

Silver Jubilee Fleet Review



OFFICIAL SOUVENIR PROGRAMME





Foreword by *His Royal Highness The Prince of Wales KG*

This review of the Fleet by Her Majesty The Queen represents the continuation of a great tradition of naval reviews carried out by previous British Sovereigns, their purpose invariably being to display the composition of the fleet (or fleets) in existence at the time.

A review also offers a chance to the Royal Navy to parade, as it were, in front of its Lord High Admiral, something which tends to happen rather rarely—by the very nature of its operational requirements and the element in which it moves.

My family have always had a long, close and proud association with the Royal Navy : a service which, for my

forbears, my more immediate relations and latterly myself, has proved to be a rich source of human experience, of education, and the development of a sense of duty. My own personal association has been particularly close—after all, there cannot be many who can claim the distinction of both parents as Admirals.

I am, therefore, extremely proud to have been asked to write the foreword to this Programme, although I cannot help admitting that following the precedent of my great-grandfather King George V, who commanded Torpedo Boat 79 at a Naval Review in 1889 (as a young Lieutenant), I would have preferred to take

part in this review myself in command of a certain minehunter.

When The Queen reviews her ships today she will be reviewing, in human terms, the continuation of that great maritime spirit which has proved to be the strength and saving grace of this island on so many previous occasions and which is still the envy of so many navies throughout the world.

Introduction by *Admiral Sir Henry Leach KCB*

Commander-in-Chief Fleet

Welcome to Her Majesty's Review of the Royal Navy. Like her Father and Grandfather before her, The Queen has always maintained the closest touch with her Fleet. We are proud that Her Majesty is Lord High Admiral of the United Kingdom and that she is so ably supported by Their Royal Highnesses The Duke of Edinburgh and The Prince of Wales, both of whom have held operational command at sea.

The last quarter of a century has seen much change in the Navy. The ships are different—today's Battleships are the nuclear-powered Fleet submarines; Frigates now pack a more powerful punch than pre-war Light Cruisers ; the capability of the Fleet Air Arm's front-line Aircraft and the skills required to operate them bear no comparison with those of 25 years ago; every ship larger than a Coastal Minesweeper carries its own Helicopter; and all our essential replenishment of food, fuel, ammunition and stores is carried out underway at sea from the Royal Fleet Auxiliaries.

The equipment is different—Steam is giving way to Gas-Turbine Propulsion; Action Information from a ship's many

sensors is processed increasingly by Computers (still controlled and maintained by men); Guns are being replaced by Guided Missiles.

The whole pattern of operating the Navy is different—there is a single, large Fleet which is mainly concentrated in the Channel and Eastern Atlantic areas in support of NATO, although world-wide deployments of groups of ships continue to be made; the importance of offshore waters with their rich holdings of gas, oil and fish has grown immensely as has that of the ships and aircraft which patrol them; the amount of sea time for all ships is much greater; exercises are more realistic, more frequent and more exacting.

The Officers and Men are as cheerful and dedicated as their predecessors of 25 years ago, but today they have to be masters of the tremendous advances in technology and to have impressive skills ranging over a wide field in which leadership and professionalism continue to predominate.

With its Polaris Submarines the Navy operates the national strategic nuclear deterrent. You will not see one at the Review: they are at sea on patrol, making

their vital contribution to the task of preventing war.

Present, too, are ships from other countries in the Commonwealth, the North Atlantic Alliance, the European Economic Community and the Central Treaty Organisation.

Nearly three-quarters of the earth's surface is covered by water. On, over and under these seas pass most of our country's vital interests : food, fuel, trade. We are an island nation dependent on the sea and the historic words 'It is on the Navy under the good providence of God that our wealth, prosperity and peace chiefly depend' apply with as much force today as when Sir Walter Raleigh spoke them in the reign of Queen Elizabeth I.

I wish you and your families a happy time amongst *your* Fleet and *your* Sailors helping to celebrate Her Majesty's Silver Jubilee.

ADMIRAL

Programme of The Silver Jubilee Fleet Review

Friday 24 June

HM Ships assemble at Spithead
0800 The flag of the Commander-in-Chief Fleet (Admiral Sir Henry Leach, KCB) is hoisted in HMS *Ark Royal*



Saturday 25 June

Commonwealth and Foreign ships assemble
1100 Fly Past rehearsal by aircraft of the Fleet Air Arm
2200— Fleet illuminated
2359



Sunday 26 June

1030 Silver Jubilee Thanksgiving Service in HMS *Ark Royal*
1830 Reception given by Commander-in-Chief Fleet for Commonwealth and Foreign Officers in HMS *Ark Royal*
2200— Fleet illuminated
2359



