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) "Habitat" "Biotope"
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GPS
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Costello,) (Karami Khaniki, 2004)
% %
: (2009
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(Costello, 2009) (Kitsiou & Coccossis, 2001)
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- (Connor *et al.*, 2004) -
(Madden *et al.*, 2009)
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(Costello & Emblow, 2004) (Askari, 2008)
(Izadi, 2008) (Amini Yekta, 2008)
(Moradi, 2008)
- (Ghiasnezhad, 2006)
(Rabiei *et al.*, 2005.)
(Shahraki, 2008)
()

60CX

GPS

Mapsource

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(Splash zone)

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(Vanzalling, 1997)

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N26° 56' 13.8" E56° 16' 37.2"

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N26° 55' 32.7" E56° 13' 49.0"

N26° 54' 38.9" E56° 10' 17.4"

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N26° 50' 11.2" E56° 07'

41.7

N26° 46' 38.7" E56° 04' 15.0"

N26° 45' 30.1" E56° 01' 56.7"

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N26° 44' 48.1" E56° 00' 44.0"

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N26° 41' 59.6" E55° 57'

37.6"

N26° 42' 29.4" E55° 55'

00.9"

N26° 40' 57.5" E55° 40'

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45.3"

N26° 36' 44.9" E55° 31'

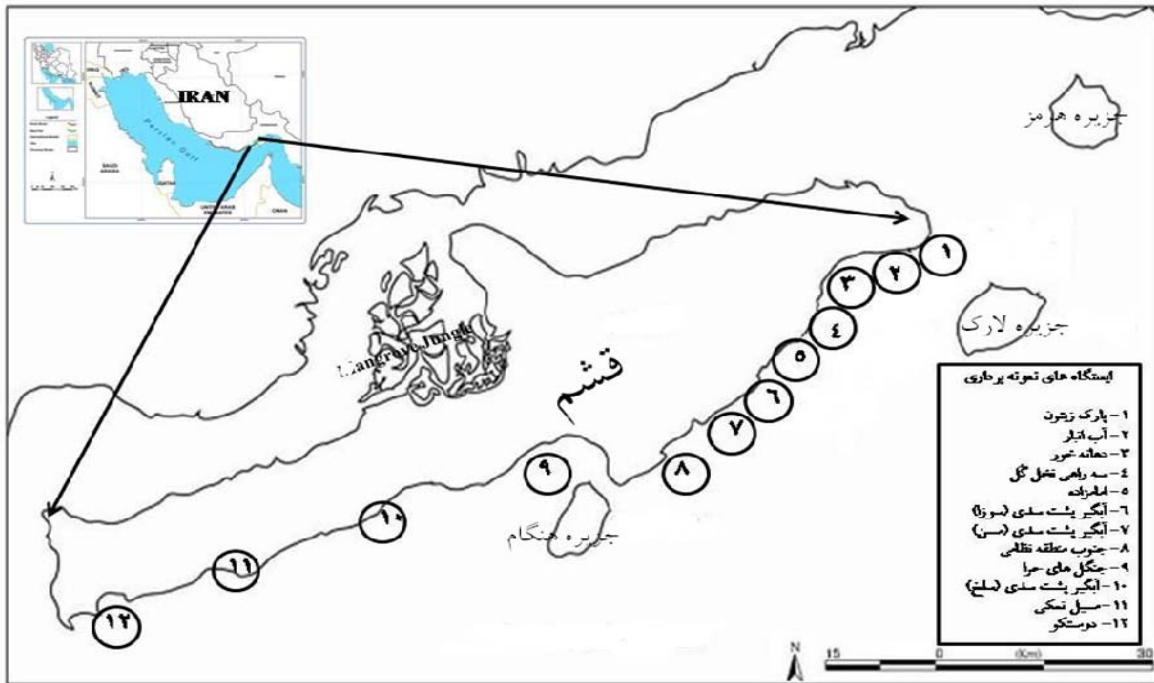
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34.8"

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N26° 34' 46.1" E55° 20'

21.3"



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(Madden *et al.*, 2009)

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Quddusi & Bosch *et al.*, 1995 Jones, 1986)

Hosseinzadeh Sahafi *et al.*, 2001 Feroz, 2006

(Gharanjik & Rouhani Ghadikolaee, 2010.

