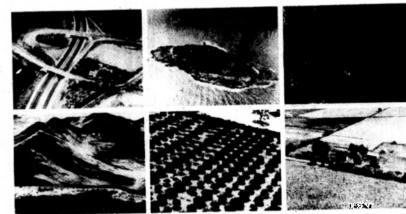


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PLUS SUNDRY STORES STD PHOTOGRAPHS

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Patro & His Excellency, the Governor of Victoria

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President Lieut Cride A. H. Burrows, VRD RANE Secretary: Lieut Crndr O. V. Dimmitt, VRD. RANR, Box 227, Post Offica, Hawthern, Victoria. 3122

Han Secretary: Colonel P. V. D. Fleming, ED, 39 Pinecroft Street, Camp Hill, Queensland, 4152.

As Higher Control Ten Herry Statelon

et Commander J. B. Howte, VRD, RANVR Nes Secretary, Commander D. M. Blake, RD. RANVR, 12 Darmody Street, Westanaura, ACT. 2614

THE NAVY

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## A SUBMARINE DETERRENT FOR THE RAN?

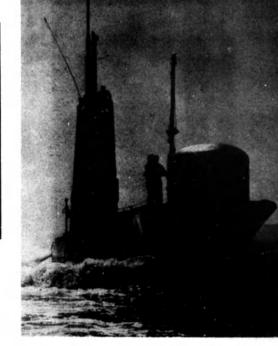
W. Grazebrook, Federal Vice-Preside of the Navy League

A prominent journalist has recently advanced the theory that, on financial grounds, the Navy should abandon its role in the defence of trade and rely instead upon a deterrent force of submarines.

The argument contends that the paratively cheaply - diesel electric Royal Australian Navy should con- submarines are not expensive per struct a force of submarines so copy, although they have their large that it would be able to tactical limitations. paralyse the seaborne trade and/or coastal resources of any potential enemy. In these circumstances, a potential enemy would not dare to attack or bring pressure to bear upon our seaborne trade.

If the journalist's theory were correct, the Navy's strength in defence of trade should be allowed to wither away and financial resources devoted instead to the construction of a large force of submarines. This could be done com-

February/March/April, 1975



### The Oberon class submarine HMAS ONSLOW.

· Confirming the identity of an attacker.

· Any potential enemy being at least as dependent upon trade as is Australia.

· Our own submarines having the tactical ability required.

· Our deterrent being immune from neutralisation by Super Power action.

An examination of Australia's position with regard to these key factors shows that, whilst a submarine deterrent force could be effective in ideal circumstances, it would be extremely risky to put all our eggs in the deterrent basket.

Regarding Australia obtaining prior knowledge of a potential enemy's intention of attacking us, it is reasonable to conclude that there are good prospects of doing this. Only five regional powers now

we care intensely about it. - Five hundred years ago a man called Leonarde da Vinci turned his bountiful genius to the task of achieving manmade flight. To Leonardo, the flight of a bird was an inspiration, a marvel, a riddle he was never to solve. The science of

aerodynamics defied even Leonardo's ingenuity. It was left to men of other generations to unlock the secrets of the bird's wings, to discover the aerofoil section, to



to fly higher and faster than the bird. And having created the marvel for ourselves, still some of us stand in awe of it, as Leonardo did. We count the people of our airline among these. For us,

flight is a phenomenon full of wonder. We want to share it with with you the first time or the next time you fly.



Like Leonardo,

February/March/April, 1975



THE NAVY

Such a policy would put all our

The strategic theory behind this

particular application of the deter-

rent concept rests upon a number of

· Prior knowledge of an enemy's

· Convincing an enemy of the

eggs in the deterrent basket.

intention of attacking.

effectiveness of our deterrent.

key factors:-

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February/March/April, 1975

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ANOTHER

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THE NAVY

have the means to paralyse or seriously hinder Australia's trade - long attacker. The problem of identifying the means to apply substantial pressure against our trade by 1985. It use the weapons they have.

vinced of the effectiveness of our time prior to the establishment of deterrent. Apart from ensuring that identity, intolerable damage could a potential enemy is fully aware of bedone to our prosperity. our submarine strength, it could be natives open to them - they can make errors in making their when Pakistan allowed herself to become embroiled in a war (with India) which she had no hope of winning.

The French nuclear powered ballistic missile type submarine LE **REDOUTABLE** 



range submarines, mines and, in the nationality of attacking subone case, seaborne air. Australia marines would be serious, If this type must plan upon a sixth power having of pressure were applied to our trade, it could be months before the identity of the submarines was should be fairly clear to Australia it established. Until that time, we any of these six powers were to could not run the risk of launching develop the motive and will power to our submarine deterrent force against a country which we were not A potential enemy must be con- certain was the attacker. During the

It would be vital to identify the

For our deterrent to be effective, difficult to convince him that the any potential enemy would have to blow we could strike would be be at least as dependent upon trade unacceptable to his country. Poten- as is Australia. If our deterrent could tial enemies are not always entirely not hurt him much more than he logical in considering strategic alter- could hurt us, our deterrent would not be effective. Of the five regional powers that now have the weapons decisions. An excellent regional to paralyse or seriously hinder our example of this occurred in 1971, trade four are less dependent upon seaborne trade than is Australia. The sixth power, armed with submarines, would not be dependent upon seaborne trade. A strong deterrent strategy such a strategy

Australian submarine force would not be an effective deterrent to five out of six potential regional enemies

Our own submarines would have to have the tactical ability to apply the deterrent - there must be enough of them, and they must be available to outclass the defence. Undoubtedly, our OBERONS have the range and weapons to seriously hinder the maritime trade of any regional power - our submarines are a match individually for any regionally owned boats or escorts. However, if any regional power were to acquire nuclear powered submarines (SSN) from a sponsoring super power, our OBERONS would be disadvantaged. There are reports that France is now considering supplying one regional power with SSNs, For obvious reasons, secondhand SSNs could be sold to regional powers at much shorter notice than we could construct SSNs with which to defend ourselves. Therefore, if Australia were to adopt a submarine would have to be based upon SSNs. These are extremely expensive in themselves and would involve in addition the development of an extremely expensive infrastructure (bases, training equipment, etc). The financial attractions of a submarine deterrent strategy would be eliminated

Our deterrent would have to be immune from neutralisation by super power action. An Australian submarine deterrent would be useless if a potential regional attacker were able to obtain the necessary additional escorts from a sponsoring superpower. Clearly, this would be possible now and for the remainder of this century at least. Further, there is the possibility of our deterrant being neutralised by a Super power applying commercial or diplomatic pressure on behalf of a mendicant regional power - "No

### **OUR COVER**

LHA-1, first of five of the US Navy's new general purpose amphibious assault ships. She is to be commissioned during March, 1975. These vessels are being constructed by Ingalls Shipbuilding division of Litton Industries in Pascagoula,

Mississippi

February/March/April, 1979

THE NAVY

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sales of (say) wheat if you use your submarine deterrent against (say) Ruritania".

Deterrents are effective only so long as the potential opponent is not in a position to strike at least an equally telling blow in return - that is, deterrents are effective until they are neutralised. The Western Democracies used their possession of a (superior) nuclear deterrent to run down their defence of trade force. Their grounds for so doing were that a Totalitarian attack upon Western trade would be so serious as to justify a nuclear response. The world's most powerful Totalitarian state has now developed a balancing nuclear warfare capability - the West's nuclear deterrent has been neutralised. The Democracies now find the Russians can paralyse Western trade because the West has insufficient defence of trade forces and their nuclear deterrent has been neutralised.

s

The principle of deterrent by submarine is not applicable in the defence of Australia - we are more vulnerable to attack by submarine upon our trade than are most regional powers. These powers have the ability to hurt us through trade more than we can hurt them. In these circumstances. Australia would be most unwise to abandon a defence of trade and rely totally upon deterrent by submarine. Finally, once our defence of trade

force had been abandoned, it could not be rebuilt within fifteen years. We would be in dire straits indeed if a regional power neutralised our deterrent.

(Readers may care to read the article in the Australian Financial Review of 2 January, 1975, entitled No Aircraft Carrier Diplomacy. Editor.)

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Page Sever

## Nautical Notes from all Compass Points

P "Sonar"

### FRANCE CROTALE MISSILE FOR FRENCH SHIPS

The Crotale Missile, made by Thomson CSF and Matra for shortrange land-defence against air attack, is to be installed in French frigates, corvettes and the new nuclear-powered helicopter-carrier now being planned. In the corvettes the system will replace one of the 100mm guns.

Crotale has a range of 8 5km and is guided by radio from the launching ship. It requires its own radar.

### IRAN

### IRAN TO BUY **FRENCH FPBs**

The Iranian Navy has ordered six fast patrol boats from Construction Meccanique de Normandie (CMN). The boats will displace 230 tons and will be 47m long. Maximum speed will be 35 knots and operational range 800 miles at 30 knots. Armament will consist of the ship-to-ship missile Exocet and two twin Oerlikon 35mm AA guns.

### . NETHERLANDS

A Netherlands Government contract, valued at about \$10.5m, has been placed with Westland for six Lynx helicopters to be used by the communications and training operations, Initial deliveries are due in 1976. The order includes spares and support equipment.

### SOUTH AFRICA NAVAL MODERNISATION PROGRAMME

Pieter Botha. South African Minister Harrier V/STOL aircraft.

Page Eight

for Defence, announced that his country is to build up her fleet with fast missile carrying warships

The new vessels are to be built at Durban and will be the beginning of an entire naval modernisation programme. Designed for the defence of South Africa's vast coastline, they are scheduled to be completed within two to three years

Reports indicate that the new ships will be highly manoeuvrable. capable of deployment against ships surface vessels, will be fitted with the systems and will be capable of operating at high speeds

the South Africans have also pro- all engine rooms, machinery spaces, duced a surface-to-surface missile naval stores, workshops, ammunicalled Crotale - and intensive tion magazines and their peripheral research in rocketry is being undertaken at a secret base in the Transvaal province.

### UNITED KINGDOM

### £25,000 CONTRACT TO EOUIP NEW HELICOPTER CARRIER. HMS INVINCIBLE

The EMI group has won a contract Royal Netherlands Navy for SAR, worth over £25,000 to design and supply a fully automatic fire detection system for the Royal Navy's new concept in helicopter carriers, the 16,000 tonne antisubmarine cruiser HMS IN-VINCIBLE. Based on sensitive smoke detectors, the 50-zone early warning alarm system will safeguard

The contract was placed with the Minerva Marine Division of AFA-Minerva (EMI) Ltd. of Twickenham. Middlesex, by Vickers Limited, Shipbuilding Group which is building HMS INVINCIBLE at its Barrow-in-Furness yard. The Minerva Marine system was specified for the throughdeck cruiser by the Ministry of Defence which has standardised on this type of fire detection equipment for the majority of the Royal Navy's

Altogether, over 180 AFA-Minerva most modern guided missile type 36 smoke detectors, located in special deck-head mountings, will be installed throughout HMS INVIN-In collaboration with the French, CIBLE, Areas to be protected include compartments, and weapon handling areas

The network of detectors will be divided into zones allocated to specific parts of the ship and linked to a comprehensive control console situated in the vessel's main damage control room. In the event of a fire emergency, the console will indicate in which zone detectors have operated, enabling damage control personnel to quickly identify the area affected.

Up to 60 zones of detectors can be monitored by the control equipment which has facilities for testing each individual smoke detector circuit.

### BHC WINS SKIRT DESIGN CONTRACT

British Hovercraft Corporation has been awarded a subcontract important areas throughout the from Textron's Bell Aerospace warship which is due to enter service. Company of New Orleans, Louisiana in the late 1970s, equipped with Sea to support the design of the vitally On Friday, 7 February, 1975, Mr King helicopters and perhaps important bow skirts for their 2000ton Surface Effect Ship (2KSES).

Bell's contract from the United States Navy is to proceed with the design and development of major systems for the 2KSES and is valued at \$36 million.

### PRINCE CHARLES TACKLES COMMANDO ASSAULT COURSE

Prince Charles, who is a serving Lieutenant with the Royal Navy, making a tree-to-tree rope walk at the Roval Marine training centre, Lympstone. Devon, southern England, where he tackled the tough assault course which forms part of the Royal Marines basic training.

February/March/April, 1975

The course also includes scaling climbing nets and vertical walls, rope swings and slides, a mile and a of Naval Personnel and Second Sea half (2.4km) cross country endur- Lord. ance run and a rigorous obstacle section which includes crawling through a partly submerged pipe. Prince Charles, who recently passed-out as a helicopter pilot, is expected to join the commando ship HMS Hermea in March.

### NUCLEAR POWERED SUBMARINE LAUNCHED

.

HMS SUPERB, the ninth nuclearpowered Fleet submarine to be built tor the Royal Navy, was launched at Barrow-in-Furness on Saturday, 30

November by Mrs David Williams, wife of Admiral David Williams, Chief

SUPERB, which is being built by Vickers Shipbuilding Group, is the third of the latest Swiftsure class. Vickers built her predecessors. Swiftsure and Sovereign, and five of the other six Fleet class submarines.

Superb will have a displacement of 4400 tons on the surface, with a length of 272 feet and a beam of 32.3 feet. Her maximum continuous underwater speed will be in excess of 20 knots, and she will have a totally-submerged endurance of several weeks.

### NAVAL ENVIRONMENTAL MEDICAL RESEARCH AIDED BY SE LABS MULTI-CHANNEL EQUIPMENT

.

At the Royal Navy's Institute of Naval Medicine at Alverstoke near Gosport, a complete multi-channel monitoring and data acquisition system has been installed in the new environmental unit by SE Labs. EMI's instrumentation and measure ment company.

The equipment, comprising an SE 5000A 14-channel FM data recording system, EMI 120 oscilloscope. SM 4000 EMMA system for ECG/EEG measurement, and an SEM 120, 8 channel oscilloscope with control unit, is being used to record biophysical measurements obtained by research into the effect on the human body of problems associated with closed environments

The unit is an important new medical research facility, the focal point being an experimental chamber unique as a permanent installation. The chamber, having a volume of 12,000 cubic feet, can support 12 men in continuous isolation for long periods. It is fully equipped with sleeping facilities, a kitchen and toilet area with two showers. The central floor area can be divided into both working and recreational areas

Access to the chamber is through an air lock. There are air-tight observation windows to allow the Royal Navy's medical team to observe subjects engaged in experiments.

The atmosphere within the chamber can be controlled to very precise limits, and contaminants or additional gases can be fed into the



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closed circuit air system. Temperature, humidity and airflow can be varied to create a wide range of climatic conditions.

The unit makes possible the detailed and accurate measurement of the effect on the human body of various long term environmental situations. Factors affecting life in submarines on long exercises, for example, can be reproduced. measured and studied. Many other situations affecting servicemen and their jobs can be simulated.

The SE Labs 5000A recorder situated in the control room is used to make permanent records of biophysical measurements from research investigations and allows the research team to instantly recall KING and the full weapon system is a particular function for detailed expected to come into use in 1976. analysis. The SE Labs EMMA system. which is sited within the chamber. 20mm Gatling gun with its own pulseenables several subjects to be doppler, search-and-track radar on monitored at the same time.

Medicine unit was designed to meet ft of deck space. the Royal Navy's own immediate generally

### UNITED STATES

#### 'THE FASTEST GUN IN THE WEST' - AND A SMART SHELL

Amidst all these trials of new missiles. General Dynamics of America have recently carried out trials of the Phalanx gun system. which the US Navy is to adopt as a method of defence against incoming missiles

The trial firing was made from a ship simulator on shore which reproduced the motion of a ship at sea. The target was towed by a USN aircraft - not quite the same conditions as a missile attack. The next phase is for the prototype system to go to sea on board the USS

Phalanx consists of a six-barrel the same mounting. The whole system stands about 15ft high. Although the Environmental weighs 11,000lb and occupies 58so

The radar locks on to an incoming research needs, its wide range of target and the gun, which is slaved to new facilities could well produce it, follows the target automatically medical research results of inter- and opens fire when the range national interest. These results reaches a pre-determined point. An would certainly be of use to the electronic spotting device measures other Armed Services, Government, the angular error of shells which the offshore industry and industry miss and automatically corrects the gun's aim.

The Gatling gun has a rate of fire of 3000 rounds per minute and uses a projectile with high penetrating power and hence greater lethality.

The US Naval Weapons Laboratory recently tested a new shell which finds its target by means of the reflected energy of a laser beam directed from another ship or aircraft. A laser receiver in the shell picks up the energy reflected from the target and uses it to steer the proiectile.

The shell is being developed by the USN as a joint-service missile for use by both army and naval guns.

### USSR

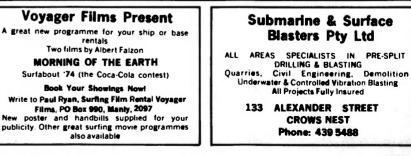
### SSN-8 MISSILES

Two new long range submarinelaunched SSN-8 missiles were recently tired by the USSR over a range of 4000 miles with their single warheads impacting in the Pacific about 500 miles north of Midway Island. Reporting this on October 3, Pentagon sources said the firings were believed to have been made from a new Delta-class submarine and that the range was more than twice that of the longest-ranged US submarine-launched missiles. The Soviet now has five of the new Delta submarines operating, with another five in the final fitting stage. Only the two missile firings were observed before TASS announced the conclusion of the tests.

### **CONTRIBUTIONS INVITED**

The editor invites persons to submit articles, photographs and drawings (black ink) for inclusion in the magazine, but regrets that no payment can be made for contributions submitted. Contributions should be addressed: The Editor "The Navy". Box C178. Clarence Street Post Office, Sydney, NSW, 2000, Australia.

The Editor, does not hold himself responsible for manuscripts, though every effort will be made to return those with which a stamped and addressed envelope is enclosed.



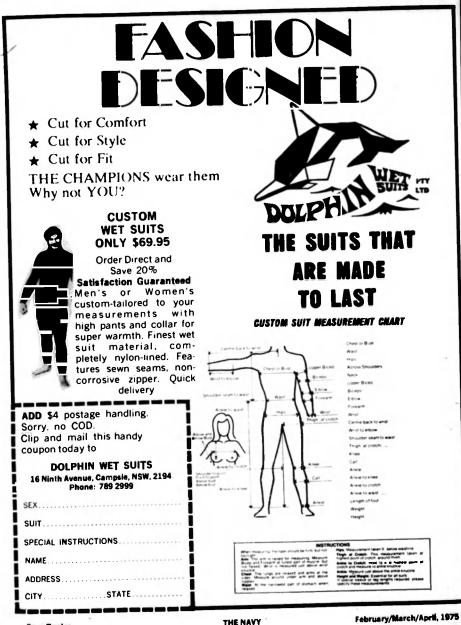
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### COMMANDER F. G. EVANS, TO THE FEDERAL COUNCIL ON 28th FEBRUARY, 1975 This report relates to the calendar year ended 31 December, 1974.

