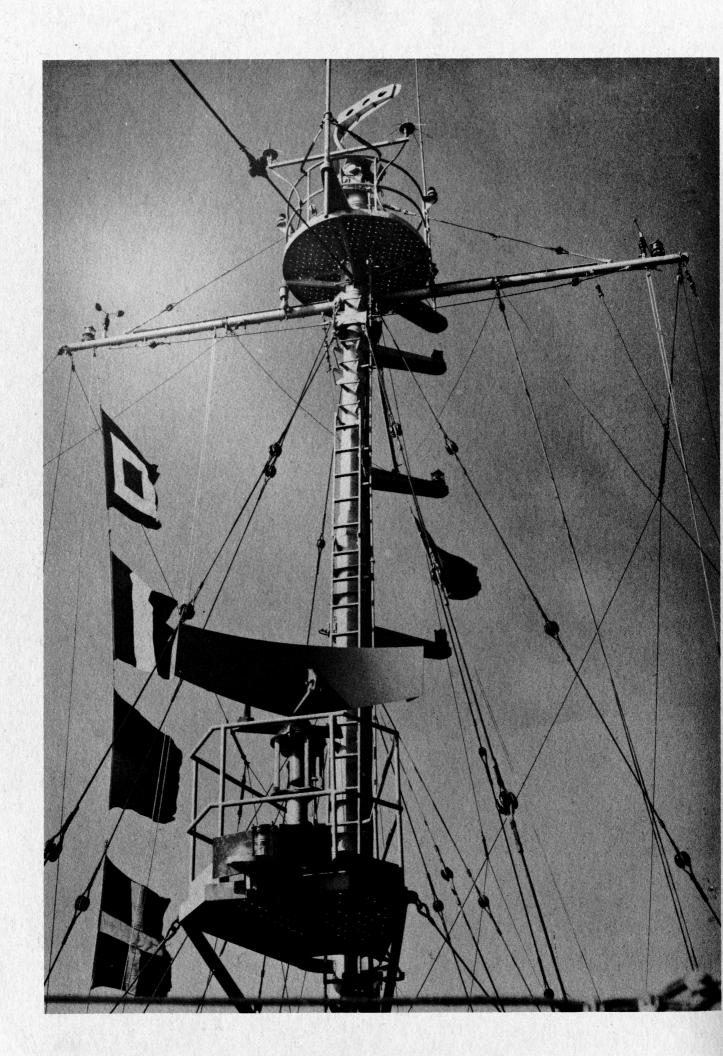


**I554** 1964 c.3

EXPEDITION



RJ GC 721 I554 1964 c.3

Ocean Survey Ship 31/USC&GSS Pioneer

# INTERNATIONAL INDIAN OCEAN EXPEDITION 1964

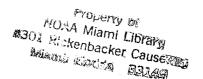
**United States of America** 

DEPARTMENT OF COMMERCE

Luther H. Hodges, Secretary

Coast and Geodetic Survey

Rear Admiral H. Arnold Karo, Director



### THE SHIP

The United States Coast and Geodetic Survey Ship PIONEER began her career as a U. S. Navy torpedo boat tender. Built in 1943 and originally christened the U. S. S. MOBJACK, AVP-27, she honorably served in the South Pacific during World War II. In 1946 she was transferred to service with the U. S. C. & G. S., which converted her to an oceanographic ship and changed her name to PIONEER, Ocean Survey Ship Number Thirty-One (OSS-31). She became one of several "floating laboratories" used by the Coast Survey to do broad research in the field of oceanography — the study of the sea.

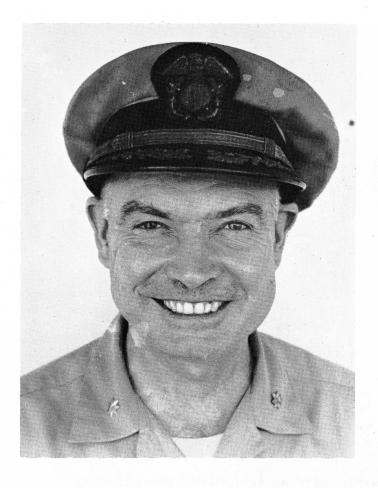
The PIONEER operated most of the time in the Pacific Ocean and made many cruises to Hawaii, Alaska, and along the west coast of the United States. The PIONEER is the longest (312 feet) ship in the Survey as well as one of the best equipped, and therefore, it was no surprise that she was chosen to participate in the 1964 International Indian Ocean Expedition (IIOE).

One of the PIONEER's most important functions, as her name implies, is the testing of new equipment and methods for future use on other oceanographic vessels. Her magnetic surveys and gravity surveys were the first of their kind to be made over great ocean areas. In a similar manner, the recently-installed "GEP" (Geological Echo Profiler) enabled the PIONEER to make the first survey of the bottom of certain sections of the Indian Ocean and the layers beneath. The operating characteristics and main equipment of the PIONEER are listed below.

Name of ship	U.S.C.&G.S.S. PIONEER, OSS-31
Year built	1943
Length	311.6 feet
Beam	41.0 feet
Displacement	2500 tons
Draft	13.8 feet
Speed	Cruising, 16 knots — Maximum, 18 knots
Range	10,000 miles
Endurance	30 days
Normal Complement	118 officers, crew, and technicians/scientists
Propulsion	Twin screws, each driven by two Fairbank-Morse opposed-piston Diesel engines
Engine Rating	Four engines, 1600 HP each
Total Horsepower	6400 HP
Fuel Capacity	150,000 gallons of diesel oil
Electric Power	Four generators capable of producing 600 kilowatts of electricity
Steam Boilers	Two boilers (53.6 HP each) capable of producing 1,500,000 BTU perhour
Water Production	Evaporators capable of distilling 10,000 gallons of fresh water daily.
Fresh Water Capacity	42,000 gallons
Food Storage	Storage space sufficient for six-month's supply

# EQUIPMENT ABOARD THE PIONEER

Navigation Equipment	Two surface-search radars, gyrocompass, Loran A, Loran C, pitometer log for distance measurements, revolution counters to supplement log, magnetic compass, shoran, sextants
Echo-Sounders	Two deep-water EDO type 185 (Navy UQN-1, one Raytheon DE-723, two Timefax PDR (precision depth recorders) which operate in conjunction with EDO. Rayflex GEP (Geological Echo Profiler)
Communications Equipment	Two RCA 1000-Watt CW transmitters (LF & HF), one Collins KWT-6 CW/AM/SSB 500-Watt transmitter, one Northern 100-Watt, one Navy TCS-6, One Johnson Viking transmitters for ship-to-shore and standby use. Collins, Mackay, and Hammarlund receivers tunable from 85 KC to 30 MC. Radio-teletype and several small portable units for shore parties and launches
Laboratories	One dry oceanographic laboratory for salinity, dissolved oxygen and other salt-water analyses, one wet laboratory for Nansen casts
Hydrographic Winches	One Western Gear Corporation deep-sea winch with 45,000 feet of $\frac{3}{8}$ -inch to $\frac{3}{4}$ -inch tapered cable used for coring. One Wheeler Oceanographic Winch for Nansen casts. Two 3-HP Bathythermograph winches
Other Equipment	Varian Magnetometer, Dymec Automatic Data Logger, Lacoste & Romberg gravity meter, Roberts radio current meters, Meteorological Digital Data Logging System, Radiosonde receiving-recording system
Types of Observations	Continuous bottom and beneath-bottom profiler, bottom photography, bottom samples (snapper, coring, and dredging), bathythermograph current observations, nansen casts, plankton tows, sea and swell observation, biological and hydrographic phenomena, magnetic, gravity, solar radiation, and weather observations