(Gobiidae)

✓	✓	✓	✓	<i>C. signatus</i>	<i>Clibanarius</i>	Diogenidae	Hermit Crabs	Crustacea
✓	✓	✓	✓	<i>O. rotundata</i>	<i>Ocypode</i>	Ocypodidae	Sand Crabs	
	✓	✓		<i>U. lactea</i>	<i>Uca</i>			
✓	✓	✓	✓	<i>D. sp.</i>	<i>Dotilla</i>	Dotillidae		
✓	✓	✓	✓	<i>T. prymna</i>	<i>Thalamita</i>	Portunidae	Rock Crabs	
✓				<i>T. crenata</i>				
✓				<i>T. sp.</i>				
✓	✓	✓	✓	<i>E. smithi</i>	<i>Eriphia</i>	Eriphidae		
	✓	✓	✓	<i>G. sp.</i>	<i>Grapsus</i>	Grapsidae		
✓	✓	✓	✓	<i>G. albolineatus</i>				
✓	✓			<i>G. granulatus</i>				
✓				<i>L. exaratus</i>	<i>Leptodius</i>	Xanthidae		
✓				<i>M. sp.</i>	<i>Macrophthalmus</i>	Ocypodidae		
✓	✓	✓	✓	<i>B. sp.</i>	<i>Balanus</i>	Balanidae	Barnacles	
✓	✓		✓	<i>P. sp.</i>	<i>Patella</i>	Patellidae		
✓	✓	✓	✓	<i>U. vestiarium</i>	<i>Umbonium</i>	Trochidae	Gastropods	Mollusks
✓			✓	<i>T. sp.</i>	<i>Trochus</i>			
✓				<i>O. kotschyi</i>	<i>Osilinus</i>			
✓	✓	✓		<i>T. sp.</i>	<i>Turbo</i>	Turbinidae		
✓	✓	✓	✓	<i>L. coronata</i>	<i>Lunella</i>			
✓		✓	✓	<i>N. longii</i>	<i>Nerita</i>	Neritidae		
✓	✓	✓	✓	<i>N. albicilla</i>				
✓				<i>N. adenensis</i>				
✓	✓	✓	✓	<i>P. sulcatus</i>	<i>Planaxis</i>	Planaxidae		
✓	✓	✓	✓	<i>C. cingulata</i>	<i>Cerithidea</i>	Potamididae		
✓			✓	<i>S. sp.</i>	<i>Strombus</i>	Strombidae		
✓	✓	✓	✓	<i>C. sp.</i>	<i>Cypraea</i>	Cypraeidae		

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✓	✓	✓	✓	<i>T. savignyi</i>	<i>Thais</i>	Thaididae				
✓				<i>T. tissoti</i>						
✓				<i>T. lacera</i>						
✓			✓	<i>B. echinata</i>	<i>Bufo</i>	Bursidae				
✓	✓	✓	✓	<i>C. konkanensis</i>	<i>Cronia</i>					
			✓	<i>S. roseomaculatus</i>	<i>Solen</i>	Solenidae				
✓	✓	✓	✓	<i>C. bifasciatus</i>	<i>Clypeomorus</i>	Cerithiidae				
✓	✓	✓	✓	<i>C. caeruleum</i>	<i>Cerithium</i>					
✓	✓	✓	✓	<i>M. granulata</i>	<i>Morula</i>	Muricidae				
✓	✓		✓	<i>M. anaxares</i>						
✓	✓		✓	<i>N. sp.</i>	<i>Nassarius</i>	Nassariidae				
✓	✓	✓	✓	<i>O. sp.</i>	<i>Oliva</i>	Olividae				
✓	✓	✓	✓	<i>C. sp.</i>	<i>Conus</i>	Conidae				
		✓	✓	<i>T. sp.</i>	<i>Turritella</i>	Turritellidae				
✓		✓		<i>S. sp.</i>	<i>Siphonaria</i>	Siphonariidae				
		✓	✓	<i>B. ampulla</i>	<i>Bulla</i>	Bullidae				
✓				<i>O. peroni</i>	<i>Onchidium</i>	Onchididae				
✓		✓	✓	<i>C. lamyi</i>	<i>Chiton</i>	Chitonidae				
✓				<i>A. fauroti</i>	<i>Anachis</i>	Columbellidae				
✓		✓	✓	<i>M. edulis</i>	<i>Mytilus</i>	Mytilidae				
✓				<i>B. decussata</i>	<i>Barbatia</i>	Arcidae				
✓				<i>A. umbonella</i>	<i>Amiantis</i>	Veneridae				
			✓	<i>C. umbonella</i>	<i>Callista</i>					
	✓	✓	✓	<i>S. cucullata</i>	<i>Saccostrea</i>	Osteridae				
		✓	✓	<i>H. arenicola</i>	<i>Holothuria</i>	Holothuriidae			Sea Cucumbers	Echinodermata
✓	✓	✓	✓	<i>H. leucospilota</i>						
✓	✓	✓	✓	<i>H. parva</i>						

