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17 October 1967

TO: [REDACTED]

THRU: [REDACTED]

FROM: [REDACTED]

SUBJECT: MISSION 1035-1 and 1035-2 FINAL REPORT

Enclosed is the Final Performance Evaluation Report for
Mission 1035-1 and 1035-2.

[REDACTED]
[REDACTED] Manager
Advanced Projects

Declassified and Released by the N R O

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CORONA J
PERFORMANCE EVALUATION REPORT
MISSION 1035-1 and 1035-2

FTV 1628, J-36

8 September 1967

Approved: [REDACTED]

Manager
Advanced Projects

Approved: [REDACTED]

Mgr.

FOREWORD

This report details the performance of the payload system during the operational phase of the Program [REDACTED] Flight Test Vehicle 1628.

Lockheed Missiles and Space Company has the responsibility for evaluating payload performance under the "Level-of-Effort" and "J" System contracts.

This document is the final payload test and performance evaluation report for Missions 1035-1 and 1035-2 which was launched on 20 September 1966.

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INTRODUCTION

This report presents the final performance evaluation of Missions 1035-1 and 1035-2 of the Corona Program. The purpose of this report is to define the performance characteristics of the J-36 payload system and to identify the source of in-flight anomalies.

The performance evaluation was jointly conducted by representatives of Lockheed Missiles and Space Company (LMSC) and ITEK at the facilities of NPIC and AFSPPF. The off-line evaluation using Corona engineering photography acquired over the United States was performed at the individual contractors plants.

The quantitative data used for this report is obtained from government organizations. The diffuse density data, and MTF/AIM resolution are produced by AFSPPF. The vehicle attitude error values, frame correlation times are made at NPIC who also supply the Processing Summary reports published by [REDACTED]

Computer programs developed by A/P are utilized to calculate and plot the frequency distribution of the various contributors to image smear to permit analysis and correlation of the conditions of photography to the information content and quality of the acquired pictures. Computer analysis of the exposure, processing and illumination data provides the necessary data to analyze the exposure criteria selected for the mission.

SECTION 1

SYSTEM PERFORMANCE

A. MISSION OBJECTIVES

The payload section of Mission 1035, placed into orbit by Flight Test Vehicle #1020 and LV-2A booster #477, consisted of two panoramic cameras, two Stellar-Index cameras, two Mark 5A recovery capsules and a space structure to enclose the cameras and provide mounting surfaces for all equipments. Figure 1-1 presents an inboard profile of the J-36 payload system. This Corona "J" system is designed to acquire search and reconnaissance photography of selected areas of the earth from orbital altitudes. The planned mission was two, 5 day photographic periods with no deactivate period.

B. MISSION DESCRIPTION

The payload was launched from Vandenberg Air Force Base (VAFB) at 2103:05 Z (1414:05 PDT) on 20 September 1966. Ascent and injection were normal and the achieved orbit was within nominal tolerances. Tracking and command support was effected by the Air Force Satellite Control Facility consisting of tracking and command stations at [REDACTED] under central control of the Satellite Test Center at Sunnyvale, California. Mission 1035-1 consisted of a 5 day operation and was completed by air recovery on 25 September 1966. Mission 1035-2 was completed with an air recovery on 30 September 1966 following a 5 day photographic operation.

The comparison of the planned and actual orbit parameters is tabulated as follows:

ORBITAL PARAMETERS

<u>Parameter</u>	<u>Orbit 1 Predicted</u>	<u>Orbit 120 Actuals</u>
Period (Min.)	91.06	90.601
Perigee (N.M.)	99.6	100.718
Apogee (N.M.)	254.9	238.820
Inclination (Deg.)	85.00	85.054
Perigee Latitude (Deg. N.)	18	48.780
Eccentricity	0.0215	0.01915

C. PANORAMIC CAMERAS

The instruments operated normally throughout both missions. The photo quality was excellent. The average cloud cover was 30% on the -1 mission and 40% on the -2.

The horizon camera was not veiled, but reported as slightly over-exposed on the sun side of the vehicle.

D. STELLAR-INDEX CAMERAS

Both units operated satisfactorily. Each stellar format contained at least 15 star images. The index camera produced good photo quality.

E. OTHER SUBSYSTEMS

The clock instrumentation, command, pressure make-up and thermal control systems performed satisfactorily.

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SCHEMATIC INBOARD PROFILE - CORONA J SYSTEM

MISSION 1035

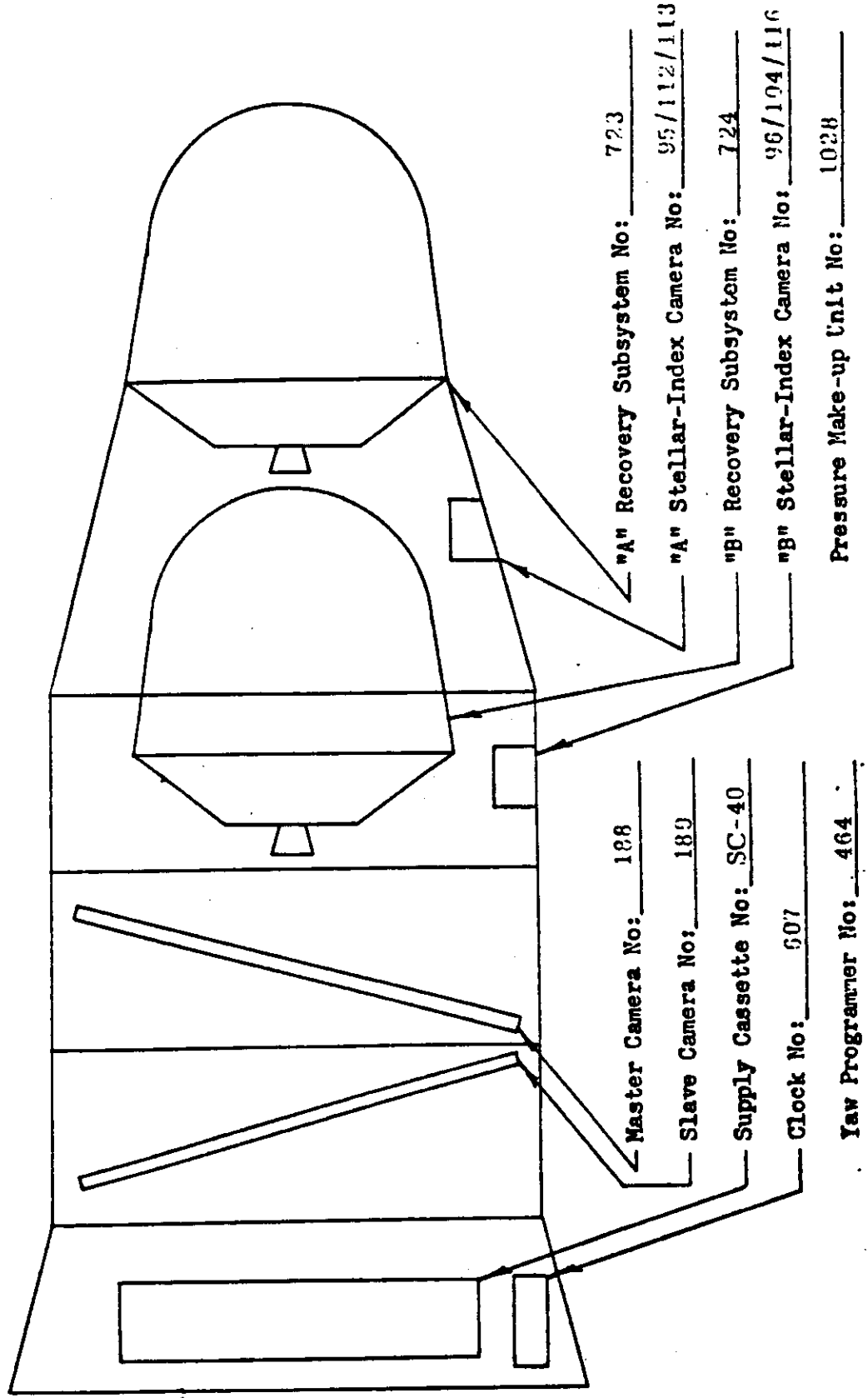


FIGURE 1-1

SECTION 2

PRE-FLIGHT SYSTEMS TESTS

A. ENVIRONMENTAL TESTING

1. Test Objective

As a standard procedure, the J payload systems are subjected to thermal/altitude environmental testing which simulates orbital environment. One of the purposes of this test is to demonstrate the system susceptibility to corona discharge. Such discharge fogs the film thus degrading the operational photography.

2. Test Summary

The J-36 system was tested in the HIFOS chamber during the period 13-21 April. Nearly 10,000 feet of payload was cycled through each system in simulated complete "A" and "B" missions. Internal system pressures as low as 1.0 microns were recorded and provided adequate demonstrations of Corona characteristics.

The J-36 system is the first with "pan-geometry" modifications to be tested at A/P. The main features of these modifications on the payload are small reference or fiducial spots exposed through holes in the rails, and three lines exposed through collimators on the main cells indicating IMC displacement.

The main instruments showed good to excellent recording of all data, excluding the PG features described above. Horizon camera functioning appeared normal throughout. Both instruments produced minor Corona from the input metering rollers at low pressure starts. The condition was well within the acceptance standards. Cut and wrap functions between "A" and "B" missions produced no defects on the payload. Scratching from rails and scan head rollers was within the normal range on both instruments. Some unidentified and relatively severe scratches of an apparently random nature appear on the slave payload. Since the scratches appear during the "B" mission as well as the "A" mission, it is demonstrated that the often blamed main payload chute was not the cause.

All data recording in both stellar/index units was acceptable. Both stellar films showed minor Corona marks that are acceptable for flight. The index films showed no Corona marking. Small plus density streaks were noted in some "A" mission stellar formats. The condition does not appear to be a flight hazard, but the cause is not known and investigation is continuing. The "B" mission stellar film shows evidence of several instances of shutter failure in the open position. This condition is not acceptable for flight. The reseau plate of this stellar unit appeared to have a large number of foreign particles and it was cleaned.

The pan geometry features of the J-36 system cannot be adequately evaluated on the basis of data presently available. Ideally, the rail hole images should be circular, about 40 microns in diameter, and of high density with sharp edges. In actual practice, considerable variation may be tolerated if reference points can be identified with sufficient accuracy. From the defined characteristics of the rail hole images, it appears that variations in the placement of cross hairs on any image should not exceed five microns from a mean location. This criterion has been used to subjectively evaluate the rail hole images of the J-36 cameras.

Images of all rail holes on both instruments were detected on the test film. On master camera No. 188, the hole images on the data block edge were acceptable except for the first two and last one (counting in the direction of scan). At the timing mark edge, the first, as well as the last seven hole images are poor. On slave camera #189, there are very few hole images of good quality. In general, the data block edge is better than the timing mark edge. It is estimated that the probable error in placing a cross hair on some hole images would be in the order of 20 microns.

Both cameras recorded continuous IMC traces. Some variation in density and width of these traces is noted. Slight oscillations in the traces were also noted, however, there are no present means for distinguishing an instrumentation defect from a system characteristic in this case.

It is concluded that basic J system functions were performed satisfactorily except for the stellar shutter failure on unit No. D-96. To the extent that the PG functions presently can be evaluated, it is concluded that master unit No. 188 performed acceptably, but that rail hole images on Unit No. 189 had to be improved for acceptable photogrammetric application. These hole images were adjusted to an acceptable condition in subsequent atmospheric tests.

The panoramic camera operation was normal. The cycle rates are shown in Table 2-1.

The clock system performance was acceptable. See Table 2-2.

The pressure make-up system operation was satisfactory. The gas depletion rate was 7 lbs./min. on the -1 mission and 8.1 lbs./min. on -2 mission.

PRESSURE PROFILE (Microns)

-1 Mission	PMU ON	PMU OFF
Pressure (Prior to Camera ON)	4	2
Pressure (At Camera OFF) (Lowest point)	44	7
-2 Mission		
Pressure (Prior to Camera ON)	1	1
Pressure (At Camera OFF) (Lowest point)	43	6

The thermal environment was normal:

Average Panoramic Instrument Temperatures ($^{\circ}$ F) (Thermocouple)

-1 Mission	Master		Slave		<u>Beta Angle</u> $^{\circ}$
	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	
Day					
1	100	71	90	71	53
2	86	69	76	60	53
3	94	76	84	69	53
4	77	70	73	62	0

-2 Mission	Master		Slave		
	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Low</u>	
Day					
1	76	66	75	64	0
2	80	71	79	70	0
3	76	72	75	72	0

B. RESOLUTION TEST

Resolution and theodolite tests were performed on 10 May 1966. Results of the thru-focus resolution tests of pan instruments 188 and 189 show the following characteristics:

Master Pan Instrument No. 188

Maximum high contrast resolution 180 lines/mm at 0.000 focal position.

Maximum low contrast resolution 117 lines/mm at 0.000 focal position.

Slave Instrument No. 189

Maximum high contrast resolution 174 lines/mm at 0.000 focal position.

Maximum low contrast resolution 110 lines/mm at 0.000 focal position.

The test data for both instruments is shown in Figures 2-1 and 2-2. Both instruments met the system requirements specification.

C. LIGHT LEAK TEST

The live payload light leak test of the J-36 system was completed on 25 May. Examination of the test payload showed material from the master instrument to be virtually free of light leak fog defects. However, material from the slave instrument showed two regions of light leak fog. One region is where the payload passes the drum side of the slave mainplate; the other is where it passes the same point on the master instrument.

A photomultiplier and visual check verified a suspected leak along the slave instrument laminated strips which form a light seal over the drum flange. It is believed that the RTV seal was broken during installation of improved felt seals at the side of the drum. RTV was applied to the laminated strips and a subsequent photomultiplier check verified the fix.

It was believed that a similar leak on the master camera caused the second fog area on the slave film. However, the visual and photomultiplier checks indicated that much of the fogging light was entering at the mainplate end of the input felt seal. It was recommended that RTV be applied to the laminated strips of the master instrument and that a photomultiplier verification then be attempted. A reduced photomultiplier response would indicate the leakage had been reduced below any significant level, while a substantially unchanged response would indicate that the fog producing leakage entered at the end of the felt seal where no effective remedy is available. The photomultiplier response after applying RTV was unchanged (20 MV. before and after).

The light leakage performance of the J-36 system is therefore considered acceptable except for the leak described in the preceding paragraph for which a waiver is recommended. This leak produced a density of 0.92 at the edge of the film and a maximum density in the format area of 0.51.

It should be noted J-36 is the first system with the felt seal and drum modifications tested at A/P. While this test has demonstrated that the modifications provide a substantial improvement, it is apparent that they are not a complete solution to the chronic problem of the pan camera light leakage.

D. J-36 (PG-1) FLIGHT READINESS AND CERTIFICATION

A final flight readiness test, completed on 15 September, produced pan instrument payload in generally excellent condition. All basic data recording was acceptable and the payload was unusually free of random scratches and minus density streaks.

Photogrammetric data recording was acceptable for the speed at which the system was operated. On master instrument No. 188, rail hole image #40 on the data block side, and hole #10 on the timing mark edge were missing. On slave instrument #189, all rail hole images were present but hole image #14 on the timing mark edge was of low density and probably will not appear on flight material. The lens scan lines of both instruments appeared excellent throughout the format.

Spacing of the 200 cycle marks indicated that the cycle period for both instruments was about seven seconds. This rate provides an exposure of the PG data that is about three times that provided at flight speeds. Experience with this system has shown that higher cycle rates also cause dynamic anomalies that degrade PG data recording. Therefore, this excellent readiness test payload cannot be considered valid baseline data for flight evaluation purposes.

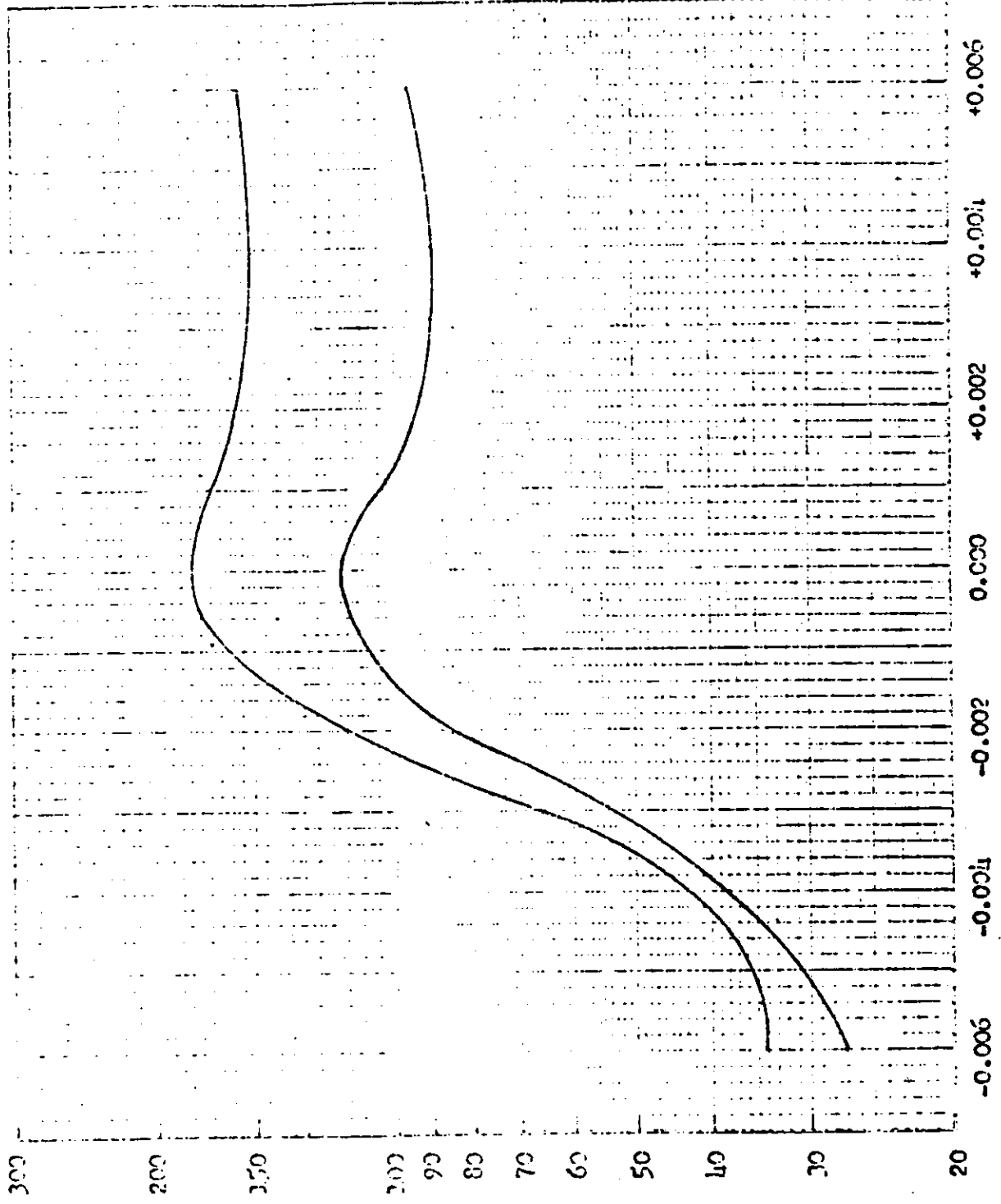
Loading of the main instruments supply cassette was performed on 16 September. Sensitometric samples of this main payload showed the type 3404 emulsions to have acceptable characteristics. Bands of probable faint backing scratches parallel to the major axis were detected in both flight samples. Similar streaks were observed in these films during subsequent tracking tests. Such streaks are frequently observed during flight loading tracking tests but they have not been detected in processed material. Since this condition causes no detectable density and is on the backing surface, it is not considered a hazard to either the original flight information or subsequently produced copies.

Sensitometric samples of stellar and index flight payloads had been processed on 7 September. Results on all four films were acceptable.

Tracking and light leak tests were completed on 17 September. Other than the backing streaks on main payloads noted above, no anomalies were noted. The J-36 system was then certified for flight.

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PER-FLUOROPOLYMER DYNAMIC RANGE



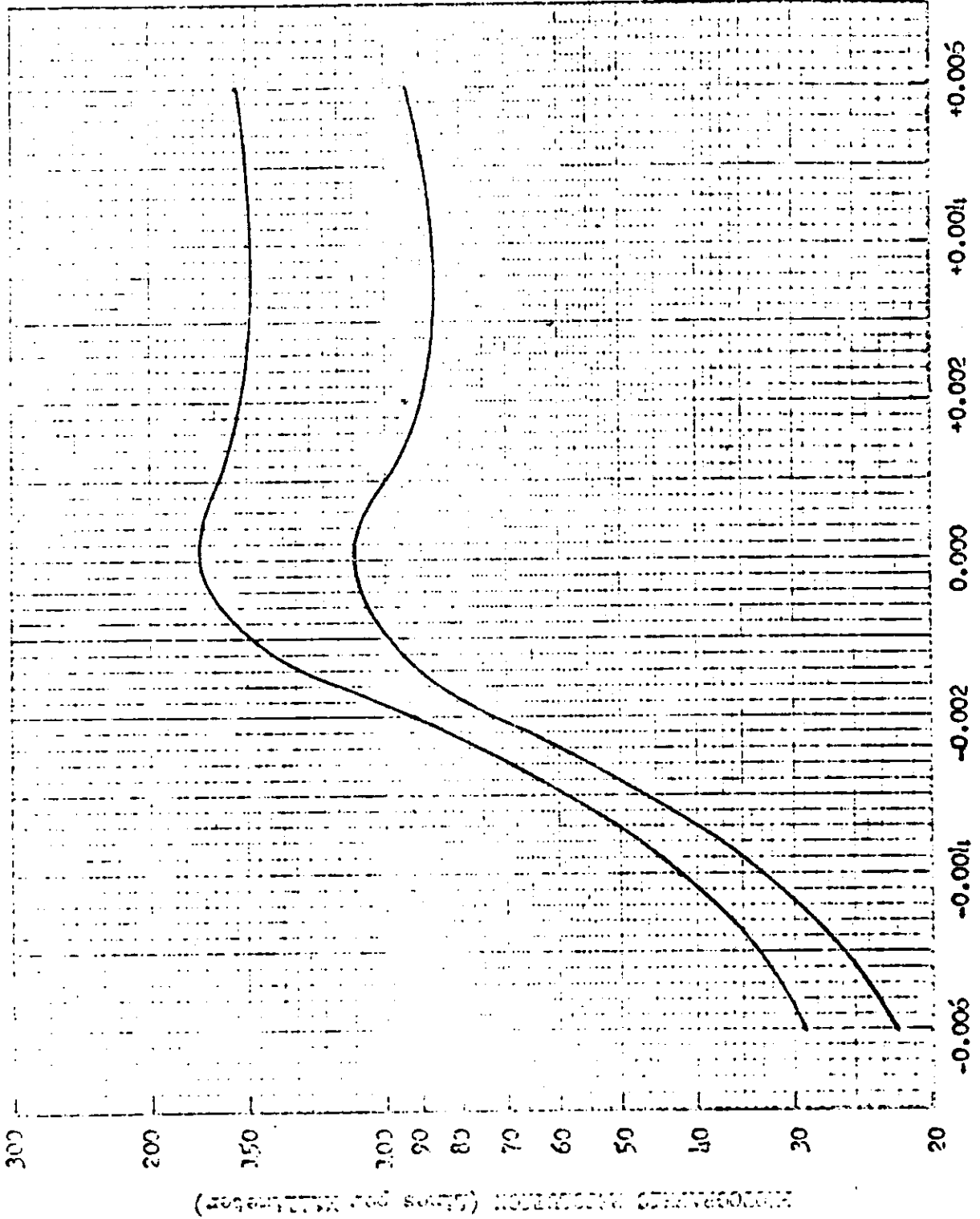
Camera No: 188
Payload No: J-36
Resolution (l/mm) _____
High Contrast: 160
Low Contrast: 117
Film Type: 3404
Test Date: 5/10/66

THROUGH FOCUS INCREMENTS (Inches)

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PRE-FLIGHT INTRINSIC RESOLUTION



Camera No: 189

Payload No: J-36

Resolution (l./mm) 174

High Contrast: 174

Low Contrast: 110

Film Type: 3404

Test Date: 5/10/66

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REV. CODE	CP	RAMP R	TOR A	SYSTEM SECS CALIB.	INST. 188			INST. 189			188/189 DIFF	
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.		
2A		4	1	75	4.346	4.355	0.00S	0.20S	4.365	0.62S	0.43S	0.21
2A		4	1	1823	2.200	2.216	0.59S	0.74S	2.215	0.85S	0.70S	-0.09
2A		4	1	1882	2.197	2.212	0.55S	0.70S	2.207	0.62S	0.47S	-0.21
2A		4	1	2011	2.192	2.218	1.02S	1.16S	2.212	1.04S	0.89S	-0.21
2A		4	1	2632	2.348	2.335	0.90F	0.57F	2.339	0.08F	0.40F	0.17
2A		4	1	2658	2.393	2.370	1.29F	0.96F	2.371	0.60F	0.92F	0.04
2A		4	1	2884	2.789	2.773	0.89F	0.58F	2.772	0.29F	0.61F	-0.04
2A		4	1	3084	3.171	3.149	1.00F	0.70F	3.154	0.24F	0.54F	0.16
2A		4	1	3175	3.367	3.340	1.09F	0.80F	3.344	0.40F	0.69F	0.12
2A		5	8	82	3.089	3.088	0.14F	0.17S	3.080	0.21S	0.09F	-0.26
2A		5	8	2027	2.373	2.376	0.21F	0.12S	2.375	0.40S	0.07S	-0.04
2A		5	8	2879	2.744	2.735	0.65F	0.33F	2.732	0.12F	0.44F	-0.11
2A		5	8	3398	2.993	2.986	0.54F	0.23F	2.983	0.03F	0.33F	-0.10
3A		7	7	0	3.615	3.603	0.60F	0.34F	3.590	0.43F	0.70F	-0.36
3A		7	7	0	3.615	3.592	0.90F	0.64F	3.577	0.79F	1.05F	-0.42
3A		7	7	1591	2.561	2.565	0.17F	0.16S	2.564	0.44S	0.12S	-0.04
3A		7	7	1895	2.478	2.482	0.17F	0.16S	2.481	0.45S	0.12S	-0.04
3A		7	7	1960	2.478	2.469	0.88F	0.35F	2.471	0.05S	0.27F	0.08
3A		7	7	2029	2.484	2.471	0.88F	0.54F	2.469	0.29F	0.62F	-0.08

Table 2-1

-----INST. 188-----|-----INST. 189-----|

REV. CODE	CP	RAMP R	TWA A	SYSTEM SEPS CALIB.	ACTUAL	UNIT DEV.	SYSTEM BLV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	DEV.	DEV.
4A	11	1	102	8.755	8.484	3.04F	3.43F	3.427	4.25F	3.86F	-0.	
4A	11	1	1556	2.454	2.485	0.67F	0.35F	2.484	0.08F	0.39F	-0.	
4A	11	1	1831	2.408	2.392	0.92F	0.59F	2.383	0.65F	0.97F	-0.	
4A	11	1	1702	2.344	2.328	0.99F	0.67F	2.320	0.63F	1.01F	-0.	
4A	11	1	2024	2.273	2.279	0.08F	0.24S	2.273	0.31S	0.02F	-0.	
4A	11	1	3351	2.560	2.541	1.08F	0.78F	2.533	0.75F	1.07F	-0.	
4A	11	1	2463	2.752	2.726	1.61F	1.39F	2.716	1.34F	1.65F	-0.	
4A	11	1	2848	3.253	3.215	1.47F	1.18F	3.206	1.17F	1.46F	-0.	
4A	11	1	2884	4.100	4.086	1.30F	1.08F	4.045	1.13F	1.35F	-0.	
4A	11	1	3418	7.033	6.891	1.80F	1.95F	6.660	2.54F	2.39F	-0.	
5A	4	1	93	4.338	4.378	0.72S	0.91S	4.405	1.74S	1.54S	0.	
5A	4	1	2389	2.210	2.229	0.67S	0.84S	2.233	1.19S	1.02S	0.	
5A	4	1	2463	2.222	2.234	0.34S	0.52S	2.241	1.01S	0.83S	0.	
5A	4	1	3421	3.274	3.291	0.20S	0.44S	3.903	1.00S	0.75S	0.	
6A	5	8	71	3.082	3.068	0.12F	0.18S					
6A	5	8	2048	2.375				2.404	1.54S	1.21S		
6A	5	8	2854	2.815	2.830	0.24S	0.57S	2.643	1.39S	1.07S	0.	
6A	5	8	2893	2.751	2.757	0.13F	0.21S					
6A	5	8	3081	2.849	2.882	0.14S	0.46S	2.886	0.92S	0.60S	0.	
6A	5	8	3176	2.898	2.903	0.13F	0.19S	2.902	0.47S	0.15S	-0.	
6A	5	8	3420	3.001				3.003	0.37S	0.08S		
7A	7	7	91	3.610	3.618	0.04F	0.23S	3.617	0.47S	0.20S	-0.	

Table 2-1

REV. MODE	CP	RAPP R	TOR A	SYSTEM SECS	CALIB.	INST. 188			INST. 189			189/ DIF
						ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	
7A		7	7	2033	2.485	2.508	0.20S	0.93S	2.510	1.48S	1.13S	0.0
7A		7	7	2057	2.854	2.860	0.10F	0.22S	2.858	0.47S	0.15S	-0.0
7A		7	7	3070	3.212	3.227	0.12S	0.48S	3.225	0.71S	0.42S	-0.0
7A		7	7	3178	3.299	3.303	0.12F	0.11S	3.299	0.28S	0.01F	-0.1
8A		11	1	102	6.765	6.780	0.58S	0.17S				
8A		11	1	2044	2.280				2.286	0.52S	0.26S	
8A		11	1	2554	3.273	3.238	1.37F	1.08F	3.246	0.54F	0.83F	0.1
8A		11	1	2579	4.081	4.038	1.28F	1.06F				
8A		11	1	3173	5.486	5.456	0.60F	0.54F	5.456	0.48F	0.54F	-0.0
8A		11	1	3438	7.159				7.093	1.09F	0.92F	
9A		4	1	0	4.359	4.338	0.67F	0.48F	4.329	0.50F	0.69F	-0.2
9A		4	1	0	4.359	4.335	0.74F	0.55F	4.332	0.43F	0.62F	-0.0
9A		4	1	0	4.359	4.357	0.24F	0.04F	4.351	0.01S	0.18F	-0.1
9A		4	1	0	4.359	4.362	0.12F	0.07S	4.358	0.17S	0.02F	-0.0
9A		4	1	0	4.359	4.326	0.95F	0.76F	4.316	0.79F	0.99F	-0.2
9A		4	1	0	4.359	4.347	0.47F	0.27F	4.326	0.56F	0.76F	-0.4
10A		5	8	91	3.081	3.069	0.70F	0.39F	3.056	0.51F	0.81F	-0.4
10A		5	8	1558	2.438	2.450	0.17S	0.50S	2.443	0.54S	0.21S	-0.2
10A		5	8	1698	2.355	2.355	0.35F	0.02F	2.390	0.10S	0.23F	-0.2
10A		5	8	2030	2.374	2.378	0.14F	0.19S	2.372	0.26S	0.07F	-0.2
10A		5	8	2323	2.445	2.449	0.16F	0.17S	2.442	0.21S	0.12F	-0.2
10A		5	8	2466	2.508	2.501	0.82F	0.29F	2.492	0.33F	0.65F	-0.3

Table 2-1

REV. MODE	CP	RAMP R	TOR A	SYSTEM SECS	CALIB.	INST. 16F			INST. 169			1367 DIF
						ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	
10A		5	8	2570	2.576	2.551	0.25S	0.57S	2.574	0.24S	0.09F	-0.6
10A		5	8	2702	2.646	2.628	0.95F	0.57F	2.620	0.05F	0.97F	-0.3
10A		5	8	2863	2.746	2.750	0.18F	0.24S	2.731	0.23F	0.55F	-0.6
10A		5	8	2941	2.776	2.763	0.80F	0.48F	2.750	0.63F	0.95F	-0.4
10A		5	8	3121	2.869	2.869	0.32F	0.00F	2.851	0.32F	0.63F	-0.6
10A		5	8	3193	2.904	2.886	0.94F	0.63F	2.870	0.87F	1.18F	-0.5
10A		5	8	3375	2.984	2.975	0.62F	0.31F	2.962	0.43F	0.74F	-0.4
10A		5	8	3477	3.021	2.990	1.35F	1.04F	2.982	1.00F	1.31F	-0.2
11A		4	1	90	4.340	4.293	1.27F	1.08F	4.284	1.09F	1.29F	-0.2
11A		4	1	1504	2.209	2.226	0.60S	0.77S	2.213	0.34S	0.16S	-0.5
11A		4	1	1669	2.197	2.207	0.29S	0.44S	2.193	0.18S	0.03S	-0.4
11A		4	1	1971	2.192	2.212	0.76S	0.91S	2.198	0.41S	0.27S	-0.6
11A		4	1	2404	2.214	2.230	0.53S	0.70S	2.216	0.24S	0.07S	-0.6
11A		4	1	2656	2.350	2.355	0.52F	0.19F	2.371	0.45F	0.78F	-0.5
11A		4	1	2942	2.854	2.859	0.48F	0.17F	2.872	0.44F	0.75F	-0.5
11A		4	1	3070	3.143	3.140	0.39F	0.09F	3.125	0.26F	0.56F	-0.4
11A		4	1	3211	3.437	3.409	1.10F	0.82F	3.398	0.86F	1.14F	-0.3
11A		4	1	3449	3.618	3.901	0.52F	0.68F	3.874	1.13F	1.37F	-0.6
12A		11	1	1590	2.451	2.474	0.60S	0.93S	2.464	0.65S	0.52S	-0.4
12A		11	1	1715	2.334	2.335	0.16F	0.17S	2.331	0.19S	0.13F	-0.3
12A		11	1	2017	2.271	2.283	0.18S	0.51S	2.276	0.53S	0.20S	-0.3
12A		11	1	2372	2.593	2.581	0.80F	0.48F				

Table 2-1

REV. MODE	CP	RAMP K	TKR A	SYSTEM SECS	SYSTEM CALIB.	INST. 188			INST. 189		
						ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.
12A	11	1	2386	2.617				2.575	1.27F	1.59F	
12A	11	1	2844	3.240	3.187	1.93F	1.84F	3.184	1.44F	1.73F -	
12A	11	1	2909	4.195	4.167	0.97F	0.76F	4.137	1.27F	1.47F -	
12A	11	1	3170	5.448	5.441	0.56F	0.50F	5.395	1.28F	1.34F -	
13A	4	1	98	4.336	4.305	0.90F	0.71F	4.282	1.05F	1.24F -	
13A	4	1	1933	2.192	2.217	0.95S	1.14S	2.203	0.64S	0.50S -	
13A	4	1	1977	2.192	2.212	0.76S	0.90S	2.200	0.50S	0.36S -	
13A	4	1	2021	2.193	2.209	0.80S	0.75S				
13A	4	1	2043	2.193	2.207	0.50S	0.64S	2.196	0.25S	0.14S -	
13A	4	1	3210	3.435	3.433	0.34F	0.06F	3.421	0.13F	0.41F -	
13A	4	1	3509	4.036	4.007	0.95F	0.73F	3.986	1.02F	1.25F -	
14A	5	8	93	3.081	3.103	0.41S	0.72S	3.105	1.09S	0.78S 0.	
14A	5	8	2310	2.440	2.471	0.94S	1.27S	2.477	1.80S	1.51S 0.	
14A	5	8	2381	2.469	2.489	0.50S	0.83S	2.494	1.36S	1.03S 0.	
14A	5	8	2466	2.506	2.521	0.18S	0.50S	2.529	1.15S	0.82S 0.	
14A	5	8	2871	2.740	2.768	0.70S	1.03S	2.767	1.32S	0.99S -	
14A	5	8	2957	2.785	2.805	0.40S	0.73S	2.801	0.90S	0.58S -	
15A	7	7	91	3.610	3.634	0.40S	0.67S	3.643	1.15S	0.92S 0.	
15A	7	7	2309	2.582	2.610	0.76S	1.09S	2.615	1.61S	1.28S 0.	
15A	7	7	2460	2.681	2.686	0.13F	0.20S	2.697	0.93S	0.61S 0.	
15A	7	7	2861	3.035	3.064	0.52S	0.83S	3.064	1.14S	0.83S -	
15A	7	7	2953	3.115	3.122	0.07F	0.24S	3.127	0.70S	0.40S 0.	

Table 2-1

REV. MODE	CP	RAMP N°	TOK A SECS	SYSTEM CALIB.	INST. 185			INST. 189			189 DI
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	
185	4	1	2011	2.192	2.216	C.93S	1.07S	2.213	1.08S	0.94S	-0.
185	4	1	2375	2.211	2.227	C.55S	0.72S	2.230	1.02S	0.86S	0.
185	4	1	2543	2.370	2.378	C.01F	0.32S	2.388	1.07S	0.74S	0.
185	4	1	2911	2.837	2.863	C.55S	0.91S	2.886	1.34S	1.02S	0.
185	4	1	3184	3.338	3.376	C.26S	1.15S	3.384	1.69S	1.39S	0.
185	4	1	3450	3.930	3.961	C.56S	0.80S	3.965	1.14S	0.90S	0.
18	4	1	53	4.338	4.358	C.26S	0.45S	4.360	0.70S	0.50S	0.
18	4	1	1578	2.203	2.221	C.68S	0.83S	2.215	0.72S	0.56S	-0.
18	4	1	1705	2.198	2.210	C.50S	0.65S	2.203	0.48S	0.33S	-0.
18	4	1	2032	2.193	2.209	C.60S	0.74S	2.204	0.66S	0.51S	-0.
18	4	1	2664	2.404	2.392	C.81F	0.49F	2.393	0.12F	0.44F	0.
18	4	1	2681	2.764	2.768	C.17F	0.15S	2.783	0.29S	0.03F	-0.
18	4	1	3059	3.121	3.128	C.06F	0.24S	3.129	0.58S	0.27S	0.
18	4	1	3282	3.376	3.371	C.42F	0.14F	3.376	0.30S	0.01S	0.
20	5	8	92	3.081	3.095	C.15S	0.45S				
20	5	8	105	3.080				3.085	0.47S	0.17S	
20	5	8	2042	2.375	2.394	C.48S	0.81S	2.393	1.31S	0.98S	0.
20	5	8	2823	2.746	2.768	C.47S	0.80S	2.766	1.05S	0.72S	-0.
25	5	8	3421	3.002	3.019	C.27S	0.58S	3.017	0.83S	0.51S	-0.
35	7	7	2034	2.485	2.514	C.83S	1.17S	2.506	1.25S	0.92S	-0.
35	7	7	2325	2.591	2.607	C.30S	0.62S	2.604	0.83S	0.51S	-0.
35	7	7	2465	2.685	2.691	C.45F	0.13F	2.677	0.04S	0.28F	-0.

Table 2-1

REV. CODE	DP	RAMP R	TON A	SYSTEM SECS CALIB.	INST. 188			INST. 189			188 D1
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	
48	11	1	1949	2.503	2.500	0.75S	1.06S	2.529	1.37S	1.04S	-0.
48	11	1	1702	2.344	2.355	0.16S	0.49S	2.356	0.86S	0.53S	0.
48	11	1	3034	2.277	2.296	0.52S	0.85S	2.298	1.27S	0.94S	0.
48	11	1	2926	2.524	2.538	0.24S	0.57S	2.543	1.05S	0.77S	0.
48	11	1	2463	2.762	2.760	0.38F	0.06F	2.767	0.51S	0.19S	0.
48	11	1	2659	3.290	3.294	0.17F	0.12S	3.308	0.84S	0.54S	0.
48	11	1	2885	4.104	4.142	0.70S	0.92S	4.146	1.24S	1.02S	0.
48	11	1	3426	7.081	7.205	1.52S	1.76S				
48	11	1	3437	7.153				7.261	1.34S	1.52S	
58	4	1	0	4.359	4.382	0.23S	0.53S	4.378	0.63S	0.44S	-0.0
58	4	1	2144	2.195	2.214	0.70S	0.85S	2.216	1.09S	0.94S	0.0
58	4	1	2285	2.203	2.209	0.12S	0.28S	2.218	0.85S	0.69S	0.4
58	4	1	3241	3.501	3.533	0.64S	0.91S	3.539	1.36S	1.09S	0.1
68	5	6	95	3.081	3.082	0.27F	0.04S				
68	5	6	2048	2.376				2.392	1.02S	0.69S	
68	5	6	2537	2.617	2.624	0.06F	0.27S	2.626	0.67S	0.34S	0.0
68	5	6	2584	2.747	2.755	0.02F	0.31S				
68	5	6	3056	2.836	2.853	0.28S	0.59S	2.853	0.91S	0.59S	-0.0
68	5	6	3179	2.858	2.859	0.27F	0.05S	2.900	0.40S	0.08S	0.0
68	5	6	3449	3.011				3.013	0.36S	0.05S	
78	7	7	2034	2.485	2.503	0.35S	0.72S	2.506	1.17S	0.84S	0.1
78	7	7	2659	2.856	2.854	0.38F	0.06F	2.855	0.29S	0.03F	0.0

Table 2-1

SER. NO.	CP	RAMP R	TDR A	SYSTEM SECS CALIB.	INST. 18A			INST. 18B			18C/DIF	
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.		
78		7	7	3054	3.198	3.214	0.19S	0.49S	3.217	0.68S	0.58S	0.0
78		7	7	3181	3.302	3.302	0.28F	0.01S	3.302	0.90S	0.01S	-0.0
81		11	1	2048	2.281				2.285	0.51S	0.18S	
88		11	1	2855	3.277	3.303	0.51S	0.80S	3.299	0.92S	0.68S	-0.1
88		11	1	2081	4.089	4.120	0.54S	0.76S				
88		11	1	3097	5.068	5.145	1.40S	1.51S	5.136	1.45S	1.34S	-0.1
90		4	1	1559	2.204	2.222	0.85S	0.81S	2.226	1.15S	0.99S	0.1
90		4	1	1898	2.198	2.210	0.45S	0.64S	2.210	0.79S	0.64S	-0.0
90		4	1	2854	2.388	2.384	0.41F	0.09F	2.392	0.58S	0.25S	0.3
95		4	1	2877	2.777	2.787	0.05S	0.37S	2.789	0.76S	0.44S	0.0
98		4	1	2972	2.950	2.947	0.42F	0.11F	2.947	0.21S	0.11F	-0.0
98		4	1	3085	3.133	3.141	0.04F	0.27S	3.140	0.54S	0.24S	-0.0
98		4	1	3173	3.387	3.365	0.35F	0.06F	3.376	0.55S	0.26S	0.3
98		4	1	3411	3.854				3.869	0.63S	0.38S	
98		4	1	3416	3.884	3.873	0.01F	0.23S				
100		5	8	95	3.081	3.099	0.04F	0.26S	3.098	0.80S	0.49S	0.2
108		5	8	1548	2.441	2.465	0.88S	0.99S	2.467	1.40S	1.07S	0.0
108		5	8	1723	2.390	2.394	0.18F	0.17S	2.403	0.87S	0.54S	0.3
108		5	8	2482	2.506	2.504	0.42F	0.09F	2.510	0.47S	0.15S	0.2
108		5	8	2704	2.647	2.645	0.48F	0.15F				
108		5	8	2942	2.777	2.778	0.28F	0.04S	2.782	0.50S	0.18S	0.1
108		5	8	3157	2.906	2.908	0.25F	0.06S	2.910	0.45S	0.13S	0.0

Table 2-1

-----INST. 188-----:-----INST. 189-----:

REF. NODE	LP	RAMP R	TOR A	SYSTEM SECS CALIB.	ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.	187/ DIFF	
108		5	8	3389	2.990	2.998	0.03F	0.28S	3.000	0.86S	0.55S	0.27
109		5	8	3479	3.021	3.018	0.49F	0.18F	3.023	0.36S	0.03S	0.21
113		4	1	89	4.340	4.355	0.14S	0.34S	4.360	0.69S	0.45S	0.11
113		4	1	1500	2.209	2.226	0.58S	0.75S	2.232	1.19S	1.02S	0.27
113		4	1	1800	2.201	2.214	0.49S	0.59S	2.219	0.97S	0.81S	0.21
113		4	1	1873	2.197	2.207	0.30S	0.45S	2.213	0.88S	0.72S	0.27
113		4	1	1970	2.192	2.208	0.58S	0.72S	2.212	1.06S	0.91S	0.11
113		4	1	2401	2.214	2.224	0.28S	0.45S	2.233	1.03S	0.86S	0.4
113		4	1	2388	2.411	2.400	0.77F	0.45F	2.406	0.13S	0.20F	0.2
113		4	1	2942	2.894	2.894	0.31F	0.01S	2.898	0.46S	0.14S	0.1
113		4	1	3077	3.157	3.160	0.20F	0.10S	3.165	0.56S	0.25S	0.1
113		4	1	3208	3.426	3.423	0.38F	0.10F	3.429	0.36S	0.07S	0.1
113		4	1	3450	3.930	3.929	0.25F	0.01F	3.938	0.45S	0.21S	0.2
120		11	1	1585	2.457	2.475	0.40S	0.73S	2.482	1.34S	1.01S	0.2
120		11	1	1713	2.334	2.342	0.01S	0.34S	2.345	0.79S	0.47S	0.1
123		11	1	2018	2.272	2.290	0.48S	0.81S	2.299	1.53S	1.20S	0.3
123		11	1	2378	2.800	2.810	0.06S	0.38S	2.817	0.96S	0.65S	0.2
123		11	1	2643	3.237	3.249	0.08S	0.37S	3.255	0.86S	0.56S	0.1
123		11	1	2913	4.215	4.248	0.57S	0.78S	4.253	1.11S	0.90S	0.1
130		4	1	95	4.337	4.376	0.89S	0.89S	4.376	1.09S	0.89S	-0.0
130		4	1	1930	2.192	2.214	0.86S	1.00S	2.211	1.01S	0.87S	-0.1
130		4	1	1998	2.192	2.212	0.75S	0.90S	2.205	0.72S	0.58S	-0.3

Table 2-1

REV. NODE	CP	RAMP N	TOR A	SYSTEM SECS CALIB.	INST. 108			INST. 109			DIFF	
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.		
138		4	1	3438	3.891	3.921	0.525	0.765	3.917	0.905	0.665	-0.1
138		4	1	3512	4.041	4.048	0.06F	0.16S	4.056	0.59S	0.36S	0.2

DEV. AND DIFF. ARE IN PERCENT
THE (-) SIGN INDICATES THAT INST 1 IS SLOWER THAN INST 2
F=FAST AND S=SLOW

Table 2-1

J-36 HIVOS TIME CORRELATION 5-5-66

REV	DAY	HR	MIN	SEC	IRIG SECONDS	CLOCK SECONDS	DELTA IRIG	DELTA CLOCK	ERROR	
0	104	8	22	50.440	5015770.440	157284.747	---	---	---	
3	104	12	36	35.470	5020995.470	172509.790	15225.030	15225.043	0.013	
5	105	15	6	32.885	5126392.885	267907.116	95397.414	95397.325	-0.089	
14	107	9	5	7.980	5277507.980	419022.180	151115.092	151115.062	-0.030	
1	107	12	31	31.370	5289891.370	421405.573	12383.390	12383.393	0.003	
3	4	8	40.530	DELTA TIME				TOTAL ACCUM. ERROR		-0.100
4	108	9	30	54.720	5365454.720	169548.754	---	---	---	
6	108	13	33	59.590	5380039.590	184133.619	14584.870	14584.865	-0.005	
9	109	9	34	56.700	5452096.700	256190.845	72057.109	72057.225	0.116	
10	109	11	4	56.830	5457496.830	261590.921	5400.130	5400.076	-0.054	
11	109	13	38	1.970	5466681.970	270776.018	9185.140	9185.097	-0.043	
13	110	8	3	12.615	5532992.615	327086.683	66310.645	66310.664	0.019	
16	110	11	3	11.960	5543791.960	347886.024	10799.345	10799.341	-0.004	
2	1	32	17.240	DELTA TIME				TOTAL ACCUM. ERROR		0.030

Table 2-2

SECTION 3

FLIGHT OPERATIONS

A. SUMMARY

All launch, ascent and injection events occurred as programmed to achieve orbit. The period was 0.2 minutes low from predicted and slightly below 3 sigma tolerance.

Both panoramic instruments operated properly throughout the flight. The cycle rates were 3.5% slow from preflight calibrations but the instruments were matched within 0.75% of the same rate. The V/H programmer failed on orbit 156 descending or 157 ascending, however this was after the completion of the active mission.

The -1 and -2 Stellar/Index cameras, the clock, and the command system operated properly throughout the flight. Early A to B transfer was successfully executed during acquisition at [REDACTED] on orbit 72. The pressure make-up system operated properly with 490 PSI supply remaining at Event 2.

The instrumentation system performed properly throughout the flight except for Channels 18 and F Link 2 on ascent and Channel 13 on later orbits.

Both recovery systems operated properly during recovery of each capsule. The -2 telemetry battery spilled electrolyte into the recovery capsule.

B. PANORAMIC CAMERA SYSTEM PERFORMANCE

The camera system dynamics were normal on all engineering operations observed during the mission. The film transport system operation was smooth and produced 99/101 ratios of 6/6 to 7/6 for both instruments. Cycle rate data (Table 3-1) was 0.5 to 3.5% slow compared to preflight calibrations with a typical error of 1.6% slow. The individual instrument rates matched generally to less than 0.5%. Early A to B transfer, (KZ-38 command) was issued on orbit 72 at the [REDACTED] the A to B transfer was observed via microwave in real time. All events associated with the command occurred properly.

Panoramic Film Consumption

	<u>Actual</u>	
	<u>Master</u>	<u>Slave</u>
Pre-Launch	126	127
- 1 Mission	2846	2867
- 2 Mission	3073	3057
	<hr/>	<hr/>
Total	6045	6051

FMC Match

The V/H ramp to orbit match was acceptable throughout the flight. The following settings of RTC 6, 8, and 10 were used to attain the best match during the mission:

RTC	<u>6</u>	<u>8</u>	<u>10</u>	<u>Remarks</u>
	8	3	6	Best settings for nominal orbit.
	7	3	5	Changed at Rev. 6. To compensate for orbit dispersions at launch.
	8	2	5	Changed at Rev. 12. Additional orbital data permitted improved ramp selection.
	8	2	6	Changed at Rev. 76. To compensate for normal orbit decay.
	7	3	6	Changed at Rev. 107. To compensate for normal orbit decay.

The V/H Programmer failed either on orbit 156 descending or 157 ascending. The start commands stepped through properly and 400 cycle voltage was present at the OSFG. The main instruments indicated the failure was located in the programmer. The programmer stopped at either 1000 seconds or 2800 seconds. This position of the programmer produced an output voltage level approximating the

reference level. The programmer did not operate again. The most probable point of failure was at the 2800 second point (Ref. Figure 3-1). This is near the time that S-202 closes (approximately 2500 seconds) and resets the start relay K-201. This condition indicates that S-201 failed to close at the proper time (near 400 seconds into the cycle). The failure indications were identical to the failure experienced on J-32 (Mission 1036). The programmer serial numbers were VP43 and VP44 for J-32 and J-36 respectively. Boston ran a complete qualification test on a programmer and ran another programmer to failure.

Yaw Programmer Performance

This yaw programmer was the fifth to be flown on the Corona J Program and was the first of a new design. The programmer was enabled on orbit 1 at [REDACTED] and remained enabled throughout the flight. A 100 second disable - enable test was conducted on orbit 8 at [REDACTED]. The test indicated proper phasing of the programmer output. Telemetry indicated proper phasing and output on all acquisitions during the flight. It has been noted however, that there is a time delay of approximately 6 minutes in operate from command. This causes an incorrect yaw correction for the vehicle latitude position. This has been corrected on Mission 1041.

C. STELLAR/INDEX CAMERA PERFORMANCE

The -1 Stellar/Index camera operation was normal throughout the mission with telemetry indicating proper shutter, meter, and programmer functions.

The -2 Stellar/Index operation was normal throughout the mission. Telemetry indicated proper shutter, meter, programmer and slewing functions.

D. INSTRUMENTATION AND COMMAND SYSTEM PERFORMANCE

The instrumentation system operated properly throughout the mission with two exceptions:

1. Link II Telemetry data during launch was not recorded at the [REDACTED] or STC.

2. Link I Channel 13 VCO (AP Status) clipped voltages above 4 volts from orbit 121 for the remainder of the mission.

Link II was reported by voice to be acquired during ascent but telemetry tapes from the [REDACTED] and STC did not contain any voltage control oscillator (VCO) data.

The VCO of Link I Channel 13 began clipping during orbit 121. The data below the clipping level remained linear when 4 volts was used as a calibrate level. The clipping level became lower with Link I operating time per rev. The lowest levels of the clipping reached 80% toward the end of the mission. This did not severely hamper command verification but some orbit command verification was obtained from the Link II back-up Channel 12-2-00.

The command system operated properly throughout the mission and was the first system with the new operations selection control and the real time early A to B transfer capability.

Clock System Performance

The payload clock system performed satisfactorily throughout the mission. The clock/system time correlation data obtained from the [REDACTED] acquisitions are included in Table 3-2.

Pressure Make-up System Performance

The pressure make-up system operated satisfactorily throughout the mission. The mission consumed 2035 PSIA supply pressure for a duration of 234 minutes of operate time. This resulted in an average supply consumption of 8.65 PSIA/minute of operate. This system had temperature sensors mounted on the supply bottle. A plot of temperatures vs. orbit is included as Figure 3-5. Figure 3-6 describes the PMU supply pressure vs. operate time. Two points are included for each acquisition, one the uncorrected pressure indication and the second pressure corrected to 70°F.

Thermal Environment

Temperature data obtained from [REDACTED] acquisitions are contained in Table 3-3. Average master instrument temperatures started with a

high of 85°F and ended with a low of 69°F. The Slave instrument temperatures started with a high of 82°F and ended with a low of 67°F. Specific plots of temperature vs. Beta angle are included as Figure 3-2, 3-3 and 3-4.

This system was equipped with the high range fairing temperature sensors and was to be played out on Link II. As noted earlier, Link II was not recorded on ascent.

J-36 188/189 FLIGHT MISSION

REV. CP MODE	RAMP R	TOR A	SEC SECS	CALIB. CALIB.	INST. 188			INST. 189			188 DI	
					ACTUAL	UNIT DEV.	SYSTEM DEV.	ACTUAL	UNIT DEV.	SYSTEM DEV.		
08	A	7	3	100	4.714	4.740	0.39S	0.54S	4.745	0.80S	0.65S	0.
16	A	8	2	1709	2.235	2.247	2.10S	2.35S	2.282	2.32S	2.12S	-0.
31	A	8	2	1785	2.230	2.215	1.35S	1.58S	2.260	1.54S	1.35S	-0.
47	A	8	2	1840	2.228	2.212	1.80S	1.99S	2.265	1.86S	1.67S	-0.
63	A	8	2	1920	2.220	2.210	2.07S	2.85S	2.270	2.14S	1.96S	-0.
79	B	8	2	1925	2.220	2.307	3.43S	3.62S	2.300	3.49S	3.30S	-0.
110	B	7	3	2005	2.225	2.270	1.82S	2.00S	2.282	2.73S	2.54S	0.
126	B	7	3	2060	2.227	2.245	0.62S	0.80S	2.255	1.44S	1.25S	0.
142	B	7	3	2120	2.230	2.270	1.01S	1.80S	2.265	1.76S	1.57S	-0.

