

SUEZ CANAL CLEARANCE OPERATION RELEOSTAT 1974



A small part of the waterway that was to become very familiar

Editor's Note

I am indebted to The Plessey Co. Ltd, the Ben Line Steamers, Kelvin Hughes, Ruston Paxman Diesels Ltd, Ferranti, and Siebe Gorman for their most generous donations towards the cost of producing this book; the Directorate of Public Relations (Royal Navy) for providing most of the photographs; the United States Navy Public Affairs Department; my sister Liz for typing the manuscript; Herbert Rees for his invaluable advice and assistance in reading the proofs; the various contributors named in this book; and many other unnamed helpers.

In this short book I have not attempted to set forth the whole of Operation RHEOSTAT; that would have needed a volume much bigger and more detailed. Instead I have tried to highlight some of the more significant and memorable aspects of the Operation as I saw them.

James C. Rapp

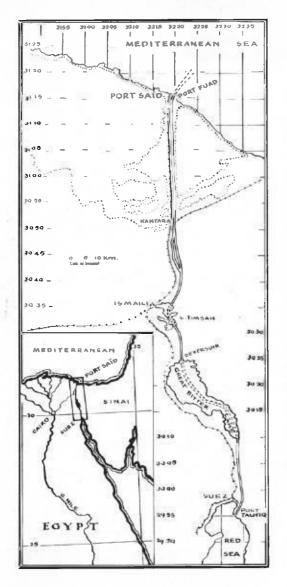
Suez Canal Clearance

Operation RHEOSTAT

April—November 1974

A tale of the experiences of Task Group 65.2: Her Majesty's Ships

> ABDIEL BOSSINGTON MAXTON WILTON and the FLEET CLEARANCE DIVING TEAM





▲ ABDIEL enters Alexandria



The Fleet Clearance Diving Team on **b** the wreck *MECCA*

Foreword



I am sure that anytime the Royal Navy men who took part in Operation RHEOSTAT/NIMBUS MOON look back on their time in Egypt, they will do so with pride.

It has been a great pleasure for me personally to have had the opportunity to work closely with the officers and men of HMS *Abdiel*, *Bossington*, *Maxton* and *Wilton*, and the Fleet Clearance Diving Team.

The Royal Navy has a tradition of bringing a high degree of professionalism and drive into any operation. This was continually evident throughout our combined Suez Canal efforts.

I wish to express my extreme appreciation to all of you for your truly outstanding performance with Task Force 65.

Respectfully,

K. J. CARROLL Rear Admiral, US Navy COMMANDER TASK FORCE 65

Our Competitors

The Americans

USS *IWO JIMA* 21 April–13 May USS *INCHON* 13 May–4 June



▲ USS /WO JIMA at anchor off Port Said

USS BARNSTABLE COUNTY 10 June-9 October USS BOULDER 9 October onwards



▲ USS BARNSTABLE COUNTY at anchor in Lake Timsah (C & S Taylor)

The French

During Operation RHEOSTAT the following ships joined us for various periods:—

FS ACANTHE FS GIROFLEE FS GARDENIA FS LILAS FS AJONC



FS ACANTHE enters Lake Timsah

A Brief History of the Suez Canal

by

Surg. Lt. Cdr. C. W. Evans

The early history of the Red Sea Canal is confused and uncertain. Ideas are based on the interpretation of pictures and engravings, and different observers will often reach different conclusions. Probably in early times the Red Sea and the Mediterranean met where the Isthmus of Suez now lies. The country on either side was then very different. Rain fell and the vast areas of what is now desert were grassy plains.

By 2000 B.C. the land had risen and the seas were divided. Lake Timsah and the Bitter Lakes were still part of the Red Sea but between the sites of the modern towns of Ismailia and El Kantara there was dry land. The Nile in those days had seven branches and the most easterly, the Pelusiac branch, passed within thirty miles of Ismailia on its way to the sea near El Kantara. The first canal linking the Mediterranean and the Red Sea ran from what is now Lake Timsah to this branch of the Nile near the presentday town of Zagazig.

This canal existed from 2000 B.C. until the Persian conquest. It saw the arrival of the Children of Israel in Egypt after famine had driven them from their own lands. It saw their rise to power, probably during the time of the Pharaohs Ikhnaton and Tutankhamon, and it saw their enslavement under Rameses II and the Exodus either during the reign of Rameses II or his son Merneptah. Where Moses led his tribe across the Red Sea is not known but perhaps they crossed between Suez and Ismailia helped by strong winds and spring tides. The Pharaoh who lost his army when the sea returned was not the last Egyptian leader to suffer a reverse at the hands of the Israelis.

In 510 B.C. the Persians conquered Egypt, and Darius I repaired the canal of the Pharaohs. The Bitter Lakes were becoming separated from the Red Sea by this time owing to the rising of the land, and communication with the Red Sea was only possible during the Nile flood.

In 333 B.C. Alexander conquered Egypt and in 288 B.C. Ptolemy II redug the Persian Canal and dug a new section linking the Bitter Lakes to the Red Sea.

In 30 B.C. the Romans came to power in Egypt and in A.D. 98 the Canal, which had fallen into disuse owing to the drying up of the Pelusiac branch of the Nile, was revived, redug and extended to Cairo. This Canal existed until the end of the eighth century when it was filled in and the Mediterranean and the Red Sea were separated for eleven centuries. Lake Timsah dried up, existing only as a dry depression, and the water level in the Bitter Lakes was much lower than it is today.

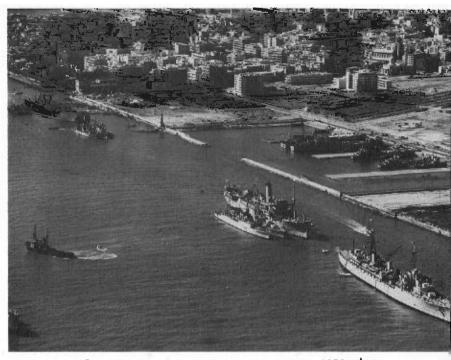
The building of the Suez Canal by de Lesseps between 1859 and 1869 was an enormous undertaking. Before any work could begin a fresh-water canal from Cairo to Ismailia had to be built to provide water for the work force, and this took from 1856 to 1859. The de Lesseps Canal was only 60 metres wide and 6.5 metres deep but much of the work had to be done by hand and 120,000 men died building it. The Canal was then run successfully under British and French control, attracting a growing volume of trade and being enlarged on various occasions until by 1956 nearly all of it was 200 metres wide at water level and 11.3 metres deep. The Egyptians have since widened a few sections and dredged it to 38 feet.

In 1956 President Nasser nationalised the Canal, the Israelis invaded Egypt, the Canal was blocked with a number of sunken ships and the French and British invaded to protect their interests in the Canal Zone. The Canal was re-opened in 1957 and ran successfully under Egyptian control for ten years. In 1967 during the June War the Canal was again blocked by the Egyptians with twelve ships, and fourteen ships were trapped in the Bitter Lakes. The Israelis occupied Sinai and the East Bank of the Canal.

