

Persons With Whom Individual Discussions Were Held Concerning
The International Indian Ocean Expedition
During Trip 31 January to 25 March 1960

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JAPAN

3 - 6 February

POLICY SHAPERS

- HIDAKA, Koji, Dr. - Professor of Physical Oceanography at the Geophysical Institute, Tokyo University; also Chairman, National Committee on Oceanic Research, Science Council of Japan.
- KAYA, Seji, Dr. - President of Tokyo University, member of Executive Committee of ICSU, member of Council of Science and Technology of Japan, and Science Advisor to the Prime Minister.
- NICHIMURA, Mr. - Director General of the Fisheries Agency.
- WADACHI, Kiyoo, Dr. - Head of Japanese Meteorological Office, President of Japan's Science Council and member of Council of Science and Technology of Japan.

SENIOR SCIENTIFIC & ADMINISTRATIVE PERSONNEL

- MIXAKE, Yasuo, Dr. - of the Meteorological Research Institute.
- NAKANO, Masito, Dr. - Director of the Meteorological Training College, Japan Meteorological Agency and a lecturer at Tokyo University.
- SUGAWARA, Ken, Dr. - Professor of Analytical Chemistry and Geochemistry, Nagoya University.
- TSUKAMOTO, Y., Mr. - Chief Hydrographer.

OTHER SCIENTISTS

- FUJII, Y., Dr. - Associate of Dr. Wadachi in Oceanographic Section of Meteorological Agency.
- KOBE, S., Prof. - Professor of Economics at Waseda University.
- KUMAGORI, T., Dr. - of Fisheries University, also operates UNITAKA-MARU.
- NASU, Nariyuki, Dr. - Assistant Professor of Marine Geology, Geology Institute, Tokyo University.
- SIKINE, T., Dr. - President of Tokyo University of Fisheries.
- SUDA, Kanjii, Dr. - Associate of Chief Hydrographer, Director of Itto Kayo Hoankan, Kaijo Hoan Cho Suirobu.
- UDA, Michitaka, Dr. - Professor of Oceanography, Tokyo University of Fisheries.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

- BOSS, Dr. - Scientific Attache, U. S. Embassy.
- HALL, Robert, Mr. - Japanese representative of the Asia Foundation.
- PEARCE, John E., Jr., LCDR, USN - Assistant Naval Attache, U. S. Embassy.
- VAN CAMPEN, Mr. - Fisheries Attache, U. S. Embassy

OTHER PERSONAL CONTACTS

MAHARA, Shinichi, Mr. - The Mainichi Newspapers

SINGAPORE

7 & 8 February 1960

OTHER SCIENTISTS

BEARE, Ronald F. R., Mr. - of the Office of the U.K. Commissioner

THAM Rah Kow, Dr. - of the Singapore Ministry of National Development

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

AIRY, H. V., LCIE, USN - Assistant U. S. Naval Liaison Officer

INDONESIA

9 & 10 February 1960

POLICY SHAPERS

KASLAN Tohir, Mr. - Secretary General of the Department of Agriculture.

KOESNOTO Setyodiwiryo, Dr. - Chairman of the Indonesian National Committee on Oceanic Research.

MARTADINATA, Eddy, Commodore - Chief of Naval Staff, Republic of Indonesia, Secretary of the Navy, and Chairman of the Intergovernmental Committee on Shipping and Navigation.

SANIN, Hasnuddin, Mr. - Secretary of the Indonesian National Committee on Oceanic Research, and Head of the Laboratory of Inland Fisheries.

SARWONO Prawirohardjo, Dr. - President of Madjelis Iluma Pengetahuan Indonesia (MIPI)

SOEDIMAN Kartohadiprodjo, Dr. - Executive Director of Indonesian Science Council (MIPI)

SOERIAATMADJA, R., Mr. - Vice Chairman of the National Committee on Oceanic Research, also Head of the Institute of Marine Research, Department of Agriculture.

SUDJARNO, Mr. - Western European Desk in the Ministry of Foreign Affairs (is former Indonesian Ambassador to the U.N.).

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

SOEBROTO, R., Mr. - Head of the Bureau of Foreign Relations and UNESCO of the Department of Education.

SUPIT, Miss - of the Social Section of the Directorate of International Organizations in the Ministry of Foreign Affairs.

SURAHARDJA, Tandjano, Mr. - Chief of the Hydrological Service of the Department of Sea Communications.

YAMIN, Prof. - President of the National Planning Council.

