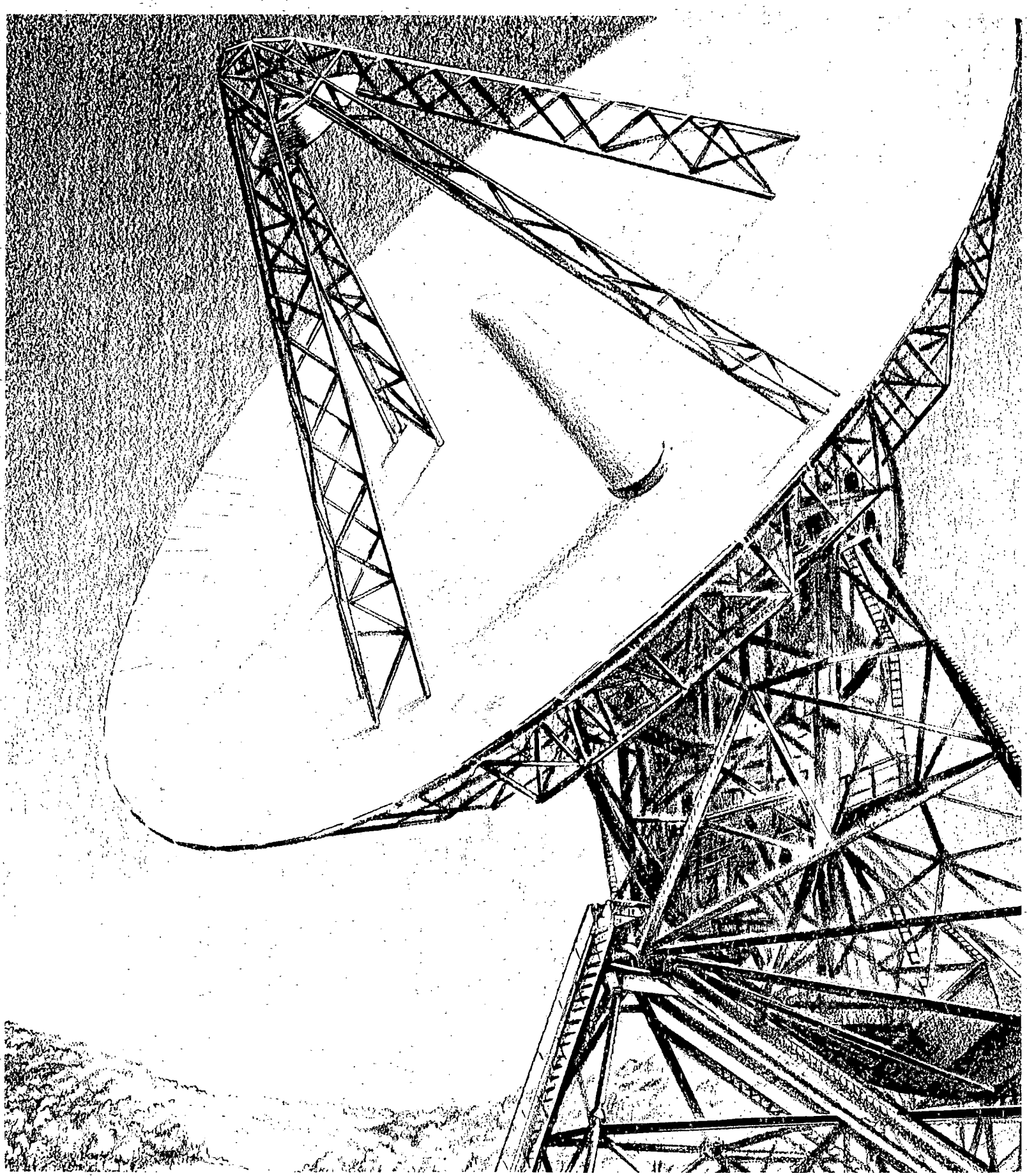
- THE DISH -



Edited and published by :

Thomas Stopka
1041 N. Harding Ave.
Chicago, Illinois 60651

And

Kenneth Bieda
4609 S. Keeler Ave.
Chicago, Illinois 60632

* * * *

APOLLO 11 TRACKING STATION COVERS REPORTED AS RECEIVED.

All Station numbers refer to Bob Ekas list of addresses. I do not know if all the stations returning covers did actually take part in this flight..

APOLLO 11 "July 16 - 24 1969"

#	STATION	CANCEL	DATE
1	Goldstone	Barstow,CA	16
1a	Mojave	Barstow,CA	16
2	Joburg	Kenmare	16-21
3	MSFN	Madrid	16
3a	DSS-61	Madrid	16
4	Orroral	Tharwa	16
4a	Honeysuckle	Canberra	(Aug 1)
5	Carnarvon	Carnarvon	16
6	DSS-62	Canberra	16
7	Madagascar	Tananarive	16
8	Toowoomba	Toowoomba	22
9	Gr. Bahamas	Freeport	16
10	Bermuda	St. George	16
10a	Bermuda	APO 09856	16
11	Gr. Canary	Las Palmas	16
12	Guam	Agana,GU	17
13	645 Radar	Patrick AFB,FL	16
14	MSFN	Waimea,HI	16
15	Mexico	Guaymas	16
16	Texas	Corpus Christi,TX	16
17	Alaska	Fairbanks,AK	16
18	Canada	St.John's,NFLD	16
19	Palomar Observ.	Pasadena,CA	16
20	Nevada	Jackass Flats,NV	16
21	N. Carolina	Rosman, NC	16
22	Florida	Ft. Myers,FL	16
23	Ecuador	Quito	16
24	Peru	Lima	16
25	Chile	Santiago	20
26	England	Darlington	21
27	Virginia	Wallops Island,VA	16
28	SAO/Arizona	Amado,AZ	16
29	SAO/Peru	Arequipa	16
30	SAO/Argentina	C. Rivadavia	16
31	SAO/S. Africa	Olifantefontein	16
32	Jodrell Bank	Macclesfield	16
33	SAO/India	Camp P.O.	16
34	SAO/Japan	Mitaka	16
35	SAO/Hawaii	Kula,HI	16
36	SAO/Brazil	Cidade Alta	16
37	SAO/Canada	Medley	16
38	SAO/Greece	APO 09223	19
38a	SAO/Greece	(?)	16
39	DSS-41	Woomera	16
40	SAO/Ethiopia	APO 09319	22
40a	SAO/Ethiopia	Addis Ababa	21
41	SAO/Spain	17049 ER	17
41a	SAO/Spain	Cadiz	17
42	Manitoba	Ft. Churchill	24
43	New Mexico	W.S.M.R.,NM	16
44	Ascension	Ascension	16
44a	Ascension	Ascension	16
45	552nd	Orlando,FL	16
46	Tyndall	Panama City,FL	16
47	Lompoc	Vandenberg AFB,CA	16
47a	Vandy Covers	Vandenberg AFB,CA	16
47b	Vandenberg	Vandenberg AFB,CA	16
48	El Salvador	(none reported)	
49	Seychelles	(none reported)	
50	Kennedy S.C.	K.S.C.,FL	16
51	Turkey	APO 09294	17
51a	Turkey	Diyarbakir	17
52	Goddard	Greenbelt,MD	16
53	MSC/Houston	Houston,TX	16
53a	PAO/Houston	Houston,TX	16
54	SAO/New Mexico	Las Cruces,NM	18
55	Turk Is.	Grand Turk	16
56	Australia	Canberra	18
57	California	Edwards,CA	16
58	France	Pleumeur-Bodou	16
59	E.S.S.A.	Boulder,CO	16
60	Antigua	St. John's	16
61	NORAD	Colorado Springs	16
61a	NORAD Covers	Colorado Springs	16-24
63	Morehead	Chapel Hill,NC	16
64	Canal Zone	Albrook AFB,CZ	16
65	TF-140	NAS Norfolk,VA	24
66	Italy	Avezzano	16
67	Hawaii/Comsat	Haleiwa,HI	17
68	Maine/Comsat	Andover,ME	16
69	Washington/Comsat	Brewster,WA	16
70	Australia	Moree	17
71	Etam/Comsat	Rowlesburg,WV	16
72	New Jersey	Nutley,NJ	16
73	England	London	16
74	Germany	Raisting	16
75	Germany	Berlin	21
76	A.R.R.C.	APO 09012	16
76a	A.R.R.C.	Landstuhl	16
77	Eglin	Eglin AFB,FL	16
78	Eglin	Eglin AFB,FL	16
86	Canada	Richmond Hill	16
87	SAO HQ	Boston, MA	17
88	NASA EL.Research	Boston,MA	16
96	Germany	Bochum	16

There are many new Stations Plus NEW numbers listed on another page/pages in this publication. We hope that many of you will enjoy this issue of the "DISH".....

