



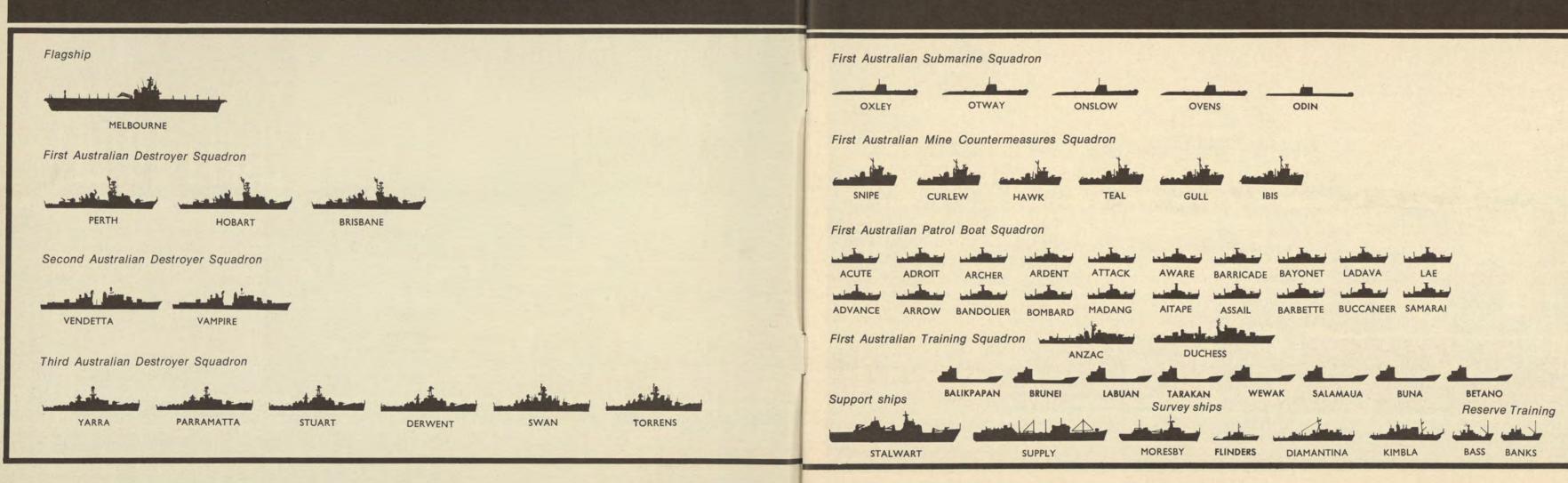
# DAY TODAY

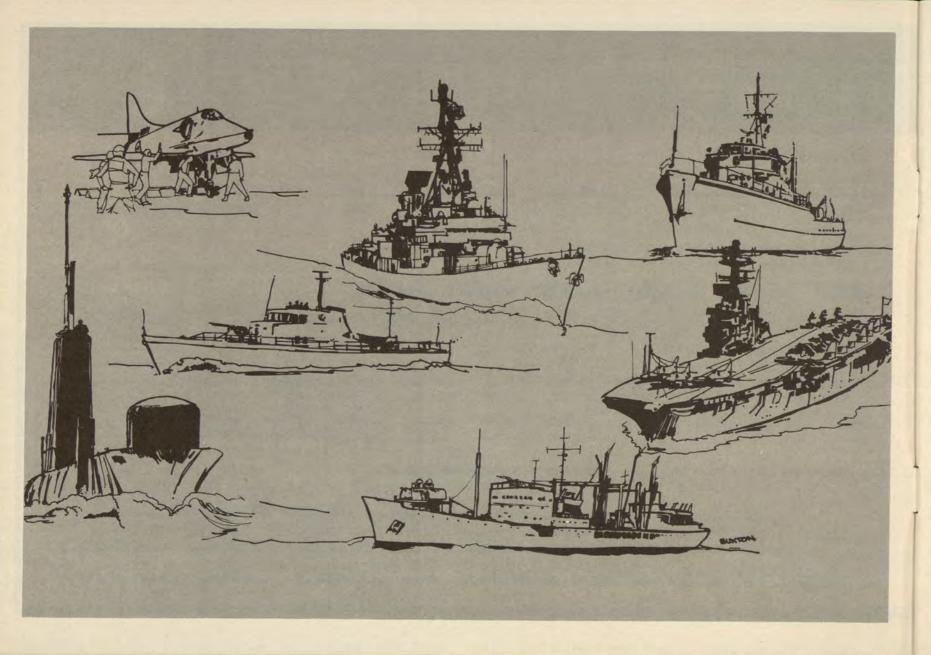






#### SHIPS OF THE ROYAL AUSTRALIAN NAVY





# A modern Navy

Although not large, the Royal Australian Navy compares well with the navies of other middle powers. It is well armed, well trained, is technically advanced and possesses a wide range of capabilities.

The main objective is to maintain a balanced naval capability best suited to meet possible future operational situations. To this end naval planning has been, and will continue to be, directed to effect a change from an anti-submarine warfare oriented force to one with a more general-purpose capability. This is reflected in the present Fleet, which has capabilities in all facets of naval operations such as interdiction, surface and anti-submarine warfare, naval air operations, surveillance and patrol and support to the other Services including naval gunfire support.

Briefly, the Navy's role in time of war or conflict is:

