

**Supplementary material**

**Historical fire–climate relationships of upper elevation fire regimes in the south-western United States**

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**Table S1. All fire, synchronous fire, and stand-replacing fire dates from upper elevation sites (>2700 m) in the upper Rio Grande Basin, and Mogollon Plateau and Sky Islands**

Synchronous fire years (two or more sites recording fire on the same year) in bold. Fire scar data from the Upper Rio Grande Basin are from Margolis *et al.* (2007), and data from the Mogollon Plateau and Sky Islands are from Margolis *et al.* (2011), except for PIN, which are from Grissino-Mayer *et al.* (1995)

Site	Stand-replacing fires	All additional fires
Upper Rio Grande Basin		
GAR	<b>1873</b>	
SQU	1876	
CHA	<b>1851</b>	1880
COL	<b>1851</b>	
VES	<b>1851, 1879</b>	<b>1748</b>
JAR	–	<b>1847, 1860, 1861, 1870, 1873</b>
POL	<b>1861</b>	
JIC	<b>1842</b>	
SBA	<b>1861</b>	
CAN	<b>1861</b> , 1893	
SKI	<b>1861, 1879</b>	<b>1806</b>
CRS	1901	
Mogollon Plateau and Sky Islands		
CHI		1654, 1661, <b>1685</b> , 1688, 1697, 1698, 1700, 1701, 1703, <b>1709</b> , 1711, <b>1716</b> , 1721, 1723, 1725, 1727, <b>1733</b> , 1737, 1739, <b>1748</b> , 1749, <b>1752, 1760</b> , 1763, <b>1765, 1773</b> , 1775, 1779, <b>1785</b> , 1787, 1789, 1794, 1798, 1800, 1805, <b>1806</b> , 1807, 1817, <b>1818</b> , 1822, 1826, 1835, 1838, <b>1840</b> , 1841, 1848, 1849, <b>1851</b> , 1859, <b>1863</b> , 1868, 1875, 1877, 1883, 1886, 1894, 1903, <b>1904</b>
GIL	<b>1904</b>	<b>1716, 1748, 1765, 1773</b>
PIN	<b>1685</b>	1623, 1648, 1668, 1670, 1674, 1687, 1691, 1696, <b>1709</b> , 1719, <b>1733</b> , 1745, <b>1748, 1752, 1760, 1773, 1785</b> , 1819, <b>1842, 1847</b> , 1858, <b>1863</b> , 1871
SFP	<b>1879</b>	<b>1840, 1847, 1851, 1857, 1863</b>

## References

- Grissino-Mayer HD, Baisan CH, Swetnam TW (1995) Fire history in the Pinaleno Mountains of southeastern Arizona: effects of human-related disturbances. USDA Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-GTR-264. (Fort Collins, CO)
- Margolis EQ, Swetnam TW, Allen CD (2007) A stand-replacing fire history in upper montane forests of the Southern Rocky Mountains. *Canadian Journal of Forest Research* **37**, 2227–2241. doi:10.1139/X07-079
- Margolis EQ, Swetnam TW, Allen CD (2011) Historical stand-replacing fire in upper montane forests of the Madrean Sky Islands and Mogollon Plateau, southwestern USA. *Fire Ecology* **7**, 88–107. doi:10.4996/fireecology.0703088