Monday 27 June

0800 Ships in the Review Lines dress overall
1000 Rehearsal Column proceeds to Spithead. Column consists of Royal Fleet Auxiliary *Engadine* (representing HMV *Britannia*) preceded by Trinity House Vessel *Winston Churchill* and followed by HMS *Birmingham*
1019 Rehearsal of gun salute (first and last guns only)
1030 Rehearsal Column anchors
1300 Review area closed. Warning guns fired by HMS *Tiger* and HMS *Apollo*
1325 Rehearsal Column weighs anchor
1330 Rehearsal Column enters Review Lines with RFA *Engadine* preceded by THV *Winston Churchill* and followed by HMS *Birmingham*
Early RMS *Queen Elizabeth 2* will pass pm through the Main Shipping Channel outward bound
1530 Rehearsal Column anchors
1600 Review area open. Guns fired by HMS *Tiger* and HMS *Apollo*
1700 Rehearsal Column weighs anchor and enters harbour

1740 Her Majesty The Queen arrives at Portsmouth Harbour Station and is received by the Lord Lieutenant of Hampshire (The Right Honourable The Earl of Malmesbury, TD), the Lord Mayor of Portsmouth (Councillor George Austin) and the Commander-in-Chief Naval Home Command (Admiral Sir David Williams, KCB, ADC)
1755 Her Majesty The Queen arrives at South Railway Jetty and is received by the Commander-in-Chief Fleet and the Flag Officer Portsmouth (Rear Admiral W. J. Graham)
Royal Standard broken in HMV *Britannia*. Royal salute fired by Naval Saluting Battery
2200— Fleet illuminated
2359



Tuesday 28 June

0800 Ships in the Review Lines dress overall
1100 HMV *Britannia* with Her Majesty The Queen and members of the Royal Family embarked, preceded by THV *Patricia* (Elder Brethren of Trinity House embarked) and followed by HMS *Birmingham* (Admiralty Board embarked) and RFA *Engadine* (Press embarked), leaves South Railway Jetty for Spithead
1107 Royal Salute by Guards and Bands paraded in HMS *Vernon* and HMS *Dolphin* as HMV *Britannia* passes
1115 RFA's *Lyness*, *Sir Geraint* and *Sir Tristram* sail from Southampton with Official Guests
1119 Royal Salute fired by HM Ships *Ark Royal*, *Hermes*, *Fearless*, *Tiger*, *Glamorgan*, *Fife*, *Kent* and selected Commonwealth and Foreign ships as HMV *Britannia* passes Spit Refuge buoy
1130 HMV *Britannia* anchors at the head of the Review Lines
1230 The Admiralty Board and Flag Officers of the Fleet attend luncheon with Her Majesty The Queen in HMV *Britannia*
1330 Review area closed. Warning guns fired by HMS *Tiger* and HMS *Apollo*
1425 HMV *Britannia* weighs anchor

1630 Her Majesty The Queen reviews the Fleet. HMV *Britannia*, preceded by THV *Patricia* and followed by HMS *Birmingham* and RFA's *Lyness*, *Sir Geraint*, *Sir Tristram* and *Engadine*, enters the Review Lines
1630 HMV *Britannia*, HMS *Birmingham* and THV *Patricia* anchor at the head of the Review Lines
1645 Fly Past by aircraft of the Fleet Air Arm led by the Flag Officer Naval Air Command (Rear Admiral J. O. Roberts, CB)
1700 Review area open. Guns fired by HMS *Tiger* and HMS *Apollo*
1700 RFA's *Lyness*, *Sir Geraint* and *Sir Tristram* return to Southampton
1745 Reception in HMV *Britannia* for Naval Ratings of the Fleet
1840 RFA's *Lyness*, *Sir Geraint* and *Sir Tristram* berth at Ocean Terminal Southampton
1845 Displays by Royal Navy personnel in Southsea Common arena
2015 Her Majesty The Queen, accompanied by His Royal Highness The Duke of Edinburgh and other members of the Royal Family, dines on board HMS *Ark Royal*
2100 Beat Retreat by Royal Marines on Southsea Common
2205 Firework display on Southsea Common by City of Portsmouth sponsored by Schroder Life Group
2230 Fleet illuminated



Wednesday 29 June

0230 Switch off Fleet Illumination
0800 Ships in the Review Lines dress overall
0915 HMV *Britannia* weighs and returns to Portsmouth Harbour
0935 Royal Salute fired by the Fleet as HMV *Britannia* passes Outer Spit Buoy
0947 Royal Salute by Guards and Bands paraded in HMS *Dolphin* and HMS *Vernon* as HMV *Britannia* enters harbour.
1000 HM Ships weigh and proceed
1005 HMV *Britannia* berths at South Railway Jetty
1045 Her Majesty The Queen starts her visit to the City of Portsmouth. Royal Standard struck in HMV *Britannia*
pm Commonwealth and Foreign ships disperse

Ships and Naval Aircraft Taking Part

HM SHIPS

SHIP	PENNANT NO.	COMMANDING OFFICER
HMY <i>Britannia</i>	A00	Rear-Admiral H. P. Janion

AIRCRAFT CARRIERS AND AMPHIBIOUS SHIPS

HMS *Ark Royal* R09 Capt E. R. Anson (Flagship of Admiral Sir Henry Leach KCB, Commander-in-Chief Fleet)