- To organise, train and equip naval forces, including naval aircraft, for timely and sustained combat operations at sea;
- To provide naval support for land operations;
- To provide military sea transport support for the Australian Services; and
- · To provide seaward defence of ports and anchorages.

In peacetime, the primary role is to maintain operational effectiveness of the capabilities required in the above roles, including the maintaining of an effective standard for joint operations with the Army and the RAAF and, in addition, wherever possible, to contribute to national development and to assist the civil population.

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



		Laid First Com-				
Name	No. Builder	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  Parsons single reduction geared turbines, 4 Admiralty 3-drum type boilers  More than 20 knots				
	Machinery					
	Speed					
	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.

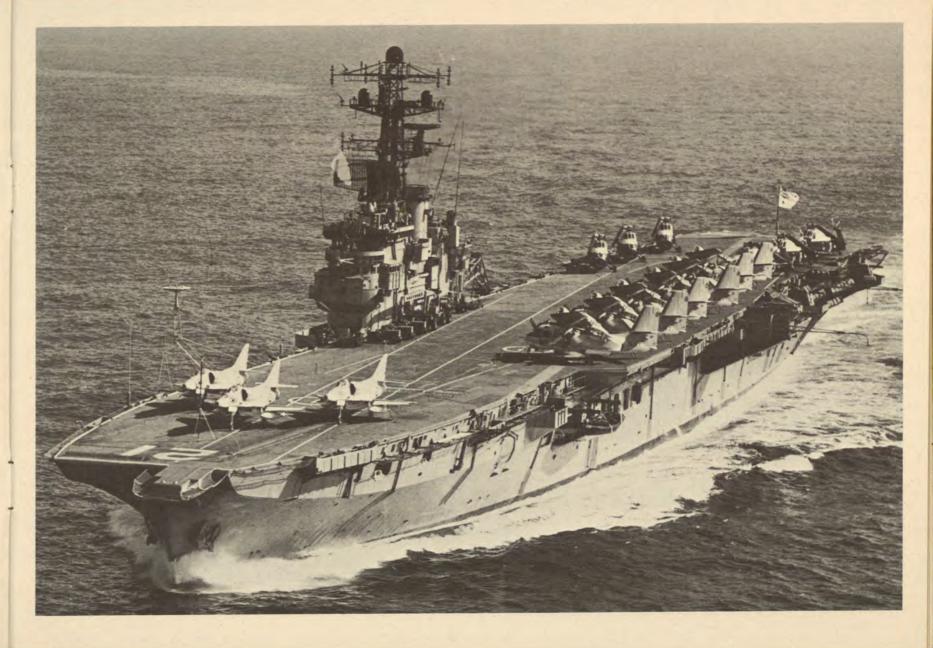
In 1971 the ship received a rebuilt catapult, strengthened flight deck and other changes.

