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CENTRAL MARINE FISHERIES RESEARCH INSTITUTE



CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
Post Box No. 1603, Ernakulam North P.O.
Cochin - 682 018, Kerala, India



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**V. Edwin Joseph
V. Mohan
R. Manjeesh**



CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
(Indian Council of Agricultural Research)
Post Box No.1603, Ernakulam North P.O.
Cochin - 682 018, Kerala, India

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Dr. N. G. K. Pillai

Director

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Foreword

Central Marine Fisheries Research Institute (CMFRI) has been documenting bibliographies on various topics. The Institute has published over a dozen such bibliographies on various finfishes and shellfishes. Three bibliographies were published during 1986, 1992, 1998 listing the publications of the staff of CMFRI from 1948 to 1995. Since then, tremendous data was generated from both inhouse and sponsored projects, leading to a good number of research publications in national and international journals. A sincere effort has been made in the present endeavour incorporating all the publications of the staff from 1996-2006. A total of 2039 titles have been listed in the Bibliography Part IV including 25 titles pertaining to period prior to 1995 which could not find a place in the earlier bibliography.

I hope this bibliography will serve as a ready source of reference for the students and researchers working in this field. I appreciate the interest taken and efforts made by Shri. V. Edwin Joseph, Shri. V. Mohan and Shri. R. Manjeesh for preparing this bibliography.



Dr. N. G. K. Pillai

Director

Cochin - 18
January 2008

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Cownose Ray	6561	<i>Decapterus russelli</i>	4815, 5570, 6253, 6302
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Dietary starch	5111	Edible oyster culture	4965, 4966, 5217, 5323, 6151
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Minke whale	5578	Mussel culture	4645, 4733, 4804, 4958, 5137, 5194, 5250, 5283, 5405, 5524, 5537, 5584, 5680, 5702, 5788, 5792, 6128, 6137, 6151, 6154, 6160, 6268, 6270, 6371, 6372, 6390
<i>Mobula diabolus</i>	4932	<i>Mycobacterium</i> spp.	5447
<i>Mobula hypostoma</i>	4814	,Mysid	5331, 5732, 6259
Moina	4925	<i>Mytilus edulis</i>	4643, 4792
<i>Mola mola</i>	4944, 6559	NATP	5646, 5647, 6056, 6061, 6191
<i>Mola ramsayi</i>	6501	NATP-IVLP	6077, 6078, 6079
Molluscan culture	4666, 5399	Natural pearl production	6373
Molluscs	4547, 4570, 4571, 4572, 4623, 4624, 4636, 4645, 4646, 4666, 4676, 4681, 4682, 4714, 4715, 4717, 4718, 4733, 4795, 4797, 4804, 4817, 4850, 4852, 4884, 4886, 5164, 5384, 5390, 5399, 5669, 5918, 6129, 6153, 6205, 6256, 6487	<i>Nemipterus japonicus</i>	5074, 5644, 5834, 6003
Monoculture	5997	<i>Nemipterus mesoprion</i>	4711, 5438, 5907, 6214
<i>Monodon baculovirus</i>	5147	<i>Nemipterus</i> spp.	5951
Moontail seabass	6232	<i>Neophocaena phocaenoides</i>	5237, 5434, 5567, 5579, 5710, 5711, 5747, 5916
Morphological changes	4999	<i>Neopomacentrus cyanomos</i>	6111
Morphometric studies	4622, 5021, 5438, 5964, 5984, 6431	<i>Nephropsis stewarti</i>	6186
Mortality	4599, 4664, 4721, 4738, 4764, 4765, 4766, 4822, 4848, 5034, 5150, 5152, 5350, 5601, 5725, 6015, 6072, 6115, 6331, 6515	<i>Nibea maculata</i>	4674, 4781
Mud crab	4651, 4823, 5079, 5144, 5299, 5572, 5587, 6481	Nitrogen fixation	4558, 4686, 4976, 5488, 6344,
		Nitrogenous wastes	5488

