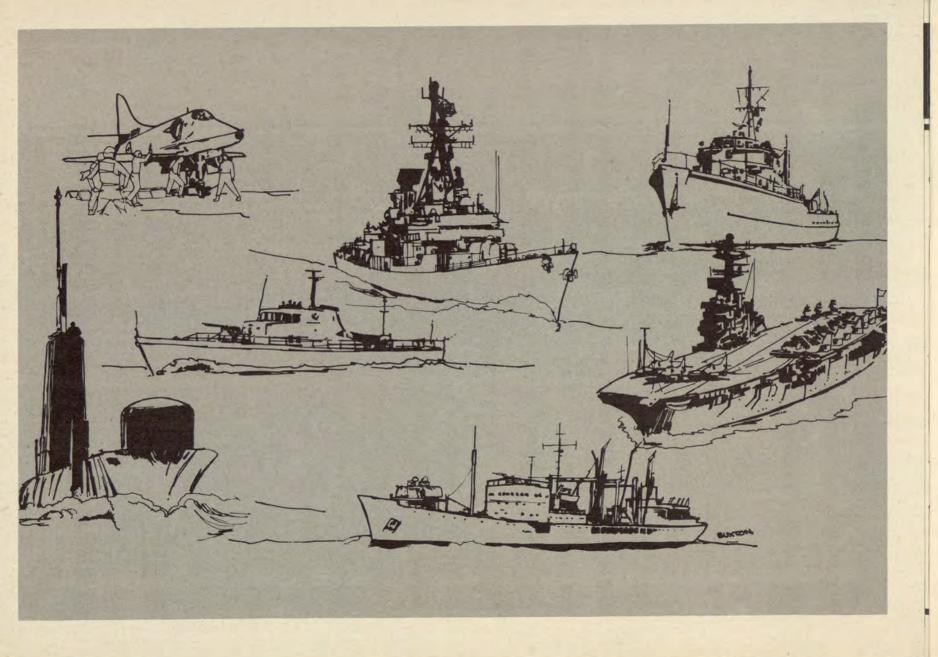
NAVY TODAY





A growing Navy

The Royal Australian Navy has been going through a period of rapid expansion and modernization with stepped-up operational capability.

During the past decade, the Navy's manpower strength has increased by more than half. The Flagship HMAS *Melbourne* has been re-equipped with a new generation of aircraft for the strike, air defence, anti-submarine and reconnaissance roles. The destroyer force has been modernized and in the 1980s will have added to it powerful new destroyers built for Australian conditions.

An Australian submarine arm has been re-established with four, soon to be six, of the most efficient conventional submarines in service. Twenty fast patrol boats have joined the Fleet and are on station in Papua-New Guinea and in Australian waters.

A number of support and research ships, as well as the new destroyers, are on the drawing board or under construction.

The Navy needs to build a balanced and viable fighting force if it is to meet its wide commitments to national security in the years ahead. The responsibilities include:

- Building a force capable of timely and sustained combat at sea;
- Establishing superiority in areas needed for naval operations including protection of lines of communication;
- Conducting naval reconnaissance, anti-submarine warfare, shipping protection and hydrographic and oceanographic surveying;
- · Providing naval support for land operations;
- · Providing sea transport for military operations; and
- · Defending ports and anchorages.

The ships and aircraft to perform these tasks are described on the following pages.



Name	No. Builder	Laid First Com- Down Launched missioned				
MELBOURNE	21 Vickers-Armstro Barrow-in-Furne	ong 15/4/43 28/2/45 28/10/55 ess				
	Displacement	20,000 tons				
	Length 701.5 ft					
	Beam	80.2 ft				
	Armament	12 (4 twin, 4 single) 40/60 mm Bofors				
	Machinery	Parsons single reduction geared turbines, 4 Admiralty 3-drum type boilers				
	Speed	More than 20 knots				
	Ship's Company	1,335 (includes 347 Carrier Air Group personnel)				
	Aircraft	Douglas Skyhawk A4G jet fighter-bombers				
		Grumman Tracker S2E ASW aircraft				
		Westland Wessex ASW heli- copters				
		Westland Wessex SAR heli- copters				

Aircraft carrier

The light aircraft carrier HMAS *Melbourne* is the Royal Australian Navy's flagship.

With her Skyhawk, Tracker and Wessex aircraft, *Melbourne* combines aerial defence of the Fleet with her anti-submarine role.

She also has a formidable strike capacity which was strengthened with the recent purchase of additional Skyhawk aircraft.

When carrying extra Skyhawks the carrier will control a significant strike force which can be directed against either maritime or shore targets and can give ground support to the Army.

