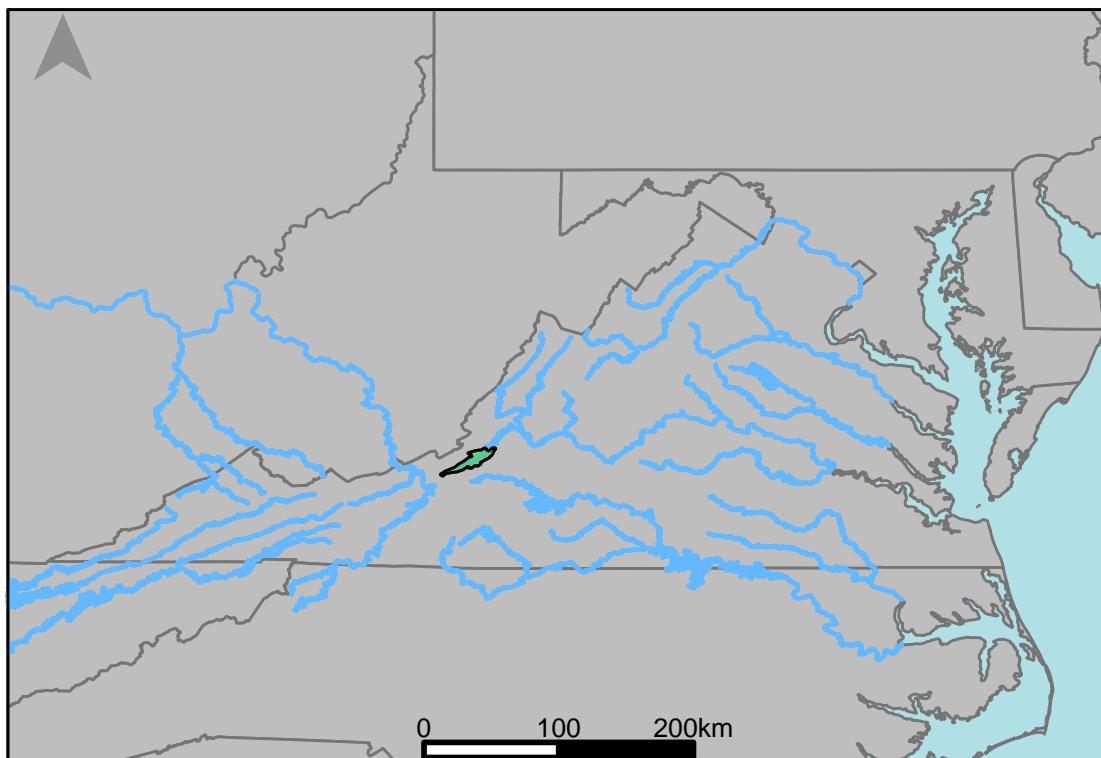


River Segment: JU1_7690_7490 - Scenario :
CFBASE30Y20180615 : Bay Model vs. VAHydro



The average daily discharge change between scenario 1 and scenario 2 for the 20 year timespan was -2.32558%, with 0% of its rolling three month time spans above 20% difference.

Table 1: Monthly Low Flows

	Bay Model	VAHydro	Pct. Difference
Jan. Low Flow	13.8	10.2	-26.09
Feb. Low Flow	33.9	33.3	-1.77
Mar. Low Flow	66.4	66.4	0
Apr. Low Flow	86.9	81.2	-6.56
May Low Flow	89.8	83.5	-7.02
Jun. Low Flow	104	98.7	-5.1
Jul. Low Flow	80.6	77.6	-3.72
Aug. Low Flow	55	52.4	-4.73
Sep. Low Flow	11.4	7.15	-37.28
Oct. Low Flow	3.14	2.77	-11.78
Nov. Low Flow	2.3	2.01	-12.61
Dec. Low Flow	2.06	1.45	-29.61

Table 2: Monthly Average Flows

	Bay Model	VAHydro	Pct. Difference
Overall Mean Flow	129	126	-2.33
Jan. Mean Flow	184	179	-2.72
Feb. Mean Flow	191	183	-4.19
Mar. Mean Flow	230	225	-2.17
Apr. Mean Flow	190	185	-2.63
May Mean Flow	143	140	-2.1
Jun. Mean Flow	107	106	-0.93
Jul. Mean Flow	53.7	53.8	0.19
Aug. Mean Flow	41.4	39.9	-3.62
Sep. Mean Flow	81.4	80.4	-1.23
Oct. Mean Flow	67.6	67.8	0.3
Nov. Mean Flow	112	112	0
Dec. Mean Flow	146	145	-0.68

