



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

RESEARCH TRIANGLE PARK, NC 27711

OFFICE OF
AIR QUALITY PLANNING
AND STANDARDS

06/03/2020

TECHNICAL ADDENDUM

SUBJECT: Technical addendum including updated visibility data through 2018 for the memo titled "Recommendation for the Use of Patched and Substituted Data and Clarification of Data Completeness for Tracking Visibility Progress for the Second Implementation Period of the Regional Haze Program"

FROM: Richard A. Wayland, Division Director
Air Quality Assessment Division

A handwritten signature in black ink that reads "Richard A. Wayland". The signature is written in a cursive, flowing style.

TO: Regional Air Division Directors, Regions 1 – 10

Table 1: Summary of the baseline, most recent, and natural visibility condition estimates on the 20% clearest and 20% most impaired days for each IMPROVE site representing a Class I area in the Regional Haze Program

Site	20% Clearest Days			20% Most Impaired Days			e3 (Mm ⁻¹)	
	Baseline Visibility Condition (2000-2004)	Most Recent Visibility Condition (2014-2018)	Natural Conditions (20% Clearest Days)	Baseline Visibility Condition (2000-2004)	Most Recent Visibility Condition (2014-2018)	Natural Conditions (20% Most Impaired Days)	carbon	dust
ACAD1	8.78	6.58	4.66	22.01	14.54	10.39	10.44	3.11
AGTI1	9.58	7.10	2.93	21.60	16.34	7.66	10.85	8.86
BADL1	6.89	5.39	2.86	14.98	12.33	6.09	9.17	7.49
BALD1	2.98	1.78	0.54	8.80	7.29	4.18	6.65	5.37
BAND1	4.96	3.02	1.29	9.70	8.44	4.59	5.60	4.36
BIBE1	5.78	5.17	1.62	15.57	14.06	5.33	7.60	8.59
BLIS1	2.52	1.82	0.38	10.06	9.31	4.91	11.14	2.84
BOAP1	6.28	4.59	2.16	11.61	10.47	5.39	9.38	7.83
BOWA1	6.50	4.48	3.48	18.43	13.96	9.09	10.86	2.92
BRCA1	2.77	1.46	0.57	8.42	6.60	4.08	6.13	4.26
BRID1	2.10	0.88	0.29	8.01	6.77	3.92	7.94	2.83
BRIG1	14.33	11.26	5.52	27.43	19.31	10.68	20.15	9.07
BRIS1 ^a	13.95	11.81	5.25	24.91	19.04	9.23	18.21	7.96
CAB1	3.62	2.46	1.48	10.73	9.87	5.64	13.14	4.13
CACR1	11.24	8.02	4.23	23.99	18.29	9.54	16.84	7.80
CANY1	3.75	2.20	1.05	8.79	6.76	4.13	5.53	5.02
CAP1	4.10	2.38	1.28	8.78	7.18	4.00	5.07	5.14
CHAS1	15.60	12.41	6.00	24.52	17.41	9.03	24.69	6.28
CHIR1	4.91	3.95	1.83	10.50	9.41	4.93	4.81	7.87
COHU1	13.73	8.10	4.42	29.12	17.37	9.88	18.17	3.98
CRLA1	1.69	1.05	0.10	9.36	7.98	5.16	8.67	2.37
CRMO1	4.31	2.68	1.73	11.91	8.50	4.97	7.26	4.72
DENA1	2.43	2.19	1.77	7.08	6.55	4.72	3.58	1.60
DOME1	5.07	4.44	1.18	17.20	15.14	6.19	14.13	11.58
DOSO1	12.28	6.68	3.64	28.29	17.65	8.92	13.57	3.40
EVER1	11.69	10.37	5.22	19.52	14.90	8.33	10.00	7.90
GAMO1	1.71	0.66	0.32	8.95	7.47	4.53	10.17	3.03
GICL1	3.33	2.07	0.52	8.96	7.58	4.20	5.73	4.40
GLAC1	7.22	5.38	2.43	15.89	13.77	6.90	22.24	7.50
GRCA2	2.18	1.52	0.31	7.98	6.87	4.16	6.19	4.74
GRGU1	7.65	4.99	3.73	21.88	13.07	9.78	12.07	3.23
GRSA1	4.50	2.74	1.24	9.66	8.02	4.45	8.01	6.69
GRSM1	13.58	8.35	4.62	29.11	17.21	10.05	16.09	4.48
GUMO1	5.92	4.73	0.99	14.60	12.64	4.83	6.25	12.95
HACR1 ^b	4.55	0.48	2.66	12.67	8.60	4.77	1.24	2.01
HAVO1	4.06	3.50	2.20	18.66	19.28	5.63	1.56	1.93
HECA1	5.52	4.00	2.52	16.51	12.33	6.57	13.88	5.00
HEGL1	12.84	9.71	4.69	25.17	18.72	9.30	20.30	6.84
HOOV1	1.44	1.05	0.07	8.93	7.65	4.90	8.92	4.00
IKBA1	5.40	4.16	1.92	11.19	9.47	5.22	6.78	6.14
ISLE1	6.77	5.30	3.72	19.63	15.54	10.17	12.05	4.22
JARB1	2.56	1.84	1.14	8.73	7.97	5.23	7.45	8.00
JARI1	14.21	9.47	4.39	28.08	17.89	9.47	26.22	2.94
JOSH1	6.08	4.69	1.68	17.74	12.87	6.09	7.82	9.81
KAIS1	2.29	1.55	0.04	12.93	10.98	6.06	11.16	5.19
KALM1	6.27	5.90	3.70	13.34	11.97	7.78	12.46	2.43
KPBO1 ^c	3.99	5.47	3.15	10.47	11.24	6.96	3.39	2.32
LABE1	3.21	2.50	1.30	11.29	9.67	6.18	10.38	3.81
LAVO1	2.66	2.20	1.00	11.47	10.23	6.10	12.36	2.59
LIGO1	11.11	7.61	4.07	28.05	16.42	9.70	18.22	2.83
LOST1	8.19	7.45	2.92	18.27	16.18	5.87	10.17	9.28
LYEB1 ^d	6.37	5.03	2.79	23.57	14.73	10.24	11.44	2.75
MACA1	16.51	11.31	5.00	29.83	21.02	9.80	19.44	4.28
MELA1	7.27	6.19	2.96	16.62	15.30	5.95	9.14	9.09
MEVE1	4.32	2.28	1.02	9.22	6.51	4.20	5.05	5.33
MING1	14.37	11.08	5.30	26.28	20.13	9.18	23.82	10.81
MOHO1	2.17	1.39	0.88	12.10	9.27	6.59	7.75	2.74

Site	20% Clearest Days			20% Most Impaired Days			e3 (Mm ⁻¹)	
	Baseline Visibility	Most Recent	Natural	Baseline Visibility	Most Recent	Natural Conditions	carbon	dust
	Condition (2000-2004)	Visibility Condition (2014-2018)	Conditions (20% Clearest Days)	Condition (2000-2004)	Visibility Condition (2014-2018)	(20% Most Impaired Days)		
MONT1	3.86	2.56	1.48	11.00	10.06	5.53	16.11	4.89
MOOS1	9.16	6.59	5.02	20.65	13.32	9.98	11.13	2.54
MORA1	5.48	3.88	2.56	16.53	12.66	7.66	13.33	2.53
MOZI1	1.61	0.23	-0.47	7.29	5.47	3.16	5.70	3.23
NOAB1	2.02	0.75	0.59	8.78	7.17	4.55	10.18	4.23
NOCA1	3.37	2.46	1.93	12.57	9.98	6.89	8.20	1.97
OKEF1	15.23	11.57	5.43	25.34	17.39	9.45	20.65	5.50
OLYM1	6.03	3.55	2.70	14.93	11.90	6.90	8.78	1.76
PASA1	2.71	1.65	1.16	10.41	9.46	5.96	9.42	2.58
PEFO1	5.02	3.25	1.07	9.82	8.16	4.21	6.75	7.84
PINN1	8.89	7.73	3.45	17.02	14.10	6.94	11.33	5.88
PORE1	10.54	8.16	4.82	19.38	15.33	9.74	6.78	8.23
RAFA1	6.45	4.93	1.77	17.27	14.11	6.80	7.65	8.20
REDW1	6.13	5.33	3.46	13.74	12.65	8.59	5.86	4.44
ROMA1	14.29	11.80	5.93	25.25	17.67	9.78	23.38	5.35
ROMO1	2.29	1.37	0.28	11.12	8.41	4.94	8.54	5.32
SACR1	7.84	6.62	2.13	16.50	14.97	5.49	9.01	13.51
SAGA1	4.82	2.77	0.43	17.89	13.19	6.12	8.49	7.11
SAGO1	5.40	3.33	1.24	20.43	14.45	6.20	11.94	7.77
SAGU1	6.94	6.09	2.23	12.64	10.75	5.14	6.15	9.62
SAMA1	14.34	11.15	5.37	24.68	17.39	9.13	22.16	5.22
SAPE1	1.46	0.37	-0.72	7.66	6.43	3.33	5.66	4.53
SAWT1	4.00	2.58	1.51	9.61	8.61	4.70	12.35	2.61
SENE1	7.14	5.27	3.74	23.58	17.57	11.11	13.67	2.52
SEQU1	8.76	7.02	2.29	23.17	18.43	6.29	23.11	11.47
SHEN1	10.96	6.85	3.15	28.32	17.07	9.52	15.06	3.92
SHRO1	7.70	4.40	2.49	28.13	15.49	10.25	13.99	3.09
SIAN1	6.16		2.03	10.76		5.11	6.77	5.91
SIME1	7.60	7.74	5.28	13.67	13.89	8.51	3.42	4.63
SIPS1	15.57	10.76	5.03	27.69	19.03	9.62	21.66	4.79
SNPA1	5.50	3.31	2.33	15.37	12.74	7.27	12.33	1.79
STAR1	4.49	2.79	1.48	14.53	11.19	6.58	13.10	5.66
SULA1	2.57	1.60	1.12	10.06	8.37	5.45	11.78	3.22
SWAN1	12.34	10.61	5.71	23.79	16.30	10.01	16.47	5.01
SYCA2 ^e	5.58	4.18	0.98	12.16	11.63	4.68	13.12	15.93
THRO1	7.76	5.85	3.04	16.35	14.06	5.94	9.87	8.71
THSI1	3.04	2.61	1.86	12.80	11.28	7.30	12.62	4.01
TONT1	6.46	5.03	2.05	11.65	10.45	5.14	7.14	8.76
TRCR1	3.46	3.36	2.71	9.11	8.82	6.36	5.11	2.38
TRIN1	3.44	3.09	1.23	11.92	10.43	6.48	10.36	3.61
ULBE1	4.75	3.71	2.46	12.76	10.93	5.87	9.82	6.17
UPBU1	11.71	8.20	4.18	24.21	17.95	9.41	17.58	7.02
VIIS1	8.53	9.92	4.41	14.29	15.45	8.53	2.60	21.54
VOYA2	7.15	5.31	4.27	17.88	14.18	9.37	11.48	4.14
WEMI1	3.11	1.61	0.98	7.78	6.55	3.97	6.51	3.64
WHIT1	3.55	2.54	0.66	11.31	9.95	4.89	7.16	7.13
WHPA1	1.66	0.99	0.82	10.48	7.98	6.14	6.89	2.41
WHPE1	1.22	0.31	-0.57	7.34	5.95	3.50	5.13	3.50
WHRI1	0.70	-0.16	-0.81	6.30	4.98	3.02	4.92	3.56
WICA1	5.14	3.52	1.88	13.09	10.53	5.64	7.96	4.62
WIMO1	9.78	8.47	3.02	22.15	18.12	6.92	13.95	9.94
YELL2	2.58	1.43	0.43	8.30	7.52	3.97	10.08	3.06
YOSE1	3.40	2.87	0.99	13.51	11.57	6.29	13.14	5.19
ZICA1 ^f	4.84	3.86	1.94	10.71	8.76	5.18	5.54	6.66

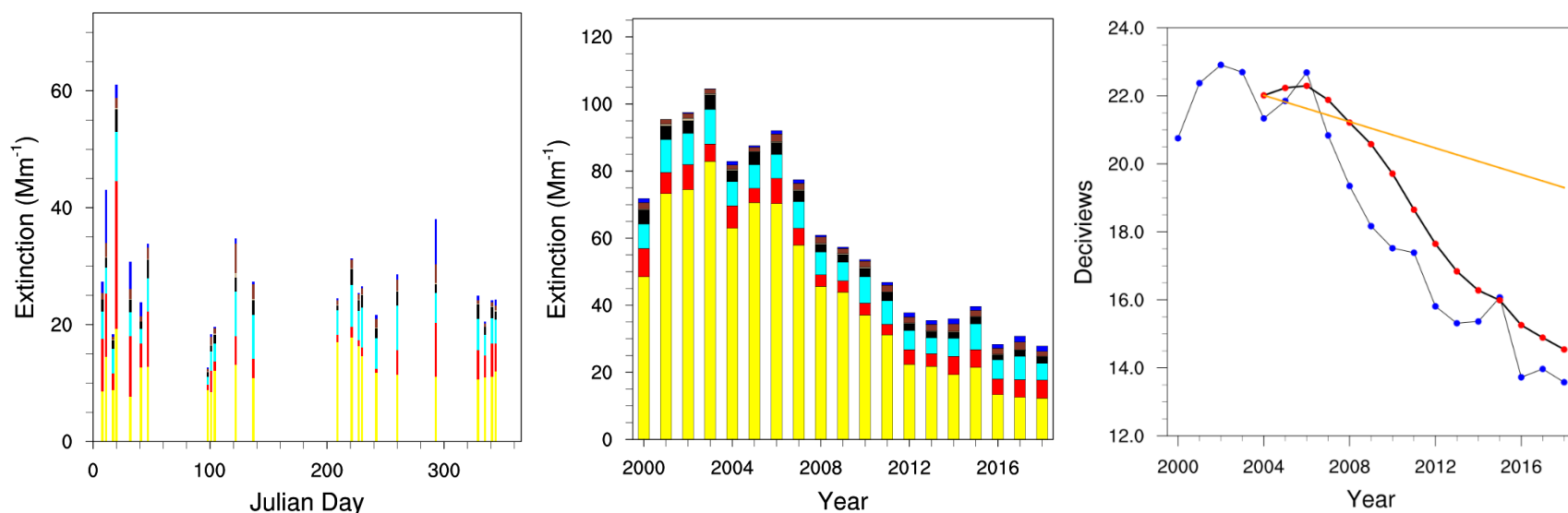
^aSite data combined with BRET1 starting 01-01-08; ^bSite data combined with HALE1 starting 01-01-08;

^cSite data combined with TUXE1 starting 01-01-15; ^dSite data combined with LYBR1 starting 01-01-12;

^eSite data combined with SYCA1 starting 10-18-15; ^fSite data combined with ZION1 starting 01-01-04

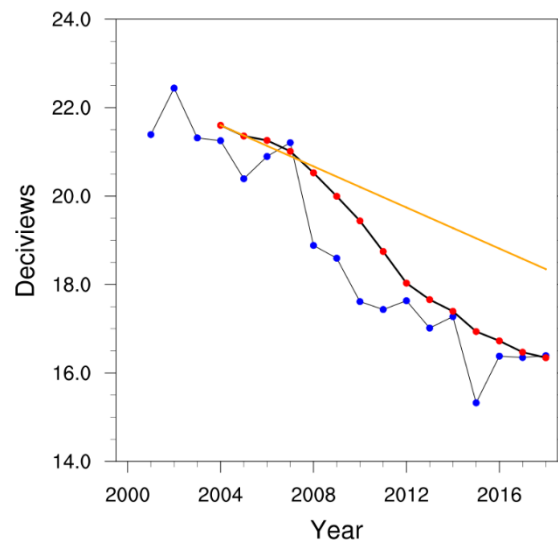
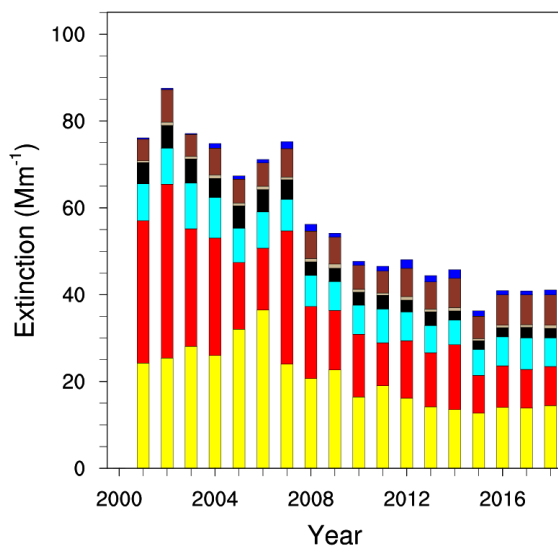
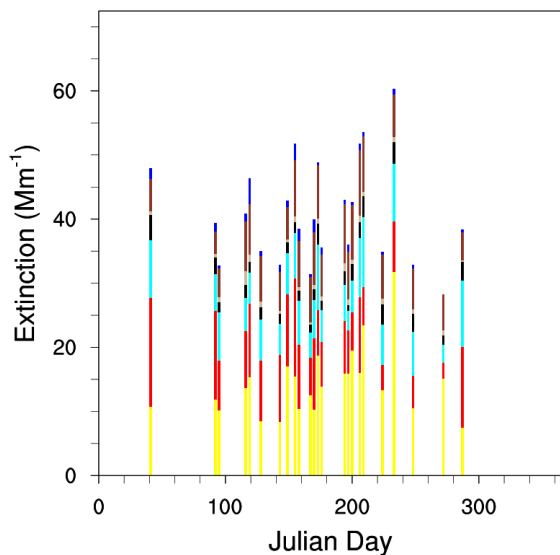
Figures. Light extinction by component for days classified as the 20 percent most impaired in 2018 unless otherwise noted (Left), average light extinction by component for days classified as the 20 percent most impaired from 2000-2018 (Middle), and annual average, 5-year average, and glidepath of the visibility index (in deciviews) on the 20 percent most impaired days from 2000 to 2018 (Right). For all extinction budget figures, the following color scale applies: sulfate (yellow), nitrate (red), OMC (teal), LAC (black), FS (tan), CM (brown), and sea salt (blue). For all visibility index figures, the blue points are annual average values; red points are 5-year averages and the orange line is the glidepath between 2000-2004 and 2060-2064.¹

Acadia National Park, ME

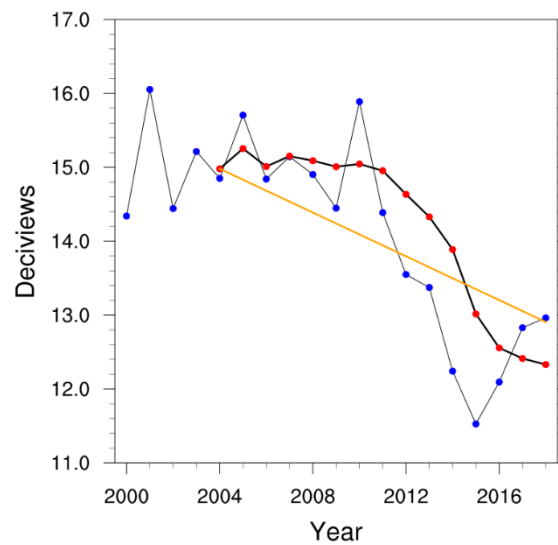
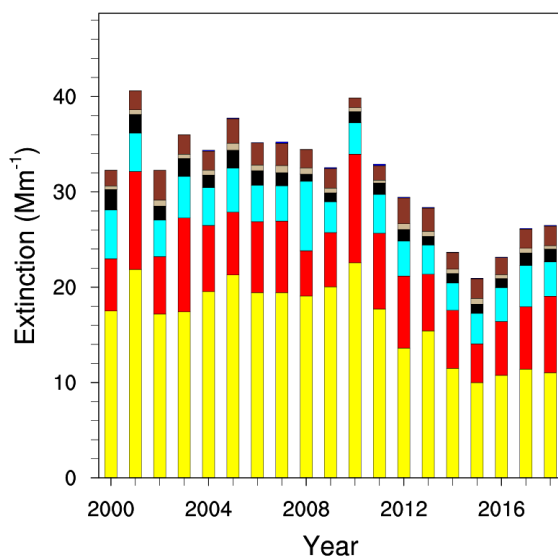
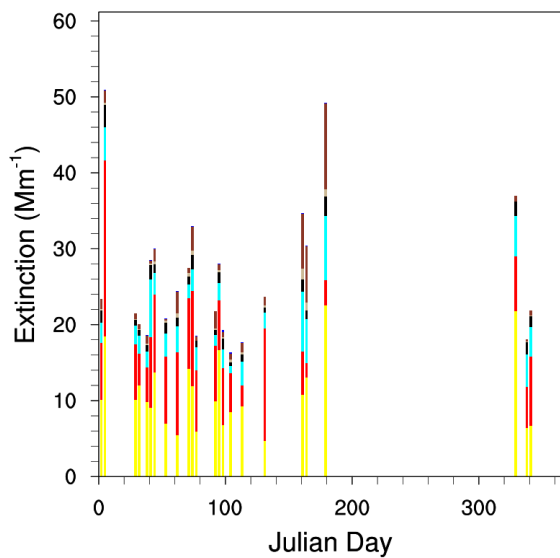


¹Updated site-specific graphics summarizing visibility status and trends following the Regional Haze Rule metrics can be found at http://views.cira.colostate.edu/fed/SiteBrowser/Default.aspx?appkey=SBCF_VisSum.

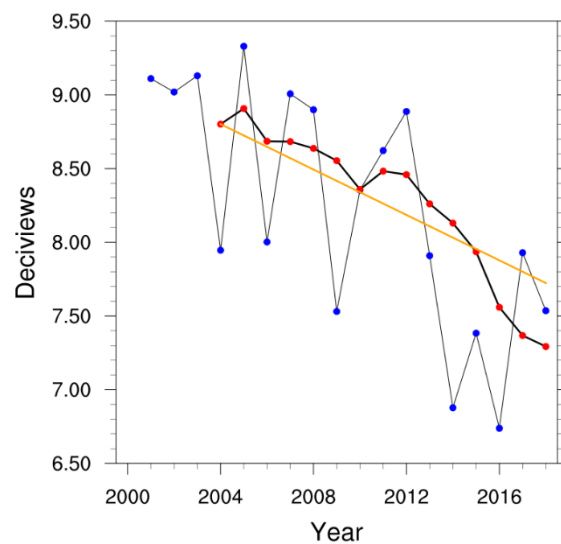
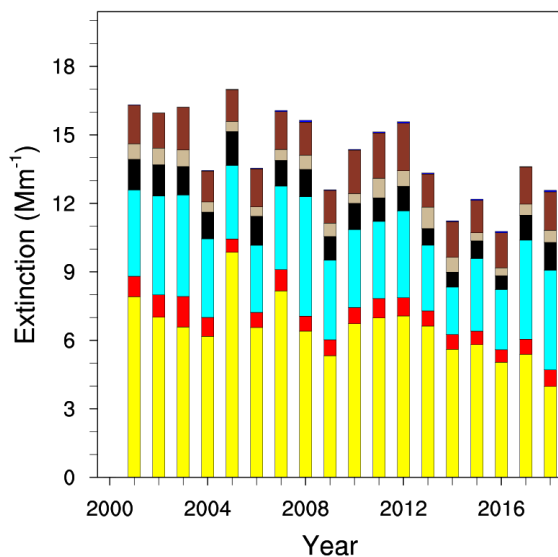
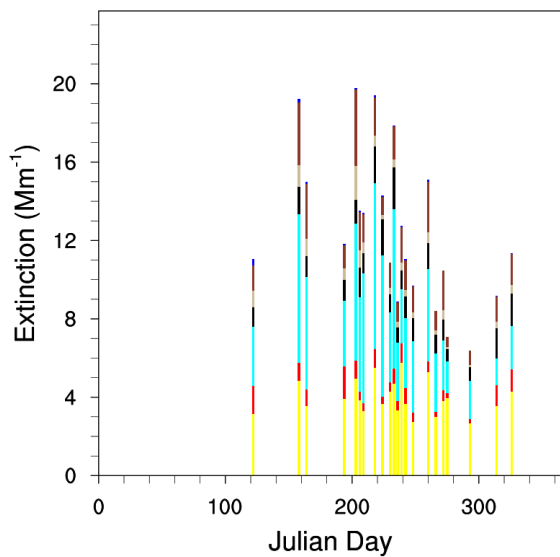
Agua Tibia, CA



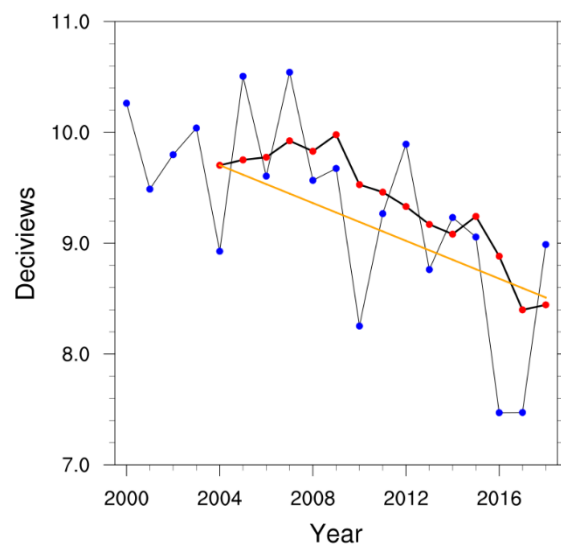
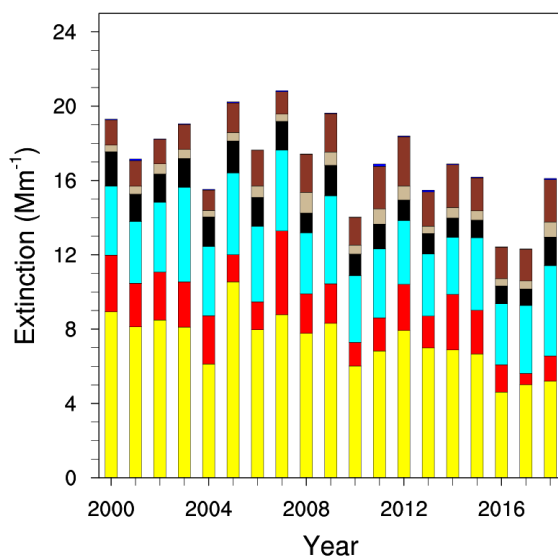
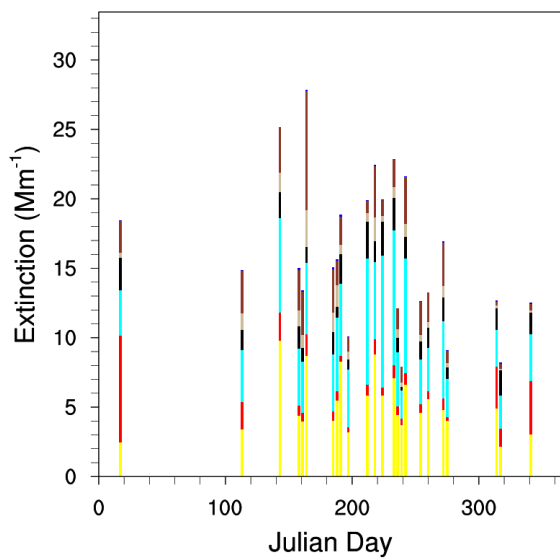
Badlands National Park, SD



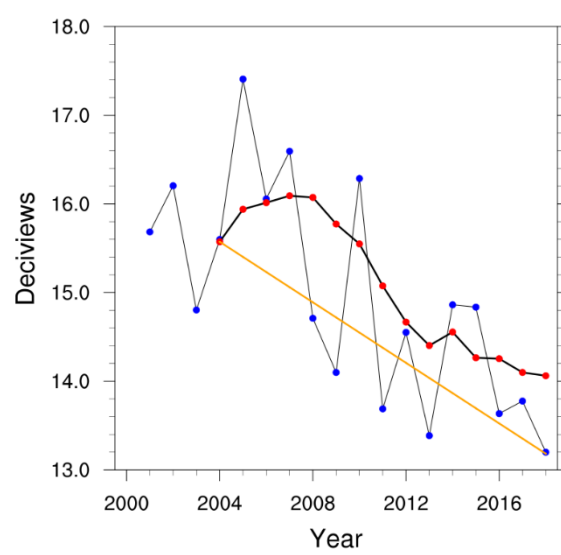
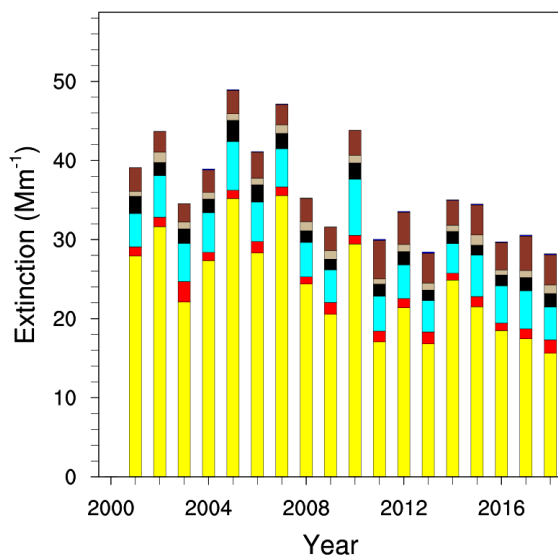
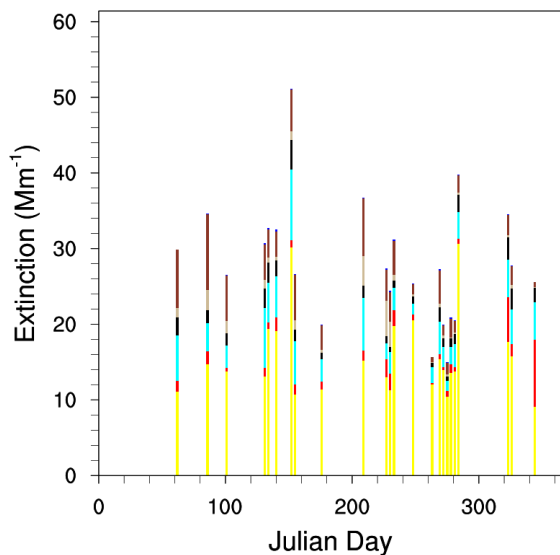
Mount Baldy, AZ



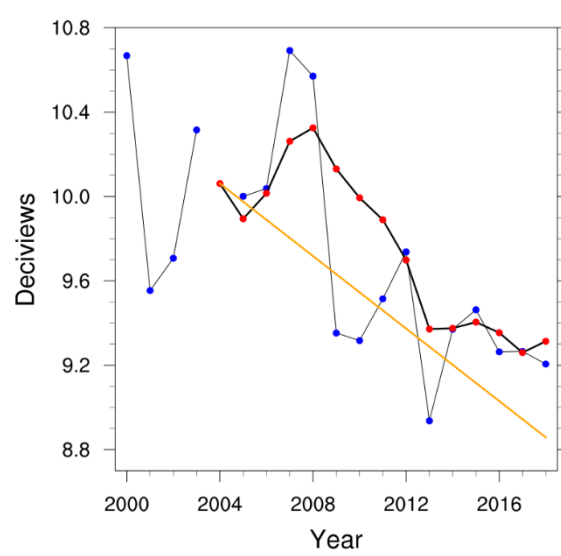
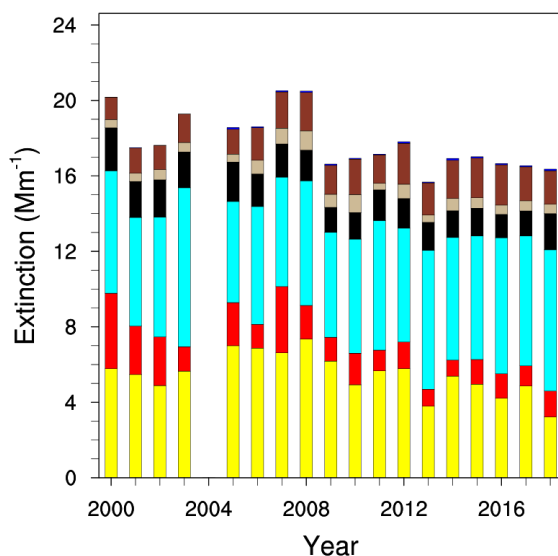
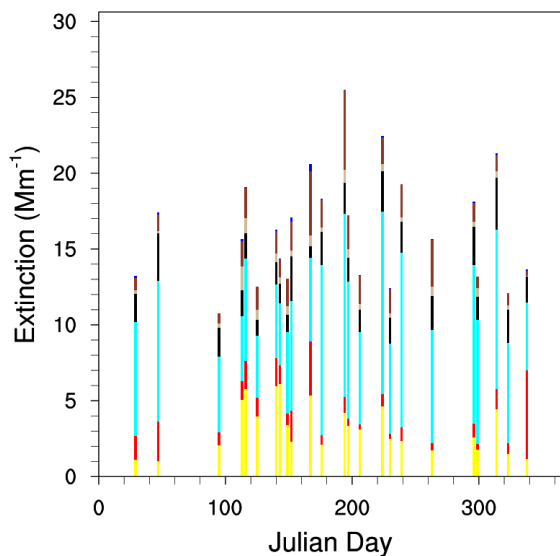
Bandelier National Monument, NM



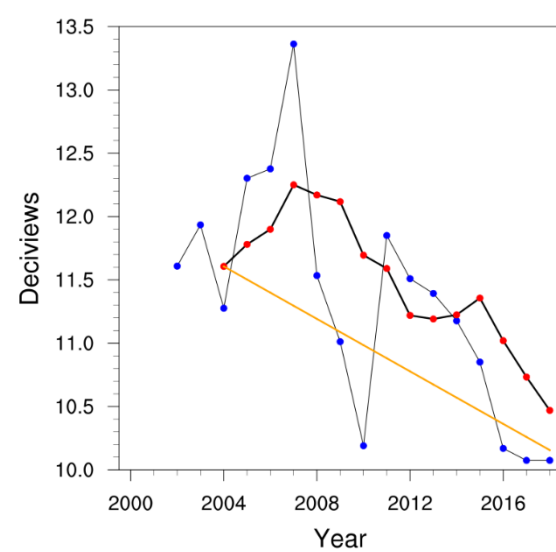
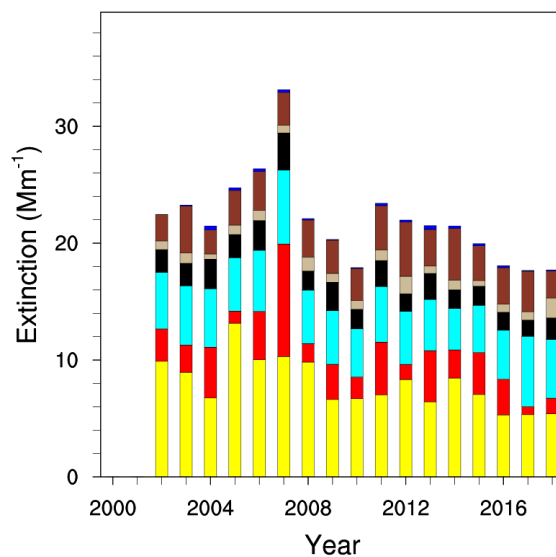
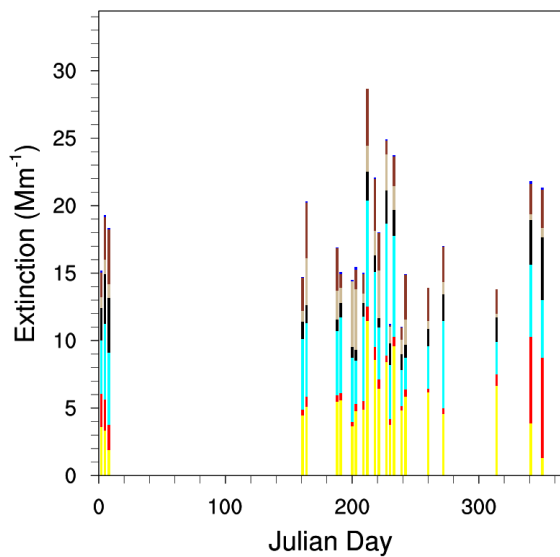
Big Bend National Park, TX



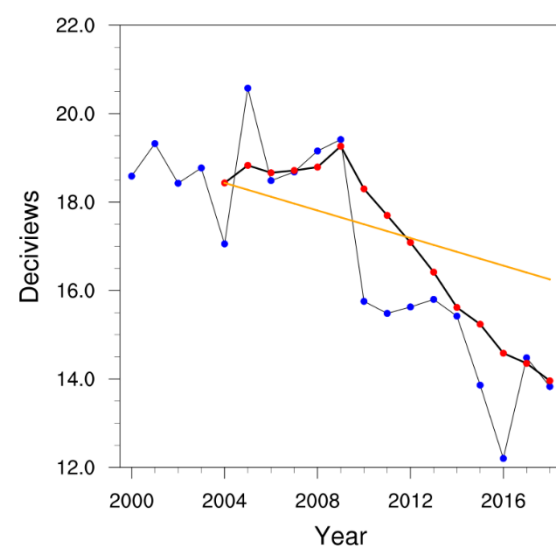
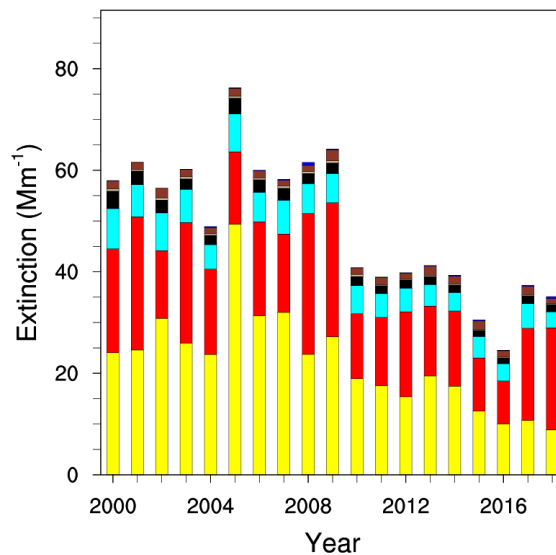
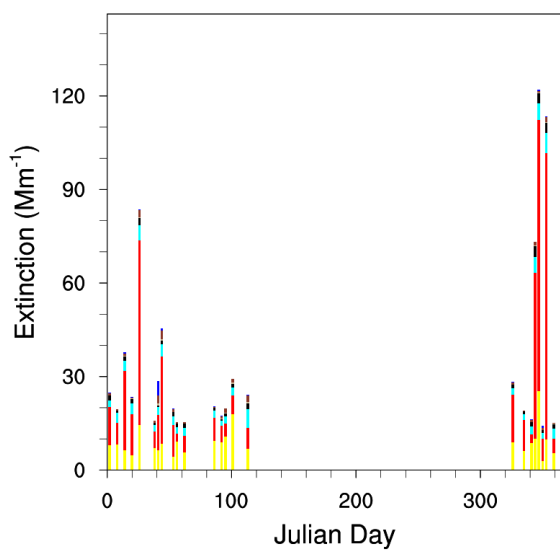
Bliss State Park, CA



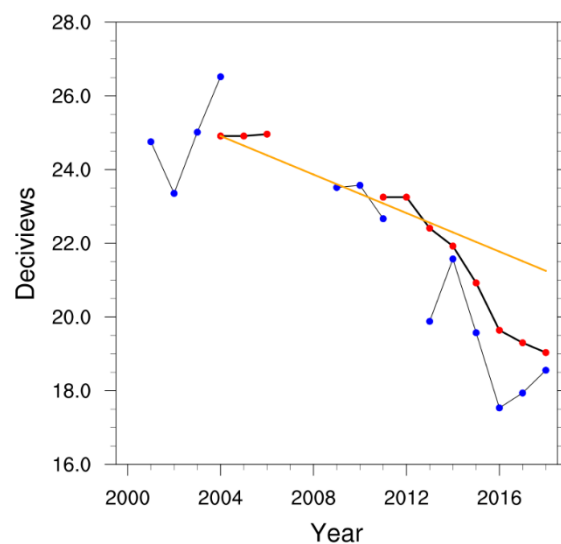
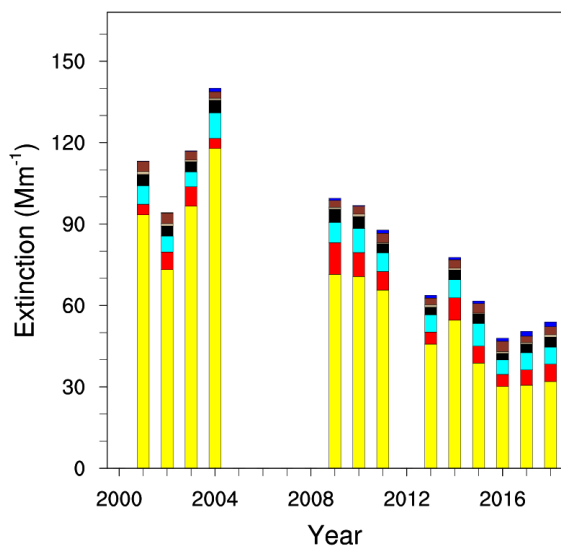
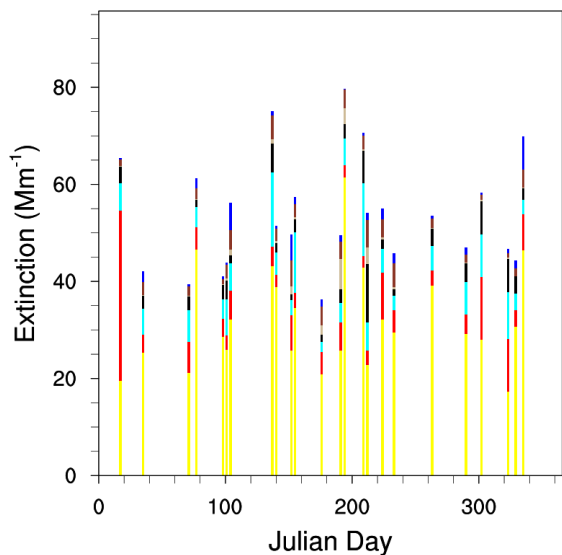
Bosque del Apache, NM