Melbourne embarked her present generation of aircraft in 1969 after an extended refit which included modifications to aid flying and aircraft handling.

In 1971 the ship received a rebuilt catapult, strengthened flight deck and other changes.

Melbourne was laid down in 1943 as HMS Majestic, at the same time as HMS Terrible (now HMAS Sydney) and was launched in 1945.

With the end of World War II, work on *Majestic* stopped pending a decision on future requirements. Arrangements were then made for the ship to be taken over by the RAN and renamed HMAS *Melbourne*.

Construction resumed in 1949 with modifications including increasing the size of the flight deck lifts to handle larger aircraft and later fitting an angled flight deck, steam catapult and mirror landing system.

Melbourne was commissioned into the RAN on 28 October 1955 and after working up in British waters with her Sea Venom and Gannet aircraft she sailed for Australia, arriving in Sydney on 9 May 1956.



Name	No.	Builder		Laid Down	Launched	First Com- missioned	
PERTH	38	Defoe Shipbuildi Co Bay City Mich	-	21/9/62	26/9/63	17/7/65	
HOBART	39	Defoe Shipbuildi Co Bay City Mich	-	26/10/62	9/1/64	18/12/65	
BRISBANE	41	Defoe Shipbuildi Co Bay City Mich	-	15/2/65	5/5/66	16/12/67	
	1	Displacement	4,5	00 tons			
	ı	ength	437 ft				
	Armament 7		47 ft				
			Two 5-in automatic rapid fire guns. Tartar anti-aircraft guided missile system. Two Ikara anti-submarine missile systems. Two sets triple mounted anti-submarine homing torpedoes				
			Two GE geared steam turbines driving two shafts				
	5	Speed	Мо	re than 30	knots		
	5	Ship's Company	333				

Guided missile destroyers

The three guided missile destroyers—HMA Ships Perth, Hobart and Brisbane—make up the RAN's First Destroyer Squadron.

The US-built ships are similar to the US Navy's DDG-15 class and their design is particularly versatile.

Their main task is air defence of the Fleet, but they also have formidable anti-submarine and surface gunnery capabilities.

The principal aircraft defence weapon is the Tartar guided missile system which is mounted near the stern.

The DDG's are also fitted with two Ikara missile launchers. This long-range anti-submarine system is Australian-designed and developed. The missile is automatically guided to the vicinity of a hostile submarine where a torpedo is released by parachute to home on the target.

The ships are fitted with modern long-range sonar, radar, communications and electronic equipment to provide the command with comprehensive information.

Living spaces are air conditioned.

All three ships saw action in Vietnam where they served with distinction with ships of the US Navy's 7th Fleet.

From 1972 the ships (beginning with *Hobart*) are scheduled to return to the United States in turn for gun-mount modernization.

Perth, Hobart and Brisbane are the names of former RAN cruisers.



Name	No. Builder	Laid First Com- Down Launched missioned					
VENDETTA	08 HMA Naval Doc Williamstown	kyard 4/7/49 3/5/54 26/11/58					
VAMPIRE	11 Cockatoo Island Dockyard Sydne	.,.,,,.,					
DUCHESS	John I. Thornyc and Co Southha						
	Displacement	3,600 tons					
	Length	390 ft					
	Beam	43 ft					
	Armament	Six 4.5 in dual purpose guns in twin turrets, two forward, one aft. Six 40/60 mm Bofors guns. Triple - barrel anti - submarine mortar.					
	Machinery	Parsons double reduction geared turbine, driving two shafts					
	Speed	More than 30 knots					
	Ship's Company	321					

Destroyers

The Royal Australian Navy's Second Destroyer Squadron is made up of the Daring Class destroyers HMA Ships Vendetta, Vampire and Duchess.

These all-purpose warships have main gunnery armament comparable to a light cruiser, giving them formidable surface gunnery as well as anti-aircraft capabilities.

Anti-submarine detection equipment and weapons increase their versatility.

Though based on the same general design, *Vampire* and *Vendetta* were built in Australia, while *Duchess* was built in Britain.

The three ships are all-welded and light alloys have been used extensively in their construction to reduce weight.

In 1969, Vendetta became the first Australian-built warship to serve in Vietnam. She had the distinction, as a result, of being the first Daring Class destroyer to engage in the role for which the ships were primarily built—naval gunfire support.

Half-life modernization of *Vampire* and *Vendetta*, which began in 1970, included fitting new gun turrets, fire control systems, new aircraft warning and navigation radar, re-equipping the operations centre, enclosing the bridge and replacing a major part of the superstructure.

