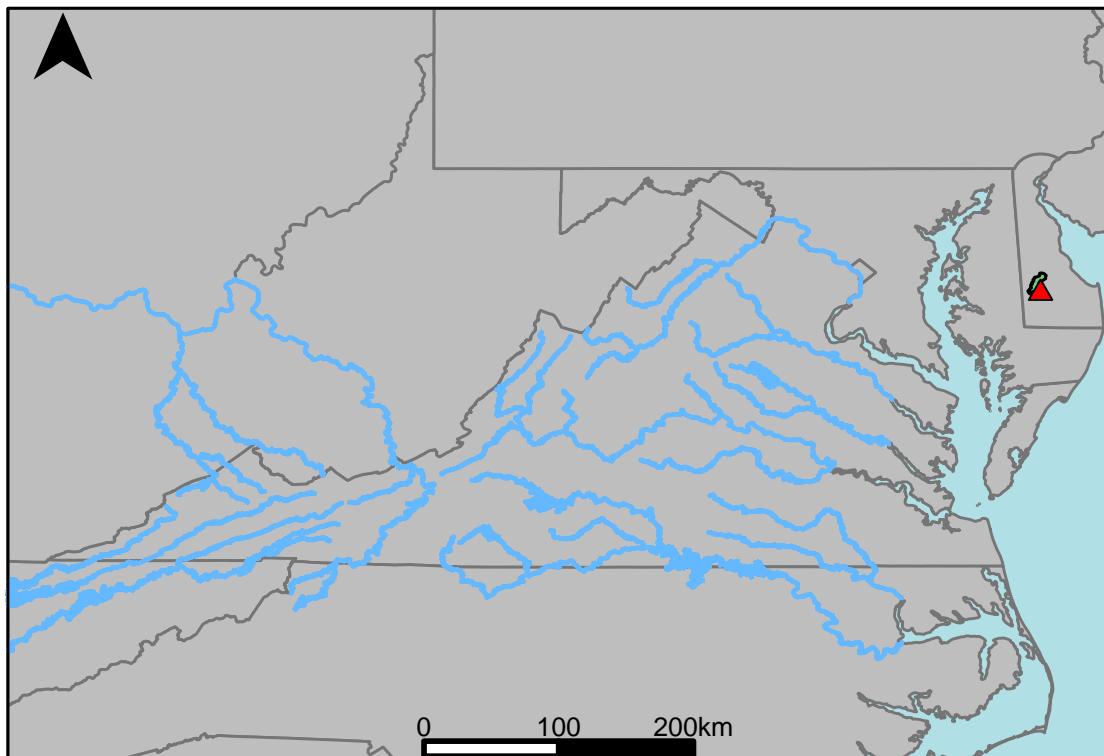


Appendix ##: River Segment: EL0_4560_4562 -
Scenario 1: CFBASE30Y20180615 vs. Scenario 2:
CBASE1808L55CY55R45P50R45P50Y



This river segment follows part of the flow of the Nanticoke River near Bridgeville, DE. Gage 01487000 is located in Sussex County, VA (Lat 38° 43'42", Long 75° 33'42.7") approximately 2.5 miles southeast of Bridgeville, DE. Drainage area is 75.4 sq. miles. This gage started taking data in 1943 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 8.34846%, with 8.33% of its rolling three month time spans above 20% difference.

Table 1: Monthly Low Flows

	Base 2018	Climate Change	Pct. Difference
Jan. Low Flow	11.6	11.9	2.59
Feb. Low Flow	19.9	20	0.5
Mar. Low Flow	29.2	30.8	5.48
Apr. Low Flow	36.4	36.5	0.27
May Low Flow	46	45.8	-0.43
Jun. Low Flow	43	42.8	-0.47
Jul. Low Flow	43.8	42.4	-3.2
Aug. Low Flow	35.5	34.6	-2.54
Sep. Low Flow	21.2	20.8	-1.89
Oct. Low Flow	12.2	11.6	-4.92
Nov. Low Flow	13.6	13.8	1.47
Dec. Low Flow	12.8	13.4	4.69

Table 2: Monthly Average Flows

	Base 2018	Climate Change	Pct. Difference
Overall Mean Flow	55.1	59.7	8.35
Jan. Mean Flow	77.1	85.4	10.77
Feb. Mean Flow	82.1	88.6	7.92
Mar. Mean Flow	99.6	104	4.42
Apr. Mean Flow	74.3	76.3	2.69
May Mean Flow	60.6	64.5	6.44
Jun. Mean Flow	38	38.6	1.58
Jul. Mean Flow	30.3	32.7	7.92
Aug. Mean Flow	35.1	40.4	15.1
Sep. Mean Flow	36.8	40.7	10.6
Oct. Mean Flow	34.6	38.6	11.56
Nov. Mean Flow	38.7	44.2	14.21
Dec. Mean Flow	55.7	64.4	15.62