Melbourne was laid down in 1943 as HMS Majestic, at the same time as HMS Terrible (later 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 10 May 1956.



Name	No. Builder	Laid First Com- Down Launched missioned				
PERTH	38 Defoe Shipbuild Co Bay City Mid					
HOBART	39 Defoe Shipbuild Co Bay City Mid	0 -1 -1 -1 -1 -1 -1 -1				
BRISBANE	41 Defoe Shipbuild Co Bay City Mid					
	Displacement	4,500 tons				
	Length	437 ft				
	Beam	47 ft				
	Armament	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				
	Machinery	Two GE geared steam turbines driving two shafts				
	Speed	More than 30 knots				
	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.

The ships are entering a period when their weapon systems are being updated.

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



Name	No. Builder	Down Launched missioned				
VENDETTA	08 HMA Naval Doo Williamstown	ckyard 4/7/49 3/5/54 26/11/58				
VAMPIRE	11 Cockatoo Islan Dockyard Sydn					
	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**

First Com-

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

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.

Vampire and Vendetta were built in Australia, while the training ship Duchess—also a Daring—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.



			Laid		First Com-		
Name	No.	Builder	Down	Launched	missioned		
YARRA		Villiamstown Dockyard	9/4/57	30/9/58	27/7/61		
PARRAMATTA		Cockatoo Island Dockyard	3/1/57	31/1/59	4/7/61		
STUART		Cockatoo Island Dockyard	20/3/59	8/4/61	28/6/63		
DERWENT		Villiamstown Oockyard	16/6/58	17/4/61	30/4/64		
SWAN		Villiamstown lockyard	18/8/65	16/12/67	20/1/70		
TORRENS		Cockatoo Island Oockyard	18/8/65	28/9/68	19/1/71		
	Dis	splacement	2,700 tons				
	Length		370 ft				
		am	41 ft				
	Arr	mament	Two 4.5 in g controlled by radar and anti - aircraft Ikara anti-s system. To submarine me	digital fir computer. missile submarine riple-barre	re control Seacat system. missile		
	Ма	chinery	Geared stear 30,000 shaft				
	Speed		More than 30 knots				
	Shi	p's Company	250				
					-1		

### Destroyer escorts

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

The newest ship HMAS *Torrens* and her sister ship HMAS *Swan* incorporate many design changes made in the four earlier River Class HMAS 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 Down	Launched	First Com-		
OXLEY	57	Scotts' Shipbuilding Greenock		2/7/64	24/9/65	27/3/67		
OTWAY		Scotts' Shipbuilding Greenock		29/6/65	29/11/66	22/4/68		
ONSLOW	60	Scotts' Shipbuilding Greenock		26/5/67	3/12/68	22/12/69		
OVENS		Scotts' Shipbui Greenock	lding	17/6/66	4/12/67	18/4/69		
	Di	splacement	2,03	0 tons				
	Le	Length 295		i ft				
	Beam		261/2 ft					
	Ar	mament	surf		d two stand anti-s			
	Machinery		Two English Electric main propulsion motors, with two Admiralty standard range diese generators  Submerged speed, more that 15 knots					
	Shi	p'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.