Communications equipment was renewed and living conditions on board considerably improved.

The original Vampire and Vendetta served with distinction in the 10th Destroyer Flotilla, known as the "Scrap Iron Flotilla", in World War II.



Name	No.	Builder	Laid First Com- Down Launched missioned				
YARRA	45	Williamstown Dockyard	9/4/57 30/9/58 27/7/61				
PARRAMATTA	46	Cockatoo Island Dockyard	3/1/57 31/1/59 4/7/61				
STUART	48	Cockatoo Island Dockyard	20/3/59 8/4/61 28/6/63				
DERWENT	49	Williamstown Dockyard	16/6/58 17/4/61 30/4/64				
SWAN	50	Williamstown Dockyard	18/8/65 16/12/67 20/1/70				
TORRENS	53	Cockatoo Island Dockyard	18/8/65 28/9/68 19/1/71				
	[Displacement	2,700 tons				
	ı	ength	370 ft				
	E	Beam	41 ft				
	-	Armament	Two 4.5 in guns in twin turret controlled by digital fire control radar and computer. Seacat anti-aircraft missile system. Ikara anti-submarine missile system. Triple-barrel anti-submarine mortar				
	٨	Machinery	Geared steam turbines 30,000 shaft horsepower				
	S	peed	More than 30 knots				
	S	hip's Company	250				

Destroyer escorts

The Royal Australian Navy has six Australian-built destroyer escorts forming the Third Australian Destroyer Squadron.

The newest ship *Torrens* and her sister ship *Swan* incorporate many design changes made in the four earlier River Class ships *Derwent, Stuart, Yarra* and *Parramatta*.

All the ships are armed with twin 4.5 inch guns which are used with digital fire control radar and computer.

The guns can be used for shore bombardment or can provide fire power against air or surface targets.

Close-range air and surface defence is provided by the Seacat missile system which is controlled by a separate radar and computer.

The Seacat missile system was developed in Britain and has been adopted by a number of navies.

A submarine threat can be met by using either the Australiandesigned and built Ikara anti-submarine missile system, or the triple-barrelled mortars carried on all the escorts.

Ikara is a rocket-propelled guided missile which carries a homing torpedo towards its submarine target. The torpedo is dropped into the sea by parachute and is then acoustically homed on the submarine target.

All the ships in the squadron except *Derwent* carry the names of former RAN destroyers and sloops.



Name	No. Builder	Laid First Com- Down Launched missioned
OXLEY	57 Scotts' Shipbu Greenock	ilding 2/7/64 24/9/65 27/3/67
OTWAY	59 Scotts' Shipbui Greenock	lding 29/6/65 29/11/66 22/4/68
ONSLOW	60 Scotts' Shipbu Greenock	ilding 26/5/67 3/12/68 22/12/69
OVENS	70 Scotts' Shipbui Greenock	lding 17/6/66 4/12/67 18/4/69
	Displacement	2,030 tons
	Length	295 ft
	Beam	26½ ft
	Armament	Six bow and two stern anti- surface ship and anti-submarine torpedo tubes
	Machinery	Two English Electric main propulsion motors, with two Admiralty standard range diesel generators
	Speed	Submerged speed, more than 15 knots
	Ship's Company	62

Submarines

Four Oberon Class submarines form the First Australian Submarine Squadron. Two more are on order.

Their value as an offensive weapons system is enhanced by their ability to operate in enemy-dominated waters for extended periods, without logistic support and without air cover.

The Oberons are long-range diesel-electric submarines which can move against surface ships or other submarines.

They are one of the most effective conventional types of submarines available today, and their quietness of operation makes them particularly difficult for an enemy to detect.

