

~~SECRET~~

28 March 1967

To: ~~WAT~~ *WAT*
From: OEG
Subject: Navy Memos re MCGWG Material

25X1A

1. called to say that a copy of the memo of 16 March 1967 to the Director, Defence Intelligence Agency (DIAMC) was sent to you for information and not for any action at this time in the interest of the MCGWG. You sent 26 copies out to all participants under cover of MCGWG-D-8.

2. A copy of another memorandum, dated 15 March 1967 and relating to geodetic data support of a program is also being sent to you for information only and not for any action on your part. *attache L*

*OK
by WAT*

3. Bob wants to have the opportunity to coordinate such internal DoD questions prior to formal presentation to the MCGWG, since this is DIAMC's function. He stressed that he had no objection to your receipt of information copies of such memoranda but requests that no distribution action be taken for the reasons given.

Attachments:

- 1. 16 Mar memo
- 2. 15 Mar memo.

Secondary referral to NIMA/NGA by DIA, ER&LB/FWG, 9/17/04.

DIA and NAVY review(s) completed.

25X1



[Redacted]
(15 March 1967)

From: Commander, Naval Oceanographic Office
To: Chairman, Tri-Service DAFF Data Reduction Committee,
Department of the Army

Subj: Geodetic Data Support DAFF Data Reduction Program (TS)

Ref: (a) Tri-Service DAFF Data Reduction Program (Mar 65) (TS)

Encl: (1) Project Magnet Airborne Geomagnetic Survey

1. (U) As indicated in enclosure (1) NAVOCEANO's Project Magnet Aircraft NC 121K (Constellation type) is scheduled to depart on a round-the-world flight to conduct airborne geomagnetic surveys. A new addition to the on-board navigation system is an [Redacted] navigation satellite receiver.

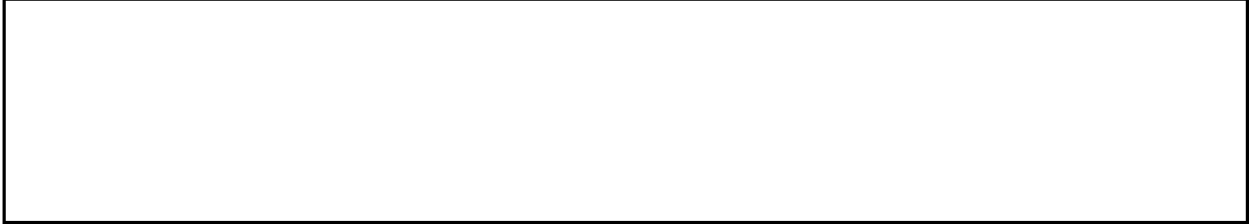
25X1

2. (S) While the scientific aspects of this survey are totally unclassified and available to the world-wide scientific community

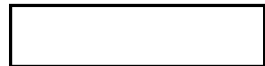
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25X1A



E. W. Wolf
E. W. WOLF
By direction



AIRMAIL

From: Commander, Naval Oceanographic Office
To: Distribution List

Subj: Oceanographic Office Project A31-744, Project MAGNET Airborne
Geomagnetic Survey

Ref: (a) OPNAVINST 3160.3B
(b) H.O. 15373 - General Specification for Airborne Geomagnetic
Survey - Project MAGNET
(c) USAF Foreign Clearance Guide
(d) OPNAVINST 03710.2C

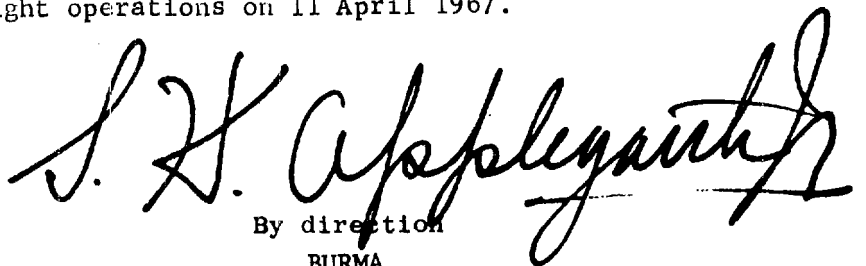
Encl: (1) NAVOCEANO Project A31-744 - Flight Schedule and Specific
Clearance Information
(2) Project MAGNET - General Background Information
(3) Project MAGNET - General Press Release

1. Pursuant to references (a) and (b), a series of geomagnetic survey flights, designated Oceanographic Office Project A31-744 has been planned in coordination with the Commander, Oceanographic Air Survey Unit. The scheduled flights are described in enclosure (1), which also includes specific information required for the negotiation of clearances as indicated by references (c) and (d). Enclosure (2) provides general background information on Project MAGNET for the guidance of clearance officials. Contingent on host country approval, the Oceanographic Office plans gravity measurements utilizing portable gravimeters, and position observations implementing the SRN-9 navigation satellite receiver at each place on the itinerary, as also described in enclosure (2). Enclosure (3) is an official press release on Project MAGNET.