Commander Howard S. Cole Executive Officer, USC&GSS Pioneer

Commander Howard S. Cole, Executive Officer of the PIONEER, graduated from George Washington University in 1932 with a B.S. degree in Civil Engineering. While attending college, and for three years after graduation, he worked part time for the Coast and Geodetic Survey on various field assignments. In 1937 he returned to the Coast and Geodetic Survey as a magnetic observer doing repeat work in various parts of the United States.

In 1940 he became a deck officer and was assigned to a wire drag party on the U.S.C.&G.S. ship Oceanog-Rapher. Later that year, he joined the ship Hydrographer in Cuba to do special surveys in the British West Indies.

In 1941, while enroute to Alaska on the ship Explorer, Commander Cole received his commission as an Ensign in the Coast and Geodetic Survey. During World War II he served on various Coast Survey Ships in Alaskan waters.

In 1945 he studied advanced electronics at the U. S. Naval Officers Radar Schools at Bowdoin College, Maine, and at the Massachusetts Institute of Technology. After graduating from these schools, he served aboard the ship Pathfinder as Electronics Officer and accompanied the Navy Barex 50 Expedition to the Arctic Ocean serving as Shoran expert. In 1951, as a technical instructor, he taught U. S. Naval personnel the maintenance and operation of Shoran equipment.

In 1952 Commander Cole was chief of a triangulation party operating in Texas, Oregon, and Alaska.

He served aboard the PIONEER first in 1955 as electronics officer and then in 1963 as Executive Officer, the position he now holds.

During the intervening years he gained valuable experience as Chief of the East Coast Field Party and as Electronics Officer with the New Ship's Staff.

Commander Cole plays the organ and provides the religious music at the shipboard Sunday morning church services. His hobby is gardening and he is the proud owner of a 300-acre ranch in the state of Washington.

# **COMMISSIONED OFFICERS**



Cdr. Ralph E. Uhrich Chief Engineer, Deputy Safety



Lcdr. William D. Barbee
Operations & Navigation Officer
(First part of cruise)



Lt. Ray E. Moses
Operations & Navigation Officer
(Last part of cruise)



Lt. Edward L. Spencer USPHS, Medical Officer, Morale & Recreation



Lt. Seymour R. Kotler Electronics, Gravity & Gunnery Officer



Lt.(jg) Stephen Z. Bezuk Protocol Officer Statistics



Lt.(jg) Edward R. Dohrman Asst. Navigation Officer Gyro, Classiffied Material



Lt.(jg) Gerald R. Schimke Asst. Operations Officer



Ens. Paul W. Larsen Supply, Inventory, Classified Diving

# COMMISSIONED OFFICERS FULL-TIME SCIENTISTS AND TECHNICIANS



Ens. John B. Jones Accounting Officer



Ens. Joseph M. Lushene Magnetics Officer



Ens. Danford A. Moore Movies, Educational & Public Relations Officer



Ens. Woodrow E. Bliss, Jr. Ships Service, Clothing & Small Stores Officer



Ens. David L. Hough Transportation Officer



Harris B. Stewart, Jr.
Oceanographer
Coast and Geodetic Survey



Quentin Stephen-Hassard Biologist University of Hawaii



Melvin L. Fields
Meteorologist
U. S. Weather Bureau



James B. Soileau Meteorologist U. S. Weather Bureau

# SCIENTISTS/TECHNICIANS

Dr. J. B. Alexander, Head, Malaysian Geological Survey

Vicente B. Alvarez,
Biologist, University of Hawaii

William Borglund,
Photographer, United Nations

Dr. Robert E. Burns,
Oceanographer, USC&GS

Sam A. Bush, Geophysicist, USC&GS

Wesley Butler, Engineering Division, USC&GS

Gilbert Corwin,
Geologist, USGS

Eugene A. Danielson,
Electronics Facility, Seattle Base, USC&GS

Omar E. De Wald, Geophysicist, USC&GS

Dr. Robert S. Dietz,
Marine Geologist, USC&GS

Melvin L. Fields, U. S. Weather Bureau

Byron Hale, Photographer, USC&GS

Reginald Harbison,
Geophysicist, USC&GS

A. C. Hill, Engineer, Rayflex Corp.

J. Richard Jadamec,
National Oceanographic Data Center

Everet C. Jones, Biologist

Reginald B. Jones,
Oceanographer, USC&GS

George Keller,
Navy Oceanographic Office

Col. K. L. Khosla, Survey of India

John W. Kofoed, Geological Oceanographer, USC&GS

Manuel Llorca,
Philippine Fisheries Department

John Lindberg, Engineer, Rayflex Corporation Richard J. Malloy, Geophysicist, USC&GS

Mario Manasala,
Philippine Coast & Geodetic Survey

Aubrey B. McCollum
Geophysicist, USC&GS

Anugerah Nontji, Marine Scientist, Indonesia

Kah Sin Ong, Fisheries Division, Malaysia

George Peter, Geophysicist, USC&GS

Richard B. Perry,
Geological Oceanographer, USC&GS

Sarma Remankantha,
Movie Director, United Nations

Ronald K. Reed,
Physical Oceanographer, USC&GS

Kevin S. Rodolfo,

Marine Geologist,

University of Southern California

Dr. Francis P. Shepard,
Marine Geologist,
Scripps Institute of Oceanography

James B. Soileau, U. S. Weather Bureau

Quentin "Dick" Stephen-Hassard Biologist, University of Hawaii

Dr. Harris B. Stewart, Jr.,
Deputy Assistant Director,
Office of Oceanography, USC&GS