DEV. AND DIFF. ARE IN PERCENT
THE (-) SIGN INDICATES THAT INST 1 IS SLOWER THAN INST 2
F=FAST AND S=SLOW

Table 3-1

CLOCK CORRELATION SUMMARY

ORDER	FIT	TIME	SYS TIME 1/P	CL TIME 1/P	COMP SYS TM	DELTA ST	REV	STA
0.3747088900	05	0.2123414290	06	0.3747088710	05	0.0029	9	
0.7728581200	05	0.2521563550	06	0.7728581040	05	0.0016	16	
0.3278856800	05	0.2940591200	06	0.3278857250	05	-0.0045	24	
0.7265624000	05	0.3339267910	06	0.7265624080	05	-0.0008	31	
0.3352693800	05	0.3811974880	06	0.3352693460	05	0.0034	40	
0.7330873800	05	0.4209792950	06	0.7330873890	05	-0.0009	47	
0.2904784300	05	0.4631184040	06	0.2904784500	05	-0.0020	55	
0.7407329700	05	0.5081438600	06	0.7407329790	05	-0.0009	63	
0.2954954300	05	0.1314919200	05	0.2954953910	05	0.0039	71	
0.7473963000	05	0.5823929100	05	0.7473963500	05	-0.0050	79	
0.3013760500	05	0.1001372580	06	0.3013759910	05	0.0059	87	
0.7556037000	05	0.1455600410	06	0.7556037900	05	-0.0090	95	
0.3101389100	05	0.1874135540	06	0.3101388920	05	0.0018	103	
0.7054631100	05	0.2269459770	06	0.7054630950	05	0.0015	110	
0.3135335400	05	0.2741530230	06	0.3135335230	05	0.0017	119	
0.7666045300	05	0.3194601260	06	0.7666045220	05	0.0008	127	
0.3191638100	05	0.3611160580	06	0.3191638130	05	-0.0003	135	
0.7159899000	05	0.4007986700	06	0.7159899060	05	-0.0006	142	
0.3244785800	05	0.4480475400	06	0.3244785740	05	0.0006	151	

AO=-0.17487052740 06 AI= 0.9999999317440 00

SIGMA=0.00329 NO. POINTS= 19

RATIO OF CLOCK TIME TO SYS TIME= 0.1000000068260 01

CLOCK CORRELATION SUMMARY

ORDER	FIT	TIME	SYS TIME 1/P	CL TIME 1/P	COMP SYS TM	DELTA ST	REV	STA
0.3747088900	05	0.2123414290	06	0.3747088790	05	0.0021	9	
0.7728581200	05	0.2521563550	06	0.7728581090	05	0.0011	16	
0.3278856800	05	0.2940591200	06	0.3278857280	05	-0.0048	24	
0.7265624000	05	0.3339267910	06	0.7265624090	05	-0.0009	31	
0.3352693800	05	0.3811974880	06	0.3352693450	05	0.0035	40	
0.7330873800	05	0.4209792950	06	0.7330873870	05	-0.0007	47	
0.2904784300	05	0.4631184040	06	0.2904784470	05	-0.0017	55	
0.7407329700	05	0.5081438600	06	0.7407329750	05	-0.0005	63	
0.2954954300	05	0.1314919200	05	0.2954953860	05	0.0044	71	
0.7473963000	05	0.5823929100	05	0.7473963450	05	-0.0045	79	
0.3013760500	05	0.1001372580	06	0.3013759870	05	0.0063	87	
0.7556037000	05	0.1455600410	06	0.7556037860	05	-0.0086	95	
0.3101389100	05	0.1874135540	06	0.3101388890	05	0.0021	103	
0.7054631100	05	0.2269459770	06	0.7054630930	05	0.0017	110	
0.3135335400	05	0.2741530230	06	0.3135335220	05	0.0018	119	
0.7666045300	05	0.3194601260	06	0.7666045230	05	0.0007	127	
0.3191638100	05	0.3611160580	06	0.3191638160	05	-0.0006	135	
0.7159899000	05	0.4007986700	06	0.7159899110	05	-0.0011	142	
0.3244785800	05	0.4480475400	06	0.3244785820	05	-0.0002	151	

AO=-0.17487052490 06 AI= 0.9559999215480 00

AZ= 0.82093015572340-14

SIGMA=0.00326 NO. POINTS= 19

Table 3-2

TABLE 3-3

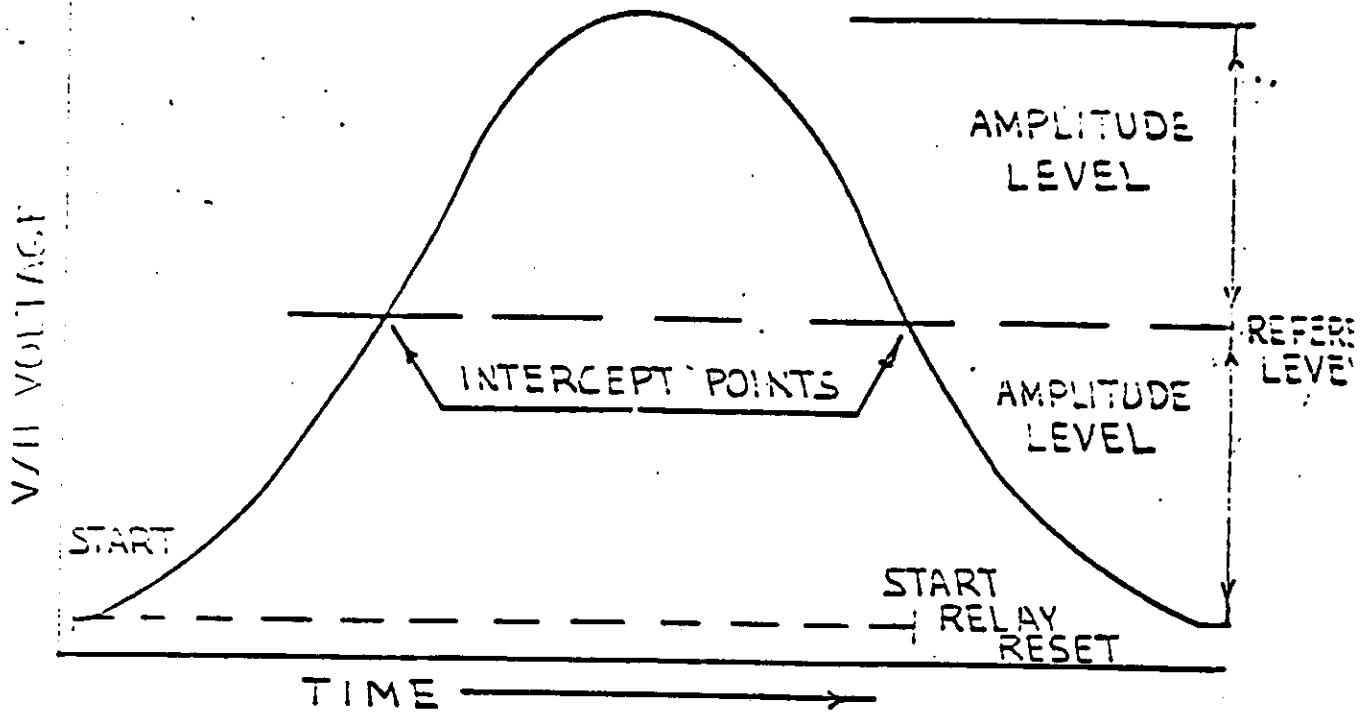
J-36 TEMPERATURE SUMMARY

SENSOR		ORBITS ACQUIRED																	
Master Camera																			
		8	16	24	31	40	47	55	63	71	A	B	95	103	110	119	127	135	142
3	79	74	78	75	78	75	78	74	75	74	72	67	70	67	69	67	69	64	68
4	83	76	73	77	73	78	81	76	79	77	77	70	75	70	74	69	74	68	72
5	88	83	87	82	87	83	86	81	83	81	80	75	79	74	78	73	78	71	74
6	89	84	86	84	85	85	84	82	82	83	78	75	76	75	75	72	73	71	72
7	84	81	84	81	83	81	82	80	80	80	76	73	74	72	72	72	72	70	70
8	89	83	87	82	87	82	86	82	84	81	81	75	79	75	79	73	78	73	76
9	90	84	88	82	88	82	86	82	84	81	82	76	79	74	78	72	78	72	75
11	80	77	86	80	85	81	83	76	80	78	77	72	74	71	74	69	73	67	70
12	82	75	82	76	82	77	81	76	79	76	77	70	75	70	75	69	74	69	73
13	85	81	83	82	82	81	82	80	79	79	76	72	73	72	72	70	70	68	69
AVG	85	80	85	80	84	80	83	79	80	79	78	73	75	72	75	71	74	69	72
Master Slave		-1 PHASE									-2 PHASE								
3	82	79	82	79	81	78	80	77	77	77	75	70	71	68	69	66	68	65	66
4	81	75	79	75	80	75	79	74	76	74	75	67	71	65	70	64	70	63	66
5	84	78	83	79	83	80	82	79	80	78	77	71	74	71	74	71	73	70	71
6	82	78	81	79	81	79	81	79	78	79	75	72	72	71	72	69	72	69	70
7	84	81	83	82	83	81	82	82	81	81	77	74	75	74	74	71	73	71	71
8	84	78	84	78	83	79	83	78	80	78	78	72	75	71	75	69	74	69	72
9	84	78	84	79	84	80	83	79	81	78	78	73	76	73	77	72	76	71	75
11	76	74	76	73	76	73	75	76	73	74	70	67	78	65	67	64	67	64	65
12	86	80	85	80	86	80	84	79	81	78	80	72	76	71	76	69	75	68	72
13	74	73	73	72	75	73	73	74	71	74	67	66	65	64	64	63	63	62	61
AVG	82	78	82	78	81	78	80	78	78	77	75	70	72	69	72	68	71	67	69
Supply																			
1	70	67	71	68	72	70	72	71	70	70	68	64	65	62	64	62	64	61	62
2	74	69	74	70	75	70	74	70	71	69	68	62	64	60	63	60	63	58	60

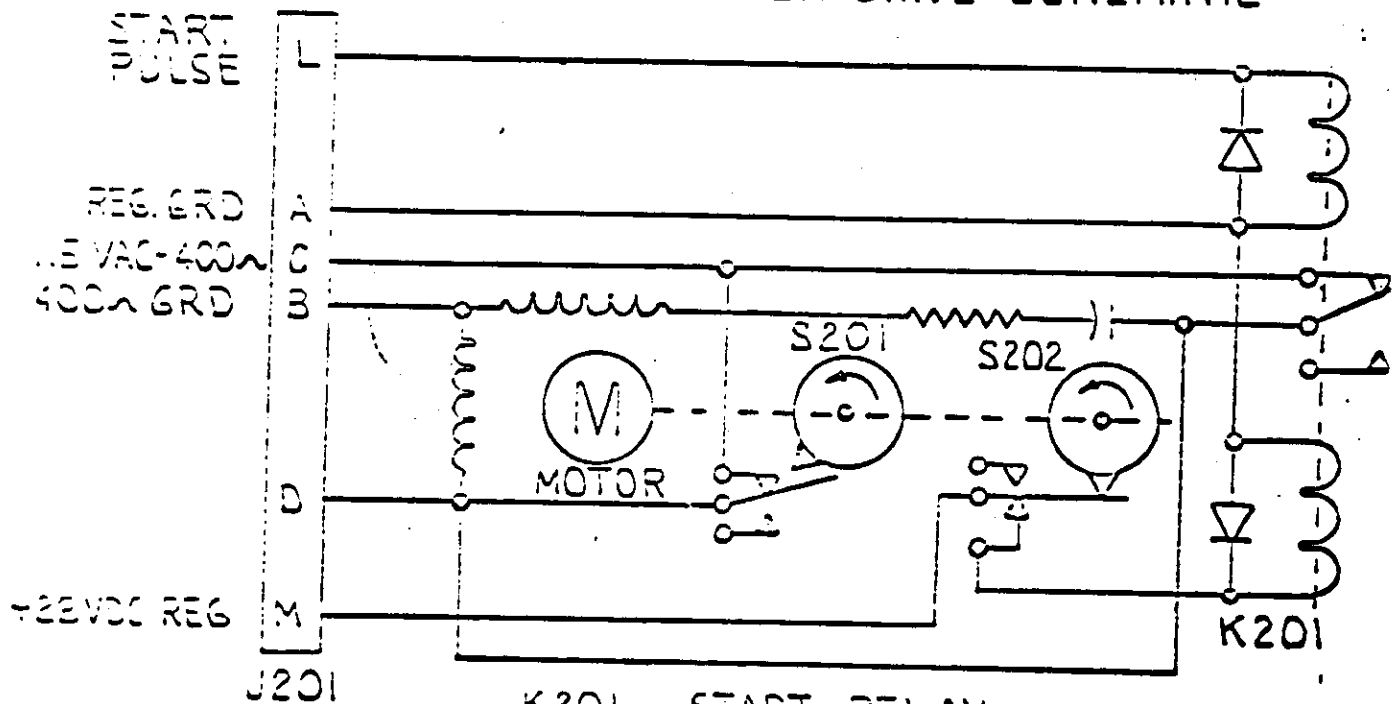
TABLE 3-3
J-36 TEMPERATURE SUMMARY

SENSOR	ORBITS ACQUIRED																					
	Fair ("A")									ORBITS ACQUIRED												
Parrel #1 ("B")	8	16	24	31	40	47	55	63	71	A	B	79	87	95	103	110	119	127	135	142	1	
1	25	40	40	40	40	18	25	40	9	33	22	32	19	35	19	32	22	25				
2	OEL	OEL	10	0	13	-5	06	--	13	-9	66	56	56	60	60	56	66	74				
3	OEL	OEL	-15	0	-9	-27	-9	--	-1	-16	82	118	70	118	73	106	82	115				
4	44	30	44	37	44	37	37	44	44	44	45	69	36	63	36	57	39	51				
5	53	46	53	46	59	46	46	46	53	39	39	45	33	42	33	39	36	30				
6	49	56	56	56	56	42	49	49	56	42	--	--	--	--	--	--	--	--				
<u>Parrel #2</u>																						
1	44	53	47	53	47	50	40	50	37	47	34	37	27	34	27	30	27	20				
2	41	80	49	77	49	61	41	69	35	66	41	63	29	58	32	46	35	46				
3	66	110	74	110	74	86	69	110	63	110	72	104	63	107	66	89	72	101				
4	58	52	62	55	65	52	62	58	62	62	62	52	55	58	58	52	62	55				
5	56	56	59	59	62	59	59	65	56	65	42	46	36	49	39	42	39	39				
<u>Cabin Airflow</u>																						
1	54	51	60	51	60	51	51	48	48	48	45	32	35	29	35	26	35	20				
<u>Pass. Mixture Bottle</u>																						
1	105	94	105	91	105	88	97	86	91	88	94	80	88	77	85	77	85	70				
2	101	90	101	90	98	87	93	64	87	84	87	75	84	72	81	69	78	63				
<u>Clock</u>																						
1	79	72	81	77	81	77	77	77	77	77	70	64	68	64	66	62	66	57				
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
<u>Thrust Cams "A" to "B"</u>																						
1 (Spin)	42	34	37	33	38	33	37	33	36	34	60	56	58	56	58	55	57	52				
2 (Retro)	61	52	56	49	54	50	54	49	50	77	73	70	70	68	68	68	68	65				
<u>Master Cassette "A" SRV</u>																						
2	69	66	68	66	68	67	69	67	67	67	--	--	--	--	--	--	--	--				
<u>Recovery Para. "B" SRV</u>																						
1	67	64	65	64	65	64	65	64	63	65	75	73	81	82	86	82	77	84				

V/H PROGRAMMER VOLTAGE PROFILE



V/H PROGRAMMER DRIVE SCHEMATIC

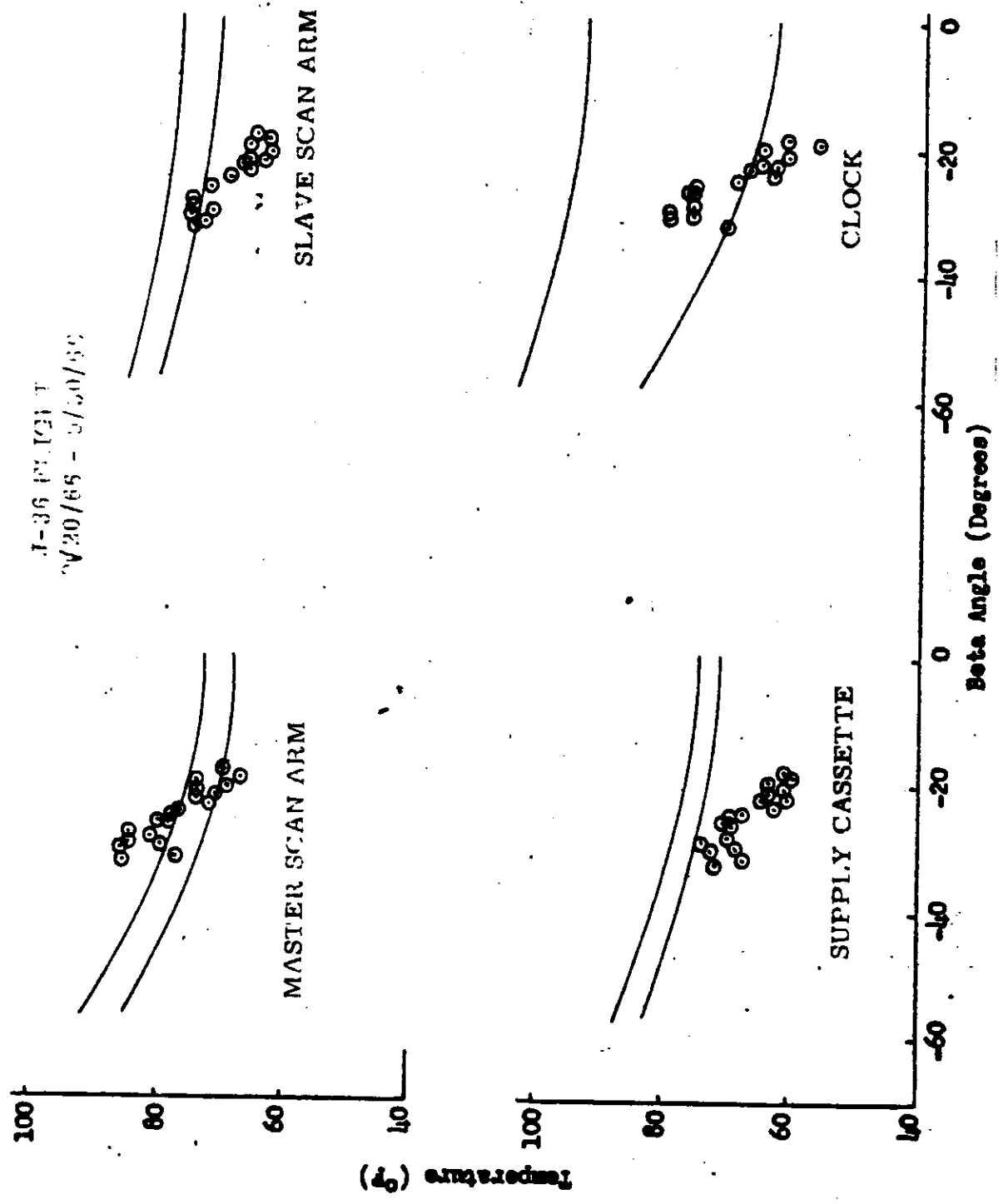


- K201 START RELAY
- S201 SELF ENERGIZE SWITCH
- S202 START RELAY RESET SWITCH

Figure 3-1

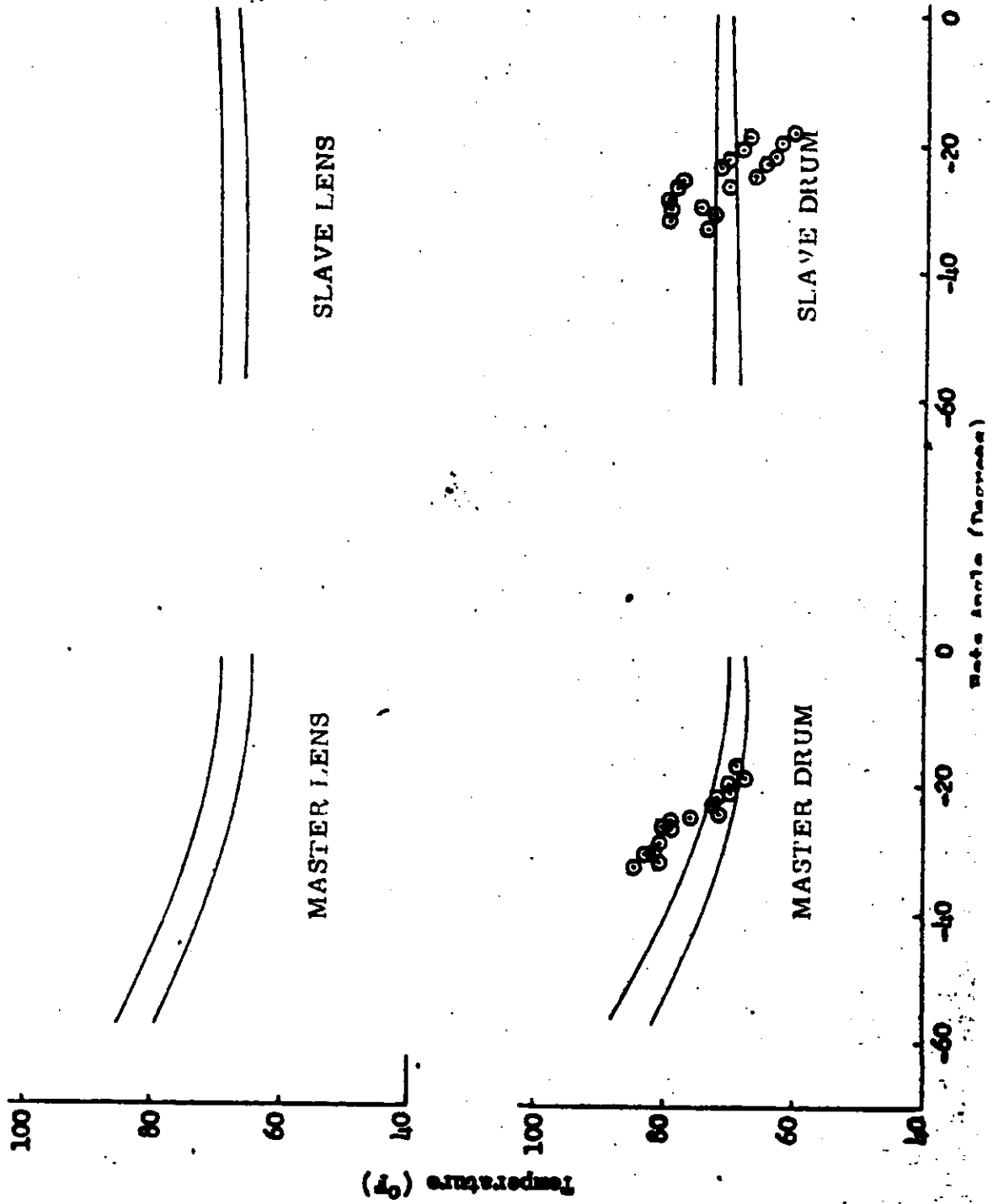
TOP SECRET NO. [REDACTED]

J-36 FLIGHT
20/65 - 5/50/55



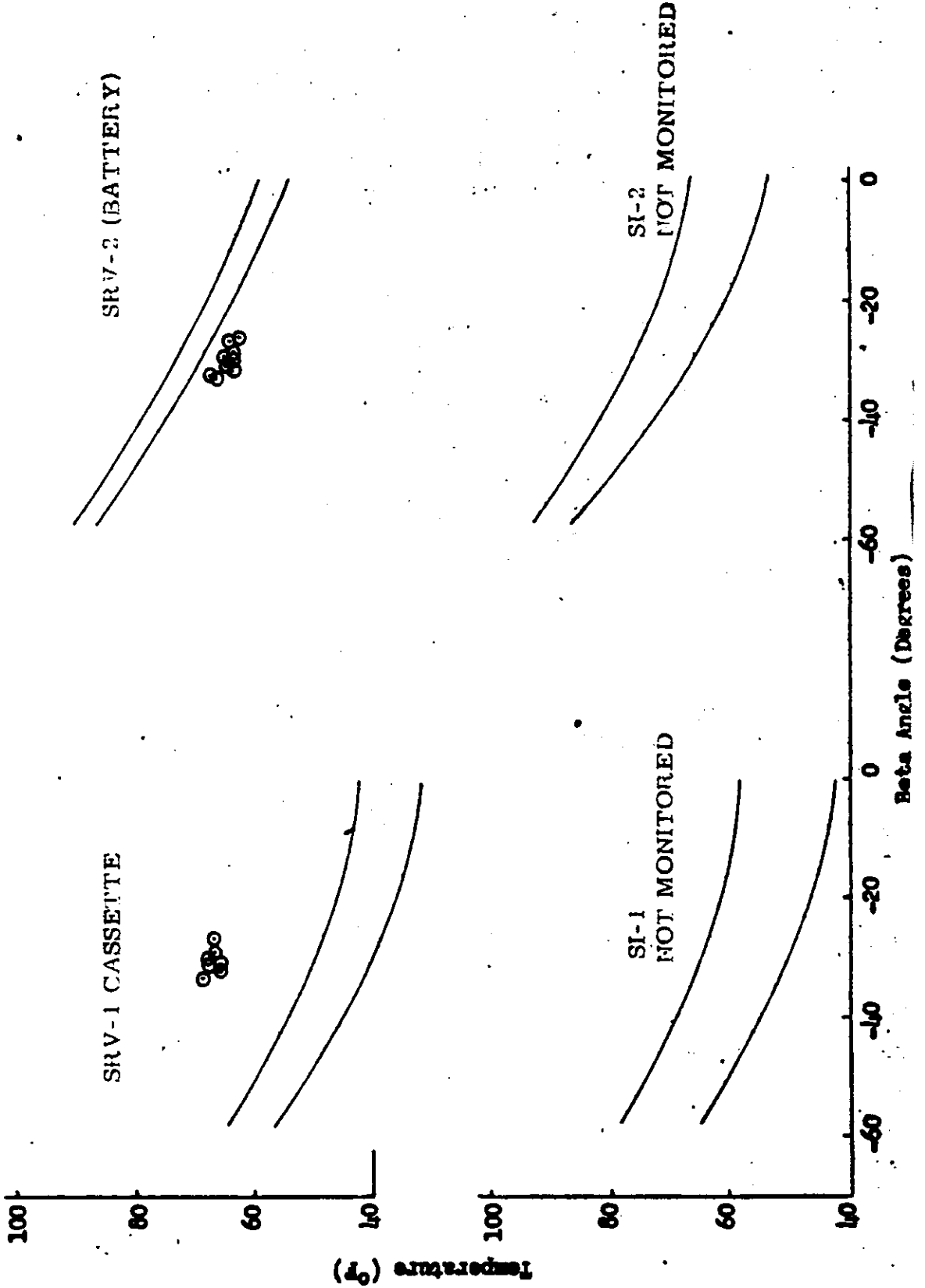
~~SECRET~~ BY C/ [REDACTED]
NO. [REDACTED]

J-36 FLICHI
9/20/68-9/20/68



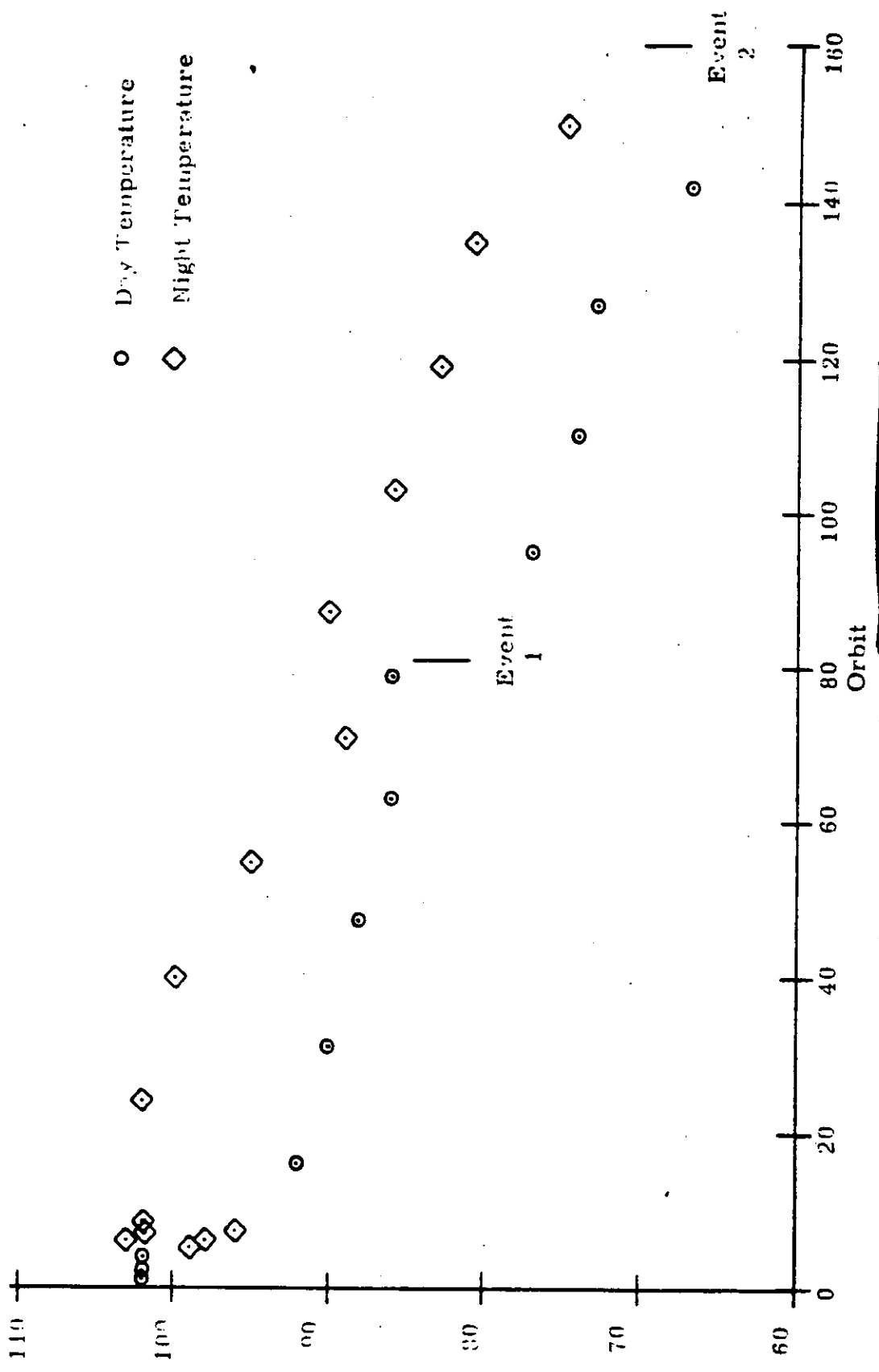
TOP SECRET
NO.

SRV-1 BATTERY
9/20/68 - 9/20/69



TOP SECRET C/ [REDACTED]
NO. [REDACTED]

PERIODIC WATER USE, C. 1964
TEMPERATURE

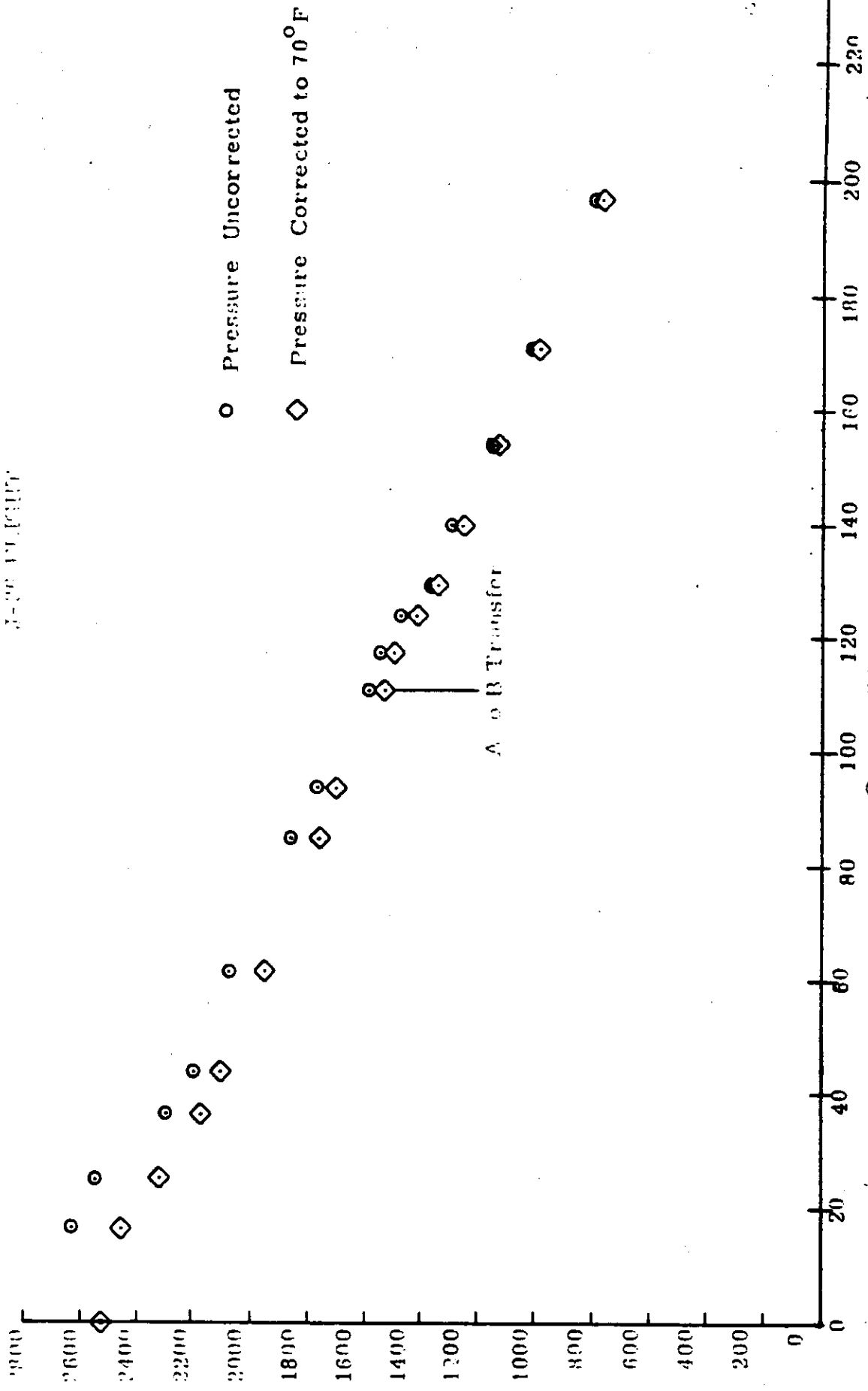


TOP SECRET C/ [REDACTED]

~~TOP SECRET~~ [REDACTED] NO.

PMU PRESSURE VS. OPERATE TIME

3-500 PLUMPT



Operate Time - Minutes

~~TOP SECRET C~~ [REDACTED]

SECTION 4

MISSION 1035-1 RECOVERY SYSTEM

SRV #723 was received at A/P on 4 January 1966. The receiving weight was 153.50 pounds. After modifications and incorporation of outstanding E. O. 's, the SRV was delivered to Systems Test for incorporation into the J-36 system.

The capsule was shipped to VAFB on 21 June 1966.

The -1 recovery system was successfully recovered by air catch from orbit 81 at 1719 PDT on 25 September 1966. The impact point was as follows:

Predicted Impact	$24^{\circ}-32'N/166^{\circ}-30'W$
Actual Impact	$24^{\circ}-27'N/166^{\circ}-31'W$

The condition of the recovered capsule was satisfactory with no damage other than normal paint blistering due to the re-entry environment.

Event times are shown in Table 4-1.

MISSION 1035-1

RECOVERY SEQUENCE OF EVENTS

<u>Event</u>	Delta Time (Seconds)	
	<u>Actual</u>	<u>Nominal</u>
* Arm	76.90	77.0 \pm 1.0
* Transfer	2.00	2.0 \pm 0.25
Electrical Disconnect	0.81	0.900 \pm 0.430 - 0.400
Separation	--	--
** Spin	3.38	3.4 \pm 0.30
Retro	7.23	7.55 \pm 0.45
Despin	10.56	10.75 \pm 0.59
T/C Separation	1.50	1.5 \pm 0.15
*** "G" Switch Open	496.49	497.7
Parachute Cover Off	33.99	34.0 \pm 1.5
Drogue Chute Deployed	0.66	0.63 \pm 0.08
Main Chute Bag Separate	12.10	10.0 \pm 3.0 - 2.2
Main Chute Deployed	0.58	0.52 \pm 0.13
Main Chute Disreef	4.33	4.5 \pm 0.80

- * From Separation
- ** From Electrical Disconnect
- *** From Retro
- Spin Rate (RPM) 61.0
- Despin Rate (RPM) 8.5
- Retro Velocity (Ft/Sec.) 1016

TABLE 4-1

SECTION 5

MISSION 1035-2 RECOVERY SYSTEM

SRV #724 was received at A/P on 4 January 1966. The receiving weight was 152.75 pounds. After modifications and incorporation of outstanding E. O. 's the unit was delivered to Systems Test for mating to the J-30 system.

The capsule was shipped to VAFB on 21 June 1966.

The -2 recovery system was successfully recovered by air catch from orbit 160 at 1641 PDT on 30 September 1966. The impact point was as follows:

Predicted Impact	24°-05'N/164°-17'W
Actual Impact	23°-50'N/164°-22'W

Event times are shown in Table 5-1.

Post flight inspection of the -2 recovery system revealed that the T/M battery spilled electrolyte into the recovery capsule. The electrolyte was blown through the vent valve. The fix of adding a vent valve storage tube has been issued for all further T/M batteries and is incorporated into the next flight units.

MISSION 1035-2

RECOVERY SEQUENCE OF EVENTS

<u>Event</u>	<u>Delta Time (Seconds)</u>	
	<u>Actual</u>	<u>Nominal</u>
* Arm	76.48	77.0 <u>+ 1.0</u>
Transfer	2.00	2.0 <u>+ 0.25</u>
Electrical Disconnect	0.80	0.900 ^{+0.430} _{-0.400}
Separation	--	---
** Spin	3.33	3.4 <u>+ 0.30</u>
Retro	7.40	7.55 <u>+ 0.45</u>
Despin	10.61	10.75 <u>+ 0.59</u>
T/C Separation	1.44	1.5 <u>+ 0.15</u>
*** "G" Switch Open	539.0	536.6
Parachute Cover Off	34.22	34.0 <u>+ 1.5</u>
Drogue Chute Deployed	0.46	0.63 <u>+ 0.08</u>
Main Chute Bag Separate	11.60	10.0 ^{+3.0} _{-2.2}
Main Chute Deployed	0.59	0.52 <u>+ 0.13</u>
Main Chute Disreef	4.07	4.45 <u>+ 0.80</u>

- * From Separation
- ** From Electrical Disconnect
- *** From Retro
- Spin Rate (RPM) 61.2
- Despin Rate (RPM) 11.1
- Retro Velocity (Ft/Sec.) 1040

Table 5-1

SECTION 6

MISSION 1035 PANORAMIC CAMERAS

A. COMPONENT ASSIGNMENT

<u>Component</u>	<u>Master (Fwd) Serial Number</u>	<u>Slave (Aft.) Serial Number</u>
Main Camera	188	189
Main Camera Lens	2072435	2122435
Supply Horizon Camera	289G6H	298G6H
Supply Horizon Camera Lens	E12888	E12835
Take-up Horizon Camera	296-G5H	299G5H
Take-up Horizon Camera Lens	E12898	E12887
Supply Cassette	SC-40	SC-40

B. CAMERA DATA AND FLIGHT SETTINGS

Main Camera:

Lens	24" f/3.5	24" f/3.5
Slit Width	0.225"	0.175
Filter Type	Wratten 23A	Wratten 21
Film Type (Eastman)	3404	3404

Supply Horizon Cameras:

	<u>Port</u>	<u>Stbrd.</u>
Lens	55 mm f/6.3	55 mm f/6
Aperture Setting	f/6.3	f/8.0
Exposure Time	1/100 second	1/100 sec
Filter Type	Wratten 25	Wratten 21

Take-up Horizon Cameras:

	<u>Stbrd.</u>	<u>Port</u>
Lens	55 mm f/6.3	55 mm f/6
Aperture Setting	f/8.0	f/6.3
Exposure Time	1/100 second	1/100 sec
Filter Type	Wratten 25	Wratten 21

C. POST FLIGHT PERFORMANCE EVALUATION

The image quality on both missions was excellent. The MIP rating was 85. The high quality is due in part to the unusually clear atmospheric conditions as noted in a cloud cover analysis from the index camera photography. The use of the yaw programmer, first in over a year, provided an improved image motion compensation.

The aft-looking camera photography produced imagery of better detail than the forward looking camera. This same quality relationship has been observed on most missions and it is attributed to the forward looking camera being pointed toward the sub solar point which results in more haze light striking the camera. As a result of this haze light a filter with a higher film - filter factor is used on the forward camera, which requires a longer exposure time.

The horizon camera photography was not veiled, however slight overexposure was reported on the sun side cameras.

Several minor areas of light leak fog were observed on both pan films during inactive periods. This is the first system incorporating improved main camera seals and it is noted that the magnitude of the light leaks was less than generally experienced.

The last few feet of -2 pan film was contaminated by spilled electrolyte from the recovery battery. A new vent device will be incorporated on future missions to prevent the condition.

Mission 1035 is the first "J" system flown with the photogrammetric configuration. The rail hole images and lens scan lines produced by both cameras showed some defects but in general were equivalent to pre-flight test results and provided adequate photogrammetric data points.

Of the 73 programmed dots along each format edge, one dot on each edge was not detected on the master and all the dots on the slave were recorded. As the mission progressed several dots failed to record. These failures are attributed to micro particles of emulsion from the rail surfaces filling the holes.

The nod of traces on the master camera failed to appear occasionally and there were instances of the traces starting after the beginning of the scan.

Both cameras produced random instances of undulating traces. This condition was noted in pre-flight test and are attributed to the operation of the lens to stove interlock and some imbalance of the main lens and collimator assemblies. These conditions are to be improved on future PG systems. The nodal traces do not obscure terrain detail as much as had been anticipated.

SECTION 7

MISSION 1035- STELLAR-INDEX CAMERAS

A. COMPONENT ASSIGNMENT

<u>Component</u>	<u>-1 Mission Serial Number</u>	<u>-2 Mission Serial Number</u>
Camera	D-95	D-96
Index Reseau	112	101
Stellar Reseau	113	116

B. CAMERA DATA AND FLIGHT SETTINGS

Stellar Camera:

Lens	85 mm f/1.8	85 mm f/1.8
Exposure Time	2 seconds	2 seconds
Filter Type	None	None
Film Type (Eastman)	3401	3401

Index Camera:

Lens	38 mm f/4.5	38 mm f/4.5
Exposure Time	1/500 second	1/500 second
Filter Type	Wratten 21	Wratten 21
Film Type (Eastman)	3400	3400

C. POST FLIGHT PERFORMANCE EVALUATION

The -1 S/I unit produced 435 frames on each camera. The index imagery was excellent. The stellar formats contained at least 15 stars per exposure. Light flare in the stellar formats was minimal. The plus density streaks that are being called "jettisoned fuel particles" were more frequent than usual.

The streaked timing pulse on the -1 slave film and the 26 unprogrammed S/I exposures reported after the master camera off command are the normal result of a new arrangement which switches control from the master to the slave when only the slave is operating. This operation will be normal on future "J-1" missions.

The -2 stellar and index cameras each produced 475 frames. Each stellar frame contained at least 15 star images for vehicle attitude determination. Earth flare was at a minimum. A small foreign particle was located on the backside of the roseau plate on both stellar cameras causing a focal out of focus condition.

SECTION 8

PANORAMIC CAMERA EXPOSURE

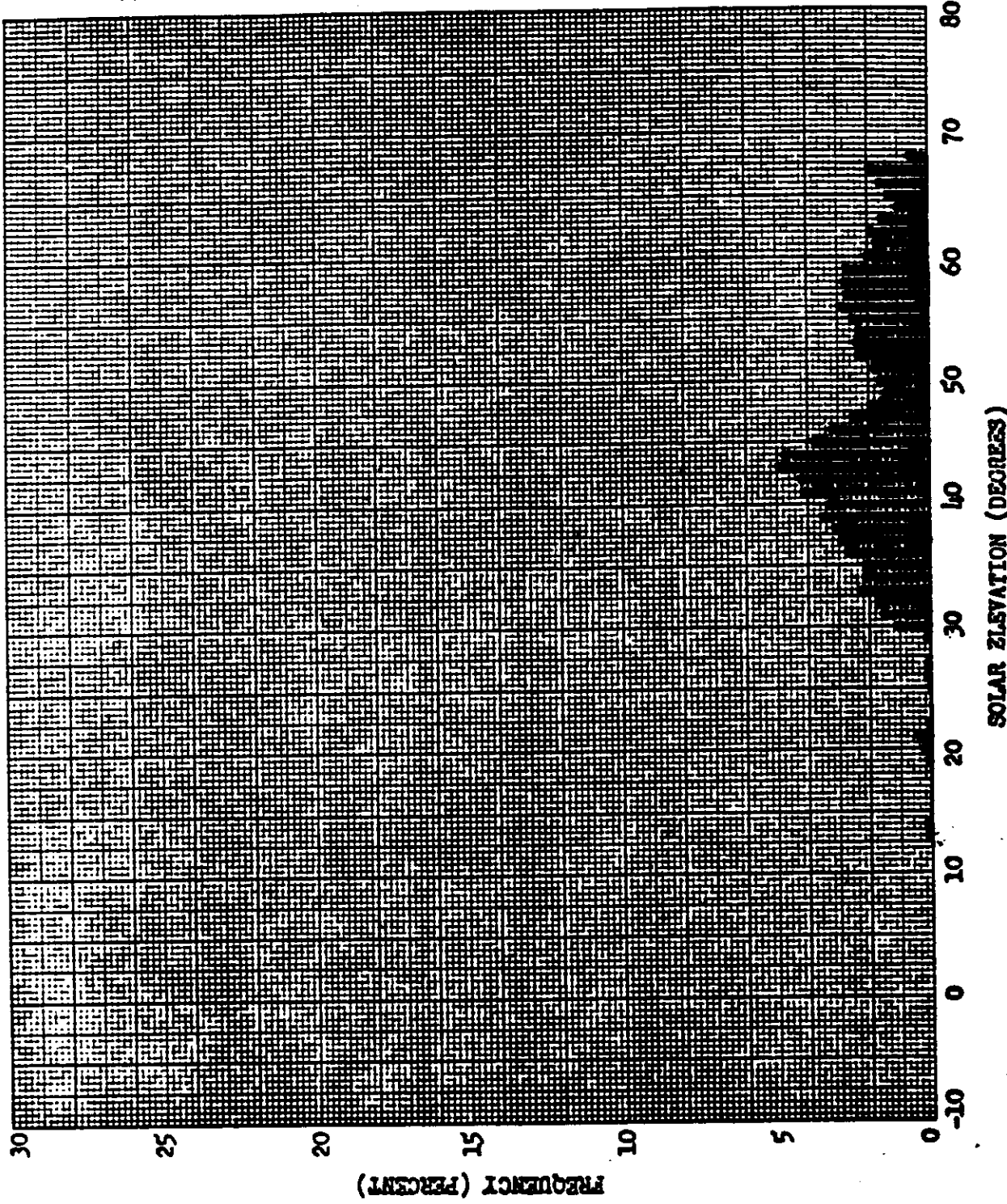
The Master camera contained a 0.225 inch slit and a Wratten 23A filter. The Slave camera had a 0.175 inch slit and a Wratten 21 filter. These conditions placed the nominal exposure between the full and intermediate processing curve.

The frequency distributions of the solar elevations and solar azimuths encountered during the photographic operations are shown in Figures 8-1 to 8-4.

The nominal exposure times of the Master and Slave cameras are shown as a function of latitude for passes D-8, D-56, D-104 and D-152 in Figures 8-5 to 8-12. The predicted level of processing for the original negative is based on the in-flight performance estimate and is tabulated below with the processing levels reported by

<u>Mission</u>	<u>Camera</u>		<u>% Primary</u>	<u>% Intermediate</u>	<u>% Full</u>
1035-1	FWD	Predicted	0	17	83
		Reported	0	11	89
1035-1	AFT	Predicted	0	5	95
		Reported	1	14	85
1035-2	FWD	Predicted	0	22	78
		Reported	4	18	78
1035-2	AFT	Predicted	0	23	77
		Reported	0	12	88

SOLAR ELEVATION FREQUENCY DISTRIBUTION



Mission No: 1015-1

Payload No: J-36

Camera No: 186

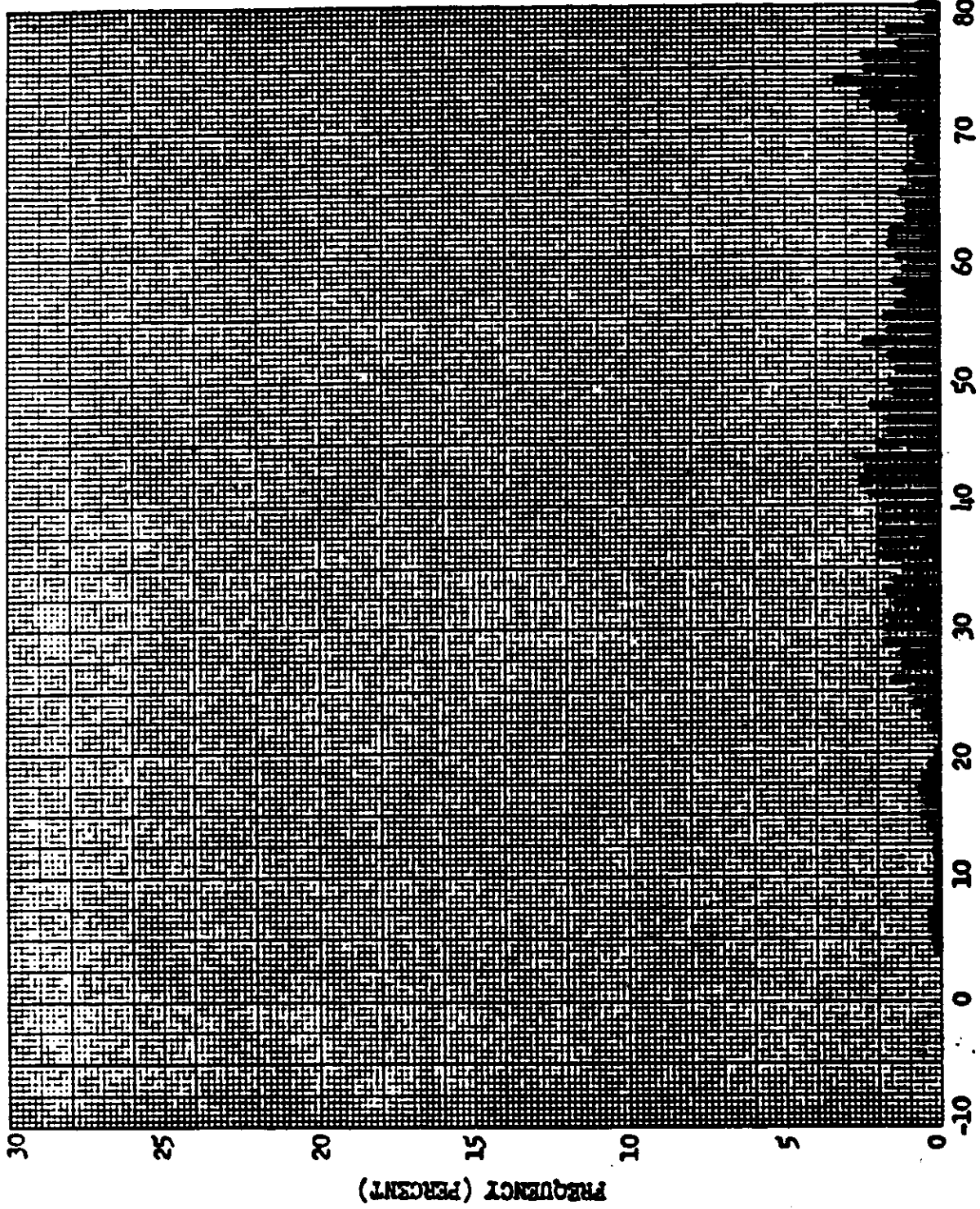
Launch Date: 9/20/66

Launch Time: 2114 Z

Inclination: 85°



SOLAR ELEVATION FREQUENCY DISTRIBUTION



Mission No: 1035-2

Payload No: J-36

Camera No: 188

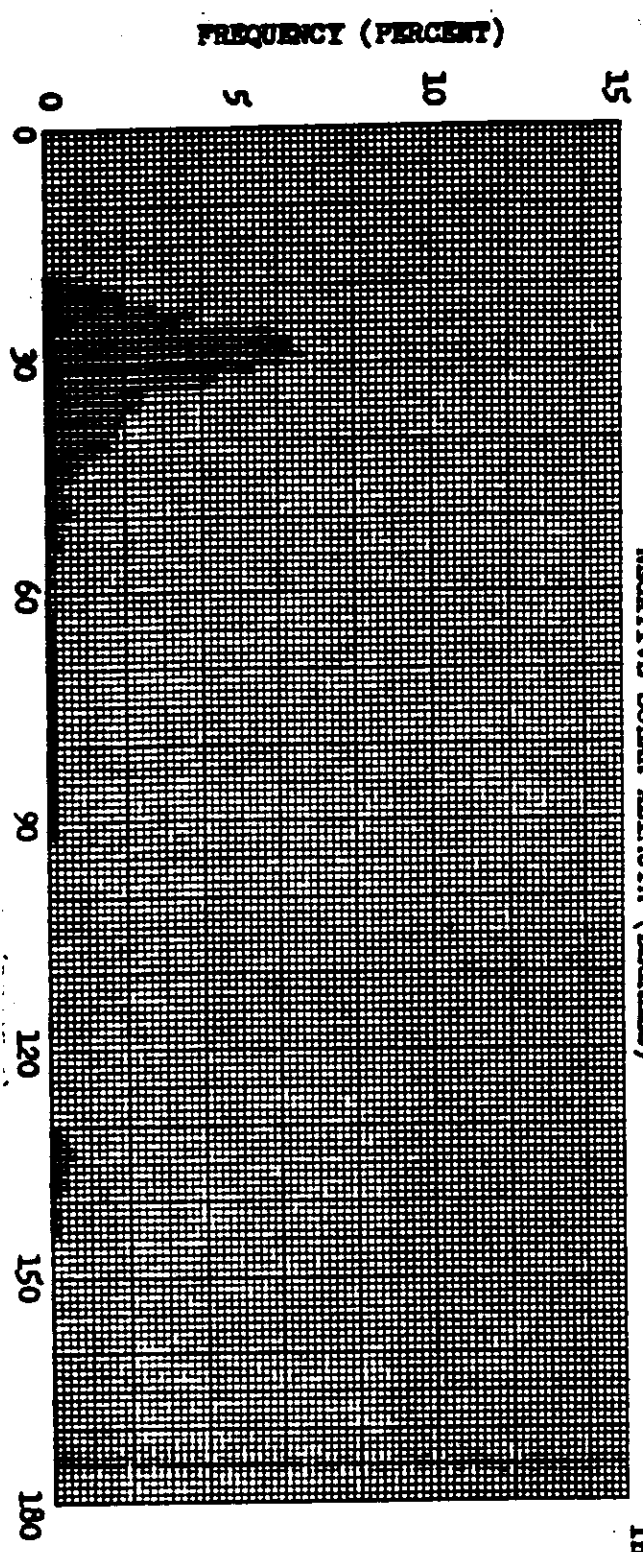
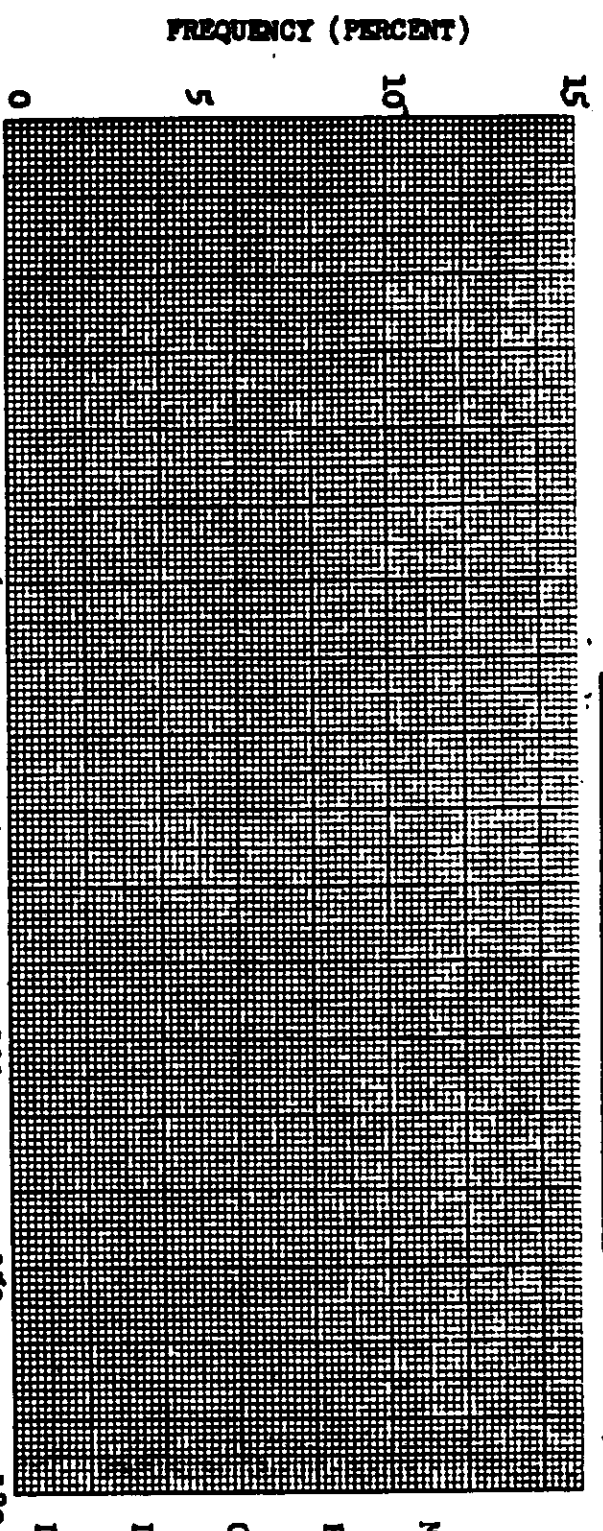
Launch Date: 9/20/66