NAVY LEAGUE OF AUSTRALIA

activities: The Study Groups formed often been the case in the past. some time ago to provide us with a defence problems proved very useful disappointed at the lack of progress in 1974, and enabled the League to in determining the place of the Navy make a number of contributions to League in the overall Naval Reserve public debate on defence issues Cadet scheme. Mainly for property during the year.

the League and individual members' long term interests of the cadet were at least partly responsible for movement, this is not enough to be raising issues concerning the Navy of real benefit to either the Cadets or which received widespread public the Navy. attention, and which are still doing so

ential sections of the news media. occasional "splashes" are not enough; constant effort is required to bring subjects forward for public Divisional Executives. thought and debate.

In my experience we are not a "seasurprising in a country the majority of whose people live in close proximity to the sea, and vast numbers of whom take their Mr Dennis Trickett (who puts the recreation in small boats on (and in) the sea. In matters of defence we tend to think in terms of soldiers: and perhaps of the great capabilities of modern aircraft, which may cause people to think (quite wrongly) that Navies are redundant. Few if any significant nations think this way.

being anti-Army or anti-Air Force. this would be ridiculous. What we are trying to achieve is realistic and relate to national security.

is rather thankless for most of the

February/March/April, 1975

Naval Reserve Cadets (formerly The

**REPORT PRESENTED BY THE PRESIDENT** 

better understanding of maritime Australian Sea Cadet Corps); 1 am group of close associates. reasons there is still an association, In fact, I believe it is fair to say that but I am convinced that in the best

Finance: The financial requirements of the Federal Council have cadets is one of our constitutional Although maritime defence is cur- by no means lessened during the rently receiving attention in influ-year; if anything they have increased due to the fact that our wider "maritime" activities have of necessity involved the Council rather than the

A report by the sub-committee setup at the last Council meeting to organisations, and in particular with minded" nation, which is perhaps examine this subject has been forwarded to the Divisions for Association, has been followed consideration.

> 'The Navy' Magazine: The editor, magazine together in his spare minded organisations is already a time) has expressed the views of the normal part of the League's activi-League in a wholly admirable ties in several States, and I hope the manner, and I extend my congratula- practice of "closer association will tions and thanks to him. On the editor's behalf, I invite

members of the League to con- The Navy League in Australia was tribute articles which they consider formed in the main, to support the In drawing attention to the needs would be of interest to fellow cadet movement. Due to the great of the Navy, the Navy League is not members and the increasing costs involved, changes have taken number of subscribers to our place in this area of our responmagazine.

Navy Leagues Overseas: I am balanced thinking on matters which pleased to report there is increasing Divisions. communication between ourselves This traditional task of the League and the Navy Leagues of the United support of the State Presidents, my

Kingdom, Canada and New Zealand, Vice-Presidents and of the Federal time, but it will be too late to start Exchanges of information, con-Secretary in the somewhat diffithinking about what we ought to ducted in the course of personal cult period of adjusting to the new have done if trouble befalls us for visits and in correspondence, Circumstances.

THE NAVY

The League's Maritime Security one reason or another, as has so cannot be other than useful, and i would hope soon to include the United States Navy League in our

Cadet exchange with New Zealand: Arrangements were made during the year for an officer and three New Zealand cadets to visit Australia in December for courses and sightseeing in the Sydney area, and for three cadets from Victoria, the only Division participating in the scheme, to visit New Zealand for the same purpose during January, 1975.

Sponsorship of exchange visits by "aims and objects", and I hope that all States will take part in a further exchange in 1975/6.

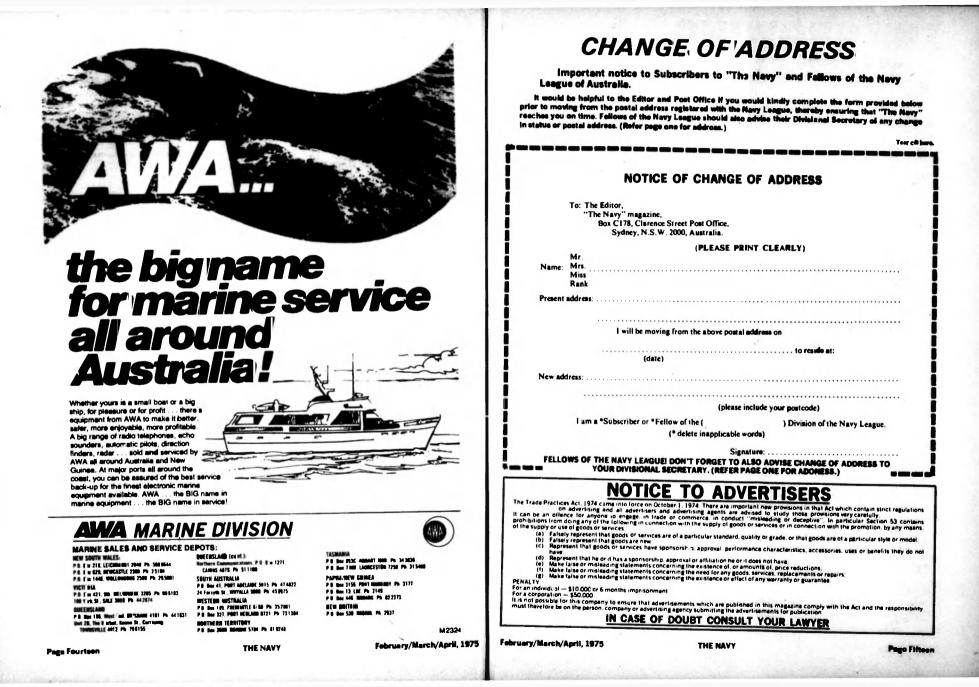
**Relations** with like-minded organisations: A policy of keeping in touch with the national leaders of maritime and defence-orientated the Federal President of the Naval during the year, and has I believe been of benefit to us all.

Active co-operation with likewiden and deepen rapidly.

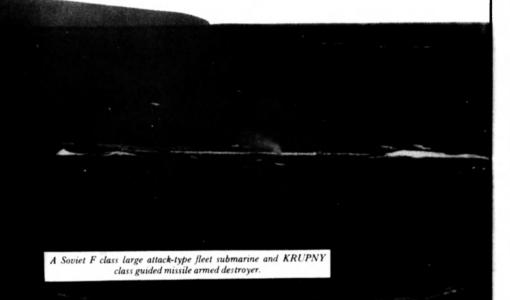
The Office-Bearers of the League: sibilities, with a consequential effect on the organisation and work of the

I appreciate very much indeed the

Page Thirtgen



## THE GROWING **SOVIET FLEET**



By Rear Admiral R. W. Cousins, USN, Commander-in-Chief, US Atlantic Fleet.

Highlights of the major changes in Soviet naval strength which have occurred during the past few years reflect the shifting balance of power in the Atlantic. The maritime capabilities of the Soviet Union, which grow day by day. present a strong, clear challenge to nations of the NATO alliance. - Soviets have spent the past 10 years building a "blue water" navy, capable of challenging the United States for sea supremacy.

phenomenal success.

Soviet Union has created a naval capable "Delta class" submarine. United States ballistic missile sub- "Deltas" per year. marine.

class" nuclear powered ballistic by the end of this decade have mode.

• The national emphasis and the missile submarines in the water resources they have been willing to most of them in their Northern Fleet. 10 per year. put into the effort have produced where they have direct access to the Atlantic, and are moving on into Soviet concentration on submarine . As a first order of business, the production of the larger, more warfare include:

. The USSR now has 33 "Yankee their current rate of production, will from a surfaced or submerged

enough "Yankees" and "Deltas" to give them the full number of launchers and missiles allowed by the interim SALT agreement - 62 nuclear powered ballistic missile submarines and 950 missile tubes.

. It now appears that they could have as many as 30 "Deltas" in the water before the United States has its first "Trident" submarine in the water in 1978. The Soviet Union is building submarines at the rate of

Additional facts concerning the

(1) Production of the nuclear deterrent to counter-balance the Their production rate is six to eight powered attack submarine which can fire a tactical missile with either . The Soviets, if they maintain a conventional or nuclear warhead

(2) The construction of diesel submarines has not been terminated A new, particularly quiet diesel hoat was added to their fleet last year.

(3) Both the "Yankee" and "Delta" model ballistic missile submarines are fitted out with torpedo tubes

(4) While retirement of a few of their old diesel model submarines continues, it is estimated that they could deploy more than 100 submarines in the Atlantic at the outset of any conflict or controntation Enlargement of Surface Navy

The Soviet's modernisation of their surface navy continues at a steady rate.

Construction of their "Kiev class" aircraft carrier continues. A second carrier is under construction

Four new missile firing cruisers and destroyers became operational last year

With respect to the Soviet Navy's logistic support capability, they have supplemented their use of the merchant marine by building underway replenishment ships, giving their navy a capability for sustained operations farther and farther from home bases. The number of Soviet units at sea, throughout the 52 million square miles of the Atlantic Command increase, week by week, month by month. In the Atlantic, the numbers have increased by 50 percent in recent years. At the same time they are maintaining as many as a dozen warships in the Indian Ocean, a naval presence off the hump of Africa, and in the Caribbean. Their auxiliaries, and their merchantmen sail every ocean. Their fishing fleets and their research ships operate throughout country. The Soviets have built a



The nuclear submarine USS ASPRO shown underway in the Gulf of Mexico.

the Atlantic navy of far greater strength than any Their "Yankees" are on station off nation might need for purely detenthe East and West coasts of our sive purposes.

#### US/NATO Response

The United States and NATO response to the emergence of the Soviet Navy as a first rate seapower

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February/March/April, 1975

THE NAVY

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service, at an accelerated rate, of batants of our own There is little reason to anticipate The world is entering a disquieting

The last decade has witnessed the emergence of the Soviet navy as a witnessing a permanent shift in world-wide force - a force with a relationships between the suppliers constantly increasing capability to of raw materials and the consumers go where it wants to go, to stay there of those materials - largely the increasing effectiveness

from one with a purely defensive geography role to one with far-ranging offensive capabilities

#### World Environment

has been a modernisation program lines, at points thousands of miles involving the withdrawal from from the US or Europe.

The Arab oil embargo of 1973 cartel-like organisation. our older, obsolescent ships in order has reinforced our understanding to free up the funds to build more that the United States and NATO modern, more capable sea com- interests are expanding geographic-

any dramatic reversal of current US new era in its economic history or NATO budget trends. We see a moving out of an era when energy different trend on the Soviet side was easy to find, and easy to exploit. Beyond that, the world economy is and to serve state policy with industrialised nations. The uneven concentration of mineral resources We have watched this force change around the world is a critical fact of

> South Africa and Rhodesia have 96 per cent of the world's known chromium reserves.

Almost 60 percent of the world's The Soviets have the ability to known tin reserves are to be found in bring pressure to bear on our oil Thailand, Malaysia and Indonesia.

In the case of copper, Chile, Peru, Zambia and Zaire have formed a

It is increasingly apparent that very few, if any, industrial nations will be truly self-sufficient in the future. The Soviet Union is more selfsufficient than others

We are seeing a movement toward an increasingly interdependent world in which increasingly great volumes of oil, wheat, and minerals are going to be moved between the countries of the world - and all of these will move, in increasing quantities, in ships, on the high seas.

### Ocean Diplomacy

We see developing a new era of ocean politics, a new era of ocean diplomacy, at the same time the Soviets are becoming increasingly capable of exercising power at sea, and deploying new increments of Soviet influence, over the sea lines of communication, and in the peripheral areas of our world.



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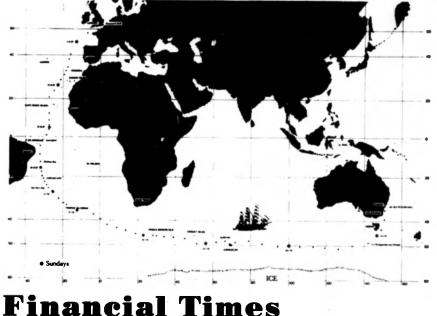
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THE NAVY

Page Nineteen



The record voyage of the clipper ship Patriarch from Gravesend to Sydney in 69 days



# **Clipper Race**

On 31 August, 1975, modern ocean racing yachts will set out on the Financial Times Clipper Race from London to Sydney and back. Over the two legs of this 30,000 mile course they will be competing not only against each other, but also attempting to beat the record set up by the clipper ship PATRIARCH nearly 100 years ago. PATRIARCH made the outward passage round the Cape of Good Hope in 69 days, and returned by way of Cape Horn in 69 days.

#### General Conditions and Special Regulations

The final revised version of the General Conditions and Special **Regulations for the Financial Times** Clipper Race are now being

the Race Committee will be issuing cate over very long distances during competitors.

powerful, high-frequency radio of which must be capable of driving published. In addition to the General equipment with which the yachts the transmitter directly on full Conditions and Special Regulations, will normally be able to communi- power.

February/March/April, 1975

advisory notes for the guidance of most of the race. Power supplies for their radio gear have also been specified and two completely inde-The Special Regulations call for pendent systems are required, either

Page Twenty

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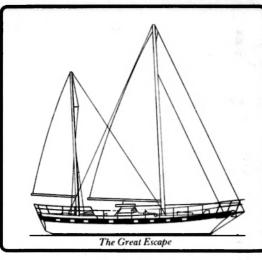
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regulations. Liferaft radio sets are Southern Ocean. required, of the type which can be effective over very long distances. cranking handles.

carry a personal light or flare, and appropriate name for the sturdy the organisers recommend the steel-welded vessel which rates at xenon type - a powerful electronic 55ft and which will be skippered by flare which in ideal conditions can Engineer Henk Huisman. Henk Huisbe seen at ranges of up to ten miles.

meticulous planning and attention which also specialises in yacht to detail which the Financial Times charters. Huisman intends to take a

Emergency equipment will be Clipper Race Committee has put comprehensive and some of the into these regulations. The Comgear will be identical with that mittee gratefully acknowledges carried by big ships. Liferafts have to assistance from many quarters, in conform with SOLAS International particular from those who have Convention on Safety of Life at Sea already sailed and raced through the mahogany and glass case. It will be

#### "The Great Escape"

and which are normally operated by London was visited by a Dutch entrant in the Financial Times Each crew member is required to Clipper Race. The Great Escape is an

man, is the owner of Watersports These requirements reveal the Twellegea, a Dutch sailing school

complement of 12, and has already established the backbone of this crew through a tough training programme. Two years ago he took a sister ship through a force 12 gale in the North Sea. He has already nominated another skipper for the second leg. The Great Escape will not, however, be an all-male affair since three women have already signed on the crew list.

### First Prize Commissioned

The first prize for the Financial Times Clipper Race is to be an 1/8" to a foot (1.96) scale model of the Clipper Ship Patriarch, which holds the record for the fastest ever passages between London and Sydney and back again. The model is being built by Bassett-Lowke of Northampton, one of the few remaining firms of specialist model builders. They have built models for the leading maritime museums of the world and their work probably surpasses in quality and accuracy the beautiful models produced by the old-time ship-wrights and sailors. Bassett-Lowke has achieved this by applying the finest traditions of craftsmanship to modern technological innovations. The model of Patriarch will measure 38 inches overall and will be sealed in a presented to the race winner - the yacht with the fastest aggregate At the beginning of the year, time over both legs, and will be of exceptional value both as a personal memento and as an historical document.

Patriarch was built in 1869 for the White Star Line of Aberdeen which has long since disappeared together with all original records and plans of the ship. For over two years there has been intensive research into the ship and its record-breaking maiden voyage to Sydney. With the

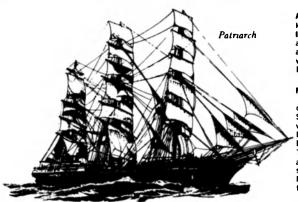


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February/March/April, 1975

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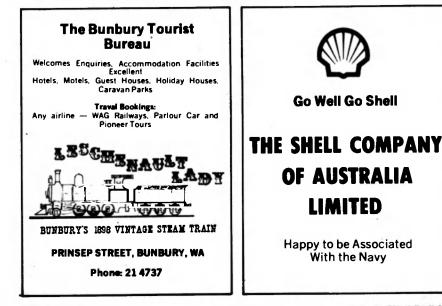
Pege Twenty-three



ping companies enough pictures and information have been collected to make possible an accurate reconstruction of this almost forgotten clipper. A passenger's account of the record breaking Australian Service Entry maiden voyage to Australia has also

aid of several museums, Lloyd's Sydney newspaper under the archives, naval historians and ship-heading "From Gravesend to Sydney" and gives a vivid and knowledgeable account of the ship's progress together with daily will provide full facilities for press. positions. (See map).

News has reached London that Sydney during the yachts' stay in come to light. It was published in a Josko Grubic now intends to carry an Australia.



Australian Nevy crew on his 84 foot ketch, provisionally named Anacoda IL This means that Australia now has a representative national entry, and a worthy rival to Graat Britain II which Chay Blyth has lent for a British joint-Service entry.

#### **Naw French Entry**

The latest entry to reach the race organisers comes from the Cercle Sportif de l'Institut National des Invalides in Cherbourg. Michel-Pierre Doucin will skipper a white Bermudan ketch with a crew of six. The boat, was launched last year and is named Vallene. It is built of steel, designed by Jean Knocker of France and is expected to rate at 45 feet

#### Raca Headquarters

The race committee has decided that a full-time race headquarters should be established in St Katherine's Dock from 11 August. If officials and technical supervisors. There will also be an operational headquarters at Rushcutters Bay,

## **Naval Reserve Cadet News**

### CANADA

### A Tip of The Het To: Participants in the Tri-Service

Cadet Centennial Tattoo. Young men and women from

Winnipeg. Portage la Prairie and Selkirk presented two and half hours of non-stop music, marching, precision drills, displays and pageantry. And the watching crowds loved it!

A special feature was the excellence of NWLC Centennial's marching band. Another highlight was the performance of the RCSCC Deerwood band.