Dr. Joshua I. Tracy, Geologist, USGS

Austin Weeks, Geophysicist, USC&GS

### CHIEF PETTY OFFICERS



R. T. Abueg Chief Steward Alameda, California



V. D. Arruiza Chief Steward Daly City, California



O. S. Bonderud Chief Yeoman San Francisco, California



D. L. Chase Chief Boatswain Mate Portland, Oregon



C. T. Cook Chief Machinist Mate 3/C Oakland, California



S. M. Espeleta Chief Steward Oakland, California



J. K. Fujio Chief Machinist Mate Pahoa, Hawaii



A. M. Greenberg Chief Quartermaster San Francisco, California



R. C. Johnson, Jr. Chief Machinist St. Petersburg, Florida



S. E. Linn Chief Electronics Mate Alameda, California



W. Y. Lavery Chief Boatswain Aldersort Manor, Washington



H. E. Mowbray Chief Yeoman Gulfport, Florida

### CHIEF PETTY OFFICERS



H. E. Parsley Chief Electronics Techniciar Daisetta, Texas



A. B. Parton
Chief Machinist Mate
Castro Valley, California



W. O. Peaslee Chief Machinist Mate Oakland, California



E. Pykosz Chief Boatswain Woonsocket, Rhode Island



A. M. Raker Chief Electronics Mate El Cerrito, California



E. Roberts, Jr.
Chief Electronics Technician
Mountlake Terrace, Washington



H. M. Schildmuller Chief Boatswain Mate Middletown, New Jersey



G. G. Sellers Chief Machinist Baxley, Georgia



J. E. Shapter Chief Machinist Mate Oakland, California



R. G. Turner Chief Machinist Alameda, California



J. Velasquez Chief Machinist San Antonio, Texas



L. C. Work Chief Electronics Technician Hayward, California



G. M. Abellera Stewardsman Oakland, California



R. O. Alesna Fireman Apprentice San Francisco, California



H. H. Amadeo, Jr. Seaman Honolulu, Hawaii



D. F. Amor Stewardsman San Francisco, California



E. R. Askey Machinist Mate San Pablo, California



E. R. Bachar Steward Recruit Mountain View, California



D. P. Bahilot Stewardsman Honolulu, Hawaii



J. M. Baleto Fireman Apprentice Alameda, California



R. W. Bradshaw Stewardsman Oakland, California



G. W. Breckbill Jr. Electronics Technician Weiser, Idaho



M. D. Brodit
Stewardsman
San Francisco, California



W. T. Burchett Fireman Oakland, California



B. A. Casuga Fireman Apprentice Oakland, California



P. B. Corpuz Steward Honolulu, Hawaii



V. N. Delapina Fireman Recruit San Francisco, California



A. M. Duggan Seaman San Leandro, California



J. T. Dumaguing Steward Honolulu, Hawaii



J. M. Espeleta Stewardsman Oakland, California



G. A. Garcia Fireman Recruit Gardena, California



B. S. Gealon Seaman Honolulu, Hawaii



S. A. Gomes Seaman Hayward, California



A. R. Gonzales Fireman Apprentice Carpinteria, California



H. A. Gorham Quartermaster Bremerton, Washington



R. J. Grinnell Quartermaster Seattle, Washington



W. J. Halama Seaman Oakland, California



D. L. Hawthorne Machinist Mate Oakland, California



R. R. Houser Seaman Apprentice Berkeley, California



J. T. Ilogon Stewardsman Oakland, California



J. A. Jefferis Fireman Apprentice St. Petersburg, Florida



R. D. Johnson Boatswain Mate Oakland, California



R. W. Johnson Fireman Apprentice San Francisco, California



G. Kanamu, Jr. Seaman Honolulu, Hawaii



R. J. Kenneth Quartermaster/Surveyor San Francisco, California



L. A. Knutson Quartermaster/Surveyor Seattle, Washington



R. J. Lance
Quartermaster/Surveyor
Baltimore, Maryland



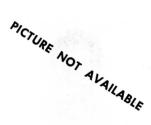
L. C. Mahinan Seaman Honolulu, Hawaii



R. B. Malabed Stewardsman San Francisco, California



F. A. Matabirde Stewardsman Honolulu, Hawaii



A. E. Mendiola Quartermaster Berkeley, California



A. B. Metcalfe Yeoman Honolulu, Hawaii



M. J. Needham Radioman Portland, Oregon



L. S. Nillo Steward San Francisco, California



D. T. O'Donnel



A. G. Olamit Steward Recruit Stockton, California



J. N. Ono Fireman Apprentire San Francisco, California



H. Padilla Seaman Apprentice Oakland, California



S. T. Peralta Steward Apprentice San Francisco, California



P. R. Pomaras Stewardsman Oakland, California



E. O. Ramos Seaman Honolulu, Hawaii



R. R. Rasmussen Fireman Apprentice Raymond, Washington



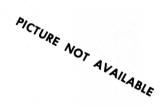
C. A. Reitberger Seaman Hutchinson, Kansas



A. R. Ribaya Steward Oakland, California



R. P. Rogers
Quartermaster/Surveyor
Washington, D. C.



D. E. Ross



J. A. Ryan Seaman San Francisco, California



T. S. Sanford Seaman Palo Alto, California



K. M. Saum Seaman Apprentice Berkeley, California



J. A. Serber Quartermaster/Surveyor Falmouth, Maine



R. D. Shaw Machinist Mate San Francisco, California



J. M. Shinn Jr. Electronics Technician San Mateo, California



R. K. Stankey Fireman Recruit San Francisco, California



D. H. Stokes Quartermaster/Surveyor Baltimore, Maryland



J. D. Sullivan Fireman Apprentice Oakland, California



C. D. Sweatt Seaman Palo Alto, California



E. P. Tabajunda Fireman Honolulu, Hawaii



B. W. Tiger Fireman Oakland, California



P. L. Wolf Radioman Los Altos, California

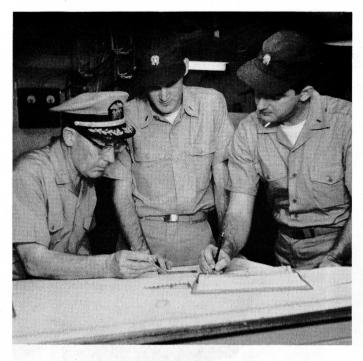


E. L. Woods Quartermaster/Surveyor Washington, D.C.



C. K. Yorkman Seaman Honolulu, Hawaii

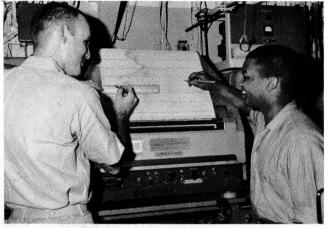
# CHART ROOM AND HYDROGRAPHY



Capt. Brown

Ens. Lushene

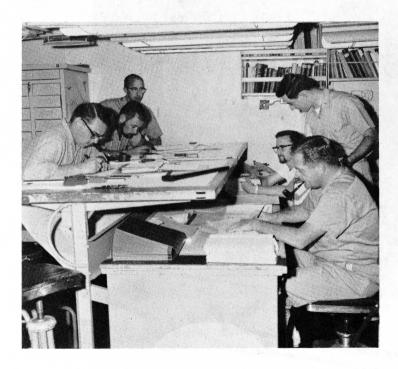
Ens. Bliss



Ens. Lushene

Stokes

# Smooth plotting and data reduction in the plotting office

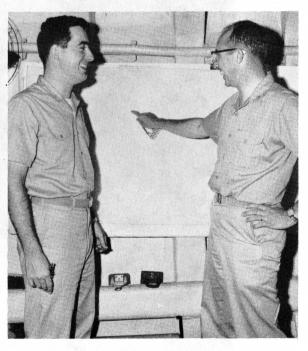


Kenneth

LCDR. Barbee Ryan

Ens. Bliss Knutson Omar DeWald

. . And if you go West of 80° E.
you fall off the edge
of the world!



