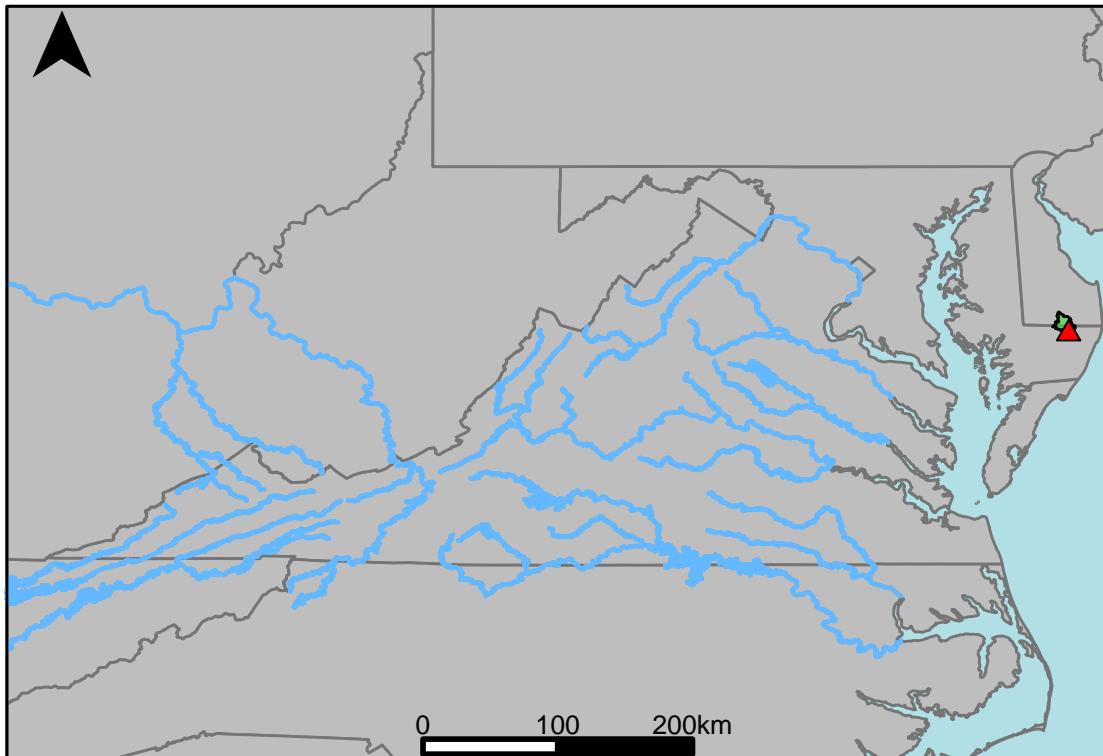


River Segment: EL2_5110_5270 - Scenario 1:
CFBASE30Y20180615 vs. Scenario 2:
CBAE1808L55CY55R45P50R45P50Y



This river segment follows part of the flow of the Pocomoke River near Willards, MD. Gage 01485000 is located in Worcester County, VA (Lat 38 23'20", Long 75 19'28") approximately 1.3 miles east of Willards, VA. Drainage area is 60.5 sq. miles. This gage started taking data in 1949 and is still taking data currently. There are no significant anthropogenic alterations in this area that would affect the flow conditions. The average daily discharge change between scenario 1 and scenario 2 for the 20 year timespan was 5.60748%, with 1.67% of its rolling three month time spans above 20% difference.

Table 1: Monthly Low Flows

	Base 2018	Climate Change	Pct. Difference
Jan. Low Flow	11.5	11.8	2.61
Feb. Low Flow	26.2	26.6	1.53
Mar. Low Flow	36.2	36.8	1.66
Apr. Low Flow	49.4	49.9	1.01
May Low Flow	63.2	63.6	0.63
Jun. Low Flow	60.6	59.2	-2.31
Jul. Low Flow	54.5	54.8	0.55
Aug. Low Flow	41.7	42	0.72
Sep. Low Flow	25.8	25.2	-2.33
Oct. Low Flow	10.4	10	-3.85
Nov. Low Flow	11.2	11.2	0
Dec. Low Flow	12	12.6	5

Table 2: Monthly Average Flows

	Base 2018	Climate Change	Pct. Difference
Overall Mean Flow	74.9	79.1	5.61
Jan. Mean Flow	113	120	6.19
Feb. Mean Flow	122	129	5.74
Mar. Mean Flow	143	146	2.1
Apr. Mean Flow	101	104	2.97
May Mean Flow	77	81.3	5.58
Jun. Mean Flow	44.1	44.7	1.36
Jul. Mean Flow	35.6	37.8	6.18
Aug. Mean Flow	45.2	49.7	9.96
Sep. Mean Flow	46.4	48	3.45
Oct. Mean Flow	45	48.2	7.11
Nov. Mean Flow	52.2	56.7	8.62
Dec. Mean Flow	77.3	85.9	11.13

