

Projected fire change 2000 - 2099

Unvetted preliminary rush draft from developmental code

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1 Projected fire change tables

In each subsection below, the third table down with percentages relates to table 8.1 in the original document. This uses strictly ALFRESCO output. The tables use years 2000 - 2009 and 2090 - 2099. There is one section for each region, Alaska and the five LCCs.

1.1 Alaska

1.1.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	59	3089
SRES B1	95th	84	17667
SRES A1B	50th	60	3398
SRES A1B	95th	84	17971
SRES A2	50th	59	3155
SRES A2	95th	84	17880

1.1.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	66	3636
SRES B1	95th	88	16038
SRES A1B	50th	60	2887
SRES A1B	95th	84	19259
SRES A2	50th	62	5324
SRES A2	95th	88	32569

1.1.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	12.7	17.7
SRES B1	95th	4.8	-9.2
SRES A1B	50th	0.8	-15.0
SRES A1B	95th	0.9	7.2
SRES A2	50th	4.2	68.8
SRES A2	95th	5.2	82.2

1.2 Arctic

1.2.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	10
SRES B1	95th	3	6230
SRES A1B	50th	1	22
SRES A1B	95th	3	5553
SRES A2	50th	1	10
SRES A2	95th	3	5919

1.2.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	16
SRES B1	95th	3	3323
SRES A1B	50th	1	22
SRES A1B	95th	4	4128
SRES A2	50th	1	140
SRES A2	95th	4	8362

1.2.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0.0	60.0
SRES B1	95th	0.0	-46.7
SRES A1B	50th	0.0	0.0
SRES A1B	95th	18.3	-25.7
SRES A2	50th	0.0	1300.0
SRES A2	95th	33.3	41.3

1.3 North Pacific

1.3.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0	2
SRES B1	95th	2	25
SRES A1B	50th	0	2
SRES A1B	95th	2	27
SRES A2	50th	0	2
SRES A2	95th	2	25

1.3.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0	2
SRES B1	95th	2	25
SRES A1B	50th	0	2
SRES A1B	95th	2	28
SRES A2	50th	0	5
SRES A2	95th	3	160

1.3.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-	-
SRES B1	95th	0	0
SRES A1B	50th	-	-
SRES A1B	95th	-22.5	3.7
SRES A2	50th	-	-
SRES A2	95th	64.52	540

1.4 Northwest Interior Forest North

1.4.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	42	2216
SRES B1	95th	62	10511
SRES A1B	50th	42	2274
SRES A1B	95th	62	10342
SRES A2	50th	42	2194
SRES A2	95th	63	10459

1.4.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	48	2622
SRES B1	95th	67	7855
SRES A1B	50th	45	2295
SRES A1B	95th	64	10199
SRES A2	50th	44	3239
SRES A2	95th	66	16626

1.4.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	15.5	18.3
SRES B1	95th	7.3	-25.3
SRES A1B	50th	5.9	0.9
SRES A1B	95th	3.5	-1.4
SRES A2	50th	7.2	47.6
SRES A2	95th	5.3	59.0

1.5 Northwest Interior Forest South

1.5.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	10	204
SRES B1	95th	20	2328
SRES A1B	50th	10	264
SRES A1B	95th	20	2337
SRES A2	50th	10	208
SRES A2	95th	20	2355

1.5.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	11	258
SRES B1	95th	20	2064
SRES A1B	50th	10	167
SRES A1B	95th	18	1355
SRES A2	50th	10	430
SRES A2	95th	22	12523

1.5.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	15.8	26.5
SRES B1	95th	2.3	-11.3
SRES A1B	50th	-5.0	-36.7
SRES A1B	95th	-7.9	-42.0
SRES A2	50th	10.5	106.7
SRES A2	95th	10.2	431.8

1.6 Western Alaska

1.6.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	8	336
SRES B1	95th	17	7533
SRES A1B	50th	9	714
SRES A1B	95th	17	7735
SRES A2	50th	8	332
SRES A2	95th	17	7315

1.6.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	8	802
SRES B1	95th	17	8400
SRES A1B	50th	7	344
SRES A1B	95th	16	9185
SRES A2	50th	8	929
SRES A2	95th	16	10729

1.6.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	6.2	138.7
SRES B1	95th	-2.6	11.5
SRES A1B	50th	-22.2	-51.8
SRES A1B	95th	-7.9	18.8
SRES A2	50th	6.2	179.8
SRES A2	95th	-6.0	46.7

2 Percentile fire trends by scenario

The below graph relates to figure 8.2 in the original document. This uses strictly ALFRESCO output.

