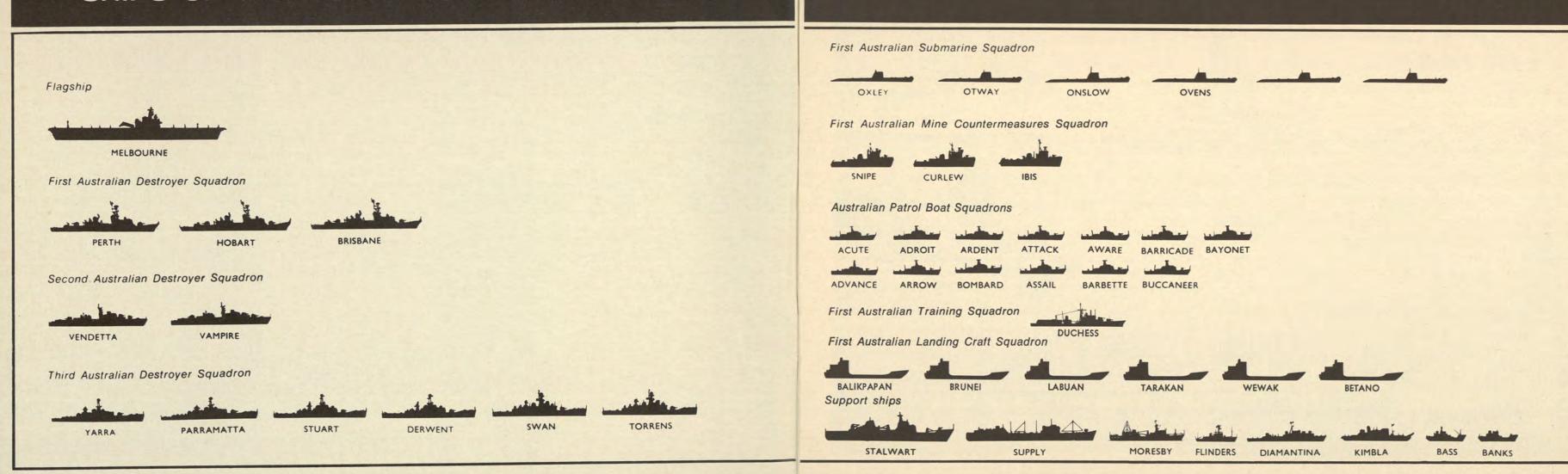
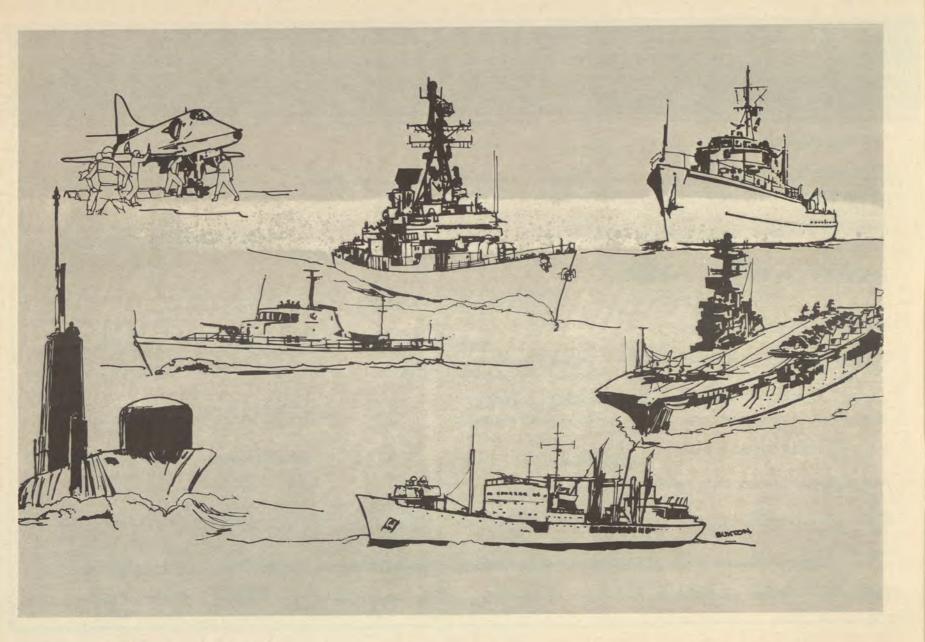