Table 3: Monthly High Flows

	Bay Model	VAHydro	Pct. Difference
Jan. High Flow	85.3	89.7	5.16
Feb. High Flow	201	218	8.46
Mar. High Flow	344	375	9.01
Apr. High Flow	582	592	1.72
May High Flow	414	403	-2.66
Jun. High Flow	570	645	13.16
Jul. High Flow	402	417	3.73
Aug. High Flow	298	312	4.7
Sep. High Flow	114	116	1.75
Oct. High Flow	77.1	94.2	22.18
Nov. High Flow	65.6	70.5	7.47
Dec. High Flow	77.2	85.8	11.14

Table 4: Period Low Flows

	Bay Model	VAHydro	Pct. Difference
Min. 1 Day Min	0	0	-100
Med. 1 Day Min	0.88	0.84	-5.22
Min. 3 Day Min	0	0	-100
Med. 3 Day Min	0.99	0.93	-5.85
Min. 7 Day Min	0	0	-100
Med. 7 Day Min	1.48	1.3	-12.16
Min. 30 Day Min	0.04	0	-100
Med. 30 Day Min	7.14	7.05	-1.26
Min. 90 Day Min	8.7	0	-100
Med. 90 Day Min	22.2	21.1	-4.95
7Q10	0.04	0	-96.55
Year of 90-Day Min. Flow	1999	2014	0.75
Drought Year Mean	73.3	18.6	-74.62
Mean Baseflow	67.8	63.1	-6.93

Table 5: Period High Flows

	Bay Model	VAHydro	Pct. Difference
Max. 1 Day Max	7080	6230	-12.01
Med. 1 Day Max	1550	1690	9.03
Max. 3 Day Max	3110	3000	-3.54
Med. 3 Day Max	998	996	-0.2
Max. 7 Day Max	1390	1330	-4.32
Med. 7 Day Max	676	674	-0.3
Max. 30 Day Max	720	718	-0.28
Med. 30 Day Max	310	310	0
Max. 90 Day Max	478	480	0.42
Med. 90 Day Max	225	222	-1.33

Table 6: Non-Exceedance Flows

	Bay Model	VAHydro	Pct. Difference
1% Non-Exceedance	0.19	0	-100
5% Non-Exceedance	2.72	1.06	-61.03
50% Non-Exceedance	83	78.8	-5.06
95% Non-Exceedance	392	395	0.77
99% Non-Exceedance	960	1050	9.38
Sept. 10% Non-Exceedance	1.23	0.67	-45.37