HMS *Hermes* R12 Capt R. G. A. Fitch (Flagship of Rear-Admiral W. D. M. Staveley, Flag Officer, Carriers and Amphibious Ships)

HMS *Fearless* L10 Capt L. A. Bird MVO

FIRST FLOTILLA

HMS *London* D16 Capt P. D. Nichol
(Flagship of Rear-Admiral R. R. Squires, Flag Officer, First Flotilla)

HMS *Antrim* D18 Capt R. M. Burgoyne

HMS *Blake* C99 Capt H. B. Parker

HMS *Devonshire* D02 Capt C. A. F. Buchanan

First Frigate Squadron

HMS *Galatea* F18 Capt D. B. Nolan (Captain First Frigate Squadron)

HMS *Phoebe* F42 Capt H. M. Balfour

HMS *Alacrity* F174 Cdr R. B. Mortlock

HMS *Tartar* F133 Cdr M. A. C. Moore

HMS *Gurkha* F122 Cdr D. H. Barraclough

HMS *Salisbury* F32 Cdr J. T. Sanders

Second Frigate Squadron

HMS *Apollo* F70 Capt G. M. F. Vallings (Captain Second Frigate Squadron)

HMS *Hardy* F54 Lt Cdr M. J. Larmuth

HMS *Torquay* F43 Lt Cdr M. H. Rhodes

HMS *Dundas* F48 Lt Cdr W. J. Christie

Fifth Frigate Squadron

HMS *Hermione* F58 Capt J. A. B. Thomas (Captain Fifth Frigate Squadron)

HMS *Birmingham* D86 Capt P. J. Symons

HMS *Nubian* F131 Cdr J. R. Griffiths

Sixth Frigate Squadron

HMS *Andromeda* F57 Capt K. A. Low (Captain Sixth Frigate Squadron)

HMS *Naiad* F39 Capt R. C. Dimmock

HMS *Brighton* F106 Cdr P. Bell

HMS *Charybdis* F75 Cdr P. J. King

SECOND FLOTILLA

HMS *Tiger* C20 Capt S. A. C. Cassels CBE
(Flagship of Rear-Admiral M. La T. Wemyss, Flag Officer Second Flotilla)

HMS *Glamorgan* D19 Capt B. K. Shattock ADC

HMS *Fife* D20 Capt G. C. Lloyd

HMS *Kent* D12 Capt J. C. K. Slater MVO

Third Frigate Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Diomed</i>	F16	Capt A. F. C. Wemyss OBE
(Captain Third Frigate Squadron)		
HMS <i>Sheffield</i>	D80	Capt J. F. Woodward
HMS <i>Arrow</i>	F173	Cdr N. J. Barker
HMS <i>Arethusa</i>	F38	Cdr J. K. Conder

Fourth Frigate Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Cleopatra</i>	F28	Capt J. M. Webster (Captain Fourth Frigate Squadron)
HMS <i>Zulu</i>	F124	Cdr M. J. M. Wilkin MBE
HMS <i>Amazon</i>	F169	Cdr A. B. Richardson

Seventh Frigate Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Jupiter</i>	F60	Capt D. G. Armytage (Captain Seventh Frigate Squadron)
HMS <i>Ariadne</i>	F72	Capt T. M. Bevan
HMS <i>Antelope</i>	F170	Cdr B. W. Turner
HMS <i>Danae</i>	F47	Cdr J. S. Ainger
HMS <i>Euryalus</i>	F15	Cdr J. C. W. Lock

Eighth Frigate Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Scylla</i>	F71	Capt G. W. Lowden (Captain P. Cobb, Captain Eighth Frigate Squadron)
HMS <i>Berwick</i>	F115	Cdr W. W. F. Chatterton Dickson
HMS <i>Plymouth</i>	F126	Cdr K. H. Day OBE
HMS <i>Rothesay</i>	F107	Cdr N. C. H. James

SUBMARINE FLOTILLA

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Superb</i>	S109	Cdr D. I. Ramsay (Flagship of Rear-Admiral J. D. E. Field-house, Flag Officer Submarines)
HMS <i>Valiant</i>	S102	Cdr E. S. J. Larken (Captain R. G. Heaslip, Captain S/M Second Submarine Squadron)
HMS <i>Churchill</i>	S104	Cdr R. F. Channon (Captain P. F. Grenier, Captain S/M Third Submarine Squadron)
HMS <i>Dreadnought</i>	S101	Cdr H. K. P. Michell
HMS <i>Oracle</i>	S16	Lt Cdr R. F. Strange (Captain C. E. T. Baker MBE, Captain S/M First Submarine Squadron)
HMS <i>Cachalot</i>	S06	Lt Cdr N. J. K. Crews
HMS <i>Walrus</i>	S08	Lt Cdr M. G. Jones
HMS <i>Sealion</i>	S07	Lt Cdr J. K. Boyle
HMS <i>Osiris</i>	S13	Lt Cdr P. Higgins
HMS <i>Orpheus</i>	S11	Lt Cdr J. B. Taylor
HMS <i>Opossum</i>	S19	Lt Cdr C. L. Wreford-Brown
HMS <i>Ocelot</i>	S17	Lt Cdr P. Branscombe
HMS <i>Opportune</i>	S20	Lt J. F. Perowne
HMS <i>Otus</i>	S18	Lt N. D. V. Robertson