DAY TODAY

SHIPS OF THE ROYAL AUSTRALIAN NAVY





A modern navy

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

The main objective is to maintain a balanced general-purpose capability to meet all possible future operational situations. The present Fleet has capabilities in all facets of naval operations including interdiction, surface and anti-submarine warfare, naval air operations, surveillance and patrol, mine counter-measures, hydrographic and oceanographic surveying, and support for the other Services such as naval gunfire support and sea transport.

Briefly, the Navy's role is as follows:

- To organise, train and equip naval forces, including naval aircraft, for 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 Navy maintains operational effectiveness in the capabilities required for the above functions, including the maintenance of an effective standard for joint operations with the Army and the RAAF. In addition, as much as possible, the Navy contributes to national development and assists the civil population.

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



lame	No.	Builder	Laid First Com- Down Launched missioned							
BOURNE	21	Vickers-Armstrong Barrow-in-Furness	15/4/43 28/2/45 28/10/55							
		Displacement Length	20,320 tonnes 213.8 metres							
		Beam	24.5 metres							
		Armament 12 (4 twin, 4 single) 40/60 Bofors Machinery Parsons single reduction go turbines, 4 Admiralty 3-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 (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 Down	Launched	First Com- missioned
PERTH	38	Defoe Shipbuilding Co Bay City Mich	g 21/9/62	26/9/63	17/7/65
HOBART	39	Defoe Shipbuilding Co Bay City Mich	26/10/62	9/1/64	18/12/65
BRISBANE	41	Defoe Shipbuilding Co Bay City Mich	15/2/65	5/5/66	16/12/67
		Displacement	4,580 tonnes		
		Length	133.2 metres		
		Beam	14.3 metres		
		Armament	Two 5 inch fire guns. guided miss lkara anti-sub tems. Two s anti - submari pedoes	Tartar ar sile syste marine m ets triple	nti-aircraft em. Two issile sys- mounted
		Machinery	Two GE gea driving two s		turbines
		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 DDGs 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		Laid Down	Launched	First Com- missioned
VENDETTA	08	HMA Naval Docky Williamstown	ard	4/7/49	3/5/54	26/11/58
VAMPIRE	11	Cockatoo Island Dockyard Sydney	,	1/7/52	27/10/56	23/6/59
		Displacement	3,67	0 tonnes		
		Length	118	.9 metres		
		Beam	13.1 metres			
		Armament	in t aft. Trip	ix 4.5 inch dual purpose gu n twin turrets, two forward, o ft. Six 40/60 mm Bofors gur riple - barrel anti - submari portar		
		Machinery			ble reducti	ion geared hafts
		Speed	Moi	re than 3	0 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 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.



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	2,750 tonnes
		Length	112.8 metres
		Beam	12.5 metres
		Armament	Two 4.5 inch guns in twin turret controlled by digital fire control radar and computer. Seacat anti - aircraft missile system. Ikara anti - submarine missile system. Triple - barrel antisubmarine mortar
		Machinery	Geared steam turbines develop- ing 22,370 kw
		Speed	More than 30 knots
		Ship's Company	250

Destroyer escorts

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

The newest ships, HMA Ships Swan and Torrens, incorporate many improvement over the earlier River Class HMA 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' Shipbuild Greenock	ling	2/7/64	24/9/65	27/3/67
OTWAY	59	Scotts' Shipbuild Greenock	ling	29/6/65	29/11/66	22/4/68
ONSLOW	60	Scotts' Shipbuild Greenock	ling	26/5/67	3/12/68	22/12/69
OVENS	70	Scotts' Shipbuild Greenock	ing	17/6/66	4/12/67	18/4/69
ORION	61	Scotts' Shipbuild Greenock	ing	April 197	2 16/9/7	74
OTAMA	62	Scotts' Shipbuild Greenock	ing	Dec. 197	2	
		Displacement	2,0	70 tonnes		
		Length	89.	9 metres		
		Beam	8.1	metres		
		Armament	sur		d two st and anti-s s	
		Machinery	Adr	pulsion i	h Electr motors, v ndard ran	vith two
		Speed		merged knots	speed m	ore than
		Ship's Company	63			