Table 3: Monthly High Flows

	Base 2018	Climate Change	Pct. Difference
Jan. High Flow	57.8	85.3	47.6
Feb. High Flow	77.4	107	38.2
Mar. High Flow	87.8	133	51.5
Apr. High Flow	196	246	25.5
May High Flow	130	181	39.2
Jun. High Flow	227	271	19.4
Jul. High Flow	140	164	17.1
Aug. High Flow	133	168	26.3
Sep. High Flow	61.9	74	19.6
Oct. High Flow	47.4	62.2	31.2
Nov. High Flow	71.9	106	47.4
Dec. High Flow	73	110	50.7

Table 4: Period Low Flows

	Base 2018	Climate Change	Pct. Difference
Min. 1 Day Min	2.37	2.26	-4.64
Med. 1 Day Min	8.22	7.98	-2.92
Min. 3 Day Min	2.53	2.44	-3.56
Med. 3 Day Min	8.61	8.38	-2.67
Min. 7 Day Min	2.85	2.83	-0.7
Med. 7 Day Min	9.37	9.17	-2.13
Min. 30 Day Min	4.74	4.76	0.42
Med. 30 Day Min	14	15.4	10
Min. 90 Day Min	9.4	10.3	9.57
Med. 90 Day Min	18.7	22.4	19.79
7Q10	3.96	4.14	4.55
Year of 90-Day Min. Flow	1987	1987	0
Drought Year Mean	50.6	53.2	5.14
Mean Baseflow	35.6	35.5	-0.28

Table 5: Period High Flows

	Base 2018	Climate Change	Pct. Difference
Max. 1 Day Max	1140	1360	19.3
Med. 1 Day Max	456	612	34.21
Max. 3 Day Max	691	812	17.51
Med. 3 Day Max	294	348	18.37
Max. 7 Day Max	386	438	13.47
Med. 7 Day Max	227	242	6.61
Max. 30 Day Max	257	286	11.28
Med. 30 Day Max	128	135	5.47
Max. 90 Day Max	172	185	7.56
Med. 90 Day Max	95	101	6.32

Table 6: Non-Exceedance Flows

	Base 2018	Climate Change	Pct. Difference
1% Non-Exceedance	4.86	5.49	12.96
5% Non-Exceedance	9.26	9.78	5.62
50% Non-Exceedance	42.6	44.2	3.76
95% Non-Exceedance	139	158	13.67
99% Non-Exceedance	268	327	22.01
Sept. 10% Non-Exceedance	7.14	8.08	13.17

