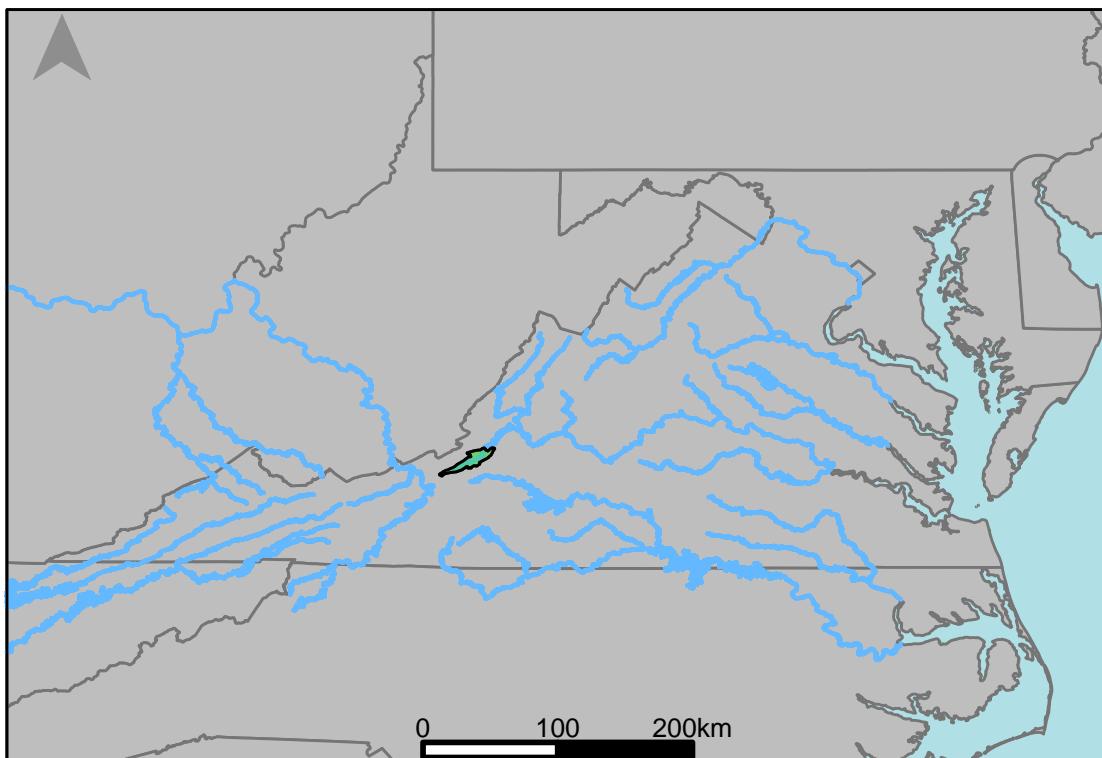


River Segment: JU1_7690_7490 - Scenario :
CFBASE30Y20180615 : Bay Model vs. VAHydro



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	14.5	5.07
Feb. Low Flow	33.9	33.1	-2.36
Mar. Low Flow	66.4	67.9	2.26
Apr. Low Flow	86.9	86.7	-0.23
May Low Flow	89.8	86.3	-3.9
Jun. Low Flow	104	105	0.96
Jul. Low Flow	80.6	83	2.98
Aug. Low Flow	55	57.7	4.91
Sep. Low Flow	11.4	13.2	15.79
Oct. Low Flow	3.14	3.5	11.46
Nov. Low Flow	2.3	2.87	24.78
Dec. Low Flow	2.06	2.3	11.65

Table 2: Monthly Average Flows

	Bay Model	VAHydro	Pct. Difference
Overall Mean Flow	129	126	-2.33
Jan. Mean Flow	184	177	-3.8
Feb. Mean Flow	191	183	-4.19
Mar. Mean Flow	230	223	-3.04
Apr. Mean Flow	190	187	-1.58
May Mean Flow	143	140	-2.1
Jun. Mean Flow	107	108	0.93
Jul. Mean Flow	53.7	54.5	1.49
Aug. Mean Flow	41.4	40.6	-1.93
Sep. Mean Flow	81.4	78.9	-3.07
Oct. Mean Flow	67.6	68.2	0.89
Nov. Mean Flow	112	110	-1.79
Dec. Mean Flow	146	145	-0.68

Table 3: Monthly High Flows

	Bay Model	VAHydro	Pct. Difference
Jan. High Flow	85.3	87.2	2.23
Feb. High Flow	201	185	-7.96
Mar. High Flow	344	324	-5.81
Apr. High Flow	582	477	-18.04
May High Flow	414	348	-15.94
Jun. High Flow	570	515	-9.65
Jul. High Flow	402	418	3.98
Aug. High Flow	298	250	-16.11
Sep. High Flow	114	118	3.51
Oct. High Flow	77.1	73.8	-4.28
Nov. High Flow	65.6	62.7	-4.42
Dec. High Flow	77.2	74.9	-2.98