Table 3: Monthly High Flows

	Base 2018	Climate Change	Pct. Difference
Jan. High Flow	82.4	93.4	13.35
Feb. High Flow	109	126	15.6
Mar. High Flow	132	152	15.15
Apr. High Flow	303	345	13.86
May High Flow	220	240	9.09
Jun. High Flow	370	396	7.03
Jul. High Flow	202	222	9.9
Aug. High Flow	177	218	23.16
Sep. High Flow	78	84.6	8.46
Oct. High Flow	45.2	57.4	26.99
Nov. High Flow	85	113	32.94
Dec. High Flow	57.6	74.6	29.51

Table 4: Period Low Flows

	Base 2018	Climate Change	Pct. Difference
Min. 1 Day Min	1.14	1.03	-9.65
Med. 1 Day Min	5.88	5.68	-3.4
Min. 3 Day Min	1.22	1.1	-9.84
Med. 3 Day Min	6.44	6.3	-2.17
Min. 7 Day Min	1.41	1.28	-9.22
Med. 7 Day Min	7.07	6.93	-1.98
Min. 30 Day Min	2.94	2.87	-2.38
Med. 30 Day Min	14	15	7.14
Min. 90 Day Min	7.62	8.18	7.35
Med. 90 Day Min	20.1	22.5	11.94
7Q10	2.27	2.28	0.44
Year of 90-Day Min. Flow	1987	1987	0
Drought Year Mean	69.9	71.4	2.15
Mean Baseflow	44.9	45.4	1.11

Table 5: Period High Flows

	Base 2018	Climate Change	Pct. Difference
Max. 1 Day Max	1160	1260	8.62
Med. 1 Day Max	607	653	7.58
Max. 3 Day Max	1070	1160	8.41
Med. 3 Day Max	492	535	8.74
Max. 7 Day Max	682	753	10.41
Med. 7 Day Max	366	385	5.19
Max. 30 Day Max	428	467	9.11
Med. 30 Day Max	186	193	3.76
Max. 90 Day Max	262	280	6.87
Med. 90 Day Max	128	133	3.91

Table 6: Non-Exceedance Flows

	Base 2018	Climate Change	Pct. Difference
1% Non-Exceedance	3.21	3.43	6.85
5% Non-Exceedance	7.29	7.42	1.78
50% Non-Exceedance	54	55.8	3.33
95% Non-Exceedance	209	223	6.7
99% Non-Exceedance	485	526	8.45
Sept. 10% Non-Exceedance	5.37	5.76	7.26