Fig. 1: Hydrograph

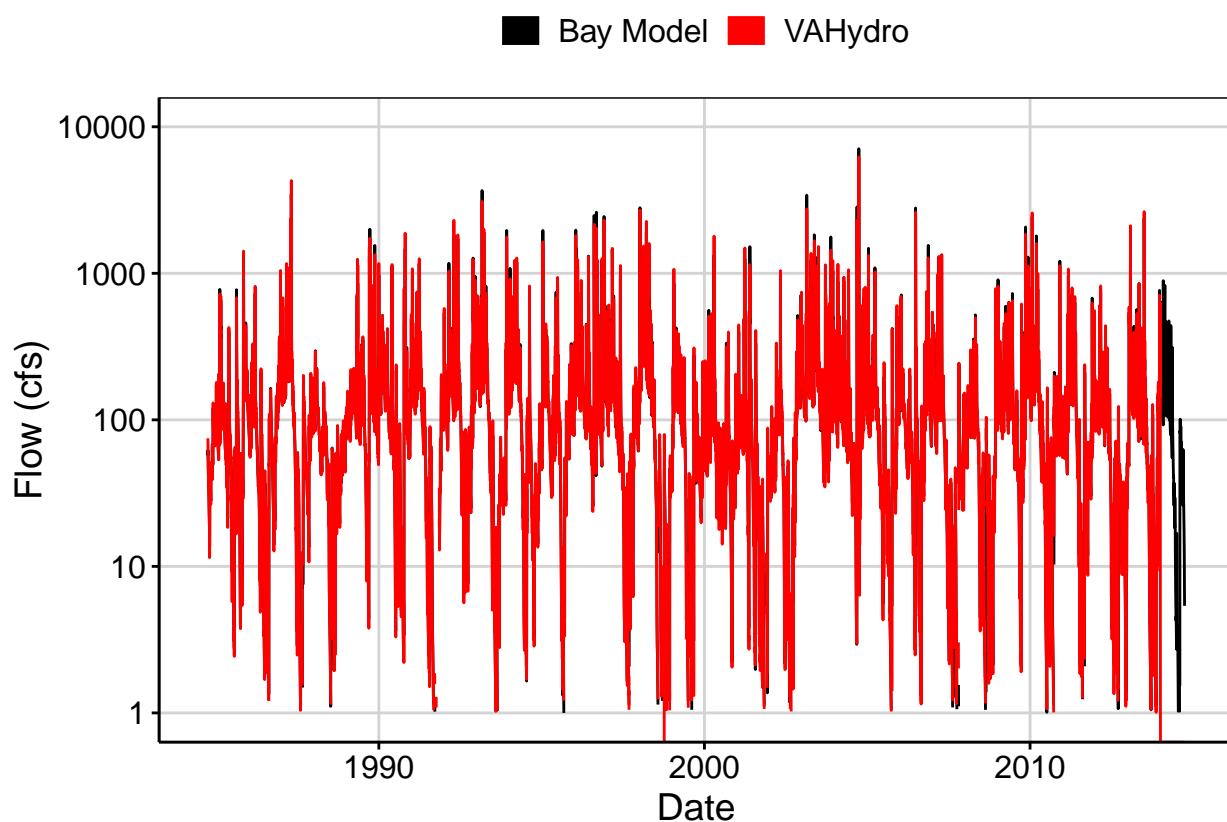


Fig. 2: Zoomed Hydrograph

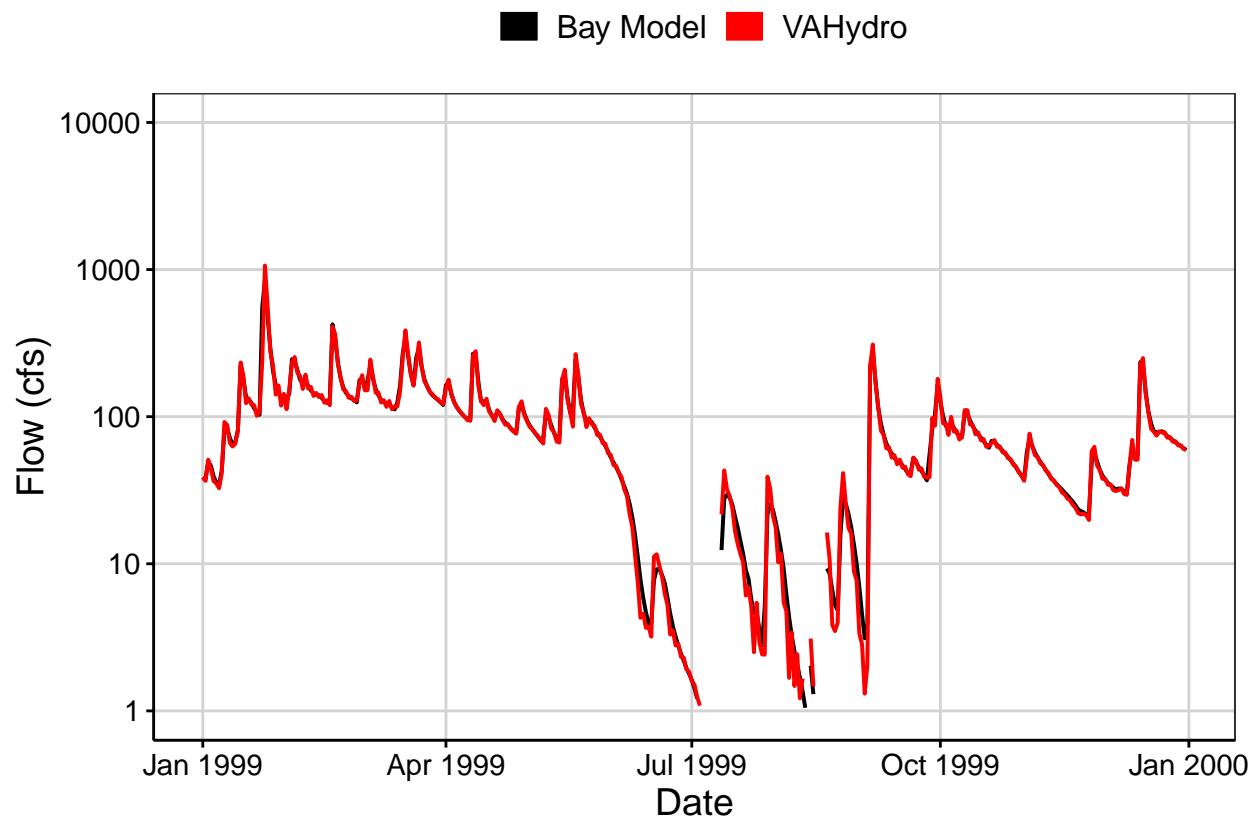