Table 4: Period Low Flows

	Bay Model	VAHydro	Pct. Difference
Min. 1 Day Min	0	0	-94.78
Med. 1 Day Min	0.88	1.18	33.94
Min. 3 Day Min	0	0	-94.9
Med. 3 Day Min	0.99	1.34	35.08
Min. 7 Day Min	0	0	-95.57
Med. 7 Day Min	1.48	1.82	22.97
Min. 30 Day Min	0.04	0	-99.96
Med. 30 Day Min	7.14	7.44	4.2
Min. 90 Day Min	8.7	0	-100
Med. 90 Day Min	22.2	21.6	-2.7
7Q10	0.04	0.08	86.86
Year of 90-Day Min. Flow	1999	2014	0.75
Drought Year Mean	73.3	18.6	-74.62
Mean Baseflow	67.8	67.3	-0.74

Table 5: Period High Flows

	Bay Model	VAHydro	Pct. Difference
Max. 1 Day Max	7080	4280	-39.55
Med. 1 Day Max	1550	1300	-16.13
Max. 3 Day Max	3110	2880	-7.4
Med. 3 Day Max	998	945	-5.31
Max. 7 Day Max	1390	1290	-7.19
Med. 7 Day Max	676	664	-1.78
Max. 30 Day Max	720	715	-0.69
Med. 30 Day Max	310	309	-0.32
Max. 90 Day Max	478	479	0.21
Med. 90 Day Max	225	222	-1.33

Table 6: Non-Exceedance Flows

	Bay Model	VAHydro	Pct. Difference
1% Non-Exceedance	0.19	0	-99.97
5% Non-Exceedance	2.72	1.6	-41.18
50% Non-Exceedance	83	81.1	-2.29
95% Non-Exceedance	392	391	-0.26
99% Non-Exceedance	960	934	-2.71
Sept. 10% Non-Exceedance	1.23	1.02	-17.07