OTHER SCIENTISTS

- AUMANAUW, A. L., Mr. - of the Hydrological Service, Department of Sea Communications.
 FATEH, Abdallah, Mr. - Geologist and geophysicist, Meteorological Institute of the Department of Land Communications.
 GATOT Rahardjo Jusuf, Dr. - of the Institute of Marine Research of the Central Institute of Nature Research (Botanical Garden), Department of Agriculture, and member of Indonesian Science Council (MIPI).
 IBRAHIM, Tarus, Mr., M.S.c. - of the Sea Fisheries Service.
 MASINAMBOW, E. K. M., Mr. - Member of Indonesian Science Council (MIPI) staff.
 MANLOHY, Mr. - of the Institute of Marine Research, Department of Agriculture and member of Indonesian National Committee on Oceanic Research.
 SADIKIN, Mr. - Director of the Botanical Garden (Bogor).
 SANIN, Hasmuddin, Mr. - Secretary of the Indonesian National Committee on Oceanic Research, and Head of the Laboratory of Inland Fisheries.
 SUSANTO, Mr. - of Sea Fisheries Service, Department of Agriculture.
 SHEE Kim Wie, ^{NY} member of Indonesian Council (MIPI).

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

- GRANT, Robert, Mr. - of the U. S. Operations Mission (ICA).
 HALL, Raymond, Dr. - Head of the U. S. Operations Mission (ICA).
 HARRIS, Michael, Mr. - of the Ford Foundation, Djakarta.
 HENDERSON, Mr. - Charge d'Affaires, U. S. Embassy.
 JONES, Howard P. - U. S. Ambassador to Ceylon.
 LEE, Mr. - Political Attaché, U. S. Embassy
 McCartney, LCOL, USMC - Naval Attaché, U. S. Embassy.

OTHER PERSONAL CONTACTS

- MIKHAILOV, Dr. - Deputy Director of UNESCO Science Cooperation Office for Southeast Asia.

CEYLON

12 - 16 February 1960

POLICY SHAPERS

- DAS GUPTA, B. B., Dr. - Additional Deputy Chairman of the Planning Council of Ceylon.
 de FONSECA, D. T. E. A., Mr. - Director of Fisheries for Ceylon and Coordinator for the International Indian Ocean Expedition.
 DE MEL, V. S. M., Mr. - Permanent Secretary, Ministry of Fisheries and Industries.
 DE MEL, Royce, RADM - Chief of Ceylonese Navy.
 SUNTHARALINGAM, R., Dr. - Director, Ceylon Institute for Scientific and Industrial Research.
 TENNEKOON, H. E., Mr., M.B.E. - Permanent Secretary, Ministry of Defense and Foreign Affairs.
 THOMPSON, J. Kenneth, Dr. - Director, Colombo Plan Bureau.
 WEERASEKERA, J. D., Mr. - Minister of Fisheries and Industries.

SENIOR SCIENTISTS AND ADMINISTRATIVE PERSONNEL

- KANDASANY, Dr. - Head of the Meteorological Service for Ceylon.
- PAUL, L. R. G., Dr. - President of the Ceylon Association for the Advancement of Science.
- RABARETNAM, V., Mr. - Surveyor General of Ceylon.

OTHER SCIENTISTS

- MAHADEVA, N., Dr. - Research Officer, Department of Fisheries.
- SIVALINGAM, S., Mr. - Research Officer in the Department of Fisheries, and Chairman of Section D of the Ceylon Association for the Advancement of Science.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

- DUPLER, Bernard - U. S. Ambassador to Ceylon.
- LINCOLN, Robert, Mr. - Public Information at the U. S. Embassy.
- PHILAN, James, GER, USN - U. S. Naval Attaché.
- ROACH, John, Mr. - Head of the U. S. Operations Mission (ICA)
- SMITH, Burr, Dr. - Counselor at the Embassy, and Assistant Chief of Mission.

OTHER PERSONAL CONTACTS

- FERNANDO, E. C., Mrs. - of the Colombo Plan Bureau.
- HENRICUS, G., CAPT - Deputy Master Attendant of the Port of Colombo.
- KIRTISINGHE, P., Mrs. - former reader in Zoology, University of Ceylon.
- NORMANDEALE, CAPT - Master Attendant of the Port of Colombo.

