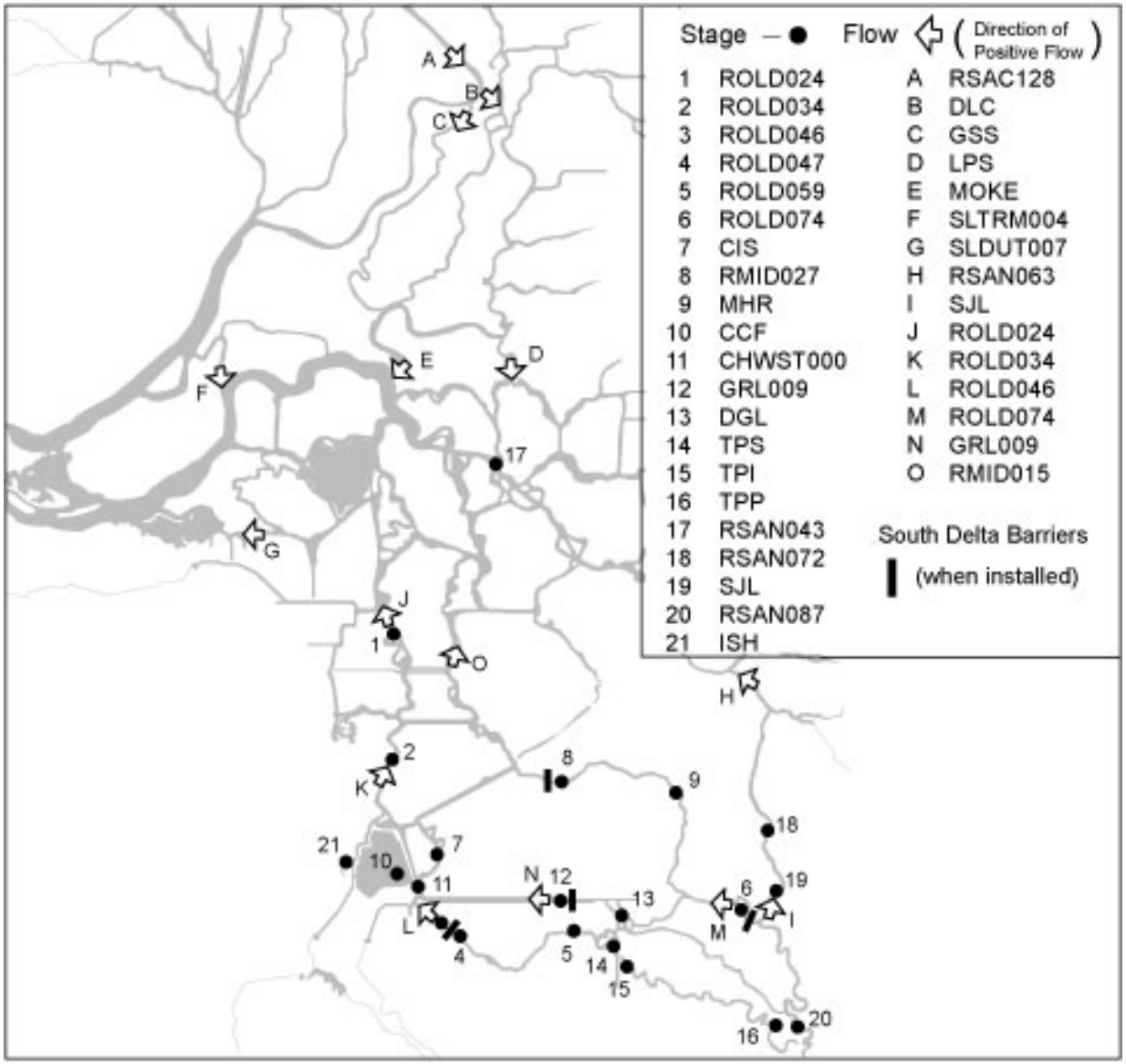
South Delta Temporary Barriers Monitoring Report

Changes to South Delta Hydrodynamics
Due to the Installation of Temporary Barriers