Fig. 1: Hydrograph

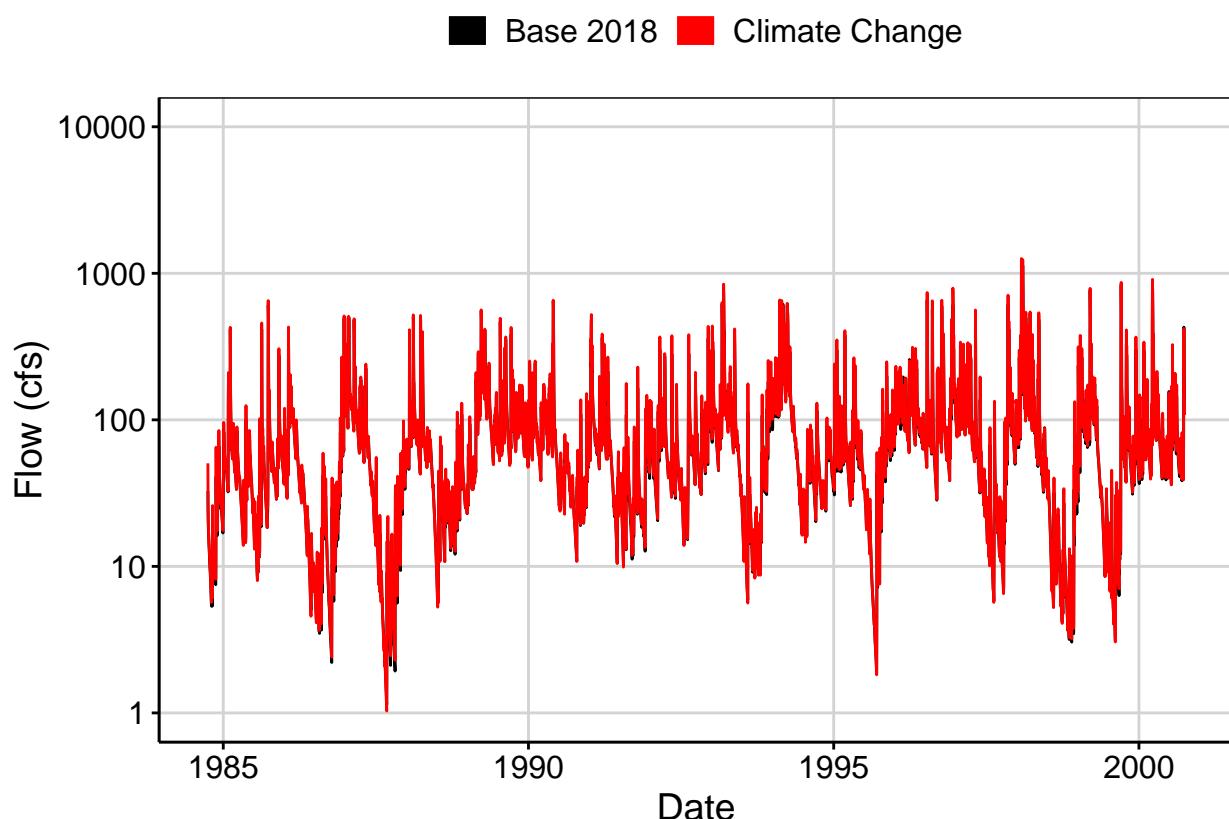


Fig. 2: Zoomed Hydrograph

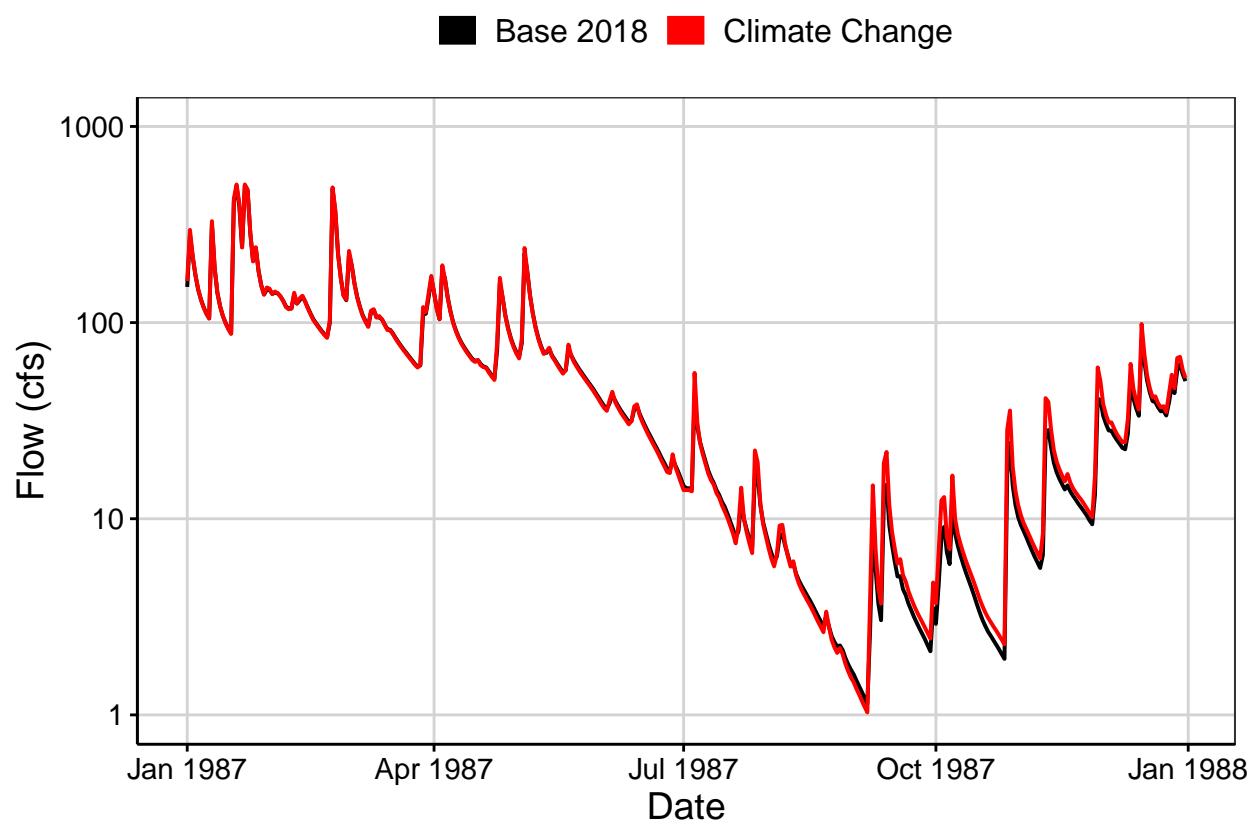