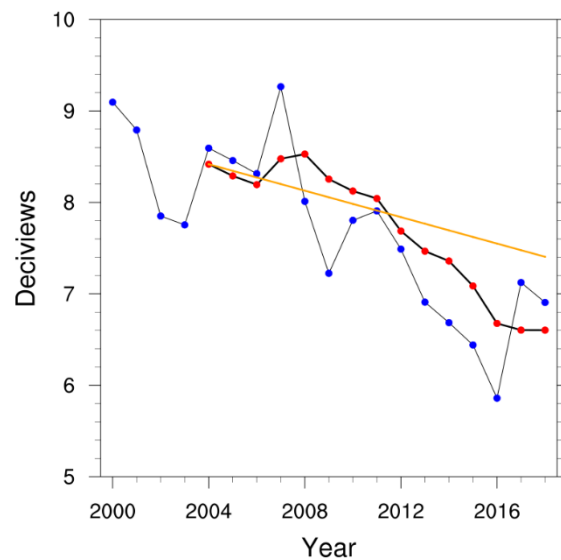
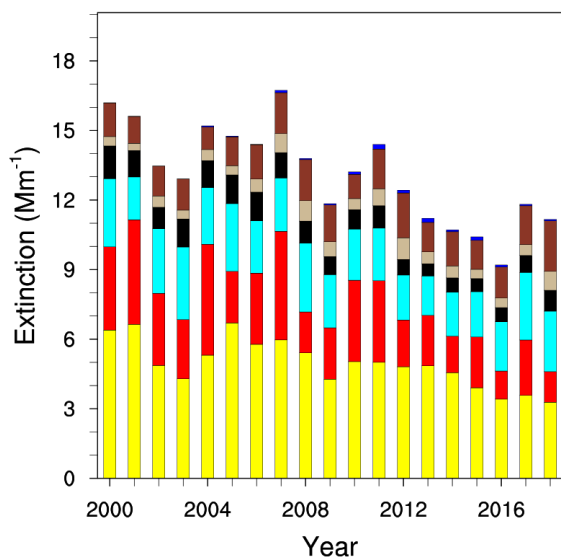
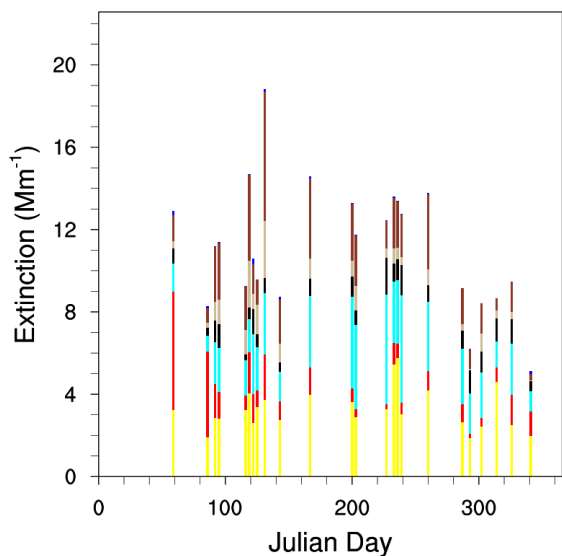
Boundary Waters Canoe Area, MN



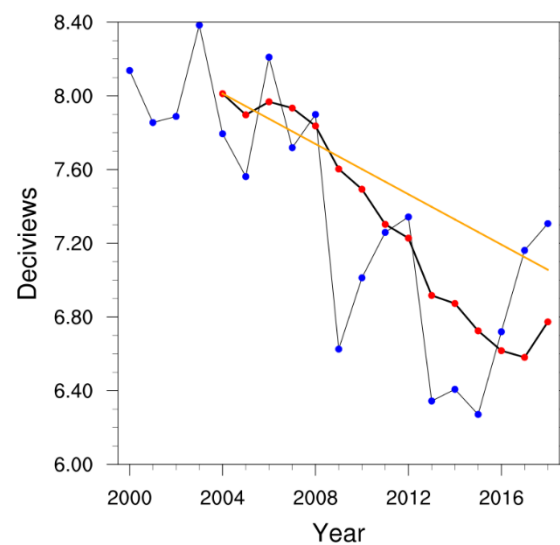
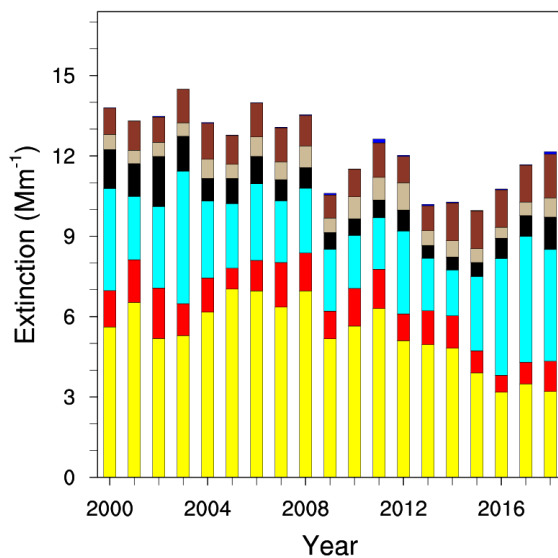
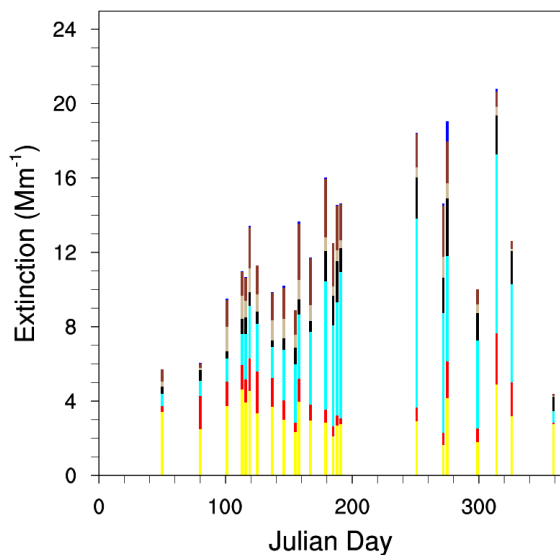
Breton Island, LA (combined BRET1 and BRIS1 starting on 01/01/2008)



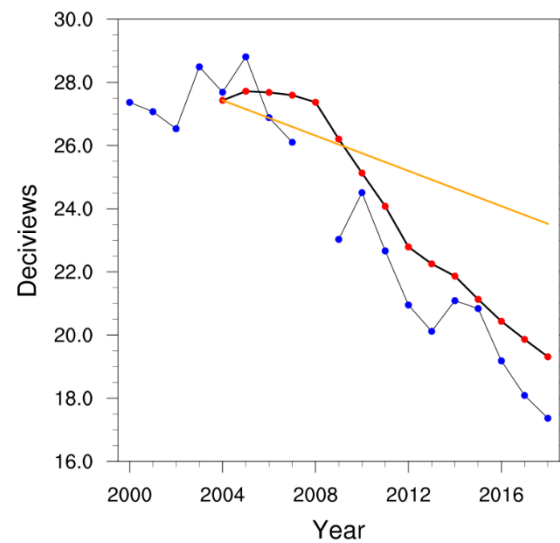
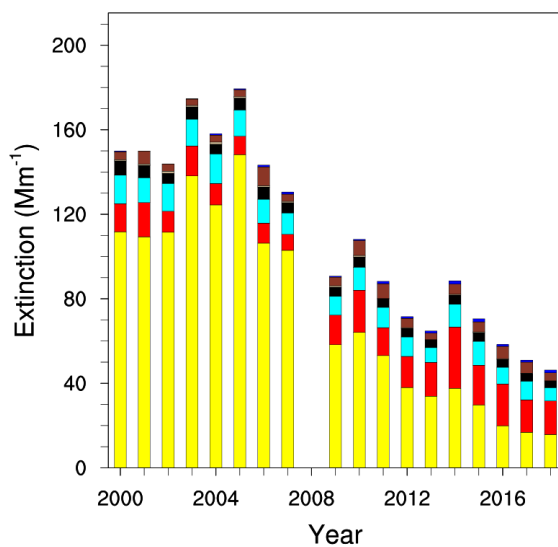
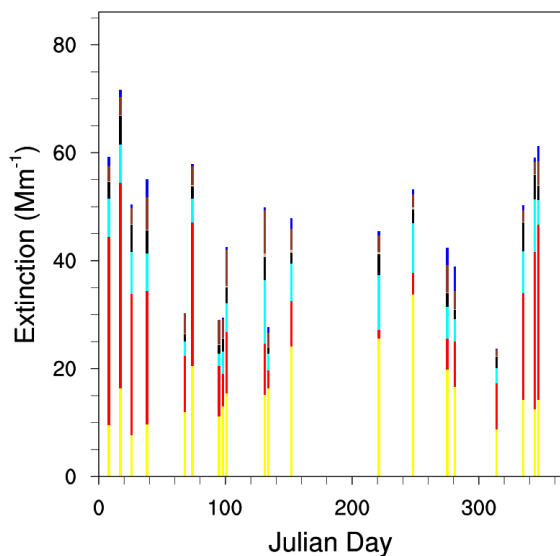
Bryce Canyon National Park, UT



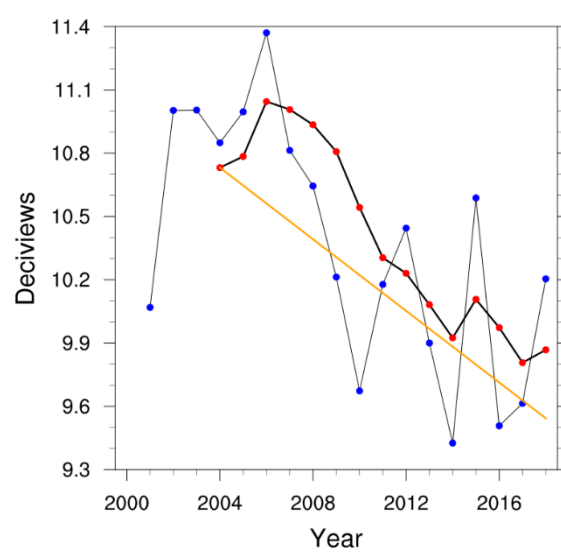
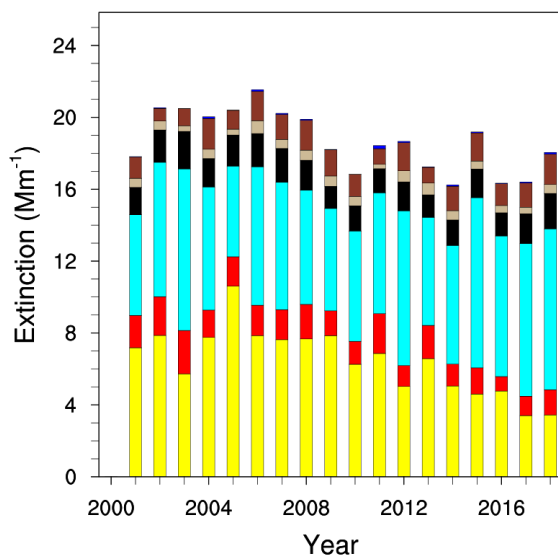
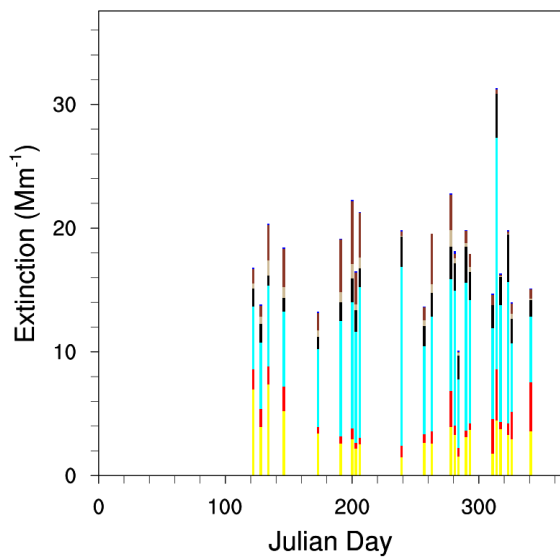
Bridger Wilderness, WY



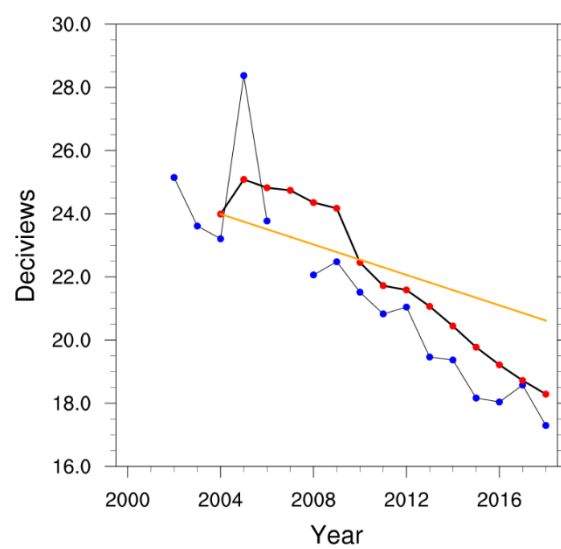
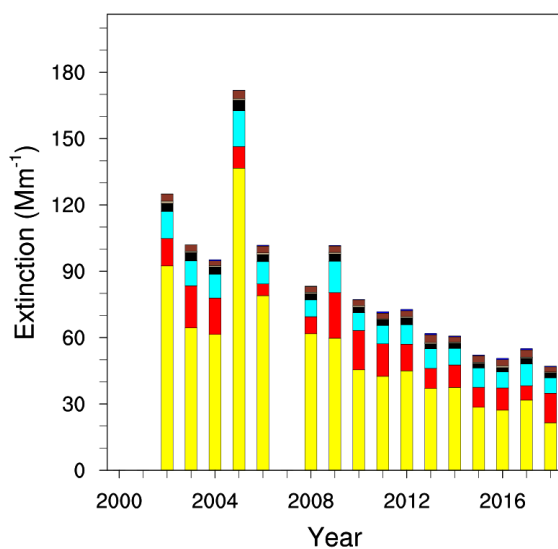
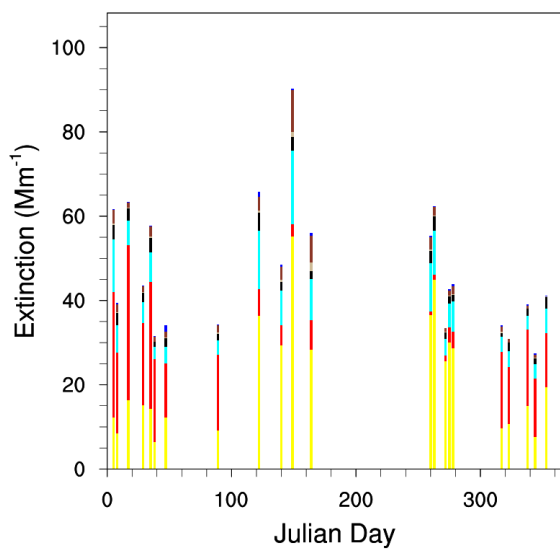
Brigantine National Wildlife Refuge, NJ



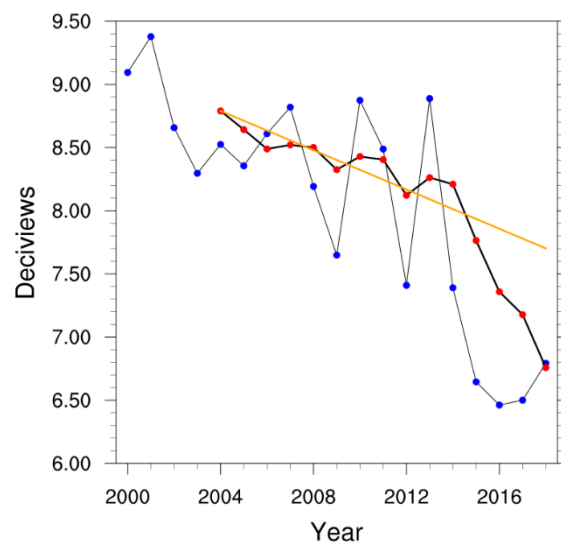
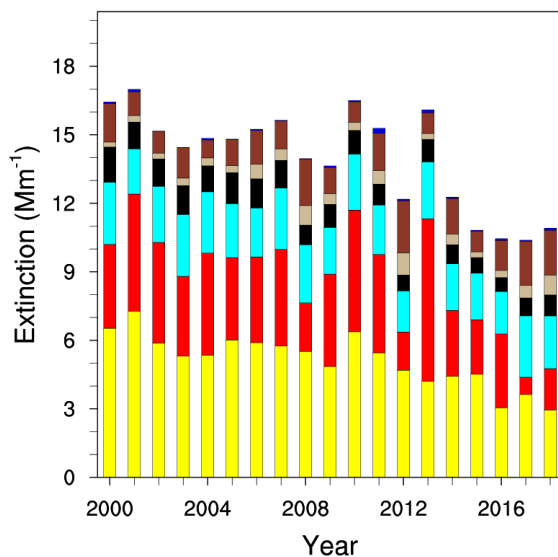
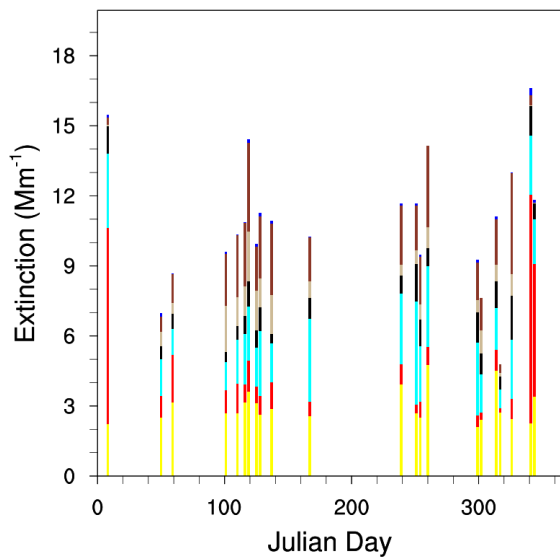
Cabinet Mountains, MT



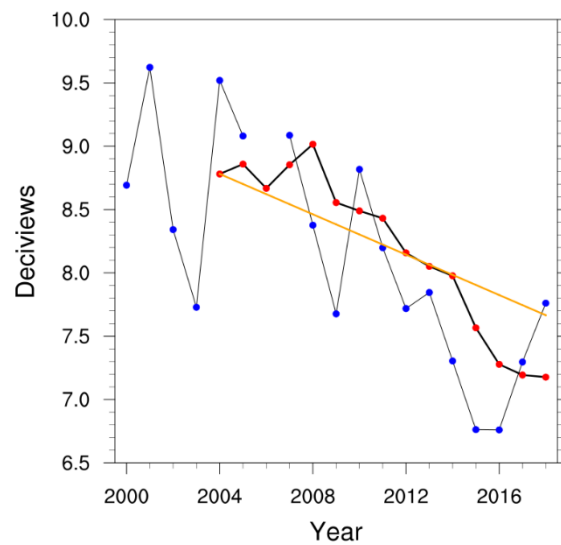
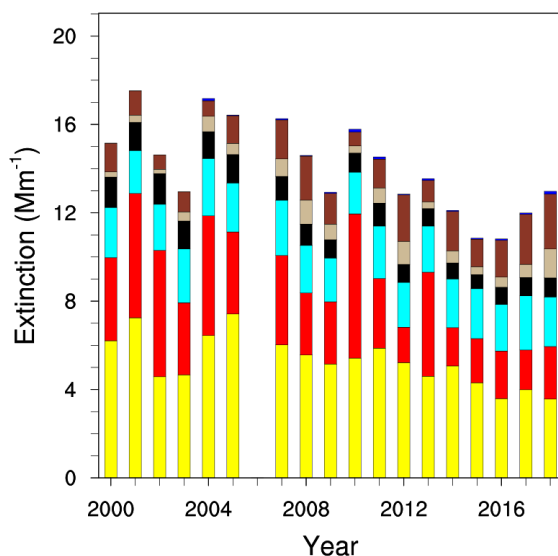
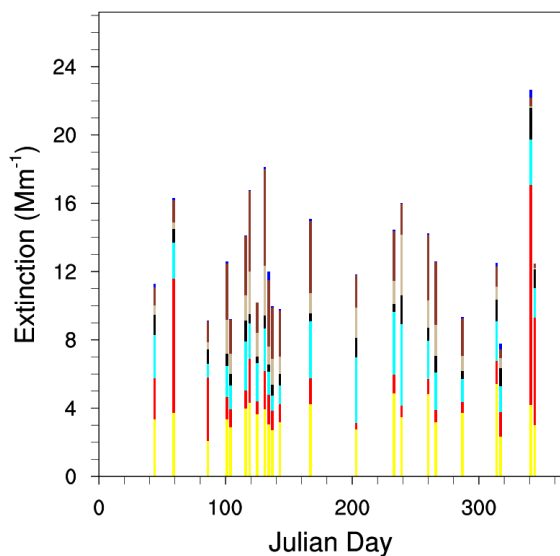
Caney Creek, AR



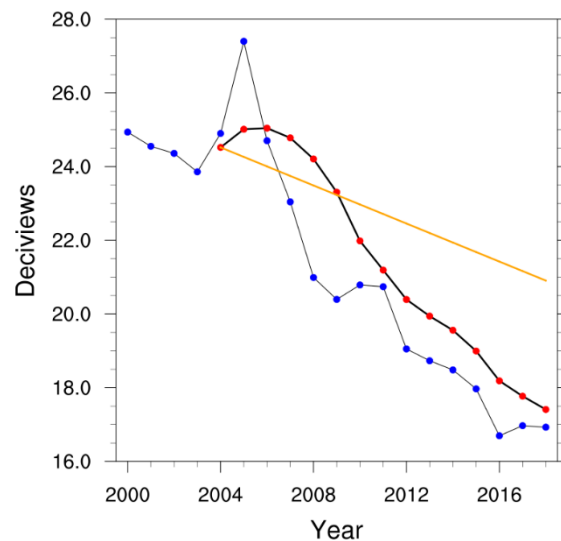
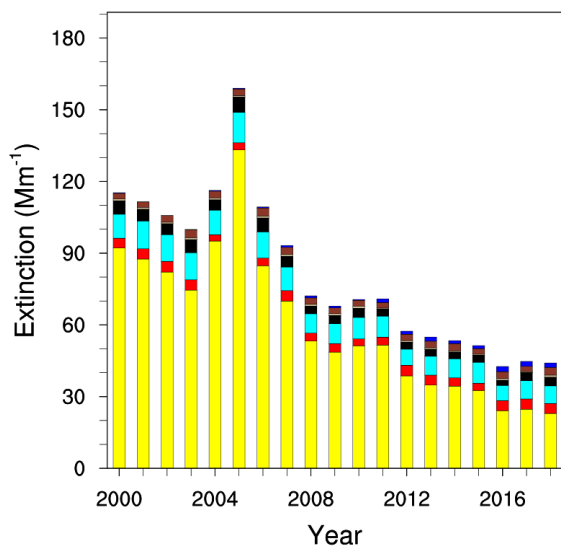
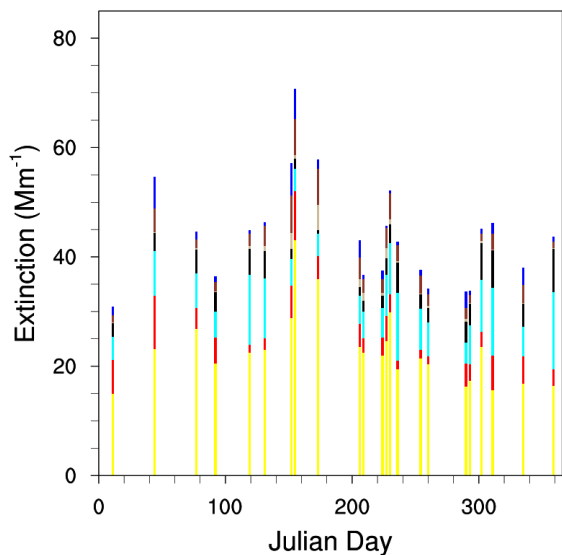
Canyonlands National Park, UT



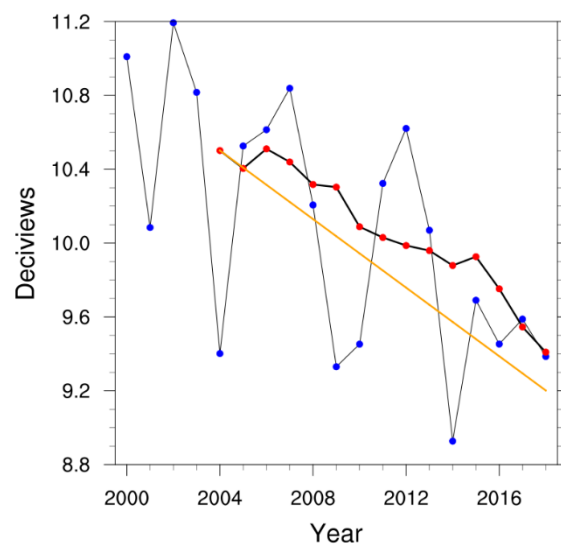
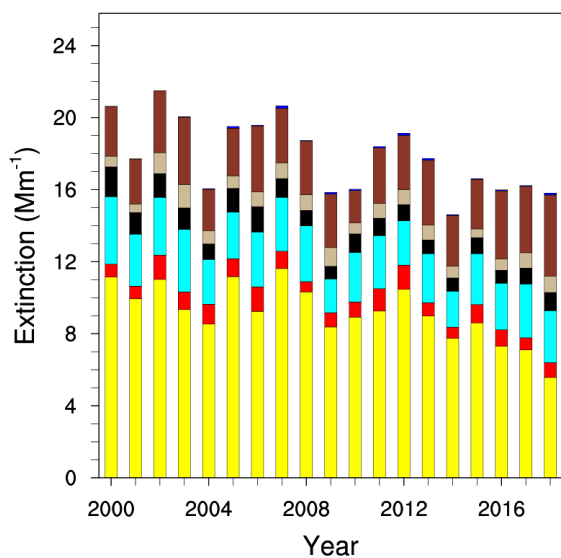
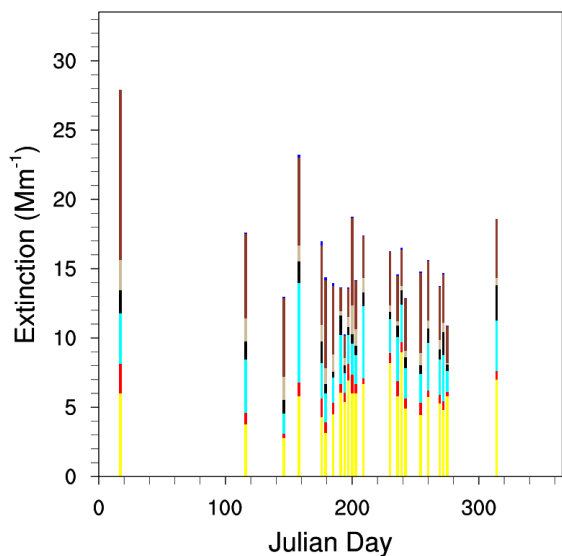
Capitol Reef National Park, UT



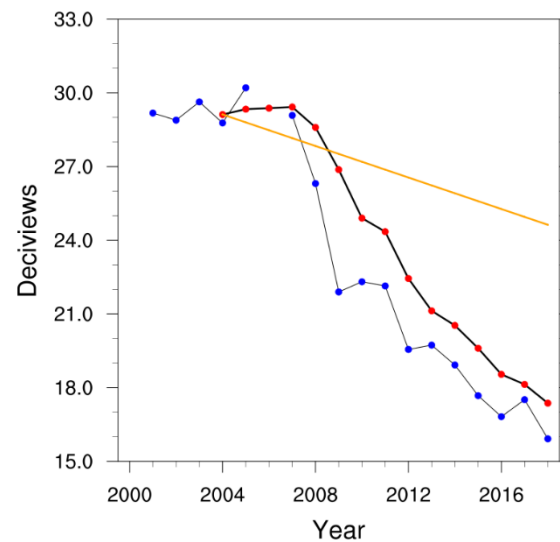
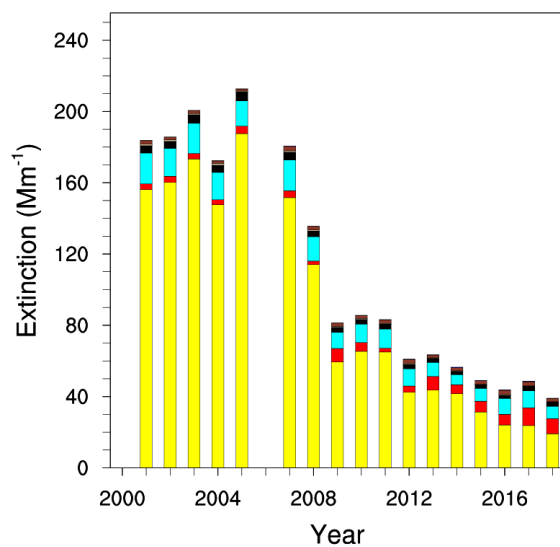
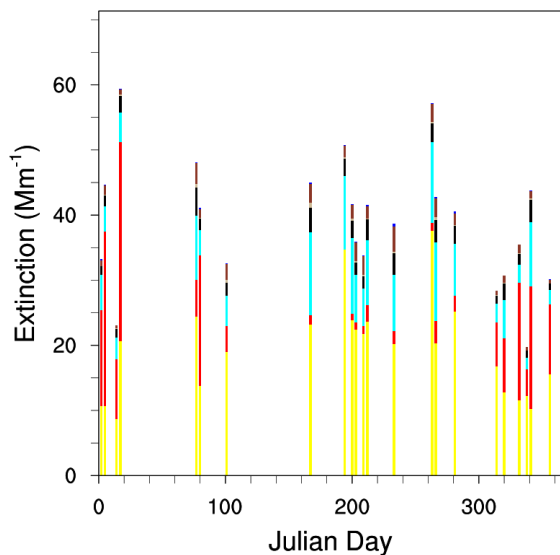
Chassahowitzka National Wildlife Refuge, FL



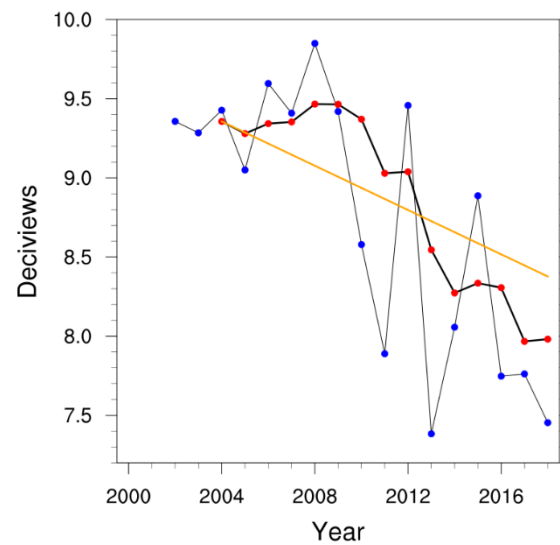
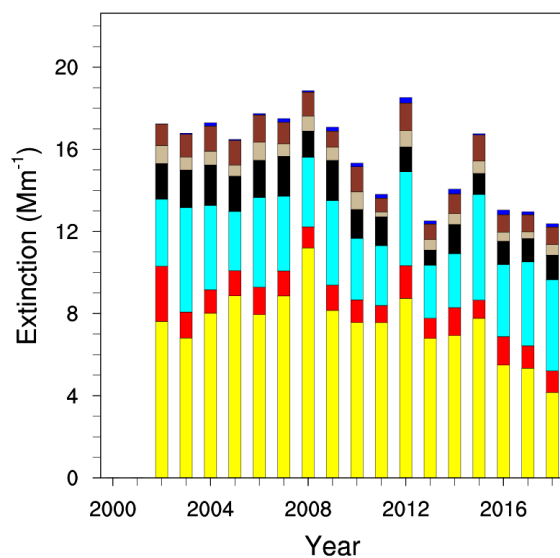
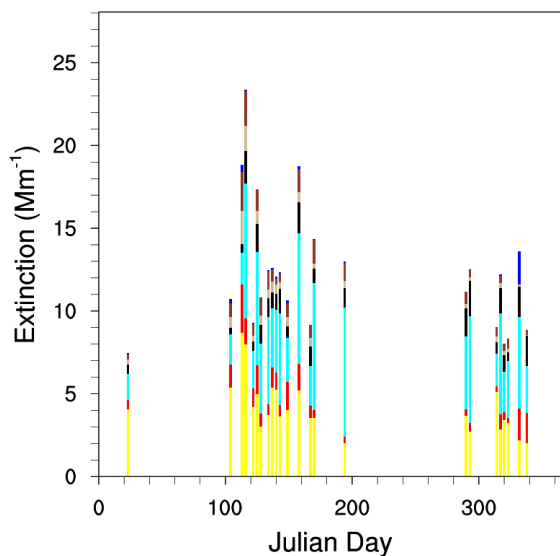
Chiricahua National Monument, AZ



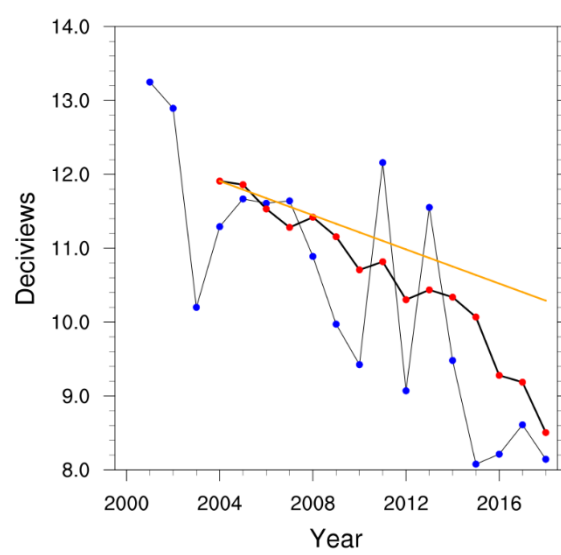
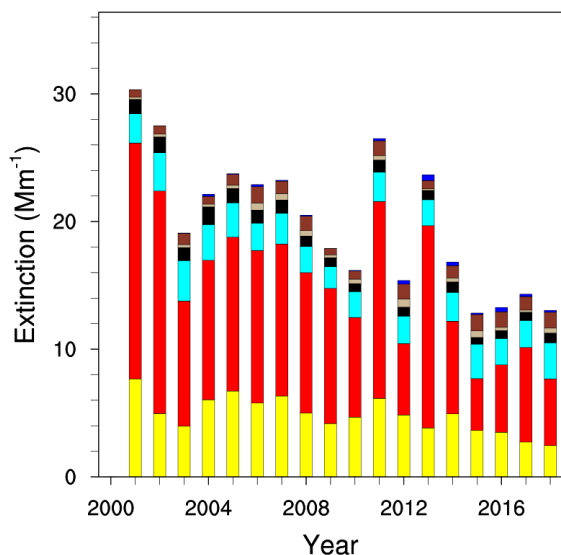
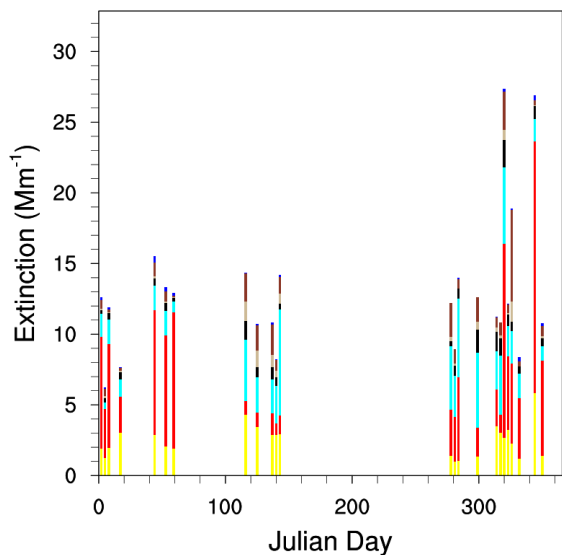
Cohutta, GA



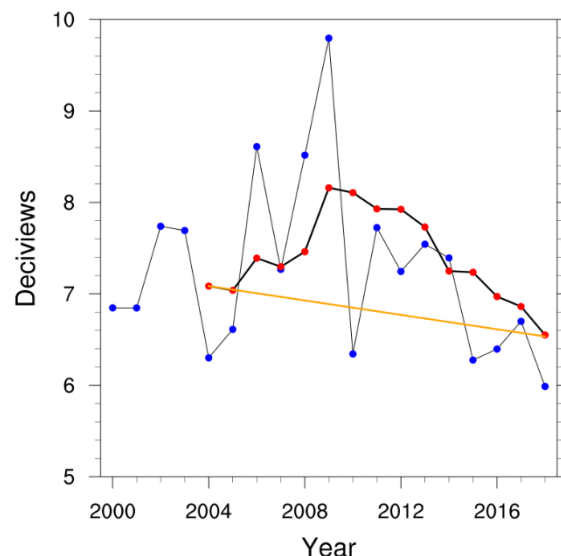
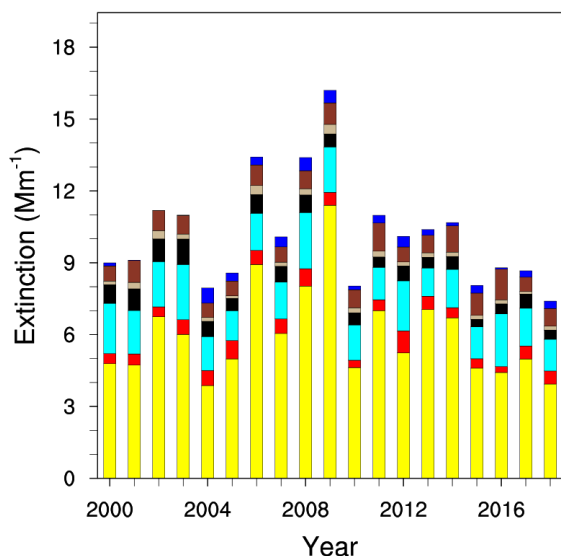
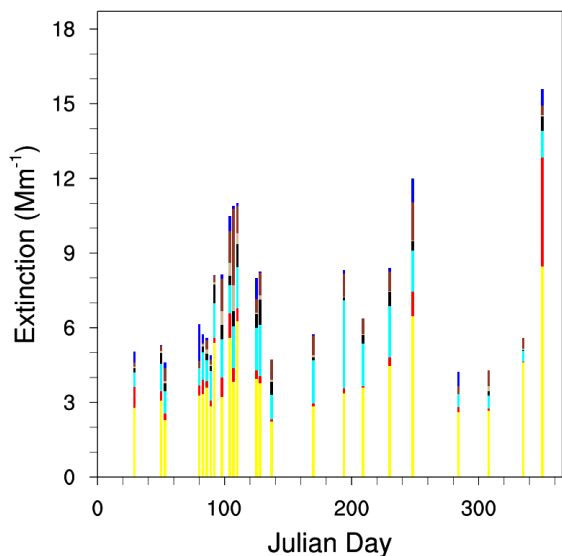
Crater Lake National Park, OR



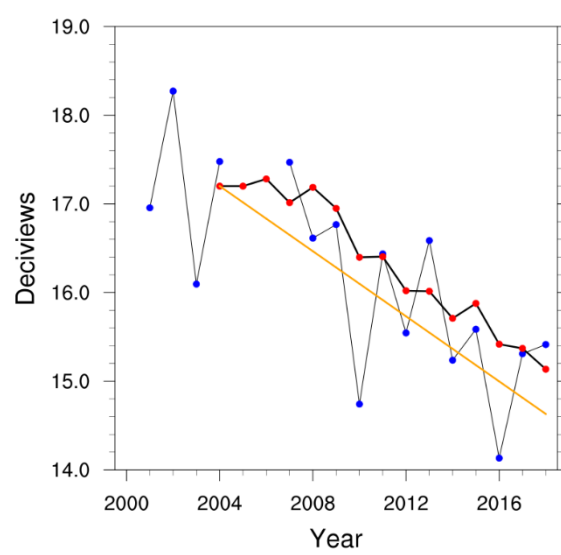
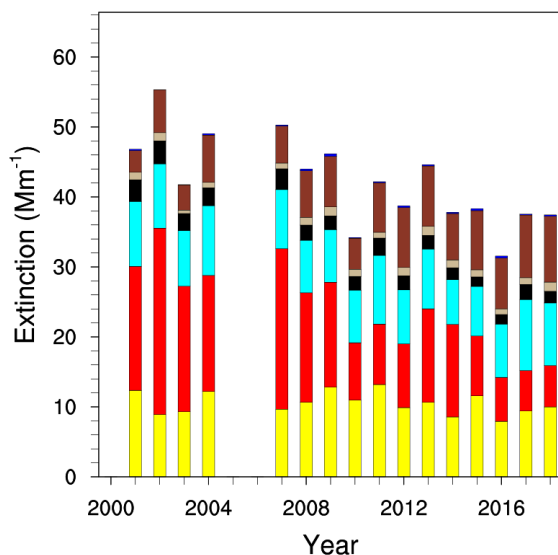
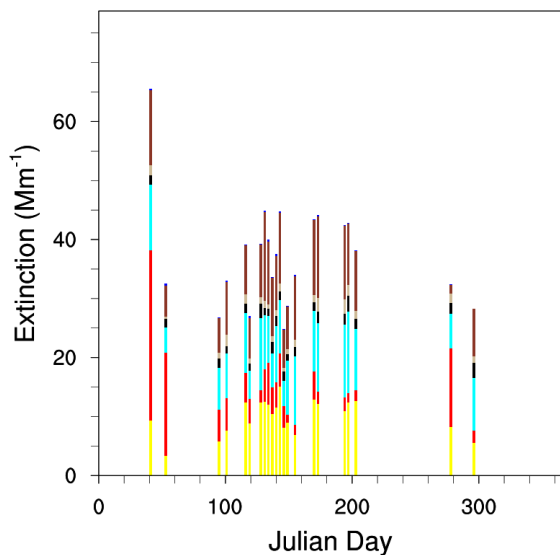
Craters of the Moon National Monument, ID