During the seven years up to October 1973 a vast quantity of ordnance was dropped or deliberately placed in and around the Canal and most of the equipment and installations were damaged or destroyed. The cities and towns of the Canal Zone were bombed and shelled, the civilian population left and the whole area came under military control.

On 6 October 1973 the Egyptians launched attacks across the Canal at five main points between El Kantara and Suez. The first Egyptians across the Canal were commandos who successfully destroyed the Israeli napalmspreading devices and captured bridgeheads on the East Bank. Water cannon were then used to cut gaps in the steep sand-walls of the Canal. Eventually twelve pontoon bridges and some fifty ferries were carrying men and equipment to the East Bank.

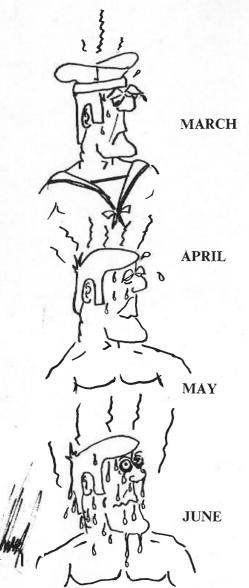
On 15 October the Israelis began their counter-attack across the Canal. Once their tanks had established a bridgehead at Deversoir, other Israeli units crossed and



Royal Naval ships in Port Said during the crisis 1956

within three days they had built a causeway across the Canal. The Israeli forces turned south to Suez and north to Ismailia cutting off the Third Army on the East Bank and capturing or destroying the surface-to-air missile sites on the West Bank that had caused such losses to the Israeli Air Force.

After fifteen days of fighting, a ceasefire was called on 22 October and the Israelis later withdrew into Sinai. With a thin buffer zone established and patrolled by a United Nations Emergency Force, Egyptian troops were again able to return to the Canal's East Bank. The international clearance operation in the Suez Canal started in 1974 in this uneasy state of peace.



Calendar of Events

It was a long hot summer

- Wilton, Bossington sailed from Portland 19
 - Abdiel, Maxton sailed from Rosyth 20
 - Abdiel, Maxton called at Portsmouth 22-23
 - 23 29Wilton, Bossington at Gibraltar
 - Abdiel, Maxton at Gibraltar 27-29 RN Task Group assembled

- Task Group called at Malta 3 - 4
- 7 Task Group arrived at Port Said
- Search of approaches to Port Said and Port Said harbour by minehunters 8-29
- Fleet Clearance Diving Team (FCDT) arrived in Cairo 11
- USS Iwo Jima, with AMCM helicopters embarked, arrived off Port Said 21
- 23 28Maxton, Bossington visited Cyprus
 - RN minehunting and diving operations commenced in the Canal
- 13 USS Inchon relieved USS Iwo Jima
- 24 Wilton reached Ismailia
- Abdiel transitted south to Ismailia 29 Task Group commenced operations from Ismailia Murphy Pacific started removal of wrecks (Operation NIMROD SPAR)
- 1 6Wilton visited Cyprus
- 3 US AMCM operations completed (end of Operation NIMBUS STAR)
- 4 USS Inchon departed

June (cont.)	8-13 Maxton visited Cyprus
	13 Royal Fleet Auxiliary <i>Bacchus</i> called at Port Said—first merchant ship to enter the port since 1967
	14 French Task Group of two minesweepers arrived at Port Said
	14–19 Bossington visited Cyprus
	21 French started diving operations
	25 Bossington first ship to pass through Deversoir Causeway and enter Great
	Bitter Lake
JULY	14 <i>Maxton</i> completed first transit of Canal to the south and commenced operations
UCLI	in Suez Bay
	22 Operation NIMBUS MOON (land) completed
	24-30 Abdiel, Wilton visited Malta
	31-August 6 Maxton visited Malta
AUGUST	7-13 Bossington visited Malta
SEPTEMBER	7 FCDT departed from Cairo
	17-24 Abdiel, Wilton visited Malta
	24-October 1 Maxton visited Malta
	28-October 15 Maintenance periods at Port Said
OCTOBED	1 Descinator demonted from Dent Soid to new off of Cibrolton
OCTOBER	1 Bossington departed from Port Said to pay off at Gibraltar
	15-31 Task Group operated from Ismailia
NOVEMBER	1 Operation RHEOSTAT completed. Abdiel, Maxton, Wilton departed from
	Ismailia
	3-7 Abdiel, Maxton, Wilton visited Alexandria
	21 Abdiel, Maxton, Wilton returned to Portsmouth
	Task Group 65.2 disbanded

Task Group 65.2 Enters Port Said

دار « الأهرام » القاهرة : شارع الجلاه ت ٢٢٢٤ المتقدرية : ١٠ طريق الزعم جمال عبد الناصر ت ٢٠٠٠٠ المتوان الطغرامي : الاهرام بوالقاهرة

اهرة : دار « الاهسرام » شسسارع الجلاء برية :دار «الاهرام» ١٠ هريقالزعيم جمال مبدالناص

لة جنيهسات مصرية لسسنة كامسلة شا لستةاشهر 100قرشا لثلاثةاشهر مصاريف البويد بالنمية للاشتراكات الغارجية

Our arrival made headlines in Al Ahram, Egypt's principal newspaper:



in English:

THE CANAL CLEARANCE WILL START THIS WEEK TO PREPARE THE CANAL FOR INTERNATIONAL NAVIGATION WITHIN A YEAR

The British minehunters enter Port Said to work with the American helicopters on the mapping of the Canal bed

In the British Press

'Clearing the ammunition dump that *The Times* used to be the Suez Canal'

'Death and danger lurk as Suez is *Morning Star* made ready for shipping'

'Operation Deathtrap'

Daily Express

'The most explosive catch of them all' The Sun

'Surgery on Suez'

Daily Telegraph Magazine

'You need a sense of humour for this Reuter job'





Port Said—A liberty capital ?! >

Operation Rheostat

The arrival of Task Group 65.2 at Port Said was in a very different context to the last Royal Naval entry. Whereas in 1956 Britain (and France) had been attempting to seize the Suez Canal, our Task Group entered to offer assistance to Egypt. The Egyptians' welcome was warm; at once it was apparent that the friendship fostered in bygone days was still very strong. We were greatly respected by everyone we met, and the Suez Canal Authority (SCA) made great efforts to give us all we required.

The early days, however, proved to be very frustrating. The disciplined and punctual approach to life fostered in the Royal Navy differs widely from an Egyptian's outlook, in which time is no object. Many of us found this hard to accept, especially after so much effort had been made to ensure that the Task Group reached Port Said as quickly as was humanly possible. As time wore on, we did come closer to understanding the Egyptian viewpoint, but throughout the Operation there were many trials. Our worst headache of all was caused by the unbelievable complications that always accompanied requests for pontoon bridges to open to permit passage for ships of the Task Group. A whole book could be written on this subject alone.

