EXECUTIVE SUMMARY

Torres Strait, situated between Papua New Guinea and Australia, has a rich and diverse marine environment with outstanding conservation significance. The islanders have developed an identity and culture which strongly emphasises a traditional way of life that is intimately linked with the marine environment. Both PNG and Australia are committed to protect the marine and terrestrial environment of the Torres Strait, its resources and the way of life and livelihood of the traditional inhabitants.

One consequence of the unique physical and political environment, cultures and position of Torres Strait has been the relatively large number of anthropological, political and fisheries research; and environmental monitoring programs that have been undertaken there. There has also been numerous summaries of the present state of knowledge of the Torres Strait, however, each has had a different focus and as yet there has been no comprehensive literature search related to conservation planning.

This Torres Strait Bibliography is a digital compilation of over 600 references from a literature search of diverse sources including the State Library of Queensland, Aquatic Sciences and Fisheries Abstracts, Biological Abstracts and the Australian Government Publishing Service. All references have been categorised into main topics which were chosen to integrate and improve access to information about Torres Strait, its inhabitants and its natural resources.

All references have been assembled into a digital database, categorised, indexed by a unique number and annotated for assessment of utility for conservation planning. Maps relevant to conservation planning have been digitally scanned and linked to the source reference in the database.
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### Descriptions of all records, listed by ID number

#### Source abbreviations:
- **AGPS**: Australian Government Publishing Service  
- **ASFA**: Aquatic Sciences and Fisheries Abstracts (CD-ROMs 1975 - 1995)
- **Biol on CD**: Biological Abstracts
- **CSIRO**: CSIRO Division Marine Research  
  Personal collection of Brian Long (07) 3826 7200
- **GD**: Personal collection of Geoff Dews - MaSTERS (07) 3826 7200
- **JOL**: John Oxley Library (Brisbane)  
  Phone: (07) 3840 7879
- **QDPI**: Queensland Department of Environment Library  
  Phone: (07) 3227 7703
- **QM**: Queensland Museum Library  
  Phone: (07) 3840 7688
- **SLQ**: State Library of Queensland  
  Phone: (07) 3840 7810
- **UQ CDs**: Zoological Record and APAIS

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Islands 3. Torres Strait Islanders - Fishing 4. MacFarlane, J. W. (J. Wallace) 5. CSIRO. Division of Fisheries 6. T 1 COPY


7 QDPI CAIRNF 639.2099438 SYN 1987 04436126 Synopsis of the major Torres Strait fisheries / edited by M.J. Storrs. 1987. 110 p.; 30 cm. (Fisheries technical paper; no. 87-1) 1. Fisheries - Torres Strait (Qld. and Papua New Guinea) - History. 2. Divers - Torres Strait (Qld. and Papua New Guinea) - History. 3. Pearl button industry - Torres Strait (Qld. and Papua New Guinea) - History 4. T 1 COPY


13 QDPI CL QS INF QI94009 10635794 Ward, T. (Tim). The pearl industry in Queensland and Torres Strait: consultant's report to Queensland Department of Primary Industries. 1993. ix, 77 p.; ill., maps; 30 cm. (Information series / Queensland Department of Primary Industries, ISSN 0727-6273; QI94009) 1. Pearl industry and trade - Queensland 2. Pearl industry and trade - Torres Strait (Qld. and Papua New Guinea) 3. Queensland. Dept. of Primary Industries 4. Information series (Queensland. Dept. of ...


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36  QDPI  FISH 623.892994 AUS 1889 07310752 Australia directory. 4th ed. 1889. <2v.> ; 24 cm. Vol. 2 The east coast from Port Jackson to Cape York, Torres Strait and approaches, the Coral Seas and part of the Carpentaria Gulf. FISH holds Vol. 2 only. 1. Sailing - Australia 2. Navigation - Australia 3. Great Britain. Hydrographic Office VOL. 2 1 COPY


40  QDPI  FISH 639.2758 MAC 1983 09614819 McPherson, Geoff. Identification of stocks and migration routes of Torres Strait and Gulf of Carpentaria narrow-barred Spanish mackerel, Scomberomorus commerson. 1983. 31 leaves ; 30cm. 1. Mackerel fisheries - Carpentaria, Gulf of (N.T. and Qld.) 2. Mackerel fisheries - Torres Strait (Qld. and Papua New Guinea) 3. Fish populations - Carpentaria, Gulf of (N.T. and Qld.) 4. Fish populations - Torres Strait (Qld. and Papua New Guinea) 5. T 2 COPIES

41  QDPI  FISH 639.2758 TES 1988 07023638 Teske, Travis, 1945-. The mackerel fishery. 1988. 15 p. : ill., 1 map ; 21 cm. 1. Mackerel fisheries - Torres Strait Islands 2. Queensland. Far Northern Schools Development Unit 3. T 1 COPY


47  QDPI  FISH 639.543 TUR 1995 11929348 Turnbull, C. T. A preliminary report on the effectiveness of seasonal closures in the Torres Strait prawn fishery : a report to Prawn Working Group of the Torres Strait Joint Authority. 1995. 10 leaves ; 30cm. 1. Shrimp fisheries - Torres Strait (Qld. and Papua New Guinea) 2. Queensland Fish Management Authority 3. Australian Fisheries Management Authority 1 COPY


51 QDPI FISH 994.38 KEH 1987 06472171 Kehoe-Forutan, Sandi . A bibliography of the Torres Strait Islands. 1988 . 132 leaves ; 30 cm . 1. Torres Strait Islands (Qld.) - Bibliography 2. University of Queensland. Dept. of Geographical Sciences 3. T 1 COPY

52 QDPI FISH 994.38 MOR 1993 09685798 Mort, S. W. (Stanley Wallace). 1927-. Points north : points of general interest between Cairns and Torres Strait. 1993. vi, 70 p. : ill., maps ; 21 cm. 1. Cape York Peninsula (Qld.) - Description and travel 2. Cape York Peninsula (Qld.) - History 3. T 1 COPY

53 QDPI FISH 994.38 PEE 1947 02210996 Peel, Gerald. Isles of the Torres Straits : an Australian responsibility. 1947. <139> p. : ill., map ; 22 cm. 1. Torres Strait Islands (Qld.) - History 2. Torres Strait Islands (Qld.) - Politics and government 3. T 1 COPY

54 QDPI FISH 994.38 SIN 1979 01090430 Singe, John, 1950-. The Torres Strait : people and history. 1979. xiv, 267 p. : ill. ; 25 cm. 1. Torres Strait Islands (Qld.) - History 2. Torres Strait Islands (Qld.) - Politics and government 3. T 1 COPY

55 QDPI FISH S FIS 87/8 07250624 The rock lobster fisheries for the ornate rock lobster, Panulirus ornatus, in Torres Strait and on the north-east coast of Queensland, Australia / P.W. Channells, B.F. Phillips, R.S. Bell. 1987. Fisheries paper (Australian Fisheries Service) : 87/8 1. Fisheries paper (Australian Fisheries Service) : 87/8 2. Lobster fisheries - Torres Strait (Qld. and Papua New Guinea) 0 COPIES


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<td>QFM 341.446 AUS 1978 07110453</td>
<td>Treaty between Australia and the Independent State of Papua New Guinea concerning sovereignty and maritime boundaries in the area between the two countries, including the area known as Torres Strait, and related matters. 1978. 1v. (various pagings) : tables, maps ; 25 cm.</td>
<td>1. Australian National University. North Australia Research Unit 6. Torres Strait Island Coordinating Council 7. Ocean Rescue 2000 Program (Australia) 8.</td>
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<td>Torres Strait baseline study : pilot study final report June 1993 : trace metal concentrations in sediments and selected marine biota as indicator organisms and food items in the diet of Torres Strait Islanders and coastal Papuans. 1993. viii, 259 p. : maps ; 30 cm.</td>
<td>1. Torres Strait Islanders - Legal status, laws, etc. 6. Aborigines, Australian - Legal status, laws, etc. 7. National Native Title Tribunal (Australia) 8. Australia. Attorney-General's Dept. 9.</td>
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<td>Status of the dugong in the Torres Strait area : results of an aerial survey in the perspective of information on dugong life history and current catch levels / Helene Marsh ... &lt;et al&gt;. 1984. 72p. : ill., maps ; 30cm.</td>
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<td>Training needs (survey) for Torres Strait Islands and adjacent mainland communities : final report for the catching sector. 1988. 1v. (various pagings) ; 30cm. 1. Torres Strait Islanders - Legal status, laws, etc. 6. Aborigines, Australian - Legal status, laws, etc. 7. National Native Title Tribunal (Australia) 8. Australia. Attorney-General's Dept. 9.</td>
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<td>Planning workshop Torres Strait Island training program / submitted to Fisheries Research and Development Corporation and Queensland Fishing Industry Training Council by Transed Pty Ltd. 1994. 18 leaves ; 30cm. 1. Torres Strait Islands - Legal status, laws, etc. 6. Aborigines, Australian - Legal status, laws, etc. 7. National Native Title Tribunal (Australia) 8. Australia. Attorney-General's Dept. 9.</td>
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<td>Australian Fisheries Service. The management of fisheries in the Torres Strait protected zone. 1985. 30p. : maps ; 26cm. 1. Torres Strait Islanders - Legal status, laws, etc. 6. Aborigines, Australian - Legal status, laws, etc. 7. National Native Title Tribunal (Australia) 8. Australia. Attorney-General's Dept. 9.</td>
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<td>WRC 628.72099438 NGU 1993 10020657 Nguyen, K. Report on Torres Strait Islands water supply re-assessment rainwater tanks and small storages yield analyses. 1993. l.v. (various pagings): ill., map (col.) ; 30 cm. 1. Water-supply - Queensland - Torres Strait Islands 2. Rain-water (Water-supply) 3. Torres Strait Islands (Qld.)</td>
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<td>WRC 628.72099438 QUE 1992 09749280 Queensland. Water Resources. Audit of Torres Strait Islands water supplies. 1992. 1 v. (various pagings: col. ill., maps; 30 cm. 1. Water-supply - Queensland - Torres Strait Islands 2. Torres Strait Islands (Qld.)</td>
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<td>QDoE CL 346.940432 REB 1993 09859100</td>
<td>Rebutting Mabo myths / Aboriginal and Torres Strait Islander Commission. 1993.</td>
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<td>QDoE CL 354.9430015 HAR 199- 11407690</td>
<td>Harth, Lester. Interim strategic plan for the recruitment and training of aboriginals and Torres Strait Islanders. 199-.</td>
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<td>QDoE CL 355.03309438 BAB 1990 07347660</td>
<td>Babbage, Ross, 1949-. The strategic significance of Torres Strait. 1990.</td>
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<td>QDoE 110</td>
<td>CL 372.830440994 SPE 1993 12070296 Special places &lt;kit&gt; : a teaching resource about the National Estate-Australia's historic, Aboriginal and Torres Strait Islander and natural heritage places / Australian Heritage Commission. c1993. iv, 50 p. ; ill. ; 30 cm. + 1 video, 16 activity sheets, 3 posters, 15 picture cards, 3 student booklets. 1. Historic sites - Australia - Study and teaching (Primary) 2. Conservation of natural resources - Study and teaching (Primary) 3. Australian Heritage Commission 1 COPY</td>
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| QDoE 119    | CL 994.38 BEC 1987 04450227 Beckett, Jeremy. Torres Strait Islanders : custom and
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<td>135</td>
<td>JOL</td>
<td>HVC 346.940432 ACT 10923262</td>
<td>An act of justice &lt;videorecording&gt; / the Mabo Judgement &amp; the Native Title Act. 1994. 1 videocassette (VHS) (10 mins.). Summary: Outlines the history of the High Court's Mabo Judgement and the subsequent debate and controversy leading up to the passing of the Native Title Act through the Federal Parliament. 1. Native title (Australia) 2. Australia. Aboriginal and Torres Strait Islander Commission 1 COPY</td>
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<td>HVC 597.980994 CRO 08666960</td>
<td>No tears for the crocodile &lt;videorecording&gt; ; &lt;and&gt;, The treacherous strait. &lt;198-?&gt;. 1 videocassette (VHS)(105 min.). Ben Cropp treasure chest ; v.15 Summary: Ben Cropp discusses the impact of expanding human development on the crocodile; and looks at the history of the shipwrecks of the Torres Strait Reefs. 1. Ben Cropp treasure chest ; v.15 2. Crocodiles - Environmental aspects - Queensland 3. Crocodiles - Queensland 4. Shipwrecks - Torres Strait (Qld. and Papua New Guinea) 5. Torres Strait Islands (Qld.) - History 6. Treacherous Strait 7. T 1 COPY</td>
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<td>JOL</td>
<td>HVC 919.438 EGA 0706833 Egan, Ted.</td>
<td>The Islands of Torres Strait &lt;videorecording&gt;. c1989. 1 videocassette (VHS) (50 min.) : sd., col. ; 1/2 in. ( This land Australia) Summary: As Ted Egan journeys through the Torres Strait islands he observes the customs and way of life of the native residents. 1. Torres Strait Islanders - Social life and customs 2. Torres Strait Islands (Qld.) - Description and travel 3. Mabey, Rhonda 4. Mabey, John 5. Egan, Ted. This land Australia 6. This land Australia 7. T 1 COPY</td>
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<td>HVC 994.38 TAL 08360198 Talking broken &lt;videorecording&gt;. c1990. 1 videocassette (76 min.) : sd., col. with b&amp;w sequences ; 1/2 in. Summary: The Torres Strait Islanders describe their culture and the problems they face from their exposure to Western culture including the impact of tourism, AIDS, adoption, sorcery, dependence on welfare from the mainland and the loss of identity through exposure to Western media. 1. Torres Strait Islanders - Social life and customs 2. Torres Strait Islands (Qld.) - Social life and customs 3. Torres Strait Islands (Qld.) - Politics and government 4. Torres Strait Islands (Qld.) - Colonial influence 5. Calvert, Frances 6. Merrison, Lindsey 7. Talking Pictures Frances Calvert 8. Channel Four (Great Britain) 9. Ronin Films 1 COPY</td>
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<td>142</td>
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<td>J 266.395 WHI 07217635 White, Gilbert, 1859-1933. Round about the Torres Straits : a record of Australian church missions. 2nd ed. 1925. viii, 95 p. ; ill., map ; 19 cm. 1. Church of England - Missions - Papua New Guinea 2. Church of England - Missions - Australia, Northern 3. Church of England - Missions - Queensland - Torres Strait Islands 4. Missionaries - Papua New Guinea 5. Record of Australian church missions 6. Torres Strait Islanders - Social life and customs 7. Torres Strait Islands (Qld.) - Social life and customs 8. Torres Strait Islands (Qld.) - Social conditions 9. Torres Strait Islands (Qld.) - Social conditions 10. Torres Strait Islands (Qld.) - Social life and customs 11. Torres Strait Islands - Social life and customs 12. Torres Strait Islands (Qld.) - Social life and customs 1 COPY</td>
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150  JOL  J 342.9430872 BEY 01254241 Beyond the act. c<1979>. 328p. : ill., graphs ; 22cm. 1. Aborigines, Australian - Legal status, laws, etc. - Queensland 2. Torres Strait Islanders - Legal status, laws, etc. - Queensland 3. Aborigines and Torres Strait Islanders Legal Service (Qld) 4. Foundation for Aboriginal and Islander Research Action 1 COPY


154  JOL  J 370.99438 WIL 12651040 Williamson, Alan, 1941-. Schooling the Torres Strait Islanders 1873-1941 : context, custom and colonialism. 1994. xiv, 213 p. ; 25 cm. 1. Native Title Act 1993 2. Native title (Australia) 3. Aborigines, Australian - Legal status, laws, etc. 4. Torres Strait Islanders - Legal status, laws, etc. 5. Williamson, Alan, 1941- 1 COPY

155  JOL  J 427 SHN 10300020 Shnukal, Anna. Broken : an introduction to the creole language of Torres Strait. c1988. xiii, 328 p. : ill., map ; 25 cm. 1. Torres Strait Islanders - Legal status, laws, etc. 2. Aborigines, Australian - Legal status, laws, etc. 3. Torres Strait Islanders - Legal status, laws, etc. 4. Australia - Defenses 5. Queensland - Defenses 6. T 2 COPIES


