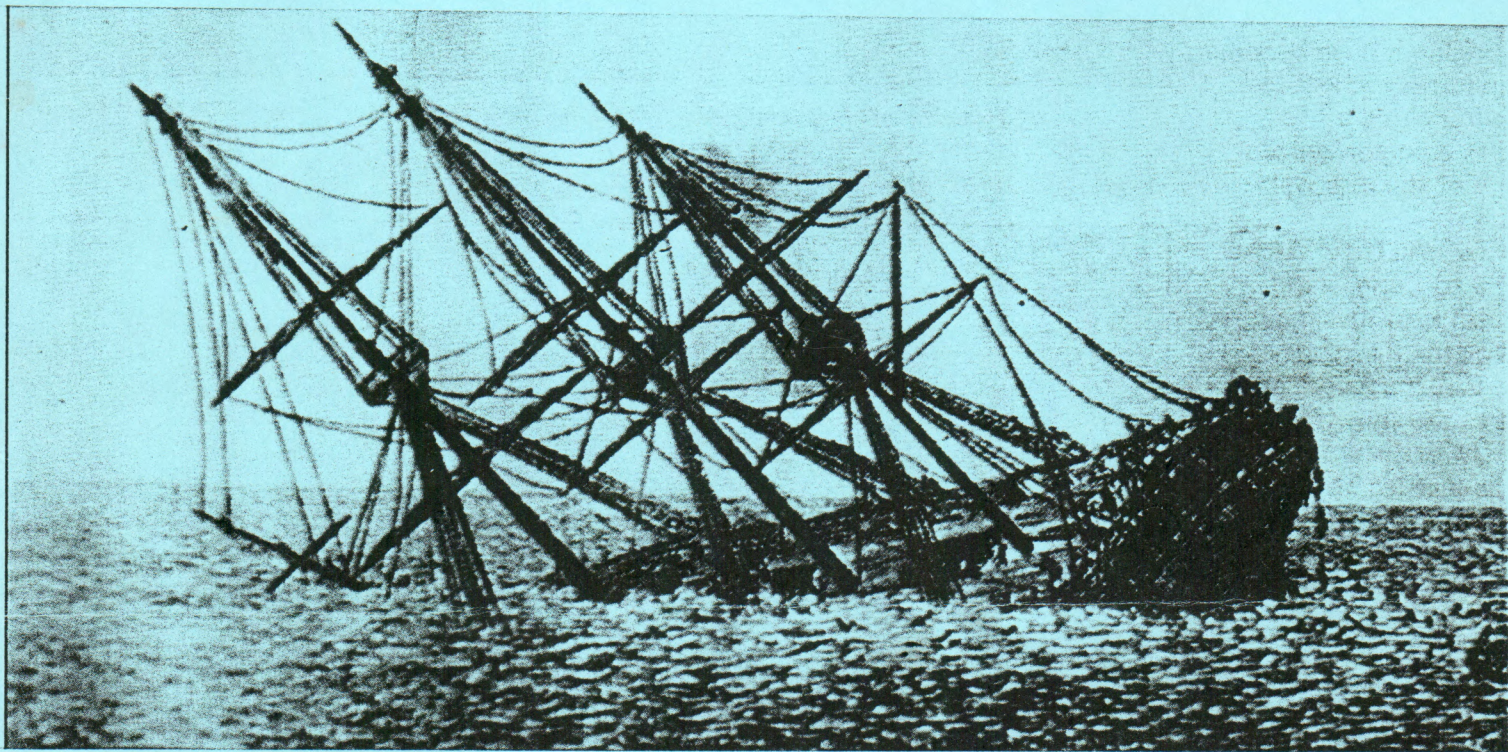


***SOUTH
PACIFIC
DIVERS
CLUB***



*A contemporary sketch of the 'Pandora' sinking
by Peter Heywood, a captured 'Bounty' Mutineer.*

W E T R A G

NOVEMBER 1993

AS YOU MAY BE AWARE, THE CLUB'S COMMITTEE HAS BEEN CONDUCTING DISCUSSIONS WITH BARRY ANDREWARTHA OF DIVE LOG / SPORTDIVING MAGAZINE AND CATHY HOLLOWAY OF SCUBA DIVER MAGAZINE. WE ARE PLEASED TO REPORT THAT AFTER LENGTHY DISCUSSIONS THE COMMITTEE HAS REACHED A DECISION ON WHICH MAGAZINE TO GO WITH.

WE FEEL THAT THE ADVANTAGES OF HAVING ACCESS TO DIVE LOG AND ALSO SPORTDIVING MAGAZINE WOULD BE MORE ADVANTAGEOUS FOR THE CLUB AND FOR PROMOTION OF THE "AUSTRALASIAN UNDERWATER PHOTOGRAPHER OF THE YEAR" PRESENTATION. THEREFORE FUTURE ARTICLES AND PROMOTIONS WILL BE THROUGH BARRY'S TWO PUBLICATIONS.

IT HAS NOT BEEN AN EASY DECISION TO MAKE BUT WE DO APPRECIATE ALL THE WORK PUT IN BY CATHY HOLLOWAY AND SCUBA DIVER MAGAZINE IN THE PAST.



sportdiving
MAGAZINE



"That was fast! ... Gunther! The Diver Delivery guy is here!"

SYDNEY OCEAN SAND MINING

A CONTROVERSIAL PROPOSAL TO EXTRACT SAND
FROM THE OCEAN FLOOR
OFF ROYAL NATIONAL PARK AND BOTANY BAY
HAS BEEN PUT FORWARD BY METROMIX

GUEST SPEAKER

AT OUR NEXT CLUB MEETING

MONDAY 15 NOVEMBER, 1994

MR MARCUS LINCOLN SMITH
DIRECTOR OF 'THE ECOLOGY LAB PTY LTD'
(THE COMPANY CONDUCTED THE MARINE ECOLOGY WORK
FOR THE ENVIRONMENTAL IMPACT STATEMENT)

MARCUS LINCOLN SMITH
IS A MARINE BIOLOGIST
WITH 'THE ECOLOGY LAB'
AND WILL BE ADDRESSING
THE MEETING ON
THE SAND EXTRACTION ISSUE.

QUESTIONS WILL THEN
BE ADDRESSED AT THE END
OF THE GUEST SPEAKER'S TALK.

*ALL MEMBERS & GUESTS
ARE ENCOURAGED TO ATTEND THE CLUB'S NEXT MEETING*

*IF YOU WISH TO KNOW MORE ABOUT THE PROPOSED
SAND EXTRACTION OPERATION BY METROMIX
AND TO HEAR THE POINTS OF VIEW
OF THOSE FOR AND AGAINST THIS ISSUE.*

SYDNEY OCEAN SAND MINING

IF YOU WANT TO PROTECT YOUR FAVOURITE DIVE,
FISHING AND SURFING SITES FROM DESTRUCTION,
YOU MUST ACT NOW AND WRITE OBJECTING
TO THE WHOLE ASPECT OF SAND MINING.

WRITE TO:

THE DEPARTMENT OF MINERAL RESOURCES

P.O. BOX 539,

ST. LEONARDS, 2065

OR CONTACT:

MICHAEL McFADYEN FOR FURTHER INFORMATION

ON 585 6454 (w), 558 8181 (h).

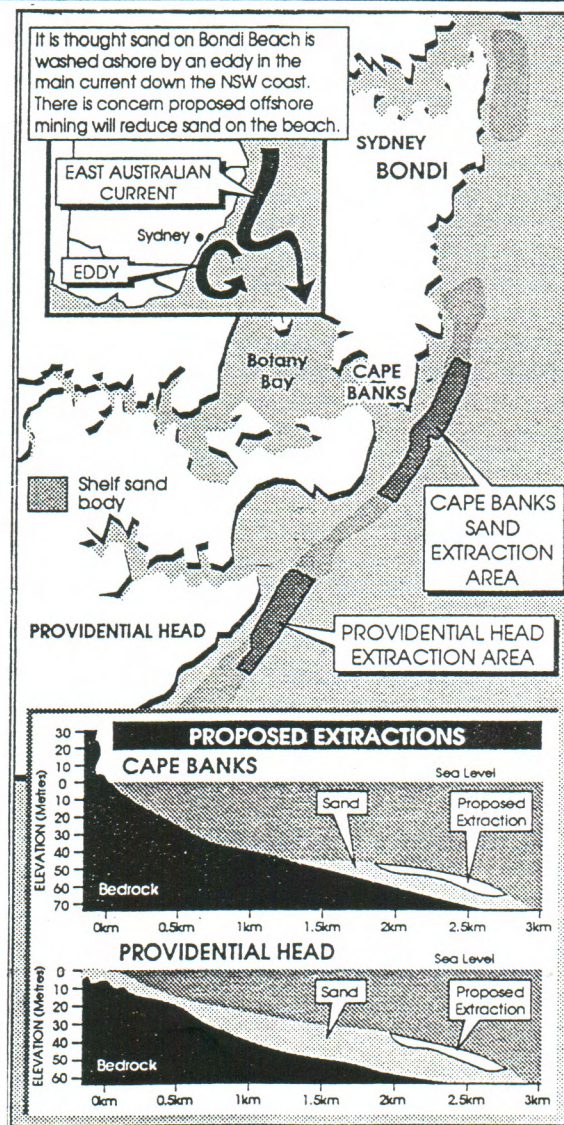
PUBLIC MEETING: SAND MINING

WEDNESDAY 24 NOVEMBER

AT 7.30 P.M.

