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CORONA [REDACTED]
SATELLITES MISSIONS

Declassified and Released by the N R O
In Accordance with E. O. 12958
on NOV 26 1997

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ARGON/CORONA

- 9058 - SUCCESSFUL AIR RECOVERY ON ORBIT 65. INSTRUMENT OPERATION WAS PERFECT.
- 1002-1 CAPSULE RECOVERED ON ORBIT 49. 80% OF FILM DEGRADED BY HEAVY SCRATCHES, DIGS, AND BANDS THROUGHOUT. MASTER UNIT ON CASSETTE FAILED. MISADJUSTMENT ON PUCK ARM. CONSISTENT LIGHT LEAKS.
- 1002-2 TRIED UNSUCCESSFUL TO RECOVER ON REV 165. VEHICLE DECODER FAILURE (AGENA).
- 9060 - SYSTEM BECAME UNSTABLE 90 SECONDS AFTER LAUNCH. AGENA FAILED TO IGNITE. SHARK BAIT.
- 9061 - TRIED TO RECOVER AFTER 81 REVOLUTIONS (4 DAYS) BUT CAPSULE DID NOT EJECT PROPERLY. CAPSULE REMAINED IN ORBIT.
- 9062 - SUCCESSFUL AIR RECOVERY ON REV 81. PERFECT INSTRUMENT OPERATION.
- 1004-1 SUCCESSFUL AIR RECOVERY ON ORBIT 49. INSTRUMENT OPERATION VERY GOOD.
- 1004-2 SUCCESSFUL AIR RECOVERY ON ORBIT 112. INSTRUMENT OPERATION GOOD.
- 1003 - NO ORBIT DUE TO AGENA FAILURE (REGULATED POWER FAILURE).
- 1005-1 SUCCESSFUL LAUNCH AND ORBIT. NO POWER FROM AGENA DUE TO PYRO BUSS FAILURE. SLAVE INSTRUMENT FAILED.
- 1006-1 SUCCESSFUL AIR RECOVERY. SECOND DOOR STUCK FOR 2 ORBITS. INSTRUMENT OPERATION GOOD.
- 1006-2 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.

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- 1007-1 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
RESOLUTION GOOD.
- 1007-2 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
- 1008-1 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
- 1008-2 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
- 1009-1 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
AGENA BEACON PROBLEM.
- 1009-2 SUCCESSFUL AIR RECOVERY. INSTRUMENT OPERATION GOOD.
AGENA BEACON PROBLEM.
- 1010 - LAUNCHED 14 SEPTEMBER. INSTRUMENT OPERATION GOOD.
- 1011 - LAUNCHED 5 OCTOBER. SUCCESSFUL RECOVERY OF FIRST FILM
BUCKET. SECOND BUCKET NOT RECOVERED DUE TO FAILURE
TELEMETRY RECEIVER.
- 1012 - LAUNCHED 17 OCTOBER. SUCCESSFUL RECOVERY OF BOTH BUCKETS.
SECOND BUCKET CALLED DOWN EARLY DUE TO COMMAND SIGNAL
PROBLEMS. FILM RECOVERED WAS MINIMAL.