Non-edible marine animals	6313	<i>Otolithoides biauritus</i>	5376, 5513, 5731, 5894, 5924, 5925, 5947
Non-penaeid prawns	5714	Oyster	4718, 4817, 5130, 5240, 5417, 5546, 5584, 5990, 6125, 6434, 6451, 6462, 6567
Nursery ponds	4647	Oyster culture	4965, 5053, 5217, 5323, 5520, 5704, 5792, 5991, 6151, 6284
Nursery rearing	4546, 4647, 5519	Paddy-cum-fish culture	5257
Nutrition	5062, 5477, 5487, 5527, 5563, 5675, 5715, 5766, 5767, 5768, 5945, 6206, 6427, 6571	Palaemonid prawns	5598
Nuvan	6553	Pane oysters	5417
Oceanic skipjack	5673, 6354	<i>Panulirus homarus</i>	5000, 5213, 5689
Oceanic squid	4676, 5950, 6489	<i>Panulirus polyphagus</i>	4900, 5274, 6542
Octopus	5057, 5285, 6119	<i>Panulirus versicolor</i>	5568
Oil sardine	4548, 4573, 4574, 4760, 5018, 5036, 5249, 5269, 5482, 5486, 5564, 5762, 5818, 5823, 5824, 6420	<i>Paphia malabarica</i>	4549, 5003, 5081, 5889, 5935, 6463, 6464
Oil spill	4656	<i>Parapenaeopsis maxillipedo</i>	5381
Olive ridley	4605, 4791, 4930, 5175, 5176, 5654	<i>Parapenaeopsis stylifera</i>	4899, 5044, 5265, 5663, 6184
<i>Oreochromis mossambicus</i>	5774, 5869	<i>Parapenaeus (Fissuroides) indicus</i>	5931
Organic bivalve farming	6234	<i>Parapenaeus longipes</i>	4550, 6326
Organic farming	6122	Parasites	4905, 6316, 6360, 6513
Ornamental fish	4775, 5118, 5466, 5473, 5612, 5613, 5936, 5961, 6195, 6442, 6568	Parkawala fishery	6051
Ornamental fish culture	4775, 4910, 5140, 6442	Parthenogenetic artemia	5493
Ornamental fisheries	4673, 4910, 4963, 5219, 5703, 5742, 5790, 6019, 6427, 6428, 6474	Pathogens	5181, 5591, 5655
Ornamental fish trade	4910	Poultry farming	6033
<i>Oscillatoria</i> sp.	5280	PCR Kit	6126
Ostracoda	4657	Pearl	4714, 4749, 5009, 5377, 5686, 5914, 6267, 6415
Ostracods	5316	Pearl culture	4714, 4866, 5049, 5052, 5209, 5377, 5386, 5389, 5415, 5427, 5464, 5499, 5520, 5547, 5651, 5717, 5718, 5914, 6179, 6151, 6152, 6178, 6179, 6267, 6320, 6322, 6369, 6373, 6376, 6377, 6379
<i>Otolithes cuvieri</i>	5355, 5773, 6173		

Pearl oyster	4747, 4749, 4850, 4851, 4885, 4886, 5099, 5240, 5519, 6043, 6117, 6180, 6271, 6320, 6378, 6463, 6488	<i>Perna indica</i>	5004, 5137, 5498, 5648
		<i>Perna viridis</i>	5137, 5420, 5649, 5788, 6465, 6467, 6513, 6537
Pearl Oyster beds	6378		
Pearl oyster hatchery	4747, 4886	Photoperiodicity	5506
Pearl oyster seeds	6180	Photosynthesis	4915, 5361, 5501, 5475, 6065, 5668,
Pearl-sac theory	6373	Phyllosoma larvae	5897
Pelagic fish	5068, 5155, 5343	<i>Physeter macrocephalus</i>	5580, 5618, 6418
Pelagic Fisheries	4735, 4876, 4880, 4984, 5032, 5327, 5165, 5335, 5339, 5344, 5379, 5395, 6039, 6509, 6510	Phytoplankton	4736, 4897, 5255, 5866, 5939, 6199, 6266,
Pelagic sharks	5338	<i>Pinctada chemnitzii</i>	4850
Pelagic shrimp	5986	<i>Pinctada fucata</i>	4747, 4851, 4884, 5049, 5099, 5100, 5519, 5520, 6043, 6117, 6271, 6434, 6463, 6488
Penaeid prawn	4644, 4649, 4746, 4847, 5042, 5146, 5206, 5207, 5208, 5309, 5381, 5412, 5719, 5809, 6176, 6243, 6261, 6471	<i>Placuna placenta</i>	5546, 5930
<i>Penaeus indicus</i>	4586, 4648, 4710, 4719, 4767, 4768, 4769, 4898, 4941, 4947, 5013, 5103, 5110, 5111, 5142, 5212, 5247, 5254, 5294, 5336, 5353, 5430, 5453, 5770, 5775, 5999, 6127	Plankton	4657, 4712, 4728, 5190, 5317, 6386, 6506
<i>Penaeus japonicus</i>	4551, 5045	Planktonic shrimps	6189
<i>Penaeus juveniles</i>	6319	Ploidy manipulation	6365
<i>Penaeus merguensis</i>	4606, 5507, 5670	<i>Podophthalmus vigil</i>	5511
<i>Penaeus monodon</i>	4546, 4594, 5076, 5357, 5452, 6314, 6349	<i>Poecilosclerida topsent</i>	4846
<i>Penaeus semisulcatus</i>	4561, 4647, 4722, 4887, 5346, 5557, 6023	Pollution threat	5534
<i>Pennahia anea</i>	4781	Polychaetes	5480, 6241
<i>Pennahia macrophthalmus</i>	4583	Polyculture	4968, 5426, 5729, 5996
<i>Pentacaster regulus</i>	5429	Polynemid fishery	5196
Perch fisheries	4602, 4617	Pomfret	5313, 5322, 5667, 5881, 5967, 6396
Perches	4584, 5259, 5724, 6330	Population dynamics	4599, 4603, 4604, 4794, 4871, 5081, 5151, 5268, 5663, 5834, 5835, 6053, 6054, 6214, 6520, 6558
		Population parameters	4781