When the helicopter-carrier USS *Iwo Jima* arrived on 21 April the minehunters were hard at work searching Port Said harbour and its approaches. Entry into the Canal proper was delayed until 1 May to allow the Americans to commence their airborne sweep for magnetic and acoustic

mines. The initial plan was for the minehunters to search the whole width of the Canal to three metres depth on either bank and for the Fleet Clearance Diving Team (FCDT), following behind with Egyptian divers, to detonate any explosives found. The minehunter's sonar, however, proved ineffective when used to search the area close to the banks. Thus the FCDT and Egyptian divers, operating independently, completed a search of both banks to between three and eight metres depth while the minehunters searched only to eight metres.

The minehunters remained on task for four to eight days at a time. Working a twelve-hour day from dawn till dusk, everyone stayed closed up at minehunting stations with only short breaks for meals and perhaps 'hands to bathe'.

BOSSINGTON's divers detonate a 500-lb bomb 🔻



The six clearance divers borne in each ship were always in the limelight—they carried out a dangerous job superbly. Nevertheless in less glamorous ways everyone was important and deserves praise. With the temperature regularly over 100°F., conditions were most unpleasant. Great perseverance, determination and dedication were required to overcome the boredom and monotony of doing the same job for so long in the same desolate environment.

On 29 May, when *Abdiel* transitted south to go to specially laid buoys in Lake Timsah, she became the first ship of her size to reach Ismailia since 1967. *Wilton* had arrived there five days earlier. Ismailia's position half-way down the Canal made it easier for *Abdiel* to continue giving the essential support and maintenance required by the advancing minehunters. *Abdiel* sent regular supplies by road to the minehunters on task, attempting to meet their essential needs and to provide fresh food. On many occasions the rating accompanying the transport encoun-



tered the most unlikely situations, such as, we felt, could only have happened in Egypt.

Mention must be made of the support party of maintainers borne in *Abdiel*. These men helped keep the ships running efficiently with the minimum of defects. On no other occasion have minehunters operated away from base for so long.

Recreation within the Canal Zone was very limited and only on our departure was Port Said starting to liven up. Before the 1967 war the town had a population of over 300,000, but when we arrived the place was almost deserted. Only two hotels and a single restaurant were open; apart from a few bars, we had nowhere to go. Perhaps that was fortunate because initially leave ended at 1800 daily. Ismailia had even less to offer; consequently few went ashore for anything other than sport or to enjoy the generous hospitality of the Canadian United Nations contingent. Chief PTI Evans ran several sports leagues for Abdiel's ship's company, while his namesake, Lt Cdr Evans, devised three highly successful games of 'It's a Cock Up', based on television's 'It's a Knock Out'. Sailing was always popular and by September we had no less than five dinghies to our name. Most people went to Cairo on trips organised by the SCA-we just had to see the Pyramids! The SCA staged various oriental shows for us, but to most European eves one belly-dancer is much the same as the next.

Owing to the lack of recreation all the ships of the Task Group enjoyed visits away from the Canal Zone. Before the Cyprus crisis occurred these were to Famagusta, and afterwards to Malta. Fortunately the Cyprus crisis had little effect otherwise on the Operations, although on a couple of occasions the RAF resupply flights from Akrotiri failed to arrive. This caused problems in *Abdiel* owing to her limited refrigerated storage space.

Our part of the Anglo-French-American-Egyptian operation in the Suez Canal attracted enormous interest from all corners of the world and, in the first ten days alone, no less than two hundred journalists visited us. The Middle East press was for ever present. Once a hundred journalists arrived for a demonstration when only forty had been expected. On such occasions there was never any lack of 'naval spokesmen'; many previously hidden talents were revealed in front of microphone or camera.

Operation RHEOSTAT continued relentlessly throughout the summer. On 25 June *Bossington* became the first ship to pass through the then partially breached causeway at Deversoir. Operations in the Bitter Lakes were completed sooner than expected, apart from areas of water which were found to be even more saline than the Dead Sea. On 14 July *Maxton* completed the first full passage of the Canal since 1967 and started searching the large anchorages in Suez Bay. While operating in Suez Bay in September, *Bossington* had a surprise when the ship's sonar guided her divers to an uncharted wreck. This proved to be the *Misr*, an ex-RN Flower-class corvette, sold to Egypt after the Second World War. The *Misr* had sunk after a collision in 1953. The FCDT returned to UK on 7 September and *Bossington* departed on 1 October to pay off for refit at Gibraltar. Many other events might be mentioned, but space precludes them.

After numerous farewells and thankyou's from the SCA and the Egyptian Navy, we left Ismailia on 1 November to spend four days in Alexandria, the first visit by the Royal Navy for sixteen years.

While far away from home and in a rather unpleasant environment, we often failed to appreciate the value of our task. Nevertheless no one will ever forget his time in Egypt. The Task Group's send-off from Port Said was very moving; the Egyptians appeared extremely sad to see us go.

Passage through the Canal

We had to negotiate several obstacles . .

Deversoir

Built by the Israelis in the October War of 1973, this causeway formed **a** four-lane highway between Sinai and the West Bank





MECCA

Largest of the nine wrecks in the Canal

Suez Sayings

EGYPTIAN

BRITISH

If Allah wishes (he usually doesn't)

It will be here in about two hours time-but during

Ramadan or on a Friday, it won't come at all

It may be here tomorrow or the next day

Maalesh

Yimpkin

Imshallah

It will be here after ten minutes

It will come today

Tomorrow

After tomorrow

It is in Cairo

Hello Mista! I am an intellectual, I know two English words

There is none available

It doesn't really matter

Maybe, perhaps

Next week

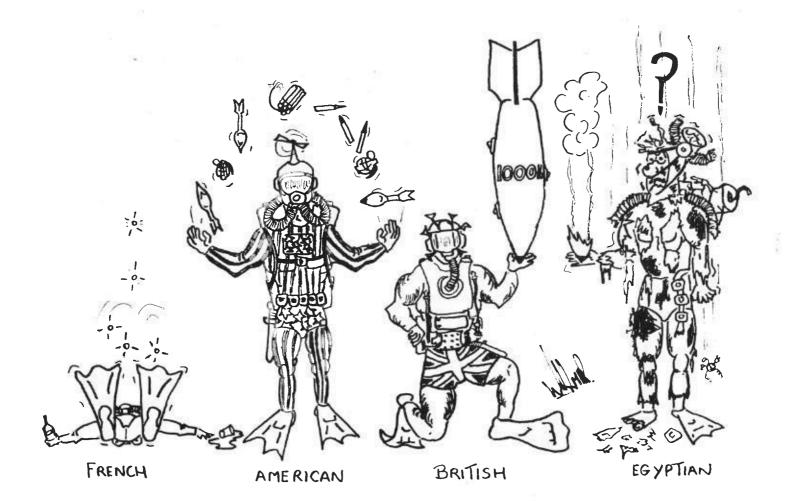
Never

What is the time? I am an English linguist, I know more than two English words

For a while we tried, unsuccessfully, to conform to the Islamic week



Each nation's divers used rather different methods!