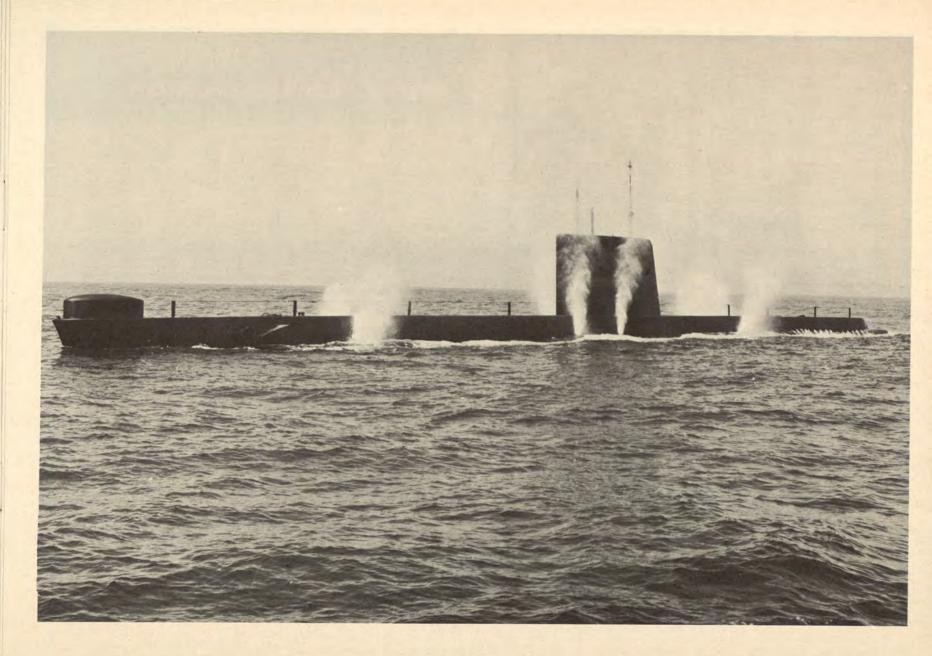
They are designed for silent running, and underwater equipment includes sensitive listening apparatus and an electronic fire control system.

All are fitted with a 'snort' system which enables batteries to be recharged while the submarine remains submerged.

They can dive to more than 400 ft and have a submerged speed of more than 15 knots.

The four craft are based at HMAS *Platypus*, Neutral Bay, Sydney. The *Oxley* and *Otway* are named after two earlier RAN submarines. The first of the new submarines on order will be named *Orion* to preserve long established links with the Royal Navy and because the constellation Orion is visible in the Southern Hemisphere.

The second new Oberon will be named *Otama* after the Queensland aboriginal word meaning dolphin—the submarines' symbol.



5.0		
Name	No. Builder	Laid First Com- Down Launched missioned in RAN
SNIPE	1102 Thornycroft, UF	K Jul. 51 5/1/53 11/9/62
CURLEW	1121 Montrose, UK	April 53 6/10/53 21/8/62
HAWK	1139 I. W. Richards,	UK June 53 17/9/55 18/7/62
TEAL	1152 Philip, UK	Jan. 53 28/2/55 30/8/62
IBIS	1183 Montrose, UK	Oct. 53 18/11/55 7/9/62
GULL	1185 Doig, UK	Aug. 54 1/7/54 19/7/62
	Displacement	480 tons
	Length	153 ft
	Beam	28 ft
	Armament	Two 40/60 mm Bofors gun (one on minehunters)
	Machinery	Napier diesel engines develop- ing 3,000 hp
	Speed	More than 15 knots
	Ship's Company	34 (minesweeper) 38 (minehunter)

Mine warfare ships

The First Australian Mine Countermeasures Squadron is made up of six Ton Class mine countermeasure ships.

Of British design and construction, the ships were modified in the UK before joining the Australian Fleet in 1962.

Originally all six ships were fitted as minesweepers, but *Curlew* and *Snipe* have been converted to minehunters.

The other four are fitted for mine sweeping.

They carry devices to explode acoustic and magnetic as well as contact mines. They can also detect and destroy other underwater obstructions which would be hazardous to shipping.

The wooden-hulled minesweepers are themselves non-magnetic and are sufficiently silent not to actuate acoustic mines.

Mine hunting is the latest advance in mine countermeasures and the re-equipped *Curlew* and *Snipe* are significant additions to the Australian Fleet.

Mine hunting is complementary to mine sweeping and is carried out in a different way.

Using a high definition sonar set, the minehunter locates mines ahead of the ship.

When a mine is located, clearance divers go into the water to identify it and decide whether to render it safe and remove it, or to blow it up with an explosive charge.