AT CRONULLA - SUTHERLAND LEAGUES CLUB

CAPTAIN COOKS DRIVE, WOOLLOOWARE



Currents govern beaches

THE swirling ocean currents along the south-eastern coast of Sydney are extremely complex, varying both in direction and strength over time and with depth.

Beaches are eroded or built up depending on the dominant coastal processes at the time.

During a storm, waves remove sand from the beach and deposit it in deeper waters as sand bars. Wave action after storms replaces the sand.

Typically, the beach-building phase takes place over many months to several years.

Studies indicate there are five types of currents affecting sea conditions within or close to the proposed sandmining area off Cape Banks.

TIDAL currents are most often confined to the estuaries and outlets of bays such as Botany Bay.

WIND currents are most often found in the upper water column.

THE East Australian current is a large scale oceanic density current formed by the flow of warm, less dense water from the Coral Sea along the eastern coastline.

COASTAL trapped wave currents occur when changes in high and low pressure systems passing from west to east across southern Australia are thought to generate long period waves moving parallel to the coast along the continental shelf.

INTERNAL wave currents are generated in stratified sea conditions when the sea is disturbed. They generally form in warmer months.

DIVING ACTIVITIES

SATURDAY SHORE DIVES:

CONTACT: JOE INGEGNERI (018-862328 b/h, 743 3710 a/h) or LEO MAYER (708 5742 a/h)
by Thursday / Friday before.

NIGHT DIVES: (tides & weather depending)

WEDNESDAY NIGHT BOAT DIVE

CONTACT B.J. on 709 5535
by Monday / Tuesday before.

Or maybe a Boat Dive on
Max Western's Sea Tamer II.

SATURDAY NIGHT BOAT DIVE

CONTACT PETER BOOTH on 529 3818
Wednesday nights between 5.00-7.00 p.m.
or Weeknights around 9.30 p.m.

FRIDAY NIGHT SHORE DIVE

LAST FRIDAY OF EACH MONTH

CONTACT: LEO MAYER (708 5742) by Wednesday/Thursday before.

CLUB BOAT DIVES

SUNDAY AFTER EACH CLUB MEETING

Dive locations advised at Club Meetings.

CONTACT: JOE INGEGNERI (018-862328 b/h, 743 3710 a/h) or LEO MAYER (708 5742 a/h).

DATES:

* 21 NOVEMBER (OSBORNE SHOALS)
(Meeting at Dolans Bay 8.30 a.m.)

* 26 DECEMBER (BARONS HUT)
(Meeting at Dolans Bay - 8.30 a.m.)
* 23 JANUARY, 1994

DAY TRIPS

- * 15 JANUARY, 1994: HALIFAX PARK, NELSON BAY SHORE DIVE.
- * 13 FEBRUARY, 1994: BASS POINT, SHELLHARBOUR: 2 SHORE DIVES + B-B-Q.

CONTACT: JOE INGEGNERI (018-862328 b/h, 743 3710 a/h)
or LEO MAYER (708 5742 a/h)

DIVING WEEKENDS AWAY

1. JERVIS BAY WEEKEND: 13 & 14 NOVEMBER

Staying at Huskisson Caravan Park
and Sea Sports Lodge, Huskisson.

CONTACT: LEO MAYER (708 5742) A.S.A.P.

2. JERVIS BAY WEEKEND: 29 & 30 JANUARY, 1994

3. EDEN WEEKEND: 5 & 6 FEBRUARY, 1994

4. SEALS ROCKS WEEKEND: 9 & 10 APRIL, 1994

5. ULLADULLA WEEKEND: 4 & 5 JUNE, 1994

CONTACT: JOE INGEGNERI (018-862328 b/h, 743 3710 a/h)
or LEO MAYER (708 5742 a/h)

GREAT BARRIER REEF TRIP

LADY ELLIOT ISLAND — 21 - 26 FEBRUARY, 1994
CONTACT: LEO MAYER (708 5742)

SOCIAL EVENTS

CLUB BAR - B - Q 's:

FIRST SATURDAY OF EVERY SECOND MONTH

CHECK WITH:

- JOE (018-862328 b/h, 743 3710 a/h) OR
- LEO MAYER (708 5742 a/h)

Dates:

WHERE EACH B-B-Q IS BEING HELD AT.

* 6 NOVEMBER - Our hosts: Karin Smith/Peter Booth
60 Fontainebleu St, Sans Souci
at 4.00 p.m.

* 5 FEBRUARY

* 2 APRIL

4 - WHEEL - DRIVE WEEKEND:

Sat. & Sun. 27 & 28 NOVEMBER

4-W-D trip to Yerrandari, including Limeburner trail and others.
This was the location of our first 4-W-D trip. Facilities available such as
water & toilets at camp site. Contact Joe if you would like to participate,
even if you don't own a 4-W-D, there are often lots of spare seats.

CONTACT: JOE INGEGNERI (018-862 328 b/h, 743 3710 a/h)

DINNERS

1. FRIDAY 26 NOVEMBER at 7.00 p.m.

DINNER & WINE TASTING AT BANKSTOWN RSL CLUB
\$30.00 PER PERSON (price includes 5 course meal + wines).

2. FRIDAY 18 DECEMBER, at 7.30 p.m.

AT BANKSTOWN MEXICAN RESTAURANT

CONTACT: JOE (018-862328 b/h, 743 3710 a/h)
or TERESE MAYER (227 1677 b/h, 708 5742 a/h)

CHRISTMAS PARTY B - B - Q

SATURDAY 4 DECEMBER
AT GUNNAMATTA PARK, CRONULLA
(at the southern end of Nicholson Street)
4.00 p.m.

Beer, wine & soft drinks (in limited supplies) will be available.

BBQ and Club tarpaulin will be erected

BYO meat, extra drinks, chairs, etc. and lamp if available.

NOVEMBER 1993

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2 Cup Day (Melbourne)	3 *** NBD	4	5	6 SHORE DIVE CLUB B-B-Q (Sans Souci)
7	8	9	10 *** NBD	11	12	13 SHORE DIVE JERVIS BAY *** NBD
14 JERVIS BAY WEEKEND (Huskisson C/Park)	15 CLUB MEETING (Bankstown Sports Club)	16	17 ***NBD	18 WRECK COURSE THEORY (at Joe's)	19	20 SHORE DIVE WRECK COURSE ***NBD
21 CLUB BOAT DIVE WRECK COURSE	22	23	24 *** NBD	25	26 ---- DINNER (RSL Bankstown)	27 SHORE DIVE 4-W-D TRIP *** NBD
28 4-W-D TRIP	29	30				

SOCIAL / DIVING NOTES:

Club B-B-Q: 6 November, 3.00 p.m. at Karin & Peter's: 60 Fountainbleu St, Sans Souci.

Club Meeting: 15 November at Bankstown Sports & Recreation Club.

Jervis Bay Weekend away 13/14 November - Staying at Huskisson Caravan Park.

Contact Joe A.S.A.P. (018-862 328, 743 3710) or Leo Mayer (708 5742) to book your place.

4-W-Drive Weekend to Yerrandari: 27 & 28 November. Contact Joe for details.

Saturday Shore Dives - Contact Joe (018-862 328, 743 3710) or Leo Mayer (708 5742) for details.

*** NBD = Night Boat Dives - Contact B.J. for Wed. (709 5535) or Peter Booth for Sat. (529 3818).

Wreck Course: 18/20/21 November. Check with Joe for details.

Club Boat Dive 21/11/93 - 1 group doing a Wreck Dive. For others there will be a Club Dive on the Osborne Shoals. Contact Joe (018-862 328, 743 3710) or Leo Mayer (708 5742) for details.

Friday 26 November: Bankstown RSL Dinner & Wine Tasting.
OR Bob Talbot (guest at SSI Platinum Pro Presentation).

