

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	60	3254
SRES B1	95th	85	18117
SRES A1B	50th	60	3092
SRES A1B	95th	84	17088
SRES A2	50th	59	3166
SRES A2	95th	85	17688

1.1.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	52	2477
SRES B1	95th	76	12062
SRES A1B	50th	55	4998
SRES A1B	95th	83	25946
SRES A2	50th	52	3300
SRES A2	95th	81	23008

1.1.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-12.5	-23.9
SRES B1	95th	-10.5	-33.4
SRES A1B	50th	-7.6	61.6
SRES A1B	95th	-1.4	51.8
SRES A2	50th	-11.9	4.2
SRES A2	95th	-5.2	30.1

1.2 Arctic

1.2.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	16
SRES B1	95th	3	6568
SRES A1B	50th	1	10
SRES A1B	95th	3	5801
SRES A2	50th	1	10
SRES A2	95th	3	5437

1.2.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	35
SRES B1	95th	3	1432
SRES A1B	50th	1	218
SRES A1B	95th	4	7891
SRES A2	50th	1	56
SRES A2	95th	3	5594

1.2.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0.0	118.8
SRES B1	95th	0.0	-78.2
SRES A1B	50th	0.0	2080.0
SRES A1B	95th	18.3	36.0
SRES A2	50th	0.0	460.0
SRES A2	95th	0.0	2.9

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	20
SRES A1B	50th	0	2
SRES A1B	95th	2	26
SRES A2	50th	0	2
SRES A2	95th	2	23

1.3.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0	3
SRES B1	95th	2	32
SRES A1B	50th	0	6
SRES A1B	95th	3	262
SRES A2	50th	0	4
SRES A2	95th	3	122

1.3.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-	-
SRES B1	95th	29.03	60
SRES A1B	50th	-	-
SRES A1B	95th	64.52	907.69
SRES A2	50th	-	-
SRES A2	95th	27.5	430.43

1.4 Northwest Interior Forest North

1.4.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	42	2296
SRES B1	95th	62	10314
SRES A1B	50th	42	2164
SRES A1B	95th	63	10350
SRES A2	50th	41	2186
SRES A2	95th	63	10364

1.4.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	38	1754
SRES B1	95th	57	8006
SRES A1B	50th	41	3097
SRES A1B	95th	62	12474
SRES A2	50th	36	2136
SRES A2	95th	60	12716

1.4.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-8.3	-23.6
SRES B1	95th	-7.6	-22.4
SRES A1B	50th	-1.2	43.1
SRES A1B	95th	-0.6	20.5
SRES A2	50th	-11.0	-2.3
SRES A2	95th	-4.8	22.7

1.5 Northwest Interior Forest South

1.5.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	10	202
SRES B1	95th	20	2365
SRES A1B	50th	10	206
SRES A1B	95th	20	2234
SRES A2	50th	10	210
SRES A2	95th	20	2364

1.5.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	9	149
SRES B1	95th	17	1290
SRES A1B	50th	9	306
SRES A1B	95th	19	8673
SRES A2	50th	8	205
SRES A2	95th	18	4692

1.5.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-5.3	-26.2
SRES B1	95th	-15.8	-45.5
SRES A1B	50th	-5.3	48.5
SRES A1B	95th	-2.3	288.2
SRES A2	50th	-15.8	-2.4
SRES A2	95th	-10.2	98.5

1.6 Western Alaska

1.6.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	8	338
SRES B1	95th	17	7954
SRES A1B	50th	8	314
SRES A1B	95th	17	7529
SRES A2	50th	8	318
SRES A2	95th	17	7034

1.6.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	6	280
SRES B1	95th	14	5293
SRES A1B	50th	8	1332
SRES A1B	95th	15	10498
SRES A2	50th	7	844
SRES A2	95th	15	10639

1.6.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-18.8	-17.2
SRES B1	95th	-15.4	-33.5
SRES A1B	50th	-11.8	324.2
SRES A1B	95th	-9.4	39.4
SRES A2	50th	-17.6	165.4
SRES A2	95th	-14.4	51.2