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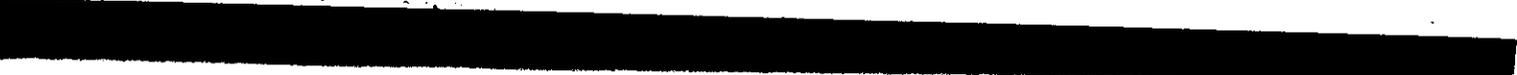
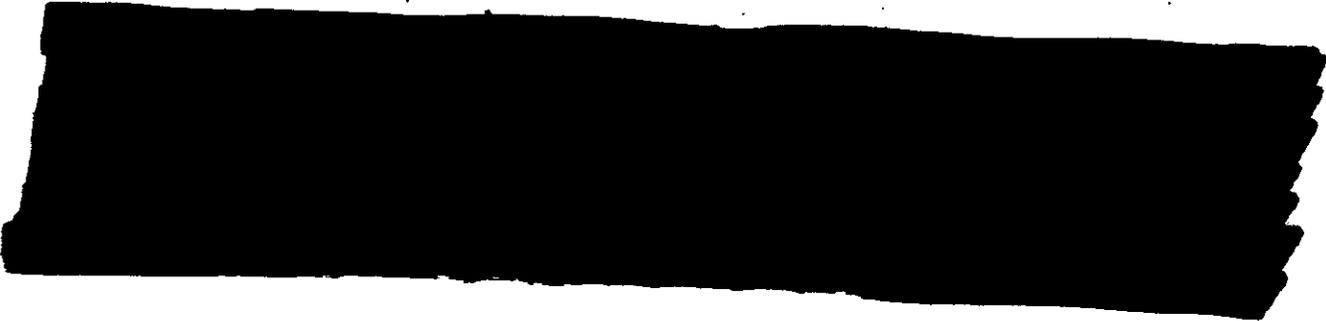
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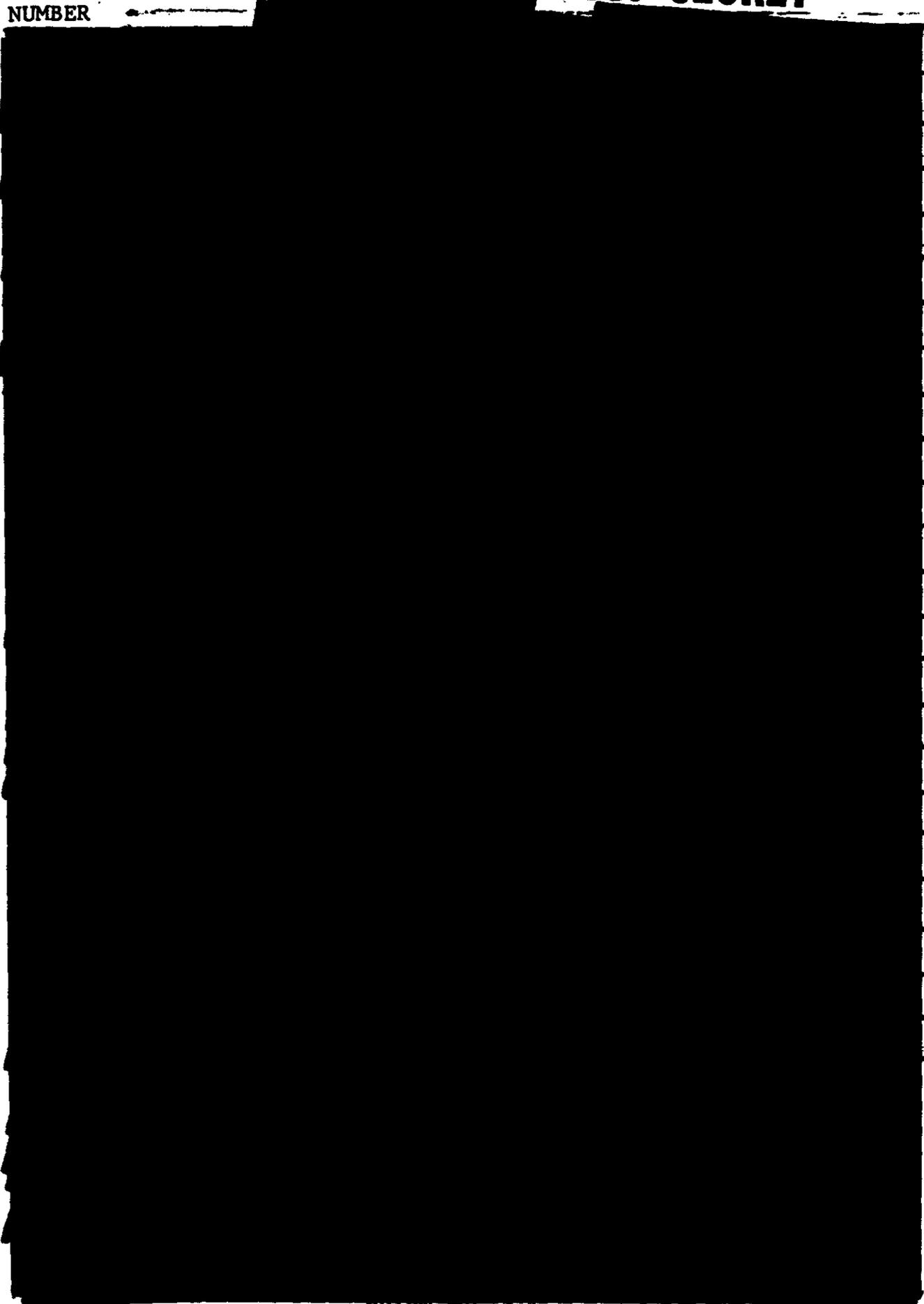
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MISSION
NUMBER

