

Appendix A: Total abundance (N) of Amphipod species (ind.m⁻²), Trophic group (TG), Life style, Ecological group (EG) and References.

Families	Species	TG*	Lifestyle	EG*	References*
Ampeliscidae	<i>Ampelisca abdita</i>	Det	Dom	III	8, 16 (as <i>Ampelisca</i> sp.)
	<i>Ampelisca aequicornis</i>	Det	Dom	I	7, 5, 16 (as <i>Ampelisca</i> sp.)
	<i>Ampelisca diadema</i>	Det	Dom	II	7, 8
	<i>Ampelisca scabripes</i>	Det	Dom	I	7, 8, 16 (as <i>Ampelisca</i> sp.)
	<i>Ampelisca</i> sp.	Det	Dom	I	7, 8
	<i>Ampelisca spinifer</i>	Det	Dom	I	7, 8
	<i>Ampelisca spinipes</i>	Det	Dom	I	7, 8, 16 (as <i>Ampelisca</i> sp.)
	<i>Ampelisca typica</i>	Det	Dom	I	7, 8
Amphilochidae	<i>Amphilochus</i> sp.	Det-car	Int	II	7, 8 (as Amphilochidae)
	<i>Gitanopsis gouriae</i>	Det-car	Dom	NA	8, 12 (as Amphilochidae and <i>Gitanopsis</i> sp.)
	<i>Gitanopsis</i> sp.	Det-car	Dom	NA	8, 12
Aoridae	<i>Autoneo longipes</i>	Det	Dom	I	7, 14 (as <i>Autoneo</i> sp.)
	<i>Grandidierella bonnieroides</i>	Det	Dom	I	8, 17 (as Aoridae and <i>Grandidierella</i> sp.)
	<i>Grandidierella japonica</i>	Det	Dom	III	8, 17 (as Aoridae and <i>Grandidierella</i> sp.)
	<i>Grandidierella megnae</i>	Det	Dom	I	8, 17 (as Aoridae and <i>Grandidierella</i> sp.)
	<i>Grandidierella</i> sp.	Det	Dom	I	8, 17 (as Aoridae and <i>Grandidierella</i> sp.)
	<i>Lembos</i> sp.	Det	Dom	I	8, 12
	<i>Lembos websteri</i>	Det	Dom	I	8, 12 (<i>Lembos</i> sp.)
	<i>Microdeutopus</i> sp.	Det	Dom	I	7, 8, 16
	<i>Paramicrodeutopus schmitti</i>	Det	Dom	II	7, 8, (as <i>Microdeutopus</i> sp.)
Caprellidae	<i>Caprella</i> sp.	Det	Int	II	5, 6, 7, 8
Corophiidae	<i>Americorophium</i> sp.	Det	Dom	III	7, 8, 12, 1 (as Corophiidae)
	<i>Cheiriphotis megacheles</i>	Det	Dom	I	8, 12, 17 (as Corophiidae)
	<i>Cheiriphotis trifurcata</i>	Det	Dom	I	8, 12, 17 (as Corophiidae)
	Corophiidae	Det	Dom	NA	8, 12, 16 (as Corophiidae)
	<i>Corophium</i> sp.	Det	Dom	III	8, 12, 16
Dexaminidae	<i>Dexamine spinosa</i>	Det	Int	III	7
Dulichidae	<i>Dulichia</i> sp.	Det-her	Int	III	9, 10, 11
	<i>Dyopedos</i> sp.	Det-her	Int	III	9, 15
Gammaridae	<i>Gammarus</i> sp.	Car-omn	Int	I	1, 16
Isaeidae	Isaeidae	Det	Dom	NA	7
Ischyroceridae	<i>Cerapus</i> sp.	Det	Dom	I	8, 12 (as Ischyroceridae)
	<i>Erichthonius brasiliensis</i>	Det	Dom	I	7, 8 (as <i>Erichthonius</i> sp.)
	<i>Erichthonius</i> sp.	Detr	Dom	I	7, 8
	<i>Notopoma crassicornis</i>	Det	Dom	I	9, 12 (as <i>Cerapus</i> sp. and Ischyroceridae)