Porpoise	5237, 5710, 5747	<i>Pseudorca crassidens</i>	5619
Portunid crabs	4738, 4836, 4837, 4838, 4840, 5199, 5511, 6364, 6565	Puffer fish	6351
<i>Portunus gracilimanus</i>	6183	Queen fish	6517
<i>Portunus pelagicus</i>	4621, 4737, 4738, 4811, 4836, 4837, 4838, 4839, 5041, 5199, 5569, 5972	<i>Rachycentron canadum</i>	5948, 5982
<i>Portunus sanguinolentus</i>	4737, 4738, 4836, 4837, 4838, 4839, 5041, 5199, 6262	<i>Rastrelliger kanagurta</i>	4748, 5120, 5570, 5964, 6042, 6116, 6398, 6550
Prawn	4550, 4561, 4586, 4594, 4606, 4649, 4688, 4713, 4719, 4940, 4767, 4768, 4769, 4855, 4899, 5006, 5042, 5044, 5110, 5115, 5145, 5179, 5180, 5212, 5266, 5300, 5382, 5412, 5457, 5470, 5471, 5517, 5598, 5681, 5714, 5831, 6023, 6127, 6348	Rays	5143, 5354, 5832
Prawn culture	4713, 4855, 5115, 5166, 5223, 5266, 5345, 5410, 5517, 6007	Rearing	4612, 5078, 5079, 5087, 5235, 5293, 5733, 5787, 6028, 6033, 6251
<i>Priacanthus hamrur</i>	4584, 5510, 6546	Red alga	5362, 5758, 6215
Price behaviour/structure	5559, 6292	Red crab	6351
Primary production	4728, 4916, 5256, 5276, 5373, 6346, 6536	Reef fishes	6132
<i>Pristigenys nipponia</i>	6533	Reef forest	5476
<i>Pristipomoides filamentosus</i>	5694	Reproduction	4552, 4820, 4837, 4857, 5041, 5131, 5182, 5225, 5468, 5506, 5659, 5687, 5709, 6027, 6066, 6108, 6111, 6156,
<i>Pristis microdon</i>	5970, 6185	Reptiles	6168
Probiotics	4939, 5088, 5296, 5297, 5523, 5603, 5700, 5816, 5882, 6266	Responsible fisheries	5646, 5647, 6036, 6040, 6057, 6059, 6060, 6105
Propeller	4641	<i>Rhincodon typus</i>	4639, 4928, 4994, 5442, 5705, 5721, 5772, 5919, 6459, 6516
<i>Prostilifer</i> sp.	4905	<i>Rhineodon typus</i>	4638, 4706, 4742, 4931, 5012, 5581, 5583, 6064, 6208, 6548, 6562
Protein requirement	5086, 5134, 5421, 5557, 5770, 5999, 6124, 6146	Ribbonfish	4678, 5011, 5808, 6399, 6491
<i>Protonibea dicanthus</i>	5713	Rice fish culture	5940
Protozoa	4561	Ring Vala	6409
<i>Psenopsis cyanea</i>	5075	Risso's dolphins	5229, 5383
		River flowage	5440
		Rock boring	6445

