

# 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	3398
SRES B1	95th	86	18131
SRES A1B	50th	59	3066
SRES A1B	95th	85	17486
SRES A2	50th	60	3242
SRES A2	95th	84	17962

#### 1.1.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	60	2929
SRES B1	95th	83	19079
SRES A1B	50th	62	5441
SRES A1B	95th	88	33039
SRES A2	50th	66	3465
SRES A2	95th	89	15350

#### 1.1.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0.8	-13.8
SRES B1	95th	-2.6	5.2
SRES A1B	50th	4.2	77.5
SRES A1B	95th	4.4	89.0
SRES A2	50th	9.2	6.9
SRES A2	95th	5.2	-14.5

## 1.2 Arctic

### 1.2.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	22
SRES B1	95th	3	5935
SRES A1B	50th	1	10
SRES A1B	95th	4	5471
SRES A2	50th	1	10
SRES A2	95th	3	6347

### 1.2.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	1	24
SRES B1	95th	4	4207
SRES A1B	50th	1	134
SRES A1B	95th	4	8263
SRES A2	50th	1	12
SRES A2	95th	4	3068

### 1.2.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0.0	9.1
SRES B1	95th	18.3	-29.1
SRES A1B	50th	0.0	1240.0
SRES A1B	95th	0.0	51.0
SRES A2	50th	0.0	20.0
SRES A2	95th	18.3	-51.7

### 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	26
SRES A1B	50th	0	2
SRES A1B	95th	2	25
SRES A2	50th	0	2
SRES A2	95th	2	19

#### 1.3.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	0	2
SRES B1	95th	2	22
SRES A1B	50th	0	5
SRES A1B	95th	3	186
SRES A2	50th	0	4
SRES A2	95th	2	44

#### 1.3.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-	-
SRES B1	95th	-22.5	-15.38
SRES A1B	50th	-	-
SRES A1B	95th	64.52	644
SRES A2	50th	-	-
SRES A2	95th	0	131.58

## 1.4 Northwest Interior Forest North

### 1.4.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	42	2255
SRES B1	95th	62	10642
SRES A1B	50th	42	2203
SRES A1B	95th	62	10536
SRES A2	50th	42	2270
SRES A2	95th	61	10507

### 1.4.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	46	2223
SRES B1	95th	65	10164
SRES A1B	50th	45	3292
SRES A1B	95th	65	16612
SRES A2	50th	47	2527
SRES A2	95th	66	8025

### 1.4.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	7.1	-1.4
SRES B1	95th	4.4	-4.5
SRES A1B	50th	8.4	49.4
SRES A1B	95th	4.4	57.7
SRES A2	50th	10.6	11.3
SRES A2	95th	7.3	-23.6

## 1.5 Northwest Interior Forest South

### 1.5.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	10	268
SRES B1	95th	20	2240
SRES A1B	50th	10	204
SRES A1B	95th	20	2308
SRES A2	50th	10	198
SRES A2	95th	20	2346

### 1.5.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	9	164
SRES B1	95th	18	1364
SRES A1B	50th	10	411
SRES A1B	95th	22	12503
SRES A2	50th	11	268
SRES A2	95th	20	2139

### 1.5.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-14.3	-38.8
SRES B1	95th	-10.2	-39.1
SRES A1B	50th	10.5	101.5
SRES A1B	95th	10.2	441.7
SRES A2	50th	15.8	35.4
SRES A2	95th	-1.0	-8.8

## 1.6 Western Alaska

### 1.6.1 Historical fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	9	736
SRES B1	95th	17	7672
SRES A1B	50th	8	316
SRES A1B	95th	17	6787
SRES A2	50th	8	364
SRES A2	95th	17	8077

### 1.6.2 Projected fire

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	7	364
SRES B1	95th	16	9236
SRES A1B	50th	8	936
SRES A1B	95th	16	10232
SRES A2	50th	8	936
SRES A2	95th	17	8516

### 1.6.3 Percent change

Climate-change scenario	Percentile	Ignitions	Area burned
SRES B1	50th	-22.2	-50.5
SRES B1	95th	-7.9	20.4
SRES A1B	50th	-5.9	196.2
SRES A1B	95th	-5.9	50.8
SRES A2	50th	6.2	157.1
SRES A2	95th	0.0	5.4