William .		Laid First Com-
Name	No. Builder	Down Launched missioned
ACUTE	81 Evans Deakin L	
ADROIT	82 Evans Deakin L	td Aug. 67 3/2/68 17/8/68
ADVANCE	83 Walkers Ltd	Mar. 67 16/8/67 24/1/68
AITAPE	84 Walkers Ltd	Nov. 66 6/7/67 13/11/67
SAMARAI	85 Evans Deakin L	td Dec. 66 14/7/67 1/3/68
ARCHER	86 Walkers Ltd	Jul. 67 2/12/67 15/5/68
ARDENT	87 Evans Deakin Li	td Oct. 67 27/4/68 26/10/68
ARROW	88 Walkers Ltd	Sep. 67 17/2/68 3/7/68
ASSAIL	89 Evans Deakin Lt	td Aug. 67 18/11/67 12/7/68
ATTACK	90 Evans Deakin Lt	td Sep. 66 8/4/67 17/11/67
AWARE	91 Evans Deakin Lt	td Jul. 67 7/10/67 21/6/68
LADAVA	92 Walkers Ltd	Feb. 68 11/5/68 21/10/68
LAE	93 Walkers Ltd	May 67 5/10/67 3/4/68
MADANG	94 Evans Deakin Lt	td Mar. 68 10/8/68 29/11/68
BANDOLIER	95 Walkers Ltd	Jul. 68 2/10/68 14/12/68
BARBETTE	97 Walkers Ltd	Nov. 67 10/4/68 16/8/68
BARRICADE	98 Evans Deakin Lt	d Dec. 67 29/6/68 26/10/68
BOMBARD	99 Walkers Ltd	Apr. 68 6/7/68 5/11/68
BUCCANEER	100 Evans Deakin Lt	d Jun. 68 14/9/68 11/1/69
BAYONET	101 Walkers Ltd	Oct. 68 6/11/68 22/2/69
	Displacement	146 tons
	Length	107 ft
	Beam	20 ft
	Armament	40/60 mm Bofors gun, machine
		gun and a variety of light arms
	Machinery	Two 16-cylinder diesels, pro- ducing more than 3,000 hp
	Speed	More than 20 knots
	Ship's Company	19

Patrol boats

Twenty patrol boats have been built in Australian shipyards for patrol and survey work in waters around Australia and Papua-New Guinea.

They are units of the First Australian Patrol Boat Squadron.

These all-weather, ocean-going ships have a variety of tasks, including the patrol of fishing grounds close to the coastline.

They also assist RAN survey ships in sounding and survey work.

The 107 ft patrol boats are used for Reserve training and for training Papua-New Guinea officers and sailors who will eventually assume full responsibility for operating a Papua-New Guinea patrol boat squadron.

The speed and versatility of the patrol boats have made them useful for helping disabled craft, for use as sea-air rescue boats and for transporting patients from remote shallow ports.

Major excursions have been made deep into Papua-New Guinea river systems.

Included in the ships' equipment is high definition navigation radar, high and ultra-high frequency radio transmitters and receivers, gyro and magnetic compasses and echo sounders.

All the patrol boats are fully air conditioned, and all were built in Queensland shipyards.



Name	No. Builder	Laid First Com-
SYDNEY	214 HM Dockyard, Devonport	
	Displacement	17,233 tons
	Length	698 ft
	Beam	80 ft
	Armament	Four 40/60 mm Bofors guns
	Machinery	Parsons single reduction geared turbines
	Speed	More than 20 knots
	Ship's Company	607

Troop transport

HMAS Sydney, which first saw service in the Royal Australian Navy as a light aircraft carrier, was converted in 1961-62 to a fast troop transport carrier.

Sydney was recommissioned in her present role on 7 March 1962. With her flight deck and ample below-deck capacity she is capable of transporting a large body of men with their equipment anywhere in the world.

The ship has demonstrated her troop carrying effectiveness on many occasions, notably on the many return trips she made to Vietnam, which earned her the nickname "Vung Tau Ferry".

Sydney has visited the United States to pick up new aircraft for the Fleet Air Arm, represented Australia at the British Columbia centenary celebrations and has made many other overseas courtesy visits and training cruises.

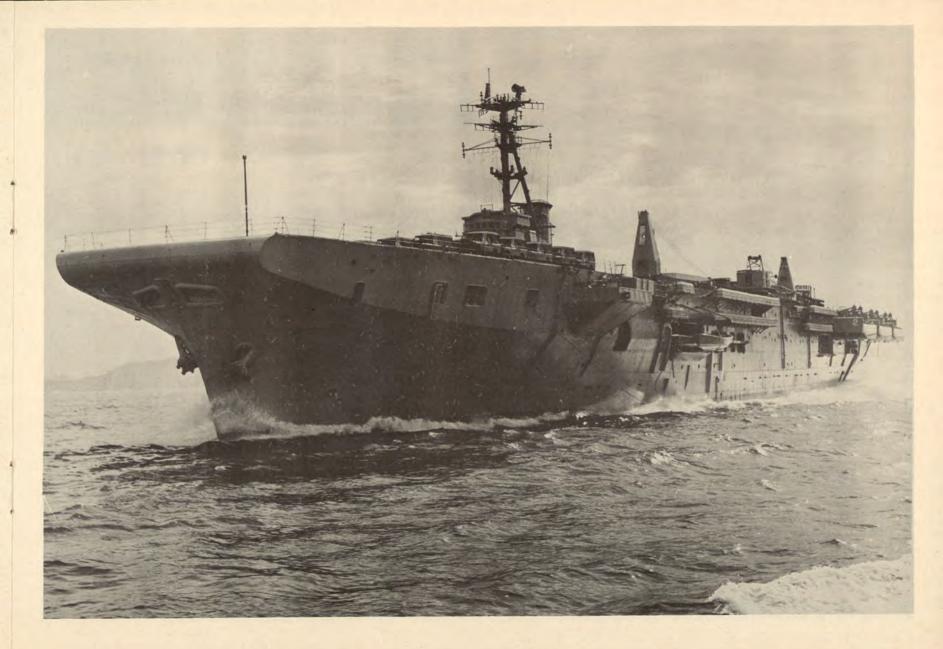
The present *Sydney* is the third RAN ship to carry the name. The first and second *Sydneys* were famous light cruisers in the two World Wars. The third *Sydney* was laid down in 1943 as HMS *Terrible*. She was renamed and commissioned into the RAN on 16 December 1948.