Rock cods	4849	Scombroid fish	4784, 5104, 5167, 5168, 5551, 5599, 5626, 5627, 5628
Rock lobster	6542	<i>Scylla serrata</i>	4557, 4823
Rock oyster	5131	<i>Scylla tranquebarica</i>	5587
<i>Rostroraja alba</i>	6532	Scyllarid lobsters	5966
Rotifer	4925, 5178, 5474, 5722, 5800, 6022, 6400, 6503	<i>Scyllarus sordidus</i>	4712
Sacred chank	4646, 6182	Sea court	6524
Salinities	4558, 4653, 4727, 5003, 5184, 5206, 5207, 5282, 5421, 5496, 5937, 5670, 6158, 6462	Sea cucumber	4608, 4610, 4611, 4780, 4903, 5113, 5263, 5403, 5428, 5535, 5953, 5954, 5957, 6155, 6156, 6157, 6158, 6405, 6435, 6436, 6438
Salt pans	5002, 5177, 5493, 6108	Sea cucumber culture	4608, 4609, 4611, 4903, 5115, 5958
Sand crabs	6244	Sea cucumber identification	6437
Sand lobster	4623, 4624, 5965, 6123, 6446, 6447	Sea cucumber industry	5955
Sardine	4574, 4826, 5344, 5762, 5820, 5823, 5824, 5836, 6211, 6420	Sea erosion	5138
<i>Sardinella longiceps</i>	4826, 5762, 5823, 6420	Sea farming	4937, 5097, 6528
<i>Sargassum</i> spp.	4630	Sea level changes	5138, 5564
<i>Saurida undosquamis</i>	5195, 5835	Sea turtles	4930, 5350, 5351, 5642, 5643, 6131, 6225, 6309, 6515
Saw fish	5119, 5594, 5970	Sea urchin	5272, 6445
Sciaenid fishery	4583, 4674, 4755, 5799, 5880, 6054, 6130	Sea-anemones	6204
Scleractinian corals	4560, 5805	Seabass	4883, 4934, 4935, 5134, 5135, 5157, 5298, 6431
<i>Scoliodon laticaudus</i>	4794, 4871	Seacow	5210, 5229, 5238, 6055,
<i>Scomber japonicus</i>	5104	Sea farming	4614, 4615, 5413
<i>Scomberoides commersonianus</i>	6517	Seafood safety	5850
<i>Scomberomorus commerson</i>	4696, 4872, 5947	Seagrass	4629, 4842, 4915, 5235, 5592, 5726, 6124, 6407
<i>Scomberomorus guttatus</i>	4874	Seagrass beds	6381
<i>Scomberomorus lineolatus</i>	4873	Seahorse	5078, 5709, 6334