NUMBER OF DAYS DELAYED

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DISCOVERER SERIES

- 9051 - SUCCESSFUL WATER PICKUP. INSTRUMENT FUNCTIONED O.K.
ORBIT WAS 1000 MILES OUT OF THE BALL PARK DUE TO AGENA
PITCH. BOTH ANTENNAS BURNED IN HALF.
- 9052 - FIRST AND THIRD TAT BOOSTERS FAILED TO SEPARATE. MISSILE
WAS DESTROYED 100 SECONDS AFTER LAUNCH.
- 9053 - SUCCESSFUL AIR RECOVERY. HAD TO RECOVER AFTER 49 REV'S.
AGENA HAD A POWER SUPPLY PROBLEM (400 CYCLE INVERTER
FAILED). INSTRUMENT OPERATION O.K.
- 9054 - SUCCESSFUL AIR RECOVERY. MOCK "P" INSTRUMENT. INSTRUMENT
OPERATION O.K. CAPSULE RECOVERED ON ORBIT 65. MASTER
CAMERA EXPERIENCED MINOR LIGHT LEAK.
- 9056 - NORMAL RECOVERY OPERATION ON REV 65. "P" DOOR FAILED TO
EJECT. INSTRUMENT OPERATION O.K. FILM FROM MASTER CAMERA
SERIOUSLY DEGRADED BY A LIGHT LEAK.
- 9057 - SUCCESSFUL AIR RECOVERY. LOST CENTER FORMAT CLOSURE ON
SLAVE UNIT. TEMPERATURE IN ORBIT IN MID 80'S °F. RECOV-
ERED ON ORBIT 64.
- 1001-1 RECOVERED ON ORBIT 64. FIRST USE OF "J" SYSTEM. MASTER
PORT HORIZON CAMERA SHUTTER REMAINED OPEN SERIOUSLY FOGGING
1000 MASTER FRAMES. S/I FAILURE. MAIN INSTRUMENT OPERATION
O.K.
- 1002-2 TRIED UNSUCCESSFUL TO RECOVER CAPSULE AFTER 12 DORMANT DAYS.
400 CYCLE INVERTER ON AGENA FAILED. TEMPERATURE SENSORS
INDICATE VEHICLE RAN HOT.

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CORONA MURAL

<u>#</u>	<u>Days Delay</u>	<u># of Times Scheduled</u>	<u>Result</u>	<u>Reason</u>
9051	0	1	F	Agena
9052	4	2	F	Booster
9053	1	2	P	Agena
9054	12	2	P	Camera
9056	26	2	F	Camera
9057	2	2	P	Camera
9060	3	2	F	Agena
9061	0	1	F	Capsule
9062	9	2	S	-----
Average	<u>6</u>	Total <u>16</u>		

CORONA ARGON

<u>#</u>	<u>Days Delay</u>	<u># of Times Scheduled</u>	<u>Result</u>	<u>Reason</u>
9055	0	1	F	No Orbit
9058	14	5	S	-----
9059	11	5	S	-----
9065	22	4	S	-----
9066	4	2	S	-----
Average	<u>10</u>	Total <u>17</u>		

MISSION
NUMBER

NUMBER OF DAYS DELAYED
CORONA AND MURAS SATELLITES

MISSION NUMBER	NUMBER OF DAYS DELAYED
9051-M	0 (no readout, system-failed)
9052-M	4
9053-M	1
9054-M	12
9056-M	
9057-M	2
1001-J	18
1002-J	4
1003-J	
1004-J	
1005-J	
1006-J	
1007-J	
9060-M	3
9061-M	0 (no recovery, system-failed)
9062-M	9
9063-M	CANCELLED AFTER 23 DAYS
1008-J	7
1009-J	7
1010-J	7
1011-J	7
1012-J	1
1013-J	9 (each tic mark at top represents 1 week)

LEGEND



GOOD MISSION

PARTIALLY SUCCESSFUL

FAILURE

#	Days Delay	# of Times Scheduled	Result	Reason
1001	18	5	1RV	Decoder
1002	24	5	1RV	Film Degraded
1003	190	19	F	Agena
1004	123	10	2RV	--
1005	185	11	F	Agena
1006	203	7	2RV	--
1007	34	8	2RV	--
1008	0	1	2RV	--
1009	30	5	2RV	--
1010	42	2	2RV	--
1011	4	2	1RV	Telemetry
1012	1	2	2RV	Command
Average	<u>71</u>	Total	<u>77</u>	