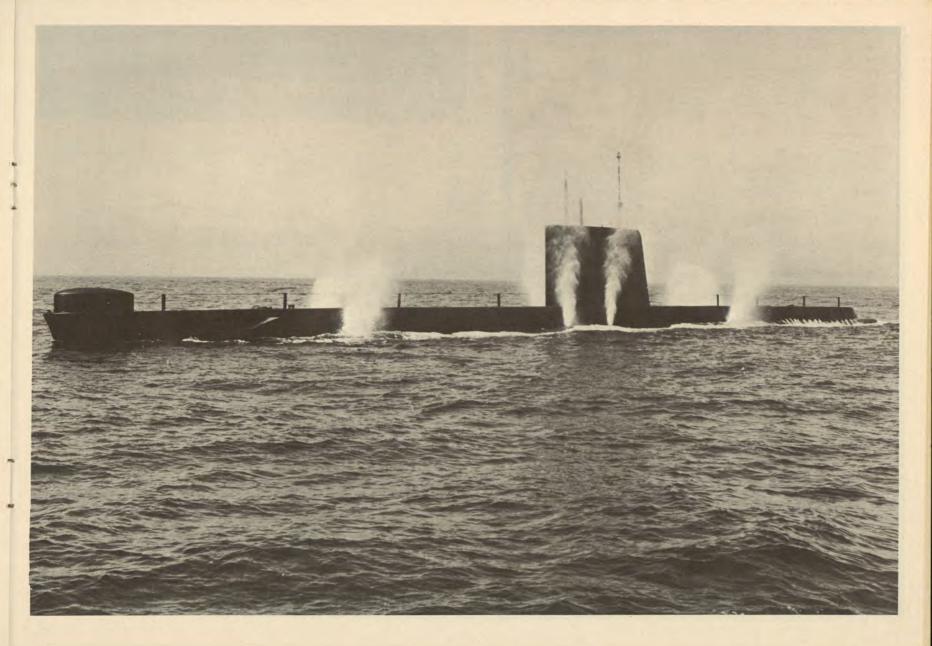
They are designed for silent running, and underwater equipment includes sensitive listening apparatus and an electronic fire control system.

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. HMAS *Oxley* and HMAS *Otway* are named after two earlier RAN submarines. The first of the new submarines on order will be named HMAS *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 HMAS *Otama* after the Queensland aboriginal word meaning dolphin—the submarines' symbol.



Name	No. Builder	Laid First Com- Down Launched missioned in RAN				
SNIPE	1102 Thornycroft, UK	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, U	K 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 28 ft				
	Beam					
		Two 40/60 mm Bofors gun (one on minehunters)				
		Napier diesel engines develop- ing 3,000 hp				
	Speed	More than 15 knots				
		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 HMAS Curlew and HMAS 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.



			Laid		First Com-	
Name	No.	Builder	Down	Launched	missioned	
ACUTE	81	Evans Deakin Ltd	d Apr. 67	26/8/67	26/4/68	
ADROIT	82	Evans Deakin Ltd	d 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 Ltd	d Dec. 66	14/7/67	1/3/68	
ARCHER	86	Walkers Ltd	Jul. 67	2/12/67	15/5/68	
ARDENT	87	Evans Deakin Ltd	d Oct. 67	27/4/68	26/10/68	
ARROW	88	Walkers Ltd	Sep. 67	17/2/68	3/7/68	
ASSAIL	89	Evans Deakin Ltd	d Aug. 67	18/11/67	12/7/68	
ATTACK	90	Evans Deakin Ltd	Sep. 66	8/4/67	17/11/67	
AWARE	91	Evans Deakin Ltd	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 Ltd	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 Ltd	Dec. 67	29/6/68	26/10/68	
BOMBARD	99	Walkers Ltd	Apr. 68	6/7/68	5/11/68	
BUCCANEER	100	Evans Deakin Ltd	Jun. 68	14/9/68	11/1/69	
BAYONET	101	Walkers Ltd	Oct. 68	6/11/68	22/2/69	
		Displacement	146 tons			
	L	ength	107 ft			
	Е	Beam	20 ft			
	A	Armament	40/60 mm Begun and a v	ofors gun,	machine ight arms	
	٨	Machinery	Two 16-cyli	nder dies	els, pro-	
	S	speed	More than 20 knots			
	S	hip's Company	19			

#### Patrol boats

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

They form units of the Navy's patrol boat squadrons.

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. Builde	er	Laid Down	F Launched n	irst Com- nissioned		
BALIKPAPAN	L126 Walkers	s Ltd	May 71	15/8/71	8/12/71		
BRUNEI	L127 Walkers	Ltd	Jul. 71	15/10/71	5/1/73		
LABUAN	L128 Walkers	Ltd	Oct. 71	29/12/71	9/3/73		
TARAKAN	L129 Walkers	Ltd	Dec. 71	16/3/72	15/6/73		
WEWAK	L130 Walkers	Ltd	Mar. 72	18/5/72	10/8/73		
SALAMAUA	L131 Walkers	Ltd	May 72	27/7/72			
BUNA	L132 Walkers	Ltd	Jul. 72	26/9/72			
BETANO	L133 Walkers	Ltd	Sep. 72	5/12/72			
	Displacer	ment 310	tons				
	Length	146	146 ft				
	Beam	33 ft					
	Armamen	t Two	0.5 in ma	achine guns	3		
	Speed	More	More than nine knots				
	Ship's Co	mpany Two	Two officers, 11 s				