Table 2 Contd

Family	Species	TG*	Lifestyle	EG*	Ref*
Liljeborgioidae	<i>Idunella chilkinsis</i>	Car-omn	Int	I	8, 12, 16 (as <i>Liljeborgia</i> sp. and <i>Listriella</i> sp.)
	<i>Idunella picta</i>	Car-omn	Int	I	8, 12, 16 (as <i>Liljeborgia</i> sp and <i>Listriella</i> sp.)
	<i>Idunella</i> sp.	Car-omn	Int	I	8, 12, 16 (as <i>Liljeborgia</i> sp. and <i>Listriella</i> sp.)
Melitidae	<i>Allomelita pellucida</i>	Det	Int	III	1, 7, 8 (as <i>Melita</i> sp.)
	<i>Eriopisa</i> sp.	Det	Int	I	1, 7, 8 (as <i>Melita</i> sp.)
	<i>Melita dentata</i>	Det	Int	I	1, 7, 8 (as <i>Melita</i> sp.)
	<i>Melita</i> sp.	Det	Int	I	1, 7, 8
Microprotopidae	<i>Microprotopus maculatus</i>	Det	Dom	I	7, 8 (as <i>Microprotopus</i> sp.)
	<i>Microprotopus</i> sp.	Det	Dom	I	7, 8
Photidae	<i>Gammaropsis</i> sp.	Det	Dom	I	7, 8
	<i>Photis longicaudata</i>	Det	Dom	I	7, 8, 12
	<i>Photis</i> sp.	Det	Dom	I	7, 8, 12
Podoceridae	Podoceridae	Det	Int	NA	8, 12
	<i>Podocerus brasiliensis</i>	Det	Int	III	8, 12
	<i>Podocerus spongicolus</i>	Det	Int	II	8, 12 (as <i>Podocerus</i> sp.)
Pontogeneiidae	<i>Pontogeneia</i> sp.	Car-omn	Int	II	2, 8, (as Pontogeneiidae)
Stenothoidae	<i>Stenothoe gallensis</i>	Car-omn	Int	II	4, 8, 13 (as <i>Stenothoe</i> sp.)
	<i>Stenothoe marina</i>	Car-omn	Int	II	4, 8, 13 (as <i>Stenothoe</i> sp.)
	<i>Stenothoe</i> sp.	Car-omn	Int	II	4, 8, 13
Talitridae	<i>Platorchestia platensis</i>	Det-her	Int	NA	3, 8 (as Talitridae)
Urothoidae	<i>Urothoe pulchella</i>	Det	Fos	I	7, 8, 12
	<i>Urothoe</i> sp.	Det	Fos	I	7, 8, 12

*Det- Detritivorous; Det-her- Detritivorous-herbivorous; Det-car- Detritivorous-carnivorous; Car-omn- Carnivorous-omnivorous, Dom- Domiculous; Fos- Fossorial; Int- Interstitial; EG-I (Species very sensitive to organic enrichment); EG-II (Species indifferent to enrichment); EG-III (Species tolerant to excess organic matter enrichment) NA- Not assigned.

References: 1: Afli et al., (2008), 2: Amsler et al., (2009), 3: Cardoso (2008), 4: De Broyer et al., (2003), 5: Grosse et al., (1986), 6: Guerra- García et al., (2002), 7: de-la-Ossa-Carretero et al., (2012), 8: Guerra-García et al., (2014), 9: Mattson and Cedhagen (1989), 10: McCloskey (1970), 11: Meyer-Rochow et al., (1991), 12: Rodrigues and Pires-Vanin (2012), 13: Krapp-Schickel and Vader (2015), 14: Terrón-Sigler et al., (2016), 15: Thiel (1999), 16: Watling and Maurer (1972) and 17: Wongkamhaeng (2013).

