Projected fire change 2000 - 2099

Unvetted preliminary rush draft from developmental code

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July 24, 2015

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	3033
SRES B1	95th	83	17320
SRES A1B	50th	60	3256
SRES A1B	95th	82	17364
SRES A2	50th	59	3041
SRES A2	95th	83	17459

1.1.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	66	3491
SRES B1	95th	86	15369
SRES A1B	50th	60	2840
SRES A1B	95th	84	18716
SRES A2	50th	62	5229
SRES A2	95th	86	31178

1.1.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	12.7	15.1
SRES B1	95th	4.2	-11.3
SRES A1B	50th	0.8	-12.8
SRES A1B	95th	2.3	7.8
SRES A2	50th	4.2	72.0
SRES A2	95th	3.9	78.6

1.2 Arctic

1.2.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	1
SRES B1	95th	3	6117
SRES A1B	50th	1	1
SRES A1B	95th	3	5959
SRES A2	50th	1	0
SRES A2	95th	3	5971

1.2.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	2
SRES B1	95th	3	3344
SRES A1B	50th	1	2
SRES A1B	95th	4	3982
SRES A2	50th	1	36
SRES A2	95th	4	7899

1.2.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0.0	100.0
SRES B1	95th	0.0	-45.3
SRES A1B	50th	0.0	100.0
SRES A1B	95th	18.3	-33.2
SRES A2	50th	0.0	Inf
SRES A2	95th	18.3	32.3

1.3 North Pacific

1.3.1 Historical fire

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

1.3.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0	0
SRES B1	95th	2	35
SRES A1B	50th	0	0
SRES A1B	95th	1	19
SRES A2	50th	0	1
SRES A2	95th	2	177

1.3.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-	-
SRES B1	95th	0	40
SRES A1B	50th	-	-
SRES A1B	95th	-35.48	-24
SRES A2	50th	-	-
SRES A2	95th	29.03	608

1.4 Northwest Interior Forest North

1.4.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	42	2112
SRES B1	95th	60	10043
SRES A1B	50th	42	2156
SRES A1B	95th	61	10080
SRES A2	50th	42	2114
SRES A2	95th	60	10083

1.4.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	49	2604
SRES B1	95th	65	7524
SRES A1B	50th	45	2260
SRES A1B	95th	62	9712
SRES A2	50th	44	3138
SRES A2	95th	64	15851

1.4.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	16.7	23.3
SRES B1	95th	8.2	-25.1
SRES A1B	50th	7.1	4.8
SRES A1B	95th	2.9	-3.6
SRES A2	50th	6.0	48.4
SRES A2	95th	6.1	57.2

1.5 Northwest Interior Forest South

1.5.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	10	169
SRES B1	95th	19	2182
SRES A1B	50th	10	220
SRES A1B	95th	19	2205
SRES A2	50th	10	170
SRES A2	95th	19	2185

1.5.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	11	239
SRES B1	95th	20	1955
SRES A1B	50th	9	146
SRES A1B	95th	17	1299
SRES A2	50th	10	365
SRES A2	95th	21	12624

1.5.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	15.8	41.4
SRES B1	95th	5.4	-10.4
SRES A1B	50th	-10.0	-33.6
SRES A1B	95th	-10.8	-41.1
SRES A2	50th	10.5	114.7
SRES A2	95th	10.8	477.8

1.6 Western Alaska

1.6.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	8	242
SRES B1	95th	16	6611
SRES A1B	50th	8	384
SRES A1B	95th	16	7284
SRES A2	50th	8	240
SRES A2	95th	16	6584

1.6.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	8	516
SRES B1	95th	16	7992
SRES A1B	50th	7	186
SRES A1B	95th	14	8915
SRES A2	50th	8	538
SRES A2	95th	15	10111

1.6.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	6.2	113.2
SRES B1	95th	-0.6	20.9
SRES A1B	50th	-17.6	-51.6
SRES A1B	95th	-12.4	22.4
SRES A2	50th	0.0	124.2
SRES A2	95th	-6.8	53.6