Launch Time: 2114 Z

Inclination: 85°

SOLAR ELEVATION (DEGREES)
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SOLAR AZIMUTH FREQUENCY DISTRIBUTION



Mission No: 1035-1

Payload No: J-36

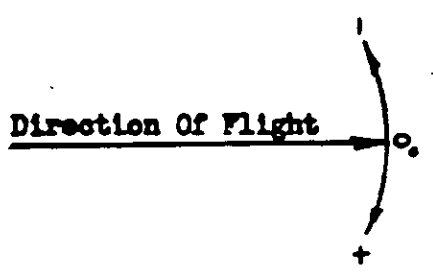
Camera No: 188

Launch Date: 9/20/66

Launch Time: 2114 Z

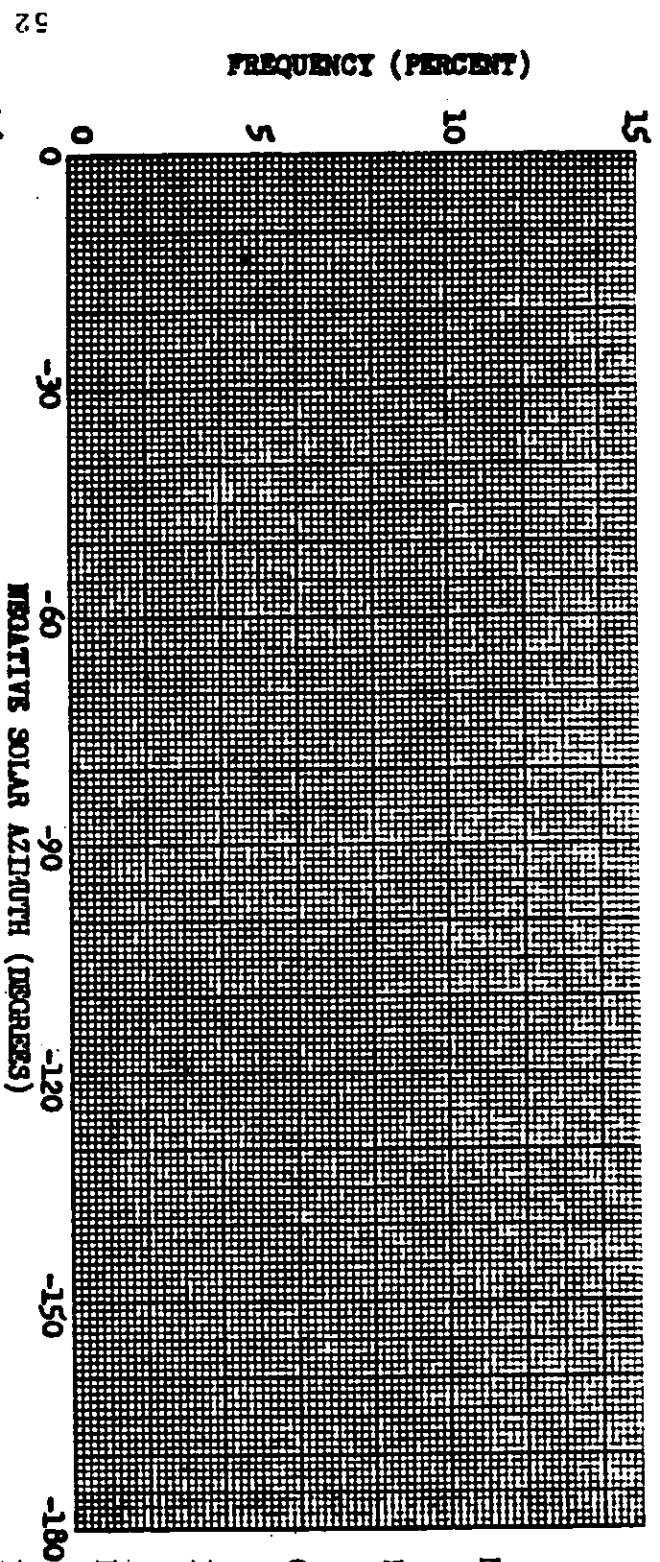
Inclination: 85°

SIGN NOTATION

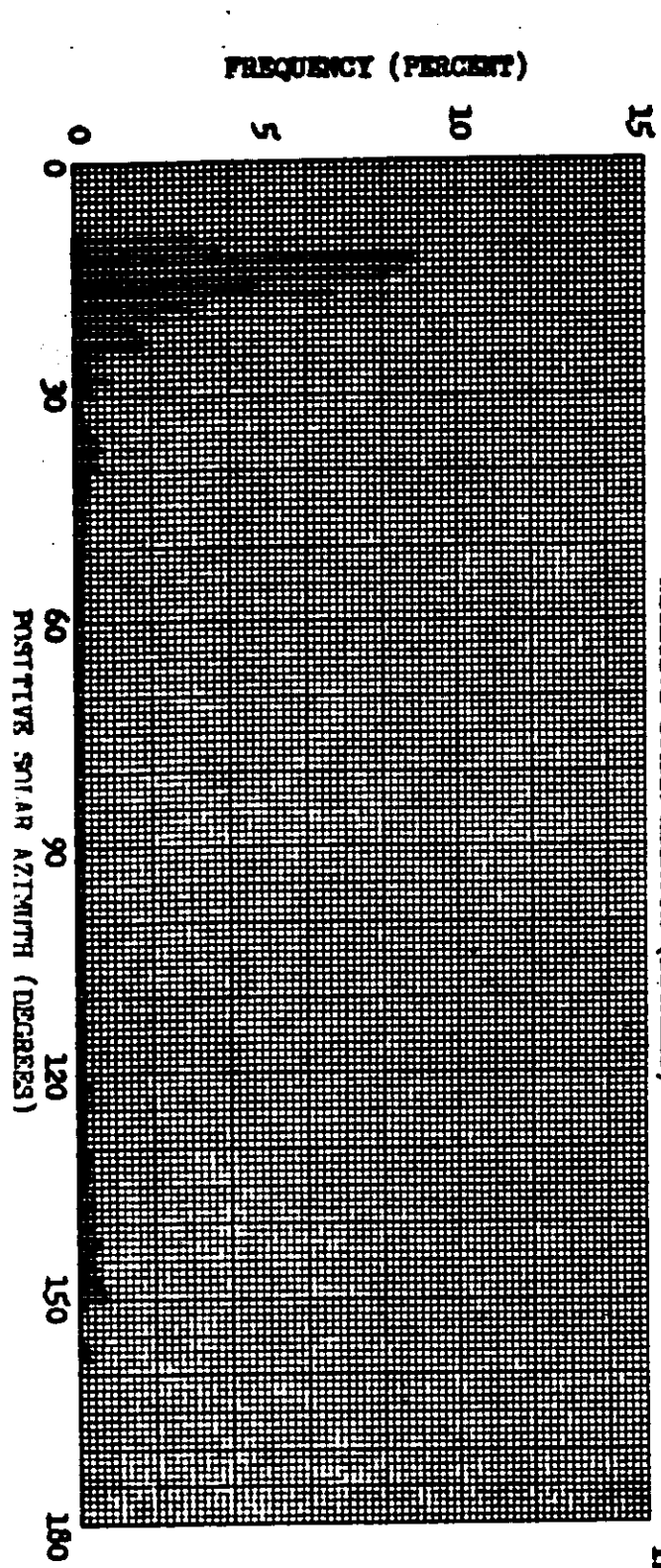


1035-2

SOLAR AZIMUTH FREQUENCY DISTRIBUTION



Mission No: 1035-2
Payload No: J-36
Camera No: 188
Launch Date: 9/20/66
Launch Time: 2114 Z
Inclination: 85°



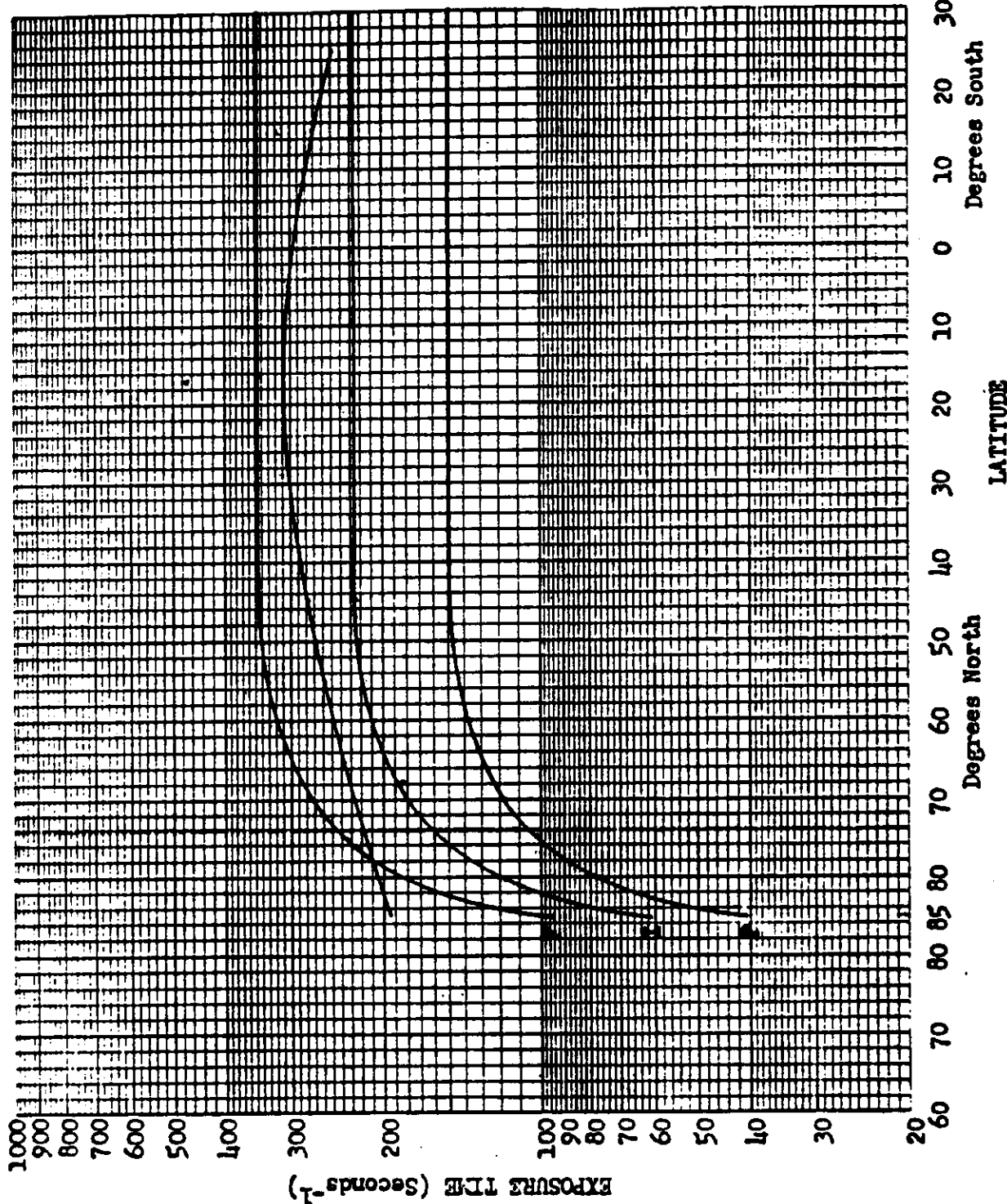
SIGN NOTATION

A diagram showing a horizontal line with an arrow pointing to the right, labeled 'Direction Of Flight'. Above the line, a curved arrow indicates a positive angle. Below the line, a curved arrow indicates a negative angle.

Direction Of Flight



EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 188

Pass No: 8

Launch Date: 9/20/66

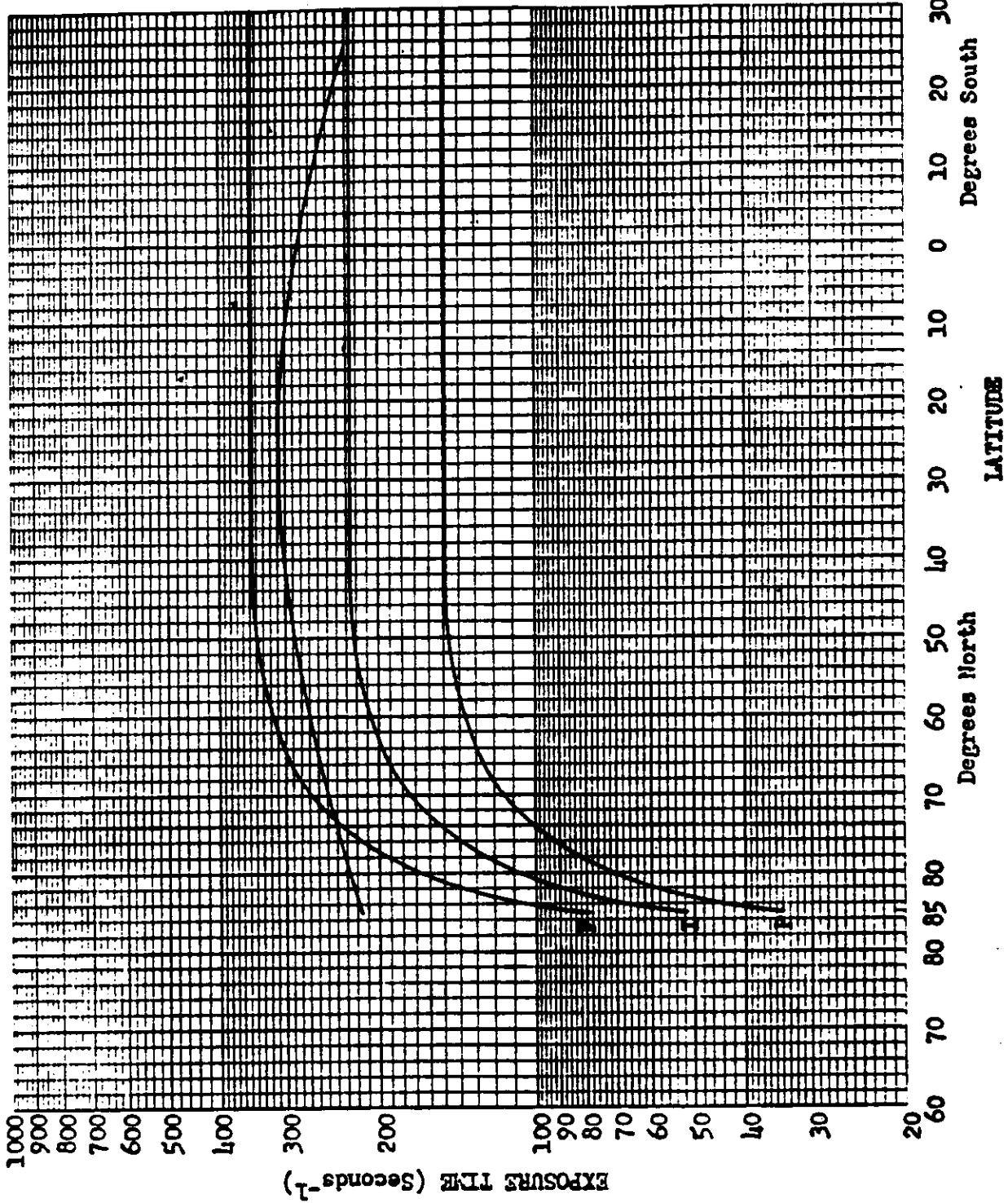
Launch Time: 2114.2

Slit Width: .225

Filter Type: Wratten 23

Film Type: 3104

EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 188

Pass No: 56

Launch Date: 9/20/66

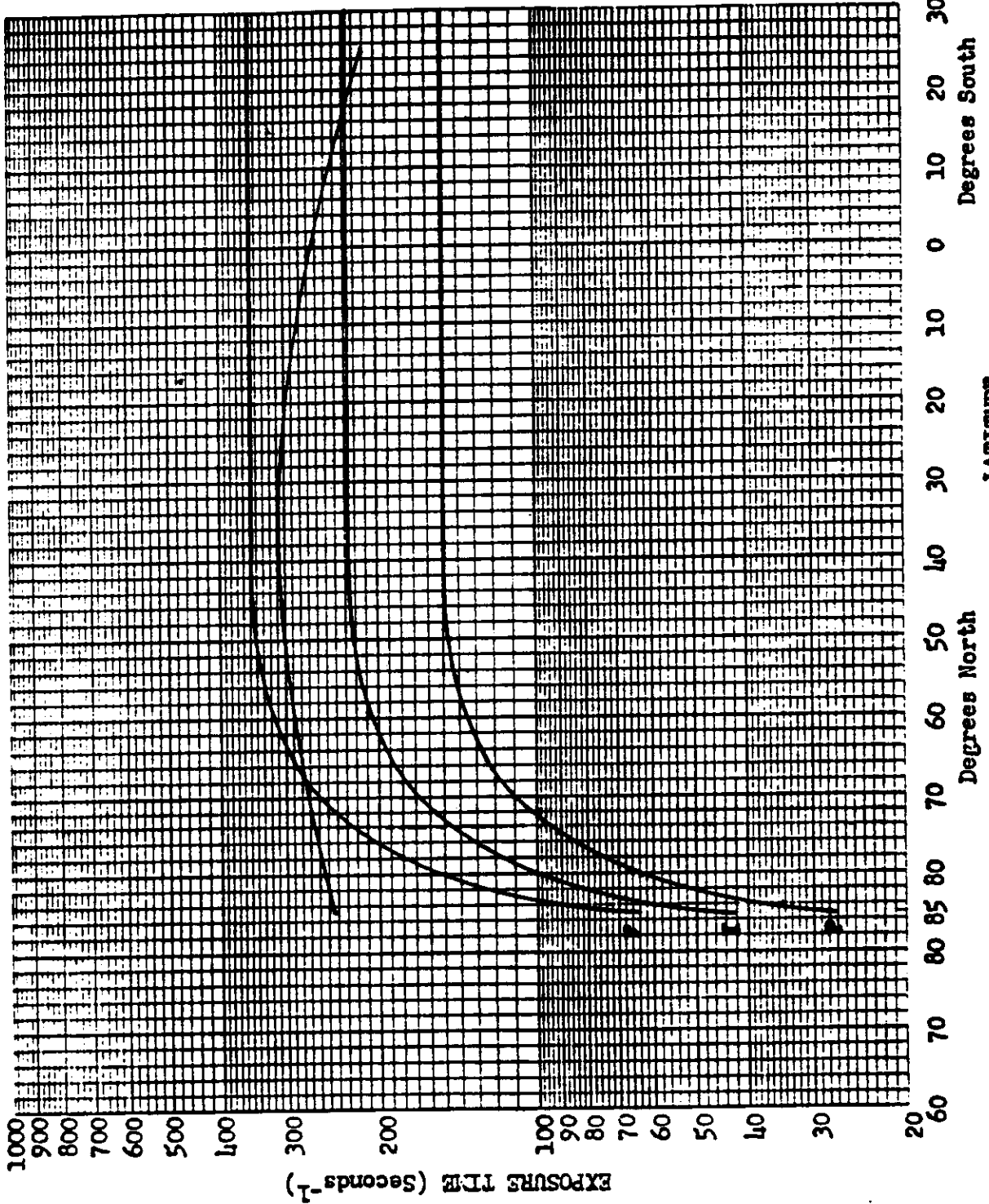
Launch Time: 2114 Z

Slit Width: .225

Filter Type: Wratten 23

Film Type: 3404

EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 188

Pass No: 104

Launch Date: 9/20/66

Launch Time: 2114 Z

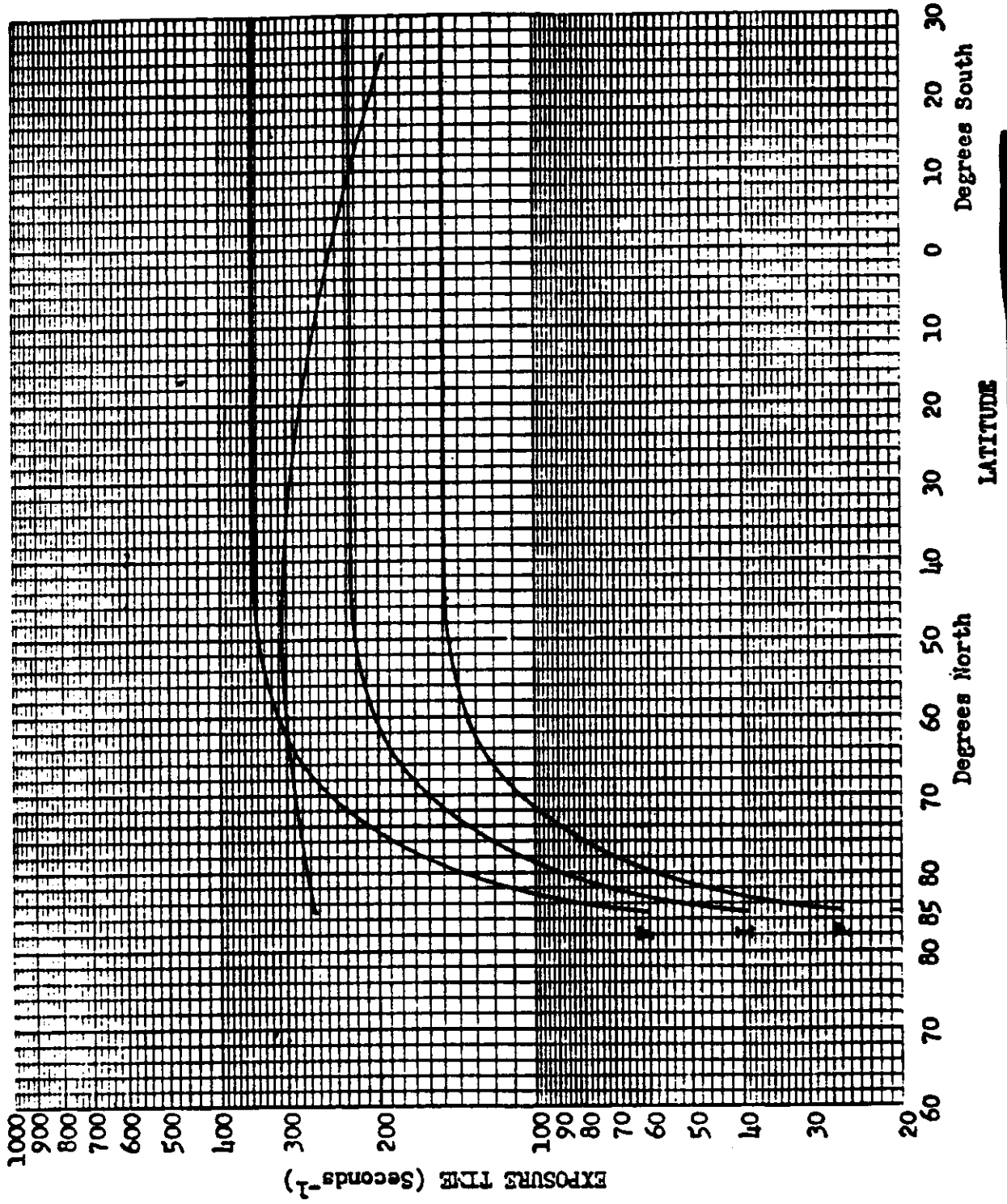
Slit Width: 0.225

Filter Type: Wratten 23

Film Type: 3404

NO.

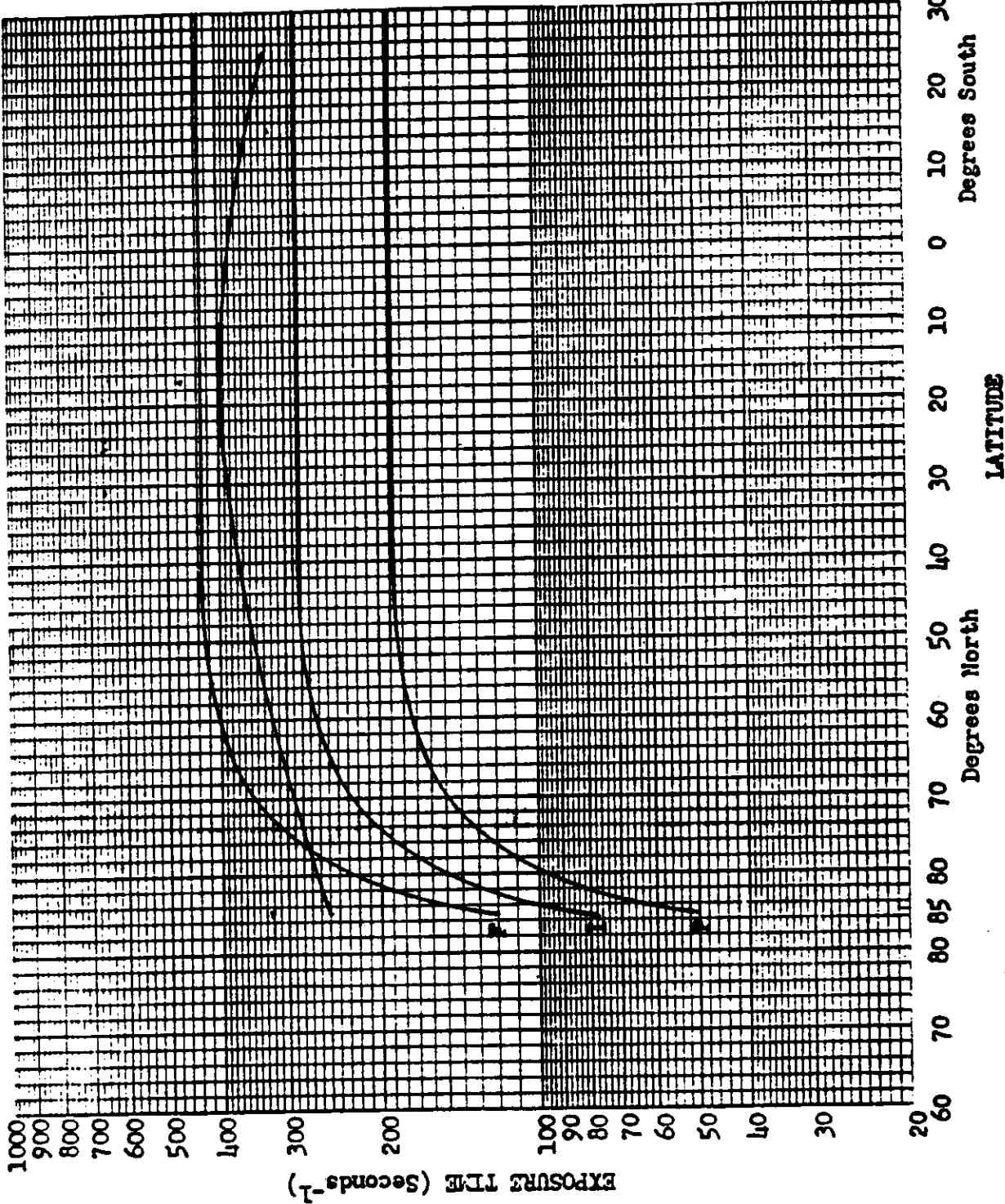
EXPOSURE POINTS



Mission No: 1035
 Payload No: J-36
 Camera No: 180
 Pass No: 152
 Launch Date: 9/20/66
 Launch Time: 2114 Z
 Slit Width: .225
 Filter Type: Wratten 23
 Film Type: 3104



EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 189

Pase No: 8

Launch Date: 9/20/66

Launch Time: 2114 Z

Slit Width: .175

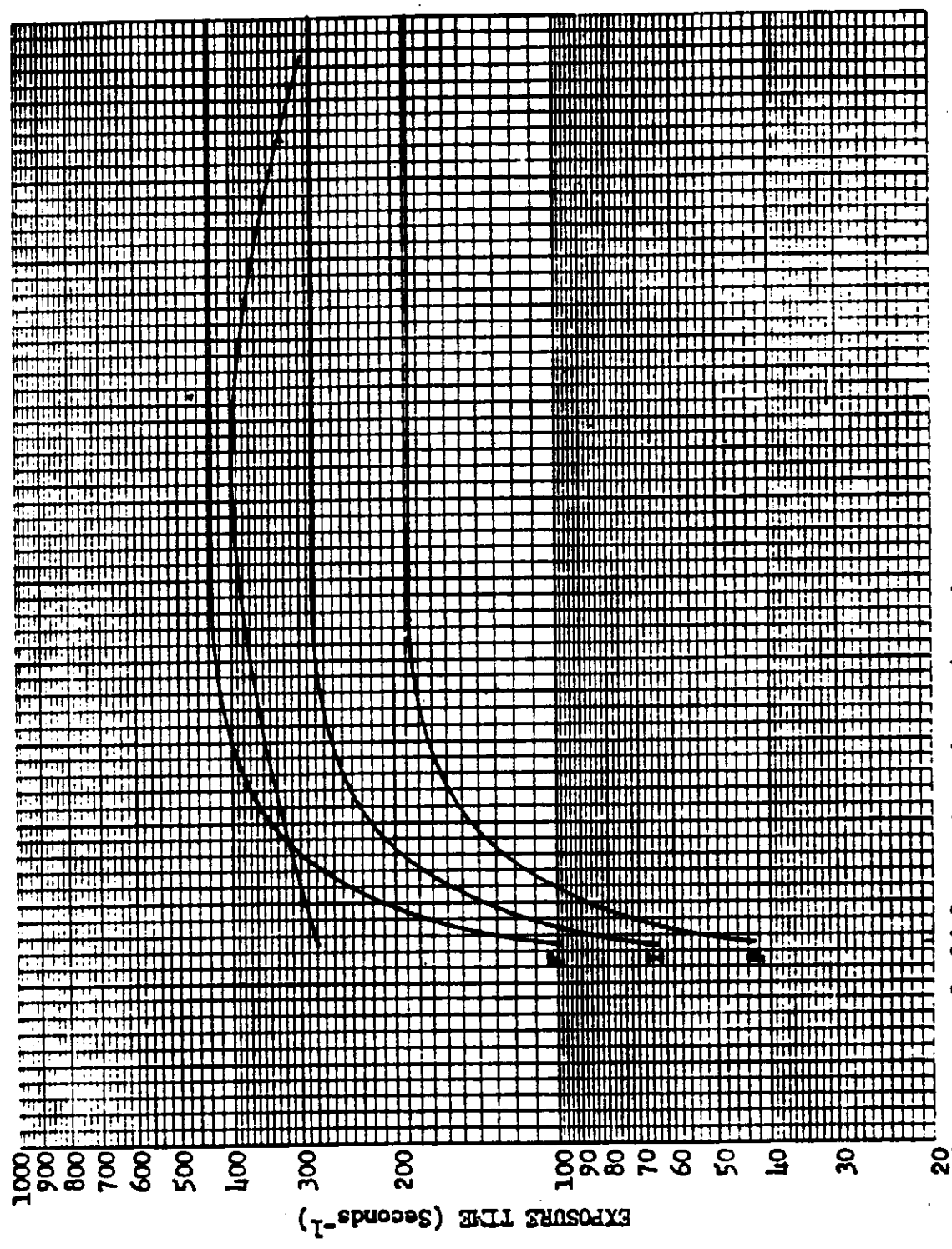
Filter Type: Wratten 21

Film Type: 3404



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EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 189

Pass No: 56

Launch Date: 9/20/66

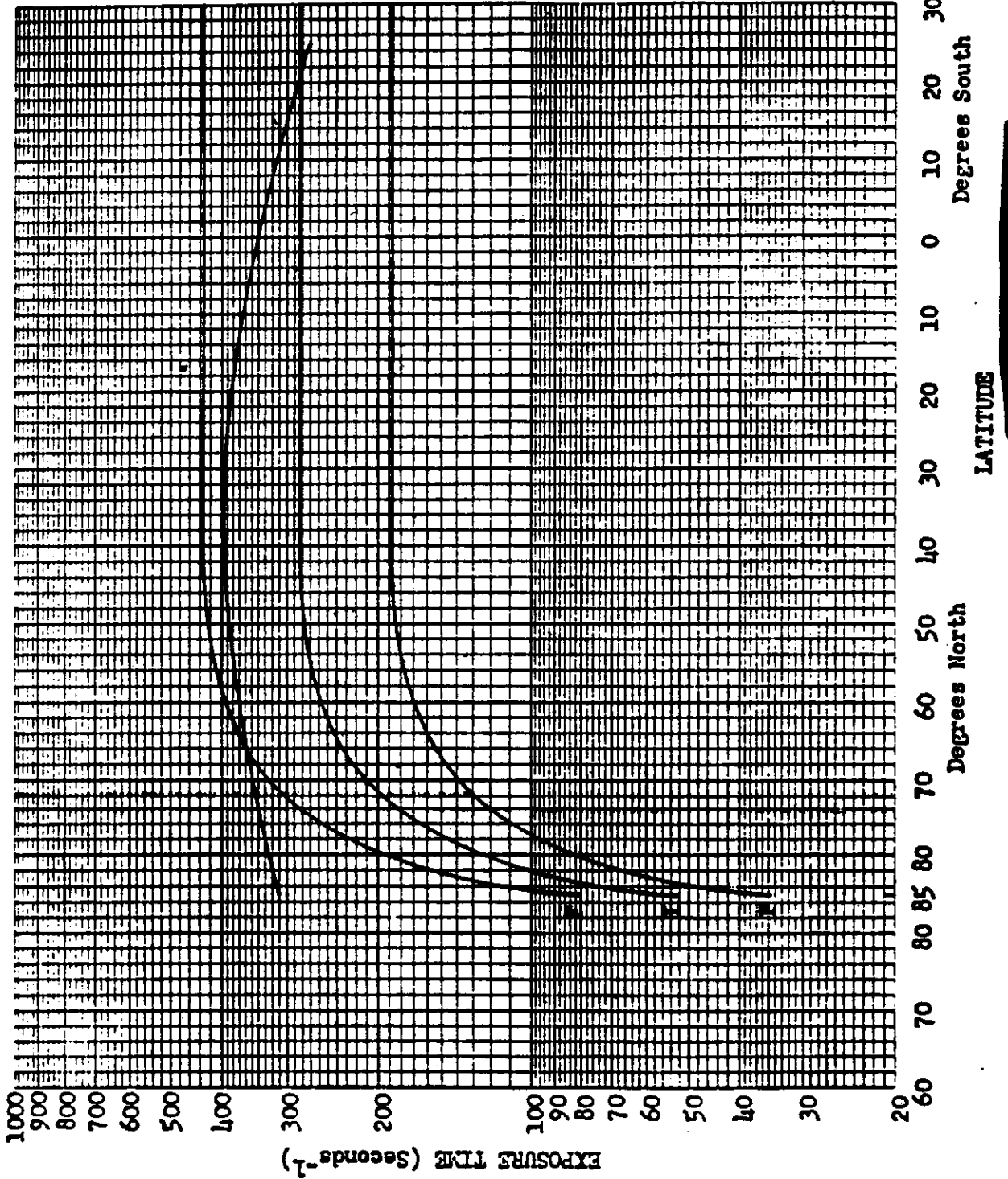
Launch Time: 2114 Z

Slit Width: .175

Filter Type: Wratten 21

Film Type: 3404

EXPOSURE POINTS



Mission No: 1035

Payload No: J-36

Camera No: 189

Pass No: 104

Launch Date: 9/20/66

Launch Time: 2114 Z

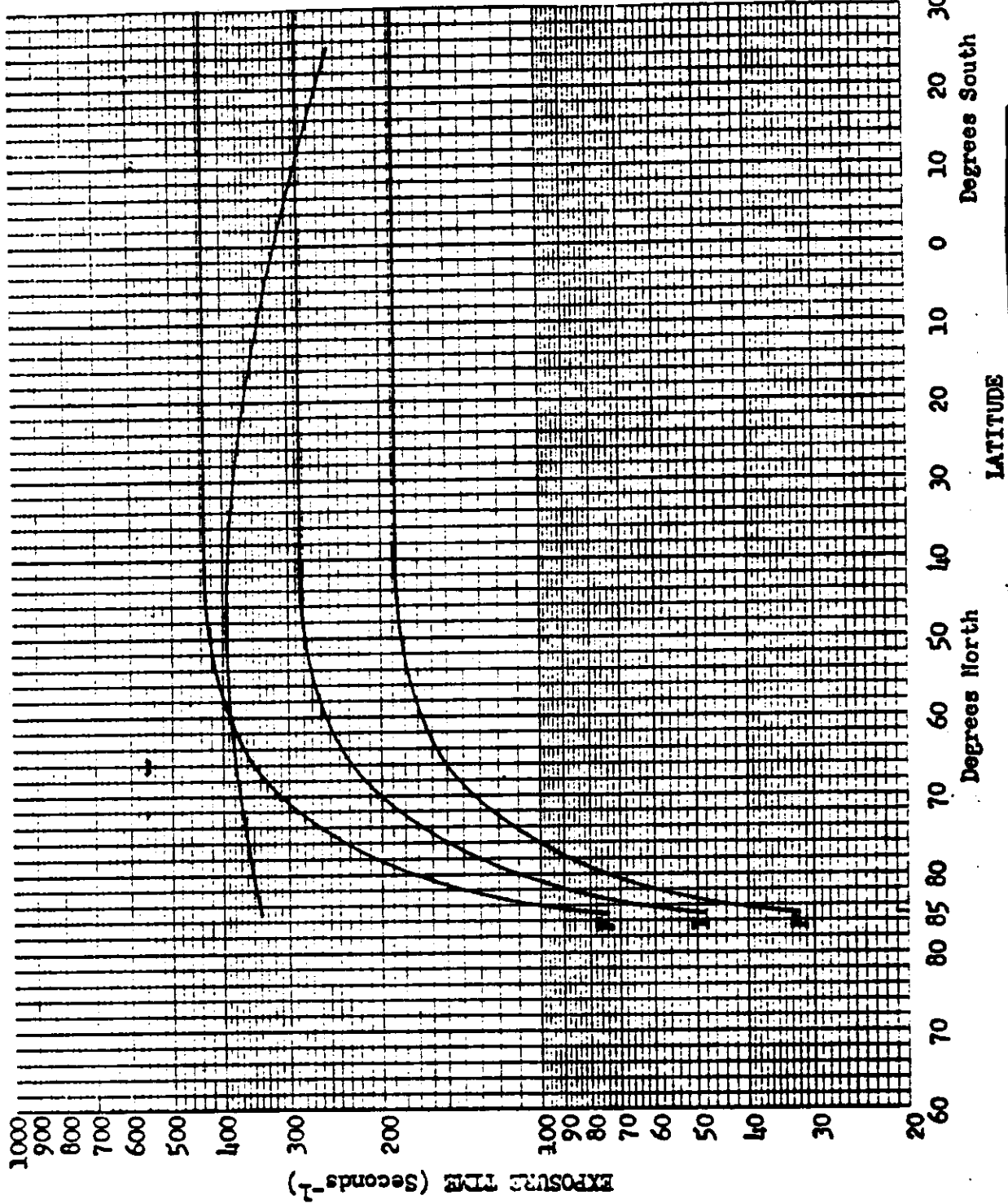
Slit Width: .175

Filter Type: Wratten 21

Film Type: 3404

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NO.

EXPOSURE POINTS



Mission No: 1035
Payload No: J-36
Camera No: 189
Pass No: 152
Launch Date: 9/20/66
Launch Time: 2114 Z
Slit Width: 0.175
Filter Type: Wratten 21
Film Type: 3104

SECTION 9

DIFFUSE DENSITY MEASUREMENTS

The diffuse density measurements made by AFSPPF were computer sorted at A/P to permit analysis of the density ranges encountered at the three processing levels. A study of sorting techniques showed that no absolute method was available to separate the density values as the accuracy of the Processing History published by [redacted] appears rather low and processing transition phases are not accounted for. The sorting technique selected uses the base plus fog density values where measurements up to 0.09 density are considered as having received Primary processing, 0.10 to 0.17 as Intermediate and above 0.17 density as Full. The percentage of original negative that was processed at each level, based on the computer sort, is tabulated below with the predicted and reported processing percentages.

<u>Mission</u>	<u>Camera</u>		<u>Primary</u>	<u>Intermediate</u>	<u>Full</u>
1035-1	FWD	Predicted	0	17	83
		Reported	0	11	89
		Computed	0	5	95
1035-1	AFT	Predicted	0	5	95
		Reported	1	14	85
		Computed	0	9	91
1035-2	FWD	Predicted	0	22	78
		Reported	4	18	78
		Computed	0	18	82
1035-2	AFT	Predicted	0	23	77
		Reported	1	20	79
		Computed	0	12	88

The tabulations of density frequency distributions for Missions 1035-1 and 1035-2 are included in Appendix A, Table A-1 thru A-4. The graphical presentation of the density distribution are computer plotted in Appendix A Figures A-1 thru A-36.

A summary of the processing and exposure analysis is shown in Table 9-1. The terrain D-Min. criteria, (range) for proper exposure and processing is 0.40 to 0.90 density units. The area measured for D-Min. is selected subjectively and is not necessarily the absolute D-Min in the photography.

A density range chart, Figure 9-1 is included in this report. This type of chart for missions 1004 to 1031 is included in the A/P Final Report for Mission 1031.

These charts are produced from the same density measurements previously mentioned in this section. The computer produced the mean, median and range figures for the various processing levels used. The chart includes the number of frames (samples) in which the density measurements were made. These measurements are made on approximately every tenth frame throughout the mission.

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- CONTROL NO. [REDACTED]

MISSION 1035-1 INSTR - FRWD 11/28/66 PROCESSING AND EXPOSURE ANALYSIS:

PROCESS LEVEL	SAMPLE SIZE	UNDER EXPOSED	UNDER PROCESSED	CORRECT EXP+PROC	OVER PROCESSED	OVER EXPOSED
PRIMARY	0	0 PC	0 PC	0 PC	0 PC	0 PC
INTERMEDIATE	13	0 PC	23 PC	77 PC	0 PC	0 PC
FULL LEVELS	1247	23 PC	0 PC	70 PC	4 PC	1 PC
ALL LEVELS	1260	23 PC	1 PC	71 PC	4 PC	1 PC

MISSION 1036-1 INSTR - AFT 11/28/66 PROCESSING AND EXPOSURE ANALYSIS:

PROCESS LEVEL	SAMPLE SIZE	UNDER EXPOSED	UNDER PROCESSED	CORRECT EXP+PROC	OVER PROCESSED	OVER EXPOSED
PRIMARY	0	0 PC	0 PC	0 PC	0 PC	0 PC
INTERMEDIATE	24	0 PC	33 PC	54 PC	13 PC	0 PC
FULL LEVELS	234	29 PC	0 PC	67 PC	4 PC	0 PC
ALL LEVELS	258	27 PC	3 PC	65 PC	5 PC	0 PC

MISSION 1035-2 INSTR - FRWD 11/28/66 PROCESSING AND EXPOSURE ANALYSIS:

PROCESS LEVEL	SAMPLE SIZE	UNDER EXPOSED	UNDER PROCESSED	CORRECT EXP+PROC	OVER PROCESSED	OVER EXPOSED
PRIMARY	0	0 PC	0 PC	0 PC	0 PC	0 PC
INTERMEDIATE	20	0 PC	29 PC	63 PC	3 PC	0 PC
FULL LEVELS	220	29 PC	0 PC	67 PC	4 PC	0 PC
ALL LEVELS	269	24 PC	5 PC	65 PC	4 PC	0 PC

MISSION 1035-2 INSTR - AFT 11/28/66 PROCESSING AND EXPOSURE ANALYSIS:

PROCESS LEVEL	SAMPLE SIZE	UNDER EXPOSED	UNDER PROCESSED	CORRECT EXP+PROC	OVER PROCESSED	OVER EXPOSED
PRIMARY	0	0 PC	0 PC	0 PC	0 PC	0 PC
INTERMEDIATE	33	0 PC	27 PC	64 PC	9 PC	0 PC
FULL LEVELS	231	14 PC	0 PC	78 PC	6 PC	0 PC
ALL LEVELS	264	14 PC	3 PC	76 PC	7 PC	0 PC

MISSION 1035-2 INSTR - AFT 11/28/66 PROCESSING AND EXPOSURE ANALYSIS:

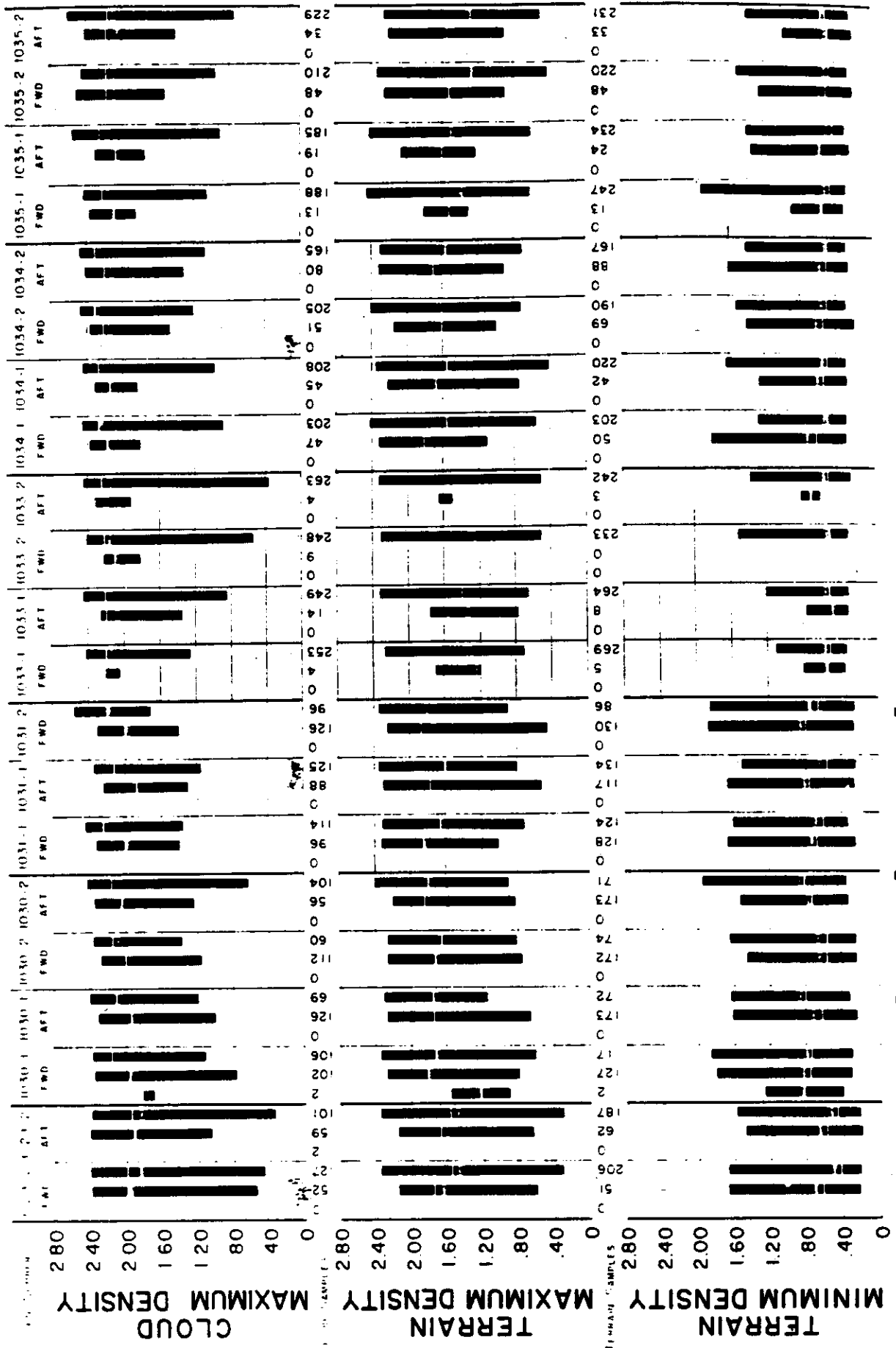
PROCESS LEVEL	SAMPLE SIZE	UNDER EXPOSED	UNDER PROCESSED	CORRECT EXP+PROC	OVER PROCESSED	OVER EXPOSED
PRIMARY	0	0 PC	0 PC	0 PC	0 PC	0 PC
INTERMEDIATE	10	0 PC	14 PC	0 PC	0 PC	0 PC
FULL LEVELS	10	0 PC	21 PC	0 PC	0 PC	0 PC
ALL LEVELS	10	0 PC	21 PC	0 PC	0 PC	0 PC

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J MISSION DENSITY RANGES



SECTION 10

PERFORMANCE MEASUREMENTS

The photography acquired by both panoramic cameras during Missions 1035-1 and 1035-2 received a MIP rating of 85. A summary is tabulated below of the MTF/AIM resolution values measured by AFSPPT. The microdensitometer slit was 1 micron by 80 microns for the edge scan analysis.

Mission	Camera	Cycles/mm	Average	Ground Resolution
1035-1	FWD	66	74	16.6'
1035-2	FWD	81		
1035-1	AFT	80	81	14.7'
1035-2	AFT	82		

The details of the measurement and computing techniques, targets measured and target locations are fully reported in the evaluation report published by AFSPPF and are not included in this report.

SECTION 11

VEHICLE ATTITUDE

The vehicle attitude errors for both Mission 1035-1 and 1035-2 were derived from the reduction of the Stellar camera photography. This attitude data is supplied to A/P by NPIC.

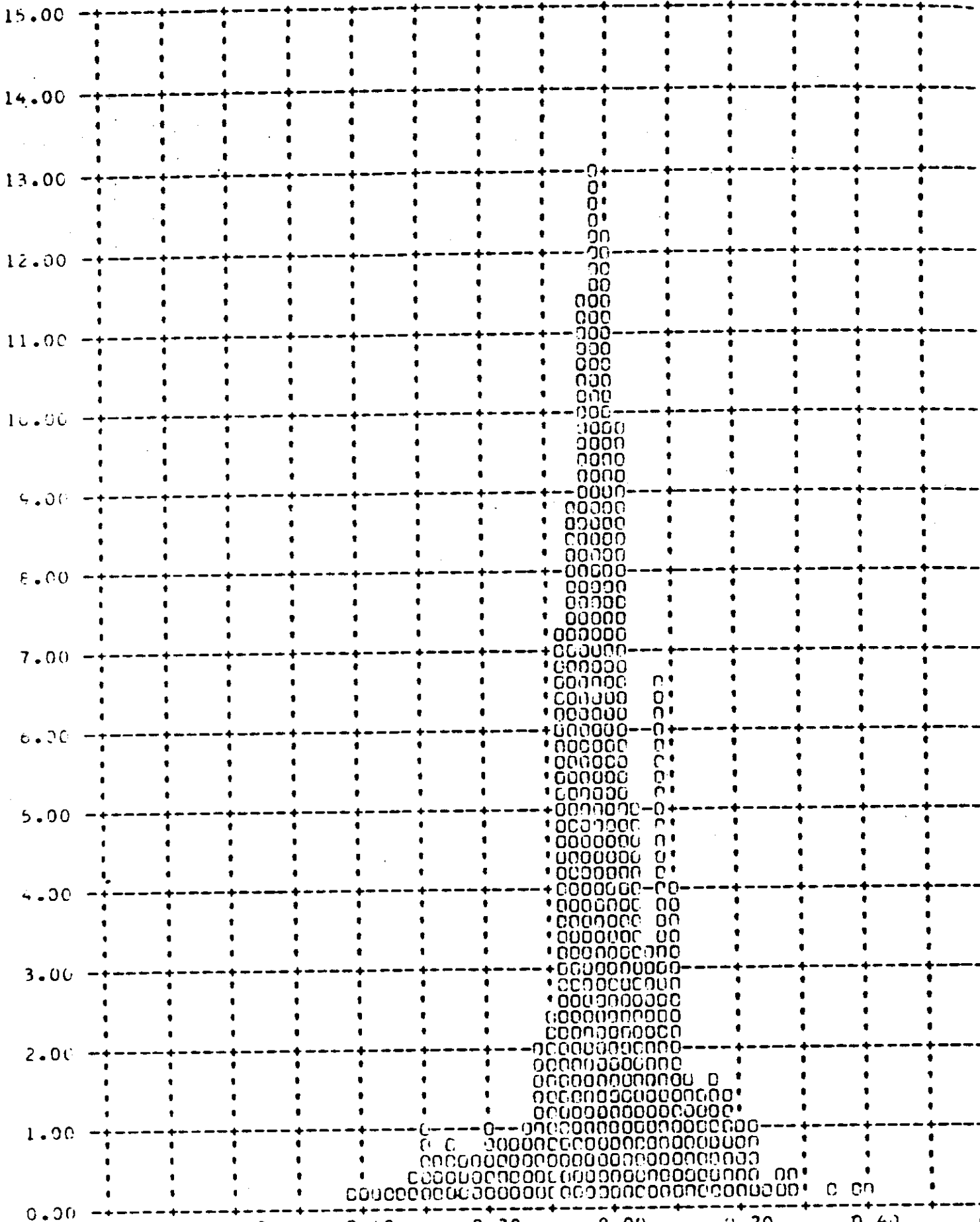
The attitude errors for each frame and the attitude control rates are calculated at the A/P computer facility. The computer also plots the frequency distribution of the rates and errors. Figures 11-1 through 11-6 show these distributions for Mission 1035-1 and Figures 11-7 through 11-12 for Mission 1035-2.

The summary table below lists the maximum attitude errors and rates that were experienced during 90% of the FWD camera photographic operations, excluding the first six frames of each operation, and the total range of the errors and rates.