LCDR Barbee has a few instructive words for Ens. Bliss

# **ADMINISTRATION**



Ens. Jones Chief Bonderud Accounting Office

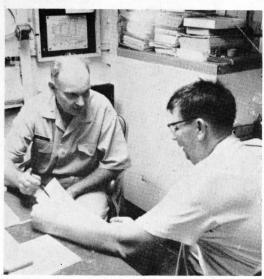


LCDR. Barbee Sarma Remankantha Harris Stewart Kelvin Rodolfo

Coordinating scientific plans with the ship's route



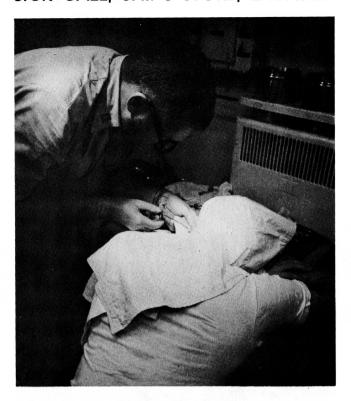
Capt. Brown Lt. Moses Cdr. Cole
Planning the day ahead in the Captain's cabin



Cdr. Cole

**Chief Mowbray** 

# SICK CALL, SHIP'S STORE, LAUNDRY



Lt. Spencer sews up the wounded



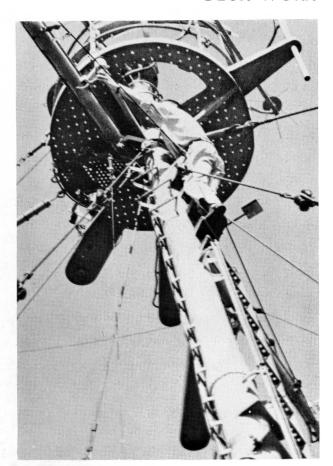
Yorkman handles the ship's laundry



Rasmussen Metcalf
The ship's store, source of many of life's necessities, from razor blades to cigarettes

# DECK WORK

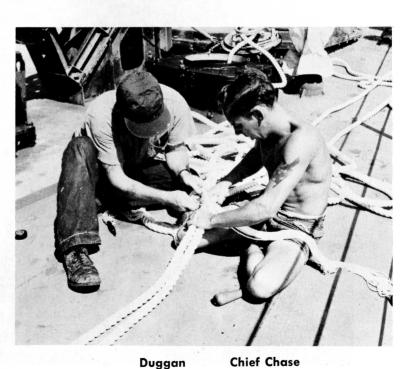




Person unknown



Saum



Duggan Chief Ch

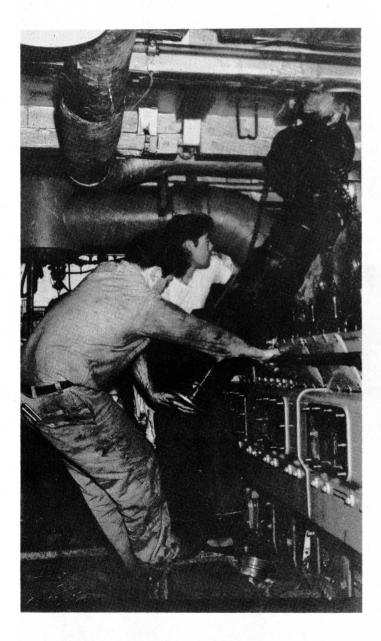
The deck force was in charge of maintaining the ship.

Deck men were often to be seen painting, splicing lines . . .



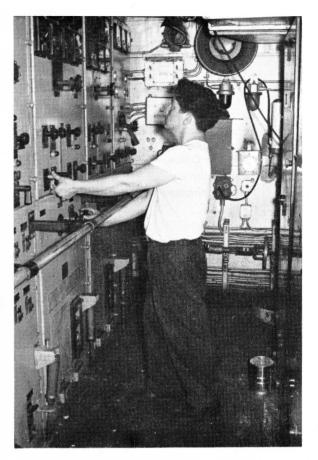
Shaw

The "Black Gang" in the engine room had the responsibility to keep the engines and other machinery functioning smoothly

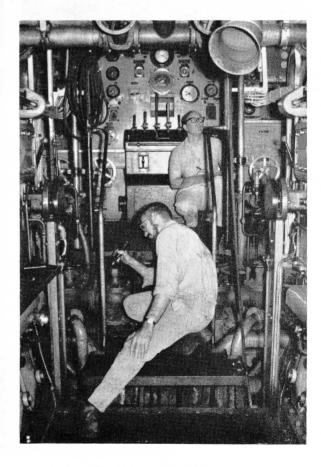


Gonzales Chief Fujio

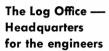
S.O.P. "Minor" maintenance problems handled with ease by the Pioneer's Black Gang



Gonzales



Hawthorne Chief Shapter



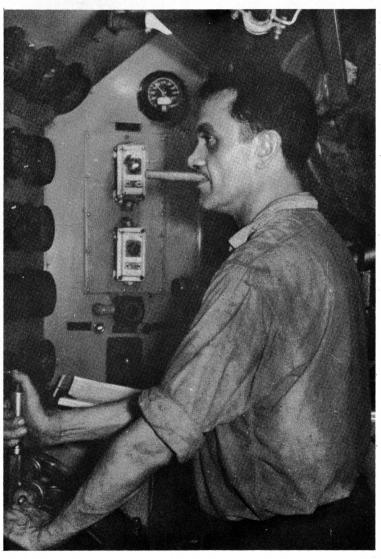


Chief Linn

Cdr. Uhrich

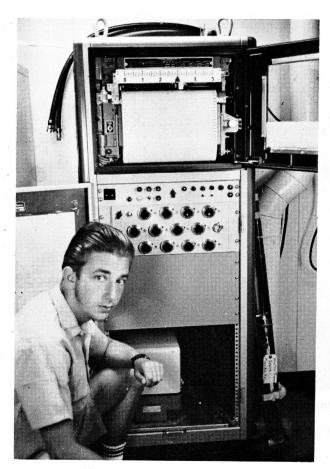


Chief Linn



**Chief Peaslee** 

# THE METEOROLOGISTS





Bert Soileau

Bert Soileau

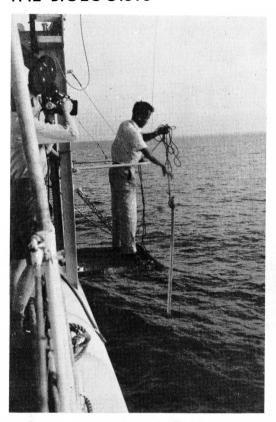
The weather birds were busy at all hours, entering navigational data on the automatic weather recorder, releasing radiosondes, and observing surface weather