#### Amphibious craft

For the first time since World War II, the RAN has a landing craft squadron. Called Landing Craft Heavy (LCH), the first ship, HMAS *Brunei*, joined the Fleet on January 5, 1973.

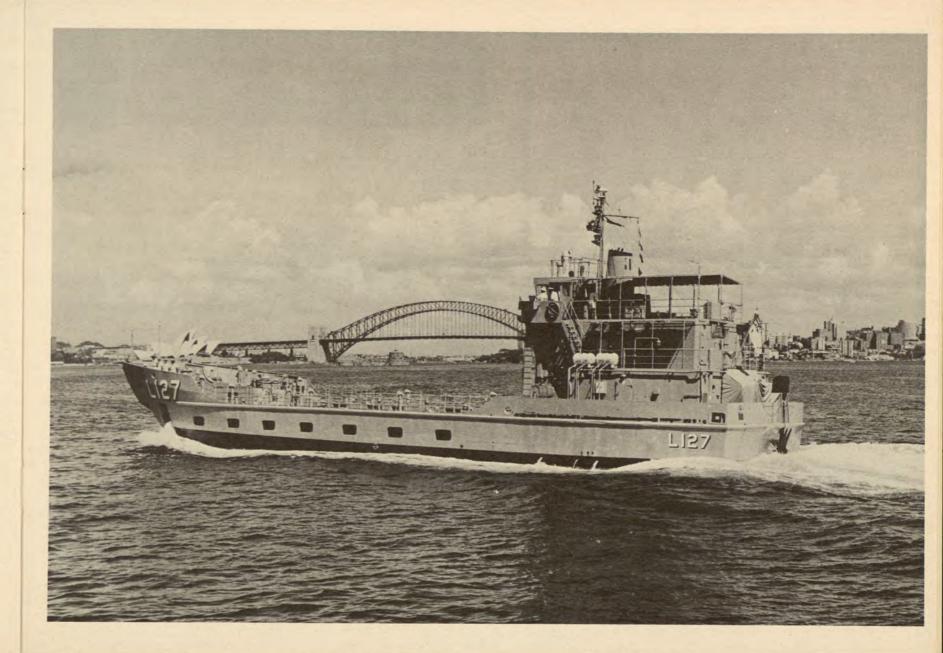
The squadron is based at HMAS *Moreton*, the RAN shore establishment at Brisbane, where the commanding officer is also the LCH Squadron Commander.

At the end of August 1973, four LCHs had been commissioned into the RAN — HMA Ships *Brunei*, *Labuan*, *Tarakan* and *Wewak* — and three others — HMA Ships *Salamaua*, *Buna* and *Betano* — were to commission in late 1973 or early in 1974. An eighth, *Balikpapan*, the prototype which has been manned by the Army, will transfer to the RAN in mid-1974. She went through extensive joint Navy/Army evaluation trials in 1972.

The eight sea-going ships, all built at Walkers Ltd. shipyards, Maryborough, Queensland, are each manned by two officers and 11 sailors. They will be employed primarily in providing support for the Army, although one will normally be allocated to the Navy for hydrographic survey work.

As the names suggest, the ships are all named after World War II amphibious operations in which RAN ships and craft put Australian Army units ashore or did surveys preparatory to the landings.

The versatile LCHs will be able to carry the heaviest equipment in the Army's order of battle (up to three Centurion tanks, for example).