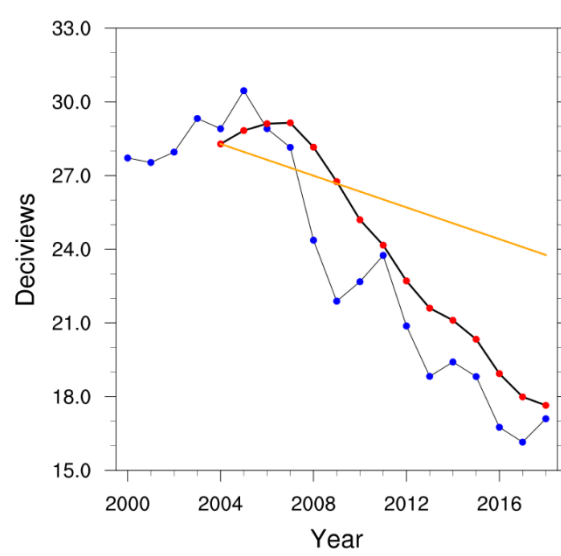
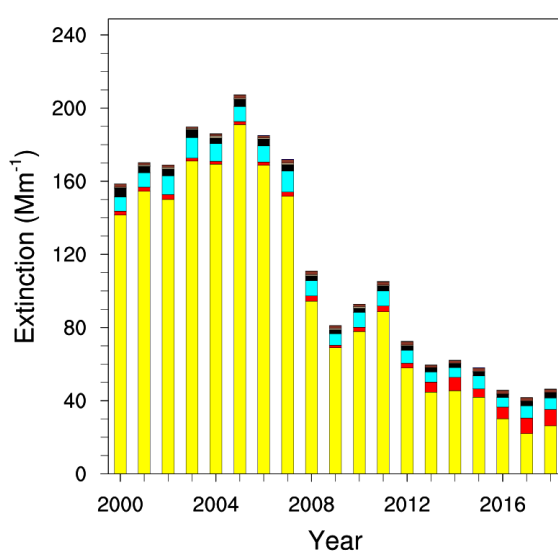
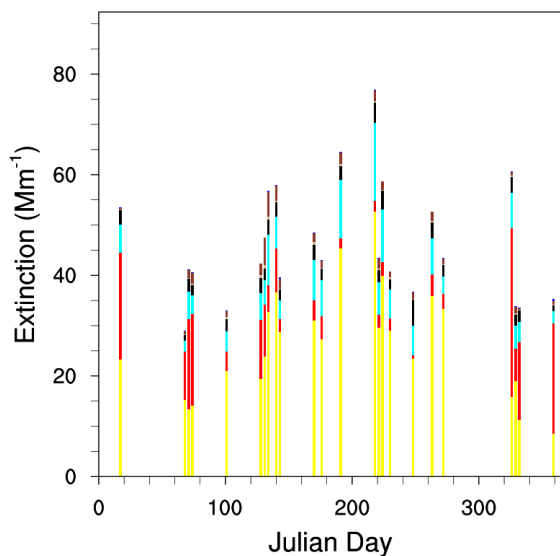
Denali National Park, AK



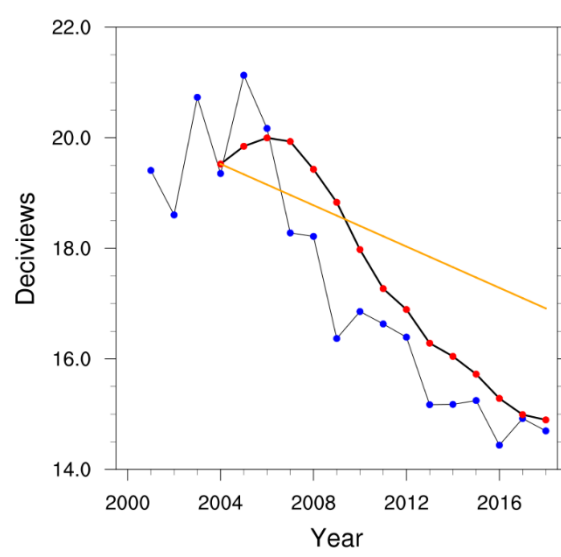
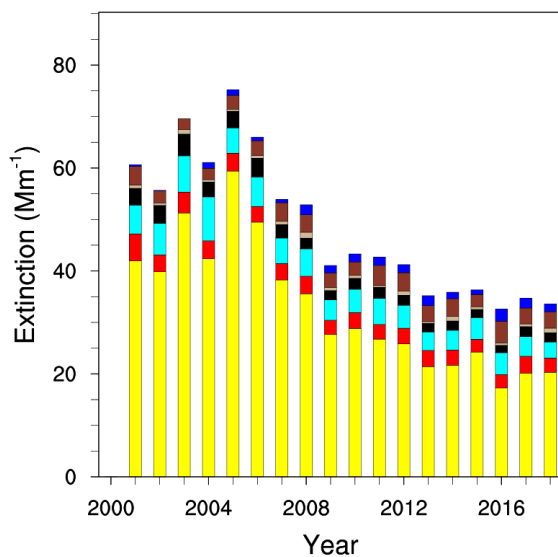
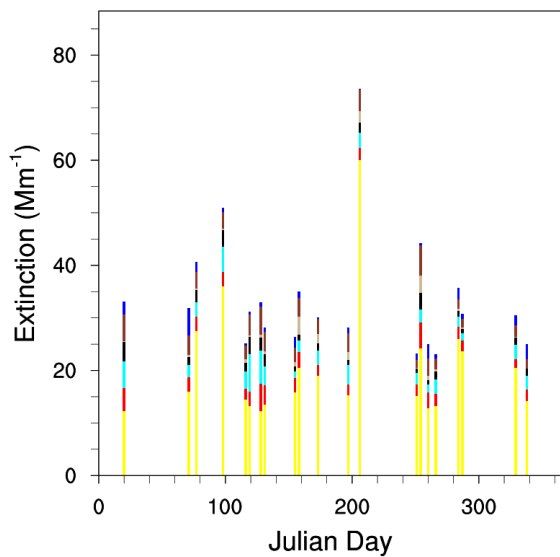
Dome Lands Wilderness, CA



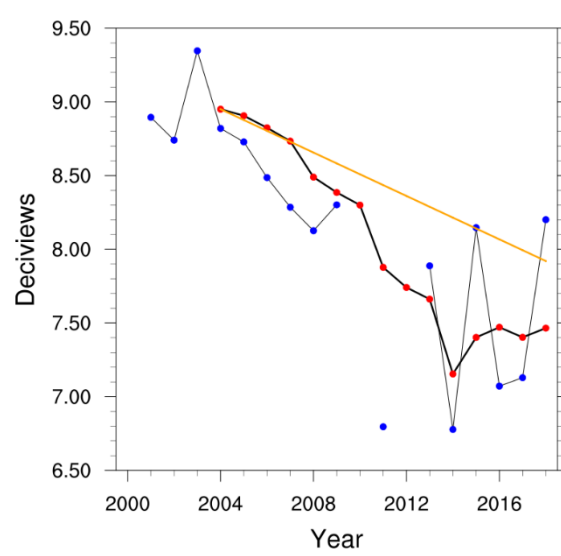
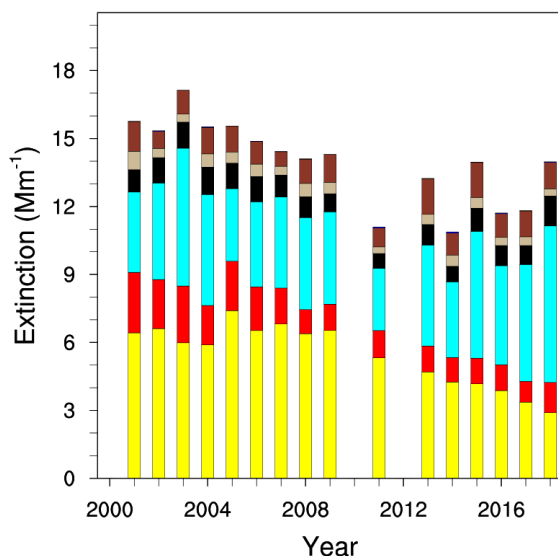
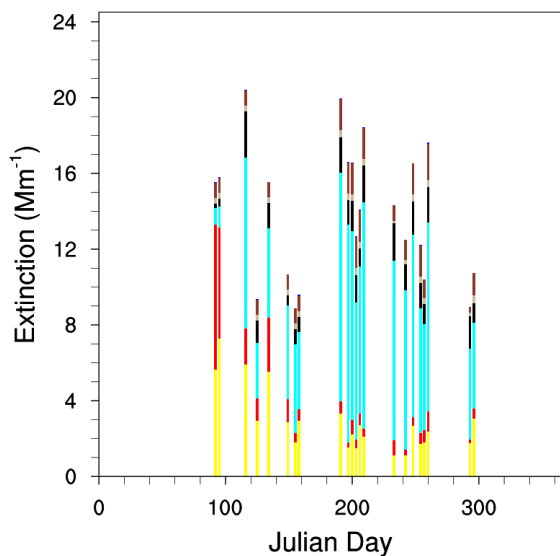
Dolly Sods Wilderness, WV



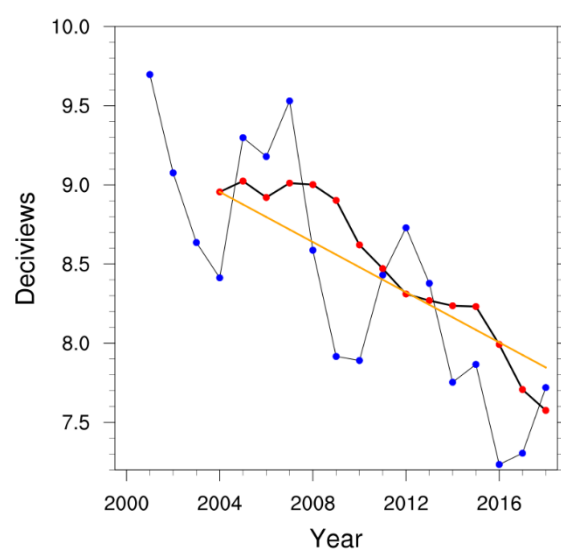
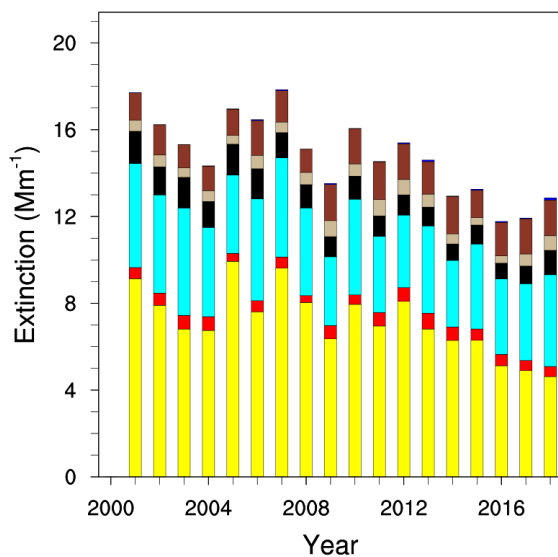
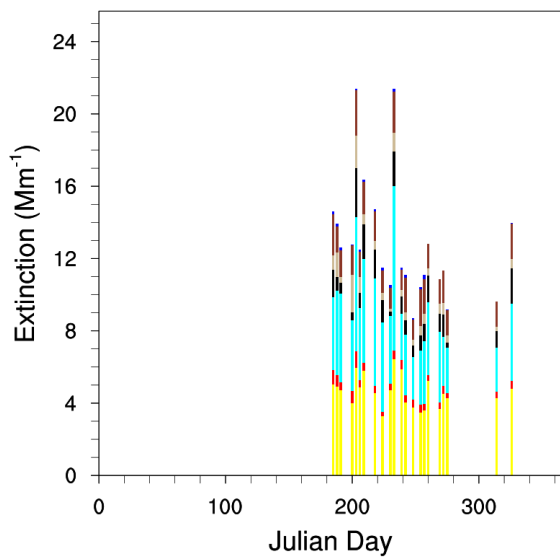
Everglades National Park, FL



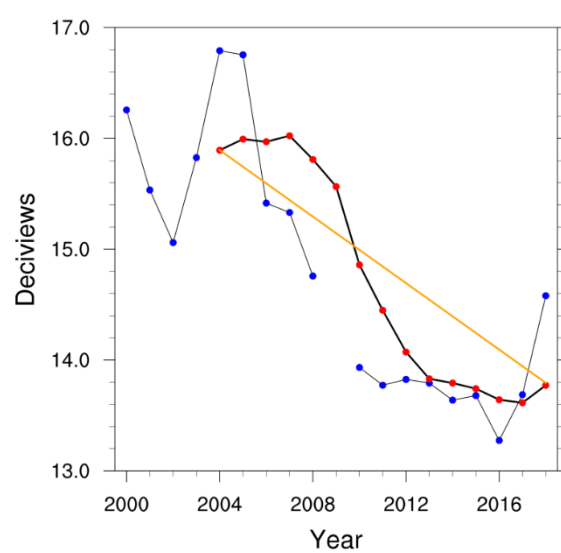
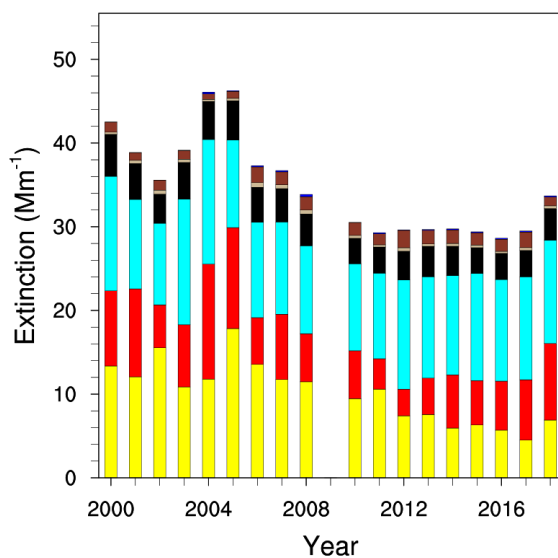
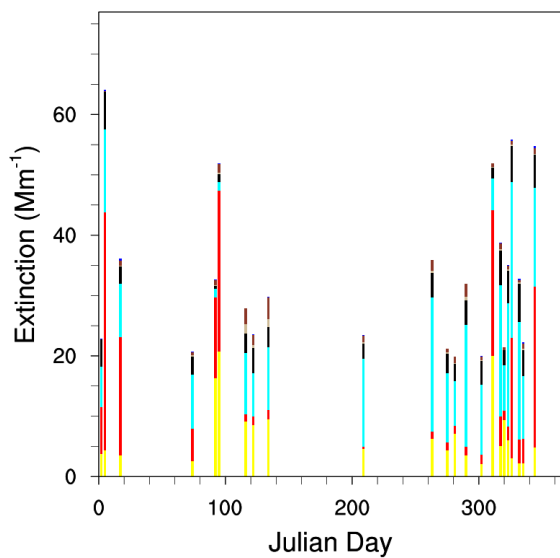
Gates of the Mountains, MT



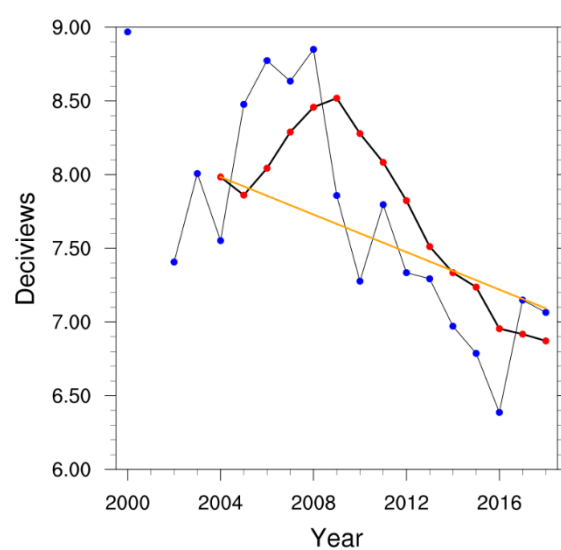
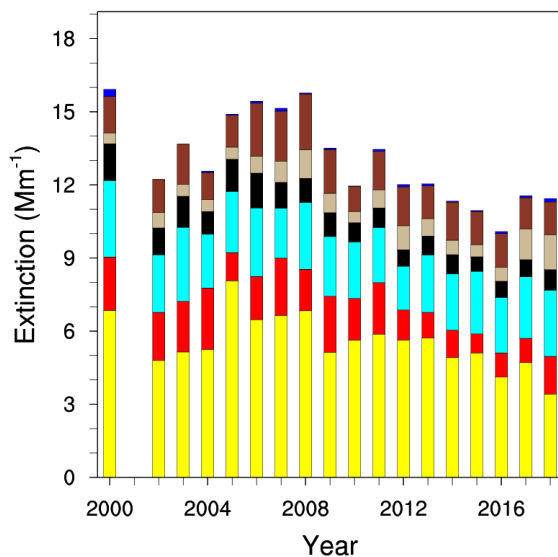
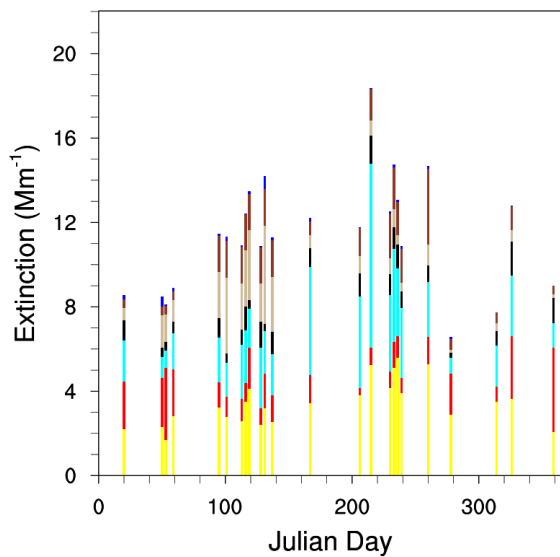
Gila Wilderness, NM



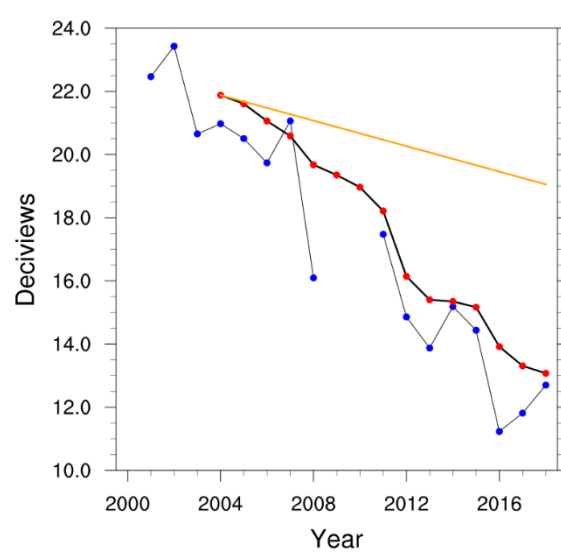
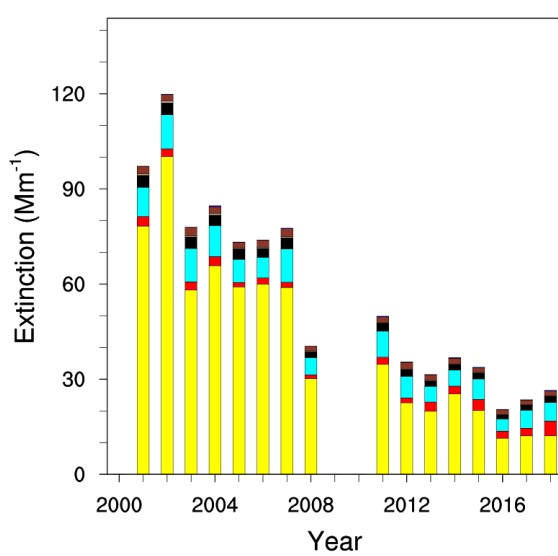
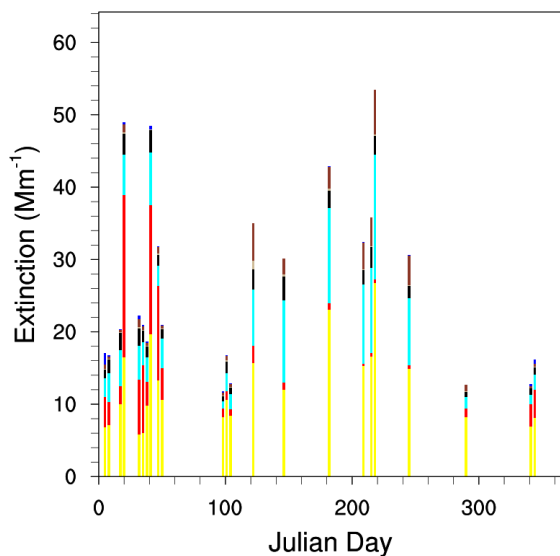
Glacier National Park, MT



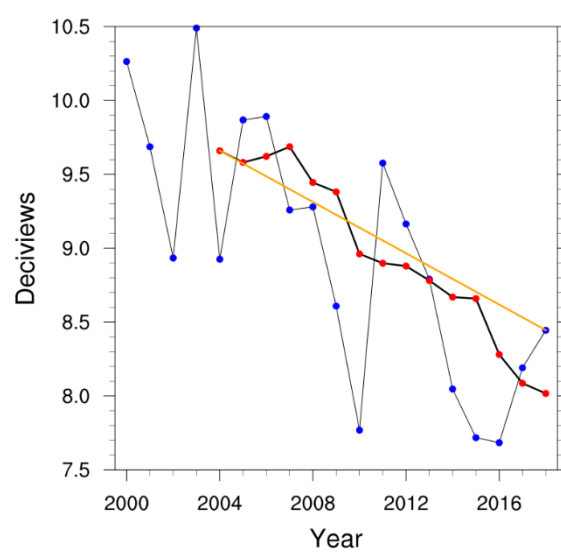
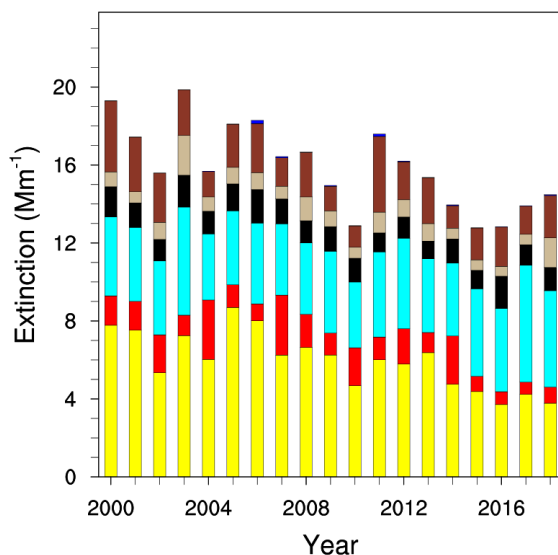
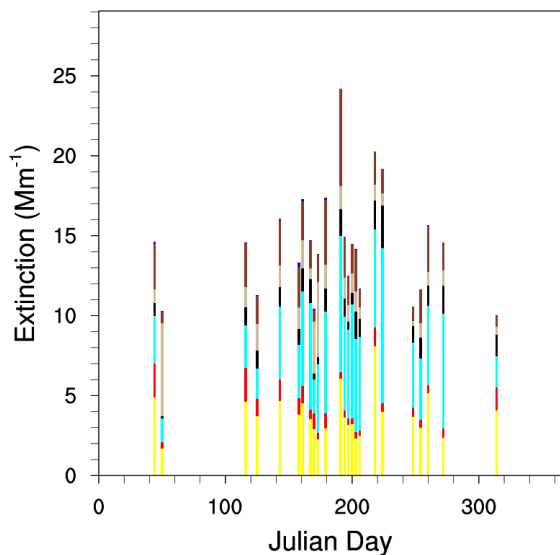
Grand Canyon National Park, AZ



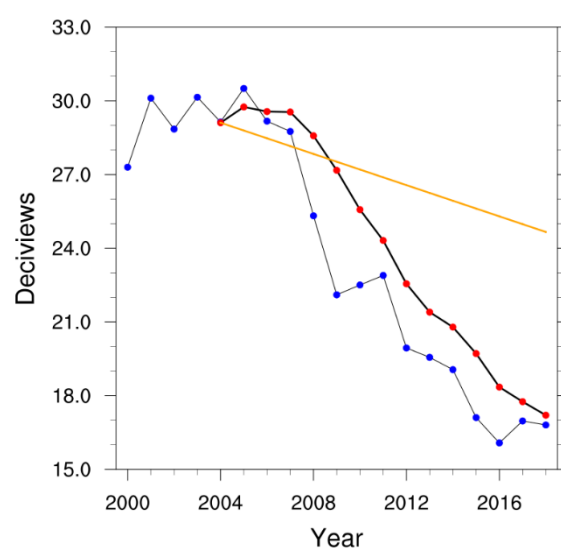
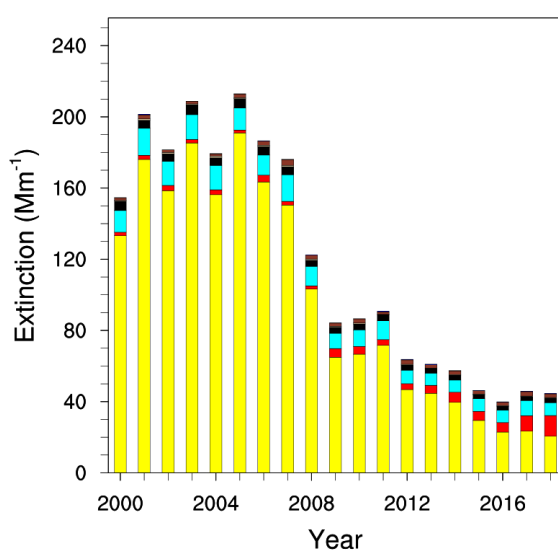
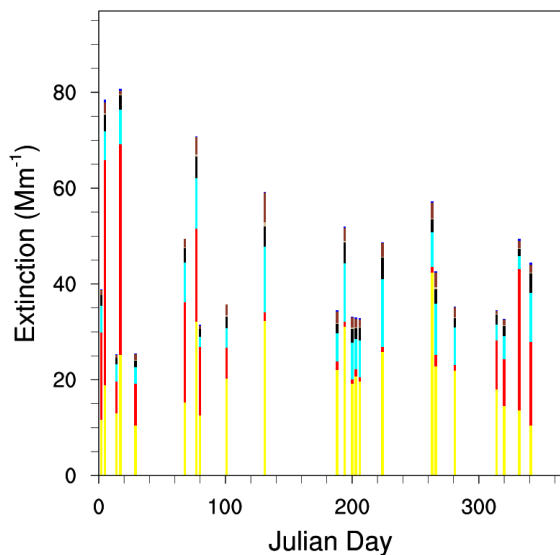
Great Gulf Wilderness, NH



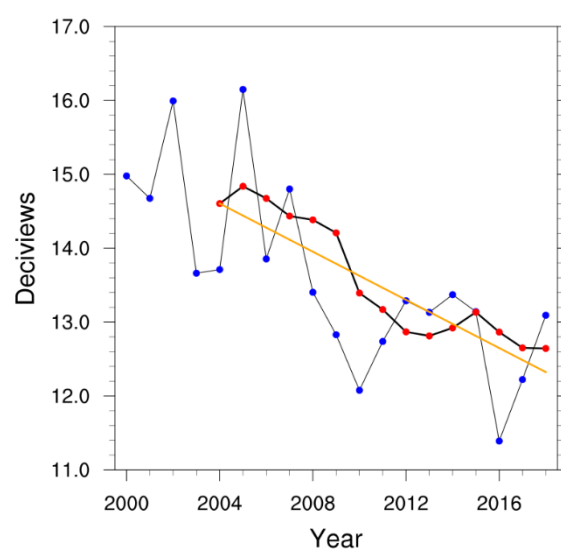
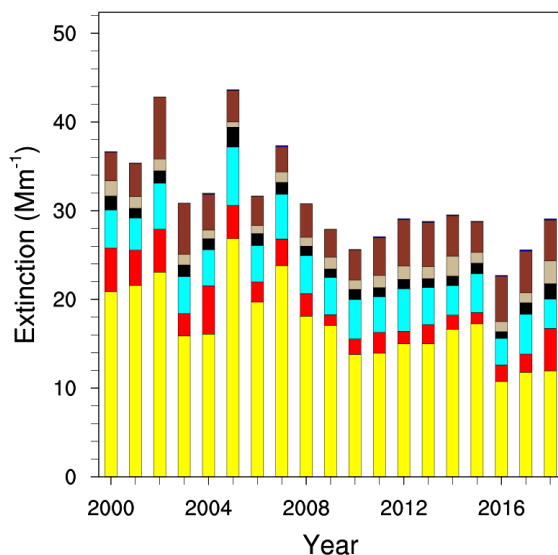
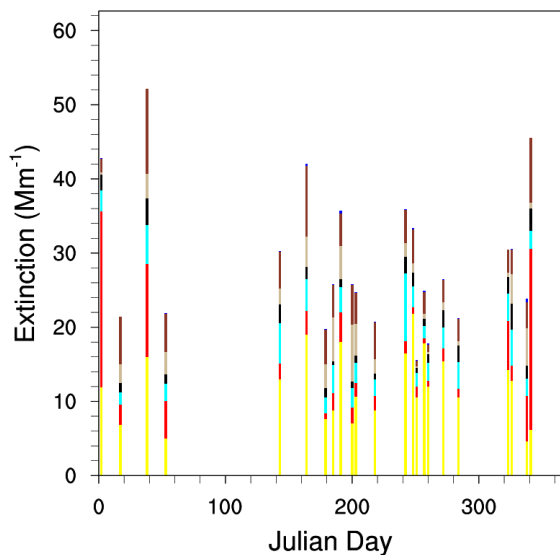
Great Sand Dunes National Monument, CO



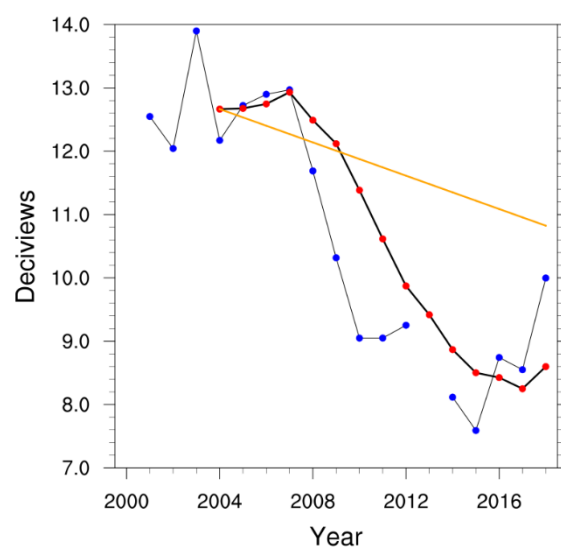
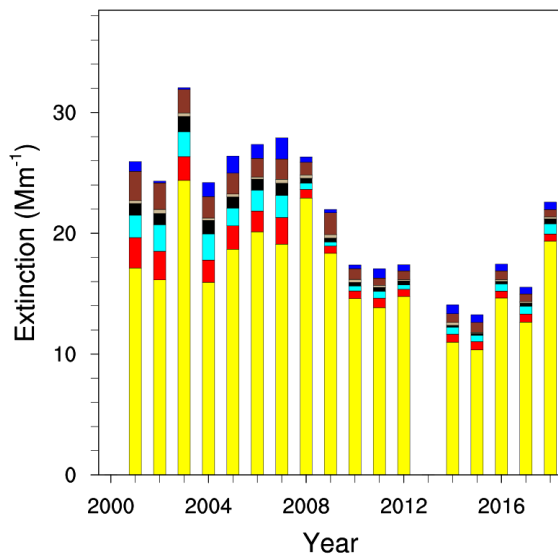
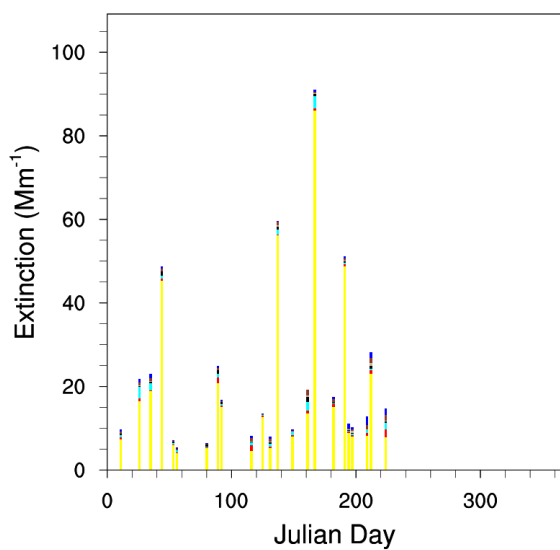
Great Smoky Mountains National Park, TN



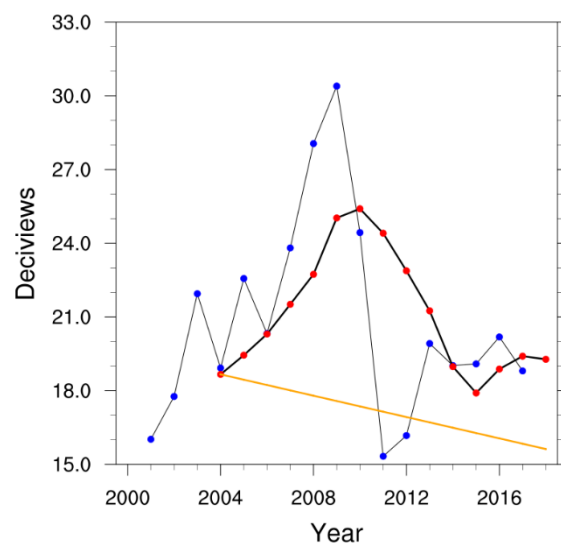
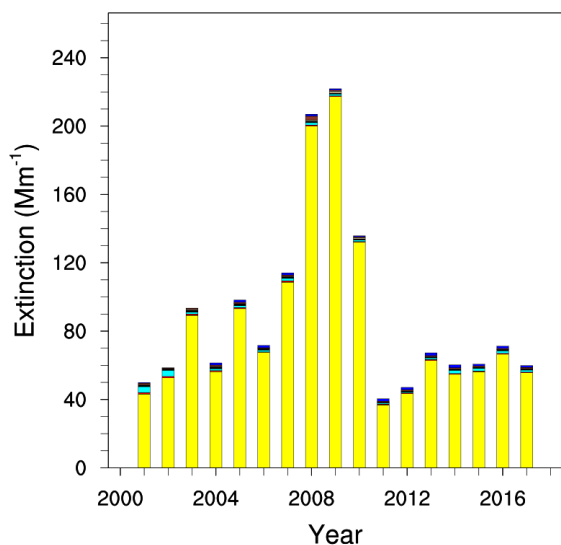
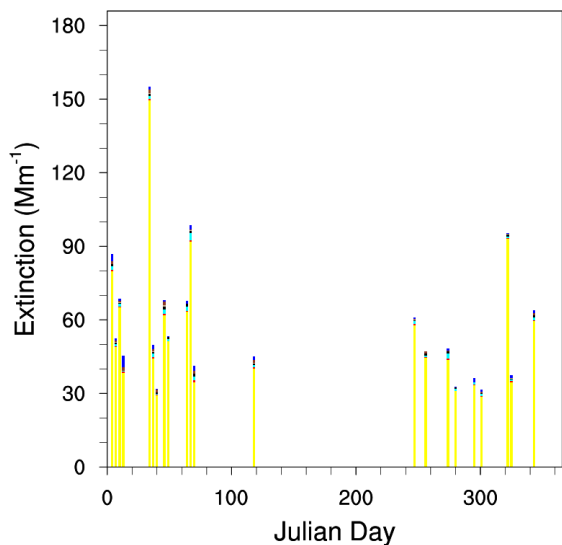
Guadalupe Mountains National Park, TX



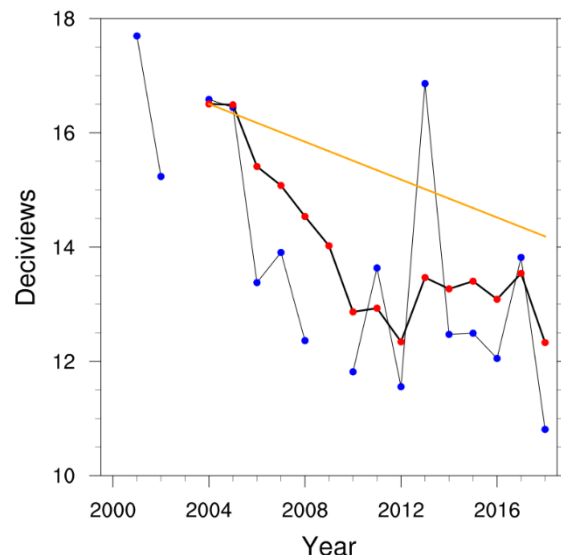
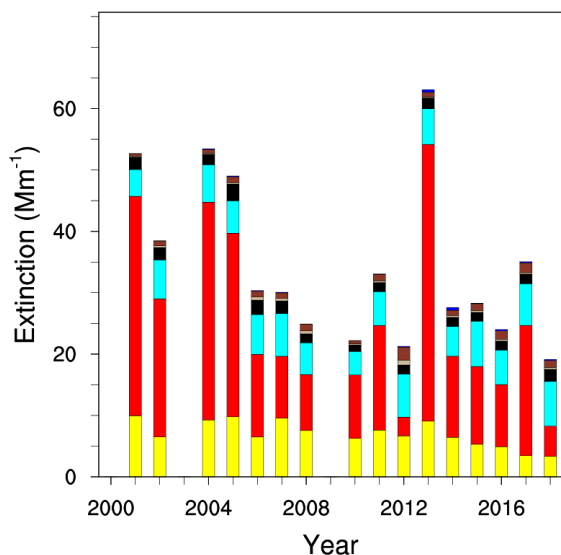
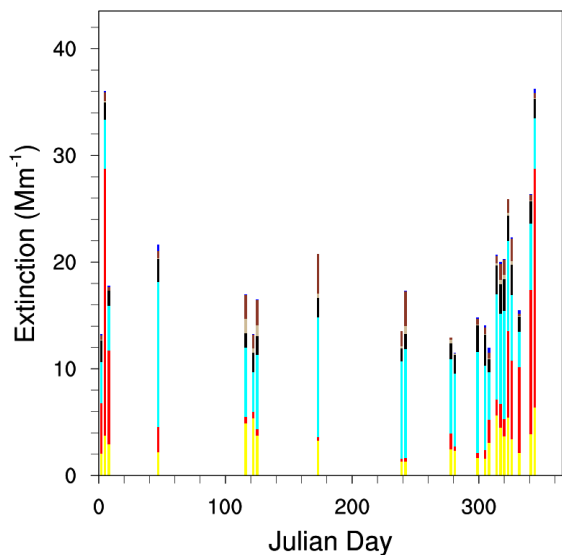
Haleakala National Park, HI (combined HALE1 and HACR1 starting 01/01/2007)



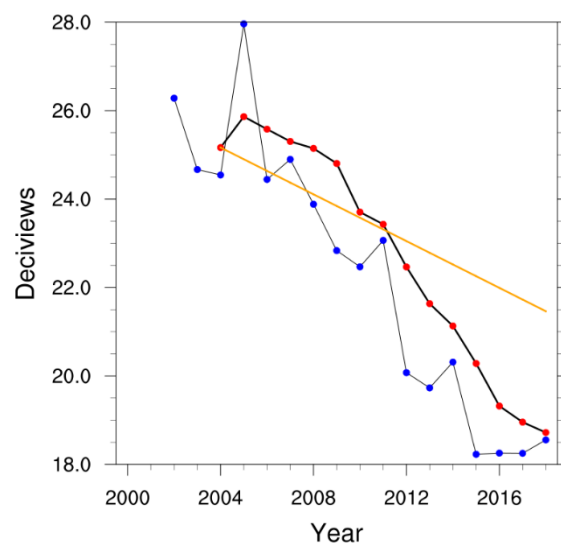
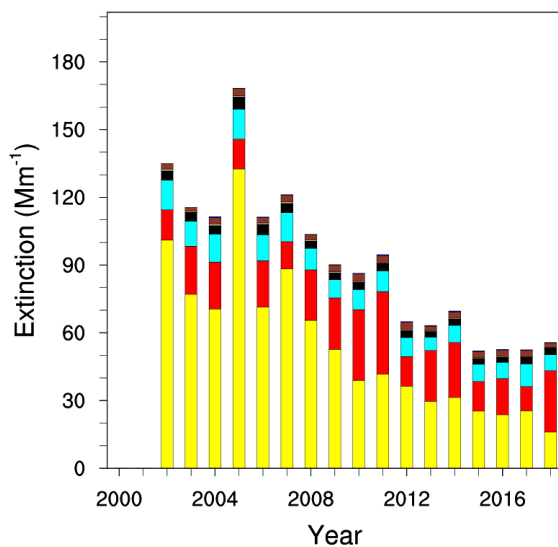
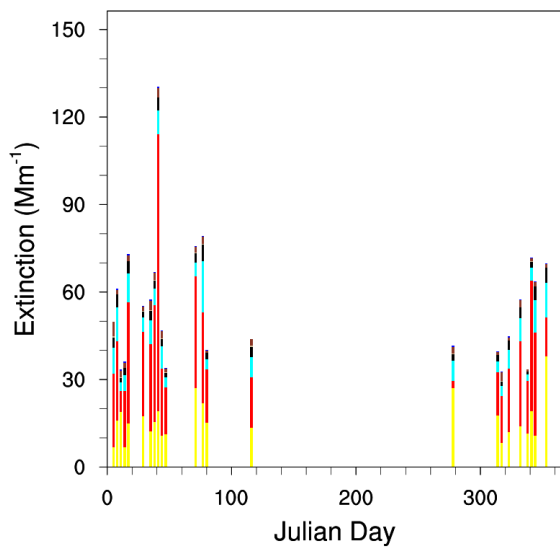
Hawaii Volcanoes National Park, HI (2017 data shown in figure to the left)



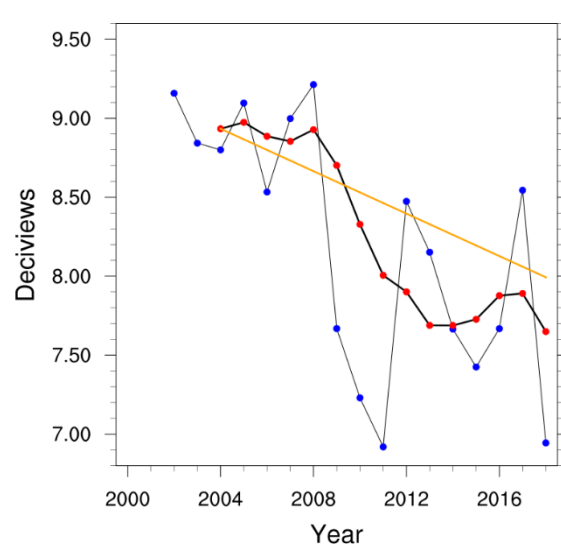
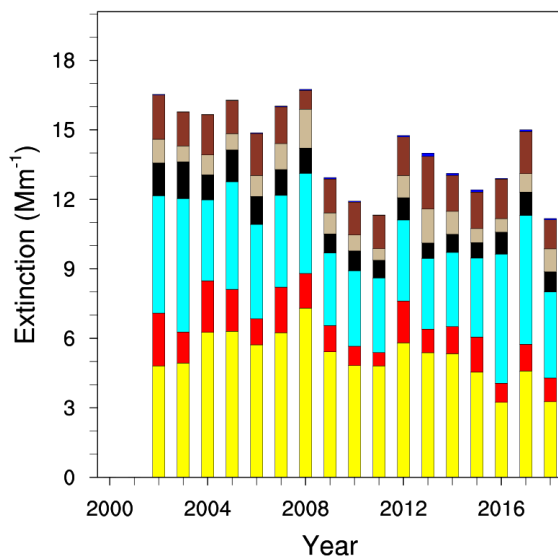
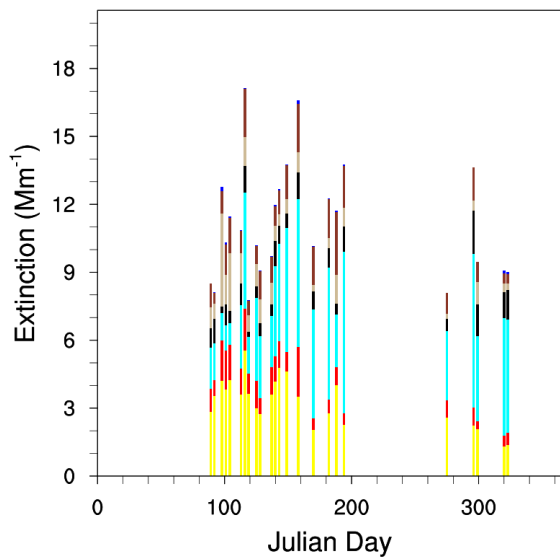
Hells Canyon, OR