Fig. 3: Flow Exceedance

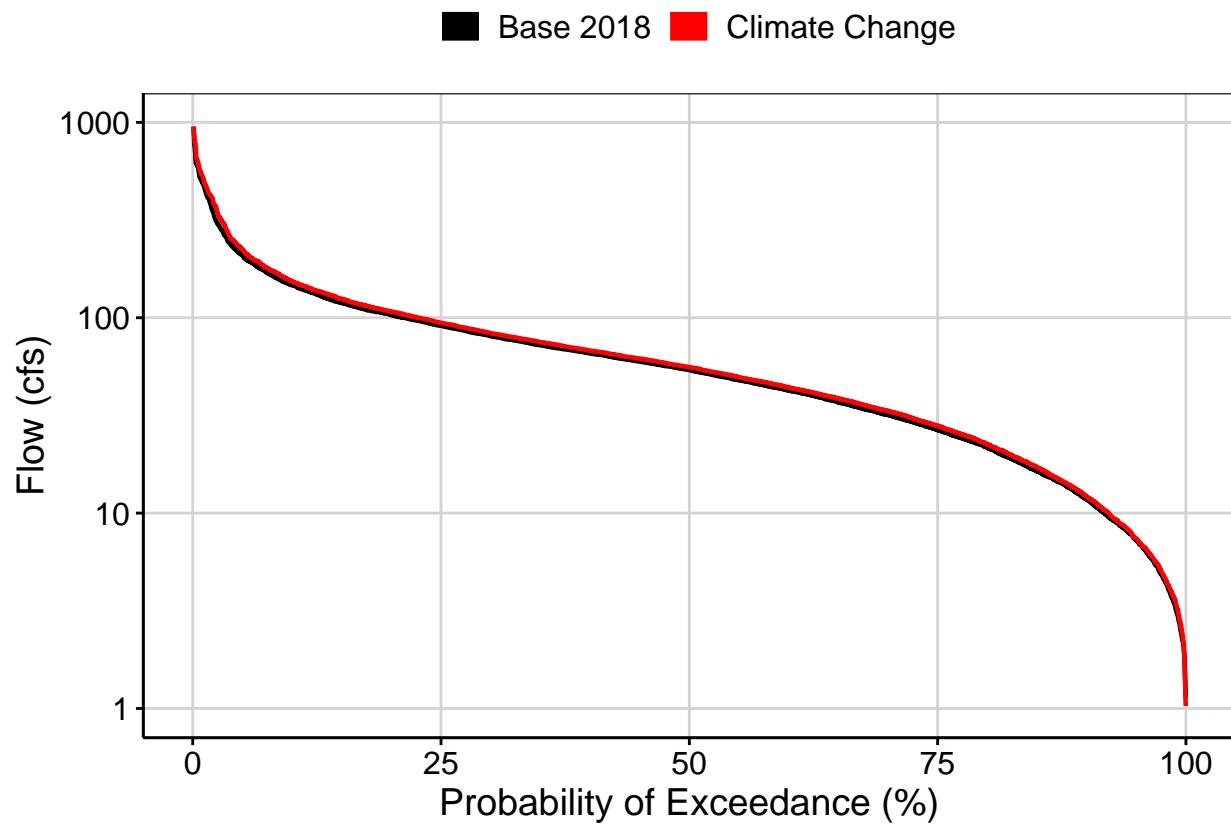


Fig. 4: Baseflow