## 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

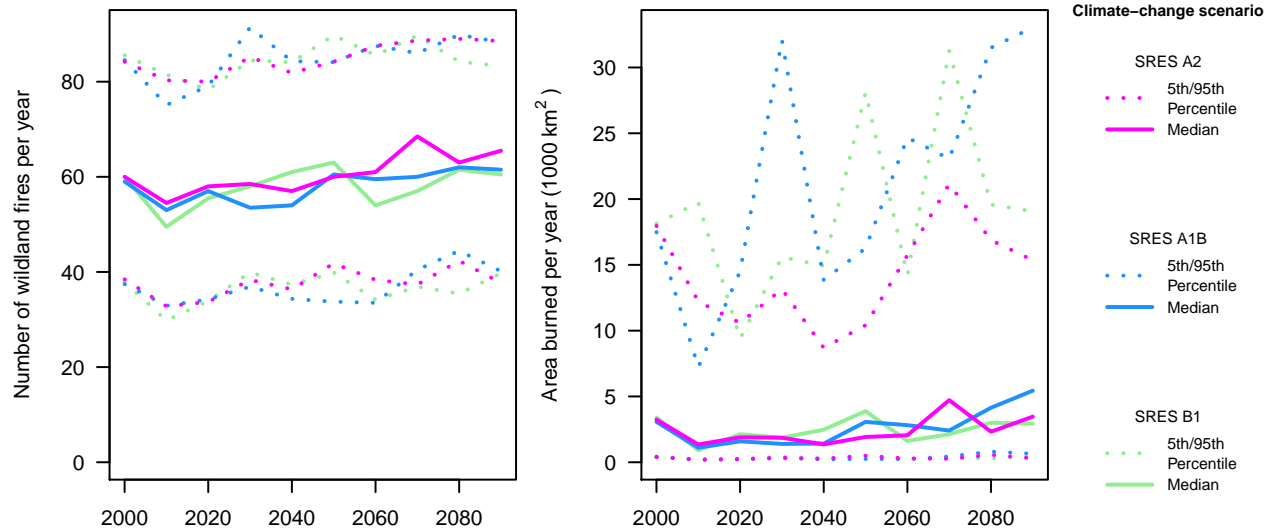


Figure 1: Alaska

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

### 2.2 Arctic

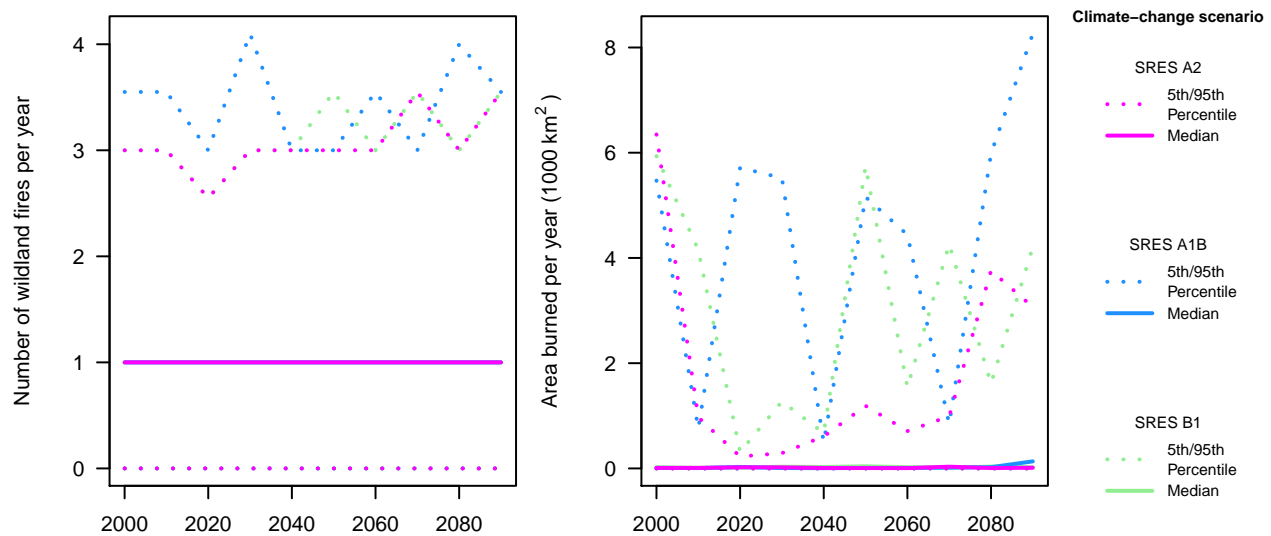