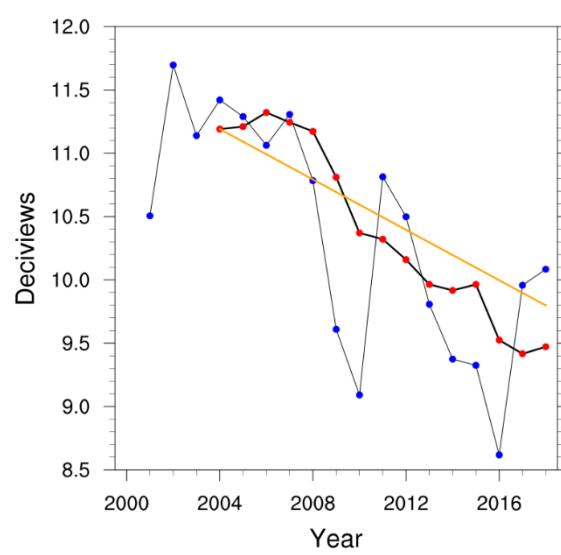
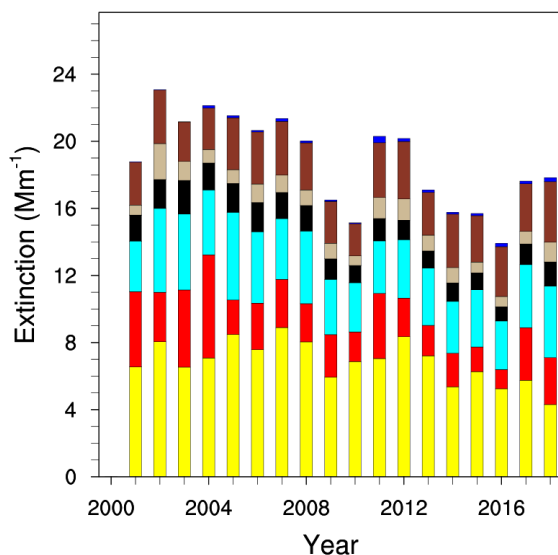
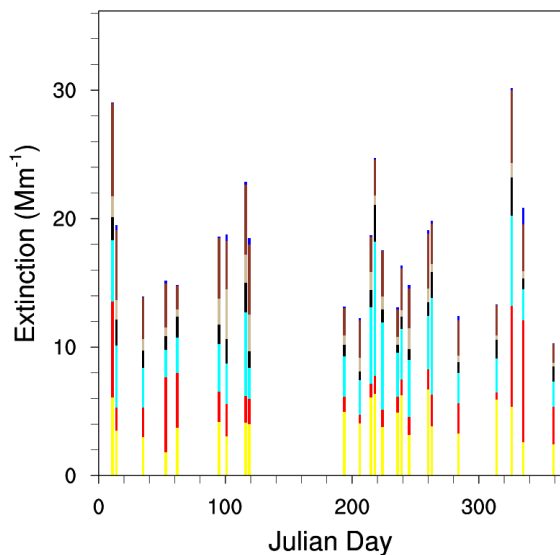
Hercules-Glades, MO



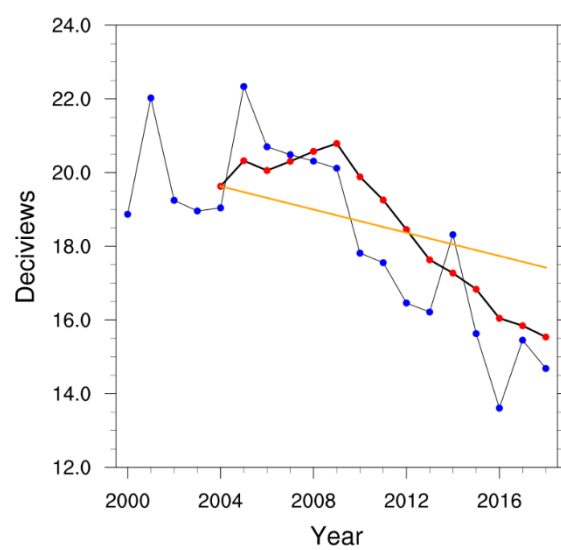
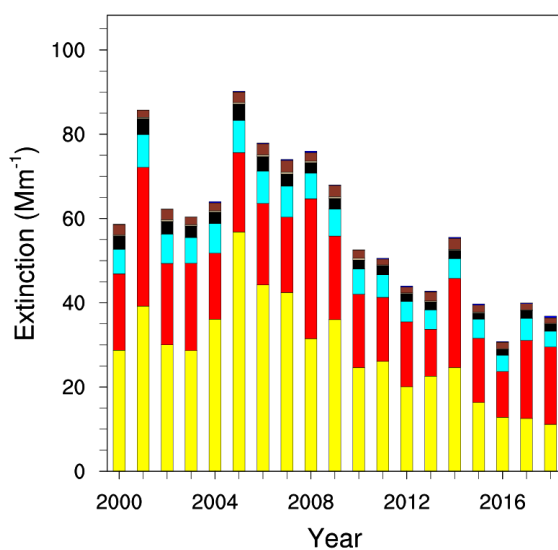
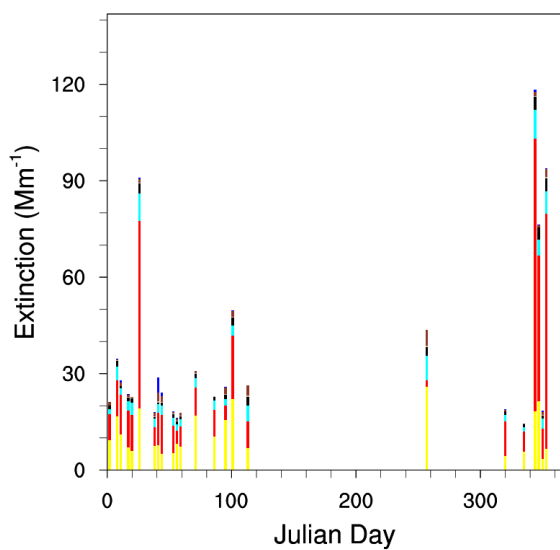
Hoover, CA



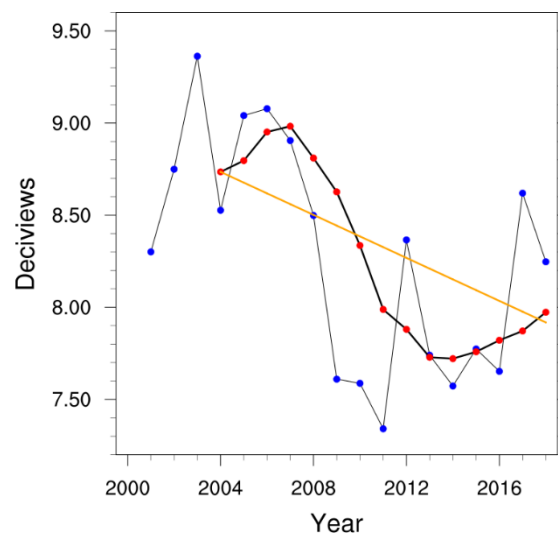
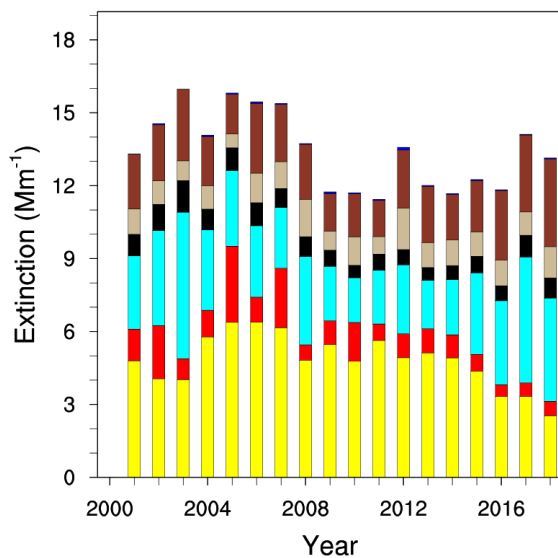
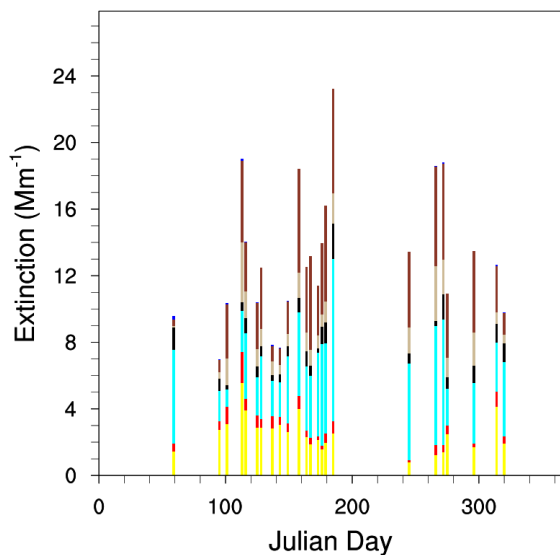
Ike's Backbone, AZ



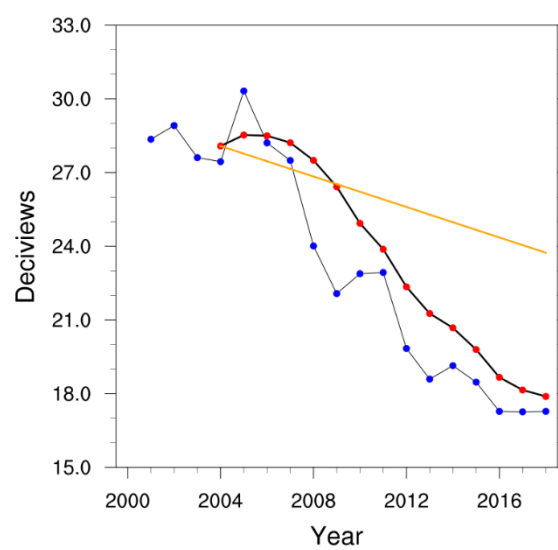
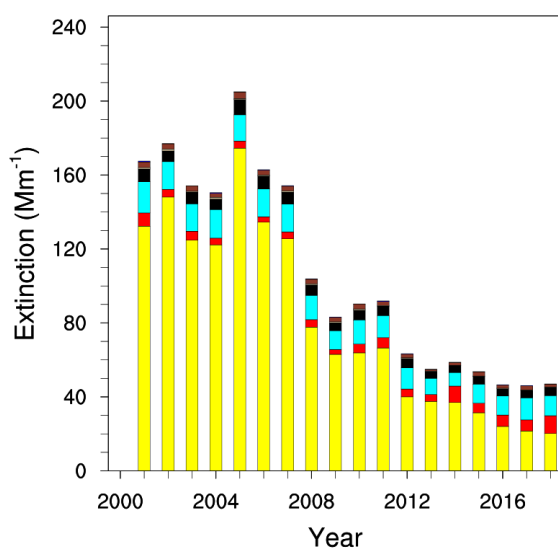
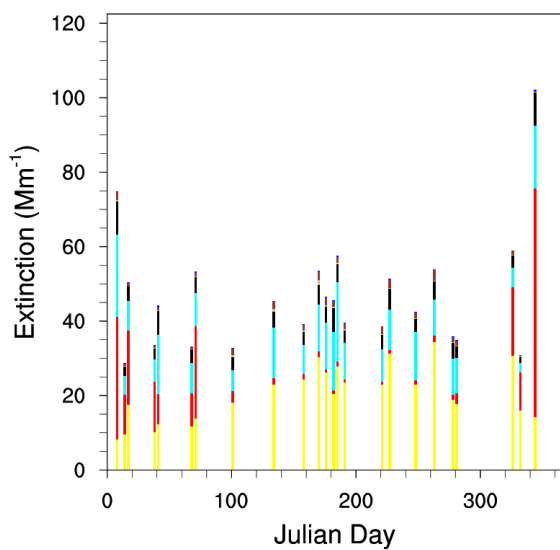
Isle Royale National Park, MI



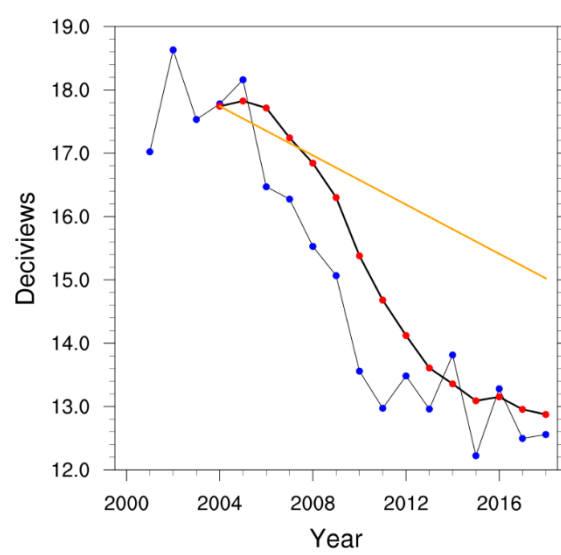
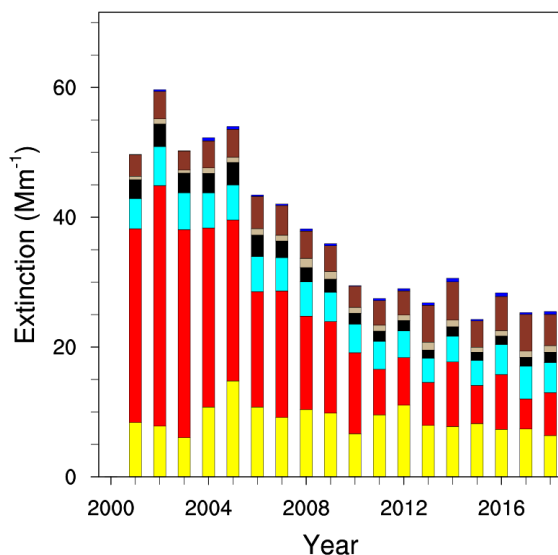
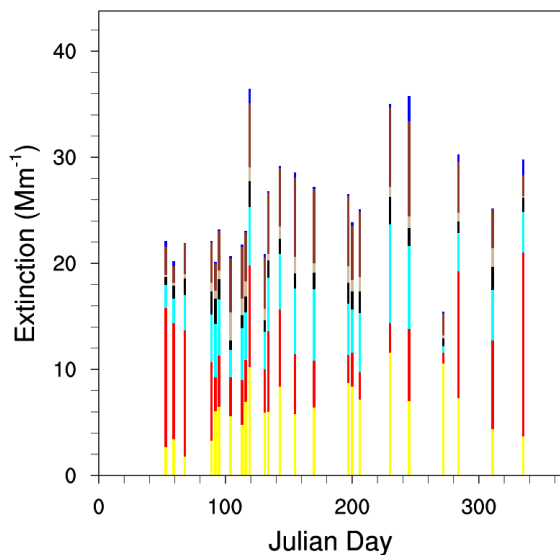
Jarbridge Wilderness, NV



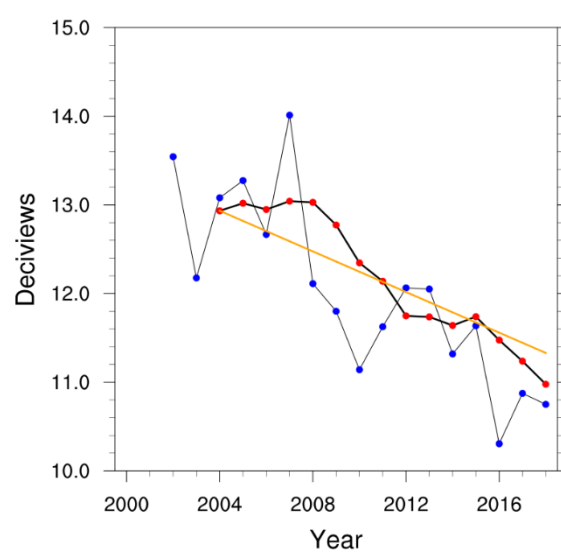
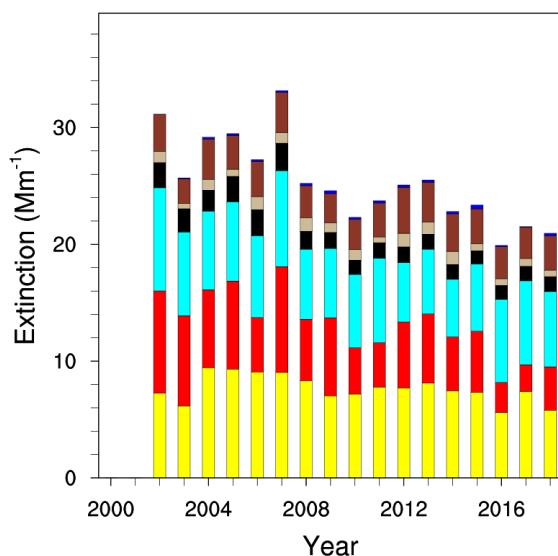
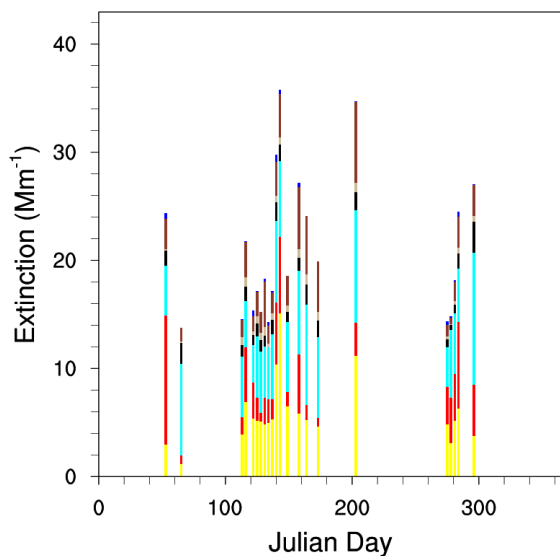
James River Face Wilderness, VA



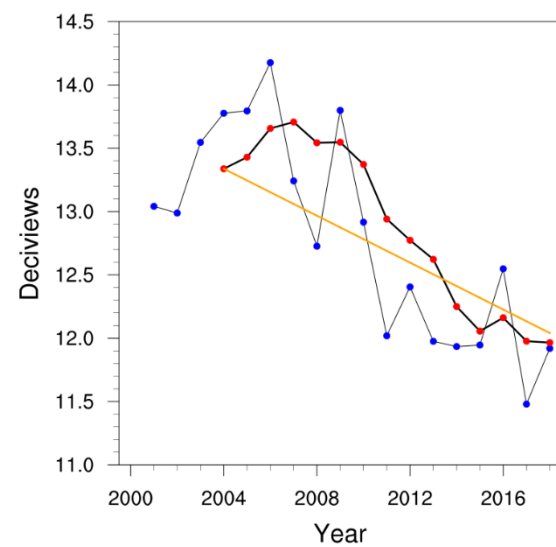
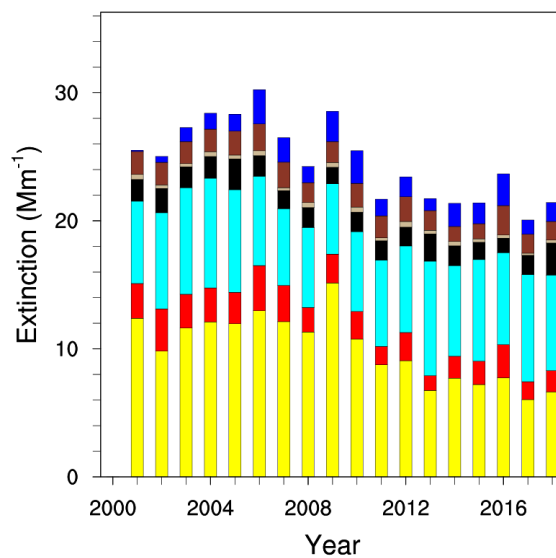
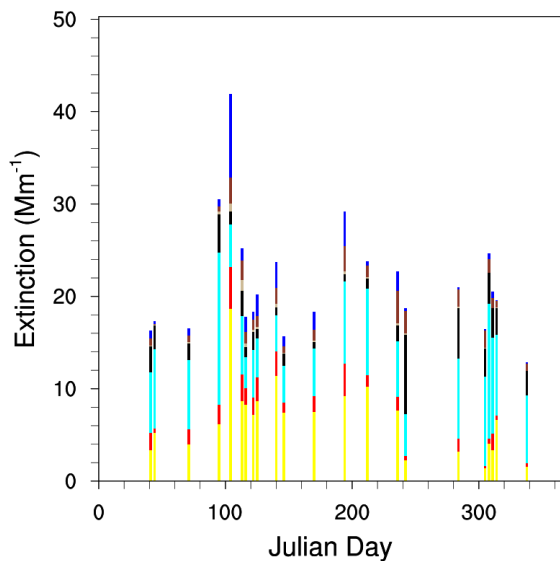
Joshua Tree National Park, CA



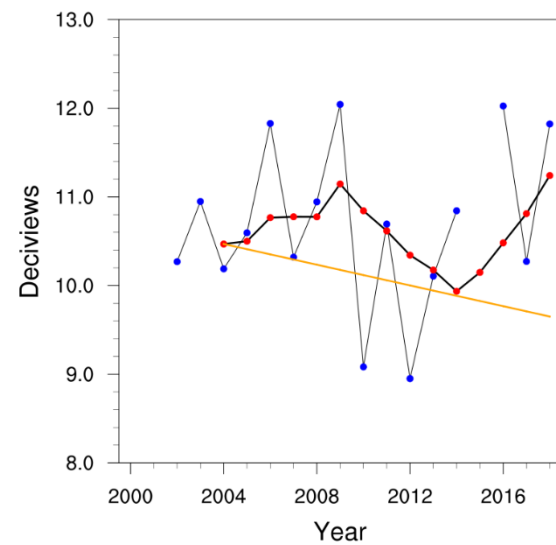
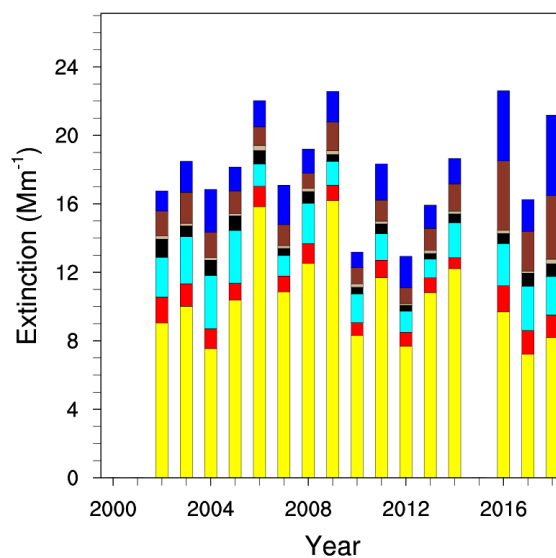
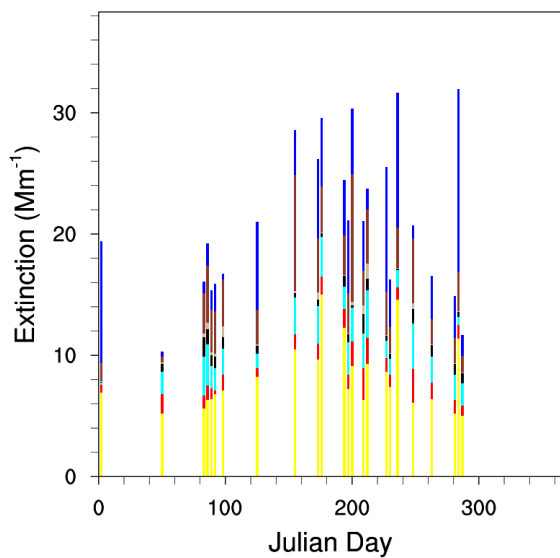
Kaiser, CA



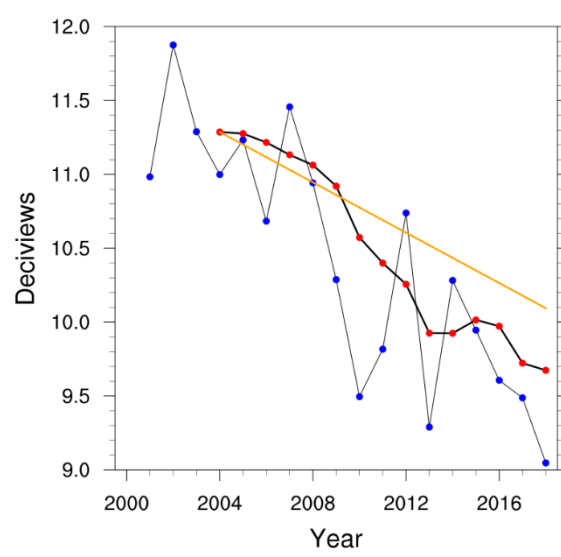
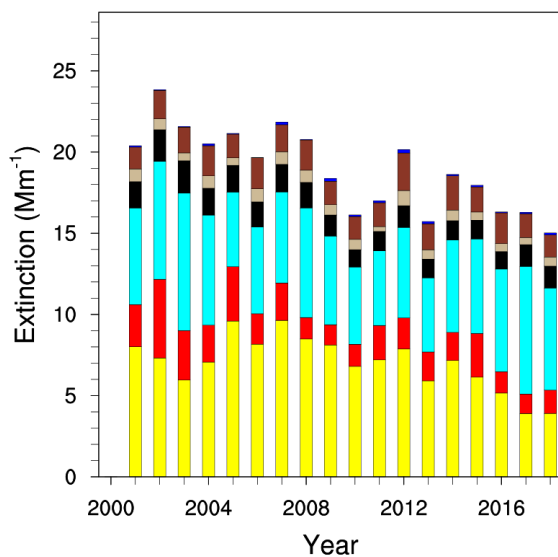
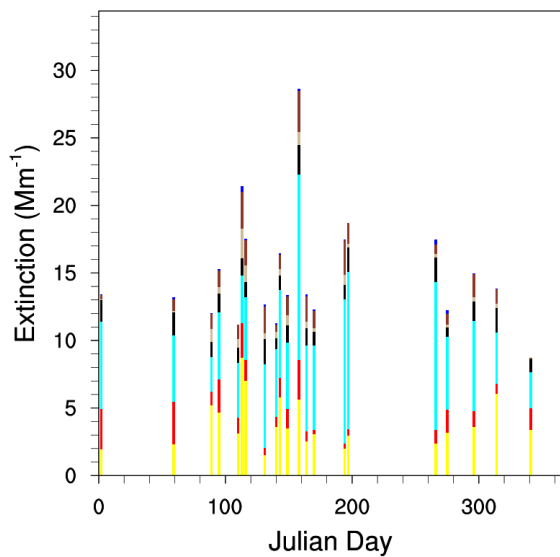
Kalmiopsis, OR



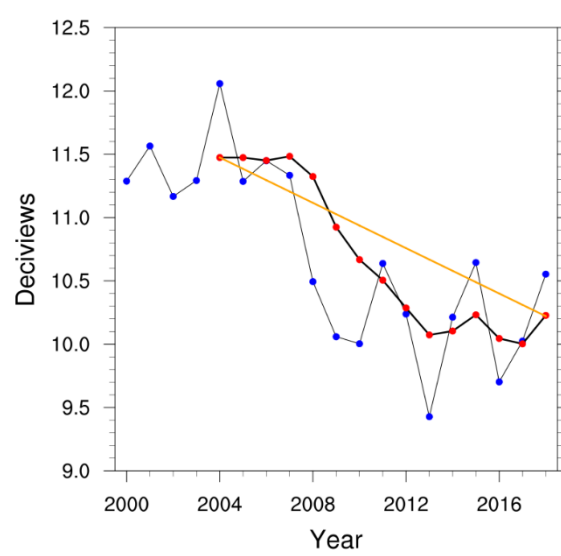
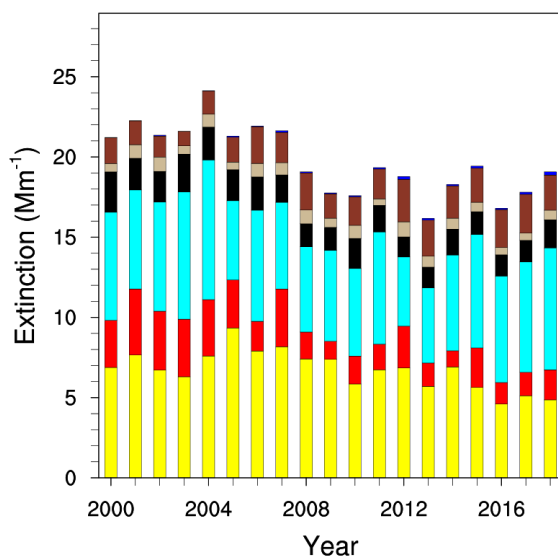
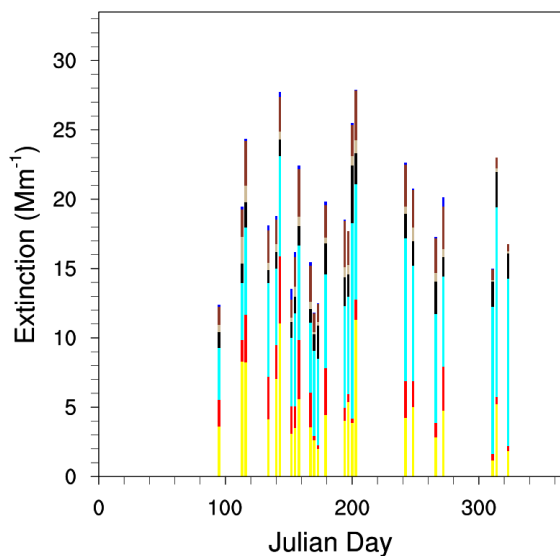
Kenai Peninsula Borough, AK (combined TUXE1 and KPBO1 starting 01-01-15)



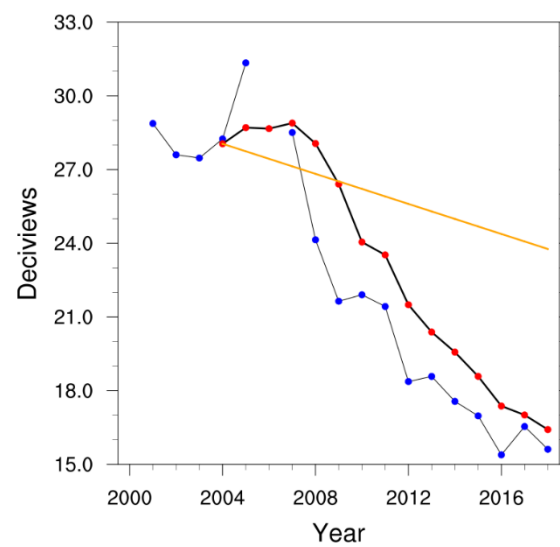
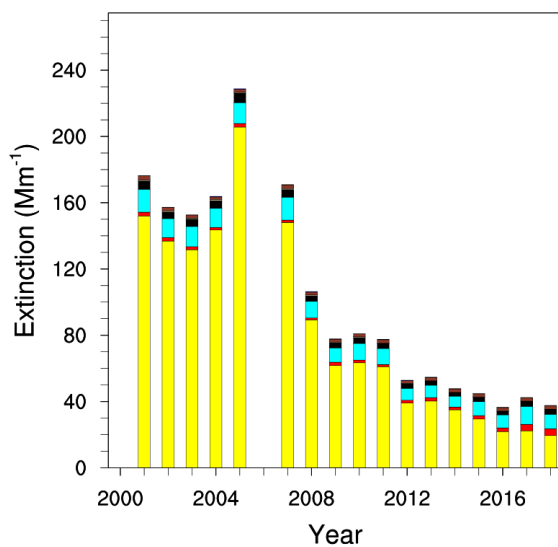
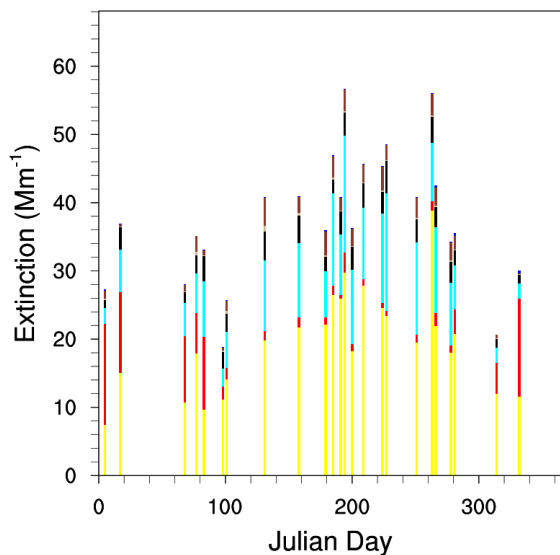
Lava Beds National Monument, CA



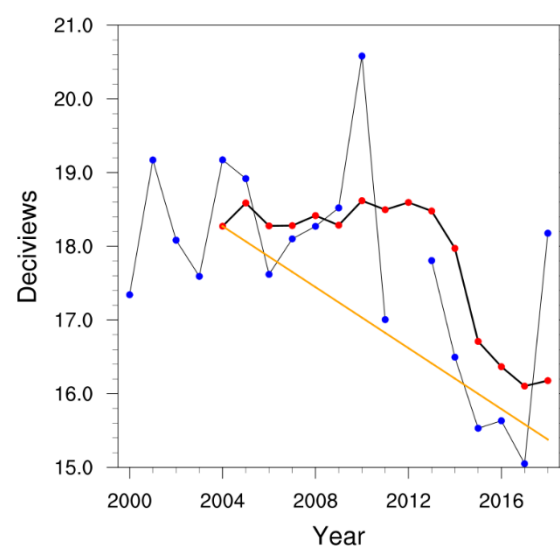
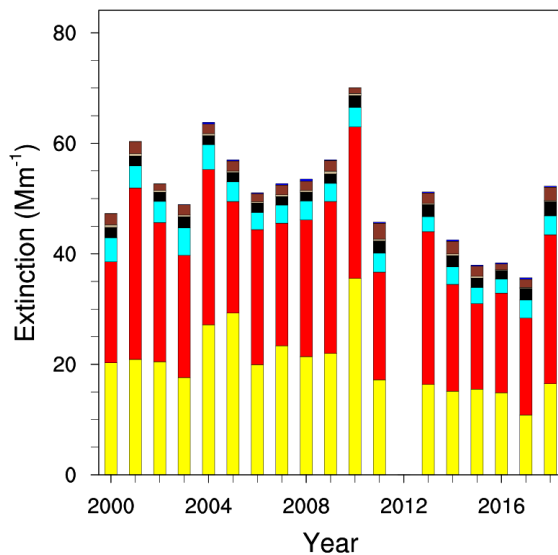
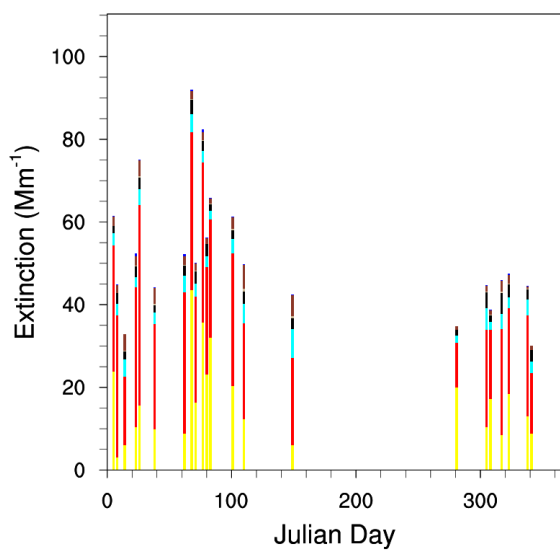
Lassen Volcanic National Park, CA



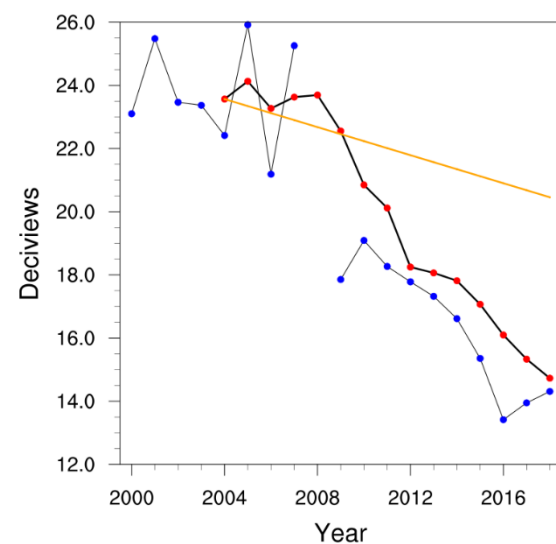
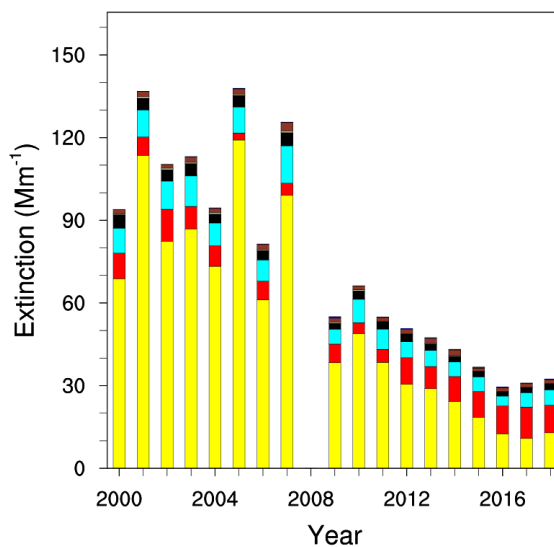
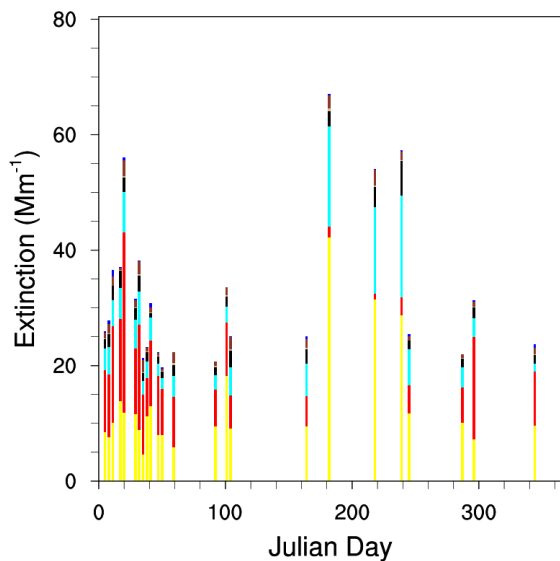
Linville Gorge, NC



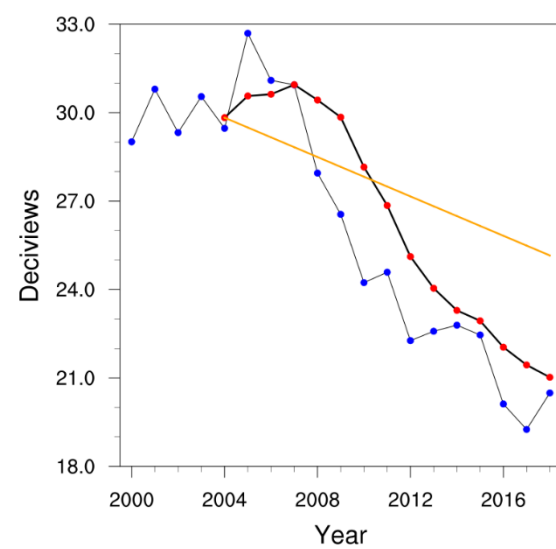
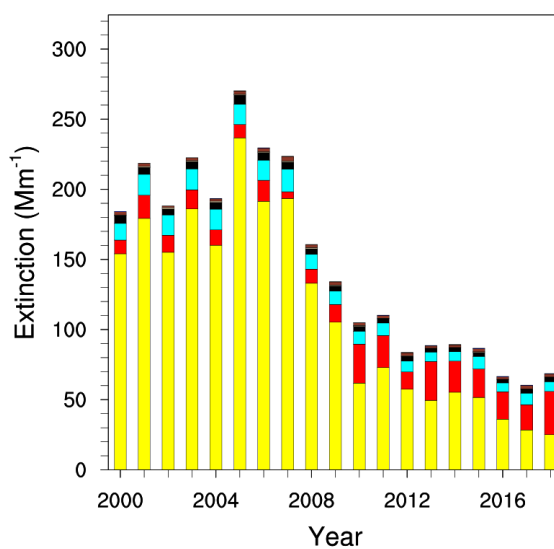
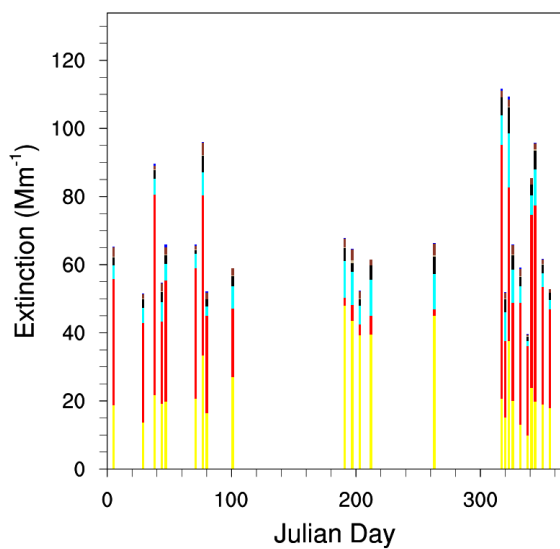
Lostwood, ND