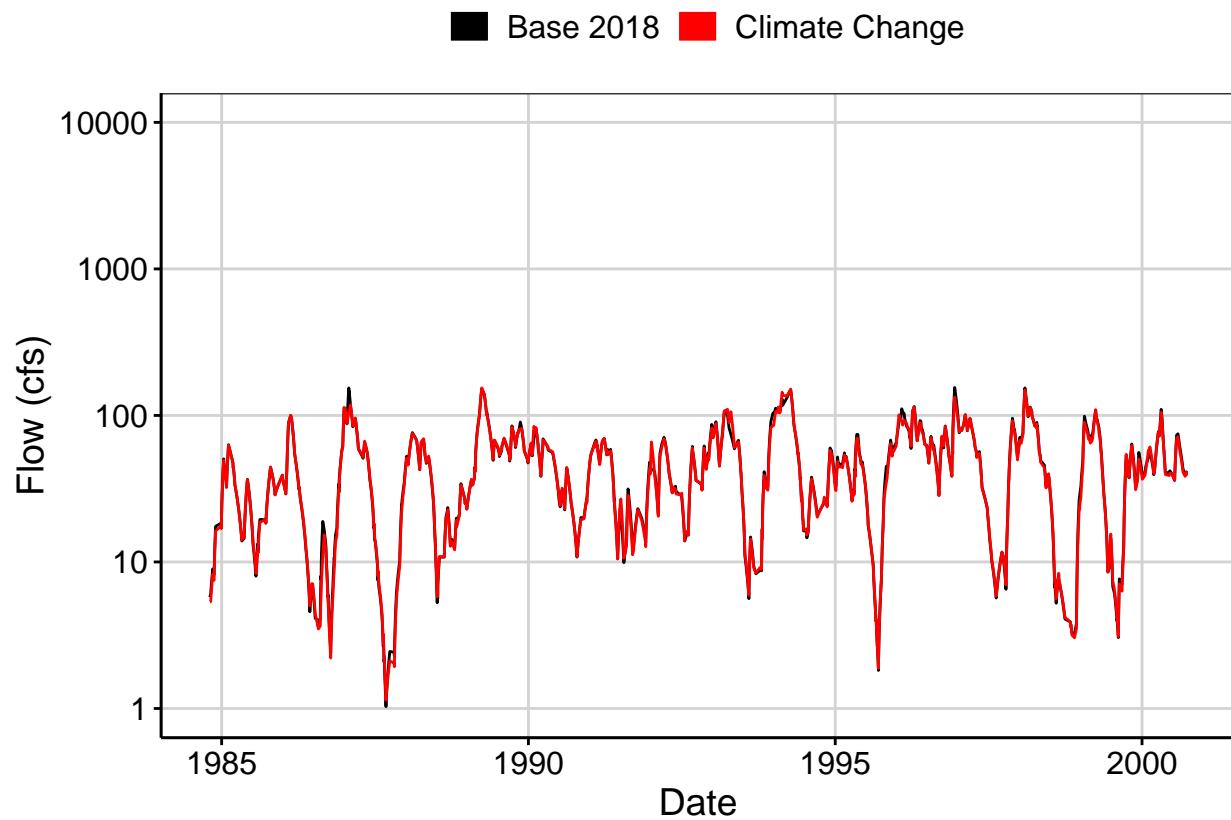


Fig. 5: Combined Baseflow

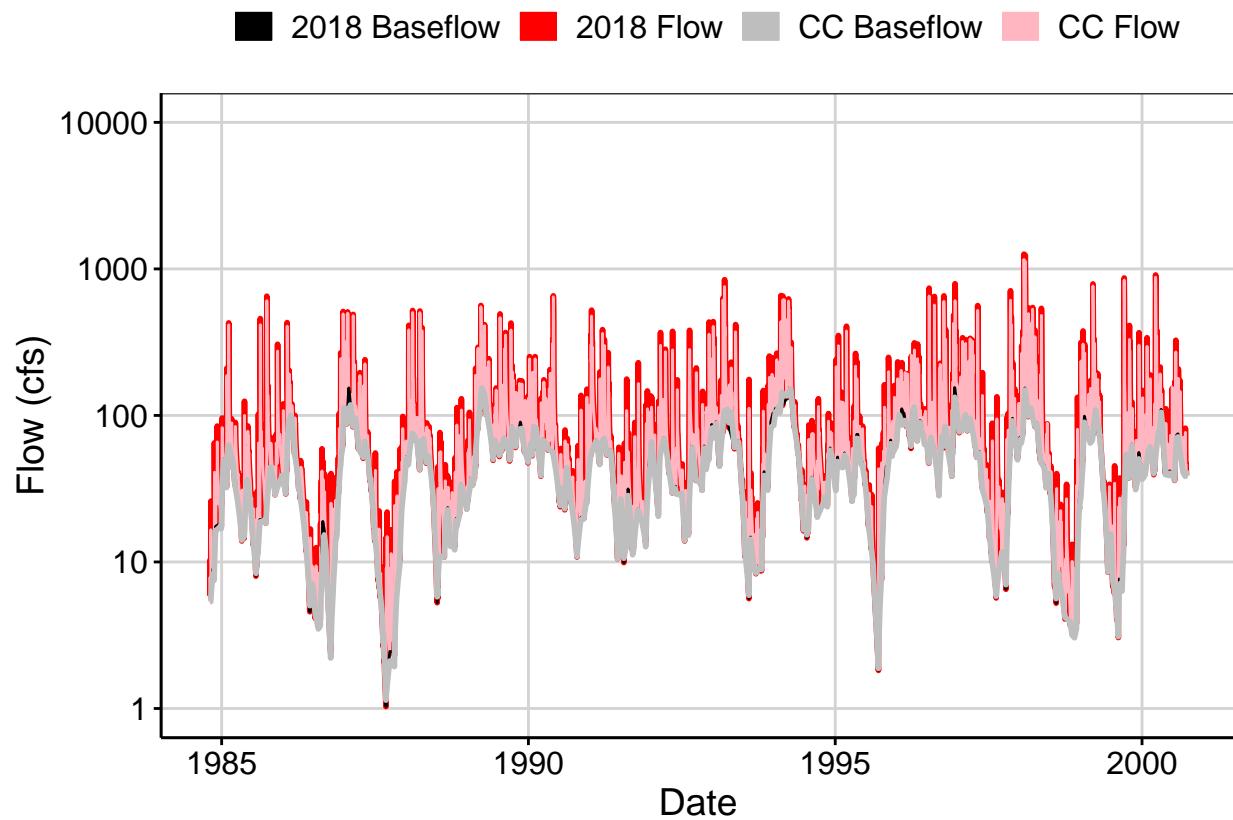