✓				<i>D. setosum</i>	<i>Diadema</i>	Diadematidae	Sea Urchins	Echinodermata
✓	✓	✓	✓	<i>E. mathaei</i>	<i>Echinometra</i>	Echinometridae		
✓	✓	✓	✓	<i>O. sp.</i>	<i>Ophiactis</i>	Ophiactidae	Brittle stars	
✓	✓	✓	✓	<i>O. scolopendrina</i>	<i>Ophiocoma</i>	Ophiocomidae		
✓	✓			<i>L. multiflora</i>	<i>Linckia</i>	Ophidiasteridae	Sea Stars	
✓			✓	<i>A. sp.</i>	<i>Aquilonastra</i>	Asterinidae		
✓				<i>P. comperssa</i>	<i>Porites</i>	Poritidae	Coelenterate	
✓				<i>F. pallida</i>	<i>Favia</i>	Faviidae		
			✓	<i>A. sp.</i>	<i>Acanthastrea</i>	Mussidae		
✓	✓			<i>G. sp.</i>	<i>Gobius</i>	Gobiidae		Fishes

			✓	<i>L. stellata</i>	<i>Lyengaria</i>	Scytosiphonaceae	Phaeophyta
			✓	<i>C. sinuosa</i>	<i>Copomenia</i>		
✓				<i>P. australis</i>	<i>Padina</i>	Dictyotaceae	
✓			✓	<i>P. sp.</i>			
✓				<i>D. bartaresiana</i>	<i>Dictyota</i>		
			✓	<i>D. cervicornis</i>			
✓				<i>S. angustifolium</i>	<i>Sargassum</i>	Sargassaceae	
✓				<i>A. fragilis</i>	<i>Actinotrichia</i>	Galaxauraceae	
✓	✓	✓	✓	<i>A. marina</i>	<i>Avicennia</i>	Avicenniaceae	Mangrove

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SR4				SR3				SR2				SR1					
S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	S1						
	✓											<i>C. sp.</i>	<i>Coenobita</i>	Coenobitidae	Hermit Crabs	Crustacea	
	✓		✓	✓	✓		✓	✓	✓	✓	✓	<i>C. signatus</i>	<i>Clibanarius</i>	Diogenidae			
	✓	✓	✓		✓				✓	✓	✓	<i>O. rotundata</i>	<i>Ocypode</i>	Ocypodidae	Sand Crabs		
			✓									<i>U. lactea</i>	<i>Uca</i>				
	✓	✓	✓						✓		✓	<i>D. sp.</i>	<i>Dotilla</i>	Dotillidae			
				✓			✓			✓	✓	<i>T. prymna</i>	<i>Thalamita</i>	Portunidae	Rock Crabs		
				✓							✓	<i>T. crenata</i>					
											✓	<i>T. sp.</i>					
✓												<i>S. serrata</i>	<i>Scylla</i>				
				✓	✓		✓	✓	✓	✓	✓	<i>E. smithi</i>	<i>Eriphia</i>	Eriphidae			
				✓	✓	✓	✓	✓	✓	✓	✓	<i>G. sp.</i>	<i>Grapsus</i>	Grapsidae			
				✓		✓	✓	✓	✓	✓	✓	<i>G. albolineatus</i>					
				✓							✓	<i>G. granulatus</i>					
											✓	<i>L. exaratus</i>	<i>Leptodius</i>	Xanthidae			
	✓						✓					<i>M. sp.</i>	<i>Macrophthalmus</i>	Ocypodidae			
	✓							✓				<i>B. sp.</i>	<i>Balanus</i>	Balanidae	Barnacles		
				✓		✓		✓		✓		<i>P. sp.</i>	<i>Patella</i>	Patellidae			
	✓	✓	✓	✓	✓			✓	✓			<i>U. vestiarium</i>	<i>Umbonium</i>	Trochidae	Gastropods	Mollusks	
✓	✓									✓	✓	<i>T. sp.</i>	<i>Trochus</i>				
✓												<i>O. kotschyi</i>	<i>Osilinus</i>				
				✓			✓			✓	✓	<i>T. sp.</i>	<i>Turbo</i>	Turbinidae			
	✓			✓	✓		✓			✓	✓	<i>L. coronata</i>	<i>Lunella</i>				
				✓			✓	✓		✓	✓	<i>N. longii</i>	<i>Nerita</i>	Neritidae			
	✓	✓		✓			✓	✓		✓	✓	<i>N. albicilla</i>					
✓												<i>N. adenensis</i>					
	✓			✓			✓			✓	✓	<i>P. sulcatus</i>	<i>Planaxis</i>	Planaxidae			
✓	✓		✓		✓				✓		✓	<i>C. cingulata</i>	<i>Cerithidea</i>	Potamididae			