Fig. 3: Flow Exceedance

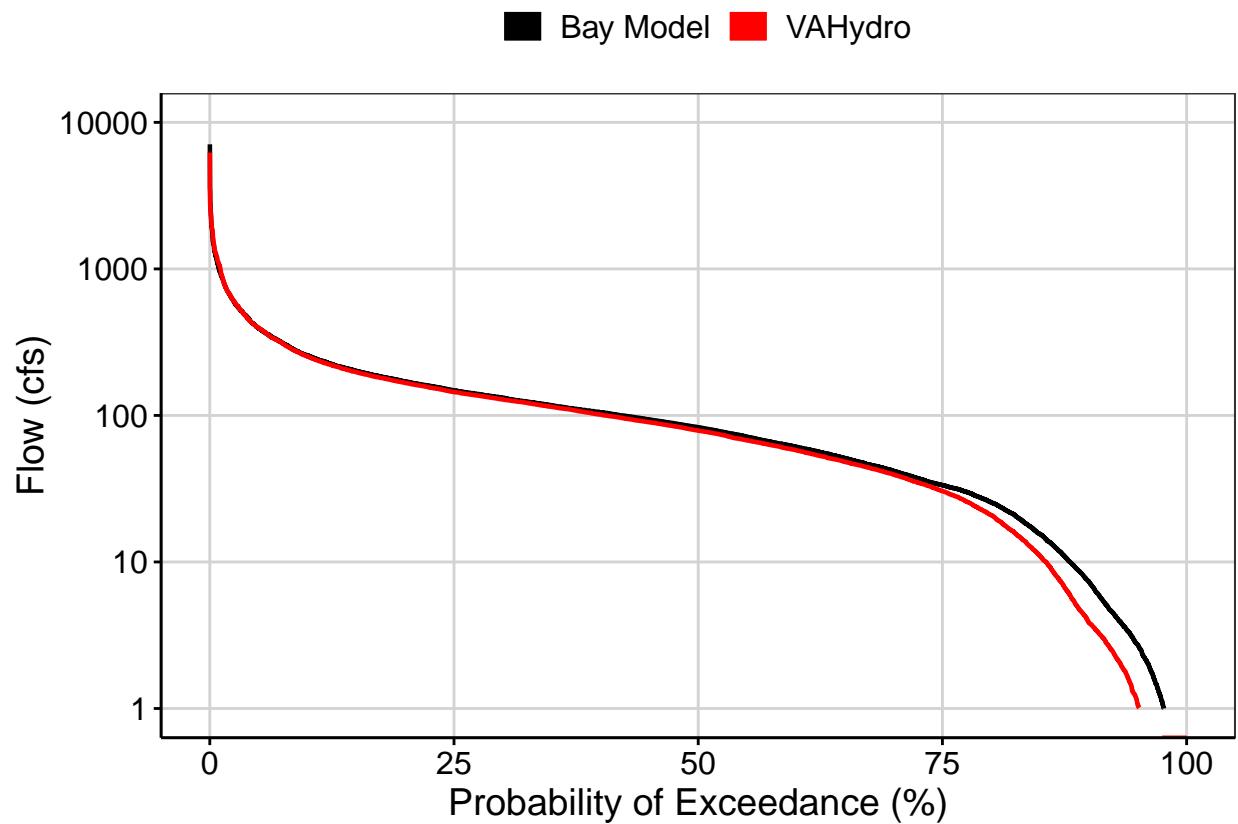


Fig. 4: Baseflow