Figure 2: Arctic

## 2.3 North Pacific

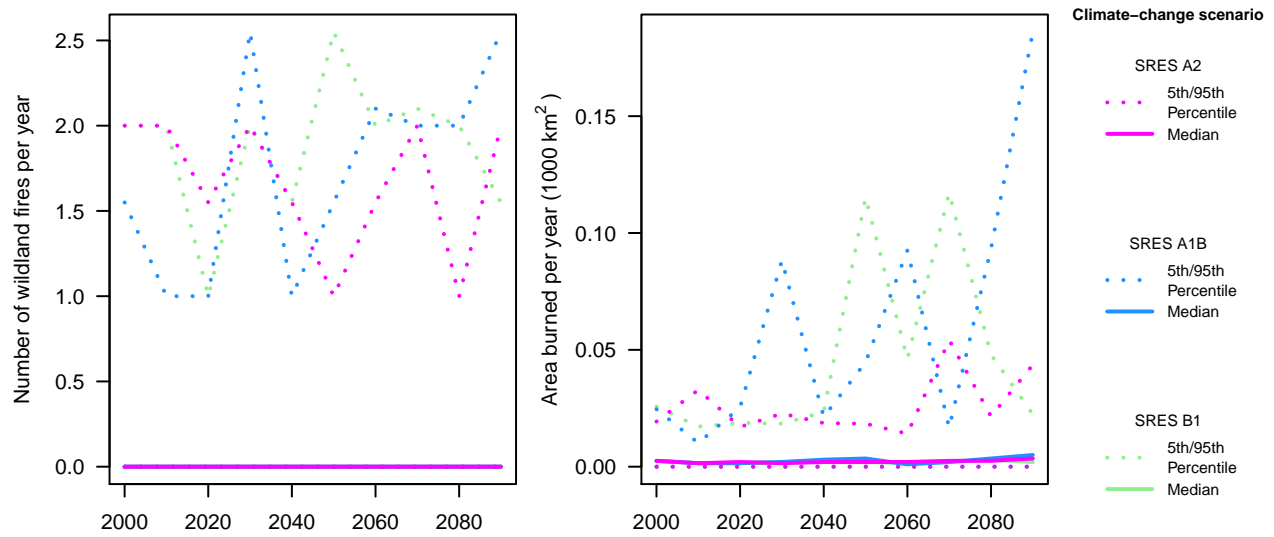


Figure 3: North Pacific

## 2.4 Northwest Interior Forest North

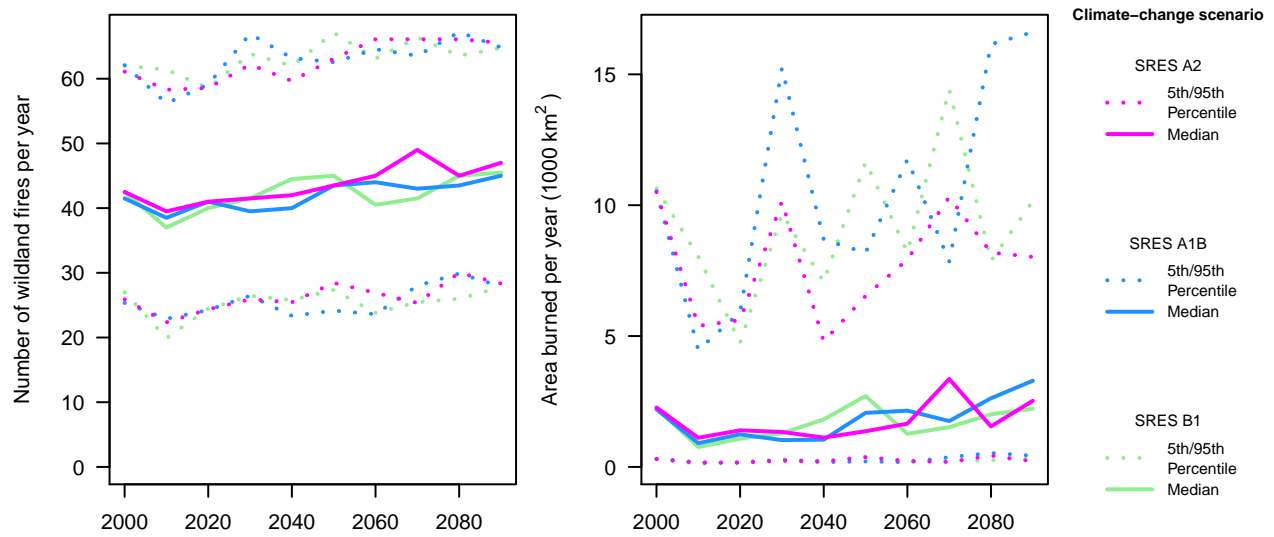


Figure 4: Northwest Interior Forest North