Fig. 6: Largest Difference Segment

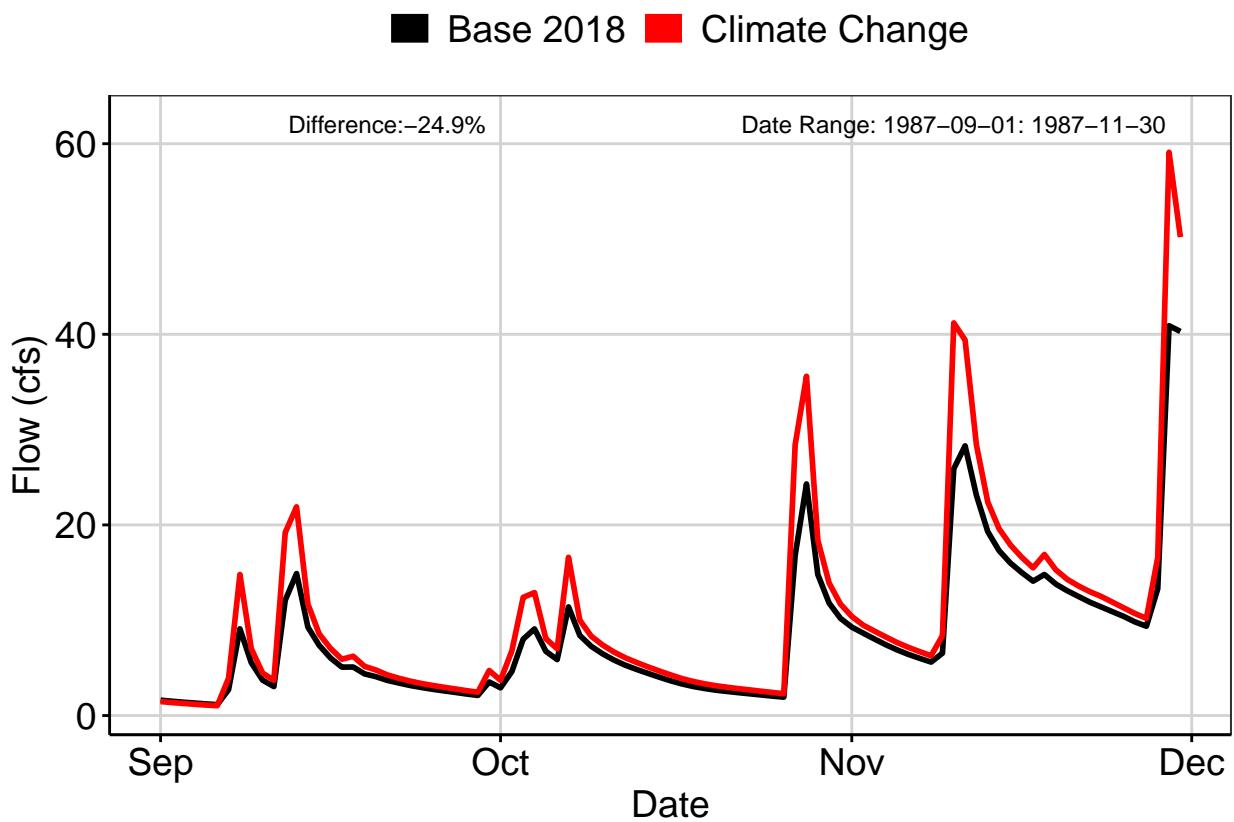


Fig. 7: Second Largest Difference Segment