					✓	✓		✓	✓		✓	S. sp.	<i>Strombus</i>	Strombidae		
	✓					✓		✓	✓	✓	✓	C. sp.	<i>Cypraea</i>	Cypraeidae		
				✓	✓	✓	✓				✓	<i>T. savignyi</i>	<i>Thais</i>	Thaididae		
												<i>T. tissoti</i>				
												<i>T. lacera</i>				
✓												<i>B. echinata</i>	<i>Bufo</i>	Bursidae		
				✓			✓	✓		✓	✓	<i>C. konkanensis</i>	<i>Cronia</i>			
✓												<i>S. roseomaculatus</i>	<i>Solen</i>	Solenidae		
	✓			✓				✓			✓	<i>C. bifasciatus</i>	<i>Clypeomorus</i>	Cerithiidae		
				✓	✓		✓			✓	✓	<i>C. caeruleum</i>	<i>Cerithium</i>			
				✓	✓		✓	✓	✓	✓	✓	<i>M. granulata</i>	<i>Morula</i>	Muricidae		
						✓	✓			✓	✓	<i>M. anaxares</i>				
	✓				✓	✓		✓			✓	N. sp.	<i>Nassarius</i>	Nassariidae		
			✓		✓	✓		✓	✓	✓	✓	O. sp.	<i>Oliva</i>	Olividae		
			✓		✓			✓	✓	✓	✓	C. sp.	<i>Conus</i>	Conidae		
		✓	✓					✓	✓		✓	T. sp.	<i>Turritella</i>	Turritellidae		
						✓						S. sp.	<i>Siphonaria</i>	Siphonariidae		
			✓									<i>B. ampulla</i>	<i>Bulla</i>	Bullidae		
											✓	<i>O. peroni</i>	<i>Onchidium</i>	Onchididae		
										✓	✓	<i>C. lamyi</i>	<i>Chiton</i>	Chitonidae		
											✓	<i>A. fauroti</i>	<i>Anachis</i>	Columbellidae		
											✓	<i>M. edulis</i>	<i>Mytilus</i>	Mytilidae		
✓												<i>B. decussata</i>	<i>Barbatia</i>	Arcidae	Bivalves	
✓												<i>A. umbonella</i>	<i>Amiantis</i>	Veneridae		
✓												<i>C. umbonella</i>	<i>Callista</i>			
✓											✓	<i>S. cucullata</i>	<i>Saccostrea</i>	Osteridae		