2.1 Alaska

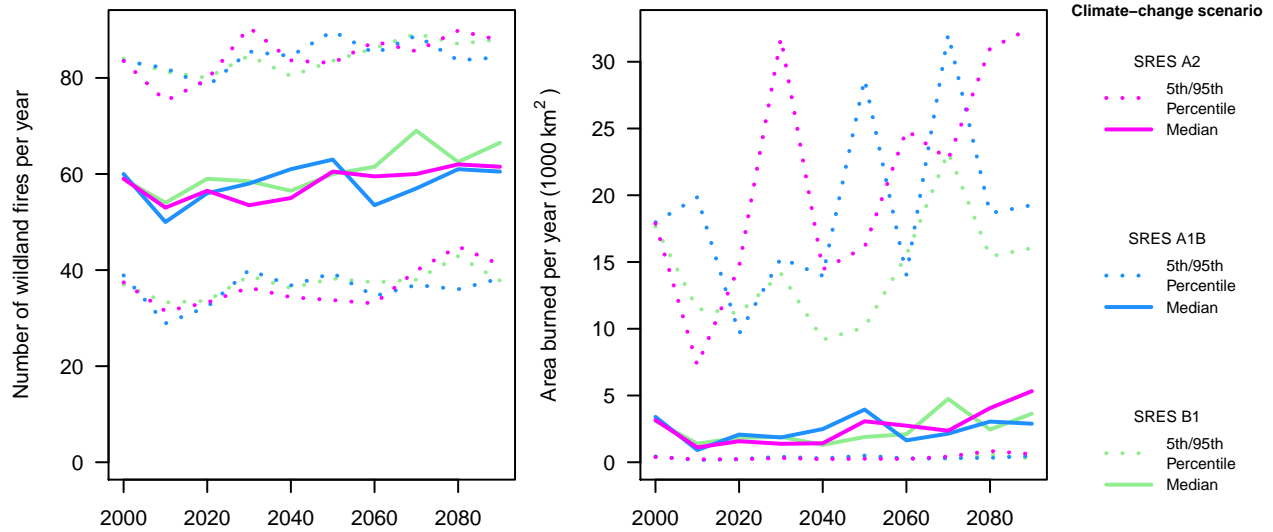


Figure 1: Alaska

All five following separate LCC graphs relate to figure 8.3 in the original document. This uses strictly ALFRESCO output.