DECEMBER 1993

SUN	MON	TUE	WED	THU	FRI	SAT
			1 *** NBD	2	3	4 CLUB XMAS PARTY GUNNAMATTA PARK CRONULLA from 4.00 pm
5	6	7	8 *** NBD	9	10	11 SHORE DIVE SHARK POINT CLOVELLY at 9.00 am
12	13	14	15 *** NBD	16	17	18 MEXICAN RESTAURANT BANKSTOWN 7.30 pm
19	20 CLUB MEETING (Bankstown Sports Club)	21	22 *** NBD	23	24	25 MERRY CHRISTMAS Christmas Day
26 CLUB BOAT DIVE (Barons Hut Meet Dolans Bay 8.30 am) Boxing Day (Except S.A.)	27 Public Holiday (To be proclaimed.)	28 Public Holiday (Except Qld. & S.A.) (To be proclaimed.) Proclamation Day (S.A.)	29	30	31 HAPPY NEW YEAR	

SOCIAL / DIVING NOTES:

Club Christmas Party B-B-Q: 4 December. At Gunnamatta Park, Cronulla approx. 4.00 p.m.

Saturday Shore Dives: 11 December - Shark Point, Clovelly 9.00 a.m.

Contact Joe (018-862 328, 743 3710) or Leo Mayer (708 5742) for details.

Club Dinner: 18 December - Mexican Restaurant, Bankstown at 7.30 p.m. Contact Joe if interested.

Club Meeting: 20 December at Bankstown Sports & Recreation Club.

Club Boat Dive 26/12/93. Barons Hut. Meet at Dolans Bay 8.30 a.m. Contact Joe (018-862 328, 743 3710) or Leo Mayer (708 5742) for details.

*** NBD = Night Boat Dives - Contact B.J. for Wed. (709 5535) or Peter Booth for Sat. (529 3818).

25 December: MERRY CHRISTMAS !

31 December: HAPPY NEW YEAR !

SOUTH PACIFIC DIVERS CLUB INC.

P.O. BOX 823,
BANKSTOWN. NSW. 2200

MEMBERSHIP RENEWAL

1994

☐ I WISH TO RENEW MY
MEMBERSHIP FOR ONE YEAR
FOR 1994

☐ I WISH TO RENEW AND
PAY FOR MULTIPLE YEAR
MEMBERSHIP (i.e. 5 years)
(Pay for 4 years & get 1 year
for free).

NAME:

FAMILIES:

Names of family members if included in membership:

..... Diver / Non Diver
..... Diver / Non Diver
..... Diver / Non Diver
..... Diver / Non Diver

ADDRESS:

.....

Suburb: Post Code:

TELEPHONE: (Home) (Work)

CERTIFICATION NUMBER:

CERTIFYING ORGANISATION:

☐

SINGLE: \$15.00

☐

FAMILY: \$20.00

☐

SINGLE (5 YEARS): \$60.00

☐

FAMILY (FOR 5 YEARS): \$80.00

(Pay for 4 yrs & get 1 yr free)

(Pay for 4 yrs & get 1 yr free)

ENCLOSED / ATTACHED IS A CHEQUE / CASH
FOR THE ABOVE AMOUNT

SIGNED:

DATED:

SOUTH PACIFIC DIVERS CLUB INC.

P.O. BOX 823,
BANKSTOWN. NSW. 2200

APPLICATION FOR MEMBERSHIP

☐ I WISH TO APPLY FOR
MEMBERSHIP FOR
ONE (1) YEAR

☐ I WISH TO APPLY FOR
MULTIPLE YEAR
MEMBERSHIP (i.e. 5 years)
(Pay for 4 years & get 1 year for free).

NAME:

FAMILIES: Names of family members if included in membership:
..... Diver / Non Diver
..... Diver / Non Diver
..... Diver / Non Diver

ADDRESS:
.....
Suburb: Post Code:

TELEPHONE: (Home) (Work)

DIVING CERTIFICATIONS HELD:

(Please circle relevant group): CMAS FAUI NAUI PADI SSI

CERTIFICATION NUMBER:

SPECIALITY OR ADVANCED CERTIFICATIONS:

(Please list any advanced or speciality course that you have been certified for):
.....

INSTRUCTOR RATINGS: (Please list diving related instructor ratings)
.....

CURRENT MEMBERSHIP FEES:

PAID / ATTACHED

☐ SINGLE: \$15.00

☐ FAMILY: \$20.00

☐ SINGLE (5 YEARS): \$60.00

☐ FAMILY (FOR 5 YEARS): \$80.00

(Pay for 4 years & get 1 year for free)

DIVING MEMBERSHIP APPLICATION:

I, hereby apply to join South Pacific Divers Club Inc. I understand the Club is non profit, non affiliated with any training organisation and is for certified divers. South Pacific Divers Club Inc. does not offer instruction, advice or supervise its members' dives. It is a condition of Club membership that members exercise their own judgement in accordance with their training in deciding whether and/or how to participate in any particular dive, the technique used, or choice of equipment and that any clarification in regard to these matters should be referred to a qualified instructor or my certifying agency. I have read the above conditions and accept same as a condition of membership.

SIGNED:

DATED:



BOAT OWNERS HOT LINE



If you're interested in a dive, why not call any of the Club's boat owners. Club members with boats usually go out most weekends (weather/tides depending), so why not give them a call. This way, you won't miss out on your next dive. (Contributions towards fuel are appreciated).

Telephone No's:

JOHN BEDDIE	603 7584 (H), (046) 201 746 (W)
B.J.	709 5535 (H).
PETER BOOTH	529 3818 (H).
PETER JERMYN	708 2309 (H).
MARTIN KANDILAS	725 7808 (H & W).
RICK LATIMER	645 4405 (H), (018) 647 329, (042) 615 631 (W).
BOB MAY	(045) 791 053 (H), (045) 781 177 (W).
LEO MAYER	708 5742 (H).
RON MINES	602 9851 (H), 602 3544 (W).
BOB NICKLING	645 2315 (H), 648 3442 (W).
ROBERT RUBESA	740 6571 (H), 695 2063 (W).
MAX WESTERN, SEA TAMER II	567 2658 (H), 018-280 791 (W).

DIAL A DIVE BUDDY

HAVE YOU FELT LIKE GOING FOR A DIVE
BUT HAVEN'T HAD A DIVE BUDDY HANDY ?

WHY NOT LEAVE YOUR NAME AND DETAILS WITH JOE,
CLUB DIVE CO-ORDINATOR, AND HE CAN PUT YOU IN
TOUCH WITH OTHER CLUB MEMBERS WHO ARE LOOKING
FOR A DIVE BUDDY.

CALL JOE ON 018-862 328 (W) or 743 3710 (H).



DATES FOR FUTURE CLUB MEETINGS

15 / 11 / 93
 20 / 12 / 93 (Informal)
 17 / 1 / 94
 21 / 2 / 94

Club meetings are held every third Monday of each month
 at the Bankstown Sports Club,
 Greenfield Parade, Bankstown
 at 8.00 p.m.

Come early and enjoy a meal at the bistro.

The meetings are usually in the Emile McDonald Function Room.
 (Please check at Reception if function room has changed).

COMMITTEE MEMBERS

POSITION		HOME PHONE NO.	WORK PHONE NO.
PRESIDENT:	LEO BERGAGNIN	517 2853	557 5477 (018) 419 457
TREASURER:	LEO MAYER	708 5742	---
SECRETARY:	TERESE MAYER	708 5742	227 1677
DIVE ORGANISER / SOCIAL ORGANISER:	JOE INGEGNERI	(018) 862 328 or 743 3710	286 4000
PHOTOGRAPHIC OFFICER:	PAUL WILDISH	567 1334	668 9211
PUBLICITY OFFICER:	MICHAEL McFADYEN	558 8181	585 6454

ALL CORRESPONDENCE SHOULD BE DIRECTED TO:



**SOUTH PACIFIC DIVERS CLUB
 P.O. BOX 823
 BANKSTOWN NSW 2200**



CLUB CHRISTMAS PARTY
B - B - Q

DATE: Saturday 4th December

PLACE: Gunnamatta Park
Nicholson Street, Cronulla
(at the southern end)

TIME: 4.00 p.m.

**THERE WILL ALSO BE A DRAW
FOR THE "LUCKY DOOR PRIZE"
OF A CHRISTMAS HAMPER**

- BEER / WINE & SOFT DRINKS (limited supplies only) will be provided.
- But please bring BBQ meat, your preferred beer, soft drinks and salads, etc. *(and camping light - if you have one).*
- The Club's BBQ and tarpaulin will be erected.
- Dress casual and don't forget a chair, swimmers & towel.

So we have an idea of numbers please contact:

Joe Ingegneri (Social/Dive Co-ordinator)

on (018) 862 328 (w) or 743 3710 (h).



GREAT BARRIER REEF HOLIDAY

LADY ELLIOT ISLAND

(off Bundaberg, Queensland)

FEBRUARY 1994: FREE SHORE DIVING on LADY ELLIOT ISLAND

**** FROM ONLY \$555 PER PERSON ** SPECIAL PRICE FOR 6 DAYS / 5 NITES**

GROUP BOOKING TO LADY ELLIOT ISLAND FOR 21 – 26 FEBRUARY, 1994.