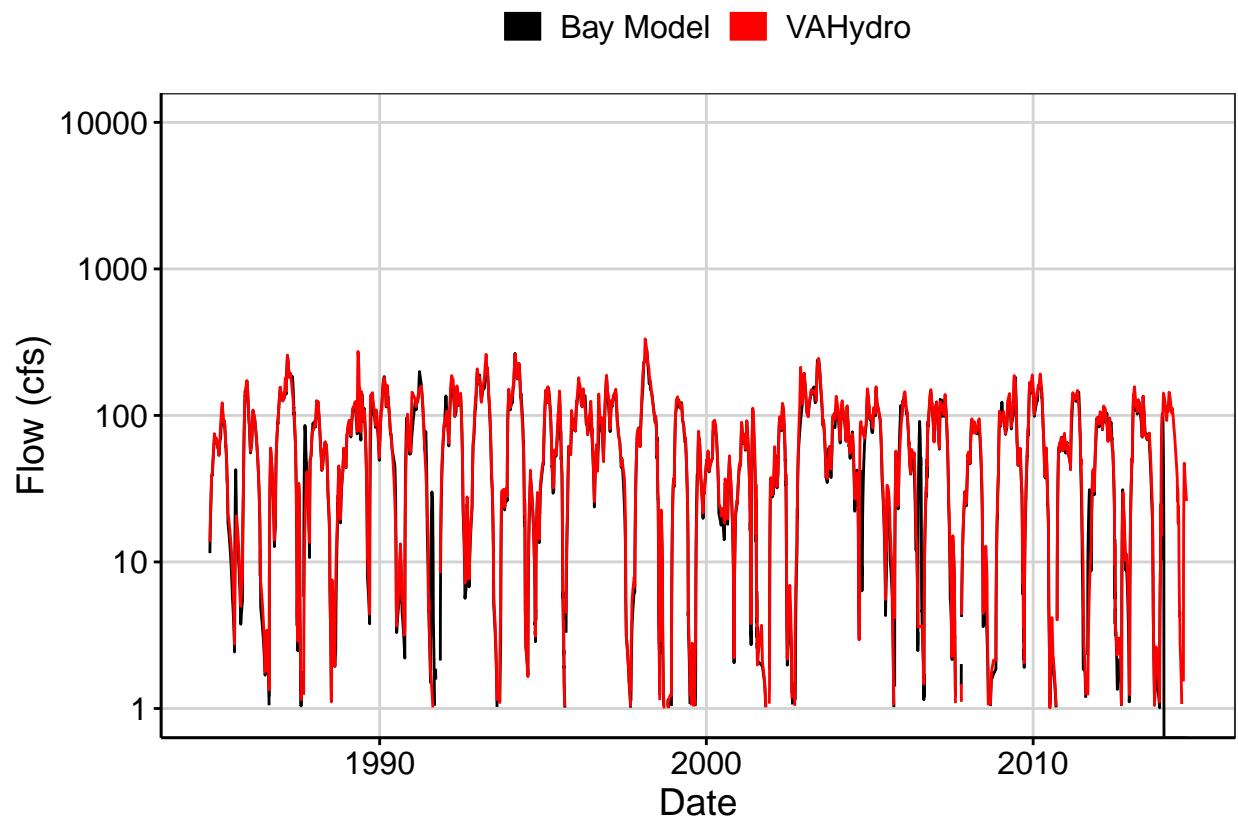


Fig. 5: Combined Baseflow

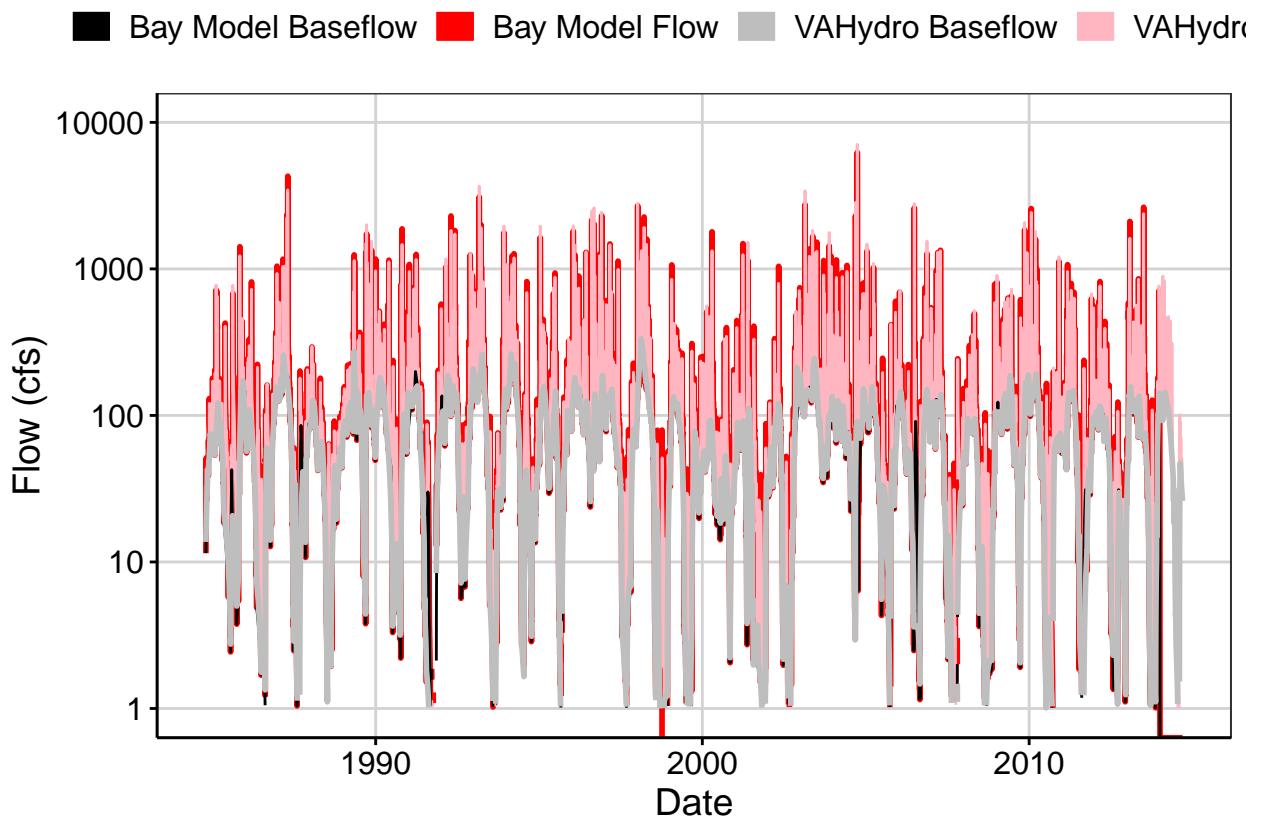