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

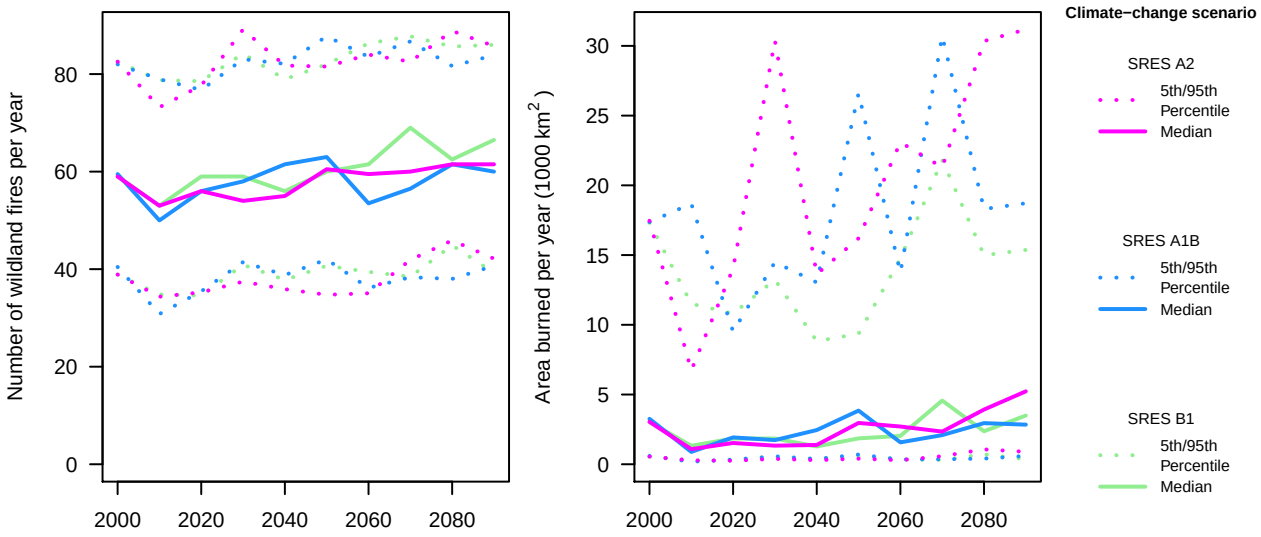

Figure 1: Alaska

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

2.2 Arctic

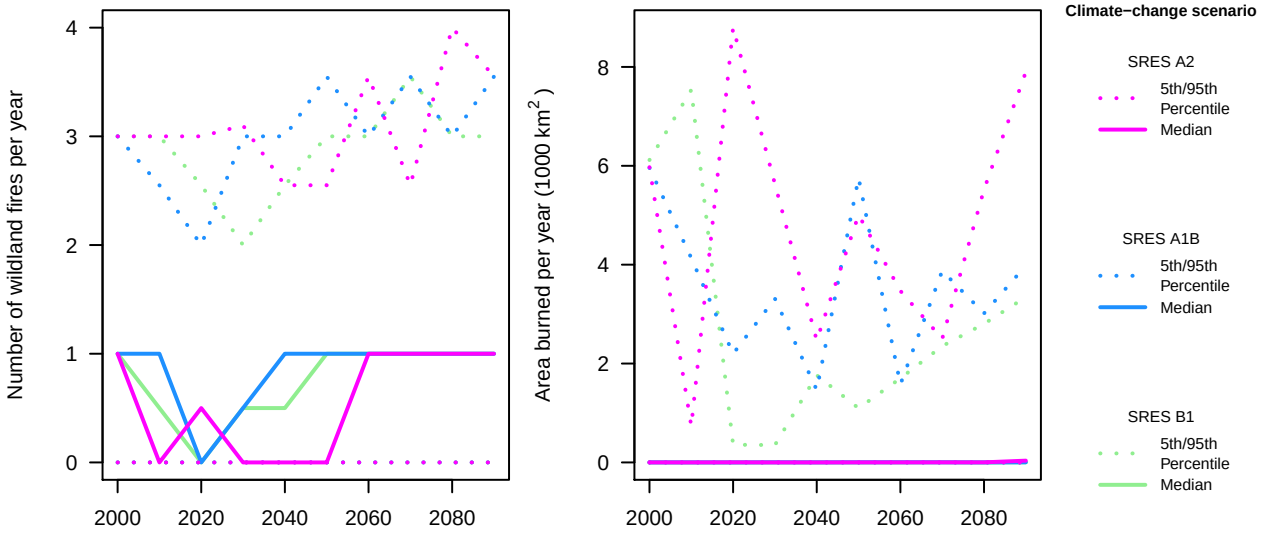