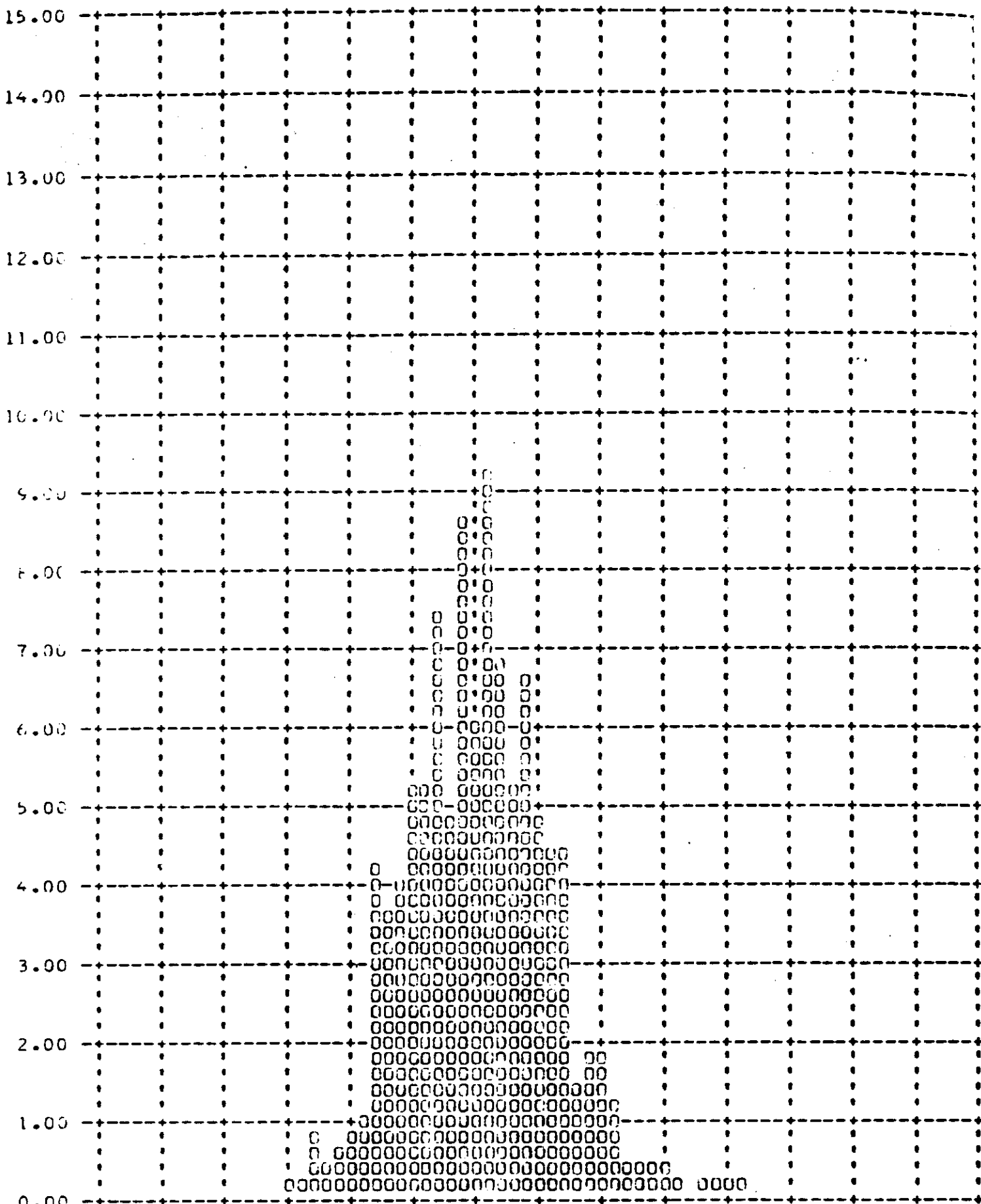
<u>Value</u>	<u>Mission 1035-1</u>		<u>Mission 1035-2</u>	
	<u>90%</u>	<u>Range</u>	<u>90%</u>	<u>Range</u>
Pitch Error (°)	0.16	-0.42 to +0.40	0.16	-0.42 to +0.30
Roll Error (°)	0.55	-0.70 to +0.02	0.50	-0.88 to +0.02
Yaw Error (°)	2.39	-3.2 to +0.8	3.02	-3.2 to +1.2
Pitch Rate (°/hr.)	18.86	-85 to +65	18.37	-56 to +36
Roll Rate (°/hr.)	27.92	-70 to +80	30.14	-85 to +75
Yaw Rate (°/hr.)	33.95	-60 to +70	27.47	-85 to +70

The performance of the attitude control system is comparable to the control systems used on recent missions. The panoramic photography was not degraded by the attitude control system. The yaw programmer caused the high yaw error. See Section 3-B for discussion.

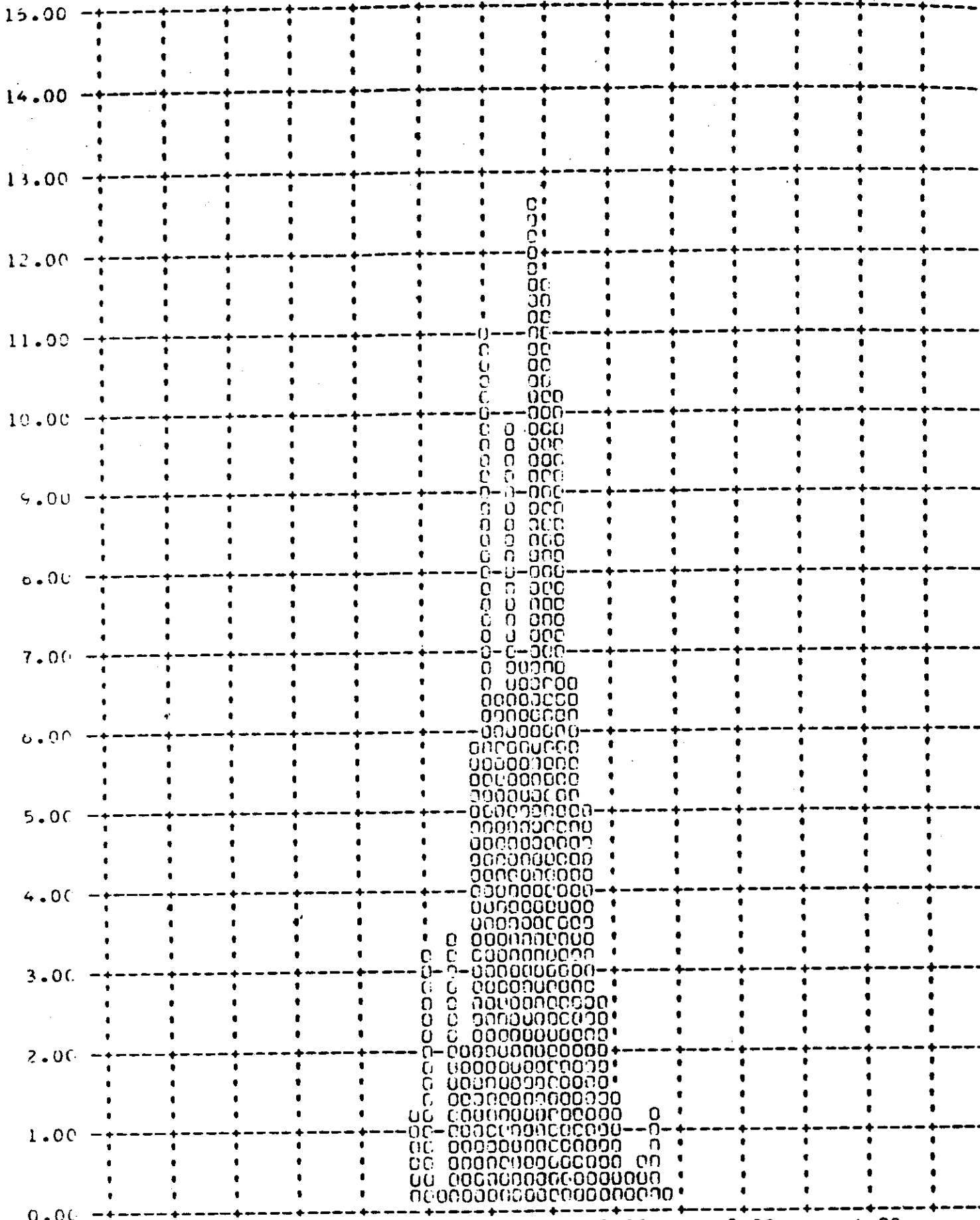
Y PITCH ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



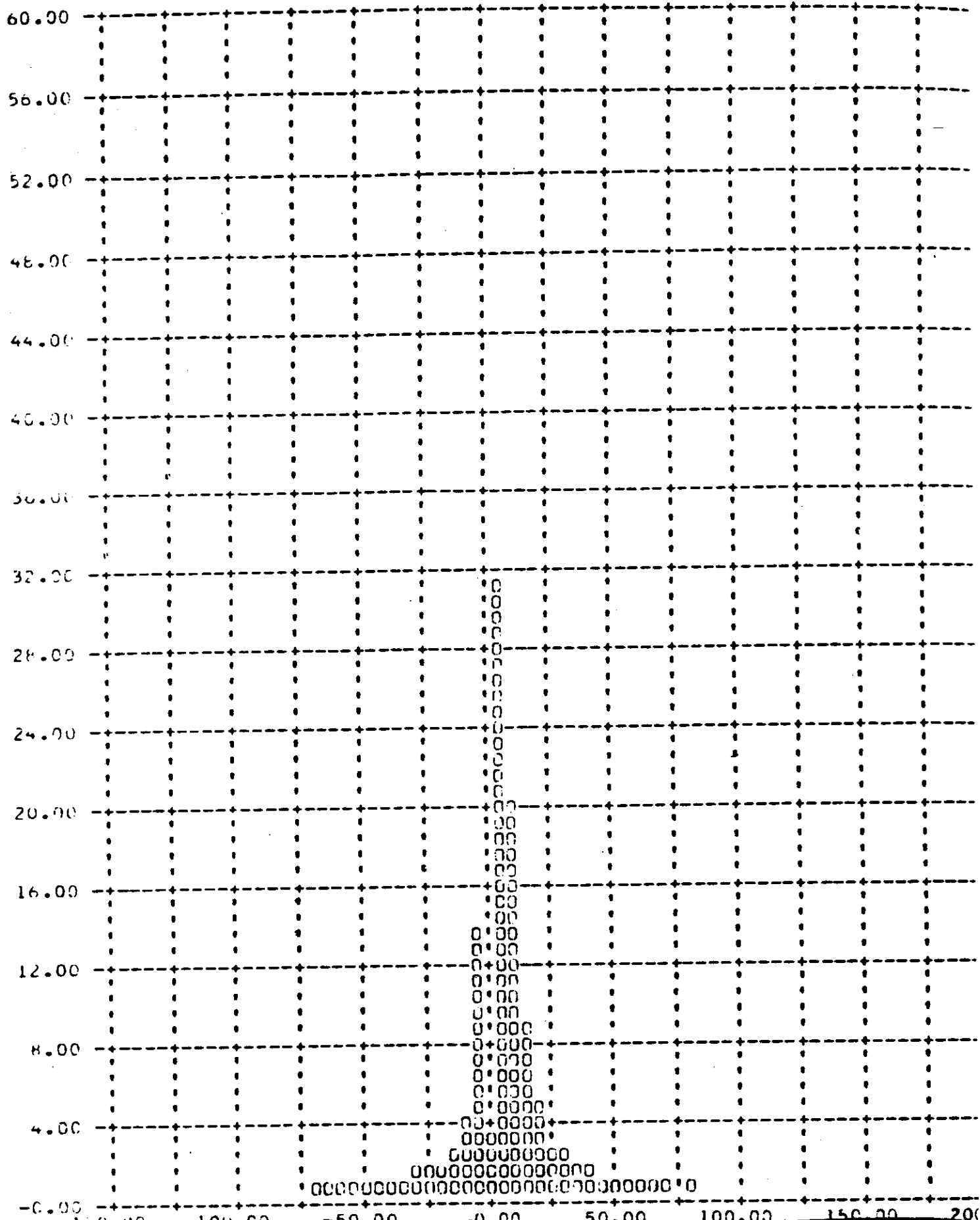
Y ROLL ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



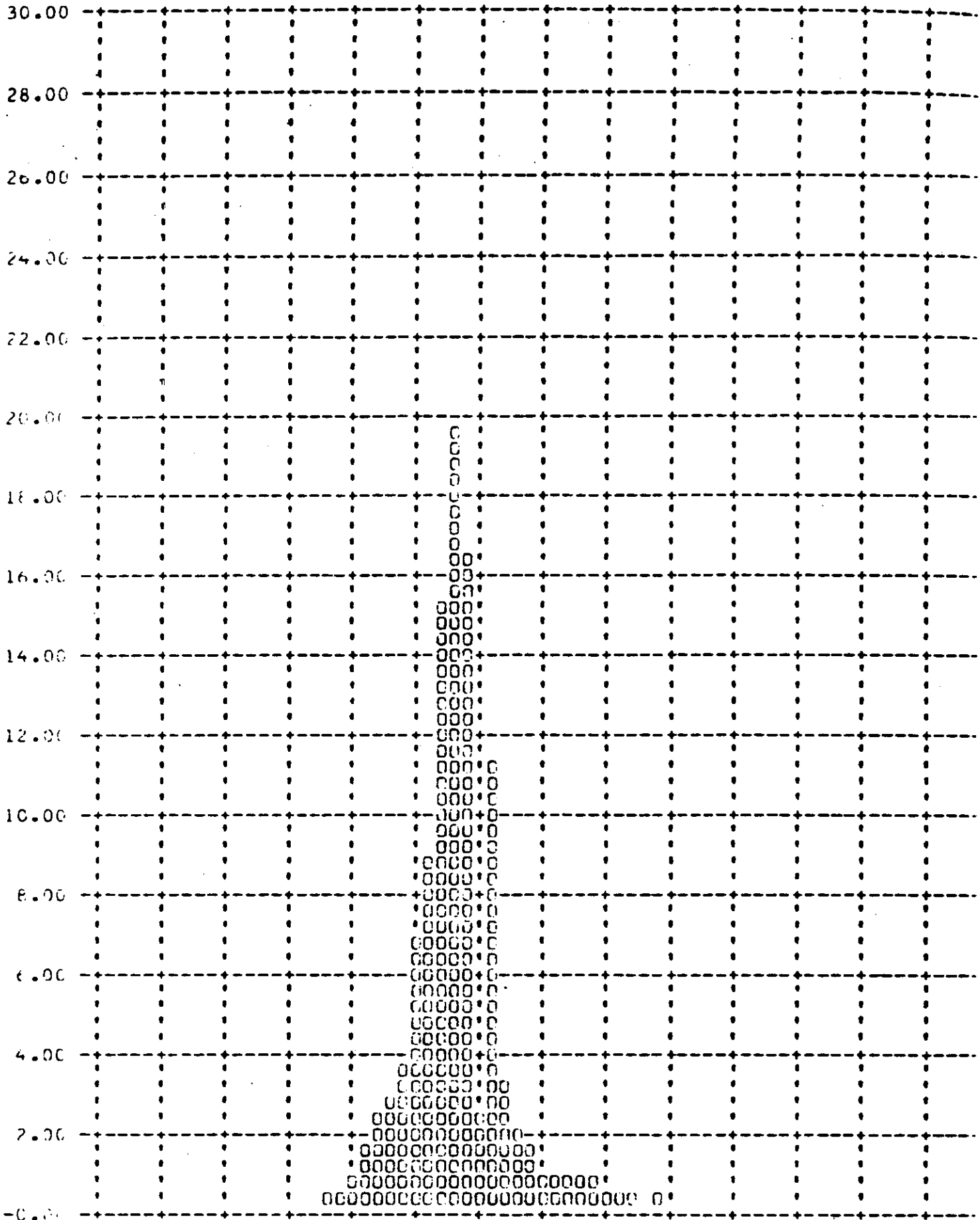
YAW ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



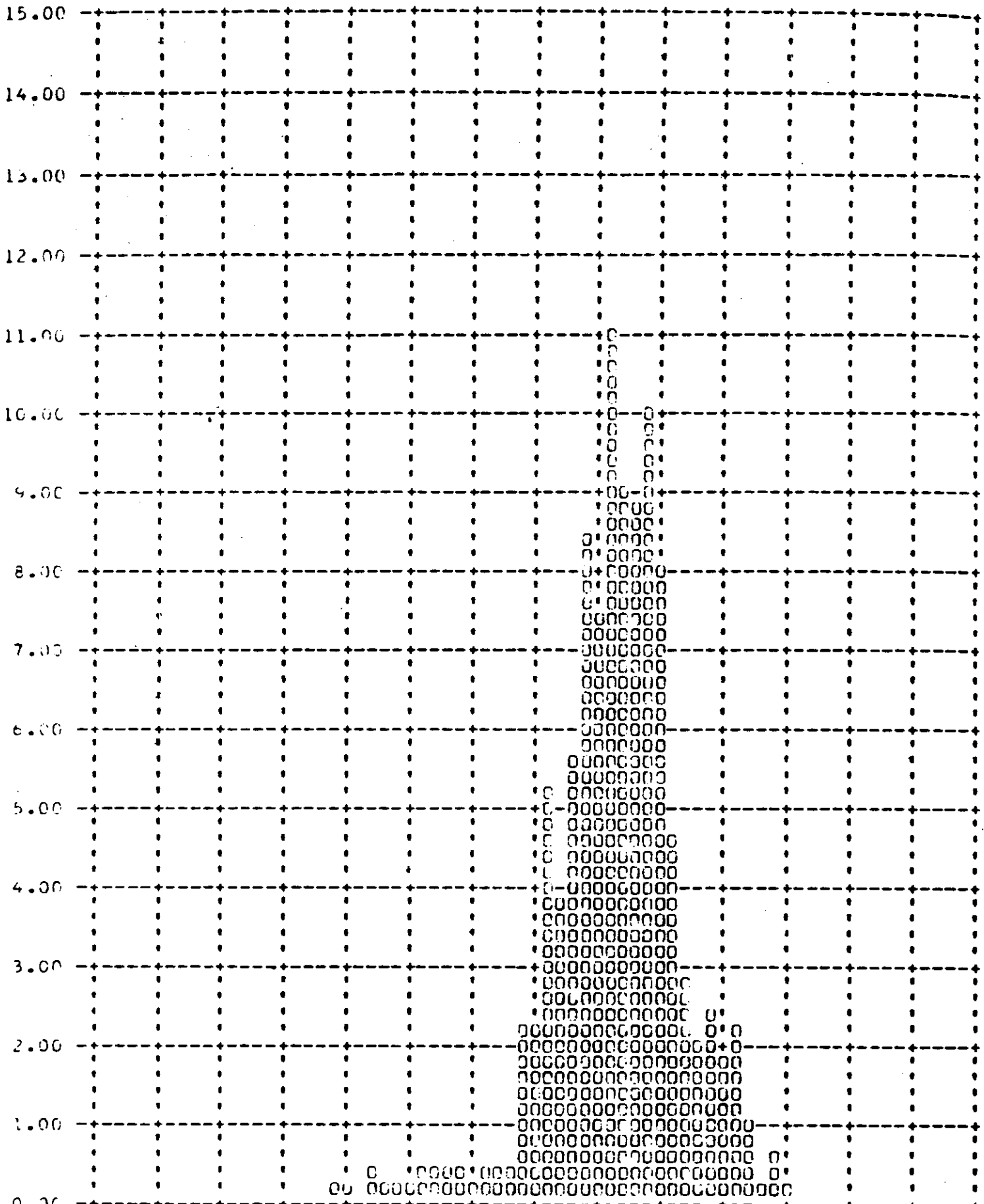
ROLL RATE ERROR - DEG/HOUR (X) VERSUS FREQUENCY - PERCENT (Y)



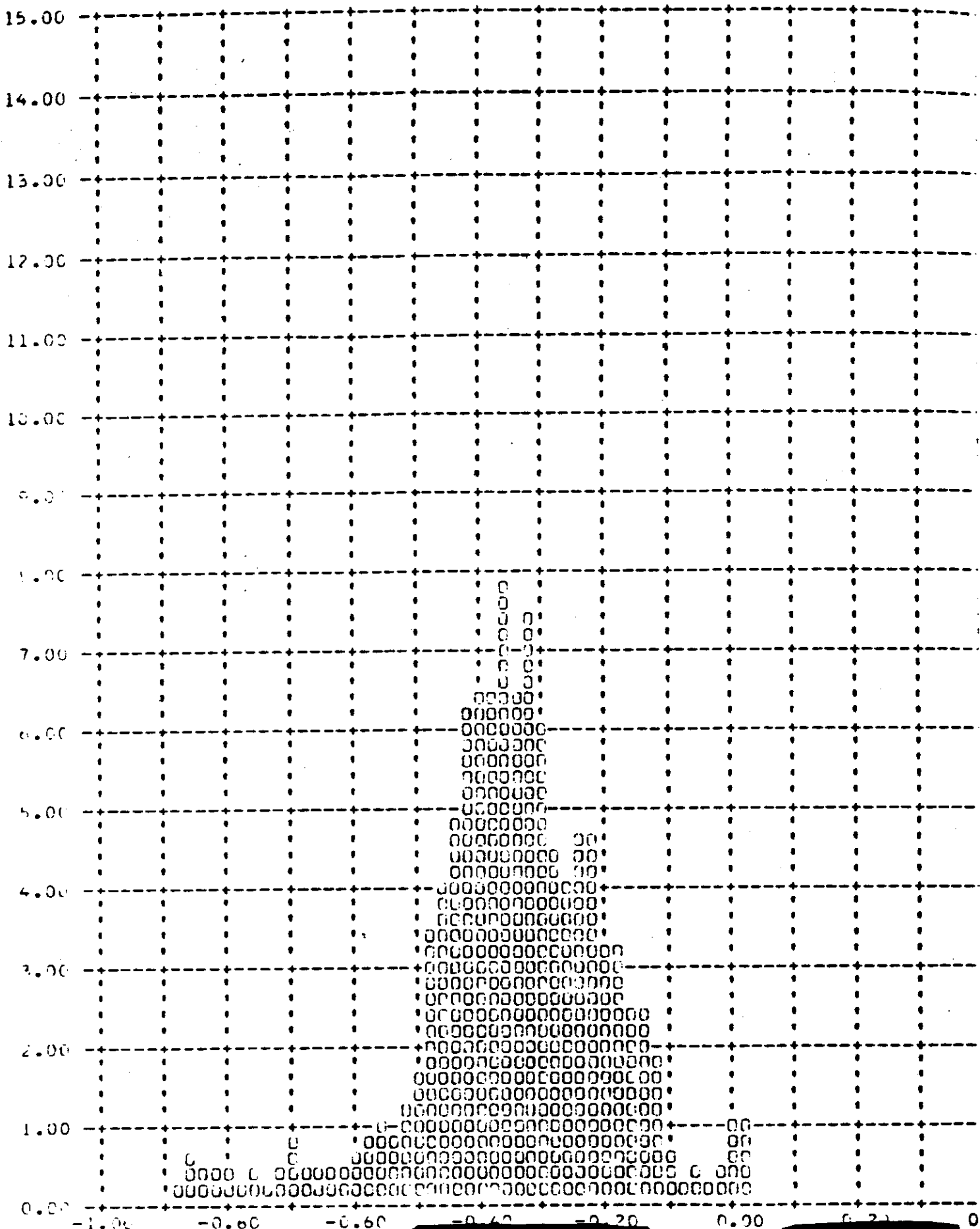
YAW RATE ERROR - DEG/HOUR (X) VERSUS FREQUENCY - PERCENT (Y)



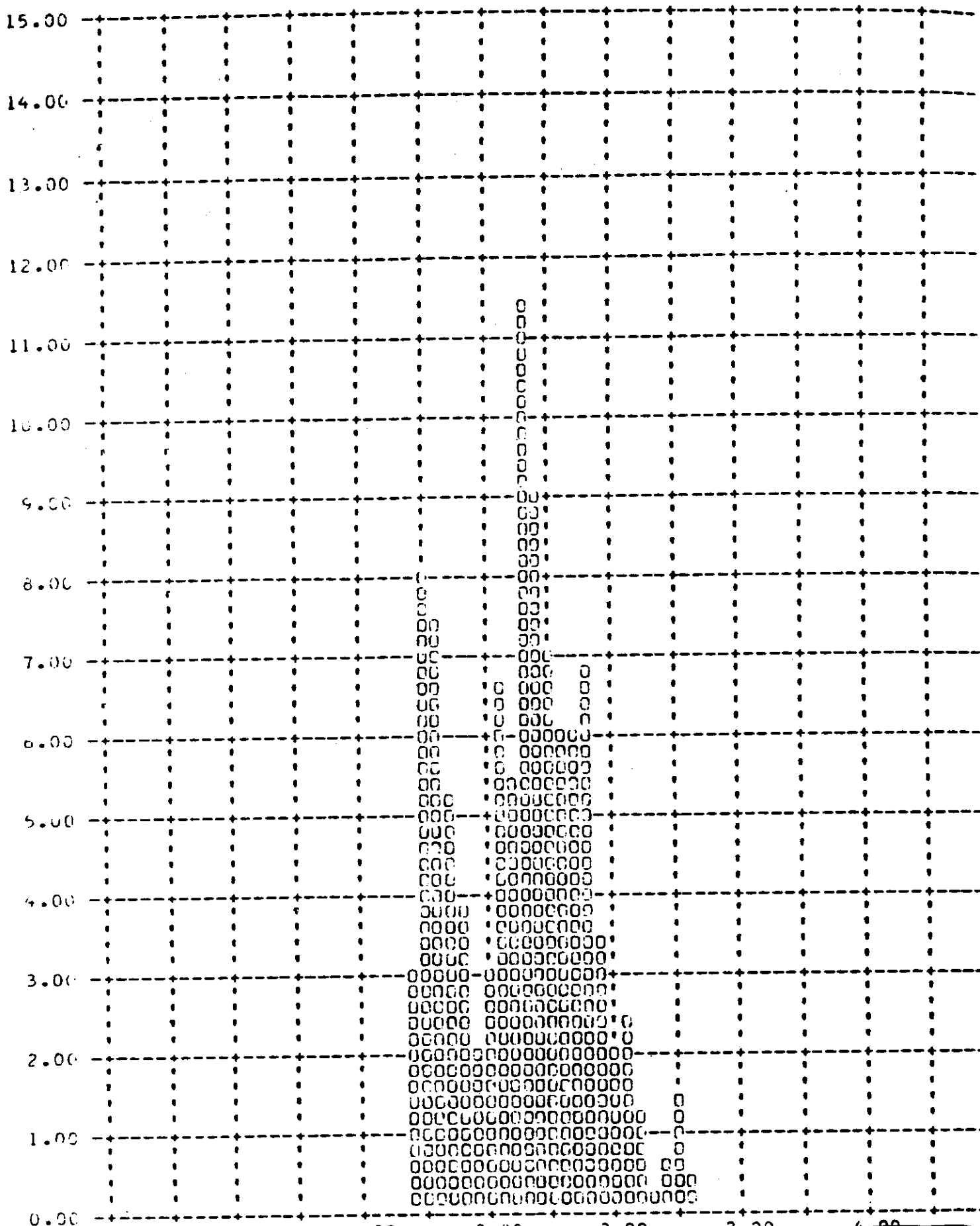
Y PITCH ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



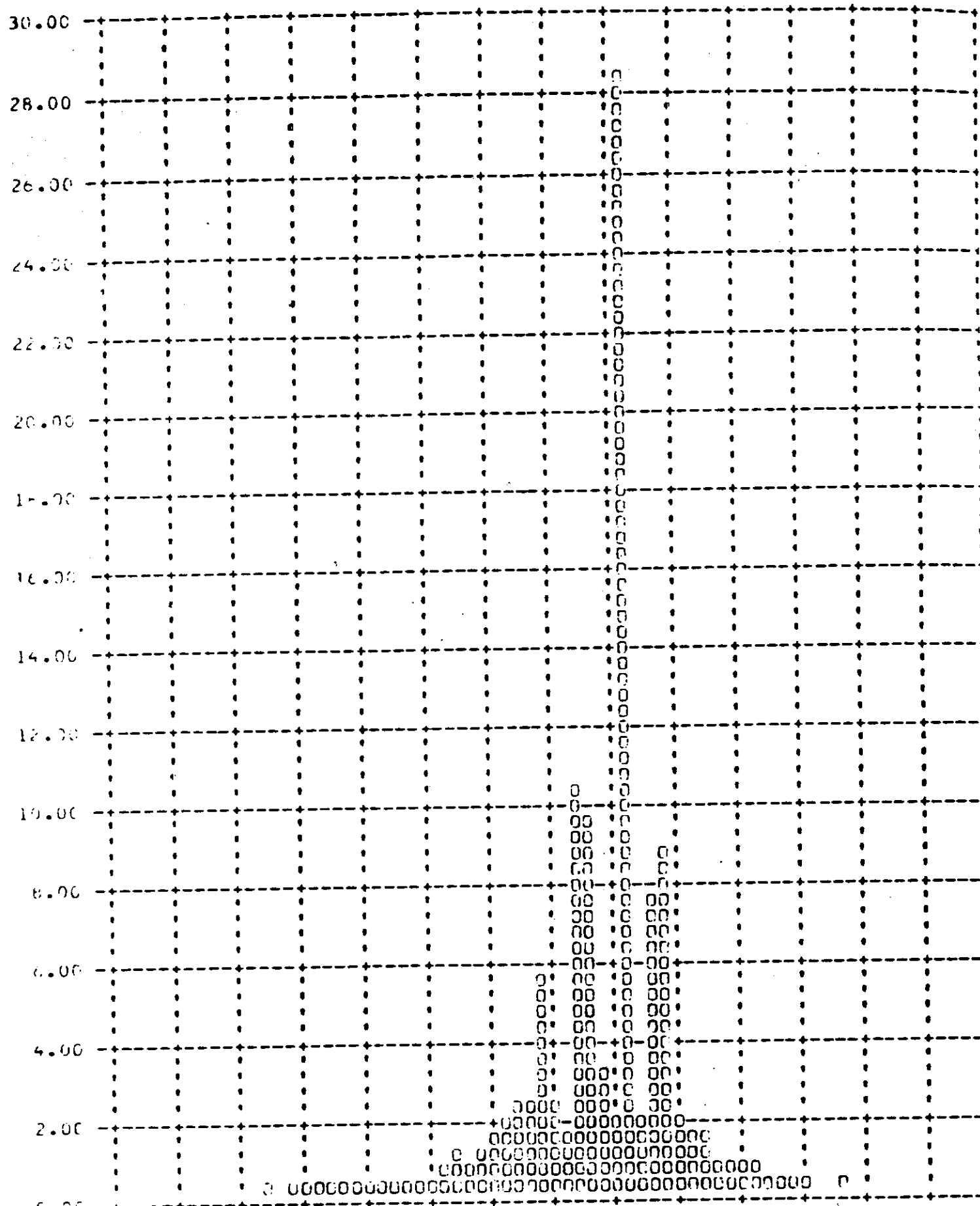
Y ROLL ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



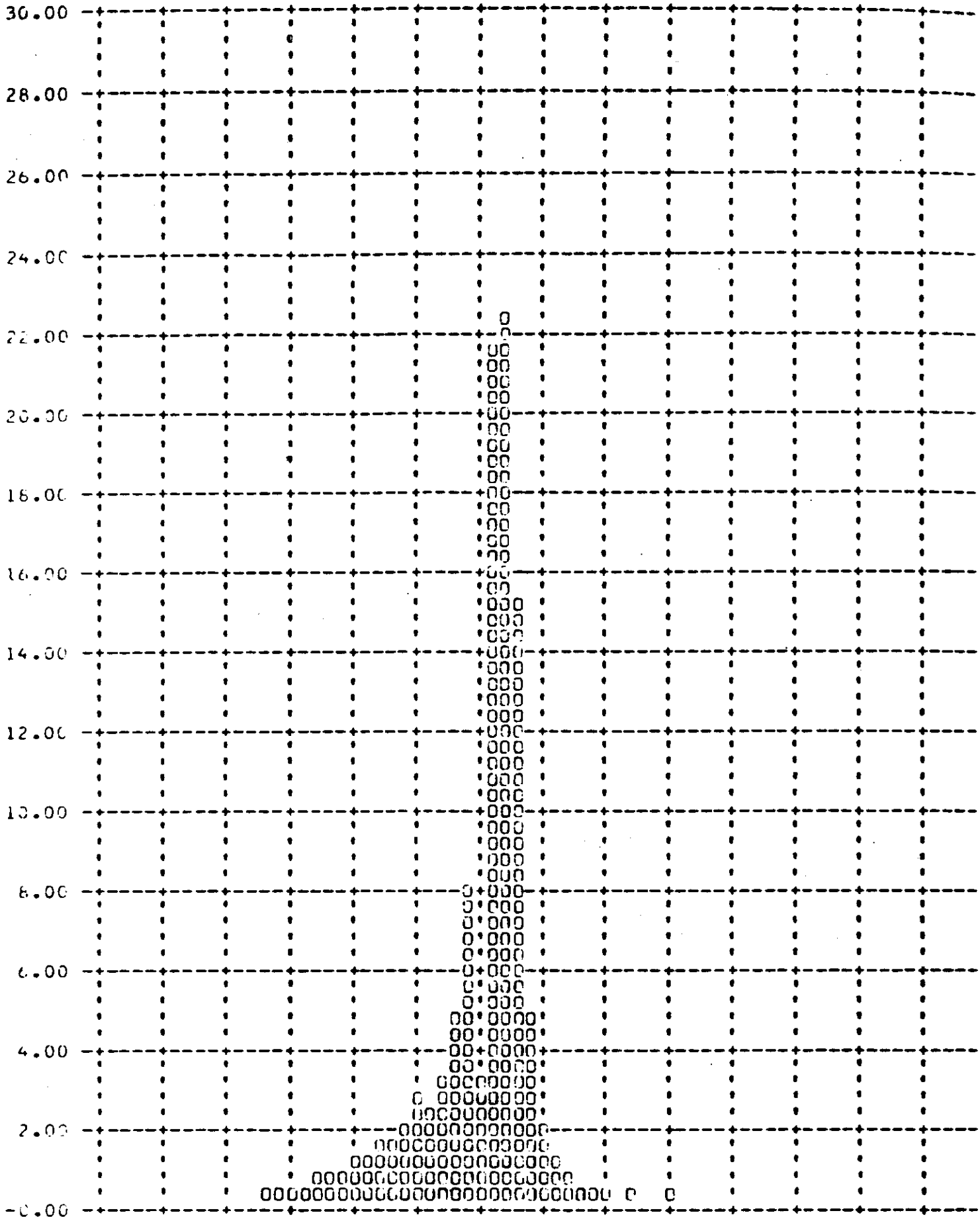
YAW ANGLE ERROR - DEGREES (X) VERSUS FREQUENCY - PERCENT (Y)



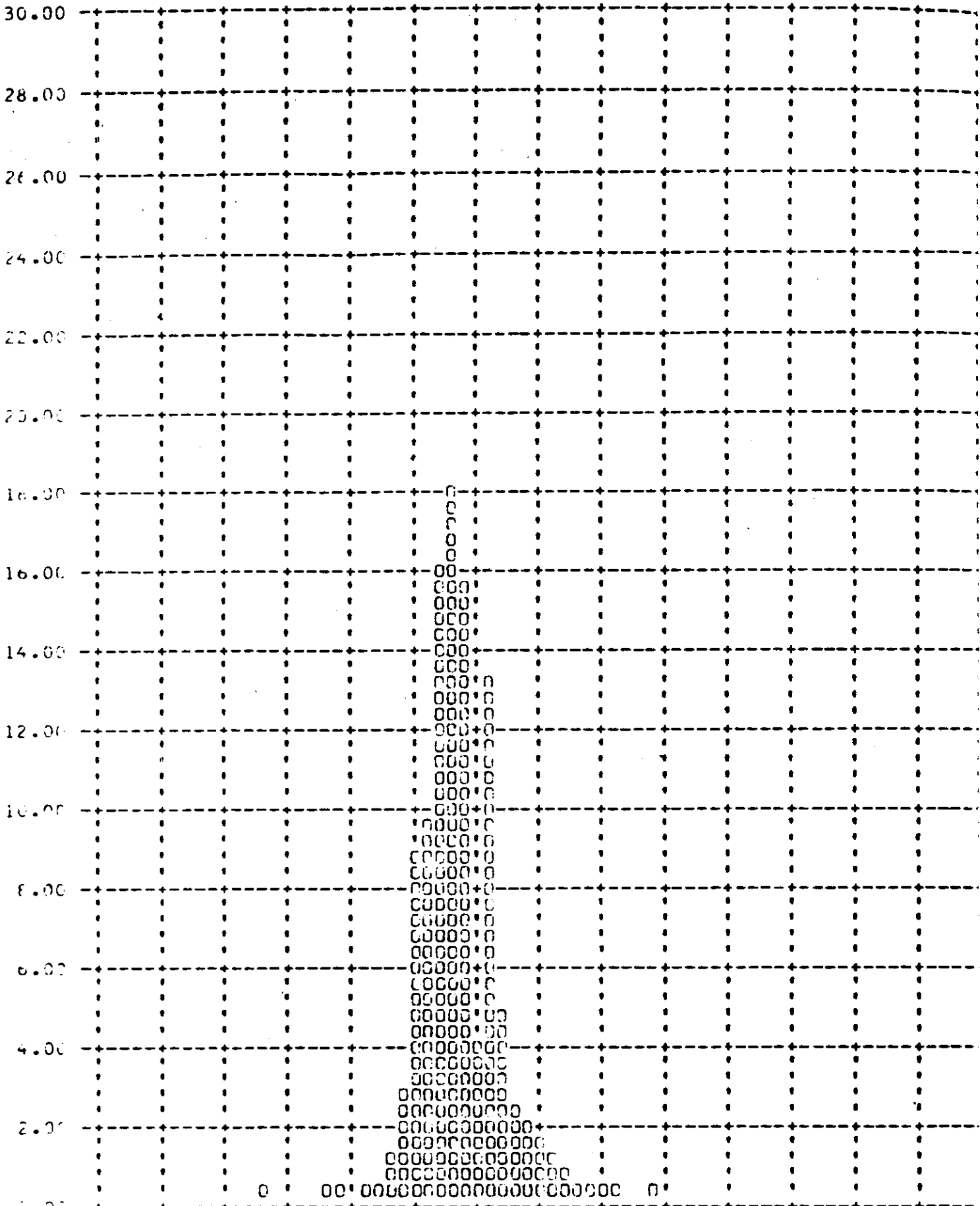
Y PITCH RATE ERROR - DEG/HOUR (X) VERSUS FREQUENCY - PERCENT (Y)



Y ROLL RATE ERROR - DEG/HOUR (X) VERSUS FREQUENCY - PERCENT (Y)



YAW RATE ERROR - DEG/HOUR (X) VERSUS FREQUENCY - PERCENT (Y)



SECTION 12

IMAGE SMEAR ANALYSIS

The frame correlation tape supplied to A/P by NPIC contains the binary time word of each frame of photography. A computer program has been assembled at A/P which calculates the exposure time of each frame and compares the camera cycle rate with the ephemeris to calculate the V/h mismatch. This data is combined with the vehicle attitude error and rate values of each frame and the crab error caused by earth rotation at the latitude of each frame. The program outputs the total along track and cross track IMC error and the limit of ground resolution that can be acquired by a camera regardless of focal length and system capabilities.

The computer rejects the first six frames of all operations as the large V/h error induced by camera start-up is not representative of the overall system operations. The frequency distribution of the V/h errors and resolution limits are computer plotted and are shown in Figures 12-1 through 12-16.

The summary table 12-1 presents the maximum V/h ratio errors and resolution limits that existed during 90% of the photographic operations and the total range of values during all operations that were computed.

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MISSION 1035

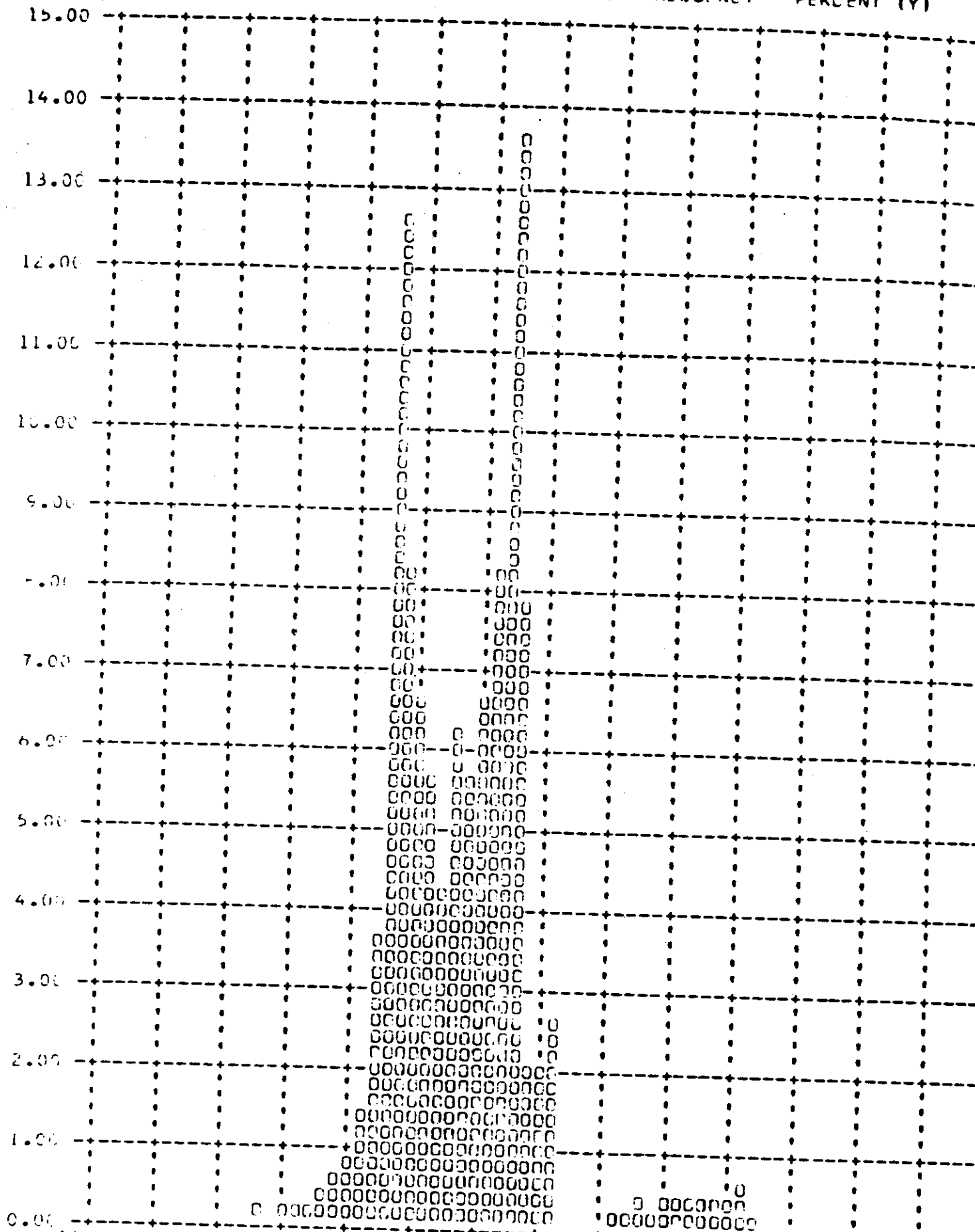
V/h RATIO AND RESOLUTION LIMITS

<u>VALUE</u>	<u>UNITS</u>	<u>CAMERA</u>	<u>MISSION 1035-1</u>		<u>MISSION 1035-2</u>	
			<u>90%</u>	<u>Range</u>	<u>90%</u>	<u>Range</u>
V/h Ratio Error	%	FWD	3.99	-8.5 to +11.0	3.21	-5.8 to +3.2
		AFT	4.06	-7.5 to +11.0	3.35	-5.0 to +2.8
Along Track Resolution Limit	Feet	FWD	4.80	0.5 to 14.5	4.04	0.2 to 8.6
		AFT	3.73	0.2 to 10.4	3.26	0.2 to 5.8
Cross Track Resolution Limit	Feet	FWD	3.65	0.2 to 6.2	3.50	0.2 to 5.2
		AFT	2.39	0.2 to 4.4	2.36	0.2 to 3.6

TABLE 12-1

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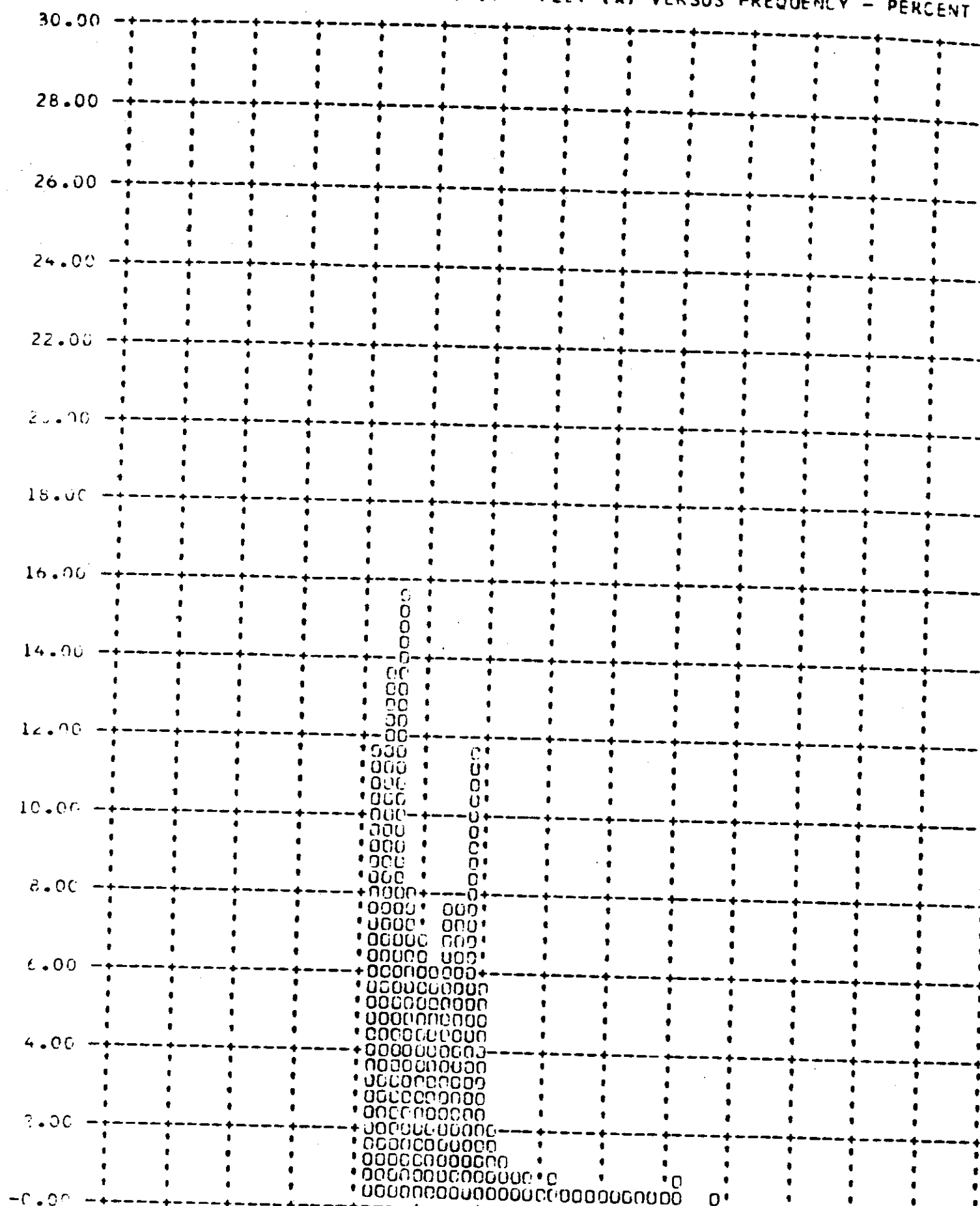
Y V/H RATIO ERROR - PERCENT (X) VERSUS FREQUENCY - PERCENT (Y)



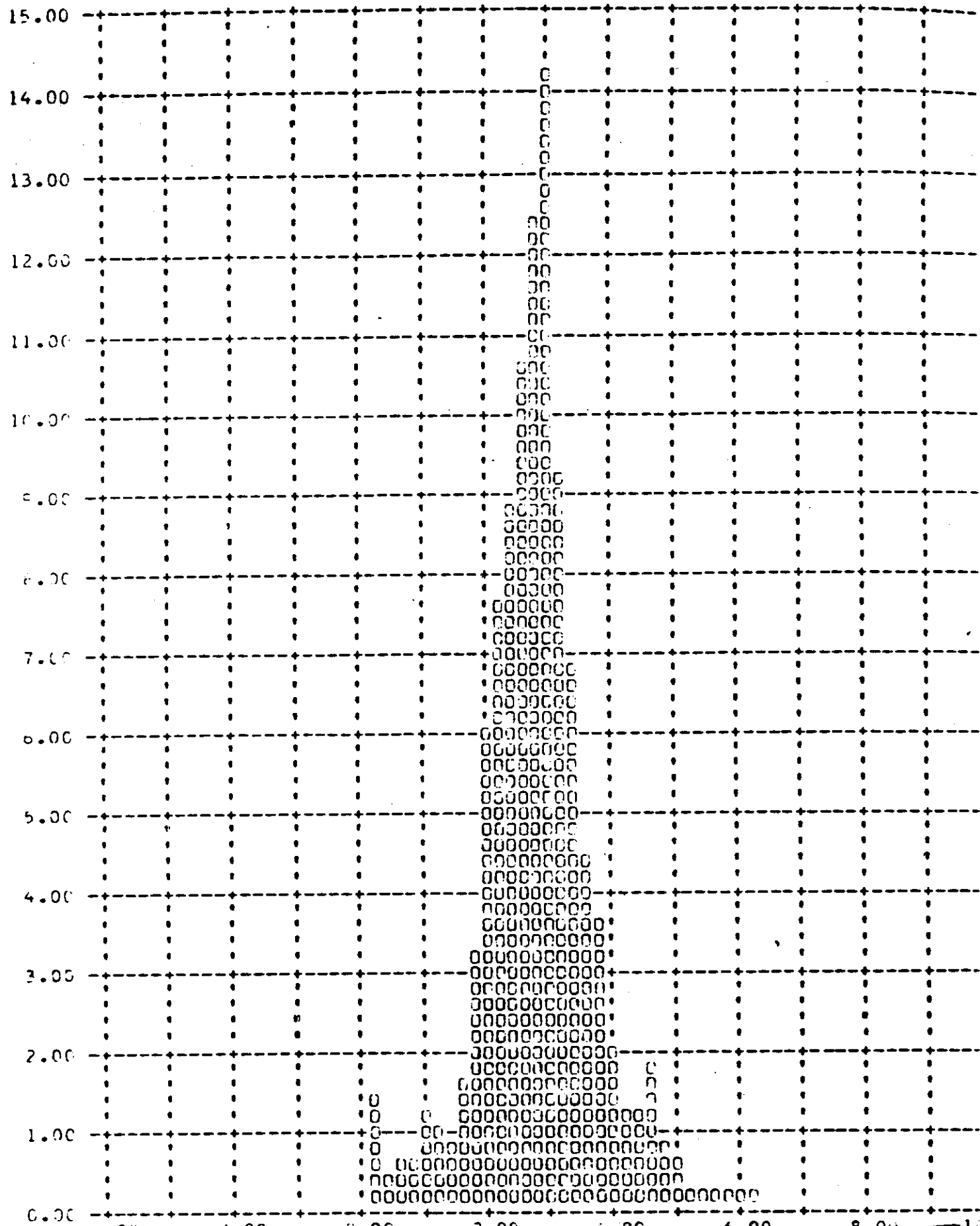
-15.00 -10.00 -5.00 0.00 5.00 10.00 15.00 20.00

MISSION 103541 TOP SECRET CONTROLING

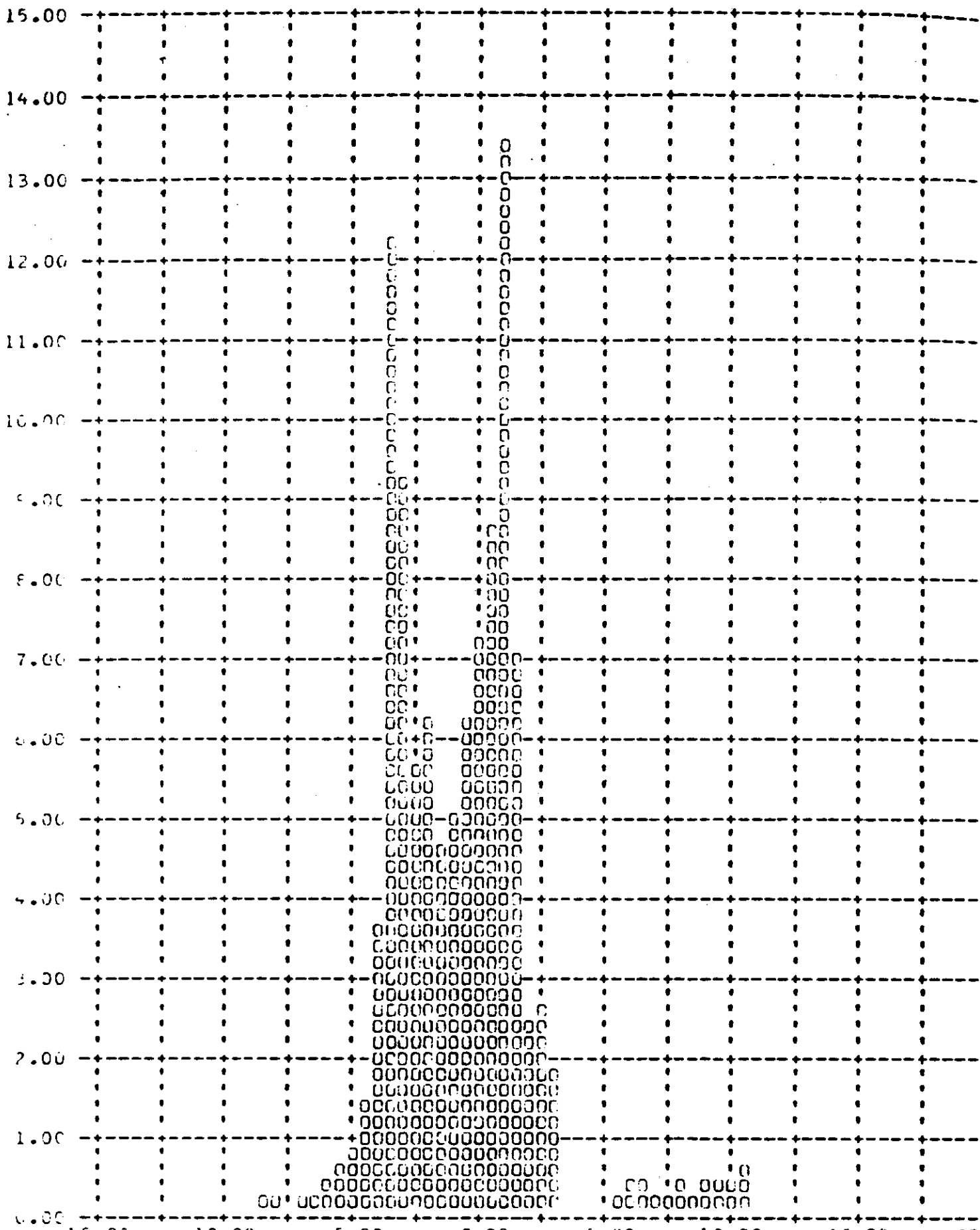
Y ALONG TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT



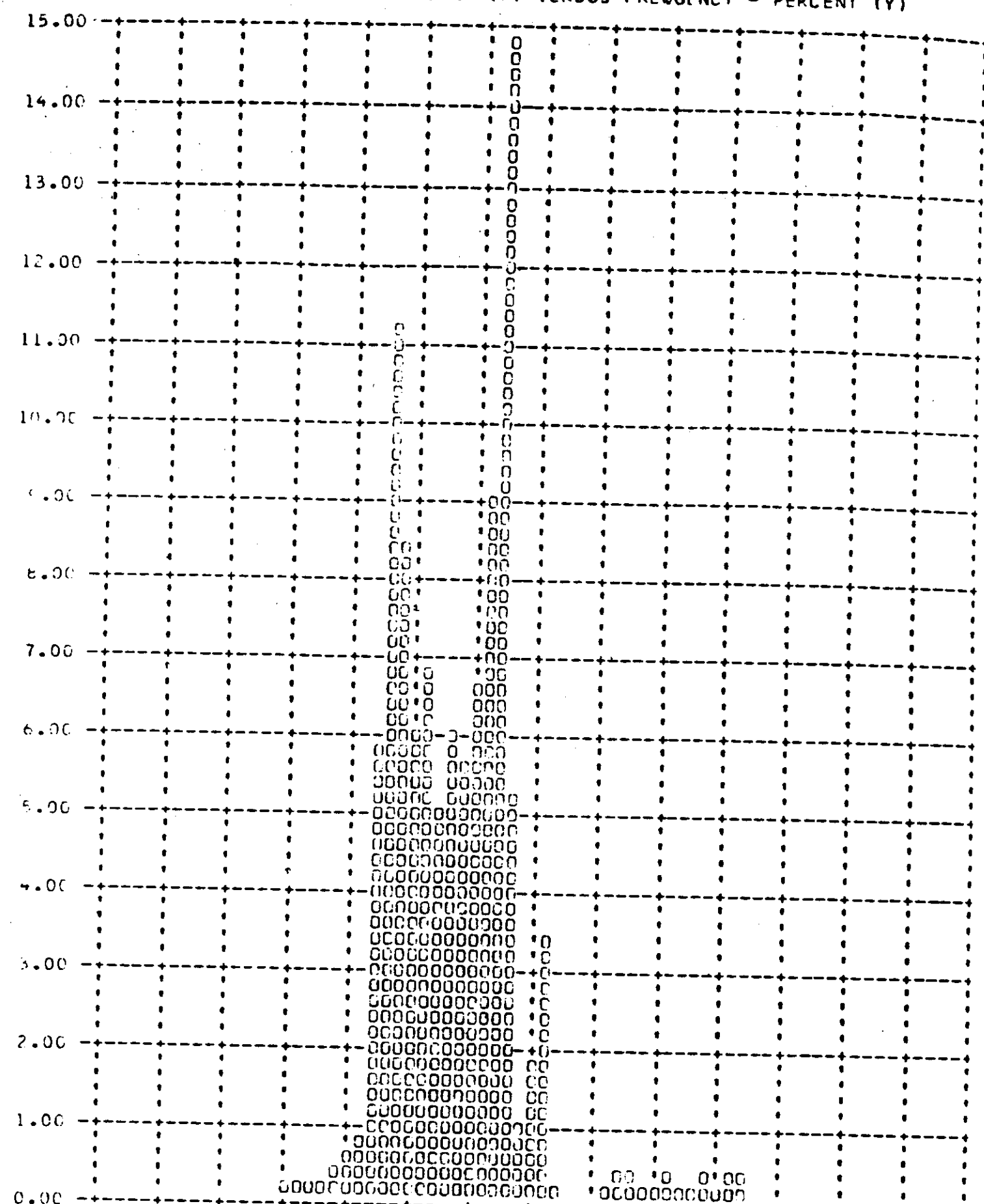
Y CROSS TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (



