

INTERNATIONAL INDIAN OCEAN EXPEDITION

30 EAST 40TH STREET · NEW YORK 16, N. Y. · LEXINGTON 2-6533

COORDINATOR
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CABLES
SCORINDOC · NEWYORK

SUMMARY OF SHIP PROGRAMS - APPENDIX A - BY AREAS

REGION I - (Arabian Sea to 10° N)

(France)

FNS COMMANDANT ROBERT GIRAUD - 1963 - Physical and Chemical
Oceanography
CALYPSO - 1962-63 - Physical and Chemical Oceanography

(Germany)

VESSEL - 1963-64 or 1964-65 - Biology, Physical Oceanography,
Geology and Geophysics.

(India)

INS KISTNA - 1962, 1963 - Biology, Physical Oceanography, Geology
and Geophysics, Meteorology.
R/V VARUNA - 1962, 1963 - Biological Oceanography, Physical
Oceanography, Chemistry, Geology and Geophysics, Meteorology.
R/V CONCH - 1962, 1963 - Biological Oceanography.

(Pakistan)

PNS ZULFIQUAR - 1962, 1963, 1964 - Physical and Chemical Oceano-
graphy, Biology, Geology and Geophysics, Meteorology.

(U.S.S.R.)

VITJAZ - 1962 - Physics, Geology and Geophysics, Biology.

(United Kingdom)

HMS DALRYMPLE - 1961-62, 1962-63 - Geology and Geophysics
(magnetic surveys and sediment studies)
HMS OWEN - 1961-62, 1962-63 - Geophysics, (bathymetry, magnetism,
gravity), Meteorology (synoptic observations).
RRS DISCOVERY III - 1963-64 - Biology, Chemistry, Physics,
Geophysics, Meteorology.

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REGION I - (Arabian Sea to 10° N

(United States

R/V VEMA - 1962, 1963 - Geology and Geophysics, Physics and
Chemistry, Biology.

R/V CONRAD - 1963 - Cruise not detailed.

WILLIAMSBURG - (based at Bombay, India) - 1963, 1964 - Biological
cruises. Meteorology (synoptic observations and radiosonde)

AUXILIARY VESSEL - (based at Bombay, India) - 1963 - Biology,
Geology.

ATLANTIS II - 1963 & 1965 - Physics and Chemistry, Geology and
Geophysics, Meteorology.

CHAIN - 1963-64, 1964-65 - Geology and Geophysics, Physics and
Chemistry.

HORIZON - 1962 - Geology and Geophysics.

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REGION II - (Bay of Bengal to 10° N)

(India)

INS KISTNA - 1962, 1963 - Biology, Physical Oceanography, Geology and Geophysics, Meteorology.
M.F.V. BANGADA - 1962, 1963 - Biological Oceanography.
NOT YET DESIGNATED - 1962, 1963 - (Naval coastal minesweeper ?) Biological Oceanography.

(Pakistan)

PNS ZULFIQUAR - 1962, 1963, 1964 - Physical and Chemical Oceanography, Biology, Geology and Geophysics, Meteorology.

(Thailand)

OCEANOGRAPHIC VESSEL NO. 2 - 1962-63 - Physical and Chemical Oceanography, Biological Oceanography, Geology Meteorology.

(U.S.S.R.)

VITJAZ - 1962 - Physics, Geology and Geophysics, Biology.

(United States)

WILLIAMSBURG - (based at Bombay, India) - 1963 - Biological cruises. Meteorology (synoptic observations and radiosonde).

AUXILIARY VESSEL - (based at Bombay, India) - 1963 - Biology, Geology.

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REGION III-Central Western Indian Ocean (10° N to 10° S-Africa to 78° E

(France)

FNS COMMANDANT ROBERT GIRAUD - 1962 or 1963 - Physical and Chemical Oceanography.

(India)

INS KISTNA - 1962, 1963 - Biology, Physical Oceanography, Geology and Geophysics, Meteorology.

R/V CONCH - 1962, 1963 - Biological Oceanography.

(U.S.S.R.)

VITJAZ - 1962 - Physics, Geology and Geophysics, Biology.

(United Kingdom)

HMS OWEN - 1961-62, 1962-63 - Geophysics (bathymetry, magnetism, gravity), Meteorology (synoptic observations).

RRS DISCOVERY III - 1963-64 - Physics, Chemistry, Biology, Geophysics, Meteorology.

(United States)

R/V VEMA - 1962, 1963 - Geophysics and Geology, Physics and Chemistry, Biology.

R/V CONRAD - 1963 - Cruise plans not detailed.

WILLIAMSBURG - (based at Bombay, India) - 1963, 1964 - Biological cruises. Meteorology (synoptic observations and radiosonde).

AUXILIARY VESSEL - (based at Bombay, India) - 1963, 1964 - Biology, Geology.

ATLANTIS II - 1963 & 1965 - Physics and Chemistry, Geology and Geophysics, Meteorology.

CHAIN - 1963-64, 1964-65 - Geology and Geophysics, Physics and Chemistry.

ARGO - 1962-63 - Physical Oceanography, Chemistry, Biology, Geology and Geophysics, Meteorology.

HORIZON - 1962 - Geology and Geophysics, Physical and Chemical Oceanography.

