

## Supplementary material

**Supplement to:** Donato, K.M., Valentine, L., Carrico, A., Wilson, C.A., Rogers, K.G., Tonassi, T. (2024) Migration and Erosion in Tidal and River Channels in Bangladesh. *Vienna Yearbook of Population Research*, 22.

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**Table S.1** Descriptive statistics for livelihoods and landownership by migrant type

	Domestic migrants				International migrants				Non-migrants				Total			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
Erosion (km <sup>2</sup> )	.224	.777	.000	5.965	.383	1.097	.000	5.965	.214	.707	.000	5.965	.222	.739	.000	5.965
<u>Livelihood &amp; landownership</u>																
Non-AG/non-LO	.712	.453	0	1	.671	.470	0	1	.419	.493	0	1	.489	.500	0	1
Non-AG/LO	.128	.334	0	1	.137	.344	0	1	.187	.390	0	1	.174	.379	0	1
AG/LO	.046	.210	0	1	.078	.269	0	1	.223	.416	0	1	.181	.385	0	1
AG/non-LO	.114	.318	0	1	.113	.317	0	1	.171	.377	0	1	.156	.363	0	1
Owns > 2 acres of agrarian land	.010	.098	0	1	.019	.138	0	1	.046	.210	0	1	.038	.191	0	1
Head/family member works on land	.194	.396	0	1	.231	.422	0	1	.395	.489	0	1	.348	.476	0	1
Family migrated internally	.366	.482	0	1	.343	.475	0	1	.315	.464	0	1	.327	.469	0	1
Family migrated internationally	.083	.276	0	1	.105	.307	0	1	.086	.280	0	1	.086	.280	0	1
<u>Age</u>																
Under 20	.354	.478	0	1	.240	.427	0	1	.101	.302	0	1	.155	.362	0	1
21-34	.439	.496	0	1	.583	.493	0	1	.336	.472	0	1	.369	.483	0	1
35-49	.164	.370	0	1	.123	.329	0	1	.337	.473	0	1	.293	.455	0	1
Over 50	.044	.204	0	1	.053	.225	0	1	.226	.418	0	1	.182	.386	0	1
<u>Education</u>																
Less than primary	.322	.467	0	1	.289	.453	0	1	.489	.500	0	1	.446	.497	0	1
Completed primary	.299	.458	0	1	.436	.496	0	1	.332	.471	0	1	.331	.471	0	1
Completed secondary	.085	.279	0	1	.128	.334	0	1	.081	.272	0	1	.083	.276	0	1
Higher than secondary	.294	.456	0	1	.147	.355	0	1	.098	.298	0	1	.140	.347	0	1
Female	.127	.333	0	1	.061	.239	0	1	.197	.398	0	1	.176	.381	0	1
Muslim	.946	.226	0	1	.999	.036	0	1	.946	.227	0	1	.948	.222	0	1
Married	.502	.500	0	1	.609	.488	0	1	.807	.394	0	1	.740	.439	0	1
Wealth index score	.202	1.067	-1.664	2.572	.230	.949	-1.486	2.373	-.164	.906	-1.664	2.720	-.072	.957	-1.664	2.720
n (person years)	8170				2320				30863				40939			

**Table S.2** Logistic regressions predicting domestic and international trips

	Domestic trip		International trip	
	Model A	Model B	Model A	Model B
	<i>OR</i>	<i>OR</i>	<i>OR</i>	<i>OR</i>
Erosion (km <sup>2</sup> )	1.114***	-	1.062	-
<u>Livelihood &amp; landownership</u> <u>(ref=non-AG/non-LO)</u>				
Non-AG/LO	.755***	.764***	.739	.787
AG/non-LO	1.077***	1.046**	.666**	.812
AG/LO	.816	.845	.619**	.524***
> 2 acres of agricultural land	.586**	.588**	1.540	1.477
Head/family member works on land	.673***	.670***	.554***	.582***
Family migrated internally	1.013	1.013	-	-
Family migrated internationally	-	-	1.181	1.169
Prior trip (ref=no prior trip)	8.150***	8.148***	9.304***	9.471***
<u>Age (ref=under 20)</u>				
20-34	.616***	.617***	2.779***	2.817***
35-49	.232***	.233***	1.049	1.047
50 or older	.129***	.129***	.392*	.406
<u>Education (ref=less than primary)</u>				
Completed primary	.970	.973	1.505***	1.498***
Some/completed secondary	1.176*	1.177*	1.169	1.170
More than secondary	1.380**	.1.383**	.817	.823
Female (ref=male)	.730***	.731***	.274***	.276***
Muslim (ref=non-Muslim)	.974	.975	7.885**	7.799**
Married (ref=not married)	.844**	.845**	1.001	1.014
Wealth index score	1.104*	1.103*	1.544***	1.540***
Dry spells (CDD)	.999	.999	1.008**	1.008***
Wet spells (CWD)	1.004	1.004	.979	.980
<u>Interactions</u>				
Erosion*Non-AG/non-LO	-	1.147***	-	1.103**
Erosion*Non-AG/LO	-	1.081	-	.817**
Erosion*AG/non-LO	-	1.217***	-	.234
Erosion*AG/LO	-	1.048	-	1.333***
Constant	.041***	.041***	.000***	.000***
Observations	63751	63751	37457	37457
Pseudo R-squared	.133	.133	.227	.230
Year fixed effects	Yes	Yes	Yes	Yes
Site fixed effects	Yes	Yes	Yes	Yes