AIRLINE COSTS SYDNEY / BRISBANE / BUNDABERG ARE \$342 (approx) P/P RETURN.

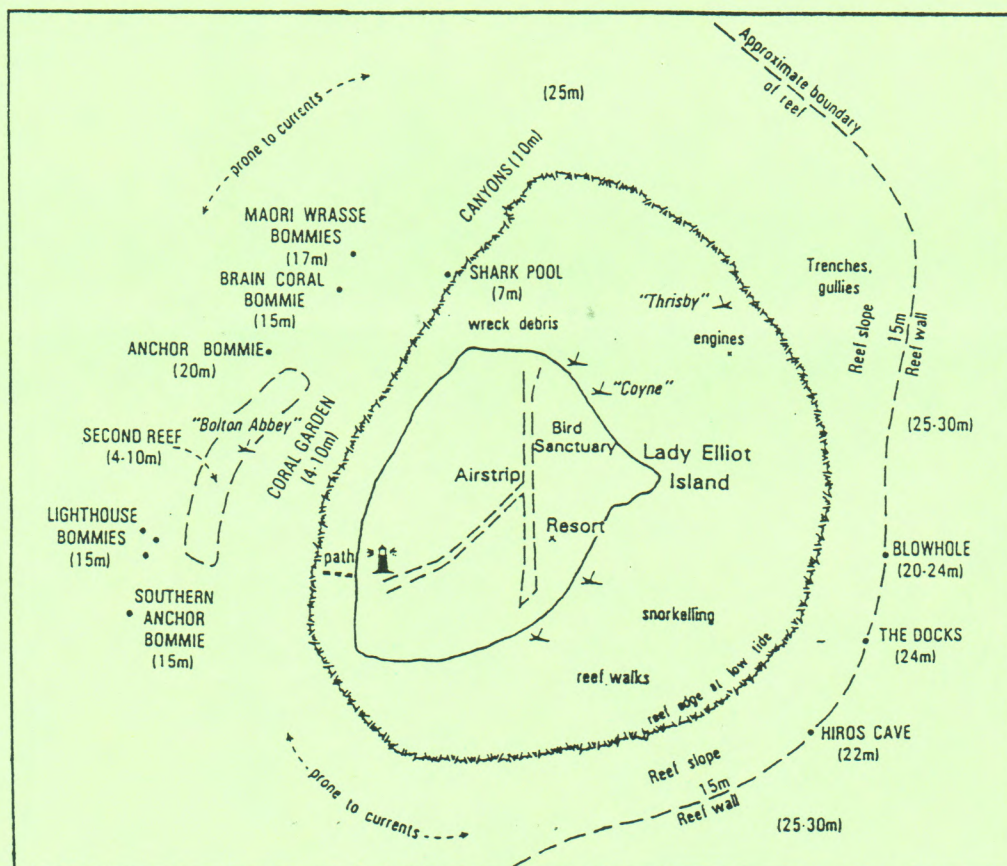
\$555 includes return scenic flight from Bundaberg, tent/cabin accommodation and all meals and 2 free shores a day.

Lady Elliot Island is probably one of the most 'untouched' coral reefs in Queensland and has spectacular dive sites. Dive with Manta Rays and turtles, see the island's rich variety of coral gardens, underwater topography and seemingly endless fish life. Shore dives are straight onto the Great Barrier Reef where you can discover sites like the Canyons, the Anchor Bommie, Pirates Cave, Gropers Grovel, Heroes Cave, The Lighthouse Bommie, Mystery Reef and Sunset Drift. The dates picked has co-incided with high tides for Night Diving.

Club Member, LEO MAYER (telephone (02) 708 5742 a/h), is co-ordinating numbers.

If you are interested, please contact Leo. Brochures and further information are available at the monthly meetings or Leo can mail these to you if required.

LADY ELLIOT ISLAND DIVE SITES



SOUTH PACIFIC DIVERS CLASSIFIEDS

CLUB SHIRTS (WITH COLLAR) AND EMBROIDED WITH CLUB LOGO

WE NOW HAVE COLLARED SHIRTS WITH
S-P-D's CLUB LOGO IN A VARIETY OF
COLOURS: BLACK, WHITE, ~~LIGHT~~ BLUE & PINK.
PLEASE PLACE YOUR ORDERS WITH
LEO BERGAGNIN. PRICE IS \$35.00.
CLUB CAPS AND SEW-ON DECALS ARE ALSO AVAILABLE.

ROBERT BALLARD's BOOK "GHOST SHIPS OF GUADECANAL" AT 25% DISCOUNT.

IF YOU WOULD LIKE TO BUY THIS BOOK
CONTACT MARTIN KANDILAS (ph: 725 7808).

PENNY & DOUG SMITH's ADDRESS IN FIJI

IF YOU FEEL LIKE WRITING A LINE TO
PENNY & DOUG, THEIR ADDRESS IS:

PENNY & DOUG SMITH
C/- CHIEF ENGINEER
SHANGRI-LA's FIJIAN RESORT
YANUCA ISLAND, PMB NAP 0353
NADI INTERNATIONAL AIRPORT
FIJI

DIVE GEAR FOR SALE (CONTACT PETER AFTER 22ND NOVEMBER ON PH: 708 2309)

*Peter Jermyn has the following diving equipment
for sale after 22nd November.*

Wetsuits:

- Moray Challenger Size 4 Wetsuit (second hand) 5 mm.
Long John & jacket with attached hood: \$POA.
- As New: Moray Pro Size 5 Wetsuit. 5 mm.
Black. \$550 neg.
- Moray 175 Semi Dry. Size: Large. \$550 neg.

Tanks:

- Sea Hornet 95 cf. alloy scuba tanks X 6.
\$280 neg. with boot & mesh included.
All less than 1 year old.

PETER JERMYN's DIVE GEAR (CONTINUED)

(CONTACT PETER AFTER 22ND NOVEMBER
ON TELEPHONE: 708 2309)

VIDEO EQUIPMENT

- Sony V700 HI-8 Video Camera.
18 months old.
- With a Sony 75 mtr. housing to suit.
- Plus accessories.
- \$POA.

UNDERWATER CAMERA EQUIPMENT

- Sea Tite Housing with a Nikon F3. \$POA.
- Sea Tite Strobe plus Slave. Dual power.
Price Negotiable. May sell as individual items.
- Nikonos II with compatible strobe fittings
(could be used as spare).

LENSES

- 55 mm. Macro Vivitar Lens.
- 24 mm. Sigma Lens.
- 35 mm. Nikonos.
- 28 mm. Nikonos with Viewfinder.

ACCESSORIES

- Extension ring & dome port to suit lenses.
- Compatible fittings to Sea Tite housing.
- Sekonic Light Meter.
- Extension arms & accessories.
- Nikonos spares.
- Cast base plate.
- 3 to 1 macro tube.

JERVIS BAY NEEDS YOUR HELP NOW!

JERVIS BAY is currently being considered by the Defence Department as the possible location for the relocation of the Navy's armaments storage facilities, currently located at Newington, in Sydney.

Jervis Bay is an area of great beauty and tranquility. It has won International recognition for its environmental attributes. Jervis Bay was recently listed on the National Estate List and the NSW Government will be shortly proceeding with the creation of a terrestrial National Park and Marine Reserve to protect Jervis Bay as an area of great environmental significance. Jervis Bay, a pristine environment, is the States Number One Tourist Destination. Its preservation is vital to the long term health of the local economy. If the East Coast Ammunition Complex (ECAC) were to proceed, Jervis Bay would be irreparably damaged. We cannot afford to lose Jervis Bay.

THE PROPOSAL

The ECAC proposal involves two major developments to replace the 270 hectare Newington site.

1. An armaments depot of some 2000 hectares would be located in the Currambene State Forest at the Western part of the Bay.

2. An armaments wharf, to be located at Cabbage Tree Point, approx 22 km from the armaments depot.

The Defence Department's original plan for Jervis Bay incorporated the relocation of the East Coast Fleet. However in 1985, the Federal Labour Government announced that the planned East Coast Fleet move was abandoned. They cited the environmental destruction as the reason for the abandonment. Despite this announcement, and the increasing awareness of the value of Jervis Bay, the Defence Department still has its sights on Jervis Bay.

They have already announced the establishment of a Nuclear Ships Mooring in Jervis Bay, while they are currently negotiating for the acquisition of additional land and buildings on Bee-croft Peninsula.

Once the Navy succeeds with the Armaments Depot and wharf at Jervis Bay, pressure will eventually see the Fleet Base proposal re-appearing, followed inevitably by other industrialisation.