Fig. 1: Hydrograph

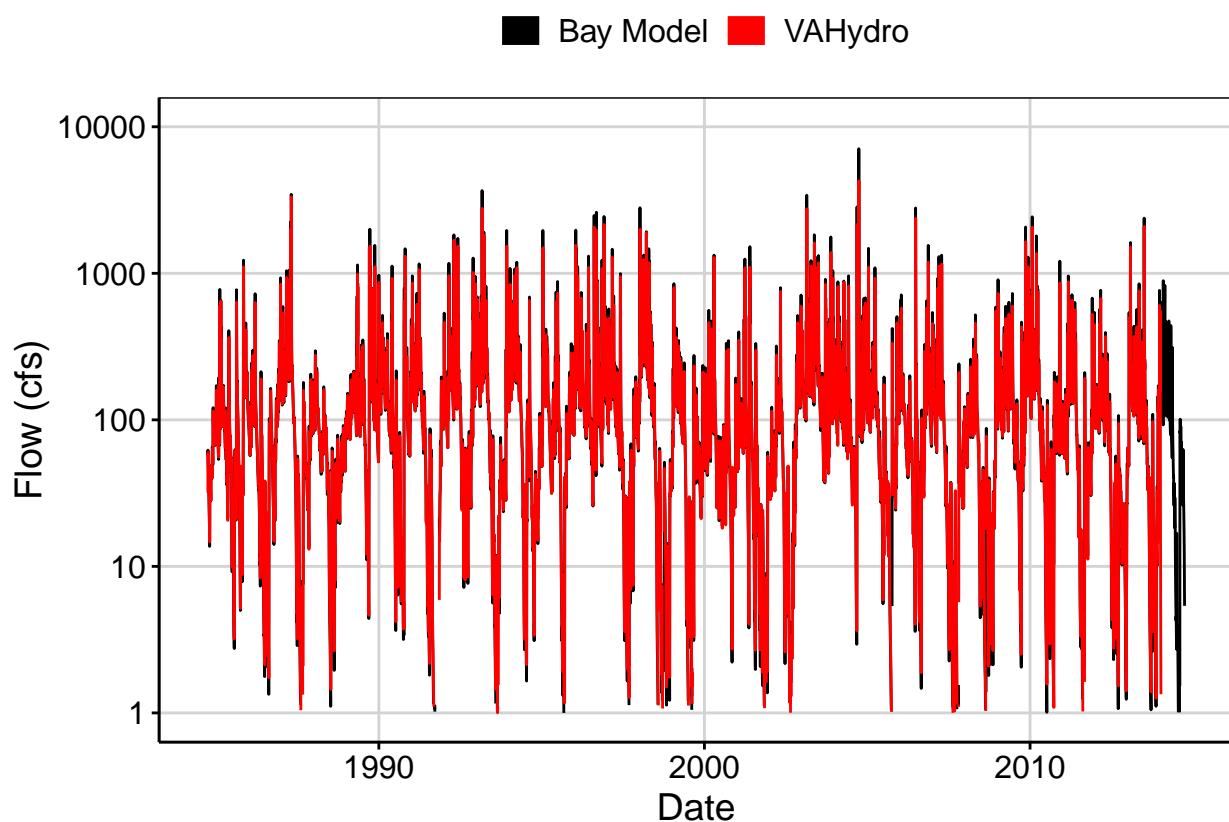


Fig. 2: Zoomed Hydrograph

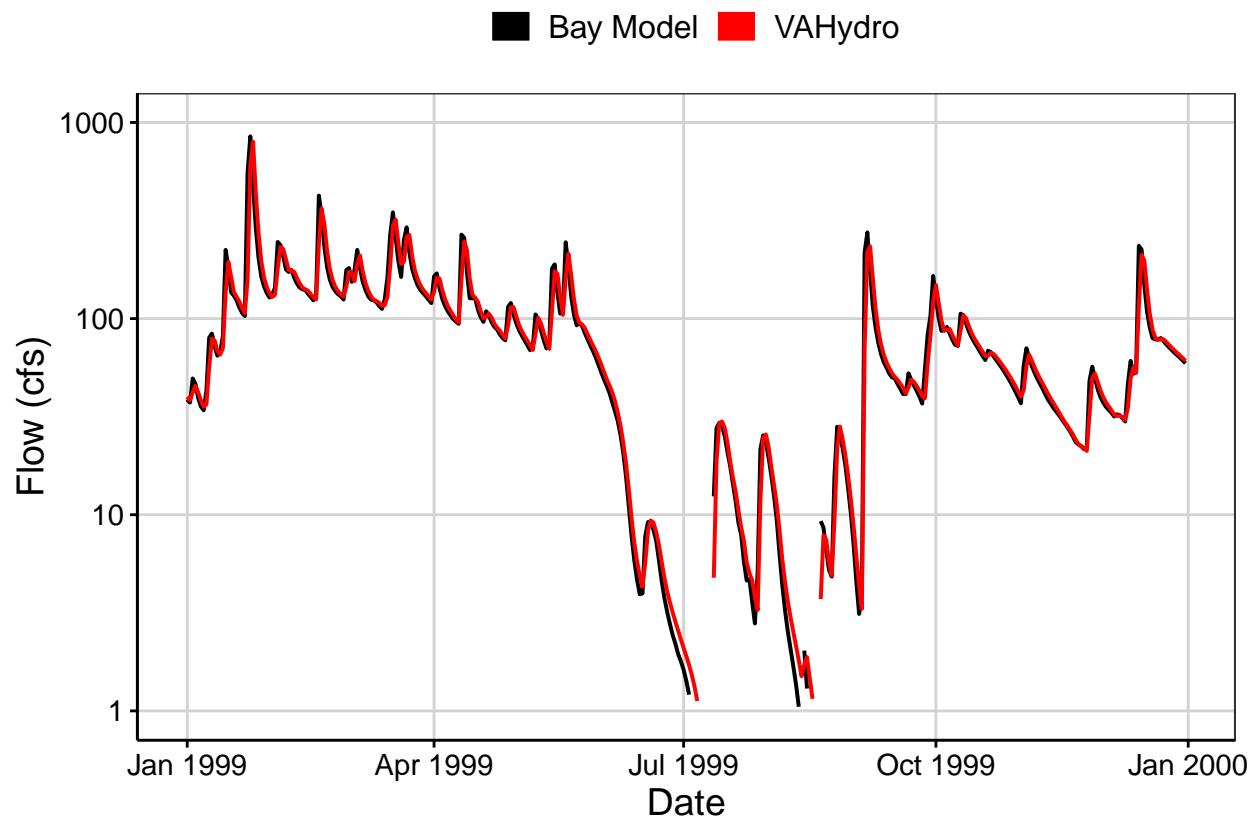