Name	No. Builder	Laid First Com Down Launched missioned
ANZAC	59 Williamstown Dockyard	23/9/46 20/8/48 14/3/5
	Displacement	3,450 tons
	Length	379 ft
	Beam	41 ft
	Armament	One twin 4.5 in gun turret
	Machinery	Parsons geared turbines 50,000 shp. 2 shafts
	Speed	More than 30 knots
	Ship's Company	270
Name	No. Builder	Laid First Com- Down Launched missioned
DUCHESS	154 Thornycroft, Southampton	2/7/48 9/4/51 23/10/52
	Displacement	3,600 tons
	Length	390 ft
	Beam	43 ft
	Armament	Four 4.5 in dual purpose guns in twin turrets forward. Two 40/60 mm Bofors guns.
	Machinery	Parsons double reduction geared turbine, driving two shafts
	Speed	More than 30 knots
	Ship's Company	260

### Training ships

The Battle Class destroyer HMAS *Anzac* and the Daring Class destroyer HMAS *Duchess* are the Royal Australian Navy's training ships.

Anzac, the second RAN ship of that name, was built at Williamstown Naval Dockyard, Melbourne, and commissioned on 14 March 1951. She 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 at Singapore.

In 1961 Anzac became the 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 class-rooms and other training facilities.

Duchess, formerly a Royal Navy ship, was built in Britain and commissioned in 1952. She served at Suez during the 1956 crisis and escorted aircraft carriers in the Aden area in 1963. She was lent to the RAN in 1964 and was bought by the Australian Government in 1972.

A Daring Class destroyer, *Duchess* has served in recent years as a member of the Second Australian Destroyer Squadron.

Like Anzac, changes have been made to Duchess to convert her to her training role. Anzac will decommission in 1974.

Trainees in both ships include young sailors, cadet midshipmen from the RAN College, midshipmen from the Papua New Guinea division of the RAN and officer cadets from other countries. Normally they spend several months at sea learning navigation, seamanship, enginering, communications and other aspects of naval life.



Name	No.	Builder D			First Com- missioned
STALWART 2		katoo Island kyard	23/6/6	7/10/66	9/2/68
SUPPLY 1	195 Harla Belfa	and and Wolff	5/8/5	52 1/9/54	15/8/62
		STALWART		SUPP	LY
Displaceme	nt 10	0,500 tons		26,000 tons	
Length	51	15 ft		583 ft	
Beam	67	67 ft 71		71 ft	
Armament	gı. Pr	wo 40/60 mm Bo uns twin mounting rovision for Sea ose-range miss	ngs.	Two twin, tw mountings, 4 Bofors guns	40/60 mm
Machinery		diesel engines developing 14,400		Double reduction geared turbines developing 15,000 shaft hp	
Speed	Me	ore than 20 kr	nots I	More than 16	6 knots
Ship's Comp	pany 39	6	2	205	

## Destroyer tender

The destroyer tender HMAS 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	Laid Down			First Com- missioned
MORESBY	73	Newcastle State Dockyard	May 6	2 7/9	/63	6/3/64
FLINDERS	312	Williamstown N.D.	Dec. 7	0 29/7/	72	27/4/73
DIAMANTINA	266	Walkers Ltd, Maryborough	12/4/4	3 6/4/	/44	27/4/45
KIMBLA	314	Walkers Ltd, Maryborough	4/11/5	3 23/3	/55	26/3/56
		MORESBY			FLI	NDERS
Displacement	2.3	300 tons		750 tons	3	
Length	-	4 ft		161 ft		
Beam	42	ft		33 ft		
Armament	Tw	vo 40/60 mm Bofors	guns	Two dies	sel e	ngines
Machinery	Di	esel electric main en	gines	More tha	an 1	3 knots
Speed	Me	ore than 18 knots		38		
Ship's Company	14	6				
		DIAMANTINA		KI	MBL	A
Displacement	2.0	000 tons		750 tons		
Length	30	1 ft		179 ft		
Beam	36	.7 ft		32 ft		
Armament	Or	ne 40/60 mm Bofors				
Machinery		iple expansion; two imiralty 3-drum boil		Triple ex steam er		
Speed	Mo	ore than 19 knots		More tha	an 1	0 knots
Ship's Company	12	1		40		
N. Contraction of the Contractio						

#### 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, Flinders, Diamantina and Kimbla, helped at times by other Fleet units.