Submarines

The First Australian Submarine Squadron consists of four attack submarines of the Oberon Class, built in the United Kingdom between 1964 and 1970, and the Royal Navy submarine HMS *Odin*. The *Odin* has been attached to the Australian Fleet since 1972 under a Government-to-Government agreement, and is due to return to Britain in 1975. Two more Oberons are currently under construction for the RAN.

The Squadron is based at HMAS *Platypus*, North Sydney—a shore base specially designed to support submarines.

RAN submarines have diesel-electric propulsion and are capable of remaining submerged for several weeks, using the snort system. This enables the diesel generators to re-charge the batteries while submerged. They can dive to more than 120 metres and have a maximum submerged speed of more than 15 knots.

Their main detection system is "passive sonar"—which picks up the machinery noise radiated by other ships and submarines. A new passive sonar is currently being installed which measures the range as well as the bearing of targets. Weapons carried include guided, homing anti-submarine torpedoes as well as conventional anti-ship torpedoes.

The four submarines in service are HMAS Oxley, Otway, Ovens and Onslow; the two being built are Orion and Otama. Oxley and Otway are named after earlier Australian submarines and the name Orion has been chosen to preserve long-established links with the Royal Navy. Otama is a Queensland aboriginal word meaning dolphin—the symbol of the Submarine Arm.

HMAS *Orion* was launched at Scotts' Shipyard, Greenock, Scotland, on 16 September 1974 and is due to be completed in October 1975. HMAS *Otama* will follow nine months later.



4/-	Duittele -	Laid First Com-
No.	Builder	Down Launched missioned in RAN
1102	Thornycroft, UK	Jul. 51 5/1/53 11/9/62
1121	Montrose, UK	April 53 6/10/53 21/8/62
1183	Montrose, UK	Oct. 53 18/11/55 7/9/62
	Displacement	489 tonnes
	Length	46.6 metres
	Beam	8.5 metres
	Armament	Two 40/60 mm Bofors guns (one on minehunters)
	Machinery	Napier diesel engines develop- ing 2240 kw.
	Speed	More than 15 knots
	Ship's Company	34 (minesweeper) 38 (minehunter)
	1121	1102 Thornycroft, UK 1121 Montrose, UK 1183 Montrose, UK Displacement Length Beam Armament Machinery Speed

Mine warfare ships

The First Australian Mine Countermeasures Squadron is made up of three 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 the squadron consisted of six ships fitted as minesweepers. The squadron has since been reduced to three ships, and HMAS *Curlew* and HMAS *Snipe* have been converted to minehunters.

HMAS *lbis* is still fitted for minesweeping. It carries devices to explode acoustic and magnetic as well as contact mines. It can also detect and destroy other underwater obstructions which would be hazardous to shipping.

The wooden-hulled mine countermeasure ships 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.



Name	No.	Builder	Laid Down	Launched	First Com-
ACUTE	81	Evans Deakin Ltd	Ans 07	00/0/07	00/4/00
ADROIT	82	Evans Deakin Ltd	Apr. 67	26/8/67 3/2/68	26/4/68 17/8/68
ADVANCE	83	Walkers Ltd	Aug. 67 Mar. 67	16/8/67	24/1/68
AITAPE	84	Walkers Ltd	Nov. 66		13/11/67
SAMARAI	85	Evans Deakin Ltd	Dec. 66	14/7/67	1/3/68
ARDENT	87	Evans Deakin Ltd	Oct. 67		26/10/68
ARROW	88	Walkers Ltd	Sep. 67	17/2/68	3/7/68
ASSAIL	89	Evans Deakin Ltd	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
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	149 tonnes		
		Length	32.6 metres		
		Beam	6.1 metres		
		Armament	40/60 mm E gun and a v	Bofors gun, variety of I	machine ight arms
		Machinery	Two 16 cyl ducing more		
		Speed	More than 2	20 knots	
		Ship'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. Two of these, *Archer* and *Bandolier*, are being presented to Indonesia.