She reached Sydney on 28 May 1949 and returned to Britain the following year to bring back the 21st Carrier Air Group. The Group operated Sea Furies, then the fastest piston engine fighter in the world, and the all-purpose Fairey Fireflies.

In 1951-52 and 1953-54 *Sydney* served with distinction in Korean waters where she mounted aerial strikes against tanks, trains, bridges, supply depots and troop concentrations.

In May 1955 Sydney landed her aircraft and began her roles as a training ship.

Today, as well as being a fast transport, she shares with the destroyer *Anzac* the task of training men for the Royal Australian Navy.



First Com-Launched missioned 23/9/46 20/8/48 14/3/51 ANZAC Dockyard 3.450 tons 379 ft Length 41 ft Beam One 4.5 in gun Armament Machinery Parsons geared turbines 50.000 shp. 2 shafts More than 30 knots Ship's Company 270

Training ships

The troop transport *Sydney* and the Battle Class destroyer *Anzac*, both Korean War veterans, are the Royal Australian Navy's training ships.

The first *Anzac* was a destroyer built for the Royal Navy in 1917 and commissioned into the Royal Australian Navy in 1920.

The present *Anzac* was built at the Williamstown Naval Dockyard, Melbourne, and commissioned on 14 March 1951.

The ship spent the greater part of the following two years in Korean waters supporting United Nations forces. Her other periods in northern waters included four tours of duty with the Strategic Reserve based at Singapore.

During the Royal Tour of Australia in 1953-54 *Anzac* carried Her Majesty the Queen, the Duke of Edinburgh and the Royal party on visits to several north Queensland ports.

In 1961 Anzac became a Fleet Training ship with the important task of preparing young officers and sailors for careers at sea.

Much of the ship's original armament was removed and replaced by classrooms and other training facilities. Trainees include young sailors, cadet midshipmen from the Royal Australian Naval College, midshipmen from the Papua-New Guinea division of the Royal Australian Navy and officer cadets from overseas countries.

Trainees normally spend several months on *Anzac* learning navigation, seamanship, engineering, communications and other aspects of naval life.

The period spent on *Anzac* is a good initiation into life at sea and for many of the young men it's a chance to see ports of the South Pacific for the first time.



Name	No.	Builder	Laid Down	Launched	First Com- missioned
STALWART		Cockatoo Island Dockyard	23/6/64	7/10/66	9/2/68
SUPPLY	0.7124	Harland and Wolff Belfast	5/8/52	1/9/54	15/8/62
		STALWART		SUPP	LY
Displacen	nent	10,500 tons	26	6,000 tons	
Length		515 ft	58	33 ft	
Beam		67 ft	71	ft	
Armamen	t	Two 40/60 mm Bo guns twin mountin Provision for Sea close-range miss	ngs. macat Bo	wo twin, two ountings, 4 ofors guns	
Machiner	y	Two six-cylinder diesel engines developing 14,400 bhp	ge de	ouble re eared turbin eveloping 1 haft hp	nes
Speed		More than 20 km	nots Me	ore than 16	knots
Ship's Cor	mpany	396	20	5	

Destroyer tender

The destroyer tender *Stalwart* is the largest naval vessel wholly designed and built in Australia.

Her role is to provide destroyers with repair and maintenance facilities on a mobile basis so the ships can spend the maximum time on duty in their operational areas.

For this job the ship is equipped with extensive engineering, electrical, electronic, weapons, shipwright and other workshops, staffed by experts in a wide variety of trades and professions.

Several destroyers can be maintained by *Stalwart* at a time and three quarters of *Stalwart's* ship's company of nearly 400 are available for repair and maintenance duties.