Figure 2: Arctic

2.3 North Pacific

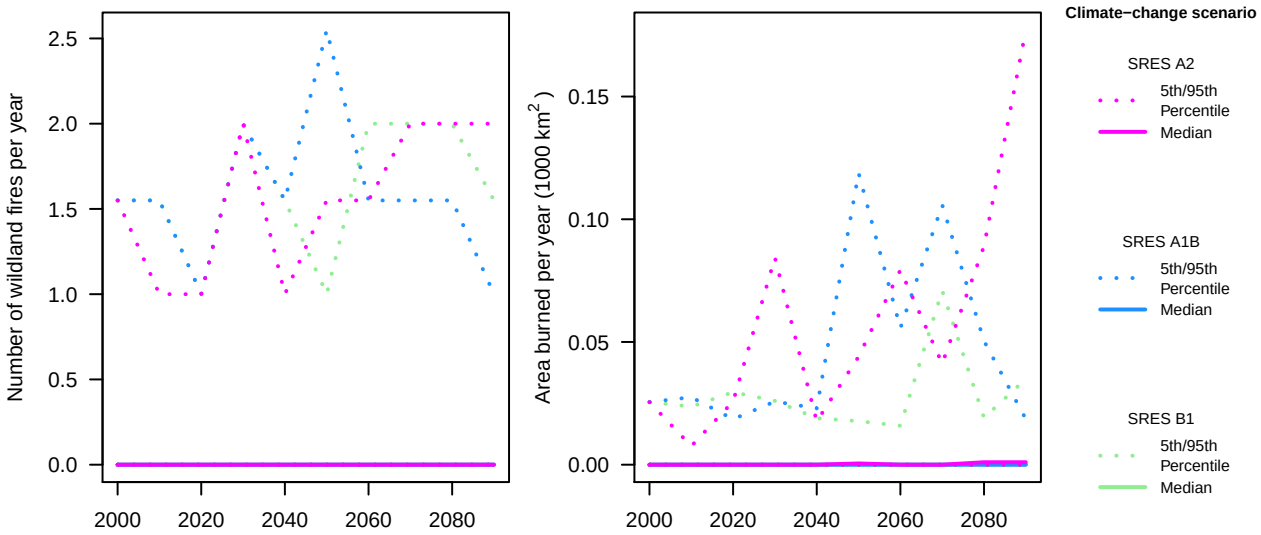

Figure 3: North Pacific

2.4 Northwest Interior Forest North

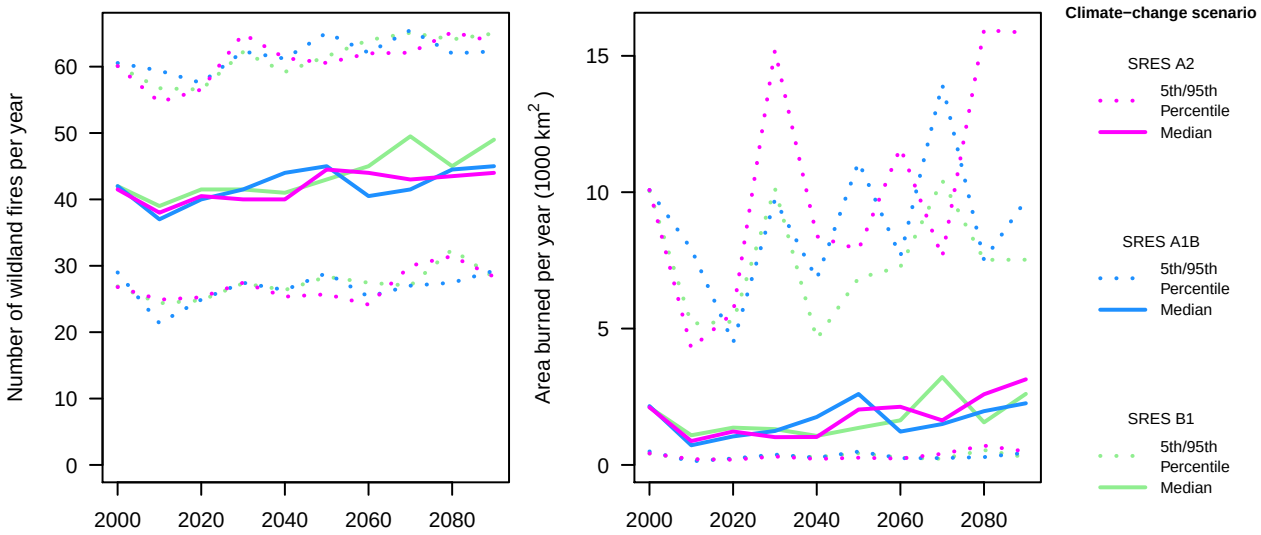

Figure 4: Northwest Interior Forest North