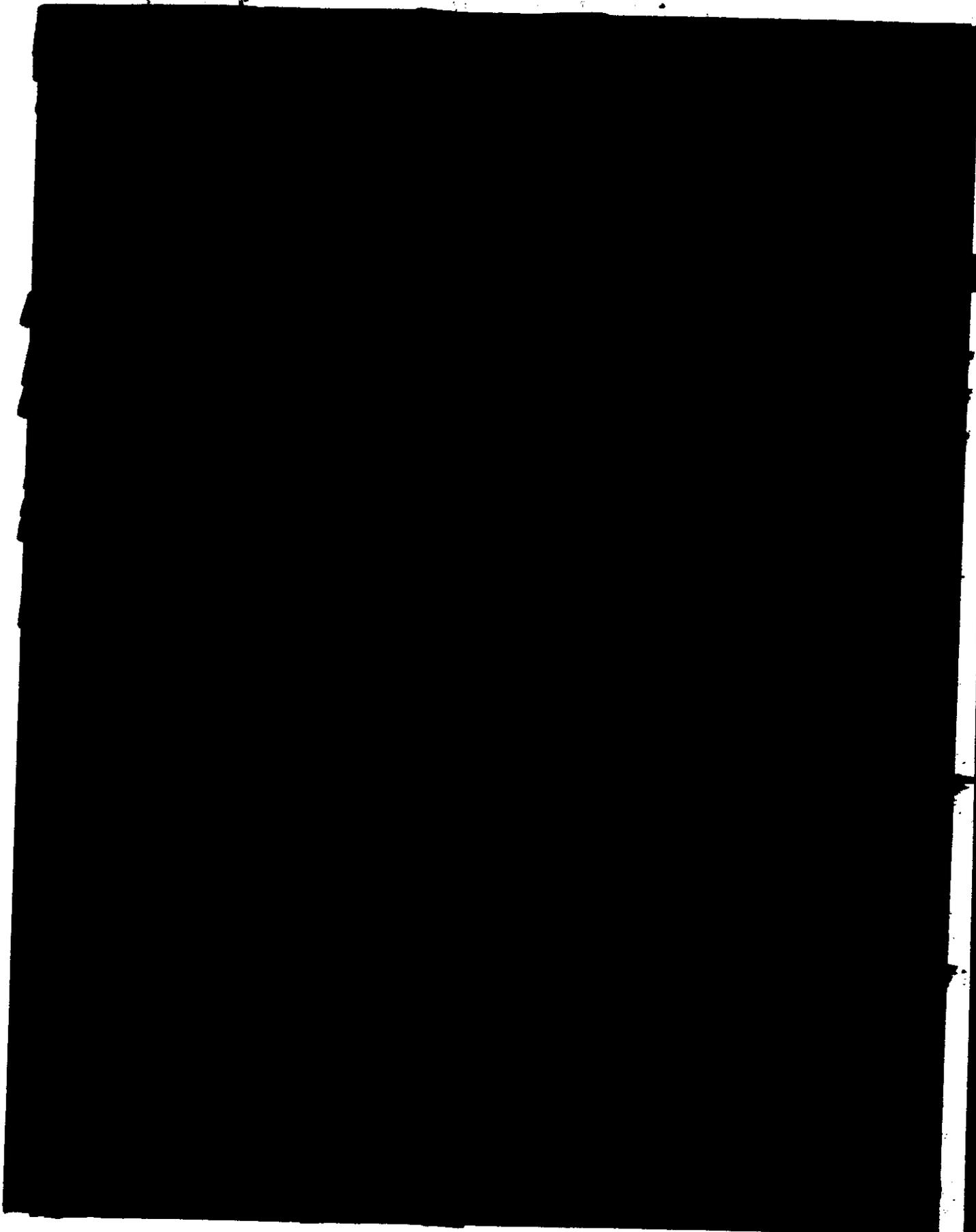
* F - Failure

1RV - Partially Successful

2RV - Successful

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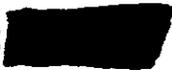
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CHART #1 : LIST THOSE CORONA MURAL AND CORONA-J SYSTEMS LAUNCHED FROM JANUARY 1963 TO DATE. BAR-GRAPH SHOWS:

- a. THE RELATIVE DELAY INDICATED IN EACH BAR.
- b. THE RESULTS OF THE MISSION INCLUDING WHETHER GOOD, PARTIALLY SUCCESSFUL OR FAILURE DENOTED BY COLOR CODE.

CHART #2 : LIST THE SAME INFORMATION AS ABOVE FOR THE  SYSTEMS.

TEXT : NOTES THE CAUSES FOR MISSIONS NOT FULLY SUCCESSFUL
STATISTICAL NOTES

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