Bert Soileau

**Melvin Fields** 

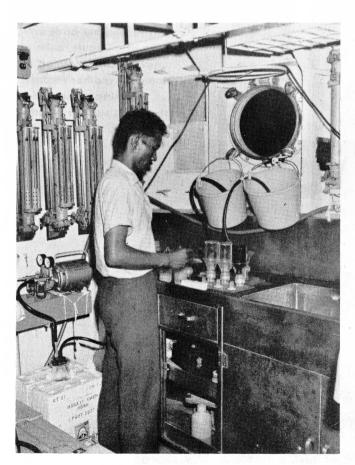
# THE BIOLOGISTS



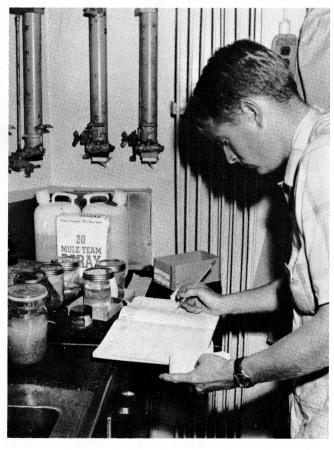
Bill Borgland Vic Alvarez
Obtaining a surface sample for the
primary productivity program



Stephen-Hassard Vic Alvarez Inoculating the water samples

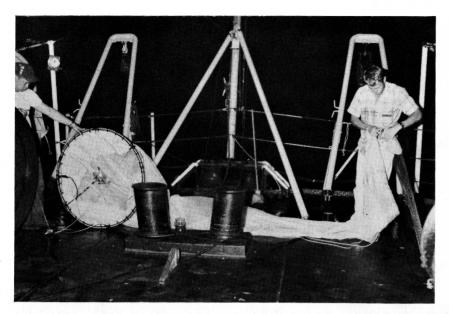


Dick Stephen-Hassard Keeps a careful record



Vic Alvarez filters the samples

# THE BIOLOGISTS



Dick Stephen-Hassard



The biologists maintained an active plankton sampling program



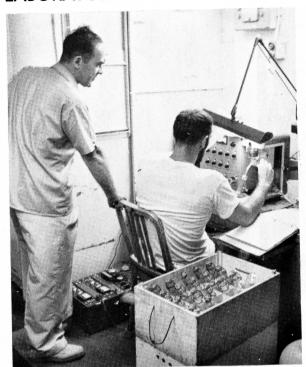
Anugerah Nontji Dick Stephen-Hassard Saum (Indonesia)



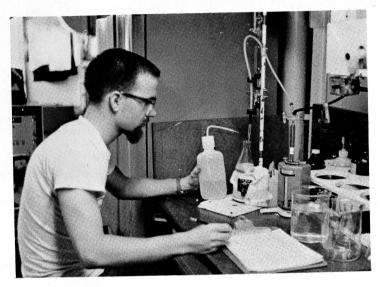
Capt. Brown

Vic Alvarez
Kanamu Dick Stephen-Hassard

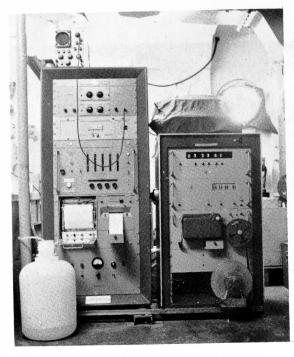
# LABORATORY WORK



Raymond Wilcove watches Rodgers running a salinity analysis



Knutson analysing seawater for oxygen content



The magnetometer console



Knutson
Operations in the gravity room



Ens. Bliss Ens. Jones Ens. Larsen

**Austin Weeks** Lt.(jg) Schimke



Grinnell

Ens. Lushene

**Magnetics computations** 

A stimulating program of wardroom seminars was maintained throughout the cruise



Dick Stephen-Hassard and Vic Alvarez giving Wardroom Seminar



Lt. Kotler, the electronics officer, had his hands full during the cruise



Chief Chase and Olamit match wits on the chess battlefield



Sweatt

Duggan



Kah Sin Ong (Malaysia)

Chief Abueg

Sweatt says he's Mr. America?



Ens. Bliss Ens. Moore

R. B. Perry

Vic Alvarez Ens. Jones Kevin Rudolfo Lt. Moses

# Funny-Money Games!



Duggan Padilla

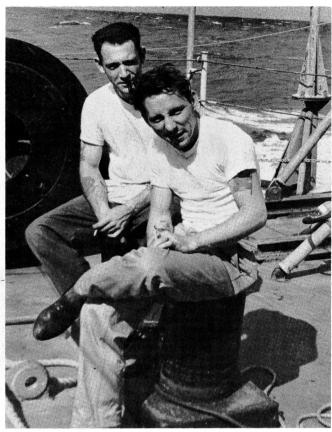
Bachar Bahilot

Yorkman Corpuz Ma

nan Matabirde

Halama Peralta





Ryan

Grinnell

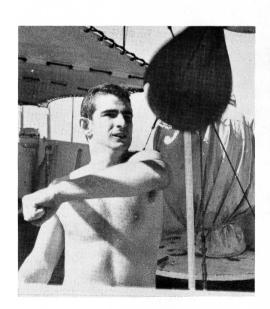
Kenneth

Serber

R. D.Johnson

**Chief Chase** 

A bit of relaxation on the fantail



Grinnell

Training for the Olympics?