MINE COUNTERMEASURES VESSELS

Fishery Protection Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Cuxton</i>	M1125	Lt Cdr J. J. M. Davies-Webb (Captain P. G. V. Dingemans, Captain Fishery Protection)
HMS <i>Brinton</i>	M1114	Lt A. B. Ross
HMS <i>Alfriston</i>	M1103	Lt J. N. Martin
HMS <i>Shavington</i>	M1180	Lt R. J. Lippiett

Second MCM Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Bossington</i>	M1133	Lt Cdr L. K. Lindsay (Captain D. F. Watts, Captain Mine Countermeasures)
HMS <i>Wilton</i>	M1116	Lt Cdr J. E. S. Thake (Commander R. S. Stenlake, Senior Officer Second Mine Countermeasures Squadron)
HMS <i>Iveston</i>	M1151	Lt D. P. C. Russel
HMS <i>Nurton</i>	M1166	Lt M. O. MacIntyre

First MCM Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Gavinton</i>	M1140	Lt Cdr R. H. Kerr (Commander R. A. Smith, Senior Officer First Mine Countermeasures Squadron)
HMS <i>Maxton</i>	M1165	Lt J. A. Rimington
HMS <i>Bildeston</i>	M1110	Lt P. L. Cornish

Third MCM Squadron

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Shoulton</i>	M1182	Lt Cdr M. Goodman (Senior Officer, Third Mine Countermeasures Squadron)
HMS <i>Glasserton</i>	M1141	Lt Cdr E. W. Andrew

Fast Training Boats

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Cutlass</i>	P274	Lt Cdr J. R. Jameson (Senior Officer First' Fast Training Boat Squadron (FTBI))
HMS <i>Scimitar</i>	P271	Lt A. M. Willmet
HMS <i>Sabre</i>	P275	Lt D. A. Lewis

Tenth MCM Squadron (Royal Naval Reserve)

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Kellington</i>	M1154	Lt J. G. F. Stoy, RNR (Commodore B. K. Perrin, VRD, RNR Commodore List 3 RNR)
HMS <i>Crofton</i>	M1216	Cdr G. R. Hill, RD, RNR (Senior Officer, Tenth Mine Countermeasures Squadron)
HMS <i>Kedleston</i>	M1153	Lt Cdr J. D. Picton, RD, RNR
HMS <i>Hodgeston</i>	M1146	Lt Cdr R. B. M. Fawcett, RD, RNR
HMS <i>Wiston</i>	M1205	Lt Cdr D. Grierson, RNR
HMS <i>Peterel</i>	P262	Lt Cdr T. R. J. Shanks, RD, RNR
HMS <i>Upton</i>	M1187	Lt P. W. James, RNR

SURVEY SHIPS

SHIP	PENNANT NO.	COMMANDING OFFICER
HMS <i>Herald</i>	A138	Cdr C. E. K. Robinson
(Flagship of Rear-Admiral D. W. Haslam OBE, Hydrographer of the Navy)		
HMS <i>Hecla</i>	A133	Cdr R. O. Morris
HMS <i>Hecate</i>	A137	Cdr G. L. Hope
HMS <i>Beagle</i>	A319	Cdr R. E. Hearsey
HMS <i>Fawn</i>	A335	Cdr J. F. Shorthouse
HMS <i>Echo</i>	A70	Lt Cdr P. J. L. Kelly
(Senior Officer Inshore Survey Squadron)		
HMS <i>Enterprise</i>	A71	Lt Cdr D. F. Russell
HMS <i>Bulldog</i>	A317	Lt Cdr C. S. Gobey
HMS <i>Fox</i>	A320	Lt Cdr R. L. Bashforth
HMS <i>Egeria</i>	A72	Lt Cdr C. F. Heron-Watson
HMS <i>Woodlark</i>	M2780	Lt Cdr W. A. Nicholson

MISCELLANEOUS UNITS

Naval Hovercraft Trials Unit		
Cdr N. T. Bennett AFC		
HMS <i>Lynx</i>	F27	Lt Cdr G. A. Cole MBE
HMS <i>Isis</i>	M2010	Lt Cdr A. Pearson
HMS <i>Eastbourne</i>	F73	Lt Cdr C. K. D. Cobley
HMS <i>Reclaim</i>	A231	Lt Cdr K. D. Kempshall GM
HMS <i>Flintham</i>	M2628	Lt Cdr R. J. Pike
HMS <i>Dittisham</i>	M2621	Lt M. Bennett
HMS <i>Laleston</i>	M1158	Lt Cdr D. A. Bartlett