Diving from the NADA

by Lt. Cdr. R. W. White MBE

Bob White, at 31, looks a hard man, with a stocky physique, closely cropped sandy hair, and the powerful hands of a bar-room brawler. And he has been picked for one of the most dangerous jobs in the world'. Daily Express (13 April 1974)

The Fleet Clearance Diving Team arrived in Port Said on Thursday 11 April, having flown into Cairo airport in two RAF Hercules aircraft together with lorry and two landrovers. Accommodated in the Casino El Ghazl Hotel, which had been partly refurbished to look after the team and various American personnel, the first three weeks were spent searching the harbour basins in Port Said.

The eventual employment of the Fleet Team in the Canal was to search between 3 metres and 8 metres depth as it was discovered that the minehunters' sonar could not 'see' this area. Using between three and six men on a swimline, the numbers depending on visibility, we started down the West Bank, leaving the East Bank to the Egyptians. However, we ended up swimming from Port Said to Suez down the West Bank before returning northwards up the East Bank. In addition we searched around the harbour basins in Port Taufiq, the Oil Basin at Suez and the Egyptian Naval Base at Adabiya.

We faced the problems of barbed wire in the Canal, strong tides south of the Bitter Lakes, non-opening of pontoon bridges, the apparent lack of communication Yet another item found

between the Suez Canal Authority and the Egyptian Army, and the ever-present heat, flies and mosquitoes. Besides this, lack of information as to what we would find in the Canal meant that almost every day we were faced with some new and unfamiliar piece of ordnance. Using a cycle of eight days on task followed by two days off, we lived aboard the Suez Canal Authority launch Nada and worked from this and a smaller pilot boat, Launch 1042. The Nada was run by Captain Mohammed and his three-man Egyptian crew. We suffered from flies by day, mosquitoes by night, and heat all the time. Nada's generators were of the type 'please don't run us too long too often'; when we did, they stopped. Consequently, the refrigerator contained warm beer (dreadful stuff!) for much of the time. For



▲ Some of the FCDT return to the NADA

cooking we used calor gas; the initial problem was that the empty gas cylinder usually had to be returned before a refill could be obtained so if we ran out whilst on task maalesh!* All members of the team took to cooking; it is said that no diver on course will pass for Clearance Diver (Second Class) unless he can keep the Clearance Diver (First Class) Instructor well fed—and all members indeed showed their ingenuity with limited and primitive facilities.

Some members of the team were relieved in July by others from UK, and our part of Operation RHEOSTAT finally came to a close on 31 August. Having been entertained by the Suez Canal Authority in a night-club in Cairo, we flew home on 7 September.

The task was an interesting and rewarding one but the

* See 'Suez Sayings' Page 18

conditions under which we dived and worked undoubtedly tested our sense of humour. *Abdiel* looked after us in every way possible and it was always nice to return to a good shower and a good meal.

What did we achieve? As well as finding an aircraft, a personnel-carrier and several lorries, we located and destroyed a total of 7,043 explosive items, ranging from .22 bullets to 1,000-lb bombs; we swam 303 kilometres, we saw the Pyramids, and we sincerely hope that war does not break out again so that we shall have to start all over again.



"9 SEE OUR SLOZNOFF MK1 GROUNDMINE WENT DOWN WELL WITH THE BRITISH SIR" "9 THINK THEY CALL IT AN OILDRUM?." Rear Admiral D. Loram MVO enjoys a joke on board *WILTON* ▼



Flag Officer Malta Visitors to Task Group 65.2 Rear Admiral J D Roberts talks to the Captain of *MAXTON* **V**



Chief of Staff to Commander-in-Chief Fleet

Foreign Military

Attachés

Sir Philip Adams KCMG enjoys a drink with the FCDT on board the NADA



Captain Mine Countermeasures



Captain J Tomlinson meets *ABDIEL*'s A Master-at-Arms

British Ambassador to Egypt

—and many, many others!

Gathered at Ismailia

The International Press

-they seldom left us alone !

Port Said

On the Task Group's arrival



"I WONDER IF YOU COULD DO THAT AGAIN, TAKE IT FROM !!



Ismailia

8 S B

After ABDIEL's transit south on 29 May



-and even on task:

Another television interview for Lt Cdr Bob White

United States and French Clearance Operations

Operation NIMBUS STAR, the American airborne mine countermeasures (AMCM) sweep of the Suez Canal and off-lying waters commenced on 21 April 1974 when the USS *Iwo Jima* with an AMCM squadron of giant CH-53 Sea Stallion helicopters embarked, arrived off Port Said to anchor six miles offshore. Over the next thirty-nine days, this squadron, operating throughout the daylight hours from hastily prepared sites at Port Said, Ismailia, Deversoir and Adabiya, was to conduct a sweep of the entire length of the Canal, including the Bitter Lakes and sizeable areas of Suez Bay.

The AMCM helicopters swept for magnetic and acoustic mines by towing a large magnetic hydrofoil minesweeping device, normally called a 'sled', along the centre of the Canal.

At the same time Ismailia airfield, once RAF Ismailia, was being made serviceable again. This enabled the base of the AMCM operations to be moved there from the USS *Iwo Jima*, and USAF C-130 resupply flights were soon to be seen arriving regularly with replacement supplies and equipment. A comprehensive airborne search-and-rescue and logistic service was provided throughout NIMBUS STAR by US Marine CH-46 Chinock helicopters embarked first in the USS *Iwo Jima* and latterly in the USS *Inchon*.

Operation NIMBUS STAR, under the overall command of



A Sea Stallion helicopter tows her 'sled'

Rear Admiral Brian McCauley, USN, Commander Task Force 65*, achieved an AMCM sweep of 110 square miles of water in 514 airborne hours covering 7,500 linear miles in all. It was executed in a glare of publicity and, although no magnetic or acoustic mines were found anywhere in the Canal, the efficiency and smoothness of the Operation was impressive; it boosted United States prestige in Egypt considerably.

American personnel also took part in the far more lengthy Operation NIMBUS MOON, which was the American code name for the joint effort by Britain, Egypt, the United States and later France to clear the Canal and its banks of unexploded ordnance. In NIMBUS MOON (water) the Americans acted as advisers and teachers to the Egyptian Diving Forces; on completion of training, the

* Relieved on 3 June 1974 by Admiral K. J. Carroll

Egyptian teams carried out recovery and disposal of ordnance found by Royal Naval minehunters and the Americans' side-scan sonar boat.

The Americans used side-scan sonar, embarked in Egyptian launches to search some areas of the Canal, contacts being marked and recovered later by Egyptian diving groups. An American magnetometer system, which detects metal objects by their magnetic signatures, was also tried but proved to be effective only in the Bitter Lakes where metallic density was low. In the Canal proper there was so much metal present that the magnetometer was literally swamped and contacts could not be seen.