Fig. 3: Flow Exceedance

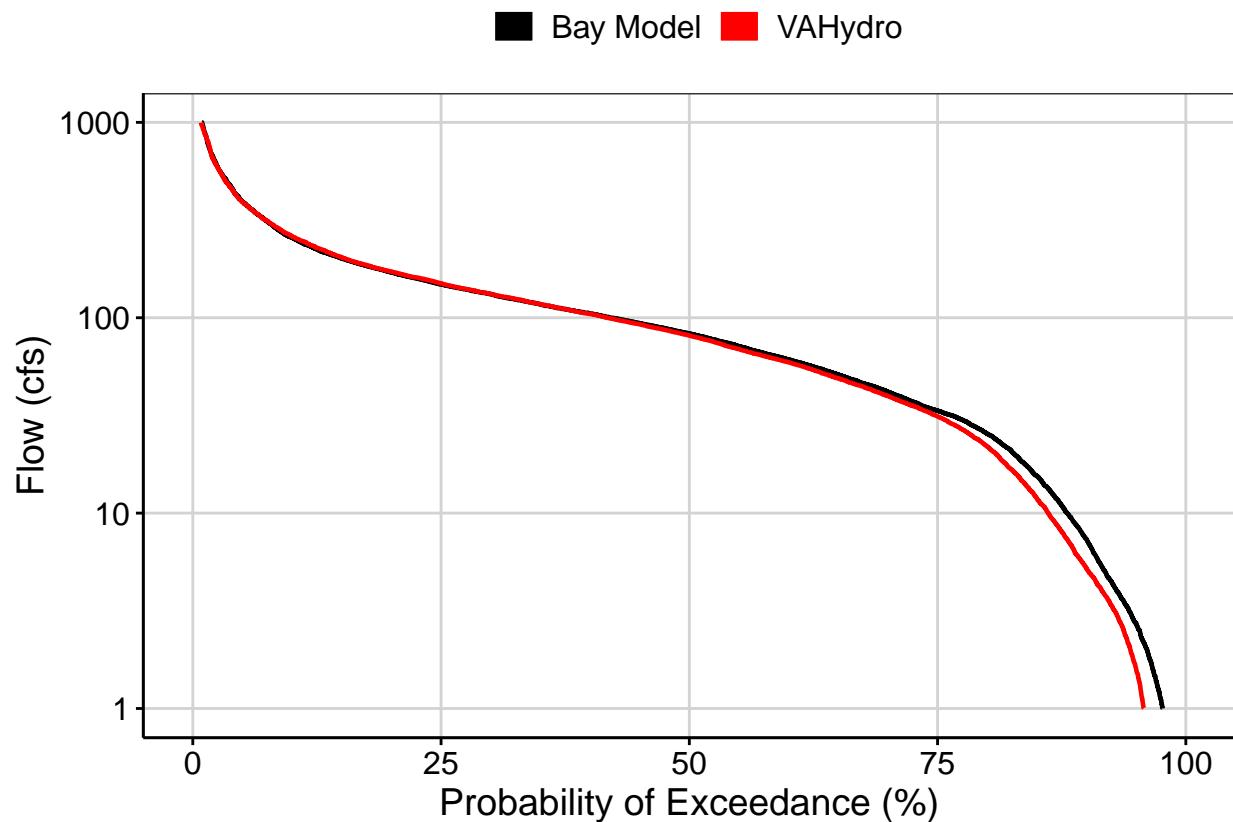


Fig. 4: Baseflow

