



Department of State

TELEGRAM

ACTION
ECON
INFO
CG
DPO
POL
RF
CHRON

UNCLASSIFIED

Classification

JULY 29, 1971

PTF

JD/C

AW

R 282209Z JUL 71
FM AMEMBASSY BOGOTA
TO RUEHC/SECSTATE WASHDC 8926
INFO RUESUP/AMCONGEN SAO PAULO 49
BT
UNCLAS BOGOTA 4732

SAO PAULO FOR DR. IRVING FRIEDMAN

SUBJECT: DR. FRIEDMAN'S TRIP

REF: STATE 134746

1. DUE LACK FIRM TRAVEL PLANS ON DR. FRIEDMAN'S TRIP
EMBASSY SUGGESTS HE COME DIRECTLY TO BOGOTA UPON
ARRIVING LETICIA. HERE WE CAN PUT HIM IN CONTACT
WITH APPROPRIATE AUTHORITIES AND EXPERTS.

2. CONTACTS IN EMBASSY ARE DR. CHARLES KLONTZ AND
FSO ROBERT DRISCOLL.

SACCIO

BT

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7/29/1130/CGC

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JULY 26, 1971

RF

JDC - hold w/ other cables for subsequent action

R 232259Z JUL 71
FM AMEMBASSY LIMA
TO RUESUP/AMCONSUL SAO PAULO 74
INFO RUEHC/SECSTATE WASHDC 8861
BT
UNCLAS LIMA 4252

SUBJ: DR IRVING FRIEDMAN'S RESEARCH ON AMAZON RIVER

REF: STATE 131673

NOTE CONCERNING DETAILS RESEARCH REFTTEL DELIVERED TO MIN FOR AFFAIRS TODAY. ING LUIS VEGA SEDANO OF SERVICIO NACIONAL DE METEOROLOGIA E HIDDROLOGIA (SENAMI) ADDRESS, REPUBLICAC DE CHILE 295, OFFICE 205, LIMA PERU TO ASSIST DR FRIEDMAN IN LIMA AND PLACE HIM IN CONTACT WITH SENAMI OFFICIALS IN IQUITOS AREA. PLEASE RELAY DATA CONCERNING EXPECTED TIME ARRIVAL IN PERU.

CLARK

BT

7/26/1045/CGC

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JULY 26, 1971

7/26 JAF

J.O.C - This seems to be the missing link.

R 261619Z JUL 71
FM SECSTATE WASHDC
TO RUESBG/AMEMBASSY BOGOTA 0143
RUESLZ/AMEMBASSY LA PAZ 6396
RUESLM/AMEMBASSY LIMA 8337
RUESQI/AMEMBASSY QUITO 6609
RUESUA/AMEMBASSY RIO DE JANEIRO 6388
INFO RUESUP/AMCONSUL SAO PAULO 1573
RUESUD/AMEMBASSY BRASILIA 2849
BT
UNCLAS STATE 134746

SAO PAULO FOR DR. IRVING FRIEDMAN

REF: STATE 131673

DR. FRIEDMAN'S IAEA ASSIGNMENT IN BRAZIL DELAYED
BECAUSE OF ILLNESS HIS BRAZILIAN COUNTERPART. FRIEDMAN
NOW SCHEDULED ARRIVE SAO PAULO FOR IAEA ASSIGNMENT BETWEEN
AUGUST 15 AND AUGUST 25. ROGERS
BT

7/26/1600/CGC

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JULY 23, 1971

~~PAT~~

~~JOE~~

R 222221Z JUL 71
FM AMEMBASSY QUITO
TO RUEHC/SECSTATE WASHDC 2236
INFO RUESUA/AMEMBASSY RIO DE JANEIRO 229
RUESUP/AMCONSUL SAO PAULO 025
RUESQIP/AMCONSUL GUAYAQUIL 3578
BT
UNCLAS QUITO 3019

RIO FOR WILCOX, SAO PAULO FOR FRIEDMAN

REF: STATE 131673

1. AEC CONTACTS QUITO ARE DRS. JOSE VAREA AND OSWALDO LOAYZA, ECUADOREAN AEC, INSTITUTO NACIONAL DE NUTRICION IN QUITO, AND DR. WILMA PALACIOS IN GUAYAQUIL. LOAYZA ANXIOUS TO MEET FRIEDMAN. ECUADOREAN AEC WELL KNOWN TO WILCOX IN RIO. NO OBJECTIONS SEEN BY LOAYZA.

2. PLEASE ADVISE ON HOTEL AND TRANSPORTATION NEEDS FROM QUITO. FRIEDMAN SHOULD HAVE ECUADOREAN VISA.

BURNS

7/23/0930/CGC

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JULY 22, 1971

R 221258Z JUL 71
FM AMEMBASSY RIO DE JANEIRO
TO RUESUP/AMCONSUL SAO PAULO 6983
INFO RUEHC/SECSTATE WASHDC 1460
BT
UNCLAS RIO DE JANEIRO 5216

REF: STATE 131673

REQUEST FRIEDMAN CONTACT MAX G. WHITE, USGS REPRESENTATIVE, RIO,
AT EARLY CONVENIENT OPPORTUNITY CONCERNING REFTEL.