Fleet oiler

HMAS Supply, the largest ship in the RAN, has the important task of refuelling fleet units to give ships greater range and mobility.

She supplies furnace fuel, aviation gasoline, diesel oil and water to other ships while they are underway.

In a typical operation a destroyer will steam alongside *Supply* at about 15 knots. With only about 100 ft between ships, lines are shot across, hoses are run across and connected, and pumping begins. A destroyer can be refuelled in this way in less than half an hour.





Name	No.	Builder	Dow	n Lau	inched	missioned
MORESBY	73	Newcastle State Dockyard	May 6	32 7	7/9/63	6/3/64
PALUMA	337	NSW State Dockyard	1943	5	/2/46	18/3/57
DIAMANTINA	266	Walkers Ltd, Maryborough	12/4/	43 6	5/4/44	27/4/45
KIMBLA	314	Walkers Ltd, Maryborough	4/11/	53 23	3/3/55	26/3/56
0		MORESBY			PALU	MA
Displacement	2,3	300 tons		336 to	ns	
Length.	31	4 ft		120 ft		
Beam	42			24 ft		
Armament		vo 40/60 mm Bofors g				
Machinery		esel electric main engi	ines			engines
Speed		ore than 18 knots			than 9	knots
Ship's Company	14	6		29		
		DIAMANTINA			KIMB	LA
Displacement	2,0	000 tons		750 to	ns	
Length	30	1 ft		179 ft		
Beam	36	.7 ft		32 ft		
Armament		ne 40/60 mm Bofors	gun			
Machinery	Ac	iple expansion; two Imiralty 3-drum boile	rs	steam	expan engin	е
Speed		ore than 19 knots		More than 10 knots		
Ship's Company	12	1		40		

First Com-

Survey ships

Surveying of Australian and Papua-New Guinea waters, which combined involve 16,500 miles of coastline and cover about one eighth of the earth's surface, is the mammoth task entrusted to the RAN Hydrographic Service.

The stepped-up exploitation of Australia's vast mineral resources in recent years based on bulk handling methods has led to the development of new ports such as Gove, Weipa, Spring Bay, Dampier and Port Hedland.

The largest bulk carriers in the world now call at Australian ports and there is a continuing need for new and more accurate surveys of shipping routes and harbour approaches.

Four RAN ships are engaged full time in this work and on oceanographic research. They are HMA Ships *Moresby*, *Paluma*, *Diamantina* and *Kimbla*, helped at times by other Fleet units.

Moresby is a large modern survey ship. She operates her own helicopter and carries advanced electronic surveying equipment.

A new hydrographic ship, the 800 tons *Flinders*, will shortly replace the 336 ton *Paluma*, which was commissioned in 1957.

The two other ships *Diamantina*, a converted frigate, and *Kimbla* are mainly engaged on oceanographic research for the CSIRO, universities and museums.

Diamantina will soon be replaced by another new hydrographic ship, HMAS Cook, similar to Moresby but slightly larger, and fitted with the most up-to-date oceanographic and survey equipment.













Future ships

The RAN's wide-ranging area of operations and the introduction of new and specialised techniques means the Navy must keep building new and better ships.

Several different types are on the drawing board or under construction for the Fleet of the 1980s.

The biggest project is the designing and building in Australia of a number of new destroyers designed specially for Australian conditions.

These ships will have a long cruising range, a high top speed and will be armed with a wide variety of weapons.

Another major project is the construction of the largest naval ship ever built in Australia, the 20,000 ton, 600 ft, fast combat support ship, HMAS *Protector*.

This vessel, part tanker and part cargo ship, will support Fleet units away from bases. She will carry a wide variety of dry and liquid stores including diesel oil, aviation fuel, missiles, ammunition, food and clothing. She will also operate her own helicopters and will be fitted with the latest equipment for quick replenishment at sea.

The Navy's oceanographic and hydrographic service is to get two new ships. The converted frigate *Diamantina* will be replaced by a new oceanographic ship *Cook*, which will be of the same general design as *Moresby* but larger; and the *Paluma* is being replaced by the 800 ton *Flinders*, a faster ship with better sea keeping qualities.

Both of these vessels will use the latest survey techniques including satellite navigation.

Also on order for the submarine arm are two new Oberon Class submarines, which are due to enter service in the mid 1970s. With the four present Oberons, they will give the RAN a formidable underwater striking force.









Aircraft

The Skyhawk jet fighter-bomber (top left) is the air defence and strike aircraft of the Fleet Air Arm.

These transonic aircraft are ideal for high pay load/wide radius operations in tactical air support and they have increased the versatility of the aircraft carrier HMAS *Melbourne*.

