

Table S1. Exploitation rate (*E*) of and catch trend of the selected bycatch of Hilsa gillnet fishery of Bangladesh. Species listed in bold text are from inland habitat (river) and the rest of the species are reported from marine habitat.

Species name	<i>E</i>	Ref.	Fisher's perception (n=50) of catch trend			Split analysis	Catch trend
			Increasing	Stable	Decreasing		
<i>Clupisoma garua</i>	0.34	1	9	5	36	-1	D
<i>Coilia ramcarati</i>	0.87	2	18	20	12	1	S
<i>Harpadon nehereus</i>	0.58	3	21	18	11	1	S
<i>Ilisha filigera</i>	0.40	4	19	18	13	1	S
<i>Lates calcarifer</i>	0.37	5	10	4	36	-1	D
<i>Lepturacanthus savala</i>	0.43	9	17	18	15	1	S
<i>Megalaspis cordyla</i>	0.33	10	27	17	6	1	S
<i>Mystus gulio</i>	0.47	5	9	15	26	1	S
<i>Nemipterus japonicus</i>	0.41	6	8	39	3	1	S
<i>Netuma thalassina</i>	0.62	7	3	6	41	-1	D
<i>Otolithoides pama</i>	0.27	5	25	17	8	0	NS
<i>Pampus argenteus</i>	0.23	8	21	18	11	1	S
<i>Pampus chinensis</i>	0.36	8	26	16	8	1	S
<i>Parastromateus niger</i>	0.56	8	11	7	32	-1	D
<i>Pennahia argentata</i>	0.29	11	6	34	10	1	S
<i>Polynemus paradiseus</i>	0.72	12	4	5	41	-1	D
<i>Pomadasys argenteus</i>	0.51	13	13	6	31	-1	D
<i>Rastrelliger kanagurta</i>	0.65	14	18	25	7	1	S
<i>Rhinomugil corsula</i>	0.42	15	21	22	7	1	S
<i>Scoliodon laticaudus</i>	0.57	16	7	3	40	-1	D
<i>Scomberomorus guttatus</i>	0.45	17	12	27	11	1	S

D = Decreasing, NS = Not significant, S = Stable.

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Table S2. Study districts including the survey points details. Values inside the parenthesis indicates the number of participants in each FGD.

District	Survey Points ID	Survey Station Name	Type of Survey Station	Adjacent River/Marine area	Hilsa Fisher Interviewed	FGD (No)	KII
Chandpur	CHA1	Rajrajeshwar	Inland	Meghna and Padma river	15	1(5)	1
	CHA2	Haim Char	Inland	Meghna river	15	1(5)	
Barishal	BAR1	Puraton Hizla Bazar	Inland	Meghna river	15	1(5)	2
	BAR2	Mehendiganj	Inland	Meghna river	15	1(5)	
Bhola	BHO1	Daulatkhan	Inland	Meghna river	15	1 (5)	2
	BHO2	Mirza Kalur Ghat	Inland	Meghna river	15	1(5)	
	BHO3	Joya Mazir Ghat	Inland	Tetulia river	15	1(5)	1
	BHO4	Bokshi Fish Market, Charfassion	Marine, Inland	Bay of Bengal, Tetulia river	30, 15	1(10), 1(5)	1
Patuakhali	PAT1	Sudhirpur	Inland	Andharmanik river	15	1(5)	1
	PAT2	Char Baliatali	Inland	Galachipa river	15	1(5)	1
	PAT3	Mohipur Fish Landing Centre	Marine	Bay of Bengal	30	1(10)	1
Barguna	BAU	Patharghata BFDC Fish Landing Centre	Marine	Bay of Bengal	30	1(10)	2
Chattogram	CHI	Fishery Ghat (New) Bangladesh Fisheries	Marine	Bay of Bengal	30	1(10)	1
Cox's Bazar	COX	Development Corporation (BFDC) Fish Landing Centre	Marine	Bay of Bengal	30	1(10)	2

FGD=Focus Group Discussion; KII= Key Informant Interview.

Table S3. Productivity attributes with values (e.g., t_{max} value), scores (e.g., t_{max} score) and corresponding references used in the productivity susceptibility analysis (PSA) for the selected bycatch of Hilsa gillnet fishery of Bangladesh. Each of the attribute's names in full form is provided in the main text (Table 2). Attributes values have mainly complied from existing literature (normal text). In absence of information for particular attributes (bold italic text), we have assigned scores in both the conservative and alternative scoring methods. Score inside the parentheses is being assigned considering conservative scoring approach, whereas value outside the parentheses is assigned based on corresponding attribute value calculated from empirical relationship equations (described in the main text).