2. The Commander, Naval Oceanographic Office has State Department and Department of Defense approval to request clearances directly from Embassies concerned by means of this letter. Accordingly, cognizant United States diplomatic officials in the countries concerned are requested to arrange the necessary clearances, and notify the Commander, Naval Oceanographic Office, and the Commander, Oceanographic Air Survey Unit, Patuxent River, Maryland, upon receipt of clearances, with information copy to the Chief of Naval Operations, the State Department, and Department of Defense OSD/ISA/FMRA. This action is requested prior to departure of aircraft on 11 April 1967.

3. Major military commands are requested to provide theater clearances as appropriate and/or required. Copies of this letter are provided other addressees for advance information and for possible comment.

4. The Commander, Oceanographic Air Survey Unit, is requested to commence Project A31-744 flight operations on 11 April 1967.



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NIGERIA

AMEMBASSY LAGOS

REPUBLIC OF SINGAPORE

AMEMBASSY SINGAPORE

NAVOCEANO Project A31-744 - Flight Schedule
and Specific Clearance Information

1. Purpose.

To conduct an airborne geomagnetic survey. In addition, to make land gravity measurements and monitor the reception of satellite navigation signals at each place on the itinerary.

2. Flight Schedule.

<u>Place</u>	<u>Arrive</u>		<u>Depart</u>	
	<u>Standard</u>	<u>GMT</u>	<u>Standard</u>	<u>GMT</u>
Washington, D. C.			Apr	111000 111500
San Francisco, California	111745	120145		132030 140430
Honolulu, Hawaii	140630	141630		172130 180730
Kwajalein, Marshal Is.	190630	181830		202130 200930
Port Moresby, Papua	210630	202030		230700 222100
Republic of Singapore	231715	230945		280745 280015
Rangoon, Burma	281315	280645		302200 301530
Colombo, Ceylon	010700	010130	May	030815 030245
Colombo, Ceylon	032300	031730		052000 051430
Nairobi, Kenya	060630	060330		100700 100400
Abidjan, Ivory Coast	101740	101740		130800 130800
Dakar, Senegal	132000	132000		152000 152000
Piarco, Trinidad	160615	161015		190530 190930
San Juan, Puerto Rico	191815	192215		230400 230800
San Juan, Puerto Rico	231830	232230		251800 252200
Acapulco, Mexico	260800	261400		291800 300000
San Francisco, California	300845	301645	Jun	010900 011700
Amarillo, Texas	011515	012215		020730 021430
Washington, D. C.	021615	022115		

3. Flight Routing - See World Chart attachment (1) to enclosure (1).

<u>Depart</u>	<u>Via</u>	<u>Arrive</u>	<u>Track No.</u>
Washington, D. C.	37-55N/077-00W Fly 37-55N parallel to 37-55N/103-00W 37-55N/102-00W Fly 37-55N parallel to 37-55N/121-10W	San Francisco, Calif.	869
San Francisco, Calif.	30-00N/122-00W 30-00N/150-00W	Honolulu, Hawaii	B324
Honolulu, Hawaii	12-00N/169-00W 05-25N/178-00E	Kwajalein, Marshall Is.	B325
Kwajalein, Marshall Is.	02-00N/168-25E 02-00S/147-30E 03-35S/143-40E	Port Moresby, Papua	B326

<u>Depart</u>	<u>Via</u>	<u>Arrive</u>	<u>Track No.</u>
Port Moresby, Papua	07-00S/142-00E 07-00S/135-00E 03-45S/123-00E 01-00S/110-00E 01-20N/105-30E 01-14N/104-00E		
Republic of Singapore	01-14N/104-00E 01-14N/104-00E 00-50N/103-35E 02-45N/100-30E 02-25N/096-30E 16-00N/096-30E	Republic of Singapore	B327
Rangoon, Burma	16-00N/096-30E 02-25N/096-30E	Rangoon, Burma	566
Colombo, Ceylon	00-30S/083-30E 08-00N/077-00E 10-15N/073-25E 01-40S/073-10E 09-15S/072-20E 01-40S/073-10E 10-15N/073-25E	Colombo, Ceylon	567
Colombo, Ceylon	08-00N/077-00E 03-00N/078-00E 02-00N/070-00E 01-55S/050-00E	Colombo, Ceylon	568
Nairobi, Kenya	02-20S/040-55E 00-00/037-00E 03-45N/035-00E 12-00N/023-00E 07-20N/014-00E	Nairobi, Kenya	569
Abidjan, Ivory Coast	07-00N/002-00W 06-30N/001-25W	Abidjan, Ivory Coast	T-226
	(Special Survey: See attachment (2) to enclosure (1)) 21-07N/011-25W		
Dakar, Senegal	(Special Survey: See attachment (3) to enclosure (1)) 10-00N/017-30W 07-30N/020-00W	Dakar, Senegal	T-227
Piarco, Trinidad	08-00N/059-00W 10-00N/059-50W 14-15N/064-40W 12-00N/058-15W 16-00N/058-00W 14-15N/064-40W 18-30N/059-00W 20-00N/061-30W 14-15N/064-40W	Piarco, Trinidad	155
		San Juan, Puerto Rico	156