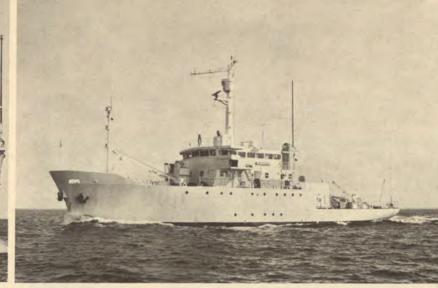
Moresby is a large modern survey ship. She operates her own helicopter and carries advanced electronic surveying equipment.

A new hydrographic ship, the 750 ton Flinders, has replaced the 336 ton Paluma, which was commissioned in 1957.

The two other ships Diamantina, a converted frigate, and Kimbla are mainly engaged on military and civilian oceanographic research including work 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.









First Com-Launched missioned 28/3/60 15/11/60 Maryborough BANKS 15/12/59 16/2/60 Walkers Ltd, Maryborough 177 tons (Bass) Displacement

> Length 23 ft Beam

Machinery Twin-screw engine

145 tons (Banks)

Speed 10 knots

COOK

Displacement Standard, 1.910 tons Full Load, 2,650 tons

Length 317 ft 44 ft Beam

Diesel, 2 shafts, 3,000 bhp Main engines

17 knots Speed Oil fuel 640 tons

150, including scientific staff

#### Support ships

The Royal Australian Navy has two general purpose ships, HMAS Bass and HMAS Banks, of the Explorer Class, built at Walkers Ltd. shipyards, Maryborough, Queensland. Banks was fitted for fishery surveillance and Bass for surveying, but both were used for other duties.

In June 1967, Bass was assigned as a Naval Reserve training ship in Tasmanian waters and a month later Banks was assigned to similar duties in South Australian waters. Normally they have complements of two officers and 12 sailors, but during training cruises they may carry more.

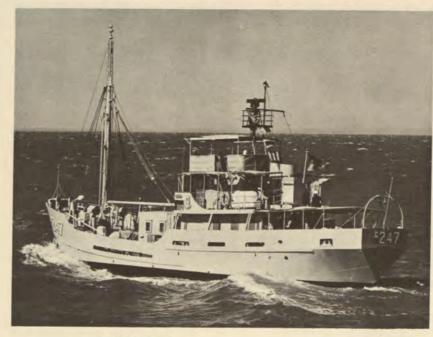
Both ships provide training of officers and sailors in the seamen. electrical, engineering and communications branches of the Naval Reserve. Also, they provide support to shore establishments in Tasmania and South Australia and to visiting Fleet units.

# Future ships

As well as HMAS Flinders, which was commissioned in 1973, the RAN's oceanographic and hydrographic service is to have another new ship. She is HMAS Cook, which will replace HMAS Diamantina.

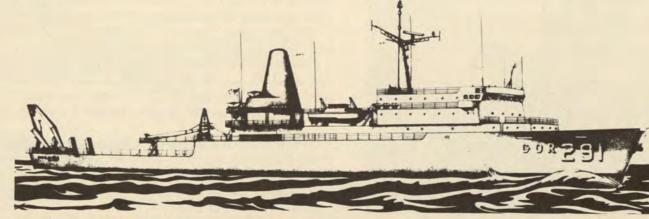
Cook will be of similar size to the survey ship HMAS Moresby but with distinct features of her own. Equipped with the latest survey techniques including satellite navigation, Cook will have accommodation and laboratory research facilities for a number of scientific staff in addition to the ship's company.

Unlike Moresby she will not carry a helicopter.



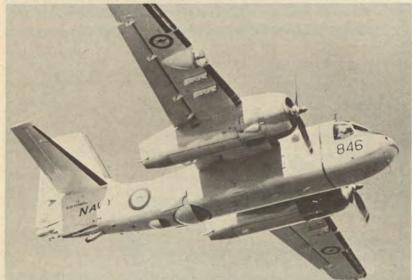
· HMAS Banks

• HMAS Bass



· Artist's impression of HMAS Cook





#### **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 Hawker Siddeley 748 training aircraft, the latter having been delivered in mid-1973.









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