INDIA

16 - 22 February 1960
25 February to 2 March 1960

POLICY SHAPERS

- BHABHA, Homi J., Dr. - (Bombay) - Chief of Indian Government Atomic Energy Establishment, a Director of the Tata Institute of Fundamental Research, and Chairman, Scientific Advisory Committee to the Cabinet.
- CHATTERJI, A. K., RAJN, IN (New Delhi) - Deputy Chief of Naval Staff, Indian Navy.
- KOPARI, D. S., Dr. - (New Delhi) - Scientific Advisor to the Ministry of Defense and member of Scientific Advisory Committee to the Cabinet.
- KRISHNAN, M. S., Prof. - (Waltair) - Professor of Geology - retired from the Indian Geological Survey and member of Central Board of Geophysics.
- KRISHNAN, K. F., Dr. - (New Delhi) - Director of the National Physical Laboratory, member of Scientific Advisory Committee to the Cabinet and member of ICSU.
- MAHADEVAN, G., Prof. - (Waltair) - Head of Geology Department, Andhra University and Principal of the University Colleges.

- RACHAKRISHNAN, Sarvepalli, Dr. (New Delhi) - Vice President of India.**
RAMANATHAN, K. R. Dr. - (New Delhi) - Director, Physical Research Laboratory, Naurangpura, Ahmedabad City, Chairman of Central Board of Geophysics, Past President of IUGG, also member of ICSU.
THACKER, M. S., Prof. - (New Delhi) - Secretary, Ministry of Scientific Research and Cultural Affairs, member of Scientific Advisory Committee to the Cabinet, and also Director of the Council of Scientific and Industrial Research.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

- BAL, D. V., Dr. - (Bombay) - Director of Institute of Science.**
CHOKSI, R., Prof. - (Bombay) - Director of the Tata Institute of Fundamental Research.
GANAPATI, P. N., Prof. - (Waltair) - Head of the Zoology Department, Andhra University.
GOCH, Mr. - (New Delhi) - Joint Secretary for Administration of the Ministry of Scientific Research and Cultural Affairs.
KAPOOR, G. S., Commodore - (Waltair) - Commanding, East Coast, with headquarters in Vizagapatnam.
KRISHNA, E. S., Dr. - (Waltair) - Vice Chancellor, Andhra University.
KRISHNA RAO, Mr. - (New Delhi) - Head of the Meteorological Service.
NANDA, G., Dr. - (New Delhi) - Principle Scientific Officer for the Navy in the Defense Department, also in charge of Naval Physical Laboratory at Cochin.
PANIKKAR, N. K., Dr. - (New Delhi) - The Fisheries Advisor, Ministry of Agriculture.
PURI, I. K., CAPT - (New Delhi) - Hydrographer of the Indian Navy.
RAMANATHAN, R., Dr. - (Waltair) - Professor of Geophysics, Andhra University.
SOMAN, B. S., RAJN - (Bombay) - Indian Navy, Flag Officer, Bombay.
WADIA, D. M., Dr. - (New Delhi) - Geologist to the Atomic Energy Commission, former Chairman of the Central Board of Geophysics.

OTHER SCIENTISTS

- ASWATHANARAYANA, A. U., Dr. - (Waltair) - Department of Geology, Andhra University.**
DULT, S., Dr. - (Waltair) - Department of Geology, Andhra University.
GEORGE, A. I., Mr. - (Bombay) - Deputy Director, Government of India Deep-Sea Fishing Station.
GNANAMATHU, G., Dr. - (Madras) - Director, Zoology Research Laboratory, Madras University.
RAMASASTRY, Siva, Mr. - (Waltair) - Department of Geophysics, Andhra University.
RAO, M. Poomchandra, Dr. - (Waltair) - Department of Geology, Andhra University.
RAO, T. S. S., Dr. - (Waltair) - Biologist, Andhra University
SARMA, B. G., Dr. - (Waltair) - Department of Geology, Andhra University.
VARADACHARI, V. V. R., Dr. - (Waltair) - Department of Geophysics, Andhra University.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

- BROWN, Winthrop G., Mr. - (New Delhi) - U. S. Minister and Deputy Chief of Mission.**
CHAPPELL, John R., LCDR, USN - (New Delhi) - Acting Naval Attaché.
CUMMINGS, Ralph, Dr. - (New Delhi) - Head of Rockefeller Foundation in New Delhi.
ENSMINGER, Douglas, Mr. - (New Delhi) - Head of Ford Foundation in India.
HOFFMAN, Paul, Mr. - (New Delhi) - Director of the U. N. Special Fund.
O'NEILL, John, Mr. - (New Delhi) - Administration Aide to the U. S. Ambassador.
WATSON, Dr. - (New Delhi) - Scientific Attaché, U. S. Embassy.
WOOD, C. Tylor, Mr. - (New Delhi) - Head of the Technical Cooperation Mission (ICA).

OTHER PERSONAL CONTACTS

- DAHEIJA, Mr. - (Bombay) - Chairman of the Bombay Port Trust.
- HOFFMAN, Peter G., Mr. - (New Delhi) - Paul Hoffman's son.
- REHLING, Quentin A., Mr. - (New Delhi) - Paul Hoffman's aide.
- TELLIS, CDR - (Waltair) - Indian Navy, Commander of Indian Naval Base at Vizagapatnam.