<u>Depart</u>	<u>Via</u>	<u>Arrive</u>	<u>Track No.</u>
San Juan, Puerto Rico	(Special Survey: See attachment (4) to enclosure (1))	San Juan, Puerto Rico	157
San Juan, Puerto Rico	15-45N/062-30W 15-45N/057-00W 14-00N/057-00W 14-15N/064-40W 11-00N/098-00W	Acapulco, Mexico	158
Acapulco, Mexico	21-00N/113-00W 25-00N/106-30W 28-15N/110-00W 24-35N/116-00W 26-30N/117-30W 30-30N/111-00W 32-00N/112-35W		
San Francisco, Calif.	28-00N/118-45W 37-50N/121-10W	San Francisco, Calif.	B328
Amarillo, Texas	Fly 37-50N parallel to 37-50N/102-00W 37-50N/103-00W	Amarillo, Texas	870
	Fly 37-50N parallel to 37-50N/077-00W	Washington, D. C.	871

4. Specific Additional Clearance/Support Information Required by Individual Countries.

a. Australia

Fuel required 6500 gals 115/145 AVGAS
Landing gross weight 100,000 lbs
Tire pressure - 135psi
Fund citation - Appn. 1771804.1911 O&MN 67, Exp. Acct. 33281, Bureau Control Activity 01611, Bureau Control No. 61753, Object Class 26, Chargeable Activity 09004.

b. Burma

Fund citation - Appn. 1771804.1911 O&MN 67, Exp. Acct. 33281, Bureau Control Activity 01611, Bureau Control No. 61753, Object Class 26, Chargeable Activity 09004.

c. Cameroon

ETA and position of entry Cameroon Airspace: 101200Z May, 08-05N/015-25E

ETD and position of departure Cameroon Airspace: 101300Z May, 07-25N/011-50E

d. Ceylon

Fuel required 14,000 gals 115/145 AVGAS

e. India

Enter Laccadive Is. ETA 030440Z May

Exit Laccadive Is. ETD 030450Z May

Enter Laccadive Is. ETA 031525Z May

Exit Laccadive Is. ETD 031535Z May

f. Indonesia

(1) Track B-327 (Port Moresby to Singapore)

Enter West New Guinea 07-00S/141-00E, ETA 22255Z Apr

Exit West New Guinea 07-00S/138-35E, ETD 222350Z Apr

Enter Makassar FIR 07-00S/135-00E, ETA 230035Z Apr

via 03-40S/123-00E

Exit Makassar FIR 02-50S/118-00E, ETD 230535Z Apr

Enter Surabaya FIR 02-50S/118-00E, ETA 230535Z Apr

via 01-00S/110-00E

Exit Surabaya FIR 00-00/108-00E, ETD 230825Z Apr

(2) Track 566 (Singapore to Rangoon)

Exit Singapore ADIZ 01-14N/104-00E, ETD 280025Z Apr

via 00-50N/103-35E

Enter Djakarta FIR 01-45N/102-10E, ETA 280100Z Apr

via 02-45N/100-30E

02-25N/096-30E

Exit Djakarta FIR 06-00N/096-30E, ETD 280340Z Apr

(3) Track 567 (Rangoon to Colombo)

Enter Djakarta FIR 06-00N/096-30E, ETA 301830Z Apr

Enter Indonesia 05-15N/096-30E, ETA 301845Z Apr

via 02-25N/096-30E

Exit Indonesia 02-20N/096-15E, ETD 301935Z Apr

Exit Djakarta FIR 01-35N/092-30E, ETD 302040Z Apr

g. Kenya

ETA and position of entry point: 060220Z May, 02-15S/041-00E

ETD and position of exit point: 100545Z May, 04-20N/034-10E

h. Republic of Singapore

Entry point and ETA ADIZ boundary 01-14N/104-00E on 230940Z Apr
Fuel required 3500 gals 115/145 AVGAS
Lodging required for 20 people
Fund citation - Appn. 1771804.1911 O&MN 67, Exp. Acct. 33281,
Bureau Control Activity 01611, Bureau Control
No. 61753, Object Class 26, Chargeable
Activity 09004.

i. Senegal

Landing and service fee will be paid by Navy Form 44
Fuel required 7500 gals 115/145 AVGAS

j. Sudan

ETA and position of entry into Sudan: 100555Z May, 04-20N/034-10E
ETD and position of departure Sudan: 100945Z May, 11-50N/022-35E

5. Arrival and Departure Points.

The aircraft will pass over the radio beacon of the airfield at flight altitude after takeoff and before landing insofar as this will not interfere with local regulation or safety of flight.