The French joined the clearance operations in the middle of June with the arrival of their minesweepers *Gardénia* and *Acanthe*, and agreed to undertake clearance of both Canal banks from zero to three metres depth. The minesweepers acted only as diving tenders, with the *Acanthe* remaining alongside while *Gardénia* went on task with about fourteen divers on board. The highly competent French divers used similar techniques to the Fleet Clearance Diving Team and found a vast quantity of ordnance, much of it having been thrown into the Canal during land clearance operations. The minesweepers were relieved at Suez about every six weeks for, in the intense heat, living conditions on board these ships were rather unpleasant.

For NIMBUS MOON (land), the removal of ordnance to a distance of 500 metres from the Canal banks, the US Army provided the Egyptian Army with the necessary training and expertise to enable the Egyptian Engineers to conduct the actual land clearance themselves. A total of 686,000 land mines were cleared as well as some 18,000 other items,

A further massive section of the wreck *MECCA* is lifted (United States Navy Photograph) varying from mortar shells to 1,000-lb bombs. This hazardous operation was costly in life for the Egyptians who had at least ninety-six people killed in the clearance. In fact more Engineers were killed in clearance operations than were killed in the October War of 1973.

The last, the one totally American, phase of the clearance operation was NIMROD SPAR, the removal of wrecks from the Canal. This major task was contracted to Murphy Pacific, an American salvage firm, under the command of the US Navy's Supervisor of Salvage.

In 1967 nine Egyptian ships and a concrete caisson had been sunk in the Canal to block the waterway; of these the largest wreck was the *Mecca*, a 7,000-ton merchant ship sunk seven kilometres south of Port Said. Close to the north of the *Mecca* was a sunken 1,500-ton cargo vessel,



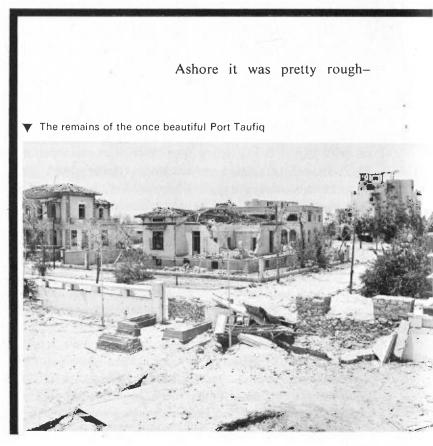
the Ismailia. The remaining wrecks comprised the Madg, a small 2,400-ton tanker sunk just north of Suez, three tugs each of 1,200 tons displacement and three dredgers, weighing between 1,500 and 2,000 tons, sunk in various positions from just north of Lake Timsah to Suez in the south.

To complete the Operation, two heavy-lift cranes capable of lifting 500 tons each were brought from Europe, and the US Navy's two heavy-lift craft, together capable of lifting 4,000 tons, were towed to Suez from the Philippines. The smaller wrecks were lifted by the heavy-lift craft and taken intact to dumping areas in the Bitter Lakes and Suez Bay, whilst the larger wrecks were cut into pieces weighing sometimes 1,000 tons each and lifted on to the banks of the Canal by the 500-ton cranes. The concrete caisson of 3,800 tons was sunk between Lake Timsah and Deversoir and proved to be the most difficult obstruction of all to clear.

These physical obstructions effectively made transit the length of the Canal impossible for all but the smallest ships; even the Royal Naval minehunters and French minesweepers found navigating past the wrecks distinctly tricky. A successful end to Operation NIMROD SPAR was therefore as essential to the Suez Canal Authority's plans for reopening the Canal as was the clearance of ordnance and, until the wrecks were removed, the ships which had been in the Bitter Lakes since 1967 remained trapped.

Operation NIMROD SPAR, the cost of which was estimated at \$46,000 a day, was completed in December 1974.

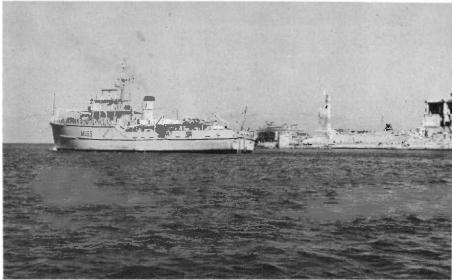
Throughout the various clearance phases, the United States maintained a continuous medical evacuation capability, keeping two CH-46 Chinock helicopters at Ismailia airfield. Fortunately no accident was serious enough to require urgent evacuation but the knowledge that the capability existed was a gratifying assurance to everyone. These aircraft also served as logistics and communications helicopters.



First Complete Transit of Canal for Seven Years

-so Abdiel remained at Ismailia!





▲ MAXTON exits the Canal on 14 July to enter Suez Bay after the first complete transit since 1967

Away from it all

A show staged for the Task Group by the SCA



A letter received by a sailor from his wife:

My dearest love,

Between the security of childhood and the insecurity of second childhood, I find the group humanity, called 'SAILOR'.

You come in assorted sizes, in ships, in dirty No. 8 suits, in messes, in love, in pubs, and always in debt! Ha! Girls love you, officers tolerate you, and the Government support you.

A sailor is laziness with a pack of cards, bravery with a tattered James Bond, and a protector of the nation with a dozen pints in you. You have the energy of a tortoise, the slyness of a fox, the brains of an idiot, the stories of an old sea captain, the security of a born liar, and the inspiration of a Casanova.

Some of your interests are: girls, women, females, dames, birds, bits of skirt, and the opposite sex.

You dislike: answering letters, wearing uniform, your Divisional Officers, and hearing the wife is pregnant again.

You like to spend your money on: girls, drink, the pools, horses; the rest you squander foolishly.

Altogether, a sailor is a magical creature. I could lock you out of my home, darling, but never out of my heart. I love you.

Agnes XXX



'For Allah created the English mad-the maddest of all mankind! *Kipling*

▲ Volleyball at Ismailia

The whole Task Group off task in Lake Timsah 🔻





The Members of Task Group 65.2

The heroes of our plot:

HMS ABDIEL

COMMANDING OFFICER Commander J D W Husband OBE (Commander Task Group 65.2)

OFFICERS

SENIOR RATINGS

Lieutenant Commander J E Thompson Lieutenant R W Curtis MBE Lieutenant A Howard RM Surgeon Lieutenant A Hammer Lieutenant Commander G L Gough Lieutenant T J Dempster Sub Lieutenant J J Whiting Sub Lieutenant V Stradling Surgeon Lt Cdr C W Evans Lieutenant R Still MBE Sub Lieutenant J C Rapp Lieutenant D E Whitehouse Lieutenant P Balfour Sub Lieutenant D J Griggs

FCMEA(P) P T Alford MBE CCEA B Cattermoul MEA W Patton MECH1 J F Drewell MEA1 J F Raybone POMEM A G Allan REA2 T J Delves POMEM D B Homer POCK P A Spencer POOEL T Dearden

LS J W Banks LS | Priest AB J R Bonham AB L Gillespie AB P Hughes JS R Shaw AB P J Tutty AB R Webster LS | McIntosh CK P Nearv RO A L Bird **BO S Ginns** AB T Johnstone MEM G G Williams RO A M Duff RO R Thorp LOEM M T Ballingall LWTR A J Murrey LREM M Thomson LOEM A J Gillie OEM G G Harris **OEM E Richardson** CEM G M Thompson STD A Sunderland CEM S Herring LMEM R S Sallis