Fig. 6: Largest Difference Segment

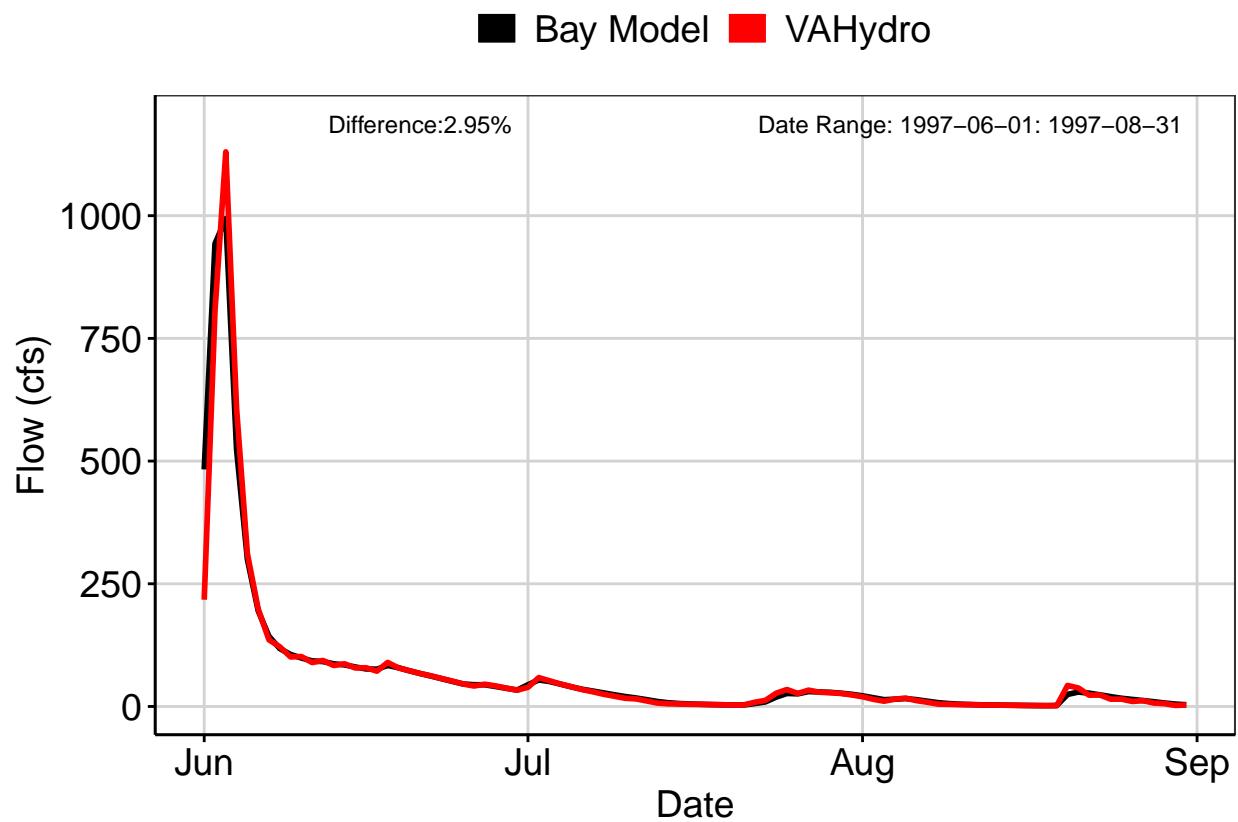


Fig. 7: Second Largest Difference Segment