Fig. 1: Hydrograph

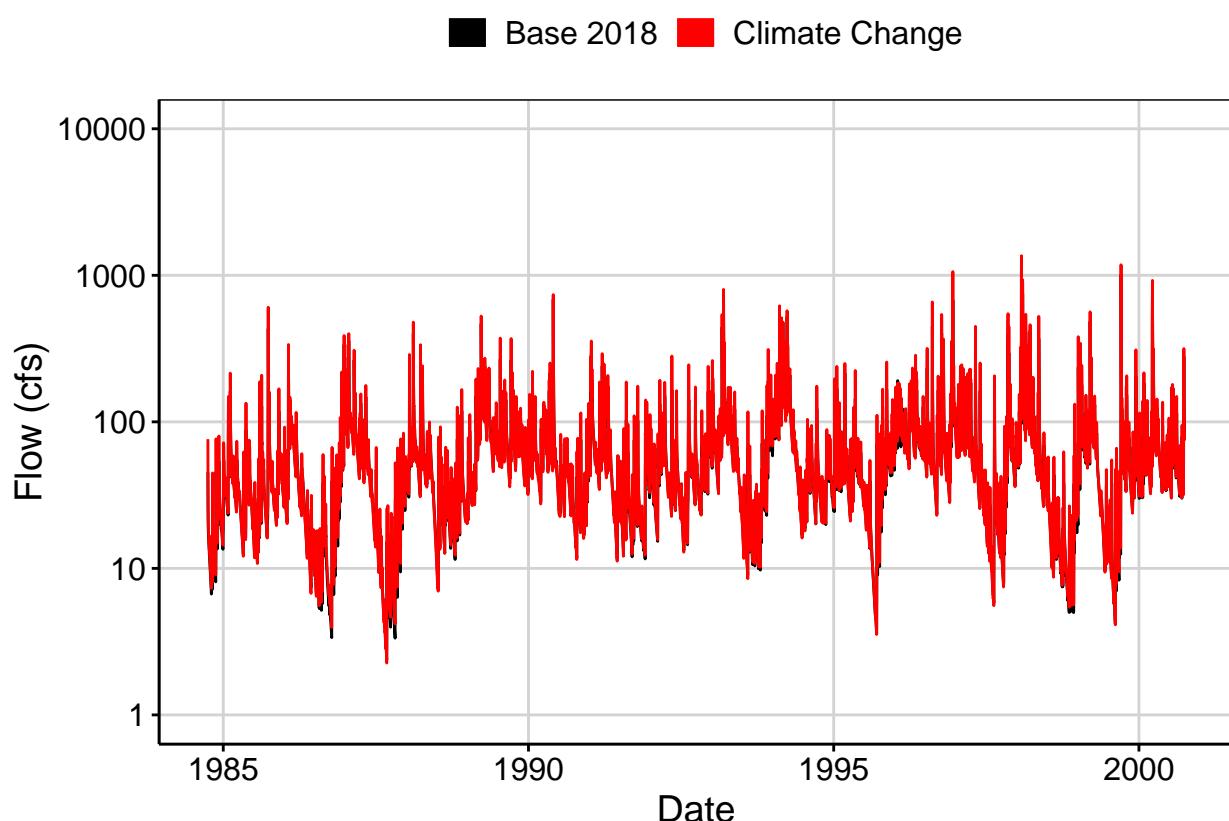


Fig. 2: Zoomed Hydrograph

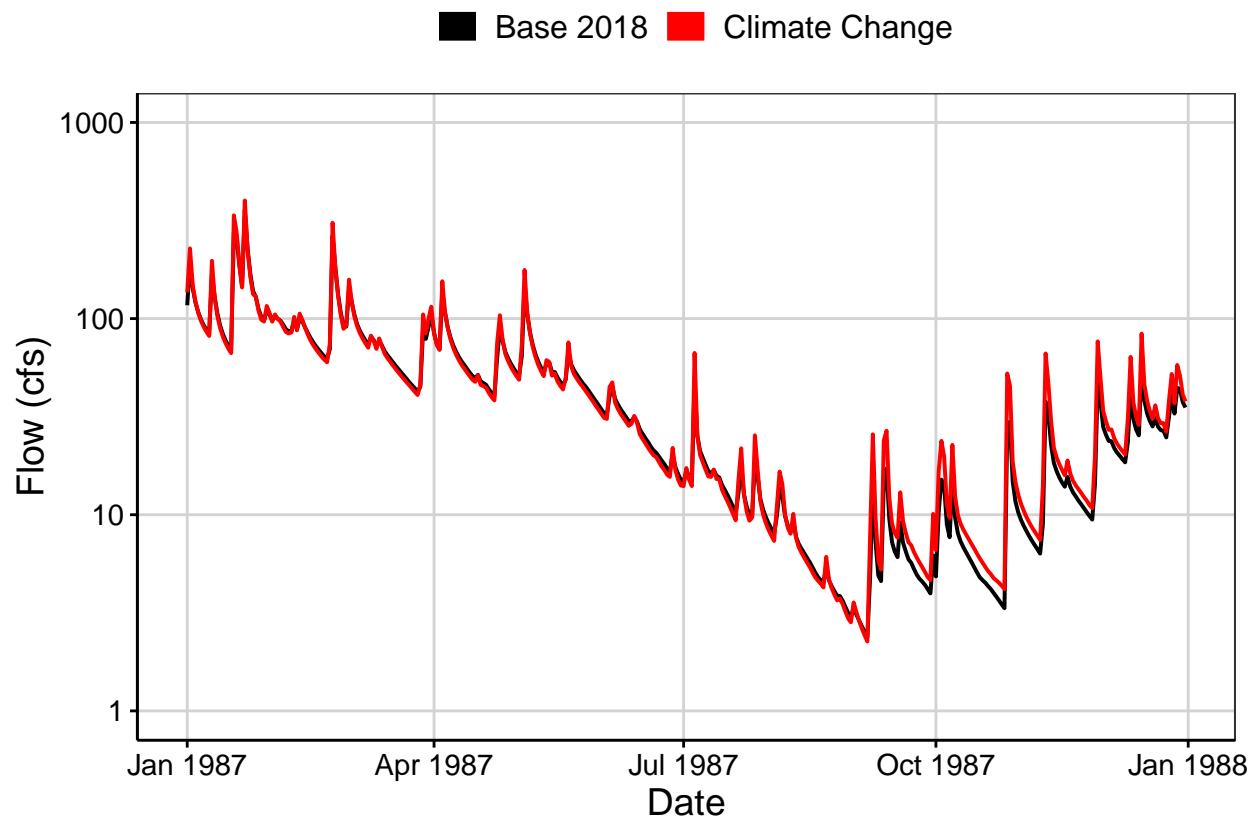