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

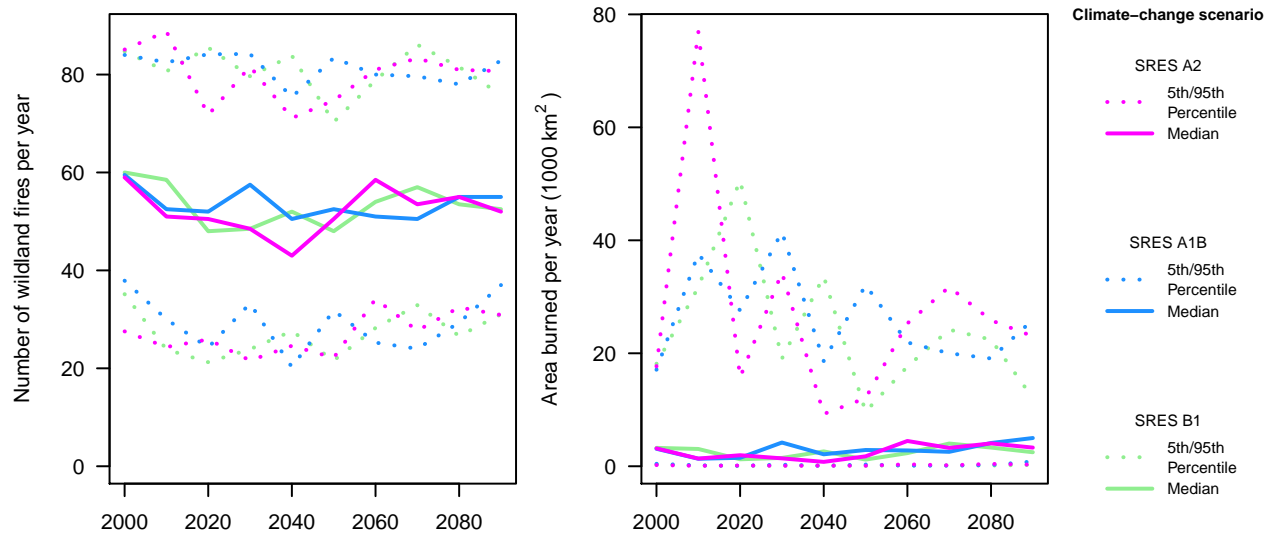


Figure 1: Alaska

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

2.2 Arctic

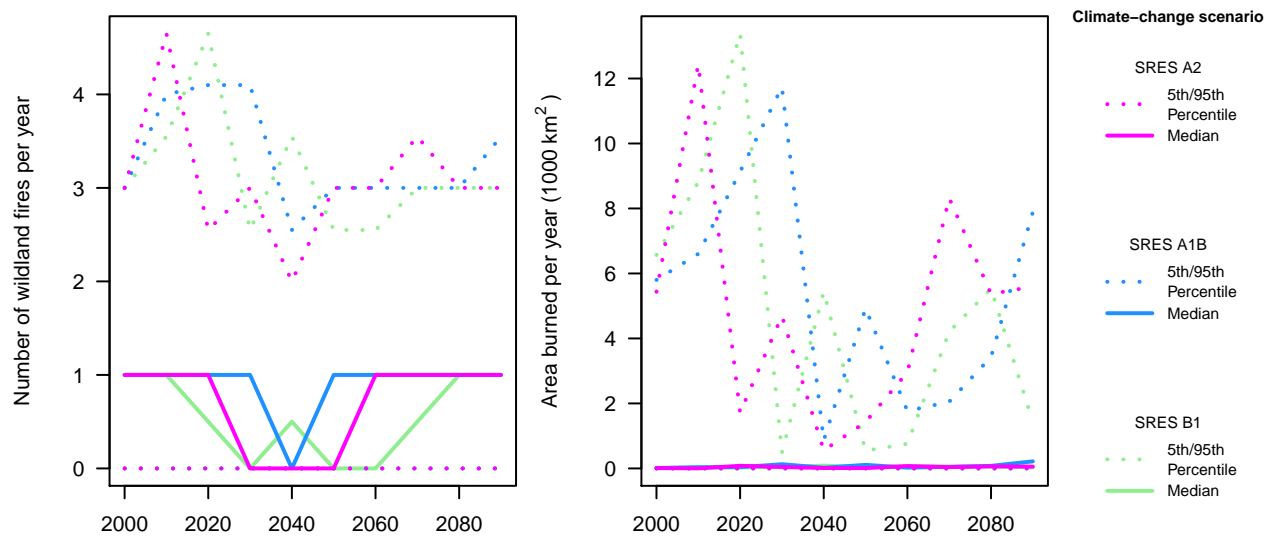


