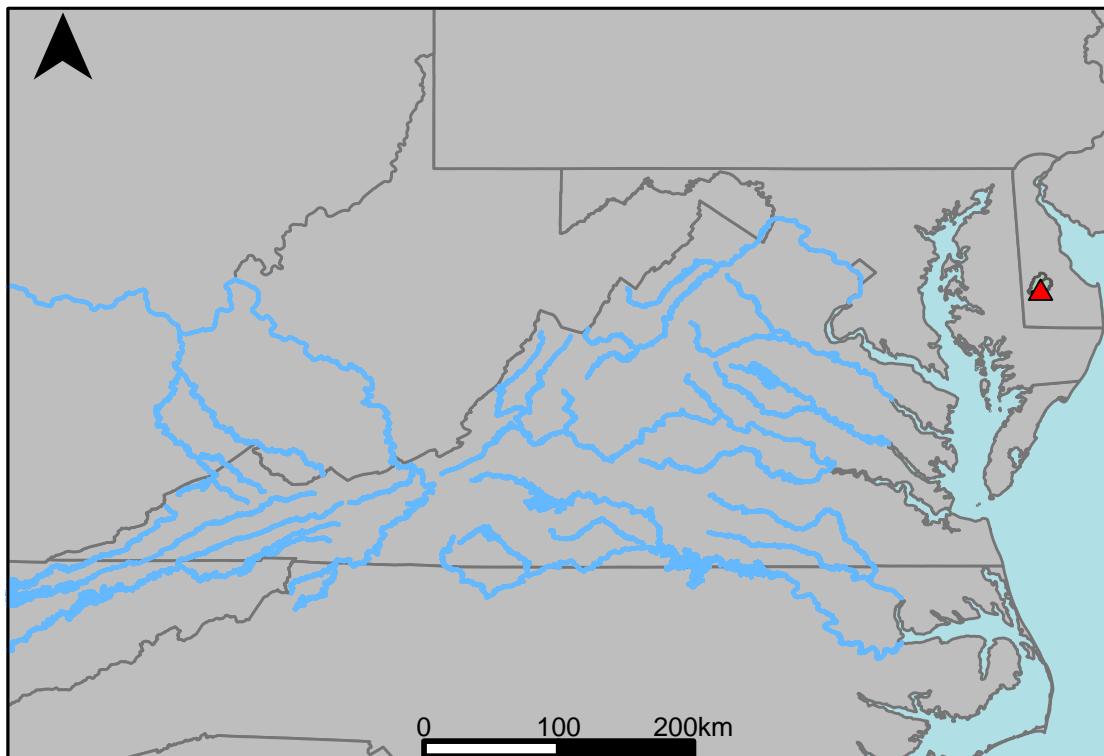


Appendix ##: River Segment: EL0\_4562\_0001 -  
Scenario 1: CFBASE30Y20180615 vs. Scenario 2:  
CBASE1808L55CY55R45P50R45P50Y



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 8.18182%, with 9.44% of its rolling three month time spans above 20% difference.

**Table 1: Monthly Low Flows**

	Base 2018	Climate Change	Pct. Difference
Jan. Low Flow	24.1	24.4	1.24
Feb. Low Flow	43.6	43.6	0
Mar. Low Flow	60.4	61.6	1.99
Apr. Low Flow	74.2	75.2	1.35
May Low Flow	96.8	95	-1.86
Jun. Low Flow	92.6	92.1	-0.54
Jul. Low Flow	93.7	91	-2.88
Aug. Low Flow	75.2	73.2	-2.66
Sep. Low Flow	44.6	43.1	-3.36
Oct. Low Flow	23.6	21.7	-8.05
Nov. Low Flow	26.8	26.8	0
Dec. Low Flow	26	27	3.85

**Table 2: Monthly Average Flows**

	Base 2018	Climate Change	Pct. Difference
Overall Mean Flow	110	119	8.18
Jan. Mean Flow	153	169	10.46
Feb. Mean Flow	165	178	7.88
Mar. Mean Flow	197	205	4.06
Apr. Mean Flow	151	155	2.65
May Mean Flow	122	130	6.56
Jun. Mean Flow	77	78	1.3
Jul. Mean Flow	59.6	64.1	7.55
Aug. Mean Flow	69.9	80.2	14.74
Sep. Mean Flow	72.5	79.9	10.21
Oct. Mean Flow	68.8	76.5	11.19
Nov. Mean Flow	77.5	88.3	13.94
Dec. Mean Flow	110	126	14.55

