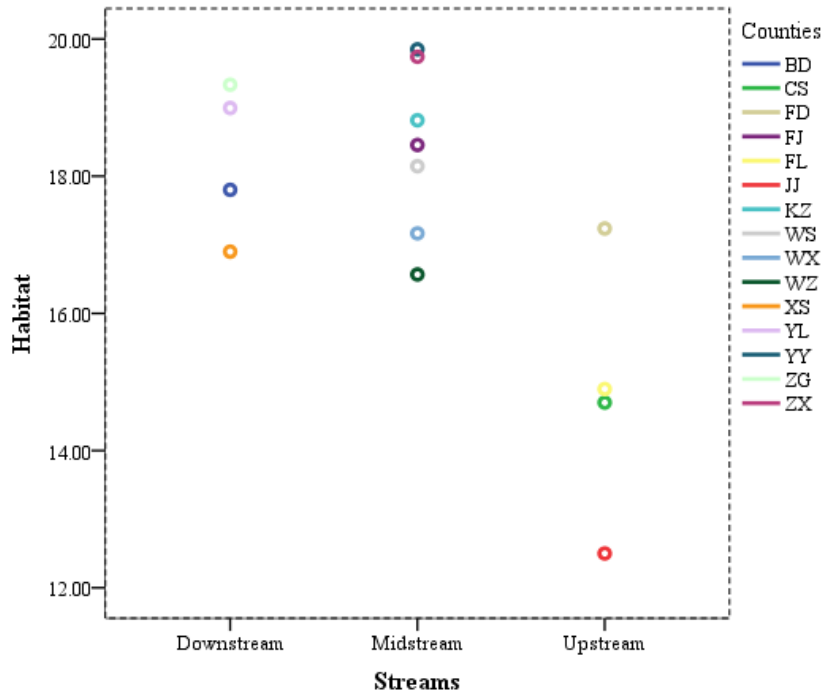
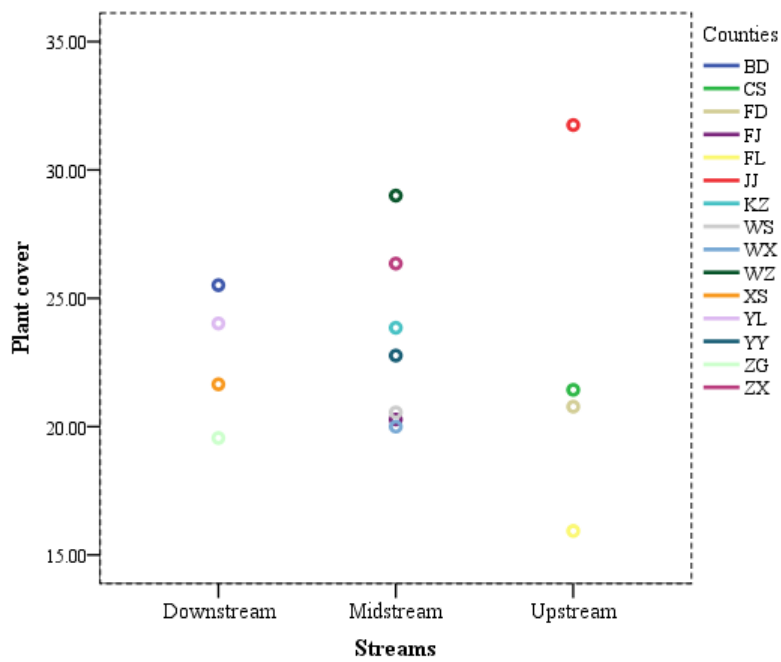


Supplementary S1: Field Based Assessment Scores of Riparian Health Indicators and Pressure Indicators for the Three Gorges Dam Reservoir, China.