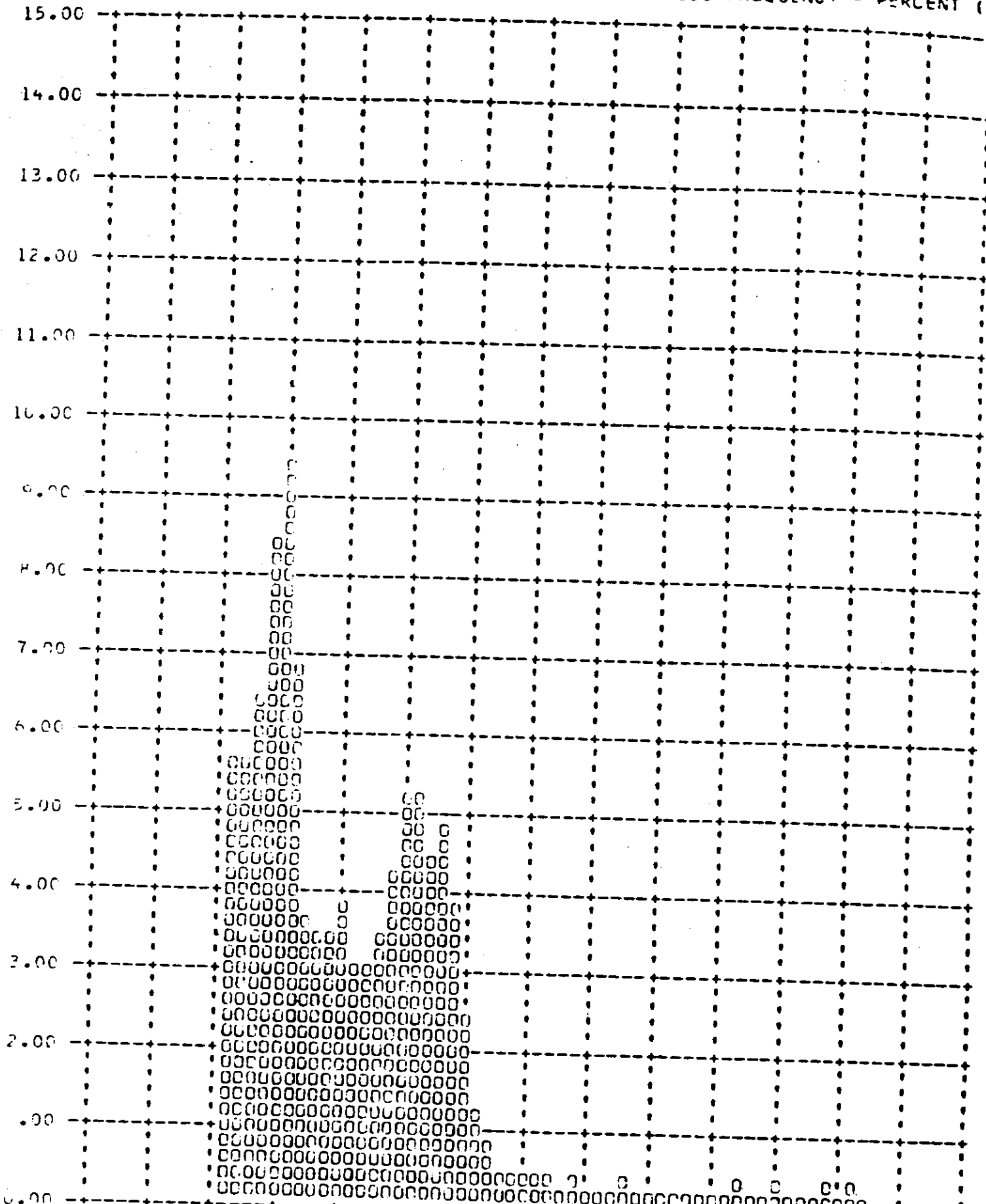
Y IMC ERROR -- PERCENT (X) VERSUS FREQUENCY (Y)



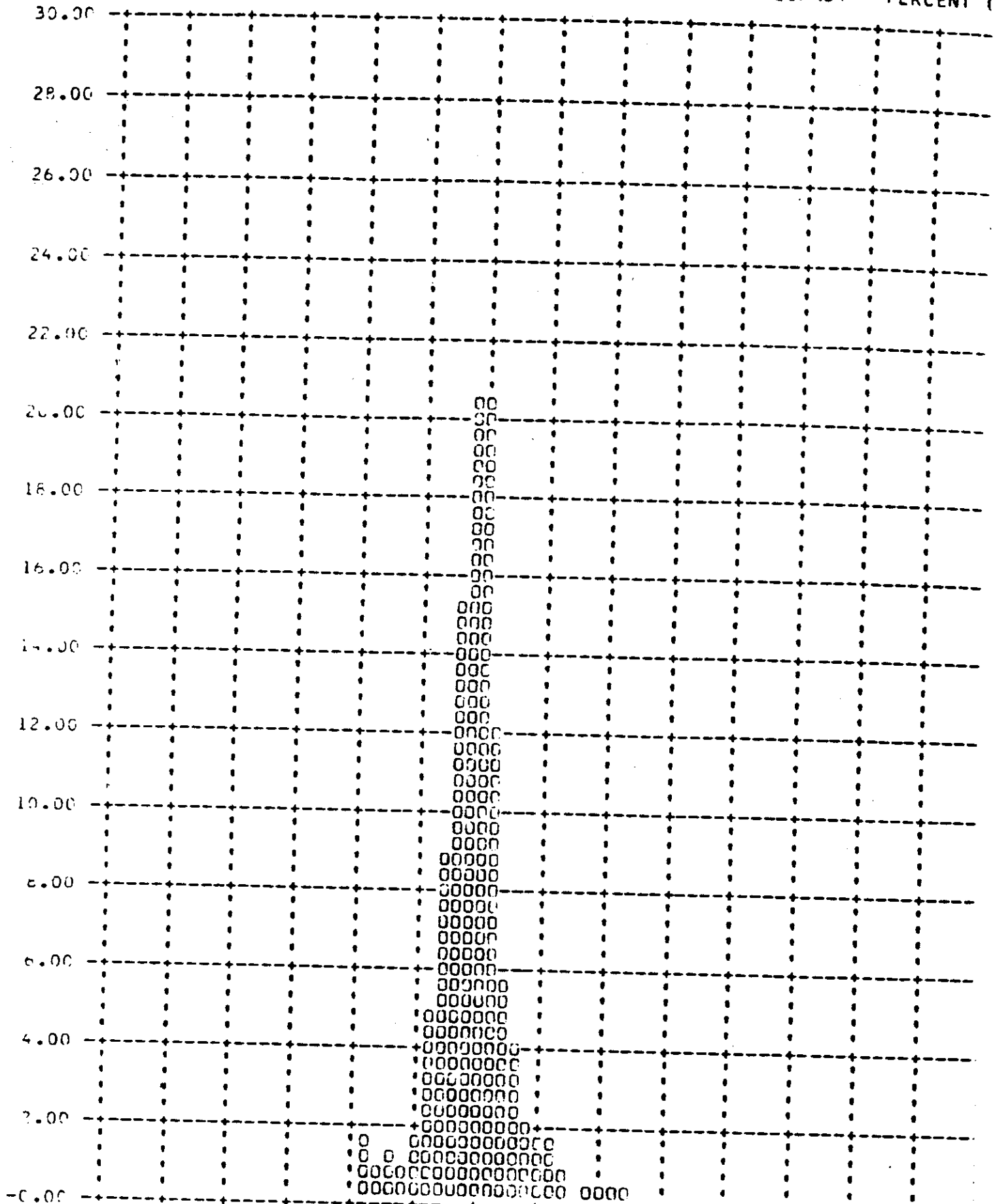
Y V/H RATIO ERROR - PERCENT (X) VERSUS FREQUENCY - PERCENT (Y)



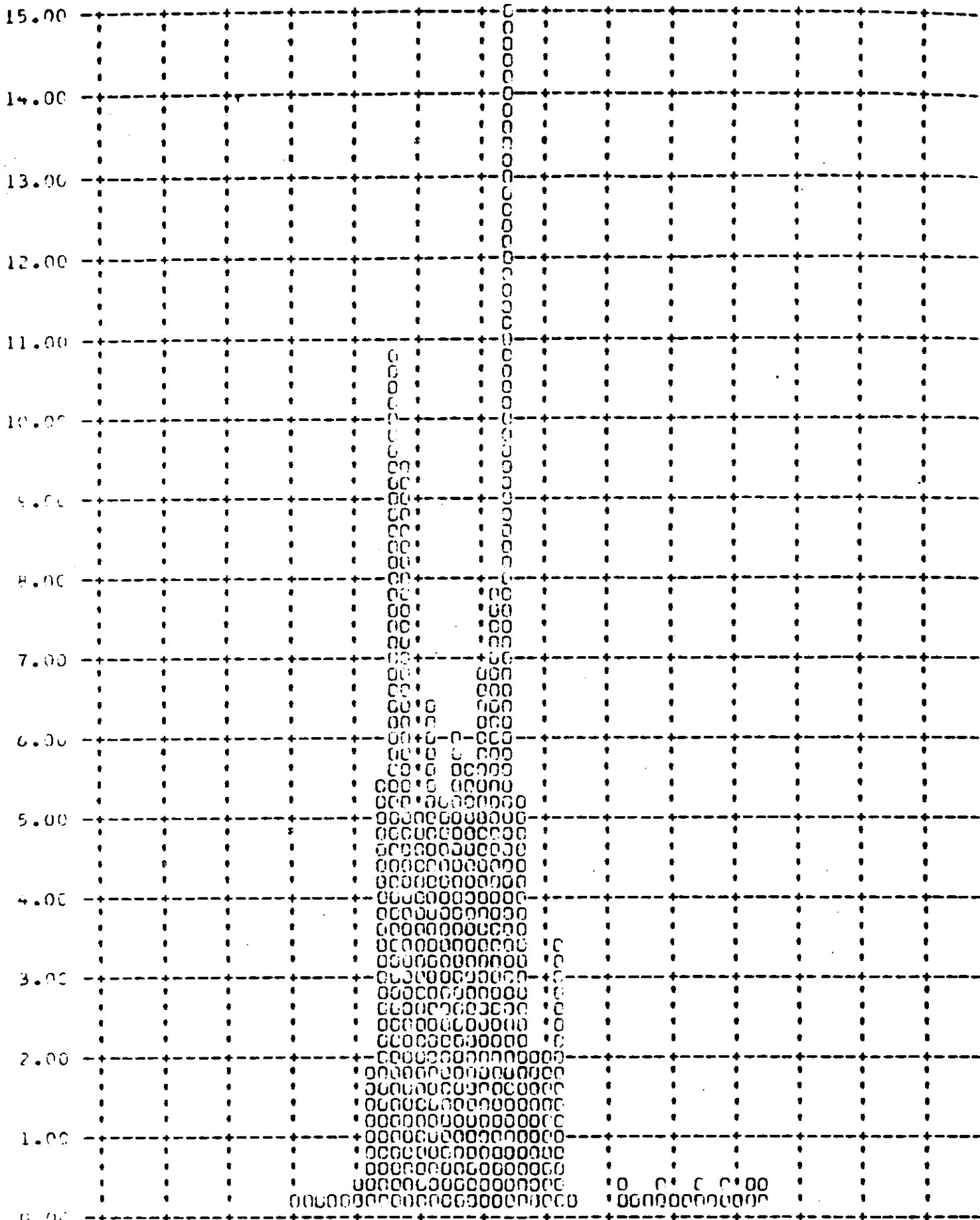
Y ALONG TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (



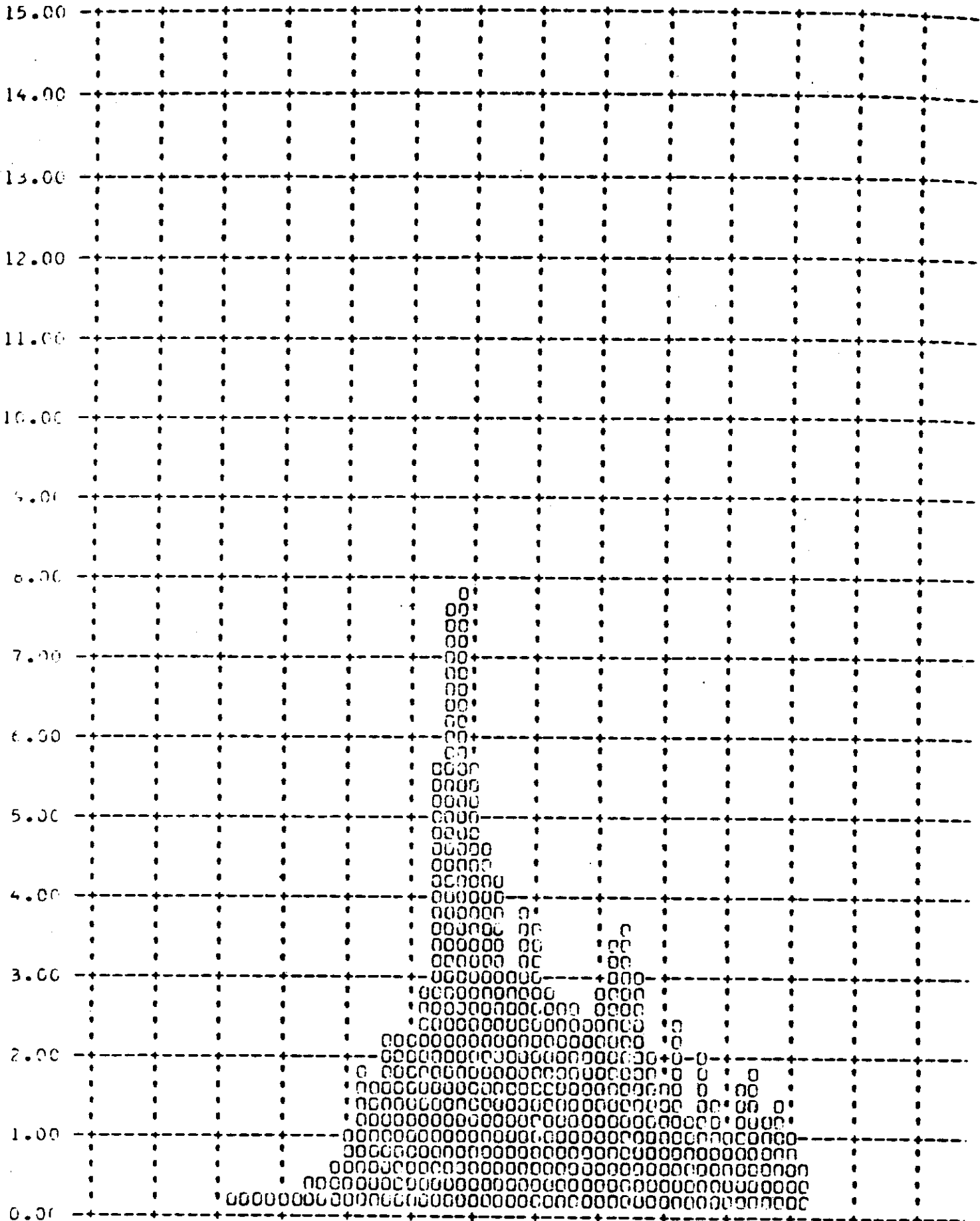
Y CROSS TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (



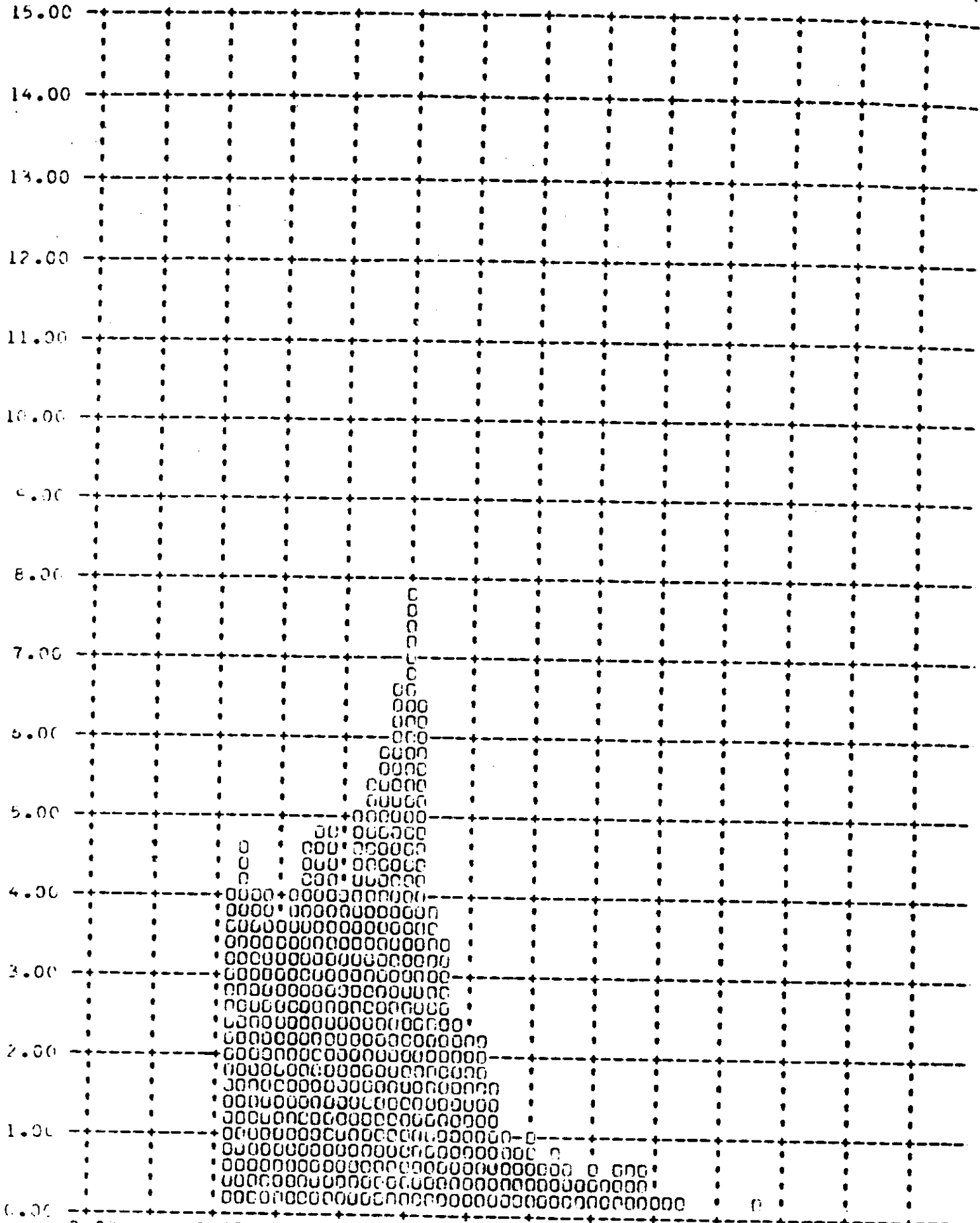
Y IMC ERROR -- PERCENT (X) VERSUS FREQUENCY (Y)



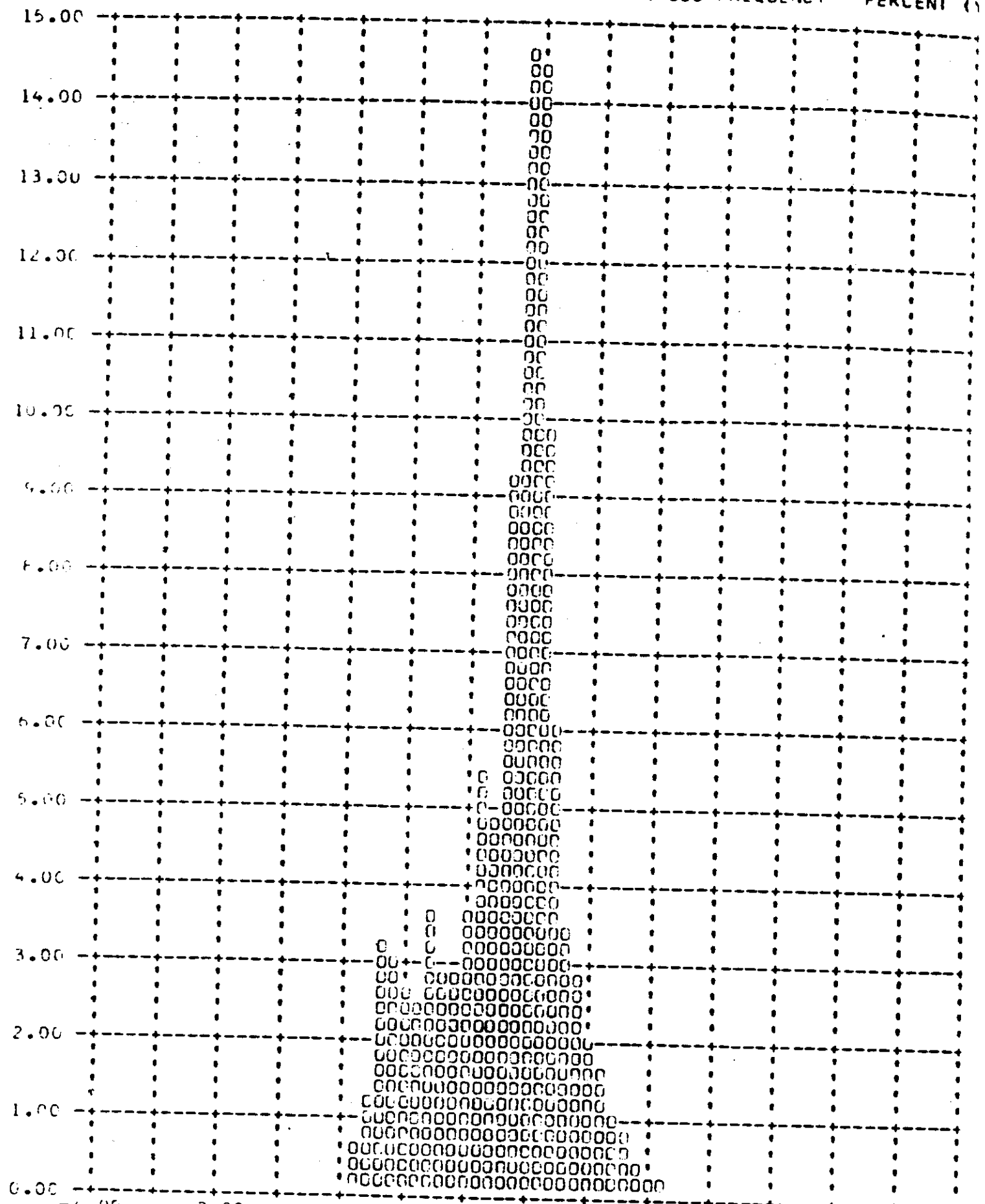
Y V/H RATIO ERROR - PERCENT (X) VERSUS FREQUENCY - PERCENT (Y)



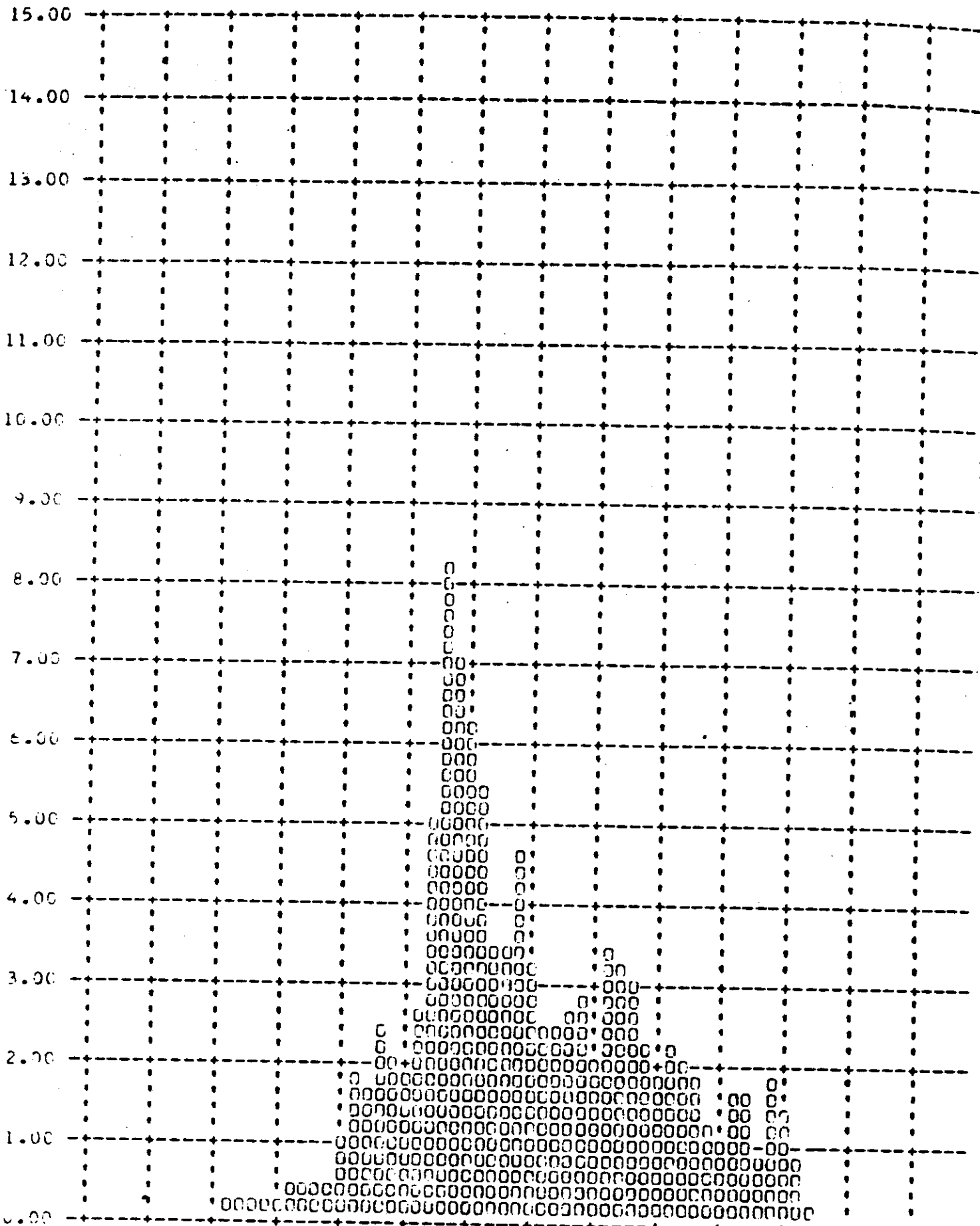
Y ALONG TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (



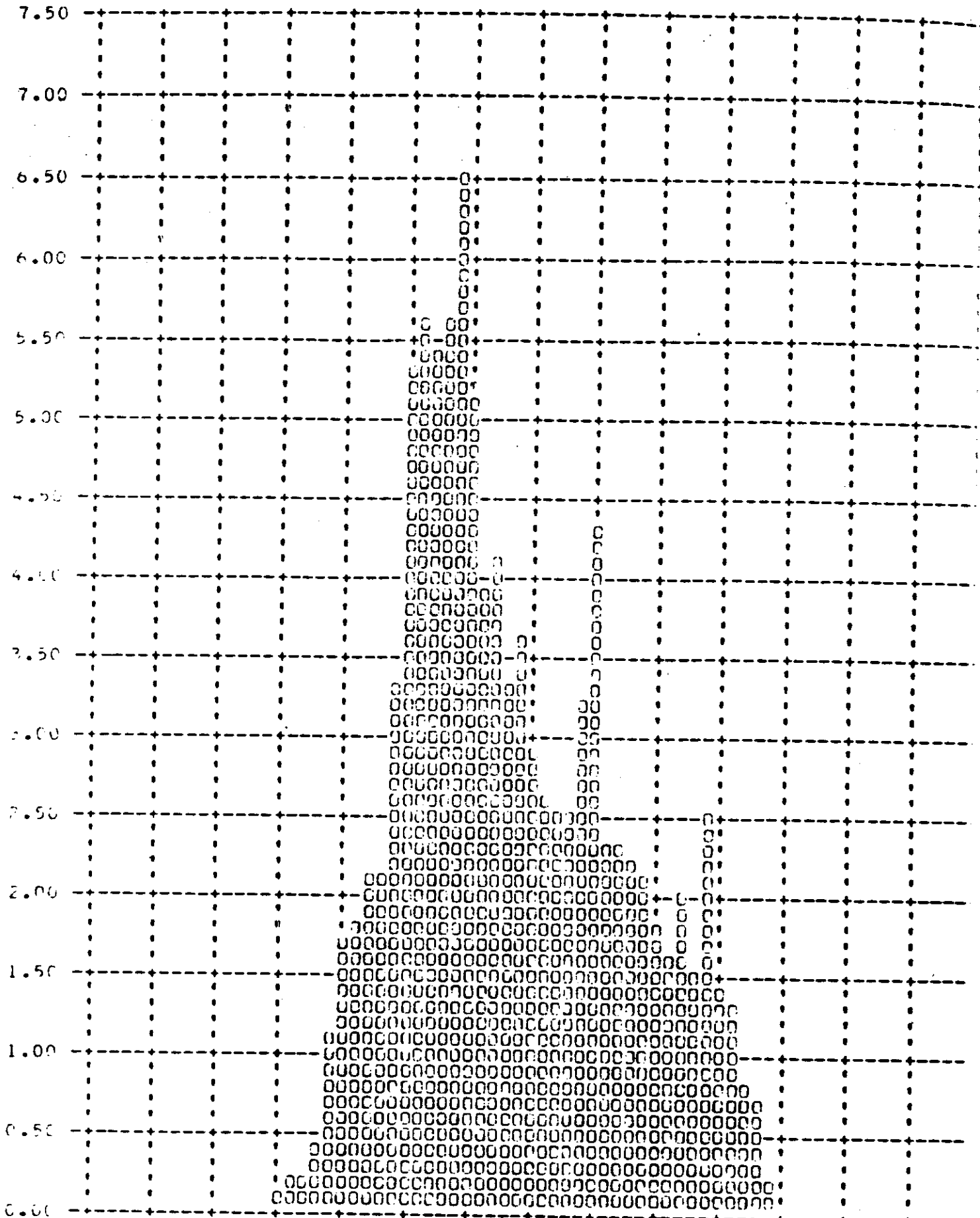
Y CROSS TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (Y)



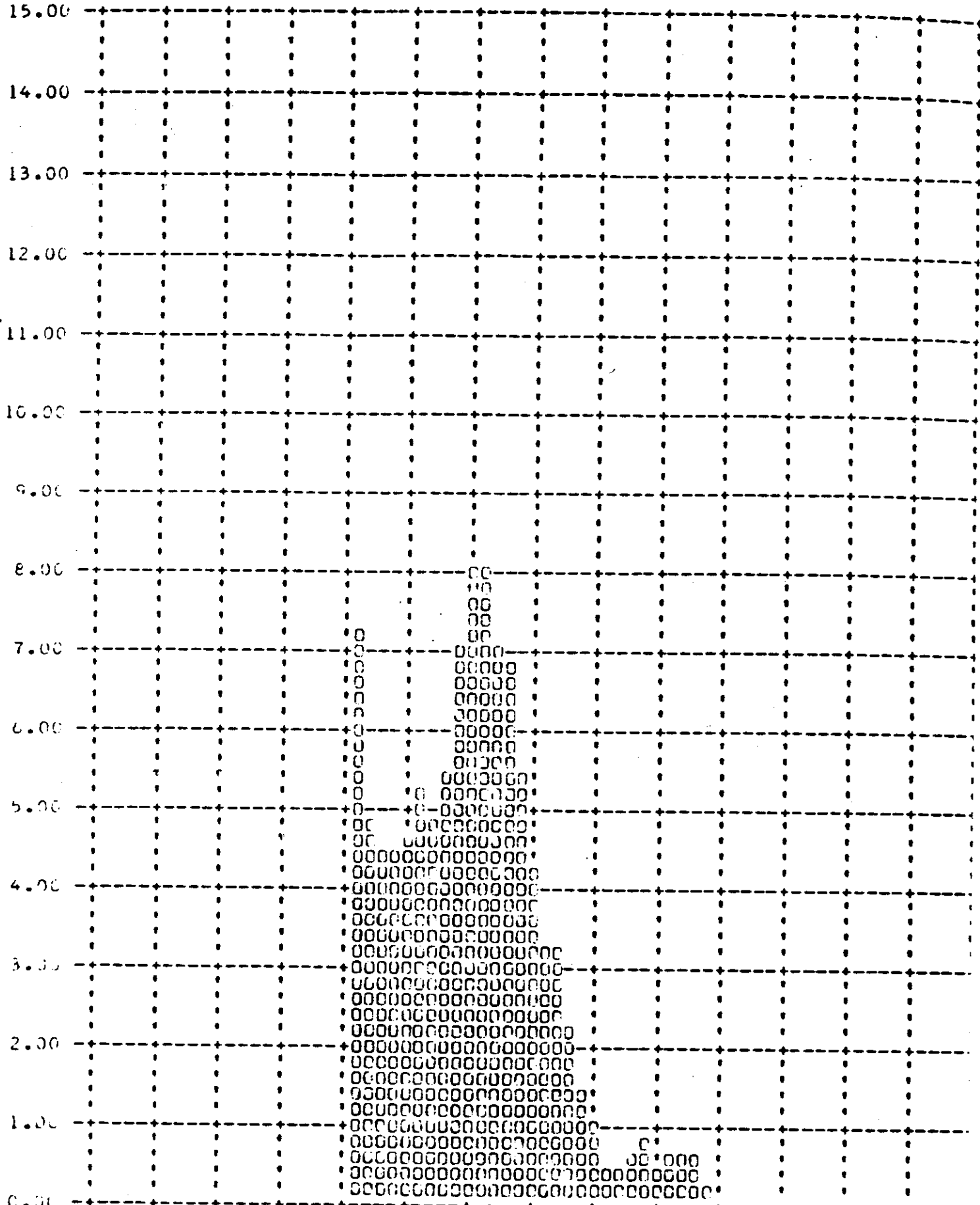
Y IMC ERROR -- PERCENT (X) VERSUS FREQUENCY (Y)



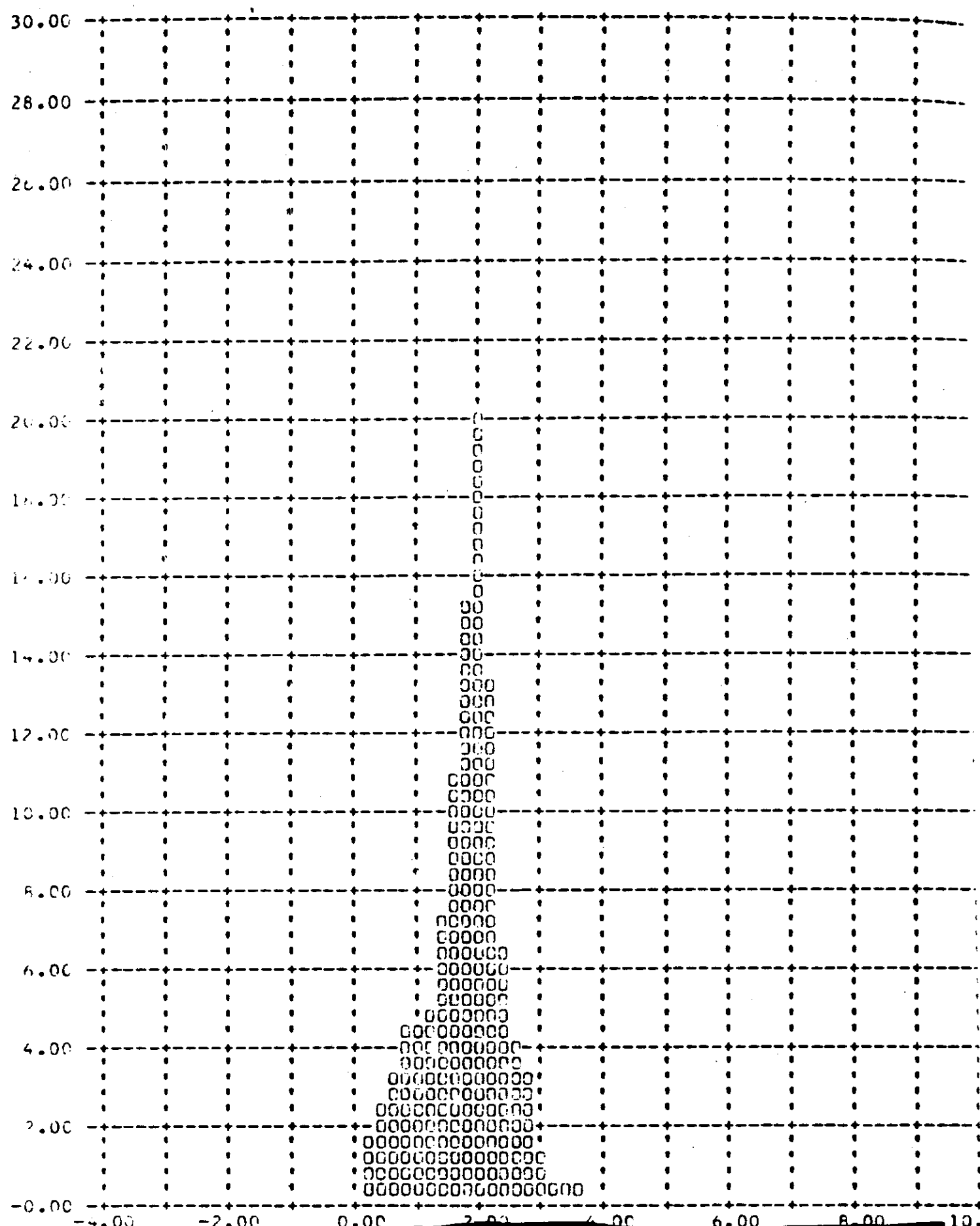
Y V/H RATIO ERROR - PERCENT (X) VERSUS FREQUENCY - PERCENT (Y)



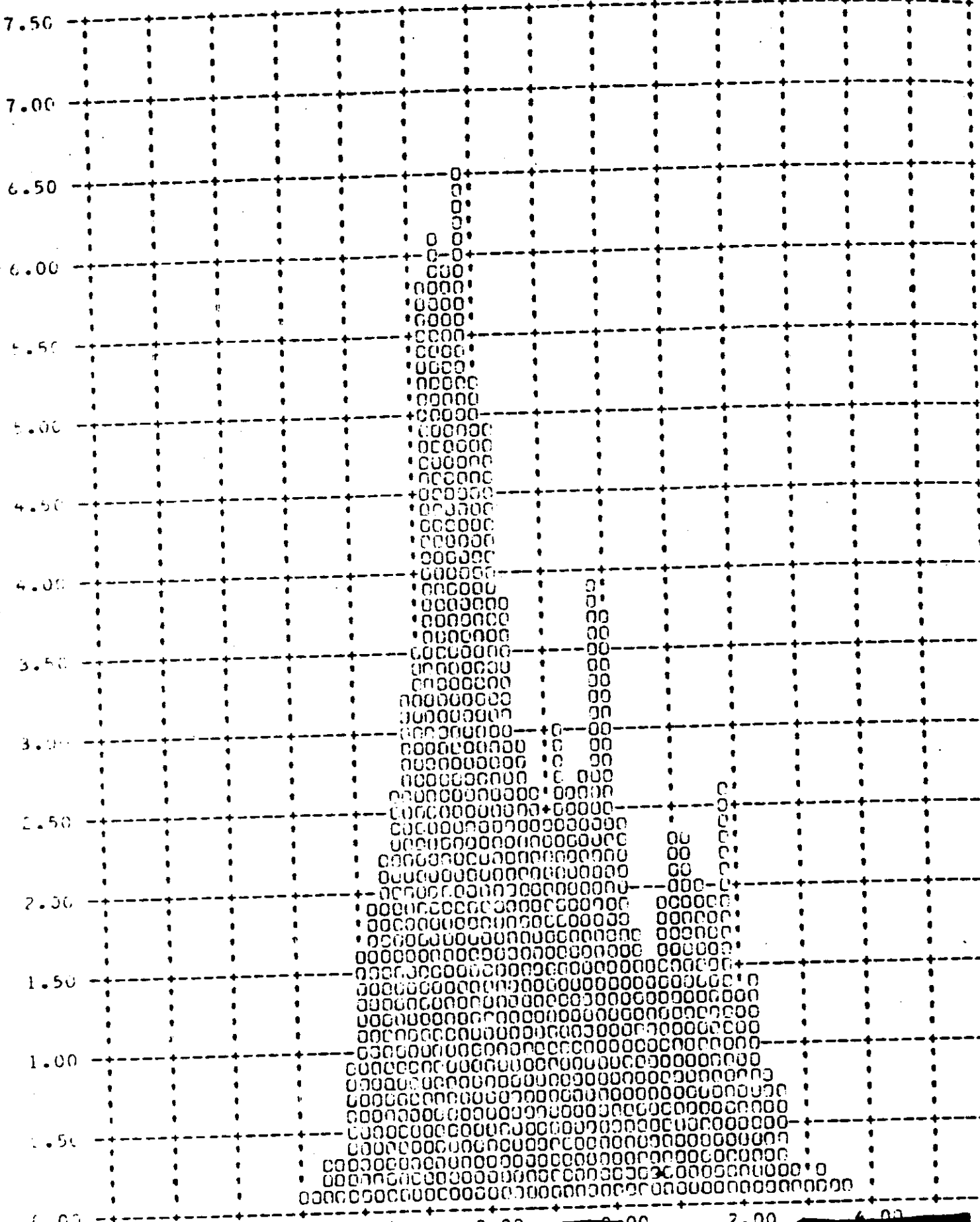
Y ALONG TRACK RESOLUTION LIMIT - FEET (X) VERSUS FREQUENCY - PERCENT (Y)



Y CROSS TRACK RESOLUTION LIMIT - FEET () VERSUS FREQUENCY - PERCENT



IMC ERROR -- PERCENT (X) VERSUS FREQUENCY (Y)



SECTION 13

RADIATION DOSAGE

Each recovery system flown on a Corona mission contains a sealed packet of Eastman Type 3401 and Royal X Pan emulsions to determine the total radiation received at the take-up cassette. Both film types have been irradiated by LMSC at various levels and the base plus fog densities recorded after controlled processing.

Following recovery the film dosimeter packets are removed at A/P and processed with a pre-flight sample of the same film type and sensitometric control film. The resulting base plus fog density measurement of the dosimeter strips is used to ascertain the total radiation level. The table below presents the base plus fog readings for the dosimeter strips and the radiation level equivalents.

<u>Emulsion</u>	<u>Mission 1035-1</u>		<u>Mission 1035-2</u>	
	<u>B + F Density</u>	<u>Radiation</u>	<u>B + F Density</u>	<u>Radiation</u>
Type 3401	0.21	0.7 R	0.25	1.2R
Royal X Pan	0.27	0.5 R	0.32	0.7 R

These levels are below that which will degrade the photography.

SECTION 14

SYSTEM RELIABILITY

Reliability calculations for the payload are based on a sample beginning with M-7. Hence both the major part of the Mural Program and the "J" Program are covered in the calculation. For certain auxiliaries, i.e., the stellar-index camera and the horizon cameras, the sample size is changed to recognize incorporation of modified equipment or new designs where reliability was one of the principal reasons for the modification. However, for primary mission function, the sample size is consistent with reliability reporting for the vehicle.

The reliability estimates of this section deal exclusively with the payload. Failures to achieve orbit or vehicle induced failures are thereby excluded. Recoveries before a complete mission has been completed are considered as full missions providing that early termination was caused by reasons not connected with payload operation. Film quality is not considered in the reliability estimate calculation. Hence, only electrical and mechanical functioning are considered.

The reliability estimate is also divided into primary and secondary functions. The primary functions are operation of the panoramic cameras, main camera door operation, operation of the payload clock, and recovery operations. The secondary mission functions are horizon camera operation excluding catastrophic open shutter failure mode, auxiliary data recording, and stellar-index camera operation. A summary of estimated reliability is shown in Tables 14-1.

Panoramic Camera Reliability

Sample Size - 159 opportunities to operate.
One failure - S/I programmer on System J-19.
Assume - 3000 cycles per camera per mission.
Estimated Reliability = 99.0% at 50% confidence level.

Main Camera Door Reliability

Sample Size - 53 vehicles x 2 doors = 106 opportunities to operate
Estimated Reliability = 99.4% at 50% confidence level

Payload Command and Control

Sample Size - 8760 hours operation in sample
Two failures
Estimated Reliability = 97.1% at 50% confidence level

Payload Clock Reliability

Sample Size - 8760 hours operation in sample
No failures
Estimated Reliability = 99.2% at 50% confidence level

Estimated Reliability of Payload Functioning on orbit = 97.4% at
50% confidence level

Recovery System Reliability

71 opportunities to recover
1 failure - improper separation due to water seal - cutter failure
Estimated Reliability = 97.6% at 50% confidence level

Stellar-Index Camera Reliability

Sample begins with J5
Sample size = 21,680 cycles
Four failures
Estimated Reliability = 91.3 at 50% confidence level

Horizon Camera Reliability

Sample begins with J5 - 28,500 cycles
Estimated Reliability of Single Camera = 98.8% at 50% confidence level
Estimated Reliability of Four Horizon Cameras at a Parallel
Redundant System = 99.9% at 50% confidence level.

TOP SECRET
NO.

ESTIMATED RELIABILITY SUMMARY (AT 50% CONFIDENCE LEVEL)

MISSION NUMBER	PRIMARY FUNCTIONS						ON-ORBIT FUNCTIONS			RECOVERY SYSTEM		STELLAR - INDEX CAMERAS		HORIZON CAMERAS	
	PANORAMIC CAMERA SAMPLES	PANORAMIC CAMERA DOORS SAMPLES	COMMAND & CONTROL SYSTEM SAMPLES	PAYLOAD CLOCK SAMPLES	ON-ORBIT RELIABILITY	RECOVERY SYSTEM SAMPLES	STELLAR - INDEX CAMERAS SAMPLES	HORIZON CAMERAS SAMPLES	RELIABILITY	FAILURES	RELIABILITY	FAILURES	RELIABILITY	FAILURES	
1008	52	3124	3124	3124	98.1	16	3400	90.7	3	33.1	12,000	0	91.7		
1009	54	3216	3216	3216	98.2	20	4250	91.5	3	89.3	15,000	0	93.4		
1010	56	3432	3432	3432	98.4	22	5100	92.8	3	73.7	18,000	0	94.4		
1011	56	3600	3600	3600	98.6	24	5525	93.0	0	94.7	21,000	0	96.2		
1012	60	3720	3720	3720	98.9	26	5525	93.8	0	94.7	24,000	0	96.8		
1013	62	3840	3840	3840	98.2	28	5930	94.0	0	92.1	26,500	0	96.0		
1014	64	4056	4056	4056	98.1	30	6373	94.4	1	89.8	28,500	0	96.4		
1015	66	4320	4320	4320	98.1	32	7228	94.8	1	90.4	31,500	0	96.7		
1016	68	4580	4580	4580	98.4	34	7680	95.2	1	91.0	34,500	0	97.0		
1017	70	4760	4760	4760	98.8	36	8223	95.4	1	92.3	37,500	0	97.3		
1018	72	4920	4920	4920	98.7	38	8900	96.6	1	96.3	40,500	0	97.5		
1019	74	5136	5136	5136	98.7	39	9075	96.8	1	91.6	43,500	0	97.6		

NO. 1000 SAMPLES OUT OF 100000

NO. [REDACTED]

ESTIMATED RELIABILITY SUMMARY

(AT 50% CONFIDENCE LEVEL)

MISSION NUMBER	PRIMARY FUNCTIONS						ON-ORBIT FUNCTIONS			RECOVERY SYSTEM			SECONDARY - FUNCTIONS				
	PANORAMIC CAMERA SAMPLE FAILURES	PANORAMIC CAMERA RELIABILITY	PANORAMIC CAMERA DOORS SAMPLE FAILURES	PANORAMIC CAMERA RELIABILITY	COMMAND & CONTROL SYSTEM SAMPLE FAILURES	COMMAND & CONTROL SYSTEM RELIABILITY	PAYLOAD CLOCK SAMPLE FAILURES	PAYLOAD CLOCK RELIABILITY	ON-ORBIT FUNCTIONS RELIABILITY	RECOVERY SYSTEM SAMPLE FAILURES	RECOVERY SYSTEM RELIABILITY	STELLAR INDEX CAMERAS SAMPLE FAILURES	STELLAR INDEX CAMERAS RELIABILITY	HORIZON CAMERAS SAMPLE FAILURES	HORIZON CAMERAS RELIABILITY		
1020	108	98.5	78	99.1	5544	97.1	5544	0	98.9	43	96.1	10,680	2	89.9	48,000	0	97.9
1021	104	98.5	76	99.1	5376	97.0	5376	0	98.6	41	96.0	9830	2	89.1	48,500	0	97.8
1022	112	98.5	80	99.2	5784	97.3	5784	0	98.9	45	96.3	11,550	2	90.7	51,000	0	98.0
1023	114	98.6	82	99.2	6000	95.8	6000	0	98.9	47	96.5	12,190	2	91.1	54,000	0	98.1
1024	116	98.6	84	99.2	6240	96.0	6240	0	98.9	49	96.6	13,040	2	91.6	57,000	0	98.2
1025	122	98.6	96	99.2	6480	96.1	6480	0	99.0	51	96.7	13,890	2	92.1	60,000	0	98.3
1026	126	98.7	88	99.2	6720	96.3	6720	0	99.0	53	96.8	14,740	2	92.6	63,000	0	98.4
1027	128	98.7	90	99.2	6744	96.3	6744	0	99.0	55	97.0	15,165	3	90.0	64,500	0	98.4
1028	132	98.7	92	99.2	6960	96.4	6960	0	99.0	57	97.1	16,015	3	88.7	67,500	0	98.4
1029	136	98.8	94	99.3	7200	96.5	7200	0	99.1	59	97.1	16,580	4	88.7	70,500	0	98.5
1030	140	98.9	96	99.3	7440	96.6	7440	0	99.1	61	97.2	17,430	4	89.3	73,500	0	98.6
1031	143	98.9	98	99.3	7704	96.6	7704	0	99.1	63	97.2	18,280	4	89.3	76,500	0	98.6

CONFIDENTIAL

NO.

ESTIMATED RELIABILITY SUMMARY

(AT 50% CONFIDENCE LEVEL)

MISSION NUMBER	PRIMARY FUNCTIONS						SECONDARY FUNCTIONS																
	PANORAMIC CAMERA		PANORAMIC CAMERA DOORS		COMMAND & CONTROL SYSTEM		PAYLOAD CLOCK		ON-ORBIT FUNCTIONS		RECOVERY SYSTEM		STELLAR - INDEX CAMERAS		HORIZON CAMERAS								
	SAMPLE	FAILURES	RELIABILITY	SAMPLE	FAILURES	RELIABILITY	SAMPLE	FAILURES	RELIABILITY	RELIABILITY	SAMPLE	FAILURES	RELIABILITY	SAMPLE	FAILURES	RELIABILITY							
1033	147	1	98.9	100	0	100	7968	2	96.8	7968	0	100	97.1	65	1	97.4	19,130	4	90.2	79,500	0	100	98.7
1034	151	1	98.9	102	0	100	8208	2	96.9	8208	0	100	97.2	67	1	97.5	19,980	4	90.5	82,500	0	100	98.7
1035	159	1	99.0	106	0	100	8760	2	97.1	8760	0	100	97.4	71	1	97.6	21,680	4	91.3	88,500	0	100	98.8

SECTION 15

SUMMARY DATA

The comparison of the operating parameters and the performance achieved by previous missions has been difficult due to the large volume of data that results from each mission. Some of the pertinent characteristics from prior missions have been summarized in Tables 15-1 through 15-3.

The summary data was started with Mission 1004 as the J-05 camera system was the first to incorporate the major modifications of the titanium drum and scan arm, four roller scan head and Corona J capabilities. Only those missions that culminated in the recovery of some photography have been listed, therefore Mission 1003, 1005 and 1032 are deleted.

SECRET
NO.

MISSION SUMMARY

MISSION NUMBER	PAYLOAD NUMBER	VEHICLE NUMBER	LAUNCH DATE	LAUNCH TIME	ORBIT INCLINATION (°)	PERIGEE		RECOVERY PASS	MASTER CAMERA		SLAVE CAMERA		STELLAR-INDEX CAMERA NUMBER			
						ALTITUDE (NM)	LOCATION (°M)		CAMERA NUMBER	SPLIT FILTER TYPE	CAMERA NUMBER	SPLIT FILTER TYPE				
1004	J-05	1174	2/19/64	2138 Z	74.9	99.9	29.0	49	124	0.250	W-21	125	0.250	W-21	029/29/29	042/42/37
1006	J-09	1176	6/4/64	2259 Z	79.9	84.0	63.2	65	148	0.200	W-21	149	0.200	W-21	043/47/45	049/53/42
1007	J-07	1609	6/19/64	2318 Z	85.0	99.2	41.5	65	144	0.250	W-25	145	0.200	W-21	043/43/43	054/56/51
1008	J-10	1177	7/10/64	2314 Z	85.0	99.4	40.8	49	112	0.200	W-21	151	0.200	W-21	048/45/48	033/28/33
1009	J-12	1605	8/5/64	2316 Z	60.1	99.6	39.5	49	128	0.200	W-21	155	0.200	W-21	038/54/56	038/38/34
1010	J-11	1178	9/14/64	2254 Z	84.9	97.4	42.5	65	144	0.175	W-21	153	0.175	W-21	041/41/41	044/46/44
1011	J-3X	1170	10/5/64	2150 Z	79.9	99.3	20.9	65	160	0.175	W-21	161	0.175	W-21	030/30/30	057/57/57
1012	J-13	1179	10/17/64	2202 Z	75.0	96.2	32.4	49	81	0.200	W-21	157	0.200	W-21	051/51/47	048/52/53
1013	J-15	1173	11/2/64	2150 Z	80.0	100.0	25.0	65	81	0.225	W-21	159	0.225	W-21	052/49/55	047/48/54
1014	J-16	1180	11/18/64	2036 Z	70.0	103.2	65.6	81	145	0.250	W-25	159	0.175	W-21	053/58/49	050/44/48
1015	J-17	1607	12/19/64	2110 Z	74.9	96.7	21.5	81	175	0.250	W-25	141	0.175	W-21	061/61/61	058/58/58
1016	J-18	1608	1/15/65	2101 Z	74.9	99.4	30.2	81	159	0.250	W-25	133	0.175	W-21	055/55/50	059/50/59
1017	J-14	1611	2/25/65	2144 Z	75.0	97.2	25.9	81	145	0.250	W-25	165	0.175	W-21	021/21/21	060/61/1
1018	J-19	1612	3/25/65	2111 Z	86.0	100.2	40.3	66	99	0.250	W-25	123	0.175	W-21	020/20/20	022/22/22
1019	J-04	1614	4/29/65	2144 Z	85.0	99.1	27.1	80	118	0.250	W-25	119	0.175	W-21	039/39/39	019/18/19
1020	J-20	1613	6/9/65	2158 Z	75.1	97.1	40.8	97	113	0.250	W-25	137	0.175	W-21	067/65/60	062/65/63
1021	J-21	1615	5/16/65	1803 Z	75.0	109.2	24.3	81	161	0.175	W-21	167	0.250	W-25	063/69/69	025/27/25
1022	J-22	1617	7/19/65	2201 Z	85.0	99.7	30.3	65	144	0.250	W-25	169	0.175	W-21	065/77/70	024/24/24
1023	J-23	1618	8/17/65	2100 Z	70.0	97.8	29.0	81	144	0.225	W-25	171	0.150	W-21	017/19/82	066/75/72
1024	J-24	1619	9/22/65	2131 Z	60.0	95.9	18.4	81	161	0.225	W-25	173	0.150	W-21	069/72/64	064/62/66
1025	JX-28	1616	10/9/65	1746 Z	75.0	112.9	44.9	81	161	0.175	W-21	127	0.175	W-21	073/78/68	070/68/61
1026	J-25	1620	10/29/65	2117 Z	75.0	93.0	17.0	81	160	0.225	W-25	175	0.150	W-21	075/72/73	072/69/65
1027	JX-27	1621	12/9/65	2110 Z	80.0	97.4	17.3	17	33	0.250	W-25	163	0.175	W-21	071/67/67	068/74/63
1028	J-26	1610	12/24/65	2106 Z	80.0	97.6	26.4	81	144	0.250	W-25	177	0.175	W-21	077/91/97	074/76/95

012/000
0100

14-00000-1000

NO.