ENVIRONMENTAL COSTS

The algal bloom at the end of 192 demonstrated the sensitivity of Jervis Bay to the impact of developments. The algal bloom, attributed to a combination of factors such as sewerage discharges into the bay and run-off from developed areas threatened to devastate the marine ecology of the Bay.

Further pressure will be added by the siting of a munitions depot within the catchment. A loading depot at Cabbage Tree Point will require a significant amount of disturbance, adding to which will be the constant threat of oil or chemical spillages in an area which is the ecological heartland of Jervis Bay.

The Fleet Relocation Study points out that the bed of the Bay surrounding Cabbage Tree Point will be dredged to 16m to cater for ocean going vessels, not only warships but also commercial shipping. These vessels will require tugs, cranes, repair facilities, oil storage facilities, access roads, accommodation.

This proposal is not a benign one. It will have a far reaching effect. It is a proposal that has the potential to turn Jervis Bay into just another industrial area, undoing the efforts of this community in seeking the preservation of this magnificent area.

HOW WILL IT AFFECT YOU AS A DIVER

As divers, this proposal will have a dramatic effect on all of us.

Access to Jervis Bay and its diving locations will be restricted whilst the munitions wharf is in use. This will be for up to 180 days per year, i.e six months of every year a large proportion of Jervis Bay will be closed to the public.

Jervis Bay, known nationally and internationally, will change forever and will cease to be the diving paradise that it is known to be. Australia will have lost a diving treasure forever.

The Defence Department's proposal will lead to further industrialisation of the Bay. In effect, it will mark the beginning of the end for Jervis Bay.

Already the Defence Department has earmarked Bowen Island — well known as a Fairy Penguin colony — as a docking area for visiting nuclear ships. Shoalhaven City Council has been given notice to prepare emergency plans for the event of a nuclear accident.

If we don't act now and unite in the fight for the survival and protection of Jervis Bay, we will lose it. Irrevocably, irreparably, forever!

We need your help now. Write to the Prime Minister, Paul Keating; Environment Minister, Ros Kelly; NSW Premier, John Fahey; NSW Environment Minister, Chris Harcher; to let them know that you oppose the ECAC proposal for Jervis Bay and that you support all conservation proposals for Jervis Bay.

You can give further assistance by joining the Jervis Bay Protection Committee, or by sending donations to help us fund the campaign for the survival to Jervis Bay.

Contact the Jervis Bay Protection Committee at PO Box 732, Nowra 2541.



**MINUTES OF MEETING HELD
ON 18 OCTOBER, 1993
AT BANKSTOWN SPORTS CLUB**

Meeting was opened by Leo Bergagnin (Club President) at 8.00 p.m.

Leo then welcomed the Club's new members and those who have renewed their memberships:

New: John Szwecow, Paul and Jeannine Aram, Brent Hedges, Roslyn Phillips and David Bilbow.

Renewed: Susan Armstrong (5 years) and also Kay and Wayne Avnell.

APOLOGIES: Joe Ingegneri, John Beddie, Peter Jermyn, Ilona Kandilas, Michael Latimer, Ron and Jenny Mines.

VISITORS: John Sumner, Lyn Newland, Susan Webb, Grahame Wright, Tim Cashman, Ann Lohsy and Rod Attenborough (from Kodak).

MINUTES FROM MEETING 21 SEPTEMBER, 1993:

The Minutes were taken as read. All members have read minutes in last newsletter. Accepted by Robyn Hewitt, Seconded by Rick Latimer.

INCOMING CORRESPONDENCE:

Ryde Underwater Club "Surface Interval", Uni. of NSW "Devious Undercurrents", UTS "No Douts", Underwater Research Group "Bulletin", Brisbane Waters Aqualung Club "Demand Valve Vibes", Sydney University U/W Club, Harry M. Miller's "Read My Lips".

OUTGOING CORRESPONDENCE:

Terese Mayer has sent correspondence and newsletters to new members.

TREASURER'S REPORT:

Leo Mayer gave the Treasurer's Report. Accepted by Rick Latimer, Seconded by Brian Colwell.

PHOTOGRAPHIC OFFICER'S REPORT:

Paul Wildish spoke briefly on the night's 'Masters' debate and voting. Slips of paper were then passed out to those wishing to talk on the matter. These were then returned to the Club President so that an orderly debate could be held later.

Paul said that the Committee was currently having negotiations with Barry Andrewartha and Cathie Holloway regarding the publication of the competition results and winning entries. No decision has been taken as yet.

Paul has been soliciting views from several people in the diving industry regarding possible ways to improve the fairness of the competition and the presentation and the response so far has been very encouraging. People approached so far include Glen Percy, Max Gleeson, Kevin Deakin, Tom Byron, Mark Spencer, Becca Saunders and Cathie Holloway.

Paul has held discussions with people who are willing to come and address the Club's monthly meetings. These include Tom Byron talking about the history of the Club and a history of diving and also talking on his revised NSW dive sites books. Becca Saunders has offered to do a slide show in the new year. Max Gleeson has proposed to give a talk about researching his books. Maxwell Optics have also been approached to show us their underwater cameras.

Paul mentioned that alternate venues for the competition presentation night were being looked at due to rising costs.

DIVE REPORTS BY MEMBERS:

Michael McFadyen, John Fowden, Sue Webb and Les Catison had a memorable dive at Osborne Shoals (*as distorted by the St. George Leader newspaper*). By the time they surfaced from their dive "a 35 knot wind had blown up with high seas breaking over the surface". The boat had slipped its anchor and was missing and they were forced to swim for shore. Luckily they were eventually picked up and their boat was saved.

Michael McF. has also just come back from diving New Caledonia and Noumea's Isle of Pines and the northern island. Michael had 2 good dives at Noumea and saw about a dozen sharks, manta rays and also sea snakes at Emadee Island. He had 3 good dives at Isle of Pines and dived a freshwater cave. North of main island Michael dived good reef but the resort is expensive (\$8 for a beer !), but it's excellent diving, accommodation, etc.

Scott Leimroth told of a recent dive with Martin on the Tuggerah. There was also a fishing boat and a charter boat anchored on the wreck. It was murky on top but O.K. once they got down. During the dive they noticed the interesting anchor that belonged to the fishing boat. It's anchor's prongs were shaped into a large arrow head ! Back on the surface Martin had to free Cape Bailey's fouled anchor line because of the same fishing boat.

Robyn Hewitt had a recent dive trip up at Tweed Heads and saw 3 mantas and small turtles.

Leo Bergagnin had a dive with Max Weston at Barrons Hut on the Saturday before.

DIVE / SOCIAL ORGANISER'S REPORT:

As Joe was away on his Great Barrier Reef holiday, Leo Mayer gave the Dive/Social Report.

- Saturday Morning Shore Dives
Friday Night Dives
Club Boat Dives:

Leo Mayer spoke on the Club's recent night dive and shore dive at Oak Park, last month's Club Boat Dive on the Dee Why Wide. It was a successful day and we had 3 club boats and about 12 divers who all had a good dive. Afterwards the group stopped off at Watsons Bay for chowder soup at Doyles and a couple of beers at the Watsons Bay Pub.

- **Jervis Bay Weekend** is for 13 / 14 November and staying at the Huskisson Caravan Park (*the one nearest to the Pub*). Boat owners and divers who are interested in going should contact Joe (on 018-862 328 b/h, 743 3710 a/h) or Leo Mayer (on 708 5742) A.S.A.P. We have to make a firm booking soon. (Bookings are for the Friday/Saturday nights).

Prices for accommodation are:

- Couples in **CABINS** are \$50.00 per night (i.e. \$25 each). If 5 people share a **CABIN** its \$62.00 (i.e. \$12.40 p/p). Each Cabin has shower/toilet/kitchen facilities.
- **CARAVANS** are \$42.00 (for 2 people), or
- **TENT SITES** are \$13.00 a night.
- **Club B-B-Q's:** The next B-B-Q is for **SATURDAY 6 NOVEMBER AT 4.00 p.m.** [Our hosts will be Karin Smith and Peter Booth: 60 Fountainbleu St, Sans Souci.
- Christmas Party B-B-Q** is on Saturday 4 December at Gunnamatta Park, Cronulla.
- **4-W-Drive Weekend** to Yerrandari. Saturday & Sunday 27 and 28 November.
If interested, call Joe for details on 018-862 328 b/h, 743 3710 a/h.

DIVE / SOCIAL ORGANISER'S REPORT:

- **Lady Elliot Island:** February 1994. 6 Days, 5 Nights.

Firm bookings are being made next week, probably for the last week of February.

Please contact Leo Mayer A.S.A.P. on **708 5742** for further information / brochures.

Cost is \$555.00 for the island's "free diving" package in February staying in the Tent/Cabin accommodation. This price includes 2 FREE shore dives per day, all food and return flight from Bundaberg. Children under 7 are half price.