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							✓				✓	<i>H. arenicola</i>	<i>Holothuria</i>	Holothuriidae	Sea Cucumbers	Echinoder mata
			✓				✓			✓	✓	<i>H. leucospilota</i>				
			✓				✓			✓		<i>H. parva</i>				
			✓				✓			✓		<i>D. setosum</i>	<i>Diadema</i>	Diadematidae	Sea Urchins	
			✓				✓			✓	✓	<i>E. mathaei</i>	<i>Echinometra</i>	Echinometridae		
			✓				✓			✓	✓	<i>O. sp.</i>	<i>Ophiactis</i>	Ophiactidae	Brittle stars	
			✓				✓			✓		<i>O. scolopendrina</i>	<i>Ophiocoma</i>	Ophiocomidae		
			✓				✓			✓		<i>L. multiflora</i>	<i>Linckia</i>	Ophidiasteridae	Sea Stars	
											✓	<i>A. sp.</i>	<i>Aquilonastra</i>	Asterinidae		
											✓	<i>P. Comperssa</i>	<i>Porites</i>	Poritidae	Coelenterate	
											✓	<i>F. pallida</i>	<i>Favia</i>	Faviidae		
			✓								✓	<i>A. sp.</i>	<i>Acanthastrea</i>	Mussidae		
			✓				✓			✓	✓	<i>G. sp.</i>	<i>Gobius</i>	Gobiidae	Fishes	

SR4					SR3			SR2			*SR1				
S12	S11	S10	S9	S8	S7	S6	S5	S4	S3	S2	**S1				
								✓		✓		<i>L. stellata</i>	<i>Lyengaria</i>	Scytosiphonaceae	
							✓					<i>C. sinuosa</i>	<i>Copomenia</i>		
✓												<i>P. australis</i>	<i>Padina</i>	Dictyotaceae	Phaeophyta
					✓				✓			<i>P. sp.</i>			
✓												<i>D. bartaresiana</i>	<i>Dictyota</i>		
									✓			<i>D. cervicornis</i>			
✓												<i>S. angustifolium</i>	<i>Sargassum</i>	Sargassaceae	
				✓								<i>A. fragilis</i>	<i>Actinotrichia</i>	Galaxauraceae	Rhodophyta
			✓									<i>A. marina</i>	<i>Avicennia</i>	Avicenniaceae	Mangrove

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(*Avicennia marina*)

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Padina sp.

<i>Eriphia smithi</i> <i>Clibanarius signatus</i> <i>Thalamita prymna</i> <i>Ocypode rotundata</i> <i>Dotilla</i> sp.					
<i>Planaxis sulcatus</i> <i>Lunella coronata</i>					
<i>Ophiactis</i> sp. <i>Echinometra mathaei</i>					
<i>Gobius</i> sp.					
<i>Mytilus edulis</i> <i>Saccostrea cucullata</i> <i>Chiton lamyi</i>		<%	%		
*1 Leptoplanidae, Pseudocerotidae Prothiostomidae					
*2 <i>Dictyota friabilis</i> <i>Padina boergesenii</i> <i>Acanthophora spiscifera</i>					
<i>Eriphia smithi</i> <i>Clibanarius signatus</i> <i>Thalamita prymna</i> <i>Lunella coronata</i> <i>Cerithium caeruleum</i> <i>Clypeomorus bifasciatus</i> <i>Holothuria parva</i> <i>Ophiocoma scolopendrina</i> <i>Echinometra mathaei</i>		<%			
<i>Gobius</i> sp.					
*2 <i>Chiton lamyi</i> <i>Acanthopleura haddoni</i>					
*2 <i>Dictyosphaerina covernosa</i> <i>Padina boergesenii</i> ** <i>Lyengaria stellata</i>) (
<i>Grapsus albolineatus</i> <i>Clibanarius signatus</i> , <i>Ocypode rotundata</i> , <i>Dotilla</i> sp.					
<i>Balanus</i> sp.		<%	%		
<i>Umbonium vestiarium</i>					
<i>Padina</i> sp., <i>Dictyota</i> <i>cervicornis</i>					

(Ghiasnezhad, 2006)* (Khalili *et al.*, 2009)* :

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(Ghiasnezhad, 2006)