Ramos Bacher

Stokes

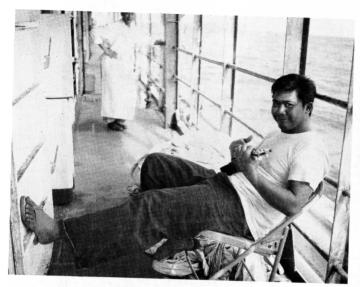
Padilla

Saum Burchett

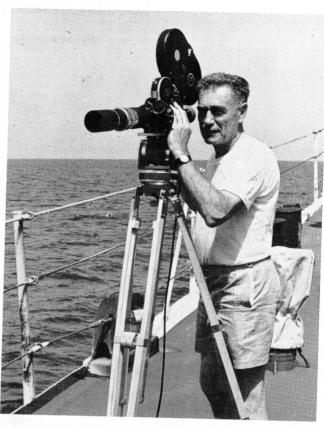
Chief Velasquez Yorkman Gealon

Watching the movies

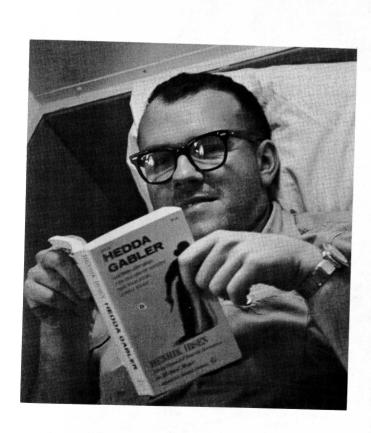
# RECREATION



Ramos and ukelele



Byron Hale, Official Photographer

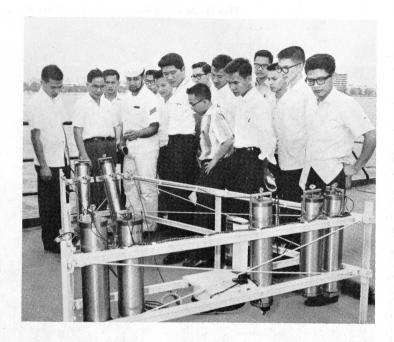


Lt. Spencer



Cmdr. Cole Practicing for Chapel services

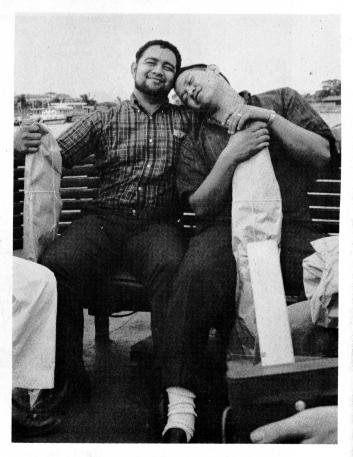
# MANILA, PHILIPPINE ISLANDS



Yorkman Philippine students at Open House see the Pioneer's deep-sea camera



Vic Alvarez
Open House at Manila



Yorkman and Kanamu after a hard day's shopping in Manila

# SCUBA DIVERS INVESTIGATE THE OCEAN BOTTOM AT SEA HORSE SHOALS, NORTHWEST OF NORTH BORNEO

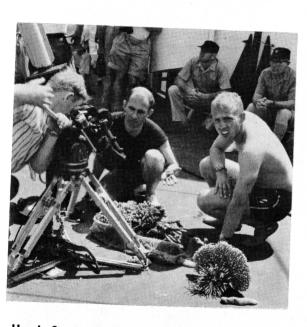


Ens. Larsen



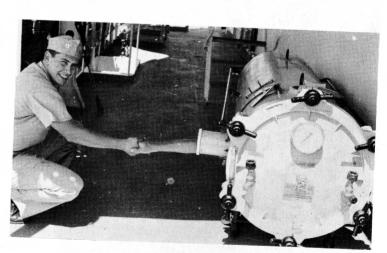
Ens. Larsen

sen Harris Stewart



Harris Stewart Ens. Hough

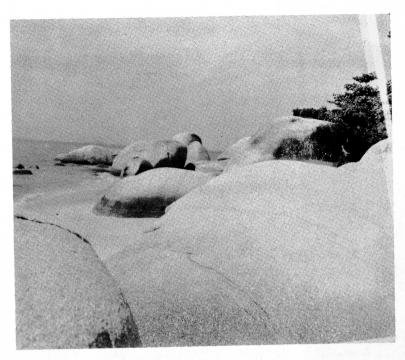
Ens. Hough Capt. Brown Ens. Larsen



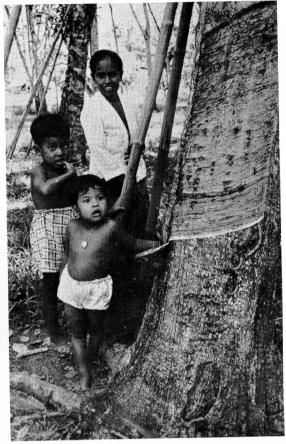
Lt. Kotler

Ens. Larsen in the new recompression chamber

# PENANG, FEDERATION OF MALAYA



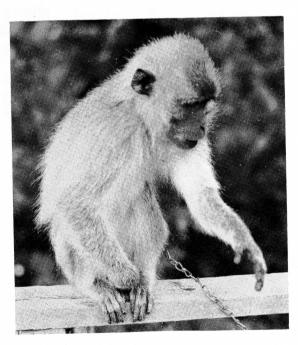
Beach on the west coast of Penang Island