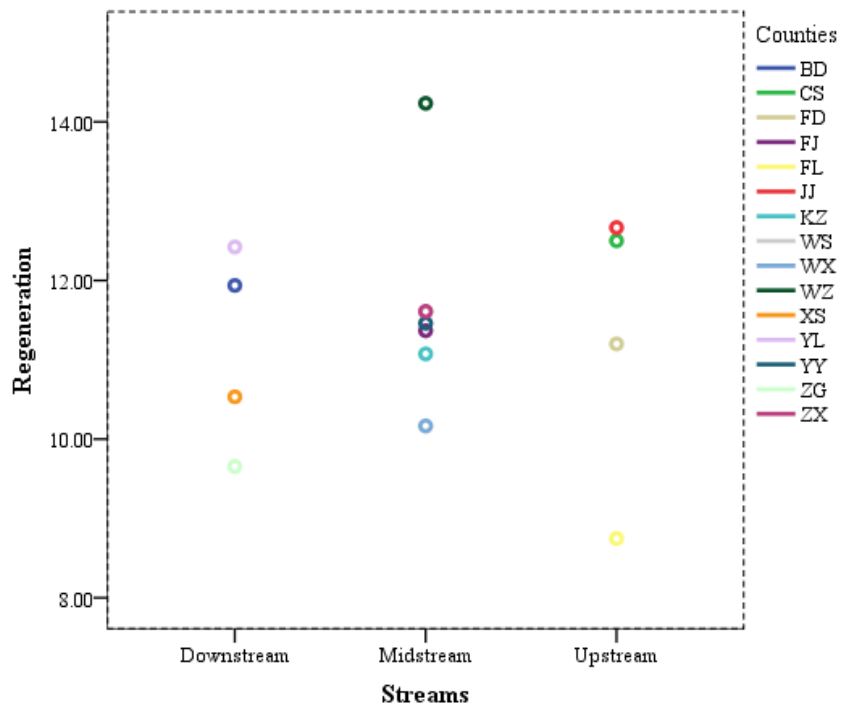
(S1)



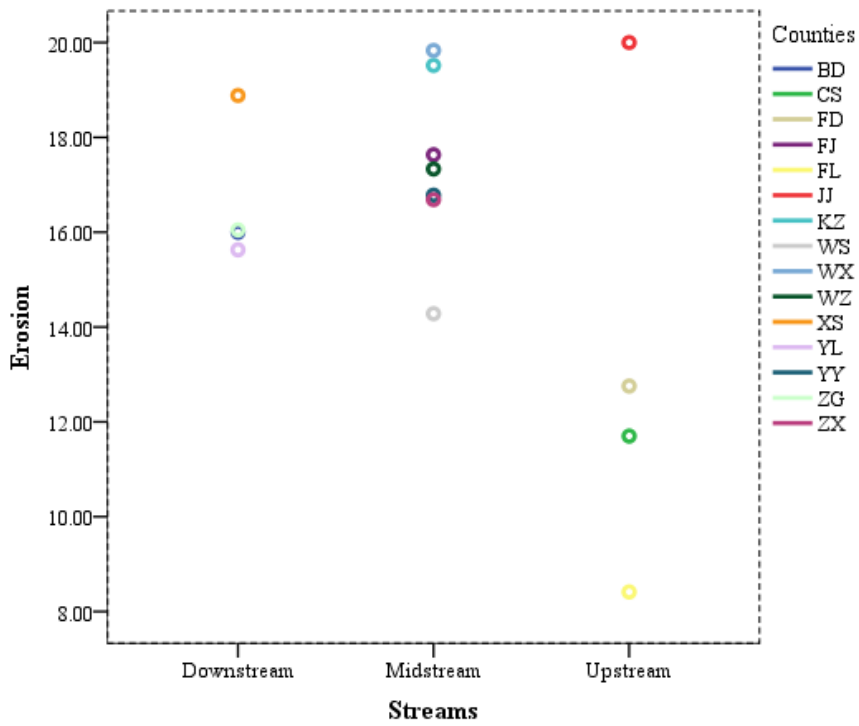
(S2)