SHIPS OTHER THAN WARSHIPS

Royal Fleet Auxiliaries

RFA <i>Gold Rover</i>	—Commodore S. C. Dunlop MBE	
RFA <i>Lyness</i>	—Capt S. E. Clench RFA	
<i>Tidespring</i>	—Capt P. J. McCarthy RFA	
<i>Olwen</i>	—Capt A. Proudlock RFA Engadine—	
Capt C. G. Butterworth RFA <i>Stromness</i> —Capt		
A. W. Stanley RFA <i>Sir Geraint</i> —Capt D. A.		
Reynolds RFA <i>Sir Tristram</i> —Capt M. W. Salt		
RFA <i>Pearleaf</i> —Capt C. A. P.- Wydenbruck		

Royal Maritime Auxiliary Service

RMAS <i>Newton</i>	—Capt A. E. Greiner	
RMAS <i>Roaster</i>	—Capt R. F. Dunkley RMAS	
RMAS <i>Goosander</i>	—Capt A. McGregor RMAS	
RMAS <i>Waterwitch</i>	—Lieut Cdr J. T. K. Paisley RN (Rtd)	

Royal Naval Auxiliary Service

XSV <i>Portisham</i>	—SNXO P. Newell. XSV	
<i>Shipham</i>	—SNXO K. J. Snowdon XSV	
<i>Loyal Proctor</i>	—SNXO I. Macdonald XSV	
<i>Puttenham</i>	—CNX D. Thomas XSV	
<i>Tongham</i>	—PNXO R. Paterson XSV	
<i>Loyal Moderator</i>	—SNXO H. R. Moyle XSV	
<i>Pagham</i>	—CNX D. F. Edminson XSV	
<i>Thakeham</i>	—CNX J. Spall XSV	
<i>Chancellor</i>	—CNX D. W. Bulloch	

Royal Corps of Transport

HMAV <i>Audemere</i>	—Capt P. J. Robyns RCT	
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Corporation of Trinity House

THV <i>Patricia</i>	—Cdr P. Inman THS (Flagship of The Elder Brethren of Trinity House, Deputy Master Captain M. B. Wingate THS)	
THV <i>Winston Churchill</i>	—Cdr G. Roberts THS	

Commissioners of Northern Lighthouse Board

MV *Pharos*—Capt S. K. Davidson

Commissioners of Irish Lights

ILT *Granuaile*—Capt G. Kinsella

HM Customs and Excise

HMRC *Venturous*—R. G. Bayly

HM Coastguard

MV *Miranda*—Cdr D. Y. Roberts RN (Retd)

Royal National Life-boat Institution

RNLB *City of Bristol*—Clovelly—T. Nutman

RNLB *Joy and John Wade*—Yarmouth IOW

—Capt R. Harding

RNLB *Charles Henry*—Selsey—Lieut Cdr A. M. Woodruffe RNR

General Council of British Shipping

SS *British Respect* (BP)—Commodore A. Davies

SS *Opalia* (Shell Tankers (UK) Ltd)—Capt S. F. Darroch **RD RNR** (Commodore, Shell Tankers)

MS *Manapouri* (P & O Steam Navigation Company)—Captain R. E. Lowther

MS *Ferring* (Stephenson Clarke Shipping Ltd)

—Capt J. M. Johnson

MS *Singularity* (F. T. Everard and Sons Ltd) MV *Viking Valiant* (European Ferries)

Capt A. Shopland

Min. of Agriculture, Fisheries and Food

FRV *Cirolana*—Capt T. H. Finn

Department of Agriculture and Fisheries, Scotland

FPV *Norna*—Capt G. M. Coull

Fishing Vessels

Princess Anne—P. Craven Boston Deep Sea Fisheries Ltd

St Patrick—D. W. Besford Colne Fishing Company Ltd

Glen Clova—J. Marr and Sons Ltd

Macandi—L. Hojbjerg Delga Fish Co Ltd

Jannie Marie—J. Perkes Brixham and Torbay Trawlers Ltd

Natural Environment Research Council

RRS *Bransfield*—Capt R. Lawrence

The Post Office

CS *Iris*—Capt I. J. L. Lang RD RNR (Rtd)

British Rail

MV *Sarnia* (Channel Island Ferry)—Capt C. Barker

British Tug Owners Association

Lady Vera—P. Grimble

Sail Training Association

STS *Sir Winston Churchill*—Capt R. W. Rowe

STS *Malcolm Miller*—Capt J. B. Swindells

Sea Cadet Corps

TS *Royalist*—Lieut Cdr F. Drake MVO RNR

Gordonstoun School

Yacht *Sea Spirit*—Cdr D. Edleston RN (Retd)