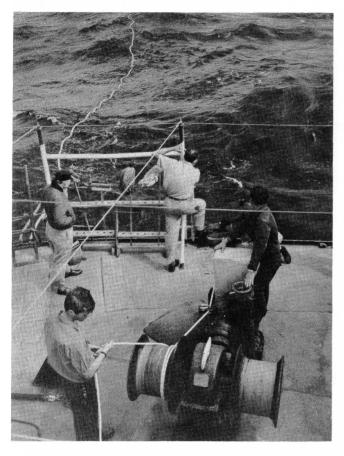
Natives on a rubber plantation



A temple in Georgetown



# GEOLOGICAL ECHO PROFILER PROGRAM, ANDAMAN SEA



Cdr. Cole Sanford

Maloy

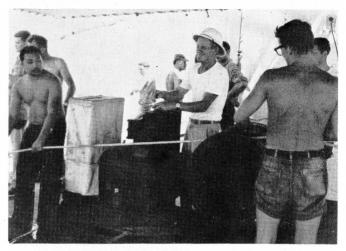
Chief Chase



Ens. Lushene John Lindberg

Sweatt

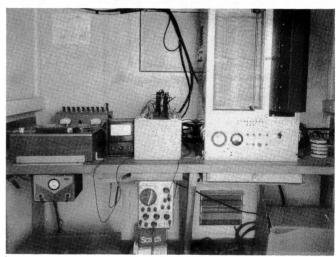
Reginald Harbison Chief Pykosz



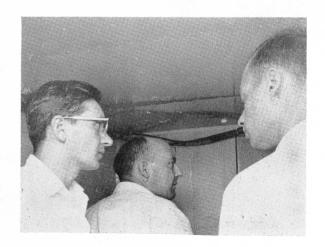
Amadeo

**Chief Lavery** 

Reitberger



Inside The GEP Shack

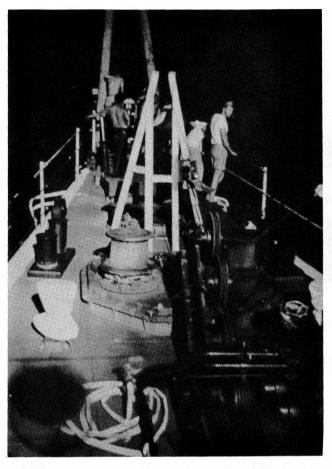


**George Peter** 

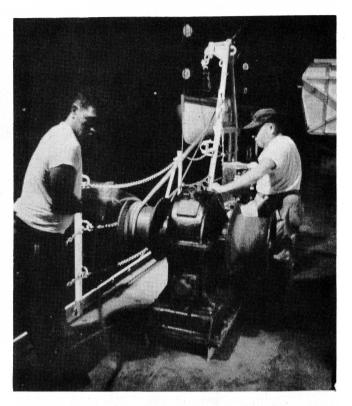
**Reginald Harbison** 

**Austin Weeks** 

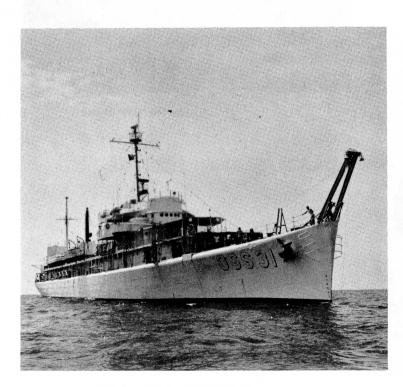
## CORING STATIONS, BAY OF BENGAL



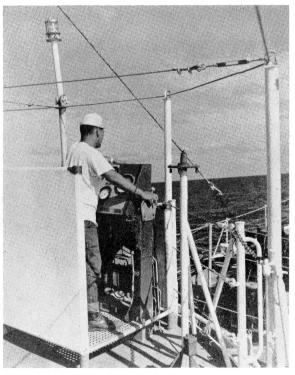
Lt. Moses oversees a night coring station



Padilla and Schildmuller man the whip



Sometimes it's a long wait while the corer goes to the bottom

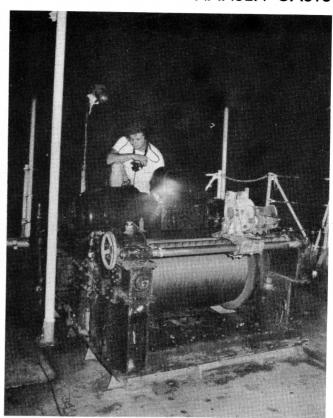


Halama Winch console

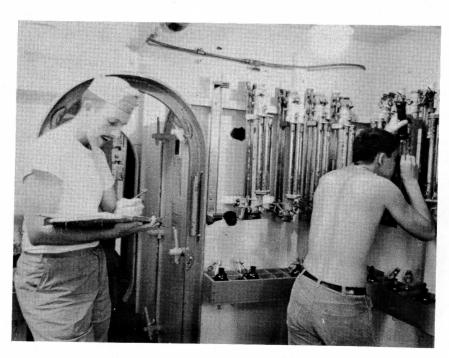
#### NANSEN CASTS



Reginald Jones attaches a nansen bottle to the wire



Sweatt
"Going down . . ."



Ens. Moore

"check . . ."

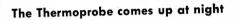
**Kevin Rodolfo** 

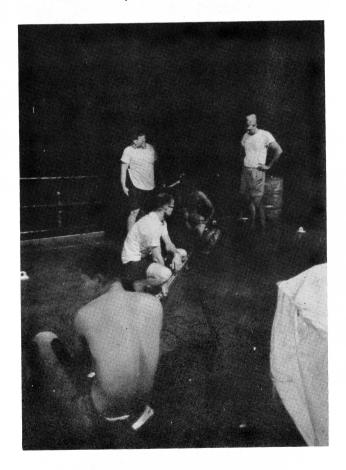
# BOTTOM-SAMPLING PROGRAM, MALACCA STRAITS



**Kevin Rodolfo** 

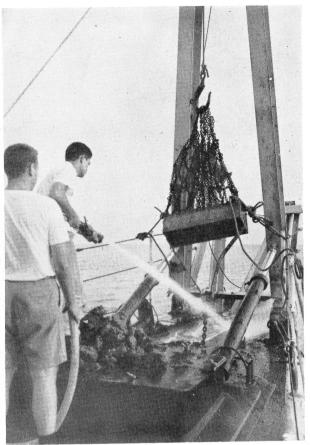
George Keller





Sweatt Reginald Jones Kevin Rodolfo

Lt. Moses



George Keller

**Kevin Rodolfo** 

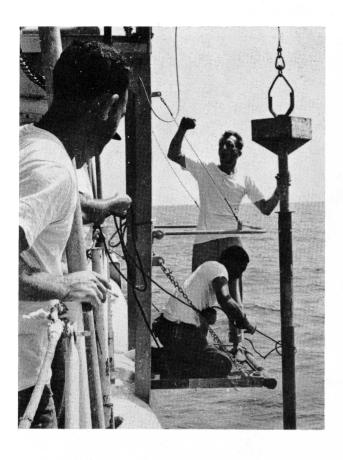


Ens. Hough

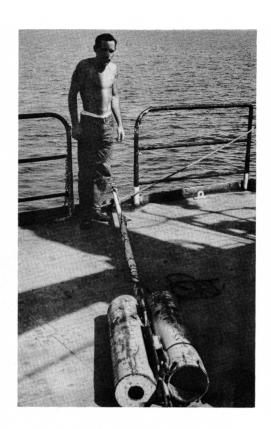
George Peter Kevin Rodolfo

Lt.(jg) Schimke

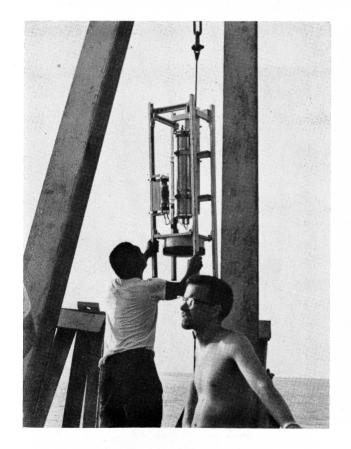
You never know what a dredge will bring up



Chief Pykosz and Padilla put over the small corer

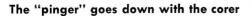


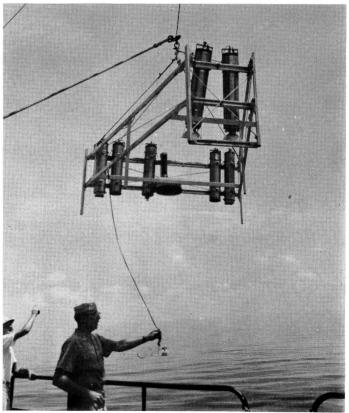
Chief Chase with the thermoprobe



Padilla

Knutson





**Chief Lavery** 

LCDR. Barbee

The deep-sea camera goes over the side

## SWIM CALL ON THE EQUATOR







Dick Stephen-Hassard

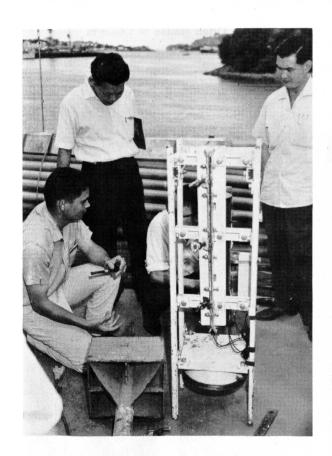
#### **SINGAPORE**



Visitors to the Open House



Lt.(jg) Schimke and Lt. Moses at the Tiger Balm Gardens

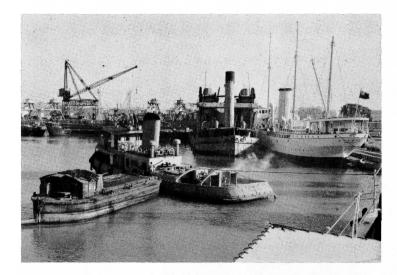


Kelvin Rodolfo shows visitors the "pinger"