MAA J S Paterson CCEL W McIntosh OEMN1 M W Bunton OEMN1 R Harrop CPOSA A J Robertson POSTD R Coburn POMEM P D Dippie POMEM K B Maclean POMA I R Whitehead POMA T Cartwright MAA J Skinner CCEA R Morrison-Chapman OEA1 S G Byrne BEM MECH1 J McDevitt OEMN1 P V White POCEL R A Croysdale POOEL K G Elliott PO P N Rope POSTD P Amos Mr J Johnson (NAAFI Manager)

JUNIOR RATINGS

LS D J Bridgeland LS T Ward AB J Ellington AB S R Kerr AB M O'Brien AB D Simon AB M Vose AB T Newlove LCK T Gettins CK A Corner AB R Chaters RO J W Green LS T D Llewellyn **BO P J Sandall** RO P Horne RO P Conway LSTD A B Gatt LSA J D Harrison CK P W Barker REM W B Gilmore JS T L Holloway STD T A Reid OEM G W Wilson LCK | McKenzie MEM J Kearney LMEM P L Twells

LS H A Drury AB P A Andrews CK G Donaldson AB M F Kirk AB T W Platt AB A Snowball AB A Bandy AB L Skelsev LRO R Stevens CK T Roberts AB W H Gash RO G Hindmarch **RO P W McNaughton** RO S P Williams RO G Appleby RO J Madigan LWTR S B Pudney LSTD R A Loftus OEM E J Dale REM R Grubb REM M Mackav CK F Reid STD W Bensley REM J Green LMEM J Simmons LMEM D Butler

MECH1 R Kay CPO PTI P I Evans REMN1 A D Currie MEA1 J McGuckin MEA1 C Walsh MEA2 R Deaton CY D M Harrison RS R J Rushworth POSA D Nairne

LS J W Hart AB T Beckwith AB R W Foster AB D R Horsburgh ORD G Rich AB R N Stanley AB J Mair AB A Crake STD G W Burrell LCK E Cooper RO G B Gerstenberger RO G L Jones RO W A Moore AB I W Upham RO J Todd RO G Farouhar LWTR G N Strother LREM A Elliott STD C Fraser **OEM J Gunning** SA G S Nicoll CK R P Smith LSTD J Papierowski LOEM H Adams SA R Keyes LMEM R A Kelly

LMEM D W Richards CK G Cromar MEM A R Lewandowski MEM A W Stringer MEM F Stubberfield

MEM G K Brackley MEM A Harvey MEM K Rawlings MEM A Gray Mr T Morris (Canteen Assistant)

Lieutenant Commander F Malbon

MEM W J Boyd MEM C I Jackson MEM T W Rigby SA T Barnes AB W Paterson

MEM J A Campbell MEM D R Lee CK G L Robinson MEM J Inalis

LIAISON STAFF ASHORE

Commander A Harris

PO S Sissons

LS P Bailey

MECH S Grattan

LMEM T Thomson

OEM M L Scheel

AB A P O'Donovan

AB J F Brown

AB S McNulty

AB 8 Scrivener

AB P Gettins

MEM R A Matthews

Lieutenant J J Howard

CPOWTR R M Macauley

HMS BOSSINGTON

COMMANDING OFFICER Lieutenant J R L Turner MBE

OFFICERS

Lieutenant C G Massie-Taylor Sub Lieutenant C E Stanley

Lieutenant A J G Miller Midshipman D Hodson

CEA 8 Morgan

POMEM T Murphy

LMEM J C Crosier

MEM I S Wakefield

REM C D H Carpenter

LCK R Kiddel

AB R J Cook

CK A Poolton

AB J A Miller

AB K G Graham

AB R C Rosher

Lieutenant N P Gent

Sub Lieutenant T R Williams

SENIOR RATINGS

CEA C H Ford POMEM A Lauder

JUNIOR RATINGS

LOEM F M Worral LS J E Flintoft MEM K D Norris AB P Byers RO G P Shilton AB J P E Howarth AB J W Maunton AB K M Geddes BEM ORD J W Bradshaw

LRO S S Houlding LS A Walker MEM D E Partridge AB V S Clarke BEM AB B T Lycett STD A K Hall AB R J Godsell MEM G P Collins

MEA D W Crosbie

HMS MAXTON

COMMANDING OFFICER Lieutenant T W Paul MBE

OFFICERS

Lieutenant D Leach Sub Lieutenant J Hepburn Lieutenant A McCurry Midshipman K C R Podger Sub Lieutenant R Govan

Sub Lieutenant R B Malcolm

SENIOR RATINGS

CPO J Dadd BEM POMEM D H R McCloy MEA R Clough

POMEM A Smith

JUNIOR RATINGS

STD D J K Penny

LCK T Murphy

CK V S M Gough

CEM B McMullan

CEA D J Morcum

LOEM 8 Jones MEM D R Williams LRO G Fallows AB R A P Baker AB K Wilkie AB D Wilkinson AB M P Horne AB M J Brewer

OEM D Strang MEM P Gov LRO A Robertson AB G Willmer AB R L Chiswell AB P T Harmer AB N L Stanton

REM D R P Tindall MEM D G Weir LS R W Cunningham ORD | D A Henderson AB A D Andrews AB D J Collier AB G Pinder

LMEM J H Brown MEM B G Shepcar AB M T Hughes ORD M J Beckitt AB N M Clarke AB P N Taylor AB B Baillie

HMS WILTON

COMMANDING OFFICER Lieutenant Commander T Trounson MBE relieved by Lieutenant J J Howard

OFFICERS

SENIOR RATINGS

Lieutenant J Hendrick

Lieutenant J J Cook Midshipman M Marr Sub Lieutenant G Ramsay

Sub Lieutenant S J Hambrook

POMEM P Smith

ORD B A Brown

JS D Livingstone

LCK J M Rogers

AB D J Lowery

LRO A G Clark

MEM V Barnes

OEM S Herdman

AB G McManamon

AB S P Ruck

AB R Davis

CK R Newin

Midshipman A Haste

PO T A Luter POMEM M R Wheelhouse

LS A Brown AB R E Street AB D P Baker LMEM T Maister RO G Craggy **OEM R Stokes** LRO R J Birch AB S Beglev LS N V A Jones LS G Goodhead LS D Hilton

PO J Timberlake POOEL J F Peet CMECH B A Anderson POREL J M Russell BEM

JUNIOR RATINGS

LS P J Bird AB J McLov AB R Rhodes LMEM J R Wright MEM R German **REM K J Watts** AB S J Gunnell STD A Johnson LRO D M Thomas AB D Kitson AB S Bates

REM J Coultas AB S C Harvey AB K Sowerby LREM J D Hill MEM P Cook STD D Harris JS J Norman AB D G Morris BEM LS D Wilson LRO B Burke LS P Lyon