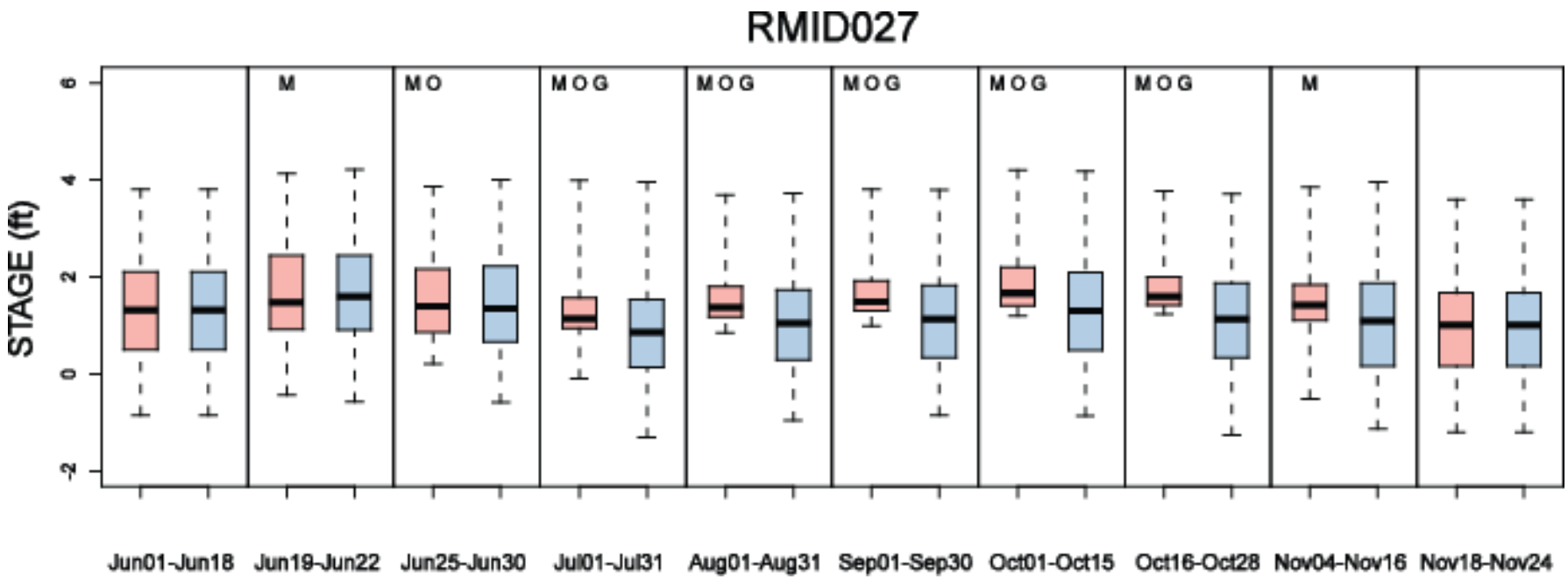
Provide a Validation of DSM2 Hydrodynamics for the Given Year of Study



Partition Year into Periods of Similar Inflows/Exports and Constant Barrier Configuration

Period in 2009		Period Average Flows				Period Barrier Status			
		Sac R. + Yolo Bypass (cfs)	SJR (cfs)	DMC Pumping (cfs)	SWP Pumping (cfs)	MR	OR	GLC	ORH
JAN	1 - 31	9,183	1,148	2,115	2,436	--	--	--	--
FEB	1 - 11	9,051	1,238	999	1,032	--	--	--	--
	12 - 21	11,271	1,468	1,636	1,978	--	--	--	--
	22 - 28	35,874	1,733	2,798	2,940	--	--	--	--
MAR	1 - 10	38,007	1,818	2,577	2,682	--	--	--	--
	11 - 24	16,634	1,448	3,482	3,234				
	25 - 31	11,217	1,164	2,125	2,327				
APR	1 - 15	12,039	1,223	2,038	1,739	--	--	--	--
	16 - 30	11,739	1,805	895	1,026				
MAY	1 - 31	15,533	2,197	1,067	1,000	--	--	--	--
JUN	1 - 18	12,490	1,346	972	472	--	--	--	--
	19 - 22	10,064	1,025	1,672	415	IN	--	--	--
	25 - 30	12,632	1,440	1,668	353	IN	IN	--	--
JUL	1 - 31	18,638	725	3,836	6,129	IN	IN	IN	--
AUG	1 - 31	14,834	594	4,113	4,044	IN	IN	IN	--
SEP	1 - 30	11,120	873	4,094	2,538	IN	IN	IN	--
OCT	1 - 15	9,395	1,128	3,977	516	IN	IN	IN	--
	16 - 28	10,254	2,403	3,894	3,507	IN	IN	IN	--
NOV	4 - 16	8,660	1,369	3,456	849	IN	--	--	--
	18 - 24	9,343	1,305	2,278	1,076	--	--	--	--
	25 - 30	9,430	1,294	1,976	3,000	--	--	--	--
DEC	1 - 31	10,648	1,319	2,197	3,352	--	--	--	--