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<td>Island: a treasure quest in Torres Strait</td>
<td>Gela, Anne Abednego</td>
<td>1946</td>
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<td>JUVP 923 PEA 07742669 Castley, Steve</td>
<td>Philemon Pearson, a life story</td>
<td>1990.</td>
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<td>JOL</td>
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<td>Gelam the man from Torres Strait</td>
<td>1946.</td>
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<td>M 800 1820 04696 C 02670274 J.W. Norie &amp; Co. &lt;Chart of coast of Queensland, also covering Torres Strait, New Guinea and Pacific islands east to Fiji&gt;</td>
<td>Queensland Dept. of Mapping and Surveying</td>
<td>1976-</td>
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<td>M 840 0000 00000 A 04617545 Queensland Dept. of Mapping and Surveying</td>
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<td>NAT 919.55 MKE 04092965 MacKellar, C. D.</td>
<td>Scented isles and coral gardens: Torres Straits, German New Guinea, and the Dutch East Indies.</td>
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<td>Changing political contexts for Torres Strait: new realities and new necessary techniques</td>
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<td>Report on the operations of the Land Tribunal, established under the Torres Strait Islander Act 1991 for the year ended ...</td>
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<td>Sharp, Nonie. Torres Strait Islands: a great cultural refusal: the meaning of the maritime strike of 1936.</td>
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<td>OM 66.002/3 06181058 Davies, A.O.C.</td>
<td>Notes on various cults and legends of Murray Island, Torres Strait</td>
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<td>OM 70.015 06299136 Lacy, Emily Josephine.</td>
<td>Account of the wreck of the Quetta in the Torres Straits, 1890</td>
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<td>201</td>
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<td>OM 75.050 06514439 Gaulai,</td>
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<td>217 JOL</td>
<td>P 306.3 DEE 01733413</td>
<td>The deed of grant in trust : land tenure for Aboriginal and Torres Strait Islander people in Queensland. &lt;1982&gt;. 1 sheet ; 22 x 29cm. folded to 22 x 10cm.</td>
<td>1. Aborigines, Australian - Land tenure - Queensland 2. Native title (Australia) 3. Queensland. Dept. of Aboriginal and Islanders Advancement. Community Relations Branch</td>
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<td>P 331 STE 09548910</td>
<td>Stevens, David. Joint report prepared for the Aboriginal and Torres Strait Islander Commission and Department of Industrial Relations on consultation with Aboriginal and Torres Strait Islander organisations on industrial relations issues. 1991. 11 leaves ; 30 cm.</td>
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<td>P 352.094 LIS 08636627 Lisson, Ron. Let's work together : conference report.</td>
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<td>P 352.094 POP 08636635 Pope, Alex. Good practices : initiatives between local government and Aboriginal and Torres Strait Islander communities : a study of ...</td>
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<td>P 355.033 AGN 07528104 Agnew, Richard Q. (Richard Quentin), 1959-. Torres Strait in Australia's security : the weak link?</td>
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<td>P 355.3 AUS 08878263 Australia. Parliament. Joint Committee on Foreign Affairs, Defence and Trade. Defence Sub-Committee. Report on the visit of the Defence Sub-Committee of the Joint Committee on Foreign Affairs, Defence and Trade to North Queensland and the Torres Strait.</td>
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<td>Education for students of the outer islands of the Torres Strait : An overview of the investigative process, issues to emerge and learnings for future research / by Larry Smith and Kerry Rose.</td>
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<td>JOL P 383.49938 MUR 02099857</td>
<td>Murphy, J. The Torres Straits mail services.</td>
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<td>JOL P 745.5099438 MOO 08384721</td>
<td>Moore, David R. Arts and crafts of Torres Strait.</td>
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<td>McInnes, Allan, 1927-. The wreck of the 'Charles Eaton'.</td>
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<td>Bruce, Robert. After forty-nine years.</td>
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<td>Queensland. Committee to Enquire into and Report Upon Existing Legislation Dealing with the Welfare of the Aborigines and Torres Strait Islanders in the State. Report of special committee enquiring into legislation for the promotion of the well-being of aborigines and Torres Strait Islanders in Queensland. 1964. 8 p. ; 34 cm. 1. Torres Strait Islanders - Queensland - Social conditions 2. Torres Strait Islanders - Legal status, laws, etc. - Queensland 3. Aborigines, Australian - Queensland - Social conditions 4. Aborigines, Australian - Legal status, laws, etc. - Queensland 5. T 1 COPY</td>
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<td>Myths and legends of Torres Strait / collected and translated by Margaret Lawrie. 1970. xxiv, 372 p. ; ill. (part col.) maps ; 27 cm. + phonodisc (2s. 7in. 45rpm.) in pocket. 1. Torres Strait Islanders - Legends 2. Legends - Queensland - Torres Strait Islands 3. Lawrie, Margaret Elizabeth 4. Songs from Torres Strait</td>
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<td>JOL Q 994.38 FIN 03197082 Finch, Noel, 1935-. The Torres Strait Islands: portrait of a unique group of Australians. 1977. v. 78 p.; ill., maps, ports.; 25 cm. 1. Torres Strait Islands (Qld.) - Social life and customs 2. T VOL. 2 1 COPY VOL. 5 1 COPY</td>
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<td>JOL Q 994.38 SHA 02134482 Sharp, Nonie. Torres Strait Islands, 1879-1979: theme for an overview. 1980. 90, vii p.; map; 30 cm. La Trobe working papers in sociology; no. 52 1. La Trobe working papers in sociology; no. 52 2. Torres Strait Islands (Qld.) - Social conditions 3. La Trobe University. Dept. of Sociology 4. T VOL. 2 1 COPY 5 1 COPY</td>
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<td>JOL RBJ 387.5 BOG 03451674 Bogue, Adam. Steam to Australia, its advantages considered, the different proposed routes for connecting London and Sydney compared and the expediency of forming a settlement at Cape York in Torres Strait... 1848. 70 p.; 2 folded maps; 22 cm. 1. Steamboat lines - History - Sources 2. Cape York Peninsula (Qld.) - History - Sources 3. T 1 COPY</td>
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<td>JOL RBJ 499.15 RAY 03032492 Bayley, William. Narrative of a voyage round the world: comprehending an account of the wreck of the ship 'Governor Ready' in Torres Straits: a description of the British settlements on the coasts of New Holland. 1835. xv, 349, 8 p., &lt;3&gt; leaves of plates (1 folded); ill., map; 23 cm. More particularly Raffles Bay, Melville Island, Swan River and King George's Sound, also the manners and customs of the Aboriginal tribes with an appendix containing remarks on transportation, the treatment of convicts during the voyage and advice to persons intending to emigrate to the Australian colonies'. 1. Governor Ready (Ship) 2. Voyages around the world 3. Prisoners, Transportation of - Australia 4. Shipwrecks - Torres Strait (Qld. and Papua New Guinea) 5. Australia - Description and travel - To 1850 6. T 1 COPY</td>
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<td>JOL RBJ 910.45 BRO 01790983 Jukes, J. Beete (Joseph Beete), 1818-1869. Narrative of the surveying voyage of H.M.S. Fly: commanded by Captain F.P. Blackwood, R.N. in Torres Strait, New Guinea, and other Islands of the eastern archipelago during the years 1842-1846. 1847. 2 v. (xii, 423; vi, 362 p., &lt;18&gt; leaves of plates); ill., map; 23 cm. Together with an excursion into the eastern part of Java'. 1. Fly (Ship) 2.</td>
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<td>JOL RBJ 910.453 KIN 02934826 King, Phillip Parker, 1791-1856. A voyage to Torres Strait in search of the survivors of the ship Charles Eaton, which was wrecked upon the Barrier Reefs, in the month of August, 1834, in His Majesty's colonial schooner Isabella, C. M. Lewis, Commander. 1837. 89 p.; 1 folded map; 22 cm. Includes: A list of the crew and passengers on board the Charles Eaton at the time she was wrecked and Vocabulary of the language of the Murray and Darnley Islanders. Library's copy has inscription by William Bayley dated 1839. 1. Charles Eaton (Ship) 2. Isabella (Ship) 3. Shipwrecks - Torres Strait (Qld. and Papua New Guinea) 4. Torres Strait Islanders - Queensland - Murray Islands - Languages 5. Lewis, C. M. 6. A voyage to Torres Strait in search of the survivors of the ship Charles Eaton... 1 COPY</td>
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<td>JOL RBJ 919.4304 JUK 03257667 Beete (Joseph Beete), 1818-1869. Narrative of the surveying voyage of H.M.S. Fly: commanded by Captain F.P. Blackwood, R.N. in Torres Strait, New Guinea, and other Islands of the eastern archipelago during the years 1842-1846. 1847. 2 v. (xii, 423; vi, 362 p., &lt;18&gt; leaves of plates); ill., map; 23 cm. Together with an excursion into the eastern part of Java'. 1. Fly (Ship) 2.</td>
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<td>Brew, Robert. Explorations while pearl-shelling in Torres Straits. n.d. 10 p. ; 22 cm. 1. Exploration pamphlets 2. Pearl industry and trade - Torres Strait (Qld. and Papua New Guinea) 3. Australia - Discovery and exploration 4. Papua - Discovery and exploration 5. Torres Strait (Qld. and Papua New Guinea) 6. Torres Strait (Qld. and Papua New Guinea) - Description and exploration 7. Torres Strait Islands (Qld.) - Description and travel 8. Basilisk (Ship) 9. Papua - Discovery and exploration 10. Papua - Description and travel 11. Papua - Description and travel 12. Torres Strait Islands (Qld.) - Description and travel</td>
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<td>Kyuhara, Shuji. Remains of Japanese on Torres Strait Islands. 1977. 17 p. ; 36 cm. 1. Japanese - Torres Strait Islands 2. Pearl</td>
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<p>| 297 | JOL | VF 305.89915 HUN 12828686 Hunt, Archibald E. Ethnographical notes on the Murray Islands, Torres Straits. p. 5-12 ; 28 cm. ; in folder 36 x 24 cm. 1. Aborigines, Australian - Queensland - Murray Islands - Social life and customs 2. Ethnology - Queensland - Murray Islands 3. Journal of the Anthropological Institute of Great Britain and Ireland 4. T 1 COPY |
| 299 | JOL | VF 323.11991 STE 04800881 Stevens, Frank. Aboriginal policy and the dual society in North Australia. 1968. 7 p. ; 35 cm. 1. C1 |
| 301 | JOL | VF 623.89 HAR 04805530 Harrold, Charles. Directions for Torres Straits. 1859. 4 l. ; 35 cm. 1. Coastwise navigation - Torres Strait (Qld. and Papua New Guinea) 2. Torres Strait (Qld. and Papua New Guinea) 3. T C1 |
| 302 | JOL | VF 639.412 DEH 02443647 De Hoghton, Thomas. Reporting of the pearl shell fisheries of Torres Straits. &lt;4&gt; leaves ; 34 cm. 1. Pearl fisheries - Torres Strait (Qld. and Papua New Guinea) 2. Queensland. Queensland government gazette 3. T 1 COPY |
| 303 | JOL | VF 910.453099438 WAL 04807430 Wales, Murdoch, 1925-. Disaster in the moonlight : the Quetta tragedy. &lt;196-?&gt;. 9 l. : illus., map, ports. ; 35 cm. 1. Quetta (Ship) 2. Marine accidents - Queensland 3. Shipwrecks - Torres Strait (Qld. and Papua New Guinea) 4. T 1 COPY |
| 304 | JOL | VF 940.53 CAM 07491945 Campbell, A. M. Thursday Island : February 1942. 12 leaves ; 30 cm. 1. World War, 1939-1945 - Personal narratives, Australian 2. World War, 1939-1945 - Participation, Torres Strait Islander 3. Torres Strait Islands (Qld.) - History 4. T 1 COPY |
| 305 | JOL | VF 994.38 BEC 04811658 Beckett, Jeremy. The Torres Strait Islanders and the pearling industry : a case of internal colonialism. 1977. p. 77-104 ; ill., map ; 30 cm. 1. Pearl industry and trade - Torres Strait (Qld. and Papua New Guinea) 2. Torres Strait Islanders - Social conditions 3. Torres Strait Islands (Qld.) - History 4. T C1 |
| 309 | SLQ | G 305.8 1993 10964469 Indigenous minorities and education : Australian and Japanese perspectives of their indigenous peoples, the Ainu, Aborigines and Torres Strait Islanders / report of joint research project, James Cook University of North |</p>
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<td>SLQ QKT 783.11942 YOR 07698780</td>
<td>Children's songs of the Torres Strait Islands &lt;kit&gt;. 1990. 56p. : ill., music ; 28 cm. + 1 cassette. 1. Children's songs - Torres Strait (Qld. and Papua New Guinea) 2. Torres Strait Islanders - Music 3. T 1 COPY</td>
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<td>SLQ QVC 994.38 ISL VHS 10247668</td>
<td>The Islanders &lt;videorecording&gt;. 1968. 1 videocassette (22 min.) : sd., col. ; 1/2 in. Summary: This programme describes the everyday life of Torres Strait Islanders, and focuses on traditional customs and practices. It also suggests changes in the lives of the people through their awareness of the need for more education. 1. Torres Strait Islanders - Social life and customs 2. Torres Strait Islands (Qld.) - Description and travel 3. Holmes, Cecil, 1921-1994 1 COPY</td>
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<td>SLQ SER 362.84 10829479</td>
<td>Torres Strait Island Coordinating Council. Annual report. v. ; 30 cm. Holdings: 1993/94-. 1. Torres Strait Island Coordinating Council - Periodicals 2. Torres Strait Islanders - Councils - Periodicals 3. T 0 COPIES</td>
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<td>360</td>
<td>QMUS</td>
<td>Call Number: 305.89915 ABO Title: The Aborigines and Torres Islanders of Queensland Place: Brisbane Publisher: Western Suburbs Branch United Nations Association Date: 1958 Collation: 64 p. : map ; 21 cm</td>
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<td>361</td>
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<td>Call Number: 574.5099438 BRI Title: Bridge and barrier : the natural and cultural history of Torres Strait Place: Canberra Publisher: Australian National University Date: 1972[i.e. 1973] Collation: xviii, 437 p. ; maps ; 29 cm Series: Research School of Pacific Studies. Department of Biogeography &amp; Geomorphology. Publication ; BG/3 (1972) Notes: &quot;This volume contains 19 papers presented at the Torres Strait Symposium sponsored by the Research School of Pacific Studies of the Australian National University on the 6, 7 and 8 December 1971&quot;--Pref Bibliography: p.407-437</td>
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<td>362</td>
<td>QMUS</td>
<td>Call Number: 330.99438 TRE Author: Treadgold, M. L. (Malcolm Lloyd) Title: The economy of the Torres Strait Area : a social accounting study Place: Canberra Publisher: Research School of Pacific Studies, Dept. of Economics, Australian National University Date: 1974 Collation: x, 42 p. : 1 map ; 29 cm Notes: Includes bibliographical references [93/18960]</td>
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<td>363</td>
<td>QMUS</td>
<td>Call Number: 305.89915 AUS Author: Australia. Parliament. Senate. Select Committee on Aborigines and Torres Strait Islanders Title: The environmental conditions of Aborigines and Torres Strait Islanders and the preservation of their sacred sites Place: Canberra Publisher: Australian Government Publishing Service Date: 1976 Collation: xxix, 314 p. ; map ; 25 cm Notes: Australian Aborigines &amp; Torres Strait Islanders. Social conditions. Inquiry reports (ANB/PRECIS SIN 0138053) Chairman: N.T. Bonner Includes bibliographical references [93/18958]</td>
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<td>364</td>
<td>QMUS</td>
<td>Call Number: 306.089915 LUI Author: Lui, Addie Leah Title: The last farewell : maintaining customary practice in Torres Strait Islander society Date: 1988 Collation: vi, 106 leaves : ill., maps ; 30 cm Notes: Graduate Diploma (Grad.Dip.Mat.Anthropology)--James Cook University of North Queensland, Townsville, 1988 Includes bibliographical references: leaves 103-106 [95/20688]</td>
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<td>365</td>
<td>QMUS</td>
<td>Call Number: 994.38 LAW Author: Lawrence, David Russell Title: The material culture of customary exchange in the Torres Strait and Fly estuary region Place: Townsville Publisher: James Cook University of North Queensland Date: 1989 Collation: 2 v. ; ill. ; 30 cm Notes: Thesis submitted for the degree of Doctor of Philosophy in the Material Culture Unit at James Cook University of North Queensland [91/18105]</td>
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<td>366</td>
<td>QMUS</td>
<td>Call Number: 398.209943 MYT Title: Myths and legends of Torres Strait Place: St. Lucia, Qld. Publisher: University of Queensland Press Date: 1970 Collation: xxiv, 372 p. ; ill. (some col.), maps ; 27 cm + 1 phonodisc (2s. 7in. 45rpm.) in pocket Notes: Title on phonodisc: Songs from Torres Strait [76/9373]</td>
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<td>367</td>
<td>QMUS</td>
<td>Call Number: 306.089915 SAN Author: Sandilands, Fairlie Beth Title: Pandanus and plastic : material culture and ethnicity among Eastern Torres Strait women, Townsville Date: 1989 Collation: vii, 131 leaves : ill., maps ; 30 cm Notes: Graduate Diploma (Grad.Dip.Mat.Anthropology)--James Cook University of North Queensland, Townsville, 1989 Includes bibliographical references: leaves 119-122 [95/20686]</td>
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<td>368</td>
<td>QMUS</td>
<td>Call Number: 016.30589915 QUE Author: Queensland State Archives Title: Records</td>
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guide : a guide to Queensland government records relating to Aboriginal and Torres Islander peoples Place: Brisbane Publisher: Queensland State Archives Date: c1994 Collation: xiii, 120 p. ; ill. ; 30 cm. Notes: Includes index. [94/20277]

369 QMUS Call Number: 994.38 WIL RC Location: REFCENT Author: Wilson, Lindsay, Title: Thathilgaw emeret lu : a handbook of traditional Torres Strait Islands material culture Place: [Brisbane] Publisher: Dept. of Education, Queensland Date: 1988 Collation: 139 : ill. ; 30 x 21 cm Notes: Bibliography: p. [138]-139 [93/19625]

370 QMUS Call Number: 387.50916476 NIC Author: Nicholson, Ian Hawkins Title: Via Torres Strait : a maritime history of the Torres Strait Route and the ship's post office at Booby Island Place: [Yaroomba, Qld.] Publisher: Ian Nicholson [on behalf of the Roebuck Series] Date: 1996 Collation: x, 418 p. ; ill., maps ; 25 cm Series: Roebuck Society publication ; no. 48 Notes: Includes index [96/21571]

371 QMUS Call Number: Personal notes Location: Personal notes Author: Watson, D. M. S. Title: Torres Straits mummies in Queensland Museum : Extract from Prof. D.M.S. Watson's letter in a biographical record of Sir Grafton Elliot Smith (Jonathan Cape, 1938), pp. 62-66. Date: 1938 Collation: 1 folder Notes: Letter is in good condition. Held in folder [67/6244]

372 QMUS HAMLYN-HARRIS, R. (1913) Ethnographical notes of Torres Strait, illustrated by specimens in the Queensland Museum collections - Plate II and Text figure I MEMOIRS OF THE QUEENSLAND MUSEUM V 2 : 1-6

373 QMUS HAMLYN-HARRIS, R. (1912) Papuan Mummification, as practised in the Torres Strait MEMOIRS OF THE QUEENSLAND MUSEUM V 1 : 1


377 ASFA 1 of 43 TI: A statistical analysis of storm surges in Torres Strait. AU: Amin,M.-(Inst.-Oceanogr.-Sci.,-Bidston-Obs.,-Birkenhead,-Merseyside-L43-7RA,-UK) SO: Aust.-J.-Mar.-Freshwater-Res., 1978 29(4), 479-496 PY: 1978 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Tidal harmonic constituents were obtained from analysis of one year of simultaneous sea level observations at each of six stations in Torres Strait and the subsequent tidal residuals were computed. Examination of the residuals showed that Frederick Point and Twin Island have similar responses to meteorological effects; likewise Booby Island, Goods Island and Turtle Head have common characteristics. It was found that the east-west component of surface winds is mainly responsible for the generation and propagation of surges, and winds of velocity less than 12 m/s are insignificant in the generation of surges. Winds from the west develop positive surges west of Ince Point and negative surges east of Ince Point. The reverse is true for winds from the east. A regression technique was used to develop a system for forecasting surges using meteorological data available from nearby meteorological stations. Variations in mean sea level with periods of 3-4 days were observed. These oscillations were not simply related to any local meteorological effects and are considered to have their origin either in the Indian Ocean or in the Coral Sea. It is suggested that a mechanism exists whereby surges generated outside Torres Strait may affect surge levels within the Strait. DE: storm-surges; statistical-analysis; meteorological-data; ISEW,-Torres-Strait ID: harmonic-analysis; tides- OZ: Pacific-Southwest (ISEW) AN: 0930990

300 tagged P. ornatus had been recaptured. Of the 9632 P. ornatus tagged on the east coast of Queensland, none was recaptured in Torres Strait, while most of the 24 recaptures showing movements occurred to the south of the tagging sites. Results of the tagging study showed that P. ornatus from western Torres Strait also emigrate into Papuan New Guinean waters, where they are fished by both Australian and Papua New Guinean fishermen. The population of P. ornatus in south-east Torres Strait and on the east coast of Queensland does not take part in this breeding emigration and may be a separate resource.

DE: Torres-Strait; movements; breeding; population-studies; migrations; tagging; stock-identification; lobster-fisheries; Panulirus-ornatus; ISEW,-Australia,-Queensland,-Torres-Strait; ISEW,-Papua-New-Guinea,-Torres-Strait CL: Fishable-stocks;Stock-assessment-and-management-1604 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 1626571

379 ASFA 4 of 43 TI: Patterns of Some Seagrass Distributions in the Torres Strait, Queensland. AU: Bridges,-K.W.; Phillips,-R.C.; Young,-P.C. AF: Dep. Bot., Univ. Hawaii, 3190 Maile Way, Honolulu, HI 96822, USA SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1982. vol. 33, no. 2, pp. 273-283 PY: 1982 LA: English LS: English PT: J (Journal-Article) AB: The Torres Strait (10 degree S., 141-144 degree E.) has 12 species of seagrasses, representing 22% of all known species. They are sparsely distributed over wide areas and mostly restricted by the erosive effect of strong currents and high turbidity to the intertidal areas landward of the coral reef crest. Species showed no characteristic zonation patterns and occurred in high diversity. It is postulated that this may be due to environmental stress caused by exposure which over-rides the competitive advantage of normally dominant species. DE: Australia,-Queensland,-Torres-Strait; species-diversity; community-composition; environmental-conditions; seagrasses; sea-grass; spatial-distribution; Australia-East-Coast; Queensland-Coast; Torres-Strait; ISEW,-Australia,-Queensland ID: 12-species CL: Population-Studies;Population-structure-1441 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 0262208

380 ASFA 6 of 43 TI: Non-Linear Model of the Tides in the Gulf of Carpentaria. AU: Church,-J.A.; Forbes,-A.M.G. AF: Div. Oceanogr., CSIRO Mar. Lab., P.O. Box 21, Cronulla, N.S.W. 2230, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1981. vol. 32, no. 5, pp. 685-697 PY: 1981 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: A non-linear barotropic model was used to evaluate the tidal regime in the Gulf of Carpentaria. The model was forced by open boundary conditions specified on a line joining Wessel Islands to False Cape and a volume flow through Torres Strait estimated from tidal constants on each side of the Strait. The model gives results in agreement with the available observations and in particular predicts mixed tides in the northern half of the Gulf and diurnal tides in the south-east corner of the Gulf. The diurnal tide consists of a Kelvin wave entering the Gulf in the north-west and propagating clockwise around the Gulf with one amphidromic point. The higher frequencies of the semi-diurnal tides allow the generation of a first-mode Poincare wave and the trapping of energy in the northern half of the Gulf. Amphidromes near Mornington Island and Groote Eylandt are also predicted, as is a region of low amplitude and rapid variations in the centre of the Gulf. DE: tidal-models; barotropic-mode; ISEW,-Carpentaria-Gulf CL: Dynamical-Oceanography-and-Limnology;Tides,-surges-and-sea-level-2167; Dynamical-Oceanography-and-Limnology;-Nearshore-dynamics-2170 JA: Ocean-Technology,-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) AN: 0321566

381 ASFA 7 of 43 TI: Recent coccolithophores from the Great Barrier Reef-Coral Sea region. AU: Conley,S.M.-(Dep.-Geol.,-Univ.-Sydney,-Sydney,-NSW,-Australia) SO: Micropalaeontology, 1979 25(1), 20-43 PY: 1979 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Coccoliths in recent sediments from the Great Barrier Reef Province. Torres Strait and Coral Sea have geographically distinctive patterns of diversity, relative abundance and species distributions. Gephyrocapsa oceanica- along with Emiliana huxleyi- dominate most samples from the shallower waters of this region. The minor species are primarily scapholiths and cyrtoliths. Due to severe environmental stresses, the Torres Strait and northern Great Barrier Reef florals are extremely limited, whereas to the south there is increasing diversity due to enhanced circulation of Coral Sea waters. The pelagic florals of the Coral Sea are relatively diverse, with E. huxleyi- and G. oceanica- the dominant species, but G. oceanica- declines in abundance around the basin. The abyssal Coral Sea florals is strongly modified by taphonomic processes. DE: geographical-distribution;
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photostate copies of the original reports and charts, has plotted the track of Torres' two vessels from island to island and point to point by interpreting the records, by navigational deduction and from a long experience of navigating ships through the very waters traversed by Torres. He has also made sketch surveys of uncharted areas and has studied the various rare charts, maps and globes compiled by different cartographers between 1613 and 1700 from the three or four coastal charts drawn by Prado but missing from the archives since soon after the voyage. The principal conclusion of this study is that Torres used Endeavour Strait to get clear of the innumerable islands and reefs which blocked his course to the west and was therefore in sight of the Australian coast for many days, a finding contested by several previous writers. DE: historical-account; navigation-; ISEW,-Torres-Strait OZ: Pacific-Southwest (ISEW) AN: 8038670


387 ASFA 14 of 43 TI: The ecology and leaf dynamics of the seagrass Thalassodendron ciliatum (Forsk.) den Hartog. AU: Johnstone,-I.M. AF: New Zealand Electricity, P.O. Box 445, Hamilton, New Zealand SO: AUST.-J.-BOT. 1984. vol. 32, no. 3, pp. 233-238 PY: 1984 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Thalassodendron ciliatum is recorded for the first time from the Papua New Guinea mainland. Net leaf productivity (3 and 6 day data) for three T. ciliatum populations (Red Sea, Torres Strait and the Papuan coastal lagoon) was remarkably similar, ranging from 1 multiplied by 70 to 1 multiplied by 78 cm super(2) per shoot per day. The leaf area index of a monospecific T. ciliatum) meadow was more than 4 times greater than that of a mixed-species meadow containing T. ciliatum as one component. DE: leaves-; productivity-; Papua-New-Guinea-Coast; sea-grass; growth-; new-records; Thalassodendron-ciliatum; biomass-; ISEW,-Papua-New-Guinea CL: Autecology:-Age-and-growth-1424; Botany:-Geographical-distribution-1222 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 1130669

388 ASFA 16 of 43 TI: Culture trials of young green turtles, Chelonia mydas, in Torres Strait, Northern Australia AU: Kowarsky,-J.-(Appl.-Ecol.-Pty-Ltd,-P.O.-Box-26,-Woden,-ACT-2606,-Australia). SO: Aquaculture, 1977 11(3), 197-215 NT: 11 ref.; 8 figures; 1 table PY: 1977 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Survival and weight-change data for, C.mydas, over the first 5 months of life are presented together with details of stocking densities and water turnover conditions under which turtles were held for that period. Evidence was obtained that poor water quality, rather than the degree of physical crowding, was the major adverse influence on the culture of these turtles. DE: turtle-culture; aquaculture-development; Chelonia-mydas; ISW,-Australia,-Yorke-Is. OZ: Indian-Ocean (ISW) AN: 7021000

389 ASFA 17 of 43 TI: Observations on green turtles (Chelonia mydas) in north-eastern Australia during the 1975/76 nesting season. AU: Kowarsky,-J.-(Dep.-Biol.-Capricornia-Inst.-Advanced-Education,-MS-76,-Rockhampton,-Queensl.,-Australia,-4700) SO: Biol.-Conserv., 1978 13(1), 51-62 PY: 1978 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Surveys of nesting activity of green turtles (Chelonia mydas) were conducted in the Torres Strait region during the 1975/76 nesting season. Very few of the numerous beaches examined showed any evidence of heavy use by nesting turtles. During that season there were widespread reports of lower than usual nesting activity by green turtles in north-eastern Australia. Biological information from nesting
green turtles in the Torres Strait region was very similar to comparable data available for green turtles nesting at Heron Island, located further south. DE: habitat-; reproductive-behaviour; Chelonia-mydas; ISEW,-Torres-Strait ID: nesting-behaviour; activity-; surveys- OZ: Pacific-Southwest (ISEW) AN: 8094630

390 ASFA 18 of 43 TI: Returns of pond-reared juvenile green turtles tagged and released in Torres Strait, northern Australia. AU: Kowarsky,J.; Capelle,M.-(Dep.-Biol.-Capricornia-Inst.-Adv.-Educ.,-MS-76,-Rockhampton,-Queensland-4700,-Australia) SO: Biol.-Conserv., 1979 15(3), 207-214 PY: 1979 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: In 1974 a total of 1082 green Chelonia mydas- and 53 hawksbill Eretmochelys imbricata- turtles which had been pond-reared from egg or hatching were tagged and released in Torres Strait. Twelve green and two hawksbill turtles were subsequently recaptured after periods free ranging from 12 to 400 days and after having moved minimum distances ranging from 50 to 570 km. Examination of returns showed that (1) one batch of green turtles had an apparently higher rate of recapture than other batches of green turtles released; (2) most turtles were recaptured within the first year following release; and (3) there appeared to be a seasonal trend in direction of movement of tagged turtles. Factors which may have influenced the above findings are discussed, and the relevance of these data to establishing the feasibility of 'head-starting' as a conservation measure, and further understanding wild turtle behaviour, is considered. DE: tagging-; stocking-organisms; Chelonia-mydas; Eretmochelys-imbricata; ISEW,-Torres-Strait ID: dispersal-; turtle-green; turtle-hawksbill OZ: Pacific-Southwest (ISEW) AN: 9083860

391 ASFA 21 of 43 TI: The hawksbill turtle, Eretmochelys imbricata (L.), in north-eastern Australia: The Campbell Island rookery. AU: Limpus,-C.J.; Miller,-J.D.; Baker,-V.; McLachlan,-E. AF: Queensland Turtle Res. Project, Queensland Natl. Parks & Wildl. Serv., Pallarenda, Townsville, Qld. 4810, Australia SO: AUST.-WILDL.-RES. 1983. vol. 10, no. 1, pp. 189-191 PY: 1983 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Low-density nesting by hawksbill turtles at Campbell I., Torres Strait, is described. The average female measured 83 multiplied by 2 cm in carapace length, weighed 51 multiplied by 6 kg and laid three clutches per season with a renesting interval of 14 multiplied by 7 days. The average clutch contained 131 multiplied by 8 eggs, mean egg weight was 26 g and mean diameter was 3 multiplied by 6 cm. Hatching weight was 14 multiplied by 3 g, mean period to emergence was 55 days. Varamid predation is described. Scute variation of adults and hatchlings is summarized. DE: nesting-; reproduction-; Australia,-Campbell-I.; hatching-; clutch-; emergence-; nesting-behavior; Eretmochelys-imbricata; ISEW,-Australia,-Campbell-I. CL: Population-Studies:-Population-dynamics-1442 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 0552048

392 ASFA 22 of 43 TI: Torres Strait Treaty -- what it will mean for Australian commercial fisherman. AU: Macdonald,-D. AF: Special Projects Sect., Fish Div., Dep. Primary Ind., Canberra, A.C.T., Australia SO: AUST.-FISH. 1981. vol. 40, no. 5, pp. 6-9 IS: ISSN 0004-9115 PY: 1981 LA: English PT: J (Journal-Article) ER: M (Marine) AB: The exclusive economic zones of Papua New Guinea and Australia overlap in the Torres Strait area. The two countries have negotiated a treaty, the Torres Strait Treaty, dealing with all of the potentially conflicting issues that could arise. This account provides additional information on the treaty and its implications for Australian commercial fishermen. DE: exclusive-economic-zone; international-agreements; legal-aspects; ISEW,-Australia,-Torres-Strait CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565; Law,-Policy,-Economics-and-Social-Sciences-1121 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 0630183

393 ASFA 23 of 43 TI: Fisheries Laws in the Torres Strait. AU: MacDonald,-D. AF: Special Projects Sect., Fisheries Div., Commonwealth Dept. of Primary Industry, Canberra, Australia SO: AUST.-FISH. 1981. vol. 40, no. 2, pp. 26-29 IS: ISSN 004-9115 PY: 1981 LA: English PT: J (Journal-Article) ER: M (Marine) AB: This article explains the complex pattern of fisheries laws applicable in the Torres Strait as they now stand and as they will stand after the commencement of the Torres Strait Treaty, which was signed by Australia and Papua New Guinea on December 18, 1978. DE: international-agreements; fishery-regulations; ISEW,-Australia,-Torres-Strait; ISEW,-Papua-New-Guinea,-Torres-Strait CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565; Law,-Policy,-Economics-and-Social-Sciences-1121 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 0133549
Reproduction of the ornate rock lobster, Panulirus ornatus (Fabricius), in Papua New Guinea.