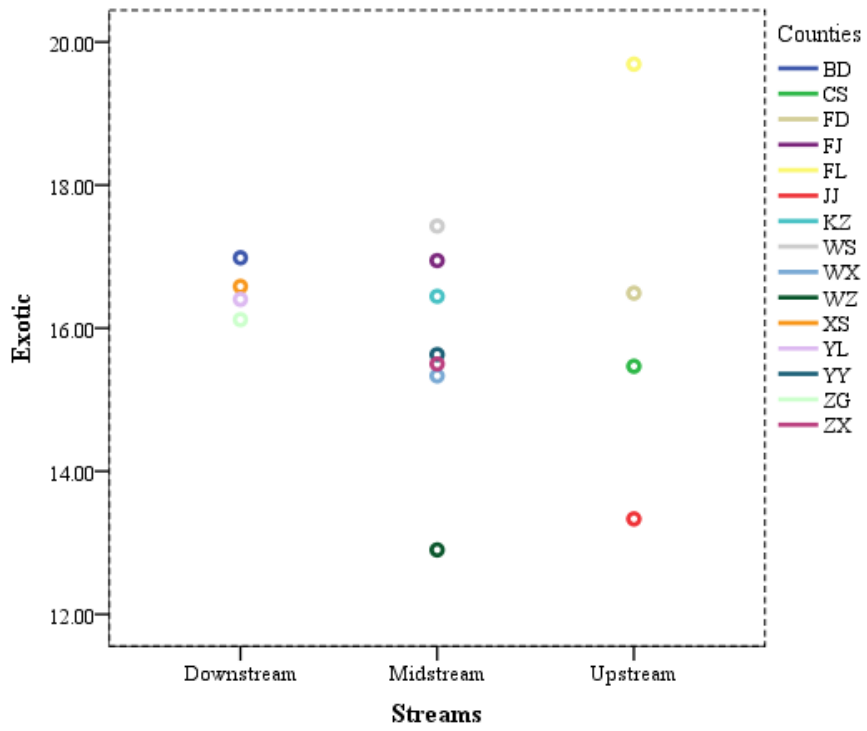
(S3)



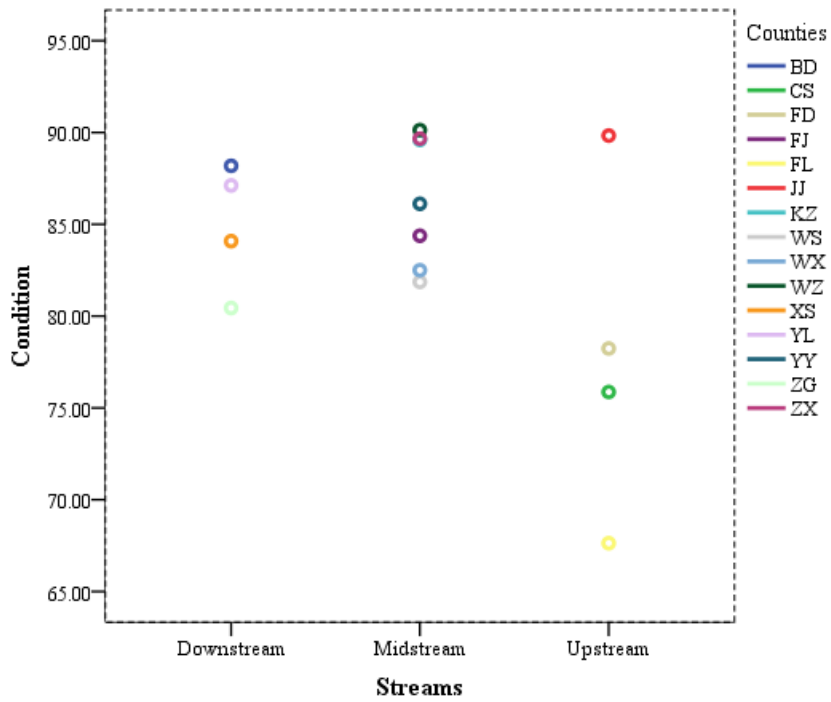
(S4)