Fig. 3: Flow Exceedance

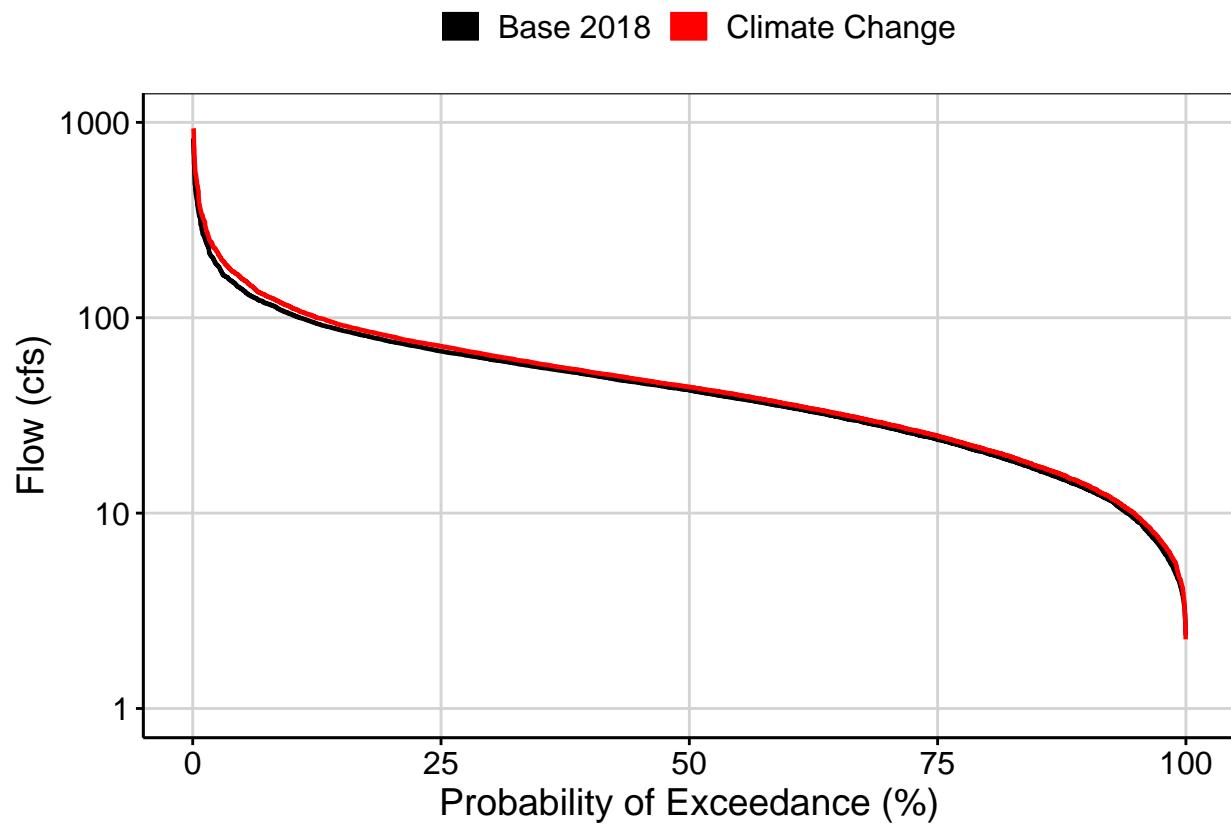


Fig. 4: Baseflow