Migration of the ornate rock lobster, Panulirus ornatus (Eabricius), in Papua New Guinea.

PNG moves to protect spiny lobster fisheries.

Incubation of the eggs of the green sea turtle, Chelonia mydas-, in Torres Strait, Australia: the effect of movement on hatchability.
30 of 43 TI: A study of the species composition and distribution of commercial penaeid prawns of Torres Strait. AU: Somers,-I.F.; Poiner,-I.R.; Harris,-A.N. AF: Div. Fish. Res., CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1987. vol. 38, no. 1, pp. 47-61 NT: Special issue: Prawn ecology and biology. PY: 1987 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Fishermen's logbook data were used to described the distribution of fishing and the composition of the commercial catches in Torres strait. The species composition of the trawl surveys (48% tiger, 44% endeavour and 8% king) differed noticeably from that of commercial catch (60% tiger, 36% endeavour, 4% king). This difference was attributed to a combination of the commercial fishery's concentration on the higher-priced tiger prawns and the different spatial and temporal distribution of the species. Spatial differences in the species distributions were found to be associated with distribution of bottom sediments. DE: spatial-distribution; species-composition; fisheries-; stock-assessment; sediments-; fishing-effort; catch-composition; commercial-species; Penaeidae-; quantitative-distribution; species-diversity; ISEW,-Torres-Strait ID: Torres-Strait CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 1579865

31 of 43 TI: The presence of sand dunes in a tropical low energy zone, Friday Island, Torres Strait (Australia). AU: Swan.B.-(Dep.-Geogr.,-Univ.-New-England,-Armidale,-N.S.W.,-Australia) SO: Rev.-Geomorphol.-Dyn., 1979 28(2), 61-72 PY: 1979 LA: English PT: J (Journal-Article) AB: An attempt is made to account for the extraordinary presence of sand dunes on the small and sheltered Friday Island in the Torres Strait. Field work was supported by air photo and satellite imagery interpretation to provide data on the physical background of the island, characteristics of the dunes and sand sources. The presence of the dunes is attributed to a rare combination of conditions favouring their growth locally. DE: dunes-; geomorphology-; ISEW,-Australia,-Friday-Island ID: remote-sensing OZ: Pacific-Southwest (ISEW) AN: 0152260

32 of 43 TI: A review of chemical control of malaria vectors in the South-West Pacific region. AU: Sweeney,-A.W. AF: Army Malaria Res. Unit, RAAMC, Ingleburn, N.S.W. 2174, Australia SO: INTEGRATED-MOSQUITO-CONTROL-METHODOLOGIES.-VOLUME-1.-EXPERIENCE-AND-COMPONENTS-FROM-CONVENTIONAL-CHEMICAL-CONTROL. Laird,-M.;Miles,-J.W.-eds. 1983. pp. 143-159 IS: ISBN 0-12-434001-6 PY: 1983 LA: English PT: B (Book); O (Review-Article) ER: M (Marine); B (Brackish); F (Freshwater) AB: While malaria has been eradicated from Australia, the tropical north of the continent above 19 degree south latitude and the nearby Torres Strait Islands remain receptive to it. The four species of human malaria parasites, Plasmodium falciparum, P. vivax, P. malariae and P. ovale occur in this region, although the last named is very rare. The major vectors in the area are the species of the Anopheles punctulatus group: A. punctulatus Donitz, A. koliensis Owen, and A. farauti Laveran. Their larvae breed in surface water; those of A. punctulatus prefer temporary pools, whereas A. farauti utilizes a wide range of temporary and permanent fresh water habitats as well as coastal brackish water. The latter species has the widest distribution, being the only member of the group in Vanuatu and in northern Australia. Recent genetic studies have shown that it consists of three morphologically similar sibling species--A. farauti No.1, No.2, and No.3. DE: SouthWest-Pacific-Region; chemical-control; malaria-; vectors-; reviews-; Culicidae-; PSW,-South-Pacific CL: Environmental-Changes,-Conservation,-Public-Health-; Public-health,-medicines,-dangerous-organisms-1524 JA: Biological-Sciences-and-Living-Resources (Q1) OZ: Polar-Antarctic-Westward (PSW) AN: 0936330

33 of 43 TI: Quaternary uplift of the Torres Islands, northern New Hebrides frontal ARC: Comparison with Santo and Malekula islands, central New Hebrides frontal ARC. AU: Taylor,-F.W.; Jouannic,-C.; Bloom,-A.L. AF: Inst. Geophys., Univ. Texas, Austin, TX 78712, USA SO: J.-GEOLO., 1985. vol. 93, no. 4, pp. 419-438 PY: 1985 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Coral reef terraces on the Torres Islands have recorded the Quaternary uplift of part of the northern New Hebrides frontal arc. These isles lie mid-way between the volcanic chain and trench axis, where the Indian plate underthrusts the arc from the west. super(14)C and super(230)Th/ super(234)U ages for Torres fossil corals indicate that for approximately the past 100,000 years the islands uplifted at a constant rate ranging geographically from 0.7 to 0.9 mm/yr. The occurrence of similar uplift rates and
| ASFA 402 | 39 of 43 TI: Natural diet of the tiger prawns Penaeus esculentus and P. semisulcatus. AU: Wassenberg,-T.J.; Hill,-B.J. AF: Div. Fish. Res., CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1987. vol. 38, no. 1, pp. 169-182 NT: Special issue: Prawn ecology and biology. PY: 1987 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Foregut contents of 702 P. esculentus and 426 P. semisulcatus collected from seagrass and offshore habitats in the Gulf of Carpentaria, Torres Strait and Moreton Bay between December 1983 and March 1984 were analysed, and the numerical composition and frequency of occurrence of food items in diet were compared statistically. P. esculentus and P. semisulcatus appear to eat similar taxa of benthic fauna. Quantitative differences between the diets of both species Of prawns captured in the same trawl suggest that they are selective in their diet. Strong regional differences In diet were probably due to differences in the availability of prey. DE: diets-; Australia,-Coast; food-availability; niche-overlap; niches-; Penaeus-esculentus; Penaeus-semisulcatus; ISEW,-Australia CL: Autecology:-Nutrition-and-feeding-habits-1425 JA: Biological-Sciences-and-Living-Resources (Q1) AN: 1578635

| ASFA 403 | 43 of 43 TI: AFZ information bulletin. CA: Department of Primary Industry, Canberra (Australia). Australian Fish. Serv SO: AFZ-INF.-BULL. 1984. no. 26-29, vp NT: 4 issues published in 1984. PY: 1984 LA: English PT: B (Book); N (Numerical-Data) ER: M (Marine) AB: Foreign fishing vessel catch figures are presented for November, December 1983 and January 1985. The issue also includes articles giving details on the current state of bilateral and joint fishing arrangements with foreign interests, the use of carrier boats in the sashimi tuna industry, recent Australian-Indonesian maritime boundary talks, the prosecution of the masters of 2 licensed fishing vessels from Taiwan, the planned computer purchase by the Australian Fisheries Service, the proposed trilateral talks on international management of southern bluefin tuna and the recently concluded Torres Strait Treaty. DE: fishery-statistics; foreign-fishing; marine-fisheries; fishery-organizations; joint-ventures; Australia- CL: Practical-Aspects-of-Fisheries:-General-1561 JA: Biological-Sciences-and-Living-Resources (Q1) AN: 1402449

| ASFA 404 | 1 of 98 TI: A classification strategy for mapping trochus shell habitat in Torres Strait. Australia AU: Ahmad,-W.; Hill,-G.J.E. AF: Australian Key Cent. Land Inf. Stud., Dep. Geog. Sci. Plann., Univ. Queensland, St. Lucia, Qld. 4072, Australia SO: GEOCARTO-INT. 1994 vol. 9, no. 3, pp. 39-47 IS: ISSN 1010-6049 PY: 1994 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Trochus niloticus is a large, marine gastropod that is harvested from the coral reefs of Torres Strait, to the north of Australia. Prime habitat for the large, commercial size trochus is restricted to narrow zones of coral rubble and pavement on the windward edges of reefs. These areas are difficult to map and survey for trochus shell. Initial research demonstrated that Landsat TM imagery could be used to produce an accurate map of trochus habitat for a single reef. A methodology was then developed to transfer a classification mask, generated from this intensively surveyed reef to others in Bourke Group of islands. The procedure returned results that were within 2% to 12% (underestimates) of areal estimates based on fieldwork and air photo interpretation. This methodology offers potential as an accurate and cost effective way of monitoring habitat across the remote environments occupied by trochus. DE: ISEW,-Torres-Strait; Trochus-niloticus; marine-molluscs; shells-; satellite-sensing; ecological-distribution; habitat-selection; coral-reefs; fishery-technology CL: Fishable-stocks:-Surveying-and-prospecting-1602; Aquatic-Ecology:-Methods-and-instruments-1382; Aquatic-Communities:-Habitat-community-studies-1463 JA: Biological-Sciences-and-Living-Resources (Q1) AN: 1402449

Large volumes of freshwater and suspended material debouch from the Fly River in southwestern Papua New Guinea into the Gulf of Papua, greatly influencing the hydrography and sedimentary processes within the river delta and adjacent shelf region. Sedimentary facies within the subtidal regions of the Fly Delta are composed mainly of compacted and eroded very fine black sand, and highly laminated, muddy sand and sandy mud, processing to prodelta mud with intermixed primary and biogenic structures in the inner Gulf of Papua. These prodelta muds grade further to mixed terrigenous-carbonate deposits southwards into the northern Great Barrier Reef and Torres Strait, and to well-bioturbated, fluid mud northwards into the Gulf of Papua. Standing crops of bacteria (range: below detection limits–2.5 x 10 super(10) cells g super(-1) dry wt), meiofauna (range: 5-750 individuals 10 cm super(-2), 9-1006 mu g dry wt 10 cm super(-2)) and infauna (range: 86-5555 individuals m super(-2); 0.10-5.85 g AFDW m super(-2)) were generally lower in the delta than in the gulf. The infauna was dominated by nematodes, copepods, foraminifera and small, tube-building, deposit- and suspension-feeding polychaetes and amphipods. DE: nearshore-dynamics; bay-dynamics; sediment-dynamics; estuarine-dynamics; river-discharge; sedimentation; ISEW, Papua-New-Guinea, Fly-Estuary; ISEW, Papua-New-Guinea, Papua-Gulf CL: Geology-and-Geophysics: Sediments-and-sedimentation

406 ASFA 4 of 98 TI: Copper, lead, and zinc distribution in the sediments of the Fly River Delta and Torres Strait. AU: Baker, -E.K.; Harris, -P.T. AF: Ocean Sci. Inst., Univ. Sydney, Sydney, N.S.W. 2006. Australia SO: MAR.-POLLUT.-BULL. 1991. vol. 22, no. 12, pp. 614-618 PY: 1991 LA: English PT: J (Journal-Article) ER: M (Marine) AB: The concentration of heavy metals (copper, lead, and zinc) in the bottom sediments of the Fly River Estuary and offshore areas is predicted to increase as a result of mining activities in the Papuan highlands (Ok Tedi Mining Limited, 1988). The impact of such mining activities on the sediments of the area can only be properly assessed given the establishment of accurate background levels. This study is concerned with the distribution of copper, lead, and zinc in the sediments of the Fly Delta and adjacent continental shelf. Surficial sediment maps illustrate a predominance of biogenic carbonate sediments on the Shelf, contrasting with terrestrially derived mud in the vicinity of the Fly Delta (Harris and Baker, 1989). The sedimentation rate in the Fly Delta is typically 3-5 cm/yr, which contrasts markedly with the rate determined for deposits on the adjacent shelf, typically 0.02 cm/yr (Harris, 1991). In the present study metal concentrations determined for sediments from both the deltaic and shelf environments are presented. DE: sediments; marine-pollution; Papua-New-Guinea, Fly-R.-Delir; Australia, Torres-Strait; heavy-metals; copper; lead; zinc; heavy-metals; pollution-data; baseline-studies; thinning; distribution; ISEW, Papua-New-Guinea, Fly-R.-Delir; ISEW, Australia, Queensland, Torres-Strait ID: sediment-pollution CL: Pollution: Characteristics, behavior-and-fate-1503 JA: ASFA --3: Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: CS9202671 AN: 2658752


408 ASFA 7 of 98 TI: An economic survey of the Torres Strait prawn fishery. AU: Battaglene, -T.; Reid, -C.; Collins, -P. SO: AUST.-FISH. 1992. vol. 51, no. 7, pp. 28-31 IS: ISSN 0004-9115 PY: 1992 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Many Torres Strait prawn fishermen are failing to earn a viable return from their operations and are only just managing to survive, according to the findings of a recent ABARE economic survey. DE: marine-fisheries; shrimp-fisheries; fishery-economics; fishery-surveys; fishing-grounds; commercial-species; shellfish-catch-statistics; fishery-management; ISEW, Torres-Strait CL: Marketing, Economics-of-Aquatic-Products: Economics-1644 JA: ASFA --1: Biological-Sciences-and-Living-Resources (Q1) OZ:
| Page | ASFA | 8 of 98 TI: Geographical variation in allozyme frequencies of populations of Penaeus monodon (Crustacea: Decapoda) in Australia. AU: Benzie, J.A.H.; Frusher, S.; Ballment, E. AF: Australian Inst. Mar. Sci., P.M.B. 3, Townsville, Qld. 4810, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1992. vol. 43, no. 4, pp. 715-725 PY: 1992 LA: English IS: PT: J (Journal-Article) ER: M (Marine) AB: This first systematic survey of genetic variation in Penaeus monodon populations in Australia over a wide geographical range demonstrated highly significant differences in gene frequencies between the west-coast population and those on the northern and eastern coastlines. Some variation in gene frequencies among populations within the northern and eastern coastlines was detected in chi-square tests. Several loci (GPI super(*), PGM super(*) and MPI super(*)) contributed to the significant differences among populations. Genetic diversity decreased from east to west, suggesting colonization of the northern and western coasts by populations from the east after the last opening of the Torres Strait (c. 8000 BP). Evidence of genetic differences between western compared with northern and eastern populations is now available for three species of penaeid. These differences suggest, at least, that gene flow over several thousand years has been insufficient to erase genetic differences evolved during separation. Penaeid populations may therefore be more structured than has been thought, and the genetic homogeneity emphasized to date may be a result of the lack of genetic markers rather than a lack of population structure. DE: population-genetics; Penaeus-monodon; Australia-Coasts; geographical-distribution; proteins-; biogeography-; Australia-; enzyme-polymorphism; geographical-variations ID: geographical-variation; allozymes- CL: Population-Studies:-Population-genetics-1443; Carcinology:-Genetics-and-evolution-1285; Aquaculture:-Shellfish-culture-1583 JA: ASFA-1-1: Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) IC: CS9217959 AN: 2825990 |
| 409 | ASFA | 9 of 98 TI: A rising tide of aboriginal sea claims: Implications of the Mabo case in Australia AU: Bergin, A. AF: University Coll., Univ. New South Wales, Australian Def. Force Acad., Canberra, Australia SO: INT.-J.-MAR.-COAST.-LAW 1993 vol. 8, no. 3, pp. 359-371 IS: ISSN 0927-3522 PY: 1993 LA: English IS: PT: J (Journal-Article) ER: M (Marine) AB: On 3 June 1992 a majority of the High Court ruled in favour of Mr. Eddie Mabo and others in the claim against the Queensland government for recognition of their ownership of most of Mer, one of three islands in the Murray Group in eastern Torres Strait. In Mabo the court effectively overturned the long-held legal doctrine of terra nullius, which maintained that Australia was land belonging to no one prior to Crown acquisition of sovereignty. The High Court established that the people of Mer hold a "native title" to their island which is recognized under Australian law. The case has changed the political and legal setting in which indigenous issues are being considered in Australia. This article considers the question of whether native title rights apply to the traditional use of coastal and other waters. Are native title claims to areas beyond the foreshores--e.g. to the sea-bed and territorial sea areas--capable of determination on Mabo principles. DE: property-rights; legal-aspects; coastal-waters; ISEW,-Australia,-Queensland,-Murray-I. CL: Law,-Policy,-Economics-and-Social-Sciences:-General-2121; Law,-Policy,-Economics-and-Social-Sciences-1121 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2); ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: UN9300077 AN: 3028272 |
| 410 | ASFA | 10 of 98 TI: Spawning, recruitment and life history studies of Penaeus esculentus Haswell, 1879 in Torres Strait. AU: Blyth, P.J.; Watson, R.A.; Sterling, D.J. AF: University Coll., Univ. New South Wales, Australian Def. Force Acad., Canberra, Australia SO: TUR-STR-R-SM-TRAIN-PROJECT:-A-REVIEW-OF-RESEARCH-1986-88. Mellers, J.E.-ed. 1990. no. Q190018 pp. 38-50 IS: ISSN 0727-6273 ST: INF.-SER.-DEP.-PRIMARY-IND.-QUEENSL. no. Q190018 PY: 1990 LA: English IS: PT: B (Book) ER: M (Marine) AB: The findings are presented of a study conducted to obtain biological information on the spawning and recruitment timing of Penaeus esculentus in Torres Strait. Data from the year 1986 were used to describe a hypothetical life cycle for the species. P. esculentus had 3 major spawning periods in Torres Strait: January-March; August-September in the east; October-November in the west. Some juvenile prawns may recruit directly from the nursery areas on Warrior Reef into the fishery to the east, while the remainder migrate to the west, where they remain for 9 months or more before emigrating to the deeper waters east of Warrior Reef and recruit to the fishery. DE: Penaeus-esculentus; fishery-biology; life-history; spawning-; |
412 ASFA 11 of 98 TI: The peridomestic container-breeding mosquito fauna of Darnley Is. (Torres Strait) (Diptera: Culicidae), and the potential for its control by predacious Mesocyclops copepods. AU: Brown,-M.D.; Mottram,-P.; Fanning,-I.D.; Kay,-B.H. AF: Queensl. Inst. Med. Res., R. Brisbane Hosp. P.O., Qld. 4029, Australia SO: J.-AUST.-ENTOMOL.-SOC. 1992. vol. 31, no. 4, pp. 305-310 PY: 1992 LA: English LS: English PT: J (Journal-Article) ER: F (Freshwater) AB: Five species of mosquitoes were found breeding in peridomestic containers on Darnley Is. These were Aedes aegypti (L.), Ae. scutellaris (Walker), Culex quinquefasciatus Say, Cx. halifaxii Theobald, and Cx. annulirostris Skuse. Ae. aegypti constituted 59.6% and 92% of the mosquito fauna from large water storage containers in wet and dry seasons respectively. Ae. scutellaris was the most abundant species sampled from small containers at the end of the wet season, forming 56.8% of the fauna. During the dry season, Ae. aegypti was the most abundant species sampled from small containers, constituting 82.4% of the larvae in these sites. Breteau indices of 295 and 90 were calculated for Ae. aegypti breeding during the wet and dry season respectively. No Ae. scutellaris were sampled during the dry season, but the species exhibited a Breteau index of 270 during the wet season. Water tanks containing an indigenous undescribed Mesocyclops sp., contained significantly less mosquito larvae than those tanks without Mesocyclops. DE: containers-; breeding-sites; pest-control; Mesocyclops-; Culicidae-; Diptera-; Australia,-Queensland,-Darnley-I.; biological-control; Copepoda-; aquatic-insects CL: Productivity,-Ecosystems,-Species-Interactions:-Pests-and-control-1485 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) IC: CS9302576 AN: 2858522

413 ASFA 12 of 98 TI: The marine isopod Neocirolana Hale, 1925 (Crustacea: Cirolanidae) from tropical Australian waters AU: Bruce,-N.L. AF: Zool. Mus., Univ. Copenhagen, Universitetsparken 15, DK 2100, København O, Denmark SO: MEM.-QUEENSL.-MUS. 1994 vol. 37, no. 1, pp. 41-51 IS: ISSN 0079-8835 PY: 1994 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Two new species of Neocirolana are described from sub-littoral tropical waters of northern Australia: Neocirolana salebra sp. nov., from the Arafura Sea and Neocirolana tricistata sp. nov. from the vicinity of Torres Strait; new localities are also recorded for Neocirolana hermitensis (Boone, 1918) and N. excisa (Richardson, 1910). Observations indicate that Neocirolana hermitensis is a brood predator of hermit crabs. Comments are given on the current status of the genus, together with a list of all species and a key to the Indo-Pacific species. DE: Neocirolana-; ISEW,-Australia; new-species; marine-crustaceans; Isopoda-; identification-keys; check-lists; predation- CL: Carcinology:-Taxonomy-and-morphology-1283 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) IC: CS9302576 AN: 2858522

414 ASFA 15 of 98 TI: Pycnogonida of the Western Pacific Islands. 8. Recent collections from islands of the Great Barrier Reef, Australia. AU: Child,-C.A. AF: Dep. Invertebr. Zool., Natl. Mus. Nat. Hist., Smithsonian Inst., Washington, DC 20560, USA SO: PROC.-BIOL.-SOC.-WASH. 1990. vol. 103, no. 2, pp. 311-335 IS: ISSN 0006-324X PY: 1990 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Eleven pycnogonid species were known from the Great Barrier Reef of Australia, from Torres Strait to the vicinity of Gladstone. Fifteen species are added to the known number with nine species previously known from other localities and six species new to science. These were taken from islands in the northern section (Lizard Island) and the southern section (Heron Island) of the Barrier Reef. The six new species are Ammothella prolixa, Tanystylum haswelli, Seguapallene crassa, Nymphon draconis, Anoplodactylus brucei, and Rhychothorax vallatus. The new species are described and figured, the distribution of all species is included without conclusions concerning distribution patterns due to the paucity of this material and other records of Barrier Reef species, and remarks on species affinities are included. DE: new-records; Pycnogonida-; Ammothella-prolixa; Tanystylum-haswelli; Seguapallene-crasa; Nymphon-draconis; Anoplodactylus-brucei; Rhychothorax-vallatus; taxonomy-; animal-morphology; ISEW,-Great-Barrier-Reef ID: new-species CL: Invertebrate-Biology:-General:-Taxonomy-and-morphology-1243 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) IC: CS9508168 AN: 3712337 UD: 9006
| ASFA 415 | 16 of 98 TI: Application of a frictional channel flow theory to flow in the Prince of Wales Channel, Torres Strait AU: Clarke,-A.J. AF: Dep. Oceanogr., Florida State Univ., Tallahassee, FL 32306, USA SO: J.-PHYS.-OCEANOGR. 1990 vol. 20, no. 6, pp. 890-899 PY: 1990 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Turbulent flow is considered in a narrow, constant-depth channel connecting two basins having a time-dependent sea-level difference. The bottom stress is taken to be linear rather than quadratic in velocity, even when flows are quite strong. This approximation is justified theoretically by comparing appropriate linear and nonlinear solutions. Simple formulae are available for the depth-averaged current speed $u$ along the channel axis in terms of the sea-level gradient along that axis. Application of suitable mixing length theory shows that the stress should vary linearly with depth even for time-dependent flows. The mixing length theory predicts the current profile to be logarithmic near the bottom and slightly greater than logarithmic near the surface. The theory was applied to sea level tidal constants and some acoustic Doppler and ship drift measurements recently made in the Prince of Wales Channel, Torres Strait. Sea level gradients and tidal flows in the channel are large because the channel joins two very different tidal regions, one in the Gulf of Carpentaria and the other in the Coral Sea. In accordance with the theory, the channel is short enough that tidal constants vary linearly down the channel. The simple formulae for $u$ model the data reasonably well and clarify and improve previous tide table estimates. Depth averaged currents peak at about 2 m/s and have a root mean squared depth averaged velocity of 0.74 m/s. The bottom stress resistance coefficient $r$, the drag coefficient $c_{sub}(D)$ and roughness length $z_{sub}(0)$ take the large values 4.8 x $10^{3}$ m/s, 5.3 x $10^{3}$ and 0.029 m. DE: channel-flow; turbulent-flow; ISEW,-Torres-Strait,-Prince-of-Wales-Channel; sea-level-variations; tidal-effects; current-velocity; ISEW,-Australia,-Carpentaria-Gulf; ISEW,-Coral-Sea; hydrodynamic-equations CL: Dynamical-Oceanography-and-Limnology:-Ocean-circulation-and-currents:2164 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: CS9420187 AN: 3639845

| ASFA 416 | 17 of 98 TI: Management and status of the Queensland pearl fishery AU: Coles,-R. AF: Queensland Dep. Primary Ind., Northern Fish. Cent., Cairns, Qld. 4870, Australia CO: Queensland Pearl Industry Workshop, Thursday Island, Qld. (Australia), 22 Jun 1994 SO: DEVELOPING-THE-TORRES-STRAIT-AND-QUEENSLAND-EAST-COAST-PEARL-INDUSTRY-1994-INDUSTRY-WORKSHOP. Golden,-S.;Turnbull,-C.;Coles,-R.-eds. BRISBANE,-QLD.-AUSTRALIA DEPARTMENT-OF-PRIMARY-INDUSTRIES 1994 no. QC94006 pp. 1-8 IS: ISBN 0-7242-5891-4 ISSN 0729-2597 ST: CONF.-WORKSHOP-SER.-DEP.-PRIMARY-IND.-QUEENSL. no. QC94006 PY: 1994 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: The Queensland pearl fishery has a low profile, partly because it operates in the far north of the state and in remote locations, partly because the product is marketed generically as 'Australian' or 'South Sea' pearls. Still, interest is high in the region and despite the administrative difficulty of establishment, the number of licensed farms has almost tripled since 1980. A major problem is to locate sufficient stocks of healthy mature shell; establishment of hatcheries may be a partial solution. Shell mortality has threatened the viability of farms. New administrative arrangements have improved the accessibility of statutory managers to farmers. There is a need now for the establishment of an industry association to exploit this new opportunity. DE: pearl-culture; pearl-fisheries; fishery-management; aquaculture-enterprises; Pinctada:-Australia,-Queensland; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland,-Torres-Strait CL: Aquaculture:-Shellfish-culture:-1583; Fishable-stocks:-General:-1601; Aquaculture:-Shellfish-culture:-1583 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) IC: AU9500600 AN: 3746456 UD: 9509

| ASFA 417 | 18 of 98 TI: Evaluating pearl shell habitat in Torres Strait and the Arafura Sea AU: Colgan,-K. AF: Bur. Resour. Sci., John Curtin House, P.O. Box E11, Queen Victoria Terrace, A.C.T. 2600, Australia CO: Pearls '94. Int. Pearl Conf., Honolulu, HI (USA), 14-19 May 1994 SO: J.-SHELLFISH-RES. 1994 vol. 13, no. 1, p. 332 IS: ISSN 0077-5711 NT: Abstract only. PY: 1994 LA: English PT: J (Journal-Article); K (Conference); Y (Summary) ER: M (Marine) AB: Stocks of pearl shells have declined markedly in the Torres Strait and the Arafura Sea. Extensive surveys of historically important pearling beds were carried out in 1989. Environmental factors associated with presence/absence and abundance of pearl shell were monitored and relationships
modelled. DE: ISEW,-Torres-Strait; ISEW,-Arafura-Sea; stock-assessment; pearl-oysters; biological-surveys CL: Fishable-stocks:-Stock-assessment-and-management-1604; Aquaculture:-Shellfish-culture-1583 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) OZ: Pacific-Southwest (ISEW) IC: CS9511314 AN: 3718853 UD: 9506