HM Sail Training Yachts

Royal Navy—*Adventure, Chaser, Dasher, Racer, Crusader, Explorer*

Army—*British Soldier, Kukri, Trumpeter,*

Bugler, Piper, Drummer, Fiddler, Fluter,

Cannonade, Rampart, Skirmisher, Lancer,

Patroller, Galloper, Raider, Attacker

RAF—Lord *Trenchard, Lord Portal*

Seamanship Training Craft

Wyvern, Pegasus, Gryphis, Leopard, Martlet,

Thunderflash, Flashlight, Blue Eye, Trade

Wind, East Wind, West Wind, Hindostan

FOREIGN AND COMMONWEALTH WARSHIPS

AUSTRALIA

HMAS <i>Melbourne</i>	21	Commodore R. C. Swan CBE RAN
(Flagship of Rear-Admiral G. V. Gladstone AO DSC RAN)		
HMAS <i>Brisbane</i>	41	Capt R. W. Burnett RAN

BELGIUM

BNS <i>Westdiep</i>	F911	Capitaine de Fre-gate M. Verboven B1
(Flagship of Vice-Admiral J. P. L. Van Dyck BN—Chief of Naval Staff)		

BRUNEI

KDB <i>Pahlawan</i>	P01	Major C. B. York RBMR
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CANADA

HMCS <i>Huron</i>	281	Cdr L. J. Cavan CD CF
(Commodore W. A. Hughes CD CF)		

DENMARK

HDMS <i>Moen</i>	N82	Cdr G. Mathiesen RDN
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FRANCE

FS <i>Duquesne</i>	D603	Capitaine de Vais-seau A. Duthoit FN
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(Flagship of Vice-Admiral Wacrenier FN—Prefect Maritime, Premier Region)

FEDERAL GERMAN REPUBLIC

FGS *Hamburg* D181 Fregatten Kapitän

H. Boettcher FGN

(Flagship of Rear-Admiral K. äääääääää

FGN —Commander, Destroyer

Flotilla) GREECE

HS *Lieutenant Troupakis* P52 Lt Cdr G. I. Zo-graphos HN

INDIA

INS *Udaygiri* F35 Capt K.N.Dubash IN

IRAN

IINS *Kaman* P221 Lt Cdr Saeed Zanganeh IIN

IINS *Zubin* P222 Lt Farid Asghar-zadeh IIN

ITALY

ITNS *Ardito* D550 Capitano di Vas-cello S. Majoli ITN

THE NETHERLANDS

HNLMS *Tromp* F801 Capt J. H. Scheuer RNLN

(Flagship of Rear-Admiral J. H. B. Hulshof RNLN—Commander, Netherlands Task

Group)

NEW ZEALAND

HMNZS *Canterbury* F421 Capt L. J. Tempero RNZN

NORWAY

HNoMS *Narvik* F304 Cdr E. H. Hellgren RNoN

PORTUGAL

PoNS *Almirante Magalhaes Correa* F474 Cdr R. F. Corte Real Negroe PoN

TURKEY

TNS *Berk* D358 Staff Lieut Cdr Onder Utzan TN (Flagship of Rear-Admiral Emin Goksan TN)

UNITED STATES

USS *California* 36 Capt W. O. Rentz USN

(Flagship of Rear-Admiral John C. Dixon Jnr USN—Commander Sixth Carrier Group)

USS *Billfish* 676 Cdr D. Volgenau USN



THE FLEET AIR ARM FLY PAST

The Fly Past will consist of 150 aircraft representing all the types at present in service with the Fleet Air Arm and including some which are not yet in squadron service. The Fly Past will be led by the Flag Officer Naval Air Command, Rear-Admiral J. O. Roberts, CB, flying a Wessex aircraft.

The Flag Officer Naval Air Command is responsible for the organisation of the Fly Past. Aircraft will be drawn from the carriers, cruisers and anti-submarine frigates taking part in the Review, the Royal Marines and from all the Naval Air Stations of the Naval Air Command. The Squadrons taking part are:

FIRST WAVE

A single Wessex—Rear-Admiral J. O. Roberts CB, Flag Officer Naval Air Command; Officer in Command of Fly Past.

Port Wing

700L Squadron (Lynx)—Intensive Trials Squadron
705 Squadron (Gazelle)—Pilot Training Squadron
3rd Commando Brigade Air Squadron, Royal Marines (Gazelle)—Aerial Command, Recce and Communication Squadron

Centre

737 Squadron (Wessex Mk 3)—Anti-Submarine Advanced Operational Training Squadron
Flights from Guided Missile Destroyers in the Review (Wessex Mk 3)—Anti-Submarine Flights
771 Squadron (Wessex Mk 1)—Search and Rescue and Aircrewman Training Squadron

Starboard Wing

703 Squadron (Wasp)—Anti-Submarine Advanced Operational Training Squadron
829 Squadron (Wasp)—Anti-Submarine Headquarters Squadron
Flights from Frigates in the Review (Wasp) — Anti-Submarine Flights

SECOND WAVE

Port and Starboard Wings

845 Squadron (Wessex Mk 5), 846 Squadron (Wessex Mk 5), 707 Squadron (Wessex Mk 5)—Squadrons supporting the Royal Marine Commando Forces