2.5 Northwest Interior Forest South

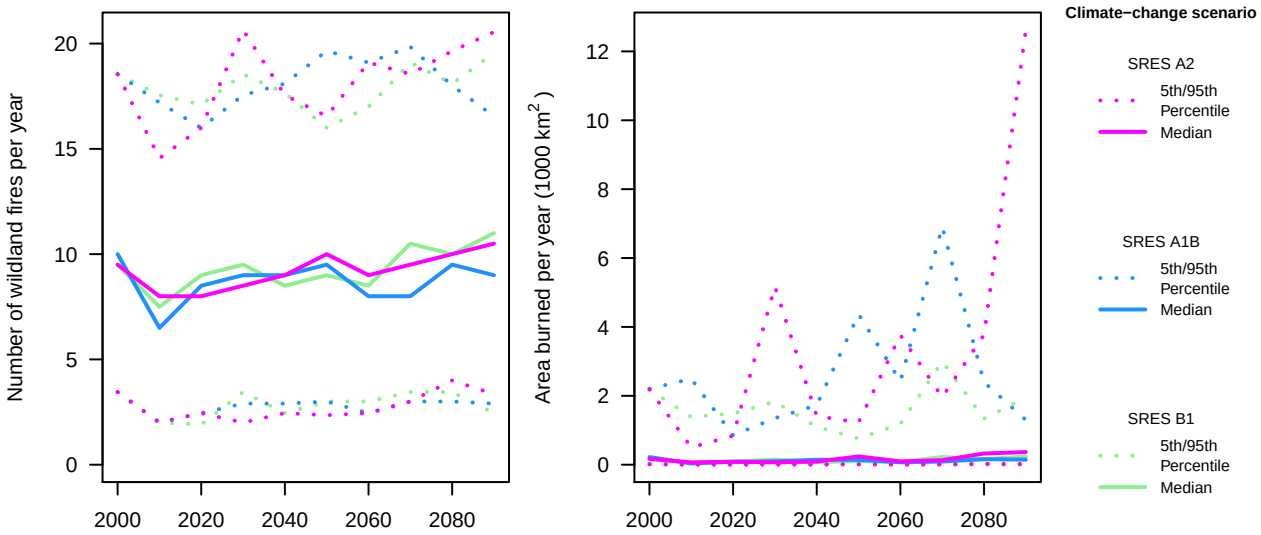

Figure 5: Northwest Interior Forest South

2.6 Western Alaska

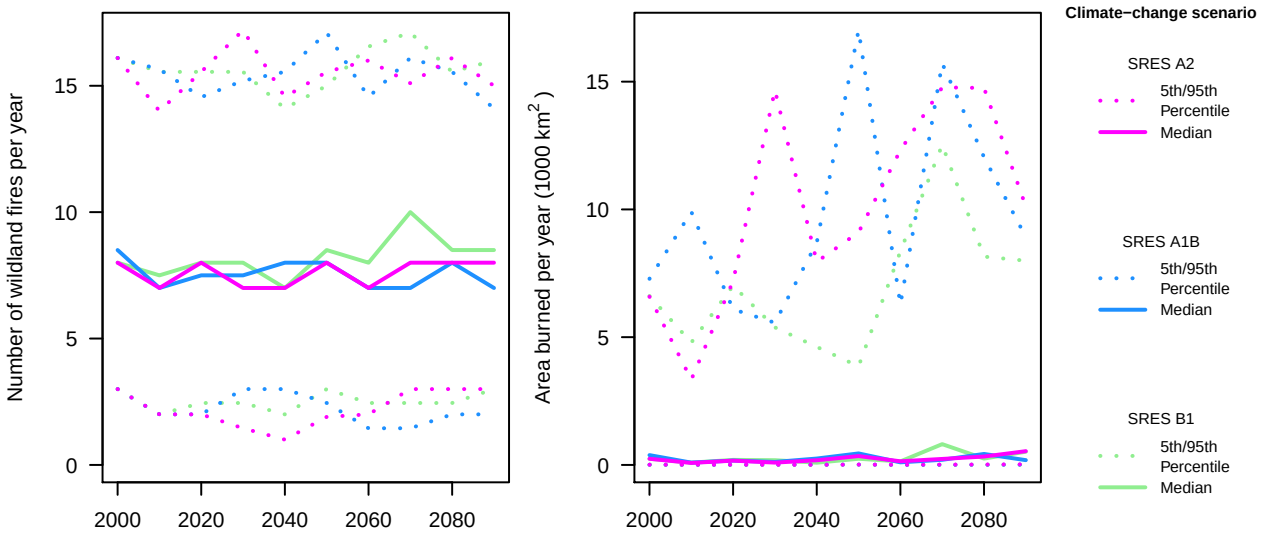

Figure 6: Western Alaska