**Table 3: Monthly High Flows**

	Base 2018	Climate Change	Pct. Difference
Jan. High Flow	109	158	45
Feb. High Flow	146	202	38.4
Mar. High Flow	168	242	44
Apr. High Flow	367	449	22.3
May High Flow	242	330	36.4
Jun. High Flow	432	512	18.5
Jul. High Flow	262	309	17.9
Aug. High Flow	260	334	28.5
Sep. High Flow	116	142	22.4
Oct. High Flow	83.2	114	37
Nov. High Flow	136	195	43.4
Dec. High Flow	122	194	59

**Table 4: Period Low Flows**

	Base 2018	Climate Change	Pct. Difference
Min. 1 Day Min	4.13	3.67	-11.14
Med. 1 Day Min	15	14.8	-1.33
Min. 3 Day Min	4.43	3.97	-10.38
Med. 3 Day Min	15.6	15.5	-0.64
Min. 7 Day Min	5	4.56	-8.8
Med. 7 Day Min	17.2	17.1	-0.58
Min. 30 Day Min	8.49	8.43	-0.71
Med. 30 Day Min	25.8	28.2	9.3
Min. 90 Day Min	17	18.6	9.41
Med. 90 Day Min	35.8	42.3	18.16
7Q10	7.01	7.16	2.14
Year of 90-Day Min. Flow	1987	1987	0
Drought Year Mean	101	106	4.95
Mean Baseflow	74.4	73.8	-0.81

**Table 5: Period High Flows**

	Base 2018	Climate Change	Pct. Difference
Max. 1 Day Max	2260	2700	19.47
Med. 1 Day Max	862	1180	36.89
Max. 3 Day Max	1420	1680	18.31
Med. 3 Day Max	581	685	17.9
Max. 7 Day Max	800	910	13.75
Med. 7 Day Max	443	469	5.87
Max. 30 Day Max	528	586	10.98
Med. 30 Day Max	254	267	5.12
Max. 90 Day Max	344	373	8.43
Med. 90 Day Max	187	198	5.88

**Table 6: Non-Exceedance Flows**

	Base 2018	Climate Change	Pct. Difference
1% Non-Exceedance	8.93	9.84	10.19
5% Non-Exceedance	17	17.7	4.12
50% Non-Exceedance	87.2	90.9	4.24
95% Non-Exceedance	270	309	14.44
99% Non-Exceedance	513	618	20.47
Sept. 10% Non-Exceedance	12.2	14.3	17.21