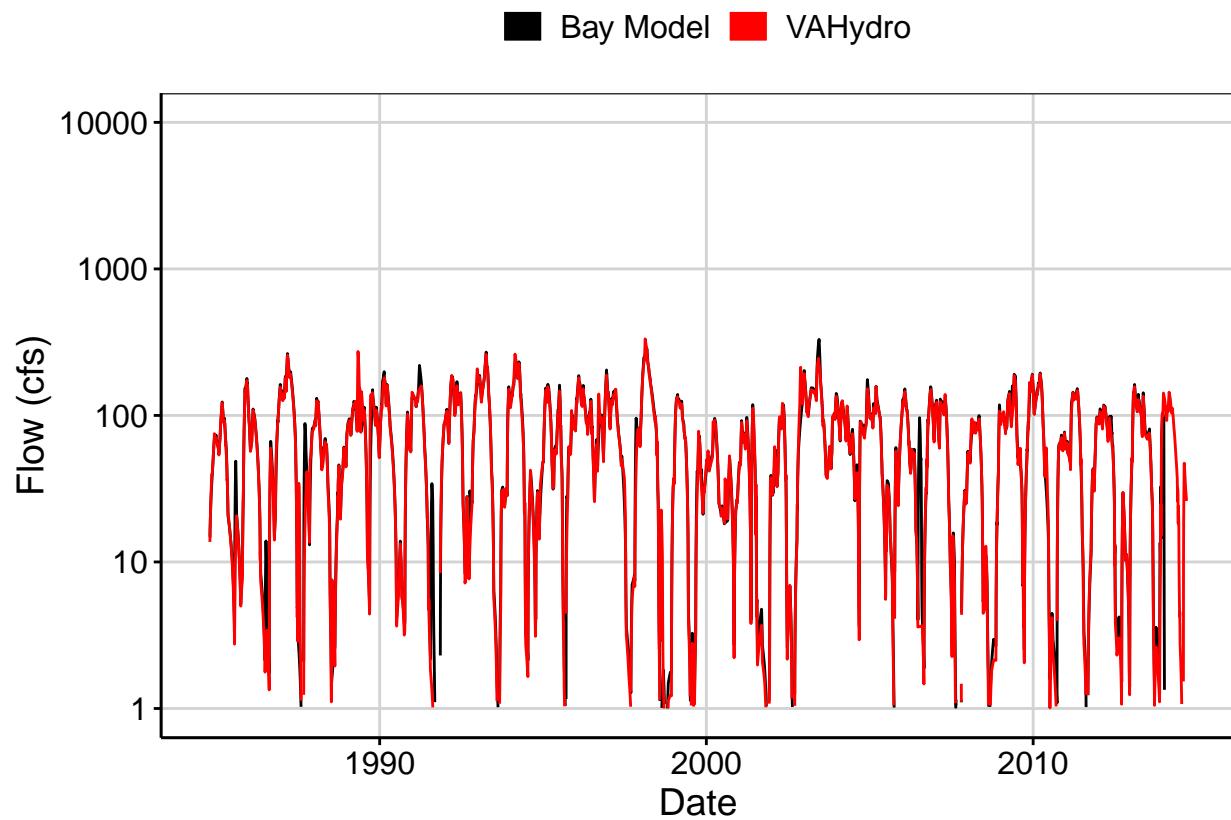


Fig. 5: Combined Baseflow

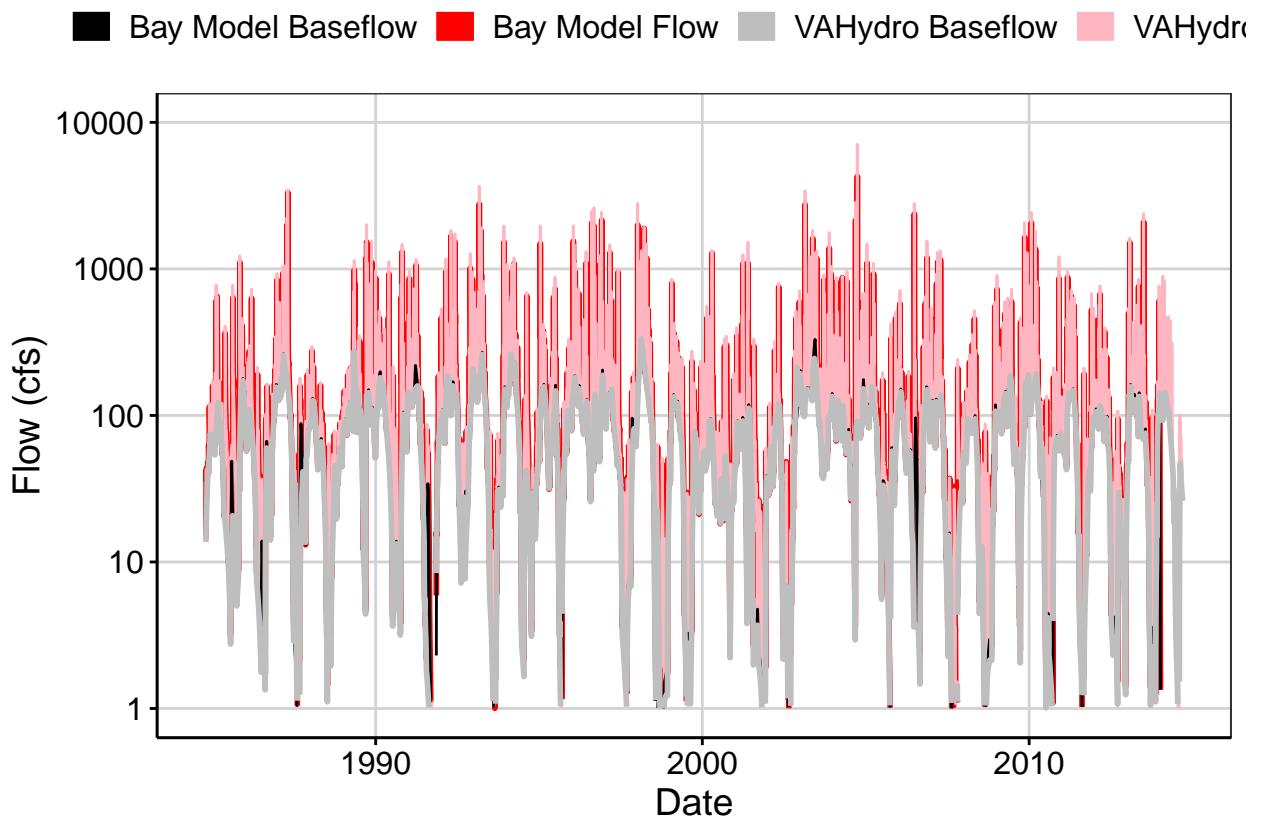