Centre

814 Squadron (Sea King), 819 Squadron (Sea King), 820 Squadron (Sea King), 824 Squadron (Sea King), 826 Squadron (Sea King)—Anti-Submarine Squadrons from Carriers and Cruisers
706 Squadron (Sea King)—Anti-Submarine Training Squadron
817 Squadron (Sea King) (RAN)—Anti-Submarine Squadron from HMAS *Melbourne*

THIRD WAVE

(Fixed Wing Aircraft)

849 Squadron (Gannet Mk 3)—Airborne Early Warning and Radar Reconnaissance Squadron (HMS *Ark Royal*)
FRADU (Canberra)—Fleet Requirements and Aircraft Direction Unit
809 Squadron (starboard) (Buccaneer)—Strike/Reconnaissance/Group Attack Squadron (HMS *Ark Royal*)
892 Squadron (port) (Phantom)—All weather Fighter Squadron (HMS *Ark Royal*)
FRADU (Hunter)—Fleet Requirements and Aircraft Direction Unit

The largest and oldest visiting warship is the Australian aircraft carrier—HMAS *Melbourne* of 19,960 tons which was built at Barrow-in-Furness in 1945. The newest ship is the Greek Navy's missile launcher *Lieutenant Troupakis*, completed this year. The only nuclear-powered surface warship at the Review is the United States 10,000-ton cruiser *fornia*. This has a speed of more than 30 knots. Another very fast ship present is the 57-knot missile attack craft of the Royal Brunei Malay Regiment which was built at Portsmouth by Vosper Thornycroft Ltd.

ABOVE: *HMS Hermes*, an anti-submarine warfare ship. (see next page)



Warships of the Royal Navy

Polaris Submarines

The Royal Navy has four nuclear-powered Polaris submarines, each of which can carry 16 missiles: a fire-power greater than all the bombs dropped by both sides during World War II. Once at sea, the Polaris submarine is lost to the enemy, its almost unlimited endurance allowing it to range the oceans freely with little fear of detection. It is independent of shore bases and because of its nuclear propulsion and air-purification system it does not surface for air. Its massive bulk displaces 8,400 tons dived. The three decks offer accommodation which is unusually spacious for a submarine and good domestic facilities are provided for the crews. Each submarine has two crews, known as Port and Starboard, to provide optimum use of these costly vessels. Polaris is a two-stage ballistic missile powered by solid-fuel rocket motors. It is 31 feet long, 4 feet 6 inches in diameter and weighs 28,000 pounds. Fired from the ocean depths by a nuclear-powered submarine, it can devastate a target 2,500 nautical miles away. It should be noted that there are no Polaris submarines at the Review emphasising the fact that Britain's deterrent is deployed 24 hours a day throughout the whole year. Britain's four Polaris submarines are named *Resolution*, *Revenge*, *Renown* and *Repulse*.

Fleet Submarines

Nuclear-powered but conventionally armed fleet submarines (SSNs) provide the main striking power of the Fleet and are the most effective anti-submarine warfare weapons available to the maritime commander. They are capable of patrols at continuous high underwater speed, independent of base support, and can circumnavigate the globe without surfacing. Their endurance and sophisticated weapon systems make them formidable adversaries. Space is naturally restricted, but living conditions are unusually comfortable. Fleet submarines have three decks and displace 4,500 tons dived. The first, *Dreadnought*, became operational in 1963. Built in Britain but powered by an American nuclear plant, she has been followed by the all-British *Valiant* class: *Valiant*, *Warspite*, *Churchill*, *Conqueror* and *Courageous*. Now, a further modified class, the Swiftsures, are in service: *Swiftsure*, *Sovereign* and *Superb* have been completed; *Sceptre*, *Spartan* and one other are being built. Four SSNs are in the Fleet gathered here.

Patrol Submarines

Submarines with conventional diesel-electric power continue to be very important. Their underwater endurance is not as great as that of nuclear submarines, but they are fast, silent and

difficult to detect. A total of 18 ships of the *Oberon* and *Porpoise* classes are in the Submarine Flotilla and 10 are at this review.

Aircraft Carrier

The aircraft carrier *Ark Royal* (the Flagship of the Commander-in-Chief Fleet) is a mobile airfield of great strategic importance. She can, if necessary, launch strike aircraft to attack an enemy with nuclear or conventional weapons, jet fighters armed with guided weapons to deal with air attacks, and helicopters to detect and destroy submarines. Although completed in 1955, she has been fully modernised. The standard displacement is 43,000 tons, she is 846 feet long, has a beam of 168 feet and a ship's company of 2,570. She carries Phantom, Buccaneer, Gannet, Wessex and Sea King aircraft.

ABOVE: An impressive display of sea power; HMS *Ark Royal* at speed in a lively sea. Her Phantom, Buccaneer and Gannet aircraft are seen on the flight deck; the steam catapult from which an 18-ton aircraft can be launched at 160 mph is on the port side of the ship (right side of photograph).