MISSION SUMMARY

MISSION NUMBER	PAYLOAD NUMBER	VEHICLE NUMBER	LAUNCH DATE	LAUNCH TIME	ORBIT INCLINATION (°)	PERIGEE		RECOVERY PASS	MASTER CAMERA		SLAVE CAMERA		STELLAR INDEX CAMERA NUMBER			
						ALTITUDE (NM)	LOCATION (°N)		CAMERA NUMBER	SLIT (-)	FILTER TYPE	CAMERA NUMBER		SLIT (-)	FILTER TYPE	
1029	J-27	1623	2/2/66	2132 Z	75.1	99.5	22.5	81	178	0.275	W-25	179	0.175	W-21	079/94/91	076/10/94
1030	J-29	1622	3/9/66	2202 Z	75.0	97.5	18.7	81	192	0.275	W-25	183	0.175	W-21	094/100/107	082/195/102
1031	J-30	1627	4/7/66	2202 Z	78.1	104.5	23.3	113	184	0.225	W-23A	185	0.150	W-21	083/101/89	086/108/88
1032	J-28	1625	5/3/66	1925 Z	---	---	---	---	180	0.150	W-21	181	0.150	W-21	081/97/101	080/73/100
1033	J-33	1630	5/24/66	0213 Z	66.1	102.0	60.7	82	194	0.200	W-21	195	0.200	W-21	091/105/109	084/102/75
1034	J-31	1626	6/21/66	2131 Z	60.1	103.4	16.2	81	186	0.200	W-23A	187	0.150	W-21	085/109/78	087/107/103
1035	J-36	1628	9/20/66	2114 Z	65.0	99.5	29.1	81	188	0.225	W-23A	189	0.175	W-21	093/112/113	096/104/116

TOP SECRET
NO.

PERFORMANCE SUMMARY

MISSION NUMBER	CAMERA	SERIAL NUMBER	M I P VALUE	VISUAL RES	SLIT (μ)	RES. SPREAD (μ)	MTI / AIM SLIT AVERAGE (μ)	SLIT (μ)	ALTITUDE (ft)	90% ATTITUDE ERROR (")		90% ATTITUDE RATES (Y/HR)	90% V/M ERROR (%)	90% RESOLUTION (LINE FEET)	
										PITCH	ROLL			ALONG TRACK	CROSS TRACK
1004-1	FWD	124	85	78	350	97	43	370	127	0.45	0.42	1.08	5.1	7.7	6.1
1004-2	AFT	125	85	66	350	80	43	320	117	0.74	0.50	0.91	4.9	6.8	6.5
1006-1	FWD	148	90	78	350	65	43	320	84	0.41	0.42	1.14	15.4	13.8	6.7
1008-2	AFT	149	90	65	350	71	43	320	87	0.49	0.40	1.08	11.6	10.1	7.0
1007-1	FWD	144	85	80	350	60	43	320	82	0.58	0.46	1.43	3.6	3.1	9.4
1007-2	AFT	145	85	78	350	63	43	320	97	0.64	0.47	—	4.8	2.1	7.6
1008-1	FWD	150	85	80	350	80	43	320	85	0.59	0.39	0.94	2.9	4.9	5.9
1008-2	AFT	151	85	76	350	73	43	320	85	0.63	0.36	0.71	2.8	4.2	9.4
1009-1	FWD	154	85	92	350	60	—	80	75	0.65	0.66	0.71	3.3	5.3	5.8
1009-2	AFT	155	85	89	350	85	—	80	76	0.48	0.65	0.59	2.6	4.9	5.9
1010-1	FWD	152	85	90	350	90	80	80	87	0.93	0.30	0.87	4.5	2.3	4.4
1010-2	AFT	153	85	92	350	81	80	80	82	0.59	0.70	1.21	4.6	7.5	3.8
1011-1	FWD	160	90	84	350	78	80	80	87	0.77	0.39	0.97	2.3	5.3	5.6
1012-1	FWD	156	85	92	—	—	80	80	84	0.65	0.51	—	1.9	4.8	—
1012-2	AFT	157	85	91	—	—	80	80	84	0.97	0.77	0.51	9.9	3.3	5.9
1013-1	FWD	158	85	89	—	—	80	80	85	0.64	0.32	1.34	3.7	7.8	8.2
1014-1	FWD	162	80	87	—	—	80	80	74	0.62	0.41	1.46	2.2	6.2	6.8
1014-2	AFT	139	80	83	—	—	80	80	95	1.06	0.55	—	3.3	2.0	6.3
1015-1	FWD	138	85	87	—	—	80	80	70	1.06	0.59	—	1.4	2.2	—
1015-2	AFT	141	85	82	—	—	80	80	80	0.50	0.61	0.64	3.3	4.6	5.3
1016-1	FWD	132	85	85	—	—	80	80	81	0.72	0.83	2.01	2.0	5.5	10.9
1016-2	AFT	133	85	83	—	—	80	80	94	0.72	0.83	2.01	2.0	3.4	7.4
1017-1	FWD	140	85	72	—	—	80	80	92	0.83	0.93	2.19	1.5	4.9	8.0
1017-2	AFT	165	85	85	—	—	80	80	91	0.83	0.93	2.19	2.3	3.3	7.1
1018-1	FWD	152	85	77	—	—	80	80	78	0.49	0.76	2.50	3.3	9.8	11.6
1018-2	AFT	123	85	77	—	—	80	80	94	0.69	0.45	2.49	1.8	6.3	8.1

PERFORMANCE SUMMARY

[REDACTED] NO. [REDACTED]

MISSION NUMBER	CAMERA	SERIAL NUMBER	M I P VALUE	VISUAL RES	SLIT (μ)	AFSPPE AVERAGE	SLIT AVERAGE	SLIT (μ)	ALL	AVERAGE HIGH	90% ATTITUDE ERROR (")			90% ALTITUDE RATES (°/R)			90% V/M ERROR (%)	90% RESOLUTION ALONG TRACK	LIMIT LIFE CROSS TRACKS
											PITCH	ROLL	YAW	PITCH	ROLL	YAW			
1019-1	FWD	118	85	81	80	76	80	88	0.43	0.36	0.97	31.6	34.7	33.0	3.3	3.3	9.1		
	AFT	119		89	80	65	80	87	0.44	0.37	0.96	31.6	34.9	33.4	3.0	3.0	6.5		
1020-1	FWD	136	80	88	80	89	80	78	0.46	0.35	0.78	37.4	31.8	28.7	5.4	5.8	8.4		
	AFT			89	80	82	80	94	0.46	0.35	0.78	37.4	31.8	25.7	5.3	4.2	9.9		
1020-2	FWD	137			80		80		0.41	0.17	1.06	42.6	23.8	42.5	3.3	6.4	7.6		
	AFT								0.41	0.17	1.06	42.6	23.8	42.5	3.4	4.5	2.8		
1021-1	FWD	166	85	88	80	77	80	86	0.55	0.37	0.81	34.9	32.6	26.2	2.7	8.8	8.0		
	AFT			90	80	90	80	98	0.55	0.38	0.81	34.9	32.6	26.3	3.4	8.6	5.5		
1021-2	FWD	167	85	85	80	82	80	88	0.59	0.65		44.7	50.6		3.1	9.2			
	AFT			74					0.59	0.65		44.7	50.6						
1022-1	FWD	168	85	88	80	65	80	78	0.47	0.51	0.89	28.3	27.1	23.8	3.6	9.8	8.6		
	AFT			91	80	83	80	101	0.47	0.51	0.90	28.3	26.6	23.8	3.0	8.2	8.1		
1022-2	FWD	169	85	90	80	88	80	74	0.40	0.51	0.90	29.4	27.5	31.0	2.6	8.0	6.4		
	AFT			92	80	92	80	98	0.40	0.51	0.90	29.4	27.5	31.1	1.8	4.9	5.9		
1023-1	FWD	170	85		80	94	80	97	0.49	0.33	0.50	33.0	28.7	23.5	3.4	4.0	6.4		
	AFT				80	87	80	83	0.49	0.33	0.50	33.0	28.7	23.5	3.5	2.7	4.3		
1023-2	FWD	171	85		80	71	80	76	0.42	0.36	0.53	29.7	21.0	28.6	2.4	3.9	8.3		
	AFT				80	89	80	88	0.42	0.36	0.53	29.7	21.0	28.6	2.5	2.7	4.2		
1024-1	FWD	172	85		80	79	80	90	0.42	0.25	0.62	32.2	24.9	30.5	2.6	5.9	6.8		
	AFT				80	95	80	94	0.42	0.25	0.62	32.2	24.9	30.4	2.1	3.8	4.5		
1024-2	FWD	173	85		80	86	80	99	0.36	0.31	0.93	30.4	24.5	36.4	5.5	4.7	5.4		
	AFT				80	95	80	100	0.36	0.31	0.93	30.4	23.6	36.4	5.1	3.3	3.6		
1025-1	FWD	142	85		80	87	80	80	0.50	0.41	0.85	28.1	28.7	25.9	2.0	3.9	6.7		
	AFT				80	97	80	101	0.50	0.42	0.85	28.1	29.7	25.7	3.2	4.7	6.8		
1025-2	FWD	127	85		80	85	80	96	0.52	0.44	0.82	28.0	26.1	29.0	1.7	2.7	6.3		
	AFT				80	91	80	89	0.52	0.44	0.82	28.1	26.0	29.0	1.8	6.7	6.9		
1026-1	FWD	174	85		80	76	80	80	0.65	0.24	0.70	37.9	33.2	28.5	6.1	13.5	5.2		
	AFT				80	88	80	98	0.65	0.24	0.70	37.9	33.2	28.5	6.1	9.1	4.1		
1026-2	FWD	175	85		80	85	80	92	0.55	0.56	0.67	41.1	46.5	30.8	6.1	5.5	6.7		
	AFT				80	85	80	90	0.55	0.65	0.68	43.3	50.0	27.7	6.7	3.3	4.5		
1027-1	FWD	164	85		80	69	80	80	0.51	0.37	0.74	47.2	25.5	26.4	4.7	10.5	7.2		
	AFT	163			80	79	80	92	0.51	0.37	0.74	47.3	25.2	26.2	3.8	6.0	3.2		
1028-1	FWD	176	85		80	81	80	89	0.52	0.37	0.50	36.6	28.0	30.5	3.9	4.8	8.0		
	AFT				80	82	80	93	0.52	0.37	0.50	36.6	28.0	30.5	3.1	4.0	5.6		
1028-2	FWD	177	85		80	88	80	87	0.76	0.52		42.7	23.7		3.2	4.2			
	AFT				80	77	80	84	0.76	0.52		42.5	23.6		2.9	3.3			
1029-1	FWD	178	85		80	91	80	77	0.67	0.34	0.77	29.1	31.3	34.4	2.9	7.8	7.4		
	AFT				80	95	80	77	0.68	0.33	0.77	28.5	30.6	34.6	4.6	3.3	4.8		
1029-2	FWD	179	85		80	82	80	77	0.64	0.48	0.44	38.8	32.5	25.7	2.3	7.5	7.5		
	AFT				80	94	80	81	0.65	0.48	0.44	37.5	32.1	25.7	3.6	2.9	4.9		
1030-1	FWD	182	85		80	75	80	66	0.87	0.25	0.89	29.8	22.7	36.1	3.9	8.9	8.6		
	AFT				80	79	80	77	0.87	0.25	0.89	29.8	22.8	35.9	5.4	5.1	5.6		
1030-2	FWD	183	86		80	77	80	71	0.70	0.27	0.87	28.4	22.7	36.3	4.9	11.2	5.8		
	AFT				80	91	80	71	0.70	0.26	0.87	28.2	21.9	36.3	5.0	6.8	5.5		
1031-1	FWD	184	85		80	78	80	80	0.50	0.47	0.96	16.2	17.3	26.6	9.1	13.8	6.4		
	AFT				80	71	80	66	0.54	0.41	0.91	18.1	18.7	22.8	8.0	12.0	5.6		
1031-2	FWD	185	85		80	91	80	74	0.57	0.20		19.0	19.3	15.7	5.4	10.3	4.9		
	AFT				80	91	80	74	0.57	0.20		19.0	19.3	15.7					
1033-1	FWD	194	86		80	77	80	87	0.11	0.33	0.80	11.3	34.9	27.3	3.5	8.2	8.2		
	AFT				80	87	80	72	0.15	0.27	0.38	8.2	59.6	18.8	4.9	8.1	5.6		
1033-2	FWD	195	84		80	78	80	98	0.21	0.24	1.08	22.3	49.3	17.5	2.6	5.8	6.9		
	AFT				80	93	80	73	0.20	0.24	1.08	22.3	50.7	17.4	2.9	7.3	6.7		

PERFORMANCE SUMMARY

MISSION NUMBER	CAMERA	SERIAL NUMBER	MIP VALUE	AFSPDF MTF/AIM		90% ATTITUDE ERROR (°)			90% ATTITUDE RATES (°/HR)			90% V/M ERROR (%)	90% RESOLUTION LIMIT (FEET)		I M C ERROR
				AVERAGE (MIP)	SLIT (μ)	AVERAGE (MIP)	PITCH	ROLL	YAW	PITCH	ROLL		YAW	ALONG TRACK	
1034-1	FWD	186	80	75	81	0.20	0.15	0.99	19.3	20.4	24.9	15.0	17.6	5.9	---
	AFT			93	90	0.20	0.19	0.99	19.3	20.4	24.9	15.2	13.6	4.5	
1034-2	FWD	187	60	74	85	0.34	0.36	0.33	21.1	28.9	16.2	8.7	10.4	7.1	---
	AFT			69	88	0.34	0.36	0.33	21.1	29.2	16.2	8.9	8.0	5.3	
1035-1	FWD	188	85	66	---	0.16	0.55	2.39	18.9	27.9	33.9	4.2	4.8	3.7	4.0
	AFT			80	---	0.17	0.54	2.43	19.2	23.4	32.2	4.1	3.7	2.4	
1035-2	FWD	185	65	81	---	0.16	0.50	3.02	18.4	30.1	27.5	3.2	4.0	3.5	3.2
	AFT			82	---	0.17	0.51	3.02	15.5	24.7	28.3	3.4	3.3	2.4	

EXPOSURE - PROCESSING SUMMARY

MISSION NUMBER	CAMERA	SOLAR ELVATION RANGE (U)		SOLAR AZIMUTH RANGE (U)		PREDICTED PROCESSING (%)			REPORTED PROCESSING (%)			COMPUTED PROCESSING (%)			TERRAIN D. MIN			TERRAIN D. MAX			CLOUD RANGE			D. MAX			UNDER EXPOSED (%)	UNDER PROCESSED (%)	NOMINAL EXP. & PROCESSED (%)	OVER PROCESSED (%)	OVER EXPOSED (%)	LOUD OVER (%)
		LOW	HIGH	LOW	HIGH	P	R	T	P	R	T	P	R	T	MEAN	HIGH	LOW	MEAN	HIGH	LOW	HIGH	MEAN	HIGH	LOW	HIGH	MEAN						
1004-1	FWD	-3	61	25	124	5	78	19	4	79	17	0	79	21	0.78	0.83	1.89	0.83	1.97	2.02	1.00	2.43	2.04	2.08	0	4	60	31	5	35		
1004-2	FWD	-3	61	25	124	5	74	21	4	79	17	0	80	20	0.78	0.83	1.89	0.83	1.97	2.02	1.00	2.43	2.04	2.08	1	4	67	28	3	35		
1005-1	FWD	-4	68	10	131	7	76	17	37	50	13	4	83	13	0.78	0.83	1.89	0.83	1.97	2.02	1.00	2.43	2.04	2.08	0	4	59	27	9	35		
1006-1	FWD	-4	68	10	131	7	76	17	37	50	13	4	77	19	0.73	0.78	1.89	0.73	1.89	1.99	0.43	2.46	1.89	1.98	0	4	67	20	9	35		
1006-2	FWD	-4	68	10	131	7	76	17	37	50	13	4	77	19	0.73	0.78	1.89	0.73	1.89	1.99	0.43	2.46	1.89	1.98	0	4	67	20	9	35		
1007-1	FWD	12	49	50	103	0	93	1	20	79	0	25	75	0.47	0.52	2.20	0.47	2.20	2.21	1.22	1.36	2.17	2.21	20	8	67	3	0	60			
1007-2	FWD	11	49	48	102	0	100	0	10	42	48	6	77	17	0.55	0.58	2.16	0.55	2.16	2.16	1.54	2.39	2.20	2.24	1	13	80	5	1	60		
1008-1	FWD	30	51	50	102	0	100	0	4	32	64	1	35	64	0.62	0.66	2.24	0.62	2.24	2.24	1.48	2.33	2.24	2.24	2	2	86	8	0	45		
1008-2	FWD	29	58	42	105	0	100	0	3	30	67	0	29	71	0.72	0.76	2.10	0.72	2.10	2.22	1.09	2.40	2.20	2.25	2	3	84	13	0	45		
1009-1	FWD	12	49	42	132	0	100	0	1	26	73	0	34	66	0.62	0.65	2.41	0.62	2.41	2.52	0.83	2.31	2.30	2.36	5	4	77	14	0	50		
1009-2	FWD	23	58	33	138	2	98	0	3	21	76	0	40	60	0.64	0.68	2.37	0.64	2.37	2.53	1.06	2.45	2.23	2.30	4	4	74	17	0	50		
1010-1	FWD	18	47	45	132	0	100	0	1	19	81	0	31	69	0.67	0.71	2.32	0.67	2.32	2.53	1.11	2.42	2.16	2.20	18	3	75	4	0	48		
1010-2	FWD	18	47	45	132	0	100	0	1	19	81	0	31	69	0.67	0.71	2.32	0.67	2.32	2.53	1.11	2.42	2.16	2.20	18	3	75	4	0	48		
1011-1	FWD	2	53	33	138	0	93	3	47	50	0	37	63	0.56	0.60	2.35	0.56	2.35	2.53	0.74	2.37	2.11	2.18	3	17	81	7	0	40			
1012-1	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1012-2	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1013-1	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1013-2	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1014-1	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1014-2	FWD	0	45	38	138	0	84	36	7	56	37	0	65	35	0.53	0.58	2.39	0.53	2.39	2.53	0.50	2.39	1.93	2.00	6	17	88	10	0	60		
1015-1	FWD	5	68	19	140	0	92	2	36	60	0	2	98	0	0.47	0.51	2.28	0.47	2.28	2.53	0.46	2.41	1.86	1.90	28	0	65	7	0	45		
1015-2	FWD	4	68	18	140	0	92	2	36	60	0	2	98	0	0.47	0.51	2.28	0.47	2.28	2.53	0.46	2.41	1.86	1.90	28	0	65	7	0	45		
1016-1	FWD	5	68	19	140	0	92	2	36	60	0	2	98	0	0.47	0.51	2.28	0.47	2.28	2.53	0.46	2.41	1.86	1.90	28	0	65	7	0	45		
1016-2	FWD	5	68	19	140	0	92	2	36	60	0	2	98	0	0.47	0.51	2.28	0.47	2.28	2.53	0.46	2.41	1.86	1.90	28	0	65	7	0	45		
1017-1	FWD	-1	57	19	138	0	100	0	13	87	0	82	18	0.61	0.66	2.23	0.61	2.23	2.53	0.78	2.30	2.10	2.18	7	13	76	14	4	40			
1017-2	FWD	-1	57	19	138	0	100	0	13	87	0	82	18	0.61	0.66	2.23	0.61	2.23	2.53	0.78	2.30	2.10	2.18	7	13	76	14	4	40			
1018-1	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		
1018-2	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		
1019-1	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		
1019-2	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		
1020-1	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		
1020-2	FWD	6	77	13	134	0	100	0	5	95	28	1	83	16	0.52	0.56	2.22	0.52	2.22	2.53	0.49	2.49	1.75	1.82	23	5	85	6	0	40		

NO. [REDACTED]

EXPOSURE - PROCESSING SUMMARY

Table with columns: MISSION NUMBER, CAMERA, SOLAR ELEVATION, SOLAR AZIMUTH, PREDICTED PROCESSING, REPORTED PROCESSING, COMPUTED PROCESSING, TERRAIN D-MIN, TERRAIN D-MAX, CLOUD RANGE, D-MAX, UNDER EXPOSED, UNDER PROTECTED, NOMINAL, OVER PROCESSED, OVER EXPOSED.

INSUFFICIENT DATA

EXPOSURE - PROCESSING SUMMARY

MISSION NUMBER	CAMERA	SOLAR ELEVATION RANGE (°)		SOLAR AZIMUTH RANGE (°)		PREDICTED PROCESSING (%)			REPORTED PROCESSING (%)			COMPUTED PROCESSING (%)			TERRAIN D-MIN RANGE			TERRAIN D-MAX RANGE			CLOUD RANGE			D-MAX MEAN	D-MAX MEDIAN	UNDER EXPOSED (%)	UNDER PROCESSED (%)	NOMINAL EXP. & PRO. (%)	OVER PROCESSED (%)	OVER EXPOSED (%)	CLOUD COVE. (%)	
		LOW	HIGH	LOW	HIGH	P	I	T	P	I	T	P	I	T	LOW	HIGH	MEAN	LOW	HIGH	MEAN	LOW	HIGH	MEAN									LOW
1034-1	FWD	23	77	16	165	0	96	4	3	21	76	0	20	80	0.25	1.80	0.57	0.50	0.55	2.42	1.54	1.61	0.88	2.45	2.22	2.26	18	3	70	7	2	35
	AFT	23	77	10	165	0	55	45	2	31	67	0	16	84	0.29	1.63	0.56	0.50	0.41	2.35	1.55	1.60	0.97	2.44	2.19	2.25	18	4	71	7	0	35
1034-2	FWD	29	86	0	178	0	88	12	9	26	65	0	27	73	0.19	1.52	0.57	0.52	0.72	2.40	1.63	1.60	1.21	2.47	2.25	2.31	12	4	76	0	0	49
	AFT	30	86	0	178	0	41	59	6	37	57	0	34	66	0.26	1.60	0.54	0.49	0.70	2.32	1.59	1.62	1.08	2.48	2.22	2.29	12	10	73	4	2	45
1035-1	FWD	13	68	19	144	0	17	83	0	11	89	0	5	95	0.28	1.90	0.52	0.45	0.61	2.44	1.40	1.40	1.06	2.43	2.15	2.22	23	1	71	4	1	30
	AFT	13	68	18	144	0	5	95	1	14	85	0	9	91	0.24	1.39	0.50	0.43	0.60	2.42	1.48	1.53	0.90	2.55	2.15	2.24	27	3	66	5	0	30
1035-2	FWD	4	81	10	138	0	22	78	4	16	78	0	18	82	0.21	1.50	0.52	0.47	0.43	2.33	1.32	1.30	0.94	2.50	2.09	2.18	24	5	66	4	0	40
	AFT	3	81	8	138	0	23	77	1	20	79	0	12	88	0.21	1.39	0.55	0.51	0.50	2.25	1.34	1.30	0.74	2.60	2.09	2.15	14	3	76	7	0	40

~~TOP SECRET C~~
NO.

SECTION A

APPENDIX

~~TOP SECRET C~~

MISSION * 1035-1 * INSTRUMENT * FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.01	0	0	0	0	0	0	0	0	0	0	0	0
0.02	0	0	0	0	0	0	0	0	0	0	0	0
0.03	0	0	0	0	0	0	0	0	0	0	0	0
0.04	0	0	0	0	0	0	0	0	0	0	0	0
0.05	0	0	0	0	0	0	0	0	0	0	0	0
0.06	0	0	0	0	0	0	0	0	0	0	0	0
0.07	0	0	0	0	0	0	0	0	0	0	0	0
0.08	0	0	0	0	0	0	0	0	0	0	0	0
0.09	0	0	0	0	0	0	0	0	0	0	0	0
0.10	0	0	0	0	0	0	0	0	0	0	0	0
0.11	0	0	0	0	0	0	0	0	0	0	0	0
0.12	0	0	0	0	0	0	0	0	0	0	0	0
0.13	0	0	0	0	0	0	0	0	0	0	0	0
0.14	0	0	0	0	0	0	0	0	0	0	0	0
0.15	0	0	0	0	0	0	0	0	0	0	0	0
0.16	0	0	0	0	0	0	0	0	0	0	0	0
0.17	0	0	0	0	0	0	0	0	0	0	0	0
0.18	0	0	0	0	0	0	0	0	0	0	0	0
0.19	0	0	0	0	0	0	0	0	0	0	0	0
0.20	0	0	0	0	0	0	0	0	0	0	0	0
0.21	0	0	0	0	0	0	0	0	0	0	0	0
0.22	0	0	0	0	0	0	0	0	0	0	0	0
0.23	0	0	0	0	0	0	0	0	0	0	0	0
0.24	0	0	0	0	0	0	0	0	0	0	0	0
0.25	0	0	0	0	0	0	0	0	0	0	0	0
0.26	0	0	0	0	0	0	0	0	0	0	0	0
0.27	0	0	0	0	0	0	0	0	0	0	0	0
0.28	0	0	0	0	0	0	0	0	0	0	0	0
0.29	0	0	0	0	0	0	0	0	0	0	0	0
0.30	0	0	0	0	0	0	0	0	0	0	0	0
0.31	0	0	0	0	0	0	0	0	0	0	0	0
0.32	0	0	0	0	0	0	0	0	0	0	0	0
0.33	0	0	0	0	0	0	0	0	0	0	0	0
0.34	0	0	0	0	0	0	0	0	0	0	0	0
0.35	0	0	0	0	0	0	0	0	0	0	0	0
0.36	0	0	0	0	0	0	0	0	0	0	0	0
0.37	0	0	0	0	0	0	0	0	0	0	0	0
0.38	0	0	0	0	0	0	0	0	0	0	0	0
0.39	0	0	0	0	0	0	0	0	0	0	0	0
0.40	0	0	0	0	0	0	0	0	0	0	0	0
0.41	0	0	0	0	0	0	0	0	0	0	0	0
0.42	0	0	0	0	0	0	0	0	0	0	0	0
0.43	0	0	0	0	0	0	0	0	0	0	0	0
0.44	0	0	0	0	0	0	0	0	0	0	0	0
0.45	0	0	0	0	0	0	0	0	0	0	0	0
0.46	0	0	0	0	0	0	0	0	0	0	0	0
0.47	0	0	0	0	0	0	0	0	0	0	0	0
0.48	0	0	0	0	0	0	0	0	0	0	0	0
0.49	0	0	0	0	0	0	0	0	0	0	0	0
0.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	159	159	0	0	165	165

Table A-1

MISSION * 1035-1 * INSTRUMENT * FRWD

11/28/66

DENSITY FREQ DISTR

DENSITY VALJE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.51	0	0	0	0	0	0	3	0	0	3	0	0
0.52	0	0	0	0	0	0	4	0	0	4	0	0
0.53	0	0	0	0	0	0	4	0	0	4	0	0
0.54	0	0	0	0	0	0	4	0	0	4	0	0
0.55	0	0	0	0	0	0	7	0	0	7	0	0
0.56	0	0	0	0	0	0	4	0	0	4	0	0
0.57	0	0	0	0	0	0	5	0	0	5	0	0
0.58	0	0	0	0	0	0	4	0	0	4	0	0
0.59	0	0	0	0	0	0	4	0	0	4	0	0
0.60	0	0	0	0	0	0	2	0	0	2	0	0
0.61	0	0	0	0	0	0	2	0	0	2	0	0
0.62	0	0	0	0	0	0	2	0	0	2	0	0
0.63	0	0	0	0	0	0	2	0	0	2	0	0
0.64	0	0	0	0	0	0	2	0	0	2	0	0
0.65	0	0	0	0	0	0	2	0	0	2	0	0
0.66	0	0	0	0	0	0	2	0	0	2	0	0
0.67	0	0	0	0	0	0	1	0	0	1	0	0
0.68	0	0	0	0	0	0	1	0	0	1	0	0
0.69	0	0	0	0	0	0	1	0	0	1	0	0
0.70	0	0	0	0	0	0	1	0	0	1	0	0
0.71	0	0	0	0	0	0	1	0	0	1	0	0
0.72	0	0	0	0	0	0	1	0	0	1	0	0
0.73	0	0	0	0	0	0	1	0	0	1	0	0
0.74	0	0	0	0	0	0	1	0	0	1	0	0
0.75	0	0	0	0	0	0	1	0	0	1	0	0
0.76	0	0	0	0	0	0	1	0	0	1	0	0
0.77	0	0	0	0	0	0	1	0	0	1	0	0
0.78	0	0	0	0	0	0	1	0	0	1	0	0
0.79	0	0	0	0	0	0	1	0	0	1	0	0
0.80	0	0	0	0	0	0	1	0	0	1	0	0
0.81	0	0	0	0	0	0	1	0	0	1	0	0
0.82	0	0	0	0	0	0	1	0	0	1	0	0
0.83	0	0	0	0	0	0	1	0	0	1	0	0
0.84	0	0	0	0	0	0	2	0	0	2	0	0
0.85	0	0	0	0	0	0	1	0	0	1	0	0
0.86	0	0	0	0	0	0	1	0	0	1	0	0
0.87	0	0	0	0	0	0	1	0	0	1	0	0
0.88	0	0	0	0	0	0	1	0	0	1	0	0
0.89	0	0	0	0	0	0	1	0	0	1	0	0
0.90	0	0	0	0	0	0	4	0	0	4	0	0
0.91	0	0	0	0	0	0	1	0	0	1	0	0
0.92	0	0	0	0	0	0	4	0	0	4	0	0
0.93	0	0	0	0	0	0	1	0	0	1	0	0
0.94	0	0	0	0	0	0	1	0	0	1	0	0
0.95	0	0	0	0	0	0	1	0	0	1	0	0
0.96	0	0	0	0	0	0	1	0	0	1	0	0
0.97	0	0	0	0	0	0	1	0	0	1	0	0
0.98	0	0	0	0	0	0	1	0	0	1	0	0
0.99	0	0	0	0	0	0	1	0	0	1	0	0
1.00	0	0	0	0	0	0	1	0	0	1	0	0
SUBTOTAL	0	0	0	7	0	0	79	31	0	86	31	0

Table A-1

MISSION * 1035-1 * INSTRUMENT * FRWD

11/28/66

DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.01	00	00	00	00	00	00	10	00	00	10	00	00
1.02	00	00	00	00	00	00	10	00	00	10	00	00
1.03	00	00	00	00	00	00	10	00	00	10	00	00
1.04	00	00	00	00	00	00	10	00	00	10	00	00
1.05	00	00	00	00	00	00	10	00	00	10	00	00
1.06	00	00	00	00	00	00	10	00	00	10	00	00
1.07	00	00	00	00	00	00	10	00	00	10	00	00
1.08	00	00	00	00	00	00	10	00	00	10	00	00
1.09	00	00	00	00	00	00	10	00	00	10	00	00
1.10	00	00	00	00	00	00	10	00	00	10	00	00
1.11	00	00	00	00	00	00	10	00	00	10	00	00
1.12	00	00	00	00	00	00	10	00	00	10	00	00
1.13	00	00	00	00	00	00	10	00	00	10	00	00
1.14	00	00	00	00	00	00	10	00	00	10	00	00
1.15	00	00	00	00	00	00	10	00	00	10	00	00
1.16	00	00	00	00	00	00	10	00	00	10	00	00
1.17	00	00	00	00	00	00	10	00	00	10	00	00
1.18	00	00	00	00	00	00	10	00	00	10	00	00
1.19	00	00	00	00	00	00	10	00	00	10	00	00
1.20	00	00	00	00	00	00	10	00	00	10	00	00
1.21	00	00	00	00	00	00	10	00	00	10	00	00
1.22	00	00	00	00	00	00	10	00	00	10	00	00
1.23	00	00	00	00	00	00	10	00	00	10	00	00
1.24	00	00	00	00	00	00	10	00	00	10	00	00
1.25	00	00	00	00	00	00	10	00	00	10	00	00
1.26	00	00	00	00	00	00	10	00	00	10	00	00
1.27	00	00	00	00	00	00	10	00	00	10	00	00
1.28	00	00	00	00	00	00	10	00	00	10	00	00
1.29	00	00	00	00	00	00	10	00	00	10	00	00
1.30	00	00	00	00	00	00	10	00	00	10	00	00
1.31	00	00	00	00	00	00	10	00	00	10	00	00
1.32	00	00	00	00	00	00	10	00	00	10	00	00
1.33	00	00	00	00	00	00	10	00	00	10	00	00
1.34	00	00	00	00	00	00	10	00	00	10	00	00
1.35	00	00	00	00	00	00	10	00	00	10	00	00
1.36	00	00	00	00	00	00	10	00	00	10	00	00
1.37	00	00	00	00	00	00	10	00	00	10	00	00
1.38	00	00	00	00	00	00	10	00	00	10	00	00
1.39	00	00	00	00	00	00	10	00	00	10	00	00
1.40	00	00	00	00	00	00	10	00	00	10	00	00
1.41	00	00	00	00	00	00	10	00	00	10	00	00
1.42	00	00	00	00	00	00	10	00	00	10	00	00
1.43	00	00	00	00	00	00	10	00	00	10	00	00
1.44	00	00	00	00	00	00	10	00	00	10	00	00
1.45	00	00	00	00	00	00	10	00	00	10	00	00
1.46	00	00	00	00	00	00	10	00	00	10	00	00
1.47	00	00	00	00	00	00	10	00	00	10	00	00
1.48	00	00	00	00	00	00	10	00	00	10	00	00
1.49	00	00	00	00	00	00	10	00	00	10	00	00
1.50	00	00	00	00	00	00	10	00	00	10	00	00
SUBTOTAL	00	00	00	00	00	00	6	121	6	6	127	6

Table A-1

MISSION * 1035-1 * INSTRUMENT * FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALJE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.51	0	0	0	0	0	0	0	2	0	0	2	0
1.52	0	0	0	0	1	0	0	2	0	0	4	0
1.53	0	0	0	0	0	0	0	2	0	0	4	0
1.54	0	0	0	0	0	0	0	2	0	0	2	1
1.55	0	0	0	0	0	0	0	4	0	0	5	0
1.56	0	0	0	0	0	0	0	1	0	0	1	0
1.57	0	0	0	0	0	0	0	1	0	0	1	0
1.58	0	0	0	0	0	0	0	0	0	0	0	0
1.59	0	0	0	0	0	0	0	0	0	0	0	0
1.60	0	0	0	0	0	0	0	0	0	0	0	0
1.61	0	0	0	0	0	0	0	0	0	0	0	0
1.62	0	0	0	0	0	0	0	0	0	0	0	0
1.63	0	0	0	0	0	0	0	0	0	0	0	0
1.64	0	0	0	0	0	0	0	0	0	0	0	0
1.65	0	0	0	0	0	0	0	0	0	0	0	0
1.66	0	0	0	0	0	0	0	0	0	0	0	0
1.67	0	0	0	0	0	0	0	0	0	0	0	0
1.68	0	0	0	0	0	0	0	0	0	0	0	0
1.69	0	0	0	0	0	0	0	0	0	0	0	0
1.70	0	0	0	0	0	0	0	0	0	0	0	0
1.71	0	0	0	0	0	0	0	0	0	0	0	0
1.72	0	0	0	0	0	0	0	0	0	0	0	0
1.73	0	0	0	0	0	0	0	0	0	0	0	0
1.74	0	0	0	0	0	0	0	0	0	0	0	0
1.75	0	0	0	0	0	0	0	0	0	0	0	0
1.76	0	0	0	0	0	0	0	0	0	0	0	0
1.77	0	0	0	0	0	0	0	0	0	0	0	0
1.78	0	0	0	0	0	0	0	0	0	0	0	0
1.79	0	0	0	0	0	0	0	0	0	0	0	0
1.80	0	0	0	0	0	0	0	0	0	0	0	0
1.81	0	0	0	0	0	0	0	0	0	0	0	0
1.82	0	0	0	0	0	0	0	0	0	0	0	0
1.83	0	0	0	0	0	0	0	0	0	0	0	0
1.84	0	0	0	0	0	0	0	0	0	0	0	0
1.85	0	0	0	0	0	0	0	0	0	0	0	0
1.86	0	0	0	0	0	0	0	0	0	0	0	0
1.87	0	0	0	0	0	0	0	0	0	0	0	0
1.88	0	0	0	0	0	0	0	0	0	0	0	0
1.89	0	0	0	0	0	0	0	0	0	0	0	0
1.90	0	0	0	0	0	0	0	0	0	0	0	0
1.91	0	0	0	0	0	0	0	0	0	0	0	0
1.92	0	0	0	0	0	0	0	0	0	0	0	0
1.93	0	0	0	0	0	0	0	0	0	0	0	0
1.94	0	0	0	0	0	0	0	0	0	0	0	0
1.95	0	0	0	0	0	0	0	0	0	0	0	0
1.96	0	0	0	0	0	0	0	0	0	0	0	0
1.97	0	0	0	0	0	0	0	0	0	0	0	0
1.98	0	0	0	0	0	0	0	0	0	0	0	0
1.99	0	0	0	0	0	0	0	0	0	0	0	0
2.00	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	7	6	3	85	34	3	92	40

Table A-1

MISSION * 1035-1 * INSTRUMENT * FRWJ 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
2.01	0	0	0	0	0	0	0	0	0	0	0	0
2.02	0	0	0	0	0	0	0	0	0	0	0	0
2.03	0	0	0	0	0	0	0	0	0	0	0	0
2.04	0	0	0	0	0	0	0	0	0	0	0	0
2.05	0	0	0	0	0	0	0	0	0	0	0	0
2.06	0	0	0	0	0	0	0	0	0	0	0	0
2.07	0	0	0	0	0	0	0	0	0	0	0	0
2.08	0	0	0	0	0	0	0	0	0	0	0	0
2.09	0	0	0	0	0	0	0	0	0	0	0	0
2.10	0	0	0	0	0	0	0	0	0	0	0	0
2.11	0	0	0	0	0	0	0	0	0	0	0	0
2.12	0	0	0	0	0	0	0	0	0	0	0	0
2.13	0	0	0	0	0	0	0	0	0	0	0	0
2.14	0	0	0	0	0	0	0	0	0	0	0	0
2.15	0	0	0	0	0	0	0	0	0	0	0	0
2.16	0	0	0	0	0	0	0	0	0	0	0	0
2.17	0	0	0	0	0	0	0	0	0	0	0	0
2.18	0	0	0	0	0	0	0	0	0	0	0	0
2.19	0	0	0	0	0	0	0	0	0	0	0	0
2.20	0	0	0	0	0	0	0	0	0	0	0	0
2.21	0	0	0	0	0	0	0	0	0	0	0	0
2.22	0	0	0	0	0	0	0	0	0	0	0	0
2.23	0	0	0	0	0	0	0	0	0	0	0	0
2.24	0	0	0	0	0	0	0	0	0	0	0	0
2.25	0	0	0	0	0	0	0	0	0	0	0	0
2.26	0	0	0	0	0	0	0	0	0	0	0	0
2.27	0	0	0	0	0	0	0	0	0	0	0	0
2.28	0	0	0	0	0	0	0	0	0	0	0	0
2.29	0	0	0	0	0	0	0	0	0	0	0	0
2.30	0	0	0	0	0	0	0	0	0	0	0	0
2.31	0	0	0	0	0	0	0	0	0	0	0	0
2.32	0	0	0	0	0	0	0	0	0	0	0	0
2.33	0	0	0	0	0	0	0	0	0	0	0	0
2.34	0	0	0	0	0	0	0	0	0	0	0	0
2.35	0	0	0	0	0	0	0	0	0	0	0	0
2.36	0	0	0	0	0	0	0	0	0	0	0	0
2.37	0	0	0	0	0	0	0	0	0	0	0	0
2.38	0	0	0	0	0	0	0	0	0	0	0	0
2.39	0	0	0	0	0	0	0	0	0	0	0	0
2.40	0	0	0	0	0	0	0	0	0	0	0	0
2.41	0	0	0	0	0	0	0	0	0	0	0	0
2.42	0	0	0	0	0	0	0	0	0	0	0	0
2.43	0	0	0	0	0	0	0	0	0	0	0	0
2.44	0	0	0	0	0	0	0	0	0	0	0	0
2.45	0	0	0	0	0	0	0	0	0	0	0	0
2.46	0	0	0	0	0	0	0	0	0	0	0	0
2.47	0	0	0	0	0	0	0	0	0	0	0	0
2.48	0	0	0	0	0	0	0	0	0	0	0	0
2.49	0	0	0	0	0	0	0	0	0	0	0	0
2.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	10	14	8	0	15

Table A-1

MISSION # 1035-1 INSTRUMENT # FWD

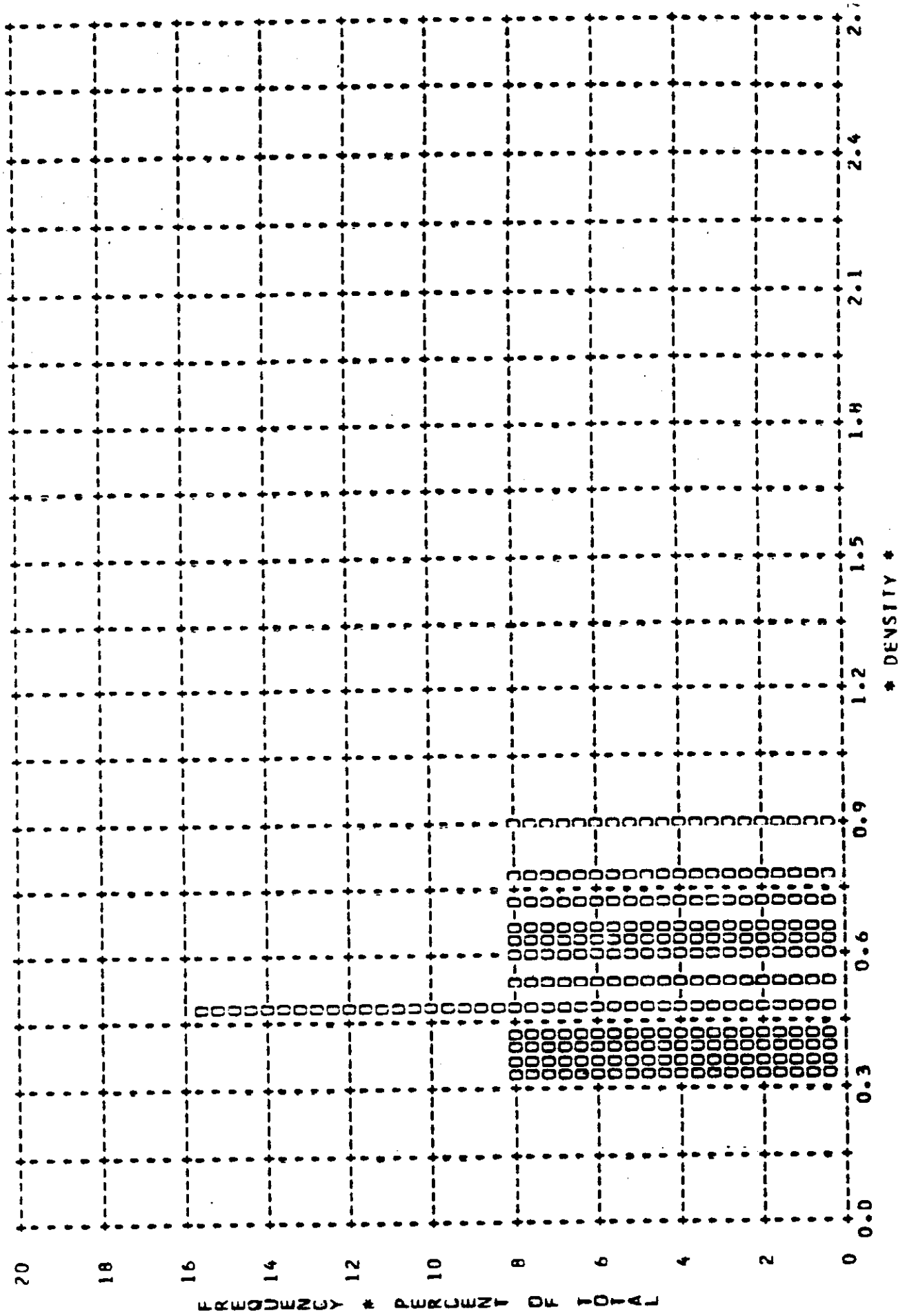
11/28/55 DENSITY INFO DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIN	LIN	MAX	LIN	MIN	MAX	LIN	MIN	MAX	LIN
2.51	0	0	0	0	0	0	0	0	0	0	0	0
2.52	0	0	0	0	0	0	0	0	0	0	0	0
2.53	0	0	0	0	0	0	0	0	0	0	0	0
2.54	0	0	0	0	0	0	0	0	0	0	0	0
2.55	0	0	0	0	0	0	0	0	0	0	0	0
2.56	0	0	0	0	0	0	0	0	0	0	0	0
2.57	0	0	0	0	0	0	0	0	0	0	0	0
2.58	0	0	0	0	0	0	0	0	0	0	0	0
2.59	0	0	0	0	0	0	0	0	0	0	0	0
2.60	0	0	0	0	0	0	0	0	0	0	0	0
2.61	0	0	0	0	0	0	0	0	0	0	0	0
2.62	0	0	0	0	0	0	0	0	0	0	0	0
2.63	0	0	0	0	0	0	0	0	0	0	0	0
2.64	0	0	0	0	0	0	0	0	0	0	0	0
2.65	0	0	0	0	0	0	0	0	0	0	0	0
2.66	0	0	0	0	0	0	0	0	0	0	0	0
2.67	0	0	0	0	0	0	0	0	0	0	0	0
2.68	0	0	0	0	0	0	0	0	0	0	0	0
2.69	0	0	0	0	0	0	0	0	0	0	0	0
2.70	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	15	15	15	247	247	180	250	240	201

TOP SECRET

CONFIDENTIAL NO.

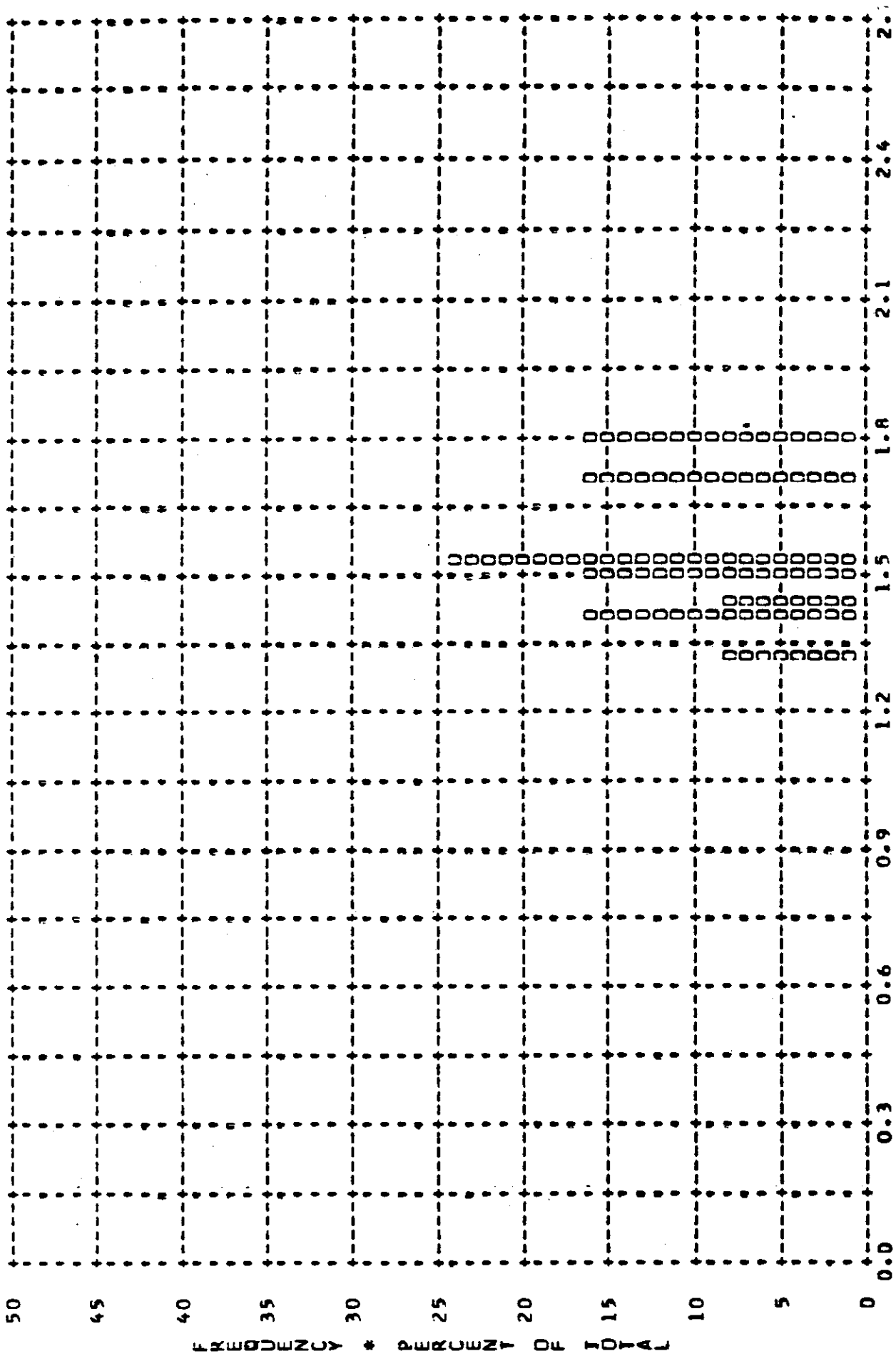
MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 0.55 * MEDIAN * 0.54 * STD DEV * 0.17 * RANGE * 0.31 TO 0.88 WITH 13 SAMPLES



TOP SECRET

CONTROL NO.

MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 1.54 * MEDIAN * 1.52 * STD DEV * 0.16 * RANGE * 1.31 TO 1.80 WITH 13 SAMPLES

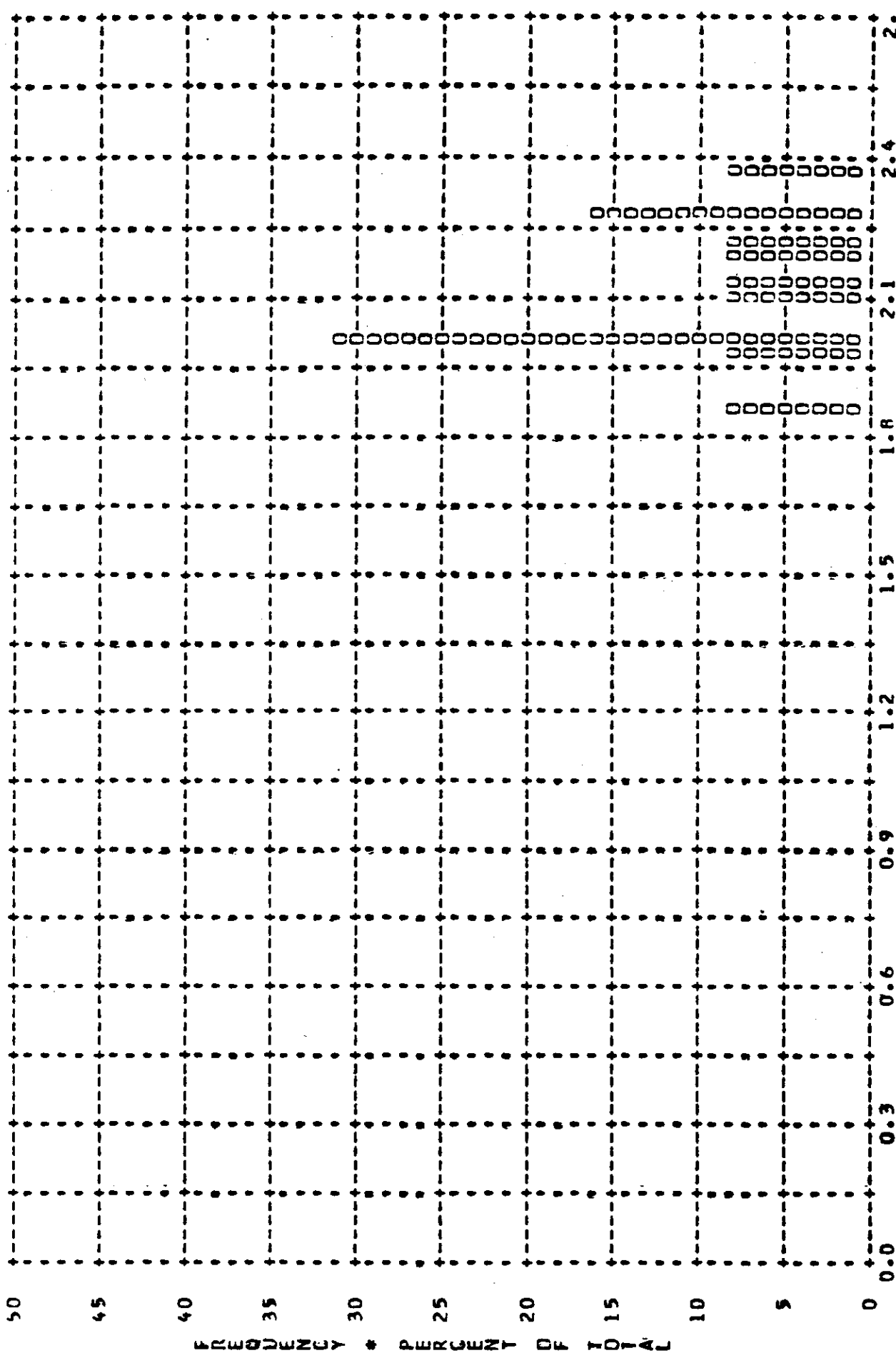


* DENSITY *

TOP SECRET

CONTROL NO.