ROUNTREE

7/22/1500/CGC

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JULY 21, 1971

*Copy of this cable sent Dr. Friedman
by mail 7/22. PDX*

I.W./AW - Pls. hold this cable.

R 211644Z JUL 71
FM SECSTATE WASHDC
TO RUESBG/AMEMBASSY BOGOTA 0081
RUESLZ/AMEMBASSY LA PAZ 6359
RUESLM/AMEMBASSY LIMA 8293
RUESQI/AMEMBASSY QUITO 6558
RUESUA/AMEMBASSY RIO DE JANEIRO 6301
INFO RUESUP/AMCONSUL SAO PAULO 1560
RUESUD/AMEMBASSY BRASILIA 2794
BT
UNCLAS STATE 131673

SAO PAULO FOR DR. IRVING FRIEDMAN

1. DR. IRVING FRIEDMAN, RESEARCH CHEMIST, US GEOLOGICAL SURVEY, PRESENTLY IN BRAZIL UNDER AUSPICES OF INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA) FOR ONE-MONTH ASSIGNMENT AS EXPERT IN FIELD OF RADIOISOTOPES IN HYDROLOGY AT THE CENTRO DE ENERGIA NUCLEAR NA AGRICULTURA, PIRACICABA, SAO PAULO.

2. SUBSEQUENT TO HIS IAEA ASSIGNMENT, DR. FRIEDMAN PROPOSES TRAVEL TO AS YET UNDESIGNATED SITES IN COLOMBIA, BOLIVIA, ECUADOR AND PERU FOR ABOUT TWO WEEKS FOR PURPOSE ESTABLISHING WATER SAMPLING NETWORK ON AMAZON AND ON LARGER TRIBUTARIES TO AMAZON. PURPOSE THIS NETWORK WOULD BE TO COLLECT WATER SAMPLES AT SPECIFIC TIMES OF YEAR TO BE ANALYZED FOR THEIR DEUTERIUM AND O18 CONTENT. THESE ANALYSES SHOULD ALLOW DETERMINATION ON AMOUNTS OF WATER THAT ARE CONTRIBUTED TO THE SOUTH AMERICAN CONTINENT FROM THE VARIOUS AIR MASSES THAT ARE ACTIVE IN REGION. SPECIFICALLY FRIEDMAN WOULD LIKE TO DETERMINE HOW MUCH OF WATER WHICH PRECIPITATES IN SOUTH AMERICAN CONTINENT ORIGINATES FROM THE CARIBBEAN, ATLANTIC, AND PACIFIC. AMAZON ESSENTIALLY DRAINS WHOLE SOUTH AMERICAN CONTINENT WITH EXCEPTION OF SOME DRAINAGE ALONG ORINOCO AND PLATTE. AMAZON THUS PRESENTS

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PAGE 2 FROM STATE

UNIQUE OPPORTUNITY TO ESSENTIALLY STUDY DRAINAGE OF CONTINENT. IT IS ANTICIPATED THAT ANALYTICAL WORK WOULD BE DONE BY THE BRAZILIANS IN BRAZIL AND THAT DR. FRIEDMAN'S PART IN THE OPERATION WOULD BE TO HELP PLAN SAMPLING NETWORK, TO SEE THAT THE SAMPLING SITES ARE SATISFACTORY AND TO HELP WITH INTERPRETATIONS OF DATA. IN ORDER TO SET UP SUCH A SAMPLING NETWORK IT WOULD BE NECESSARY FOR DR. FRIEDMAN, ACCOMPANIED BY ONE OF THE BRAZILIANS, TO TRAVEL THE LENGTH OF AMAZON AND A SHORT WAY UP MAJOR TRIBUTARIES TO CONTACT RESPONSIBLE INDIVIDUALS WHO WILL BE DOING THE SAMPLING. IN ADDITION, IT WOULD BE NECESSARY FOR HIM TO TRAVEL TO SPECIFIC SITES IN COLOMBIA, ECUADOR, PERU AND BOLIVIA. AT THIS POINT DIFFICULT ESTABLISH FIRM ITINERARY, BUT IF NECESSARY PERMISSIONS ARE GRANTED, FRIEDMAN WOULD PLAN TO MAKE THESE COLLECTIONS EITHER DURING END OF JULY OR FIRST TWO WEEKS IN AUGUST 1971.

3. THIS TRIP PROVIDES UNIQUE OPPORTUNITY TO SECURE INFORMATION OF GREAT SCIENTIFIC VALUE TO US GEOLOGICAL SURVEY'S STUDY OF DEUTERIUM AND O¹⁸ AS APPLIED TO HYDROLOGICAL AND METEOROLOGICAL PROBLEMS. RESULTS, OF COURSE, WOULD BE AVAILABLE ENTIRE SCIENTIFIC COMMUNITY.

4. REQUEST EMBASSIES CONSULT APPROPRIATE HOST GOVT OFFICIALS AND ADVISE RESPONSE, INCLUDING NAME AND ADDRESS APPROPRIATE CONTACT. REPEAT RESPONSES TO AMCONGEN SAO PAULO FOR FRIEDMAN.

ROGERS

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