Sea-ranching	5293	<i>Sepia aculeata</i>	4818, 5910, 6557
Seasonal variation	4653, 5185, 5342, 5360, 5575, 5657, 5751, 5866, 6405,	<i>Sepia pharaonis</i>	5743, 5910, 6118, 6148
		<i>Sepia prashadi</i>	6121, 6557
Seawater	5100, 5121, 5260, 5278, 5753, 6407, 6578	<i>Sepiella inermis</i>	5092, 5198, 6361
Seaweed	4564, 4590, 4626, 4627, 4629, 4631, 4716, 4786, 4787, 4828, 4868, 4919, 4920, 4923, 5089, 5128, 5174, 5241, 5261, 5277, 5279, 5282, 5441, 5488, 5500, 5575, 5656, 5755, 5840, 5977, 5979, 5981, 5976, 5978, 6065, 6067, 6091, 6222, 6277, 6343, 6344, 6400, 6407, 6452, 6455, 6530, 6573	Sergestid shrimps	5893, 6228
		Serum proteins	5869
		Sex ratio	4837, 5830, 6550
		Sex reversal	5497
Seaweed culture	4589, 4590, 4628, 4917, 4918, 5107, 5121, 5174, 5278, 5573, 5841, 5977, 6223, 6456, 6457	Sexual maturity	4737
Seaweed exploitation	4787, 5356, 6091	Shark	4591, 4599, 4635, 4772, 4994, 5007, 5338, 5581, 5583, 5593, 5705, 5721, 5733, 5759, 5760, 5843, 5919, 5971, 6005, 6095, 6208, 6315, 6459, 6516, 6548
Seaweed extracts	5655	Shellfishes	4747, 4810, 5292, 5590, 5591, 5676, 5703, 5898, 5908, 6219, 6439, 6530
Seaweed industry	4922, 5123, 5981	Shoal	6561
Seaweed processing	4920	Shore seine	4639, 4865, 5012, 5653, 6063
Seaweed production	4626, 5277, 6527	Shrimp	4697, 4756, 4757, 4809, 4887, 4972, 5103, 5246, 5329, 5453, 5454, 5548, 5595, 5624, 5640, 5771, 5825, 5893, 5985, 5986, 5998, 5999, 6029, 6085, 6092, 6102, 6184, 6189, 6228, 6243, 6261, 6288, 6343, 6363, 6435, 6506, 6582
Seaweed resources	4786, 4923, 4924, 5107, 5439	Shrimp culture	4636, 4642, 4725, 4809, 4938, 4939, 4980, 5124, 5222, 5312, 5399, 5776, 6102, 6547
Seaweed utilization	4920	Shrimp farmers	5700
Secondary metabolites	6085, 6087, 6089	Shrimp feed	4946, 5244, 5674
Secondary production	4779, 5993	Shrimp hatchery	4697, 4698, 5641
<i>Secutor incidiator</i>	4789	Shrimp ranching	4544
Sediment analysis	5517, 5638, 5708, 6165, 6219, 6303	Shrimp seed production	4722, 4938, 4986
Seed production	4722, 4938, 4966, 4986, 5079, 5198, 5246, 5336, 5519, 5966, 6023, 6028, 6245, 6447, 6474, 6475	Shrimp viral diseases	5595
Seerfish	4877, 5096, 5320, 5602, 5615, 6281, 5803, 6224, 6282, 6283		
Sei whale	5226, 5407, 5550, 5988, 6025		

Silver pomfret	5927, 6396	Spermatophores	5103, 5247
Silverbellies	4816, 5801, 6327, 6520	Spermatozoa	5707, 5846
Skate fishery	6519	Spineless cuttlefish	5092, 5094, 5197, 5198
Skin tissues	6444	Spinner dolphin	5409, 6150, 6229, 6230, 6311
Skin ulceration	6404	Spiny lobster	4705, 4812, 4813, 4999, 5000, 5064, 5213, 5274, 5347, 5492, 5568, 5689, 5897, 6045, 6304
Skipjack Tuna	5193, 6460	Sponges	4744, 4846, 5384, 5682, 6086, 6089
Small head hair tail	5661, 5844	Spores	5185, 5660, 6325
Small scale aquaculture	5141	Spotted Porcupine fish	4632
Small scale fishery	5082	Spotted seer	4874
Small scale fishing	5101, 5194	<i>Spratelloides delicatulus</i>	5620
Small scale mariculture	5101, 5136	Squid	4676, 4795, 4797, 5458, 5544
Small scale seaweed culture	5121	Star fish	5429, 6406
Snaggle tooth shark	5759, 6005	<i>Stenella longirostris</i>	6150, 6229, 6230
Snappers	4617	<i>Sterechinus antarcticus</i>	4613
Socio-economics	4978, 5016, 5332, 5560, 5366, 5368, 5369, 5372, 5375, 5806, 5813, 5992, 6390, 6408, 6571	<i>Sthenoteuthis oualaniensis</i>	6489
Spadenose shark	4794, 4871, 5359	<i>Stichopus hermanni</i>	6405
Spat	4732, 4850, 6043, 6556	<i>Stichopus vastus</i>	4906
Spat production	5616, 5930, 5935	Stock assessment	4715, 4750, 4831, 5150, 5152, 5158, 5239, 5268, 5305, 5310, 5601, 5602, 5632, 5661, 5673, 5696, 5824, 5844, 5910, 5911, 6015, 6042, 6254, 6264, 6265, 6283, 6299, 6354, 6393, 6399, 6479, 6491, 6526, 6535
Spatfall	4884, 5100	Stomatopod	6469
Spawning	4648, 4722, 4746, 4830, 5071, 5087, 5155, 5192, 5199, 5206, 5235, 5294, 5324, 5328, 5346, 5403, 5507, 5535, 5561, 5611, 6253, 6476	Stony corals	5164
Spearnose skate	6532	Stranding	4785, 4788, 4860, 4901, 5008, 5083, 5203, 5204, 5226, 5228, 5229, 5238, 5409, 5512, 5582, 5917, 6009, 6025, 6055, 6188, 6227, 6417, 6485
Speckled shrimp	4972, 5468, 5469, 6412, 6413	Sun type jellyfish	6478
Sperm whale	5580, 5618, 6418		
Spermatogenesis	5225		