APOLLO 11 RECOVERY SHIPS

ATLANTIC RECOVERY FORCE - TASK FORCE 140

USS NEW DD-818	July 24, 1969:	Beck's Printed / Coordinator's Cachet
USS OZARK MCS-2	July 24, 1969:	Beck's Printed / Coordinator's Cachet
USS SALINAN ATF-161	July 16, 1969:	Ship's return address on covers pmk. Jacksonville,FL

PACIFIC RECOVERY FORCE - TASK FORCE 130

USS HORNET CVS-12*	July 24, 1969:	Beck's Printed / Coordinator's Cachet
USS GOLDSBOROUGH DDG-20	July 24, 1969:	Beck's Printed / Coordinator's Cachet
USS ARLINGTON AGMR-2	July 24, 1969:	/ Coordinator's Cachet

* covers came back from the USS Hornet CVS-12, with two types of rubber-stamp cachets plus the use of a Machine and Hand cancel on the covers received or reported..

TRACKING SHIPS

USNS HUNTSVILLE T-AGM-7	July 20, 1969 - Honolulu,HI
USNS VANGUARD T-AGM-19	July 24, 1969 - Cape Canaveral,FL
USNS REDSTONE T-AGM-20	August 5, 1969 - Honolulu,HI
USNS MERCURY T-AGM-21	July 21, 1969 - Honolulu,HI

Some of the Tracking Ships wented out on the cachets.. Many have received covers from other Tracking Ships that did not take part in the APOLLO 11 flight..

If any person has any addition to the Recovery Force, Please send the information to Tom Stopka, 1041 North Harding Avenue, Chicago, IL 60651..

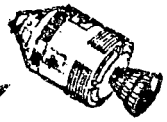
* * * *

APOLLO -11-

AS 506

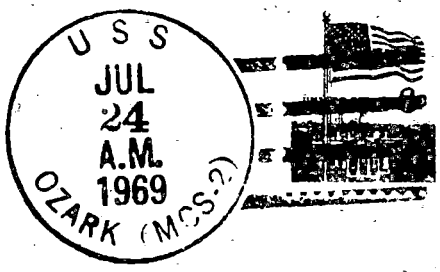
MANNED LUNAR LANDING

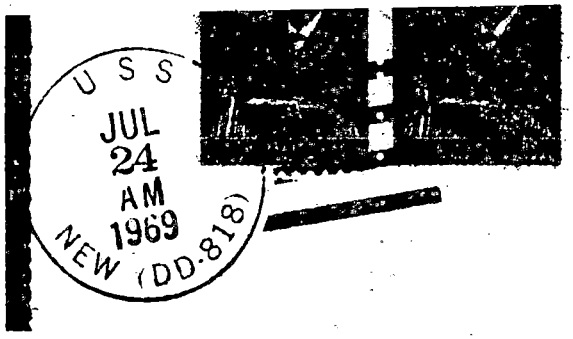




U. S. NAVY RECOVERY FORCE

Atlantic





APOLLO -11-

AS 506

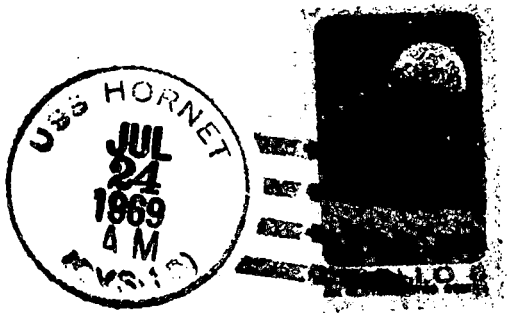
MANNED LUNAR LANDING





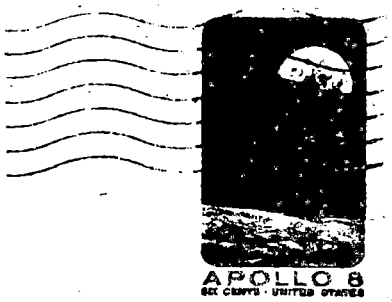
U. S. NAVY RECOVERY FORCE

Pacific



Apollo 11 Prime Recovery Vessel
USS HORNET (CVS12)
FPO, San Francisco 96601





APOLLO -11-

AS 506

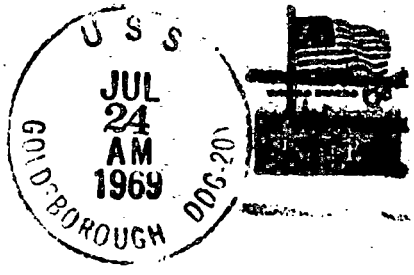
MANNED LUNAR LANDING





U. S. NAVY RECOVERY FORCE

PACIFIC

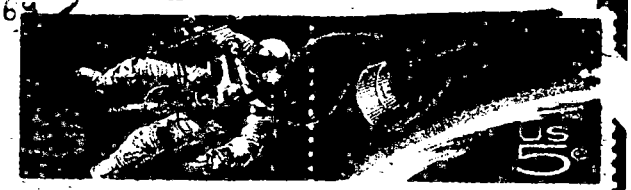


V. C. Rathune.
Chief Engineer.
USNS HUNTSVILLE, (T-AGM 7)
FPO, SAN FRANCISCO, 96601



HONOLULU, HAWAII
JUL 20
-PM
1969

TERMINAL NAVY STA.



USNS REDSTONE (T-AGM 20)
Military Sea Transportation
Service, Dept. of the Navy

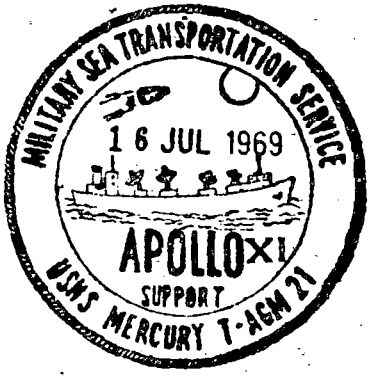
support of
APOLLO 11

HONOLULU, HAWAII
-PM
5 AUG
1969



USNS MERCURY (T-AGM21)
C/O FLEET POST OFFICE
SAN FRANCISCO - 96601

U.S.A. MAN ON MOON
21 JUL 1969

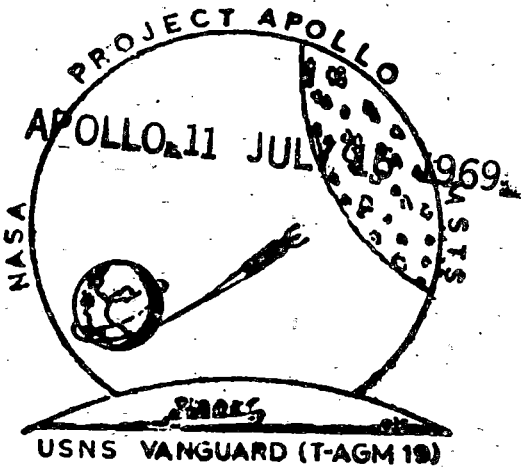


USNS VANGUARD (T-AGM-19)
FLEET POST OFFICE, N. Y. 09501

CAPE CANAVERAL, FL.
JUL 24
PM
1969
32920



RECOVERY CONTROL CENTER, ATLANTIC



NEWS & INFORMATION

#45 McCoy AFB did not take part in Apollo-11.....