The RCSCC John Travers Cornwall VC band, with massed pipes, brass, reed and percussion, did a grand job on the traditional "Amazing Grace". The NLCC J. R. K. Millen band thrilled the veterans in the audience by playing "Colonel Bogey" on the glockenspiels. RCSCC Ou'-Appelle and RCSCC Cruscader also earned their share of the applause.

VICTORIA

Signal to the Victorian Division Naval Reserve Cadeta from the Senior Officer, Commander F. G. Evans, MBE, VRO, RANR

Some time ago I asked to be relieved as Senior Officer Naval Reserve Cadets, Victoria, at the end of 1974. This time has now arrived.

When I became associated with the sea cadet movement some 26 years ago, it comprised 12 units and 300 cadets in New South Wales and Victoria. Recently it stood at 45 units and 2000 cadets throughout Australia.

able to play some part in the national would not have existed. Quite faction of one's conscience. frankly, it has been hard work and not all problems have been resolved future. even at this time.

February/March/April, 1975



Commander F. G. Evans, the former Senior Officer, Victorian Division, Naval Reserve Cadets.

been sustained by the enthusiasm of the Cadets, the co-operation and loyalty of Unit Commanding TS VOYAGER in transport arranged Officers, Officers and Instructors: and a fine Staff - some members of whom have been with me for nearly a quarter of a century. I have been encouraged by my many friends in the Royal Australian Navy, and by goodwill in all sections of the community. In this support I am very respectively of the Navy League. grateful

the Naval Reserve Cadets it is this: Most of us have ideals and principles; they will be challenged building TS LATROBE operates most from time to time. When this amicably happens each individual must decide in his own mind if his ideals It has been my good fortune to be and his principles are sound. If to B. F. Gregory, RANR, and Mrs his own satisfaction they are, then Gregory, whose Ladies Committee growth of the sea cadet organisa- never cease to fight for them -tion, and of the Navy League without never give up no matter the cost to effective in providing lunch for which the Australian Sea Cadet you personally. This is the only way those, especially TS VOYAGER Corps and Naval Reserve Cadets to achieve peace of mind and satis- cadets, who arrived in time for such I send you my best wishes for the

THE NAVY

#### **Transfer of the Navy League Colour** to TS LATROBE

To seamen, flags play a vital part in their daily life. Their place in identification and visual signalling can be traced far back into history especially to the early Mediterranean seafarers to whom flags also had great symbolic significance on special occasions, when the flag was called a Colour.

Such an occasion, which they too would have recognised, occurred on Saturday, 12 October, 1974, when Commodore B. S. Murray, RAN Naval Officer in Charge of Victoria, transferred the Navy League Colour to TS LATROBE from TS VOYAGER Jf Williamstown. For his impressive ceremony, TS LATROBE had been assessed "The Best Unit in Victoria" during the year 1974, thus earning the right to succeed TS VOYAGER as the custodian of the Colour for one vear

TS LATROBE is situated in the Throughout those years I have Latrobe Valley near Morwell and the flag had been brought from Williamstown by a party of cadets attached to by HMAS LONSDALE. Commodore and Mrs Murray made the 100 mile trip especially for the occasion as did Commander F. G. Evans, MBE. VRD, RANVR. and Lieutenant Commander A. H. Burrows, VRD, RANR, Federal and Victorian Presidents

Many local guests included the If I have a message for members of Mayor of Morwell and Army Officers of the Company of the Royal Australian Engineers in whose depot

All guests were welcomed by the Commanding Officer, Lieutenant was particularly active and very hospitality.

Commodore and Mrs Murray were of course the last to arrive at about 31 December, 1974 1430 hours after the direct drive



Best Wishes to all Members from . . .

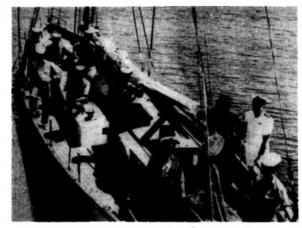
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The Auxiliary cutter WINSTON CHURCHILL on charter to the Navy League of Victoria. Photograph shows the vessel in Corio Bay with Naval Reserve Cadets from TS VOYAGER and TS BARWON embarked (Photograph The Geelong Advertiser).

scheduled diversion around the Power Station Cooling Towers which most Melbourne visitors experienced either arriving or leaving!

After reviewing the cadets of both TS LATROBE and TS VOYAGER. drawn up in the drill hall, and congratulating the former, the Commodore presented a most appropriate address after the Colour was transferred to the immediate care of Chief Petty Officer J. Muir. Amongst other sound advice. he referred to the occasions when flags have been used in battle to provide a rallying point where those dispersed, perhaps in adversity, may re-group and renew their strength and resources. Such an occasion might be likened to the present one, if instead of battle one thinks of constant striving to be the best unit. At least one guest recalled how poets as well as sailors and soldiers had recognised this influence of flags as a source of inspiration

After the Ceremony all cadets marched past the Commodore.

The only regrettable feature of the day was the weather, which was so adverse as to require the whole pro-

February/March/April, 1975

from Melbourne, and a brief un- ceedings to be conducted inside the drill hall instead of outside on the ton. parade ground, where its larger been welcome.

LATROBE's Unit Committee.

interesting Unit being so far from the sea on Victoria's brown coal field, and hence electric power power stations must have water cooling purposes. This often necessi- Senior Officer Lieutenant Comtates a dam and area of water suit- mander A. H. Burrows, VRD, RANR. able for sailing and small boat work. A very enjoyable afternoon. Tea Corps sponsored by the Navy relaxed and friendly atmosphere.

League of Australia. With other Units of the Australian Sea Cadet Corps, TS LATROBE was incorporated into the Naval Reserve Cadets of the Royal Australian Navy, However, the Navy League and local Unit Committees continue to assist the functioning of all these Units. It is to the latter that most of the credit for a very successful Colour Transfer Day belongs.

Presentation of Lonsdale Trophy to **TS BARWON of Victorian Division Naval Reserve Cadets** 

Each year the Unit judged the most improved is awarded the Lonsdale Trophy which was originally presented to the Victorian Division a few short years ago by HMAS Lonsdale.

TS Barwon, situated on Corio Bay, West Beach, Geelong, was the winning Unit for 1974.

In a short and impressive ceremony on Sunday, 15th September, 1974, on board TS Barwon, the Commanding Officer of HMAS Lonsdale, Commander M. de V. Salmon, RAN, presented the Trophy to the Commanding Officer of TS Barwon, Lieutenant (Cadets) R. J. Whitting-

There were many guests including space for the march past would have local dignatories, parents and friends, and a small contingent At about 1530 hours, formalities from TS Latrobe, who relinguished were relaxed and afternoon tea was the trophy. They had a return enjoyed by all, again thanks to TS journey of some 300 miles from their homes in and around Vallourn TS LATROBE is an especially in Gippsland and there attendance was warmly welcomed and appreciated by all.

Also attending this ceremony producing area. However, steam were the Senior Officers of the Division, Commander F. G. Evans, not only for their boilers, but for MBE, VRD, RANR, and the Deputy

Beside such an area of water is TS was prepared and served by the Unit LATROBE which was formed in 1963 Committee to close the formalities as a Unit of the Australian Sea Cadet and complete the gathering in a



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**Page Twenty-six** 

THE NAVY

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### **AROUND THE** TASMANIAN DIVISION

### Compiled by A. J. Lee

A new Commanding Officer has been appointed for TS Macquarle. He is Mr Charles E. Trafford an exsubmariner and now a Police Officer at Strahan, Mr. Trafford was appointed as a Lieutenant in the Naval Reserve Cadets to date, 5 May. 1974

Mr Ray Davis and Mr Rex Wells have been appointed Sub-Lieutenants to assist him

One of Lieutenant Trafford's first acts was the sale of the linit's 54th ketch Reginald M to Victorian buyers. The money will be used to buy smaller class sailing dinghies. The unit has also purchased a 35 seater bus for use as transport to bring their cadets from Oueenstown to Strahan, a distance of 26 miles and provide a considerable budget saving in hired transport.

The bus will be overhauled by the Mt Lvell Company

TS Macquarie expect to hold the full ceremonial commissioning of the Unit on Saturday, 22 February, 1975

was announced of Lieutenant Commander G. T. Boxball from the Tasmanian Division.

Cadet L/S Jones of TS EMU operates VK 7DZW under the watchful eye of Instructor D. Wilson.



Corps. He was Deputy Senior Officer and Training Officer for the Tasmanian Division. He commenced as has not yet been appointed.

promotions were posted.

The Commanding Officer of TS Derwent Lieutenant D. J. Heath was Ulverstone-Devonport advanced to Lieutenant-Commander. He is the first ex Sea Cadet joined Derwent as a cadet at its inaugural parade in 1951. He has been with the Unit except for a brief period for National Service and a time with the Tasmanian Division Headquarters

Senior Instructors Max Webb of Derwent and Andrew Forsyth of Tamar were promoted to Sub-Lieutenant to date, 1 March, 1974.

Ten cadets under Lieutenant Cole man spent five days afloat onboard HMAS Stalwart working out of the port of Hobart. A further ten under Lieutenant Lee were aboard HMAS Hobart for three days and voyaged from Devonport to Hobart.

Four Tasmanian cadets under Senior Instructor MacKenzie atboard HMAS Melbourne alongside In December 1974, the retirement at Sydney. This was part of the preparation for galley staff for the Continuous Training. A total of five



A series of races were held during the year between Emu Leven. Mersey and York (more commonly CO of TS Leven in the early 1960s known as "Yukk") in which no crew and served in that capacity until his could compete twice. The series was present posting in 1972. A successor won by TS EMU. Emu also rounded off the events by winning a rifle com-During the year the following petition between themselves, Mersey and Leven.

The Navalmen's Association of have donated to Leven \$600 worth of equipment including a 14ft boat in Tasmania to achieve this rank. He trailer, three walkie-talkie type radios and radiators. The Association has also undertaken to pay for the repairs to Mersey's 16ft 6in motor skiff which needs rebuilding.

> Leven has also just purchased an Enterprise vacht and trailer for \$400

Ulverstone LIONS will pay \$300 towards this and the yacht will be renamed SEALION in their honor.

Each Unit in the Division is at present attempting to set up a radio link with each other using crystal controlled army type 62 transmitters on 1.725 MKz Final permission from the PMG is expected soon.

On 20 January, eighty cadets tended a ten day cooking course on and thirty-eight Officers and Instructors of the Division entered camp at Fort Direction for ten days Annual skiffs, two whalers and two motor boats were assembled from the Derwent, Emu, Leven and Mersey Units.

The camp was commanded by the Divisional Senior Officer, Lieutenant Commander A. E. Gates. Fewer cadets than normal attended because of the tendency to obtain employment during the very long school holiday.

The accent of training was on boatwork, .22 rangework, drill and radio communications. The radio work was done by Instructor D. Wilson of TS EMU who set up his amateur station at the camp. His callsign was VK7DZW operating on 144 MKz at Fort Direction, Local communication was by walkie-talkie on 27-24 MKz and Army 25 sets on 59 MKz.

A survival trek across Bruny Island had to be called off owing to the work boats being committed to work on the Tasman Bridge Disaster. This also effected the camp as a short trip to the camp became a 100 mile round trip from HMAS Huon to Fort Direction.

Page Twenty-eight

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L/S Philip Rowbottom and A/S MTF John Thurtell.

On Sunday 26th Divisions and

Band marched past the Naval Officer-

in-Charge Tasmania, Commander

Morrell. On the Australia Day

holiday, the camp provided two

whalers complete with crews and

marines in period costumes for the

re-enactment of Governor Phillips

landing at the Sandy Bay regatta.

This was watched by the Governor of

Tasmania, Sir Stanley Burbury who

also inspected the 24 man guard of

honour paraded for him by the

camp. Two unarmed platoons and a

drum and bugle band also formed

The following competitions were

Best Division - Maintop: Lieu-

tenant Andrews, Runner-up -

A. J. Williams sailing Memorial

Trophy -- 1st TS Macquarle, Lieu-

tenant Trafford: 2nd TS Derwent.

Lieutenant Commander Heath 3rd

The Senior Officers Shooting

Trophy - TS Tamar, Lieutenant

Naval Reserve Cadets

Australia - Expedition to

New Zealand, 1975

By Cadet Leading Seaman O. M. G.

Navy League approached the Navy

League of Australia concerning an

exchange of Naval Reserve Cadets.

The idea was that a number of New

Zealand Cadets should spend some

each unit choosing two cadets best

Story of TS MELBOURNE

of

TS Emu, Lieutenant Strudwick

part of the guard

Cleaver

won during the camp.

Foretop: Lieutenant Lee.

We had never met each other before, except for brief moments and we were all wondering what the others were like. By the end of our three weeks trip, we were all extremely good friends. As the day for departure drew near we were kent very busy preparing uniforms etc. acquiring gear from HMAS Longdale, and making final arrangements with LCDR A. H. Burrows President, Navy League — Victoria. On 2 January, we all arrived at Tullamarine Airport where we boarded a Boeing 747B, the trip taking three hours, landing at Christchurch. None of us had been to New Zealand before and were wondering what it would be like

After going through Customs we were met by Chief Petty Officer Sacell RNZN, who was responsible for our travelling arrangements, he took us to Lyttleton where we were met by a launch which took us to the Cadet Training establishment at Ripapa Island.

Ripapa Island was an island fortress built in 1816, as a guard against the threat of a French invasion, the name of the Fortress being Fort Jervois Four big Naval rifles were mounted underground. completely hidden from the sea except when raised for the actual firing.

At Ripapa Island we were kept busy sailing, shooting, hiking, swimming, diving and various other activi-In early 1974, the New Zealand ties. There were sailing and pulling regattas as well as day sailing and pleasure trips. Inside the actual fortress was a rifle range which we used on occasions for shooting and rifle handling instructions. We time in Australia in exchange for a each, at separate times, took part in number of Australian Cadets who hiking and tramping trips and toshould spend an equal amount of gether took part in a big search and time in New Zealand. The idea was rescue exercise. Due to these exeraccepted and immediately plans cises we got to know the hills surrounding Lyttleton quite well. All The selection of the cadets in- in all, we learnt much and had an volved two main sections. It was excellent time during our stay at decided to exchange three carlets. Ripapa Island.

We had a day's leave in Christthought to represent the country, church with the rest of the Islands These cadets then went to HMAS cadets. They were only to happy to Lonsdale to go before the Board of show us the sights of the city, such selection. The Board consisted of as the Queen Elizabeth II park where three Officers of Divisional Staff, the Christchurch games are being NRC, Vic. The interviews were infor- held.

mal but probing and after some After leaving Ripapa Island we deliberation three were selected, the went by bus south to Dunedin. From cadets being L/S OMG Lachlan Story. this time on till the end of our stay

THE NAVY

we were in the charge of the New Zealand Navy League, and they certainly looked after us in fine style

While we were there Chief PTI Johnston took us into Central Otago, right up into the hills. We stayed in Oueenstown for the night and came back the next day. In Oueenstown we took a ferry trip right into the hills. along one massive crater lake. We saw such things as "The Remarkables", a range of mountains which are definitely remarkable. They rise straight up from the water to snow capped peaks. The entire area had been formed by glaciers.

Once back at Dunedin we individually saw the city and surrounding areas. We did a little sailing and a lot of sight seeing. We saw the big albatross colony, the museum, the harbour and the ships, I was taken on a one day drive to see things tourist don't get to see. Such things as a private stud farm and the V8 stock cars.

From Dunedin we returned north to Christchurch for one night. The next morning while John Thurtell and Philip Rowbottom went sailing, I went to see the final of the men's International Tennis Singles at **Oueen Elizabeth II Park.** 

That was some match. Early that afternoon we went inland to stay at a farm for two days. Despite the smallness and hilliness of the farms they are basically the same as Australian farms. We were shown through a long and narrow mountain pass "Four wheel drive only" this was really something. We saw much game in the mountains including deer

From the farm we went back to Christchurch to catch another 747B home. While we were in the terminal building there was a fire alarm and we were evacuated.

All in all it was a fantastic trip for all of us. The New Zealanders could not have been better to us. We learnt a lot and exchanged many ideas with the New Zealand Cadet Corps, It was the highlight of our Cadet career. Due to the success of this venture I feel it should be repeated. Activities such as this are going on all the time in the Naval Reserve Cadets, and it is a very worthwhile organisation

**Page Thirty** 

THE NAVY

February/March/April, 1975

were formulated.

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## Parliament and The Defence Forces



(By

The Honourable Lance Barnard, Australia's Minister for Defence.

Due to the increasing and critical attention being given to defence matters by responsible sections of the news media in recent months, it would not be surprising if the Australian community had a sense of uneasiness about the state of the Armed Services. The calibre of many of the persons commenting on defence issues certainly justifies attention to the subject.

In the main, the concern being from determining its priority in the Defence Force. The effectiveness of the Services at any given time depends largely on decisions made years beforehand, and it is toward this regard. the current decision-making area that criticism appears to be directed.

lies first and foremost with the Federal Parliament. In normal practice, major defence decisions are made and put into effect by the Government of the day, which is ment, subsequently accorded credit or blame for whatever measures it takes or fails to take as the case may no less than five Ministers (for sibilities of his own in another area be. At the moment however the Senate is not without influence on Supply) having direct respon-Government actions, and to some sibilities for matters connected with at the present time, if only for extent this spreads the respon- national security. In addition to numerical reasons, the defence sibility for defence over the whole Parliament - in practice as well as in theory.

make realistic defence decisions -

expressed does not relate to the overall Government programme to present state of the Services, but approving or disapproving major rather to their future capacity to equipment proposals - depends provide Australia with a credible very much on the understanding members have of the various issues when the Labor Party assumed involved, the Ministry of course office, and one Minister was given having particular responsibilities in responsibility for the five depart-

adviser on defence matters is the Responsibility for national defence. Department of Defence, and as the defence organisation is currently so far as the Navy is concerned to its being re-structured it is perhaps situation between 1901 and 1915, timely to refer to the links between and 1921-1939 when it was a part, as the Armed Forces and the Govern- it is once again, of the Defence

Prior to December 1972 "defence" Defence, Navy, Army, Air and of Government. these five Ministers, in the last McMahon government seven others therefore in the Parliament, has had held the Defence. Service, or been greatly weakened. The ability of a Government to Supply portfolios (the Prime

Minister): In short, nearly half the Ministry of 27 members had defence administrative experience and were familiar with defence issues.