PAKISTAN

22 - 24 February 1960

POLICY SHAPERS

- ASGAR, Ali, Mr. - Joint Secretary, Ministry of Defense.
- HASHMI, M. N. A., Mr. - Surveyor General of Pakistan and Chairman, National Committee on Geology and Geophysics (NCGG).
- ISLAM, S. R., CDR, PN - Head of Pakistan Naval Hydrographic Office and Chairman, Pakistan National Committee for SCOR.
- NAQVI, S. D., Mr. - Head of Meteorological Observatory.
- QURESHI, M. R., Dr. - Director of Fisheries, Pakistan Government.
- SIDDIQUI, Salim-us-Zaman, Dr. - Director of Pakistan Council of Scientific and Industrial Research, also member of Pakistan National Committee to SCOR.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

- KANN, M. K., Mr. - Pakistan Meteorological Department.
- QURESHI, M. M. Dr. - Chief Scientist of the Pakistan Council of Scientific and Industrial Research (CSIR).
- NAHMAN, H., Dr. - of the Pakistan Geological Survey

OTHER SCIENTISTS

- SIDDIQUI, R. H., Dr. - of the Department of Chemistry of the University of Karachi.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

- BROOKS, Evelyn, Miss - Second Secretary of the American Embassy.
- FILLIPONE, S., CAPT, USN - Naval Attaché.
- HALL, Mr. - Deputy Chief of Mission.
- HUTCHINSON, William S., Mr. - Deputy Public Affairs Officer, USIS.

OTHER PERSONAL CONTACTS

- FRANKS, Sir Oliver - formerly British Ambassador to the United States and currently Chairman of Lloyd's Bank in London.
- KEEN, James, Mr. - United Nations Technical Assistance Administration representative in New Delhi.
- QURAISSHEE, G. S., LT., PN - Meteorological Officer in the Hydrographic Office of the Pakistan Navy.

U.S.S.R.

2 - 6 March 1960

POLICY SHAPERS

- KOLESNIKOV, A., Prof. - In charge of the Department of Marine Physics at Moscow University.
- KORT, V. G., Prof. - Director of the Institute of Oceanography of the U.S.S.R. Academy of Sciences.
- ZENKEVITSH, L., Prof. - Chairman of the Soviet Committee on Oceanography of the U.S.S.R. Academy of Sciences.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

- DOBROVOLSKY, Alexei Demitriovich, Prof. - Professor of oceanography at Moscow University.
- IVANOV, A. - Director of the Marine Hydrological Institute.
- IVANOV, M. - Meteorological Service, Deputy Director.
- MURONTSEV, A. - State Oceanographic Institution, Institute Oceanographer.
- PAPANIN, I., RAIM - In charge of the Department of Marine Expedition of the U.S.S.R. Academy of Sciences.
- RYZHKOVA, K. P., Commodore - Consultant on Marine Meteorology and Oceanography, Hydrometeorological Service.
- SUSJUMOV, E. - Deputy Director of the Department of Marine Expedition of the U.S.S.R. Academy of Sciences.
- UJERTCHAK, A. - Director of the State Oceanographic Institute.

OTHER SCIENTISTS

- FELEMAN, Gabriel, Dr. - Interpreter and a member of the staff of the Committee on Oceanography.
- PAVLOVA, A., Mrs. - Interpreter and member of Department of Marine Physics, University of Moscow.
- ZHIVAGO, A. - of the Geographical Institute, a marine geologist.

OTHER PERSONAL CONTACTS

- ZABELINA, E., Mrs. - U.S.S.R. Academy of Sciences, Secretary of Committee on Oceanography.

THE U.K.

8 - 16 March 1960

POLICY SHAPERS

- BULLARD, Sir Edward - Geophysicist at Cambridge University who represents the Royal Society on the British National Committee for Oceanic Research.
- CARROLL, Sir John - Scientific Advisor to the Board of Admiralty and Controller of the Navy.
- DEACON, G. E. R., Dr. - Chairman of the British National Committee for Oceanic Research and Director, National Institute of Oceanography.
- HICKLING, C.F., Dr., C.M.S. - Fisheries Advisor, Colonial Office.