Kelvin Rodolfo shows visitors the grab sampler

## CALCUTTA, INDIA

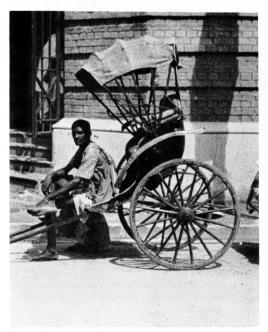




Open House in Calcutta



King George Harbor







Bert Soileau The effects of Calcutta

Typical scenes of Calcutta

# CEYLON, INDIA



Typical scenes of Ceylon







Captain Brown gives a press conference

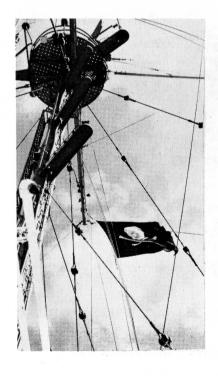
#### CROSSING THE EQUATOR CEREMONIES

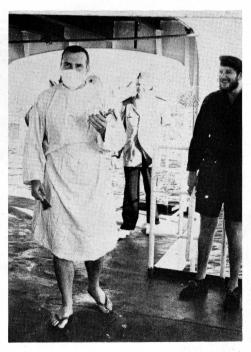
The ceremonies of Crossing the Line are almost as old as sea voyages. The Vikings, however, probably began such carryings-on and their customs were passed on to the Anglo-Saxons and Normans.

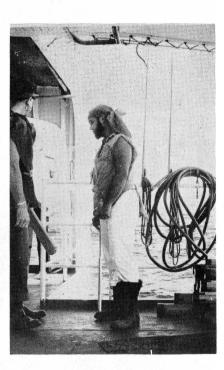
Those who have crossed the equator and suffered the ordeal set down by Davy Jones gain the honor of being called Shellbacks, and they are considered bona fide sons of Neptune. The oldest and most dignified senior Shellback of the crew is customarily selected as Neptunus Rex; his first assistant is Davy Jones; and King Neptune's court is usually made up of the Royal Judge, the Royal Doctor, the Devil and others that suit the fancy of the "King of the Seven Seas."

The morning of the day the ship makes the journey across the equator, Davy Jones appears on board with a message to the captain from His Majesty Neptunus Rex stating the hour the ship is to hove to for the reception of the Royal Party. At the same time all Pollywogs (those who have not crossed the equator before) are notified that because of their injustice to King Neptune they are to appear before him later that day.

During the ceremonies aboard the PIONEER, King Neptune found all those who were called before him guilty without a trial and sentenced each to sit in the electric chair and then be hosed with the fire hose. After they had satisfied King Neptune, Captain Brown handed out the Shellback certificates.







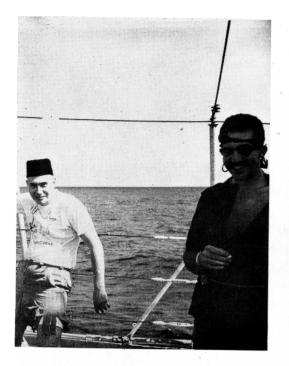
The Jolly Roger

Lt. Spencer The Royal Doctor

Sullivan

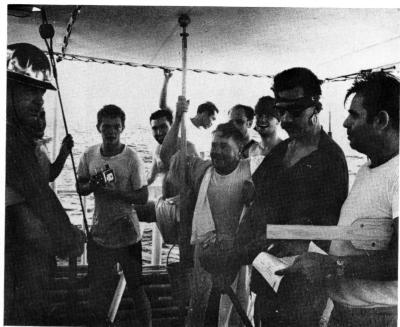
Chief Parsley Yorkman Members of the Royal Court

## CROSSING THE EQUATOR CEREMONIES



Lt. Kotler

**Chief Parsley** 

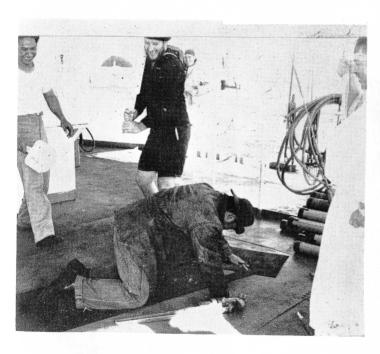


Cdr. Uhrich

Shaw

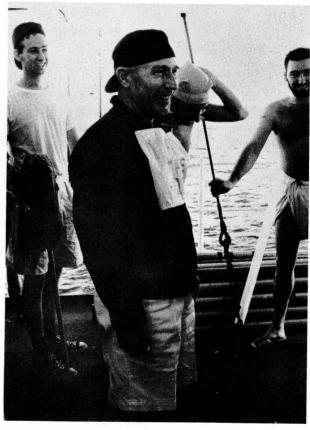
Burchett Woods Chief Schildmuller

Chief Greenberg Chief Parsley



Chief Abueg

Sullivan Chief Schildmuller A Nameless Pollywog

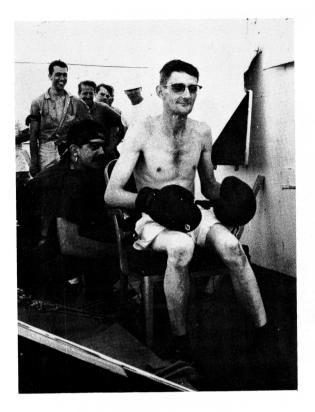


Ens. Jones

Bert Soileau Capt. Brown

Burchett

# CROSSING THE EQUATOR CEREMONIES



Ronald Reed Chief Parsley





**Chief Parsley** 

Saum

Breckbill and Saum "get the electric chair."

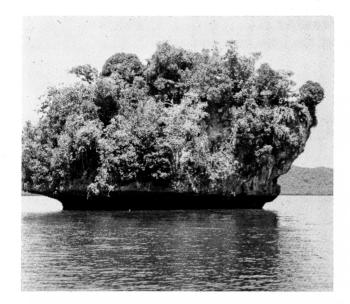


Capt. Brown
Captain Brown awards the Shellback certificates



A Pollywog gets hosed down

#### KOROR, PALAU ISLANDS











Grinnell

Mahinan Kanamu Bachar Ramos Kanamu demonstrates phenomenal muscle tone

Padilla



THE END

OF THE BOOK ABOUT A
NEAR PERFECT CRUISE