President of The Navy

This situation changed abruptly ments in the defence group (lour -The Government's principal Navy, Army, Air and Supply subsequently ceased to exist as separate Departments of State - a reversion Department). Currently the Defence Minister has an assistant who has was well represented in the Ministry, important ministerial respon-

It would be difficult to dispute that "voice" in the Government and

Apart from the fewer direct links Minister himself was a former Navy between the Armed Forces and the

Government and some loss of influence as a result, the administrative burden imposed on a single "full-time" Minister must surely create other problems when the complexity of modern defence forces is considered, together with the immense costs involved

The Secretary of the Defence Department (Sir Arthur Tange) in his Report on the Re-organisation of the Defence Group of Departments (which was accepted by the present Government as the blueprint for the new defence structure) refers to the magnitude of the Defence Minister's task and pre-supposes the provision of other ministerial assistance. It is not however clear what the responsibilities of the "Minister(s) Assisting" would be or where he (or they) would fit into the new organisation. However in a defence structure of which the principal feature is a concentration of managerial authority in two persons - the Defence Secretary and the Chief of Defence Force Stall --- who are responsible to the Defence Minister. it would appear that they would have to be "placed" between the Minister and his two principal advisers (the Secretary and CDFS) which would not seem helpful to anyone.

The 'diarchy' form of defence management (as opposed to the existing 'Board' system) has itself been the subject of some critical comment and if, as the Secretary suggests, the burden is too much for one Minister, the same comment might apply equally to the Secretary himself, who is to be given very much greater responsibility over the whole defence area than any other Public Servant hitherto

Bearing these factors in mind, not least the desirability of increasing Government involvement in defence administration in a practical way, it is possible that our defence interests would be best served by a Defence Council with authority similar to that currently invested in the separate Service Boards

Defence Councils are by no means a new innovation and exist in a number of countries with integrated Armed Services, including Britain whose form of Government and Service structures are very similar to our own. An Australian Defence Council might be comprised as follows -----

Minister for Defence Minister with Personnel responsibilities Minister with Logistics responsibilities

Chief of Defence Force Staff Chief of Defence Dept Secretary of Defence Dept

Chief of Naval Staff Chief of Air Staff Chief of Army Staff

and possibly, Chief Scientific Adviser. There have been suggestions that the proposed new defence organisation will be unduly influenced by its civilian element: Whether this is true or not, the Defence Council suggested would clearly place management responsibility where it should be - on the representatives of the Government, on the principal professional officers, and on the head of the back-up organisation

The Parliament will soon be called upon to determine these very important matters, and it would appear to be in its own interests to give the subject the closest study.

"Skill in naval affairs, as in other crafts, is the result of scientific training. It is impossible to acquire this skill unless the matter be treated as of the first importance and all other pursuits are considered to be secondary to it."

Thucydides c 404 BC



Page Thirty-four

THE NAVY



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increasing weight of informed public opinion. The Navy League will then Camp Hill, Queensland, 4152.

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/March	April 1975	THE NAVY	Dama Thinks

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February/March/April, 1975

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### SUBMARINE ESCAPE VEHICLE PLANNED FOR SWEDISH NAVY

The Royal Swedish Navy rescue organisation intends to rapiaca its existing submaring rescue balls with a submarine rescue vehicle (URF). This URF is to be based at the RSwN Diving Centre (MDC) at Sjodal, south of Stockholm, and in the event of a submarine accident it will be transported by trailer to the nearest suitable harbour to the incident and. from there, will be towed to the position where its services are required.

transferred

The URF embarked divers may

wreckage cover the rescue seat.

The specification of the URF, to itself down to mate with the meet the requirements of the RSwN, submarine enabling the hatch to be has been drawn up by Kockums Mek opened and the casuality's crew Verkstads, well known Swedish submarine designers and builders, in conjunction with the noted French sub-ocean specialists. Comex of Marseilles. The principal particulars of the URF are tabulated for the sake of clarity.

#### **Operational method**

On receipt of a Subsunk alarm the URF would be immediately despatched, on its trailer to the nearest harbour to the accident having suitable launching slipway or lift-off facilities. A surface towing vessel would be simultaneously ordered to the same port.

Meanwhile, at the MDC, two divers will be pressurised to the appropriate depth and then transported in a special personnel transport (PTC) to join the URF which will then be launched

The URF will be towed to the vicinity of the accident, on the surface or, in bad weather, in the submerged condition, receiving power en route by way of an umbilical cord incorporated in the towing hawser. On arrival, divers from the towing vessel will disengage the towing hawser leaving the URF free to commence rescue operations.

Using its passive sonar the URF will home on the automatic pinger with which all Swedish submarines are to be fitted for such an eventuality, From a range of about 100m active sonar will be used, providing a picture of the seabed ahead of the URF and enabling its operators to avoid any obstacles.

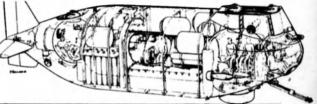
Visual contact will be made at a range of 2-10m and, by means of the manipulator with which the URF is equipped, a steelwire rope is connected to the rescue hatch of the casualty. The URF will then winch

February/March/April, 1975

making a free ascent to the URF floating a few metres above them with its rescue compartment pressurised to the prevailing depth. Pressurisation will be carried out by the surface vessel with the LIRF either surfaced or just submerged Prior to the free ascent of the submarine crew, the rescue vessel will be positioned by wire ropes secured by the URF's divers

Once the rescue has been completed the surface vessel's divers will reconnect the towing cable umbilical and tow the URF, again surfaced or submerged according to weather conditions, back to the start point for disembarkation of the survivors. The URF's own divers may be decompressed in the rescue vehicle have to assist in the mating or be returned to base in the PTC for operation should any deck gear or continuing decompression.

in the event of the rescue seat The order for the URF and being badly damaged, making a accompanying PTC, valued at SwCr proper docking impossible, a 12.6m (Aug '73 level), was placed reserve procedure will be followed, with Kockums with delivery This consists of the submarine crew scheduled for October 1977.



in almost a sector stands and a

Frincipal particulars and p	erformance data
Length	13-50m (44fe 3in)
Breadth	cd 430m (14ft lin)
Height	ce 3.90m (12ft 9in)
Displacement	Ca 49 tons
Draught surface	ca 2.90m (9(r 6in)
Freeboard, f'w'd entrance hatches	cc 0.00m (2ft 7in)
Speed, max shead submerged	ca 10 knots
max astern submerged	cg 1.7 knots
max lateral submerged	co 0.6 knots
max vertical submerged	ca 0.6 knots
max towing, surface and submerged	100 know
Diving depth, max	460m (1,500it)
max for divers activities	300m of 10 rej
max for standard rescue procedure	300m (1,0 -mc)
max for reserve rescue procedure	90m (M Hc)
Endurance, max mission time for URF is 40hr	
assuming following mission profile:	
Towing	IOhr
Search and rescue	IOhr
Towing	IOhr
Salety margin	IOhr
at 2 knots shead speed, with sea-water a	t IS°C and max
economy of aux power consumption the	battery will be
fully discharged after	IOhr
Complement, operators' compartment	2 a Herstors
auxiliaries compartment	- I et al.
divers' compartment	2 divers
rescue compartment	25 survivors
	30 total
Personnel transport capsule (PTC)	capacity 2 persons
max internal pressure	31 bar (455pei)
endurance	406-
Trailer with URF, length (ex cab)	16-50m (54ft 11n)
width	4-30m (14ft lin)
height	4-70m (19/c Sin)
max permissible speed	60km/hr (37ncab)

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THE NAVY

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#### NEW DEFENCE OFFICE IN MELBOURNE

The building, St James Plaza, 350 St Kilda Road - nearly opposite the Shrine of Remembrance - will accommodate 2500 members of the Defence Department including Service personnel

The occupants of the new building will be drawn mainly from Albert Park Barracks, South Melbourne. which will enable that complex to be eventually returned to the Albert Park Trust, and the area to revert to parkland

Occupiers of the new building will include the newly-formed Defence Regional Office, with personnel made up of the integrated Service departments, Other occupants will be the Army Logistics Command, part of RAAF Support Command, and the Headquarters of the Naval Officer-in-Charge, Victoria.

The building consists of two separate areas, one a 26-storey tower, the other a 5-storey block. It is set in an open plaza with trees and modern sculpture. The building is airconditioned, carpeted, and includes three levels of car park. The building should be fully occupied by September, 1975.

### SEA KING FLIGHT FORMED

The first Australian flight of Westland Sea King helicooters was formed last October at a ceremony at the Royal Naval Air Station. Culdrose, Cornwall,

The flight has been formed to train and familiarise RAN personnel with the Sea Kings which will replace the Wessex anti-submarine helicopters now in service with the Fleet Air Arm. Until now RAN personnel have trained with Royal Navy Sea King squadrons.

The Sea King Mark 50s ordered for the RAN are being built to meet Australian requirements and are

February/March/April, 1975

more versatile than those supplied to the Royal Navy, the Indian Navy, the West German Federal Navy and the Norwegian Air Force. Besides their main anti-sub-

marine role, the RAN's Sea Kings will be used for search and rescue operations and casualty evacuation. The helicopters carry two pilots, an

observer and an aircrewman. They are powered by twin Rolls-Royce a number of recent modifications engines and are fitted with advanced designed to improve the flight control, navigation, sonar, and radar equipment. The flight, with 52 RAN personnel, has now taken delivery of two of the 10 helicopters equipment. crdered.

### TURANA DEVELOPMENT

A further series of development flights of the new RAN pilotless target aircraft Turana was successfully completed at Jervis Bay late in 1974

Turana, designed by the **Government Aircraft Factories** (GAF) in Melbourne, is being built for the RAN by GAF in collaboration with other Government establishments and private industry. A number of overseas countries have expressed interest in the target aircraft.

The aircraft tested were fitted with performance and reliability of the system together with specially developed low-altitude flight

The target flew under close control at altitudes down to 15 metres and at speeds of up to 585 km/h, simulating the attack of a sea-skimming antiship missile.

Turana was engaged by the guns of HMAS Swan using non-explosive shells. The miss-distance measuring equipment carried in the drone



This Westland Sea King anti-submarine helicopter was the first of those ordered for the Royal Australian Navy to Ily at Yeovil. England. The Sea Kings will replace the Wessex helicopters which entered service with the RAN in 1962.

THE NAVY

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recorded a number of near-misses Had the shells carried the normal proximity fuse, the drones would probably have been destroyed.

### COMPUTERS FOR DEFENCE

The Department of Manufacturing industry had awarded a contract to Sperry Rand Australia Ltd. for the Supply to the Department of Defence of a Univac 1110 computing system costing approximately \$4m. It is expected that the introduction to service of the Univac equipment in mid-1975 will mark a significant change in the character of the large defence data processing systems to take advantage of modern techniques and equipment including large scale disk storage devices.

### EXTENSION OF SERVICE FOR ADMIRAL SMITH

The service of Admiral Sir Victor Smith, KBE, CB, DSC, Chairman, Chiefs of Staff Committee has been extended by approximately 6 months to 23 November, 1975, He will then have served 5 years in the appointment



Admiral Sir Victor Smith, KBE. CB. DSC. Chairman, Chiels of Stall Committee.

the United States. Singer Librascope The Minister for Defence. Mr Lance is currently the contractor tor all Barnard in announcing the USN submarine tire control systems. extension, said that he was pleased that an officer of the stature and commitment at present, it is antiexperience of Admiral Smith had cipated that Australian industry will agreed to continue serving. This take part in any future programme would be particularly valuable and will provide technical support during an important stage of for the equipment after its Defence reorganisation. introduction into service.

February/March/April, 1975



**NEW FIRE CONTROL** 

SYSTEM FOR

RAN SUBMARINES

A contract worth \$87,000 had been placed with the Librascope Division

of the Singer Corporation for a

contract definition study for a new

computer-based fire control and

combat data processing system for

The new system is intended to

replace the existing equipment and

should improve the effectiveness of

systems have been or are being

developed for submarines of most

Western navies, including the Royal

scope, of Glendale, California, USA,

was made after a thorough technical

evaluation of responses to tenders

from five companies in Europe and

While there is no production

THE NAVY

Navy and the United States Navy. The selection of Singer Libra-

the submarines considerably Computer-based tire control

RAN submarines.

### M2362/8 A LA MODE STYLE

New style sailor hat for the Navy? Not likely, but Able Seaman Stores Naval Stephen Gallagher, has fun trying on a warrior's head-dress in Port Moresby. Stephen, shopping for artifacts, met a friendly highlander from the Goilala District who gave him some helpful advice. The elaborate ceremonial head-dress features Bird of Paradise and eagle feathers. The round objects are cuncups made from sea shell, inlaid with tortoise-shell, Stephen was impressed with the head-dress, but it was not for sale. Stephen is serving at the Papua-New Guinea Defence Force headquarters at Boroka, near Port Moresby.

### SALE OF HMA SHIPS SYDNEY AND QUEENBOROUGH

The Department of Manufacturing Industry have called tenders for the purchase and removal of the ex Navy transport SYDNEY and the destroyer **QUEENBOROUGH, Tenders close at** 2.00 pm on Tuesday, 18 February 1975

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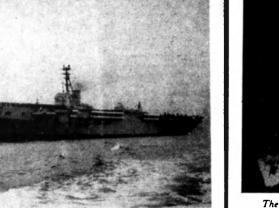
The present Government's policy to remove all Australian Servicemen from overseas bases brings to light an urgent requirement for flexible naval forces patrolling our coastline.

Since the retirement of HMAS Sydney, no multi-role ship exists in the RAN A replacement for Sydney should

have flexibility of roles and should encompass: (A) Surveillance (B) Civil Aid

HMAS STALWART (D125) at sea - present configuration.





The former HMAS SYDNEY, transporting troops and equipment from Vietnam. SYDNEY steamed more than 146,500 miles on her Vietnam voyages.

(C) Training (D) Overseas Equipment Transfer

(E) Amphibious Capacity

#### (A) Surveillance

For example - Flagship of small naval task force (perhaps including 2 type 12 Destroyer Escorts) patrolling Indian Ocean, both deep ocean and coastline. Provide surveillance on Foreign naval forces, fishing resources protection, off-shore rig protection.

The Command Ship should have capabilities of:

 Helicopter Capacity (eg. 3 Sea Kings and 2 Iroquois)

 Troop Capacity (100 troops with landable vehicles and support).

 Task Force Command Post (long) range communication facilities).

 Replenishment for Destroyer Escorts of a task group.

#### (B) Civil Aid

Flagship for civil disaster eventualities. Rapid overseas commitment of civil disaster task force providing

\* Helicopter for evacuation and reconstruction.

On board hospital facilities.

· Landable vehicles and personnel for reconstruction.

February/March/April, 1975



The Amphibious Transport Dock, USS JUNEAU (LPD 10).

#### (C) Training

pilot training at sea.

Transfer

**Keeping Duties**.

(E) Amphibious Capacity

cruises for officers and sailors and

including facilities for helicopter

Ship to be able to undertake sea

transport of service equipment, for

example: New aircraft purchases

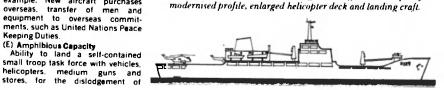
(D) Equipment and Personnel

Ship to be capable of long range Australia's Northern Coastline or as part of UN or SEATO commitment.

### SHIP (ACQUIREMENT)

above requirement would be the US Editor.)

HMAS Stalwart. Author's drawing showing his concept of a



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February/March/April, 1975

**Page Forty-five** 

on this article and submit their own ideas, plans, photographs and drawings (black ink) regarding our need for a Command Ship. Suitable stories will be included in the next Existing ships suitable for the edition - in fuli or abstract -

(Readers are invited to comment

HMAS Stalwart (see photograph and drawing), could be modernised to take 2-3 Sea Kings or Iroquois Helicopters and provide for two landing

SHORT TERM SOLUTION

craft. Existing space allows for hospital and troop accommodation in lieu of sailors as in present role.

built LPD (landing platform deck) also known as Amphibious

Transport Dock of Austin or Raleigh

One of these type ships could be purchased from the US Navy and with minimum modernisation, could hanger 2-3 Sea Kings or 4-5

Troop and amphibious capacity already exist in these ships.

Class (see photograph).

Iroquois Helicopters.

foreign guerilla activity on

Page Forty-four

THE NAVY

Inserted with the Compliments of ANI Australia Pty Ltd NATIONAL FORGE DIVISION	Best Wishes from HUDSONS DRY CLEANERS First-Class Cleaning Service • Alterations • Repairs • Laundry		ITORING SYSTEMS	
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GEORGE ELLIOT AND SONS	THE MERNDA HOTEL	With the Royal Navy and Royal display, group al Netherlands Navy having ordered alarm sequence	arm indication and recording, together Simultaneous with this exercise	
ESSO SERVICE CENTRE For Friendly, Courteous Service at all times	Counter Teas Friday and Saturday Supper Dance Saturday Night		and automatic self. s are an essential seagoing ship operation. Again t	
CNR ST GEORGES ROAD & Normanby Avenue Thornbury, Vic	PLENTY ROAD MERNDA, VIC	The use of more advanced and by the 200 and 10 highly-rated machinery today, was designed spe coupled with the need for remote machinery surve control under wartime operational highest comment	illance and to the lance in a short time. Two 240 channel Decca ISIS 3	
Telephone: 44 2016	Phone: 717 3404	conditions and economic use of has the great manpower, calls for a compre- naval user of hensive but compact surveillance proved (there a	advantages to the systems have been specified being thoroughly main and auxiliary machinery s re 120 systems at veillance in the Command Crui	
By Courtesy of WELCO INDUSTRIAL RUBBER PRODUCTS 211 FERRARS STREET SOUTH MELBOURNE, VIC Telephone: 69 5678	Inserted with the Compliments of LA-PETITE HOUSE OF BEAUTY HAIRDRESSERS 215 McKINNON ROAD McKINNON, VIC Telephone: 58 7527	and the difficulty in verifying the unpublicised to c integrity status of piecemeal instru- mentation. The Decca ISIS 300 solution is a 1970. Evaluation high-speed, solid-state scanning out by MOD(N) ar	teavy development the protracted ciated with equip- eveloped for navai ters for the RN, late, a 100 channel tacinity tor sub- machinery in May work was carried taction different the Type 22 Frigate and has be accepted for use in nuclear su the Type 22 Frigate and has be accepted for use in nuclear su the Royal Netherlands Navy h ordered five systems and these a tacinity tor sub- machinery in May work was carried to the Provide the ISIS 300 is a less sophisticat in passing the shock test specifi the Royal Netherlands Navy h the Royal Netherlands In guid missile frigates and support vessels the SIS 100 is a less sophisticat in passing the shock test specifi	
		system giving a coherent alarm of the system ha	For future contracting specify	
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February/March/April, 1975

February/March/April, 1975

THE NAVY

Page Forty-seven

## The MEL Equipment Co Ltd Launched Their Susie

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reaction time against the unknown intercept system. threat is at a premium, and seconds become the currency for survival.