Sunfish	5058, 5542, 6411, 6501, 6534, 6559	Traditional spiny lobster fishery	5347
Swimming crab	4811, 4913, 5569, 5972	Traditional fishery	5810
<i>Sylla serrata</i>	6046	Trawl catches	4755, 4758, 4761, 5458, 5570, 5665, 6118
<i>Symplectoteuthis oualaniensis</i>	5950	Trawl fishery	4619, 4753, 4798, 4987, 5019, 5416, 5783, 5913, 6471
<i>Synaptura annularis</i>	6531	Trawl net	4646, 6443
<i>Syringodon isoetifolium</i>	4842	Trawling	4638, 4641, 4658, 4812, 4998, 5077, 5214, 5924, 5951, 6142, 6508, 6578
<i>Tachysurus caelatus</i>	6048, 6518	Trawling grounds	5353, 5525, 5528
<i>Tachysurus dussumieri</i>	6074	<i>Trichiurus lepturus</i>	4821, 6399, 6491
<i>Tachysurus tenuispinis</i>	6049	<i>Trichodesmium</i> bloom	4822
Teleost	4805, 4808, 5163, 6352	Triploid	5973, 6366
<i>Thalassia hemprichii</i>	4842, 4915	Triploid oyster	6449
Threadfin	5802	Triploidy induction	6125, 6567
Threadfin bream	5074, 5438, 5693, 5907	Troll line fishery	6196
Thresher shark	6480	Tropical abalone	5328, 5518, 6027
<i>Thunnus tonggol</i>	4695, 6298	Tropical clown fish	5236
<i>Thysanoteuthis rhombus</i>	4795	Tuna	4695, 4985, 5023, 5161, 5173, 5193, 5600, 5620, 5621, 5622, 5630, 5631, 5632, 5769, 5817, 5821, 5878, 6145, 6196, 6197, 6265, 6278, 6298, 6299, 6332, 6367, 6419, 6460, 6570
Tiger prawn	4546, 5346, 5357, 602, 6314	Tuna fishery	4695, 4988, 5227, 5339, 5459, 5600, 5672, 5685, 5817, 6333
Tiger Shark	5760, 5971, 6095	Tuna like fishes	4985
Tolishad	4964	Tuna live baits	5379, 5484
Trace metals	4736, 5928, 6454, 6537	<i>Turbinaria conoides</i>	4630
Traditional craft	5037	<i>Tursiops truncatus</i>	5969
Traditional fishermen	4562	Turtle Excluder Device	6385
Traditional fishers	6387		
Traditional fishery	4978		
Traditional fishing	4942		
Traditional prawn culture	5345		

Turtles	4569, 4605, 4633, 4635, 4707, 4708, 4788, 4789, 4791, 4860, 4926, 5010, 5333, 5350, 5351, 5491, 5582, 5643, 5654, 5829, 6226, 6385	White muscle disease	6389
		White prawn	4767, 4769, 5110, 5353, 6127
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Ultra Violet	5100, 5110	White Spot Syndrome Virus	5266, 6126, 6314
<i>Ulva fasciata</i>	6088, 6445	Whitebaits	5253, 5737
<i>Ulva lactuca</i>	5753	Whitefish	5232, 5905
Unicorn cod	4720	White-spot disease	5076
Unicorn sole	6004	Windowpane oyster	5417, 5546
Upwelled water	5172	Windowpane shell	5930
Upwelling systems	6134, 6237	Women fisherfolk	4564, 5133, 5375, 5768, 5849, 5860, 5862, 5865, 6137, 6382, 5887
Vibriosis	5309		
<i>Villorita cyprinoides</i>	5132, 5288, 5448, 5589, 6110, 6249, 6513	World tuna fishery	5600
		<i>Xanucus pyrum</i>	4646, 6182
Viral	5076, 5595, 6170, 6389	Yellow fin tuna	6196, 6367
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Whale shark	4635, 4638, 4639, 4640, 4706, 4742, 4819, 4859, 4926, 4928, 4931, 4994, 5012, 5022, 5442, 5581, 5583, 5705, 5721, 5772, 5919, 6064, 6208, 6315, 6459, 6516, 6548	Zooplankton	4655, 4656, 4726, 4779, 4841, 4952, 4953, 4975, 6289