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Appendix B: Average abundance and standard deviation of amphipod taxa at each station in Ulhas, Amba, Kundalika and Savitri estuaries across three different seasons.

Species	Premonsoon							Monsoon							Postmonsoon							
	U1	U2	U3	U4	U5	U6	U7	U1	U2	U3	U4	U5	U6	U7	U1	U2	U3	U4	U5	U6	U7	
<i>Americorophium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0
<i>Ampelisca abdita</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0
<i>Ampelisca aequicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Ampelisca diadema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0
<i>Ampelisca</i> sp.	0	13±14	0	0	0	0	0	0	13±14	0	0	0	0	0	0	0	6±13	0	0	0	0	0
<i>Ampelisca spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0
<i>Caprella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0
<i>Cerapus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56±113	0	0	0	0	0	0	0
<i>Corophidae</i> gen. sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Corophium</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	531±860	0	0	0	0	0	0	0
<i>Dexamine spinosa</i>	0	75±89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dulichia</i> sp.	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ericthonius brasiliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	431±347	0	0	0	0	0	0	0
<i>Ericthonius</i> sp.	0	0	25±50	0	13±14	0	0	0	0	0	0	0	0	0	31±63	0	0	0	0	0	0	0
<i>Gammarus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38±75	0	0	0	0	0	0	0
<i>Grandidierella</i> sp.	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lembos</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0
<i>Melita</i> sp.	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Microprotopus maculatus</i>	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	263±417	0	81±146	6±13	0	0	0	0
<i>Microprotopus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63±125	0	0	0	0	0	0	0
<i>Notopoma crassicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Photis longicaudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Photis</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63±125	0	6±13	0	0	0	0	0
<i>Platorchestia platensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25
<i>Podoceridae</i> gen. sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Podocerus brasiliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50±58	0	0	0
<i>Podocerus spongicolus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131±24	0	0	0
<i>Stenothoe gallensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31±47	0	0	0
<i>Stenothoe marina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0
<i>Stenothoe</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19±38	0	0	0
Total No. of Species	0	3	2	0	1	0	0	2	1	0	0	0	0	0	15	1	4	1	5	2	1	1

Species	Premonsoon									Monsoon									Postmonsoon								
	A1	A2	A3	A4	A5	A6	A7	A8	A9	A1	A2	A3	A4	A5	A6	A7	A8	A9	A1	A2	A3	A4	A5	A6	A7	A8	A9
<i>Allometita pellucida</i>	0	0	31±38	0	0	0	0	19±38	0	0	0	0	0	88±101	38±75	0	0	0	0	0	0	0	44±88	0	0	0	
<i>Ampelisca aequicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19±24	0	0	0	
<i>Ampelisca diadema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0	
<i>Ampelisca spinipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	
<i>Ampelisca typica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	13±14	0	0	0	0	0	0	
<i>Amphilochnus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50±100	0	0	0	
<i>Caprella</i> sp.	0	0	38±75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25±35	0	0	0	
<i>Cheiriphotis megacheles</i>	0	0	0	0	0	0	0	0	0	0	356±395	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	
<i>Cheiriphotis trifurcata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19±38	0	0	0	
<i>Ericthonius brasiliensis</i>	6±13	0	13±25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Eriopisa</i> sp.	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gammarus</i> sp.	0	0	13±25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	13±25	0	0	0	
<i>Gitanopsis gouriae</i>	0	0	13±25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gitanopsis</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Grandidierella bonnieroides</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	
<i>Grandidierella japonica</i>	0	0	0	0	0	0	0	69±138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Grandidierella megnae</i>	0	0	0	0	0	0	0	0	0	0	0	0	50±100	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Grandidierella</i> sp.	31±31	0	6±13	6±13	6±13	0	0	0	0	0	0	0	100±151	0	0	19±24	0	0	0	0	0	0	19±13	0	0	0	
<i>Idunella chilensis</i>	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lembos</i> sp.	0	0	0	0	0	0	25±50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lembos websteri</i>	0	0	0	0	0	0	0	0	0	0	0	0	38±75	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Melita dentata</i>	0	0	0	0	0	0	0	0	0	0	131±155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Melita</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	150±252	19±38	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Microdeutopus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	19±38	0	0	0	0	0	0	0	0	0	13±14	0	0	0	
<i>Microprotopus maculatus</i>	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132±160	0	0	0	
<i>Podoceridae</i> gen. sp.	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total No. of Species	4	0	6	1	1	0	1	4	0	0	2	0	0	7	1	0	1	0	3	1	0	0	1	10	0	0	1