418 ASFA 19 of 98 TI: Aedes albopictus (Skuse) (Diptera: Culicidae) in the western province of Papua New Guinea and the threat of its introduction to Australia AU: Cooper,-R.D.; Waterson,-D.G.E.; Kupo,-M.; Sweeney,-A.W. AF: Army Malaria Res. Unit, Liverpool Military Area, N.S.W. 2174, Australia SO: J.-AUST.-ENTOMOL.-SOC. 1994 vol. 33, no. 2, pp. 115-116 IS: ISSN 0004-9050 PY: 1994 LA: English PT: J (Journal-Article) ER: F (Freshwater) AB: In the Western Province of Papua New Guinea populations of the dengue vector Aedes albopictus were found in Daru and Kiunga, but not in three coastal villages opposite the Torres Strait Islands. The implications of these findings with regard to the possible introduction of this mosquito to Australia are discussed. DE: dengue-; vectors-; pest-status; Aedes-albopictus; Australia-; New-Guinea; aquatic-insects; biological-vectors; public-health; disease-transmission; Papua-New-Guinea,-Western-Prov.; human-diseases; Diptera- ID: dengue-fever CL: Environmental-Changes,-Conservation,-Public-Health:-Public-health,-medicines,-dangerous-organisms-1524 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) IC: CS9422449 AN: 3645208 UD: 9503

419 ASFA 20 of 98 TI: Severe mortality in a breeding population of ornate rock lobster Panulirus ornatus (Fabricius) at Yule Island, Papua New Guinea. AU: Dennis,-D.M.; Pitcher,-C.R.; Prescott,-J.H.; Skewes,-T.D. AF: CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: J.-EXP.-MAR.-BIOL.-ECOL. 1992. vol. 162, no. 2, pp. 143-158 PY: 1992 LA: English PT: J (Journal-Article) ER: M (Marine) AB: Ornate rock lobsters Panulirus ornatus , which emigrate from Torres Strait (north-east Australia) to breed each year, support a seasonal artisanal lobster fishery at Yule Island (eastern Gulf of Papua). The catches are highest in mid-January through mid-February, but then decline rapidly, so by late-March virtually no lobsters remain. It has been hypothesised that most of the decline in catch is due to natural mortality caused by the stress of migrating and breeding. However, there are alternative explanations: fishing mortality may be extremely high, or lobsters may move to deeper habitat, not accessible to divers. These hypotheses were examined through a combination of deploying tangle nets in deep water near the main fishing area, daily monitoring of the catch and effort of the artisanal fishery, a tag-recapture study and daily assessment of physiological condition, using the water content of the hepatopancreas as an index. DE: mortality-causes; fishing-mortality; Panulirus-ornatus; ISEW,-Papua-New-Guinea,-Yule-I.; population-dynamics; commercial-species; lobster-fisheries; breeding-; spawning-migrations; mortality-; Papua-New-Guinea CL: Population-Studies:-Population-dynamics-1442; Carcinology:-General-1281 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9219950 AN: 2839686


conducted to describe the movements and growth of *Penaeus esculentus* in Torres Strait. The prawns were tagged during 2 periods in 1987: 19-25 January and 18-23 February. Size data, return rates, movement and growth observations are discussed.

DE: tagging-; local-movements; population-dynamics; *Penaeus-esculentus*; ISEW,-Torres-Strait ID: shrimp-fisheries CL: Autecology:-Migrations-and-rhythms-1421; Fishable-stocks:-General-1601 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9100945 AN: 2473216

**422 ASFA** 23 of 98 TI: A per-recruit simulation model for evaluating spatial closures in an Australian penaeid fishery AU: Die,-D.J.; Watson,-R.A. AF: Queensland Dep. Primary Ind., Southern Fish. Cent., P.O. Box 76, Deception Bay 4508, Australia SO: AQUAT.-LIVING-RESSOUR.-RESSOUR.-VIVANTES-AQUAT. 1992 vol. 5, no. 3, pp. 145-153 IS: ISSN 0990-7740 PY: 1992 LA: English LS: English; French PT: J (Journal-Article) ER: M (Marine) AB: Spatial closures are commonly used by Australian fisheries managers to alter fishing patterns. To evaluate different fishing closures, however, fishery scientists have to understand and model the spatio-temporal interactions between fish stocks and fishing fleets. We develop a deterministic, stationary, per-recruit, age-structured simulation model to assess different spatial closure strategies, and use date from the Torres Strait tiger prawn fishery, *Penaeus esculentus*, as a working example. Our results show that selection of an optimum spatial closure largely depends on the relative importance given to changes of the different utility functions evaluated (yield, value, egg production). We show that, on average, with a spatial closure yield-per-recruit would decrease, but also show that value-per-recruit may increase 10% with the appropriate closure. Our results suggest that egg-per-recruit would always increase in the presence of a closure. By incorporating parameter uncertainty within the simulation model we predict the uncertainty associated with alternative closure strategies, and thus provide valuable information for the decision-making process. DE: fishery-management; catching-methods; shrimp-fisheries; simulation;-modelling;-spatial-closures; *Penaeus-esculentus*; Australia:-ISEW,-Torres-Strait ID: per-recruit-analysis CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: IF9300015 AN: 3017253

**423 ASFA** 24 of 98 TI: Metal accumulation in the clam *Tridacna crocea* under natural and experimental conditions AU: Duquesne,-S.J.; Coll,-J.C.* AF: Cent. Queensland Univ., Rockhampton, Qld. 4702, Australia SO: AQUAT.-TOXICOL. 1995 vol. 32, no. 2-3, pp. 239-253 IS: ISSN 0166-445X PY: 1995 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Clams (*Tridacna crocea*) were collected from three sites in the Torres Strait along a transect from the mouth of the heavily polluted Fly River towards the south. The concentrations of Cu, Cd and Zn in different organs of the clams were determined and, with the exception of Cd levels in the gills and mantle, were found to decrease with increasing distance from the river outfall. The levels of metals in the clam tissues, however, fall within a similar range of values found in control clams collected from Orpheus Island. In addition, the rates of metal bioaccumulation in clams were studied under laboratory conditions. Experiments carried out with either Cd (0.20 mg/l) or Cu (0.06 mg/l) in seawater revealed a linear uptake of metal throughout the experimental period in different clam organs. The highest accumulation rates were found in the kidney and the lowest in the muscle. The accumulation rate of Cd was higher in the mantle than in the gills, whereas the inverse was found for Cu. Cu treatment resulted in significant expulsion of the symbiotic zooxanthellae from the mantle, a recognized stress response. In clams collected from the wild, the concentration of renal metal-binding proteins (metallothionein-like proteins) increased with the levels of total metal in the kidneys, and indirectly reflected the environmental levels. DE: ISEW,-Torres-Strait; ISEW,-Australia,-Queensland; *Tridacna-crocea*; heavy-metals; bioaccumulation;-zooxanthellae;-pollution-effects; Australia,-Queensland; water-pollution; clams;-water-pollution-effects CL: Pollution:-Effects-on-organisms-1504 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: CS9516889 AN: 3777764 UD: 9512

Torres Strait, separating northern Australia from Papua New Guinea, to investigate concentration levels of various metals within the sediments and their biota and a range of organisms either consumed locally or exported. The study was initiated as a result of the concern by the Torres Strait Islanders in the mid-1980s regarding the possible effect of copper and gold mines which had been established adjacent to the Fly River and its catchment in Papua New Guinea. During the monsoon season the prevailing winds tend to direct the river outflows from the Fly River into northern Torres Strait. A pilot study was initially carried out and showed that sediments in Torres Strait are a mixture of those deposited from the Fly River and those derived from marine sources. Northern Torres Strait sediments appear to be derived primarily from the Fly River whereas sediments in other parts of the Strait are marine-derived sediments. Trace metals were elevated in some seafoods consumed by the Islanders, and levels of copper might be a result of discharge from the mines. However, trace metal levels in biota varied both spatially and seasonally in some areas. Basically the pilot study has shown that the Fly River is a periodic source of fine sediments containing a suite of trace metals and a number of species have been shown to be potentially useful as indicators of variations in trace metals. This study has allowed a more extensive study to be carried out and the complex results are currently being analysed. In addition they recommend that another survey should be carried out concentrating on rates of consumption of those foods shown to have high levels of some trace metals. The study is also important as local Islanders were involved in all stages of the development and undertaking of the survey.

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27 of 98 TI: A survey of the diseases of marine turtles in northern Australia. 1. Farmed turtles. AU: Glazebrook, J.S.; Campbell, R.S.F. AF: Grad. Sch. Trop. Vet. Sci. and Agric., James Cook Univ., Townsville, Qld. 4811, Australia SO: DIS.-AQUAT.-ORG. 1990. vol. 9, no. 2, pp. 83-95 PY: 1990 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: A total of 104 farmed turtles (102 Chelonia mydas and 2 Eretmochelys imbricata) were examined for signs of clinical disease. They were obtained from the Torres Strait where they were housed in 250 l fibreglass tanks and 50 l plastic basins and fed a diet of fish by islanders. Altogether, 28 diseases were diagnosed including 12 bacterial, 4 parasitic and 4 nutritional diseases. Less common were those of genetic and environmental origin. Skin lesions due to biting (traumatic ulcerative dermatitis) were almost universal in farmed turtles. Morbidity and mortality rates of 100 and 30%, respectively, were recorded in the first month of life. Juveniles and yearlings rarely succumbed to the disease. Cultures of lesion material yielded a variety of bacteria viz Vibrio alginolyticus, Pseudomonas fluorescens, Flavobacterium sp., Micrococcus sp. and Bacillus sp. Ulcerative stomatitis was the most important bacterial disease of farmed turtles after traumatic ulcerative dermatitis. Focal pneumonia was characterised by nodular lesions in the apical or medial portion of the lung. Microscopic sections and cultures showed bacteria were mainly responsible V. alginolyticus, Aeromonas hydrophila, Flavobacterium sp. and Pseudomonas sp. were isolated. DE: aquaculture-; Australia,-Queensland,-Torres-Strait; aquatic-bacteria; Vibrio-alginolyticus; Pseudomonas-; Flavobacterium-; Micrococcus-; Bacillus-; Aeromonas-; disease-detection; bacterial-diseases; Chelonia-mydas; Eretmochelys-imbricata; histopathology-; ISEW,-Australia,-Queensland,-Torres-Strait ID: Aquaculture:-Culture-of-other-aquatic-animals-1584 JA: ASFA --1:- Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) OZ: Pacific-Southwest (ISEW) IC: CS9106760 AN: 2448940

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30 of 98 TI: By-catch of the prawn fishery of Torres Strait: Composition and partitioning of the discards into components that float or sink. AU: Harris, A.N.; Poineer, I.R. AF: Div. Fish., CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1990. vol. 41, no. 1, pp. 37-52 NT: Special issue: The effects of fishing. PY: 1990 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: The quantity and composition of the by-catch from commercial prawn trawling in Torres Strait, Australia, were assessed from the results of seven trawl surveys and the fishery effort from log-book records, over 2...
years. The total weight of by-catch caught in the fishery was estimated at 6930 t (plus or minus 900 t) in 1985 and 4630 t (plus or minus 710 t) in 1986. A wide range of marine organisms including cephalopods, crabs, rock lobsters, scallops, sharks, rays, snakes and turtles were caught, but teleost fishes were the largest component: 5520 t (plus or minus 970 t) in 1985 and 2910 t (plus or minus 510 t) in 1986. Samples of the Torres Strait trawl by-catch from trawl surveys in 1988 were used to estimate the component of the by-catch which floated (available to surface predators) and that which sank (available to mid-water and demersal predators and scavengers). Most of the discards sank (similar to 70%) but an estimated 40% of the teleost catch (1200-2200 t) floated. Of the teleosts, over 75% of the Apogonidae, Nemipteridae, and Monacanthidae floated, whereas all Synodontidae, Mullidae and Bothidae sank. DE: ocean-dumping; shrimp-fisheries; by-catch; Pisces.; ISEW,-Australia,-Torres-Strait; floating.; sinking.; waste-disposal; community-composition ID: fish-wastes CL: Fishable-stocks:-Fishery-statistics-and-sampling-1603 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 2310665

| 427 | ASFA | 31 of 98 TI: Heavy metal pollution. AU: Harris,-P. SO: PAK.-SEAFOOD-DIG. 1992. vol. 5-6, no. 12-1, p. 13 NT: AIC HD9466.P32P35. PY: 1992 LA: English PT: J (Journal-Article) ER: M (Marine); B (Brackish); F (Freshwater) AB: Work carried out by the Ocean Sciences Institute (OSI) at the University of Sydney suggests that the Fly River (Papua New Guinea) sediment is transported in suspension into the Great North East Channel fishing grounds, where inorganic land-derived muds comprise up to 40% of the bottom sediments. Background metal levels in the water, bottom sediments and fauna of the Torres Strait and the Fly River delta are as yet unknown. Also, it is not yet known if the Fly River sediment presently reaching Torres Strait is in fact "polluted". OSI scientists have recently completed a cruise on board HMAS Flinders, collecting sediment and water samples and information on currents in the Warrior Reef area. The samples will be examined for their heavy metal content and the movement of sediments will be studied. The information gathered will help the Australian fishing industry and Government authorities to more effectively manage the Torres Strait fisheries. DE: pollution-effects; heavy-metals; fishery-industry; environmental-impact; waste-disposal; marine-environment; bioaccumulation.; ISEW,-Australia,-Queensland,-Torres-Strait; ISEW,-Papua-New-Guinea,-Fly-R.-Delta; sediment-pollution CL: Pollution:-Effects-on-organisms-1504; Practical-Aspects-of-Fisheries:-General-1561 JA: ASFA --3:-Aquatic-Pollution-and-Environmental-Quality (Q5); ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9212050 AN: 2761260 |

| 428 | ASFA | 32 of 98 TI: Reversal of subtidal dune asymmetries caused by seasonally reversing wind-driven currents in Torres Strait, northeastern Australia. AU: Harris,-P.T. AF: Ocean Sci. Inst., Univ. Sydney, Sydney, N.S.W. 2006, Australia SO: CONT.-SHELF-RES. 1991. vol. 11, no. 7, pp. 655-662 IS: ISSN 0278-4343 PY: 1991 LA: English PT: J (Journal-Article) ER: M (Marine) AB: Large subtidal sand dunes (sandwaves) located in Adolphus Channel, Torres Strait, have been observed to reverse their asymmetric orientation between Sep-Feb. This has been attributed to a reversal in wind-driven currents, which flow westward during the SE trade season (Apr-Nov) and eastwards during the NW monsoon season (Dec-Mar). Observations in Sep 1988 and Feb 1989 from another area of dunes in Torres Strait corroborate this asymmetry reversal pattern. The results indicate that such reversals may be common in Torres Strait and in other areas where subtidal bedforms are subject to modification by superimposed, seasonally reversing, wind-driven currents. DE: sand-waves; seasonal-variations; current-reversal; ISEW,-Australia,-Torres-Strait ID: wind-driven-currents CL: Geology-and-Geophysics:-Sediments-and-sedimentation-2264 JA: ASFA --2:-Ocean-Technology,-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: MB9100991 AN: 2526735 |

| 429 | ASFA | 33 of 98 TI: Fate of discards from prawn trawlers in Torres Strait. AU: Hill,-B.J.; Wassenberg,-T.J. AF: CSIRO Div. Fish., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1990. vol. 41, no. 1, pp. 53-64 NT: Special issue: The effects of fishing. PY: 1990 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: A study was made of the fate of teleosts, non-commercial crustaceans and cephalopods discarded from trawlers in Torres Strait. These groups make up about 80% of the discards by weight, have a high mortality rate and are therefore the most likely animals to be eaten by scavengers. The remaining 20% of discards consists of animals such as turtles, sharks, bivalves and sponges, |
which are caught in low numbers and appear to have low mortality from trawling. Fish made up 78%, non-commercial crustaceans 18% and cephalopods 3% by weight of the material studied. Nearly all fish were dead when discarded, and about half sank. About half of the non-commercial crustaceans were alive when discarded and all sank when discarded. Few cephalopods (2%) were alive when discarded, and around 75% sank. Sharks and dolphins were the most common scavengers of floating discards at night. Birds scavenged only during the day. Discards that sank did so rapidly, taking less than 5 min to reach 25 m depth. A high rate of loss of baits set for 10 min in the water column (24% in trawled area at night) indicated significant scavenging in midwater-probably by sharks. Observations of baits set on the bottom showed that teleosts (nemipterids) and sharks ate most of the material that reached the bottom; scavenging by invertebrates was negligible. DE: scavengers-; fish-wastes; ocean-dumping; by-catch; Teleostei-; marine-birds; trawlers-; waste-disposal; fate-; ISEW,-Australia,-Torres-Strait ID: shrimp-fisheries CL: Fishable-stocks:-Fishery-statistics- and-sampling-1603 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 2310629


431 ASFA 37 of 98 TI: The Torres Strait Treaty: A decade in perspective AU: Kaye,-S. AF: Univ. Sydney Sch. Law, Australia SO: INT.-J.-MAR.-COAST.-LAW 1994 vol. 9, no. 3, pp. 311-336 IS: ISSN 0927-3522 PY: 1994 LA: English PT: J (Journal-Article) ER: M (Marine) AB: The maritime boundary between Australia and Papua New Guinea presents much interest in the study of maritime delimitation. In that context, the present note examines the following: the unusual geographic relationship between the two states, which sees inhabited Australian islands separated from the Papua New Guinea mainland by a shallow stretch of water less than five miles wide; the treaty which delimits the boundary, and which represents one of the most creative delimitation agreements in existence; the Torres Strait, an important sea line which is within the area in which the treaty applies; the Murray Islands, whose residents mounted a successful challenge to the application of the doctrine of terra nullus to the settlement of Australia. In addition, the note discusses the relevance of the Mabo Case to the boundary. DE: boundaries-; ocean-space; bilateral-agreements; international-agreements; ISEW,-Australia; ISEW,-Papua-New-Guinea; ISEW,-Torres-Strait; Australia-; Papua-New-Guinea CL: Law,-Policy,-Economics-and-Social-Sciences:-Legislation-2122; Law,-Policy.-Economics-and-Social-Sciences-1121 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2); ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: UN9400095 AN: 3692983 UD: 9506

432 ASFA 38 of 98 TI: Reproductive biology of Penaeus esculentus Haswell, 1879 and Metapenaeus endeavouri (Schmitt, 1926) in Torres Strait. AU: Keating,-J.A.; Watson,-R.A.; Sterling,-D.J. SO: TORRES-STRAIT-PRAWN-PROJECT:-A-REVIEW-OF-RESEARCH-1986-88. Mellors,-J.E.-ed. 1990. no. Q190018 pp. 51-61 IS: ISSN 0727-6273 ST: INF.-SER.-DEP.-PRIMARY-IND.-QUEENSL.. no. Q190018 PY: 1990 LA: English PT: B (Book) ER: M (Marine) AB: An investigation was made of the reproduction dynamics of Penaeus esculentus and Metapenaeus endeavouri in order to aid study of spawning behavior for future management of the Torres Strait fishery. Size at maturity, population fecundity index, insemination and spawning seasonality were examined for both species. It was found that the population fecundity index was a useful method for assessing the reproductive potential of a population and it is suggested that its use in fisheries management for predicting spawning periods, stock recruitment and catches could assist in seasonal and area closures. DE: fishery-biology; population-dynamics; reproduction-; fishery-management; Penaeus-esculentus; ISEW,-Torres-Strait ID: shrimp-fisheries CL: Population-Studies:-Population-dynamics-1442; Fishable-stocks:-General-1601 JA: ASFA --1:-Biological-Sciences-and-Living-
433 ASFA 39 of 98 TI: Recent evolution of population structure in Australian barramundi, *Lates calcarifer* (Bloch): An example of isolation by distance in one dimension AU: Keenan, C.P. AF: Southern Fish. Cent., PO Box 76, Deception Bay, Qld 4508, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1994 vol. 45, no. 7, pp. 1123-1148 IS: ISSN 0067-1940 PY: 1994 LA: English LS: English PT: J (Journal-Article) ER: M (Marine); B (Brackish) AB: New and previously published genetic data from 6000 barramundi comprising 50 collections across tropical Australia were analysed for evidence of population subdivision. Sixteen discrete populations were identified, including four populations that were identified from new collections. Duplicate collections from two localities were statistically homogeneous after seven years between collections. Environmental and genetic factors that yielded the observed genetic pattern were investigated. Geological evidence of sea-level changes, when compared with bathymetry data for the region, reveals that barramundi must have recently recolonized many of the coastal estuaries of tropical Australia. This recolonization resulted from the inundation of the Gulf of Carpentaria and Torres Strait by a rapid rise in sea level of at least 130 m between 18 000 and 6 000 years ago. The genetic data clearly indicate that, as the population spread into new habitats, there was a corresponding decrease in genetic diversity. This observed decrease has been maintained despite continued migration between populations. The 'one-dimensional stepping stone' migration model, which most closely fits the observed population structure, predicts that the observed level of population subdivision (F<sub>ST</sub> = 0.064) is maintained against substantial gene flow between adjacent populations. This contrasts with the predictions of the often-used 'island model' which gives estimates of N<sub>e</sub> at least two orders of magnitude lower than those from the one-dimensional stepping-stone model. DE: population-structure; subpopulations-; *Lates-calcarifer*; population-genetics; estuarine-organisms; Australia-Coasts; Australia-; ecological-genetics CL: Population-Studies:-Population-genetics-1443; Ichthyology:-Genetics-and-evolution-1345 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) IC: CS9507780 AN: 3719293 UD: 9506


435 ASFA 41 of 98 TI: Method of estimating the standing stock of *Trochus niloticus* incorporating Landsat satellite data, with application to the trochus resources of the Bourke Isles, Torres Strait, Australia. AU: Long, B.G.; Poiner, I.R.; Harris, A.N.M. AF: CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: MAR.-BIOL. 1993. vol. 115, no. 4, pp. 587-593 IS: ISSN 0025-3162 NT: Bibliogr.: 25 ref. PY: 1993 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: The habitat of *Trochus niloticus* in the Bourke Isles, Torres Strait, was classified into areas of a Landsat image, using high-ratio values of green (Band 2) to red (Band 3) light, along the windward reef margins. These shallow-water (< 15 m) areas have a coral and rubble algal pavement cover, which constitutes the optimal habitat for this gastropod. The habitat was sampled to estimate the abundance of *T. niloticus*. The proportion of commercial-sized individuals was estimated by measuring the basal width of all
individuals in a sample. A multistage sample design incorporating three spatial scales---100 m super(2) (transect), 1500 m super(2) (site) and 1 km super(2) (reef) -- was used to provide variance estimates for sample-design optimisation and to provide data on the spatial variation of abundance. Most variation (68%) in abundance was within reefs and was attributable to differences in reef cover. Variations in abundance and time costs for sampling 2 and 4 m transects were compared; the 2 m transect was more efficient than the 4 m transect. The abundance estimates were combined with habitat-area estimates and the proportion of commercial-sized individuals was estimated at a standing stock of 186,000 (24% precision), or 14 t of commercial-sized T. niloticus.