The remaining eighteen ships form units of the Navy's patrol boat squadrons.

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 32.6 metre 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, consisting of the present HMA Ships Aitape, Ladava, Lae, Madang and Samarai.

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 Down	Launched	First Com- missioned
BALIKPAPAN	N L126	Walkers 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	19/10/73
BUNA	L132	Walkers Ltd	Jul. 72	26/9/72	7/12/73
BETANO	L133	Walkers Ltd	Sep. 72	5/12/72	8/2/74
		Displacement	316 tonnes		
		Length	44.5 metres		
	3	Beam	10.1 metres		
		Armament	Two 0.5 inc	h machine	guns
		Speed	More than i	nine knots	
		Ship's Company	Two officers	, 11 sailors	

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. Four others—HMA Ships Salamaua, Buna, Betano and Balikpapan—were commissioned in the period up to mid-1974.

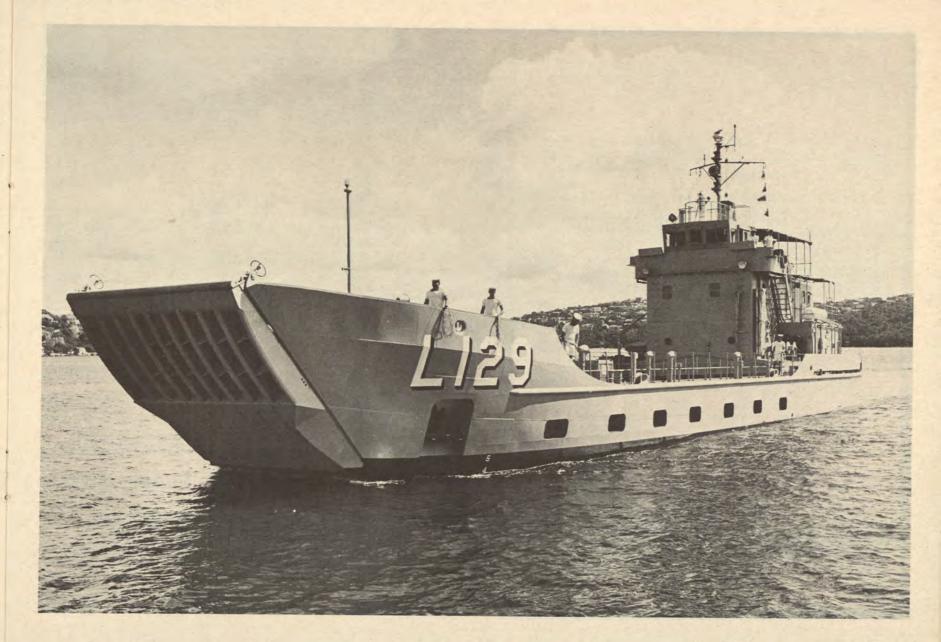
Balikpapan, the prototype LCH, was manned by the Army until July, 1974. She went through extensive joint Navy/Army evaluation trials in 1972.

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.

Two LCHs, Buna and Salamaua, were to be handed over to the Papua New Guinea Defence Force at the end of 1974.

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 can carry the heaviest equipment in the Army's order of battle (up to three Centurion tanks, for example).



First Com-Launched missioned 154 Thornycroft, 2/7/48 9/4/51 23/10/52 Southampton 3.665 tonnes Displacement Length 118.9 metres Beam 13.1 metres Armament Four 4.5 inch 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 ship

The Daring Class destroyer HMAS *Duchess* is the RAN's training ship.

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.