Species	Premonsoon							Monsoon							Postmonsoon						
	K1	K2	K3	K4	K5	K6	K7	K1	K3	K4	K5	K6	K7	K1	K2	K3	K4	K5	K6	K7	
<i>Ampelisca abdita</i>	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ampelisca diadema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0
<i>Ampelisca</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38±75	0	0	0	0	0	0
<i>Ampelisca spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31±47	0	0	0	0	0	0
<i>Autonoe longipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0
<i>Caprella</i> sp.	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cheiriphotis megacheles</i>	0	0	0	19±38	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Corophium</i> sp.	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dyopedos</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0
<i>Erichthonius brasiliensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Gammarus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	19±38	0	0
<i>Isaeidae</i> gen. sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25±50	0	0	0	0	0
<i>Lembos</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0	0
<i>Microprotopus maculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Microprotopus</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Paramicrodeutopus schmitti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Photis longicaudata</i>	0	0	25±50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Podoceridae</i> gen. sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	0	0	0
<i>Pontogeneia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
Total No. of Species	0	0	2	2	0	0	0	0	1	0	0	0	1	1	2	9	1	1	1	1	0

Species	Premonsoon						Monsoon						Postmonsoon					
	S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6
<i>Allomelita pellucida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25±35	0	0	0
<i>Ampelisca aequicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Ampelisca scabripes</i>	13±25	19±38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ampelisca</i> sp.	0	0	6±13	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caprella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0
<i>Cheiriphotis megacheles</i>	38±75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cheiriphotis trifurcata</i>	0	0	0	0	0	0	0	0	0	0	0	0	63±72	0	0	0	0	0
<i>Gammaropsis</i> sp.	0	0	0	0	0	0	0	0	0	0	25±50	0	0	0	0	0	0	56±66
<i>Grandidierella japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0
<i>Grandidierella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	6±13	0
<i>Idunella chilensis</i>	0	0	0	0	19±38	0	0	0	0	0	0	0	0	0	0	0	69±66	63±72
<i>Idunella picta</i>	0	0	0	0	0	0	0	0	0	0	31±63	0	0	0	0	0	6±13	0
<i>Idunella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25
<i>Lembos</i> sp.	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0	0
<i>Melita</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44±59	0	0	0
<i>Microdeutopus</i> sp.	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0
<i>Microprotopus maculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	50±0	0	0	0	0	0
<i>Photis longicaudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0
<i>Photis</i> sp.	0	0	0	0	6	0	0	0	0	0	0	13±25	0	0	6±13	0	6±13	0
<i>Urothoe pulchella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0
<i>Urothoe</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	69±66	0	0	0	0
Total No. of Species	2	1	1	1	1	0	0	1	0	1	2	1	3	2	5	0	6	3