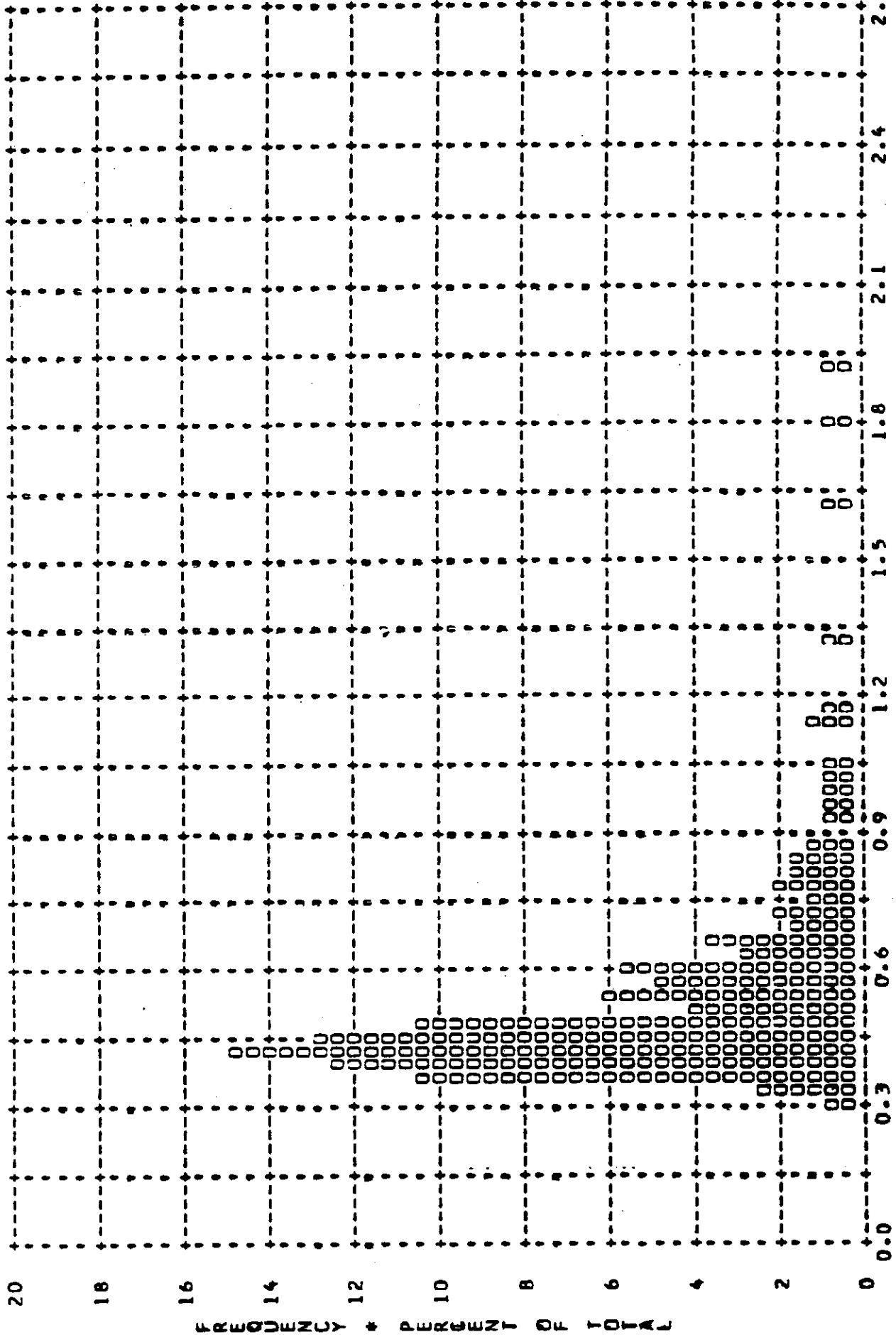
MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * INTERMEDIATE
ARITH MEAN * 2.10 * MEDIAN * 2.10 * STD DEV * 0.15 * RANGE * 1.86 TO 2.37 WITH 13 SAMPLES



~~TOP SECRET~~

██████████ CONTROL NO. ██████████

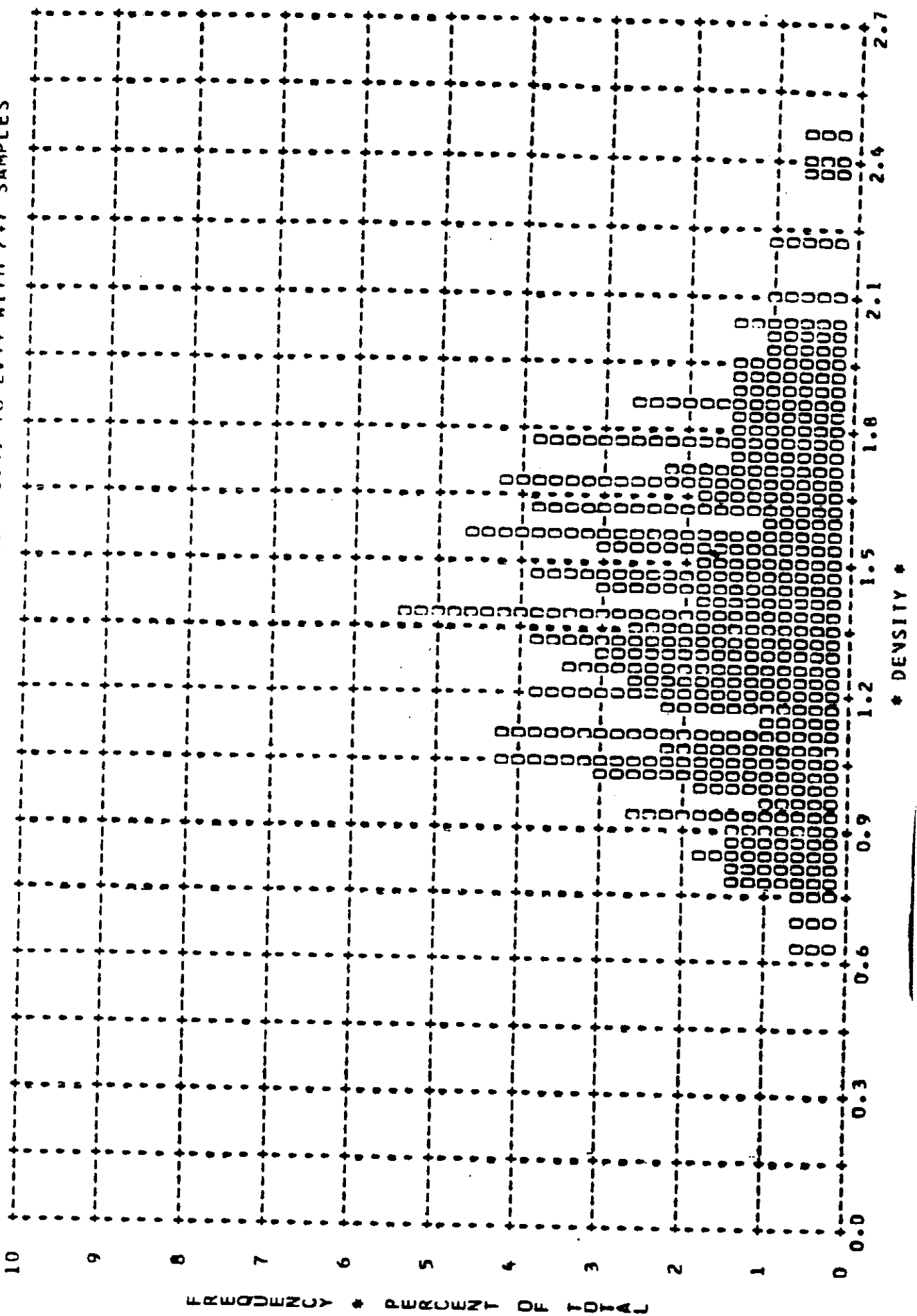
MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * FULL
ARITH MEAN * 0.52 * MEDIAN * 0.45 * STD DEV * 0.21 * RANGE * 0.28 TO 1.90 WITH 247 SAMPLES



~~TOP SECRET~~

[REDACTED] - CONTROL NO.

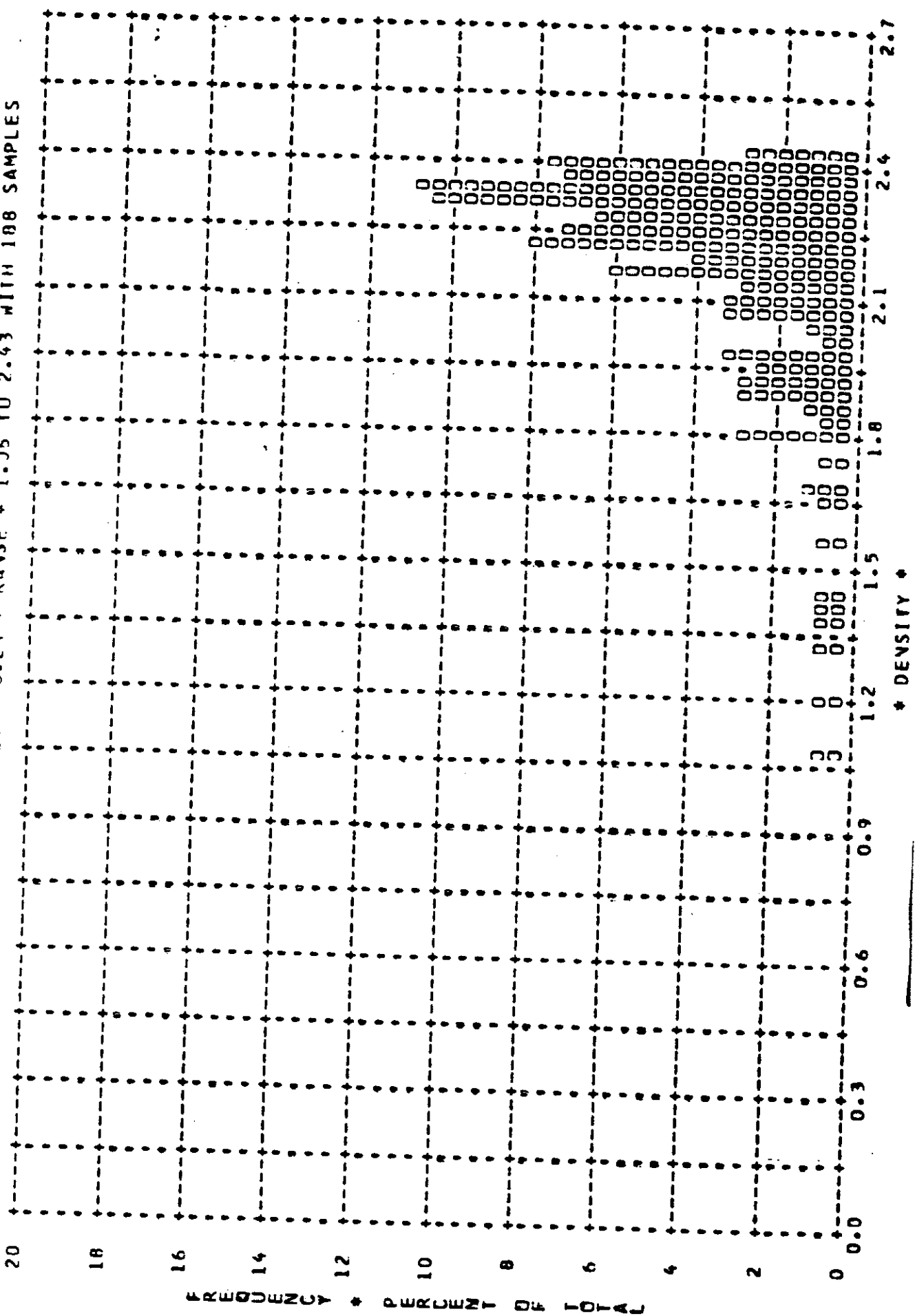
MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * FULL
ARITH MEAN * 1.40 * MEDIAN * 1.38 * STD DEV * 0.35 * RANGE * 0.51 TO 2.44 WITH 247 SAMPLES



~~TOP SECRET~~

COVERJL VJ.

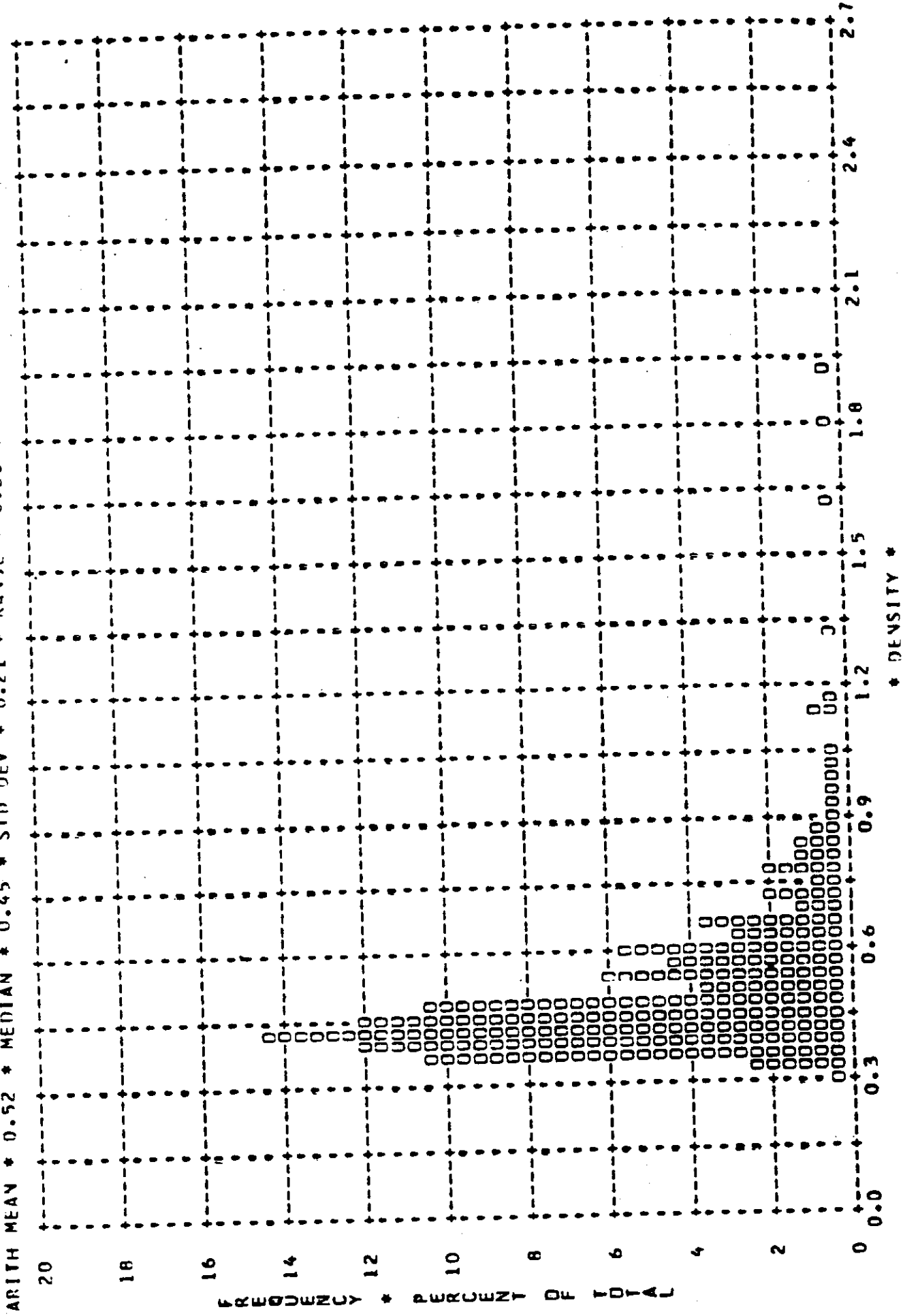
MISSION * 1035-1 * INSTR * FRMD * 11/28/66 PLOT IF D MAX * CLOUD * PROCESSING * FULL
ARITH MEAN * 2.16 * MEDIAN * 2.23 * STD DEV * 0.24 * RANGE * 1.05 TO 2.43 WITH 188 SAMPLES



~~TOP SECRET~~

CONTROL NO.

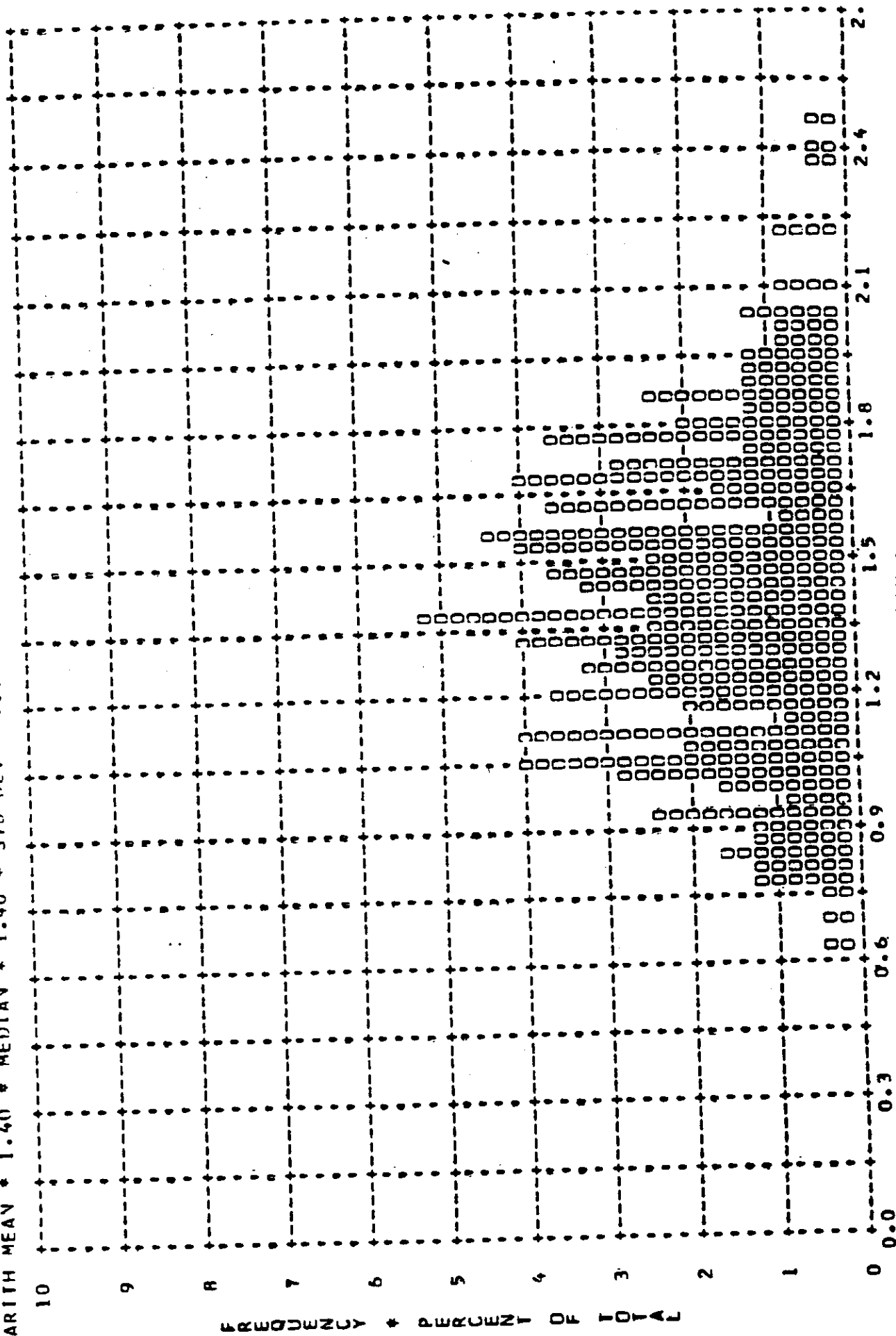
MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF 3 MIN * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 0.52 * MEDIAN * 0.45 * STD DEV * 0.21 * RANGE * 0.28 TO 1.90 WITH 260 SAMPLES



~~TOP SECRET~~

- CONTROL NO.

MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 1.40 * MEDIAN * 1.40 * STD DEV * 0.35 * RANGE * 0.61 TO 2.44 WITH 260 SAMPLES

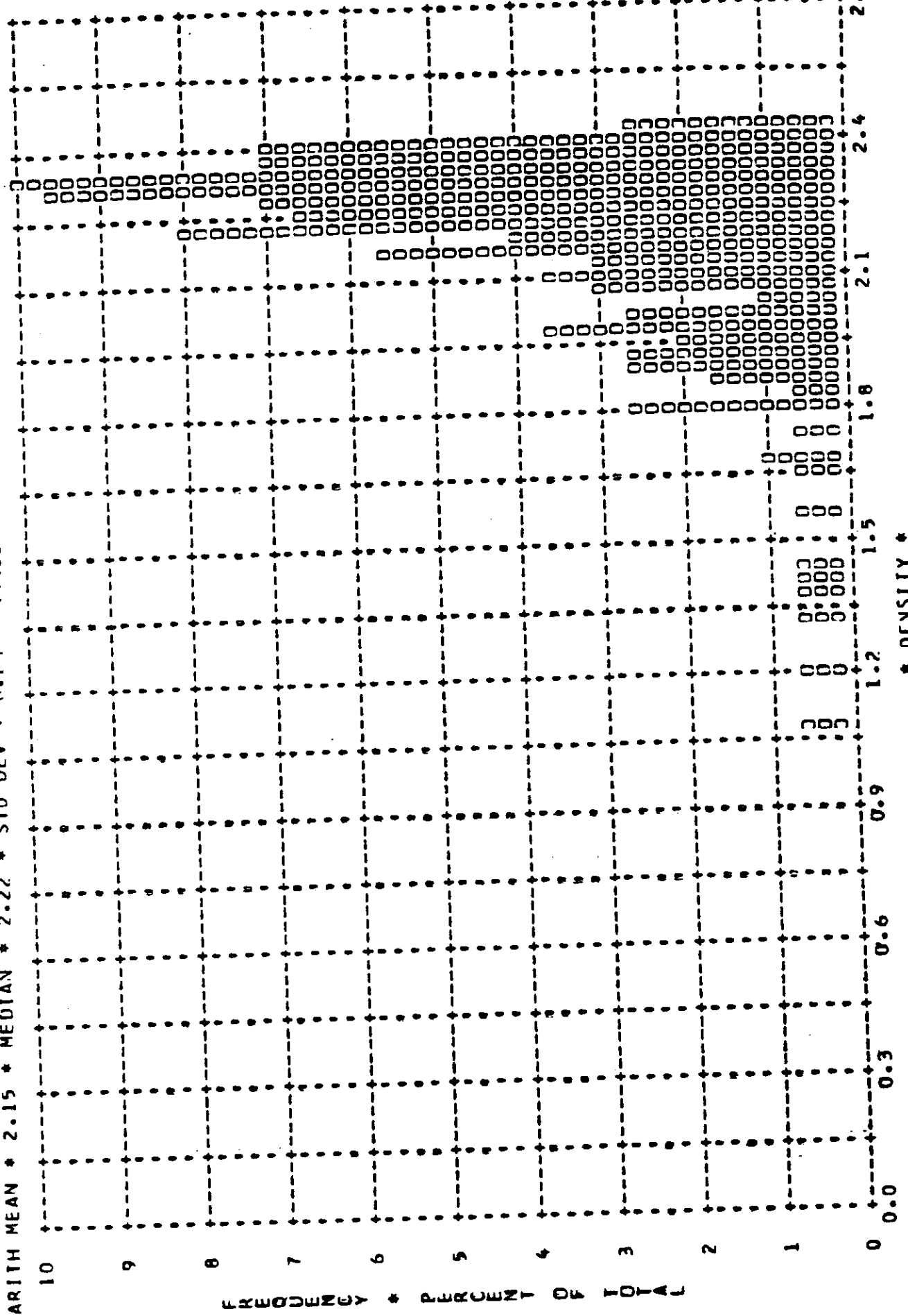


~~TOP SECRET~~

CONTROL NO.

MISSION * 1035-1 * INSTR * FRWD * 11/28/66 PLJT OF D MAX * CLOUD * PROCESSING * ALL LEVELS

ARITH MEAN * 2.15 * MEDIAN * 2.22 * STD DEV * 0.24 * RANGE * 1.06 TO 2.43 WITH 201 SAMPLES



MISSION * 1035-1 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.01	0	0	Q	0	0	0	0	0	0	0	0	0
0.02	0	0	Q	0	0	0	0	0	0	0	0	0
0.03	0	0	Q	0	0	0	0	0	0	0	0	0
0.04	0	0	Q	0	0	0	0	0	0	0	0	0
0.05	0	0	Q	0	0	0	0	0	0	0	0	0
0.06	0	0	Q	0	0	0	0	0	0	0	0	0
0.07	0	0	Q	0	0	0	0	0	0	0	0	0
0.08	0	0	Q	0	0	0	0	0	0	0	0	0
0.09	0	0	Q	0	0	0	0	0	0	0	0	0
0.10	0	0	Q	0	0	0	0	0	0	0	0	0
0.11	0	0	Q	0	0	0	0	0	0	0	0	0
0.12	0	0	Q	0	0	0	0	0	0	0	0	0
0.13	0	0	Q	0	0	0	0	0	0	0	0	0
0.14	0	0	Q	0	0	0	0	0	0	0	0	0
0.15	0	0	Q	0	0	0	0	0	0	0	0	0
0.16	0	0	Q	0	0	0	0	0	0	0	0	0
0.17	0	0	Q	0	0	0	0	0	0	0	0	0
0.18	0	0	Q	0	0	0	0	0	0	0	0	0
0.19	0	0	Q	0	0	0	0	0	0	0	0	0
0.20	0	0	Q	0	0	0	0	0	0	0	0	0
0.21	0	0	Q	0	0	0	0	0	0	0	0	0
0.22	0	0	Q	0	0	0	0	0	0	0	0	0
0.23	0	0	Q	0	0	0	0	0	0	0	0	0
0.24	0	0	Q	0	0	0	0	0	0	0	0	0
0.25	0	0	Q	0	0	0	0	0	0	0	0	0
0.26	0	0	Q	0	0	0	0	0	0	0	0	0
0.27	0	0	Q	0	0	0	0	0	0	0	0	0
0.28	0	0	Q	0	0	0	0	0	0	0	0	0
0.29	0	0	Q	0	0	0	0	0	0	0	0	0
0.30	0	0	Q	0	0	0	0	0	0	0	0	0
0.31	0	0	Q	0	0	0	0	0	0	0	0	0
0.32	0	0	Q	0	0	0	0	0	0	0	0	0
0.33	0	0	Q	0	0	0	0	0	0	0	0	0
0.34	0	0	Q	0	0	0	0	0	0	0	0	0
0.35	0	0	Q	0	0	0	0	0	0	0	0	0
0.36	0	0	Q	0	0	0	0	0	0	0	0	0
0.37	0	0	Q	0	0	0	0	0	0	0	0	0
0.38	0	0	Q	0	0	0	0	0	0	0	0	0
0.39	0	0	Q	0	0	0	0	0	0	0	0	0
0.40	0	0	Q	0	0	0	0	0	0	0	0	0
0.41	0	0	Q	0	0	0	0	0	0	0	0	0
0.42	0	0	Q	0	0	0	0	0	0	0	0	0
0.43	0	0	Q	0	0	0	0	0	0	0	0	0
0.44	0	0	Q	0	0	0	0	0	0	0	0	0
0.45	0	0	Q	0	0	0	0	0	0	0	0	0
0.46	0	0	Q	0	0	0	0	0	0	0	0	0
0.47	0	0	Q	0	0	0	0	0	0	0	0	0
0.48	0	0	Q	0	0	0	0	0	0	0	0	0
0.49	0	0	Q	0	0	0	0	0	0	0	0	0
0.50	0	0	Q	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	Q	10	0	0	16	8	0	0	17	8

Table A-2

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-1

* INSTRUMENT * AFT

11/28/66

DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.51	0	0	0	0	0	0	2	0	0	2	0	0
0.52	0	0	0	1	0	0	1	0	0	4	0	0
0.53	0	0	0	0	0	0	3	0	0	4	0	0
0.54	0	0	0	0	0	0	4	0	0	0	0	0
0.55	0	0	0	0	0	0	0	0	0	1	0	0
0.55	0	0	0	0	0	0	3	0	0	5	0	0
0.57	0	0	0	2	0	0	3	0	0	7	0	0
0.58	0	0	0	1	0	0	6	0	0	2	0	0
0.59	0	0	0	1	0	0	4	0	0	4	0	0
0.60	0	0	0	0	0	0	1	0	0	3	0	0
0.61	0	0	0	0	0	0	1	0	0	3	0	0
0.62	0	0	0	0	0	0	3	0	0	3	0	0
0.63	0	0	0	0	0	0	3	0	0	1	0	0
0.64	0	0	0	0	0	0	3	0	0	3	0	0
0.65	0	0	0	0	0	0	1	0	0	1	0	0
0.65	0	0	0	0	0	0	1	0	0	2	0	0
0.67	0	0	0	1	0	0	1	0	0	2	0	0
0.68	0	0	0	1	0	0	0	0	0	1	0	0
0.69	0	0	0	1	0	0	0	0	0	1	0	0
0.70	0	0	0	0	0	0	0	0	0	1	0	0
0.71	0	0	0	0	0	0	2	0	0	3	0	0
0.72	0	0	0	0	0	0	4	0	0	4	0	0
0.73	0	0	0	0	0	0	0	0	0	1	0	0
0.74	0	0	0	0	0	0	0	0	0	1	0	0
0.75	0	0	0	0	0	0	2	0	0	2	0	0
0.76	0	0	0	0	0	0	1	0	0	0	0	0
0.77	0	0	0	0	0	0	0	0	0	0	0	0
0.78	0	0	0	0	0	0	0	0	0	0	0	0
0.79	0	0	0	0	0	0	0	0	0	0	0	0
0.80	0	0	0	0	0	0	0	0	0	0	0	0
0.81	0	0	0	0	0	0	0	0	0	0	0	0
0.82	0	0	0	0	0	0	0	0	0	0	0	0
0.83	0	0	0	0	0	0	0	0	0	0	0	0
0.84	0	0	0	0	0	0	2	0	0	0	0	0
0.85	0	0	0	0	0	0	0	0	0	0	0	0
0.86	0	0	0	0	0	0	0	0	0	0	0	0
0.87	0	0	0	0	0	0	0	0	0	0	0	0
0.88	0	0	0	0	0	0	0	0	0	0	0	0
0.89	0	0	0	0	0	0	0	0	0	0	0	0
0.90	0	0	0	0	0	0	1	0	0	1	0	0
0.91	0	0	0	0	0	0	2	0	0	2	0	0
0.92	0	0	0	0	0	0	0	0	0	0	0	0
0.93	0	0	0	0	0	0	1	0	0	1	0	0
0.94	0	0	0	0	0	0	0	0	0	0	0	0
0.95	0	0	0	0	0	0	0	0	0	0	0	0
0.96	0	0	0	0	0	0	3	0	0	3	0	0
0.97	0	0	0	0	0	0	1	0	0	1	0	0
0.98	0	0	0	0	0	0	0	0	0	0	0	0
0.99	0	0	0	0	0	0	0	0	0	0	0	0
1.00	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	12	0	0	59	28	4	71	28	4

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-2

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-1 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.01	0	0	0	0	0	0	0	1	0	0	0	0
1.02	0	0	0	0	0	0	0	1	1	0	0	0
1.03	0	0	0	0	0	0	0	1	1	0	0	0
1.04	0	0	0	0	0	0	0	1	1	0	0	0
1.05	0	0	0	0	0	0	0	1	1	0	0	0
1.06	0	0	0	0	0	0	0	1	1	0	0	0
1.07	0	0	0	0	0	0	0	1	1	0	0	0
1.08	0	0	0	0	0	0	0	1	1	0	0	0
1.09	0	0	0	0	0	0	0	1	1	0	0	0
1.10	0	0	0	0	0	0	0	1	1	0	0	0
1.11	0	0	0	0	0	0	0	1	1	0	0	0
1.12	0	0	0	0	0	0	0	1	1	0	0	0
1.13	0	0	0	0	0	0	0	1	1	0	0	0
1.14	0	0	0	0	0	0	0	1	1	0	0	0
1.15	0	0	0	0	0	0	0	1	1	0	0	0
1.16	0	0	0	0	0	0	0	1	1	0	0	0
1.17	0	0	0	0	0	0	0	1	1	0	0	0
1.18	0	0	0	0	0	0	0	1	1	0	0	0
1.19	0	0	0	0	0	0	0	1	1	0	0	0
1.20	0	0	0	0	0	0	0	1	1	0	0	0
1.21	0	0	0	0	0	0	0	1	1	0	0	0
1.22	0	0	0	0	0	0	0	1	1	0	0	0
1.23	0	0	0	0	0	0	0	1	1	0	0	0
1.24	0	0	0	0	0	0	0	1	1	0	0	0
1.25	0	0	0	0	0	0	0	1	1	0	0	0
1.26	0	0	0	0	0	0	0	1	1	0	0	0
1.27	0	0	0	0	0	0	0	1	1	0	0	0
1.28	0	0	0	0	0	0	0	1	1	0	0	0
1.29	0	0	0	0	0	0	0	1	1	0	0	0
1.30	0	0	0	0	0	0	0	1	1	0	0	0
1.31	0	0	0	0	0	0	0	1	1	0	0	0
1.32	0	0	0	0	0	0	0	1	1	0	0	0
1.33	0	0	0	0	0	0	0	1	1	0	0	0
1.34	0	0	0	0	0	0	0	1	1	0	0	0
1.35	0	0	0	0	0	0	0	1	1	0	0	0
1.36	0	0	0	0	0	0	0	1	1	0	0	0
1.37	0	0	0	0	0	0	0	1	1	0	0	0
1.38	0	0	0	0	0	0	0	1	1	0	0	0
1.39	0	0	0	0	0	0	0	1	1	0	0	0
1.40	0	0	0	0	0	0	0	1	1	0	0	0
1.41	0	0	0	0	0	0	0	1	1	0	0	0
1.42	0	0	0	0	0	0	0	1	1	0	0	0
1.43	0	0	0	0	0	0	0	1	1	0	0	0
1.44	0	0	0	0	0	0	0	1	1	0	0	0
1.45	0	0	0	0	0	0	0	1	1	0	0	0
1.46	0	0	0	0	0	0	0	1	1	0	0	0
1.47	0	0	0	0	0	0	0	1	1	0	0	0
1.48	0	0	0	0	0	0	0	1	1	0	0	0
1.49	0	0	0	0	0	0	0	1	1	0	0	0
1.50	0	0	0	0	0	0	0	1	1	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	7	92	8	9	8

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-2

~~TOP SECRET~~

CONTROL NO. [REDACTED]

MISSION * 1035-1 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.51	0	0	0	0	1	0	0	1	0	0	2	0
1.52	0	0	0	0	1	0	0	1	3	0	1	1
1.53	0	0	0	0	1	0	0	1	3	0	1	1
1.54	0	0	0	0	1	0	0	1	3	0	1	1
1.55	0	0	0	0	1	0	0	1	3	0	1	1
1.56	0	0	0	0	1	0	0	1	3	0	1	1
1.57	0	0	0	0	1	0	0	1	3	0	1	1
1.58	0	0	0	0	1	0	0	1	3	0	1	1
1.59	0	0	0	0	1	0	0	1	3	0	1	1
1.60	0	0	0	0	1	0	0	1	3	0	1	1
1.61	0	0	0	0	1	0	0	1	3	0	1	1
1.62	0	0	0	0	1	0	0	1	3	0	1	1
1.63	0	0	0	0	1	0	0	1	3	0	1	1
1.64	0	0	0	0	1	0	0	1	3	0	1	1
1.65	0	0	0	0	1	0	0	1	3	0	1	1
1.66	0	0	0	0	1	0	0	1	3	0	1	1
1.67	0	0	0	0	1	0	0	1	3	0	1	1
1.68	0	0	0	0	1	0	0	1	3	0	1	1
1.69	0	0	0	0	1	0	0	1	3	0	1	1
1.70	0	0	0	0	1	0	0	1	3	0	1	1
1.71	0	0	0	0	1	0	0	1	3	0	1	1
1.72	0	0	0	0	1	0	0	1	3	0	1	1
1.73	0	0	0	0	1	0	0	1	3	0	1	1
1.74	0	0	0	0	1	0	0	1	3	0	1	1
1.75	0	0	0	0	1	0	0	1	3	0	1	1
1.76	0	0	0	0	1	0	0	1	3	0	1	1
1.77	0	0	0	0	1	0	0	1	3	0	1	1
1.78	0	0	0	0	1	0	0	1	3	0	1	1
1.79	0	0	0	0	1	0	0	1	3	0	1	1
1.80	0	0	0	0	1	0	0	1	3	0	1	1
1.81	0	0	0	0	1	0	0	1	3	0	1	1
1.82	0	0	0	0	1	0	0	1	3	0	1	1
1.83	0	0	0	0	1	0	0	1	3	0	1	1
1.84	0	0	0	0	1	0	0	1	3	0	1	1
1.85	0	0	0	0	1	0	0	1	3	0	1	1
1.86	0	0	0	0	1	0	0	1	3	0	1	1
1.87	0	0	0	0	1	0	0	1	3	0	1	1
1.88	0	0	0	0	1	0	0	1	3	0	1	1
1.89	0	0	0	0	1	0	0	1	3	0	1	1
1.90	0	0	0	0	1	0	0	1	3	0	1	1
1.91	0	0	0	0	1	0	0	1	3	0	1	1
1.92	0	0	0	0	1	0	0	1	3	0	1	1
1.93	0	0	0	0	1	0	0	1	3	0	1	1
1.94	0	0	0	0	1	0	0	1	3	0	1	1
1.95	0	0	0	0	1	0	0	1	3	0	1	1
1.96	0	0	0	0	1	0	0	1	3	0	1	1
1.97	0	0	0	0	1	0	0	1	3	0	1	1
1.98	0	0	0	0	1	0	0	1	3	0	1	1
1.99	0	0	0	0	1	0	0	1	3	0	1	1
2.00	0	0	0	0	1	0	0	1	3	0	1	1
SUBTOTAL					17		9	0	101	33	0	118

~~TOP SECRET~~

CONTROL NO. [REDACTED]

Table A-2

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-1 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
2.01	0	0	0	0	0	0	0	0	0	0	0	0
2.02	0	0	0	0	0	0	0	0	0	0	0	0
2.03	0	0	0	0	0	0	0	0	0	0	0	0
2.04	0	0	0	0	0	0	0	0	0	0	0	0
2.05	0	0	0	0	0	0	0	0	0	0	0	0
2.06	0	0	0	0	0	0	0	0	0	0	0	0
2.07	0	0	0	0	0	0	0	0	0	0	0	0
2.08	0	0	0	0	0	0	0	0	0	0	0	0
2.09	0	0	0	0	0	0	0	0	0	0	0	0
2.10	0	0	0	0	0	0	0	0	0	0	0	0
2.11	0	0	0	0	0	0	0	0	0	0	0	0
2.12	0	0	0	0	0	0	0	0	0	0	0	0
2.13	0	0	0	0	0	0	0	0	0	0	0	0
2.14	0	0	0	0	0	0	0	0	0	0	0	0
2.15	0	0	0	0	0	0	0	0	0	0	0	0
2.16	0	0	0	0	0	0	0	0	0	0	0	0
2.17	0	0	0	0	0	0	0	0	0	0	0	0
2.18	0	0	0	0	0	0	0	0	0	0	0	0
2.19	0	0	0	0	0	0	0	0	0	0	0	0
2.20	0	0	0	0	0	0	0	0	0	0	0	0
2.21	0	0	0	0	0	0	0	0	0	0	0	0
2.22	0	0	0	0	0	0	0	0	0	0	0	0
2.23	0	0	0	0	0	0	0	0	0	0	0	0
2.24	0	0	0	0	0	0	0	0	0	0	0	0
2.25	0	0	0	0	0	0	0	0	0	0	0	0
2.26	0	0	0	0	0	0	0	0	0	0	0	0
2.27	0	0	0	0	0	0	0	0	0	0	0	0
2.28	0	0	0	0	0	0	0	0	0	0	0	0
2.29	0	0	0	0	0	0	0	0	0	0	0	0
2.30	0	0	0	0	0	0	0	0	0	0	0	0
2.31	0	0	0	0	0	0	0	0	0	0	0	0
2.32	0	0	0	0	0	0	0	0	0	0	0	0
2.33	0	0	0	0	0	0	0	0	0	0	0	0
2.34	0	0	0	0	0	0	0	0	0	0	0	0
2.35	0	0	0	0	0	0	0	0	0	0	0	0
2.36	0	0	0	0	0	0	0	0	0	0	0	0
2.37	0	0	0	0	0	0	0	0	0	0	0	0
2.38	0	0	0	0	0	0	0	0	0	0	0	0
2.39	0	0	0	0	0	0	0	0	0	0	0	0
2.40	0	0	0	0	0	0	0	0	0	0	0	0
2.41	0	0	0	0	0	0	0	0	0	0	0	0
2.42	0	0	0	0	0	0	0	0	0	0	0	0
2.43	0	0	0	0	0	0	0	0	0	0	0	0
2.44	0	0	0	0	0	0	0	0	0	0	0	0
2.45	0	0	0	0	0	0	0	0	0	0	0	0
2.46	0	0	0	0	0	0	0	0	0	0	0	0
2.47	0	0	0	0	0	0	0	0	0	0	0	0
2.48	0	0	0	0	0	0	0	0	0	0	0	0
2.49	0	0	0	0	0	0	0	0	0	0	0	0
2.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-2

~~TOP SECRET~~

CONTROL NO. [REDACTED]

MISSION # 1035-1 * INSTRUMENT # APT

11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIN	MIN	MAX	LIN	MIN	MAX	LIN	MIN	MAX	LIN
2.51	0	0	0	0	0	0	0	0	0	0	0	0
2.52	0	0	0	0	0	0	0	0	0	0	0	0
2.53	0	0	0	0	0	0	0	0	0	0	0	0
2.54	0	0	0	0	0	0	0	0	0	0	0	0
2.55	0	0	0	0	0	0	0	0	0	0	0	0
2.56	0	0	0	0	0	0	0	0	0	0	0	0
2.57	0	0	0	0	0	0	0	0	0	0	0	0
2.58	0	0	0	0	0	0	0	0	0	0	0	0
2.59	0	0	0	0	0	0	0	0	0	0	0	0
2.60	0	0	0	0	0	0	0	0	0	0	0	0
2.61	0	0	0	0	0	0	0	0	0	0	0	0
2.62	0	0	0	0	0	0	0	0	0	0	0	0
2.63	0	0	0	0	0	0	0	0	0	0	0	0
2.64	0	0	0	0	0	0	0	0	0	0	0	0
2.65	0	0	0	0	0	0	0	0	0	0	0	0
2.66	0	0	0	0	0	0	0	0	0	0	0	0
2.67	0	0	0	0	0	0	0	0	0	0	0	0
2.68	0	0	0	0	0	0	0	0	0	0	0	0
2.69	0	0	0	0	0	0	0	0	0	0	0	0
2.70	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	24	24	14	234	234	185	250	250	204
TOTAL	0	0	0	24	24	14	234	234	185	250	250	204

Table A-1

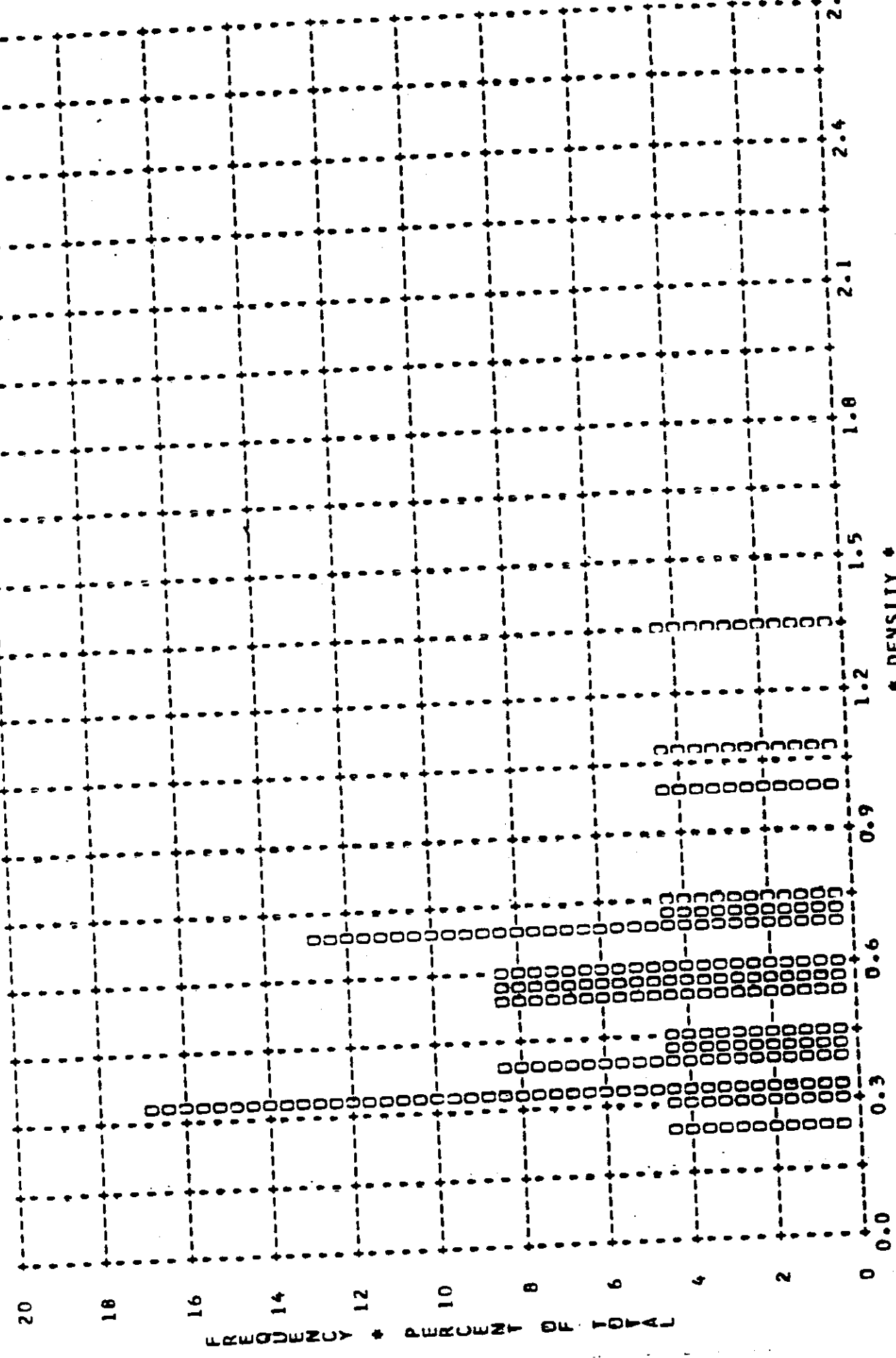
~~TOP SECRET~~

CONTROL NO.

TERRAIN * PROCESSING * INTERMEDIATE

MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MIN * RANGE * 0.24 TO 1.33 WITH 24 SAMPLES

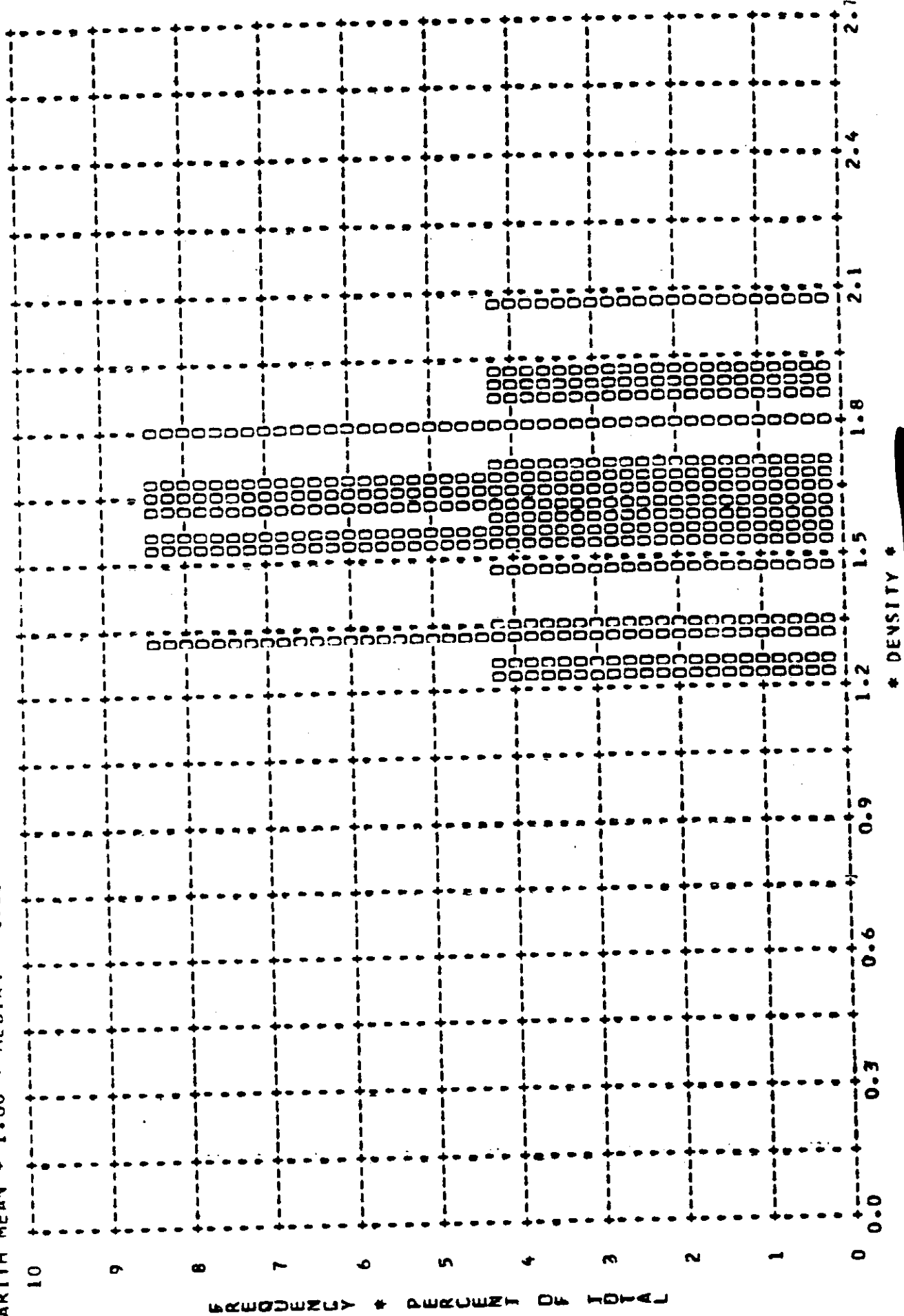
ARITH MEAN * 0.57 * MEDIAN * 0.57 * STD DEV * 0.27



~~TOP SECRET~~

CO., DL NO.

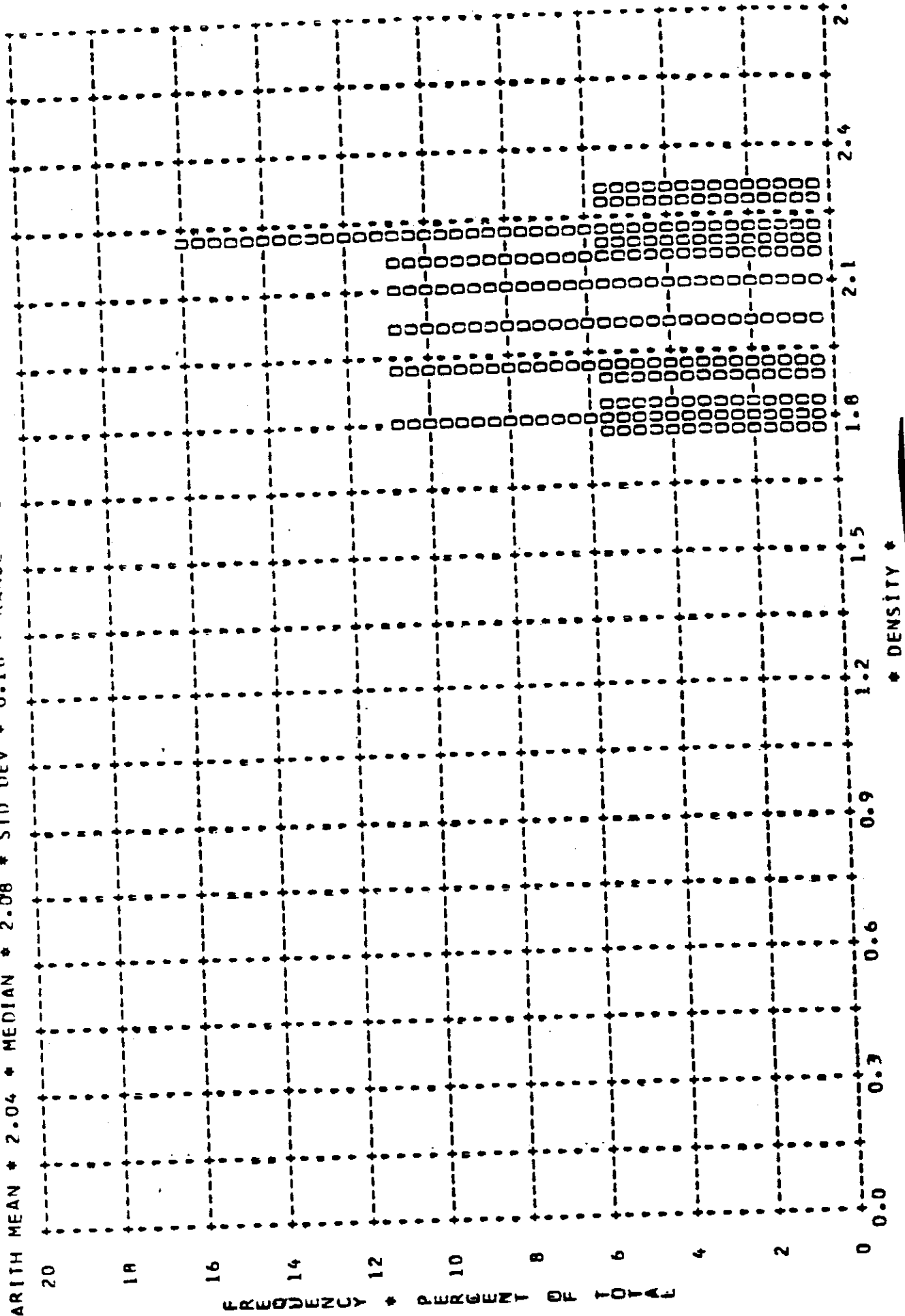
MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 1.60 * MEDIAN * 1.60 * STD DEV * 0.22 * RANGE * 1.23 TO 2.06 WITH 24 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL NO.

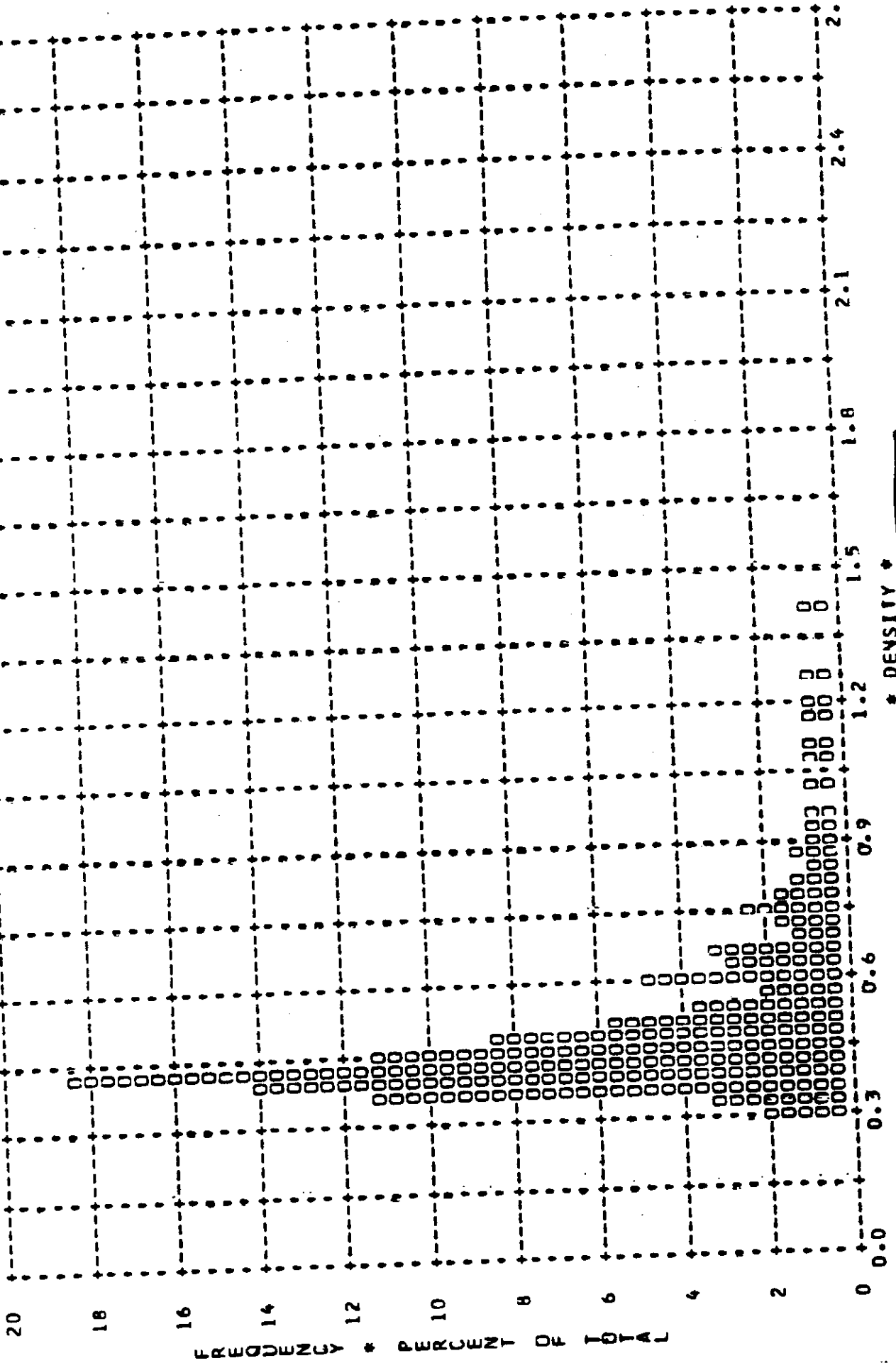
MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * INTERMEDIATE
ARITH MEAN * 2.04 * MEDIAN * 2.08 * STD DEV * 0.18 * RANGE * 1.75 TO 2.30 WITH 19 SAMPLES



~~TOP SECRET~~

CONTROL NO.