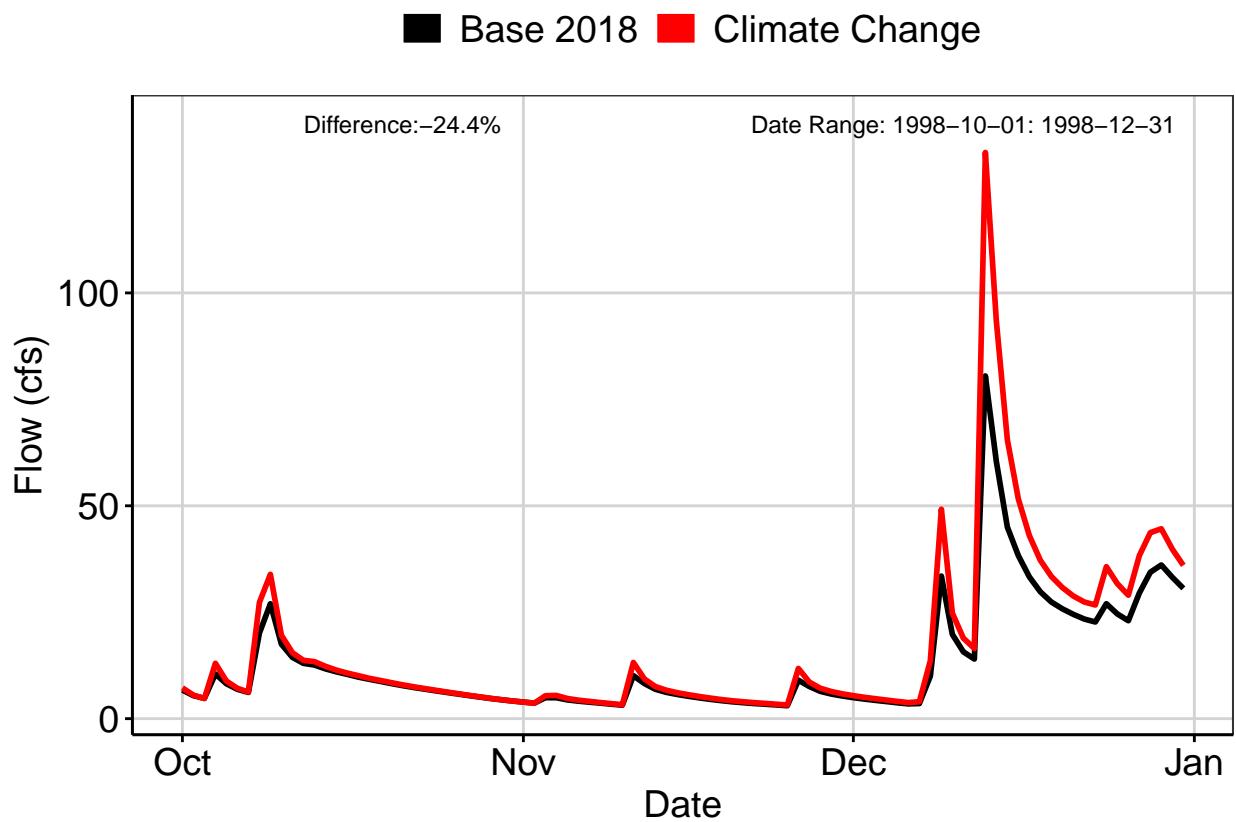


Fig. 8: Third Largest Difference Segment

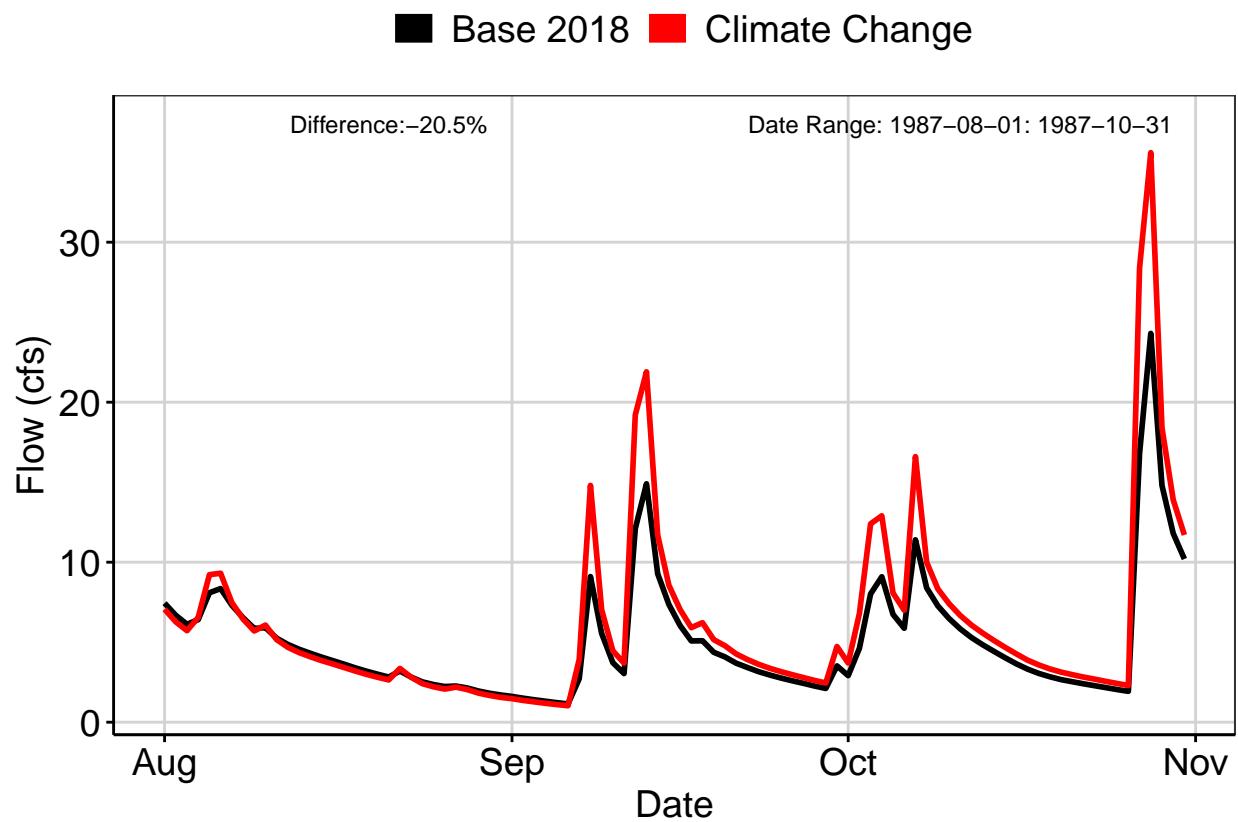