**Fig. 1: Hydrograph**

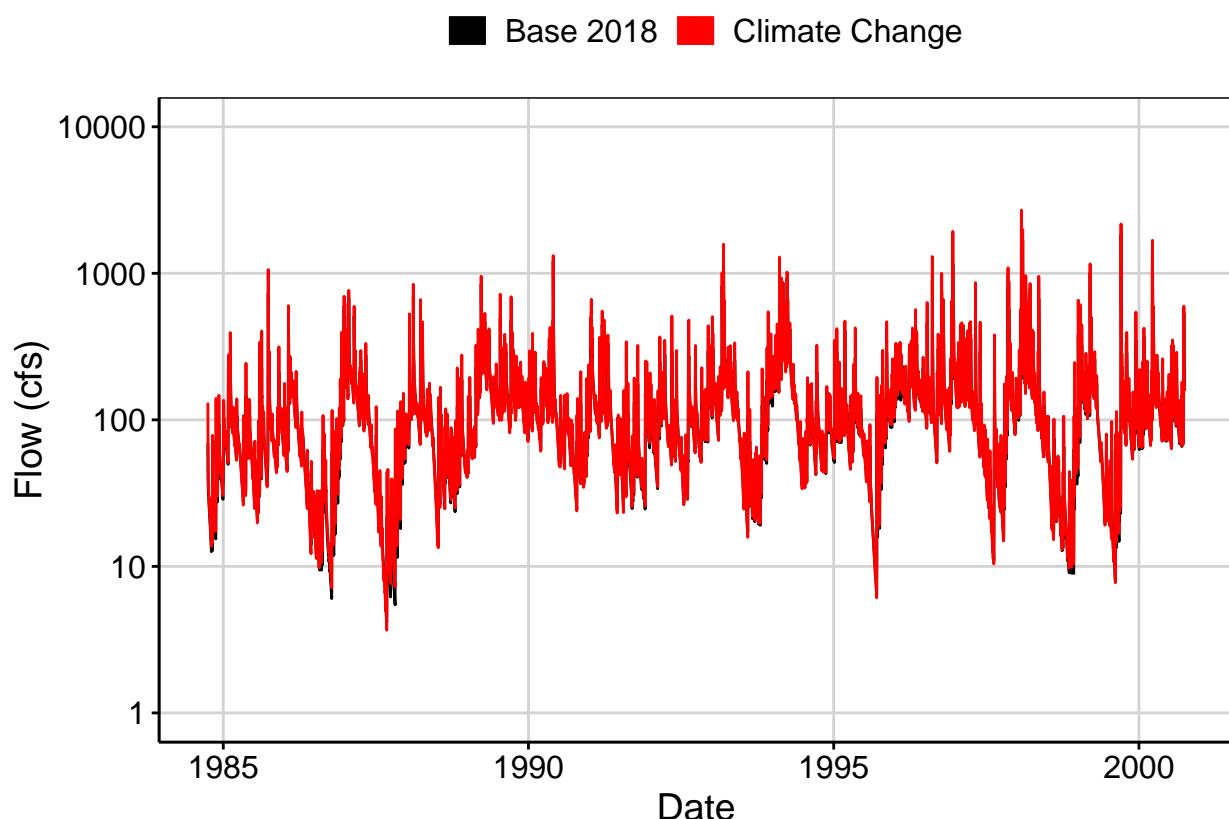


Fig. 2: Zoomed Hydrograph