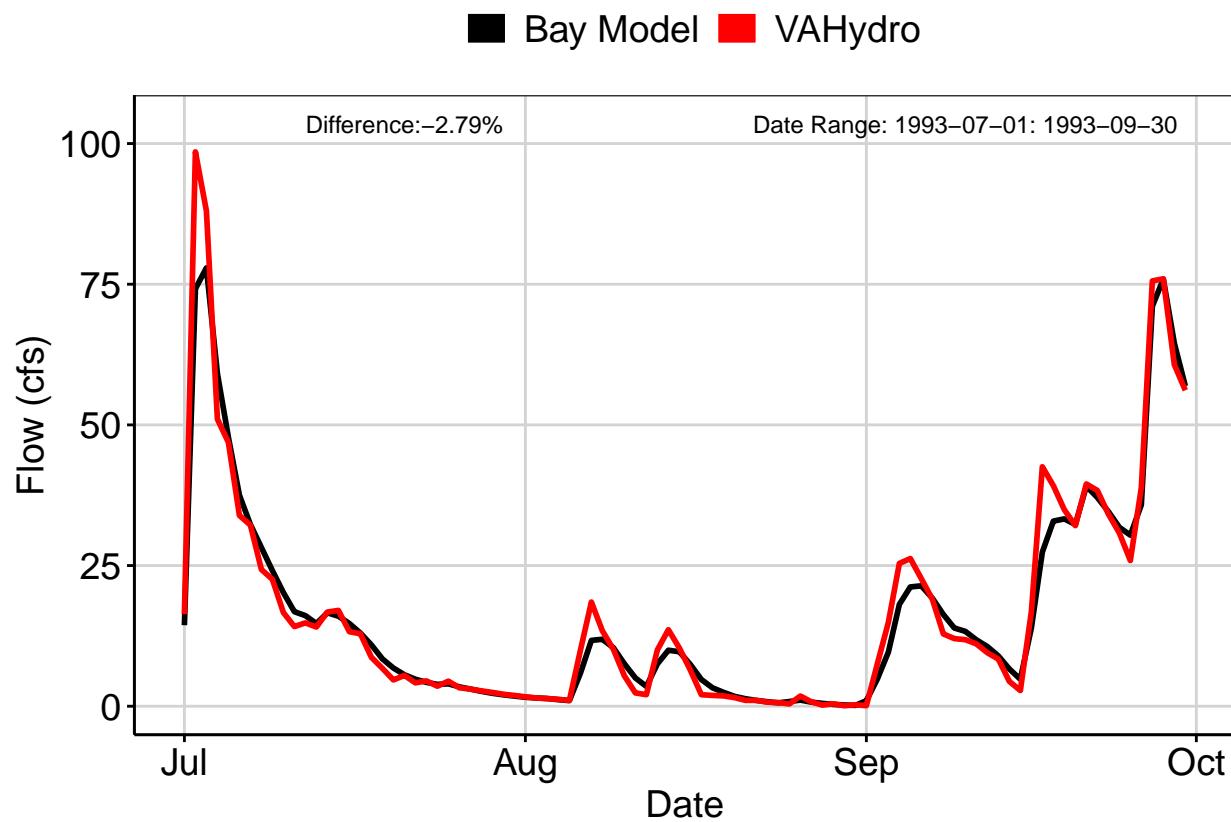


Fig. 8: Third Largest Difference Segment

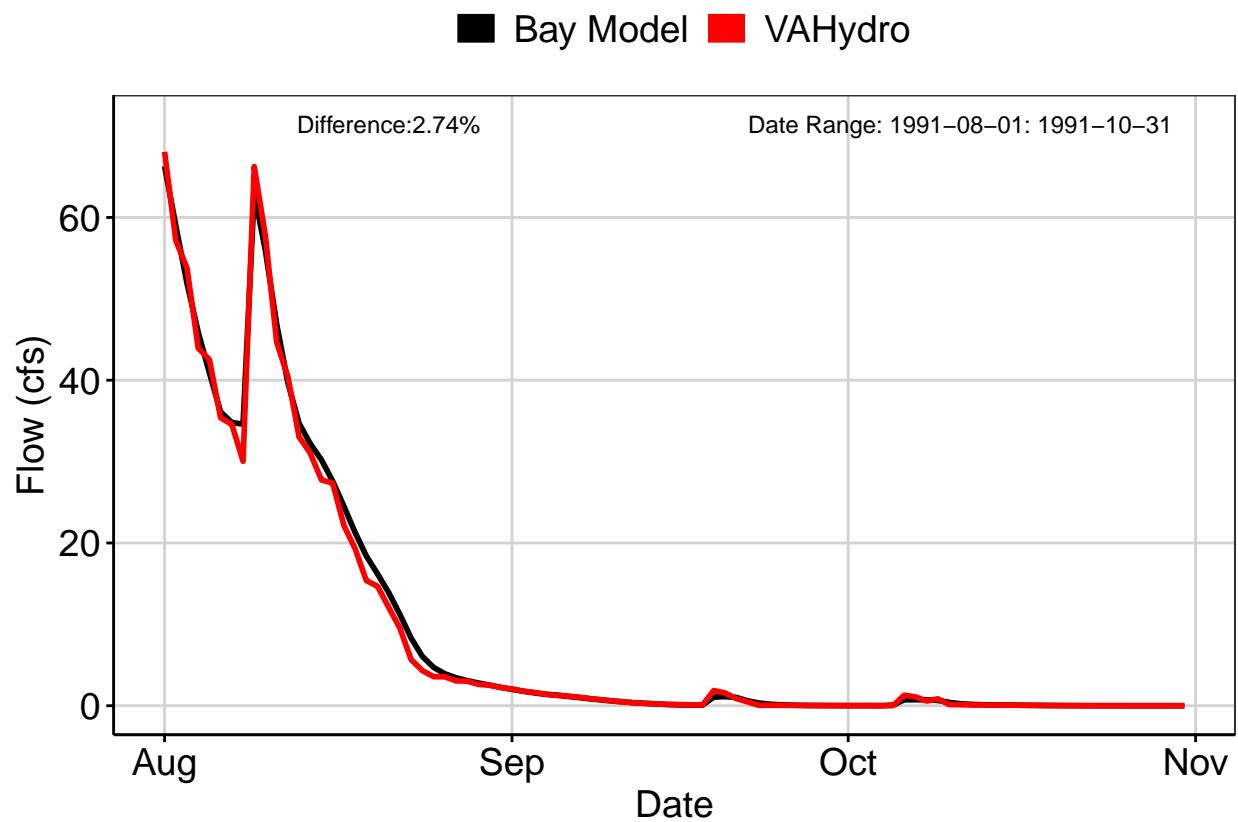