This from a Florida newspaper..."First Lt. Jim Keith, personnel officer at McCoy Air Force Base, Orlando, has been getting a lot of mail lately from stamp collectors who must think the 966th airborne Early Warning and Control Squadron will take part in Apollo-11 mission. He has been getting mail requesting him to mail covers on day of launch. Actually the Squadron will have no part in the Moon mission shot."

"When the first few requests began to trickle in, we thought it aws wild, but now we realize,since wev'e deluged with requests, that this kind of thing must be standard practice among stamp collectors."

"The whole thing started in March, Lt. Keith believes, when a national T. V. network broadcast a story about the 966th in recovering the Apollo-9 space capsule. From thier EC-121 reconnaissance plane over the Atlantic Ocean, the 966th crew members were the first to make radar contact with the capsule after it re-entered the earth's atmosphere. When they picked it up they relayed its position to the recovery forces."

"Unfortunately for collectors, the Apollo-11 will be recovered in the Pacific. The 966th is involved only in Atlantic recoveries."

* *

During the flight of Apollo-11 the NBC network carried an interview with Hinze Kaminski, the director of #96 Bochum Observatory, West Germany.

Also televised was an interview with Sir Bernard Lovell of the Jodrell Bank Obervatory. In the background could be seen the two dish antenna's. The large one tracked the Russian Luna-15, while the smaller one tracked Apollo-11.

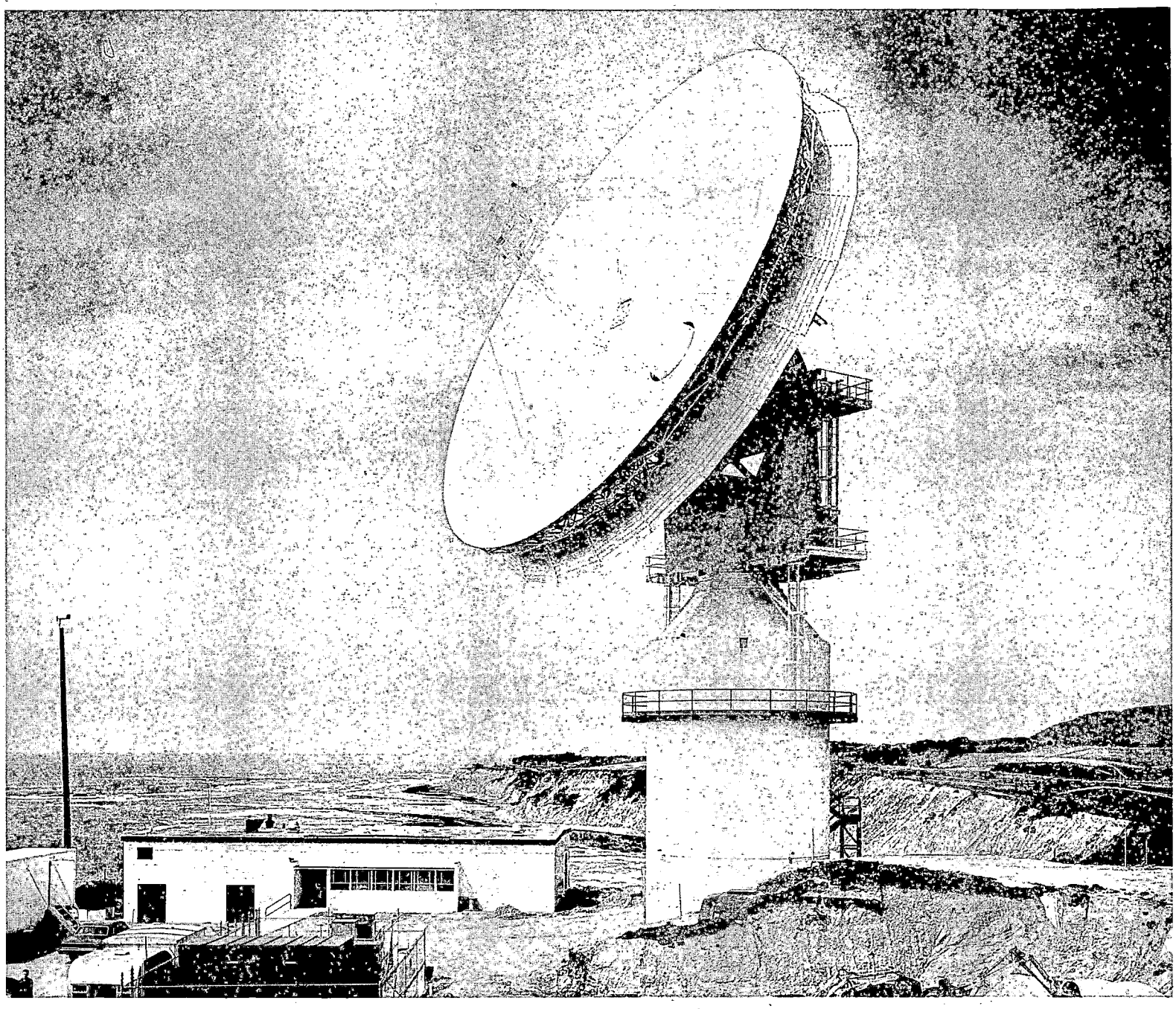
The Smithsonian Astrophysical Observatory wrote one collector, "Thank yu for your interest in the S. A. O. and its tracking program. However, the tracking network is not directly involved in the Apollo program. Our concern is primarily with passive earth-orbiting satellites, and the tracking data used for geophysical studies." Although this is true, it is my understanding, NASA will at times request the S. A. O. to photograph a particular spacecraft, such as Apollo, because the S. A. O. network produces highly reliable photos from as far away as the Moon.

NEW STATION LIST

Bob Ekas = Box 146 - Chicora, Pa. 16025. At this time I am working on a new list which will list MSFN, STADAN, DSN, SAO and etc. stations in one group. The stations will all be renumbered and every six months or a year a supplement will come out with the addittions and corrections. All of those having received the last list with a sticker on #19 station address may send a large stamped addressed envelope (12¢ postage) and the new list will be sent free. Those not receiving that list may send 10¢ in stamps or coin and a stamped (12¢) envelope. All envelopes will be held until this is completed.

* * * * * * * * *

Always try to use three words when sending requests to the stations, please, appreciate and thank you.



(Philco-Ford Corporation photo)

This giant 80-foot-diameter tracking telemetry antenna will increase the effectiveness of its Western Test Range in gathering vital data on ballistic missiles.

The system has four times the area of any antenna on the Air Force test range.

Located at the northernmost tracking site of the test range at Pillar Point Air Force Station near Half Moon Bay, about 15 miles south of San Francisco, it is being used to track the intercontinental ballistic missiles launched from Vandenberg Air Force Base, and can also be used to track orbiting vehicles for satellite support work. It went into operation in January, 1969.

In tracking ballistic missiles the dish shaped antenna can turn at velocities of 10 degrees per second.

The system greatly improves the range's ability to collect, record, and process missile performance data.

NOTES ON APOLLO-11 COVERS

#1 Barstow-Covers from #1 and #1a as usual. Also got coversfrom #1b and #1c. These I found about by reading the "Welcome to Goldstone# circular. Also I received a #10 size cover with Barstow slogan meter illustrated elsewhere.

#3 Spain-Used a rubber stamp Apollo-11 cachet picturing "Snoopy" on the Moon.

#3a Spain-New cachet, also noted new address, DSS-61 Tracking Station, Robledo de Chavela, Apartado 50719, Madrid, Spain.

#4a Honeysuckle-Usual cachet with "Man on the moon - 0256:20 G.M.T. JUL 21, 1969"

#8 Toowoomba-Station is portable and is now closed. NASA plans to move it to a new location. No news as to where.