- **Dinner and Wine Tasting at Bankstown RSL Club, 26 November.**

Call Joe (on 018-862 328 b/h, 743 3710 a/h.) or Leo Mayer (on 708 5742) for information.

GENERAL BUSINESS:

Wreck Course

- BJ asked whether the Club had considered using a surveyed vessel for the wreck diving course, or to look into using one for future courses. Leo B. said this may be looked for courses in 1994.
- Martin Kandilas requested the following point be recorded in Club Minutes: " He was displeased at being advised at the last minute that a Club member had changed the venue for the theory part of the first wreck course. Martin said that he had offered his house as a venue at the August meeting and this had been confirmed in Club Minutes at the September meeting. Martin asked that if similar decisions are made in the future (he hopes not), then could the venue provider be the first to know of changes, rather than the last? Martin said that these types of late changes can make people angry and somewhat reluctant to come forward in the future with offers of assistance with these courses. " Leo Bergagnin said that this would not be the case for any future courses organised by the new Committee.

Future Events:

- Leo Bergagnin mentioned:
 - The **Rob Palmer Cave Diving Lecture Night** at Sydney University on Tuesday 9 November, 1993 Tickets (\$10) for the night are available from IANTD Australasia (telephone 569 5588).
 - **Bob Talbot**, internationally famous underwater and wildlife cinematographer/photographer is the special guest on **Friday 26 November** at the SSI Platinum Pro Presentation night (\$10.00 a ticket).
- Sue Sainsbury of Ship Rock Dive Shop is hosting a Treasure Hunt on Sunday 14 November.
- Gordon's Bay Scuba Diving Club are rebuilding the dive trail chain. All divers are welcome to assist in the rebuild and photographers documenting the event are welcome. Contact club member Gordon McDonald on **519 7850 (a/h)** for further information.

Other Matters Raised:

- Rick Latimer spoke on the recent Robert Ballard talk and his book "Ghost Ships of Guadecanal". Some books were sold at the Club meeting.
- Leo Bergagnin mentioned that there were new Club shirts, caps, etc. for sale.
- Michael McFadyen brought up the point that the proposed sand mining by Metromix off Bondi Beach had been mentioned on the news that night. Apparently the Environmental Impact Statement will be out shortly. The proposed sand mining area is from Cape Banks down to Bate Bay and Providential Head (Jibbon) to near where the Tuggerah is.

Bob Nickling said that he was an employee of the dredging company. The sand dredge to be used was not like normal dredges. He said that "the company had not rushed in blindly to mine sand off the coast". Bob could probably arrange for someone to come and give a talk at the next meeting.

'MASTERS' DEBATE

Leo Bergagnin then opened debate on the 'Masters' issue.

- Martin presented a written submission from Mark and Cassie Welsh saying that they supported the 'Masters' as a method of stimulating interest in the Open section of the competition, with the concept of a 'Masters' where qualifying requirements are multiple placings or a first place in the Open event.
- Rick Latimer was then called upon to talk. Rick said that he's not a photographer but did have knowledge of the photo comp., that there were points for and against. Problems arose because there was suggestions that somehow we should break the deadlock situation that occurs, e.g. Gary Bell's multiple wins. That the Club should turn around and stop that situation occurring. If someone wins the Open then they should then move into the 'Masters' section. That way, clearing that group at the top. Rick said that in theory this was not a bad idea.

In practical terms, you are still making a 'Master' the Photographer of the Year, because he is a 'Master'. This doesn't resolve the problems. It just shifts the emphasis from one to the other.

The competition is for the Australasian Underwater Photographer of the Year. If there was a 'Masters' group created and someone did then win the 'Open' section, it would be because all the good competition had been removed anyway.

Rick now believes that a 'Masters' is not that good an idea. If someone wins for 3 times then they should be asked to have a break and not to enter next time. Brian Colwell said that this had been suggested in the past to people like Gary Bell.

- Martin Kandilas then gave his views against a 'Masters'. For a time he had been all for a 'Masters' section but had since changed his mind and is now against having this section created.

Martin said that this issue was first suggested about 3 years ago. Martin then gave an analogy - that of the Olympic Games, for example Carl Lewis. If Carl Lewis was not running in a race and you then won you would feel cheated, that you had competed but there had been no competition.

If someone wins as Australasian^{U/W} Photographer of the Year but all competition had been removed beforehand, then this takes the prestige away from the competition. It would then be a non event if we do have a 'Masters'.

The Rules were then mentioned. That a winner automatically goes into the next year's 'Open'. Place getters can get into the 'Novice' section again. Maybe the rules should be modified.

- Scott Leimroth said that he was not a photographer but his friends were. He felt that the point of the competition was to beat people like Michael Cufer. This stimulates people to want to enter the competition.
- Leo Bergagnin then said that the competition rules were being reworded and refined so that some shots (e.g. "penthouse pets" which had previously been entered and these were not true to life underwater shots).
- BJ then spoke and said that he was all for a 'Masters'. That at the moment the competition was discouraging a lot of entrants. If someone has already entered once or twice then they don't bother entering again. Up and coming photographers are being discouraged. At present the competition structure is not promoting underwater photography. BJ feels we must attract more junior photographers.

With a 'Masters' section then this group can compete with "the best of the best". People competing in a 'Masters' could then compete for a plaque.

'MASTERS' DEBATE

- In general discussion it was then brought up that to segregate winners would detract from the "Australasian Underwater Photographer of the Year" by putting in a separate category. It has happened that the same people continue to win the competition, but entrants to the competition take their chances on winning. They put themselves up against the best in the 'Open'.
- Brian Colwell then spoke on the subject. Brian said it is discouraging when people like Gary Bell win for 3 times running. To encourage photographers there had previously been a 'Juniors' category but this was phased out due to lack of interest. Then with the 'Open' section people feel they can never beat the same guys that are at the top. The 'Novice' section does get a lot of first time entrants, but the same argument arises, that they cannot beat the same guys that consistently are at the top of this category.

An extra incentive was added to the competition: that of Highest Scoring Slide - one in the 'Open' and one in the 'Novice' sections. If someone had one really good slide then this would bring them up.

Then there has been the two Encouragement Awards, one in the "Open" and the other in the 'Novice' sections. The winner of this category was worked out by the Photography Officer and the Club President and was awarded to the contestant who shows most promise. If a photographer can't get to the tropics to take the best photos then this award encourages those who show promise with their photos that are taken in local waters.

Brian does not agree to segregate the competition. He doesn't agree in penalising someone like Andy Belcher. If you look at someone like Michael Cufer who's been competing for 6 years and has crept up the winning ladder. You "wear them down through attrition". People who enter every time get serious and want to win the competition and they prove their point in the end. It's good to watch people progress over the years. Good competition is healthy at the top.

- Michael Cufer then spoke as a competitor. He said that either way the competition was set up it's still going to be good. You will still be competing against the same guys and still have competition at the top end. Michael said it's been a good feeling for him to wear down the competition.
- Bob Nickling then asked Rick Latimer what effect a "Masters" section would have on the sponsors. Rick said a decision on this does not hinge on the sponsors. The sponsors are not a problem, it's just a shifting of emphasis and you wouldn't lose any sponsorship.

A vote was then taken. A clear majority of club members voted NOT TO HAVE A 'MASTERS' SECTION in next year's competition. No further debate shall be entered into on this issue.

RAFFLE:

First prize of a trip on Max Western's Sea Tamer II and Kodak film was won by John Fowden. Thanks to Max for the prize. Contact numbers for bookings on the Sea Tamer II are **567 2658** or **018 280 791** for the **B°AT PHONE**.

Second prize of 3 rolls of Kodak film was won by Robyn Hewitt. Third prize of more Kodak film was won by someone, but I've forgotten their name !

MEETING CLOSED at around 9.20 p.m.

GUEST SPEAKER:

Rod Attenborough from Kodak then gave us a comprehensive demonstration of the new Visual C.D. Disk Player (5 discs). Most people at the meeting were suitably impressed with its capabilities.

Kodak have also generously donated rolls of film for our Club raffles.

PHOTOGRAPHIC TIP FOR THE MONTH

Contribution from Martin Kandilas, Photographic Officer 1990 - 1991

I'm sure at one time or another most underwater photographers have held a slide show and were showing a fish or some creature nicely illuminated by flash, with a totally black background. Someone in the audience (probably a non diver) has then said something like "gee that night diving must be scary!"

And I'm equally as sure that the photographer at one time or another has thought "*bloody hell, that wasn't a night dive, it was in broad daylight !*" As good old Professor Julius Sumner-Miller used to say, "Why is it so ?" Well, I will try to explain in a non technical way.

Firstly, the true reason the slide had a black background (presuming it actually was taken during the day) was because insufficient light reached the film. The lens had been set at an aperture too high to allow the ambient light to make an impression on the film, and the flash had overpowered whatever light remained.