Species	Premonsoon						Monsoon						Postmonsoon					
	S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6	S1	S2	S3	S4	S5	S6
<i>Allomelita pellucida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25±35	0	0	0
<i>Ampelisca aequicornis</i>	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0
<i>Ampelisca scabripes</i>	13±25	19±38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ampelisca</i> sp.	0	0	6±13	6±13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Caprella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0
<i>Cheiriphotis megacheles</i>	38±75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cheiriphotis trifurcata</i>	0	0	0	0	0	0	0	0	0	0	0	0	63±72	0	0	0	0	0
<i>Gammaropsis</i> sp.	0	0	0	0	0	0	0	0	0	0	25±50	0	0	0	0	0	0	56±66
<i>Grandidierella japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0
<i>Grandidierella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6±13	0	6±13	0
<i>Idunella chilensis</i>	0	0	0	0	19±38	0	0	0	0	0	0	0	0	0	0	0	69±66	63±72
<i>Idunella picta</i>	0	0	0	0	0	0	0	0	0	0	31±63	0	0	0	0	0	6±13	0
<i>Idunella</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25
<i>Lembos</i> sp.	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0	0	0	0	0
<i>Melita</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44±59	0	0	0
<i>Microdeutopus</i> sp.	0	0	0	0	0	0	0	6±13	0	0	0	0	0	0	0	0	0	0
<i>Microprotopus maculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	50±0	0	0	0	0	0
<i>Photis longicaudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0
<i>Photis</i> sp.	0	0	0	0	6	0	0	0	0	0	0	13±25	0	0	6±13	0	6±13	0
<i>Urothoe pulchella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	13±25	0	0	0	0
<i>Urothoe</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	69±66	0	0	0	0
Total No. of Species	2	1	1	1	1	0	0	1	0	1	2	1	3	2	5	0	6	3

Appendix C: Amphipod diversity indices and species of Ulhas, Amba, Kundalika and Savitri estuaries during the three seasons. (S- total number of taxa, d- Margalef index, J' - Pielou's index, ES (50) - Hurlbert index, H' (log₂) - Shannon-Weiner index) and N- total number of individuals)

Seasons	Ulhas estuary							Species
	Stations	S	N	d	J'	ES (50)	H'(log ₂)	
Premonsoon	U1	0	0	0	0	0	0	-
	U2	3	94	0.74	0.57	2.99	0.91	<i>Ampelisca</i> sp., <i>Dexamine spinosa</i> , <i>Dulichia</i> sp.
	U3	2	31	0.62	0.71	2.0	0.71	<i>Erichthonius</i> sp., <i>Microprotopus maculatus</i>
	U4	0	0	0	0	0	0	-
	U5	1	13	0	0	1.0	0	<i>Erichthonius</i> sp.
	U6	0	0	0	0	0	0	-
	U7	0	0	0	0	0	0	-
Monsoon	U1	2	19	0.90	0.90	2.0	0.90	<i>Grandierella</i> sp., <i>Melita</i> sp.
	U2	1	13	0	0	1.0	0	<i>Ampelisca</i> sp.
	U3	0	0	0	0	0	0	-
	U4	0	0	0	0	0	0	-
	U5	0	0	0	0	0	0	-
	U6	0	0	0	0	0	0	-
	U7	0	0	0	0	0	0	-
Postmonsoon	U1	15	1553	2.54	0.67	9.05	2.67	<i>Americorophium</i> sp., <i>Ampelisca abdita</i> , <i>Ampelisca aequicornis</i> , <i>Cerapus</i> sp., <i>Corophidae</i> gen sp., <i>Corophium</i> sp., <i>Erichthonius brasiliensis</i> , <i>Erichthonius</i> sp., <i>Gammarus</i> sp., <i>Microprotopus maculatus</i> , <i>Microprotopus</i> sp., <i>Notopoma crassicornis</i> , <i>Photis longicaudata</i> , <i>Photis</i> sp., <i>Podoceridae</i> gen. sp.
	U2	1	6	0	0	1.0	0	<i>Ampelisca diadema</i>
	U3	4	99	1.90	0.49	3.96	0.97	<i>Ampelisca</i> sp., <i>Ampelisca spinifer</i> , <i>Microprotopus maculatus</i> , <i>Photis</i> sp.
	U4	1	6	0	0	1.0	0	<i>Microprotopus maculatus</i>
	U5	5	244	1.09	0.79	4.94	1.84	<i>Podocerus brasiliensis</i> , <i>Podocerus spongicolus</i> , <i>Stenothoe gallensis</i> , <i>Stenothoe marina</i> , <i>Stenothoe</i> sp.
	U6	2	12	1.53	1	2.0	1	<i>Caprella</i> sp., <i>Lembos</i> sp.
	U7	1	13	0	0	1.0	0	<i>Platorchestia platensis</i>