#9 Bahamas-Joe Frasketi sponsored a special "Moon Landing" cover with a local cancel as part of the cachet.

#9a Bahamas-Two different covers, one has rubber stamp return address, round Apollo cachet and station directors autograph. The other cover has hand written return address "Maj. Sanborn-Box 4187 - Patrick AFB, Fla."

#11 Canary Islands-New cachet, see illustration.

#12 Guam-Word cachet, "Initial contact, Apollo-11, 10 19 AM 17 JUL 69".

#23 Ecuador-Usual markings & 6 autographs.

#24 Peru- Very few good cancels reported.

#26 Winkfield-Two covers, one sponsored at Darlington, the other has Autograph and "Winkfield Station" rubber stamp.

#30 Argentina-Poor cancels, as usual.

#34 Japan-New address on cover, "The Libary, Tokyo Astro. Observ., (Tokyo Tenmondai-tosho-shits), Mitaka, Tokyo, Japan".

#35 Hawaii-Two autographs on cover, William Ononsen & David Marsh.

#38 Greece-A.P.O. cancel is too light.

#39 Woomera-Used a new Dish cachet "DSS-41 Island Lagoon Station".

#39a Woomera-Cover has "Baker-Nunn" rubber stamp. (see illustration)

#40 Ethiopia-Used "First Man ON The Moon" word cachet. (see illustration)

****

NOTE: Photo on the preceeding page is re-printed from "Space World", a publication of Palmer Publications, Amearst, Wisconsin.

MORE NOTES

#42 Ft. Churchill-Slogan meter, but too light.

#45 McCoy AFB-Did not take part. See news elsewhere.

#47 Lompoc-New cachet, see illustration.

#59 Boulder-Very nice cachet showing Sun & Earth with solar flare, solar wind, high energy protons. low energy protons, X-ray and radio waves, aurora, VanAllen belt, magento pause, ionosphere and communication.

#64 Canal Zone-Cover has six autographs.

#65 Norfolk-Cover has circular "TF-140" cachet.

#67 Hawaii-Picture postcard of station enclosed in cover. Great!

#68 Andover-Also enclosed picture postcard.

#73 England-Station has new manager, Mr. P.H. French.

#79, 81, 82, 83, 84, 85 All have rubber stamp return address only on covers.

#87 SAO-nothing on cover but cancel.

#89 Fla.-Typed return address on cover only.

#90 Merritt Is.-I believe covers were mailed from KSC with no return address applied, although I did get a cover with a return address as listed for a past Apollo flight.

#91 Hawaii-Typed return address with auto. of J. W. McDowell.

#92 Maricopa-Rubber stamp return address only.

#93 Buckland Park-square cachet with words, see illustration.

#94 Parkes-Circular cachet. see illustration.

#96 Bochum-German words "Die Ersten Menschen Landen Auf Den Mond", mean "The First Human Beings Land On The Moon"

#99 Sydney-Oval cachet. see illustration.

#111, 112, & 117 - Typed return address on cover only.

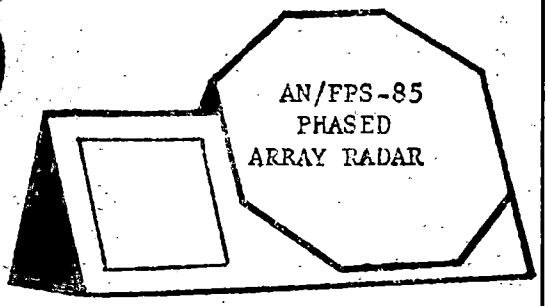
+ + + +

DSS 61 TRACKING STATION
Robledo de CHAVELA
APARTADO 50719
MADRID, Spain

SITE C-6
20TH SURVEILLANCE SQ (ADC)
EGLIN AFB, FLORIDA
Space Tracking Station

OVERSEAS TELECOMMUNICATIONS TERMINAL
JUL 21 1969
FADDINGTON

NEW



APOLLO

NASA

APOLLO XI

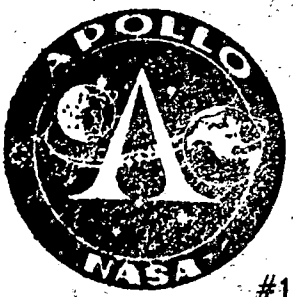
#3a

WORLDS LARGEST IONOSCOPE
AERIAL ARRAY
BUCKLAND PARK, S.A.
MEASURING WIND SPEEDS
IN SPACE ENABLES
MORE ACCURATE PREDICTION
OF SATELLITE ORBITS.

NEW

APOLLO 11

#77

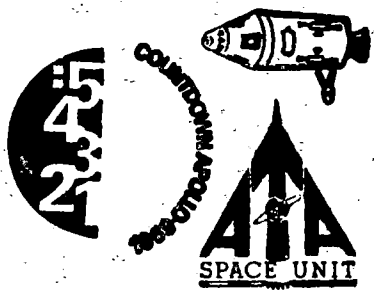


#12

東京
44.7.18
天文台

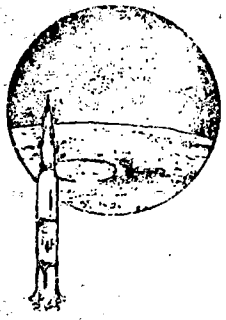
#34

ETR
GRAND BAHAMA
TRACKING STATION



APOLLO 11
FIRST MANNED
LUNAR LANDING

#9



APOLLO 11
FIRST LUNAR LANDING MISSION
C. A. ROUILLER, Jr.
NASA SITE DIRECTOR
CYI-GRAND CANARY

#11

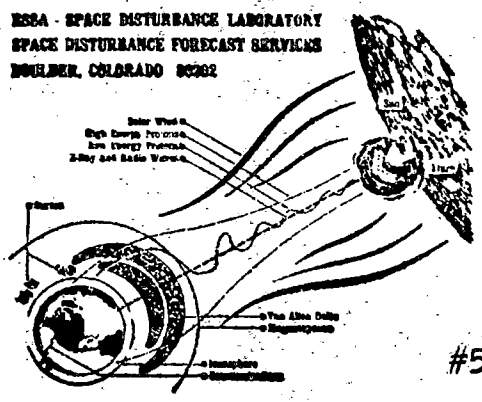
C.S.I.R.O.
A.N.R.A.O. PARKES

PARKES
4 PM
21 JLY
1969
N.S.W. AUST.

A.N.R.A.O. BOX 276 PARKES, N.S.W.

NEW

ESSA - SPACE DISTURBANCE LABORATORY
SPACE DISTURBANCE FORECAST SERVICES
BOULDER, COLORADO 80302



#59



GOLDSTONE
SPACE COMMUNICATIONS
STATION
NASA/JPL
DEEP SPACE
INSTRUMENTATION FACILITY
Earth's Link With Deep Space

#1

BARSTOW
JUL 17'69
CALIF.
U.S.POSTAGE
.06
PB METER 579858

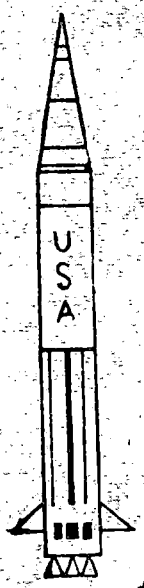


SPACE WATCHERS!