The Douglas A4-G Skyhawk is a relatively small aircraft (weight empty—9,800 lbs) but it is capable of carrying an extensive and varied war load (maximum all-up weight—24,500 lbs) over a considerable distance.

Its armaments include combinations of air-to-air missiles, a variety of 250, 500 and 1,000 lb bombs, 20mm cannon and rockets.

Embarked on *Melbourne* with the Skyhawks are anti-submarine Tracker aircraft and Wessex helicopters.

The Grumman S2E Tracker (below left) is an all-weather, twinengine aircraft. It can remain on patrol for up to 10 hours and each carries a crew of two pilots, an observer and an aircrewman.

The Tracker is fitted with electronic devices for submarine detection and can be armed with homing torpedoes or depth charges.

The Westland Wessex 31B helicopter, which doubles in a search and rescue role, is equipped with sonar for its anti-submarine duties and can also be armed with homing torpedoes or depth charges.

The Wessex carries a crew of two pilots, an observer and an aircrewman.

Training and support aircraft of the Royal Australian Navy include Iroquois utility and search and rescue helicopters, Macchi jet trainers and Dakota aircraft. The Dakotas are due to be phased out soon and will be replaced by Hawker Siddeley 748 training aircraft.

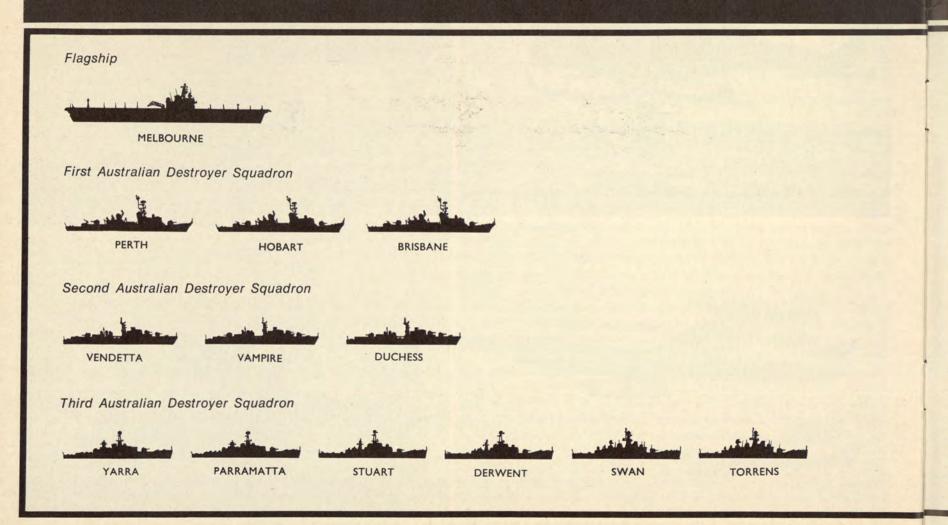


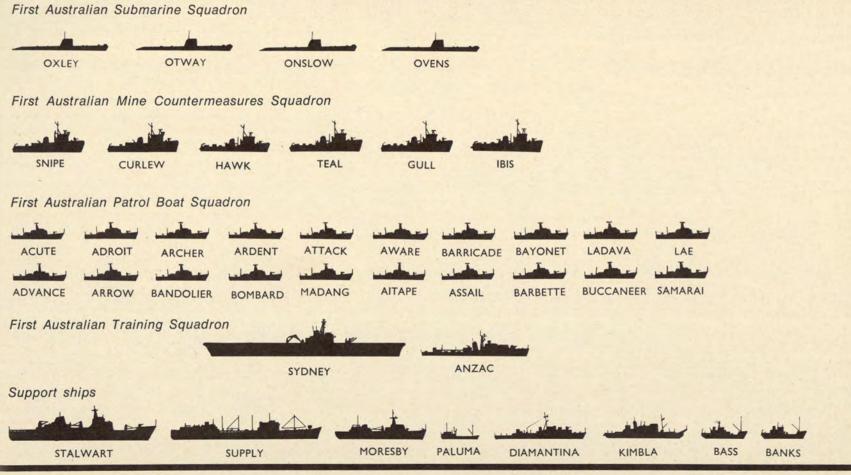






SHIPS OF THE ROYAL AUSTRALIAN NAVY





Further general information on the Royal Australian Navy may be obtained from the Director of Public Relations, Navy Office, Canberra, ACT 2600.

Information on Naval careers may be obtained from Recruiting Officers in all capital cities, or from the Director of Naval Recruiting, Navy Office, Canberra, ACT 2600.