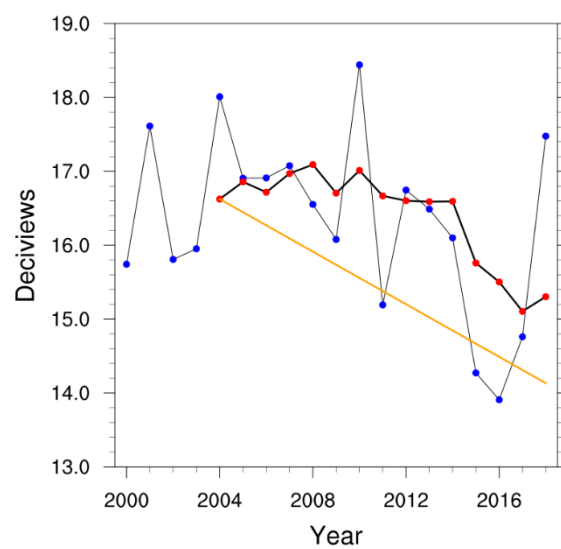
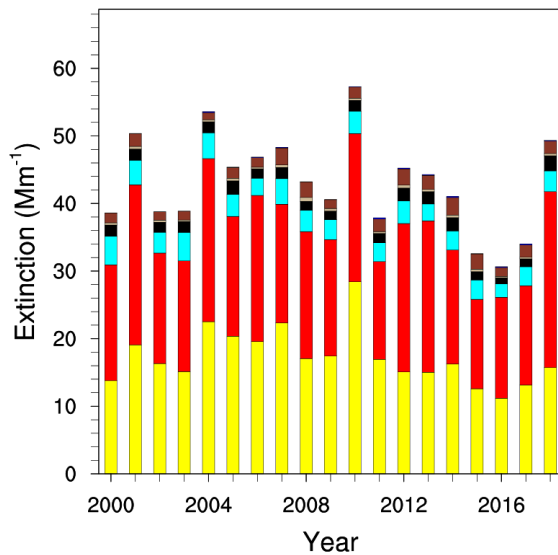
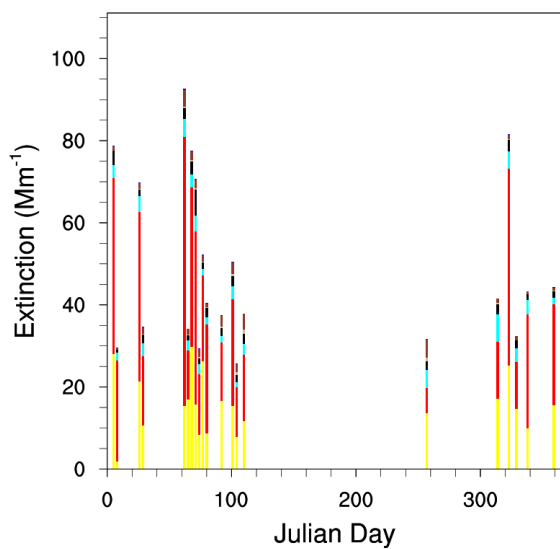
Lye Brook Wilderness, VT (combined LYBR1 and LYEB1 starting 01/01/2012)



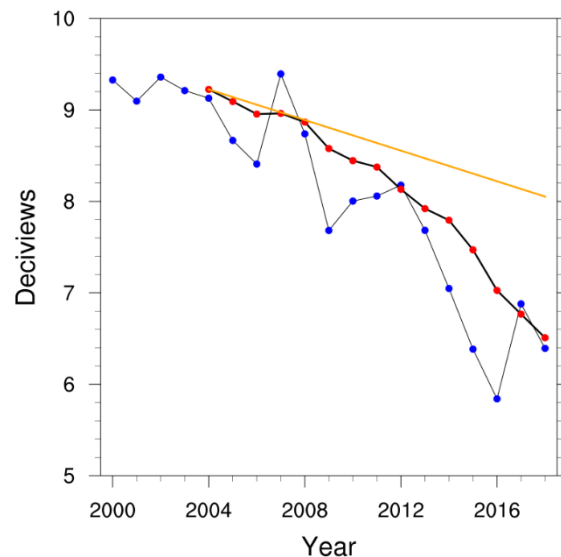
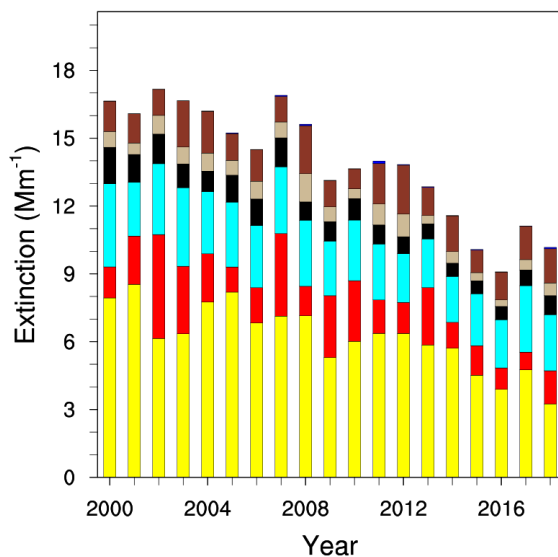
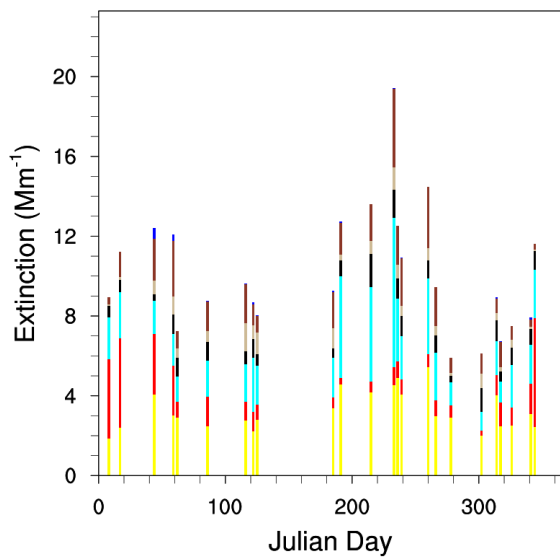
Mammoth Cave National Park, KY



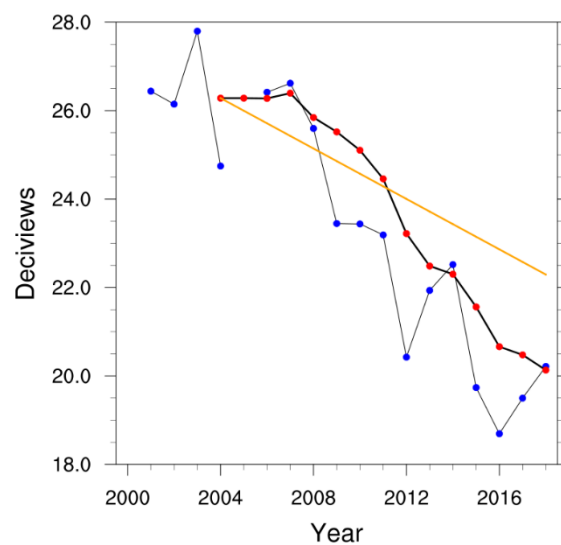
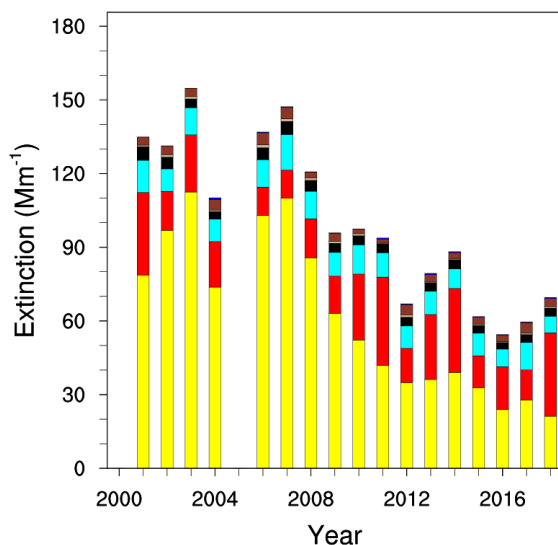
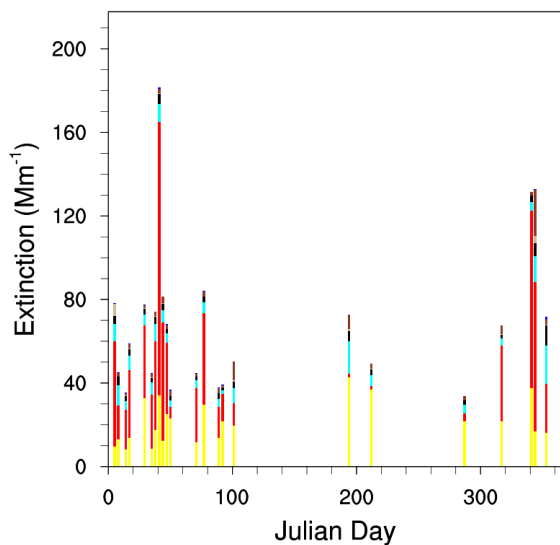
Medicine Lake, MT



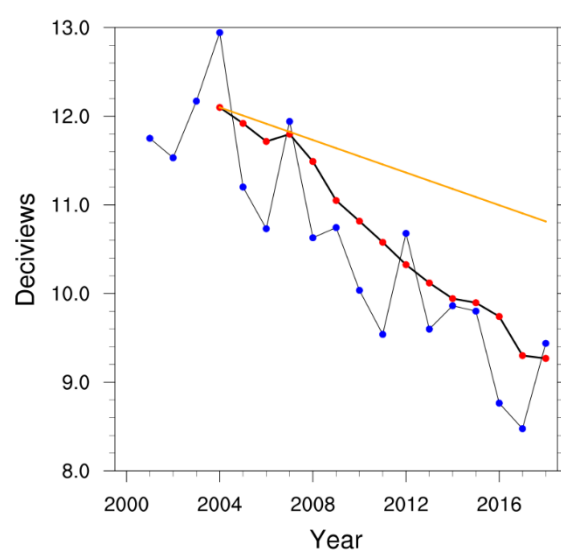
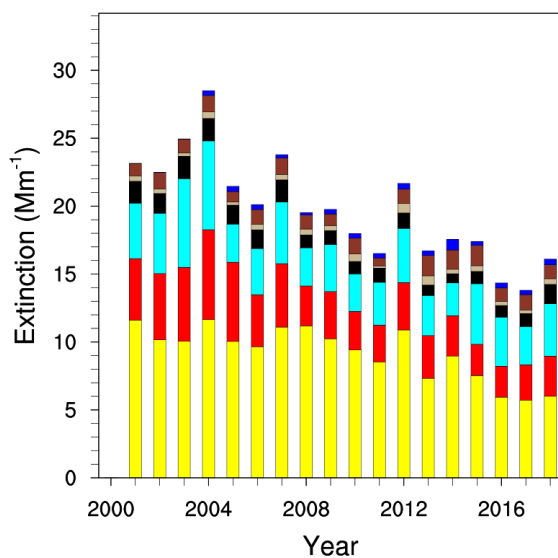
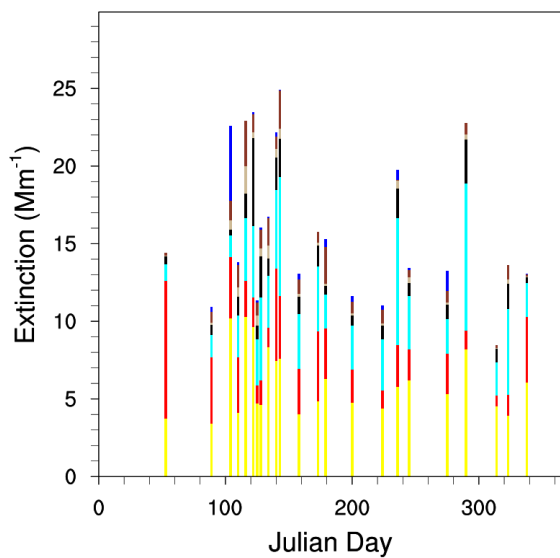
Mesa Verde National Park, CO



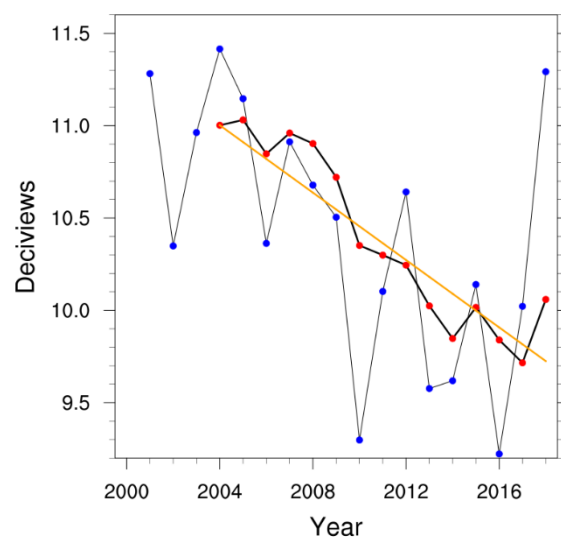
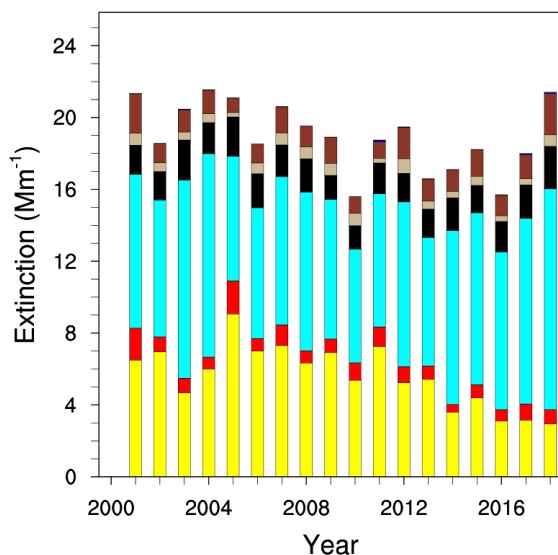
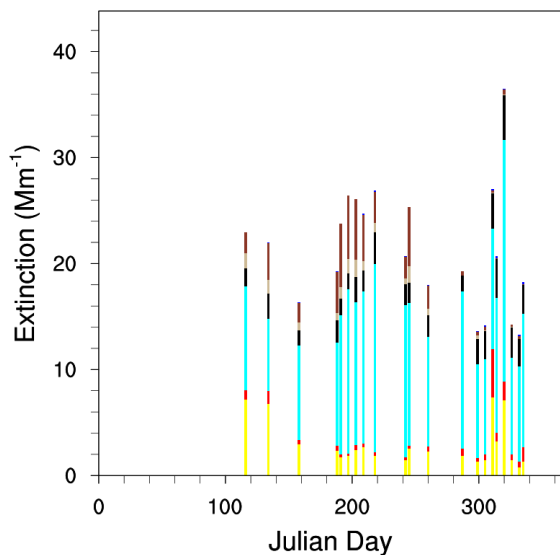
Mingo, MO



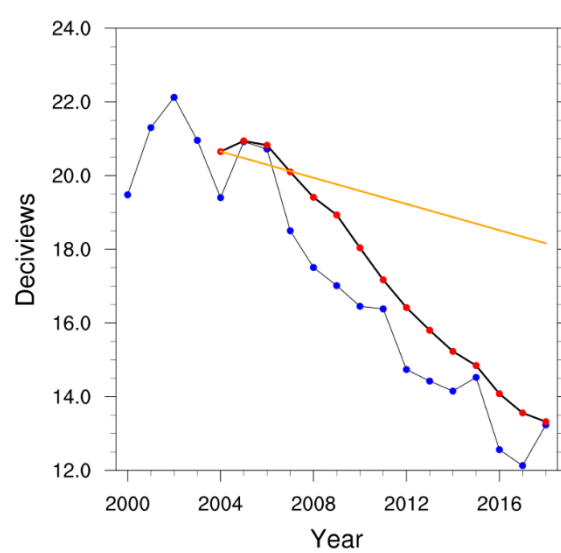
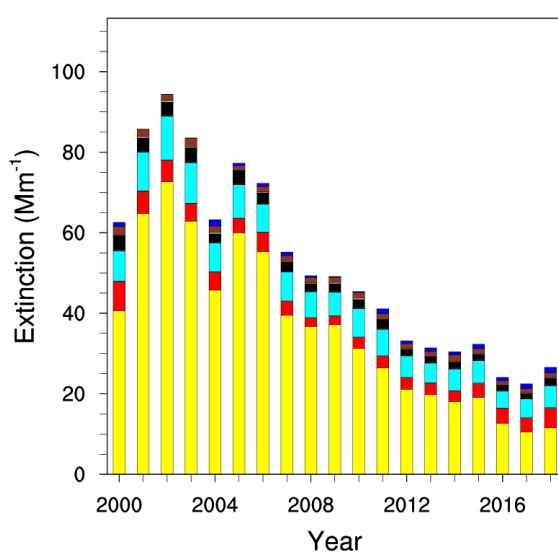
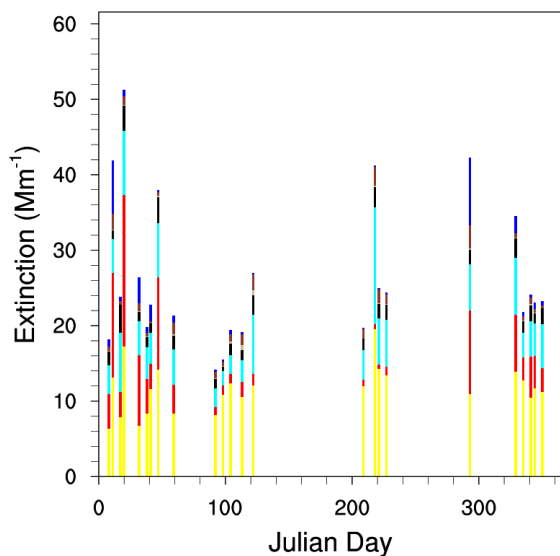
Mount Hood, OR



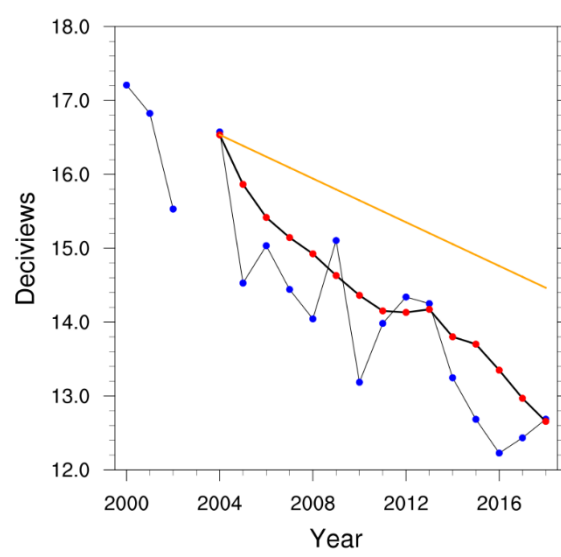
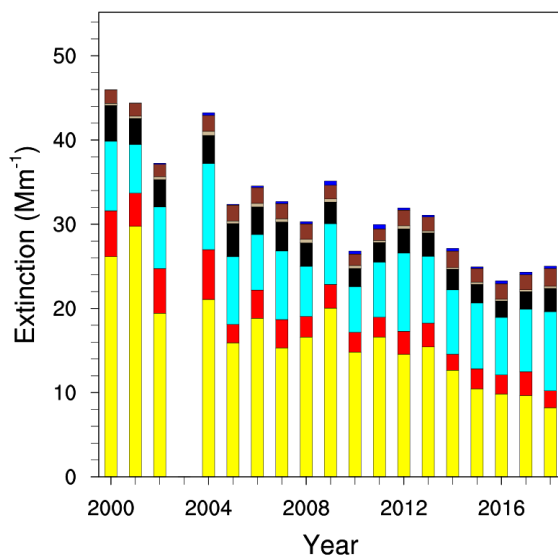
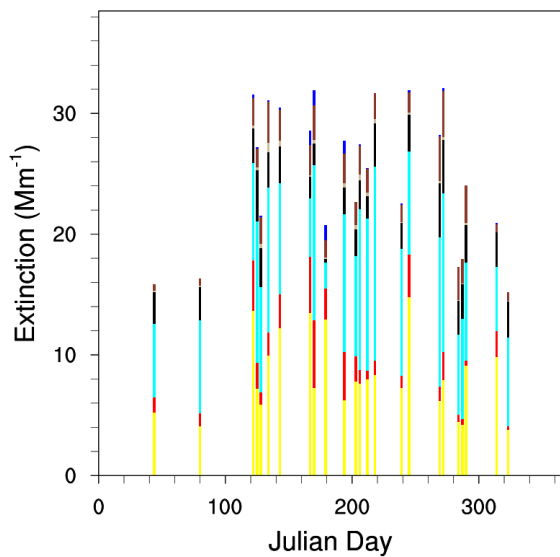
Monture, MT



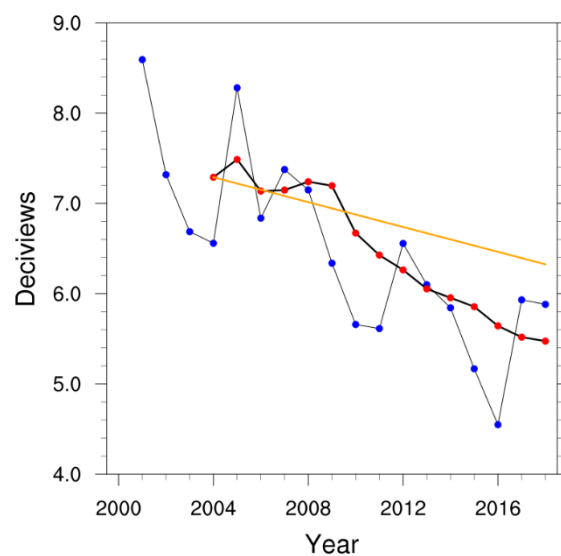
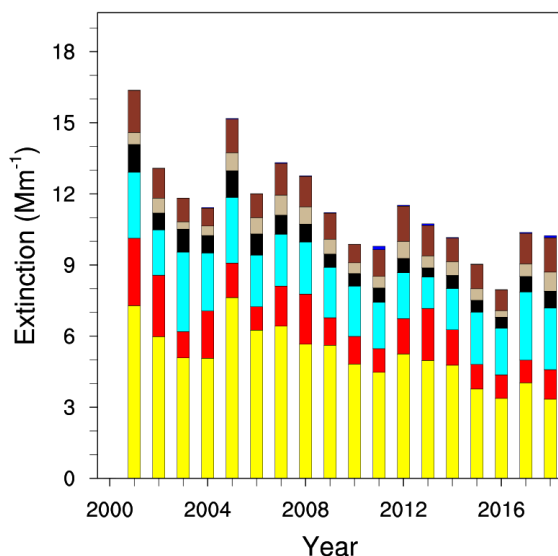
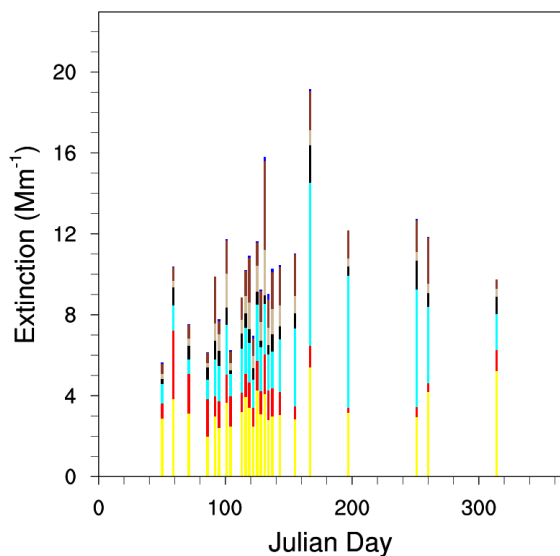
Moosehorn National Wildlife Refuge, ME



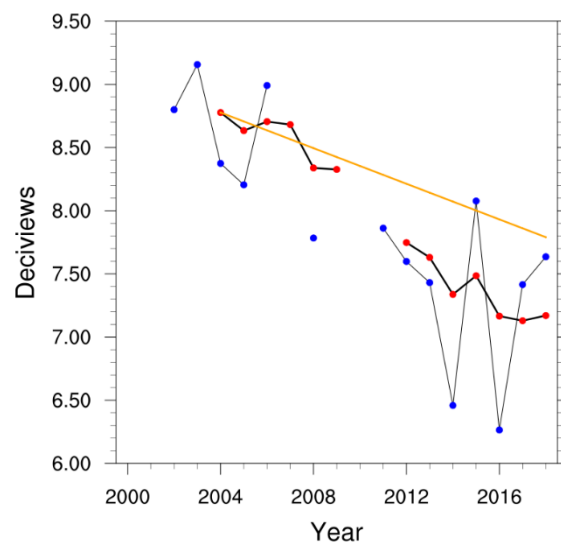
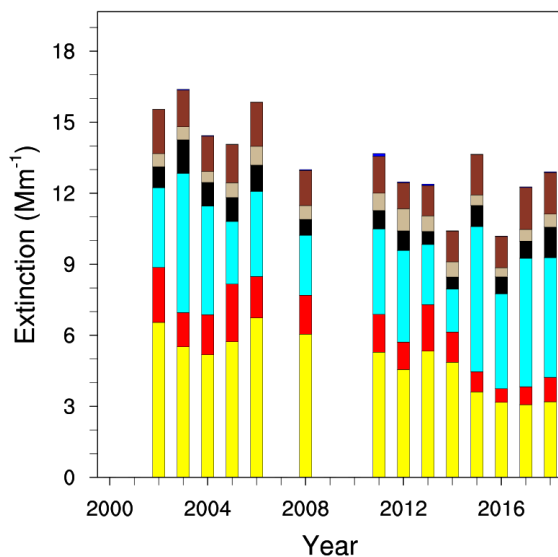
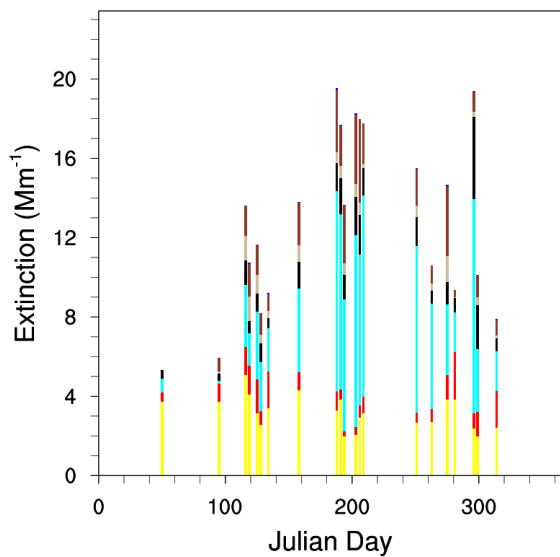
Mount Rainier National Park, WA



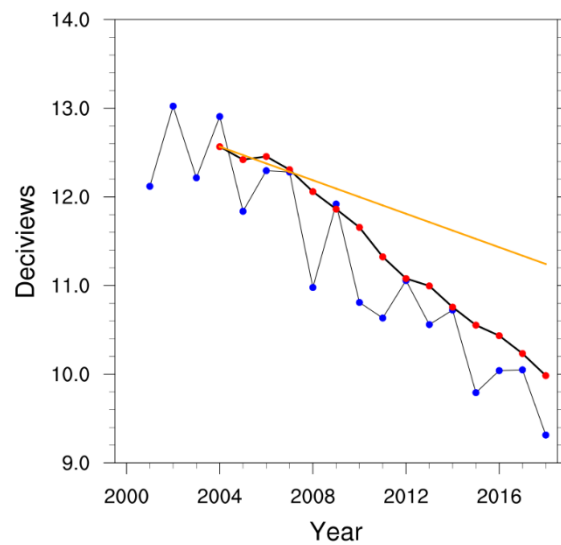
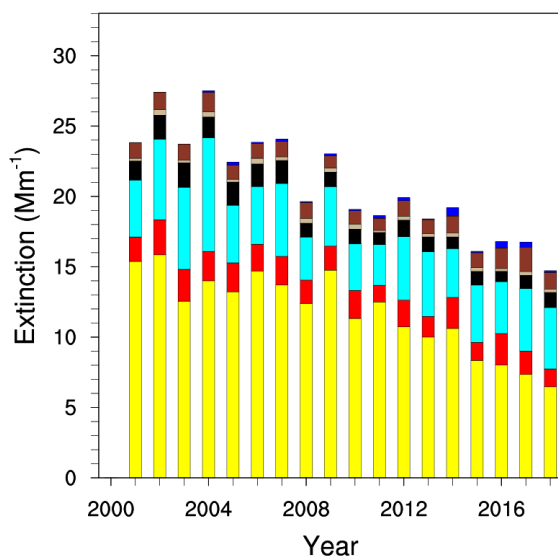
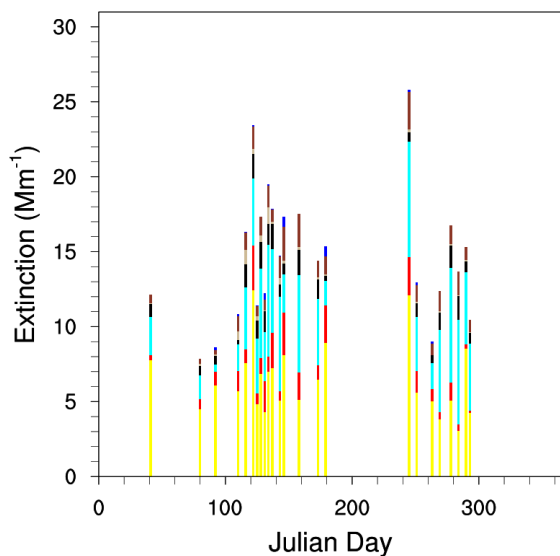
Mount Zirkel Wilderness, CO



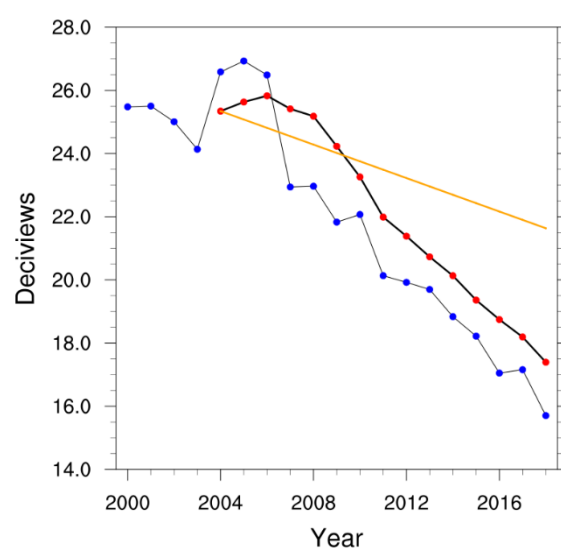
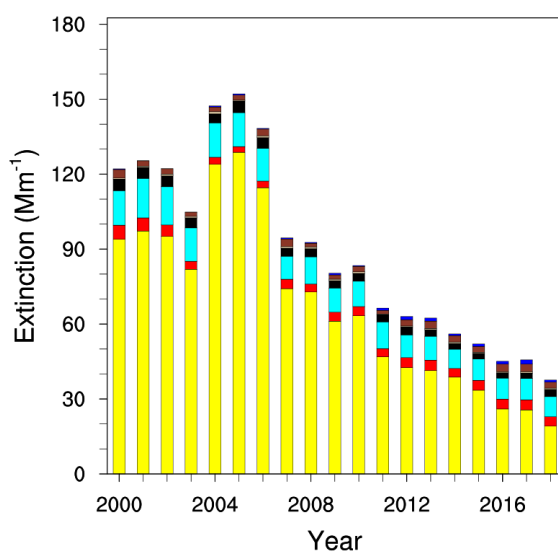
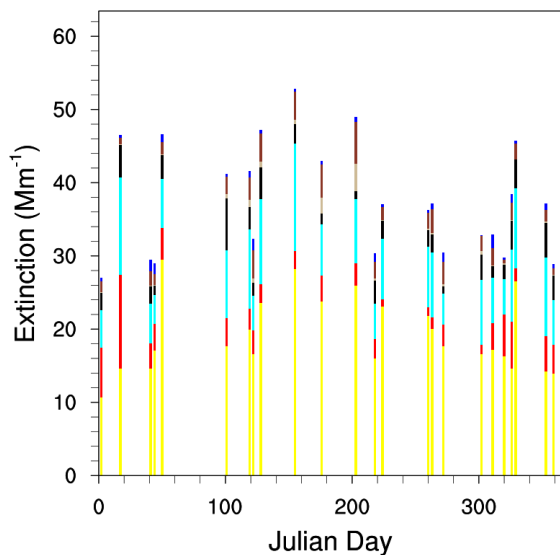
North Absaroka, WY



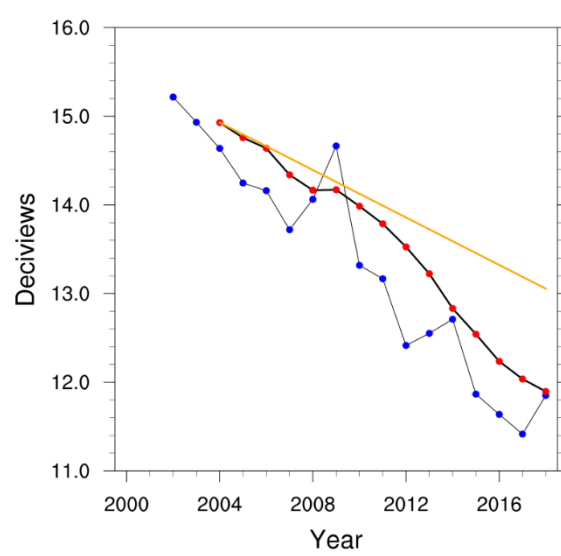
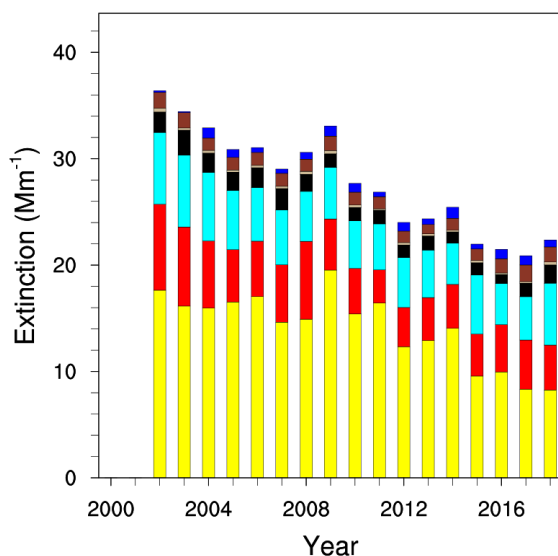
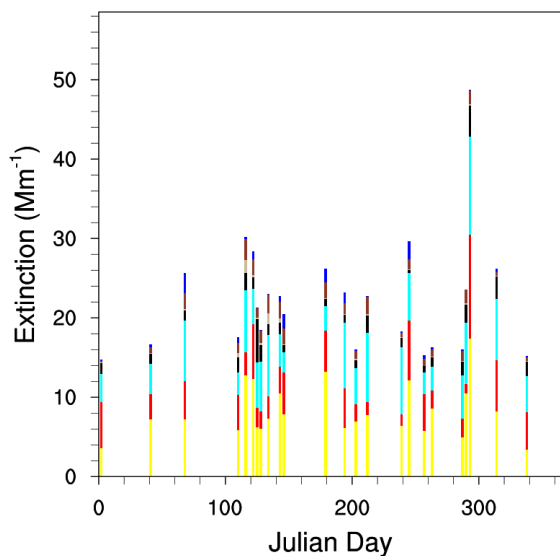
North Cascades National Park, WA



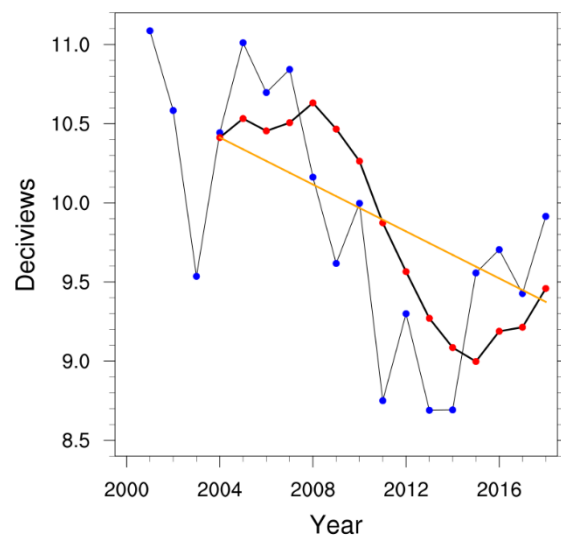
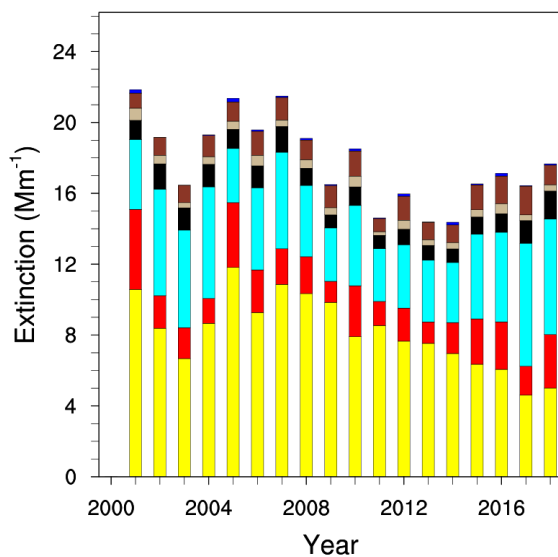
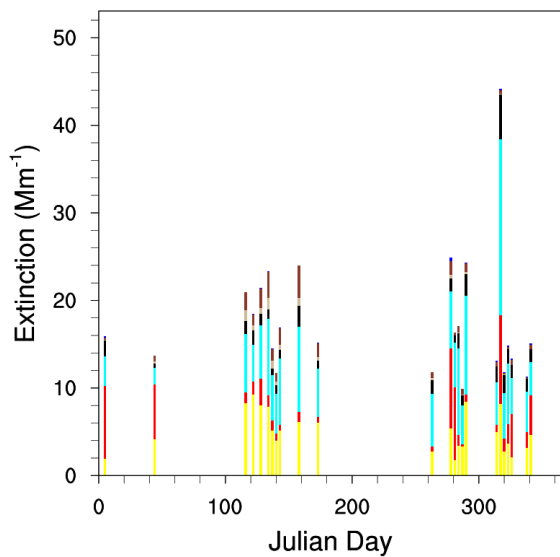
Okefenokee National Wildlife Refuge, GA



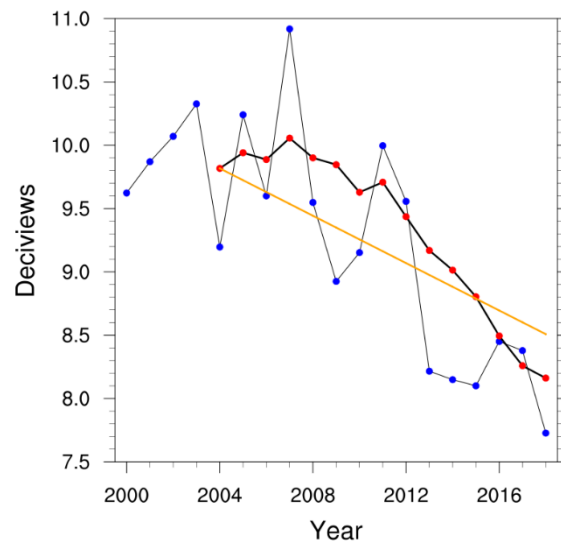
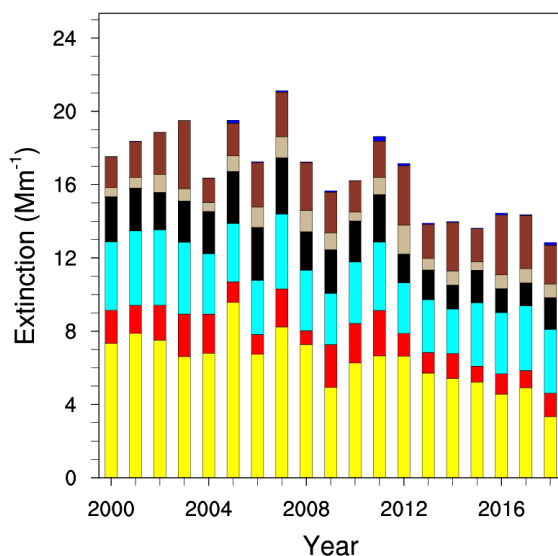
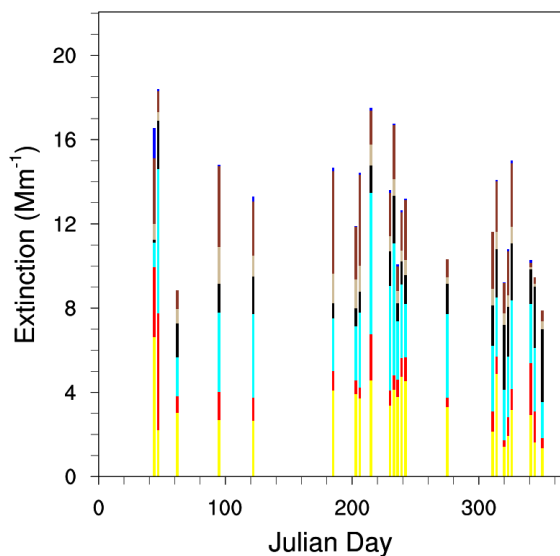
Olympic National Park, WA