HOUSTON
JUL 16'69
TEX.
U.S. POSTAGE
0.06
RB METER 1004005

WINKFIELD FIELD STATION
16 JUL 1969
No.
#26

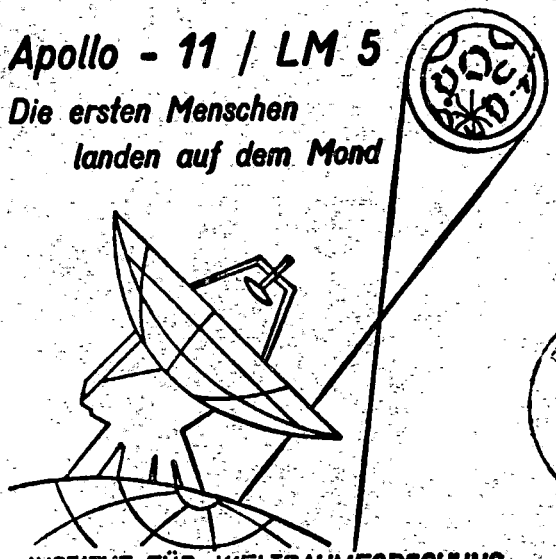
CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS
STATION SPATIALE de PLEUMEUR-BODOU
P.T.T.
#58



#64

APOLLO 11
NASA-MAD-MSFN
MADRID, SPAIN
·ARMSTRONG·
·COLLINS · ALDRIN·
#3

Apollo - 11 / LM 5
Die ersten Menschen landen auf dem Mond



INSTITUT FÜR WELTRAUMFORSCHUNG
DER STADT BOCHUM
#96

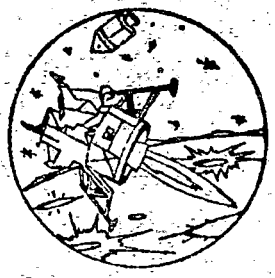
BOCHUM 1
00
16.-7.69-20
463



#50

NASA
BERMUDA STATION
ON THE OCCASION OF
NASA
APOLLO FLIGHT
AS 506 -- APOLLO 11
16 JULY 1969
Station Director

FOURTEENTH AEROSPACE FORCE



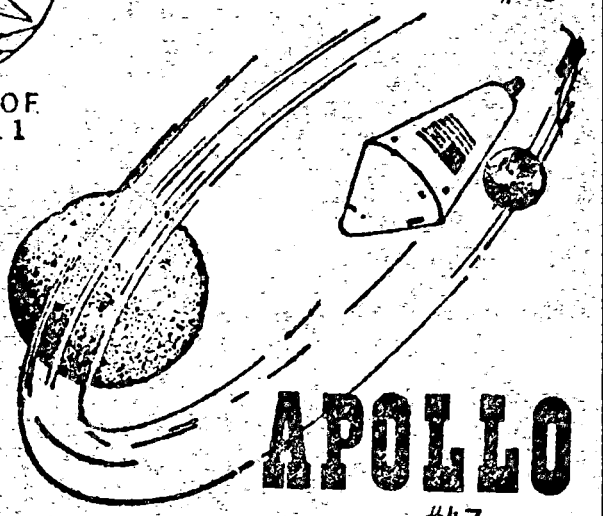
SUPPORT OF APOLLO 11

NEW

U.S. APOLLO-11
FIRST MAN ON THE MOON
#40

WEAPONS RESEARCH ESTABLISHMENT
WOOMERA
#39

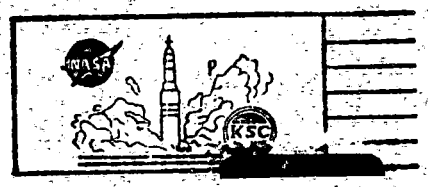
#10



APOLLO
#47

BAKER-NUNN #39

KENNEDY SPACE CENTER
JUL 20
PM
1969
FL



KENNEDY SPACE CENTER
JUL 16
AM
1969
FL
#50

COMSAT
COMMUNICATIONS SATELLITE CORPORATION
ANDOVER, MAINE 04216
#68

ANDOVER, ME.
JUL
16
1969
04216

South Hamilton, Maine - Sagamore Hill Radio Observatory.

The following was gleaned from a newspaper article sent in by Rev. Alan D. Smith. "When the Apollo-11 spacecraft blasts off from Cape Kennedy, an 18 man team, (10 Air force men & 8 civilians scientists) will be monitoring the sun to safeguard the three astronauts on thier moon mission. If there is an energetic flare from the sun, then the astronauts , if thier are space walking, will be in great danger."

"The Sagamore Hill Solar Radio Observatory, 35 miles north of Boston, is part of the Air Force's Solar Forecasting Network (SOFNET). It is the only facility of it's kind in the Western Hemisphere and is financially supported by the Laboratories' Directors' Fund of the Air Force Cambridge Research Laboratory."

"Another hazard of solar flares is communications blackout. In the Apollo-9 mission communications aboard the spacecraft were knocked out by flares for an hour and a half."

"Five parabolic antennas or "dishs" here, provide a complete picture of solar radio emissions & erruptions. All data received here from the sun is relayed to the Air Weather Service Solar Forecast Center, Cheynne Mountain, Colorado."

* * * *

COVER SERVICE AVAILABLE

Betty Peters - 2542 E. 78th St. - Chicago, Ill. 60649, has started a new service for space cover collectors. Basicly she will handle all your needs to the many cover sponsors i.e., stamps, envelopes, service fees, etc. Average cost is about 25¢ each. Send betty a stamped, self-addressed, #10 envelope for full details.

Rand Stamps - P. O. Box 413 - Roodepoort, South Africa, will service covers for the #2 Johannesburg Deep Space Station - 51 at 25¢ each. Covers are printed on size 6 X 3 1/2 envelopes. Do not send covers. Covers are posted at Johannesburg on local launch time.

Bay Stamps - Box 90 - Glenelg, Australia 5045, Australian NASA tracking stations directly addressed to you (about 17 Diff.) for 38¢ each. Address labels appreciated. Bank notes preferred. (ED"s note; I sent to them for Apollo-11 and received most of the Aust. stations thus far. Due to my sending in late I may not get all. They use a cheap, light weight, air mail envelope but I was glad to get some of the new station covers, Parkes, Sydney, Toowoomba and Buckland Park.)

+ +

NEWS

As of June 14, 1969 an all Spanish crew now operates #3 Madrid. On June 25 an agreement was reached between the two governments that extended the tracking agreement for ten more years.

A new 210 foot space communications antenna is to be erected at Canberra and Spain. These will give six times the performanceof the 85-foot dishes now in operation.

It was reported that over 200 observatories were to be watching the Apollo-11 space craft. Covers anyone ? ? ? ? ?

Joe Frasketi at #9 Bahamas station reported that he serviced over 700 covers! I'm sure I can say THANKS to Joe from all of us.

In an older newspaper article it states NASA has six intermediate communications switching centers throughout the world. In going over the address list I come up with four such centers, #56, #70, #73, and #91.

Before the launch of Apollo-11 station #4a had a fire which knocked out one of its antenna's. It was expected to be back in service before the Lunar landing phase of the mission when both its antenna's will be required to track both Columbia & Eagle.

The Parkes, Australia 210 foot radio telescope, of the Australian National Radio Astronomy Observatory, was the station that picked up the signal for the T. V. pictures from the surface of the Moon. From there they were shot over to the Overseas Telecommunication Terminal at Sidney, where it was transferred to a satellite hovering over the Pacific. The satellite will relay the signal to the National Aero. & Space Admin's mission control center in Houston. In a split second the signal was fed to T. V. networks for home viewing.

NEW ADDRESSES REPORTED

Among the many letters I have received the following addresses have been reported. As it is noted elsewhere in this newsletter Bob Ekas is working on a new listing of stations. Therefore the numbers given these addresses are TEMPORARY. They all will most likly have different numbers. We will probably only use these #'s for this flight of Apollo-11 and if Bob's new list is not ready, fro Apollo-12.

As I said these addresses were reported, I do not know if they Take part in manned flights or if they will service your covers. I expect those of you who do get some information on them to let us know.