MARTIN, D. C., Dr., C.B.E. - Assistant Secretary, The Royal Society.
 PETERS, Sir Rudolph - President of ICSU.
 WILLIS, H. F., Dr., C.B. - Chief of the Royal Naval Scientific Service and also
 Chairman of the N.I.O. Executive Committee.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

COLLINS, K. St.B., RANM., C.B. - The Hydrographer of the Navy.
 HUMPHREY, George, Dr. - Chairman of the Australian National Committee.
 IRVING, W. G., CAPT., RN - Assistant Hydrographer of the Navy (will relieve ADM Collins
 in early July).

OTHER SCIENTISTS

CARUTHERS, Dr. - Physical Oceanographer at N.I.O.
 CURRIE, R. I., Mr. - Marine biologist at N.I.O. and represents the Challenger
 Society on the British National Committee for Oceanic Research.
 FRASER, F. G., Dr. - Zoologist at the British Museum (Natural History).
 HILL, Morris N., Dr. - Cambridge University Marine Geologist.
 MAC INTOSH, Dr. - of N.I.O.
 MARSHALL, Norman B., Dr. - of the British Museum (Natural History).
 SUTCLIFFE, R. G., Dr. - Research Director at Meteorological Office.
 WELLS, "Gib", Prof. - Professor of Marine Biology, University of London.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

HENNETT, Bradley CAPT, USN - Assistant Naval Attaché and Commanding Officer of the
 Office of Naval Research Detachment in London.

OTHER PERSONAL CONTACTS

FARRAR-BROWN, Leslie, Mr. - Director, Nuffield Foundation.
 REDMAN, Sir Harold, LTGEN - of the Isaac Wolfson Foundation.
 SCARLETT, Mr. - Assistant to Dr. Hickling.

WEST GERMANY

7 & 8 March 1960

POLICY SHAPERS

BOHNECKE, Günther, Dr. - Director, German Hydrographic Bureau.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

DIETRICH, Dr. - Physical Oceanographer, University of Kiel.

THE NETHERLANDS

16 & 17 March 1960

POLICY SHAPERS

FRASER, Ronald, Dr. - Secretary of ICSU.

OTHER SCIENTISTS

POSTMA, H., Dr. - Member of Netherland's National Committee for SCOR

SWITZERLAND

17 March 1960

POLICY SHAPERS

DAVIES, D. A., Dr. - Secretary General, World Meteorological Organisation.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

LANGLO, I., Dr. - Research Coordinator, WMO.

PORTUGAL

17 - 19 March 1960

POLICY SHAPERS

de NORONHA Oliveira ANDRADE, Luis, RAHM - Prospective Hydrographer of Portugal
 PARS CLEMENTE, Adelino, Eng. - Director General, Geographic and Cadastral Institute,
 Chairman, Portuguese IGY Committee.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

PEREIRA PARREIRA, José Augusto, CAPT - President, Technical Consultative Commission
 for Hydrography and Navigation, Government
 of Portugal.

U. S. CITIZENS BRIEFED ABOUT RESULTS OF DISCUSSIONS

AREY, Richard, CER, USN - U. S. Naval Attaché.

OTHER PERSONAL CONTACTS

DOS SANTOS, José Ribeiro, Dr. - Gulbenkian Foundation.

FRANCE

19 -25 March 1960

POLICY SHAPERS

LACOMBE, H., Prof. - Member of French National Committee for SCOR.
 PACQUE, Roger, Mr. - Secretary, French National Committee for SCOR.
 STEEMAN-NIELSEN E., Dr. - Chairman, Danish National Committee for SCOR.

SENIOR SCIENTIFIC AND ADMINISTRATIVE PERSONNEL

COUSTEAU, J. Y., Commandant - Directeur du Musée Océanographique de Monaco
EYRIES, Marc., Mr. - Member of French National Committee for SCOR.

OTHER SCIENTISTS

CHU Tsu-You, Dr. - Member of Chinese National Committee for SCOR.
NEEV, David, Mr. - Member of Israel National Committee for SCOR.
TCHERNIA, Paul, Dr. - Physical Oceanographer and member of French National
Committee for SCOR.

- ANALYSIS OF CONTACTS -

Country	Policy Shapers	Senior Scientific & Administrative Personnel	Other Scientists	U.S. Citizens	Other Contacts	TOTAL
Japan	4	4	7	4	1	20
Singapore			2	1		3
Indonesia	8	11	10	7	2	38
Ceylon	8	3	2	5	4	22
India	9	13	9	8	4	43
Pakistan	6	3	1	4	3	17
U.S.S.R.	3	8	3		1	15
West Germany	1	1				2
U.K.	7	3	8	1	3	22
The Netherlands	1		1			2
Switzerland	1	1				2
Portugal	2	1		1	1	5
France	3	2	3			8
TOTALS:	53	43	46	31	18	191
	28%	23%	23%	16%	10%	