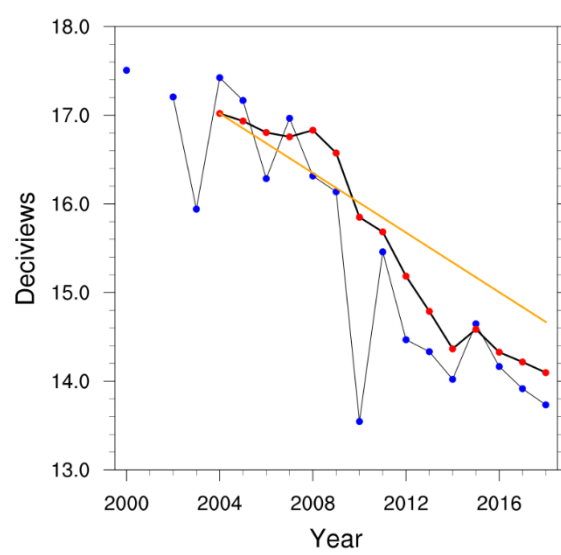
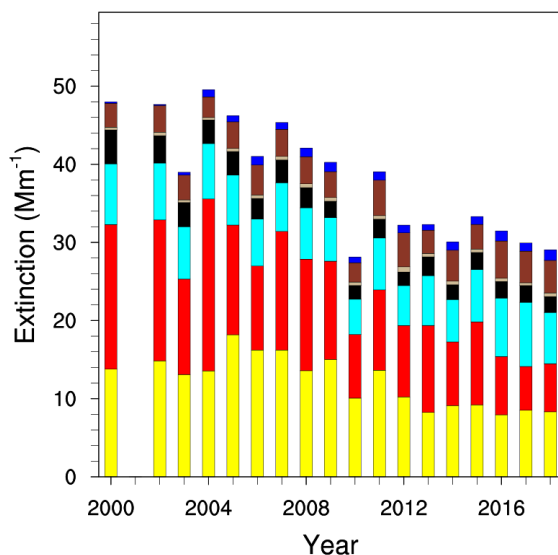
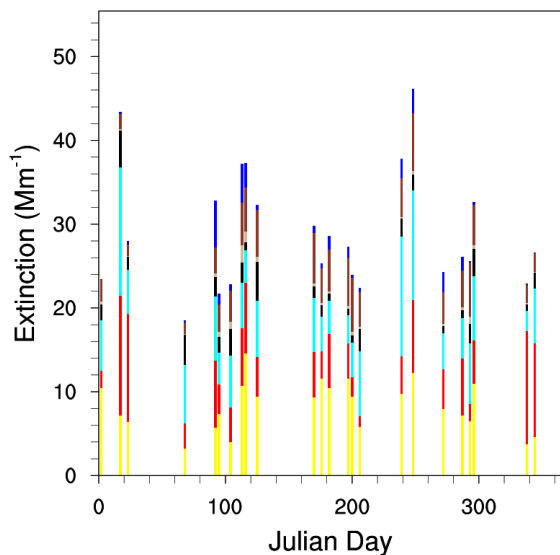
Pasayten, WA



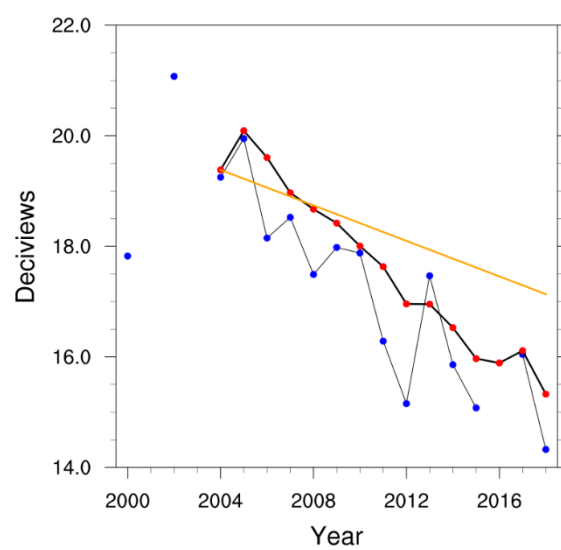
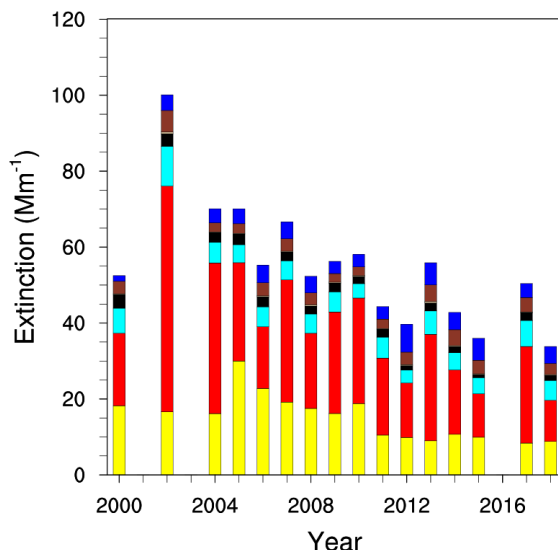
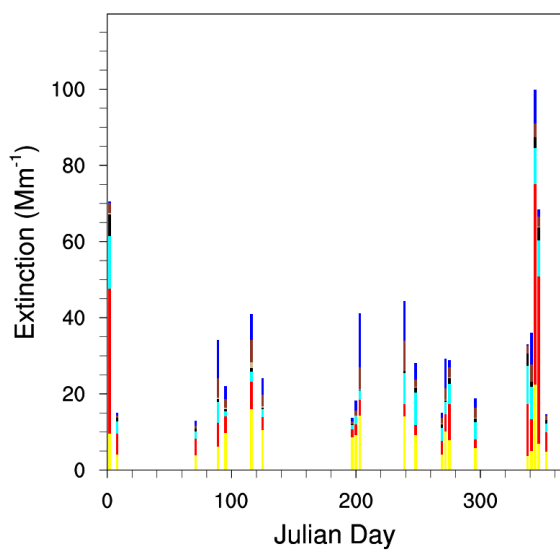
Petrified Forest National Park, AZ



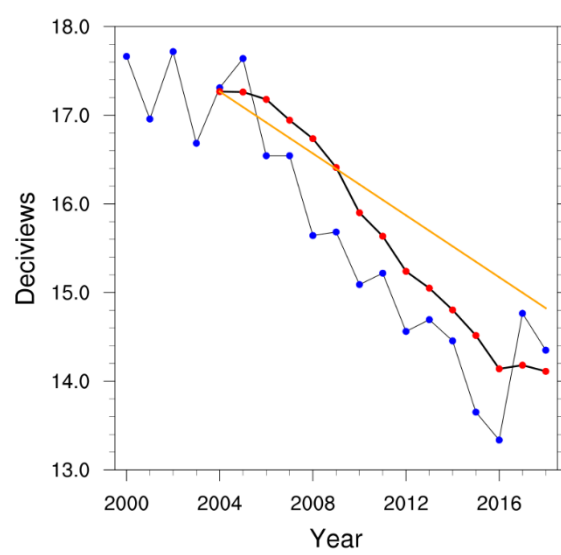
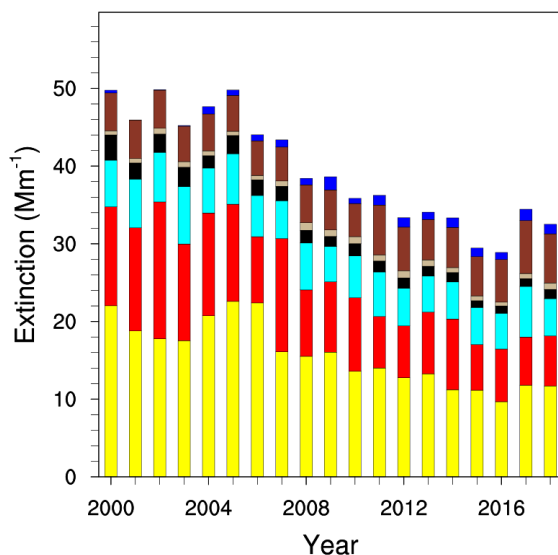
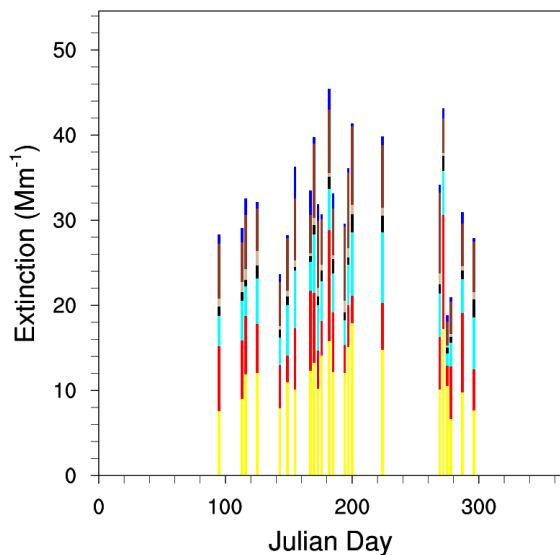
Pinnacles National Monument, CA



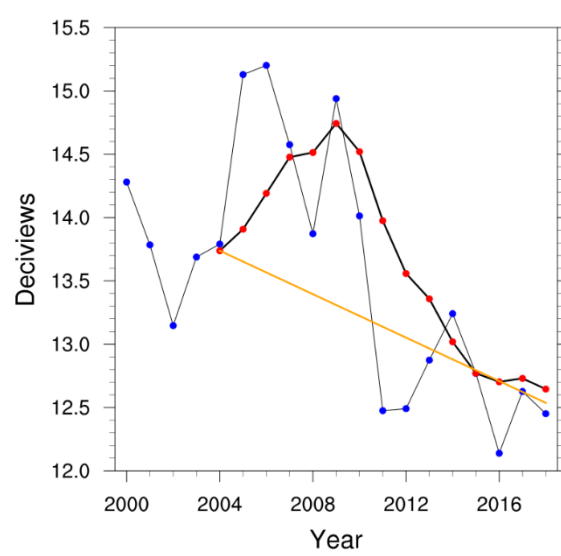
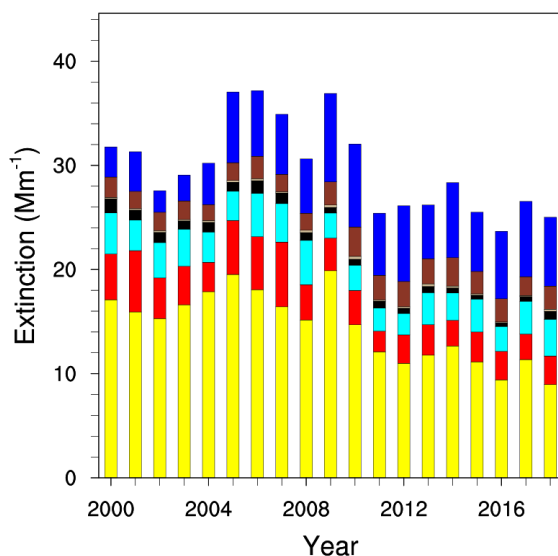
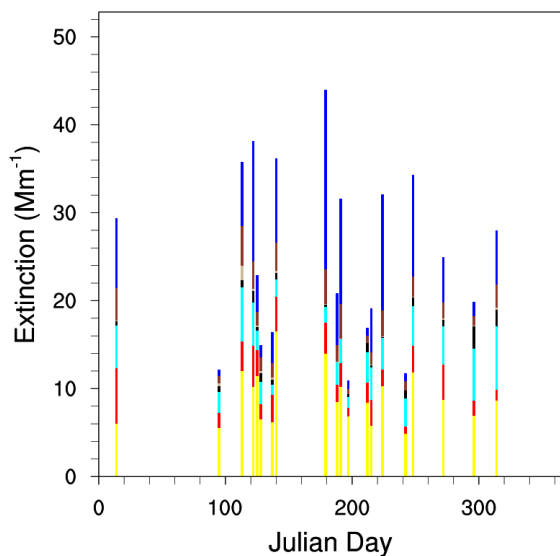
Point Reyes National Seashore, CA



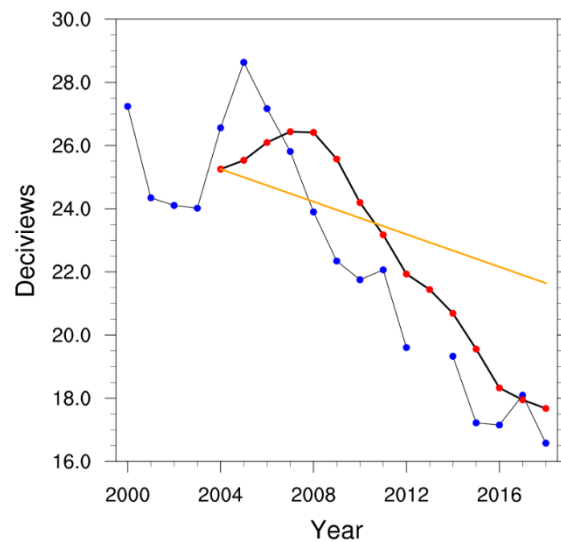
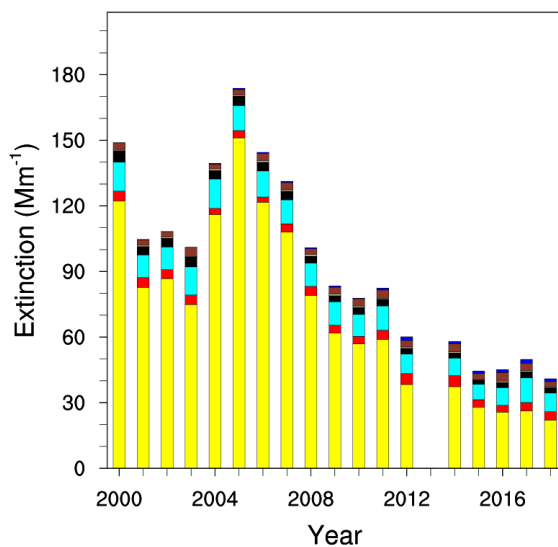
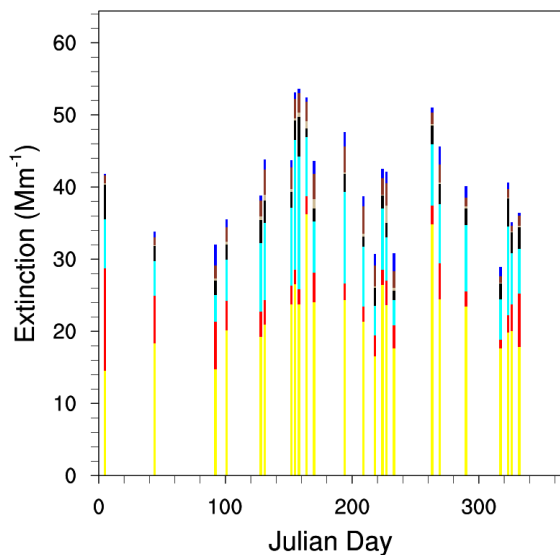
San Rafael, CA



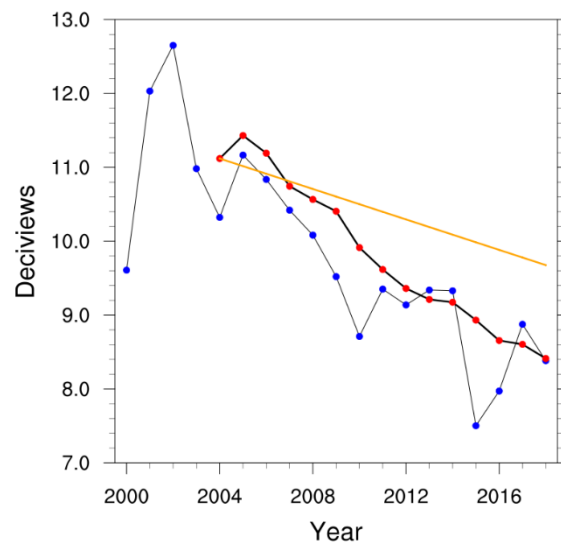
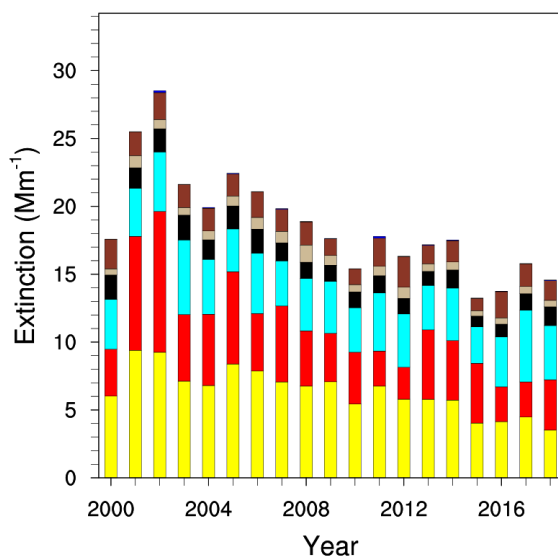
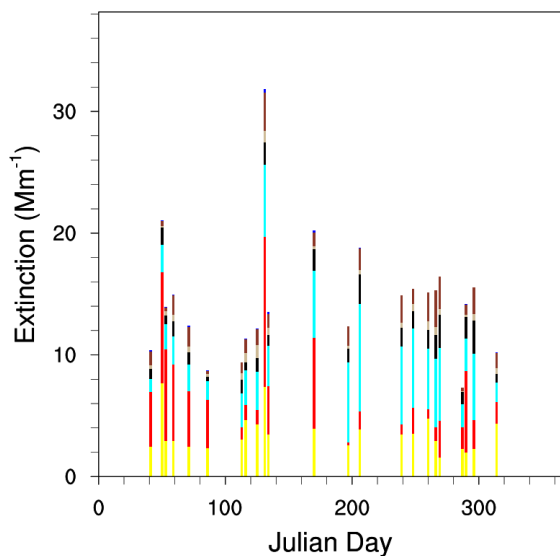
Redwood National Park, CA



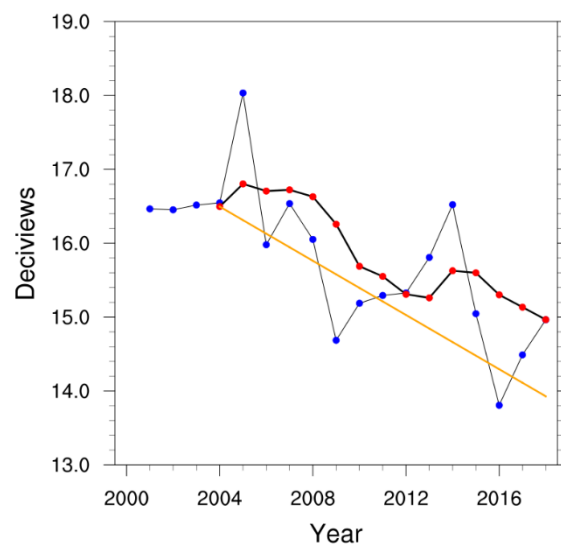
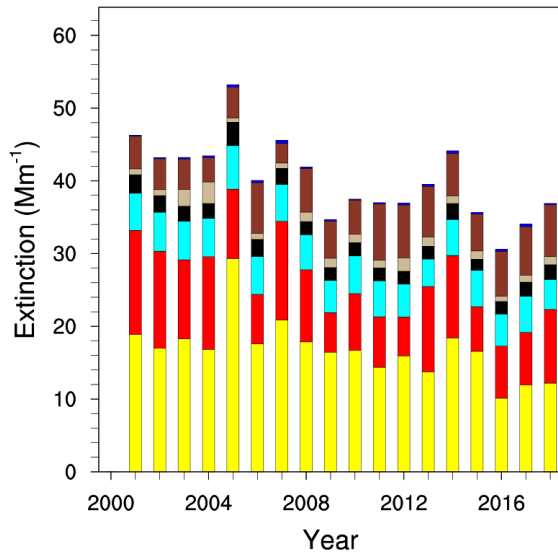
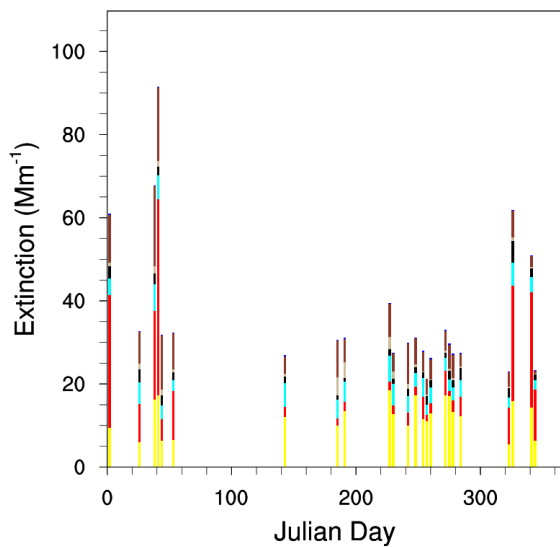
Cape Romain National Wildlife Refuge, SC



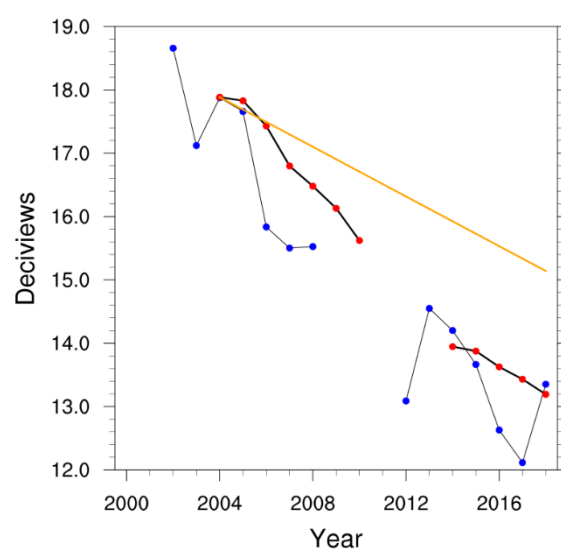
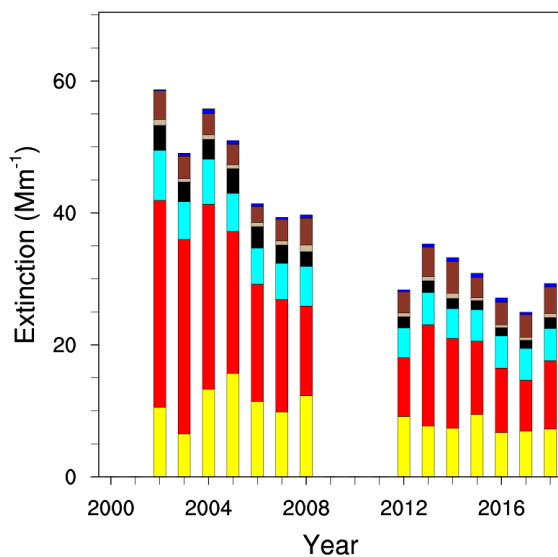
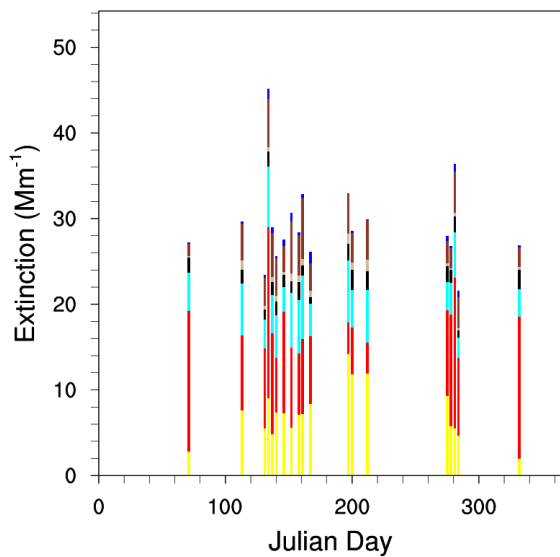
Rocky Mountain National Park, CO



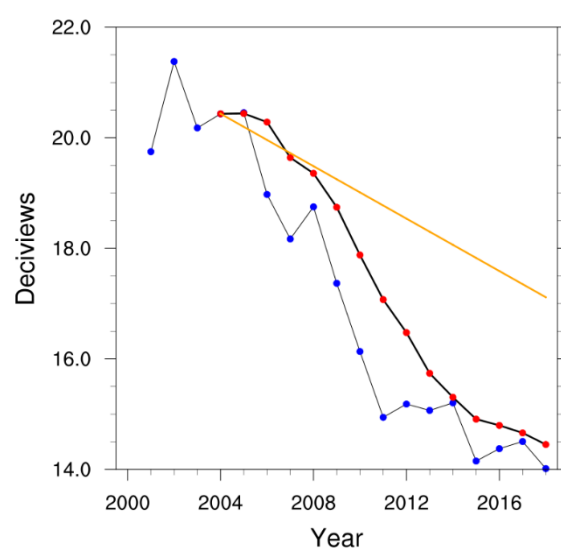
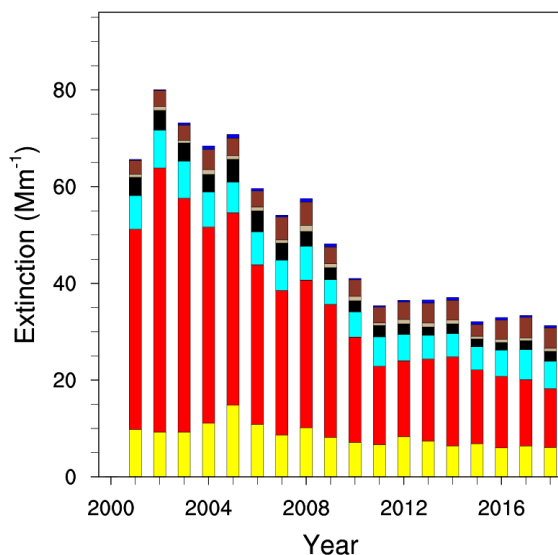
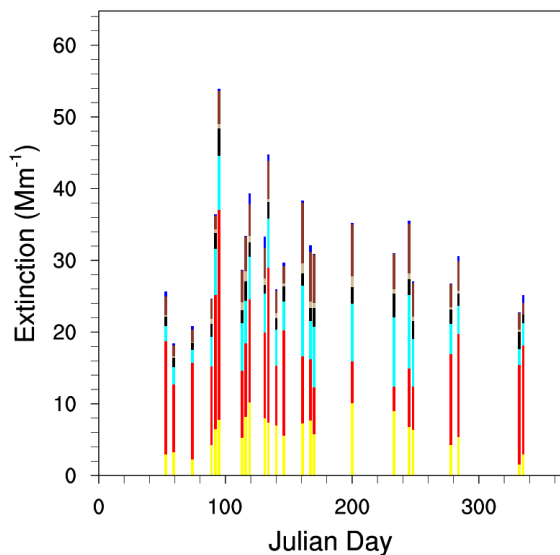
Salt Creek, NM



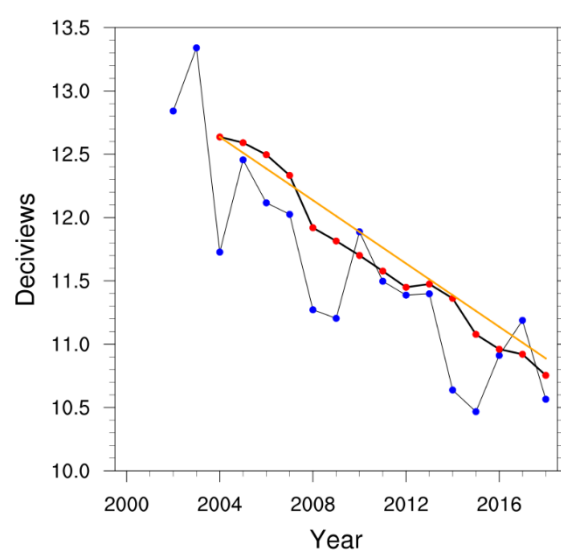
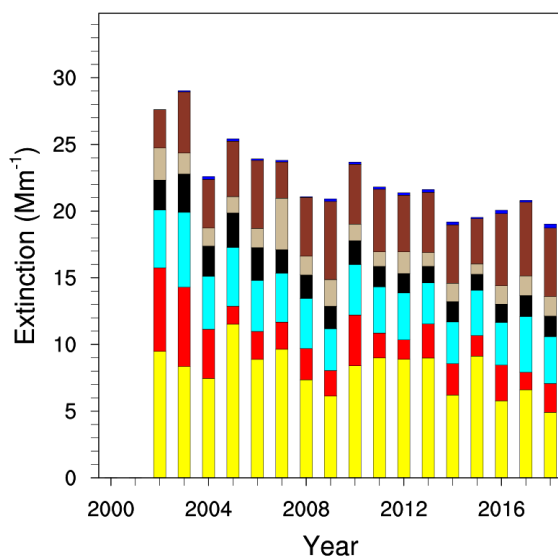
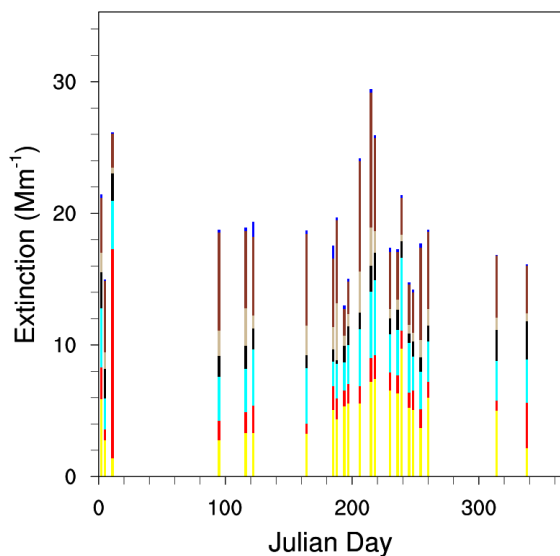
San Gabriel, CA



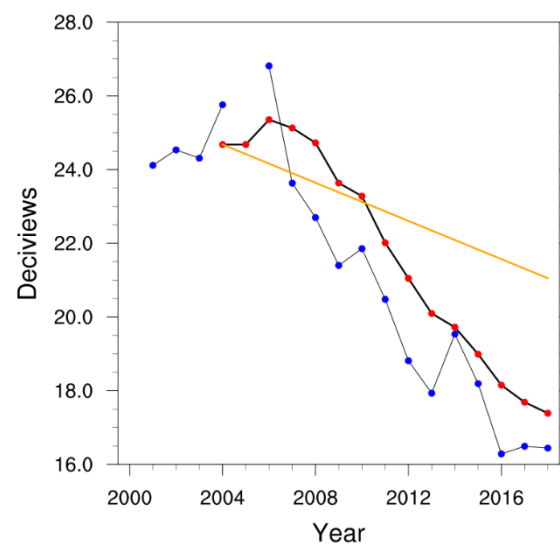
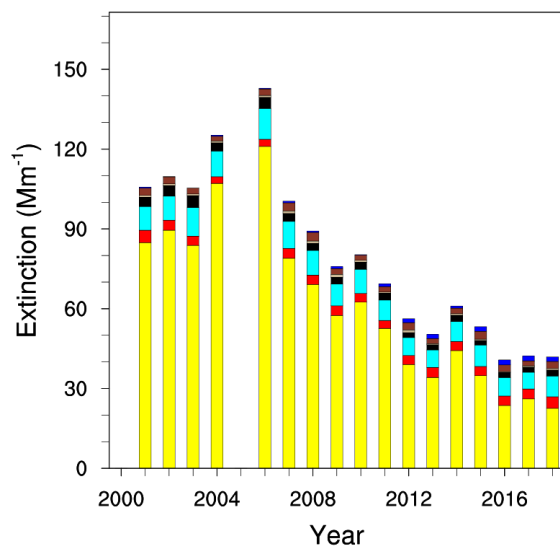
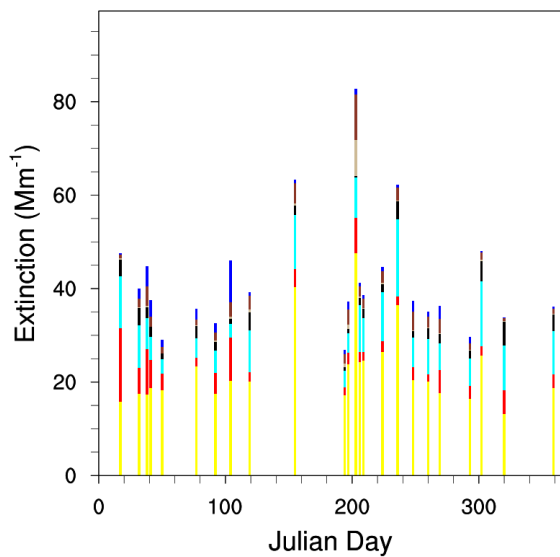
San Geronio Wilderness, CA



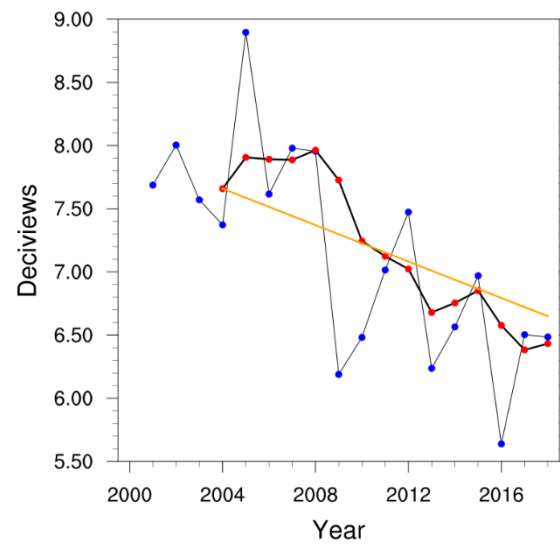
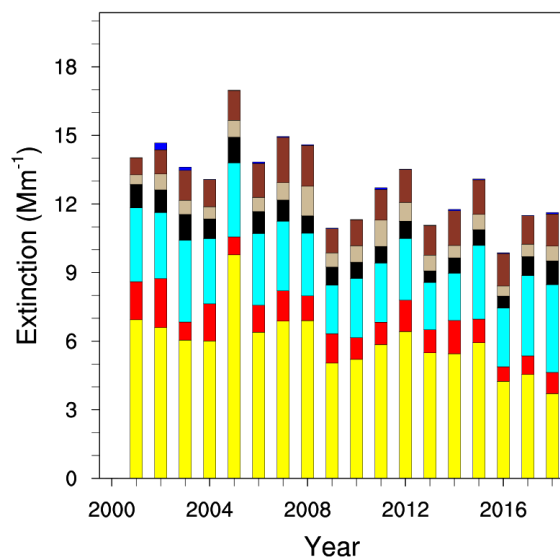
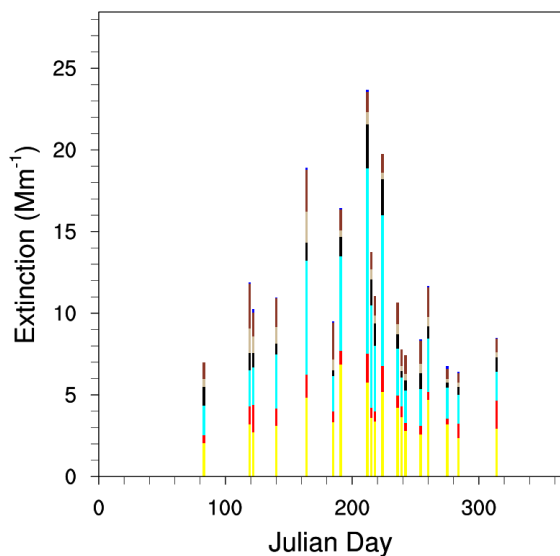
Saguaro National Monument, AZ



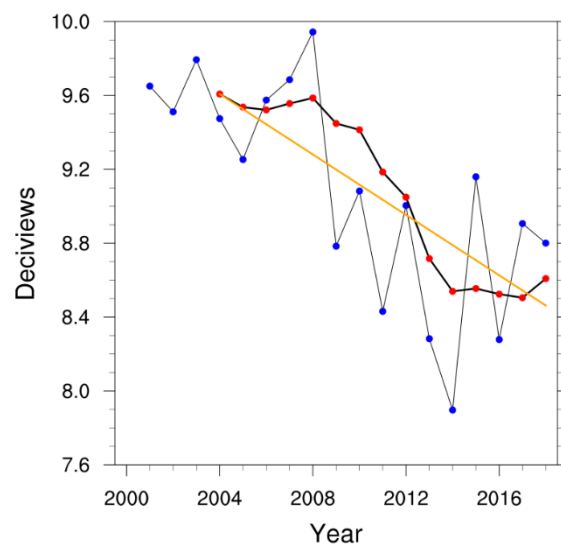
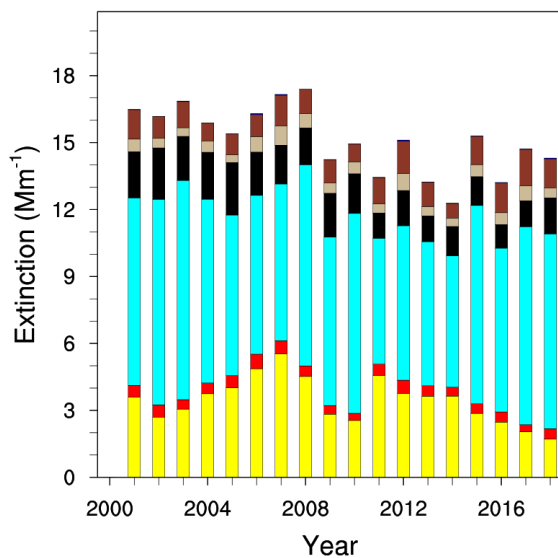
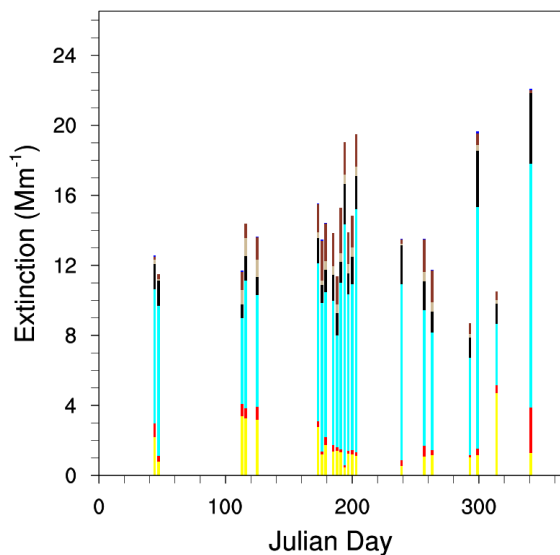
St. Marks, FL



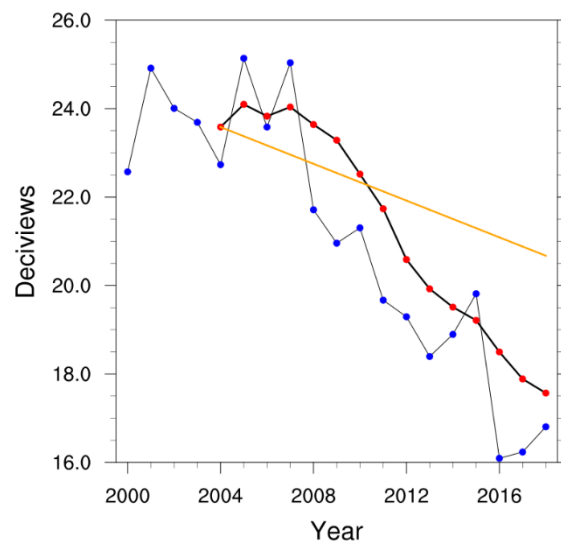
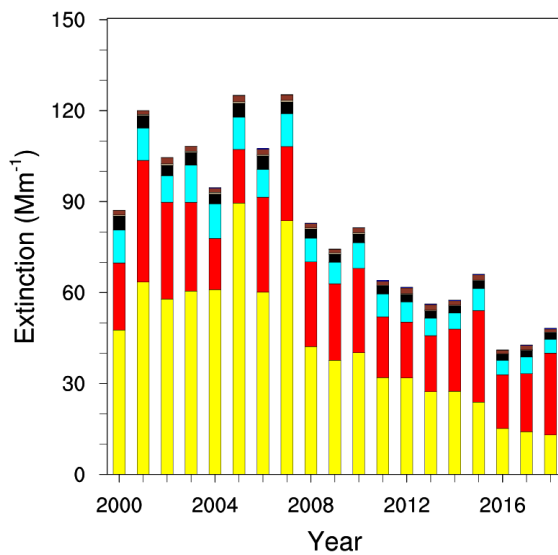
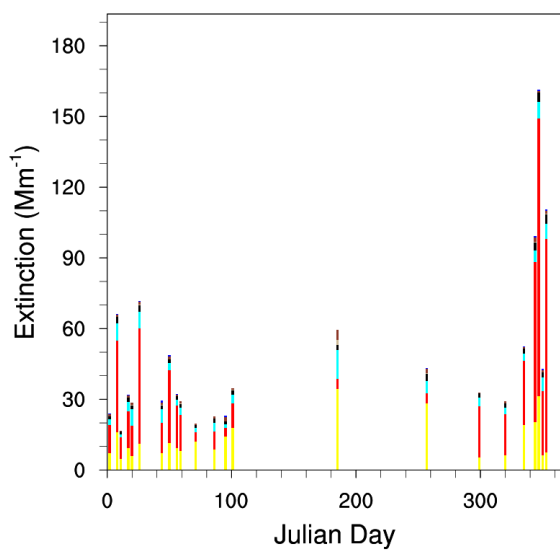
San Pedro Parks, NM