6. Clearances Required.

(a) Overfly and Land

<u>Country</u>	<u>City, Territory, Island</u>	<u>Airport</u>
Australia	Port Moresby, Papua (New Guinea)	Jacksons
Burma	Rangoon	Mingaladon
Ceylon	Colombo	Colombo/Katunayake
Ivory Coast	Abidjan	Port Bouet
Kenya	Nairobi	Nairobi
Mexico	Acapulco	Acapulco
Republic of Singapore	Singapore	Tengah
Senegal	Dakar	Yof
Trinidad	Port-of-Spain	Piarco

(b) Overfly only

Australia (Admiralty Islands, Territory of New Guinea)
Cameroon
Dahomey
Chad
Ghana
Ceylon (Maldivé Islands)

India (Laccadive Islands)
Indonesia (Borneo, Celebes, Sumatra, Pulau Simeulue Is.,
West New Guinea)
Mali
Mauritania
Nicaragua
Nigeria
Sudan
Togo
United Kingdom (Chagos Islands, Grenadine Islands)
Upper Volta

7. Waiver of Reclearance Requirements.

All addressees concerned with obtaining clearances are requested, if possible, to obtain a waiver of reclearance requirements because strict adherence to the flight schedule may be impossible due to weather conditions and aircraft or equipment maintenance. A waiver period of fifteen (15) days early to fifteen (15) days late is desired. Proper authorities will be notified by the most rapid communication means available if deviations from the flight schedule become necessary. In no event will flights be made without proper clearance according to ICAO procedures.

8. Hotel Accommodations.

The assistance of addressees in foreign areas in securing hotel reservations is requested. The Officer-in-Charge Project MAGNET BRAVO will be personally responsible for any financial obligations incurred by addressees in making requested arrangements including costs incurred in the event of cancellation.

9. Aircraft Type and Serial.

NC-121K, Bureau Number 145925. No alternate aircraft.

10. Aircraft Radio.

- a. Frequencies - LF, MF, HF, VHF, UHF
- b. Voice Call - Navy 145925
- c. International C. W. call - N-145925

11. Passenger, Cargo, and Armament.

None.

12. Cameras.

No aerial cameras. Members of the crew carry personal hand cameras which will be used in accordance with local regulations.

13. Pilot in Command.

Lieutenant Commander Ray L. Triplett, Officer-in-Charge, Project MAGNET BRAVO.

14. Senior Scientist.

Mr. William K. Archer, Geophysicist, GS-12, U. S. Naval Oceanographic Office Representative.