It must be borne in mind however that:

"Science and technology cannot of themselves, solve the multitude of typical naval environment, the military problems whose roots are equipment does the work, the beyond physical laws and the engineering arts".

Gen James Ferguson, One time Chief Air Force System Command. USAF.

Thus possession of the currency mentioned above implies the possession of equipment representequipment which, within seconds or answers the questions of 'What it is', 'To fire or not to fire'.

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> philosophy that for a single signals, operator to be capable of handling the dense radar spectrum in a operator assesses results.

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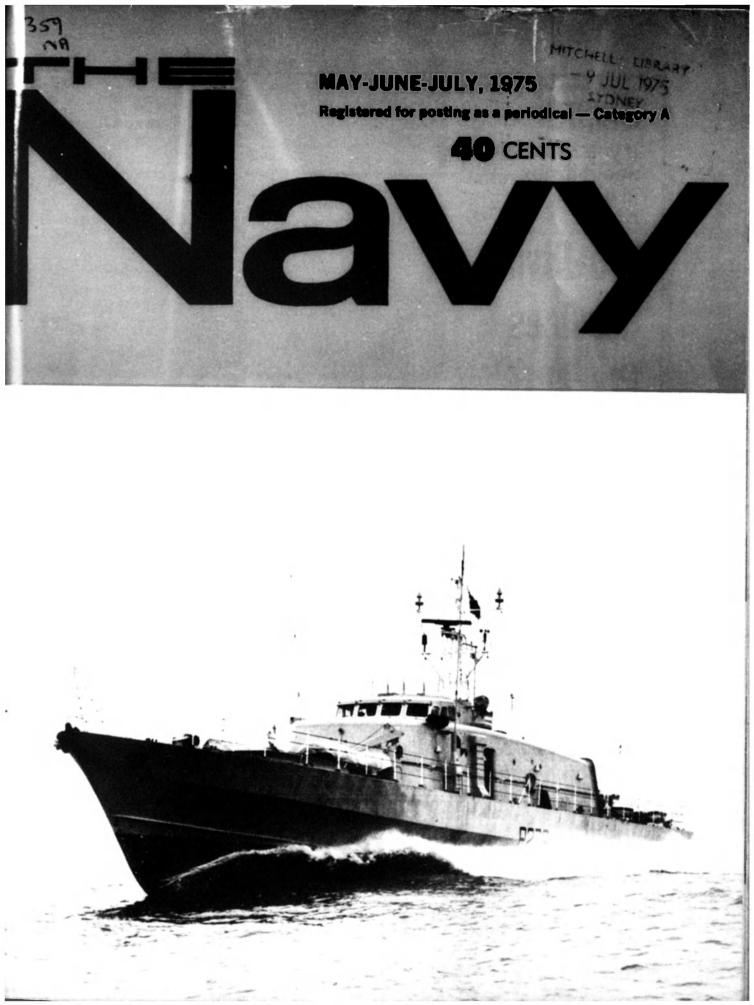
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THE NAVY

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### AND LOTS MORE INTERESTING FEATURES



HMAS MELBOURNE, flagship of the Royal Australian Navy. Her operational life cannot be extended beyond 1980.

A little over 12 months ago the Navy League of Australia published a review of the Royal Australian Navy in the light of possible threats that could arise within the succeeding decade.

At that time the point was are not likely to become involved made that it was an error to directly in a local, conventional look at just the great powers struggle.

to assess likely develop- from the same inhibitions and those nations indigeneous to the area are It was suggested that it was more really where Australia should be

valuable to look at the nations in the looking to ascertain whether there Indian Ocean-Western Pacific area, is any likelihood of a threat developwhich is of course the area of Aus- ing.

tralia's real strategic interest. The Threat, it is worth remembering, great powers may well, in situations can involve actions ranging from which they consider to be of advan- harassment of shipping, to raids on tage to them, become suppliers of isolated parts of the continent, to equipment and expertise, but they blockade to a full scale invasion of this country. The variations within the extremes are many indeed. In the last review of Australia's

maritime defences it was stressed that none of the nations referred to represented a present threat. Nor was it suggested that any of the nations in the area would necessarily become a threat, or seek to apply military pressure upon Australia. But it was said then, and ought to be repeated, that in the present era of instability, when one nation's attitude to another can change very rapidly, it would be foolish to disregard the fact that a number of countries in the region have substantial armed forces and that they are continuing to expand them.

Examples of rapid change in attitude of one nation to another

May/June/July, 1975

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ments.

Page Two





An artist's impression of the proposed Patrol Frigate to be built for the RAN.

can be seen in the Japanese approach to the Arabs vis-a-vis Israel when the oil crisis hit nome and in the policies of the Thai and Philippine Governments to United States bases in their respective countries. It is not the purpose of this paper to suggest that events over the last year or so have produced an immediate threat to Australia. Nor is it suggested that it is now possible to identify some future threat, low level or otherwise. But it is clear that in recent times developments in both the economic and political spheres have increased instability and tension in the region of strategic interest to Australia. While it cannot be said that there is a present identifiable threat to Australia it should not be assumed, in the light of present circumstances, that there will not be some kind of threat within 5 years, 10 years or some longer period.

Just some of the events of recent times show that there is little reason to adopt a simple ostrich-like nothreat policy.

- The oil crisis which affected many of the developing nations as hard as it did those of the industrialised world, requiring them to pay far more for their fuel, fertilisers etc and which in some cases severely limited the amount they could obtain.
- The Suez Canal will open in June, 1975, thereby enabling the Russians to more readily deploy ships and submarines into the Indian Ocean. This will inevitably produce further

naval competition in the area between outside powers. Not only has the United States been deploying task forces into this ocean but so also have the French. In 1974 for the first time the French sent a carrier to the Indian Ocean.

- The continuing tension in the Middle East and the real risk of another outbreak of a shooting war particularly on the Syrian front.
- 4. The problems surrounding the impending independence of Portuguese East Timor provide scope for a real conflict of interest (if nothing worse) between the Indonesian government and various political

groups within the Portuguese colony and between Indonesia and Australia.

5. The sudden and complete collapse of South Vietnam, the not so sudden demise of the Lon Nol government in Cambodia and the probable advent of a Pathet Lao government in Laos with results, particularly in the attitudes of neighbouring countries, yet to be ascertained. It is worth noting just how swift was the change which overwhelmed Indo-China.

The foregoing list is not meant to be a catalogue of woes but is merely intended to illustrate that this is an age, and an area, of instability. Events in distant places can have unpredictable results. A left wing coup in Portugal can give rise to an independence movement in Timor which will concern those in government in Indonesia. The conflict in the Middle East can produce the oil crisis and create difficulties for India and Japan.

Within the Indian Ocean-Western Pacific region those nations with significant armed forces have continued to expand or re-equip them.

Japan is pursuing her current five year plan which includes two guided missile destroyers, three destroyers, six frigates, submarines conventionally powered but some with the Albacore hull and numbers of smaller vessels.

China is continuing her programme which involves the production of more modern surface



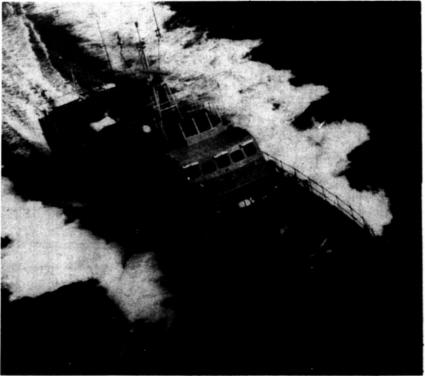
The Daring class destroyers VENDETTA and VAMPIRE were modernised in recent years but should reach the end of their economic life in the early 1980's.

THE NAVY

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units and a continuing flow of submarines.

The Indian building plan is impressive in its scope. It includes seven to ten frigates with the British Leander and French A 69 classes among them. The Indians may now have six Foxtrot submarines. This is, of course, in addition to the existing order of battle which includes a carrier, two cruisers, and some 16 destroyers and frigates. India has, of course, joined the ranks of the nations which have exploded a nuclear device.

For some ten years the Indonesian navy was allowed to run down with few replacements. It is now intended to re-equip the navy and replace many of its aging vessels. There have been recent reports that the Indonesians are going to order four modern destroyer escorts.

It is in the context of the region of which Australia is a part that her defence situation and her defence forces must be judged. It is a background of change and instability where it would be unwise to try to forecast the trend of events more than three or five years ahead. It is a region where all the significant nations are expanding or reequiping their armed forces.

What then is the position of Australia's maritime forces. In the review of Australia's maritime defence, referred to at the beginning of this paper, they were set out as follows:

"1 aircraft carrier (Skyhawk attack bomber aircraft. Tracker A/S aircraft and A/S helicopters), 3 guided missile destroyers, 2 gun-platform destroyers (plus 1 demilitarised as a training ship), 6 destroyer escorts, 4 submarines (plus 2 on order), 1 fleet oiler, 1 destrover tender. 6 minecountermeasures craft, 8 small landing craft, 15 small patrol boats (less 2 to be given to Indonesia), 23 long range maritime patrol (LRMP) aircraft, 24 E111 aircraft "

This list, drawn up more than a year ago, could be repeated as the present order of battle. (Cyclone Tracy has reduced our patrol boat force by one).

There are at present no combat. ships on order for the Royal Australian Navy (RAN) or LRMP aircraft for the Royal Australian Air Force (RAAF). Although there has

HMAS YARRA, a River class frigate similar in design to the British Type 12 class.

### have been placed! Options are held in respect of two

ships and they may be exercised in 1978. If the options are exercised the RAN can expect to receive the two Patrol Frigates in about 1981 by which time four of the Type 12 frigates and all three Daring class destroyers will be 20 to 25 years old. So far no orders have been placed for LRMP aircraft to succeed the aging Neptunes.

Vice-Admiral Sir Richard Peek has both in "The Navy" magazine and in the press set out in some detail what will be the result for the RAN if no replacement programme is implemented in the near future. He has clearly demonstrated that in the 1980's the RAN, without replacement, will consist very largely of aging ships.

Having regard to the long lead times required in the production of modern warships, to provide replacements for the ships which will reach the end of their useful lives. in the period 1980-1985, decisions must be taken in the next 12 months. To not implement such a programme simply means to take a

gamble that all will be well and that no threat will materialise between now and the early 1980's. The two Patrol Frigates, assuming the been talk of the American Patrol options are taken up, cannot of 1980 s.

THE NAVY

Frigates the fact is that no orders themselves be considered an adequate replacement programme.

> It can be reasonably argued that Australia is in a period of great economic difficulty. This is no doubt true. But to order ships (and LRMP aircraft) for delivery in the period 1980-1985 would involve very little expenditure for several years.

> It is, perhaps, worth observing that if no orders are placed before 1980 (except for the Patrol Frigates) then the RAN is unlikely to receive any deliveries before 1986 or 1987. This means that if replacement warships were needed in a hurry they would have to be bought "off the shelf" from overseas - almost certainly second-hand and unlikely to meet Australian requirements without modification.

Good planning should ensure that new ships and aircraft come forward in time to replace those reaching the end of their useful lives. Failure to do so necessarily results in a decline in the strength of the maritime forces. The Navy League has previously called for a plan to enable the timely replacement of HMAS Melbourne, the mothballed HMAS Sydnay, and the destroyer force. Such a programme, together with the purchase of LRMP aircraft. is essential if Australia is to avoid a gap in her maritime defences in the

May/June/July, 1975

May/June/July, 1975





Ernest Carrere, Jnr. and his wife, paid a short visit to Australia at the end of March.

Dr and Mrs Carrere arrived in Sydney from America and New Zealand on Saturday, 22 March, and were met by the NSW Navy League President, Lieutenant Commander Ted Bryden-Brown, who arranged a dinner, and in conjunction with HMAS Penguin, a harbour cruise and visit to the Taronga Zoological Park during the brief period the visitors were in Sydney.

On Monday, 24 March, the and Mrs Stevenson, President and Mrs Carrere flew to the Federal President, Commander Geoff Evans, and the Flag Lieutencalling on the United States Charge 2.00 am on Wednesday. d'Affaires, the visitors, together with they visited Tidbinbilla Reserve.

On Monday evening Dr and Mrs They were escorted to Cerberus by Sir Richard and Lady Peek, Rear- Alan Burrows, and Mrs Burrows.

the Federal President, and Mrs Max Reed

On Tuesday Dr Carrere and the Federal President called on the Secretary of the Defence Department, Sir Arthur Tange: the Chairman, Chiefs of Staff Committee, Admiral Sir Victor Smith; and the Chief of Naval Staff, Vice-Admiral H. D. Stevenson, A lunch in honour of the distinguished visitors was given by Vice-Admiral

Due to industrial action by air Canberra where they were met by hostesses, the remaining Canberra arrangements had to be cancelled to allow the visitors and the Federal ant to the Chief of Naval Staff. President time to drive to Lieutenant Geoff Smith. After Melbourne, where they arrived at

Later in the same day Dr and Mrs the Minister for Defence and Mrs Carrere visited HMAS Cerborus, and Lance Barnard, lunched with the after having been shown the Federal President. In the afternoon Establishment lunched with Captain John McInerney and Mrs McInerney.

Carrere dined with Vice Admiral H. the Victorian Navy League D. Stevenson and Mrs Stevenson, President, Lieutenant Commander

Admiral A. M. Synnot and Mrs. In the evening the Carreres Synnot, Rear-Admiral A. G. attended a reception given by the McFarlane and Mrs McFarlane, Rear- Victorian Division of the Navy Admiral G. J. Willis and Mrs Willis. League at Greenwich House.

Ernest Carrere Inr. President of the United States Navy League, recently visited Australia.

On Thursday Dr Carrere lunched with the Naval Officer-in-Charge Victoria, Commodore B. S. Murray, and Federal and State office-bearers of the Navy League, and after visiting places of interest around Melbourne, spent the evening at the home of the Federal President.

Dr and Mrs Carrere left Melbourne on Good Friday for Fiji, Canada and home, and were farewelled by the Federal and Victorian Presidents of the League.

The United States Navy League has some 45,000 members and is regarded as a "strong voice" for the United States Navy, It also has a sea cadet organisation of 6000 members, and it is hoped that an exchange between American and Australian cadets can be arranged in the not-too-distant future.

Commander Evans believes the visit of the US Navy League President was of value to both Navy Leagues. and in view of the importance of our association with the United States, feels that every effort must be made for our organisations to keep in touch with each other.

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THE NAVY

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THE NAVY

### New Patrol Boats for ... THE ROYAL AUSTRALIAN NAVY

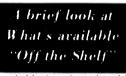
On Wednesday, May 7, 1975, newspaper advertisements invited applications from shipbuilders or their agents wishing to register their interest in tendering for the supply of patrol craft for the Royal Australian Navy.

The advertisements read "The new class of craft is expected to have capabilities similar to the ATTACK class but with improvements in some areas. Copies of the Registration Package may its patrol boat requirements and is The Department of Defence (Navy Office), is to acquaint readers with some of Canberra ...

issued a statement on May 6, 1975 selecting new units. that - the new class of patrol craft would complement and in due the newspaper advertisements to course replace the existing ATTACK contact shipbuilders throughout the class; and would have similar capa-world, known to be currently bilities to the ATTACK class with producing patrol boats. "The Navy" improvements in sea keeping contacted 21 shipbuilders, of which ability, range and speed, radar for 10 had responded at time of going to navigation and surveillance, and selfsufficiency for independent response was brought about largely operation appropriate to condi- by the short time limit given tions off the Australian coast

Shipbuilders interested in information, viz, seven days. tendering would be required to respond with an existing patrol craft hastily collated from material design. Modifications to suit Aus- supplied it would be wise to examine tralian requirements would be the specifications the RAN should agreed during a project definition look for when selecting a suitable phase prior to the letting of a construction contract about Novem- assess the ATTACK class of Patrol ber/December, 1976. Construction would be in Australia or, alternatively, with lead craft built overseas patrol boats in service with the Royal and the remainder in Australia.

No indication has yet been given good design and well constructed by the Minister of the number of craft to be built for the RAN. The generality of the press release and 7.3ft. newspaper advertisements would indicate that the Australian machineguns. Government is at this time completely open-minded regarding 3500hp; two shafts: 21-24 knots.



be obtained by applying in keen solely to ascertain what is writing by May 22, 1975, to currently available throughout the world "off the shelf"

the types of patrol boats currently Australia's then Defence Minister, available and which undoubtedly will the Honourable Lance Barnard, MP, be assessed by the RAN when

> Opportunity was taken following press. It is apparent that this lack of overseas shipbuilders to forward

> Before summarising the details patrol boat design and also briefly Boat currently in service -

The ATTACK (ACUTE) class of Australian Navy are basically of Displacement: 146 tons full load. Dimensions: 107.5 overall x 20 x

Guns: one. 40mm: two medium

Engines: Paxman 16 YJCM diesels;

Complement: 19 (3 officers, 16 sailors)

Twenty boats built - five for Papua New Guinea and two have been transferred to Indonesia.

The RAN now have 13 boats and it has been calculated that by 1982/84 they will reach the end of their operational life.

The main criticism of the ATTACK class boats has been of their ton speed — a little low and there is no doubt that their performance in weather conditions over force 5 is inadequate, in short — the ship will survive longer than the crew in heavy weather.

It would appear desirable that this new class of Australian patrol boats should be:

(a) Of greater size but of no greater draught than the ATTACK boats, as their ability to move in comparatively shallow water is a great asset, particularly for interceptive work

(b) Higher speed has obvious penalties in weight, space and fuel consumption, but a sustained speed of 25 knots would be satisfactory. High speed is desirable to avoid counter attack, either by missiles or aircraft.

(c) Much greater offensive capacity is necessary and obviously surface-to-surface guided missiles would be preferred with a somewhat larger gain than the present 40mm gun. For operations in rough seas or at speed - the missile has the advantage over the shell in that it is controllable after launching, so that the attitude of the boat at the time of firing is not critical.

(d) Some degree of standardisation is advisable in machinery, both In radar, generating capacity and, of course, main engines. Therefore the use of Paxman diesel engines may have some advantage both in the provision of spare parts and in the training of technical staff in operating and maintenance procedures.