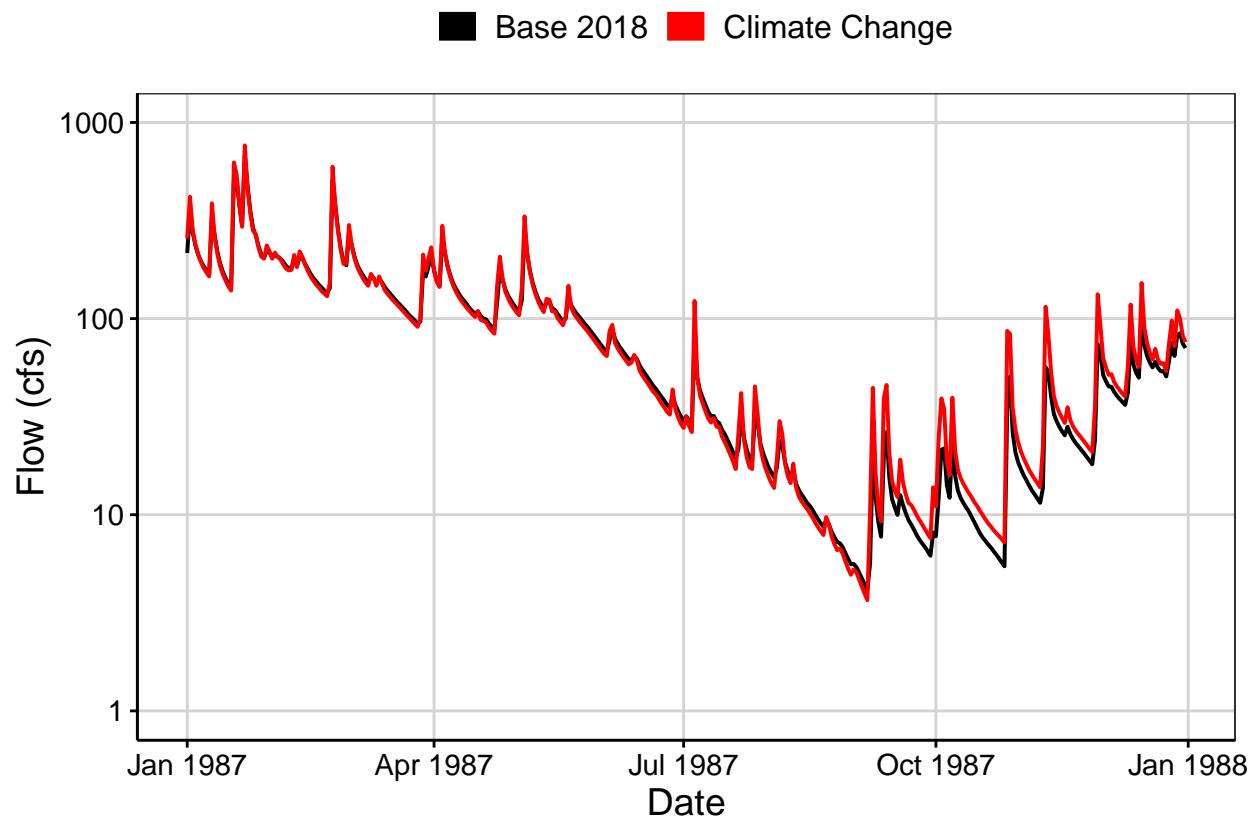


Fig. 3: Flow Exceedance