FLEET CLEARANCE DIVING TEAM

OFFICERS IN CHARGE Lieutenant Commander R W White MBE FCPO D Lott BEM

SENIOR RATINGS

JUNIOR RATINGS

CPO B Bray BEM*

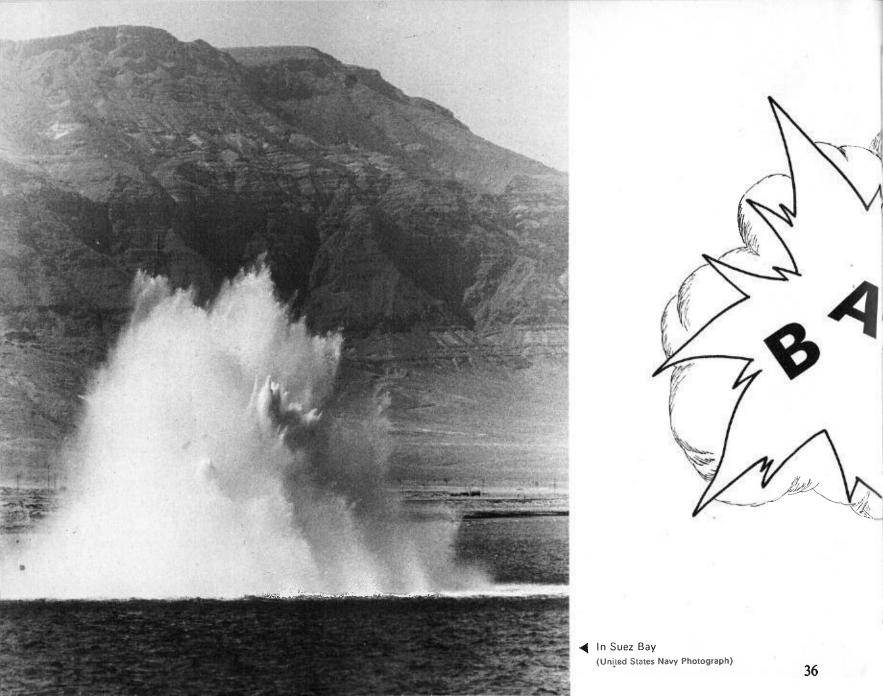
PO K Malham

PO G R Berry

LS J Pennington BEM LS R Richardson AB M Spiers MEM M Creasev

LS C T Goff LS B McVittie AB W McGovern ORD C Crowe

LS I B Smith AB T Jarv AB N Firman JS J Norman AB N Matthews LS J Howell AB C Brown AB A Carr







ABDIEL's ship's company watches an explosion in Port Said harbour



A 1000-Ib bomb is exploded astern of *MAXTON*



The Final Score

After twenty-nine weeks operating in the Canal the haul of explosives found by Task Group 65.2 makes impressive reading:

Gelignite	458 sticks
TNT (including ordnance found in	
barges, lighters and lorries)	209 tons
Missiles	78
Anti Personnel Mines	517
Anti Tank Mines	137
Anti Tank Rockets	145
Aircraft Drop Tanks	3
Rockets Various	14
Shells Various	328

Cluster Bombs	9
Bomblets	508
Bombs: 250 lb	8
500 lb	11
750 lb	3
1000 lb	5
Mortars Various	48
Grenades	192
Small Arms Ammunition	6473 rounds
Miscellaneous Items	334
Scare Charges	201

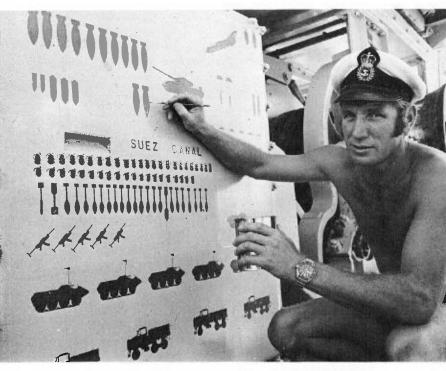
By far the largest quantity of assorted weapons and ammunition found is included in the 209 tons of TNT found in lorries and lighters lying on the bottom of the Canal. One such lighter alone contained about 175 tons of ordnance. Their loads probably included thousands of items of all the types of ordnance listed above and contained equipment made in the USSR, USA, Egypt, Czechoslovakia, Israel, Denmark, Britain and Switzerland.

in addition

The list of non-explosive items found is somewhat bizarre. It included:

Aircraft Wreckage	7
Tanks	3
Lorries and Personnel-Carriers	15
Pontoon Bridge Sections	33
Bodies	6
Navigational Buoys	29
Anchors	20
Girders	186
Miscellaneous Items	165
1340-ton Corvette*	1

-as well as oil drums galore, sections of railway track, steel wheels, firehoses, a firemain connection, welding rods, cargo pallets, a motorbike, a gas mask, several Egyptian kitbags, a diving knife, buckets, paint cans, a fan, a searchlight, a large bell, sardine tins, beer cans, a tin of baked beans, a rope-ladder, two Turkish coffee pots, and a pedlar's grindstone.



CPO J Dadd puts the finishing touch to *MAXTON*'s **A** scoreboard

* The Misr, previously the Malrouk, ex-RN Flower-class Corvette, which after collision with a Norwegian tanker sank eight miles south of Suez on 16/17 May 1953.

Future Plans for the Suez Canal

These extracts are from an article which first appeared on 5 September 1974 in *New Scientist*, London, the Weekly Review of Science and Technology.

Before the Six-Day War brought traffic to a standstill, prospects for the Canal looked good. In January 1967, a record 29 million tonnes of ships and cargo passed through the Canal, mainly from the south (Suez) to the Mediterranean (Port Said). Over the previous ten years, the amount of oil shipped through the Canal had increased by 155 per cent and the tonnage of dry cargo by 70 per cent.

But already the Egyptians were beginning to realise the need to dredge and widen the Canal. In the late 1950s the Government drew up the Nasser Project to anticipate and avoid the potential economic damage that could result from the growth in the number of tankers so large as to be unable to use the Canal route. The first stage in the project (deepening the Canal so that ships of 38 feet draught could pass through) was completed in February 1964. The Six-Day War halted work on the second stage (dredging to allow entry of ships drawing 40 feet of water) and the third stage never got off the ground.

Proposals even more ambitious than those are now abroad. Today's immediate objective is to restore the Canal for laden ships of 70,000 tonnes deadweight and 150,000 tonnes in ballast. By the early 1980s, the Egyptians hope that even larger tankers (250,000 tonnes laden deadweight) will be passing through. All this is, however, only a beginning. Port Said and Suez harbours are to be



O/SEAMAN HIBBINS HAS ALREADY DECIDED THE FUTURE OF THE CANAL SIR? YOU'RE STANGING ON K

enlarged and to become free trade areas. Three new cities (one named after President Sadat) are to be built near Cairo. Ismailia is to be developed as a tourist resort (at the moment it boasts not a single hotel). An eight-lane road running the length of the Canal and passing under it through five tunnels would be constructed. A \$400 million pipeline would be built by an Italian corporation between Suez and Alexandria, where a refinery is planned.