(e) Patrol boats should be able to be maintained at forward bases as

May/June/July, 1975



Brooke Marine's 33m craft combines economy of size with functional scope. A variety of duties can be carried out by the craft depending on the armaments selected. With an all-steel hull and aluminium allow superstructure, the 33m has excellent sea-keeping qualities, performance and reliability. The craft's sea-keeping abilities may be further improved by the installation of stabilisers. Weapon capability

can be adapted to particular requirements. The photograph shows one of the large patrol craft recently delivered to the Nigerian Navy. Depending on the engines specified, the craft can have a maximum speed to 26.5 knots and a range of considerably more than 2000 miles. which can be further extended to 3500 miles when the reserve fuel tanks are utilised

(1) Anti-smuggling and infiltra-

(3) Air/sea search and rescue.

(2) Control of shipping.

and surveillance). (5) Harbour defence.

(6) Small naval escort. (7) Mine laying/sweeping

(8) Counter an attack by similar

(9) Attack role against an enemy's shore installations (ie, a small

PATROL CRAFT AVAILABLE "OFF THE SHELF"

**Brooke Marine Limited** 

Lowestoft Suffolk, United Kingdom

**33 METRE** FAST PATROL BOAT

Four have been delivered to

(4) Police duties - guarding and Pakistan, four to Libya, four to New patrolling the Australian coastline Zealand, two to Nigeria and an and territorial water (fisheries patrol additional two are under construction for Nigeria

#### **SPECIFICATION** Construction

All-welded mild steel hull with aluminium alloy superstructure.

#### Propulsion

Twin marine diesel engines driving twin screws through reverse-reduction gearboxes.

#### Performance

Up to 26.5 knots depending on engines specified. Engines: Twin Paxman 12 YJCM diesels; max bhp 1800; max speed 23.5 (knots); max continuous speed (knots) 21.5. Twin Paxman 16 YJCM diesels: max bhp 2400: max speed (knots) 26.5: max continuous speed (knots) 24.0.

THE NAVY

Note: All speeds given at half-load displacement in UK conditions. Range

With standard fuel load at 12 knots, 2300 nautical miles. With reserve tanks at 12 knots.

3500 nautical miles. Ctabilipers

Fin-type (operational extra). Accommodation

Arranged for a total complement of 21. Commanding officer in separate cabin. Two officers. Two petty officers. 16 ratings. All-electric galley with cooker, water heater, deep-freeze, refrigerator. etc.

Wardroom

Separate toilet facilities tor officers, petty officers and ratings.

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Alternative accommodation arrangements can be worked to suit owners' requirements.

### Ventilation

Mechanical supply and natural exhaust of fresh air to all accommodation, operational spaces and toilets. Mechanical supply and exhaust to galley and engine room. Air-conditioning available if required.

#### Standard armament Forward - 40mm gun

Aft — 40mm gun. Two 2in rocket flare launchers.

### Total magazine capacity (40mm) - 960 rounds.

### **BROOKE MARINE'S 37.5** METRE

### FAST PATROL BOAT

Four of these vessels have been built and another four are under construction for the Sultanate of Oman; one has been delivered to the displacement. British Ministry of Defence (Air); one Range for an East African country and an East African country.

Propulsion Twin marine diesel engines driving twin screws, through reversereduction gearboxes. Performance

aluminium alloy superstructure.

All-welded mild steel hull with

SPECIFICATION

Construction

Up to a maximum of 67 km/h (36 knots) may be obtained, depending on engines selected and on overall

With standard fuel load at 24 km/h another three are now being built for (13 knots) 6100 km (3300 nautical fresh air to all other necessary miles).

Commanding officer in separate cabin. 2 officers

Accommodation

2 or 4 petty officers 18 ratings

Fin-type (optional extra),

of 25 depending on role.

#### Ventilation

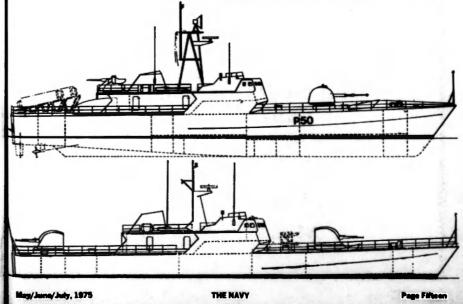
Stabilisers

All living and operational spaces air-conditioned.

Arranged for a total complement

Mechanical supply and exhaust of spaces.

The Strike and Defence Escort versions of the 50 metre fast patrol craft by Brooke Marine. This craft has been designed and developed to meet the requirements of navies for general long range patrol operations, for offensive strike action and for defence escort duties. The ship is offered in two versions: (i) a high speed missile carrying strike craft; (ii) a medium high speed defence escort craft.





The Brooke Marine 37.5 metre last patrol boat, the first of four

constructed for an East African country.

May/June/July, 1975

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## Best Wishes to All Navy Personnel from ...

E.M.I. **ELECTRONICS** (AUST) PTY LTD PO BOX 161, ELIZABETH, SA 5112 Telephone: (08) 255 1322

#### Standard armament Forward - 40mm gun.

Aft - 40mm gun. Two 2in rocket flare launchers. Total magazine capacity (40mm) - 960 rounds.

Alternative armament (including weapon control and radar systems) may be installed to suit purchasers' particular requirements.

#### BROOKE MARINE'S **50 METRE**

**FAST PATROL CRAFT** A PROJECTED DESIGN IN NEGOTIA-TION WITH THREE OVERSEAS NAVIES

### **SPECIFICATION**

#### Principal dimensions (strike and defence and escort craft)

Length overall: 50.65m (166ft 0in) Length on waterline: 47.55m (156ft Oin). Beam, maximum: 8.23m (27ft Oin). Depth, moulded: 4.57m (15ft 0in). Draught, mean: 2.05m (6ft 9in). Displacement, standard: 275 tons, approximately.

#### Armament (strike craft)

Guns - forward: 76mm Oto Melara; aft: 30mm twin A32 Naval mounting.

Missiles: ship designed to accept 4 Exocet missiles.

Tracking radar: Selenia Orion RTN 10X

Surveillance radar: Decca TM1229. Fire control: Direction and control of main gun from radar by dedicated computers. Provision to receive the direction and control system of the Exocet missiles.

#### Armament --- (defence escort craft)

Guns - forward: Bofors 57mm automatic types; aft: Bofors 57mm automatic type.

Tracking radar: Selenia Orion RTN 10X Surveillance radar: Decca TM1229.

Fire control: Direction and control of both guns from radar by dedicated computers.

#### Performance (strike craft)

Speed (standard displacement): 41 knots maximum: 37 knots continuous: 25 knots cruising (3 diesels only): 15 knots cruising (centre diesel only); 12 knots economical cruising.

Range, at continuous speed: 500 nautical miles; at cruising speed (12 knots): 2160 nautical miles.

Performance (defence escort craft) Speed (standard displacement): 33 knots maximum; 30 knots continuous; 22.5 knots cruising (wing engines); 15 knots cruising (centre engine); 12 knots

#### economical cruising. Machinery (strike craft)

The main propulsion comprises: each wing shaft - one marine gas turbine combined with one marine diesel engine driving a fixed pitch propeller through a reverse/ reduction gearbox.

Centre shaft -- one marine diesel engine driving a controllable pitch propeller through a reduction gearbox.

Maximum rating: 19,660 hp. Continuous rating: 16,500 hp.

#### Machinery (defence escort craft)

The main propulsion comprises: each wing shaft - one marine diesel engine driving a fixed pitch propeller through a reverse/reduction gearbox.

Centre-shaft -- one marine diesel engine driving a controllable pitch propeller through a reduction gearhow

Maximum rating: 11,160 hp. Continuous rating: 9100 hp. Hull form

Round bilge with raked stem, flush deck and radiused transom stern. Construction

All welded steel hull with sea water resistant aluminium alloy superstructure.

#### Accommodation

Commanding officer: day/sleeping cabin and toilet.

Two officers: double cabin, toilet and wardroom

Six senior ratings: one cabin of three 2-tier berths and toilet.

Twenty-four junior ratings: one mess deck with 3-tier berths and recreational space, and separate washroom and heads.

#### "GUARDIAN" 20 METRE PATROL BOAT

Navy, Coastguard and Marine Police Small naval escort: Coastal patrol: Harbour defence; Air/Sea rescue; Fishery protection: Anti-smuggling and inflitration; Police surveillance. Shipping

Rule of the road/Control of shipping duties.



The GUARDIAN 20 metre (65/t) patrol boat built by Aquarius Boat Co Ltd and marketed by Marine and Coastal Limited, London. This vessel has recently been delivered to Barbados.



May/June/July, 1975

May/Juna/July, 1975

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#### Training

Independent command. Several 20 metre craft may operate for the cost can ride out heavy weather. ot a large boat, with the advantages to be gained from numbers, to give good accommodation for the dispersal and several small independent commands. CHARACTERISTICS.

The 20 metre "Guardian" Patrol

sea-keeping quality enable it to operate inshore or out at sea and it

The layout has also been designed crew so that the boat can be used for detached patrols.

#### Surface Defence

It can carry a SHORT "Blowpipe" Boat is fast and seaworthy, easy to opticap missile system, which has a maintain and provides a stable range of 3000 metres and a warhead platform for a short range weapon equivalent to a 76mm shell system. Its shallow drait and good enough to damage a heavier ship or

put out of action a smaller ship. The missile is guided in flight.

#### Air Defence

The same "Blowpipe" missile is effective against all low-flying aircraft in air defence, supplemented by the 20mm cannon.

#### BASIC CHARACTERISTICS Dimensions

Length, Hull, 65ft 6in; 20m. Length, WL. 55tt 6in; 16.90m. Beam, 17ft 6in: 5.3m. Draft, 5tt: 1.52m.

P-	Engine Make	General Motors GM 12V 71 T1	MTU MTU MB 8V 331 TC 80	MTU MTU MB 12V 331 TC 81		
Machinery Alternatives	Max SHP (each)	650	875	1350		
	Continuous SHP (each)	595	735	1125		
	Displacement (Medium Load)	30 tons	31 tons	32 ½ tons		
Speeds	(At medium load displacement)					
	Maximum speed	23 knots	27 knots	33 knots		
	Full speed (continuous)	21 knots	24 knots	30 knots		
	Cruising speed (continuous)	18 knots	18 knots	18 knots		
	Patrol speed	15 knots	12 knots (one engine)	12 knots (one engine)		
Endurance	At full speed	500 miles	500 miles	350 miles		
	At cruising speed (continuous)	650 miles	650 miles	650 miles		
	At patrol speed	750 miles	1000 miles	1000 miles		
	Fuel Capacity	1500 imp galls	1500 Imp galis	1500 imp galls		

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Mag/June/July, 1975 May/June/July, 1975



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Built by Commenza Jachtbouw B.V. this 25 metres last patrol boat. depending on diesel engines fitted, is capable of speeds of 45 knots.

#### Gemboxet 2 x 7F - 800 HS 20 or REINTJES

SWA 800

#### Performance

Extreme tropical conditions, half load: displacement: 24 knots maximum, 21 knots continuous, Range

In excess of 1000 nautical miles at cruising speed in full load condition. ALTERNATIVE PROPULSION Machinery

#### 2 x MTU 16 V 538 TB 92; 4000hp each at 1900rpm (max): 3350hp

each at 1790rpm (cont); Rating DIN 6270

#### Performance

Extreme tropical conditions, half load displacement: approximately 42 knots maximum and approximately 37 knots continuous. Alternative engines may be fitted according to displacement and performance required by the customer. Typical examples of engine installations and approximate speeds obtainable in tropical conditions are given below. **Marina Diasel Egnines** 

2 x 1350hp: 25 knots maximum. 22 knots maximum continuous; 2 x 4000hp; 45 knots maximum; 40 knots maximum continuous.

If speeds in excess of the above target are needed, the vessels can be fitted-out with gas turbines as main machinery which, combined with sophisticated weapon systems, will make the FPBs formidable small warships.

**AILSA Shipbuilding Co** Limited, Scotland AZTECA CLASS PATROL VESSEL Length overall 34 34 metres Length on load waterline 30.94 metres Breadth moulded

Depth moulded amidships 4 14 metres Draught aft (maximum) 219 metres Maximum sprint ratings in trials

condition 24 knots

Maximum continuous speed 21 % knots

**Economic cruising speed** 18 knots

Endurance at maximum continuous speed 750 nautical miles

**Endurance at Cruising speed** 1000 nautical miles.

Fuel oil capacity 21 tons

Fresh water capacity

#### 4.5 tons. Accommodation for

One senior officer: Commanding officer (with spare berth): Four officers: Four petty officers: Fourteen ratings.

YJCM Diesel, each developing partition bulkheads are of "Plasti-1800bhp and driving a fixed pitch propeller through a reverse/ reduction gearbox.

14211 Oin Length on waterline 130ft Oin Beam moulded 26ft 6 1/2 in. Depth moulded 13ft 5in. Draught (approximate) 7ft 9in Top speed 40 knots Displacement (approximate) 220 tons.

Principal dimensions

Length overall

Length on dock

144tt 6in

Construction

The hull is of prefabricated construction in all-welded mild steel. with aluminium alloy superstructure. The hull is sub-divided into watertight compartments by Main engines Paxman Ventura 12 steel bulkheads; the internal cell", faced with laminated plastic, Thermal insulation is fitted to the ship's sides and on the underside of

Self contained air-conditioning units are provided throughout the

The vessel can be fitted with a 40mm gun lorward and a twin 20mm gun aft and two rocket flare

VOSPER THORNYCROFT GROUP

PORTSMOUTH.

ENGLAND

142ft Fast Patrol Boat --

**TENACITY Now in Service** 

with The Royal Navy

accommodation

launchers are provided.



An AZTECA class patrol boat built by Ailsa Shipbuilding Co Limited, Troon, Scotland, for the Mexican Navy.

THE NAVY

May/June/July, 1979

May/June/July, 1979

8.65 metres

the weather decks in the superstructure and throughout the accommodation spaces. Acoustic insulation is fitted to the engine room bulkheads

#### Machinery

The 142ft fast patrol boats can be nowered by two separate machinery arrangements:

The diesel version has four Napier Deltic or Maybach diesels, giving a maximum speed of about 40 knots.

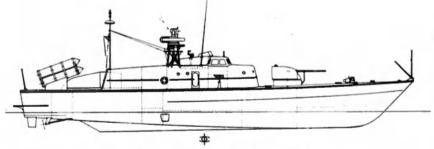
The CODOG version has three Rolls Royce Proteus gas turbines also giving a maximum speed of about 40 knots, with Paxman or Maybach 6cylinder diesels on the wing shafts for manoeuvring or cruising at speeds up to 15 knots.

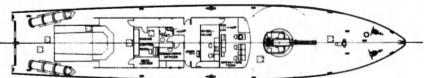
The engine control room contains all the controls for the main engines and electrical generating plant. Full alarm and protection equipment for all machinery is fitted together with

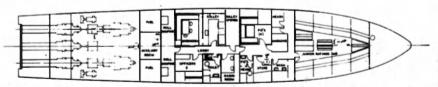


Vosper Thornycroft private venture last patrol boat Tenacity. This 142 foot, 40 knot, gas turbine-diesel fast patrol boat, armed with an advanced weapons system of powerful modern guns and guided missiles, represents a new generation of fast patrol boats capable of engaging major warships and modern aircraft.

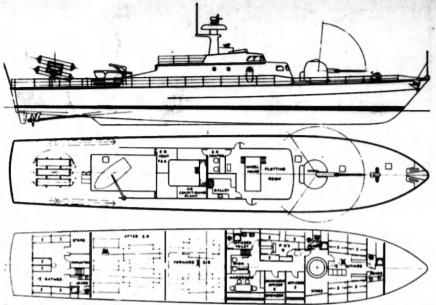
surveillance of all machinery. Engine complete instrumentation. The main switchboard is situated order and revolution telegraphs are in the same compartment, so that fitted between the wheelhouse and one man can maintain complete the control room







Triple screw 142/t (ast patrol boat powered by three Rolls Royce Proteus gas turbines and cruising diesels on the wing shafts. The forward gun is an Oerlikon twin 35mm controlled by Contraves Sea Hunter Mk 4. which also controls the four Controves Sea Killer missiles in two fixed mountings on the alt deck.



Quadruple screw 142/t fast patrol boat powered by four diesel engines. The forward gun is an Oto Melara 76mm controlled by Continues Sea Hunter Mk 4, complete with stabilised optical sight, which also controls the five Sea Killer missiles in a rotatable mounting on the alt deck. Two torpedoes or other weapons can also be fitted

### **Vosper Thornycroft Fast** Patrol Boat Design for Venezuela

Venezuela's new squadron of six 37 metre fast patrol boats is nearing completion at the Portsmouth shipyards of the designers and builders. Vosper Thornycroft Limited, Two of the boats have already sailed tor Venezuela and the remaining four are at various stages of fitting out and trials.

The FPBs were designed by Vosper Thornycroft to meet the specific requirements of the Venezuelan Navy. The contract for their design and construction was placed in April, 1972, and valued at over £6 million.

The 37 metre boats have steel hulls driven by two diesel engines at speeds of up to 30 knots. Three of the six carry a gun armament consisting of a 76mm Oto Melara gun mounting with associated

system and smaller weapons, while the remaining three are to carry a twin Otomat anti-ship missile system and 40mm gun.

The 76mm Oto Melara gun is a fully automatic weapon capable of rates of fire from single shots up to 85 rounds a minute. It is a very accurate, well tried gun, comparatively light in weight and very suitable for the larger types of fast patrol boat. It has a range of over 16,000 metres. Where used in conjunction with ELSAG fire control equipment, as in these boats, it is effective against missiles, aircraft or ships and can also be used for bombardment.

When the mounting is ready to fire and switched to remote control the first 80 rounds can be fired with the gun completely unmanned, after which it is only necessary to reload the revolving magazine. The

Nuova San Giorgio NA 10 fire control three officers, four petty officers and ten ratings, with spare accommodation for two more.

The hull design is a development of earlier Vosper Thornycroft steel FPB forms, having modified round-bilge sections, a spray-deflecting knuckle in the topsides forward, and a spray strake between this and the waterline, the afterbody has a firm rounded bilge and deadrise reducing to about 3 degrees, straight buttock lines and a substantial skeg

The aim has been a good reserve of buoyancy forward, deflection of spray and solid water, and good running characteristics at speed and in following seas. These characteristics have been confirmed on trials.