Duchess has served in recent years as a member of the Second Australian Destroyer Squadron.

Changes have been made to *Duchess* to convert her to her training role.

Trainees in the ship 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, engineering, communications and other aspects of naval life.





HMAS DUCHESS NEW PROFILE FOLLOWING REFIT

Name	No. Builder	Laid First Com- Down Launched missioned
STALWART	215 Cockatoo Island Dockyard	23/6/64 7/10/66 9/2/68
SUPPLY	195 Harland and Wolff Belfast	5/8/52 1/9/54 15/8/62
	STALWART	SUPPLY
Displacement	10,700 tonnes	26,500 tonnes
Length	157 metres	177.7 metres
Beam	20.4 metres	21.6 metres
Armament	Two 40/60 mm Bofors guns twin mountings. Provision for Seacat close-range missiles	mountings, 40/60 mm
Machinery	Two six-cylinder diesel engines developing 10,740 kw.	
Speed	More than 20 knots	More than 16 knots
Ship's Company	396	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 30 metres 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	Launched	First Com- missioned
MORESBY	73	Newcastle State Dockyard	May 62	7/9/63	6/3/64
FLINDERS	312	Williamstown N.D.	Dec. 70	29/7/72	27/4/73
DIAMANTINA	266	Walkers Ltd. Maryborough	12/4/43	6/4/44	27/4/45
KIMBLA	314	Walkers Ltd. Maryborough	4/11/53	23/3/55	26/3/56
	MOI	RESBY		FLINDE	RS
Displacement		2,340 tonnes	765 t	onnes	
Length		95.7 metres	49.1	metres	
Beam		12.8 metres	10.1	metres	
Machinery		Diesel electric main engines	Two	diesel en	gines
Speed	3	More than 18 knots	More	than 13	knots
Ship's Compar	ny	146	38		
1	DIAM	ANTINA		KIMBL	A
Displacement		2,040 tonnes	765 t	onnes	
Length		91.8 metres	54.6	metres	
Beam		11.2 metres	9.8 m	netres	
Armament		One 40/60 mm Bofor	'S		
Machinery		Triple expansion; two Admiralty 3-drum boiler		e expansi	on steam
Speed	- 1	More than 19 knots	More	than 10	knots
Ship's Compar	ny :	121	40		

Survey ships

Surveying of Australian and Papua New Guinea waters, which combined involve 25,000 km 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 765 tonne *Flinders*, has replaced the 342 tonne *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.









Top left—HMAS Morest

Top right—HMAS Flinders

Bottom left—HMAS Diamantina

Bottom right—HMAS Kimbla

Name	No.	Builder	Launched	First Com-
BANKS	244	Walkers Ltd. Maryborough	15/12/59	16/2/60
BASS	247	Walkers Ltd. Maryborough	28/3/60	15/11/60
		Displacement	180 tonnes (Bass) 148 tonnes (Banks)	
		Length	28.3 metres	
		Beam	7 metres	
		Machinery	Twin-screw engine	
		Speed	10 knots	
		соок		
		Displacement	Standard, 1,945 tonnes Full load, 2,550 tonnes	
		Length	96.6 metres	
		Beam	13.4 metres	
		Main Engines Speed	Diesel, 2 shafts, 2,240 l	kw.
		Oil Fuel	560 tonnes	
		Ship's Company		c staff
		Contract Contract		

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.

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.

Plans have been made to buy two Patrol Frigates from the United States. Delivery is planned for the early 1980s.





HMAS Bass

50R291

· HMAS Banks

· 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—4450 kg) but it is capable of carrying an extensive and varied war load (maximum all-up weight—11,126 kg) over a considerable distance.

Its armaments include combinations of air-to-air missiles, a variety of 250, 500 and 1000 lb bombs, 20 mm 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, Bell Kiowa helicopters, Macchi jet trainers and Hawker Siddeley 748 training aircraft.









Above left—Hawker Siddeley 748

· Above right-Westland Wessex 31B Helicopter

Bottom left—Macchi Jets

Bottom right—Iroquois

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