Fig. 9A: Residuals Plot

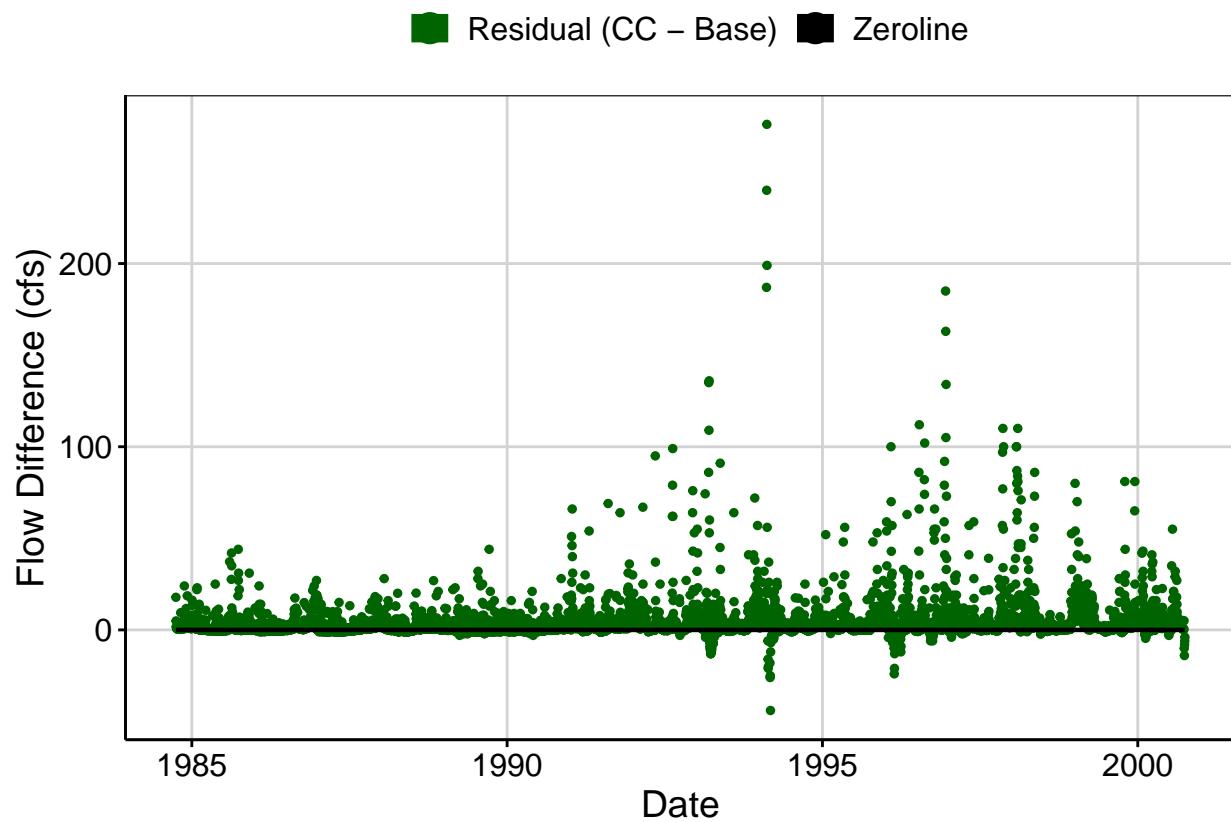


Fig. 9B: Area Weighted Residuals Plot