The hull structure is of welded steel, on the longitudinal system with deep framing and longitudinal complement of each boat is Captain, girders and stringers. The hull is





One of three Venezuelan 37 metre fast patrol boats built by Vosper Thornveroft, fitted with a twin Otomat anti-ship missile system and a 40mm gun.

formed by riveting aluminium alloy welded and partly riveted.

subdivided into seven watertight having a sprint rating of 3540bhp compartments by bulkheads each at 1900-1950 rev/min and a maximum continuous rating of diaphragm plates to the appropriate 2950bhp each at 1790 rev/min, both steel web frames. The weather deck ratings being at 20°C ambient air is of galvanized steel and the super- and sea water temperatures. The structure of aluminium alloy partly engines are 16-cylinder, vee-form. turbo-charged, uni directional Main propulsion engines are twin charge air-cooled, four-stroke units,

MTU Type MD 16V 538TB90 diesels, with air starting.

They are flexibly mounted and flexibly coupled to rigidly mounted MTU reverse/reduction gearboxes incorporating the main thrust bearings and having a reduction ratio of 2.25:1. The gearboxes are arranged to provide outward turning propellers when going ahead. Engines and gearboxes are provided with a comprehensive monitoring and alarm system.

#### Principal dimensions

Length overall, 36.88m (121ft); Length, waterline 33.53m (110ft); Beam, moulded, 7.16m (23.4ft); Depth, moulded 381m (12.5ft); Draught, aft, 1.73 (5.7ft)

### **Fairey Marine Limited** Hamble, Southampton. England TRACKER COASTGUARD VESSEL

LOA 19.6 metres: Beam 49 metres; Draft 1.45 metres; Displacement 32,000kg; 24 knots with twin 650hp diesel: 28 knots with twin 900hp diesel; Endurance 500 nautical miles at cruise speed; Armament two 20mm cannons; Complement 3 officers, 8 men: Hard chine from GRP hull, GRP deck and aluminium superstructure.

This GRP 19.6 metre Fast Coastguard Patrol Boat has already been

Three of Venezuela's six 37 metre fast patrol boats are fitted with a 76mm Oto Melara gun.



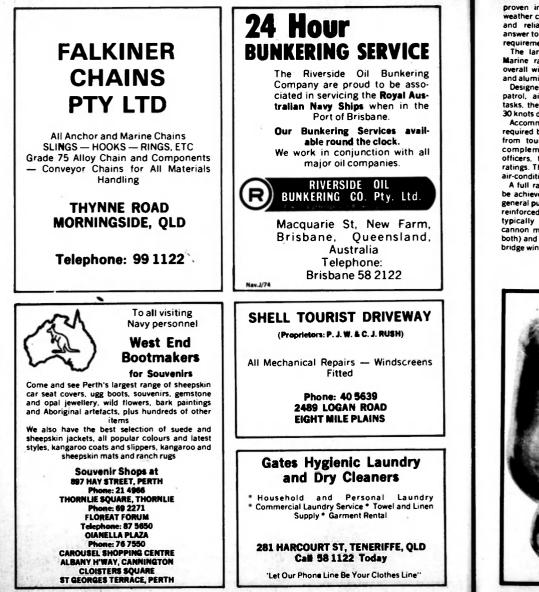
HMS\_TENACITY (P276), a fast\_Attack\_Patrol\_craft\_was\_built\_ Thornycroft Limited and commissioned into the Royal Nav February 1973

May/June/July, 1975

THE NAVY

Page Twenty-seven

Page Twenty-six



proven in service in the worst of weather conditions. Simple in design and reliable, it is the economic answer to the 6/7 day offshore patrol requirement.

The largest vessel in the Fairey Marine range is the Tracker, 64ft overall with a GRP hard chine hull and aluminium alloy superstructure.

Designed for fast coastguard patrol, air-sea rescue and similar tasks, the Tracker has speeds up to 30 knots depending on the engine lit.

Accommodation can be tailored as required but for off-shore patrols of from tour to nine days a typical complement would be three officers, two NCOs and six junior ratings. The crew's quarters are fully air-conditioned.

A full radio and navigation fit can be achieved selected for specific or general purpose roles and the deck is reinforced for armment mounting, typically a 20mm quick-firing cannon mounted forward or att (or both) and light machine guns on the bridge wings.

TRACKER coastguard patrol vessel built by Fairey Marine Limited, England.



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# MINES Threat Today

by A. W. GRAZEBROOK Federal Vice-President the Navy League

time trade - not in fifteen years but now - and we would be hard put to identify who had laid the mines.

Since World War II. mines have been used in both the offensive (throttling an enemy's trade in coastal waters and port approaches) and defensive (inhibiting an enemy's amphibious attack) roles.

The North Koreans used them in both roles against the United Nations in the early nineteen fifties. The mines were laid by small craft. A number of United Nations minesweepers were destroyed and several larger craft damaged, and the threat of mines forced suspension of maritime activity on several occasions.

Mines have been used on a number of occasions in a defensive role in the Suez area during the three majorconflicts there since 1948. Clear-

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approaches of mines has been one

In the Bangla Desh War, of 1971. both Indians and Pakistanis used mines. The Pakistanis attempted to bottle up the Indian carrier Task Force in Vishakapatnam. The Operation was a failure - the Pakistani submarine PNS Ghazi was destroyed in the approaches to Vishakapatnam. The Indians used mines to prevent the escape of the Pakistani troops in what became Bangla Desh.

In 1972, US aircraft laid mines in the approaches to Haiphong and other North Vietnamese ports All North Vietnam's external maritime trade ceased, as did much of her coastal trade, until the US Navy cleared the mines from North Vietnamese waters. This apart from demonstrating the effectiveness of the mine, this action finally laid to rest the theory that an attack upon nuclear war.

Probably the most worrying aspect of the mine is the ease with, and low cost at, which it can be laid. Mines are cheap and relatively unsophisticated - they can be and have been used by Indian Ocean regional powers. They can be laid from merchant ships adapted for the purpose - the adaption takes only a

ance of the Suez Canal and its few weeks. They can be laid by purpose built warships, by aircraft of the factors delaying the re-open- or by submarines. Today, there are few purpose built minelayers in the world - the job can be easily done by other means.

> Contact mines - the type used seventy years ago - are still in use today. However, other types of mines available today offer a far wider range of capabilities. Types of mines in use today can be divided into two broad types - moored mines and influence mines. A feature of both types is that they are effective only in relatively shallow waters.

> Moored mines are exploded by a vessel striking the mine itself or one of its antennae. These mines are relatively easy to clear with the conventional oropesa sweep towed by a minesweeper or helicopter.

While the dangers of the moored mine should not be underestimated. the mine clearance problems trade will result in escalation to caused by the ground (or influence) mines are much greater.

> There are three basic types of influence mine:

> Acoustic Mines - exploded by the noise of a ship's propeller or machinery.

> Magnetic Mines - exploded by a change in the magnetic field resulting from the passage overhead of a

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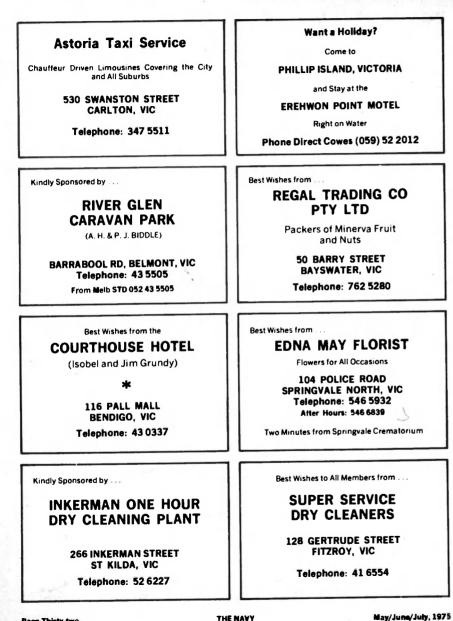
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Stern view of HMAS SNIPE. Even though she has been converted for minehunting she carries some gear associated with minesweepers, notably the diverters which can be seen hanging over the stern, and the drums wound with sweep wire. This enables the hunter to work with a ninesweeper.

ship constructed from magnetic materials. Pressure Mines - exploded by

changing water pressure resulting from the passage overhead of a ship. The advent of new types of ground mine - that is, mines laid on the bottom of the sea - has necessitated the development of mine countermeasures (MCM) techniques as a science embracing all MCM activities including the original Oropesa sweeping.

The principle methods of dealing with a magnetic mine are removing the magnetic field of the potential target ship (degaussing, as was done during World War II) and neutralising the mine itself. Until recently, magnetic mines were neutralised by a minesweeper (preferably constructed of wood or other nonmagnetic material) laboriously towing electrodes attached to cables over the area to be cleared. A pulsating current, at varying powers

Sailors handling the sweep wire.

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to simulate various sizes of ship. created a magnetic field similar to that of a ship and exploded the mine - hopefully, far enough away to avoid damage to the MCM vessel.

Recently, the United States has developed a method of using helicopters for clearing magnetic mines - not the least advantage being that there is no danger of an exploding mine damaging the heliconter

Pressure mines have proven very difficult for the defence to neutralise. The simulation approach - exploding the mine by simulating the pressures of a passing ship - is impracticable. The only known practicable way of dealing with the pressure mine is to locate by sonar each mine and destroy them individually.

Acoustic mines can be neutralised by simulating the noise of a passing ship.

To complicate further a situation in which the defence must be able to cope with a number of different problems, ground mines can be "multi-influence" mines. That is to say, a ground mine can be exploded both magnetically and acoustically. There can be multi-count mines they do not explode the first time

THE NAVY

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KINGHORN ST, NOWRA, NSW Telephone: Nowra 2 0316 they are activated, but only on the second or more times a ship activates them.

Whilst mines can be laid easily, cheaply and by relatively unsophisticated navies, MCM has become complex and expensive. Limited funds for MCM must be used to ensure the ability to deal with all types of mines.

The large number of minesweepers constructed by the Democracies, as a result of the painful lessons of the Korean War, are now approaching the end of their useful lives. At the same time, the Totalitarian countries have shown an awareness of the potential of the mine, and the United States demonstrated only two years ago the prohibitive effect mines can have upon maritime trade.

The coincidence of these three events has led the Democracies to consider carefully the next generation of MCM craft and the methods they will use to neutralise mines.

So far as craft are concerned, two USN has possibilities have been considered copter (A - surface craft and helicopters. The problem.



An Oropesa float being lowered over the side. This float supports the diverter (kite or otter) at the end of the sweep wire.

THE NAVY



The shape of things on the way; a model of the Vosper Thornycroft 47 metre minehunter, showing the wide variety of gear carried; more versatile and more expensive. The two Sperry Cats are stowed with their own davits just abaft the funnel; abreast the Gemini dinghy is a decompression chamber and abaft this is the stowage for minedisposal weapons (over the winch). Seamen will be glad to see that there is still some clear deck-space.

USN has apparently chosen the helicopter (AMCM) as a solution to the problem. Her force of surface MCM that both MCM and AMCM were needed to clear the mines the US had laid in North Vietnames waters.

> This operation — known as End Sweep — was made easier by the US having laid the mines in the knowledge that they themselves could be required to clear them. The mines laid were of a type — magnetic and/or acoustic — that can be cleared by helicopters. The surface MCM craft were needed to clear mines of the same types in deeper waters.

> The United States MCM Force assigned to Operation End Sweep comprised about thirty AMCM helicopters, and ten ocean minesweepers. The task took six months to accomplish. Two LPDs (landing ships dock with helicopter pad) and one LPH (helicopter carrier) were required to support the helicopters. One elderly LST, modified for maintenance duties, was all that was required to support the minesweepers.

The Europeans seem to have opted for the surface MCM craft. They were the first to develop the use of the "sonar" method of mine clearance. This system, known as Minehunting, is practicable for clearing all known types of ground mine. It was first tried out at sea more than a Wishing Every Future Success to the Navy League from

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The operations room of a minehunter at work. A high definition sonar (not visible) gives a television-like picture of mines found on the bollom, and enables the ship to direct a diver to the correct area.

decade ago in the specially con- their original minesweeping equipverted minesweeper HMS Shoulton. To utilise the potential offered by

this system, the British and other Western Democracies have converted a number of minesweepers to the minehunting role.

As a result of further development work on the minehunting activity. the French now have operational at sea (in FS Circe and her sisters) a considerable improvement on the British method of launching a rubber dinghy with a sonar reflector beneath. The British direct the dinghy by radio to the target. The mine is then buoyed and divers dispose of it by explosive charges. The new French system removes the need for men in the actual disposal operation.

Australia's position in all this is one of woeful inadequacy, in terms of numbers sufficient to deal with today's threat related to the number of points at which the mine threat can be implemented, coupled with maintaining the skills we have until technical developments and operational experience in Europe and North America clarily which MCM methods would be most satisfactory for Australia in the future.

We now have four MCM vessels, Two of these, HMA Ships Snipe and Curlew, are fully fitted with the British type minehunting capability The other two, Ibis and Teal, retain

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ment - to clear moored, magnetic and acoustic mines. Normally, three ships are operational whilst the fourth refits.

The Government has just made

the decision to scrap two further minesweepers. It has been estimated by Vice-Admiral Sir Richard Peek ("The Navy", November-December-January, 1974-75) that the four remaining craft will need replacement by 1977

Clearly, a decision is necessary as to the type of MCM craft the RAN needs to replace her elderly existing vessels. The RAN will have to choose between the North American (AMCM) approach and the European development of the surface based (SMCM) system.

The AMCM cannot yet cope with all types of mines, is cheaper and can move to mined areas very quickly, but requires much greater support effort "in the field". The new European glass reinforced plastic hulls require minimal maintenance. can cope with more types of mine. and require less "field" support than AMCM. However, each unit is more expensive in initial outlay. It is unlikely there will be sufficient funds for the RAN to adopt both systems.

Whichever system the Navy chooses one thing is clear - the mine is a threat to Australia, not only in another fifteen years but today



A diver operating from a Gemini dinghy, prepares to dive on a mine.

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31 ERNEST STREET, NOWRA, NSW Nowra 2 3344 Private: Nowra 2 2777	29 ERNEST ST, NOWRA, NSW Phone: Nowra 2 2983	THE LONG WAY By Bernard Moltessier Translated by William Rodamor	The book is written in diary lorm and the lirst three parts of the book, dealing with his journey round the three capes, is fairly dreary, written	continuing non-stop, towards the Pacific Islands because I am happy
NOWRA RADIO TAXIS Navy Personnel, for Prompt and Efficient Service Call NOWRA RADIO TAXIS on 2 0333	SHOALHAVEN SIGNS • Truck Lettering and Lining • Illuminated Signs • Outdoor Advertising • Screen Printing • Pictorials Phone: Nowra 2 0534 If Unanswered Call 41 5283 PRINCES HWY, SOUTH NOWRA, NSW	252 Pages including Glossary, Appendix and Eight Pages of Photo- graphs Published by Adlard Coles Ltd, London, 1974 Review by "Ikara" Our copy supplied by Hicks Smith & Sons Pty Ltd, 301 Kent Street, Sydney Oh no! Not another book about a lone long-distance yachtsman! This sounds unfair and it is by no means meant to denigrate the skill or courage of the author, but it must be	in an intense style which I found frankly irritating. The best sections are his reminiscences of his life sailing a junk in the Gulf of Siam. After rounding Cape Horn, instead of heading north to England to finish the race, he set off across the South Atlantic, rounded Cape Horn again and headed for Tahiti. The reasons why he decided to do this are not made clear at the time — he SUBSCRIPS	soul." What is particularly interesting about the book is the appendix. The yachtsman will find his notes on sails used, masts, rigging, self-steer- ing gear, gales, freak waves, celestial navigation, equipment, clothing, food, maintenance and a variety of other subjects most informative. Almost the best part of the whole book, in fact.
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SHOALHAVEN HEADS HOTEL MOTEL FISHERMAN'S PARADISE Beers — Old, New and Resch's Situated on River and Seven-Mile Beach Horse Riding and Boats for Hire Phone: Nowra 48 7125 G. D. MATTHEWS RIVER RD, SHOALHAVEN HEADS, NSW	SOUTHERN POINT CO PTY LTD Manufacturers of • Top Quality Paint Coatings • When Quality Counts, you can Count on Southern Paints 54 BERRY ST, NOWRA, NSW Naval Personnel Enquirles: Telephone: Nowra 2 3379	you had to do was leave from any English port between 1st June and 31st October and return to it after rounding the Cape of Good Hope, Cape Leeuwin and Cape Horn. Moitessier decided to enter, hoping to win a prize, noting that "the rules did not specify that we had to say thank you." Rather churlish! Why was he so inconsed? Did he expect his way to be crowded by hosts of solitary yachtsmen (all writing books, no doubt? He never really explains, although we learn more ahout him as the book progresses.	Date(Please Please make cheques, postal orders or Leagee". Subscriptions commence in January of o notice is forwarded to current subscribe Dollars) within Australia S2 — Beyons (air mail). *Persons within Australia common magazine during the quarter commen should remit \$3.50; JULY (sub for 1% y	each year and a subscription reminder rs — Annual Subscription (Australian d Australia 53.70 (sea mail) — 56.70 noing subscriptions to "The Navy" cing APRIL (is, sub (or 1%) years)
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#### Introduction

Australia is the world's largest island and, indeed, may be regarded as a continental island. It measures 2500 miles from west to east and 2300 miles from south to north. Its area is about the same as that of the United States, some 3,000,000 square miles, with a 12,200-miles coastline. Most Australians, about threequarters of the total 12.000.000. live on the eastern, south-eastern, and south western seaboards, within 100 miles of the coast. The seven coastal capital cities hold 56% of the population -Sydney and Melbourne engrossing 40%. The remaining quarter of the population is distributed irregularly throughout the rest of the country. Most of the central portion is arid and with a very small population

Australia is immensely rich in natural resources, especially minerals and its capacity to grow food and fibres. It is not only predominantly self-sufficient in food but also one of the world's leading exporters of grains, meats and fruits. The country is also selfsufficient in most minerals of economic importance. Recent discoveries have shown Australia to be one of the world's major sources of iron ore, and now, after fruitless searches for several decades, oil has also been discovered in payable quantity.

Australia has made a real effort to modernise its economy and has channelled its important resources productive sectors of the economy.

foreign exchange on exports of wool. wheat and other agricultural products to the United Kingdom and Europe, Australia now has greatly expanded its trade in minerals manufactured goods, and other industrial products, its traditional dependence on Britian as the source of capital and markets has lessened in recent years, and the United States and Japan now play key roles in its economy. Especially Japan has replaced Britian as Australia's best export customer.