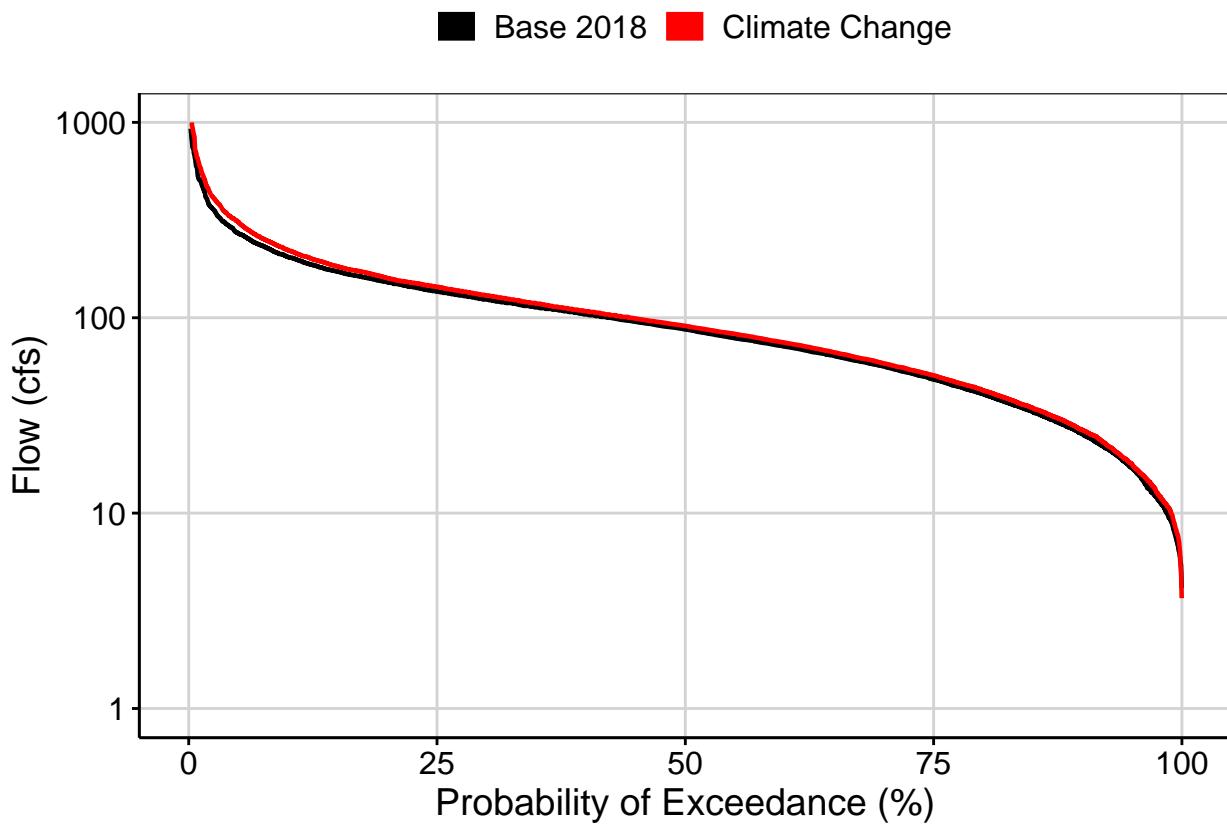
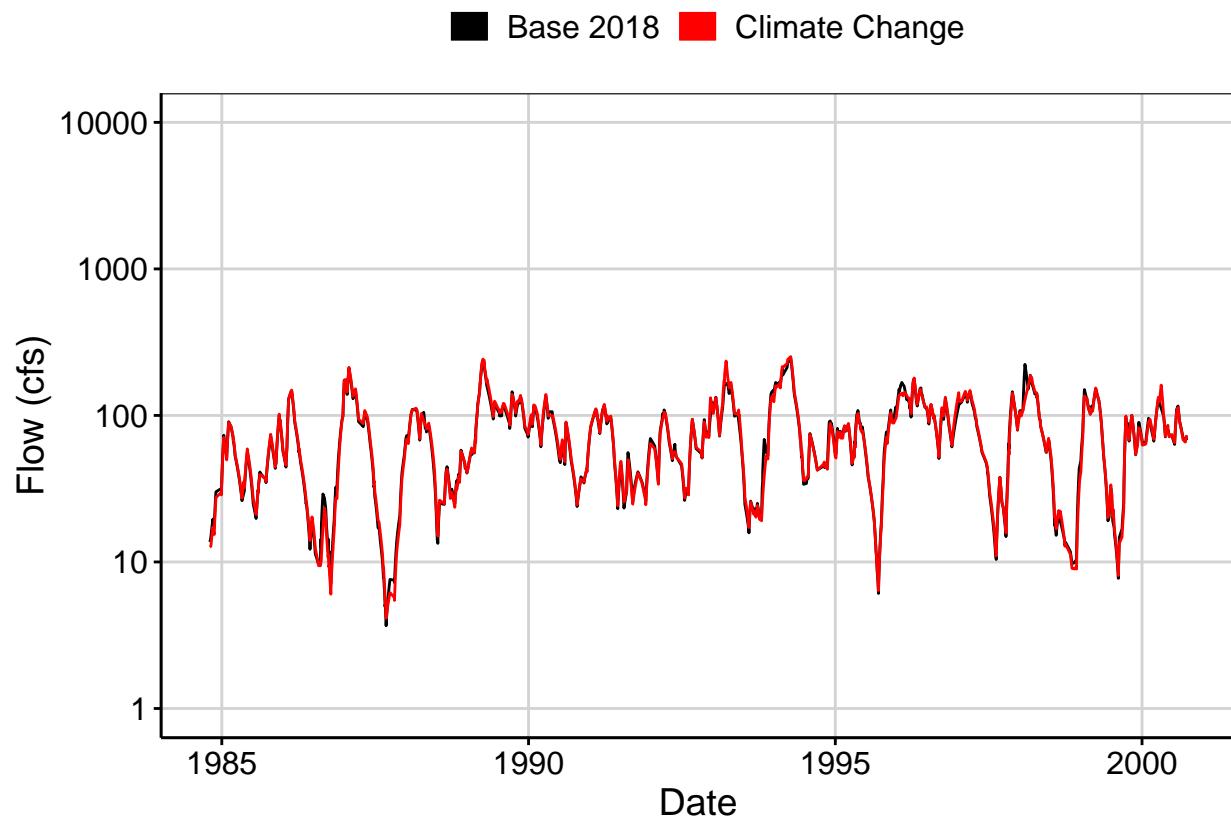