Before any of this could begin, however, someone had to clean up the debris of two wars—admittedly brief, but between armies equipped with some of the most sophisticated weapons yet devised.

Back with a Bang

An extract from an article which first appeared in Navy News October 1974 Suez is the kind of four-letter word which can still evoke emotion among the British. Flooding back come memories of commerce, shipping, military power and war in a distant land, culminating in the recollection of the traumatic episode which for many came to symbolise the end of an era.

But now the British are back at Suez, with more prestigious a return than could perhaps have been visualised. In the forefront has been the Royal Navy, cast once again in the role of roving ambassadors of goodwill and good works which it has so often played down the years.

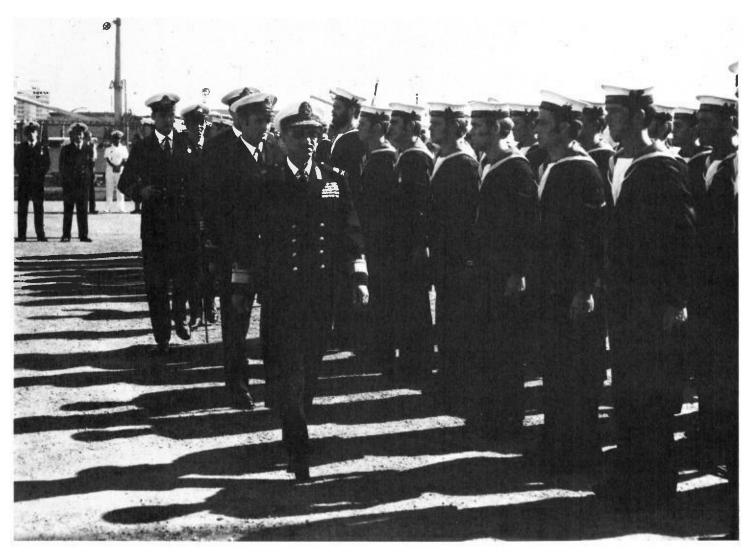
Worldwide and admiring attention has focused on Navy skills, as the mammoth operation of clearing the famous Canal has progressed during summer 1974. As the unique task draws to a close the sailors who sweated it out in temperatures of $100+^{\circ}$ F can look back on a time of true job satisfaction.

The sailor's lot comes in many guises, often in the 'bread and butter' sea routines of trials, work-up, exercises and the like. But Operation RHEOSTAT, the removal of the massive debris of war from the 100-mile Canal, presented the reality of a challenge in deadly earnest and with only the sailor's training and techniques standing between him and disaster. At the end of Operation RHEOSTAT the Task Group received the following signal from Her Majesty's Ambassador to Egypt, His Excellency Sir Philip Adams, KCMG:

ON YOUR DEPARTURE FROM EGYPT I WANT TO THANK YOU AGAIN FOR THE JOB YOU HAVE DONE NOT ONLY IN MAKING THE SUEZ CANAL SAFE FOR SHIPPING BUT AS A CONTRIBUTION TO ANGLO-EGYPTIAN AND INTER-ALLIED RELATIONS IN A MUCH WIDER AREA. ALL WHO FOLLOWED THE COURSE OF THE OPERATION ADMIRED THE CALM AND CHEERFUL EFFICIENCY WITH WHICH IT WAS DONE. I KNOW SOMETHING OF THE HAZARDS WHICH WERE INVOLVED AND OF THE HARDSHIPS ENDURED. THEY WERE OVERCOME WITH SPECTACULAR RESOLUTION AND SUCCESS.



This crest was designed specially to commemorate Operation RHEOSTAT



Rear Admiral Fouad inspects divisions at Ismailia on 1 November prior to the Task Group's departure

Final Word

Well! What a year! I doubt that any of us, as we basked in the snow of South Queensferry, for one moment thought that we should be spending seven months of the year in Egypt. Gone for ever, I hope, is the accusation that the First and Second Mine Countermeasures Squadron ships are just day-runners.

There was, I think, something rather satisfying in being part of history, and there can be little doubt that the Royal Naval Task Group contributed an important chapter in the history of the Suez Canal and the Middle East. What is also very satisfying is the knowledge that we tested our ships and men in a task of some complexity and danger and found both well able to compete.

What we at the super-heated coalface sometimes forgot, however, was that we were not entirely on our own. We were supported, not only in Cairo, but in Cyprus, Malta and in the UK, by a large number of people who kept us fed, supplied and occasionally entertained. This might be a good moment to thank them.

What more can be said? All the 'Well dones' have long since been given and I have noticed a number of people buying new, larger-sized hats. But your achievement is something of which to be proud and I hope that you will look back on these long hot months with satisfaction. I also hope that this book will, in the years to come, bring back good memories.

hidrotusband

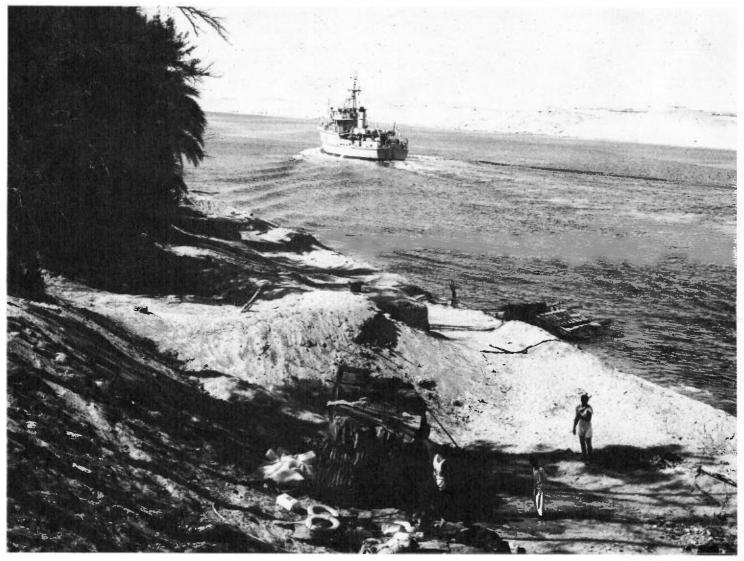
In recognition of their efforts during the Suez Canal Clearance the following were awarded decorations in the New Year's Honours List 1975:

Officer of the Order of the British Empire Commander J D W Husband

Member of the Order of the British Empir-FCMEA (P) P T Alford Lt R W Curtis Lt T W Paul Lt R Still Lt Cdr T Trounson Lt J R L Turner Lt Cdr R W White

British Empire Medal:

CPO B E Bray OEA1 S G Byrne AB V S Clarke CPO J Dadd AB K M Geddes AB D G Morris LS J Pennington POREL J M Russell Our job done we left for home



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Production arranged by Stanley Thornes (Publishers) Ltd, 17 Quick Street, London N1. Printed by R A Blackwell & Partners Bath

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