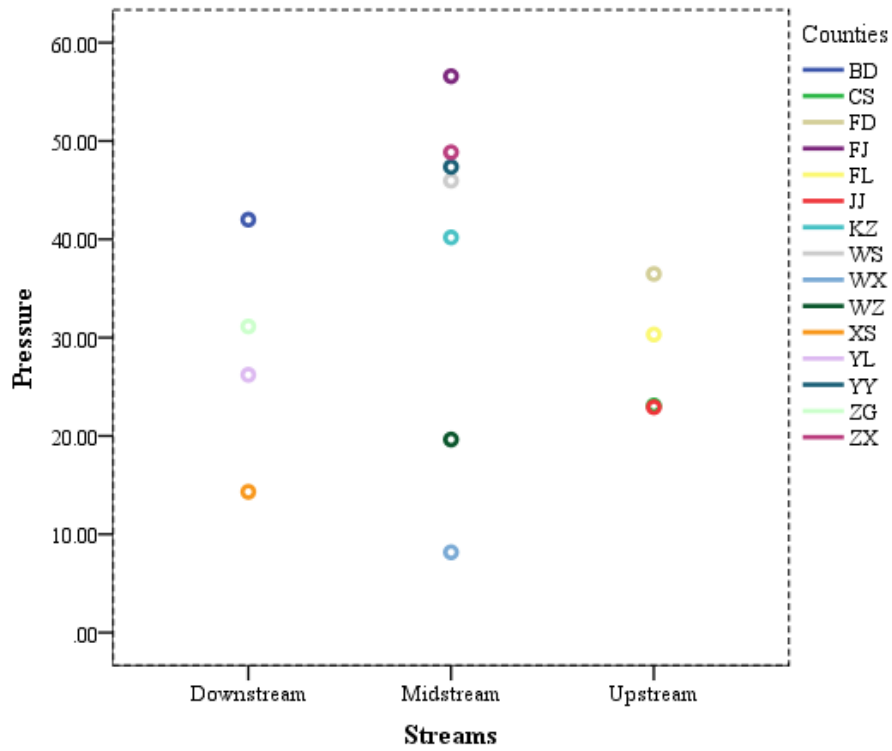
(S5)



(S6)



(S7)



Figures S (1-7). Field based assessment scores of riparian health indicators and pressure indicators (including 40 RHIs from 259 survey sites within 15 counties) in the Three Gorges Dam Reservoir, China

Pearson's Correlation Matrix S2, Tables S1-S5: Pearson's Correlation Matrix Among and Between Couples of Pressure Indicators and Condition Indicators

Table S1

Pearson's correlation matrix among and between couples of condition (habitat) and pressure indicators (upstream, midstream, downstream) in the Three Gorges Dam Reservoir, China (continued 1/3)

Indicators		Condition (habitat)								
		H1			H2			H3		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS
Condition (habitat)	H1	1	1	1						
	H2	.689**	.270**	.274*	1	1	1			
	H3	-0.004	0.122	.293*	0.148	.207*	0.169	1	1	1
	P1	.378**	.267**	0.129	.513**	.244**	0.224	-0.138	0.085	0.031
	P2	-0.268	-.196*	-0.035	-.393**	0.017	-0.124	-0.051	0.147	0.016
	P3a	-0.232	0.087	0.068	-0.125	0.07	-0.131	0.063	.174*	0.119
	P5	-0.13	-.209*	0.023	0.034	-.283**	0.092	-0.091	-.290**	0.04
Pressure	P6	0.1	0.013	-.329**	0.057	0.032	-0.038	-.464**	0.044	-.376**
	P7	-0.09	0.031	-0.112	-0.096	0.009	0.056	-.355*	-.190*	-0.05
	P8a	-0.252	0.129	0.093	-0.013	0.081	-0.027	0.056	0.11	0.169
	P8b	-0.07	0.148	0.084	0.177	0.035	0.002	0.169	0.14	.249*
	P8c	0.268	0.074	0.079	.372**	0.005	0.144	-0.046	-0.027	0.211
	P9	-0.193	0.072	0.003	0.043	0.038	-0.069	0.123	0.127	0.199
	P10	-.384**	0.003	-0.222	-0.225	-0.059	0.138	-0.181	-0.007	-0.02