Appendix C (continued):

		Amba estuary							Species
Seasons	Stations	S	N	d	J'	ES (50)	H'(log2)		
	A1	4	49	1.46	0.77	4.0	1.53	<i>Erichonius brasiliensis</i> , <i>Grandidierella</i> sp., <i>Idunella chilkenis</i> , <i>Microprotopus maculatus</i>	
	A2	0	0	0	0	0	0	-	
	A3	6	114	1.72	0.90	5.97	2.33	<i>Allomelita pellicida</i> , <i>Erichonius brasiliensis</i> , <i>Gammarus</i> sp., <i>Gitanopsis gouriae</i> , <i>Grandidierella</i> sp.	
Premonsoon	A4	1	6	0	0	1.0	0	<i>Grandidierella</i> sp.	
	A5	1	6	0	0	1.0	0	<i>Grandidierella</i> sp.	
	A6	0	0	0	0	0	0	<i>Grandidierella</i> sp.	
	A7	1	25	0	0	1.0	0	-	
	A8	4	100	1.08	0.66	3.97	1.31	<i>Lembos</i> sp.	
	A9	0	0	0	0	0	0	<i>Allomelita pellicida</i> , <i>Eriopisa</i> sp., <i>Grandidierella japonica</i> , <i>Podoceridae</i> gen. sp.	
	A1	0	0	0	0	0	0	-	
	A2	2	487	0.23	0.84	2.0	0.84	-	
	A3	0	0	0	0	0	0	<i>Cheiriphotis megacheles</i> , <i>Melita dentata</i>	
A4	0	0	0	0	0	0	-		
Monsoon	A5	7	451	1.40	0.85	6.39	2.40	-	
	A6	2	57	0.45	0.92	2.0	0.92	<i>Allomelita pellicida</i> , <i>Gitanopsis</i> sp., <i>Grandidierella megnae</i> , <i>Grandidierella</i> sp., <i>Lembos websteri</i> , <i>Melita</i> sp., <i>Microdeutopus</i> sp.	
	A7	0	0	0	0	0	0	<i>Allomelita pellicida</i> , <i>Melita</i> sp.	
	A8	1	19	0	0	1.0	0	-	
	A9	0	0	0	0	0	0	<i>Grandidierella</i> sp.	
	A1	3	25	1.44	0.93	3.0	1.48	-	
	A2	1	13	0	0	1.0	0	<i>Ampelisca diadema</i> , <i>Ampelisca spinipes</i> , <i>Ampelisca typica</i>	
	A3	0	0	0	0	0	0	<i>Ampelisca typica</i>	
	A4	0	0	0	0	0	0	-	
A5	1	6	0	0	1.0	0	<i>Gammarus</i> sp.		
Postmonsoon	A6	10	347	2.24	0.84	9.46	2.81	<i>Allomelita pellicida</i> , <i>Ampelisca aequicornis</i> , <i>Amphilocheus</i> sp., <i>Caprella</i> sp., <i>Cheiriphotis megacheles</i> , <i>Cheiriphotis trifurcate</i> ,	
	A7	0	0	0	0	0	0	<i>Gammarus</i> sp., <i>Grandidierella</i> sp., <i>Microdeutopus</i> sp., <i>Microprotopus maculatus</i>	
	A8	0	0	0	0	0	0	-	
	A9	1	6	0	0	1.00	0	<i>Grandidierella bonnieroides</i>	

Appendix C (continued):