15. Crew (including Pilot in Command and Senior NAVOCEANO Scientist).

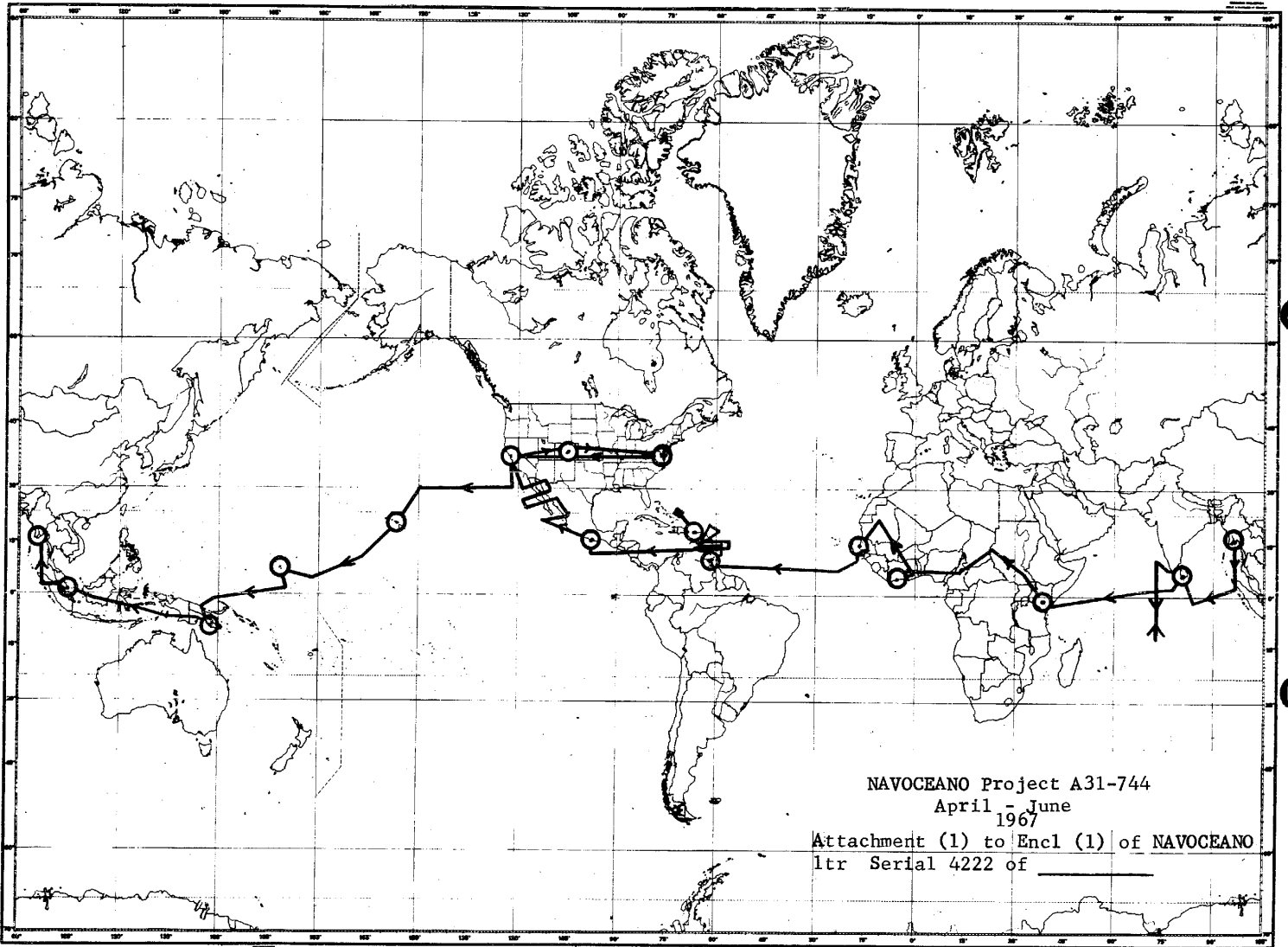
a. Flight crew

<u>Name</u>	<u>Rank/Rate</u>	<u>Service/File No.</u>	<u>Position</u>	<u>Passport No.</u>
Triplett, Ray L.	LCDR	418016/1315	Plane Commander	
Godleski, Frank S.	LT	667601/1315	Co-Pilot	Y345725
Patterson, Dale W.	LT	592265/1310	Co-Pilot	
Hinzman, Robert E.	LT	663206/1325	Navigator	Y342169
Brown, Robert G.	LTJG	692415/1325	Navigator	Y484736
Long, James F.	LTJG	694422/1325	Navigator	Y422953
Morrisette, Robert J.	AMHC	9011361	Crew Chief	Y144005
Barnhill, Louis E.	ADRC	2640078	Plane Captain	Y143707
Heaton, James H.	ADR1	4238894	Flight Engineer	Y455674
True, Ernest V.	ADR2	4914883	Flight Mechanic	Y423042
Deuser, Carl F.	ADR2	2895574	Flight Mechanic	Y494116
Gallion, Martin	ATC	8558319	Radioman	Y321446
McLucas, William D.	AT1	4822157	Radioman	Y489488
Raines, Authur V.	AE2	6951602	Electrician	Y382066
Wills, Richard A.	AMH1	5242635	Metalsmith	Y449194