Species name	t_{max} value	t_{max} score	Ref.	L_{max} value	L_{max} score	Ref.	k value	k score	Ref.	M value	M score	Ref.
<i>Clupisoma garua</i>	3.8	3(1)	1	60	2	12	0.79	2	27	1.53	3	27
<i>Coilia ramcarati</i>	6.12	2(1)	1	25	3	13	0.49	2	28	1.19	2	28
<i>Harpadon nehereus</i>	2.31	3(1)	1	40	2	14	1.3	3	29	1.86	3	29
<i>Ilisha filigera</i>	4	2	2	47	2	15	0.8	3	15	1.35	3	15
<i>Lates calcarifer</i>	6	2	3	152	1	16	0.5	2	3	0.956	2	3
<i>Lepturacanthus savala</i>	3.3	3	4	104	1	17	0.8	3	17	1.08	2	17
<i>Megalaspis cordyla</i>	4	2	5	40	2	18	0.58	2	30	1.17	2	30
<i>Mystus gulio</i>	4	2	3	29.2	3	19	0.75	2	3	1.59	3	3
<i>Nemipterus japonicus</i>	8	2	6	32	3	20	0.94	3	31	1.81	3	31
<i>Netuma thalassinus</i>	9.09	1(1)	1	95	1	21	0.33	2	21	0.62	1	21
<i>Otolithoides pama</i>	3.5	3	3	31	3	3	0.8	3	3	1.507	3	3
<i>Pampus argenteus</i>	7	2	7	52	2	22	0.39	2	22	0.73	1	22
<i>Pampus chinensis</i>	4.84	2(1)	1	50	2	22	0.62	2	22	0.99	2	22
<i>Parastromateus niger</i>	6	2	8	54	2	22	0.94	3	22	1.28	3	22
<i>Pennahia argentata</i>	3.49	3(1)	1	44.2	2	23	0.86	3	23	1.44	3	23
<i>Polynemus paradiseus</i>	6.12	2(1)	1	21.7	3	24	0.49	2	32	1.21	2	32
<i>Pomadasys argenteus</i>	7.89	2(1)	1	55	2	20	0.38	2	33	0.79	2	33
<i>Rastrelliger kanagurta</i>	4	2	9	26	3	25	0.9	3	25	1.71	3	25
<i>Rhinomugil corsula</i>	7	2	10	35	3	14	1	3	34	1.73	3	34
<i>Scoliodon laticaudus</i>	6	2	11	75	2	26	0.3	1	35	0.57	1	35
<i>Scomberomorus guttatus</i>	5	2(1)	1	82	2	18	0.6	2	36	0.99	2	36

Table S3. (cont...) Productivity attributes with values (e.g., t_{max} value), scores (e.g., t_{ma} score) and corresponding references used in the productivity susceptibility analysis (PSA) for the selected bycatch of Hilsa gillnet fishery of Bangladesh. Each of the attribute's names in full form is provided in the main text (Table 2). Attributes values have mainly complied from existing literature (normal text). In absence of information for particular attributes (bold italic text), we have assigned scores in both the conservative and alternative scoring methods. Score inside the parentheses is being assigned considering conservative scoring approach, whereas value outside the parentheses is assigned based on corresponding attribute value calculated from empirical relationship equations (described in the main text).

Species name	MF value	MF score	Ref.	BS score	Ref.	t_{mat} value	t_{mat} score	Ref.	MTL value	MTL score	Ref.
<i>Clupisoma garua</i>	6159	1	37	3	57	1	2	63	3.7	2	59
<i>Coilia ramcarati</i>	3129	1	38	3	38	1.86	2(1)	1	3.4	3	59
<i>Harpadon nehereus</i>	89600	3	39	3	58	0.68	3(1)	1	4.2	1	59
<i>Ilisha filigera</i>	32756	2	40	3	42	1	2	42	3.5	2	59
<i>Lates calcarifer</i>	4448496	3	41	3	20, 59	2	2	20	3.8	2	59
<i>Lepturacanthus savala</i>	9178	1	42	3	60	0.55	3(1)	1	4.3	1	59
<i>Megalaspis cordyla</i>	91854	3	43	3	61	1.3	2(1)	1	3.9	2	59
<i>Mystus gulio</i>	11436	2	44	3	57	1.19	2(1)	1	4	1	59
<i>Nemipterus japonicus</i>	14212	2	45	3	20	0.84	3(1)	1	4.1	1	59
<i>Netuma thalassinus</i>	66	1	46	1	62	2.3	1(1)	1	3.5	1	59
<i>Otolithoides pama</i>	2387	1	47	3	63	1.1	2(1)	1	3.9	2	59
<i>Pampus argenteus</i>	26109	2	47	3	57	1.82	2(1)	1	3.3	3	59
<i>Pampus chinensis</i>	26109	2	48	3	57	1.3	2(1)	1	3.6	2	59
<i>Parastromateus niger</i>	412920	3	49	3	64	0.9	3(1)	1	2.9	3	59
<i>Pennahia argentata</i>	44621	2	50	3	65	1	2	66	4.1	1	59
<i>Polynemus paradiseus</i>	4985	1	51	3	57	1.91	2(1)	1	3.9	2	59
<i>Pomadasys argenteus</i>	10550	1	52	3	20	2.12	1(1)	1	3.5	2	59
<i>Rastrelliger kanagurta</i>	42517	2	53	3	20	1.72	2(1)	1	3.2	3	59
<i>Rhinomugil corsula</i>	9506	1	54	3	57	0.34	3(1)	1	2.4	3	59
<i>Scoliodon laticaudus</i>	10	1	55	1	57	2.07	1(1)	1	3.8	2	59
<i>Scomberomorus guttatus</i>	385000	3	56	3	20	1.8	2	67	4.3	1	59