Fig. 4: Baseflow



**Fig. 5: Combined Baseflow**

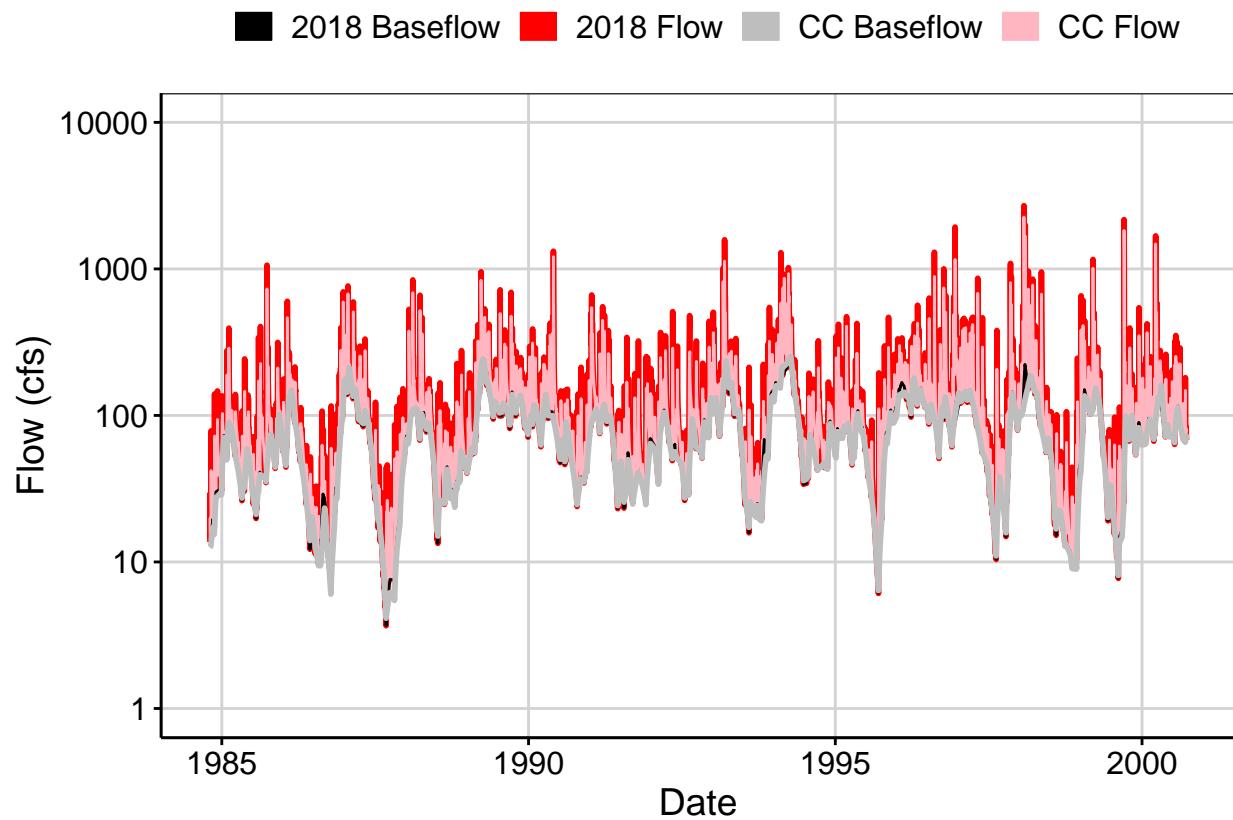


Fig. 6: Largest Difference Segment