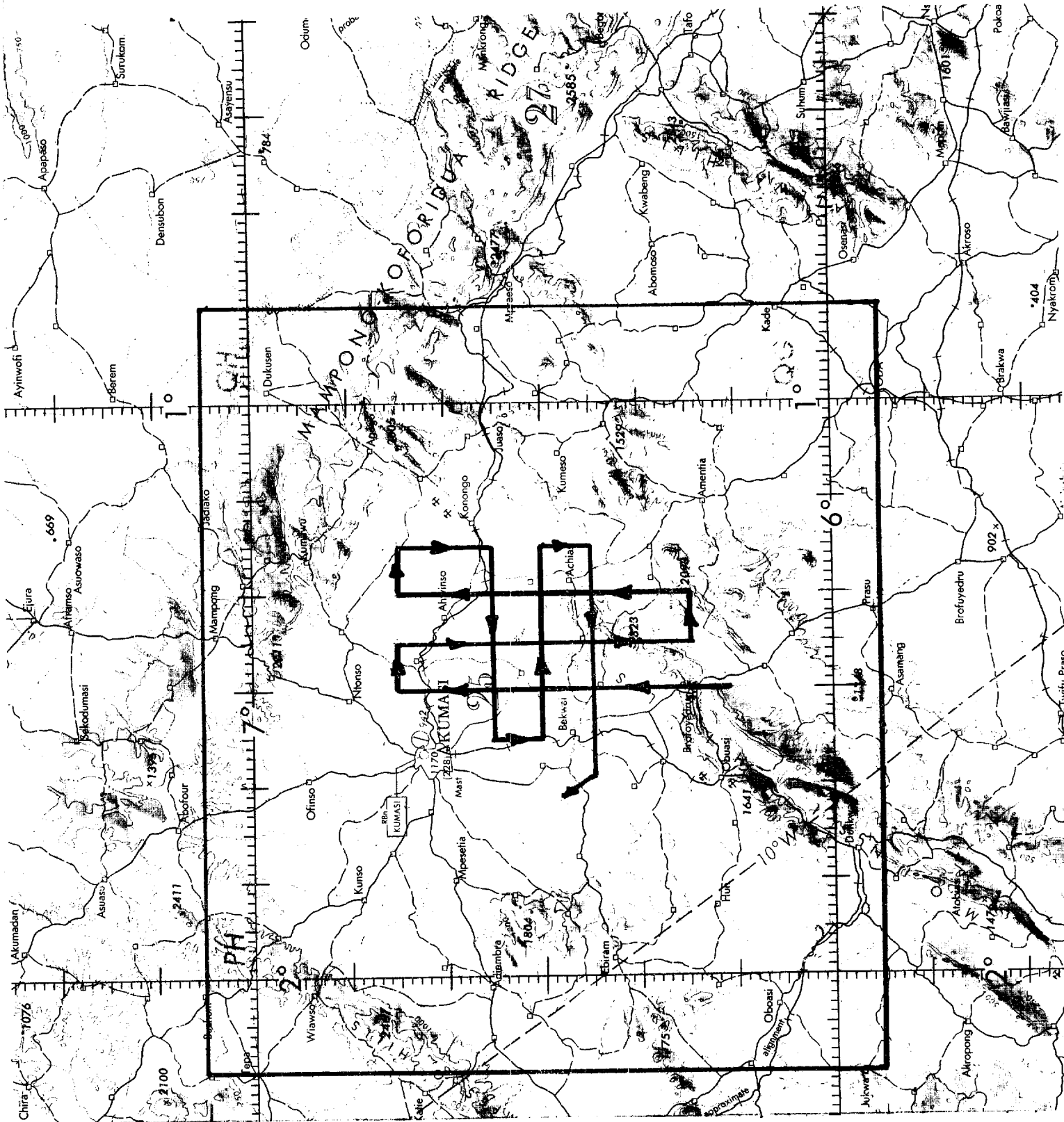
b. Scientific personnel

<u>Name</u>	<u>Grade</u>	<u>DOD Card No.</u>	<u>Position</u>	<u>Passport No.</u>
Archer, William K.	GS-12	N080871	Sen. Geophysicist	Y372956
Irwin, Louis A.	GS-9	N129321	Geophysicist	Y350384
Frawley, James J.	GS-5	N129450	Geophysicist	Y416756
Smith, Ronald H.	GS-5		Geophysicist	
Butler, Roy E.	GS-11	N129655	Geodesist	Y497935

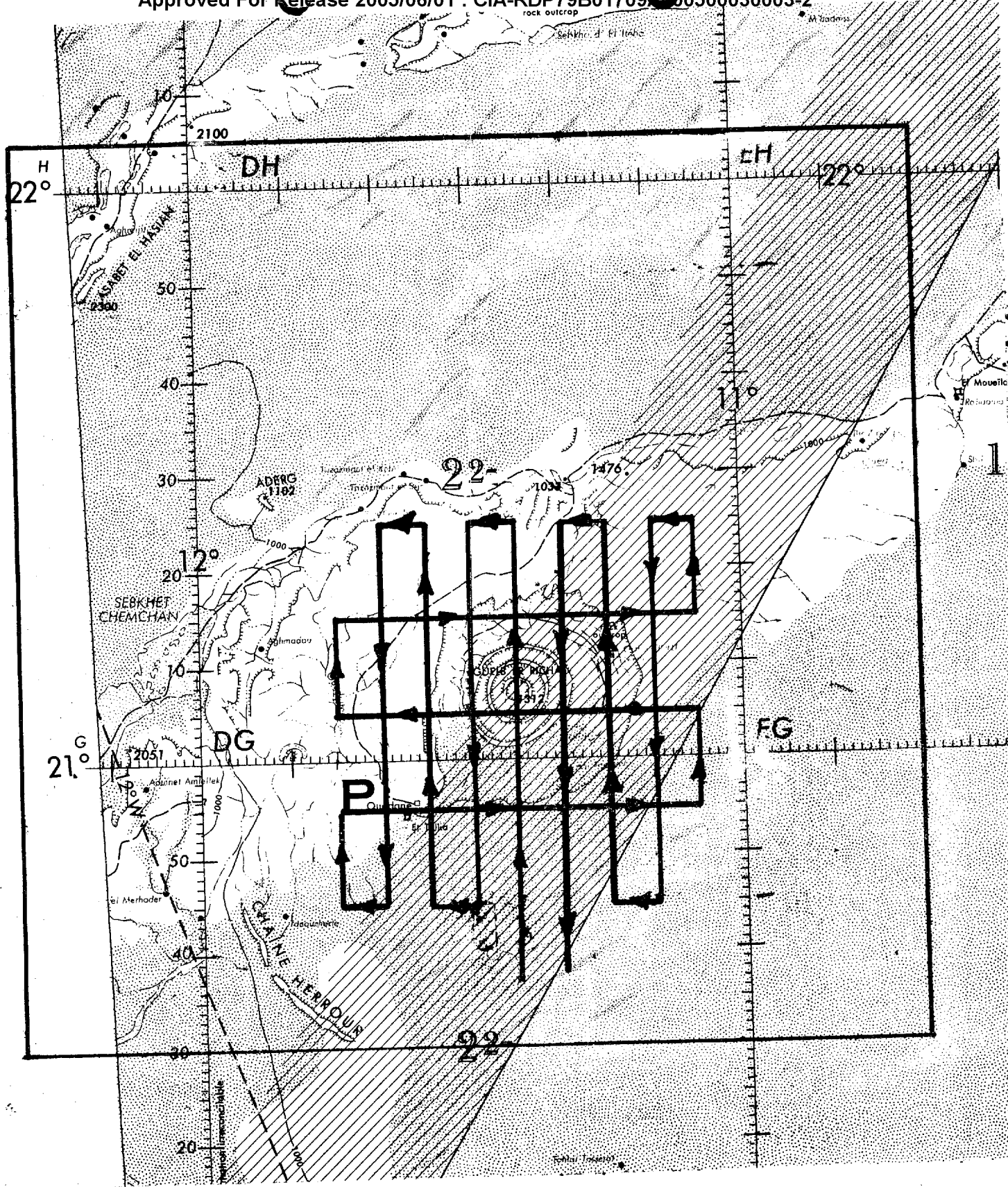
All crew members are United States citizens and hold U. S. Official Passports with required visas. Innoculations have been completed in accordance with the USAF Foreign Clearance Guide.