## 2.5 Northwest Interior Forest South

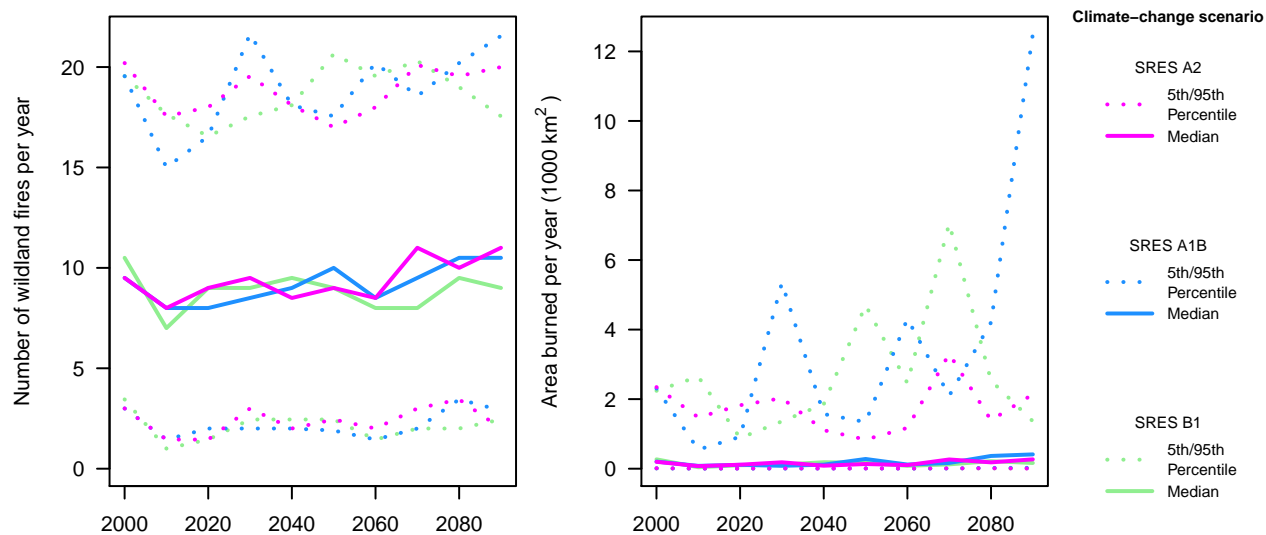


Figure 5: Northwest Interior Forest South

## 2.6 Western Alaska

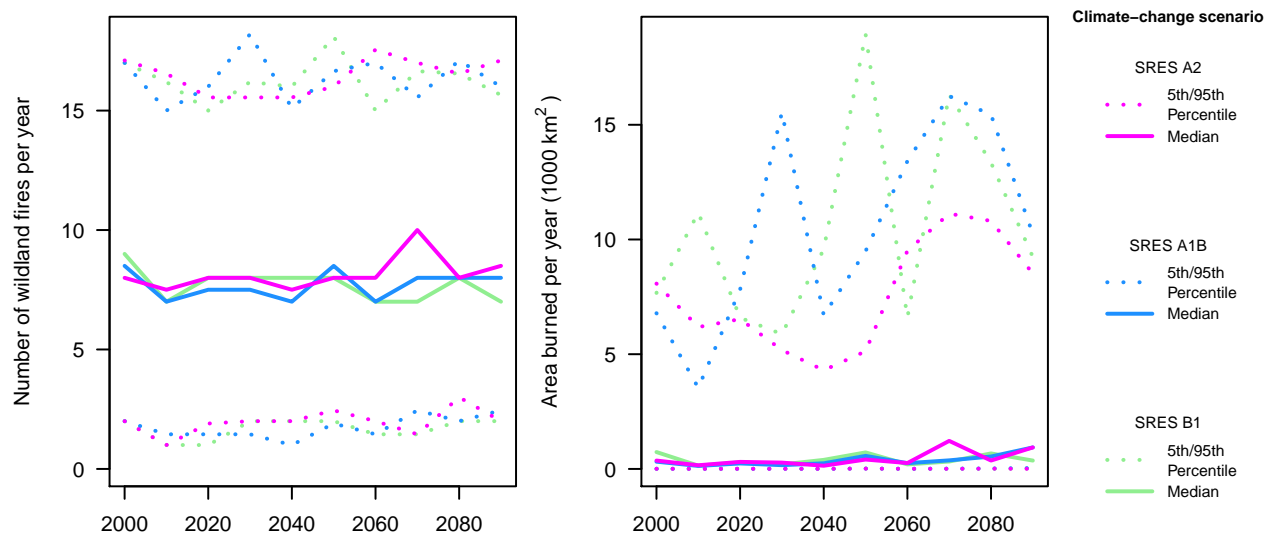


Figure 6: Western Alaska