Table S3. (cont...) Productivity attributes with values (e.g., t_{max} value), scores (e.g., t_{ma} score) and corresponding references used in the productivity susceptibility analysis (PSA) for the selected bycatch of Hilsa gillnet fishery of Bangladesh. Each of the attribute's names in full form is provided in the main text (Table 2). Attributes values have mainly complied from existing literature (normal text). In absence of information for particular attributes (bold italic text), we have assigned scores in both the conservative and alternative scoring methods. Score inside the parentheses is being assigned considering conservative scoring approach, whereas value outside the parentheses is assigned based on corresponding attribute value calculated from empirical relationship equations (described in the main text).

Species name	L_{mat} value	L_{mat} score	Ref .	BC score	Ref.	t_{mat}/t_{max} value	t_{mat}/t_{max} score	Ref.	L_{mat}/L_{max} value	L_{mat}/L_{max} score	Ref.
<i>Clupisoma garua</i>	34.1	2(1)	1	2	37	0.26	2	1, 63	0.57	2	1, 12
<i>Coilia ramcarati</i>	15.7	3(1)	1	3	38	0.3	1(1)	1	0.63	1	1, 13
<i>Harpadon nehereus</i>	24.5	2	68	3	18	0.29	2 (1)	1	0.61	1	45, 68
<i>Ilisha filigera</i>	27.5	2(1)	1	3	40	0.25	2	2, 42	0.59	2	1, 15
<i>Lates calcarifer</i>	77.5	1(1)	1	3	20	0.33	1	3, 20	0.51	3	1, 16
<i>Lepturacanthus savala</i>	38	2	4	2	72	0.17	3	1, 4	0.37	3	15, 17
<i>Megalaspis cordyla</i>	22	2	20	2	20	0.33	1	1, 5	0.55	2	18, 20
<i>Mystus gulio</i>	18.04	3(1)	1	3	44	0.3	2	1, 3	0.62	1	1, 19
<i>Nemipterus japonicus</i>	18.3	3	45	3	45	0.11	3	1, 6	0.57	2	20, 45
<i>Netuma thalassinus</i>	52	1	46	3	20, 46	0.25	2(1)	1	0.55	2	21, 46
<i>Otolithoides pama</i>	19.02	2(1)	1	2	3	0.31	1	1, 3	0.61	1	1, 3
<i>Pampus argenteus</i>	27.5	2	69	3	69	0.26	2	1, 7	0.53	2	22, 69
<i>Pampus chinensis</i>	29	2(1)	1	2	73	0.27	2(1)	1	0.58	2	1, 22

<i>Parastromateus niger</i>	31	2	18	2	49	0.15	3	1, 8	0.57	2	18, 22
<i>Pennahia argentata</i>	26	2(1)	1	3	65	0.29	2	1, 66	0.59	2	1, 23
<i>Polynemus paradiseus</i>	13.9	3(1)	1	2	51	0.31	1(1)	1	0.64	1	1, 24
<i>Pomadasys argenteus</i>	31.6	2(1)	1	3	74	0.27	2(1)	1	0.57	2	1, 20
<i>Rastrelliger kanagurta</i>	21.5	2	53	3	53	0.43	1	1, 9	0.83	1	25, 53
<i>Rhinomugil corsula</i>	10.42	3	34	2	54	0.05	3	1, 10	0.3	3	14, 34
<i>Scoliodon laticaudus</i>	35.79	2	70	2	55	0.35	1	1, 11	0.48	3	26, 70
<i>Scomberomorus guttatus</i>	40	1	71	3	36	0.36	1	1, 67	0.49	3	18, 71

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Table S4. Susceptibility attributes with scores (e.g., AO score) and corresponding references used in the productivity susceptibility analysis (PSA) for the selected bycatch of Hilsa gillnet fishery of Bangladesh. Each of the attribute's names in full form is provided in the main text (Table 3). Attributes values have mainly complied from existing literature, focus group discussion (FGD) and direct field observation (DO) (normal text). In absence of information for particular attributes (bold italic text), we have assigned scores in both the conservative and alternative scoring methods. Score inside the parentheses is being assigned considering conservative scoring approach, whereas value outside the parentheses is assigned based on expert opinion from key informant interview (KII).