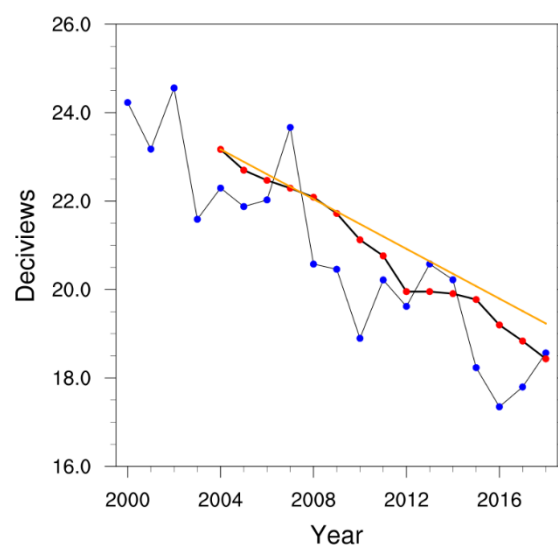
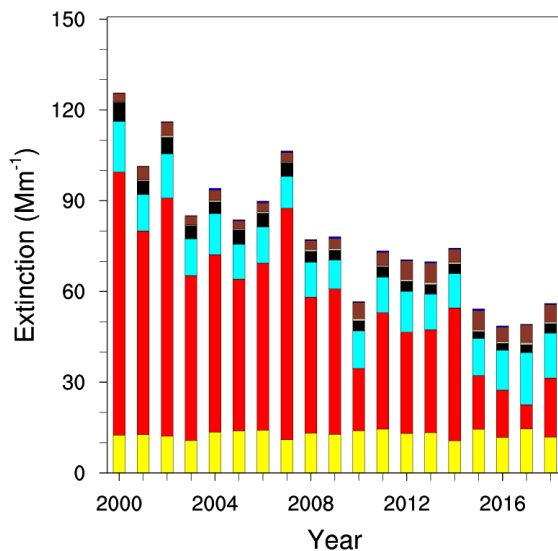
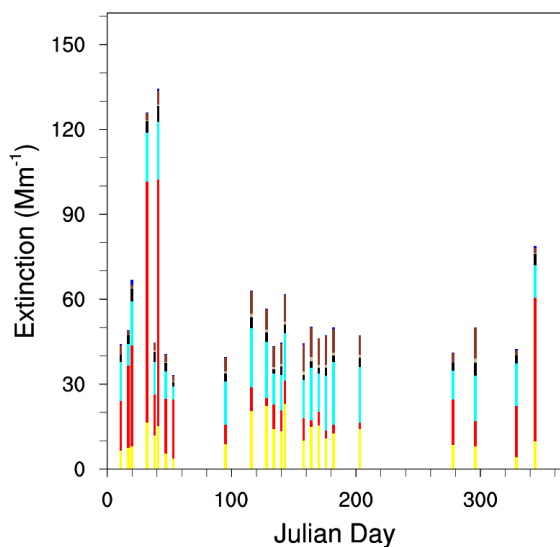
Sawtooth National Forest, ID



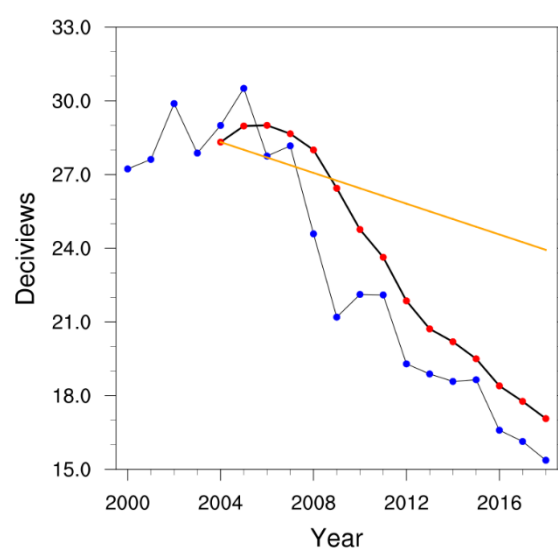
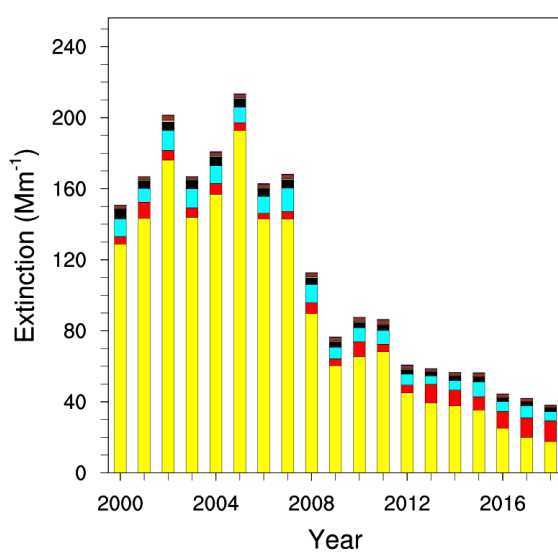
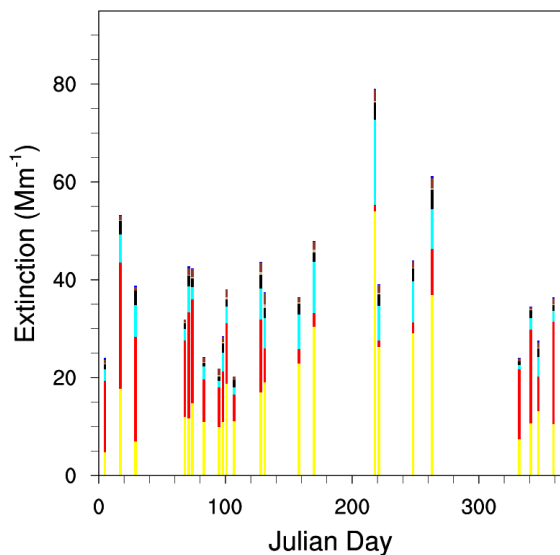
Seney, MI



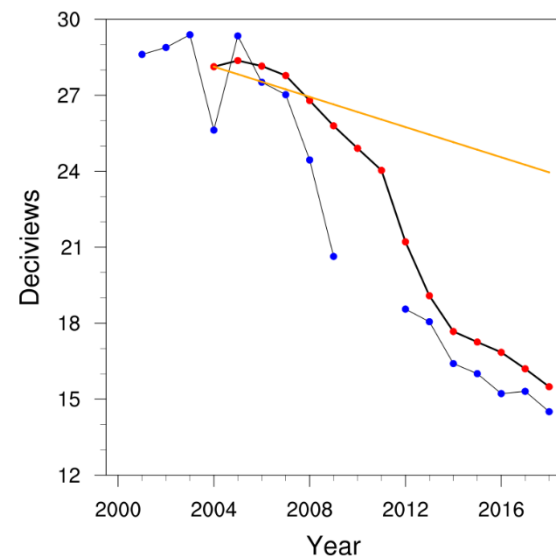
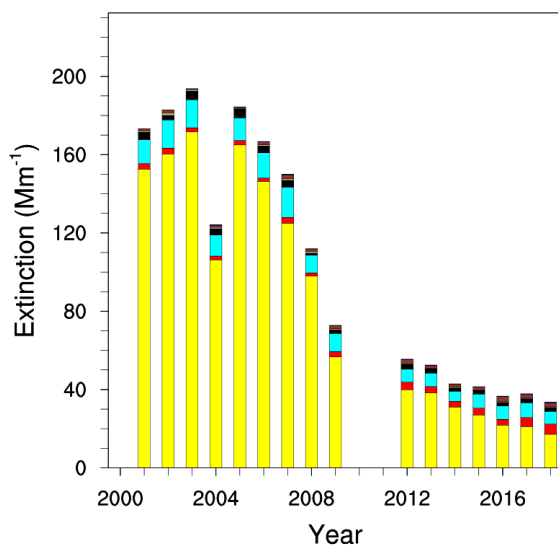
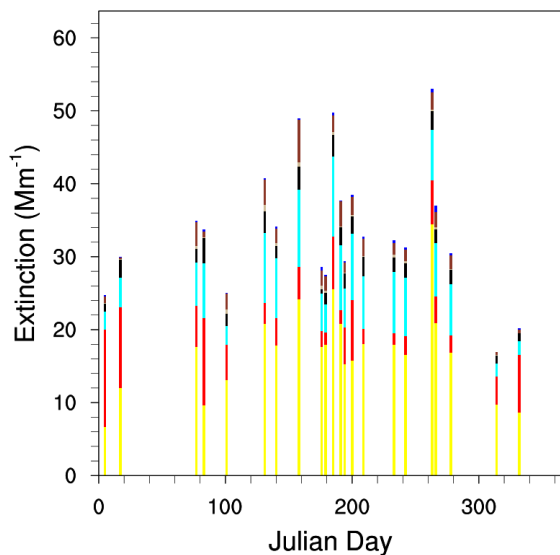
Sequoia National Park, CA



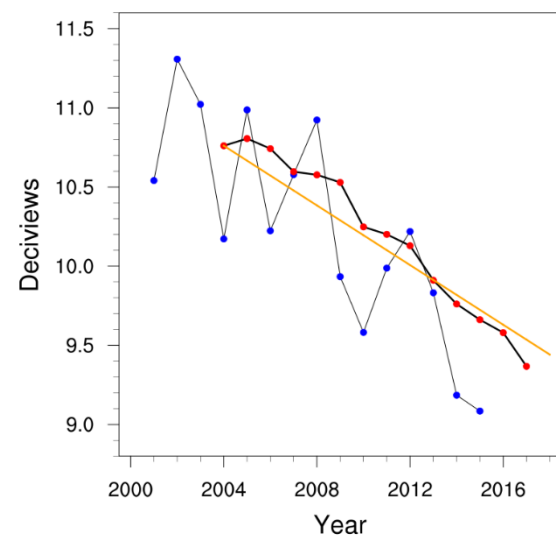
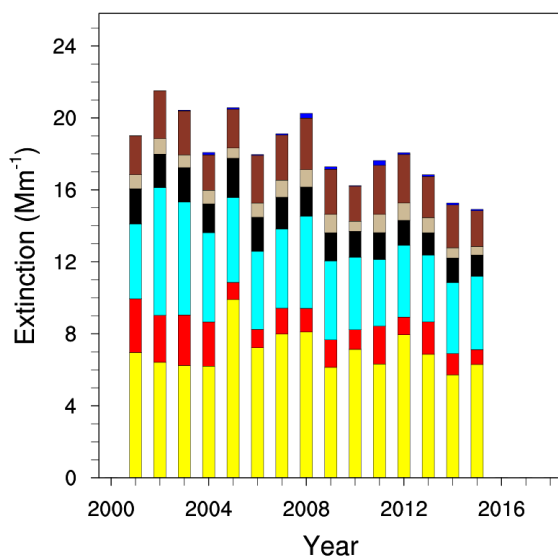
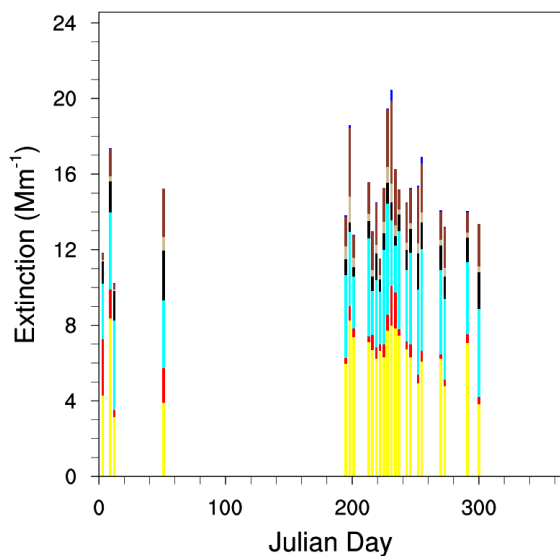
Shenandoah National Park, VA



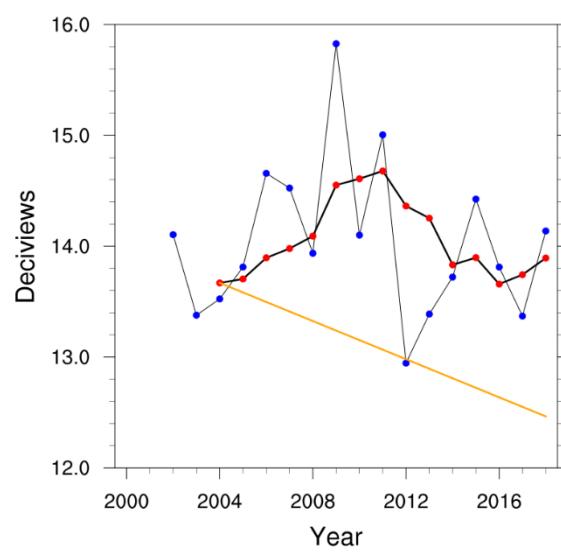
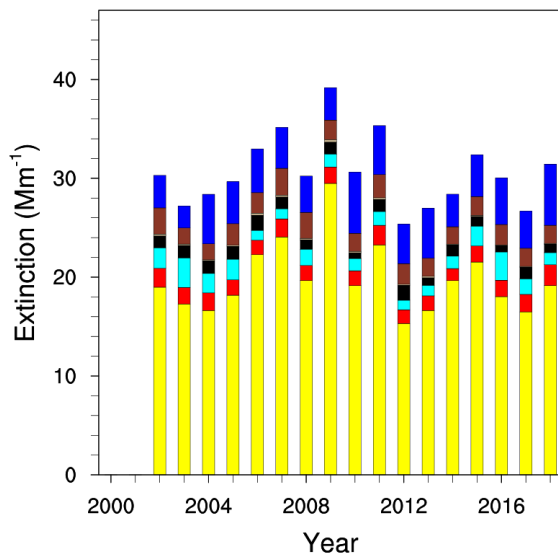
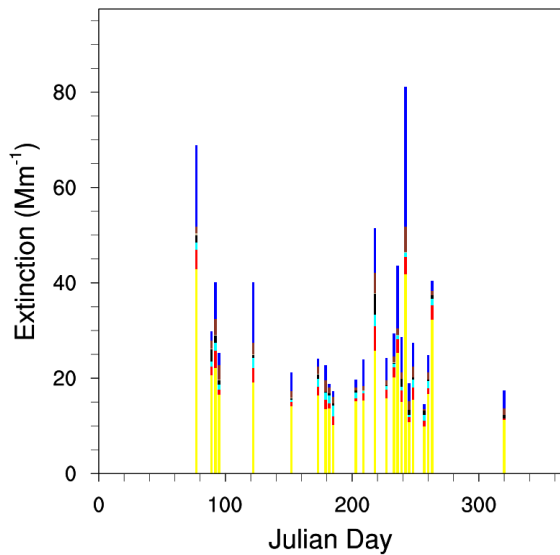
Shining Rock Wilderness, NC



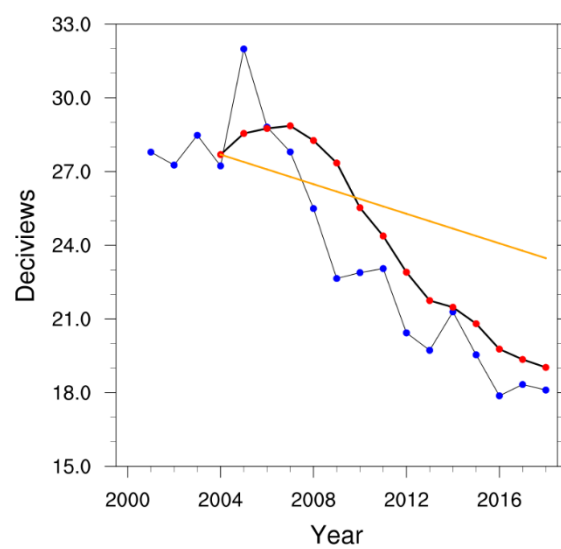
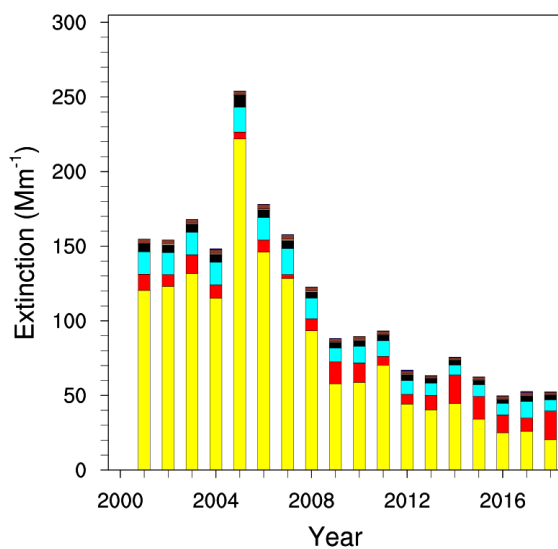
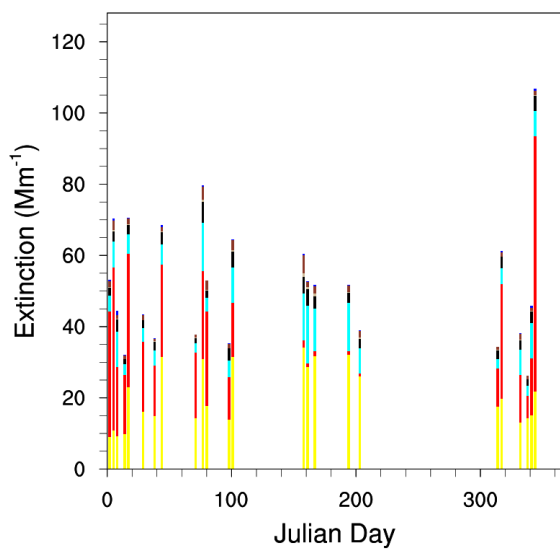
Sierra Ancha, AZ (2015 data shown on figure to the left)



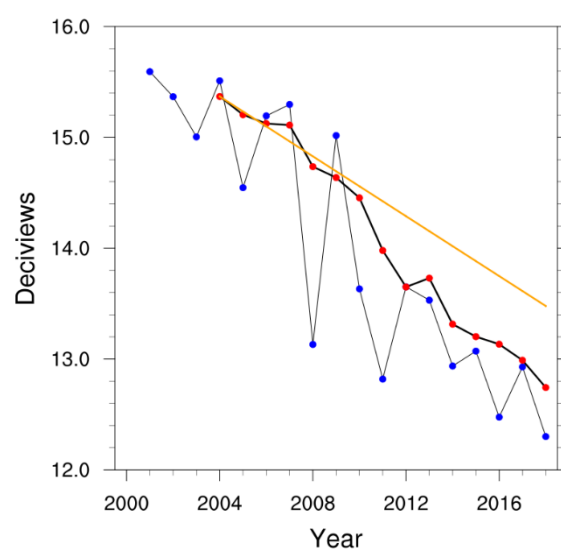
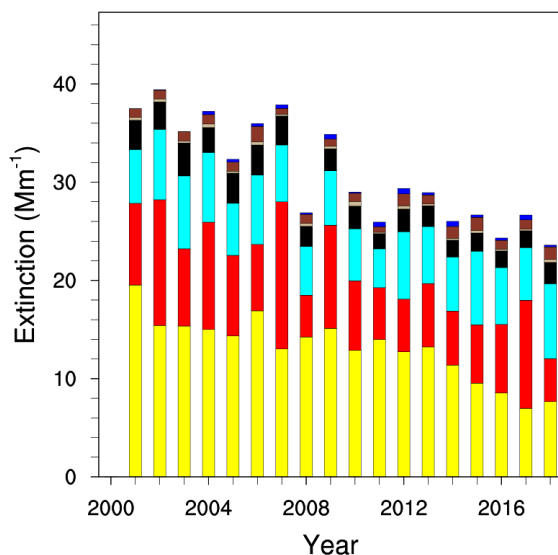
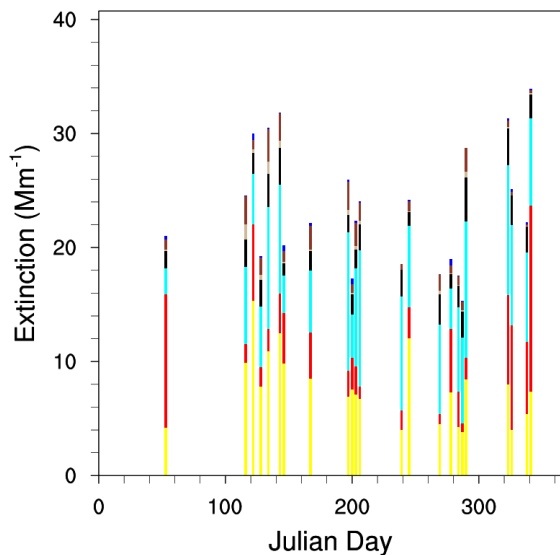
Simeonof, AK



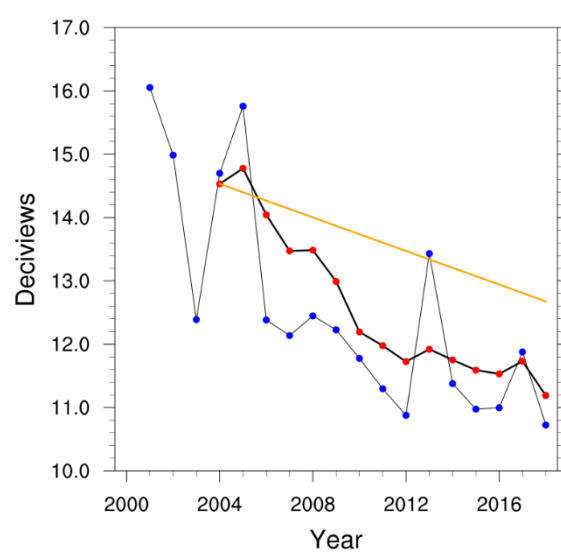
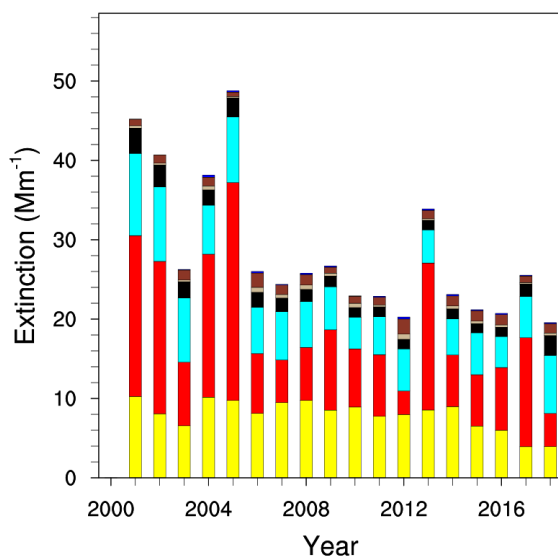
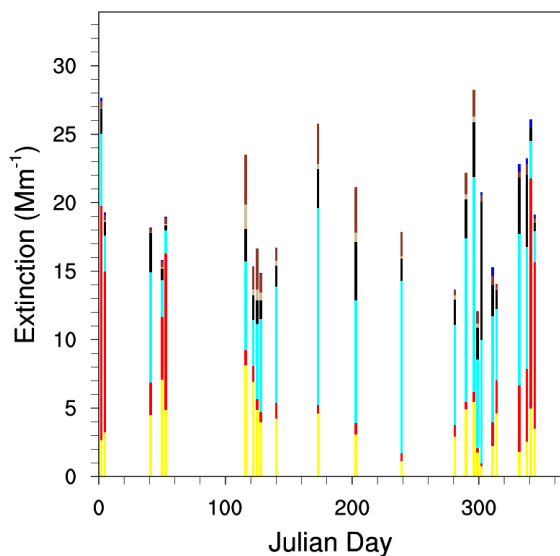
Sipsey Wilderness, AL



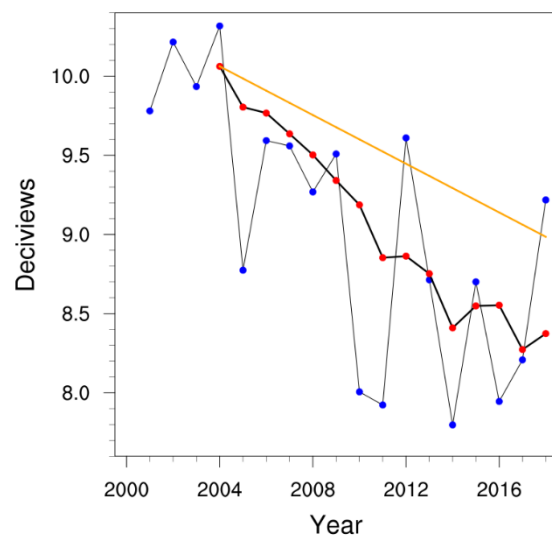
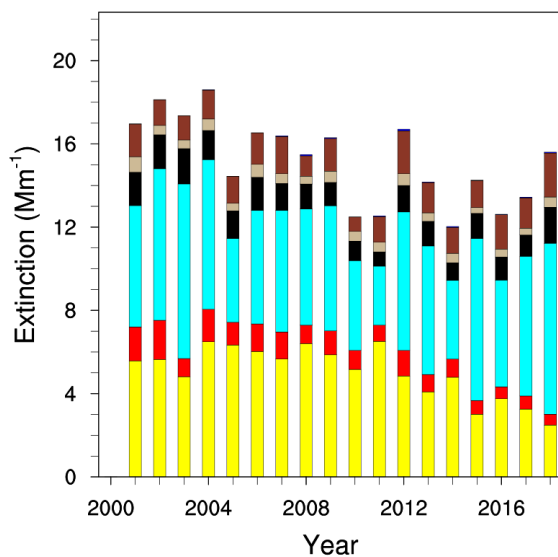
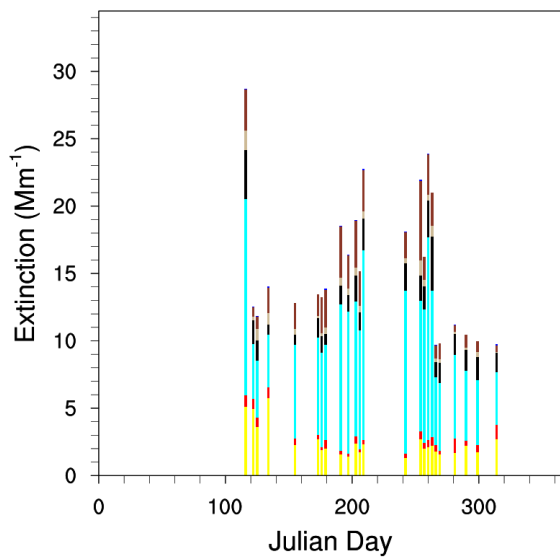
Snoqualmie Pass, WA



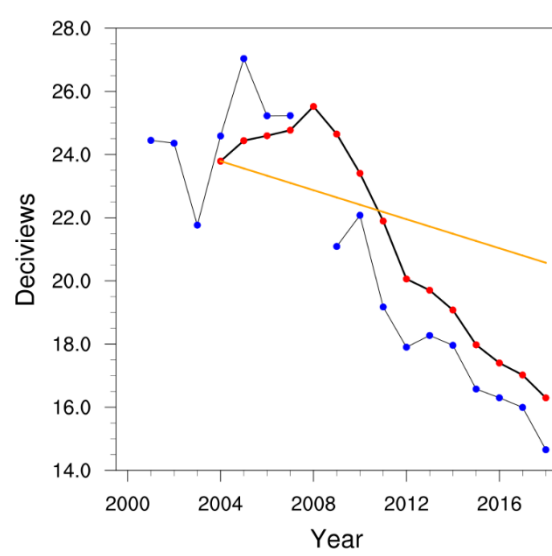
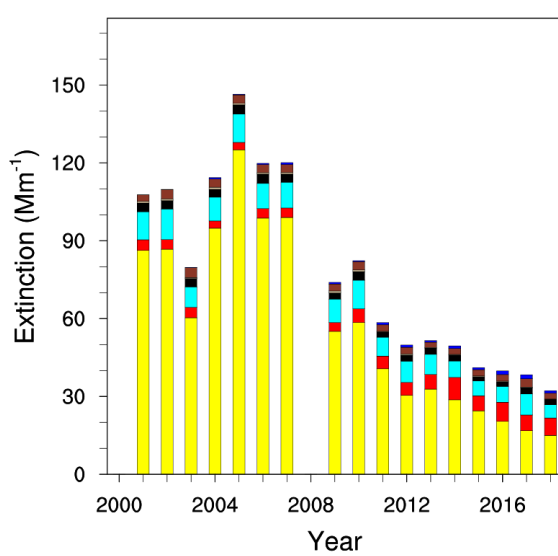
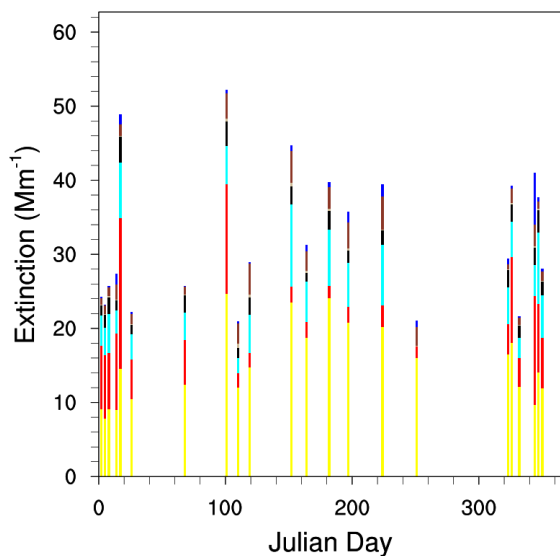
Starkey, OR



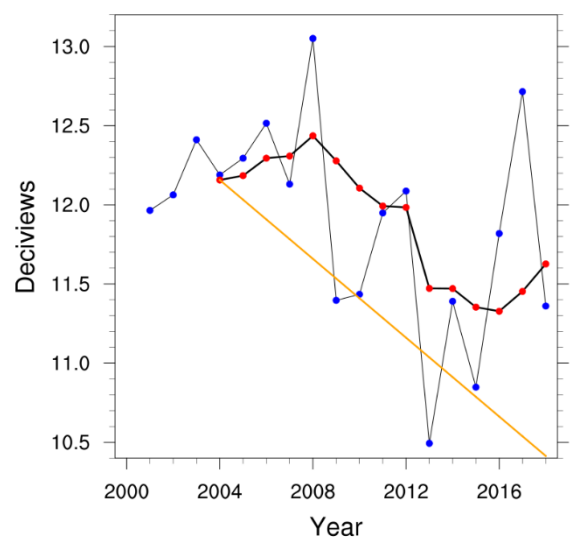
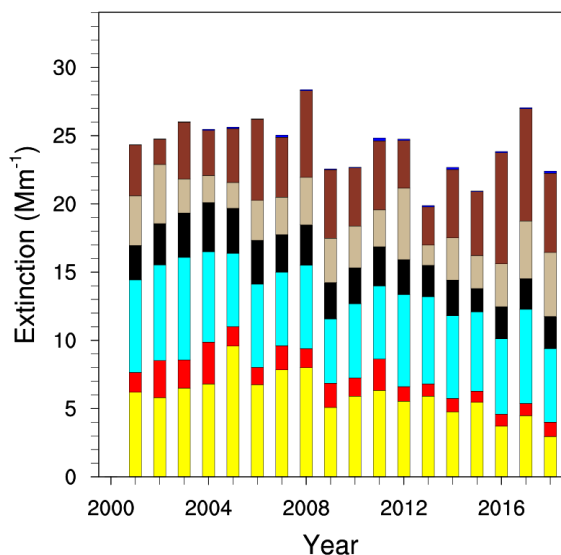
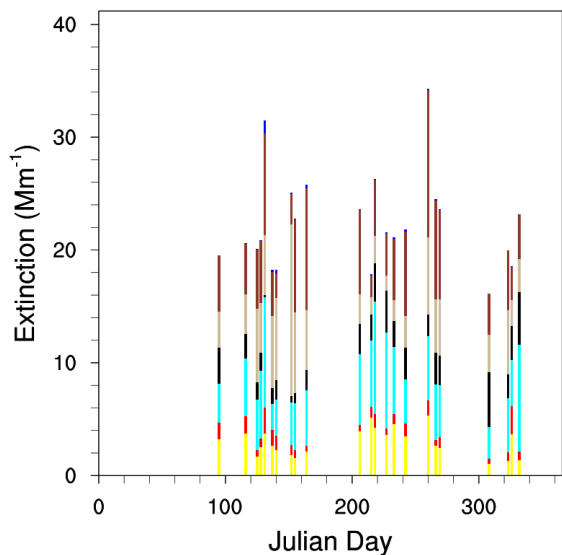
Sula Peak, MT



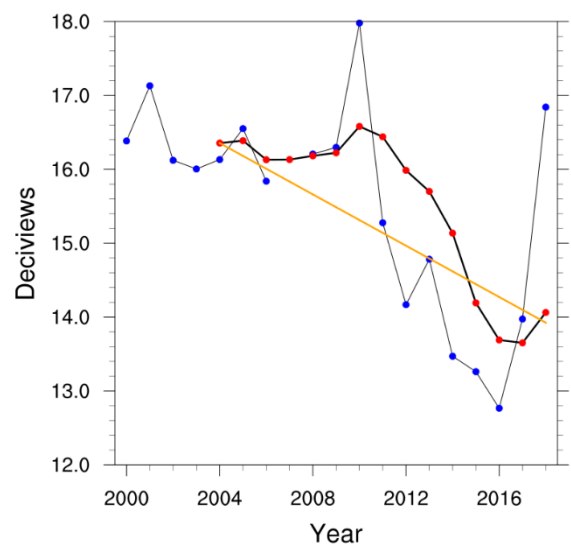
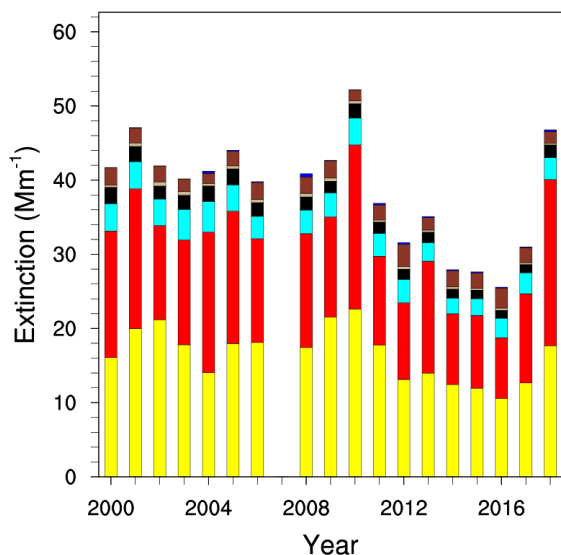
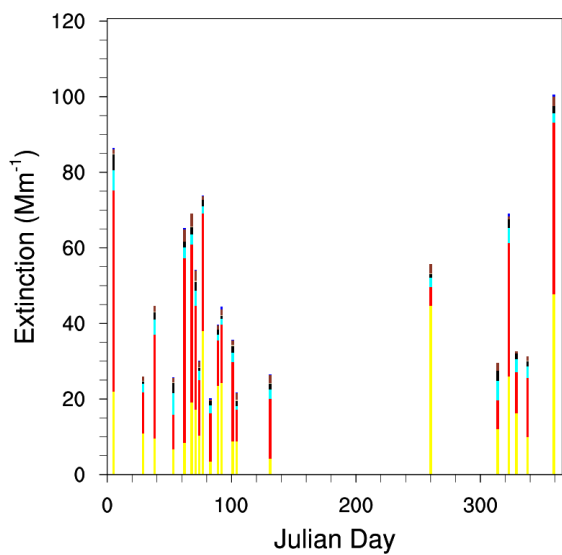
Swanquarter, NC



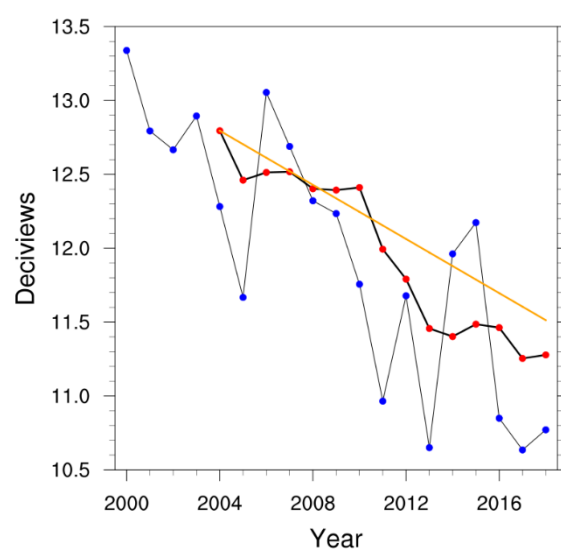
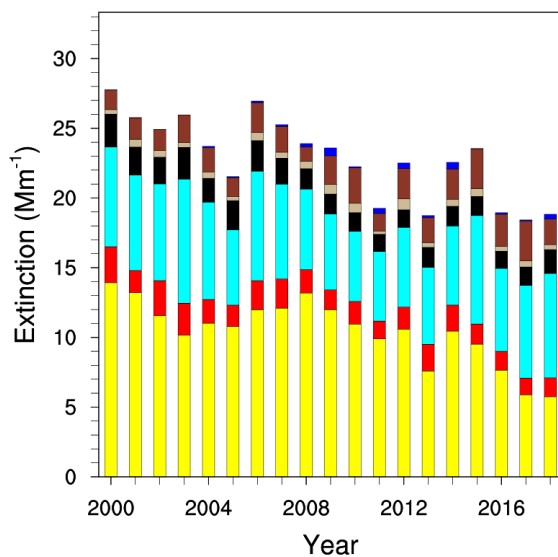
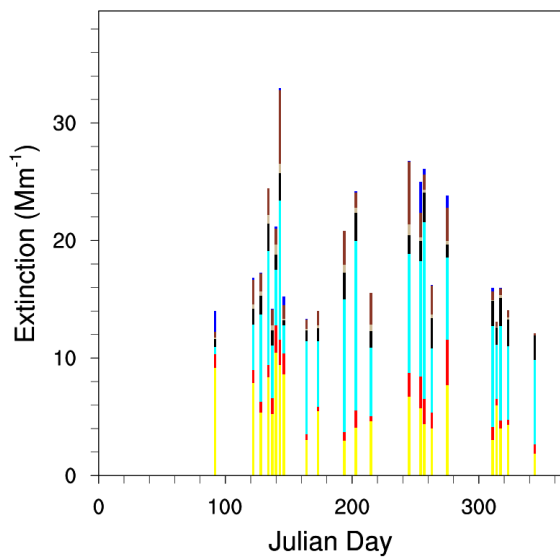
Sycamore Canyon, AZ (combined SYCA1 and SYCA2 starting 10-18-15)



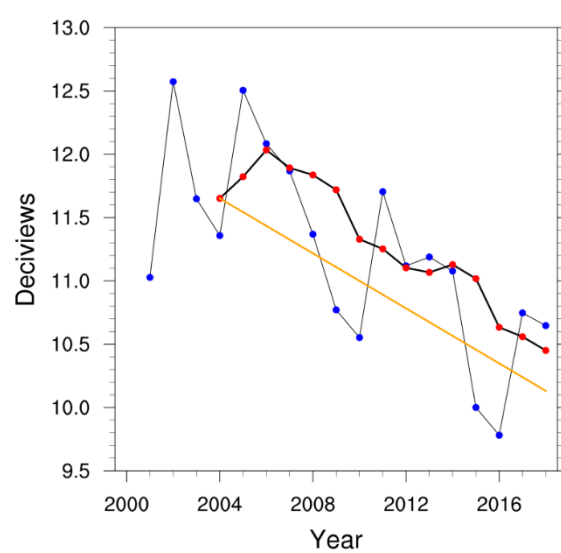
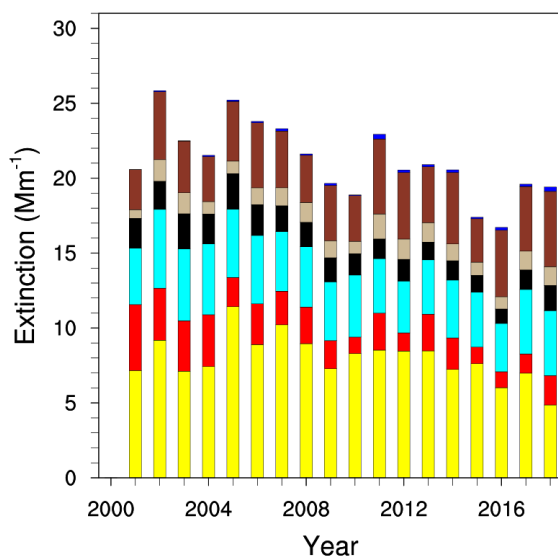
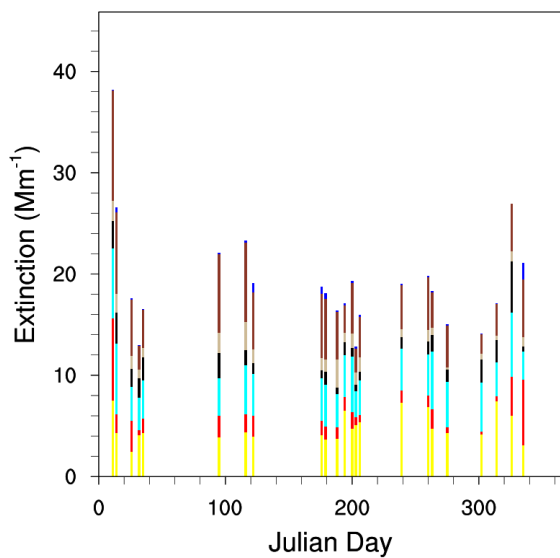
Theodore Roosevelt, ND



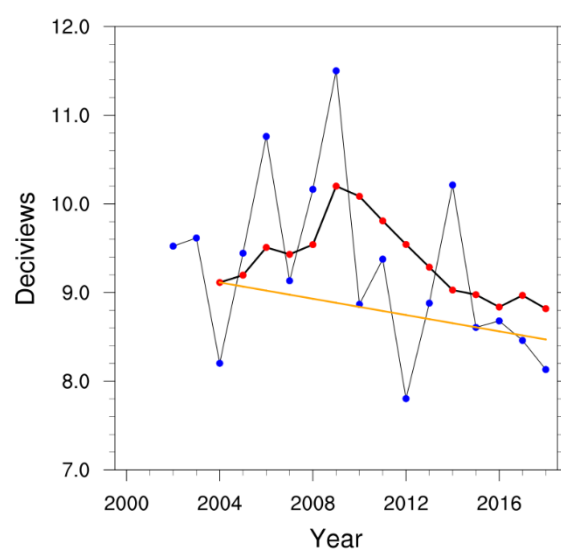
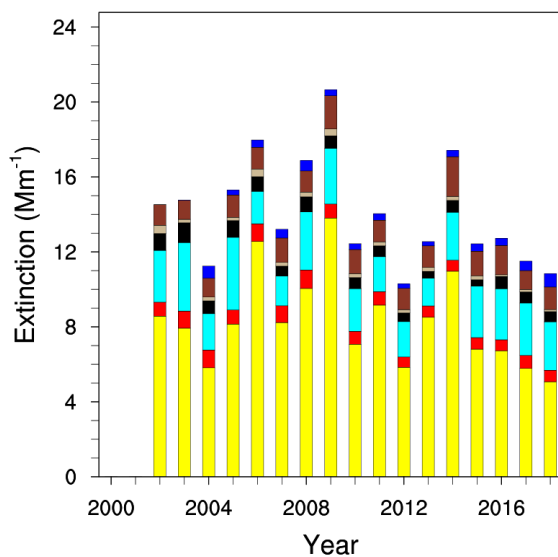
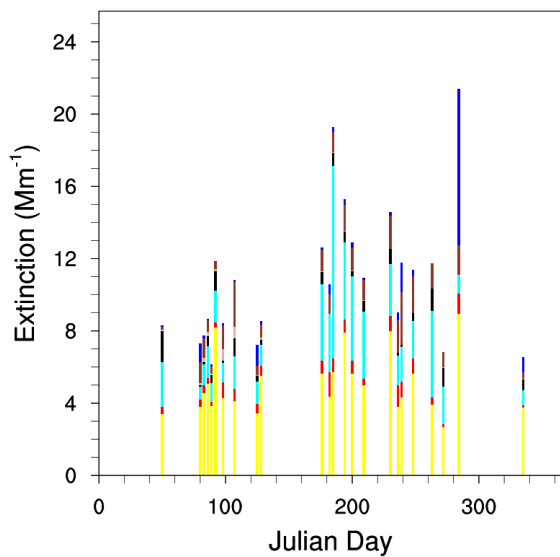
Three Sisters Wilderness, OR