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REGION IV- Central Eastern Indian Ocean (10° N to 10° S, 78° E to Java)

(Australia)

- HMAS DIAMANTINA - 1962, 1963, 1964 - Biology, Chemistry, Physics, Meteorology (including radiosonde and radiation), possibly Geology and Geophysics.
- HMAS GASCOYNE - 1962, 1963 - Biology, Chemistry, Physics, Meteorology and possibly Geology and Geophysics.

(India)

- INS KISTNA - 1962, 1963 - Biology, Physical Oceanography, Geology and Geophysics, Meteorology.

(Japan)

- UMITAKA MARU - 1962-63, 1963-64 - Biology, Chemistry, Physics, Meteorology. 1963-64 - Geology and Geophysics added.
- RYOFU MARU - 1963-64 - Physics and Chemistry, Geology and Geophysics, Meteorology.
- KOYO MARU - 1962-63, 1963-64 - Biology, Geology, Meteorology.
- TAKUYO MARU - 1963-64 - Physics and Chemistry, Geology and Geophysics, Meteorology.
- KAGOSHIMA MARU - ~~1962-63~~, 1963-64 - Biology, Physics and Chemistry, Geology and Geophysics, Meteorology.

(Thailand)

- OCEANOGRAPHIC VESSEL NO. 2 - 1962-63 - Physical and Chemical Oceanography, Biological Oceanography, Geology, Meteorology.

(U.S.S.R.)

- VITJAZ - 1962 - Physics, Geology and Geophysics, Biology.

(United States)

- WILLIAMSBURG - (based at Bombay, India) - 1963 - Biological cruises. Meteorology (synoptic observations and radiosonde).
- AUXILIARY VESSEL - (based at Bombay, India) - 1963 - Biology, Geology.
- WEATHER SHIPS - 1963, 1964 - Meteorology. Also Biology, Chemistry and Physics.
- ARGO - 1962-63 - Physical Oceanography, Chemistry, Biology, Geology and Geophysics, Meteorology.

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REGION V - South Western Indian Ocean (Africa to 78° E south of 10° S)

(France)

FNS COMMANDANT ROBERT GIRAUD - 1962 or 1963 - Physical and Chemical Oceanography.
 BIOLOGICAL VESSEL - (based in Madagascar) - 1962 - Biological Oceanography.

(Portugal

PNS ALMIRANTE LACERDA - 1962, 1963 - Physical and Chemical Oceanography, Biology, Geology and Geophysics, Meteorology.

(South Africa)

NATAL - 1962, 1963 - Biology, Geology, Geophysics, Physics.
 AFRICANA II - 1961, 1962 - Physics, Chemistry, Biology.

(United Kingdom)

HMS OWEN - 1961-62, 1962-63 - Geophysics (bathymetry, magnetism, gravity), Meteorology (synoptic observations).

(United States

R/V Vema - 1962, 1963 - Geophysics and Geology, Physics and Chemistry, Biology.
 R/V CONRAD - 1963 - Cruise plans not detailed.
 WILLIAMSBURG - (based at Bombay, India) - 1963, 1964 - Biological cruises. Meteorology (synoptic observations and radiosonde).
 AUXILIARY VESSEL - (based at Bombay, India) - 1963, 1964 - Biology, Geology.
 ATLANTIS II - 1963, 1965 - Physics and Chemistry, Geology and Geophysics, Meteorology.
 CHAIN - 1963-64, 1964-65 - Geology and Geophysics, Physics and Chemistry.
 ARGO - 1962-63 - Physical Oceanography, Chemistry, Biology, Geology and Geophysics, Meteorology.
 HORIZON - 1962 - Geology and Geophysics, Physical and Chemical Oceanography.
 SPENCER F. BAIRD - 1964 - Geology and Geophysics, Chemistry.

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REGION VI - South Eastern Indian Ocean (78° E to Java south 10° S)

(Australia)

- HMAS DIAMANTINA - 1962, 1963, 1964 - Biology, Chemistry and Physics, Meteorology (including radiosonde and radiation) possibly Geology and Geophysics.
 HMAS GASCOYNE - 1962, 1963 - Biology, Chemistry, Physics, Meteorology, and possibly Geology and Geophysics.

(Japan)

- UMITAKA MARU - 1962-63, 1963-64 - Biology, Chemistry, Physics, Meteorology. 1963-64 - Geology and Geophysics.
 RYOFU MARU - 1963-64 - Physics and Chemistry, Geology and Geophysics, Meteorology.
 KOYO MARU - 1962-63, 1963-64 - Biology, Geology, Meteorology.
 TAKUYO MARU - 1963-64 - Physics and Chemistry, Geology and Geophysics, Meteorology.
 KAGOSHIMA MARU - ~~1962-63~~, 1963-64 - Biology, Physics and Chemistry, Geology and Geophysics, Meteorology.

(U.S.S.R.)

- VITJAZ - 1962 - Physics, Geology and Geophysics, Biology.

(United States)

- R/V CONRAD - 1963 - Cruise plans not detailed.
 WILLIAMSBURG - (based at Bombay, India) - 1963 - Biological CRUISES. Meteorology (synoptic observations and radiosonde).
 ARGO - 1962-63 - Physical Oceanography, Chemistry, Biology, Geology and Geophysics, Meteorology.
 HORIZON - 1962 - Geology and Geophysics, Physical and Chemical Oceanography.
 SPENCER F. BAIRD - 1964 - Geology and Geophysics, Chemistry.