Species name	A O	Ref.	VO	Ref.	SM	Ref.	SAB R	Ref.	MCA C	Ref.	MSt	Ref.	SC R	Ref.	MV F	Ref.	MDF	Ref.	F/ M	Ref.
<i>Clupisoma garua</i>	1	1; FGD	3(3)	FGD, KII	3	3; 4	3	10	3	10; 14; 16	2	21; 22; FGD	3 (3)	FGD, KII	3	DO	3	FGD, DO	2	24
<i>Coilia ramcarati</i>	3	1; FGD	3	2; FGD	3	3; 4	3	7	1	5; 7	2	21; 22; FGD	3	23; FGD	1	DO	1	FGD, DO	3	25
<i>Harpadon nehereus</i>	3	2; FGD	3	2; FGD	2	3; 5	3	7	1	5; 7	2	21; 22; FGD	3	23; FGD	1	DO	3	FGD, DO	3	26
<i>Ilisha filigera</i>	3	1; FGD	3	2; FGD	3	3; 4	3	7	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	2	FGD, DO	2	27
<i>Lates calcarifer</i>	3	2; FGD	3	2; FGD	2	3; 4	3	11	3	5; 7	2	21; 22; FGD	3	23; FGD	3	DO	3	FGD, DO	2	28
<i>Lepturacanthus savala</i>	3	2; FGD	3	2; FGD	2	6; 7	3	12; 13	1	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	3	FGD, DO	2	29
<i>Megalaspis cordyla</i>	2	2; FGD	2	2; FGD	2	7	3	7	3	5; 7	2	21; 22; FGD	3	23; FGD	1	DO	2	FGD, DO	2	30
<i>Mystus gulio</i>	3	1; FGD	3(3)	FGD, KII	2	3; 4	3	14	3	10; 14; 16	2	21; 22; FGD	3 (3)	FGD, KII	2	DO	3	FGD, DO	2	28
<i>Nemipterus japonicus</i>	1	2; FGD	1	2; FGD	1	7; 8	3	7	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	2	FGD, DO	2	31
<i>Netuma thalassinus</i>	3	2; FGD	3	2; FGD	3	4	3	12; 15	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	2	FGD, DO	3	32
<i>Otolithoides pama</i>	3	1; FGD	3(3)	FGD, KII	3	3; 4	3	10; 16	3	10; 14; 16	2	21; 22; FGD	3	FGD, KII	2	DO	3	FGD, DO	1	28
<i>Pampus argenteus</i>	3	2; FGD	3	2; FGD	2	3; 7	3	12; 7	2	5; 7	2	21; 22; FGD	3	23; FGD	3	DO	3	FGD, DO	1	33
<i>Pampus chinensis</i>	3	2; FGD	3	2; FGD	2	3; 7	2	12; 7	2	5; 7	2	21; 22; FGD	3	23; FGD	3	DO	3	FGD, DO	2	33
<i>Parastrumateus niger</i>	3	2; FGD	3	2; FGD	2	3; 4; 9	3	12; 7	3	5; 7	2	21; 22; FGD	3	23; FGD	3	DO	3	FGD, DO	3	33
<i>Pennahia argentata</i>	3	2; FGD	3	2; FGD	1	4	3	7	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	2	FGD, DO	1	34

<i>Polynemus paradiseus</i>	3	1; FGD	3	2; FGD	3	3	3	17	2	5; 7	2	21; 22; FGD	3	23; FGD	3	DO	3	FGD, DO	3	35
<i>Pomadasys argenteus</i>	3	2; FGD	3	2; FGD	2	9; 7	2	7	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	3	FGD, DO	3	36
<i>Rastrelliger kanagurta</i>	2	2; FGD	2	2; FGD	1	7; 4	3	7; 18	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	3	FGD, DO	3	37
<i>Rhinomugil corsula</i>	3	1; FGD	3(3)	FGD, KII	2	3; 4	3	19	2	10; 14; 16	2	21; 22; FGD	3 (3)	FGD, KII	2	DO	3	FGD, DO	2	38
<i>Scoliodon laticaudus</i>	3	2; FGD	3	2; FGD	2	4	3	20	3	5; 7	2	21; 22; FGD	3	23; FGD	1	DO	1	FGD, DO	3	39
<i>Scomberomorus guttatus</i>	2	2; FGD	2	2; FGD	1	7; 4	3	5; 7	3	5; 7	2	21; 22; FGD	3	23; FGD	2	DO	3	FGD, DO	2	40

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