2.2 Arctic

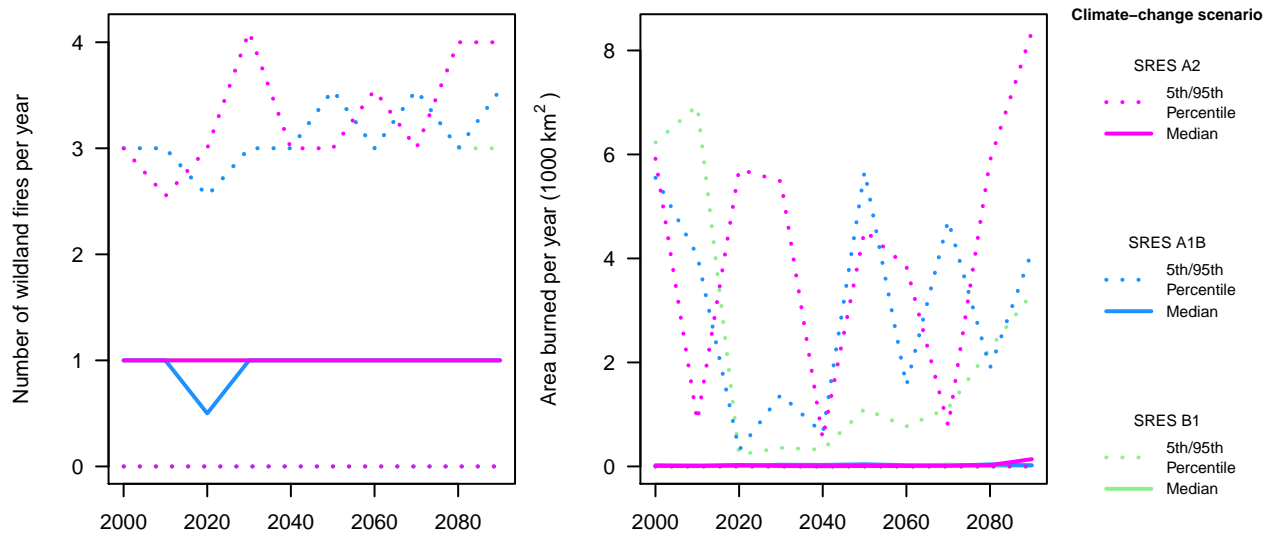


Figure 2: Arctic

2.3 North Pacific

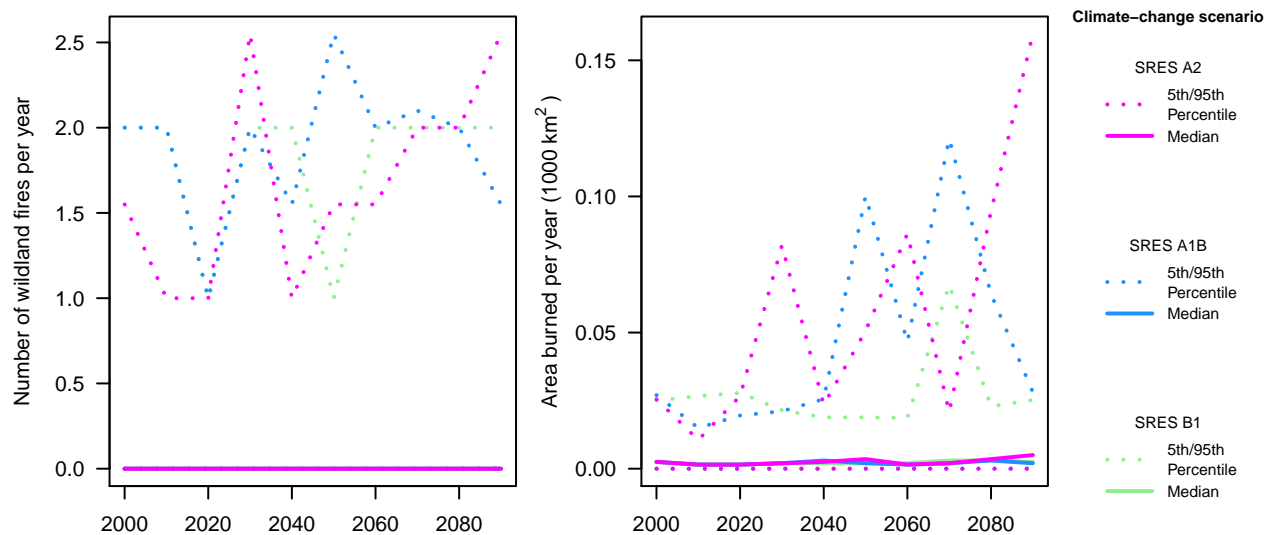


Figure 3: North Pacific

2.4 Northwest Interior Forest North

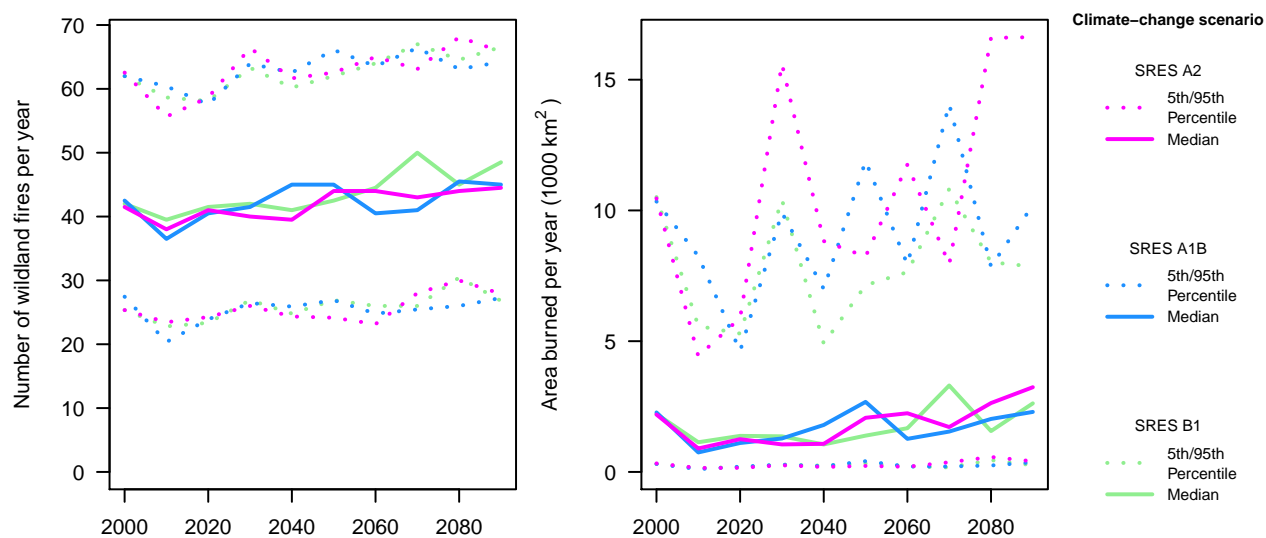