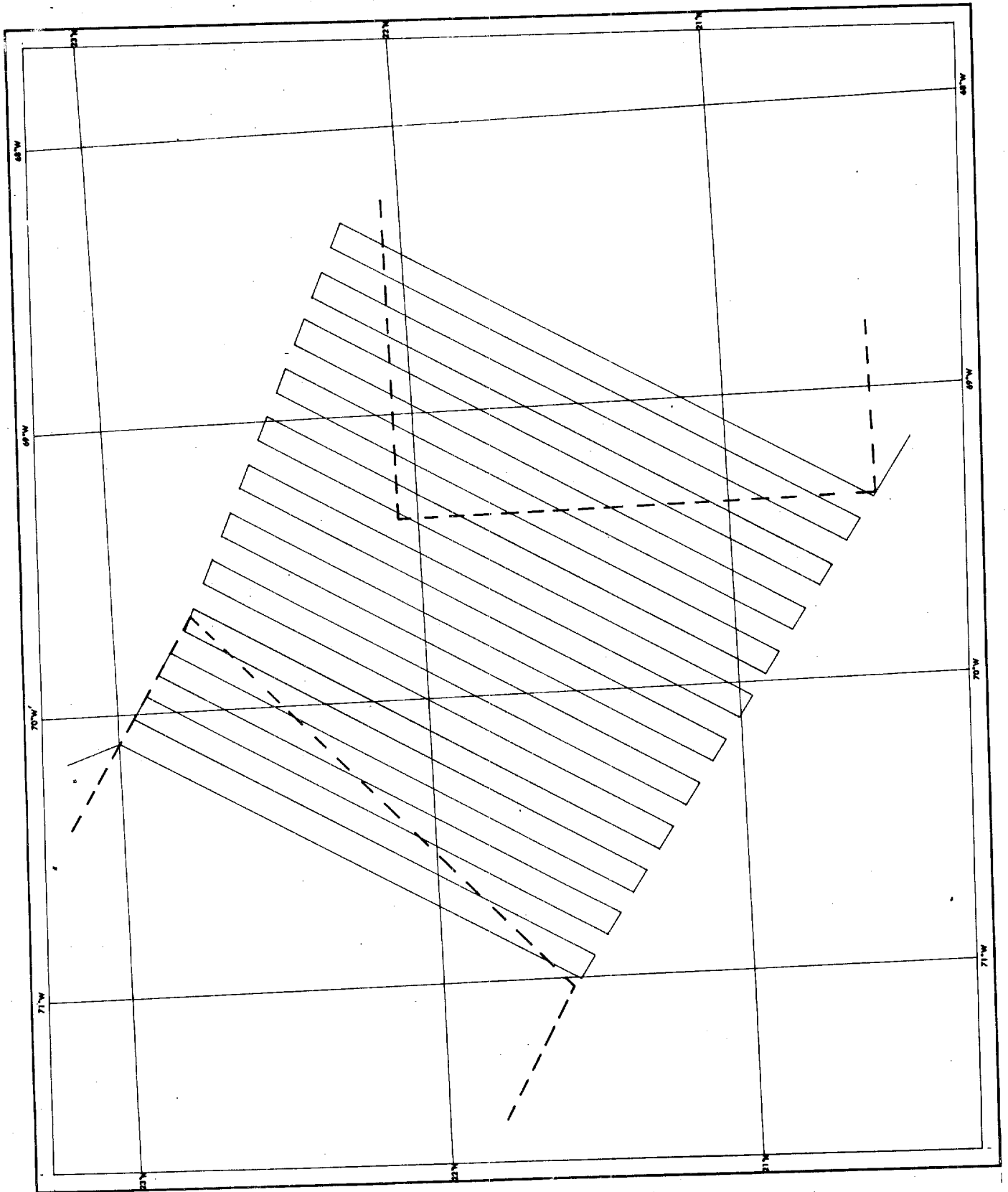
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Proposed Survey: Bosuntwi Crater, Flight Altitude 3,000 ft.