#1b Mars tracking station
DSS-14
P. O. Box 997
Barstow, Calif. 92311

#1c Station Director
DSS-11 Pioneer Station
P. O. Box 997
Barstow, Calif. 92311

#1d Director
DSS- Echo Station
P. O. Box 997
Barstow, Calif. 92311

#1e Director
DSS- Venus Station
P. O. Box 997
Barstow, Calif. 92311

#9a NASA
Goddard Space Flight Center
Grand Bahama Island Tracking Sta.
P. O. Box 4187
Patrick AFB, Fla. 32925
or
NASA
GRAND Bahama Is. Tracking Sta.
P. O. Box 250
Freeport, Grand Bahama Is., Bahama

#26 Winkfield Minitrack Station
Pigeonhouse Lane
Winkfield, Berks, England

39a Baker-Nunn Station
Woomera, S. A., Australia 5720

#62 COMSAT
Jamesburg Earth Station
P. O. Box 436, Carmel Valley, CA 93924

#79 Space Flight Meterorology Group
ESSA Weather Bureau
Washington, D. C. 20233

#81 Communications Satellite Corp.
P. O. Box 1337
Cayey, P. R. 00633

#82 U. S. Naval Observatory
Flagstaff Station
Box 1149
Flagstaff, AZ 86001

#83 ESSA
Weather Bureau Forecast Office
Honolulu International Airport
P. O. Box 9428
Honolulu, Hawaii 96820

#84 Spaceflight Meterorology Group
John F. Kennedy Space Center
Nasa, Kennedy Space Center, Fla
32899
Attn: U. S. Weather Bureau MSOB

#85 Spaceflight Meteorology Group
U. S. Weather Bureau, ESSA
NASA Manned Spacecraft Ctr.
MOW Bldg. 30, Room 324
Houston, Texas 77058

#89 Spaceflight Meteorology Group
ESSA Weather Bureau
P. O. Box 8286 University Branch
Coral Gables, Fla. 33124

#90 NASA Merritt Island Tracking Sta.
P. O. Box 1947
Titusville, Fla. 32980

NEW ADDRESSES Cont'd

#91 Station Manager
NASA Switching Center
P. O. Box 2200
Honolulu, Hawaii 96805

#92 U. S. Naval Space Surveillance
Field Station
P. O. Box 316
Maricopa, AZ. 85239

#93 Ionoscope Aerial Array
Buckland Park, S. A.
Australia

#94 Australian National Radio Astronomy
Observatory - C. S. I. R. O.
Box 276
Parkes, N. S. W., Australia

#95 Observatory Simon Stevin
P. O. Box 37
Ovdenbosch, Holland

#96 Friedrich Witte
D 463 Bochum
Diekam Pstr . 33
West Germany

#97 Charles C. Gates Planitarium
Denver Museum of Natural History
City Park
Denver, Colorado 80206

#98 OTC (A) Satellite Earth Station
Carnarvon, W. A., Australia

#99 Overseas Telecommunications Terminal
Satellite Earth Station
Sydney, N. S. W., Australia

#100 Director of Information
Headquarters Fourteenth Aerospace
Force - Ent Air Force Base,
Colorado 80912

#110 Sacramento Peak Observatory
AF Cambridge Research Lab.
Sunspot, New Mexico 88349

#111 Operating Location #2
Detachment 7
Fourth Weather Wing (MAC)
Sagamore Hill Radio Observatory
South Hamilton, Mass. 01982

#112 USAF Palehua Solar Observatory
OL-3, 1 WEA WG
APO, SanFrancisco, Calif 96553

#113 SOFNET 4
OL-4, 2WEA WG(Air Weather
Service) National Observatory
of Athens, APO
New York, NY 09223

#114 Operating Location #5
Detachment 7
First Weather Wing
APO
San Francisco, Calif. 96258

#115 Operating Location #6
Detachment 7
Fourth Weather Wing
c/o Aerospace Solar Observatory
14031 San Fernando Road
Sylmar, Calif. 91342

#116 Operating Location #7
Detachment 7
Fourth Weather Wing
APO, New York, NY 09845

#117 Operating Location #10
Detachment 7
Fourth Weather Wing
Solar Forecast Center NCMC
Ent AFB, Colo. 80915

Utrecht National Observatory
Utrecht, Netherlands

Royal Observatory
Nathan Road
Hong Kong

Comsat Satellite Station
Nathan Road
Hong Kong

NEW ADDRESSES Cont'd

Joe Orell Col., USAF
4684 ABGP
APO, New York, NY 09121

NASA Plum Brook Station
Taylor Rd. & Columbus Ave.
Sandusky, Ohio 44870

McDonald Observatory
University of Texas
El Paso, Texas 79902

COMSAT Station
Singapore, Malaysia

Missile Test Project
RCA International Service Corp.
Box 11
Ramey AFB, P.R. 00604

Canadian Overseas Telecommunications
corp., P.O. Box 80
Mill Village, N.S., Canada

COMSAT Station
Sriracha, Thailand

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TRADE & SELL

First I will list here those collectors who have indicated in the past that they wish to here from collectors who want to buy or trade:

Harry Rose - 283 S. Aldine - Elgin, ILL. 60120
V. Eismont - P.O. Box 93 - Spring Valley, New York 10977
E. Embler - Dogwood Hills Rd. - Newburgh, New York 12550
A. Silhanek - P.O. Box 188 - Bound Brook, New Jersey 08805

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Gene C. Mallette - 708 W. 10th St. - Atlantic, Iowa 50022, would like to swap or buy the following: Apollo 3 ,Salamonie AO-26 (AS-202); Apollo 6, Carpenter DD-825; Apollo 7, Paiute ATF-159 & Ponchatoula AO-148 & Tucker DD-875 & Rupertus DD-851; Apollo 8, Rupertus DD-851

Otto Bergman - 1001 E. Rudsill Blvd. - Ft. Wayne, Ind. 46806, is interested in purchasing several covers from Mercury and Gemini flights.

Paul Dlug - P.O.Box 1803 - Brooklyn, N.Y. 11202, Will send a 2 page list of his duplicates for past flights for a stamped self-addressed #10 env.

S.A. Sanchez MD - 3101 El Camino - Temple, TX 76501, would like to buy the following Apollo-8 station covers; #1 - #3 - #68 - #71.

Charles Jarrett - P.O. Box 24 - Granite Quarry, N.C., has a list of covers for sale from Explorer #1 to Apollo 11. Cape Canaveral, Kennedy Space Ctr., Tracking Stations, Recovery Ships and a large selection of autographed space covers.

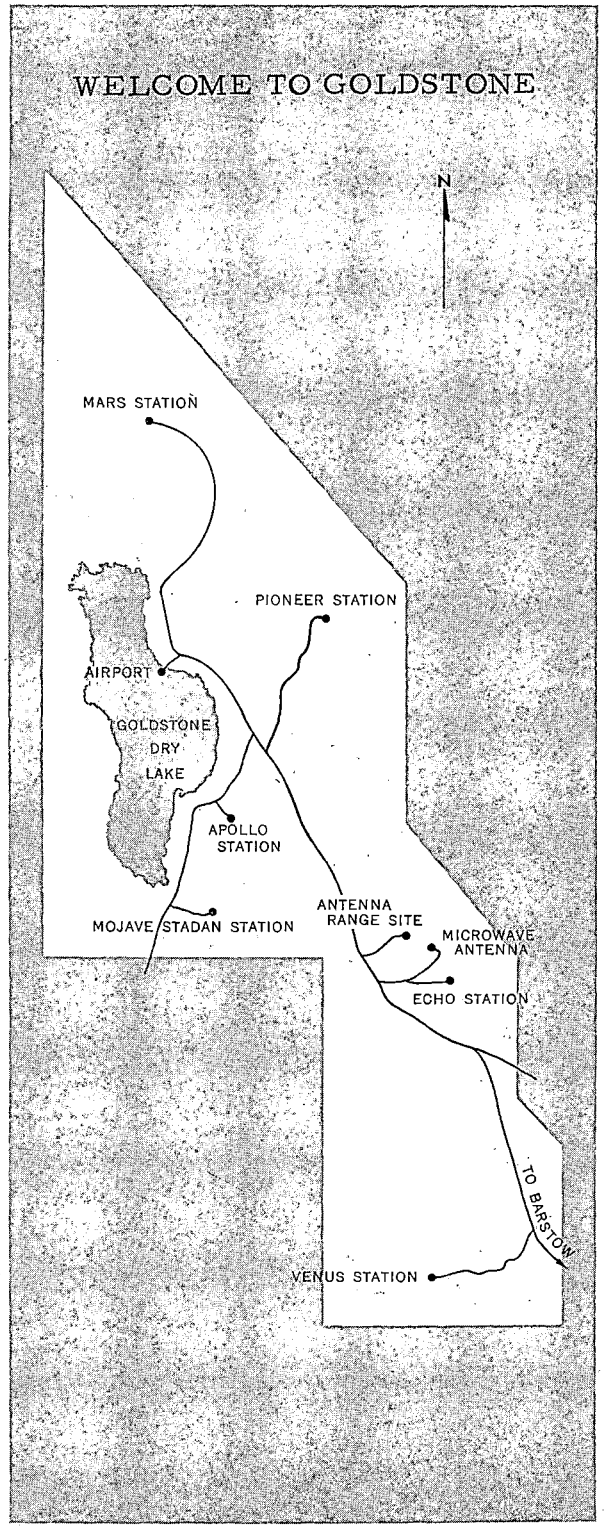
Bob Ekas - Box 146 - Chicora, Pa. 16025, wants to trade or buy the following
Apollo-7 station #25, 29, 40, &46
Apollo-8 " #1, 8, 9, 28, 33, 36
Apollo-9 " #24
Apollo-10 " #17, 25, 33, & 35 Have a supply of duplicates, please let me know what you need.