Fig. 9A: Residuals Plot

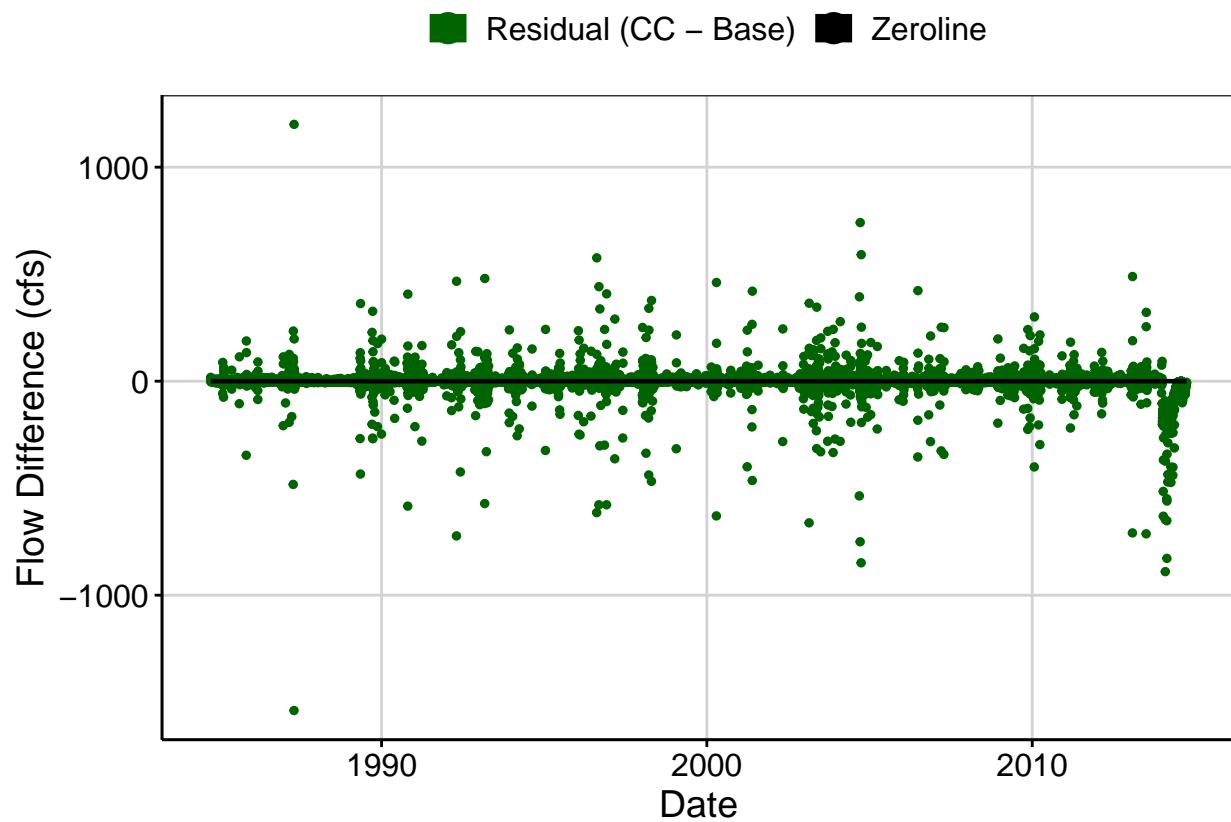


Fig. 9B: Area Weighted Residuals Plot