(continued 2/3)

		Pressure																							
Indicators	P1			P2			P3a			P5			P6			P7			P8a			P8b			
	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	
	P1	1	1	1																					
	P2	-.407**	-.273**	-.496**	1	1	1																		
	P3a	0.103	0.073	-.284*	-0.001	0.143	.241*	1	1	1															
	P5	-0.028	-0.033	0.055	0.11	-.237**	-0.212	-0.181	-.196*	-0.044	1	1	1												
	P6	0.187	-0.061	0.043	-0.247	-0.016	-0.173	-0.039	-0.068	-0.14	-0.136	0.097	-0.047	1	1	1									
Pressure	P7	0.192	-0.065	0.015	-0.005	-0.031	-0.089	-0.022	-0.019	-0.023	0.168	.231**	-0.073	0.109	-0.057	0.144	1	1	1						
	P8a	0.083	0.132	0.027	-0.097	0.069	-.240*	.504**	.591**	.495**	0.016	0.04	0.22	-0.186	-0.105	-0.042	0.023	0.128	-0.047	1	1	1			
	P8b	0.194	.173*	0.024	-0.047	0.089	-0.19	.655**	.688**	.517**	-0.04	-0.024	0.227	-0.197	-0.055	-0.069	-0.17	0.038	-0.107	.784**	.882**	.971**	1	1	1
	P8c	.314*	0.041	.302*	-0.233	0.086	-.424**	-0.271	-0.076	-0.21	0.072	0.135	0.154	-0.157	-0.066	0.088	0.024	0.145	-0.024	.425**	.342**	.596**	.290*	.373**	.579**
	P9	0.202	0.096	0.015	-0.001	0.068	-.242*	.657**	.652**	.462**	0.037	0.053	0.207	-0.207	-0.107	0.041	-0.031	0.062	-0.022	.738**	.860**	.956**	.878**	.879**	.950**
	P10	0.087	-0.104	-0.008	-0.109	-0.001	-0.124	.400**	0.099	-0.106	-0.062	0.147	-0.036	-0.066	-0.046	0.112	.474**	.532**	.591**	0.146	0.119	0.007	0.055	0.117	-0.077

(continued 3/3)

		Pressure						
Indicators	P8c			P9			P10	
	UpS	MdS	DnS	UpS	MdS	DnS	-	
	P8c	1	1	1				
Pressure	P9	0.228	.383**	.587**	1	1	1	
	P10	-0.167	0.143	0.06	0.235	0.145	0.038	

Note: acronyms of indicators are reported in Table 1; UpS = upstream; MdS = midstream; DnS = downstream; Pearson's coefficients are reported: in yellow, when ranging from .10 to .29 and significant; in blue, when ranging from .30 to .49 and significant; in green, when higher than 0.50 and significant; in without color, when they are not significant.

** Correlation is significant at the 0.01 level (two-tailed); * Correlation is significant at the 0.05 level (two-tailed)

Table S2

Pearson's correlation matrix among and between couples of condition (plant cover) and pressure indicators (upstream, midstream, downstream) in the Three Gorges Dam Reservoir, China (continued 1/2)