436 ASFA 42 of 98 TI: Geographic information systems helps manage Torres Strait fisheries AU: Long,-G.; Skewes,-T.; Poiner,-I.; Bishop,-M. AF: CSIRO Div. Fish., Cleveland, P.O. Box 120, Qld. 4163, Australia SO: AUST.-FISH. 1994 vol. 53, no. 2, pp. 14-15 IS: ISSN 0004-9115 PY: 1994 LA: English PT: J (Journal-Article) ER: M (Marine) AB: GIS is designed to store, display, edit, query and report on vast amounts of fisheries related information in an easily used system, the only proviso being that the information must have a longitude and latitude—or spatial dimension. This is not a new concept since we all use and process spatial information daily, for example, where things are and how they relate to each other. What is new, however, is the recent development of accessible computer technology that puts vast amounts of spatial information within reach of potential users, without the need for extensive technical training. DE: computer-programs; geographical-reference-systems; fishery-management; atlases-; fishery-charts; fishery-technology; ISEW,-Torres-Strait CL: Practical-Aspects-of-Fisheries:-Fishery-charts,-grounds-and-water-areas-1566 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9408165 AN: 3545150


438 ASFA 46 of 98 TI: Biogeography of the tropical seagrasses in the western Pacific. AU: Mukai,-H. AF: Akkeshi Mar. Biol. Stn., Hokkaido Univ., Aikappu, Akkeshi, Hokkaido 088-11. Japan SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1993. vol. 44, no. 1, pp. 1-17 IS: ISSN 0067-1940 NT: Special issue: Tropical Seagrass Ecosystems. PY: 1993 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Seagrass species and their distributions were recorded from 18 localities in the tropical and subtropical Pacific. These field observations were collated with a review of the recent literature, enabling the present distribution patterns of seagrass species in the western Pacific to be described and the origin of those species to be discussed in relation to the major oceanic currents of the region. The major tropical seagrasses of the western Pacific are
Thalassia hemprichii, Enhalus acoroides, Cymodocea rotundata, C. serrulata, Halodule uninervis, Syringodium isoetifolium and Thalassodendron ciliatum, with T. hemprichii and E. acoroides being the two most widely distributed species. Species are found in coastal waters along the Equatorial Countercurrent and the Kuroshio and East Australian Currents. The highest number of seagrass species occurs in the coastal waters of Malesia enclosed by Indonesia, Borneo, Papua New Guinea and the Torres Strait (northern Australia). This area is considered to be the source of all of the seagrass species of the western Pacific, i.e. the centre of their origin. A relationship between the distance from this centre of origin along the above three major ocean currents and the diversity of seagrass species was found: the further from the origin, the poorer the seagrass diversity. These observations support the centre-of-origin theory that was first proposed by den Hartog to describe the processes responsible for the present distribution patterns of seagrasses in the western Pacific. DE: aquatic-plants; geographical-distribution; dispersion-; water-temperature; evolution-; literature-reviews; ocean-currents; sea-grass; ISEW-; biogeography-; Pacific-Ocean,-West; seagrasses-

439 ASFA 47 of 98 TI: Turbidity in Torres Strait AU: Mulhearn,-P.J. CA: Weapons Systems Research Lab., Adelaide (Australia) SO: 1989 40 pp NT: NTIS Order No.: AD-A223 4477/4/GAR. RN: WSR-TM-35/89, DODA-AR-005-921 (DODAAR005921) PY: 1989 LA: English LS: English PT: R (Report) ER: M (Marine) AB: The turbidity in the eastern half of Torres Strait, along with other relevant variables, was investigated in two oceanographic cruises in early 1988. Turbidity was high and variable and a regression equation has been developed relating Secchi disc depth (and thence underwater visibility range) to water depth and wind speed. This equation covered 71% of the rms variation in Secchi disc depth. Turbidity was approximately constant with depth in weakly stratified waters, except when they were particularly turbid (attenuation coefficient > 1.0/m) and then turbidity generally increased with depth with, in some cases, maxima or minima occurring within the water column. Where the temperature and salinity varied markedly with depth a more turbid lower layer was also present. On the second cruise there was a significant correlation between salinity and turbidity in the central waters of eastern Torres strait which had low salinity, and the possible origin of this low salinity water body is discussed. (DBO) DE: ISEW,-Torres-Strait; turbidity-; physical-oceanography; optical-properties CL: Underwater-Optics:-Optical-properties-2223 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: NO9500218 AN: 3663220 UD: 9503


441 ASFA 49 of 98 TI: Rich traditions and isolation in Torres Strait AU: Nicoll,-R. SO: AUST.-FISH. 1993 vol. 52, no. 7, pp. 19-20 IS: ISSN 0004-9115 PY: 1993 LA: English PT: J (Journal-Article) ER: M (Marine) AB: The Islands and reefs of the Torres Strait are home to isolated indigenous communities with rich traditions and cultural heritage, and to a diversity of marine life. A bilateral Treaty, Protected Zone and a separate Fisheries Act make the Torres Strait fishery unlike any other in Australia. DE: international-
| Page | ASFA  | 53 of 98 TI: Papovavirus-like infection of the golden-lipped pearl oyster, Pinctada maxima, from the Torres Strait, Australia AU: Norton, J.H.; Shepherd, M.A.; Prior, H.C. AF: Oonoonba Vet. Lab., Queensland Dep. Prim. Ind., P.O. Box 1085, Townsville, Qld. 4810, Australia SO: J.-INVERTEBR.-PATHOL. 1993 vol. 62, no. 2, pp. 198-200 IS: ISSN 0022-2011 PY: 1993 LA: English PT: J (Journal-Article) ER: M (Marine) AB: During a routine examination of adult golden-lipped pearl oysters, Pinctada maxima, fished from Torres Strait in northern Australia, large intranuclear inclusions were seen in epithelial cells of the labial palps of two oysters. Subsequently virus-like particles were demonstrated in these lesions. This appears to be the first report of an apparent virus infection in the pearl oyster, P. maxima. DE: Pinctada-maxima; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland; viral-diseases; marine-molluscs; new-records; papovavirus-; Australia-; marine-organisms CL: Productivity,-Ecosystems,-Species-Interactions:-Parasites-and-diseases-1484 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) IC: CS9417741 AN: 3622347 |
| 442 | ASFA  | 54 of 98 TI: An overview of pearl production techniques in Australia AU: O’Sullivan, D.; Cropp, D. AF: Key Cent. Teaching Res. Aquacult., Univ. Tasmania, P.O. Box 1214, Launceston, Tas. 7250, Australia CO: Pearls ‘94. Int. Pearl Conf., Honolulu, HI (USA), 14-19 May 1994 SO: J.-SHELLFISH-RES. 1994 vol. 13, no. 1, p. 348 IS: ISSN 0077-5711 NT: Abstract only. PY: 1994 LA: English PT: J (Journal-Article); K (Conference); Y (Summary) ER: M (Marine) AB: The pearl culture industry in Australia has been operating since the mid 1950s. The main production comes from the northwestern coast of Western Australia, although production is increasing in the Northern Territory and north Queensland, especially in the Torres Strait region. Shell are harvested at licensed collecting areas under a quota system to prevent overfishing of the stocks. Seeding is undertaken at the harvesting leases or on the farms. On almost all the farms, the seeded pearl shells are held in specially designed net panels, each with about 6 or 8 mesh pockets in which to hold the shell. Farms are moving away from the traditional raft culture into the use of surface longlines or bottom fences, mainly as a preventative measure to avoid losses from cyclones. The shells are regularly cleaned using high-pressure water and X-rayed after 6-8 months to check for the presence of the nucleus. Harvesting of the pearls takes place about 2 years after implantation and some shells may be reseeded up to 3-4 times before being used for mabe production. With the advent of hatchery production of juveniles, technology is being developed for nursery culture and subsequent growout of these small shell until they reach a seedable size (1-2 years old). DE: Australia;- pearl-culture; aquaculture-techniques; oyster-culture CL: Aquaculture:-Shellfish-culture-1583 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) IC: CS9511349 AN: 3718867 UD: 9506 |
| 443 | ASFA  | 55 of 98 TI: Pearl culture and the islanders’ society of the Torres Strait. AU: Ohshima, G. AF: Kwasei Gakuin Univ., Dep. Geogr., Nishinomiya 662, Japan SO: GEOJOURNAL. 1988. vol. 16, no. 2, pp. 157-168 NT: Special issue: Pacific island states. PY: 1988 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Islanders of the Torres Strait are originally skilled seamen. They have rich and correct knowledge about the physical circumstances of the sea, and of the ecological conditions of the maritime resources. The Strait itself is the best fishing ground of natural pearl throughout the Pacific waters, then, pearl-seekers came from Sydney and pearls were sold even in London. Of course, islanders were employed as labourers of diver-boats, on which they made intimate relation to Japanese divers who had excellent ability of diving and pearl-collecting. After World War II, new marine industry was introduced by Japanese, that is, pearl-culturing using Pinctada maxima. Australia-Japan joint enterprises settled their pearl-farms in the Strait, and islanders found their good job with desirable incomes there. Moreover, they are getting some special technics of sea affairs in this industry. Author explains the cultural change of islanders’ society concerned with pearl-culturing in these decades. DE: aquaculture-development; sociological-aspects; Pinctada-maxima; historical-account; ISEW,-Torres-Strait ID: pearl-culture CL: Aquaculture:-Shellfish-culture-1583 JA: ASFA-1:-Biological-
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<th>Page 91</th>
<th>Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) OZ: Pacific-Southwest (ISEW) AN: 2084564</th>
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<td>445</td>
<td><strong>ASFA</strong> 56 of 98 <strong>TI:</strong> Australia's territorial sea: International and federal implications of its extension to 12 miles. <strong>AU:</strong> Opeskin,-B.R.; Rothwell,-D.R. <strong>AF:</strong> Fac. Law, Univ. Sydney, Sydney, N.S.W., Australia <strong>SO:</strong> OCEAN-DEV.-INT.-LAW. 1991. vol. 22, no. 4, pp. 395-431 <strong>PY:</strong> 1991 <strong>LA:</strong> English <strong>LS:</strong> English <strong>PT:</strong> J (Journal-Article) <strong>ER:</strong> M (Marine) <strong>AB:</strong> In November 1990 Australia extended its territorial sea from 3 to 12 nautical miles. This article examines the consequences of this extension under international and municipal law, and draws comparisons with the experience of the United States and Canada in relation to their territorial seas. The expansion of Australia's territorial sea has some noteworthy features under international law in its effect on Australia's territorial claims in the Antarctic, and on the maritime delimitation between Australia and Papua New Guinea in Torres Strait. The consequences of the extension under municipal law arise from the unique offshore regime agreed between the federal government and seven state and territorial governments in 1979, by which jurisdiction over the territorial sea is divided between central and regional governments. The Australian settlement may prove a useful model for federations trying to reach an agreement over offshore areas. <strong>DE:</strong> international-boundaries; ocean-space; government-policy; international-law; Australia;; Australia-Coasts <strong>ID:</strong> territorial-waters <strong>CL:</strong> Law,-Policy,-Economics-and-Social-Sciences-1121 <strong>JA:</strong> ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) <strong>IC:</strong> CS9205694 AN: 2690604</td>
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<td>446</td>
<td><strong>ASFA</strong> 57 of 98 <strong>TI:</strong> Prevalence of Cabirops orbionei (Epicaridea; Cryptoniscidae) in northern Australia: A biocontrol agent for bopyrids <strong>AU:</strong> Owens,-L. <strong>AF:</strong> Grad. Sch. Trop. Vet. Sci. and Agric., P.O. James Cook Univ. North Queensland, Qld. 4811, Australia <strong>SO:</strong> AUST.-J.-MAR.-FRESHWAT.-RES. 1993 vol. 44, no. 3, pp. 381-387 <strong>IS:</strong> ISSN 0067-1940 <strong>PY:</strong> 1993 <strong>LA:</strong> English <strong>LS:</strong> English <strong>PT:</strong> J (Journal-Article) <strong>ER:</strong> M (Marine) <strong>AB:</strong> In the Gulf of Carpentaria, bopyrids cause a loss of production to prawn fisheries due to sterilization. On the east coast of Queensland, the cabiropsid hyperparasite Cabirops orbionei was examined as a possible biocontrol agent for bopyrids. An ANOVA linear model using main effects only, was fitted to the data and accounted for 41% of the variability in the intensity of infection. Month, bopyrid reproductive status, prawn species, area of sampling, bopyrid species and prawn site accounted, respectively, for 10, 7, 6, 5 and 3% of the explained variability. Prevalence of C. orbionei dropped from a maximum of 50% in February to a minimum of 10% in August before starting to rise again. Hyperparasitized bopyrids were usually fully sterilized by the cabiropsid. The most commonly hyperparasitized prawn was Penaeus esculentus, followed by Penaeus semisulcatus, Penaeus longistylus and Penaeus latisulcatus; Metapenaeus endeavouri was not infected at all. Prevalence was almost uniform from Torres Strait to Halifax Bay but dropped precipitously at Cape Upstart. Epipenaeon ingens was 4-5 times more heavily infected than other bopyrid species. Prevalence of C. orbionei rose to a maximum at 34-36 mm carapace length of prawn and dropped slowly thereafter. <strong>DE:</strong> parasites-; biological-control; Cabirops-orbionei; ISEW,-Australia,-Queensland; Penaeus-; Metapenaeus-; Epipenaeon-ingens; Isopoda-; shrimp-fisheries; yield-; parasitic-castration <strong>ID:</strong> hyperparasite- <strong>CL:</strong> Productivity,-Ecosystems,-Species-Interactions:-Pests-and-control-1485; Productivity,-Ecosystems,-Species-Interactions:-Parasites-and-diseases-1484; Carcinology:-General-1281 <strong>JA:</strong> ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) <strong>IC:</strong> CS9317620 AN: 3018654</td>
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<td>447</td>
<td><strong>ASFA</strong> 58 of 98 <strong>TI:</strong> Estimation of the abundance of the tropical lobster Panulirus ornatus in Torres Strait, using visual transect-survey methods. <strong>AU:</strong> Pitcher,-C.R.; Skewes,-T.D.; Dennis,-D.M.; Prescott,-J.H. <strong>AF:</strong> South Australian Dep. Fish., G.P.O. Box 1625, Adelaide, S.A. 5001, Australia <strong>SO:</strong> MAR.-BIOL. 1992. vol. 113, no. 1, pp. 57-64 <strong>IS:</strong> ISSN 0025-3162 <strong>PY:</strong> 1992 <strong>LA:</strong> English <strong>LS:</strong> English <strong>PT:</strong> J (Journal-Article) <strong>ER:</strong> M (Marine) <strong>AB:</strong> The Panulirus ornatus stock in a 25,000 km super(2) area of Torres Strait was estimated by making visual counts of the number of lobsters in strip transects. Pilot studies in 1988 to assess the feasibility of a full-scale survey and optimize the sampling design showed that: 4 x 500 m transects were the most cost-effective of the different sizes trialled; two transects per location comprised the most optimal allocation of replication; and similar to 300 locations were necessary to achieve a 95% confidence interval of plus or minus 10% of the mean density found in the pilot study. Satellite imagery was used to map habitats in Torres Strait, and areas likely to be inhabited by lobsters were classified broadly into three strata: windward</td>
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reef slope, submerged reef, and deep areas. The 300 locations were allocated to each stratum in proportion to its area and the estimated variance of lobster abundance within it. DE: abundance--; stock-assessment; surveying-underwater; potential-yield; substrate-preferences; Crustacea--; Panulirus-ornatus; ISEW,-Torres-Strait CL: Fishable-stocks--; Stock-assessment-and-management-1604 JA: ASFA --1:--Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: BF9201402 AN: 2775228

448 ASFA 59 of 98 TI: Torres Strait lobster AU: Pitcher,-R.; McLoughlin,-K. AF: Commonw. Sci. and Ind. Res. Organ. Div. Fish., Brisbane Qld, Australia SO: FISHERY-STATUS-REPORTS-1993.--RESOURCE-ASSESSMENTS-OF-AUSTRALIAN-COMMONWEALTH-FISHERIES McLoughlin,-K.;Staples,-D.;Maliel,-M.-eds. CANBERRA,-A.C.T.-AUSTRALIA AUSTRALIAN-GOVERNMENT-PUBLISHING-SERVICE 1994 pp. 19-24 IS: ISSN 1322-655X ST: FISH.--STAT.-REP.-BUR.-REOU.R-.SCI. NT: map, graph PY: 1994 LA: English LS: English PT: B (Book) ER: M (Marine) AB: The tropical rock lobster (Panulirus ornatus) is the basis of the most important commercial fishery to the traditional inhabitants of Torres Strait. Stock assessment is based on annual fishery independent surveys, which are proving to be a valuable aid to management. It is predicted that abundance will be less in 1994 than in 1993 due to lower recruitment. The fishery is regarded as underexploited, but local depletion due to heavy effort may occur. DE: lobster-fisheries; fishery-resources; stock-assessment; fishery-management; Panulirus-ornatus; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland,-Torres-Strait; Australia,-Queensland CL: Fishable-stocks--;Stock-assessment-and-management-1604 JA: ASFA-1:--Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500143 AN: 3745999 UD: 9509


450 ASFA 63 of 98 TI: Patterns of genetic variation and subpopulation structure in narrow-barred Spanish mackerel AU: Shaklee,-J.B. AF: Washington State Dep. Fish., 115 General Adm. Bldg., Olympia, WA 98504, USA CO: Stock Identification Workshop, Panama City Beach, FL (USA), 5-7 Nov 1985 SO: PROCEEDINGS-OF-THE-STOCK-IDENTIFICATION-WORKSHOP,-NOVEMBER-5-7,-1985,-PANAMA-CITY-BEACH,-FLORIDA. Kumpf,-H.E.-ed. 1987. pp. 178-179 NT: Summary only. RN: NOAA-TM-NMFS-SEFC199 (NOAATMNMFSSEFC199) PY: 1987 LA: English PT: R (Report); K (Conference); Y (Summary) ER: M (Marine) AB: The narrow-barred Spanish mackerel (Scomberomorus commersoni) is a neritic species distributed throughout much of the Indo-west Pacific from South Africa to Fiji. In northern Australia, the Torres Strait, and Papua, New Guinea, this mackerel supports significant commercial, recreational, and/or subsistence fisheries. An investigation of genetic aspects of stock structure in this species was initiated to provide information necessary for the future management of these fisheries. Data reveal an absence of panmixia among Spanish mackerel in the Australian region of the Indo-west Pacific and suggest the existence of several more-or-less discrete stocks. The observed genetic differentiation between mackerel in Australia and those in Papua, New Guinea, suggests that fish in the Torres Strait, a politically sensitive area, may belong to one or both of these major stocks (or even a third stock). DE: fishery-
541 ASFA 65 of 98 TI: Changes in the size structure, sex ratio and molting activity of a population of ornate rock lobsters, Panulirus ornatus caused by an annual maturation molt and migration AU: Skewes,-T.D.; Pitcher,-C.R.; Trendall,-J.T. AF: CSIRO Mar. Lab., P.O. Box 120, Cleveland, Qld. 4163, Australia SO: BULL.-MAR.-SCI. 1994 vol. 54, no. 1, pp. 38-48 IS: ISSN 0007-4977 PY: 1994 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Each spring, most 2-year-old (2+) Panulirus ornatus undergo a maturation molt and then migrate from the fishing grounds in Torres Strait, which changes the size structure, sex ratio and molting activity of the lobster population. These changes are reflected to varying degrees by changes in the catch of Torres Strait lobster fishermen. The migration begins between early August and early September each year, and departure is spread over 4 to 8 weeks. More females migrate than males; thus the sex ratio of the remaining population becomes biased toward males. The maturation molt occurs during one to three peaks in molting activity among lobsters about to migrate. These peaks coincide with a general lunar rhythm in the molting activity of the lobster population, with peak rates of ecdysis about 1 week after each full moon. DE: sex-ratio; size-distribution; Panulirus-ornatus; molting--; migrations--; ISEW,-Torres-Strait; population-structure; sexual-maturity CL: Population-Studies:-Population-structure-1441; Carcinology:-General-1281; Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9410771 AN: 3561020