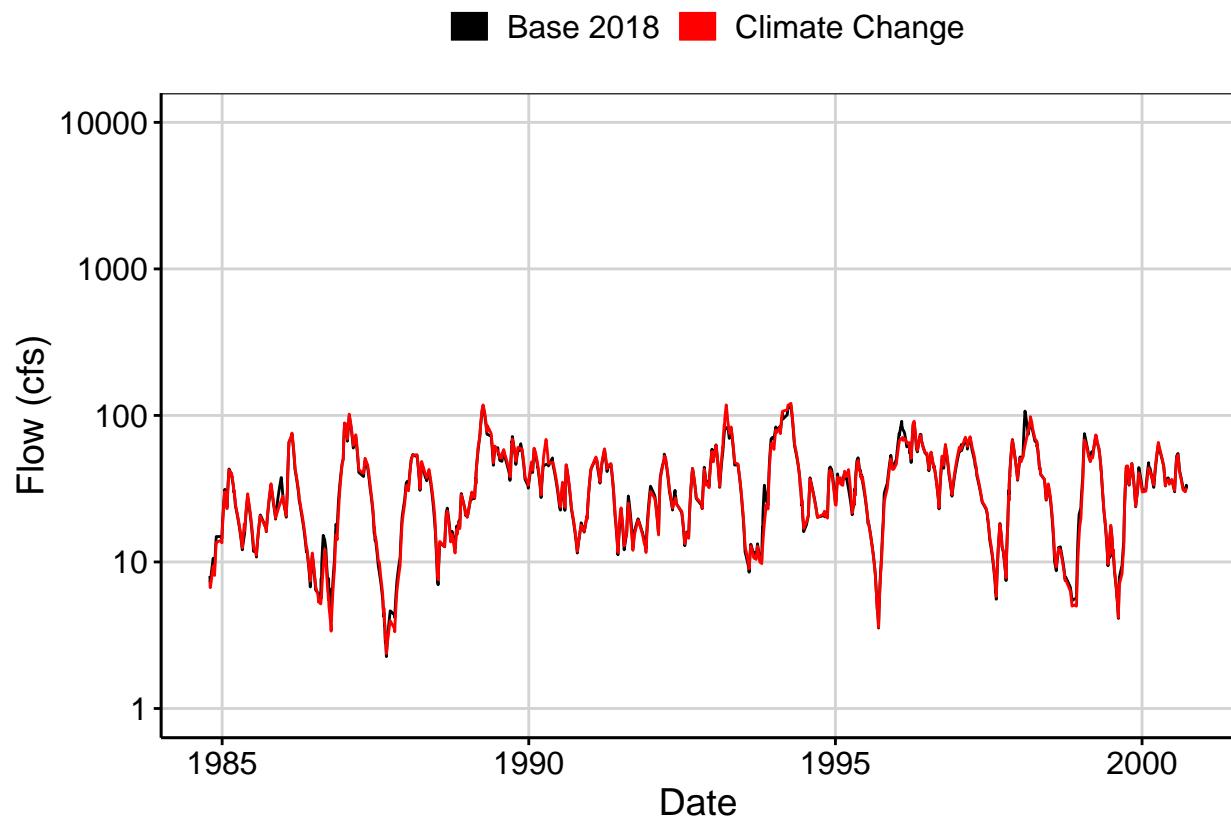


Fig. 5: Combined Baseflow

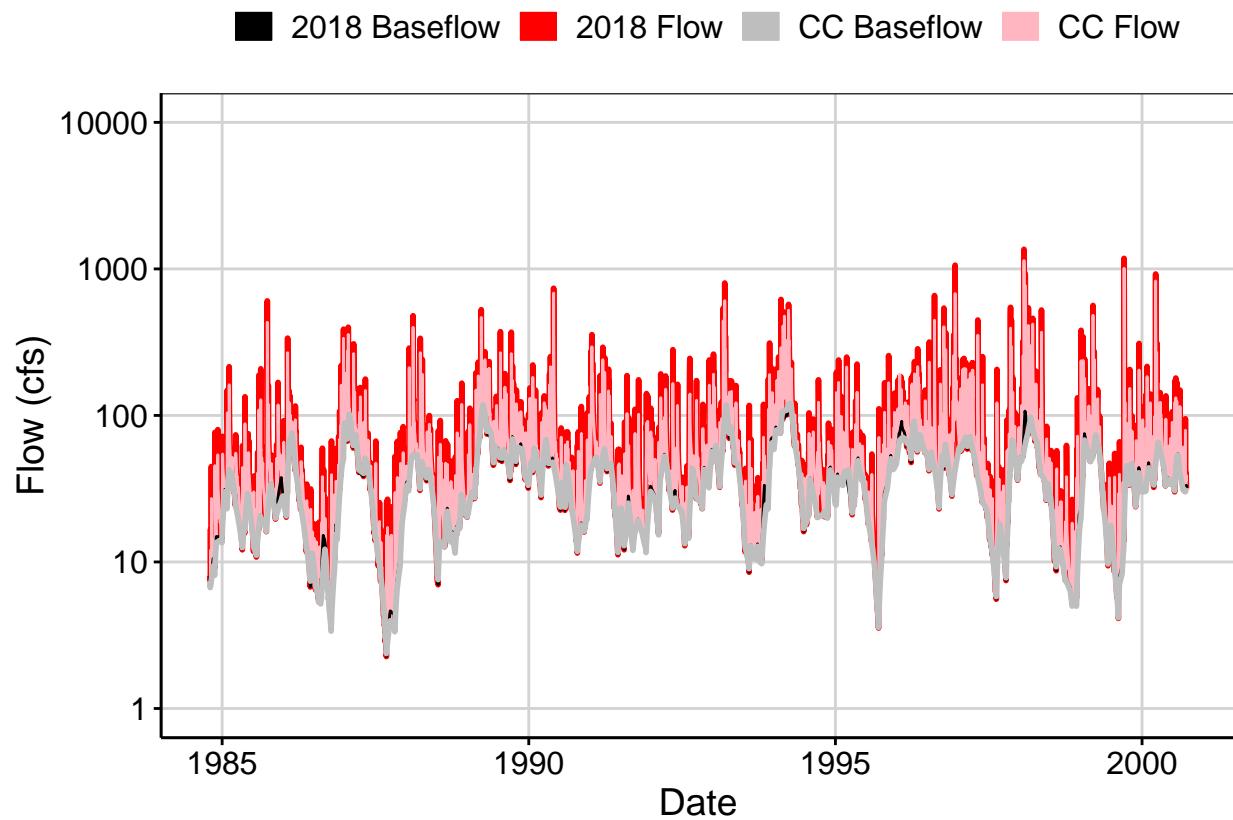