Figure 2: Arctic

2.3 North Pacific

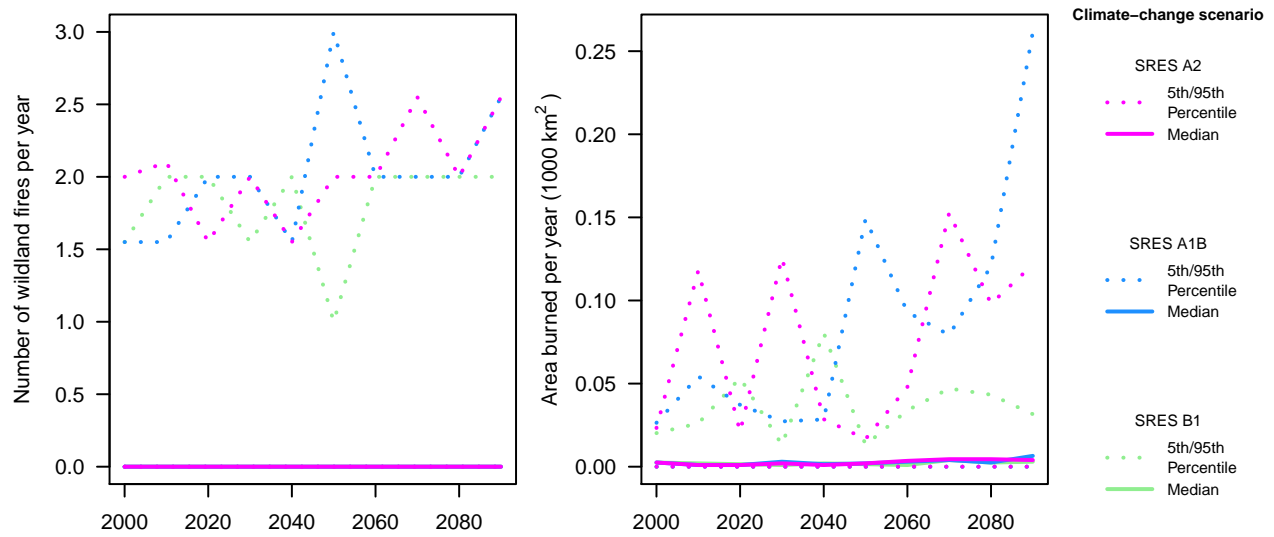


Figure 3: North Pacific

2.4 Northwest Interior Forest North

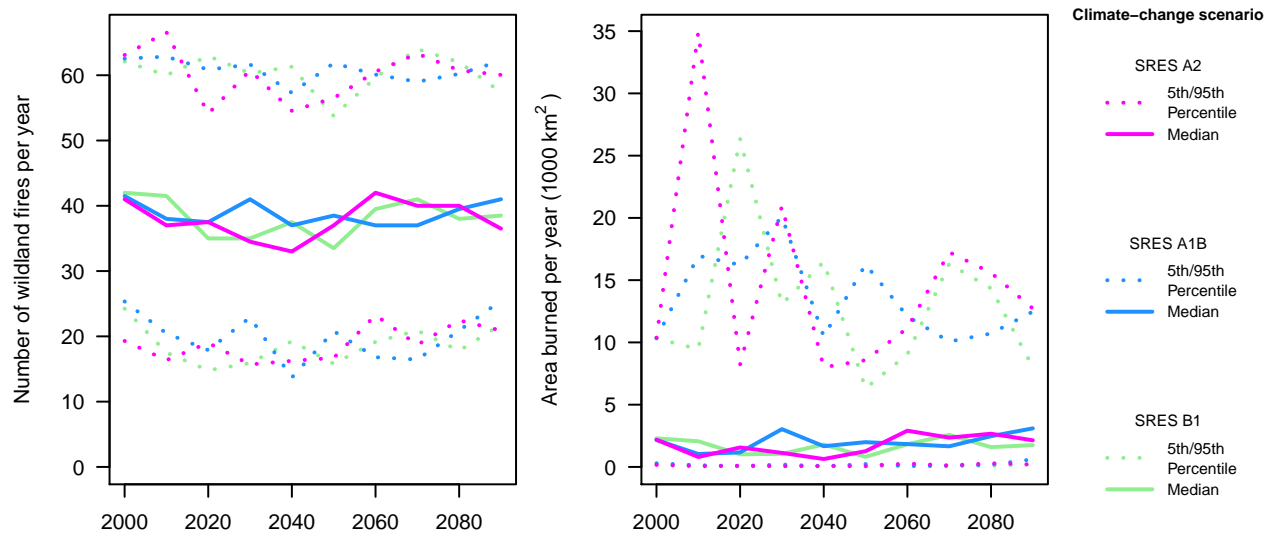


Figure 4: Northwest Interior Forest North