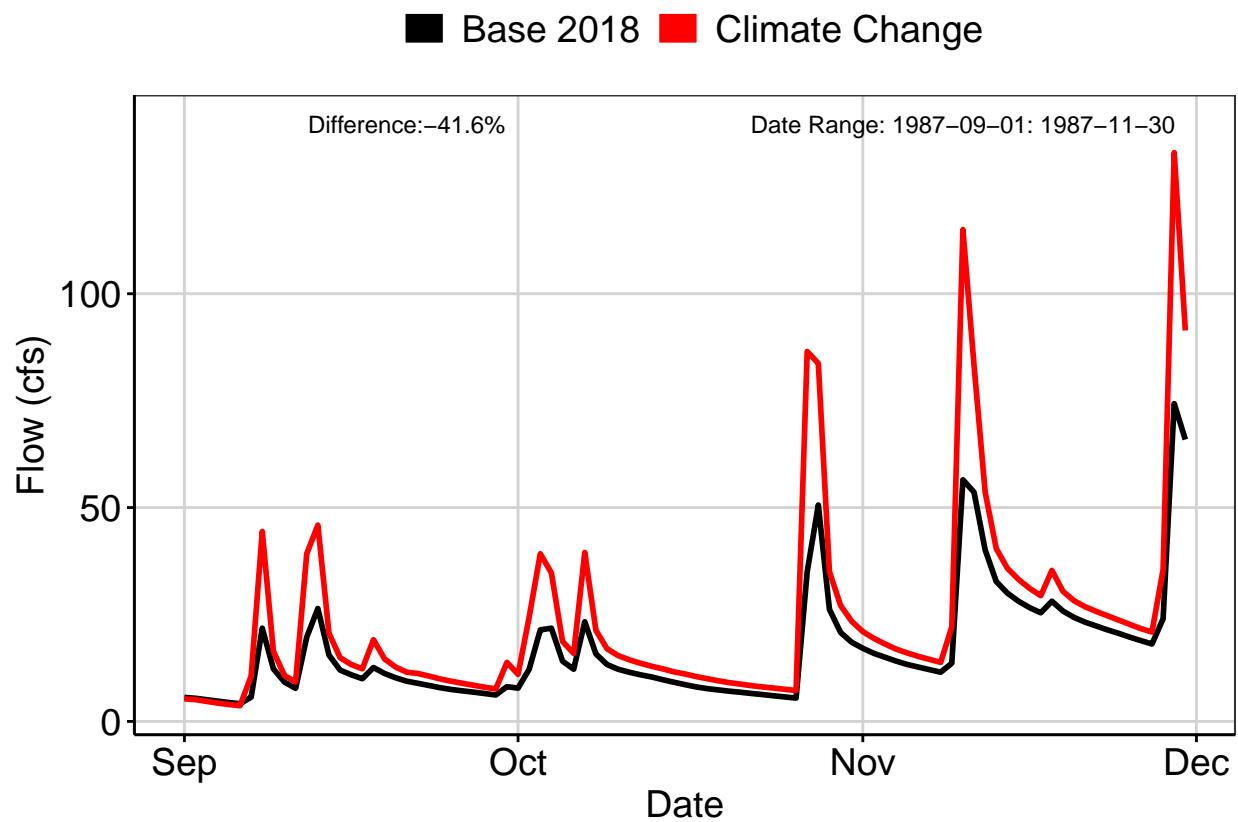


Fig. 7: Second Largest Difference Segment

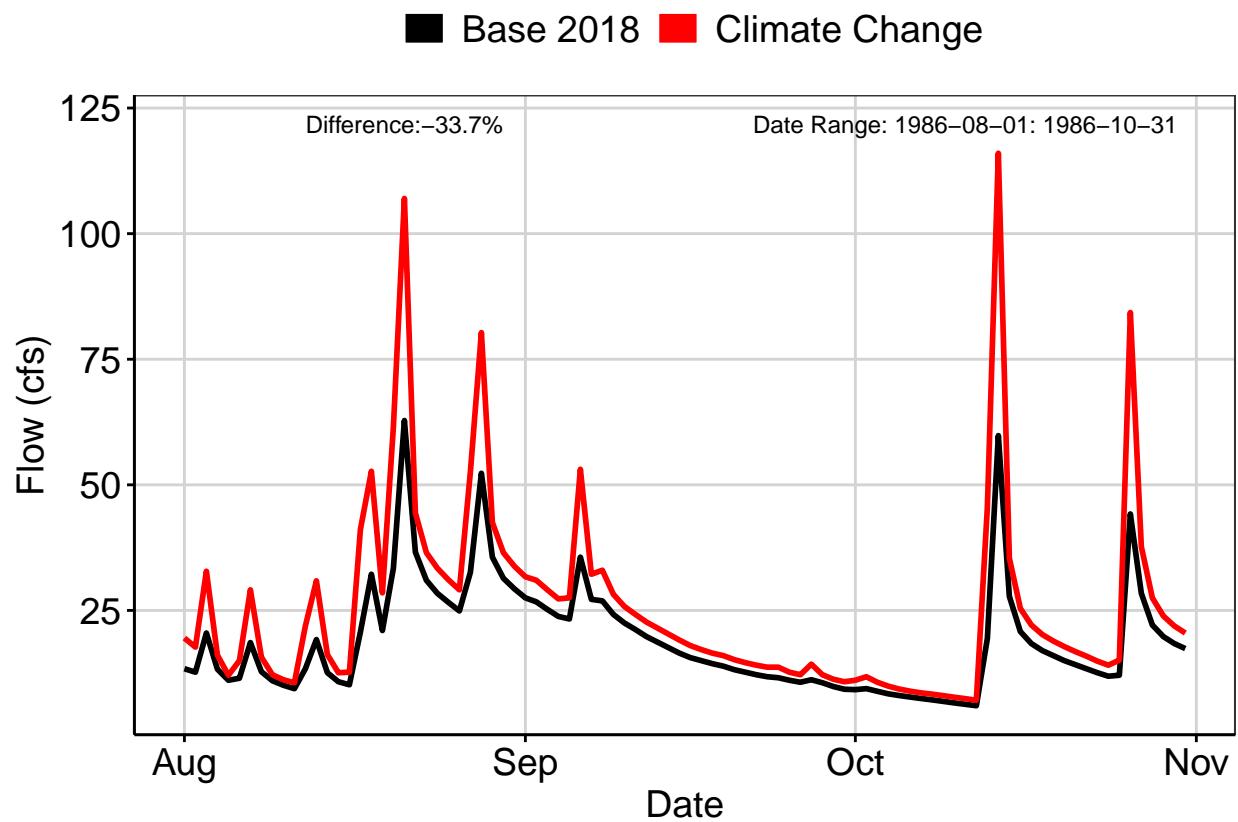


Fig. 8: Third Largest Difference Segment