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** <i>Eriphia smithi</i> <i>Clibanarius signatus</i> <i>Grapsus albolineatus</i> *5 <i>Ocypode rotundata</i> , <i>scopimera crabicauda</i>						
<i>Patella</i> sp.						
*3 <i>Lunella coronata</i> , <i>Planaxis sulcatus</i> , ** <i>Umbonium</i> <i>vestiarium</i> * <i>Cerithidea cingulata</i> <i>Mitrella blanda</i>		>%	% >			
*4 <i>Ophiocoma</i> <i>scolopendrina</i> <i>Holothuria arenicola</i> <i>Diadema setosum</i> *4 <i>Astropecten</i> <i>hemprichi</i> <i>Astropecten indicus</i>						
<i>Lyengaria stellata</i>						
<i>Eriphia smithi</i> <i>Clibanarius signatus</i> <i>Thalamita prymna</i>						
<i>Cerithium caeruleum</i> <i>Lunella coronata</i> <i>Thais savignyi</i>		>%				
<i>Ophiactis</i> sp. <i>Ophiocoma</i> <i>scolopendrina</i> <i>Echinometra mathaei</i>						
<i>Gobius</i> sp.						
<i>Colpomenia sinuosa</i>						
<i>Grapsus albolineatus</i>		<%	% <		()	
<i>Thais savignyi</i>						
<i>Siphonaria</i> sp.						
<i>Grapsus</i> sp. <i>Clibanarius signatus</i>						
<i>Thais savignyi</i> <i>Cerithium caeruleum</i> <i>Morula granulata</i>		>%	% <		()	
<i>Padina</i> sp.						

<i>Eriphia smithi</i>						
<i>Clibanarius signatus</i>						
<i>Thalamita prymna</i>						
<i>Planaxis sulcatus</i>						
<i>Cerithium caeruleum</i>						
<i>Thais savignyi</i>						
<i>Holothuria leucospilota</i>		>%				
<i>Ophiactis</i> sp.						
<i>Echinometra mathaei</i>						
<i>Gobius</i> sp.						
<i>Actinotrichia fragilis</i>						

(Askari, 2008)* (Izadi, 2008)* (Amini Yekta, 2008)* :

(Askari, 2008) (Amini Yekta, 2008) **

<i>Ocypode rotundata</i>						
<i>Dotilla</i> sp.						
<i>Uca lacteal</i>						
<i>Umbonium vestiarium</i>						
<i>Cerithidea cingulata</i>						
*2 <i>Sargassum ilicifolium</i>)	>%	% <			
<i>Padina boergesenii</i>	(
<i>Hypnea</i> sp.						
<i>Avicennia marina</i> Tidal Mangrove Forest						
*1 Leptoplanidae, Pseudocerotidae Prothiostomidae						
<i>Ocypode rotundata</i>						
<i>Dotilla</i> sp.						
<i>Umbonium vestiarium</i>						
*2 <i>Dictyosphaerina covernosa</i>		>%	% <		()	
<i>Enteromorpha</i> sp						
<i>Padina boergesenii</i>						
*1 Leptoplanidae						
<i>Clibanarius signatus</i>						
<i>Lunella coronata</i>						
<i>Clypeomorus bifisciatus</i>						
*1 Leptoplanidae		>%	% <			
<i>Ocypode rotundata</i>						
<i>Dotilla</i> sp.						

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<i>Saccostrea cucullata</i>						
<i>Barbatia decussata</i>						
*1 Leptoplanidae						
<i>Purtunus pelagicus</i>						
<i>Scylla serrata</i>						
<i>Cerithidea cingulata</i>		>%	% >			
<i>Amiantis umbonella</i>						
<i>Dictyota bartaresiana</i>						
<i>Sargassum angustifolium</i>						
<i>Padina australis</i>						

(Ghiasnezhad, 2006)* (Khalili *et al.*, 2009)* :

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Tait &)

(Dipper, 1998

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Intertidal Species Diversity of Southern Coastline of Qeshm Island, Based on Dominant Biotope

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Abstract

Ecological classification of the coastal zone, have recently been using the “biotope” as a unit. Lexically “biotope” is synonymous with habitat, but with different ecological concepts. Various biotopes in 122 km intertidal stretch of the southern coasts of the Qeshm Island (Qeshm city in east to Dustaku village in west) in four seasons were identified and mapped out (2009-2010). Considering the extent and geomorphology of the covered area (sandy, rocky and rocky-sandy), 12 stations within four sub-regions were designated, using GPS. The work was carried out through monitoring, photography and sampling of biotic communities, using quadrat method and sediment sampling for particle size and total organic matter. Totally 60 major biotopes in 10 biotic groups were identified, of which more than 65% were located in rocky and rocky-sandy coast (mid-eastern) and the rest in sandy coast (mid-western). These results can be used in management approaches, because biotopes as distinctive and repeatable communities might be considered as indicators of change due to various pressures.

Keywords: Biotope, Biotic group, Substrate, Qeshm island