Fig. 6: Largest Difference Segment

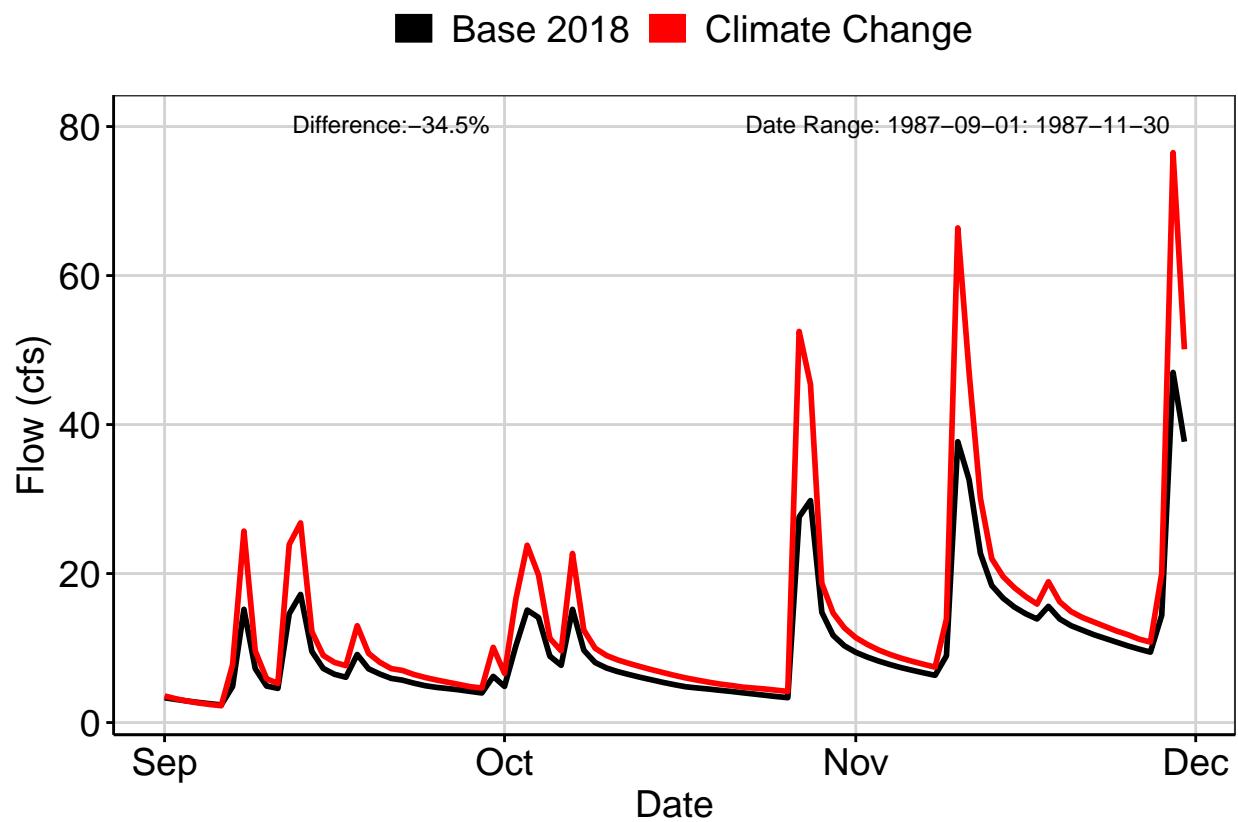


Fig. 7: Second Largest Difference Segment