Hans Barnickel - P.O. Box 1066 - D-86 Bamberg 1, West Germany wants to exchange European space cancels for U.S. slogans and meters "space topic". Hans will also service tracking station covers for the following stations: #2, 3, 3a, 7, 11, 26, 32, 38 (Greek stamps), 49, 51 (Turkey stamps), 58, 66, 74, 75, 76, 76a (US stamps) and 96. service charge is 20¢ each in mint 6¢ Apollo 8 orother mint 6¢ commems and addressed labels for covers.

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The Aerospace Defense Command has added a new number to its books for the Apollo-11 spacecraft, #4,039. The agency, which catalogs manmade objects in space, says there are now 1,743 such objects in the wild blue outer. the other 2,296 have returned to earth or disintegrated in space.

* *



The Deep Space Network

The complex task of remote control of the spacecraft used in unmanned U.S. lunar and planetary exploration is performed by the Deep Space Network, or DSN, a facility of the National Aeronautics and Space Administration's Office of Tracking and Data Acquisition. The DSN, which has the distinction of being the only facility in the Free World especially designed to collect data from and control spacecraft traveling many millions of miles from Earth, is operated for NASA under the systems management and technical direction of the Jet Propulsion Laboratory. It is composed of three main elements: the Deep Space Instrumentation Facility (DSIF), with space communications and tracking stations encircling the globe; the Space Flight Operations Facility (SFOF) at JPL, the Pasadena command and control center; and a Ground Communication System that connects all parts of the DSN by telephone and teletype.

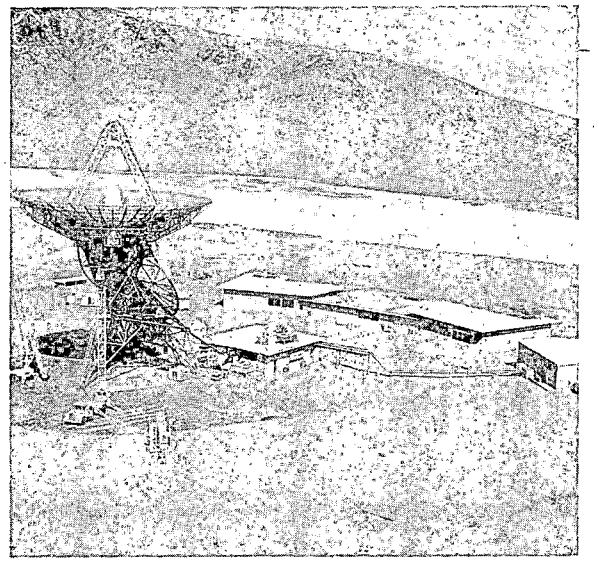
Stations of the DSIF are spaced approximately 120 degrees apart in longitude, so that the spacecraft is always within the field of view of at least one of the Network's tracking facilities. In addition to the four-station complex at Goldstone, there are DSIF stations at Cape Kennedy, Florida; Ascension Island in the South Atlantic Ocean; Woomera and Tidbinbilla (near Canberra), Australia; Johannesburg, South Africa; and Robledo and Cebreros (near Madrid), Spain.

The Manned Space Flight Network

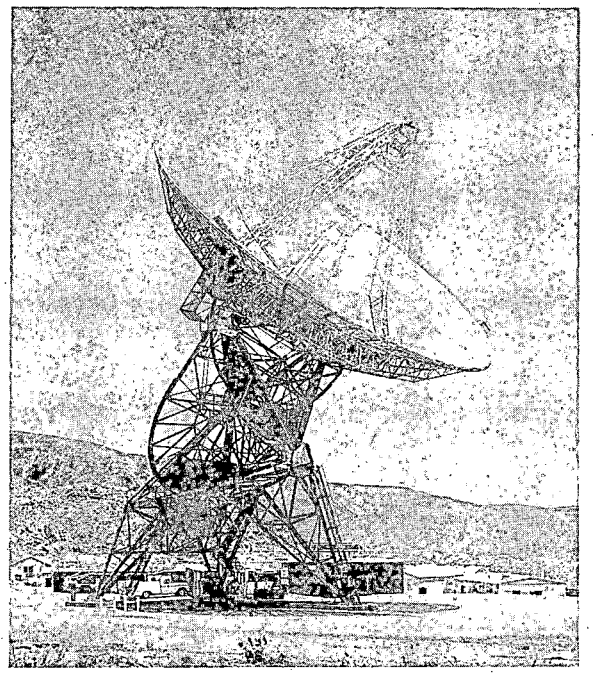
The world-wide Manned Space Flight Network (MSFN) is provided and operated by Goddard Space Flight Center (GSFC), Greenbelt, Maryland, for NASA's manned space flight program. In addition to the twenty land-based stations comprising the basic MSFN, several instrumented ships and aircraft are available to augment the network as necessary. Manned space flight missions are controlled from the Manned Spacecraft Center, Houston, Texas, which maintains communications with the MSFN tracking stations through the NASCOM Ground Communications system.

Space Tracking and Data Acquisition Network

Another major GSFC tracking facility located near Goldstone Dry Lake is the Space Tracking and Data Acquisition Network (STADAN) station, known as the MOJAVE STADAN Station. STADAN tracking facilities, operated by GSFC, are engaged in tracking, controlling, and commanding a large



PIONEER STATION is the testing site for advanced techniques and equipment designed for standard DSIF installation. It is equipped with an 85-foot-diameter, polar-mounted antenna, and doubles as an operational tracking station during spacecraft missions. Additional facilities and equipment have been installed to support the Apollo Program.



ECHO STATION, also equipped with an 85-foot-diameter antenna, serves as headquarters for the Goldstone complex. It contains the DSIF administrative and engineering offices, a cafeteria, and dormitory facilities for the operations staff.

assortment of Earth-orbiting communications, scientific, and observatory satellites. The network consists of sixteen stations, widely separated at strategic locations on Earth, to track vehicles in both equatorial and polar orbits.