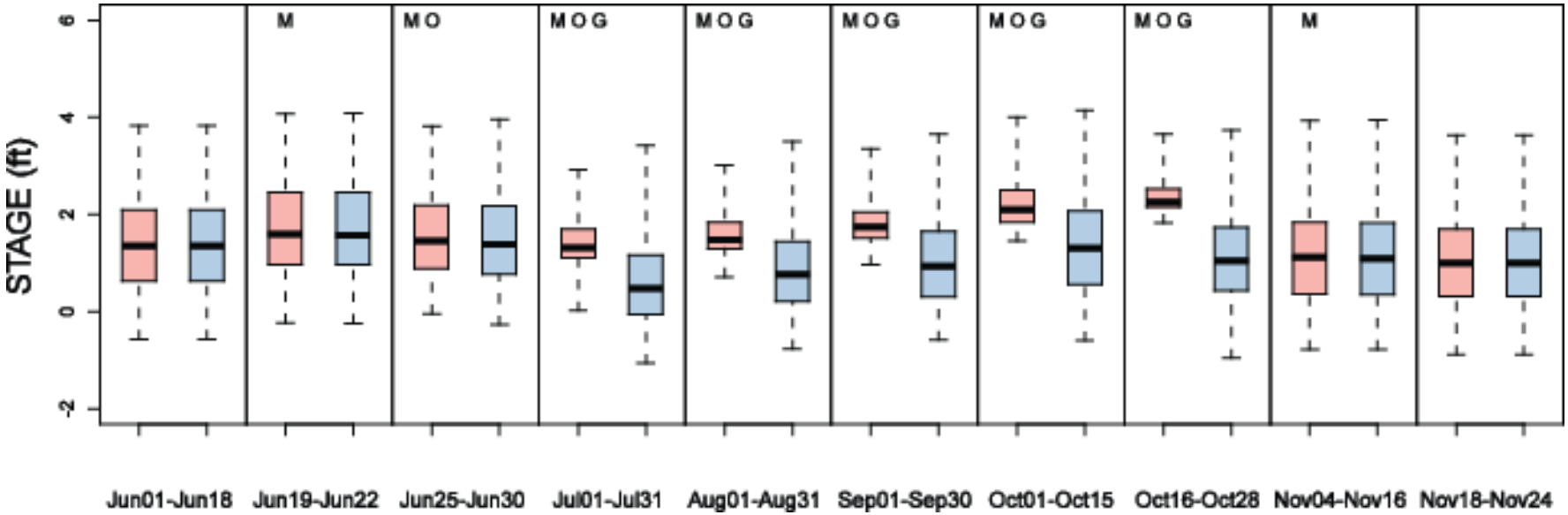
Show Distribution of Stages and Flows By Period for Historical and No-Barriers Conditions



2009

Show Distribution of Stages and Flows By Period for Historical and No-Barriers Conditions