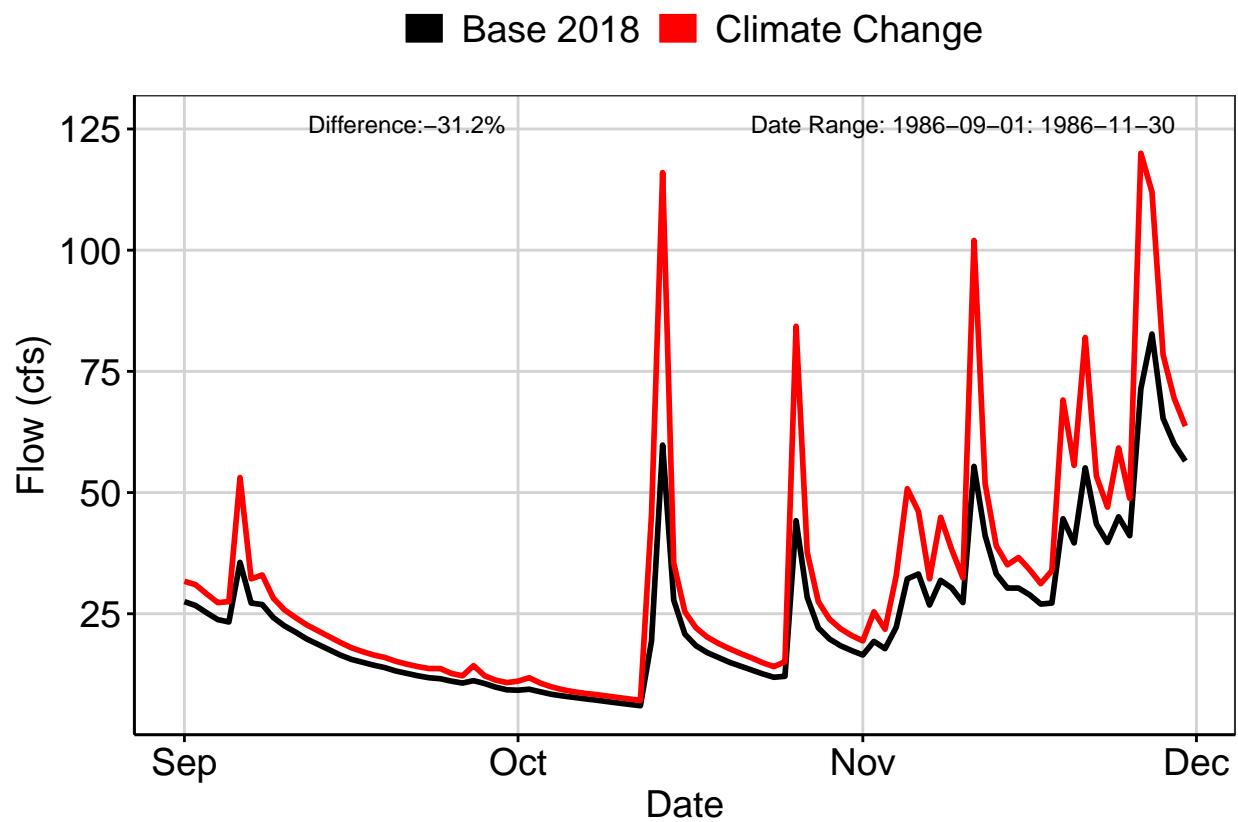


Fig. 9A: Residuals Plot

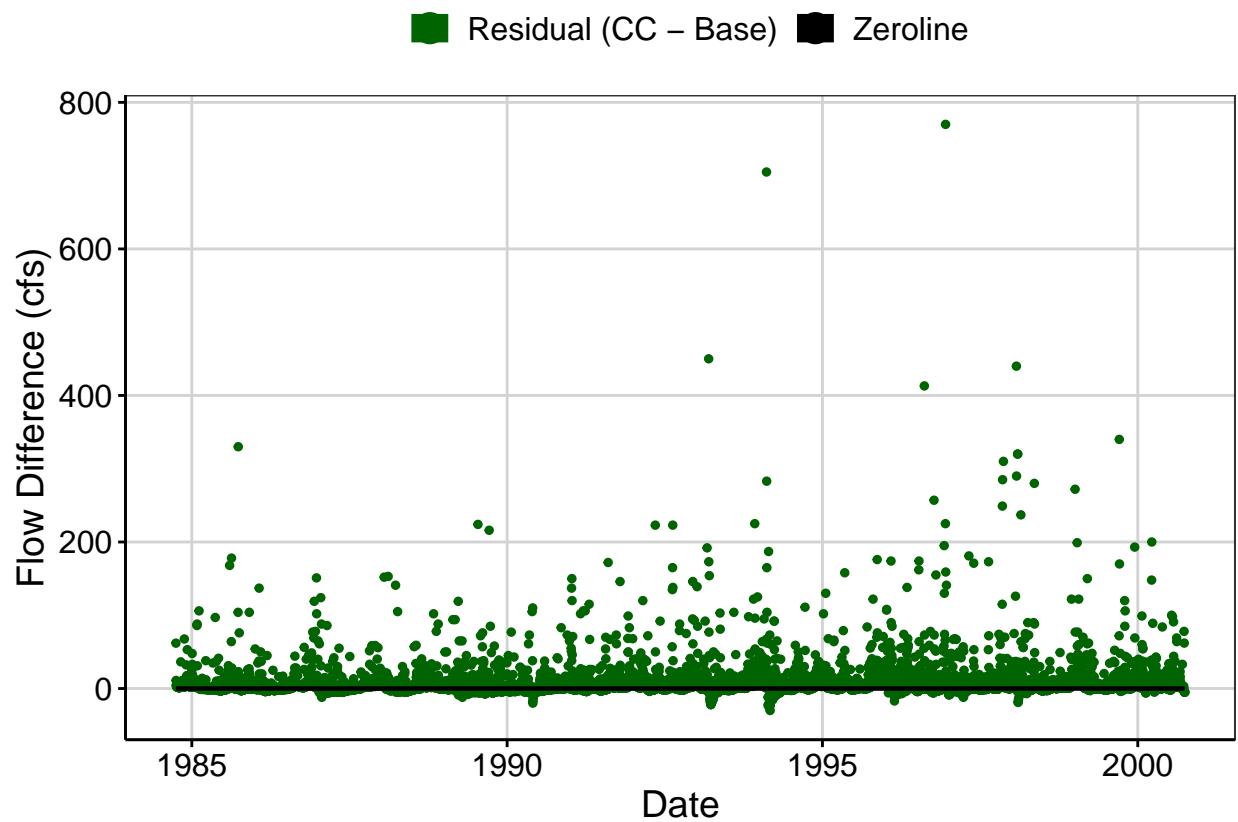


Fig. 9B: Area Weighted Residuals Plot