Indicators		Condition (plant cover)											
		PC1			PC2			PC3b			PC6		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS
Condition (plant cover)	PC1	1	1	1									
	PC2	-0.144	0.068	0.055	1	1	1						
	PC3b	.936**	.809**	.740**	-0.229	0.096	0.075	1	1	1			
	PC6	.911**	.693**	.827**	-0.133	0.061	0.076	.858**	.772**	.682**	1	1	1
	P1	.459**	.315**	0.119	-0.02	.221**	0.061	.436**	.334**	0.13	.429**	.284**	.278*
	P2	-.307*	-.246**	0.038	0.108	-.171*	0.003	-.300*	-.350**	-0.115	-.297*	-.237**	-0.004
Pressure	P3a	-0.183	0.078	0.086	0.071	-0.068	-0.086	-0.242	0	0.014	-0.17	-0.035	0.117
	P7	-0.037	-0.035	-0.213	0.132	0.077	-0.07	-0.084	-0.003	-0.049	-0.112	0.007	-0.17
	P8a	-0.149	0.057	0.022	-0.103	-0.148	-0.149	-0.178	0.032	-0.035	-0.241	0.051	0.046
	P8b	0.013	0.05	0.074	-0.153	-0.144	-0.138	-0.018	0.012	-0.008	-0.007	0.024	0.085
	P8c	.333*	0.033	0.001	-0.148	-0.106	-0.1	.381**	0.031	0.001	0.274	0.014	-0.038
	P9	-0.035	0.026	-0.027	-0.185	-0.147	-0.128	-0.075	-0.011	-0.057	-0.143	0.001	0.037
	P10	-0.276	-0.082	-.398**	-0.118	0.082	-0.069	-.294*	-0.124	-0.223	-.348*	-0.052	-.306*

(continued 2/2)

Indicators	Pressure																											
	P1			P2			P3a			P7			P8a			P8b			P8c			P9			P10			
	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	-
P1	1	1	1																									
P2	-.407**	-.273**	-.496**	1	1	1																						
P3a	0.103	0.073	-.284*	-0.001	0.143	.241*	1	1	1																			
P7	0.192	-0.065	0.015	-0.005	-0.031	-0.089	-0.022	-0.019	-0.023	1	1	1																
P8a	0.083	0.132	0.027	-0.097	0.069	-.240*	.504**	.591**	.495**	0.023	0.128	-0.047	1	1	1													
P8b	0.194	.173*	0.024	-0.047	0.089		.655**	.688**	.517**	-0.17	0.038	-0.107	.784**	.882**	.971**	1	1	1										
P8c	.314*	0.041	.302*	-0.233	0.086	-.424**	-0.271	-0.076	-0.21	0.024	0.145	-0.024	.425**	.342**	.596**	.290*	.373**	.579**	1	1	1							
P9	0.202	0.096	0.015	-0.001	0.068	-.242*	.657**	.652**	.462**	-0.031	0.062	-0.022	.738**	.860**	.956**	.878**	.879**	.950**	0.228	.383**	.587**	1	1	1				
P10	0.087	-0.104	-0.008	-0.109	-0.001	-0.124	.400**	0.099	-0.106	.474**	.532**	.591**	0.146	0.119	0.007	0.055	0.117	-0.077	-0.167	0.143	0.06	0.235	0.145	0.038	1			

Note: acronyms of indicators are reported in Table 1; UpS = upstream; MdS = midstream; DnS = downstream; Pearson's coefficients are reported: in yellow, when ranging from .10 to .29 and significant; in blue, when ranging from .30 to .49 and significant; in green, when higher than 0.50 and significant; in without color, when they are not significant.

** Correlation is significant at the 0.01 level (two-tailed); * Correlation is significant at the 0.05 level (two-tailed)

Table S3

Pearson's correlation matrix among and between couples of condition (regeneration) and pressure indicators (upstream, midstream, downstream) in the Three Gorges Dam Reservoir, China (continued 1/2)