Fig. 6: Largest Difference Segment

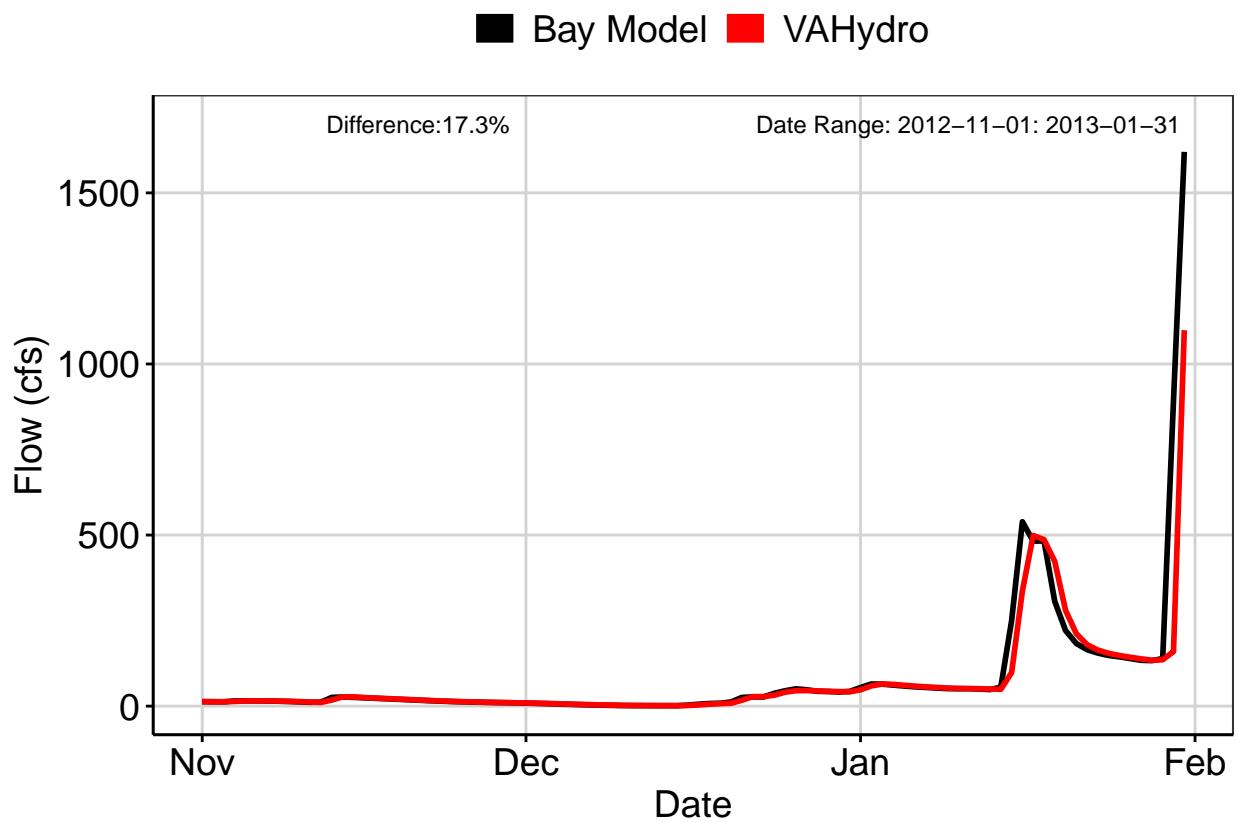


Fig. 7: Second Largest Difference Segment