Seasons	Kundalika estuary							Species
	Stations	S	N	d	J'	ES (50)	H'(log2)	
Premonsoon	K1	0	0	0	0	0	0	-
	K2	0	0	0	0	0	0	-
	K3	2	31	0.62	0.71	2	0.71	<i>Ampelisca abdita</i> , <i>Photis longicaudata</i>
	K4	2	25	0.72	0.80	2	0.80	<i>Caprella</i> sp., <i>Cheiriphotis megacheles</i>
	K5	0	0	0	0	0	0	-
	K6	0	0	0	0	0	0	-
	K7	0	0	0	0	0	0	-
Monsoon	K1	0	0	0	0	0	0	-
	K3	1	6	0	0	1	0	<i>Corophium</i> sp.
	K4	0	0	0	0	0	0	-
	K5	0	0	0	0	0	0	-
	K6	0	0	0	0	0	0	-
	K7	1	9	0	0	1	0	<i>Dyopetos</i> sp.
	K1	1	13	0	0	1	0	<i>Ampelisca diadema</i>
K2	2	69	0.42	0.99	2	0.99	<i>Ampelisca</i> sp., <i>Ampelisca spinifer</i>	
Postmonsoon	K3	9	115	2.75	0.96	8.94	3.06	<i>Autonee longipes</i> , <i>Cheiriphotis megacheles</i> , <i>Erichthonius brasiliensis</i> , <i>Isaeidae</i> gen. sp., <i>Lembos</i> sp., <i>Microprotopus maculatus</i> , <i>Microprotopus</i> sp., <i>Paramicrodeutopus schmitti</i> , <i>Pontogeneia</i> sp.
	K4	1	6	0	0	1	0	<i>Podoceridae</i> gen. sp.
	K5	1	6	0	0	1	0	<i>Gammarus</i> sp.
	K6	1	19	0	0	1	0	<i>Gammarus</i> sp.
	K7	0	0	0	0	0	0	-

Appendix C (continued):

Seasons	Savitri estuary							Species
	Stations	S	N	d	J'	ES (50)	H'(log2)	
Premonsoon	S1	2	51	0.48	0.82	2	0.82	<i>Ampelisca scabripes</i> , <i>Cheiriphotis megacheles</i>
	S2	1	19	0	0	1	0	<i>Ampelisca scabripes</i>
	S3	1	6	0	0	1	0	<i>Ampelisca</i> sp.
	S4	1	6	0	0	1	0	<i>Ampelisca</i> sp.
	S5	2	25	0.72	0.80	2	0.80	<i>Idunella chilkenis</i> , <i>Photis</i> sp.
	S6	0	0	0	0	0	0	-
Monsoon	S1	0	0	0	0	0	0	-
	S2	1	6	0	0	1	0	<i>Microdeutopus</i> sp.
	S3	0	0	0	0	0	0	-
	S4	1	13	0	0	1	0	<i>Lembos</i> sp.
	S5	2	56	0.46	0.99	2	0.99	<i>Gammaropsis</i> sp., <i>Idunella picta</i>
	S6	1	13	0	0	1	0	<i>Photis</i> sp.
Postmonsoon	S1	3	126	0.67	0.86	3.0	1.37	<i>Ampelisca aequicornis</i> , <i>Cheiriphotis trifurcata</i> , <i>Microprotopus maculatus</i>
	S2	2	82	0.39	0.63	2.0	0.63	<i>Urothoe pulchella</i> , <i>Urothoe</i> sp.
	S3	5	94	1.48	0.83	4.98	1.92	<i>Allometita pellucida</i> , <i>Caprella</i> sp., <i>Grandidierella</i> sp., <i>Melita</i> sp., <i>Photis</i> sp.
	S4	0	0	0	0	0	0	-
	S5	6	105	1.77	0.653	5.91	1.69	<i>Grandidierella japonica</i> , <i>Grandidierella</i> sp., <i>Idunella chilkenis</i> , <i>Idunella picta</i> , <i>Photis longicaudata</i> , <i>Photis</i> sp.
	S6	3	132	0.66	0.86	3.0	1.36	<i>Gammaropsis</i> sp., <i>Idunella chilkenis</i> , <i>Idunella</i> sp.