Most of us fall into the trap of first looking at the flash - to - subject distance (say 3 feet) then consulting the flash guide, which may indicate f11, for example. We then set the camera at f 11 and click, we take the photograph. The subject is correctly exposed (illuminated) but the background is black. So how do we fix it ? Easy ! But first, you must get a light meter, and secondly, your flash may have to be modified to allow 2 or 3 power settings. If you use an SLR housed camera, it should have an inbuilt light meter.

Take a meter reading, let's say its f 5.6. Look at the subject, let's say its 3 feet away. The flash says f 8. All you need to do is set the aperture at f 5.6, find the closest power setting to match 3 feet distance. If not perfect, you can always hand hold the flash, either closer or further away from the subject to obtain your correct flash - to - subject and of course correct exposure. It's that simple.

If you don't have a meter (and I didn't for years) guess ! Most temperate N.S.W. waters (Sydney anyway) gives a reading of between f 4 and f 8 when viewed horizontally, and about f 5.6 to f 11 when looking towards the surface, using 100 ASA film. Another way of course is to try film with a different ASA/ISO speed. Remember, the faster the film, the more light it lets in. Experiment a bit and you should always have nicely light-balanced photographs, with all the viewing area illuminated by available light and the main subject lit with your strobe.

Bracket your exposures and you are bound to get some good shots. Happy shooting !

NEXT MONTH:

**How to photograph intact portholes, bells and whistles, etc.
(Just kidding)**

MARTIN

MISHAP OF THE MONTH

A certain club member (of a journalistic bent) and a well known ex dive boat operator had to swim for it when they lost their boat while diving the Osborne Shoals.

Their boat was saved just as it was about to ride the waves onto rocks !

The Soft Touch – Another View of Coral

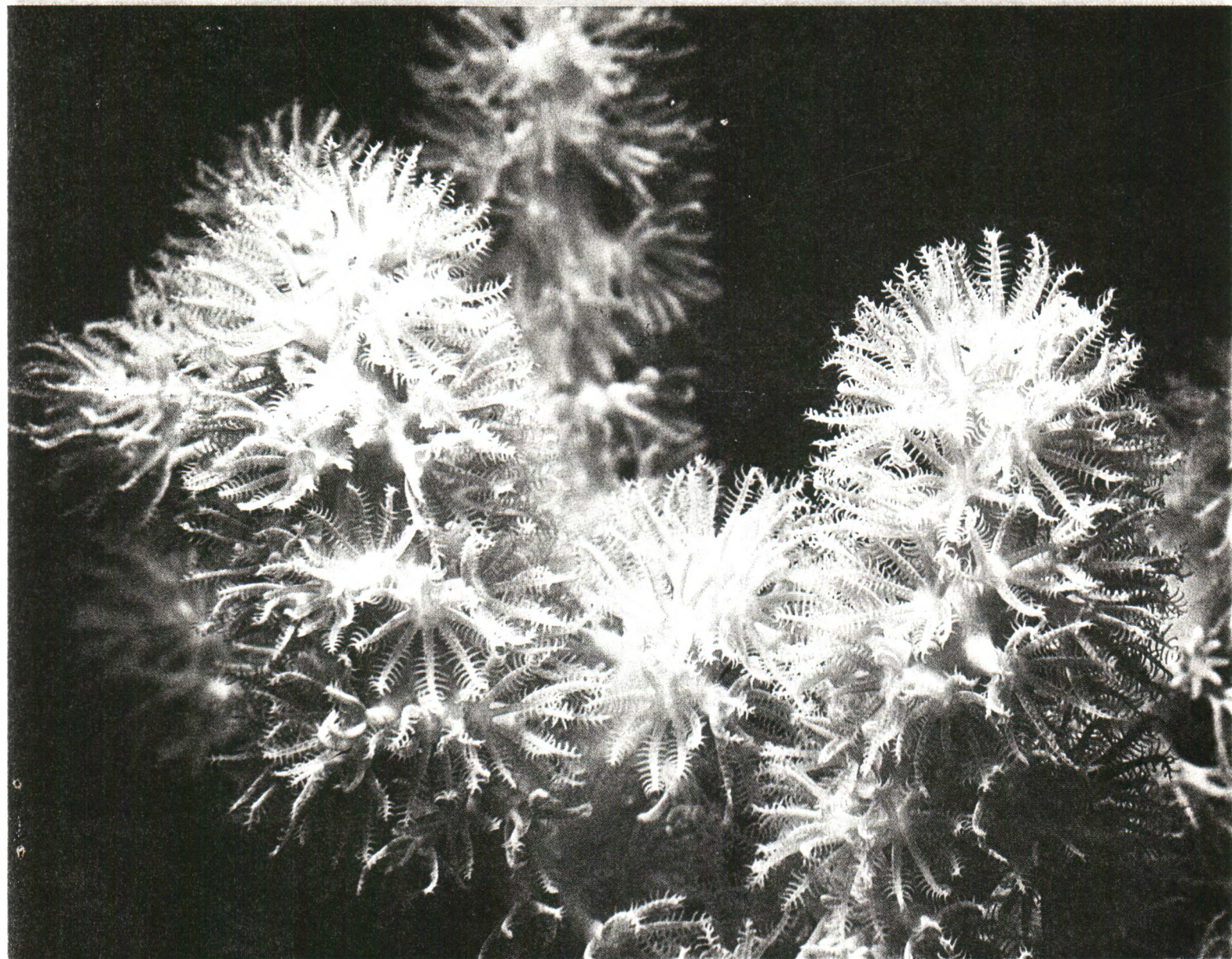
Marine Parks



Great Barrier Reef
Marine Park
Authority



Australian Government
Department of the Environment
and Heritage



Soft corals, such as this *Xenia* sp., lack the rigid limestone skeletons of the hard reef-building corals.

Soft corals

Soft corals are marine animals with soft bodies made up of large numbers of identical polyps connected by fleshy tissue. They lack the rigid limestone skeletons of their more famous relatives, the hard corals, but still occupy an important place among Barrier Reef animals. In some environments, they make up almost half of the living tissue on the reef surface. Although soft corals are animals, they contain small algae within their tissues which are capable of converting the sun's energy into food. The animal and plant cells exist in a co-operative association called a symbiosis. This relationship also exists in hard corals, clams and many other marine organisms.

Hard and soft corals contain large quantities of waxes and fats which are two of the major energy

resources in the ocean. As a result corals are very attractive to fish as a food source. Hard corals are largely protected by their limestone skeletons from all but very specialist feeders like parrotfish. Soft corals by contrast appear defenceless as they sway backwards and forwards under the influence of ocean currents. Yet very few marine animals eat soft corals, for reasons which are not immediately obvious.