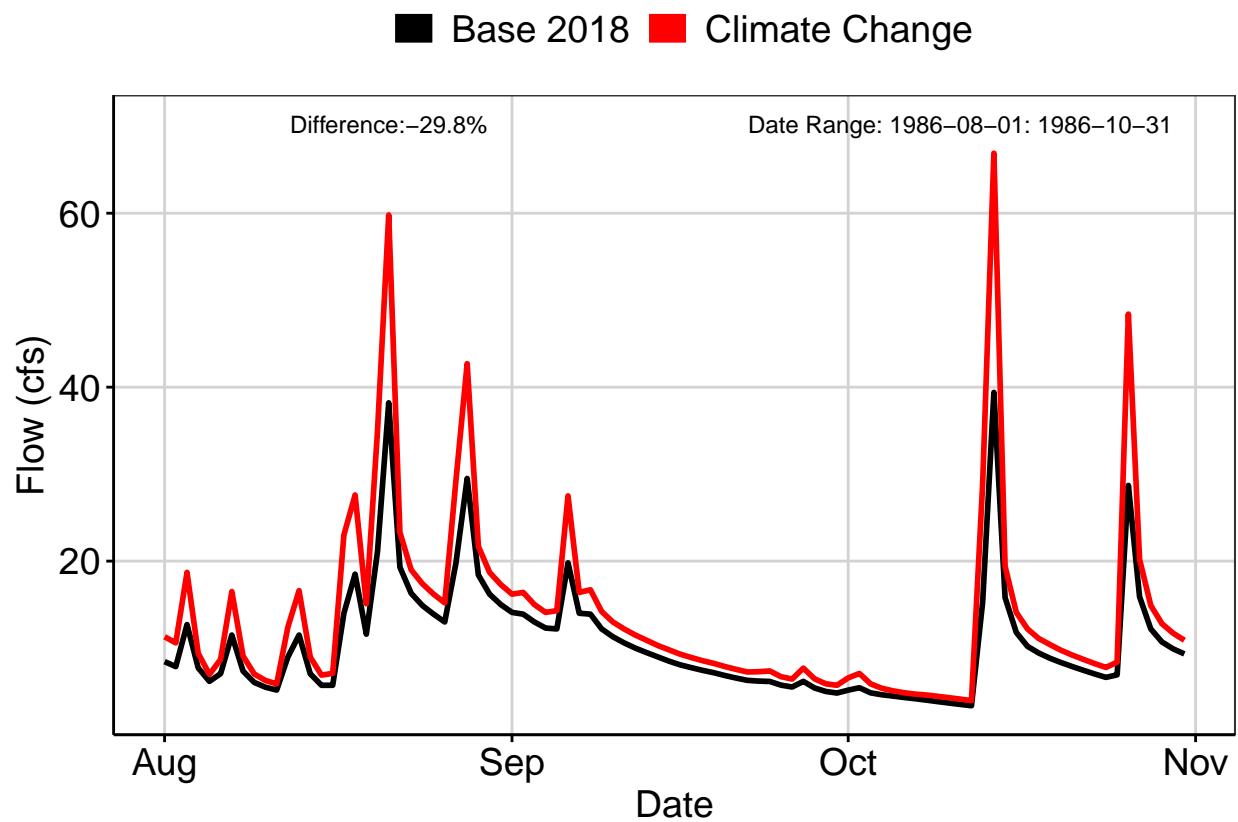


Fig. 8: Third Largest Difference Segment

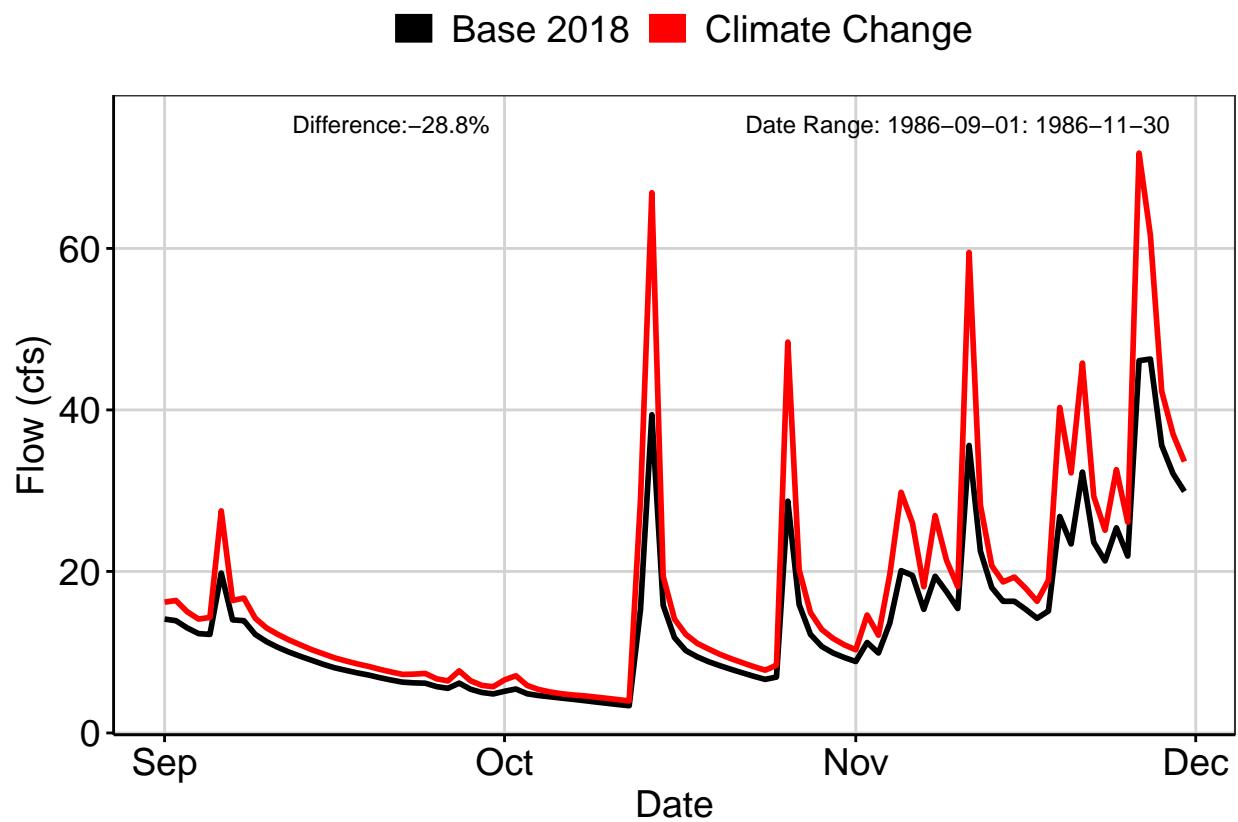