Indicators		Condition (regeneration)								
		R1			R2			R3		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS
Condition (regeneration)	R1	1	1	1						
	R2	0.132	0.025	0.132	1	1	1			
	R3	0.153	0.045	0.036	0.157	0.041	0.005	1	1	1
	P1	.484**	.298**	.241*	-0.192	-0.073	-0.144	-0.025	0.113	-0.062
Pressure	P2	-.359*	-.292**	-0.203	.306*	.220**	-0.001	-0.091	-0.114	0.108
	P3a	-0.17	-0.016	-0.101	-0.04	0.075	.251*	-0.09	-0.138	-0.044
	P7	-0.113	-0.065	0.028	0.069	-0.088	-0.186	0.077	.167*	0.11
	P8a	-0.13	0.075	-0.087	-0.188	-0.079	0.209	-0.129	-.221**	-0.11
	P8b	0.044	0.017	-0.102	-0.09	-0.064	.260*	-.332*	-.261**	-0.105
	P8c	.359*	-0.054	0.043	-0.097	-0.075	0.075	0.091	-0.113	-0.104
	P9	-0.022	0.026	-0.132	-0.107	-0.093	.249*	-0.25	-.223**	-0.034
	P10	-.349*	-0.098	-0.076	-0.152	-0.154	-0.122	0.056	.186*	-0.036

(continued 2/2)

		Pressure																								
Indicator	P1			P2			P3a			P7			P8a			P8b			P8c			P9			P10	
	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	-	
P1	1	1	1																							
P2	-.407**	-.273**	-.496**	1	1	1																				
P3a	0.103	0.073	-.284*	-0.001	0.143	.241*	1	1	1																	
P7	0.192	-0.065	0.015	-0.005	-0.031	-0.089	-0.022	-0.019	-0.023	1	1	1														
P8a	0.083	0.132	0.027	-0.097	0.069	-.240*	.504**	.591**	.495**	0.023	0.128	-0.047	1	1	1											
P8b	0.194	.173*	0.024	-0.047	0.089	-0.19	.655**	.688**	.517**	-0.17	0.038	-0.107	.784**	.882**	.971**	1	1	1								
P8c	.314*	0.041	.302*	-0.233	0.086	-.424**	-0.271	-0.076	-0.21	0.024	0.145	-0.024	.425**	.342**	.596**	.290*	.373**	.579**	1	1	1					
P9	0.202	0.096	0.015	-0.001	0.068	-.242*	.657**	.652**	.462**	-0.031	0.062	-0.022	.738**	.860**	.956**	.878**	.879**	.950**	0.228	.383**	.587**	1	1	1		
P10	0.087	-0.104	-0.008	-0.109	-0.001	-0.124	.400**	0.099	-0.106	.474**	.532**	.591**	0.146	0.119	0.007	0.055	0.117	-0.077	-0.167	0.143	0.06	0.235	0.145	0.038	1	

Note: acronyms of indicators are reported in Table 1; UpS = upstream; MdS = midstream; DnS = downstream; Pearson's coefficients are reported: in yellow, when ranging from .10 to .29 and significant; in blue, when ranging from .30 to .49 and significant; in green, when higher than 0.50 and significant; in without color, when they are not significant.

** Correlation is significant at the 0.01 level (two-tailed); * Correlation is significant at the 0.05 level (two-tailed)

Table S4

Pearson's correlation matrix among and between couples of condition (erosion) and pressure indicators (upstream, midstream, downstream) in the Three Gorges Dam Reservoir, China (continued 1/2)