Proposed Survey: Richat Structure, Flight Altitude 3,000 ft.



Proposed Holiday Area Survey: Flight Altitude 600 ft.

U. S. NAVAL OCEANOGRAPHIC OFFICE
PROJECT MAGNET
General Background Information

1. Description and Purpose of Project MAGNET - Project MAGNET, a continuing project of the U. S. Naval Oceanographic Office, was established to collect accurate and current world-wide magnetic data. The data collected by Project MAGNET are required for charting purposes, advanced navigation systems, space programs, and other scientific programs of the United States. Survey operations are carried out by transport type aircraft, an NC-54R Skymaster and an NC-121K Super-Constellation, instrumented for this purpose.
2. Geomagnetic Measurements - Data collected during the survey flights are raw data. These data are reduced to values of magnetic variation, magnetic inclination or dip, and horizontal, vertical and total intensity of the earth's magnetic field. The Oceanographic Office is attempting to use the AN/SRN-9 Shipboard Navigation System as an airborne Navigation Satellite receiver for post flight positioning of the MAGNET track. The lengthy data computation processes are carried out at the Oceanographic Office.
3. Use of Magnetic Data - The results of the survey are combined with information from ground magnetic observations and other magnetic survey programs and used to produce a series of world magnetic charts. The U. S. Naval Oceanographic Office desires to cooperate fully with foreign governments in exchanging geomagnetic data. Foreign technical officials are invited to correspond directly with the Commander, U. S. Naval Oceanographic Office, Washington, D. C. 20390.
4. Cosmic Ray Measurements - A cosmic ray detection system is carried aboard the NC-121K aircraft for studying the interrelationship of cosmic rays and the earth's magnetic field. The Bartol Research Foundation in Swarthmore, Pennsylvania processes and analyzes the data and publishes the results.
5. Gravity-Geodesy Measurements - At all places on the itinerary for which appropriate clearances are obtained, land gravity measurements made with a portable gravimeter, and position observations for evaluation of the AN/SRN-9 Navigation Satellite receiver will be made. The assistance of local gravimetrists in the conduct of these measurements will be solicited by separate correspondence. This work is part of an international effort in cooperation with Study Group No. 5, International Gravity Commission, International Association of Geodesy. Results will be made available to the international scientific community in published form.
6. Flight Operations - All flights are conducted in accordance with approved International Civil Aviation Organization procedures. Flight operations will conform with established airways structure and reporting points in all cases where practicable. Any deviation will be cleared with appropriate aviation controlling authorities.

Code 8210-j1

7. Requests for Overflight Clearances - The primary aim of Project MAGNET is the acquisition of data over international waters. However, it is necessary to transit land area to proceed from one ocean area to another and it is desirable to accumulate data on these flights to supplement that provided by magnetic observatories and ground surveys. The Oceanographic Office will provide to any country that grants an overflight clearance copies of all reduced magnetic data collected over that country.

8. Liaison with Foreign Technical Personnel - Concurrent with requests for clearances the Oceanographic Office wishes to extend an invitation to interested foreign government officials, scientists and members of the press to visit the aircraft and inspect its equipment and discuss the project with Oceanographic Office personnel. It is desired that visits to the aircraft be handled informally through the U. S. Military Attache and that firm arrangements with the U. S. Military Attache await arrival of the plane in the country concerned. Within limitations of space available aboard the aircraft, foreign technical personnel are welcome to travel as observers on a survey flight in accordance with paragraph 6.a., OPNAV INSTR 4630.22. It must be noted, however, that most flights proceed from one country to another and that return travel arrangements must be the observer's responsibility. Personnel entrance requirements must be complied with as set forth in the U. S. Air Force Foreign Clearance Guide before third nation nationals can be flown into a foreign country. When there is sufficient technical interest and time, short local demonstration flights may be arranged.

9. Use of Above Information - Any information contained herein may be used as deemed appropriate in negotiating clearances for Project MAGNET operations including the brochures attached thereto. Additional copies of the brochure will be carried on the survey aircraft.

U. S. NAVAL OCEANOGRAPHIC OFFICE
WASHINGTON, D. C. 20390

AIRBORNE GEOMAGNETIC SURVEY

PROJECT MAGNET
PRESS RELEASE

The United States Naval Oceanographic Office is conducting an airborne geomagnetic survey of ocean areas. The purpose of this program, known as Project MAGNET, is to acquire more accurate and adequate data for the improvement of navigational and world isomagnetic charts. The current flight operations are being conducted as part of the overall survey of the world's ocean areas.

The survey aircraft, a modified U. S. Navy transport plane, is equipped with a vector airborne magnetometer and special navigation equipment. The airborne magnetometer measures the intensity and direction of the earth's magnetic field, thereby providing information for charting all elements of the field.

The airborne geomagnetic survey data are utilized in the construction of nautical, aeronautical, and world isomagnetic charts published by the United States Government, thus providing improved knowledge of the earth's magnetic field over the ocean areas and more reliable navigational data for ships and aircraft of all nations.