2.5 Northwest Interior Forest South

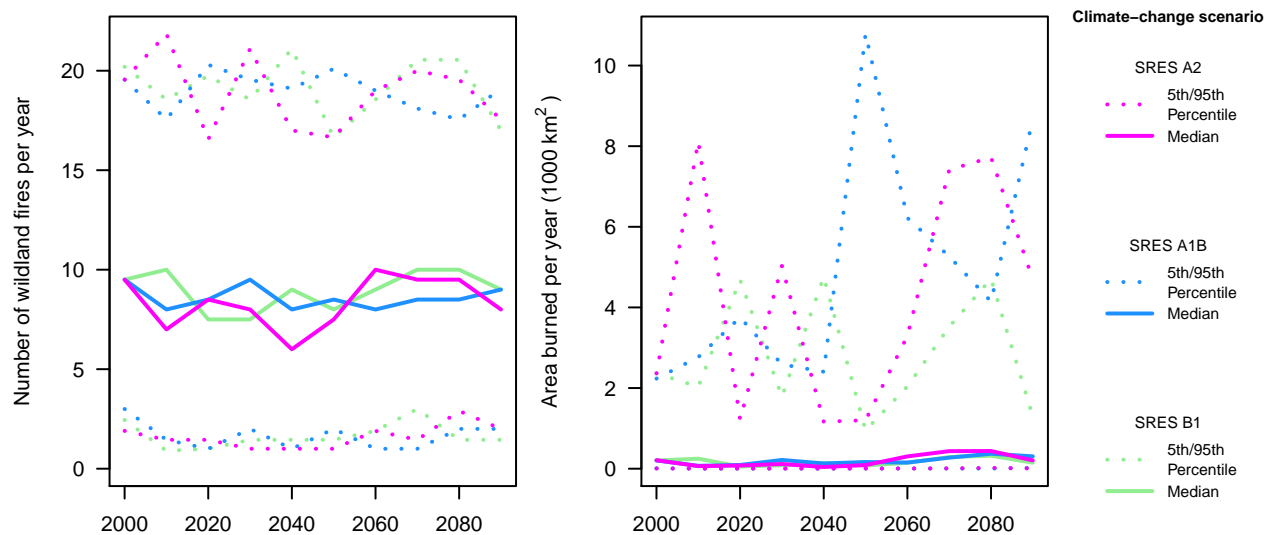


Figure 5: Northwest Interior Forest South

2.6 Western Alaska

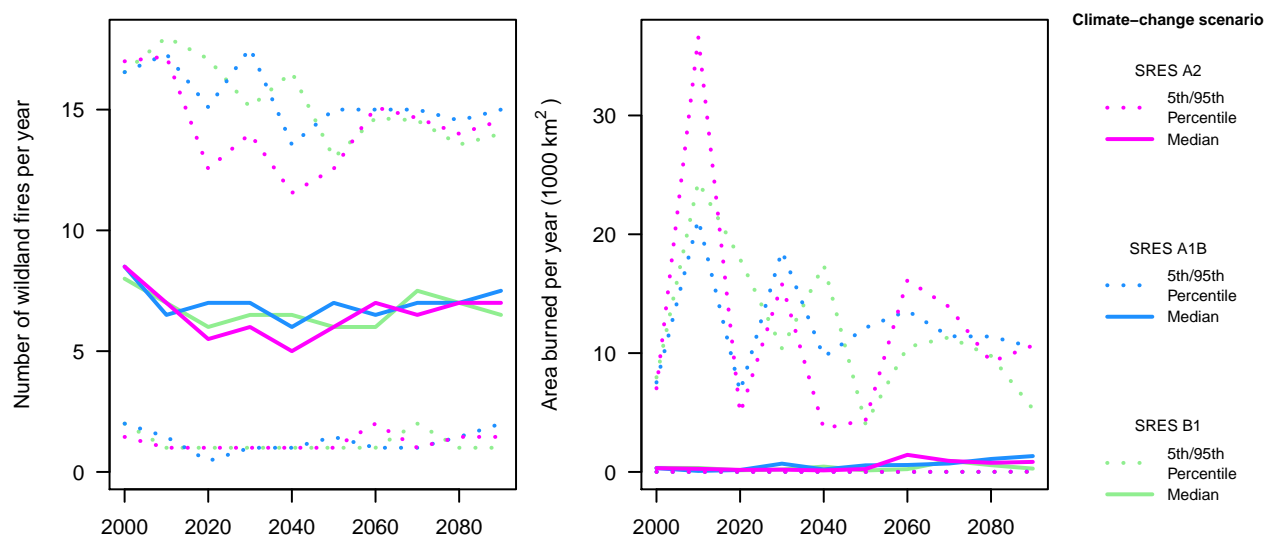


Figure 6: Western Alaska