NOTE: HMS *Hermes* is illustrated on the preceding page; photographs of the *Polaris* and *Fleet* submarines are reproduced on pages 15 and 16.

Helicopter Cruisers

Two *Tiger* class cruisers, *Blake* and *Tiger*, have been reconstructed as helicopter cruisers with facilities for directing naval forces. Each cruiser has four Sea King anti-submarine helicopters. The forward part of the ship retains the traditional cruiser lines, but the after part has been rebuilt to provide the hangar and flight-deck. The successor to these ships will be the *Invincible* class. HM Ships *Blake* and *Tiger* are present at the Review, the latter as Flagship of the Flag Officer Second Flotilla.

Anti-Submarine Warfare Ship

HMS *Hermes* was converted to an anti-submarine warfare (ASW) carrier in 1976. She is equipped with Sea King and Wessex 5 helicopters. At this review, HMS *Hermes* is flying the flag of Flag Officer Carriers and Amphibious Ships (FOCAS).

Guided-Missile Destroyers

County class guided-missile destroyers were built armed with Seacat and Seaslug missile systems, two modern twin 4.5-inch gun turrets and equipped with a Wessex anti-submarine helicopter. Later ships were fitted with Action Data Automation and four ships have been fitted with Exocet missile mountings in place of the second gun turret. HMS *Norfolk* was converted in 1973, followed by HMS *Glamorgan*, *Antrim* and *Fife*. The main propulsion systems of the ships are backed up by gas-turbine boost machinery which provides extra speed when under way or when leaving port. Six County class ships are present for the Review, with Flag Officer First Flotilla flying his flag in HMS *London*.

HMS *Bristol*, the only Type 82 destroyer, has joined the fleet as proving ship for the Sea Dart missile system and the Ikara anti-submarine weapon. HMS *Bristol* is not at the review.

Assault Ships

HMS *Fearless* and HMS *Intrepid* are the most versatile vessels yet built by the Royal Navy for amphibious warfare. Each is fitted out as a naval assault group/brigade headquarters, from which naval and military personnel, working in close co-operation, can mount and control an amphibious operation. They can transport a military force complete with full

RIGHT (top to bottom): A conventional diesel-electric powered patrol submarine; HMS *Blake*, a *Tiger* class helicopter cruiser, with one of her Wessex helicopters. Aft of the second funnel is the hangar and flight deck for her four helicopters; HMS *Glamorgan*, a County class destroyer. Between the forward gun and the bridge her Exocet missile system can be seen; HMS *Fearless*, an amphibious assault ship. Beneath the flight deck tank-carrying landing craft are housed.





supporting armour. Landing craft, capable of carrying heavy tanks, are housed in the ship's dock and launched from the open stern. The ships can operate a flight of assault helicopters and are armed with the Seacat guided-missile system and two 40-mm Bofors guns. One assault ship is also used as the Dartmouth Training Ship, providing young officers with their first sea experience. HMS *Fearless* is at the review.

Sheffield Class Destroyers

HMS *Sheffield* and HMS *Birmingham* of this class have already entered service and six more are under construction. Four of them, HM Ships *Cardiff*, *Coventry*, *Glasgow* and *Newcastle*, have already been launched. A further ship of this class has been ordered. They displace 3,500 tons, have a length of 410 feet, a beam of 47 feet and are powered by Rolls-Royce Olympus and Tyne gas turbines. The armament includes a new automatic rapid fire 4.5-inch gun, anti-submarine torpedo tubes and the new Sea Dart missile system. They will operate a Lynx helicopter. HMS *Birmingham* has been chosen as the Admiralty Board yacht for this review and HMS *Sheffield* is in the lines.



Amazon Class Frigates

HMS *Amazon*, the first of a new class of commercially designed frigates (Type 21), was accepted into service in 1974 and was followed by HMS *Antelope*, *Ambuscade*, *Arrow*, *Active* and *Alacrity*. Two other ships are under construction: *Ardent* and *Avenger*. They displace 2,500 tons, have a length of 384 feet, a beam of 42 feet, and are powered by Olympus and Tyne gas turbines. They are armed with a new automatic rapid fire 4.5-inch gun, the Seacat missile system, and operate a Wasp antisubmarine helicopter (to be replaced by the Lynx). The Exocet missile system is being fitted in HMS *Active*, *Alacrity*, *Arrow*, *Ardent* and *Avenger*, and other ships of the class will be fitted at a future date. Four of this class are here today.



Rothsay Class Frigates

The nine *Rothsay* class anti-submarine frigates have been modernised to operate Wasp helicopters and the Seacat missile system. Other improvements include full air-conditioning, modernised operations room, better communications facilities and an improved gunnery control system. Four ships of this class are present.

Leander Class Frigates

The Royal Navy's most numerous frigates are those of the *Leander* class, totalling 26 ships. Equipped to perform a general-purpose role, they are capable of engaging ships, aircraft and shore targets in addition to their primary role of submarine detection and destruction. Their original armament consisted of a triple-barrelled anti-submarine mortar,

