	22	20	18	16	14	12	10	8	6	4	2	0
$K_{i,21kya}$ linear	100%	88%	75%	63%	50%	38%	25%	13%	0%	0%	0%	0%
$K_{i,6kya}$ linear	0%	13%	25%	38%	50%	63%	75%	88%	100%	67%	33%	0%
$K_{i,current}$ linear	0%	0%	0%	0%	0%	0%	0%	0%	0%	33%	67%	100%



100	80	50	75
65	25	20	40
35	5	55	50
10	0	15	60

22 kya

90	71	44	67
66	27	20	37
43	14	53	48
21	8	19	57

20 kya

80	63	39	59
66	29	20	34
51	24	50	45
31	15	24	54

18 kya

70	54	33	51
67	31	20	31
59	33	48	43
42	23	28	51

16 kya

60	45	28	43
68	33	20	28
68	43	45	40
53	30	33	48

14 kya

50	36	22	34
68	34	20	24
76	52	43	38
63	38	37	44

12 kya

40	28	16	26
69	36	20	21
84	61	40	35
74	45	41	41

10 kya

30	19	11	18
69	38	20	18
92	71	38	33
84	53	46	38

8 kya

20	10	5	10
70	40	20	15
100	80	35	30
95	60	50	35

6 kya

27	13	7	8
80	47	20	13
100	87	37	30
93	67	53	40

4 kya

33	17	8	7
90	53	20	12
100	93	38	30
92	73	57	45

2 kya

40	20	10	5
100	60	20	10
100	100	40	30
90	80	60	50

current



Relevant barriers can be added to each time slice (e.g. changes due to fluctuating sea level or glaciation)



Colonize a demographic model based on K_i and friction landscape (F_i) time slices