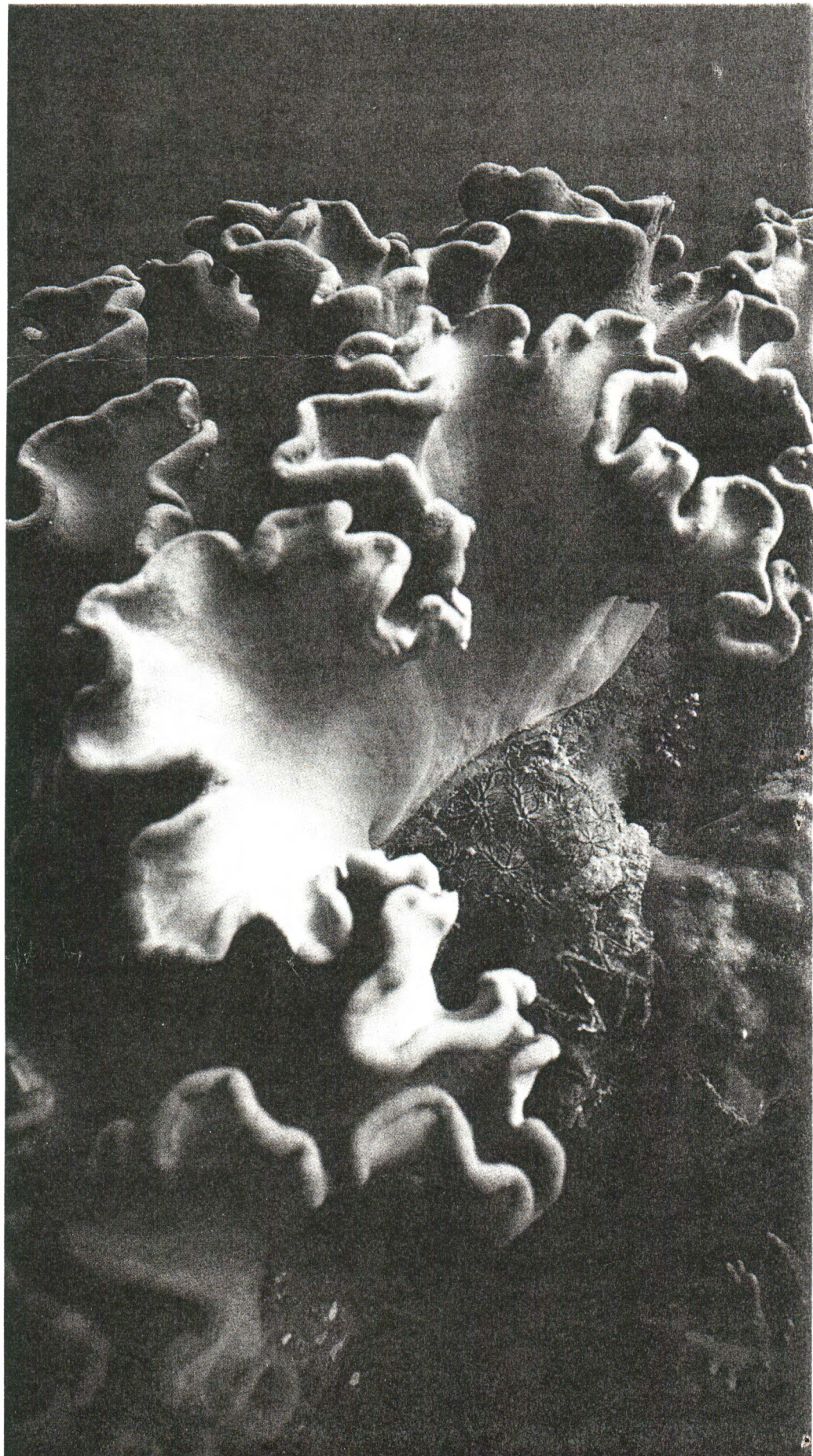


Soft corals, such as this *Anthelia* sp., have eight tentacles armed with stinging cells which paralyse and hold the coral's prey — tiny floating animals such as shrimp.

Chemical analysis of soft corals reveals the presence of large quantities of chemicals called terpenes in their tissues. Similar analysis of hard corals shows no such chemicals. Terpenes also occur in many land plants including gum trees. These chemicals often give rise to the sweet smell of these plants. The perfume of the lemon-scented gum tree is one such example. In soft corals, terpenes make the animal tissues toxic or at least give them such a bad taste that fish do not like them. In a recent study of a large number of soft corals, we found that about half were toxic to fish. In addition, many of the non-toxic corals were distasteful to fish. A third group had small sharp needles of limestone (called spicules) protecting the polyps. Soft corals thus survive in a sea full of predators either by chemical defence or by the presence of small thorn-like spicules which surround the polyps.

Most patrons of shell shops have seen examples of the 'egg cowrie' (*Ovula ovum*). This mollusc eats mainly soft corals and seems to thrive on a diet of particularly toxic soft corals. We were lucky enough to be able to collect the faeces from the molluscs which had been feeding on a large soft coral for some time. Imagine our surprise when we found that the chemical present in the faeces was different from the toxic chemical in the soft coral. We were able to show that the 'egg cowrie' had changed the toxic chemical which it ate, into a non-toxic chemical in its digestive gland or liver. This probably prevented the mollusc from being poisoned by the soft coral toxin. The crown of thorns starfish also eats soft corals, but generally seems to prefer its hard coral diet for which it is infamous.

This *Sarcophyton* sp. of soft coral contains chemicals called terpenes which make it toxic to many fish which might otherwise eat it.

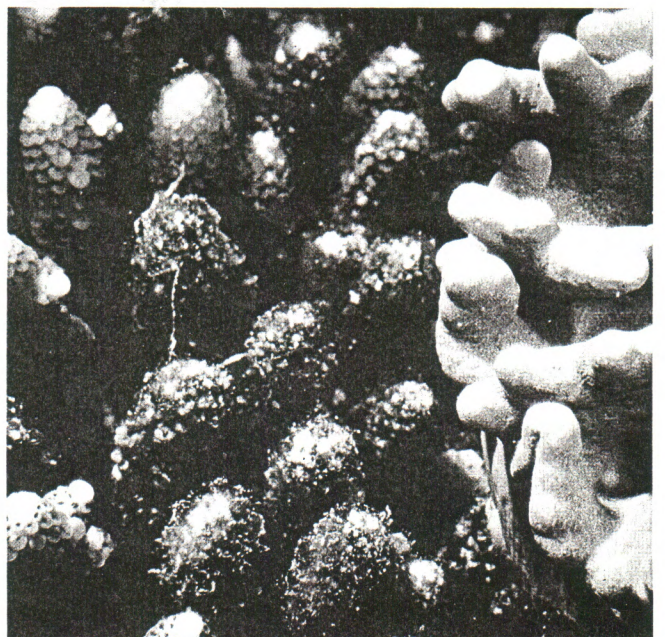




Small sharp needles of limestone protect this soft coral (*Dendronephthya* sp.) from potential predators.



Soft corals are capable of killing nearby hard corals. The white patch on the hard coral is dead.



The hard coral on the right, killed by toxic terpenes released by the soft coral, is soon overgrown with algae.

Chemical Warfare

Although soft corals appear to be exotic, flimsy organisms, recent studies have shown that they are capable of killing nearby hard corals and then overgrowing them. They do this by releasing the same toxic terpenes into the seawater. These chemicals tend to accumulate in nearby hard coral tissue, where they cause growth retardation and eventual death. We have actually trapped the terpenes released from soft corals in the seawater, and used them to kill hard corals.

Chemical Warfare

Soft corals can move across the surface of hard corals. A chance observation led to this interesting discovery. When a soft coral is in contact with living hard coral, the hard coral tries to put up a limestone wall around the soft coral. Because the coral can move, the wall never really stops the soft coral, but a very pretty series of trails are left to show where the soft coral has been.

This ability to move is very important to soft corals. They can move up to a hard coral. If it proves to be a powerful fighter, the soft coral can 'back off'. If it is a poor fighter, the soft coral can kill the hard coral and overgrow it. Hard corals by contrast are trapped by their skeletons.

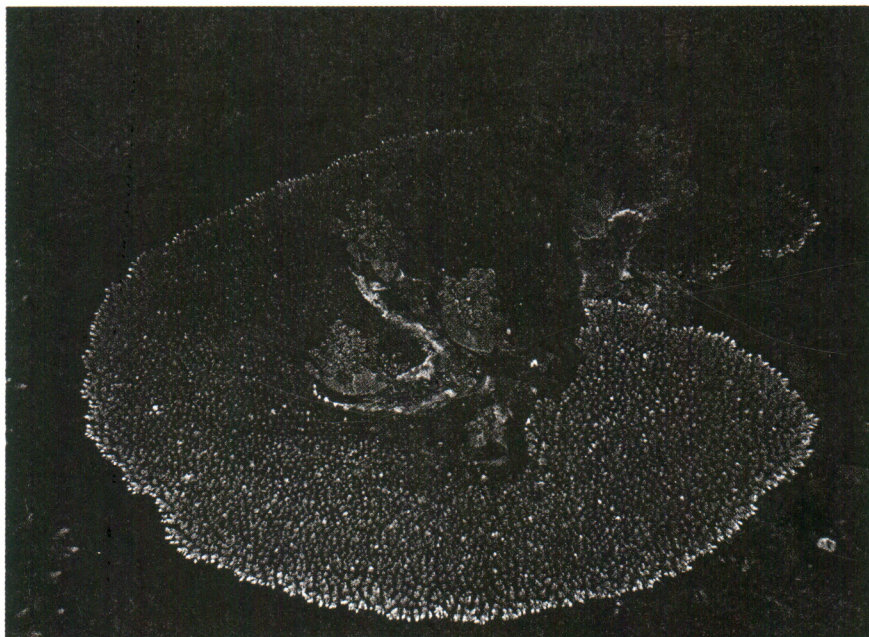
Author

Dr. John Coll is a Reader in Organic Chemistry at James Cook University. Together with his graduate students and Dr. Paul Sammarco, his biological collaborator at the Australian Institute of Marine Science, he has made extensive investigations of the survival strategies of soft corals.

Why Not a Soft Barrier Reef?

Although it appears that soft corals could eventually overgrow the Reef, this has not occurred and probably never will. It seems that soft corals are much shorter lived than hard corals and are subjected to severe damage during storms. The survival strategies discussed in this article are sufficient to ensure that they will continue to offer a soft touch to divers on the Reef and to provide a delicate balance to the rigid architecture of their relatives — the hard corals.

Some mobile soft corals leave 'snail-like' trails as they move across hard corals.



Further information may be obtained from:

Great Barrier Reef Marine Park Authority
PO Box 1379
Townsville, Qld 4810
Telephone (077) 71 2191

Queensland National Parks and Wildlife Service
PO Box 190
North Quay, Qld 4000
Telephone (07) 224 0414

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