542 ASFA 67 of 98 TI: Note on the sediments and hydrology of the Gulf of Carpentaria, Australia AU: Somers,-I.F.; Long,-B.G. AF: Div. Fish., CSIRO Mar. Lab., PO Box 120, Cleveland, Qld 4163, Australia SO: AUST.-J.-MAR.-FRESHWAT.-RES. 1994 vol. 45, no. 3, pp. 283-291 IS: ISSN 0067-1940 PY: 1994 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: The Gulf of Carpentaria is a large embayment less than 70 m deep on Australia's remote northern coastline. This paper, which describes aspects of its hydrology and variation in sediment types, is part of a larger study of the size and distribution of commercial fish resources of the gulf. Much of the data on the hydrology and sediments were collected during a gulf-wide survey in November and December 1990. Waters in the central part of the gulf were found to be vertically stratified, with bottom temperatures just below 25 degree C and surface temperatures around 30 degree C. The waters to the north of the gulf remained well mixed, presumably because of greater tidal mixing through the Torres Strait. In contrast to water temperature, salinity was relatively uniform throughout the water column: between 35 and 36. In depths below 20 m, there was a clear trend in sediment grain size, from sediments of >80% >63 mu m (sandy) in the south-eastern gulf to sediments of >80% <63 mu m (muddy) in the north-west. A second muddy zone was also evident in the coastal zone (<20 m) in sheltered embayments or adjacent to rivers. DE: sediments-; hydrology-; data-acquisition; thermal-stratification; particle-size; Australia,-Carpentaria-Gulf; ISEW,-Australia,-Carpentaria-Gulf; sediment-texture; grain-size; salinity-data CL: Descriptive-Oceanography-and-Limnology:-TSD-distribution,-water-masses-and-circulation-2146; Geology-and-Geophysics:-Sediments-and-sedimentation-2264 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: CS9409547 AN: 3559047

| ASFA 70 of 98 TI | Trawl gear performance trials. AU: Sterling.-D.J.; Mellors,-J.E.; Watson,-R.A. SO: TORRES-STRAIT-PRAWN-PROJECT:-A-REVIEW-OF-RESEARCH-1986-88. Mellors,-J.E.-ed. 1990. no. Q190018 pp. 110-121 IS: ISSN 0727-6273 ST: INF.-SER.-DEP.-PRIMARY-IND.-QUEENSL. no. Q190018 PY: 1990 LA: English PT: B (Book) ER: M (Marine) AB: An account is given of trials conducted to determine efficiency and selectivity of trawl gear in the prawn fishery of Torres Strait. In one experiment, a comparison was made of trials conducted from a standard 48 mm mesh sampling trawl with that of a 29 mm non-standard trawl with zero fishing line height and a tickler chain well forward of the fishing line. In a second experiment fishing trials were conducted with a dual net system incorporating the standard 48 mm mesh net on the port side of the vessel and an exact copy using 32 mm mesh on the starboard side. DE: trawl-nets; gear-selectivity; mesh-selectivity; Penaeidae;- ISEW.-Torres-Strait ID: shrimp-fisheries CL: Practical-Aspects-of-Fisheries:-Fishing-gear-and-methods--1563 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9100949 AN: 2472625

| ASFA 73 of 98 TI | Variable patterns of den habitation by the ornate rock lobster, Panulirus ornatus , in the Torres Strait. AU: Trendall.-J.; Bell,-S. AF: Australian Indep. Res., P.O. Box 7197, Cairns, Qld. 4870, Australia SO: BULL.-MAR.-SCI. 1989. vol. 45, no. 3, pp. 564-573 PY: 1989 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Tagging and visual surveys by divers were used to investigate patterns of den habitation by Panulirus ornatus (Fabricius) in Torres Strait. Several locations representing two distinct habitats and, consequently, den types were sampled. On the shallow reef-tops, lumps of coral or rock form "rock" dens, offering fixed, permanent shelter. Along reef edges and in deeper water, shallow holes in loose coral rubble form "rubble" dens, which offer temporary shelter. The lobsters showed two different patterns of den habitation. Where "rock" dens were the principal type, the lobsters were gregarious: over 70% were found in groups of two or more. In areas in which "rubble" dens predominated, almost all the lobsters were solitary. Recaptures of tagged animals indicated that few rock lobsters moved between reef systems more then 5 km apart. However, they appeared to move regularly between dens and between areas within any single reef system. Consequently, the distribution of lobsters among the dens on the reef was variable. DE: microhabitats--; habitat-selection; Panulirus-ornatus; Torres-Strait; habitat-utilization; aggregation-behavior; dens--; social-behaviour; local-movements; coral-reefs; ISEW.-Torres-Strait ID: den-habitation CL: Autecology:-Behavior-1423 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 2220693

| ASFA 74 of 98 TI | Severe physiological stress associated with the annual breeding emigration of Panulirus ornatus in the Torres Strait. AU: Trendall,-J.T.; Prescott,-J. AF: Australian Indep. Res., P.O. Box 7197, Cairns, Qld. 4870, Australia SO: MAR.-ECOL.-PROG.-SER.. 1989. vol. 58, no. 1-2, pp. 29-39 IS: ISSN 0171-8630 PY: 1989 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Juvenile lobsters Panulirus ornatus in the Torres Strait emigrate from the Torres Strait to the Gulf of Papua, several hundred kilometres to the northeast. They mature and spawn during this emigration. After spawning the lobsters disappear. It has been suggested that the combined stress of reproduction results in mass mortality. To test this hypothesis, lobsters were collected at several stages of the emigration and their condition defined by the water content and composition of the digestive gland and abdominal muscle. A cage experiment, with 2 feeding regimes, was conducted to examine the likelihood of post-reproductive mortality. Compared to lobsters in the Torres Strait, before emigration takes place, lobsters that had completed the breeding emigration were in very poor condition. DE: spawning-migrations; mortality--; Decapoda--; Panulirus-ornatus; sexual-reproduction; length-weight-relationships; digestive-glands; water-content; muscles--; nitrogen--; carbon--; sex-characters; carbon/nitrogen-ratio; ISEW.-Papua-Gulf,-Torres-Strait ID: biological-stress CL: Carcinology:-Reproduction-and-development-1284 JA: ASFA--1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) AN: 2220693
457 ASFA 75 of 98 TI: Settlement of juvenile Penaeus esculentus Haswell, 1879, onto nursery grounds in Torres Strait. AU: Turnbull,-C.T.; Mellors,-J.E. SO: TORRES-STRAIT-PRAWN-PROJECT:-A-REVIEW-OF-RESEARCH-1986-88. Mellors,-J.E.-ed. 1990. no. Q190018 pp. 29-37 IS: ISSN 0727-6273 ST: INF.-SER.-DEP.-PRIMARY-IND.-QUEENSL.. no. Q190018 PY: 1990 LA: English PT: B (Book) ER: M (Marine) AB: The findings are presented of surveys conducted in Torres Strait in order to locate nursery areas for Penaeus esculentus and to establish the timing of post-larval settlement and emigration from the nursery areas. Observations indicate the extensive and dense seagrass on Warrior Reef is one of the major reef-top seagrass nursery areas for the Torres Strait prawn fishery. High densities of juvenile P. esculentus inhibit the seagrass on Warrior Reef with the main settlement occurring in January-April. The optimum habitat for settlement and growth of the prawn in Torres Strait is a Thalassia hemprichii seagrass community on a soft silty substrate. DE: fishery-biology; recruitment-; nursery-grounds; sea-grass; Thalassia-hemprichii; Penaeus-esculentus; ISEW,-Torres-Strait ID: shrimp-fisheries CL: Fishable-stocks:-General-1601 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9100942 AN: 2182388

458 ASFA 78 of 98 TI: Maritime claims and management rights of indigenous peoples: Rising tides in the Pacific and northern waters. AU: Valencia,-M.J.; VanderZwaag,-D. AF: Resour. Syst. Inst., East-West Cent., 1777 East-West Rd., Honolulu, HI 96848, USA SO: OCEAN-SHORELINE-MANAGE. 1989. vol. 12, no. 2, pp. 125-167 PY: 1989 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: This paper surveys the rising tide of indigenous people's claims to marine resources throughout the Pacific and northern waters. Described are claims and gains by Maoris in New Zealand, Torres Strait Islanders in Australia, Hawaiians and northwest US Native Americans in the United States, Haida, Alaska Inuit, Canadian Inuit, and Greenlanders. Almost all these groups have (re)gained rights to traditional uses of marine resources and some have achieved the right to be consulted regarding marine resource management decisions. More needs to be, and will be accomplished. The extension of coastal state resource jurisdiction into the marine sphere and the attendant management responsibilities provide a creative context for forging new accommodations between national governments and coastal indigenous groups. DE: coastal-zone-management; resource-development; government-policy; maritime-legislation; marine-resources; sociological-aspects; legislation-; government-policies; coastal-zones; legal-aspects; I,-Pacific; PN,-Arctic; fishing-rights; Law-of-the-Sea; international-legislation; conservation- ID: resource-management; indigenous-peoples CL: Law,-Policy,-Economics-and-Social-Sciences:-General-2121; Law,-Policy,-Economics-and-Social-Sciences:-Coastal-zone-management-2124; Law,-Policy,-Economics-and-Social-Sciences-1121; Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565 JA: ASFA-2:-Ocean-Technology,-Policy-and-Non-Living-Resources (Q2); ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) AN: 2010093

459 ASFA 81 of 98 TI: Prawn fishery simulation yield model. AU: Watson,-R.A. SO: TORRES-STRAIT-PRAWN-PROJECT:-A-REVIEW-OF-RESEARCH-1986-88. Mellors,-J.E.-ed. 1990. no. Q190018 pp. 125-134 IS: ISSN 0727-6273 ST: INF.-SER.-DEP.-PRIMARY-IND.-QUEENSL.. no. Q190018 PY: 1990 LA: English PT: B (Book) ER: M (Marine) AB: A model is described which simulates the growth, immigration, emigration and mortality processes of juvenile Penaeus esculentus in nursery areas of Torres Strait. The model also includes the adult or commercial phase of the life cycle and may also be applied to the other 2 commercial species in the area: Metapeneaopsis endeavouri and P. longistylus . The model has been employed to make crude predictions of the effects of differing seasonal closure periods on prawn catch values. With modification this model can be used to meet many of the prawn fishery managers future needs. DE: yield-predictions; Penaeidae-; mathematical-models; computer-programmes; ISEW,-Torres-Strait-ID: shrimp-fisheries CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9100950 AN: 2472639

temporal fishing patterns of the Torres Strait prawn fleet from 1980-86 based on the Northern Prawn Fishery logbook records. The findings are then related to Penaeus esculentus recruitment patterns. Logbook records show that the spatial distribution of annual average CPUE values has varied only slightly from 1980 to 1986. Short term change in CPUE may occur very quickly and could be related to prawn behaviour; the catch rate may alter from hour to hour throughout the evening as prawn activity patterns change.


462 ASFA 84 of 98 TI: Closed seasons and tropical penaeid fisheries: A simulation including fleet dynamics and uncertainty AU: Watson,-R.A.; Die,-D.J.; Restrepo,-V.R. AF: Queensland Dep. Primary Ind. Northern Fish. Cent., P.O. Box 5396, Cairns Mail Cent., Qld. 4508, Australia SO: N.-AM.-J.-FISH.-MANAGE. 1993 vol. 13, no. 2, pp. 326-336 IS: ISSN 0275-5947 PY: 1993 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: Seasonal fishery closures are commonly used in fisheries management for various purposes, including limitation of effort, protection of spawners, and maximization of the yield or value that can be obtained from a cohort. The effectiveness of a proposed closure can be evaluated through yield-per-recruit, analysis, which can be carried out analytically for some simple situations. For other fisheries, such as the penaeid shrimp fishery of Torres Strait, Australia, investigated here, the analyses are more complex because recruitment occurs in pulses throughout the year and the intensity of fishing is itself unevenly distributed in time, being patterned after these recruitment pulses. Furthermore, the imposition of closures of different durations has been documented to alter the pattern and intensity of fishing after the fishery reopens. In this study, a simulation approach is used to identify the timing and duration of closures that are likely to increase the yield or the value per recruit of the fishery. The simulation allows for changes in the distribution and magnitude of effort directly caused by the closures. All input parameters are assumed to be known precisely, except those controlling fishing and natural mortality, which are drawn from empirically derived ranges. The simulation results indicate that a 6-month closure starting in December or January could increase the value of the fishery by 5-10%, compared with a fishery with the same fishing pattern and no closure. DE: shrimp-fisheries; season-regulations; fishery-regulations; fishery-management; tropical-environment; ISEW,-Torres-Strait; simulation--; yield--; Penaeidae--; models-- CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA--1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9100907 AN: 3022116

463 ASFA 85 of 98 TI: Velvet shrimps (Metapenaeopsis spp.) of Torres Strait, Queensland, Australia. AU: Watson,-R.A.; Keating,-J.A. AF: North. Fish. Res. Cent., Queensland Dep. Primary Ind., P.O. Box 5396, Cairns Mail Cent., Cairns, Qld. 4871, Australia SO: ASIAN-FISH.-SCI. 1989. vol. 3, no. 1, pp. 45-56 IS: ISSN 0116-6514 PY: 1989 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: The velvet shrimps, Metapenaeopsis rosea and M. palmensis, form a large part of penaeid shrimp catches from Torres Strait, Queensland, Australia, and are caught from 5 to 30 mm carapace length. Recruitment to the fishery occurs annually in January to March and abundance is greatest during May to October. Females are first found mature at 12 mm carapace length and spawning occurs year-round with peaks in April, July and October. Males begin to mature at 5 mm carapace length and all have joined petasmas by 9 mm
carapace length. DE: fishery-biology; population-structure; Metapenaeopsis-rosea; Metapenaeopsis-palmensis; ISEW,-Australia,-Queensland,-Torres-Strait ID: shrimp-fisheries CL: Fishable-stocks:-General-1601 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: FA9002516 AN: 2436292


465 ASFA 89 of 98 TI: Water circulation in the Gulf of Papua AU: Wolanski,-E.; Norro,-A.; King,-B. AF: Australian Inst. Mar. Sci., P.M.B. 3, Townsville M.C., Pld. 4810, Australia SO: CONT.-SHELF-RES. 1995 vol. 15, no. 2-3, pp. 185-212 IS: ISSN 0278-4343 PY: 1995 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: The Gulf of Papua has the shape of a half-moon of radius of about 200 km and mean depth <50 m. The freshwater inflow is large, about 15,000 m super(3)/s with little seasonal variation. The entire Gulf is stratified in salinity in the top 20 m. The halocline, sharpened by strong winds, inhibits tidal mixing in the Gulf, even in shallow coastal waters where tidal currents are >1 m/s. The dominant M sub(2) tide propagates from the Coral Sea through the Gulf to enter both Torres Strait and the large estuaries of Papua New Guinea. The low-frequency currents have, in coastal waters, little vertical shear associated with the salinity stratification, but, at the shelf break, a strong vertical shear in the well-mixed layer typically 100 m thick. A dominant forcing of the circulation in the Gulf is the eastward-flowing Coral Sea Coastal Current in the Northwest Coral Sea. This current appears to generate a counter-clockwise rotating eddy in the Gulf. The wind fluctuations result in the brackish water leaving the Gulf alternatively at its western and eastern sides. The residence time of river runoff in the Gulf, estimated using a three-dimensional hydrodynamic model, is about 2 months and this estimate agrees with that from freshwater budget estimates. Brackish water intrudes in the Torres Strait where tidal mixing maintains vertical homogeneity. The tidal mixing front is located near the northern tip of the Warrior Reefs and the intrusion is strongest in the monsoon season. DE: water-mixing; ISEW,-Papua-New-Guinea,-Papua-Gulf; tidal-currents; salinity-stratification; nearshore-dynamics; coastal-oceanography CL: Dynamical-Oceanography-and-Limnology:-Ocean-circulation-and-currents-2164 JA: ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: MB9500436 AN: 3786580 UD: 9512

466 ASFA 90 of 98 TI: Currents through Torres Strait. AU: Wolanski,-E.; Ridd,-P.; Inoue,-M. AF: Australian Inst. Mar. Sci., PMB No. 3, Townsville M.C., Qld. 4810, Australia SO: J.-PHYS.-OCEANOGR. 1988. vol. 18, no. 11. pp. 1535-1545 PY: 1988 LA: English LS: English PT: J (Journal-Article) ER: M (Marine) AB: A five-month field study of the circulation in the Torres Strait was carried out. Baroclinic effects were negligible. The Arafura Sea and the Coral Sea forced a different tide on either side of Torres Strait, resulting in fluctuations of sea level difference of up to 6 m on either side of the Strait. The tidal dynamics in the Strait were controlled by a local balance between the acceleration, the sea level slope, and the bottom friction. Only 30% of the semidiurnal tidal wave was transmitted through Torres Strait. There were also fluctuations of the high-frequency sea level residuals (up to 0.8 m peak to trough) which appeared to be related to complex flows both through the Strait and across the Strait. The Strait was fairly impervious to long waves. The net current was only 0.01 m/s during the 5 months of observations, corresponding to a through-strait current of 10 super(-2) sverdrups. DE: sea-level-variations; tidal-dynamics; sverdrup-transport; nearshore-currents; ISEW,-Torres-Strait ID: ocean-currents CL: Dynamical-Oceanography-and-Limnology:-Nearshore-dynamics-2170 JA: ASFA-2:-Ocean-Technology.-Policy-and-


469  ASFA  94 of 98 TI: The Torres Strait treaty SO: AUST.-FISH. 1993 vol. 52, no. 7, p. 21 IS: ISSN 0004-9115 PY: 1993 LA: English PT: J (Journal-Article) ER: M (Marine) AB: This treaty between Australia and Papua New Guinea is concerned with sovereignty and maritime boundaries in the area between the two countries and the protection of the marine environment and the way of life and livelihood of traditional inhabitants. It also establishes the Torres Strait Protected Zone (TSPZ), in which each country exercises sovereign jurisdiction for swimming fish and sedentary species on the respective sides of the agreed jurisdiction lines (Fisheries Jurisdiction Line and Seabed Jurisdiction Line). The Torres Strait Treaty has specific effects on the management of fisheries in the region. DE: fishery-management; government-policy; international-cooperation; shared-stocks--; ISEW,-Torres-Strait; ISEW,-Australia; ISEW,-Papua-New-Guinea CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9403133 AN: 3515180

470  ASFA  95 of 98 TI: Time allocations for the Torres Strait prawn fishery SO: AUST.-FISH. 1993 vol. 52, no. 7, pp. 15-18 IS: ISSN 0004-9115 PY: 1993 LA: English PT: J (Journal-Article) ER: M (Marine) AB: The Torres Strait prawn fishery (Penaeus esculentus, P. longistylus, Metapeneaues endeavour) is among Australia's most valuable Commonwealth fisheries earning $12-16 million annually. Under new management arrangements introduced to control fishing effort in the fishery, operators have been allocated a number of fishing days commensurate with their past prawn fishing activity in the Torres Strait. The Torres Strait Protected Zone Joint Authority (PZJA) recently introduced management arrangements designed to control fishing effort but not disadvantage existing operators in the Torres Strait prawn fishery (TSPF). As PSJA principals, Federal and Queensland Primary Industries Ministers Simon Crean and Ed Casey, recently announced new arrangements based on fishing time allocations. The Minister for Resources, Michael Lee has now assumed the Federal position on the PZJA and joint responsibility for managing the fishery, with QPI Minister Ed Casey. DE: shrimp-fisheries; fishery-management; quota-regulations; Penaeus--; Metapeneaues-endavour--; ISEW,-Torres-Strait CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9403133 AN: 3515180

471  ASFA  96 of 98 TI: Plan for Torres Strait prawn trawl management SO: QUEENSL.-FISHERMAN 1993 vol. 11, no. 1, pp. 23-29 PY: 1993 LA: English PT: J (Journal-Article) ER: M (Marine) AB: A new plan has been proposed to manage prawn trawling in the Torres Strait. It is based on what are called 'transferable time quotas". Details of the proposal are published here. DE: shrimp-fisheries; fishery-management; quota-regulations; fishery-regulations; trawling--; Australia--; Queensland CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA --1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9411676 AN: 3561768

English LS: English PT: B (Book); Z (Bibliography) ER: M (Marine) AB: The aim of this report is to inform anyone interested in Torres Strait about fisheries in the area, the research that has been carried out in its fisheries since the Torres Strait Treaty was signed, and how the research can benefit Torres Strait and Australia. It includes environmental research where it relates to fisheries. The main areas of research covered are: research for managing fish stocks; the marine environment; the impact of mining on fisheries; traditional fisheries, such as dugong, turtles and reef fishes; commercial fisheries, such as rock lobster, prawns, Spanish mackerel, pearls and barramundi. DE: research-programmes; fishery-resources; marine-environment; fishery-management; ISEW,-Australia,-Queensland,-Torres-Strait; ISEW,-Torres-Strait; commercial-species; Australia,-Queensland CL: Fishable-stocks:-General-1601 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500014 AN: 3745870 UD: 9509


474 ASFA 1 of 132 TI: The current status of Australia's rock lobster fisheries AU: Brown,-R.S.; Phillips,-B.F. AF: Bernard Bowen Fish. Res. Inst., Western Australian Mar. Res. Lab., P.O. Box 20, North Beach, Western Australia 6020, Australia SO: SPINY-LOBSTER-MANAGEMENT. Phillips,-B.F.;Cobb,-J.S.;Kittaka,-J.-eds. LONDON-UK BLACKWELL-SCIENTIFIC-PUBLICATIONS 1994 pp. 33-63 IS: ISBN 0-85238-186-7 NT: AIC: SH380.865 1994. PY: 1994 LA: English PT: B (Book) ER: M (Marine) AB: There are seven Panulirus and Jasus rock lobster species found in Australian waters and four of them support significant commercial recreational fisheries. Panulirus cygnus is found on the lower west coast; Panulirus ornatus in northern Australia, particularly the Torres Strait and far north Queensland; Jasus edwardsii (formerly J. novaehollandiae) in southern Australia - South Australia, Victoria and Tasmania; and Jasus verreauxi on the central east coast, New South Wales. The commercial whole weight catches of the four species were P. cygnus 12 000 t (1991/92), P. ornatus, 460 t (1990), J. edwardsii, 4848 t (1989/90) and J. verreauxi, 100-200 t (1990/91), giving a total of about 17 500 t, making Australia's rock lobster production the largest in the world. This chapter summarizes the level of knowledge on the four important commercial species and the current status of each of the stocks. DE: lobster-fisheries; Australia-Coasts; Panulirus-; Jasus-; fishery-statistics; geographical-distribution CL: Fishable-stocks:-Fishery-statistics-and-sampling-1603 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) IC: NO9600508 AN: 3841311 UD: 9603

475 ASFA 3 of 132 TI: The Great Barrier Reef environment: A pilot's function AU: Small,-P. AF: Queensland Coast and Torres Strait Pilot Service, Brisbane Qld 4001, Australia CO: Meeting of Experts. Shipping in the Great Barrier Reef - Reducing the Risk of Spilling Oil and Other Hazardous Substances, Canberra, A.C.T. (Australia), 14 Apr 1993 SO: HULLS,-HAZARDS-AND-HARD-QUESTIONS-SHIPPING-IN-THE-GREAT-BARRIER-REEF. Ottesen,-P.-ed. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1994 pp. 64-80 IS: ISBN 0-642-17427-X ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: maps, diagrams RN: 19 PY: 1994 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: A vessel proceeding from Asia to Australia or New Zealand has a choice of two basic routes: Torres Strait and across the Coral Sea; or the Inner Route of the Great Barrier Reef. Of the latter course, the section from Torres Strait to Cairns is the main compulsory pilotage area. Pilotage must be considered as a preventive safety operation. The emphasis over the past 15 years has almost entirely shifted from the welfare and quick passage of the vessel itself to the
protected of the environment. Methods of operation and the main problems encountered are described. DE: coral-reefs; shipping--; safety-regulations; navigational-hazards; Australia,-Queensland; ISEW,-Great-Barrier-Reef CL: Prevention-and-control-1505 JA: ASFA:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500724 AN: 3815200 UD: 9603

476 ASFA 4 of 132 TI: Ship sources oil pollution in the Great Barrier Reef: Causes, frequency, response and prevention AU: Raaymakers,-S. AF: Great Barrier Reef Marine Park Auth., Townsville Qld 4810, Australia CO: Meeting of Experts. Shipping in the Great Barrier Reef - Reducing the Risk of Spilling Oil and Other Hazardous Substances, Canberra, A.C.T. (Australia), 14 Apr 1993 SO: Hulls,-Hazards-And-Hard-Questions-Shipping-In-The-Great-BARRIER-Reef. Ottesen,-P.-ed. Townsville,-Qld-Australia Great-BARRIER-Reef-Marine-Park-Authority 1994 pp. 11-22 IS: ISBN 0-642-17427-X ISSN 0156-5842 ST: Workshop-Ser.-Great-BARRIER-Reef-MAR.-Park-AUTH. NT: 2 tables, 11 ref. RN: 19 PY: 1994 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: Ship sources oil spills are discussed in the context of the Great Barrier Reef, including Torres Strait, which falls within the ReefPlan area. About 2000 ships pass through the area each year, about 100 of which are tankers. There have been no significant spills in the area since 1970; however, there have been 19 collisions and 24 groundings of large ships since 1979, and operational discharges from large ships are commonly reported. The impacts of oil on the tropical marine ecosystems found in the area are discussed. The nature and extent of impacts from major spills cannot be predicted with any accuracy, and actual examples have tended to be more detrimental than expected from experimental results. Arrangements for the prevention of spills in the area are described, and opportunities for improvement identified. DE: coral-reefs; marine-parks; oil-spills; pollution-effects; hazard-assessment; shipping--; ISEW,-Australia,-Queensland; ISEW,-Great-Barrier-Reef. ISEW,-Torres-Strait CL: Pollution:-Characteristics,-behavior-and-fate-1503 JA: ASFA:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500720 AN: 3815196 UD: 9603

477 ASFA 5 of 132 TI: The Torres Strait Baseline Study scientific programme -- assessing the impacts of heavy metals in a physically complex and biologically diverse tropical marine system AU: Dight,-I.J. AF: James Cook Univ. of North Queensland, Townsville, Qld. 4810, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld. (Australia), 19 Nov 1990 SO: Sustainable-Development-For-Traditional-Inhabitants-Of-The-Torres-Strait-Region. Lawrence,-D.;Cansfield-Smith,-T.-eds. Townsville,-Qld-Australia Great-BARRIER-Reef-Marine-Park-Authority 1991 pp. 493-506 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: Workshop-Ser.-Great-BARRIER-Reef-MAR.-Park-AUTH. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: The scientific objectives and conceptual design of the Torres Strait Baseline Study are outlined, together with details of the pilot study to begin in 1991. An initial aim of the programme is to establish the spatial and temporal variation in trace metal concentrations within the Strait. The study design seeks to correlate change in the concentration of trace metals along a series of transects away from the mouth of the Fly River with physical and chemical parameters related to river discharge and material of terrigenous origin. The design is exploratory as present understanding of trace metal distribution and bio-availability in the Strait is limited. Three basic methods will be used to quantify trace metal concentrations: analysis of water, sediments and biota. The sampling of biota is an important focus of the programme and will include species of relevance to the community and to commercial fisheries, as well as the identification of suitable indicator organisms of trace metal bio-availability. DE: baseline-studies; trace-metals; heavy-metals; marine-pollution; mining--; terrigenous-sediments; river-discharge; ISEW,-Papua-New-Guinea,-Fly-Estuary; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland,-Cape-York-Peninsula CL: Pollution:-Characteristics,-behavior-and-fate-1503 JA: ASFA:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500675 AN: 3815151 UD: 9603

478 ASFA 6 of 132 TI: Sustainable development for traditional inhabitants of the Torres Strait region [a review] AU: Lawrence,-D. AF: Great Barrier Reef Marine Park Auth., Townsville, Qld. 4810, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld. (Australia), 19 Nov 1990 SO: Sustainable-Development-For-
TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 481-492 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: 17 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: An introduction is given to the background, administration and progress of the Torres Strait Baseline Study, currently being undertaken by the Great Barrier Reef Marine Park Authority on behalf of the Australian Department of Arts, Sport, the Environment, Tourism and Territories. The objectives of the study are: (a) to establish existing levels of trace metals within the sediments and biota; (b) to identify the important transport, geochemical and trophic pathways of trace metals in the marine environment; (c) to determine the potential effects of trace metal concentrations on selected marine organisms; (d) to assess the potential effects of present and future mining operations in the Fly River area of Papua New Guinea on sediment loads and trace metal concentrations. DE: baseline-studies; marine-pollution; mining-; trace-metals; sediment-chemistry; sediment-load; marine-organisms; ISEW,-Australia,-Queensland,-Cape-York-Peninsula; ISEW,-Papua-New-Guinea; trophodynamic-cycle; transport-processes; Australia-; ISEW,-Torres-Strait CL: Pollution:-Characteristics,-behavior-and-fate-1503 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500674 AN: 3815150 UD: 9603