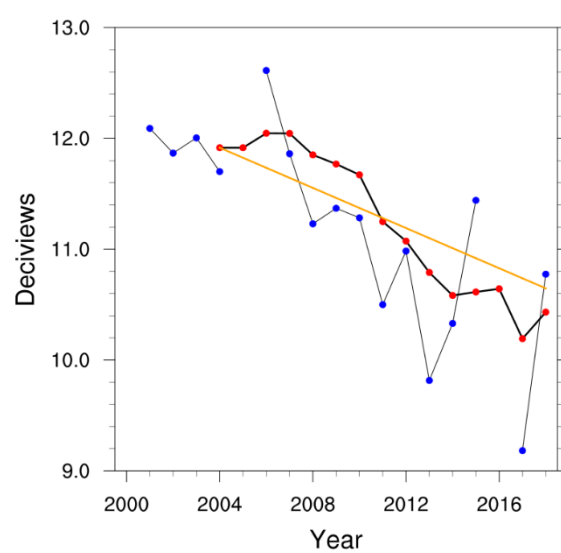
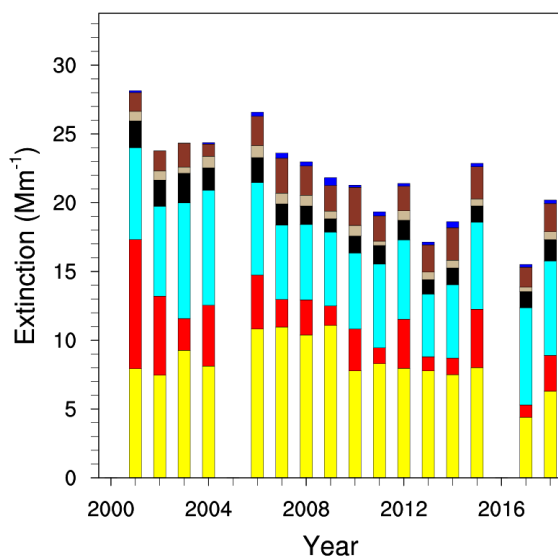
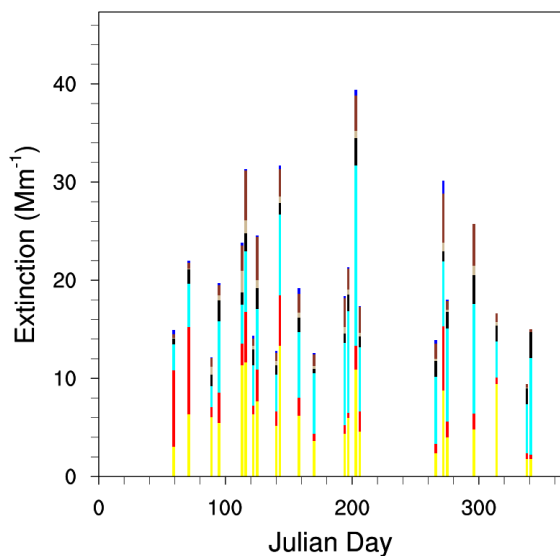
Tonto National Monument, AZ



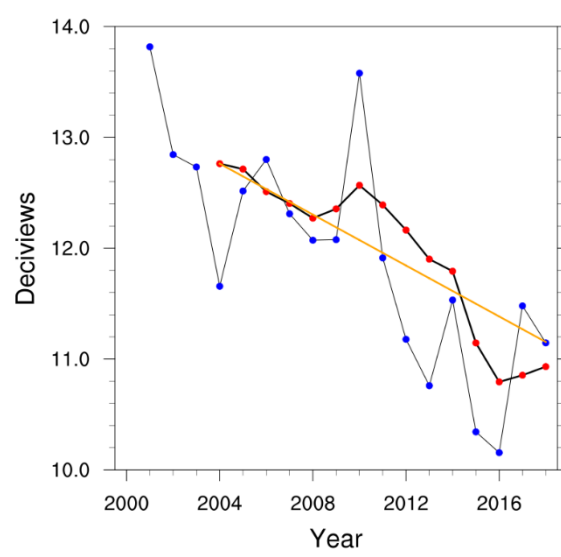
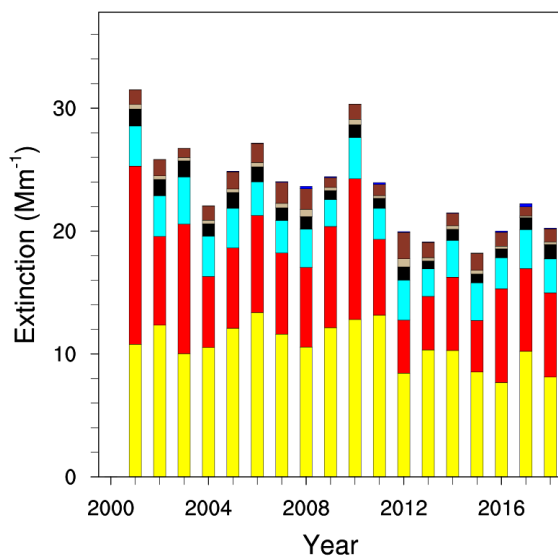
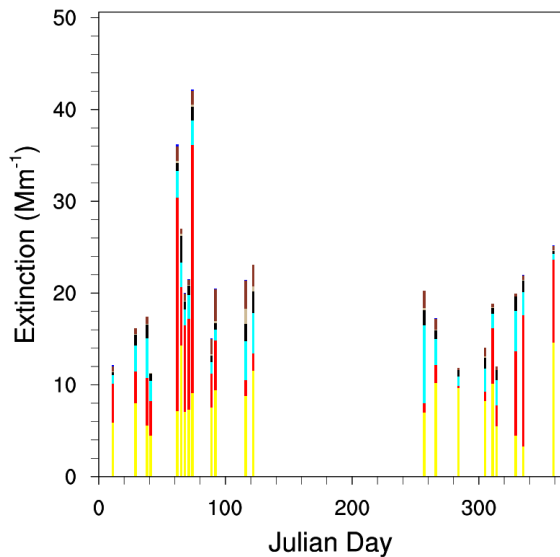
Trapper Creek, AK



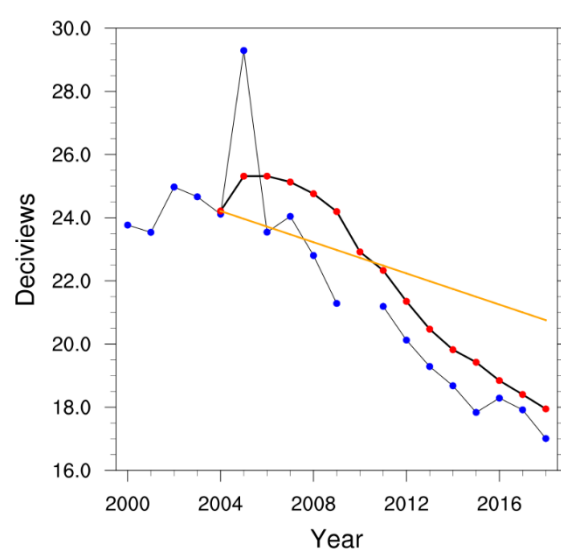
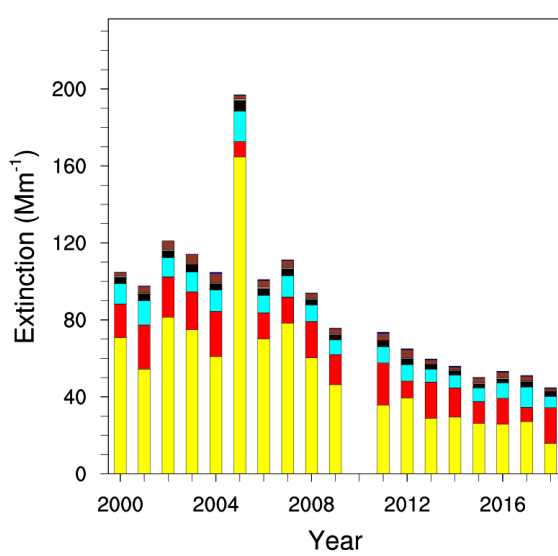
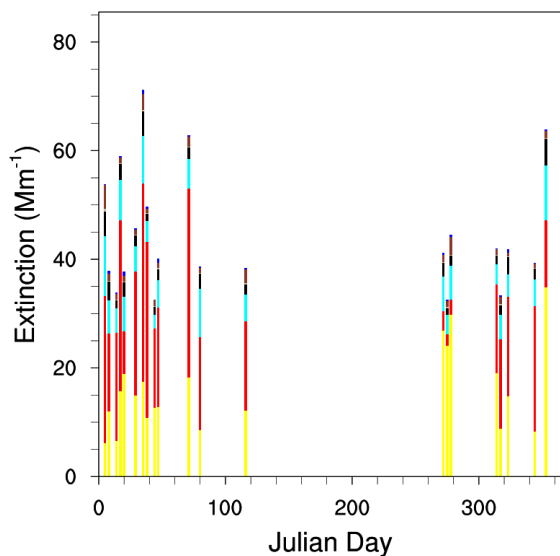
Trinity, CA



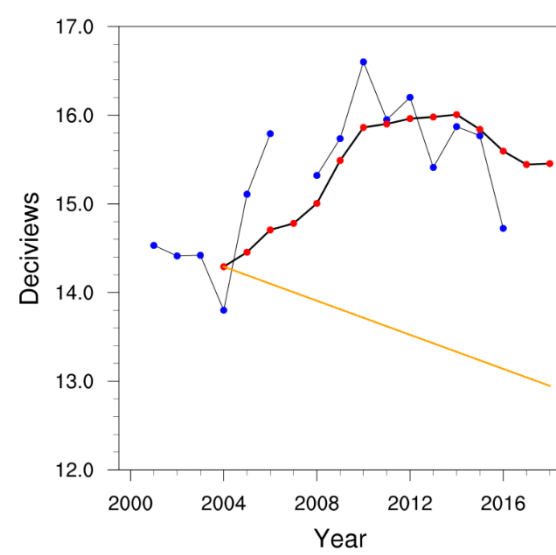
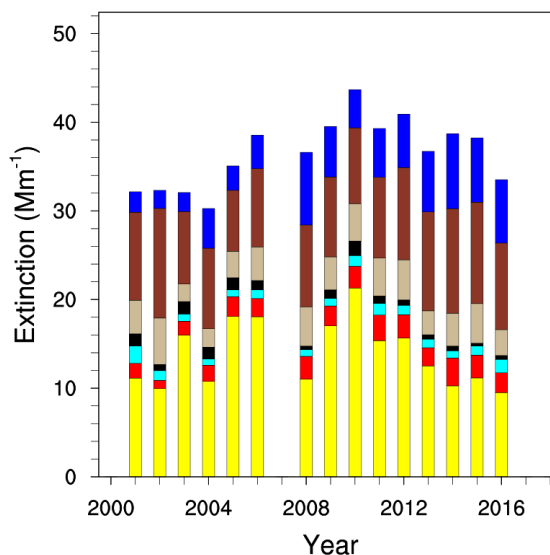
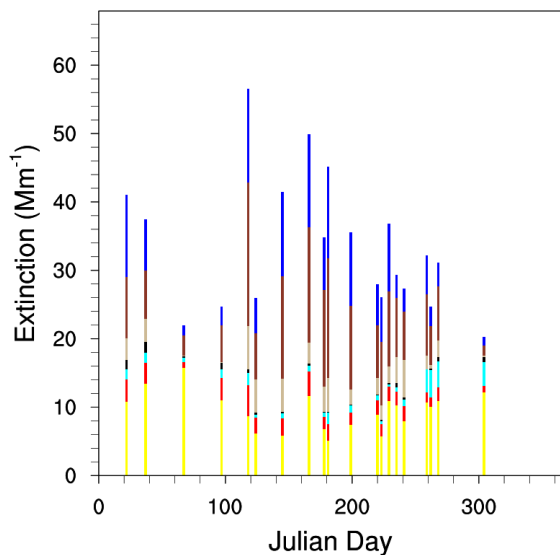
UL Bend, MT



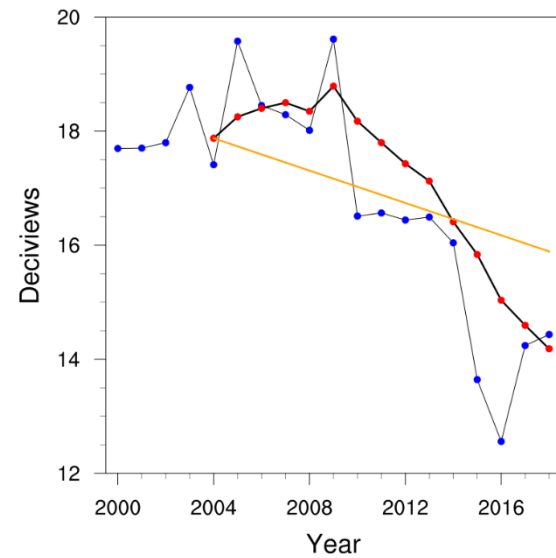
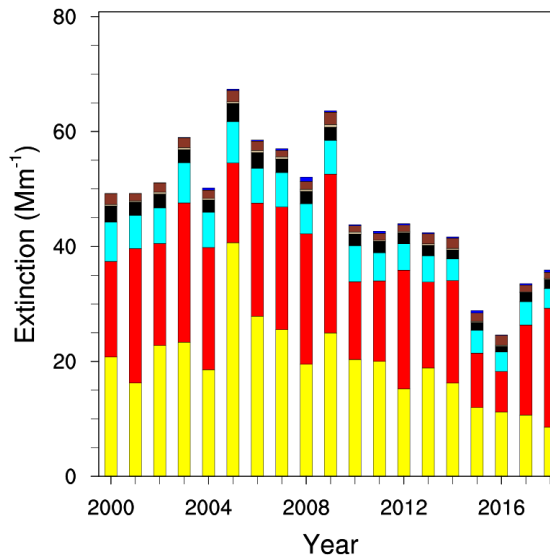
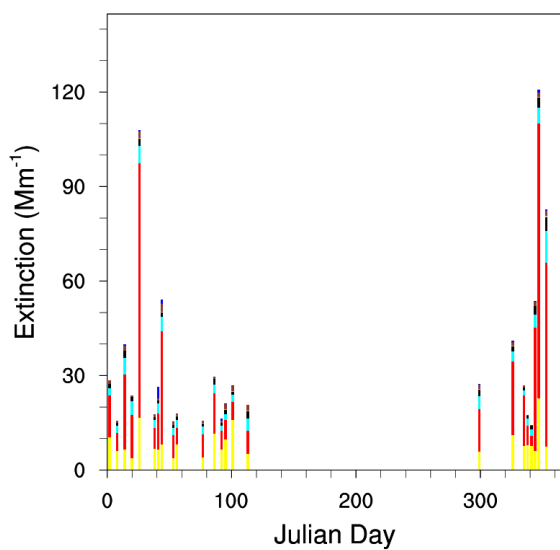
Upper Buffalo Wilderness, AR



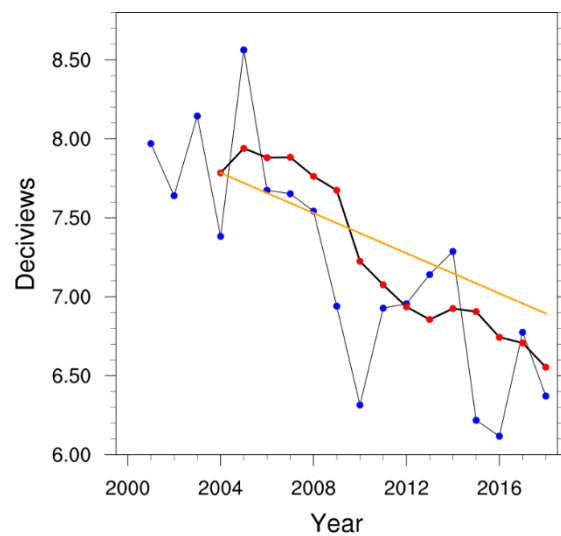
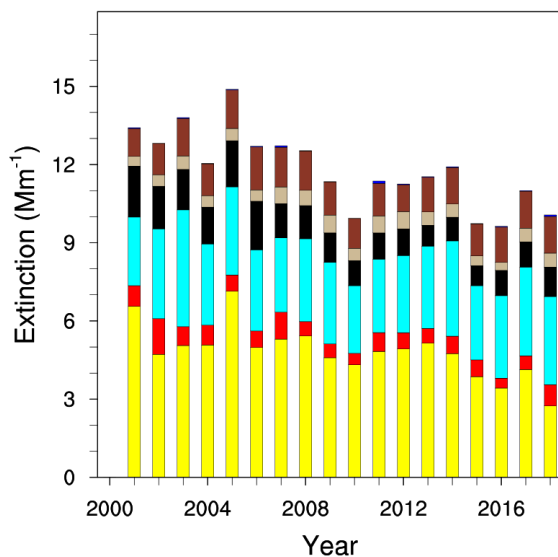
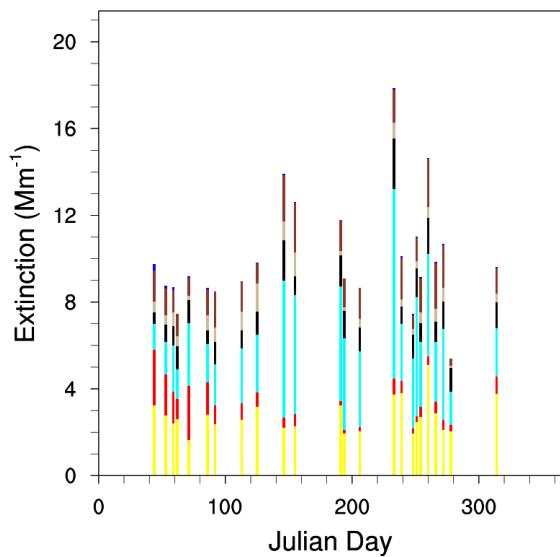
Virgin Islands National Park, VI (2016 data shown on figure to the left)



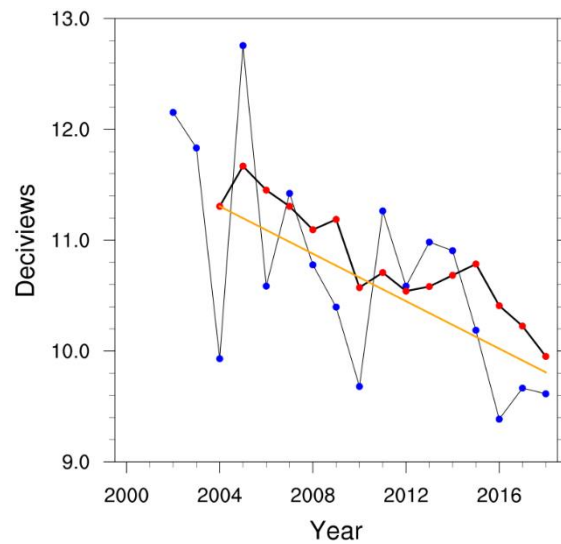
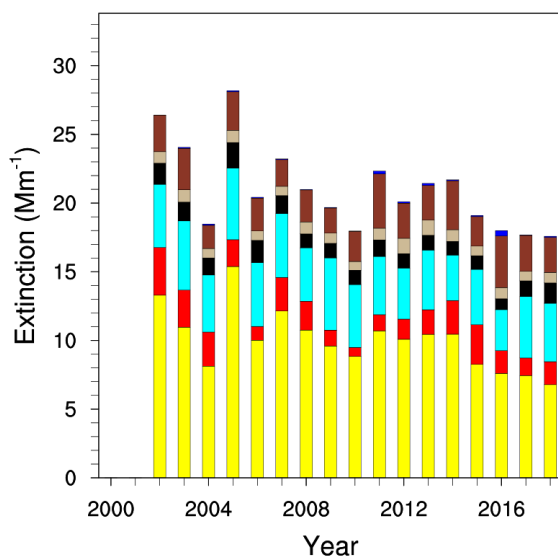
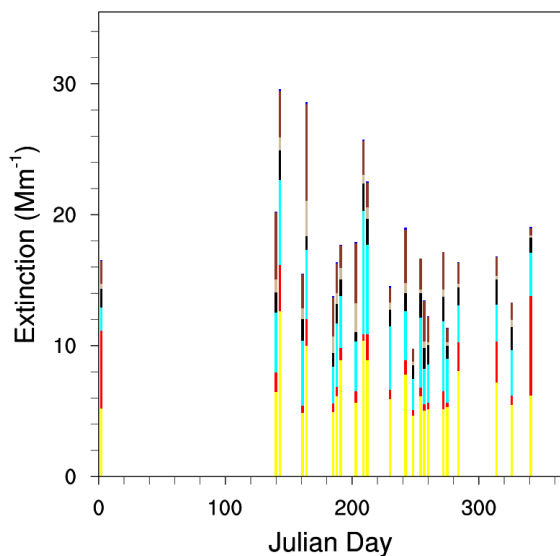
Voyageurs National Park, MN



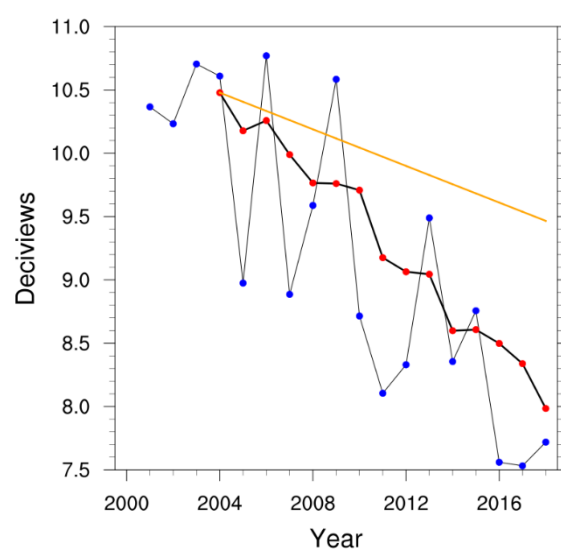
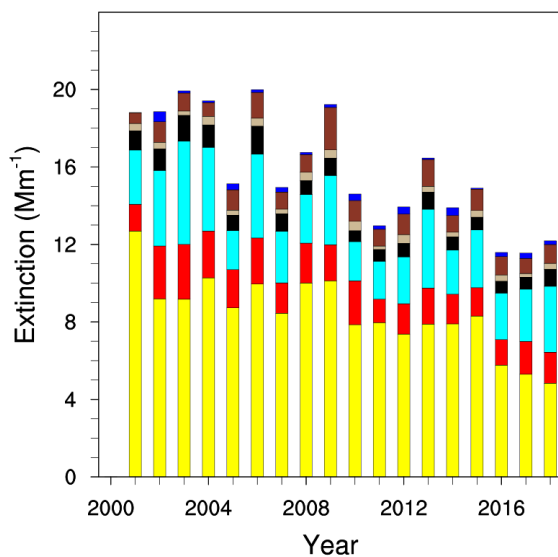
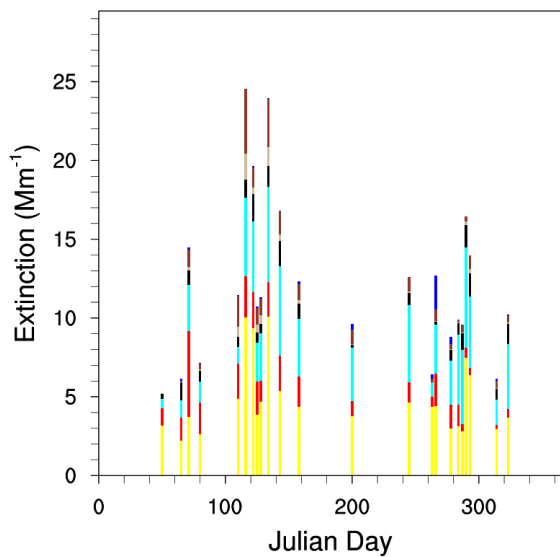
Weminuche Wilderness, CO



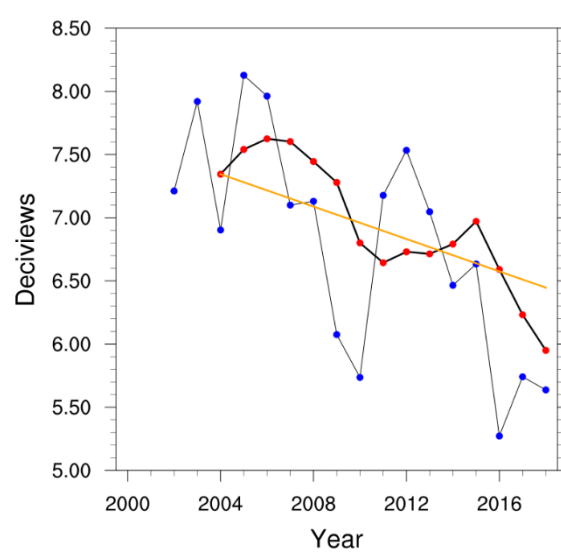
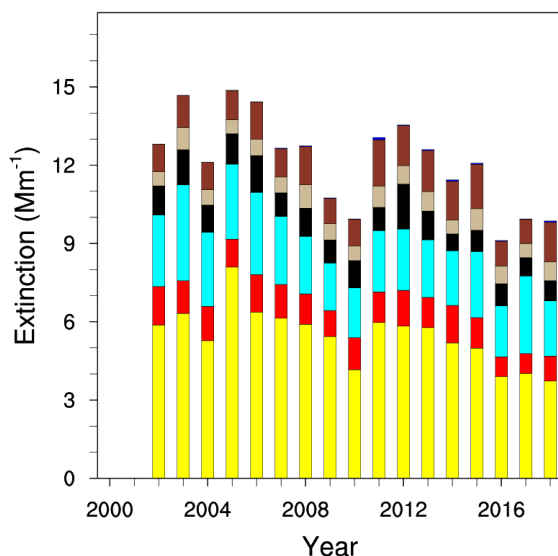
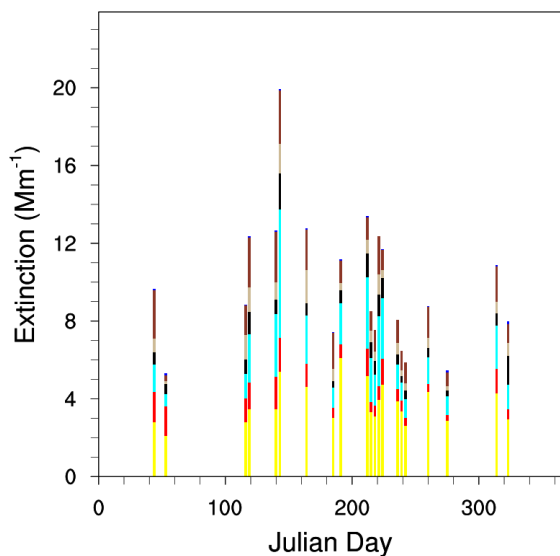
White Mountain, NM



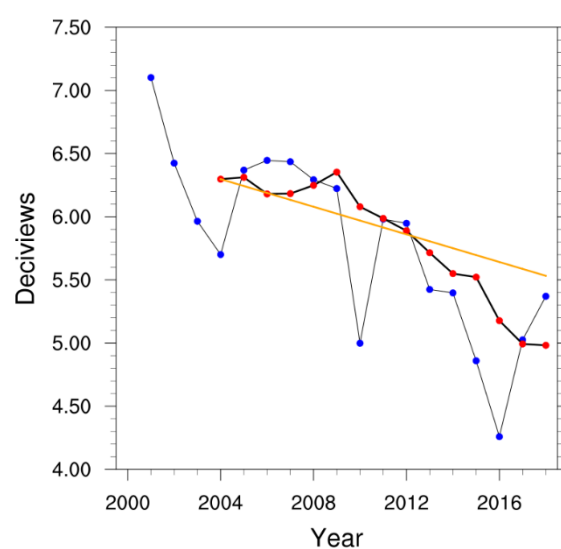
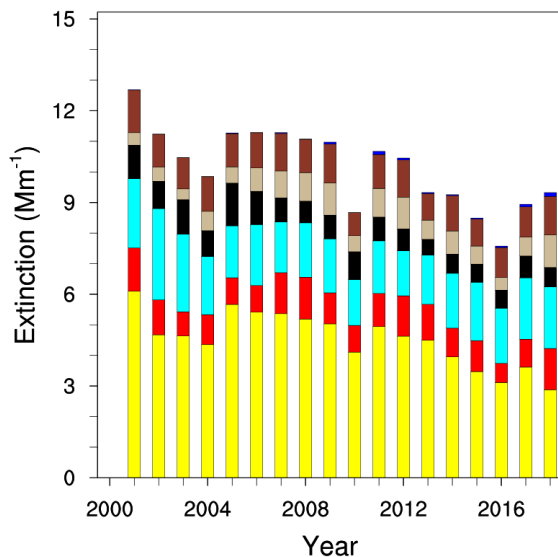
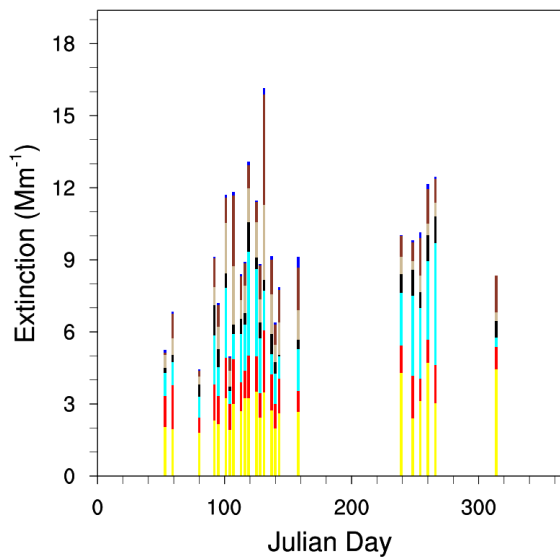
White Pass, WA



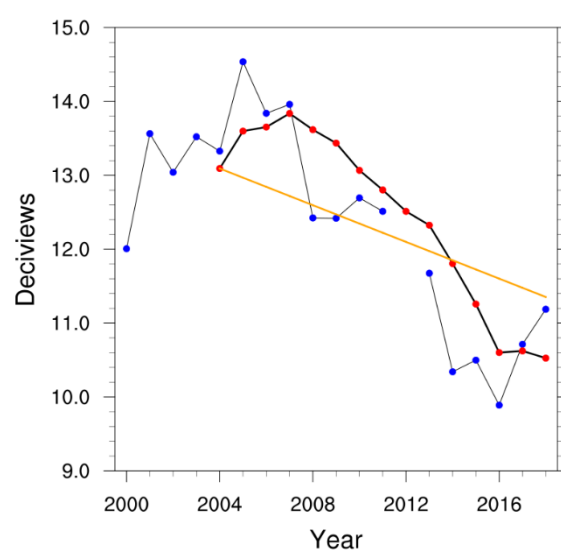
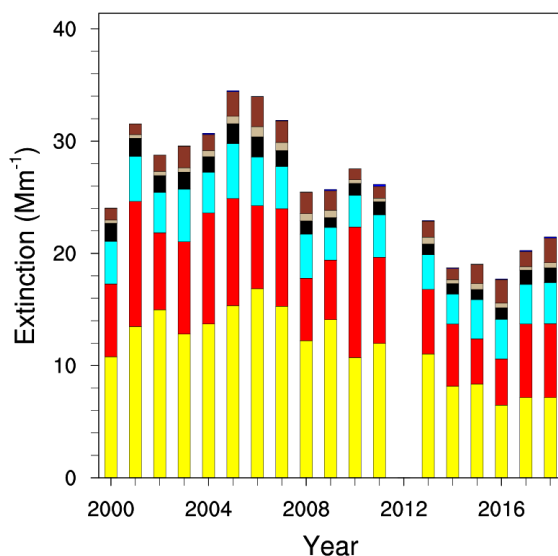
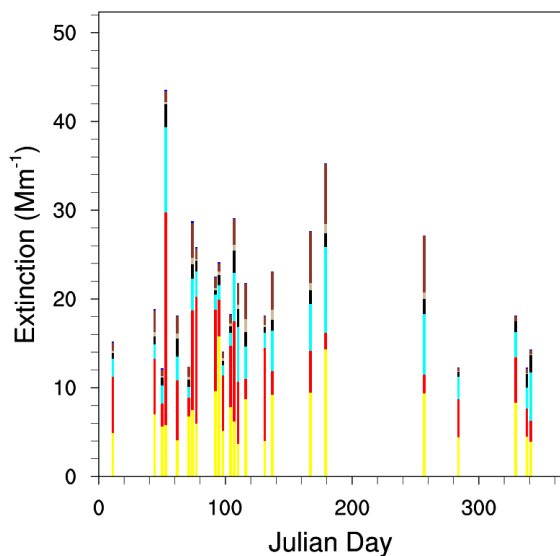
Wheeler Peak, NM



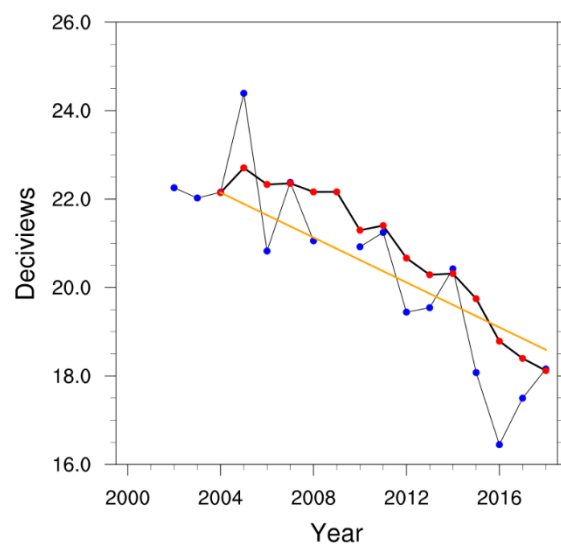
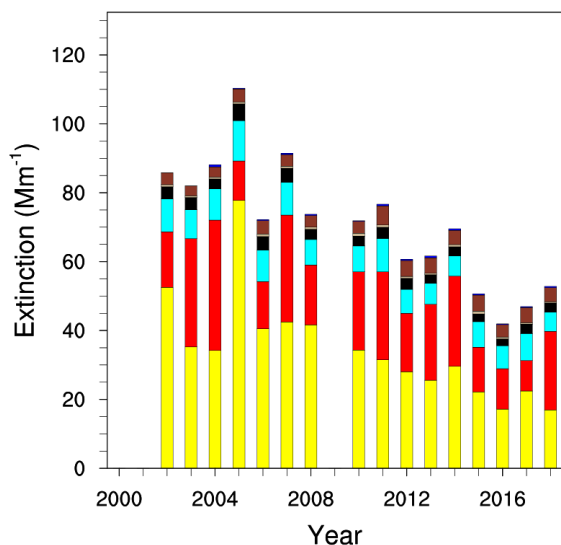
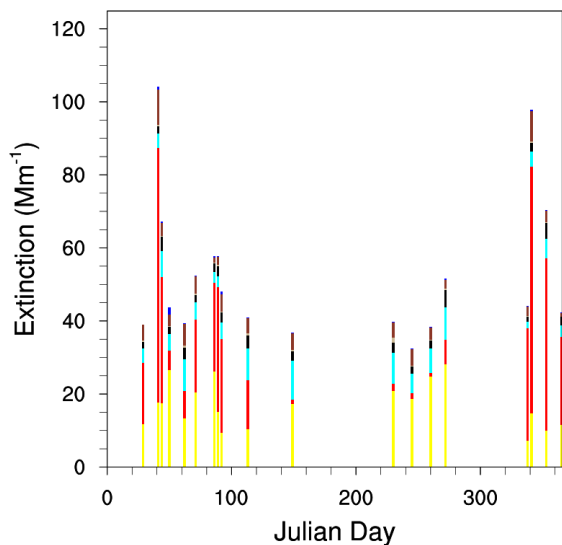
White River National Forest, CO



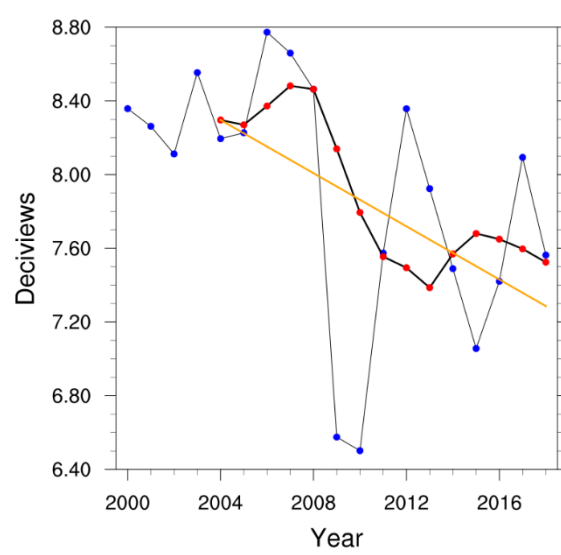
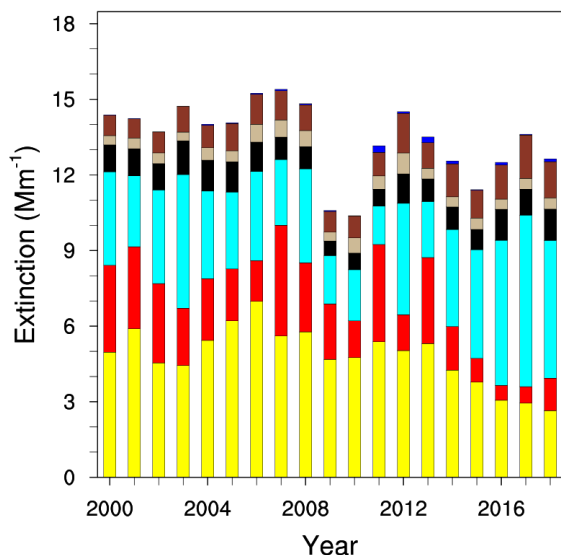
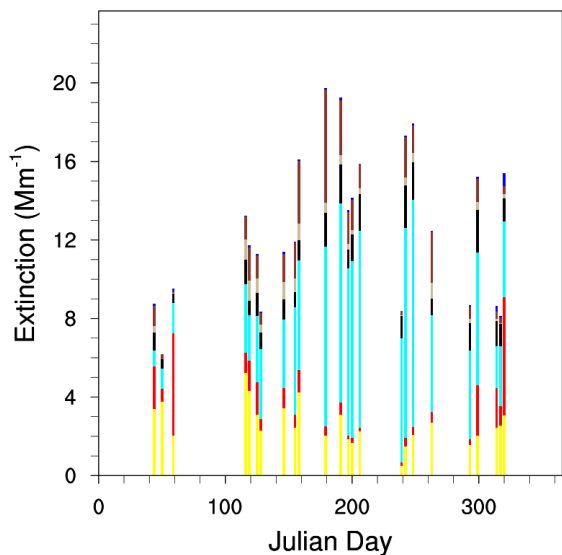
Wind Cave, SD



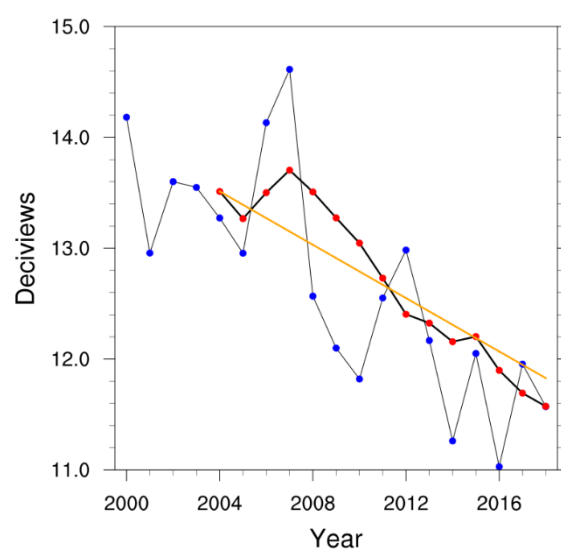
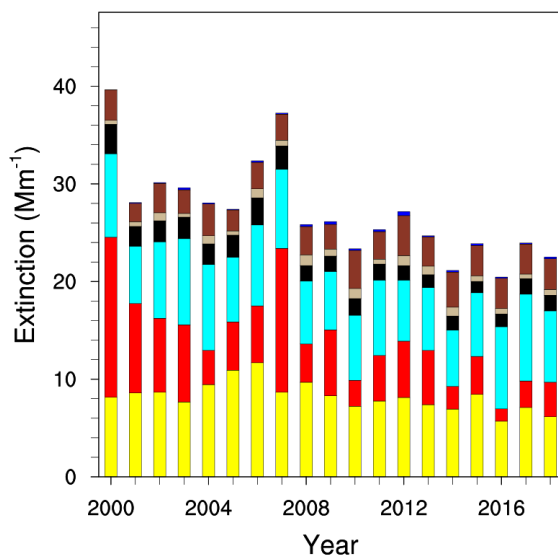
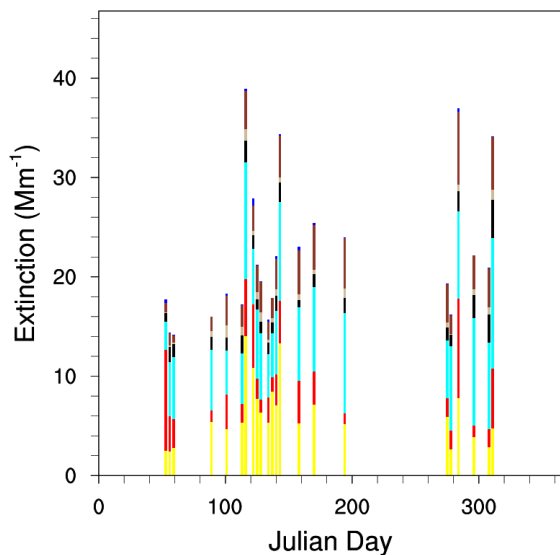
Wichita Mountains, OK



Yellowstone National Park, WY



Yosemite National Park, CA



Zion National Park, UT (combined ZION1 and ZICA1 starting 01/01/04)