Grant Line Canal Upstream of Barrier Site



2009

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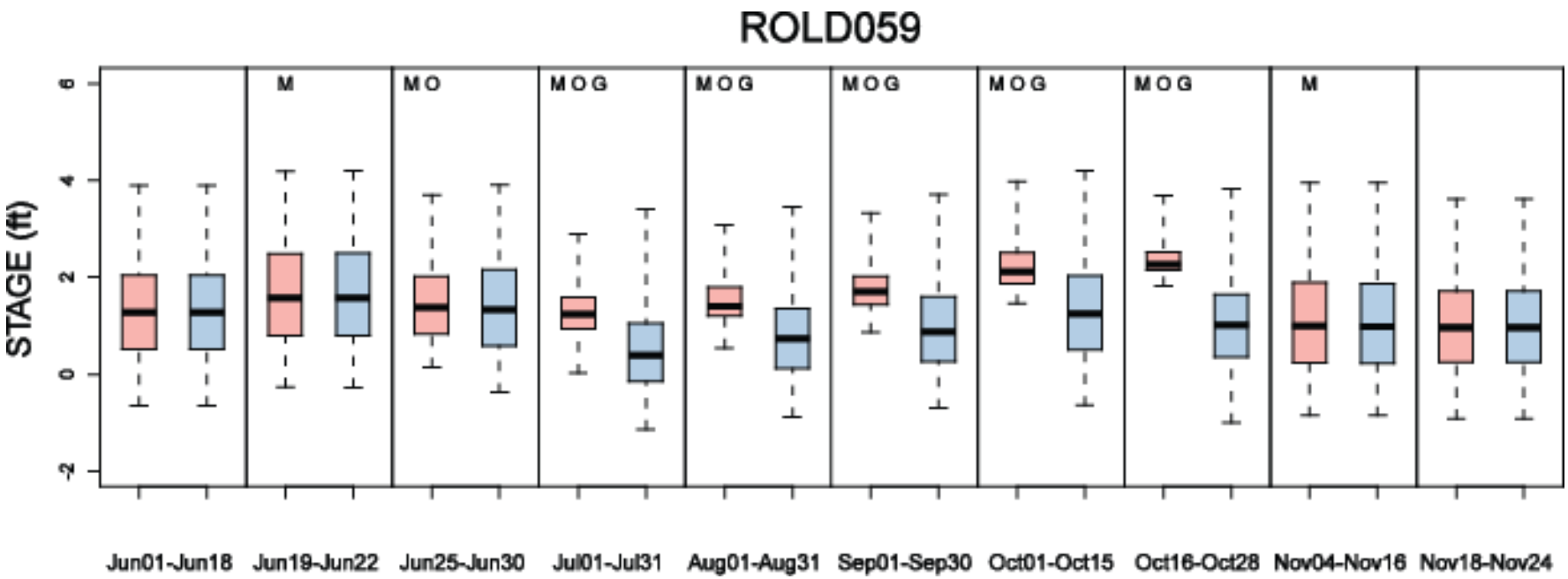
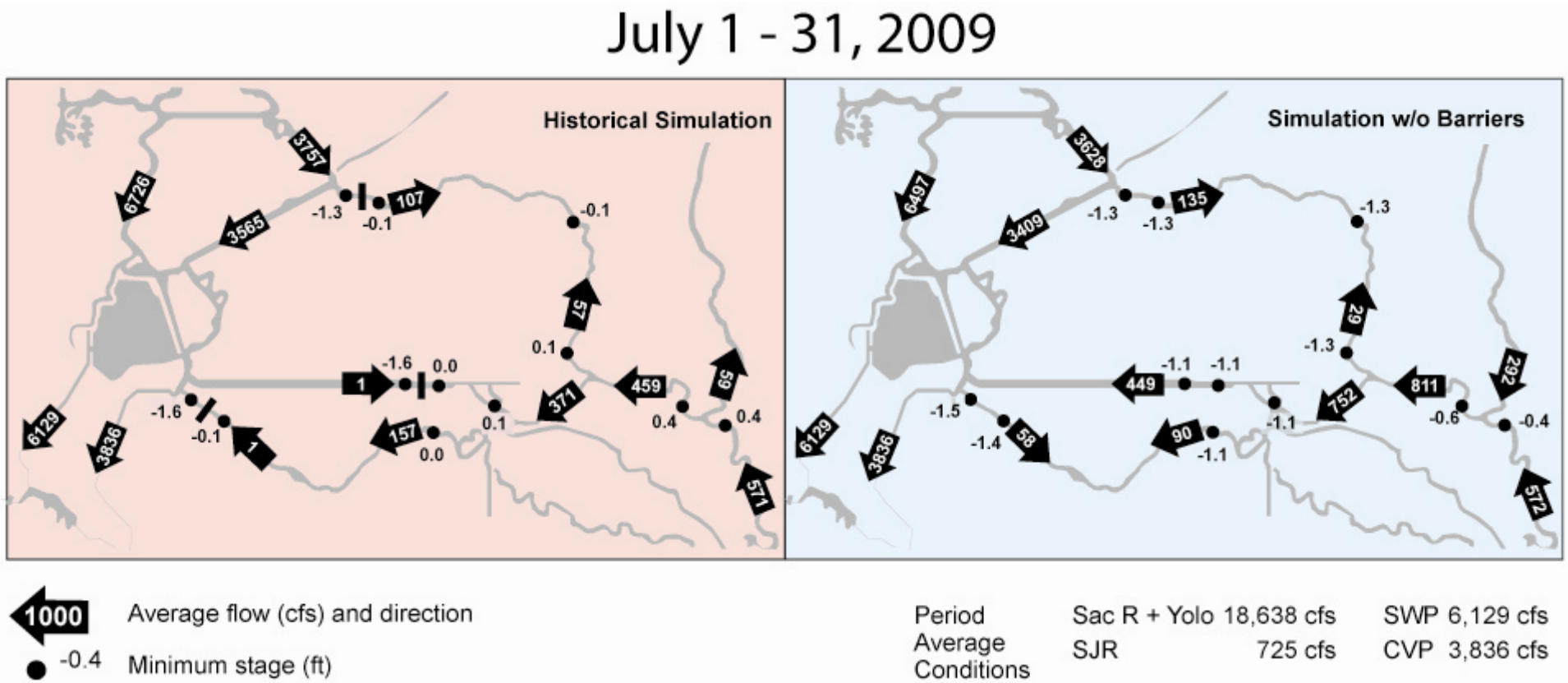