479 ASFA 7 of 132 TI: The policy context of the Torres Strait environmental baseline study AU: Haines,-A.K. AF: Australian Dep. of Arts, Sport, the Environment and Territories, Canberra, A.C.T. 2601, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld. (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 473-479 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: The Torres Strait Baseline Study was announced by the Prime Minister of Australia in an Environment Statement in July 1989. It is to be carried out in close consultation with the government of Papua New Guinea. A number of Articles of the Torres Strait Treaty, which is the primary basis for ordering affairs between the two governments, are relevant to the management of the Study and any consequent environmental issues. Torres Strait also falls within the area of the Convention for the Protection of the Natural Resources and Environment of the South Pacific Region (commonly referred to as the SPREP Convention). The study as designed had quite limited and narrow objectives - to establish the effect of mining in PNG on levels of metals in the waters of the Strait - but later developments may have introduced broader issues that the governments should jointly address. Progress reports are made to the Department of Arts, Sport, the Environment and Territories, and to the inter-government Environment Management Committee. DE: baseline-studies; environmental-effects; mining-; international-policy; marine-environment; Australia-; Papua-New-Guinea; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland,-Cape-York-Peninsula; ISEW,-Papua-New-Guinea CL: Environmental-Changes,-Conservation,-Public-Health:-Conservation,-wildlife-management-and-recreation-1523 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500673 AN: 3815149 UD: 9603

intended management policies and difficulties in operating and enforcing them are
briefly reviewed. DE: marine-parks; nature-conservation; Dugong-dugon; Chelonia-;
ISEW,-Papua-New-Guinea CL: Environmental-Changes.-Conservation.-Public-
Health:-Conservation.-wildlife-management-and-recreation-1523 JA: ASFA-3:-
Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC:
AU9500672 AN: 3815148 UD: 9603

481 ASFA 9 of 132 TI: Sustainable development -- possibilities and limitations to indigenous
economic development in the Torres Strait AU: Arthur,-W. AF: Australian National
Univ. Centre for Aboriginal Economic Policy Research, Canberra, A.C.T., Australia
CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1990
SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-
THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds.
TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-
AUTHORITY 1991 pp. 403-420 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST:
WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: map, 4
tables, 22 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K
(Conference) ER: M (Marine) AB: The social and economic characteristics of the
Torres Strait region are briefly described, with emphasis on the possibility of increased
islander participation in the non-welfare economy, and some of the apparent
constraints on such a development. Fishing is the Strait's major productive export
industry. The majority of islanders involved in the industry are part-time fishers who
receive other income in the nature of unemployment benefits and other welfare
payments. The structure of the welfare system does not give incentive to reduce
dependence upon it. It may, however, be contributing to the fishing industry by in
effect limiting the need for increased fishing pressure on limited stocks. There is
evidence, moreover, that the attractiveness of the islands as a lifetime home for their
indigenes is increasing. Sustainable development may thus depend on broadening the
economic base by diversifying, rather than simply intensifying the existing fishing
effort to what may be unsustainable levels. Further research is needed into the level of
population that the region can economically sustain, rather than simply into the level of
fish stocks. DE: sociological-aspects; development-potential; economic-feasibility;
commercial-fishing; ISEW,-Australia; ISEW,-Papua-New-Guinea CL: Practical-
Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565 JA: ASFA-1:-
Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC:
AU9500671 AN: 3815147 UD: 9603

482 ASFA 11 of 132 TI: The need for an information database of resource development activities
in the Torres Strait region AU: Nen,-T. AF: Papua New Guinea National Research
Inst., Port Moresby, Papua New Guinea CO: Torres Strait Baseline Study Conference,
Cairns, Qld. (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-
TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-
D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-
ISBN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-
AUTH. NT: 11 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K
(Conference) AB: The reasons that Australia and Papua New Guinea need to create an
information database of resource development activities in the Torres Strait region are
presented. The strategies of government departments in Papua New Guinea involved in
the regional resource sectors are briefly outlined. The primary objective of the
Department of Environment and Conservation in its rationalisation of the development
and exploitation of Papua New Guinea's natural resources is explained. The categories
of specific information that are needed by such people as planners, policy makers and
the people of the region are pointed out. DE: data-collections; natural-resources;
resource-development; Papua-New-Guinea; ISEW,-Papua-New-Guinea CL: Practical-
Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565 JA: ASFA-1:-
Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC:
AU9500669 AN: 3815145 UD: 9603

483 ASFA 12 of 132 TI: The subsistence economy of the Kiwai-speaking people of the southwest
coast of Papua New Guinea AU: Lawrence,-D. AF: Great Barrier Reef Marine Park
Auth., Townsville, Qld. 4810, Australia CO: Torres Strait Baseline Study Conference,
Cairns, Qld. (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-
TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-
D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-
The coastal Kiwai-speaking people of the southwest coast of Papua New Guinea live on a narrow strip of sandy foreshore between the sea and the coastal swamps and savannah lands of the coastal plain. They have limited access to good gardening lands, but have unrestricted access to the waters of Torres Strait. For this reason they have remained predominantly subsistence fishermen. This makes them economically and culturally vulnerable to any adverse changes to the marine environment. With limited access to government support, and living in one of the least developed parts of Papua New Guinea, their future depends on maintenance of the quality of the fish they catch and the reefs on which they fish. DE: sociological-aspects; marine-fisheries; artisanal-fishing; pollution-effects; Papua-New-Guinea; ISEW,-Papua-New-Guinea CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565

The Eastern Islands of the Torres Strait region are of recent volcanic origin, set within coral reefs and surrounded by beaches from which they rise sharply. They lie within sight of one another, and therefore constitute a distinct anthropological unit. The culture of the peoples of the Eastern Islands is described, the circumstances and effects of contact and colonization, wholesale migration to Queensland in the post-war period, and more recent population stabilisation. A deterioration in the supply of marine foods such as might follow from pollution of the sea, would impoverish the Islanders' diet as well as placing further strain on their meagre cash income. It would also terminate activities which people value as part of their cultural heritage. DE: sociological-aspects; marine-fisheries; marine-pollution; volcanic-islands; ISEW,-Australia; ISEW,-Papua-New-Guinea CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565

A Western Torres Strait myth is used to illustrate the connection between sea territories and culture; the social links among people; and the value of the seascape. It is a story about Aukum, a legendary woman who symbolises the fertility of the reef. Her abundant, daily fish catch is shared with relatives and while she traverses the numerous marine zones - deep water passages, platform reefs and the fringing home-island reefs - she stocks many reefs of Western Torres Strait with fish. This paper documents how peoples' lives are dependent on the vitality of the local seascape, and in particular the reef, Maza. It is argued that cultural identity is based on historical, symbolic and social associations with the sea and interminable use of the marine environment by Western Torres Strait Islanders. DE: sociological-aspects; coral-reefs; reef-fisheries; ISEW,-Australia; ISEW,-Papua-New-Guinea CL: Practical-Aspects-of-Fisheries:-Policy,-legislation,-and-sociology-1565
There is an urgent need to evaluate the impact of Papua New Guinea's mining activities on the biota of Torres Strait. In particular, regular monitoring of metal levels is of critical importance to the protection of public health. Bio-monitor organisms for tropical regions have received less attention than their temperate counterparts, the tridacnid clams rank highly and fulfill several of the necessary characteristics. Studies are reported with *T. crocea* that aimed to identify uptake and depuration kinetics of copper, zinc, cadmium and mercury; and to fine-tune the clam's role as a monitoring tool with respect to sampling frequency and interpretative capacity. The findings of the study are evaluated together with some inherent weaknesses and limitations of their use.

A total of 43 specimens of clams were collected from eight sites in Torres Strait. After dissection and digestion, cadmium, lead, mercury, copper and zinc were determined in samples of adductor muscle, mantle and visceral mass. The levels of lead, mercury, copper and zinc were not considered biologically significant. Significant levels of cadmium were found in adductor muscle and mantle tissue at all sites. However, no muscle or mantle tissue levels exceeded the maximum permitted level for human consumption.

Globally, wild-stock fisheries of rock lobsters are considered to be essentially fully exploited. Fishing methods based on use of artificial shelters in juvenile nursery areas are being applied to increasing catches of tropical rock lobsters, especially in Cuba and the Mexican Caribbean. Comparison is here made between the habitat and lobster species of the Caribbean and Torres Strait. The possibility and practicality of applying artificial shelters to the Torres Strait fishery is discussed, including the potential for a five-fold increase in catch. However, the need for tactical research to address the mode of operation of the shelters and the extent of environmental impact on habitat is emphasised.
| ASFA | 491 | Biological investigations into the impact of the Ok Tedi copper mine AU: Smith,-R.E.W. AF: Ok Tedi Mining Ltd, Port Moresby, Papua New Guinea CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1991 SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 261-282 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: maps, graphs, table, 24 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) AB: Biological investigations on behalf of Ok Tedi Mining Ltd commenced with an expeditionary survey of the fish assemblages of the Fly River system in 1981. The company established biological monitoring and investigation programmes in 1983. These programmes have been revised and updated several times since their inception, in response to the improved understanding of the biota and the potential impacts. This has lead to a general increase in the extent of the work done. The programmes have concentrated very heavily on field sampling of the fish stocks, but have also included the assessment of the invertebrate assemblages, monitoring of the concentrations of heavy metals in fish tissues and bioassays of the toxicity of dissolved and particulate copper to fish and invertebrates. The investigations have provided insight into the nature of the impacts that have occurred, the chemical parameters responsible for those impacts, the biological processes associated with them and prediction of the likely effects of impacts in the future. DE: river-fisheries; mining-; environmental-impact; research-programmes; Papua-New-Guinea,-Fly-R. CL: Pollution:-Effects-on-organisms-1504 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) IC: AU9500661 AN: 3815137 UD: 9603 |

Research will continue to be synthesized into models that provide the basis for enlightened management. DE: lobster-fisheries; fishery-management; research-programmes; Panulirus-ornatus; ISEW.-Australia.-Queensland.-Cape-York-Peninsula; ISEW.-Papua-New-Guinea; ISEW.-Torres-Strait CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500660 AN: 3815136 UD: 9603

492 ASFA 21 of 132 TI: Benthic and pelagic processes in the Fly River delta and the nearshore Gulf of Papua AU: Robertson,-A.I.; Alongi,-D.M. AF: Australian Institute of Marine Science, Townsville Qld 4810, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNVILLE.-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 241-251 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: 22 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) AB: Two month-long expeditions were conducted in 1989 and 1990 to the Fly River delta and the near-shore Gulf of Papua. Sampling was performed at a number of sites, and mangroves on all islands were extensively examined. The aims were to (a) make first-order estimates of the flux of carbon, nitrogen and phosphorus from the Fly River; (b) study the influence that exported materials have on biological processes in the water column and the sediments; (c) examine the vertical profiles of dissolved and particulate copper concentrations in the sediments. The results of the work are briefly presented, and priorities for future research suggested. DE: deltas-; river-discharge; mangrove-swamps; pelagic-sediments; copper-; mining-; environmental-impact; ISEW.-Papua-New-Guinea; Papua-New-Guinea.-Fly-R. CL: Pollution:-Characteristics,-behavior-and-fate-1503 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500659 AN: 3815135 UD: 9603

493 ASFA 22 of 132 TI: The artisanal sea turtle fishery in Daru, Papua New Guinea AU: Kwan,-D. AF: James Cook Univ. of North Queensland Zoology Dep., Townsville Qld 4810, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNVILLE.-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 239-240 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: Summary only RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference); Y (Summary) ER: M (Marine) AB: Turtles were traditionally hunted for subsistence and cultural purposes. Today, fisheries operating off Port Moresby and Daru are an important source of income for many local people. Turtles harvested at Daru are believed to be taken from at least three groups: one that is resident in Torres Strait, one that migrates to the area to breed and a third that migrates through the area to various rookeries in the Great Barrier Reef. Green turtles are dominant in the catch, and most are breeding females; each of these trends is probably due to a combination of local availability and the preference of fishers and the market. Much of the catch is being taken from the eastern Australian breeding assemblage, and it may constitute a significant removal from that assemblage. The turtle stock being harvested at Daru is also extensively hunted in foraging areas in Indonesia. Current knowledge is not sufficient to recommend restrictive measures, but continued monitoring is strongly recommended. DE: turtle-fisheries; fishery-resources; Chelonia-; ISEW.-Papua-New-Guinea CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500658 AN: 3815134 UD: 9603

The Torres Strait Fishery Scientific Advisory Committee provides scientific advice to the Protected Zone Joint Authority through the Torres Strait Fisheries Management Committee. It is responsible for a large research effort including biological research into lobsters, prawns, effects of fishing, seagrass ecology, dugongs, and monitoring of traditional fishing. The National Residue Survey is investigating heavy metal contamination of prawn stocks. In general, these projects tend to be strategic research aimed at the longer-term sustainability of the fishery resources.

**DE:** fishery-management; marine-fisheries; fishery-resources; research-programmes; ISEW,-Australia; ISEW,-Papua-New-Guinea

**CL:** General-Aspects:-Research-programs-and-expeditions-1105

**JA:** ASFA-1:-Biological-Sciences-and-Living-Resources (Q1)

**OZ:** Pacific-Southwest (ISEW)

**IC:** AU9500657 AN: 3815133 UD: 9603

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Ciguatoxin is a lipid-soluble, non-protein toxin, produced by a dinoflagellate Gambierdiscus toxicus. It has been shown to pass along the food web from one animal to another, and ultimately can cause severe poisoning of humans. A toxic fraction has been isolated from fish, from herbivorous molluscs such as abalone and sea hare, from herbivorous and carnivorous crabs, and a number of oyster species. Certain heavy metals (copper, zinc and cadmium) are known to bind to metallothioneins in the storage organs of numerous vertebrates and invertebrates. It is here contended that the uptake and storage of metals in marine creatures will be similar to that of ciguatoxin. The passage of ciguatoxin through the marine biota is a model for the movement of metals.

**DE:** ciguatoxin-; food-chains; heavy-metals; marine-organisms; pollution-dispersion

**CL:** Pollution:-Characteristics,-behavior-and-fate-1503

**JA:** ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5)

**IC:** AU9500656 AN: 3815132 UD: 9603

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Three of the six species of marine turtles that occur in the Torres Strait are represented by both nesting and foraging groups. Genetic uniqueness has been demonstrated for the regional green turtle nesting group but not for any of the other species. The number of nesting green turtles is correlated with an index on the Southern Oscillation. Pesticides and heavy metals do accumulate in the bones, soft tissues and eggs of marine turtles but the impact cannot be evaluated. International cooperation will be necessary for a regional conservation effort to be successful.

**DE:** turtle-fisheries; population-number; breeding-; pollution-effects; fishery-management; Chelonidae-; Dermochelidae-; ISEW,-Australia; ISEW,-Papua-New-Guinea

**CL:** Fishable-stocks:-Stock-assessment-and-management-1604

**JA:** ASFA-1:-Biological-Sciences-and-Living-Resources (Q1)

**IC:** AU9500655 AN: 3815131 UD: 9603

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Three chemical-biological surveys have been conducted within the eastern Torres Strait and bordering zones of the far northern Great Barrier Reef and Gulf of Papua. Waters of the eastern Torres Strait and far northern GBR are characterised by moderately low dissolved and particulate nutrient concentrations. Elevated concentrations of silicate and nitrate are associated with extensions of low salinity waters of the Fly River plume into the northeastern Torres Strait region. Extensive mixing caused by tidal currents through the reef matrix results in a well mixed water column for most biological and chemical parameters. Because of their clarity and general shallowness, a significant proportion of light reaches the bottom, regardless of depth on the shelf. On a volume basis, shelf waters of the far northern GBR are highly productive, but production per unit area is low because of the shallowness of the water column. DE: biological-production; marine-ecology; chemical-oceanography; nutrients-mineral; ISEW,-Australia; ISEW,-Papua-New-Guinea; ISEW,-Great-Barrier-Reef CL: Productivity,-Ecosystems,-Species-Interactions:-Productivity-1481 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500654 AN: 3815130 UD: 9603

Queensland set up a Torres Strait Project in July 1985 to investigate the movement and distribution of the commercial prawn species in the region and to assess seasonal and area closures to ensure that they are being applied in the most effective way. Data from trawl samples and tagging studies are being used to investigate the life cycles of Penaeus esculentus, the brown tiger prawn, Metapenaeus endeavouri, the endeavour prawn, and P. longistylus, the red spot king prawn. An unusual feature of the Torres Strait prawn fishery is that the juvenile seagrass nurseries are located on coral reef platforms rather than estuarine mudflats. Migration and spawning patterns are briefly described. There are indications that areas with high densities of undersized prawns are restricted to the wester side of the fishery, so that extended area closures may be more effective than total-area seasonal closures. Future research will concentrate on spawning and recruitment patterns, and on simulation modelling for assessment of management options. DE: shrimp-fisheries; life-cycle; population-dynamics; fishery-management; research-programmes; Penaeus;- Metapenaeus-; ISEW,-Australia,-Queensland CL: Fishable-stocks:-Stock-assessment-and-management-1604 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: AU9500653 AN: 3815129 UD: 9603

An aerial survey of dugong populations in the Torres Strait region was conducted in November 1987, and partly repeated in March 1988. The minimum population estimate in November 1987 was about 12,000 dugongs at an overall density of about 0.4 per square km. The repeat survey revealed no significant differences, but relatively more sightings were made near the western
islands. If the dugong population were increasing maximally, a total man-induced mortality of 700 per year might be supportable; on a more realistic estimate of increase, the figure is closer to 300; and if females are being caught selectively, even less. In the absence of detailed catch statistics and adequate knowledge of the life cycle, it is impossible to confirm that the population is stable at present. Environmental education programmes should assume that no increase in catch is supportable. Proposals are made for extension of the current dugong sanctuary area.

| 500 | ASFA | 29 of 132 TI: Processes influencing the fate of trace metals in Torres Strait: A review of current data and concepts AU: Waite,-T.D.; Szymczak,-R. AF: Australian Nuclear Science and Technology Organ., Menai N.S.W. 2234, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1990 SO: SUSTAINABLE-DEVELOPMENT-FOR-TRADITIONAL-INHABITANTS-OF-THE-TORRES-STRAIT-REGION. Lawrence,-D.;Cansfield-Smith,-T.-eds. TOWNSVILLE,-QLD-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 pp. 165-183 IS: ISBN 0-642-12028-5 ISSN 0156-5842 ST: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. NT: maps, graphs, 6 tables, 24 ref. RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: The existing data on trace metals concentrations in Torres Strait waters and sediments is compiled, methods reviewed and the data briefly discussed. Physico-chemical processes likely to be important in the supply to and mobilisation within Torres Strait are then considered, and on the basis of existing data attempts are made to refine the range of possibilities for sources, transformation processes and fate of heavy metals in the system. A brief compilation of additional data to assist in predictive modelling is also provided. DE: marine-pollution; sediment-pollution; trace-metals; pollution-dispersion; chemical-oceanography; ISEW,-Australia,-Queensland,-Cape-York-Peninsula; ISEW,-Torres-Strait; heavy-metals; physicochemical-properties; ISEW,-Papua-New-Guinea CL: Pollution:-Characteristics,-behavior-and-fate-1503; Chemistry-and-Geochemistry:-Composition-of-water-2184 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5); ASFA-2:-Ocean-Technology-Policy-and-Non-Living-Resources (Q2) OZ: Pacific-Southwest (ISEW) IC: AU9500651 AN: 3815127 UD: 9603 |


Environmental investigations have been undertaken by Ok Tedi Mining Limited (OTML) since 1981. An environmental monitoring and management programme was implemented in 1983. The programmes included water quality monitoring, river flow and sediment monitoring, surveillance of aquatic biological communities and a health and nutrition study of the local people. These original programmes have continued, and additional programmes of work have been developed and revised to reflect changing operations and the need to focus investigations on specific areas and issues of concern. In April 1990, following the establishment by the Government of Papua New Guinea of environmental management criteria for the Fly River system, compliance monitoring programmes were introduced. Details of the programmes undertaken are presented.

The Fly Delta extends for about 30 k offshore from the southern coast of Papua New Guinea. The area is dominated by fine grained terrestrially derived muds. To the south the region of Torres Strait is represented by predominantly carbonate sediments. High levels of zinc and copper were found to be associated with the terrigenous sediments. The concentrations are comparable to those reported for industrialised areas elsewhere. Possible sources of the metals include erosion and drainage of the highly mineralised rocks found in the catchment area and the input of contaminated mine waste into the system. A linear correlation was found between the copper and zinc concentrations and the distance of sample sites from the estuary. A correlation was also found between the percentage of fine grained particles and copper concentrations. This study indicates that future work should investigate historical changes in copper and zinc concentrations in the sediments and the ultimate fate of metals associated with the particulate matter in the Fly River.