Fig. 9A: Residuals Plot

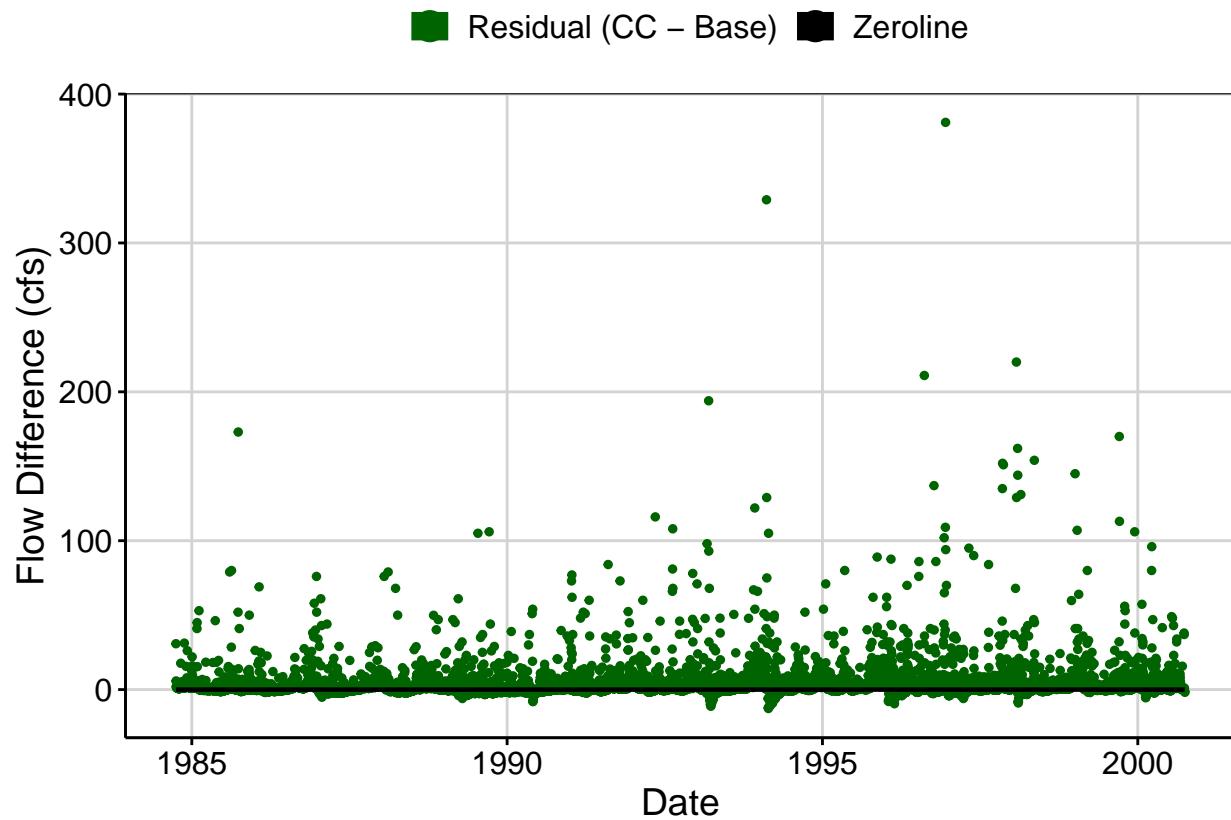


Fig. 9B: Area Weighted Residuals Plot