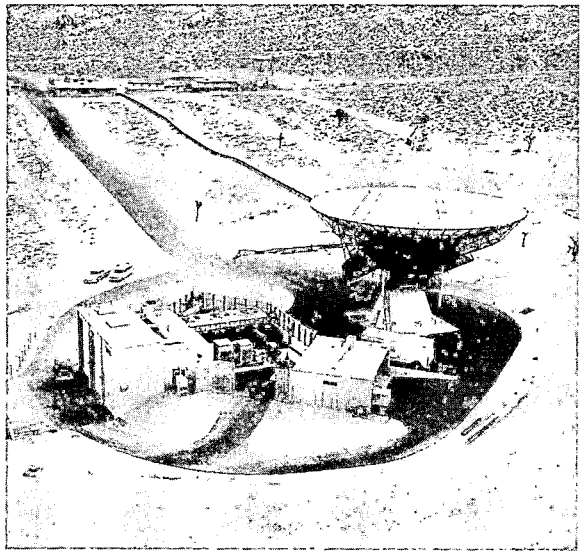
Goldstone Deep Space Communication Complex

The Goldstone complex of DSN, MSFN, and STADAN tracking stations is located in the Mojave Desert, about 45 miles from Barstow, California. Named for nearby Goldstone Dry Lake, the facility is situated on a 68-square-mile plot of land leased by NASA from the Department of Defense.

DSN deep space stations are Pioneer, Echo, Venus, and Mars, named for projects supported by the Deep Space Instrumentation Facility. In addition to participating in tracking operations, these stations also serve as the research and development center of the DSIF.

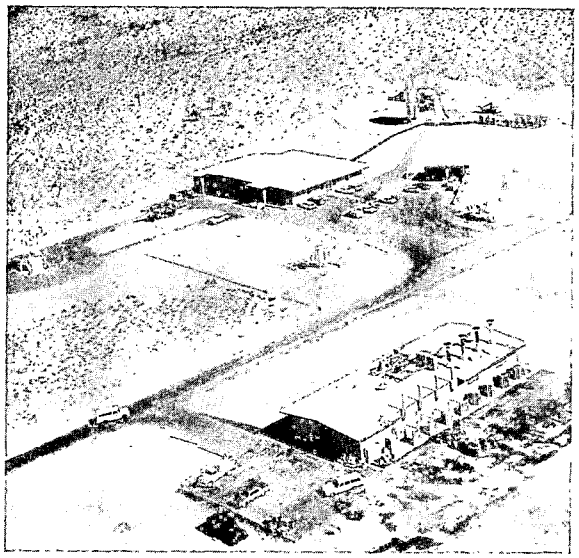
The MSFN maintains and operates the Apollo Station at Goldstone. Its 85-foot diameter, X-Y mounted antenna is designed to communicate with manned spacecraft and support the United States' manned lunar landing and exploration program.

The STADAN facility, known as the MOJAVE STADAN Station, has a variety of antenna devices used in obtaining high-precision tracking information and telemetered data from Earth-orbiting scientific and communications satellites.



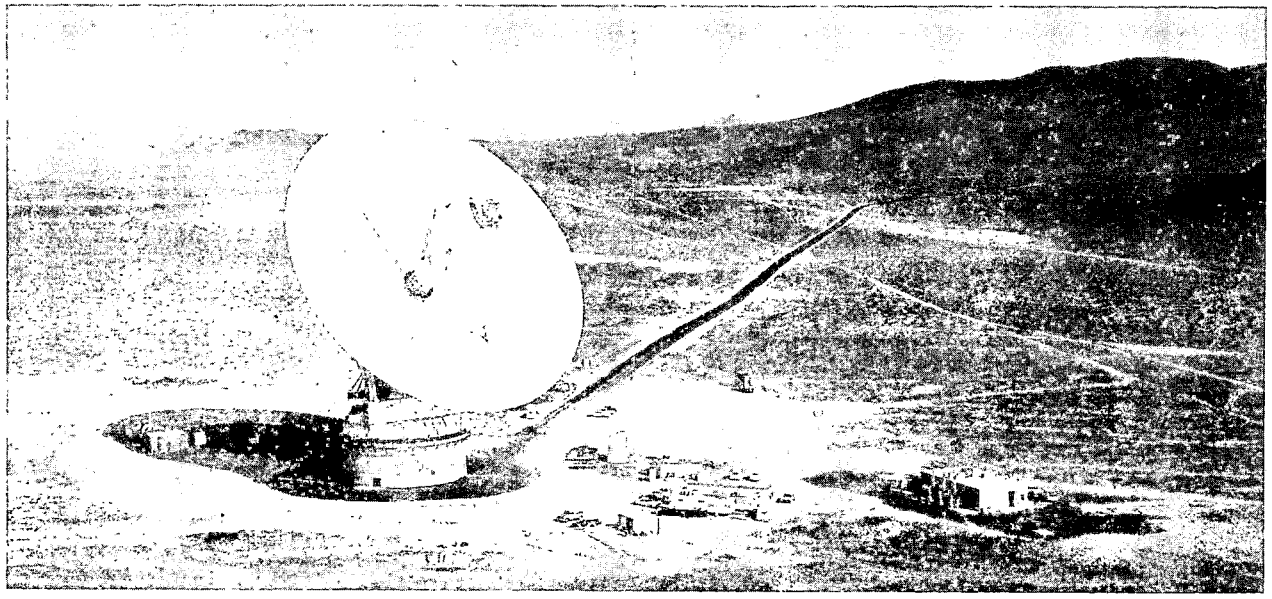
VENUS STATION is used primarily for lunar and planetary radar experiments and other advanced research and development activities related to DSIF deep-space communication techniques. Its 85-foot-diameter antenna has an azimuth–elevation mount and a powerful 100-kilowatt transmitter. A 30-foot-diameter antenna at the site is used for testing advanced systems.

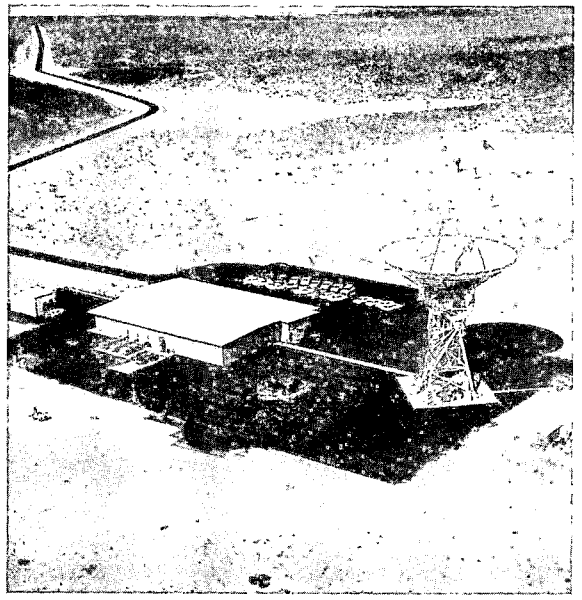
MARS STATION is the site of the new advanced antenna system with the largest antenna in the DSN. Its paraboloidal reflector is 210 feet in diameter and is capable of tracking spacecraft to the edge of the solar system.



MOJAVE STADAN STATION is equipped with an array of tracking antennas designed specifically for telecommunications with Earth-orbiting scientific and communications satellites. Two kinds of facilities are operated by the station; one is the interferometer tracking system, characterized by fixed-position antennas of steel rails lying parallel to the ground, and the other is an assortment of yagi arrays and a parabolic antenna designed to sweep the sky from horizon to horizon.

APOLLO STATION is an MSFN facility and is equipped with the unified S-band system, which permits the station to track and communicate with manned spacecraft at both Earth-orbit and lunar distances. It has an 85-foot antenna using an X-Y mount to enable complete sky coverage.





NASA CLOSING TRACKING STATION, PERU IS TOLD

The National Aeronautics and Space Administration has notified the peruvian government that it has decided to close the $2, million satellite tracking station near Lima.
NASA told the Instituto Geofisico del Peru that the station, 23 miles north of the capitol, is to be shut down "because of shifting program requirments and for economic reasons".
Since its construction more than a decade ago the Lima station has participated in more than 75 spacecraft tracking missions.
NASA said that technological advances will permit other tracking stations to support any future service of the type now being provided by the Peruvian government.
The station is to be shut down in stages gradually ending in November.
The Lima station has been operated for more than a year by a Peruvian crew assisted by two American engineers.

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