Figure 4: Northwest Interior Forest North

2.5 Northwest Interior Forest South

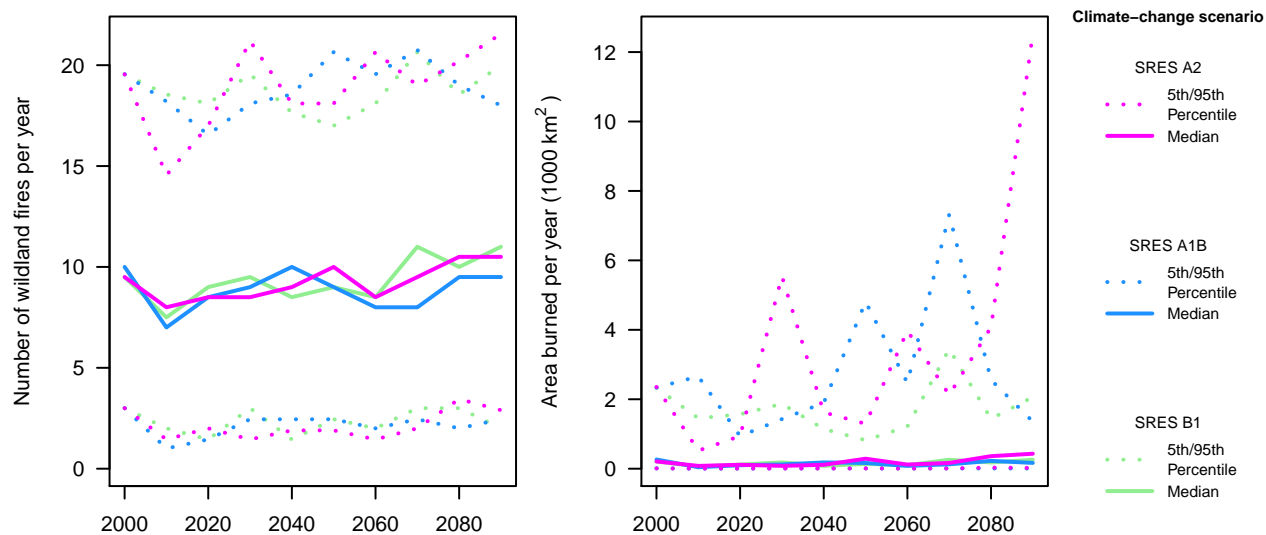


Figure 5: Northwest Interior Forest South

2.6 Western Alaska

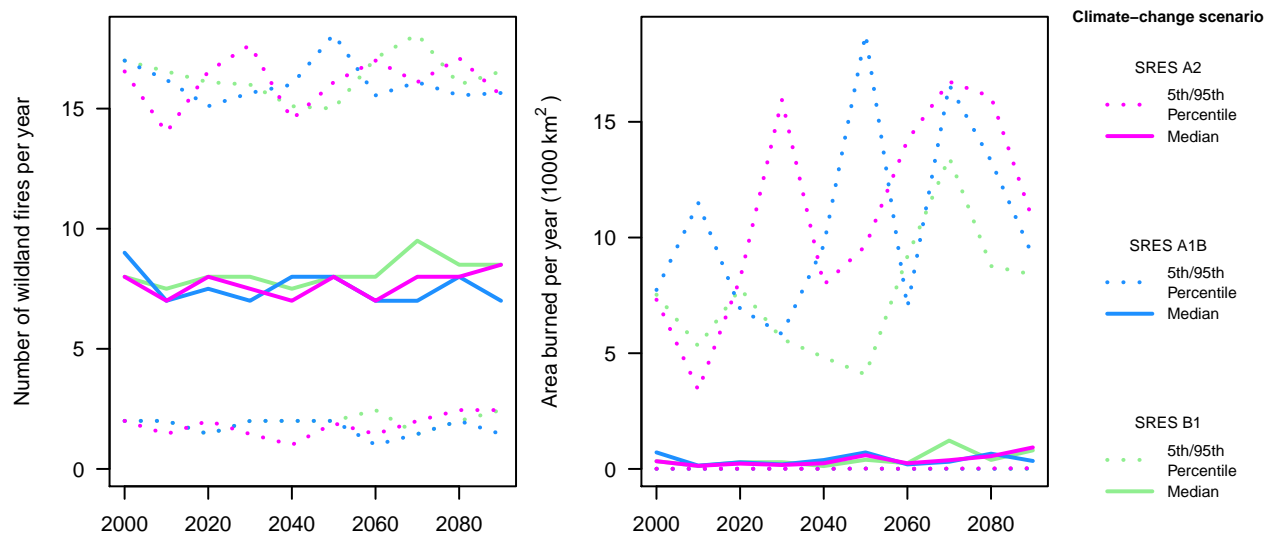


Figure 6: Western Alaska