It has been speculated that freshwater and sediment discharge from the river in the Gulf of Papua New Guinea provide an explanation of the sudden cessation of the Great Barrier Reef at about 9 degrees South. Tidal currents dominate in the transport of sandy sediments throughout the Fly Estuary. On the delta front, however, surface waves rework the muds and sands, and fluvial discharge events deposit a mud layer, resulting in seasonal sand-mud interbeds. Pro-delta deposits occur in 17 to 45 metres water depth and contain massively bedded muds deposited in low tidal and wave energy settings at up to 6 cm per year. In the Torres Strait and barrier reef lagoon environments, tidal currents rework seabed deposits, dispersing any Fly...
River sediments over a wide area. A preliminary sediment budget demonstrates that half of the Fly River sediment is deposited in the Fly Delta. A large proportion is probably deposited in the Gulf of Papua. Less than 2 percent of the annual discharge of the Fly River seems to enter the Torres Strait region. Other effects must explain the termination of the Great Barrier Reef. DE: sedimentation-; deltas-; river-discharge; coral-reefs; ISEW,-Great-Barrier-Reef; Papua-New-Guinea,-Fly-R. CL: Environmental-Changes,-Conservation,-Public-Health:-Mechanical-and-natural-changes-1521 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500644 AN: 3815120 UD: 9603


| 507 | ASFA | 40 of 132 TI: Sustainable development for traditional inhabitants of the Torres Strait region AU: Lawrence,-D.; Cansfield-Smith,-T. AF: Great Barrier Reef Marine Park Authority, Townsville Qld 4810, Australia CO: Torres Strait Baseline Study Conference, Cairns, Qld (Australia), 19 Nov 1990 SO: WORKSHOP-SER.-GREAT-BARRIER-REEF-MAR.-PARK-AUTH. TOWNsville,.-QLD.-AUSTRALIA GREAT-BARRIER-REEF-MARINE-PARK-AUTHORITY 1991 535 pp IS: ISBN 0-642-12028-5 ISSN 0156-5842 RN: 16 PY: 1991 LA: English LS: English PT: B (Book); K (Conference) AB: The Torres Strait Baseline Study was instigated in response to concerns expressed by Torres Strait islanders, commercial fishermen and scientists, about possible effects on the marine environment in the area arising from mining operations in the Fly River catchment area of Papua New Guinea. The study began with the holding of a conference on the physical, biological and human
environments of the region. DE: conferences--; marine-pollution; pollution-effects; mining--; baseline-studies; sociological-aspects; ISEW,-Torres-Strait; Papua-New Guinea,-Fly-R.; ISEW,-Australia,-Queensland,-Cape-York-Peninsula CL: Pollution:- General-1501 JA: ASFA-3:-Aquatic-Pollution-and-Environmental-Quality (Q5) OZ: Pacific-Southwest (ISEW) IC: AU9500640 AN: 3815116 UD: 9603


509 ASFA 53 of 132 TI: Management and status of the Queensland pearl fishery AU: Coles,-R. AF: Queensland Dep. Primary Ind., Northern Fish. Cent., Cairns, Qld. 4870, Australia CO: Queensland Pearl Industry Workshop, Thursday Island, Qld. (Australia), 22 Jun 1994 SO: DEVELOPING-THE-TORRES-STRAIT-AND-QUEENSLAND-EAST-COAST-PEARL-INDUSTRY-1994-INDUSTRY-WORKSHOP. Golden,-S.;Turnbull,-C.;Coles,-R.-eds. BRISBANE,-QLD.-AUSTRALIA DEPARTMENT-OF-PRIMARY-INDUSTRIES 1994 no. QC94006 pp. 1-8 IS: ISBN 0-7242-5891-4 ISSN 0729-2597 ST: CONF.-WORKSHOP-SER.-DEP.-PRIMARY-IND.-QUEENSL. no. QC94006 PY: 1994 LA: English LS: English PT: B (Book); K (Conference) ER: M (Marine) AB: The Queensland pearl fishery has a low profile, partly because it operates in the far north of the state and in remote locations, partly because the product is marketed generically as 'Australian' or 'South Sea' pearls. Still, interest is high in the region and despite the administrative difficulty of establishment, the number of licensed farms has almost tripled since 1980. A major problem is to locate sufficient stocks of healthy mature shell; establishment of hatcheries may be a partial solution. Shell mortality has threatened the viability of farms. New administrative arrangements have improved the accessibility of statutory managers to farmers. There is a need now for the establishment of an industry association to exploit this new opportunity. DE: pearl-culture; pearl-fisheries; fishery-management; aquaculture-enterprises; Pinctada--; Australia,-Queensland; ISEW,-Torres-Strait; ISEW,-Australia,-Queensland,-Torres-Strait CL: Aquaculture:-Shellfish-culture-1583; Fishable-stocks:-General-1601; Aquaculture:-Shellfish-culture-1583 JA: ASFA-1:-Biological-Sciences-and-Living-Resources (Q1); ASFA-Aquaculture-Abstracts (Q3) IC: AU9500600 AN: 3746456 UD: 9509

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<td>ASFA</td>
<td>Heavy metal pollution</td>
<td>Harris, P.</td>
<td>PKT-SEAFood-DIG 1992, vol. 5-6, no. 12-1, p. 13 NT: AIC HD9466.P32P35. PY: 1992 LA: English PT: J (Journal-Article) ER: M (Marine); B (Brackish); F (Freshwater) AB: Work carried out by the Ocean Sciences Institute (OSI) at the University of Sydney suggests that the Fly River (Papua New Guinea) sediment is transported in suspension into the Great North East Channel fishing grounds, where inorganic land-derived muds comprise up to 40% of the bottom sediments. Background metal levels in the water, bottom sediments and fauna of the Torres Strait and the Fly River delta are as yet unknown. Also, it is not yet known if the Fly River sediment presently reaching Torres Strait is in fact &quot;polluted&quot;. OSI scientists have recently completed a cruise on board HMAS Flinders , collecting sediment and water samples and information on currents in the Warrier Reef area. The samples will be examined for their heavy metal content and the movement of sediments will be studied. The information gathered will help the Australian fishing industry and Government authorities to more effectively manage the Torres Strait fisheries. DE: pollution-effects; heavy-metals; fishery-industry; environmental-impact; waste-disposal; marine-environment; bioaccumulation-; ISEW-; Australia-; Queensland-; Torres-Strait; ISEW-; Papua-New-Guinea-; Fly-R.-Delta; sediment-pollution CL: Pollution-; Effects-on-organisms-1504; Practical-Aspects-of-Fisheries-; General-1561 JA: ASFA --3-; Aquatic-Pollution-and-Environmental-Quality (Q5); ASFA --1-; Biological-Sciences-and-Living/Resources (Q1) OZ: Pacific-Southwest (ISEW) IC: CS9212050 AN: 2761260</td>
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532  BA on CD  TI: Notes on the early stages of Orsotriaena medus moira Waterhouse and Lyell and Melanitis constancia Cramer (Lepidoptera: Nymphalidae: Satyrinae) from Torres Strait, Australia. AU: Johnson-S-J; Johnson-I-R; Valentine-P-S CS: Oonoomba Veterinary Lab., P.O. Box 1085, Townsville, QLD 4810, Australia SO: Australian Entomologist 22(3): 65-68 PY: 1995 IS: 1320-6133 LA: English AB: The distinctive early stages of Orsotriaena medus moira Waterhouse & Lyell are described from northern Australia and compared with those of the closely allied Mycalesis spp. Cluster laying and larval gregariousness are recorded for the first time in Melanitis constancia Cramer and the early stages are described. DE: RESEARCH ARTICLE; ORSOTRIAENA MEDUS MOIRA; MELANITIS CONSTANTA; DESCRIPTION; LARVAL BEHAVIOR CC: CC07003 (Behavioral-Biology-Animal-Behavior); CC11103 (Anatomy-and-Histology-General-and-Comparative- Comparative-Anatomy); CC25508 (Developmental-Biology-Embryology-Morphogenesis-General) ; CC63584 (Invertebrata-General-and-Systematic-Zoology-Insecta- Lepidoptera); CC64074 (Invertebrata-Comparative-and-Experimental-Morphology- Physiology-and-Pathology-Insecta-Morphology-Comparative) BC: BC75330 Lepidoptera ST: Animals; Invertebrates; Arthropods; Insects JA: Biological Abstracts Vol. 101, Iss. 5, Ref. 65731. UD: 9601

533  BA on CD  TI: Sea-turtle rookeries in northwestern Torres Strait (Australia). AU: LIMPUS-C-J; ZELLER-D; KWAN-D; MACFARLANE-W CS: Queensland National Parks Wildlife Service, P.O. Box 5391, Townsville M.S.O., Qld. 4810, Aust SO: AUSTRALIAN WILDLIFE RESEARCH 16(5): 517-526 PY: 1989 CO: AWLRAO LA: English AB: Deliverance Island, Kerr Islet and Turu Cay in north-western Torres Strait support a major nesting population and the most northerly recorded rookery of the flatback turtle, Natator depressa. Nesting occurs there year round, with a peak in the early months of the year. The islands are insignificant nesting sites for the green turtle, Chelonia mydas, and the hawksbill turtle, Eretmochelys imbricata. The N. depressa turtles that nest in western Torres Strait-north-eastern Gulf of Carpentaria are smaller and lay smaller eggs on average than the N. depressa turtles that breed in the southern Great Barrier Reef. On Deliverance Island, the inhabitants of nearby Queensland islands and Papua New Guinea coastal villages infrequently harvest N. depressa eggs as well as the green turtles that feed over the surrounding reef flats. DE: NATATOR DEPRESSA; CHELONIA MYDAS; ERETMOCHELYS IMBRICATA; NESTING POPULATION; EGG SIZE; HARVESTING; QUEENSLAND ISLAND; PAPUA NEW GUINEA; GREAT BARRIER REEF CC: CC07508 (Ecology-Environmental-Biology-Animal); CC07516 (Ecology-Environmental-Biology-Wildlife-Management- Aquatic); CC16501 (Reproductive-System-General-Methods); CC25502 (Developmental-Biology-Embryology-General-and- Descriptive) CC: CC62800 (Animal-Distribution) BC: BC85402 Chelonia ST: Animals; Chordates; Vertebrates; Nonhuman vertebrates; Reptiles JA: Biological Abstracts Vol. 90, Iss. 1, Ref. 2315. UD: 9003

534  BA on CD  TI: Notes on the ant genera Romblonella and Willowsiella, with comments on their affinities, and the first descriptions of Australian species (Hymenoptera: Formicidae, Myrmicinae). AU: TAYLOR-R-W CS: c/o Australian Natl. Insect Coll., CSIRO Div. Entomol., GPO Box 1700, Canberra, A.C.T. 2601, Australia SO: PSYCHE (CAMBRIDGE) 97(3-4): 281-296 PY: 1990 CO: PYCHAQ LA: English AB: Romblonella heatwolei (Wyer Island, Torres Strait, Queensland) and Willowsiella anderseni (King Edward River, Western Australia) n. spp. are the first species of their genera to be reported from Australia. The genera are assigned to tribe Leptothoracini. DE: ROMBLONELLA HEATWOLEI new species; WILLOWSIELLA ANDERSENI new species; LEPTOTHORACINI CC: CC00504 (General-Biology-Taxonomy-Nomenclature-and-Terminology); CC11102 (Anatomy-and-Histology-General-and-Comparative-Gross- Anatomy); CC62800 (Animal-Distribution); CC63582 (Invertebrata-General-and-Systematic-Zoology-Insecta- Hymenoptera); CC64074 (Invertebrata-Comparative-and-Experimental-Morphology- Physiology-and-Pathology-
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Tisiphone helena, were comparatively scarce in this zone. The tropical satyrine fauna, which comprises northern, southern and endemic elements, is relatively species poor compared with that of temperate south-eastern Australia. DE: RESEARCH ARTICLE; GEOGRAPHIC DISTRIBUTION; RELATIVE ABUNDANCE; HABITAT CC: CC07508 (Ecology-Environmental-Biology-Animal); CC62800 (Animal-Distribution); CC63584 (Invertebrata-General-and-Systematic-Zooology-Insecta-Lepidoptera) BC: BC75330 Lepidoptera ST: Animals; Invertebrates; Arthropods; Insects JA: Biological Abstracts Vol. 99, Iss. 11, Ref. 15869. UD: 9502

538 BA on CD TI: New and interesting butterfly records (Lepidoptera) from Torres Strait Islands. AU: Johnson-S-J; Johnson-I-R; Valentine-P-S CS: Oonoonba Vet. Lab., P.O. Box 1085, Townsville, QLD 4810, Australia SO: Australian Entomologist 21(4): 121-124 PY: 1994 IS: 1320-6133 LA: English AB: Tellervo zoilus digulica Hulstaert, Melanitis constantia Cramer and Nacaduba calauria (Felder) are recorded from Australia for the first time. Telicota colon argeus (Plotz) and Nacaduba pactolus (Felder) are recorded from Murray Island and Deudorix diovis Hewitson from Darnley Island. DE: RESEARCH ARTICLE; TELLERVO ZOILUS DIGULICA new record; MELANITIS CONSTANTIA new record; NACADUBA CALAURIA new record; TELICOTA COLON ARGEUS new record; NACADUBA PACTOLUS new record; DEUDORIX DIOVIS new record; GEOGRAPHIC DISTRIBUTION; AUSTRALIA CC: CC62800 (Animal-Distribution); CC63584 (Invertebrata-General-and-Systematic-Zooology-Insecta-Lepidoptera) BC: BC75330 Lepidoptera ST: Animals; Invertebrates; Arthropods; Insects JA: Biological Abstracts Vol. 99, Iss. 10, Ref. 143912. UD: 9502

539 BA on CD TI: An Annotated Catalogue of the Australian Cicadelloidea (Hemiptera: Auchenorrhyncha). AU: Day-M-F; Fletcher-M-J CS: CSIRO Div. Entomol., GPO Box 1700, Canberra, ACT 2601, Australia SO: Invertebrate Taxonomy 8(5): 1117-1288 PY: 1994 IS: 0818-0164 LA: English AB: All species of the families Cicadellidae, Eurymelidae and Membracidae described from Australia are listed, together with details of the primary type (type locality, type depository, collection details), known distribution and known hosts. Where appropriate, notes are given on nomenclature, biology and economic significance. Lectotypes are designated for Eurinocospinus santiates Kirkaldy (Iassinae), Eutettix selbyi Evans (Deltocephalinae) and Emopoasca australis Froggatt (Typhlocybinae). Idioscopus niveosparsus (Lethyierry) (Idiocerinae) is recorded from Torres Strait islands, the first Australian records of this species. Ipoides brunomaculatus Evans (Eurymelidae:Ipoini) is recorded from Australia for the first time. The following nomenclatural changes are made. Batracomorphus pallas Knight is synonymised with Batracomorphus santiates (Kirkaldy). Bythoscolus testaceus Walker is synonymised with Krisna kirbyi (Kirkaldy). Limotettix condylus Knight is synonymised with Limotettix pullatus (Evans). Vulturnus vappa Kirkaldy is synonymised with Neovulturinus vaedulcis (Kirkaldy). Nesosteles phryne Kirkaldy is synonymised with Nesoclutha pallida (Evans). The genus Diemoides Evans is reinstated from synonymy with Paralimnus Matsumura. Mitelloides mouldsi Stevens is emended to M. mouldsorum Stevens. Ledropsis froggatti Distant is given priority over L. crocina Distant. Macropsis fuscoguttatus, nom. nov., is proposed for Macropsis fuscopunctatus (Evans 1942). New combinations proposed are Ishidaella quadrata (Walker), Protartessus occidentalis (Jacobi), Sterrellus mitis (Kirkaldy), Recilia vetus (Knight), Arawa detracta (Walker), Limotettix pullatus (Evans), Hecalus australis (Evans), Kahaono aneala (Kirkaldy), Zygina evansi (Ross), Zygina honiala (Kirkaldy), Zygina ipola (Kirkaldy), Zygina lubra (Kirkaldy), Zygina melanogaster (Kirkaldy) and Zygina sativa (Evans). DE: CATALOG; SYNONYM; TAXONOMY; ECONOMIC SIGNIFICANCE; ECOLOGY; ZOOGEOGRAPHY; AUSTRALIA CC: CC00504 (General-Biology-Taxonomy-Nomenclature-and-Terminology); CC07508 (Ecology-Environmental-Biology-Animal); CC62800 (Animal-Distribution); CC63578 (Invertebrata-General-and-Systematic-Zooology-Insecta- Hemiptera-Heteroptera) BC: BC75320 Hemiptera ST: Animals; Invertebrates; Arthropods; Insects JA: Biological Abstracts Vol. 99, Iss. 7, Ref. 97425. UD: 9502

540 BA on CD TI: Torres Strait baseline study. AU: Gladstone-W; Dight-I-J CS: Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville, QLD 4810, Australia SO: Marine Pollution Bulletin 29(1-3): 121-125 PY: 1994 IS: 0025-326X LA: English AB: A baseline study has been carried out in Torres Strait, separating northern Australia from Papua New Guinea, to investigate concentration levels of various metals within the sediments and their biota and a range of organisms either consumed locally or exported. The study was initiated as a result of the concern by the Torres Strait
Islanders in the mid-1980s regarding the possible effect of copper and gold mines which had been established adjacent to the Fly River and its catchment in Papua New Guinea. During the monsoon season the prevailing winds tend to direct the river outflows from the Fly River into northern Torres Strait. A pilot study was initially carried out and showed that sediments in Torres Strait are a mixture of those deposited from the Fly River and those derived from marine sources. Northern Torres Strait sediments appear to be derived primarily from the Fly River whereas sediments in other parts of the Strait are marine-derived sediments. Trace metals were elevated in some seafoods consumed by the Islanders, and levels of copper might be a result of discharge from the mines. However, trace metal levels in biota varied both spatially and seasonally in some areas. Basically the pilot study has shown that the Fly River is a periodic source of fine sediments containing a suite of trace metals and a number of species have been shown to be potentially useful as indicators of variations in trace metals. This study has allowed a more extensive study to be carried out and the complex results are currently being analysed. In addition they recommend that another survey should be carried out concentrating on rates of consumption of those foods shown to have high levels of some trace metals. The study is also important as local Islanders were involved in all stages of the development and undertaking of the survey.

DE: RESEARCH ARTICLE; ORGANISM; METAL CONCENTRATION; SEDIMENTS; COPPER; GOLD; MONSOON SEASON; RIVER OUTFLOW; WIND; SEAFOOD; CONTAMINATION; BIOINDICATOR; AUSTRALIA; PAPUA NEW GUINEA; SOUTH PACIFIC OCEAN CC: CC00512 (General-Biology-Conservation-Resource-Management); CC07504 (Ecology-Environmental-Biology-Bioclimatology-and- Biometeorology); CC07512 (Ecology-Environmental-Biology-Oceanography); CC07514 (Ecology-Environmental-Biology-Limnology); CC07516 (Ecology-Environmental-Biology-Wildlife-Management- Aquatic); CC12100 (Movement); CC13522 (Food-Technology-Fish-and-Other-Marine-and-Freshwater-Products); CC13530 (Food-Technology-Evaluations-of-Physical-and-Chemical-Properties); CC37015 (Public-Health-Environmental-Health-Air-Water-and-Soil-Pollution); CC52805 (Soil-Science-Physics-and-Chemistry); CC62510 (Chordata-General-and-Systematic-Zoology-Pisces) CC: CC10069 (Biochemical-Studies-Minerals) BC: BC00500 Organisms-Unspecified JA: Biological Abstracts Vol. 99, Iss. 6, Ref. 76645. UD: 9501

541 BA on CD TT: Patterns of disseminule dispersal by drift in the north-west Coral Sea. AU: Smith-J-M-B CS: Dep. Geography Planning, Univ. New England, Armidale, NSW 2351, Australia SO: New Zealand Journal of Botany 32(4): 453-461 PY: 1994 IS: 0028-825X LA: English AB: Assemblages of drift disseminules are described from beaches at 56 sites in the Torres Strait - northern Great Barrier Reef region. Although most taxa have wide distributions, others which are geographically more restricted display patterns allowing drift directions to be defined. New Guinea-derived disseminules drift southwards to at least 11 degree 51'S, while Australia-derived ones may drift northward close to the east coast of Cape York Peninsula. Large amounts of drift also move westward across the Coral Sea towards Australia, including much jetsam originating from shipping. All three elements contribute to drift moving west into Torres Strait. These patterns are consistent with those of winds and currents, which suggest that westward drift in the north of the study region occurs particularly around June-September, while in December-March southward drift off the Australian coast into the Tasman Sea is likely to be particularly pronounced. DE: RESEARCH ARTICLE; SEED DISPERSAL; SEA CURRENTS; NEW GUINEA; AUSTRALIA; CAPE YORK PENINSULA; TASMAN SEA; GREAT BARRIER REEF; TORRES STRAIT; SOUTH PACIFIC OCEAN CC: CC07506 (Ecology-Environmental-Biology-Plant); CC07512 (Ecology-Environmental-Biology-Oceanography); CC12100 (Movement); CC51502 (Plant-Physiology-Biochemistry-and-Biophysics-Water-Relations); CC51512 (Plant-Physiology-Biochemistry-and-Biophysics- Reproduction) BC: BC25000 Spermatophyta ST: Plants; Vascular plants; Spermatophytes JA: Biological Abstracts Vol. 99, Iss. 5, Ref. 60887. UD: 9501

542 BA on CD TT: Asiatic citrus canker detected in a pummelo orchard in northern Australia. AU: BROADBENT-P; FAHY-P-C; GILLINGS-M-R; BRADLEY-J-K; BARNES-D CS: NSW Agric., Biol. Chem. Res. Inst., PMB 10, Rydalmere 2116, Aust SO: PLANT DISEASE 76(8): 824-829 PY: 1992 CO: PLDIDE LA: English AB: Raised, roughly circular, corky scabs 4-5 mm in diameter and typical of citrus canker were observed on spring flush leaves, twigs, and fruits of pummelos (Citrus grandis) in a young orchard
near Darwin, Australia, during a survey conducted in 1991 as part of the Northern Australia Quarantine Strategy. The causal agent was identified as Xanthomonas campestris pv. citri (Asian group, or group A), using pathogenicity in a series of hosts, fatty acid profiles and DNA fingerprints. The 10 strains from Darwin were compared with two previously identified strains of X. c. citri (group A) from a canker outbreak (which has since been eradicated) on Thursday Island in the Torres Strait. Symptoms on inoculated leaves of sweet orange, West Indians lime, sour orange, and Duncan grapefruit included lesions of eruptive, calluslike white tissue and were produced by all strains. Lesions were larger and more erumpent on seedlings or detached leaves of West Indian lime, sweet orange, and Duncan grapefruit. On citrange C-35 (Poncirus trifoliata times C. sinensis) leaves, calluslike lesions were produced by Thursday Island strains, and small, light tan, necrotic areas were produced by the Darwin strains. The fatty acid profiles of the Thursday Island strains were similar to a library generated from the fatty acid profiles of the Darwin strains (with similarity indices of 0.610 and 0.810). All Darwin strains had identical DNA restriction pattern, which were similar (with a similarity coefficient of 94%) but not identical to those produced from the reference Thursday Island strains. These results confirm that the canker outbreak near Darwin was caused by X. c. citri (group A). All citrus trees within the diseased orchard have been destroyed. No further outbreaks have been detected. DE: XANTHOMONAS CAMPESTRIS; CITRUS GRANDIS; CITRUS SINENSIS; PONCIRUS TRIFOLIATA; PLANT; BACTERIA; MICROORGANISM; DNA FINGERPRINTS; FATTY ACID PROFILES; FRUITS; CROP INDUSTRY; AGRICULTURE CC: CC31000 (Physiology-and-Biochemistry-of-Bacteria); CC31500 (Genetics-of-Bacteria-and-Viruses); CC32004 (Horticulture-Tropical-and-Subtropical-Fruits-and-Nuts-Plantation-Crops); CC54504 (Phytopathology-Diseases-Caused-by-Bacteria) CC: CC10062 (Biochemical-Studies-Nucleic-Acids-Purines-and-Pyrimidines); CC10066 (Biochemical-Studies-Lipids); CC13004 (Metabolism-Lipids) BC: BC06508 Pseudomonadaceae; BC26685 Rutaceae ST: Microorganisms; Eubacteria; Bacteria; Plants; Vascular plants; Spermatophytes; Angiosperms; Dicots JA: Biological Abstracts Vol. 94, Iss. 7, Ref. 78000. UD: 9204
commercial shrimp trawlers. Return rates were three to six times greater for shrimp released within the commercial fishery to the east of Warrior Reefs, than those released to the west. Shrimp released to the west of the Warrior Reefs, which is permanently closed to fishing, averaged 7-10 weeks at liberty and travelled an average of 55 km before recapture, compared with a 3-4 week, 5-km journey for those released in the east. We established that the growth parameter $K$ should be estimated separately for males and females of the two species. In contrast to $P$. esculentus, a common estimate of the growth parameter $L_{\infty}$ was indicated for both sexes of $M$. endeavouri. Although female $M$. endeavouri generally did not grow as large as female $P$. esculentus the males of the two species grew to a similar size. Net migration speeds, distance and direction were estimated. After correction for the spatial-temporal distribution of fishing effort there was still evidence of an eastward and southward movement of all tagged shrimp indicating that $P$. esculentus and $M$. endeavouri migrated from the unfished West into the East and contributed to commercial catches in the fishery.

DE: 

PENAEUS ESCULENTUS; METAPENAEUS ENDEAVOURI; COMMERCIAL SPECIES; RESOURCE MANAGEMENT 

CC: CC00512 (General-Biology-Conservation-Resource-Management); CC07003 (Behavioral-Biology-Animal-Behavior); CC07516 (Ecology-Environmental-Biology-Wildlife-Management-Aquatic); CC12100 (Movement); CC25508 (Developmental-Biology-Embryology-Morphogenesis-General); CC64054 (Invertebrata-Comparative-and-Experimental-Morphology-Physiology-and-Pathology-Arthropoda-Crustacea) 

BC: BC75112 Malacostraca ST: Animals; Invertebrates; Arthropods; Crustaceans JA: Biological Abstracts Vol. 96, Iss. 9, Ref. 97899. UD: 9304
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1989: appointment of polling places: 1994 Torres Strait Regional Authority elections . 
ISSN 1032-2345 .Other Identification nos 9409570 . ... --- 

557 AGPS 0.90 1994, S 17 (18 January) Aboriginal and Torres Strait Islander Commission Act
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558 AGPS 0.90 1994, S 16 (17 January) Aboriginal and Torres Strait Islander Commission Act
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559 AGPS 0.90 Torres Strait Protected Zone Joint Authority Annual report ; Torres Strait
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560 AGPS 0.87 Annual report 1992-93 Annual report 1992-93 . . . Title Annual report 1992-93
 .Author Torres Strait Protected Zone Joint Authority . . ISSN 0819-1050 .Other
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561 AGPS 0.84 Annual report 1990-91 Annual report 1990-91 . . . Title Annual report 1990-91
 .Author Torres Strait Protected Zone Joint Authority . . ISSN 0819-1050 .Other
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562 AGPS 0.84 Sea transport serving the Torres Strait area Sea transport serving the Torres Strait
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563 AGPS 0.84 Torres Strait tide tables Daily and hourly predictions of tides at: Booby Island,
Goods Island, Turtle Head, Ince Point, Twin Island, Frederick Point, Rennel Island for
January to December 1991 Torres Strait tide tables Daily and hourly predictions of
tides at: Booby Island, Goods Island, Turtle Head, Ince Point, Twin Island, Frederick
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Point, Twin Island, Frederick Point, Rennel Island for January to D... ---

564 AGPS 0.84 Torres Strait treaty Torres Strait treaty . . . Title Torres Strait treaty .Author Joint
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<p>| 569 | AGPS | 0.84 Torres Strait calendar Torres Strait calendar. Title Torres Strait calendar. Author Department of Primary Industries and Energy. Other Identification nos 8177075. Price $0.0. Availability NS. Search on a Topic or Order a copy. Last Updated: 11 Sep 1996. --- <a href="http://www.agps.gov.au/cis/23041.htm">http://www.agps.gov.au/cis/23041.htm</a> (1362 bytes) |
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