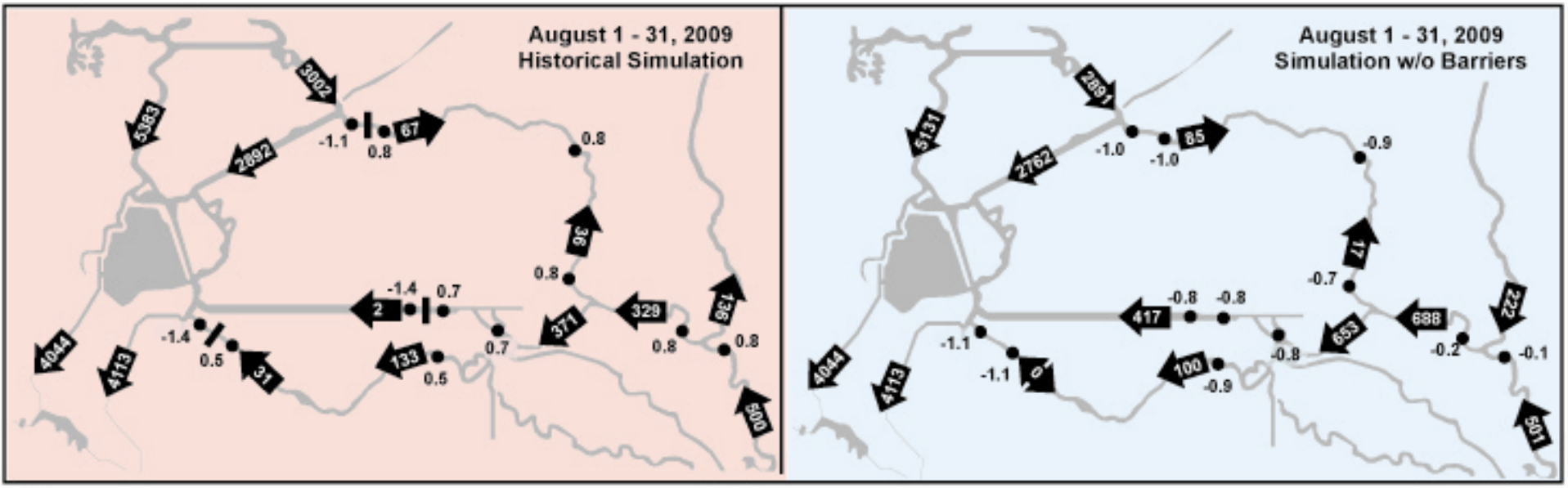
2009

Show Schematic of Average Flows and Minimum Stages in the South Delta For Historical and No-Barriers Conditions



Show Schematic of Average Flows and Minimum Stages in the South Delta For Historical and No-Barriers Conditions

August 1 – 31, 2009



1000 Average flow (cfs) and direction

-0.4 Minimum stage (ft)

Period Average Conditions		
Sac R + Yolo 14,834 cfs	SWP 4,044 cfs
SJR 594 cfs	CVP 4,113 cfs