



Supplemental On-Line Material

Figures S1 and S2 show the location and numbering of stations used by [16,24] (Figure S1) and [23] (Figure S2).

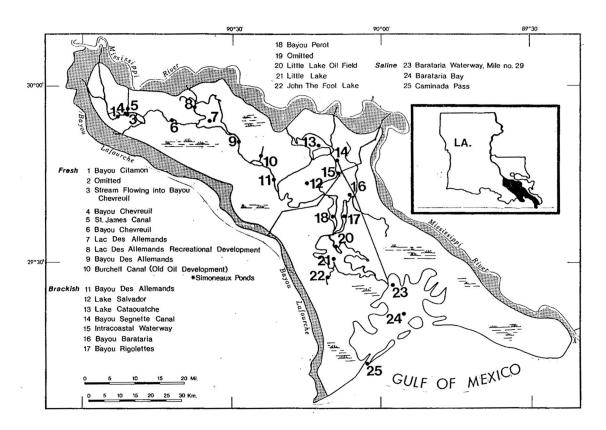


Figure S1. Station locations used by [16,24] for quarterly transects of the Barataria Basin in 1977–1978.

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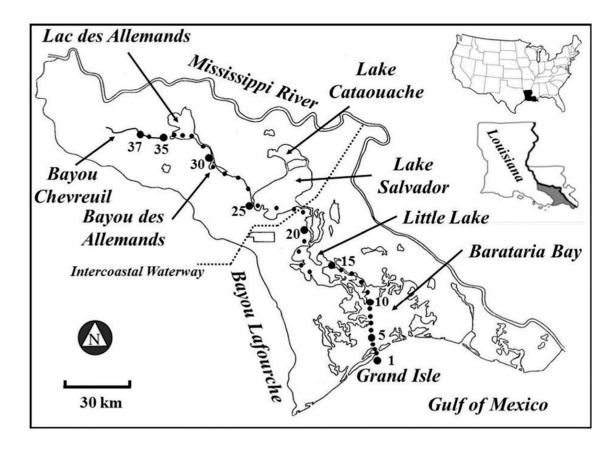


Figure S2. Station locations used by [23] for monthly transection in the Barataria Basin in 1995–2016. Additional stations in eastern Lake Salvador and Lake Cataouatche were added in 2005 to reflect the impact of the Davis Pond Diversion.

Table S1. Station groupings used for comparisons of Seaton and Turner (Pre- and Post-diversion) transects.

Station Location	Seaton Station	Turner Station	Station
Station Location	Numbers	Numbers	Grouping
Bayou Chevreuil	4, 6	35, 36, 37	BC
Lac des Allemands	7	32, 33	LA
Bayou des Allemands N	9	30, 31	BAN
Bayou des Allemands S	11	27, 28	BAS
Lake Salvador	12	23, 24	LS
Lake Cataouatche	13	EM04, EM05	LC
Bayou Perot	18	19, 20	BP
Little Lake	21	16, 17, 18	LL
Barataria Bay N	23	9, 10, 11, 12	BBN
Barataria Bay S	24	5, 6, 7, 8	BBS
Gulf of Mexico	25	2	GOM

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Table S2. ANOVA Results for the interaction effect, pairwise comparisons of the three time periods (Pre-diversion, Post-diversion, Seaton) across the ten stations. Significance is denoted as follows: "***" strongly significant at the Bonferroni protected 0.05; "**" moderately significant at the Bonferroni protected 0.10; "*" weakly significant at unprotected Fisher's least significant difference 0.05; "NS" non-significant.

CHL	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre	***	***	**	**	***	NS	***	NS	NS	NS
Pre-Seaton	*	*	***	NS	***	*	*	NS	**	NS
Post-Seaton	NS	NS	***	NS	***	NS	*	NS	**	NS
SD	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre	***	***	NS	NS	NS	NS	***	***	*	NS
Pre-Seaton	***	NS	NS	NS	NS	NS	NS	NS	NS	NS
Post-Seaton	***	*	NS	NS	NS	NS	NS	NS	NS	NS
TP	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre	***	***	***	NS	NS	NS	NS	***	***	*
Pre-Seaton	*	NS	NS	NS	NS	NS	*	NS	***	***
Post-Seaton	NS	NS	NS	NS	NS	NS	*	*	***	***
	•									
TIN	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre	***	***	NS	NS	NS	NS	*	***	NS	NS
Pre-Seaton	***	NS	NS	NS	NS	NS	NS	NS	NS	NS
Post-Seaton	***	NS	NS	NS	NS	NS	NS	NS	NS	NS
	•									
TON	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre	***	***	NS	NS	*	***	***	***	***	***
Pre-Seaton	**	**	NS	*	*	NS	NS	NS	*	*
Post-Seaton	***	***	*	**	***	***	*	*	***	***
Nitrate	BC	LA	BAN	BAS	LS	BP	LL	BBN	BBS	GOM
Post-Pre					3.10	3.70	u.			2.10
rost-rre	***	NS	NS	NS	NS	NS	*	***	NS	NS
Pre-Seaton	*** NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS	NS	NS NS	NS NS