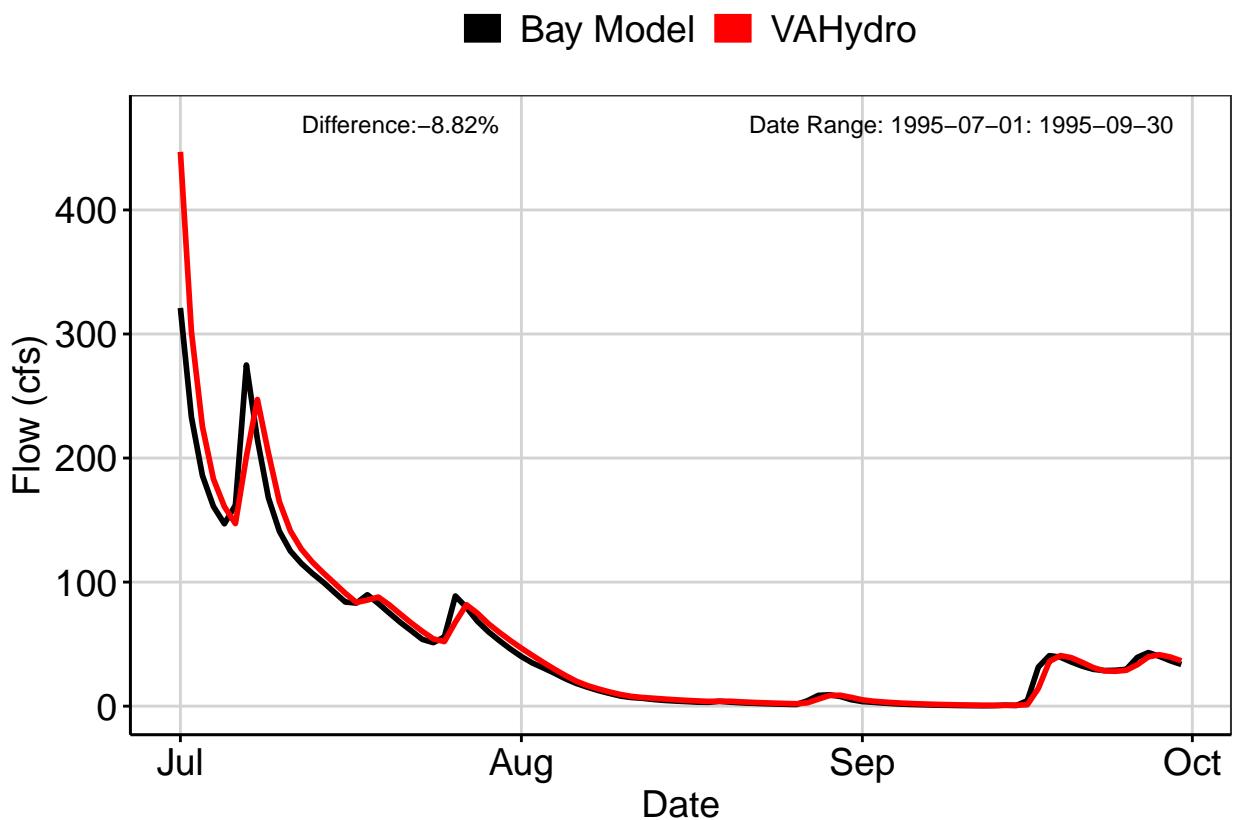


Fig. 8: Third Largest Difference Segment

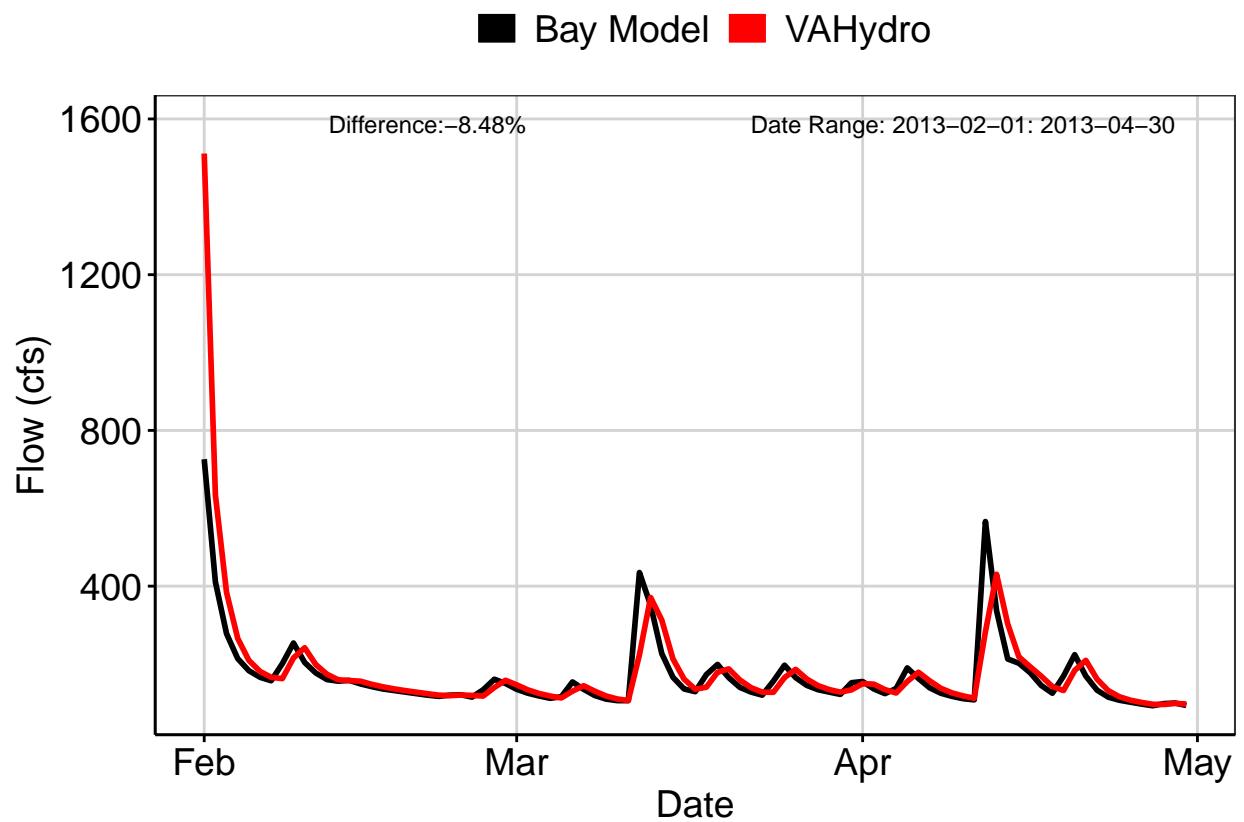