Indicator		Condition (erosion)														
		Er1			Er2			Er3a			Er3b			Er3c		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS
Condition (erosion)	Er1	1	1	1												
	Er2	.364**	.320**	-0.067	1	1	1									
	Er3a	.503**	.233**	.326**	.295*	.227**	0.13	1	1	1						
	Er3b	.472**	0.115	0.198	0.253	.215*	0.074	.882**	.690**	.522**	1	1	1			
	Er3c	.325*	.186*	.354**	0.218	.417**	0.019	.683**	.693**	.477**	.776**	.783**	.622**	1	1	1
	P1	.645**	.282**	.468**	0.095	.202*	0.094	0.244	0.146	0.186	0.245	0.087	-0.021	0.211	.187*	0.178
Pressure	P2	-.395**	-.244**	-0.141	0.035	-0.163	0.128	-0.104	-.348**	-0.006	-0.153	-.206*	-0.078	-0.247	-.273**	-0.114
	P3a	-0.2	0.066	-.277*	-.357*	-0.137	0.133	0.137	-.191*	0.066	0.135	-.215*	0.085	0.21	-.165*	-0.008
	P7	-0.082	0.054	-0.021	0.06	0.019	0.132	-0.022	-.209*	0.036	0.093	-0.112	0.165	0.129	-0.089	0.165
	P8a	-0.189	0.082	-0.115	-0.266	-0.022	0.019	0.142	0.009	0.019	0.157	-0.082	0.068	0.237	0.055	-0.124
	P8b	0.003	0.086	-0.103	-0.242	-0.101	0.009	0.194	-0.006	-0.003	0.147	-0.101	0.038	0.172	0.027	-0.14
	P8c	.395**	0.094	0.149	0.193	-0.036	-0.131	0.218	-0.002	-0.067	0.193	-0.124	-0.146	0.089	-0.024	-0.164
	P9	-0.065	0.092	-0.099	-.295*	-0.097	-0.019	0.056	-0.047	0.014	0.064	-0.15	0.067	0.157	-0.05	-0.134
	P10	-.288*	-0.055	-0.058	-0.182	0.048	0.115	-0.121	-.200*	0.134	-0.011	-0.109	0.179	0.06	-.175*	0

(continued 2/2)

Indicator		Pressure																								
		P1			P2			P3a			P7			P8a			P8b			P8c			P9			P10
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	-
Pressure	P1	1	1	1																						
	P2	-.407**	-.273**	-.496**	1	1	1																			
	P3a	0.103	0.073	-.284*	-0.001	0.143	.241*	1	1	1																

Table S5

Pearson's correlation matrix among and between couples of condition (exotic) and pressure indicators (upstream, midstream, downstream) in the Three Gorges Dam Reservoir, China (continued 1/2)

Indicator		Condition (exotic)											
		Ex1b			Ex2			Ex3			Ex4		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS
Condition (exotic)	Ex1b	1	1	1									
	Ex2	.579**	.560**	0.212	1	1	1						
	Ex3	.871**	.630**	.311**	.726**	.607**	.478**	1	1	1			
	Ex4	.921**	.843**	.869**	.627**	.619**	.266*	.819**	.682**	.461**	1	1	1
Pressure	P1	0.122	-0.027	-.349**	-0.05	-0.126	-.313**	0.165	-0.083	-0.169	0.089	0.01	-.310*
	P2	-0.154	0.034	0.234	-0.113	-0.001	-.381**	-0.198	0.108	0.106	-0.214	0.027	0.202
	P3a	0.174	-.328**	-.381**	0.108	.199*	0.147	0.176	0.123	0.084	0.152	.279**	-.364**
	P7	-0.035	-0.131	-0.021	-0.087	-0.049	0.226	0.059	-0.091	0.21	-0.033	-0.088	0.054
	P8a	-0.038	.275**	0.08	0.012	0.135	-0.073	0.112	.241**	0.117	-0.155	-.309**	0.06
	P8b	-0.003	-.356**	0.088	0.033	0.14	-0.105	0.099	.289**	0.093	-0.069	-.345**	0.067
	P8c	-.328*	0.102	-0.182	-0.155	0.135	-0.159	-0.226	.297**	0.052	-.376**	0.164	-0.227
	P9	0.02	-.311**	0.084	0.15	.195*	-0.056	0.128	.245**	0.102	-0.061	-.328**	0.064
	P10	0.201	-0.059	-0.015	-.310*	0.087	0.169	.293*	0.016	0.15	0.236	0.056	-0.015

(continued 2/2)

Indicators		Pressure																										
		P1			P2			P3a			P7			P8a			P8b			P8c			P9			P10		
		UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS	UpS	MdS	DnS			
Pressure	P1	1	1	1																								
	P2	-.407**	-.273**	-.496**	1	1	1																					