Because Australia is an island, and heavily dependent on foreign trade for its well-being, all but a tiny fraction of that trade is by sea. The country, therefore, is rather sensitive to the expansion of hostile sea powers in the adjacent waters. and the safety of its lines of communication in those areas.

The Australian population is almost exclusively European. Its growth rate is 2% per year, about half being immigrants. Sparsity of population is probably the only limiting factor on its role as a potential great power. With a population of only 12,000,000 living in an area of 3,000,000 square miles. Australia clearly cannot expect to be independent in national security. It the continent were adequately populated and its natural resources fully developed. Australia would not today be a small country requiring on Singapore was strongly defended. the protection of some other major DOwers.

Australia is an accident of geography and European and skilled manpower into the most colonialism. Australians are so often puzzled by debate as to Until very recently, it has attracted whether they are "in" or "out" of large amounts of private loreign Asia, "part of" or "near" the region. capital because of its more advanced Australia is remote from the nearest technology, large untapped natural major friendly power, and succesresources and a government that sive governments since tha colonial encouraged private enterprise, period have been sensitive to the

THE NAVY

Australia's Minister for Delence. the Honourable Lance Barnard.

> vital interests are inescapably associated with Asia yet it is not only primarily a European society but also basically committed to the preservation of a homogeneous European population. This may be considered as a paradox to Australia.

#### **Historical Background**

MP

In the years between 1787 and 1918, Australia was almost entirely dependent on Great Britain for its defence. It had few foreign policy interests other than maintaining close economic and political ties with the mother country, Great Britain, After the First World War and during the 1930's, Japanese expansionist activities in North-east Asia were noted with concern, but as long as the British Navy dominated the South China Sea and the British base Australians still felt no fear for their own security.

Australia might have succumbed to a Japanese attack in 1942 had it not been turned into a base for the build-up of American forces in the Pacific region. The fall of Singapore in February, 1942, shattered Australia's confidence in British protection and prompted a re-evaluation of its foreign and defence policies. The Second World War thus had a Hitherto largely dependent for strategic situation around them. Its profound influence on the thinking

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SCOTT BROS Steel Erectors — Field Welding — Machinery Moving — Demolition 39 ASQUITH STREET NAILSWORTH, SA 5083 Telephone: 44 4846 For Free Quotes	Fountain Motel Pty Ltd (D. R. & O. M. DIX) Modern Self-Contained Units — Lounge and Dining Room — Fully Air-conditioned — Television in Rooms — Swimming Pool — Ski Boat for Hire — Telephones in All Rooms RENMARK AVE, RENMARK, SA Telephone: Renmark 86 6899	of Australian leaders and caused them to seek protection from other quarters in the postwar period. This role naturally fell to the United States. Because of its position in the southern hemisphere and its size of continental proportion, Australia would have had more reasons to adopt a non-alignment policy after the Second World War than any other nation. However, Japanese penetration to its doorstep in 1942 reminded the country that a "fortress Australia" policy, based only on its own small population	with its allies. Australians first placed their hopes on SEATO; although geographically speaking their country did not form a part of this region, they eagerly signed the Manila Pact. However, the achieve- ments of SEATO failed to satisfy their earnest hopes, and so they suggested that SEATO should take NATO as a model, create a standing military force and establishing a permanent high command. But the United States opposed these con- cepts from the very inception of that organisation. Nevertheless, Australia was not	The need to maintain the tional relations with Britain ha never in doubt. But to Au recent changes affecting its r with that country had a traumatic effect. To an old m of the British Common located on the periphery of east Asia and long used to the given by the British presence around the area, these change been both sudden and far-reac Australia had stationed for Malaysia and Singapore 1950 s. This forward d
AMPOL ROAD HOUSE (R. J. & D. M. MOLD) HIGHWAY ONE, PT AUGUSTA, SA Tasty Meals Available 24 Hours a Day — Ampol Petrol and Ampol Driveway Service and Courtesy Telephone: Port Augusta 42 2992 We Never Close	The staff and Neville and Noreen welcome you to the <b>GOLDEN GRAIN HOTEL</b> The Best of Beer, Wine and Spirits Excellent Accommodation <b>RAILWAY TCE, PINNAROO, SA</b> Telephone: Pinnaroo 9 for Reservations	and limited military capability, could not provide an adequate protection against any powerful and determined enemy. During the early postwar years, as worry about a resurgence of Japanese power continued. Australia sought a defence arrangement with the United States. The ANZUS treaty, signed in 1951, was the price it asked for its consent to a Japanese peace treaty. At about the same time, Aus- tralia began to show concern over the threat of a united and hostile China under communist dictator- ship. Thus, when the United States	daunted by the reluctance of its allies. As an evidence of its interest in contributing to the collective security of the Asian/Pacific region, the country sent troops to Korea in 1950 and to Vietnam in 1965, besides having helped in a Common- wealth effort in the 1950's to put down the communist insurgency in Malaya. In short, even though Aus- tralia was relatively removed from the principal threat to its security in the decades of the 1950's and 1960's, it maintained a forward defence posture in the Asian rimland because it considered that a South-	not only disengaged from V but has also taken up a new p in Asia. In Australia, the pros
BOOLEROO CENTRE HOTEL Mine Host: JOE ARBON Cold Beer and Warm Cheer ARTHUR STREET BOOLEROO CENTRE, SA Telephone: (086) 67 2104	Newitts Machinery Sales Agents tor: GMH Holden, New Holland Machinery, Nelson Machinery, Chamberlain Tractors and Machinery 26 BRANDIS STREET CRYSTAL BROOK, SA 5523 Telephone: Crystal Brook 36 2257 AH: 36 2114	proposed in 1945 that the interested countries form a South-east Asia Treaty Organisation (SEATO) to pre- vent the spread of communist power in the area, Australia was among the first to respond affirmatively. Generally speaking, Australian strategic concept in the 1950's and 1960's had two central propositions: (1) The extension of hostile influence and control over wide areas of South-east Asia, particul- arily by militant communist, would create a situation that would under- mine the security of the countries in the region and pose a threat to Aus-	east Asia dominated by communists would eventually endanger its own security. Theoretically, Australian foreign relations in this period resembled an equilateral triangle. It had three sides and each represented almost the same importance. In other words, Australia had to cultivate and maintain good relations simul- taneously with the United Kingdom, the United States, and the non- communist Asian countries. Accord- ing to its judgement, success in all three directions would be an essential condition for long-range security.	particularly from South-eas has raised questions more mental than those concerne redefining strategic objective Conservative Governe defence and foreign p appeared to be in disarray, as
BROKEN HILL LEGION CLUB LTD Interstate Visitors are Eligible to Become Honorary Members of the Above Club during their Stay in Broken Hill This is a unique opportunity to see the social life Entertainment Galore CRYSTAL ST, BROKEN HILL, NSW Telephone: 4064	Best Wishes from PARACHILNA HOTEL Cold, Creamy Ale Always on Tap — Warm and Friendly Atmosphere Further Enguirles Telephone Parachilisa 1 and Ask for Mac PARACHILNA, SA	tralian strategic interests. (2) A South-east Asian region comprised of free and independent states working effectively in a secure environment on economic, political and social advancement is essen- tial to prevent the spread of hostile power, and to promote international order and progress. According to this point of view, it was evident that Australia's first line of defence had to be beyond its immediate environs. The main purpose of the so called forward strategy was to protect its outer defence perimeter in co-opporation	Recent Changes The Australian Conservative Government was often accused of having no foreign policy, because it seldom made a definitive statement of overall policy, preferring to take a fairty pragmatic line as affairs developed. The Australian public, however, generally approved the Conservative policy line until the early 1970's. The situation then changed radically and unpredict- ably, and the Conservative Govern- ment found itself confronted with many difficult problems.	Government. The major adv which the Liberal-Country



lying the national policy of the Labor Government has been that Australia has been served increasingly poorly in recent years by adherence to cold war postures. The Whitlam Government, therefore, has placed maior emphasis on terminating activities which appeared to be intensifying confrontation and intervention rather than bringing about stable order and co-operative relations in the Asian/Pacific region.

There has been an unmistakable dischantment with its alliances, but the Labor Government has not been prepared to make radical changes. although it is very clear that the country would be thrown back on its own resources more than at any time in the past. Mr Lance Barnard, the Labor Minister of Defence, once said: "Most certainly, military and technical aid must be extended and expanded to our friends in Asia, in association with a greatly expanded civil aid programme, but we insist that Australia's defence and its commitments are best assured by the concentration of the bulk of its defence forces on the Australian mainland "

Isolationism remains an understream in Australian politics. There are Australians, including some in high places, who would like to pull back to "Fortress Australia" abandon aid to Asia, build a nuclear deterrent, and put up "Keep Out" signboards around its shores. However, most Australians still accept that their country cannot contract out its Asian environment. and that the security of Australia would be best ensured by the development of political stability and economic prosperity in its neighbourhood

#### SEATO and ANZUS

SEATO has been a target of the Labor Party's criticism for a long time. It is viewed principally as a military organisation and was described as "moribund" and irrelevant" by Mr Whitlam during his election campaign. However, the Labor Government has not vet moved to withdraw Australia from

The fundamental rationale under- decrease its participation of military activities.

> Australia's two principal formal. alliances are SEATO and ANZUS. As SEATO's life expectancy is clearly limited, what about the future of ANZUS? Although it was created originally to assuage Australian and New Zealand fears of a resurgent Japan, ANZUS has established a much broader, and seemingly more secure, assurance of American assistance against aggression. The importance of ANZUS is growing markedly as the British phase out their forces in Malaysia-Singapore, and as Australia's destiny becomes more dependent on American policy in the Western Pacific. A withdrawal of American power from South-east Asia, while it would be deeply regretted, would not be catastrophic. Australia could accept a decline in its SEATO relationship with the United States because it has ANZUS to fall back on

However, recent developments have demonstrated two important facts: (1) Until recently, the Australian Government and public opinion have placed unrealistically high expectations on the American alliance, as if the alliance were a substitute for the effort of formulating their own foreign policy. (2) Since the announcement of the Nixon Doctrine, it has been obvious that the United States is going to be less ready to enter into military involvement abroad than in the past 20 vears.

Nevertheless, ANZUS is still the primary alliance in Australian eyes. The Labor Government has stated that it seeks "close and continuous co-operation with the people of the United States and New Zealand to make the ANZUS treaty an instrument for justice, peace and political, social and economic advancement in the Pacific area." This indicates that the Whitlam Government has chosen to retain the alliance with the United States through the ANZUS Pact as the basis of Australian security. Certainly this alliance continues to come under attack from the left and doubts are also the organisation because it could be cast on its value from the right. Howdone only at the cost of consider- ever, there is such broad consensus able displeasure in Washington., of Australian public opinion in What seems more likely that it will favour of maintaining the ANZUS stress the social and economic alliance that any abrogation on Ausaspects of the treaty and gradually tralia's part seems most unlikely.

This is not to say that neither the nature of Australian-American relations nor the value of the treaty will change in the foreseeable future. There is inevitably uncertainty in any assessment of American intentions a considerable period ahead. On the other hand, some changes in Australian attitudes regarding international affairs have not found favour in Washington, but unless some radically new departures from existing foreign policy are made, the prospects are that Australia will continue to enjoy close and friendly relations with the United States.

#### **Future Threats**

There is no apparent prospect that any country would launch an invasion toward the Australian mainland for many years to come. Few countries would have an incentive to do so, and probably only two of them, the United States and the Soviet Union, would have the capability. Australia is a long way from the major powers in the world. and a good deal of water has to be crossed to get there. This is why Mr Barnard has every reason to say: "In the foreseeable future it is impossible to conceive of any significant external threat to Australia."

However, the relations with four countries could give cause for Australian concern during the next 10 or 20 years. They are Japan, Indonesia. Communist China and the Soviet Union. Although it is widely agreed that there is no immediate threat to Australia's security, the situation on the remote future remains unpredictable.

To Australians, Japan is always a great enigma as well as a potential threat. Despite Japan's crushing defeat in 1945, the nation has rebounded to a position of economic pre-eminence in the Asia-Pacific region, and third only to America and Russia in the world. Japan also has become Australia's leading trade customer, chiefly in raw materials for its massive secondary industry.

Japan's potential military power should not be underestimated. It already has the eighth largest defence budget in the world. It is once again becoming a naval power of some consequence. Moreover, it could become an operational nuclear power in a relatively short

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#### CONTRIBUTIONS INVITED. WATERVALE HOTEL With compliments end best wishes to all Naval Personnel from (Gien and Margaret Virgo, Props) WARWICK NURSING HOME Counter Meals Twice Daily, Six Days a Week The Editor does not had to self responsible for managing to though Smorgasbord Dinner Friday and Saturday made to reflere those with whice extremed and addressed envelope is enclosed (T. R. P. & L. M. BLUNDELL) Evenings — Modern Accommodation **49 KING WILLIAM ROAD** time. So it is not surprising that a very small industrial capacity its vacuum created by the withdrawal MAIN NORTH ROAD UNLEY, SA population is almost 10 limes of British power from the Indian some Australians are fearful of the WATERVALE. SA 5452 greater than that of Australia, Under Ocean, Russia has become the chief growth of Japanese economic and Telephone: 74 2751 military powers. They believe Japan a different government and with external power in the area. In short, Telephone: Watervale 9 is engaged in economic imperialism some outside help. Indonesia could the Soviet Union, with its rapidly now, and that military imperialism develop an aggressive foreign policy growing political, economic and will follow inevitably. at any time in the future. military interests east of Suez, has However, at present and for the Australians have been usually changed Australia's strategic situ-Best Wishes to All Servicemen from the **EVANS DEAKIN INDUSTRIES LTD** foreseeable future, Japan and Aussensitive to the ambition and ation, if as yet only slightly. tralia are, and will be, far too interinfluence of Communist China, By The increasing threat in the Indian **TEROWIE HOTEL** dependent economically to become 1971, however, the United States. Ocean, however, has not meant that Structural and General Engineering Machine military competitors or enemies. On which once regarded Communist Australians feel it is as important as Shop . Slipway and Patent Slip to 1500 tons . 24 (Prop: ARTHUR SMITH) the other hand, these two countries China as a major threat, had begun the northern waters or the Southhour Ship Repair Service . Hire Plant Available have reasons to consider at least to look for ways of coming to terms west Pacific. Yet in some ways the Call in for a Cold Beer and a Very Warm Welcome joint protection of the shipping with it. Afterwards, as one of its first Indian Ocean deserves more attenis Always Assured Ross Street, South Townsville, Old, 4810 tion than the Pacific. The US routes between them, or even some changes in foreign policy. Aus-Call in at Seventh Fleet patrols the latter, but co-operation in defence production. tralia's Labor Government estab-For Australia, a real security threat lished its diplomatic relations with there are very few friendly naval Phone: 71 4067 MAIN ST. TEROWIE, SA emerged from the growing the Peiping regime in 1973. forces in the former. Nearly half of ambitions of Sukarno's Indonesia in However, this did not diminish the Australian overseas trade traverses AH: 79 3560. Telegrams: Devan, Townsville threat of Communist China in any the Indian Ocean. The immense the late 1950's and early 1960's. The **Telephone: Terowie 12** Indonesian Communist Party came mineral resources in Western way. close to gaining control of that Until Communist China has a Australia, together with the rapid country. In this area, the 400 miles larger navy than at present, it is industrialisation of that State, have unlikely to pose any direct threat to given the western coast a strategic separating these two nations indeed Kindly sponsored by.... F. Watkins (SA) & Co the Australian mainland. But the significance it never had before. appears to be a very short distance. Following the Indonesian Army's situation could change during the At the Crossroads FRICKER CARRINGTON SHIPS CHANDLERS & PROVIDORES rise to power in 1966, confrontation next one or two decades. At least in Australia's approach to interthe near future. Australia's deep against Malaysia was officially national and security problems **Group of Companies** ended. Australia thereafter estabconcern still will be the situation of traditionally has been character-Agents for Navy Charts & Publications lished friendly relations with the new South-east Asia. The more the ised by reliance upon large and **Building and Civil Engineering Contractors** Suharto Government and provided Russians develop their influence powerful friends and a willingness. it with substantial economic assisthere, the more are the Communist within this relationship, to prove **65 ST VINCENT STREET** tance Chinese likely to react. The compeitself a loyal and faithful ally. Now a **388 CARRINGTON STREET** tition between these two red giants The Whitlam Government has PORT ADELAIDE, 5015 new situation is emerging and the **ADELAIDE, SA** could be as dangerous as the cochosen to lay special emphasis on · Telephone: 47 5900 traditional concept is seen as Australia's role as a regional operation between them. illusory. No nation can, any longer, Telephone: 223 1733 After Hours: 47 4631 partner. This policy has induced the Prior to the Second World War, Ausdepend on SEATO, nor even on tralia was not regarded with any development of active co-operation ANZUS, and much less on UNO. great interest by the Soviet Union. with Indonesia in terms of the supply Put in the simplest terms, Aus-The advances of military technology of military equipment, the exchange tralia is at a crossroads. The of information, the provision of since 1945 have changed this situchanges in international environ-With compliments of .... reciprocal military training faciliation dramatically, because missiles ment are not welcome and pose fired from a submarine in the Indian ties, and the conduct of joint naval difficult problems for Australians. WESTERN AUSTRALIAN EGG exercises. While many of these Ocean are now capable of reaching The substitution of self-reliance for activities actually had begun before Soviet areas that once were thought reliance cannot be easy. But the **MARKETING BOARD** Mr Whitlam came to office, his clear to be invulnerable. Hence, the country must adjust itself to external policy of treating Indonesia as Aus-Indian Ocean's waters are today of changes, even though the multipolar tralia's most important neighbour Contractors to the Royal Australian Navy great importance to the Soviet system in international politics can and regional partner, together with Union, and so too are the countries prove difficult for all the smaller e Western Australian Golden eggs are better than ever Indonesia's wishes for closer bordering them. countries. So far as Australia is relations with Australia, are likely to The rise of the Soviet sea power concerned, the key issue will be how lead to an increase in the co-operand the deployment of its naval it should align itself in the triangular **Telephone: 39 1011** ation between these two nations. units to the Indian Ocean has introcontest between the United States, Nevertheless, the potential threat duced a new element into Austhe Soviet Union and Communist

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remains. Though Indonesia has only

China.

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tralia's strategic calculations. In the



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