Fig. 9A: Residuals Plot

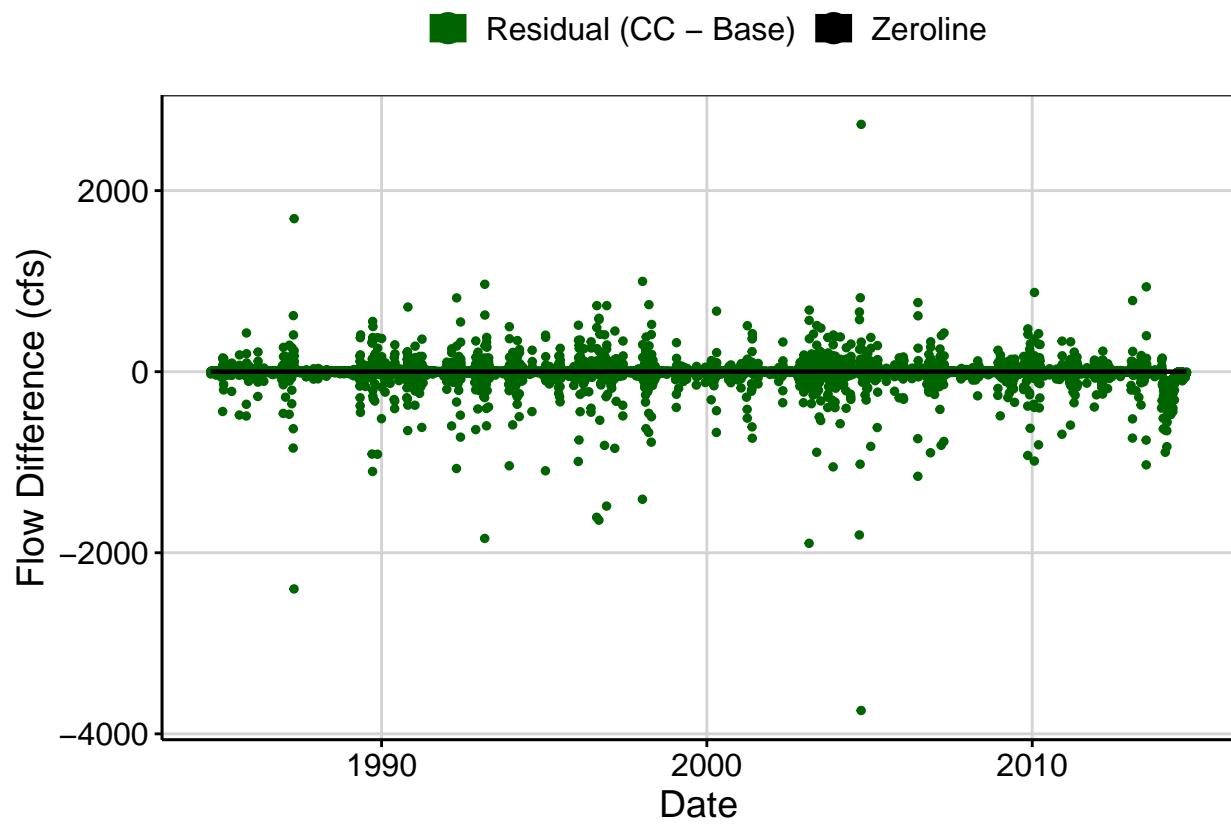


Fig. 9B: Area Weighted Residuals Plot