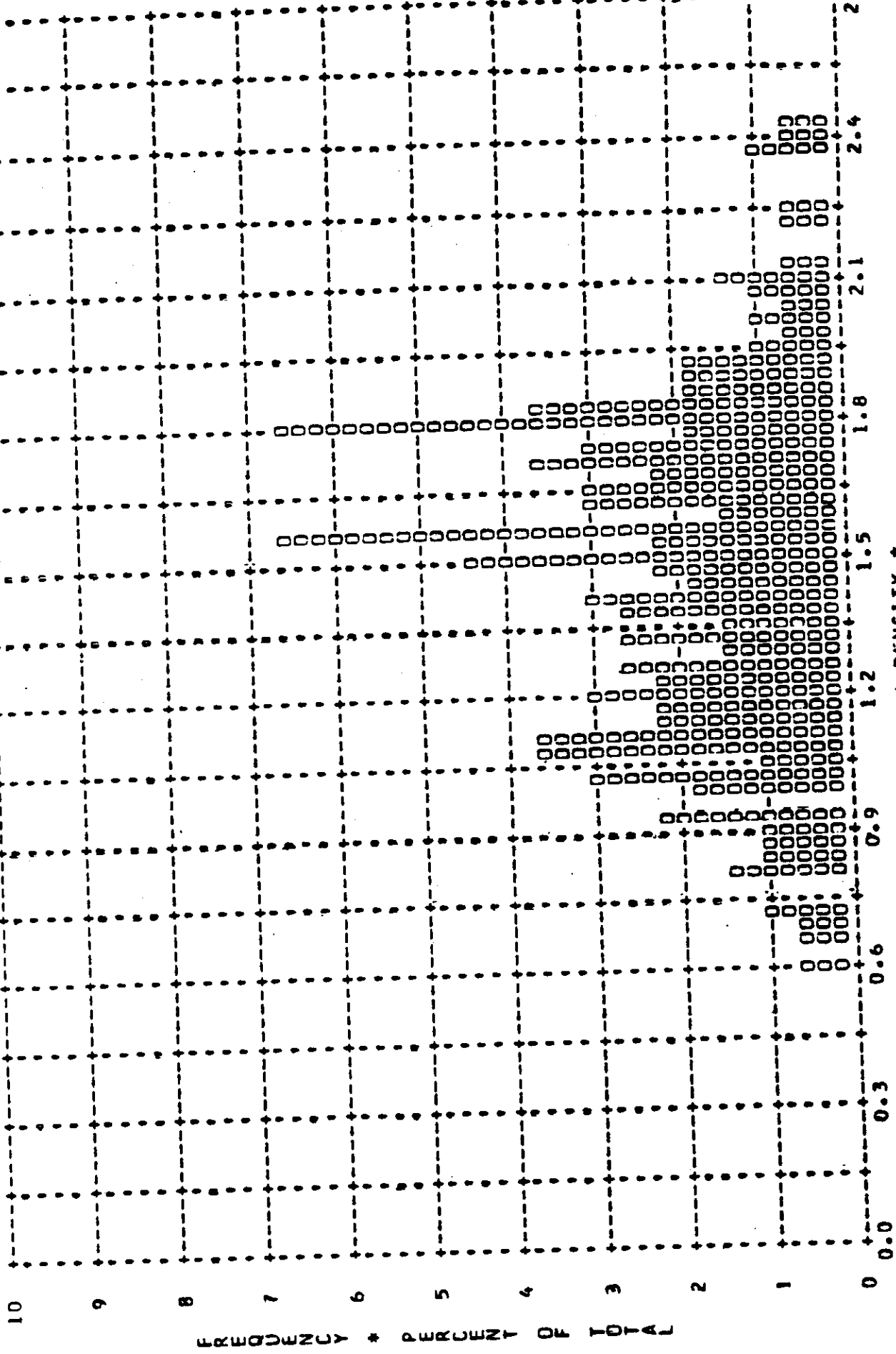
MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * FULL
ARITH MEAN * 0.49 * MEDIAN * 0.43 * STD DEV * 0.18 * RANGE * 0.29 TO 1.39 WITH 234 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL NO.

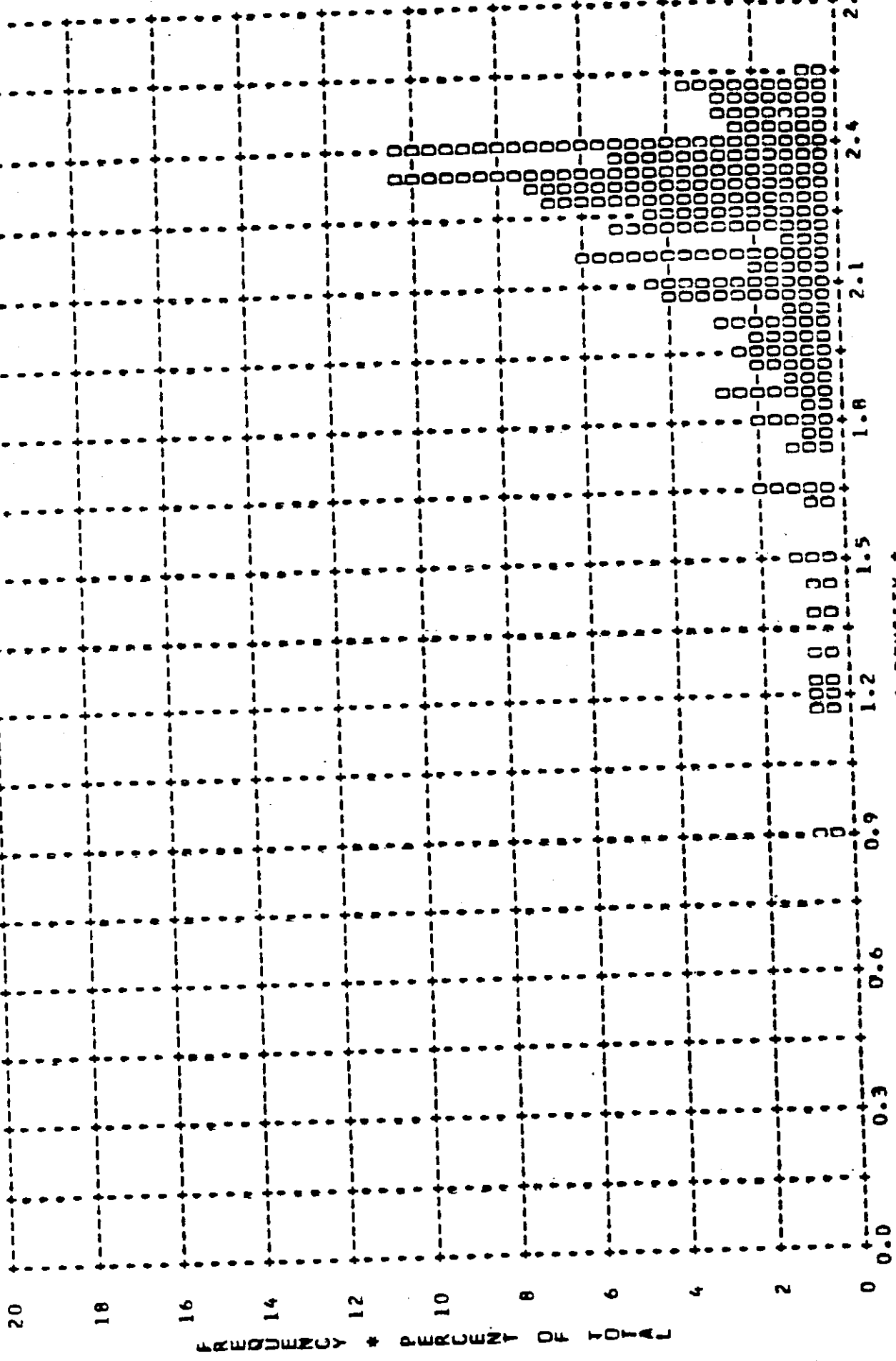
MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * FULL
ARITH MEAN * 1.47 * MEDIAN * 1.50 * STD DEV * 0.35 * RANGE * 0.50 TO 2.42 WITH 234 SAMPLES



TOP SECRET

CONFIDENTIAL NO.

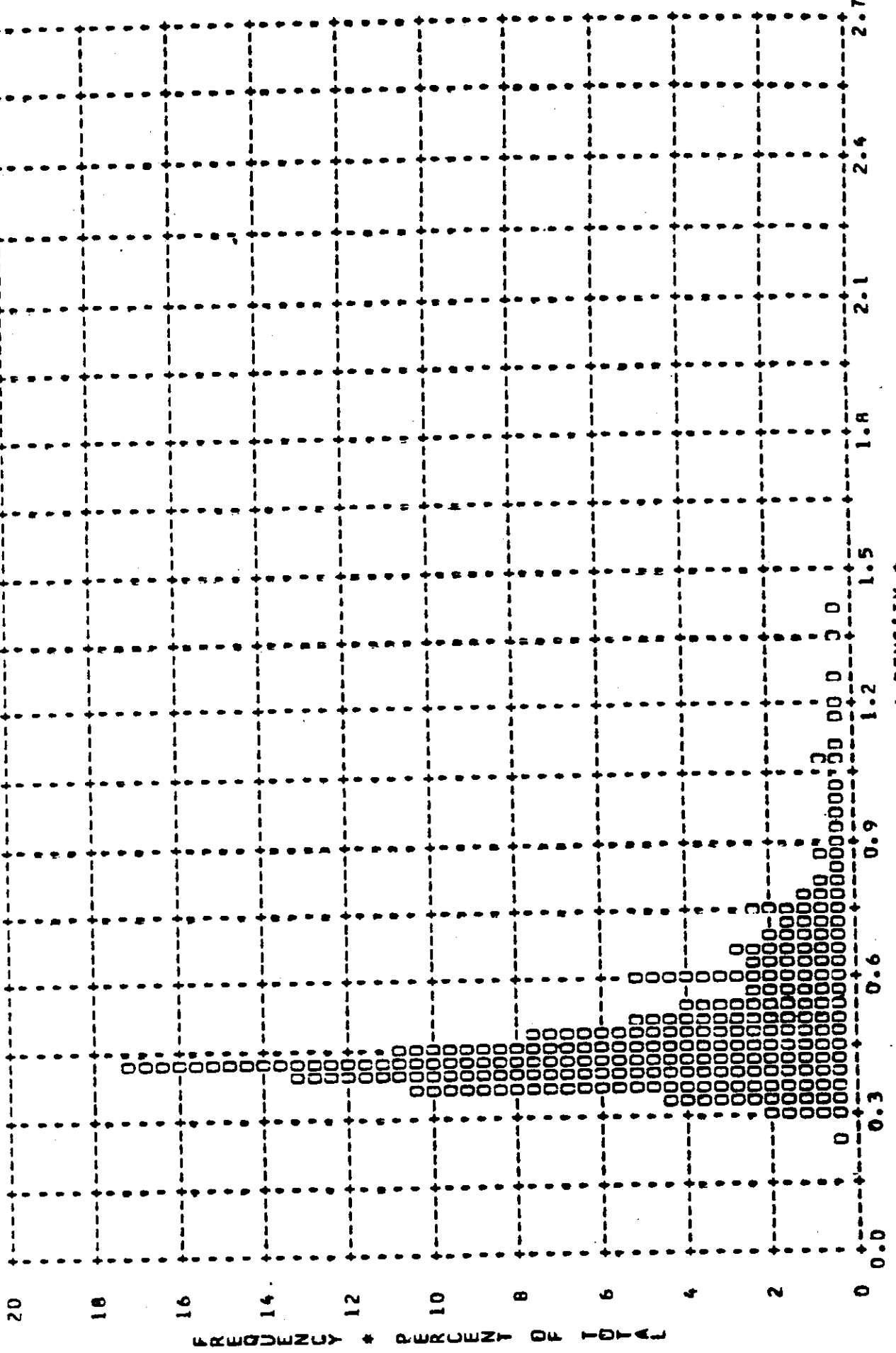
MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * FULL
ARITH MEAN * 2.16 * MEDIAN * 2.26 * STD DEV * 0.29 * RANGE * 0.90 TO 2.55 WITH 185 SAMPLES



~~TOP SECRET~~

CONTROL NO.

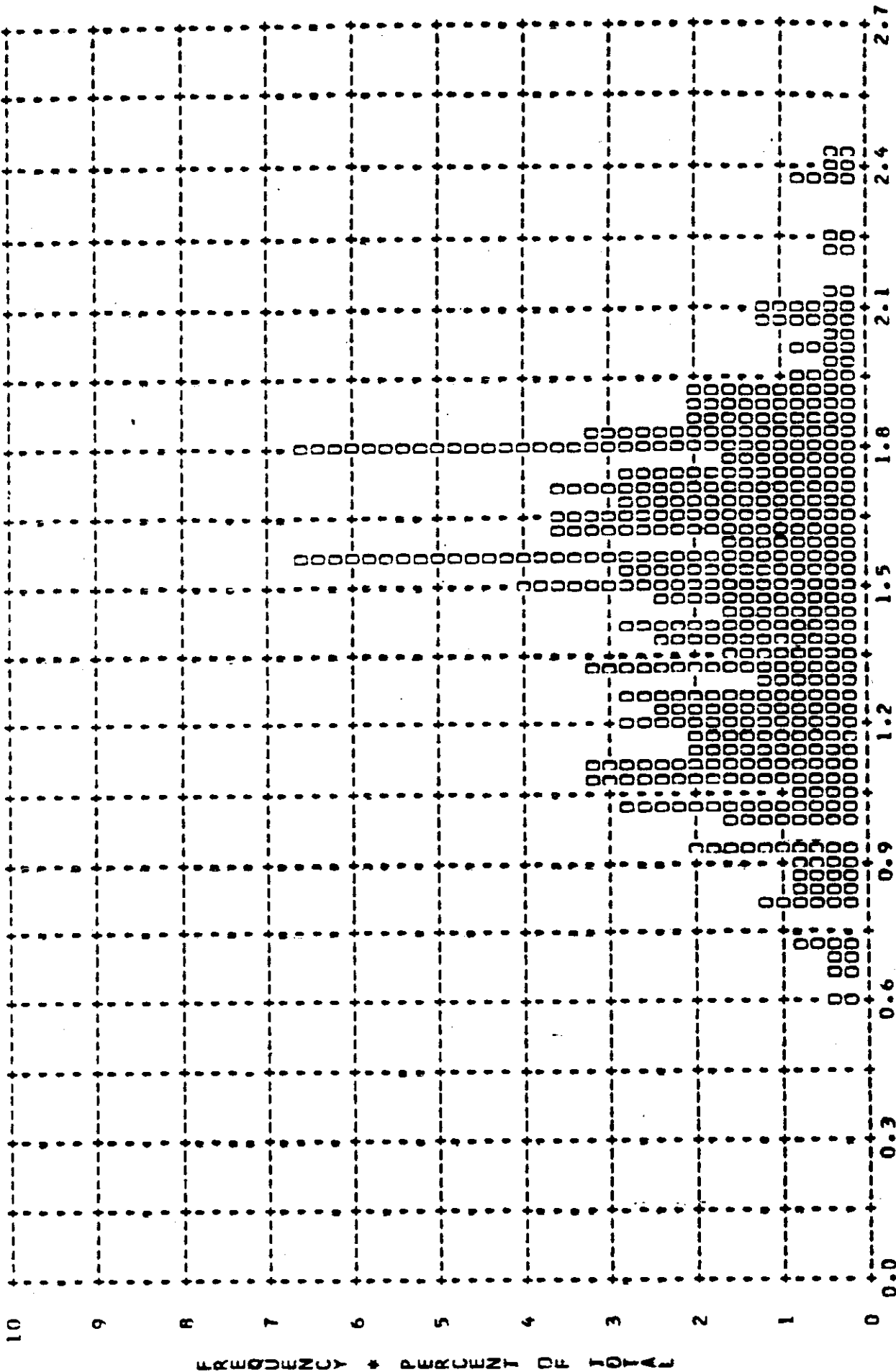
MISSION * 1035-1 * INSTR * AFI * 11/28/66 PLINT OF D MIN * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 0.50 * MEDIAN * 0.43 * STD DEV * 0.19 * RANGE * 0.24 TO 1.39 WITH 258 SAMPLES



TOP SECRET

CONFIDENTIAL NO.

MISSION * 1035-1 * INSTR * AFT * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 1.48 * MEDIAN * 1.53 * STD DEV * 0.36 * RANGE * 0.60 TO 2.42 WITH 258 SAMPLES



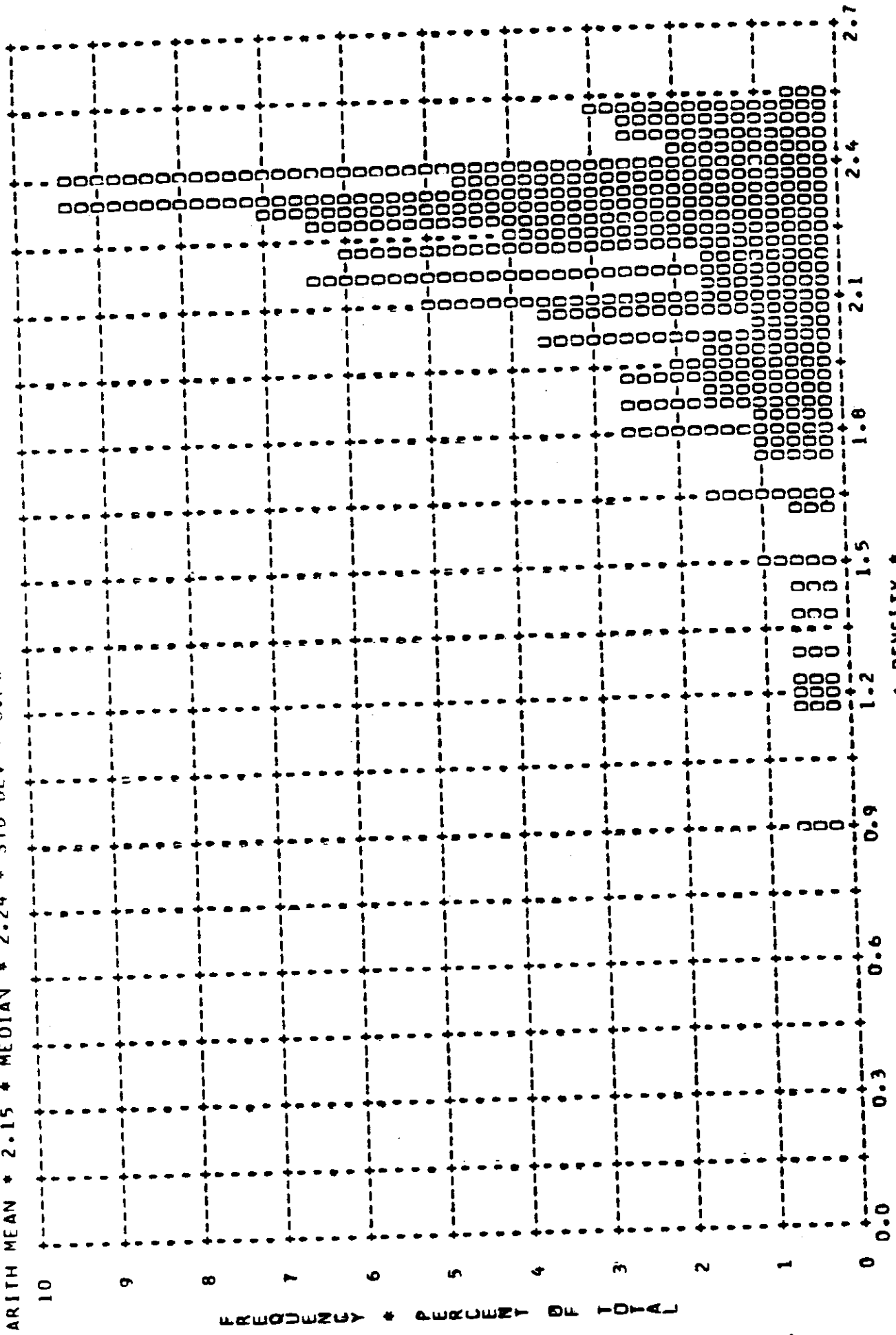
DENSITY

TOP SECRET

~~TOP SECRET~~

CDV...JL WJ.

MISSION * 1035-1 * INSTR * AFI * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * ALL LEVELS
ARITH MEAN * 2.15 * MEDIAN * 2.24 * STD DEV * 0.78 * RANGE * 0.70 TO 2.55 WITH 204 SAMPLES



~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * FRWD

11/28/66

DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.01	0	0	0	0	0	0	0	0	0	0	0	0
0.02	0	0	0	0	0	0	0	0	0	0	0	0
0.03	0	0	0	0	0	0	0	0	0	0	0	0
0.04	0	0	0	0	0	0	0	0	0	0	0	0
0.05	0	0	0	0	0	0	0	0	0	0	0	0
0.06	0	0	0	0	0	0	0	0	0	0	0	0
0.07	0	0	0	0	0	0	0	0	0	0	0	0
0.08	0	0	0	0	0	0	0	0	0	0	0	0
0.09	0	0	0	0	0	0	0	0	0	0	0	0
0.10	0	0	0	0	0	0	0	0	0	0	0	0
0.11	0	0	0	0	0	0	0	0	0	0	0	0
0.12	0	0	0	0	0	0	0	0	0	0	0	0
0.13	0	0	0	0	0	0	0	0	0	0	0	0
0.14	0	0	0	0	0	0	0	0	0	0	0	0
0.15	0	0	0	0	0	0	0	0	0	0	0	0
0.16	0	0	0	0	0	0	0	0	0	0	0	0
0.17	0	0	0	0	0	0	0	0	0	0	0	0
0.18	0	0	0	0	0	0	0	0	0	0	0	0
0.19	0	0	0	0	0	0	0	0	0	0	0	0
0.20	0	0	0	0	0	0	0	0	0	0	0	0
0.21	0	0	0	0	0	0	0	0	0	0	0	0
0.22	0	0	0	0	0	0	0	0	0	0	0	0
0.23	0	0	0	0	0	0	0	0	0	0	0	0
0.24	0	0	0	0	0	0	0	0	0	0	0	0
0.25	0	0	0	0	0	0	0	0	0	0	0	0
0.26	0	0	0	0	0	0	0	0	0	0	0	0
0.27	0	0	0	0	0	0	0	0	0	0	0	0
0.28	0	0	0	0	0	0	0	0	0	0	0	0
0.29	0	0	0	0	0	0	0	0	0	0	0	0
0.30	0	0	0	0	0	0	0	0	0	0	0	0
0.31	0	0	0	0	0	0	0	0	0	0	0	0
0.32	0	0	0	0	0	0	0	0	0	0	0	0
0.33	0	0	0	0	0	0	0	0	0	0	0	0
0.34	0	0	0	0	0	0	0	0	0	0	0	0
0.35	0	0	0	0	0	0	0	0	0	0	0	0
0.36	0	0	0	0	0	0	0	0	0	0	0	0
0.37	0	0	0	0	0	0	0	0	0	0	0	0
0.38	0	0	0	0	0	0	0	0	0	0	0	0
0.39	0	0	0	0	0	0	0	0	0	0	0	0
0.40	0	0	0	0	0	0	0	0	0	0	0	0
0.41	0	0	0	0	0	0	0	0	0	0	0	0
0.42	0	0	0	0	0	0	0	0	0	0	0	0
0.43	0	0	0	0	0	0	0	0	0	0	0	0
0.44	0	0	0	0	0	0	0	0	0	0	0	0
0.45	0	0	0	0	0	0	0	0	0	0	0	0
0.46	0	0	0	0	0	0	0	0	0	0	0	0
0.47	0	0	0	0	0	0	0	0	0	0	0	0
0.48	0	0	0	0	0	0	0	0	0	0	0	0
0.49	0	0	0	0	0	0	0	0	0	0	0	0
0.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-3

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.51	0	0	0	0	0	0	5	0	0	5	0	0
0.52	0	0	0	2	0	0	5	0	0	6	0	0
0.53	0	0	0	0	0	0	5	0	0	6	0	0
0.54	0	0	0	0	0	0	5	0	0	6	0	0
0.55	0	0	0	0	0	0	5	0	0	6	0	0
0.56	0	0	0	0	0	0	5	0	0	6	0	0
0.57	0	0	0	0	0	0	5	0	0	6	0	0
0.58	0	0	0	0	0	0	5	0	0	6	0	0
0.59	0	0	0	0	0	0	5	0	0	6	0	0
0.60	0	0	0	0	0	0	5	0	0	6	0	0
0.61	0	0	0	0	0	0	5	0	0	6	0	0
0.62	0	0	0	0	0	0	5	0	0	6	0	0
0.63	0	0	0	0	0	0	5	0	0	6	0	0
0.64	0	0	0	0	0	0	5	0	0	6	0	0
0.65	0	0	0	0	0	0	5	0	0	6	0	0
0.66	0	0	0	0	0	0	5	0	0	6	0	0
0.67	0	0	0	0	0	0	5	0	0	6	0	0
0.68	0	0	0	0	0	0	5	0	0	6	0	0
0.69	0	0	0	0	0	0	5	0	0	6	0	0
0.70	0	0	0	0	0	0	5	0	0	6	0	0
0.71	0	0	0	0	0	0	5	0	0	6	0	0
0.72	0	0	0	0	0	0	5	0	0	6	0	0
0.73	0	0	0	0	0	0	5	0	0	6	0	0
0.74	0	0	0	0	0	0	5	0	0	6	0	0
0.75	0	0	0	0	0	0	5	0	0	6	0	0
0.76	0	0	0	0	0	0	5	0	0	6	0	0
0.77	0	0	0	0	0	0	5	0	0	6	0	0
0.78	0	0	0	0	0	0	5	0	0	6	0	0
0.79	0	0	0	0	0	0	5	0	0	6	0	0
0.80	0	0	0	0	0	0	5	0	0	6	0	0
0.81	0	0	0	0	0	0	5	0	0	6	0	0
0.82	0	0	0	0	0	0	5	0	0	6	0	0
0.83	0	0	0	0	0	0	5	0	0	6	0	0
0.84	0	0	0	0	0	0	5	0	0	6	0	0
0.85	0	0	0	0	0	0	5	0	0	6	0	0
0.86	0	0	0	0	0	0	5	0	0	6	0	0
0.87	0	0	0	0	0	0	5	0	0	6	0	0
0.88	0	0	0	0	0	0	5	0	0	6	0	0
0.89	0	0	0	0	0	0	5	0	0	6	0	0
0.90	0	0	0	0	0	0	5	0	0	6	0	0
0.91	0	0	0	0	0	0	5	0	0	6	0	0
0.92	0	0	0	0	0	0	5	0	0	6	0	0
0.93	0	0	0	0	0	0	5	0	0	6	0	0
0.94	0	0	0	0	0	0	5	0	0	6	0	0
0.95	0	0	0	0	0	0	5	0	0	6	0	0
0.96	0	0	0	0	0	0	5	0	0	6	0	0
0.97	0	0	0	0	0	0	5	0	0	6	0	0
0.98	0	0	0	0	0	0	5	0	0	6	0	0
0.99	0	0	0	0	0	0	5	0	0	6	0	0
1.00	0	0	0	0	0	0	5	0	0	6	0	0
SUBTOTAL	0	0	0	22	3	0	81	61	1	103	64	1

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-3

~~TOP SECRET~~

CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * FRND

11/28/66

DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.01	0	0	0	0	0	0	0	0	0	0	0	0
1.02	0	0	0	0	0	0	0	0	0	0	0	0
1.03	0	0	0	0	0	0	0	0	0	0	0	0
1.04	0	0	0	0	0	0	0	0	0	0	0	0
1.05	0	0	0	0	0	0	0	0	0	0	0	0
1.06	0	0	0	0	0	0	0	0	0	0	0	0
1.07	0	0	0	0	0	0	0	0	0	0	0	0
1.08	0	0	0	0	0	0	0	0	0	0	0	0
1.09	0	0	0	0	0	0	0	0	0	0	0	0
1.10	0	0	0	0	0	0	0	0	0	0	0	0
1.11	0	0	0	0	0	0	0	0	0	0	0	0
1.12	0	0	0	0	0	0	0	0	0	0	0	0
1.13	0	0	0	0	0	0	0	0	0	0	0	0
1.14	0	0	0	0	0	0	0	0	0	0	0	0
1.15	0	0	0	0	0	0	0	0	0	0	0	0
1.16	0	0	0	0	0	0	0	0	0	0	0	0
1.17	0	0	0	0	0	0	0	0	0	0	0	0
1.18	0	0	0	0	0	0	0	0	0	0	0	0
1.19	0	0	0	0	0	0	0	0	0	0	0	0
1.20	0	0	0	0	0	0	0	0	0	0	0	0
1.21	0	0	0	0	0	0	0	0	0	0	0	0
1.22	0	0	0	0	0	0	0	0	0	0	0	0
1.23	0	0	0	0	0	0	0	0	0	0	0	0
1.24	0	0	0	0	0	0	0	0	0	0	0	0
1.25	0	0	0	0	0	0	0	0	0	0	0	0
1.26	0	0	0	0	0	0	0	0	0	0	0	0
1.27	0	0	0	0	0	0	0	0	0	0	0	0
1.28	0	0	0	0	0	0	0	0	0	0	0	0
1.29	0	0	0	0	0	0	0	0	0	0	0	0
1.30	0	0	0	0	0	0	0	0	0	0	0	0
1.31	0	0	0	0	0	0	0	0	0	0	0	0
1.32	0	0	0	0	0	0	0	0	0	0	0	0
1.33	0	0	0	0	0	0	0	0	0	0	0	0
1.34	0	0	0	0	0	0	0	0	0	0	0	0
1.35	0	0	0	0	0	0	0	0	0	0	0	0
1.36	0	0	0	0	0	0	0	0	0	0	0	0
1.37	0	0	0	0	0	0	0	0	0	0	0	0
1.38	0	0	0	0	0	0	0	0	0	0	0	0
1.39	0	0	0	0	0	0	0	0	0	0	0	0
1.40	0	0	0	0	0	0	0	0	0	0	0	0
1.41	0	0	0	0	0	0	0	0	0	0	0	0
1.42	0	0	0	0	0	0	0	0	0	0	0	0
1.43	0	0	0	0	0	0	0	0	0	0	0	0
1.44	0	0	0	0	0	0	0	0	0	0	0	0
1.45	0	0	0	0	0	0	0	0	0	0	0	0
1.46	0	0	0	0	0	0	0	0	0	0	0	0
1.47	0	0	0	0	0	0	0	0	0	0	0	0
1.48	0	0	0	0	0	0	0	0	0	0	0	0
1.49	0	0	0	0	0	0	0	0	0	0	0	0
1.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0

~~TOP SECRET~~

CONTROL NO. [REDACTED]

Table A-3

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.51	0	0	0	0	0	0	0	0	0	0	0	0
1.52	0	0	0	0	0	0	0	0	0	0	0	0
1.53	0	0	0	0	0	0	0	0	0	0	0	0
1.54	0	0	0	0	0	0	0	0	0	0	0	0
1.55	0	0	0	0	0	0	0	0	0	0	0	0
1.56	0	0	0	0	0	0	0	0	0	0	0	0
1.57	0	0	0	0	0	0	0	0	0	0	0	0
1.58	0	0	0	0	0	0	0	0	0	0	0	0
1.59	0	0	0	0	0	0	0	0	0	0	0	0
1.60	0	0	0	0	0	0	0	0	0	0	0	0
1.61	0	0	0	0	0	0	0	0	0	0	0	0
1.62	0	0	0	0	0	0	0	0	0	0	0	0
1.63	0	0	0	0	0	0	0	0	0	0	0	0
1.64	0	0	0	0	0	0	0	0	0	0	0	0
1.65	0	0	0	0	0	0	0	0	0	0	0	0
1.66	0	0	0	0	0	0	0	0	0	0	0	0
1.67	0	0	0	0	0	0	0	0	0	0	0	0
1.68	0	0	0	0	0	0	0	0	0	0	0	0
1.69	0	0	0	0	0	0	0	0	0	0	0	0
1.70	0	0	0	0	0	0	0	0	0	0	0	0
1.71	0	0	0	0	0	0	0	0	0	0	0	0
1.72	0	0	0	0	0	0	0	0	0	0	0	0
1.73	0	0	0	0	0	0	0	0	0	0	0	0
1.74	0	0	0	0	0	0	0	0	0	0	0	0
1.75	0	0	0	0	0	0	0	0	0	0	0	0
1.75	0	0	0	0	0	0	0	0	0	0	0	0
1.77	0	0	0	0	0	0	0	0	0	0	0	0
1.78	0	0	0	0	0	0	0	0	0	0	0	0
1.79	0	0	0	0	0	0	0	0	0	0	0	0
1.80	0	0	0	0	0	0	0	0	0	0	0	0
1.81	0	0	0	0	0	0	0	0	0	0	0	0
1.82	0	0	0	0	0	0	0	0	0	0	0	0
1.83	0	0	0	0	0	0	0	0	0	0	0	0
1.84	0	0	0	0	0	0	0	0	0	0	0	0
1.85	0	0	0	0	0	0	0	0	0	0	0	0
1.86	0	0	0	0	0	0	0	0	0	0	0	0
1.87	0	0	0	0	0	0	0	0	0	0	0	0
1.88	0	0	0	0	0	0	0	0	0	0	0	0
1.89	0	0	0	0	0	0	0	0	0	0	0	0
1.90	0	0	0	0	0	0	0	0	0	0	0	0
1.91	0	0	0	0	0	0	0	0	0	0	0	0
1.92	0	0	0	0	0	0	0	0	0	0	0	0
1.93	0	0	0	0	0	0	0	0	0	0	0	0
1.94	0	0	0	0	0	0	0	0	0	0	0	0
1.95	0	0	0	0	0	0	0	0	0	0	0	0
1.96	0	0	0	0	0	0	0	0	0	0	0	0
1.97	0	0	0	0	0	0	0	0	0	0	0	0
1.98	0	0	0	0	0	0	0	0	0	0	0	0
1.99	0	0	0	0	0	0	0	0	0	0	0	0
2.00	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	23	18	0	61	48	0	84	66

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-3

~~TOP SECRET~~

CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
2.01	0	0	0	0	1	0	0	0	0	0	1	0
2.02	0	0	0	0	1	0	0	0	0	0	1	0
2.03	0	0	0	0	0	0	0	0	0	0	0	0
2.04	0	0	0	0	0	0	0	0	0	0	0	0
2.05	0	0	0	0	0	0	0	0	0	0	0	0
2.06	0	0	0	0	0	0	0	0	0	0	0	0
2.07	0	0	0	0	0	0	0	0	0	0	0	0
2.08	0	0	0	0	0	0	0	0	0	0	0	0
2.09	0	0	0	0	0	0	0	0	0	0	0	0
2.10	0	0	0	0	0	0	0	0	0	1	1	1
2.11	0	0	0	0	0	0	0	0	0	1	1	1
2.12	0	0	0	0	0	0	0	0	0	1	1	1
2.13	0	0	0	0	0	0	0	0	0	1	1	1
2.14	0	0	0	0	0	0	0	0	0	1	1	1
2.15	0	0	0	0	0	0	0	0	0	1	1	1
2.16	0	0	0	0	0	0	0	0	0	1	1	1
2.17	0	0	0	0	0	0	0	0	0	1	1	1
2.18	0	0	0	0	0	0	0	0	0	1	1	1
2.19	0	0	0	0	0	0	0	0	0	1	1	1
2.20	0	0	0	0	0	0	0	0	0	1	1	1
2.21	0	0	0	0	0	0	0	0	0	1	1	1
2.22	0	0	0	0	0	0	0	0	0	1	1	1
2.23	0	0	0	0	0	0	0	0	0	1	1	1
2.24	0	0	0	0	0	0	0	0	0	1	1	1
2.25	0	0	0	0	0	0	0	0	0	1	1	1
2.26	0	0	0	0	0	0	0	0	0	1	1	1
2.27	0	0	0	0	0	0	0	0	0	1	1	1
2.28	0	0	0	0	0	0	0	0	0	1	1	1
2.29	0	0	0	0	0	0	0	0	0	1	1	1
2.30	0	0	0	0	0	0	0	0	0	1	1	1
2.31	0	0	0	0	0	0	0	0	0	1	1	1
2.32	0	0	0	0	0	0	0	0	0	1	1	1
2.33	0	0	0	0	0	0	0	0	0	1	1	1
2.34	0	0	0	0	0	0	0	0	0	1	1	1
2.35	0	0	0	0	0	0	0	0	0	1	1	1
2.36	0	0	0	0	0	0	0	0	0	1	1	1
2.37	0	0	0	0	0	0	0	0	0	1	1	1
2.38	0	0	0	0	0	0	0	0	0	1	1	1
2.39	0	0	0	0	0	0	0	0	0	1	1	1
2.40	0	0	0	0	0	0	0	0	0	1	1	1
2.41	0	0	0	0	0	0	0	0	0	1	1	1
2.42	0	0	0	0	0	0	0	0	0	1	1	1
2.43	0	0	0	0	0	0	0	0	0	1	1	1
2.44	0	0	0	0	0	0	0	0	0	1	1	1
2.45	0	0	0	0	0	0	0	0	0	1	1	1
2.46	0	0	0	0	0	0	0	0	0	1	1	1
2.47	0	0	0	0	0	0	0	0	0	1	1	1
2.48	0	0	0	0	0	0	0	0	0	1	1	1
2.49	0	0	0	0	0	0	0	0	0	1	1	1
2.50	0	0	0	0	0	0	0	0	0	1	1	1
SUBTOTAL	0	0	0	0	3	30	0	11	151	0	14	181

~~TOP SECRET~~

CONTROL NO. [REDACTED]

Table A-2

~~TOP SECRET~~

CONTROL NO.

MISSION # 1045-2 * INSTRUMENT # FRWD 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIN	MIN	MAX	LIN	MIN	MAX	LIN	MIN	MAX	LIN
2.51	0	0	0	0	0	0	0	0	0	0	0	0
2.52	0	0	0	0	0	0	0	0	0	0	0	0
2.53	0	0	0	0	0	0	0	0	0	0	0	0
2.54	0	0	0	0	0	0	0	0	0	0	0	0
2.55	0	0	0	0	0	0	0	0	0	0	0	0
2.56	0	0	0	0	0	0	0	0	0	0	0	0
2.57	0	0	0	0	0	0	0	0	0	0	0	0
2.58	0	0	0	0	0	0	0	0	0	0	0	0
2.59	0	0	0	0	0	0	0	0	0	0	0	0
2.60	0	0	0	0	0	0	0	0	0	0	0	0
2.61	0	0	0	0	0	0	0	0	0	0	0	0
2.62	0	0	0	0	0	0	0	0	0	0	0	0
2.63	0	0	0	0	0	0	0	0	0	0	0	0
2.64	0	0	0	0	0	0	0	0	0	0	0	0
2.65	0	0	0	0	0	0	0	0	0	0	0	0
2.66	0	0	0	0	0	0	0	0	0	0	0	0
2.67	0	0	0	0	0	0	0	0	0	0	0	0
2.68	0	0	0	0	0	0	0	0	0	0	0	0
2.69	0	0	0	0	0	0	0	0	0	0	0	0
2.70	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	48	48	48	220	220	210	260	260	250

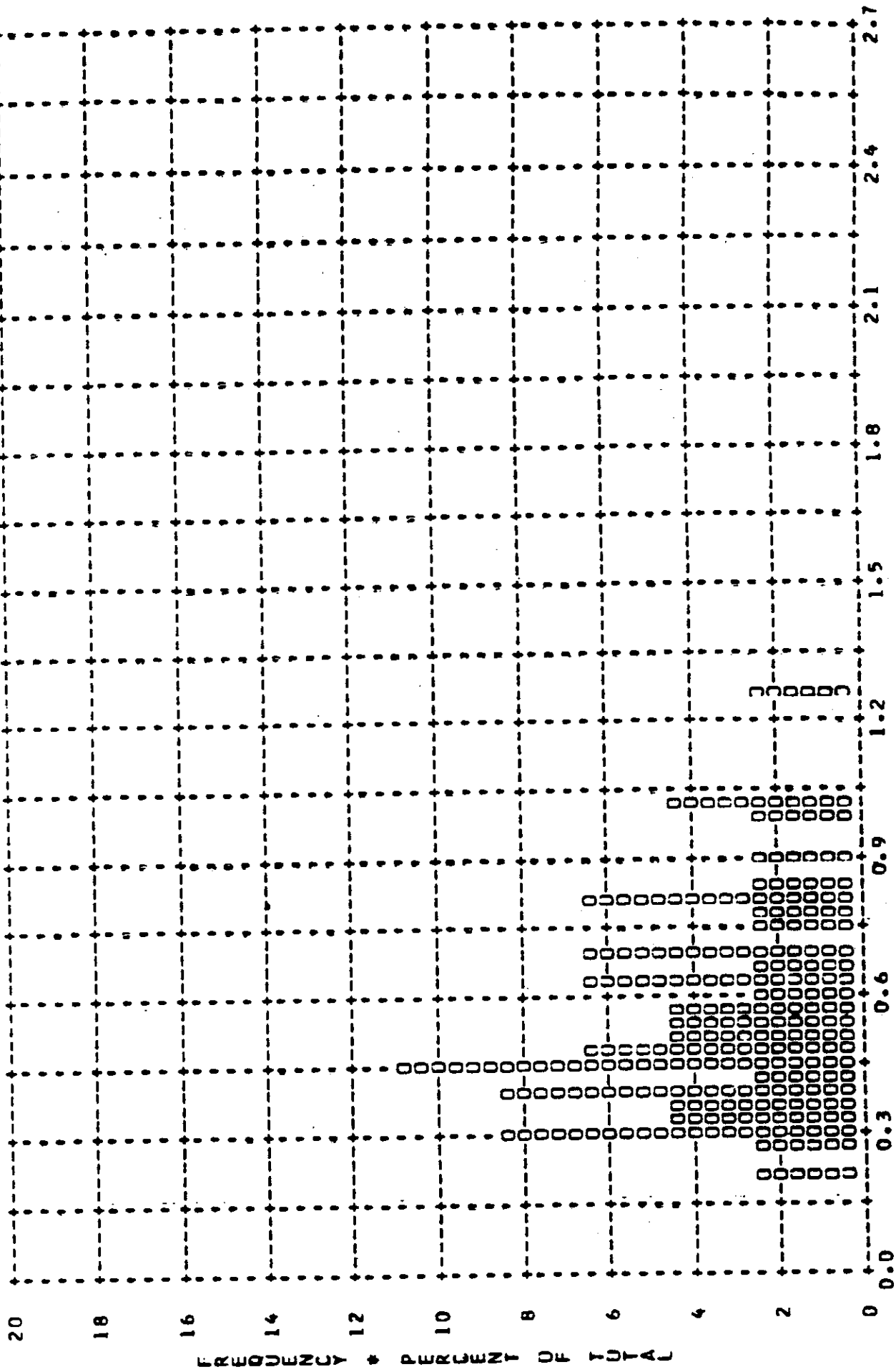
Page A-

A-

~~TOP SECRET~~

COVINJL NO. [REDACTED]

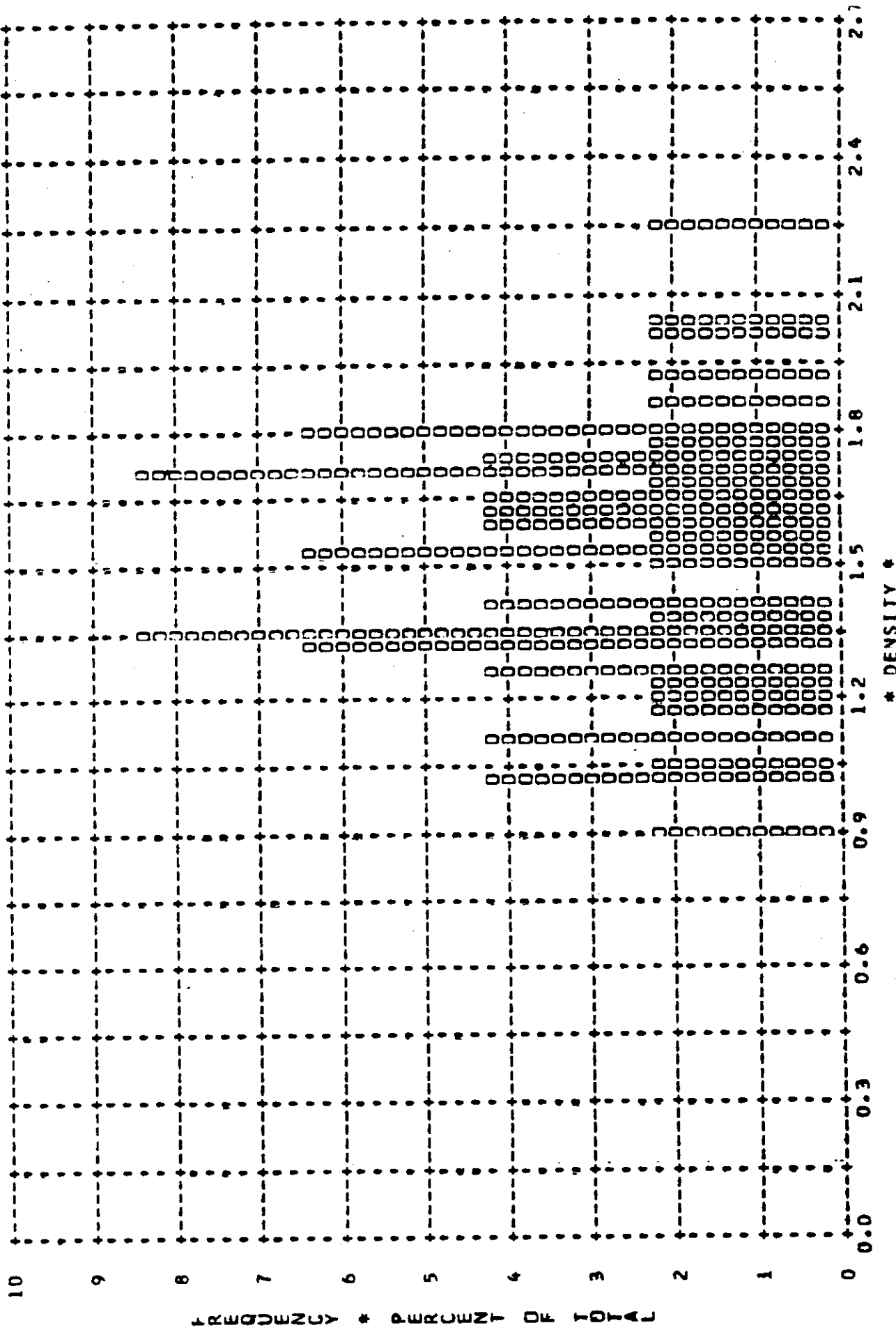
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 0.56 * MEDIAN * 0.50 * STD DEV * 0.23 * RANGE * 0.21 TO 1.24 WITH 48 SAMPLES



~~TOP SECRET~~

██████████ - CONTROL NO.

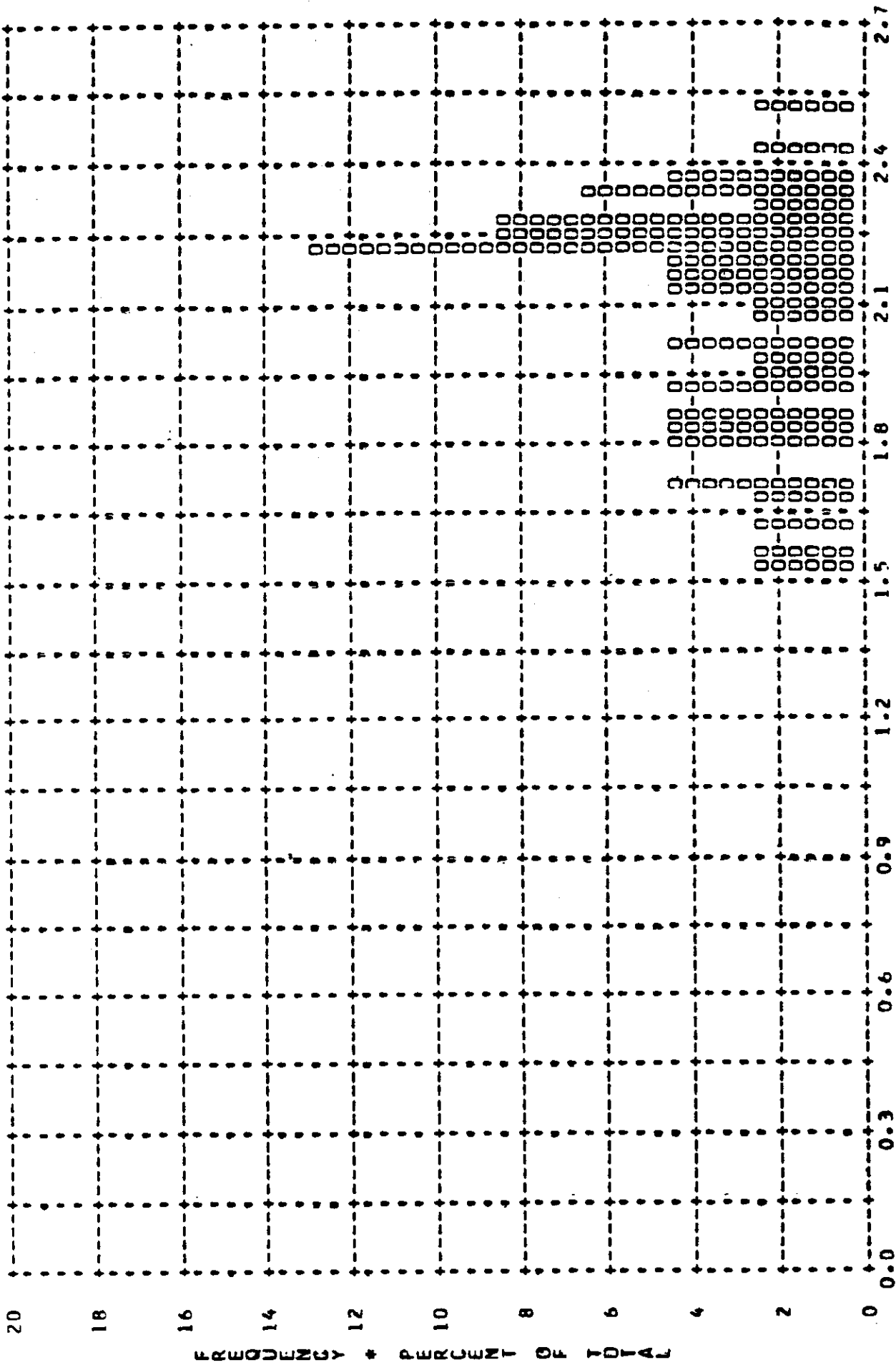
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 1.50 * MEDIAN * 1.53 * STD DEV * 0.30 * RANGE * 0.90 TO 2.24 WITH 48 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL

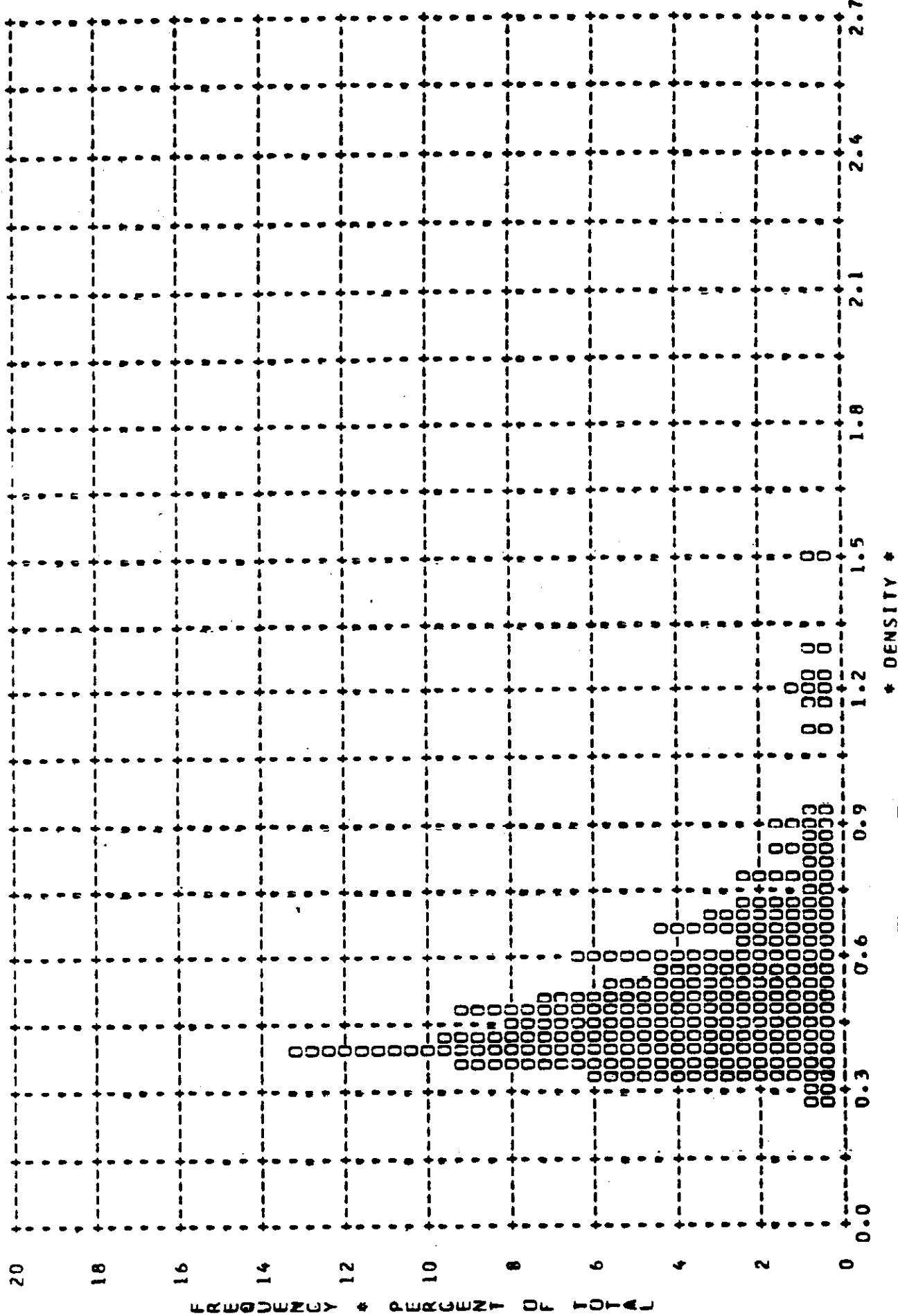
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * INTERMEDIATE
ARITH MEAN * 2.08 * MEDIAN * 2.18 * STD DEV * 0.24 * RANGE * 1.53 TO 2.50 WITH 48 SAMPLES



~~TOP SECRET~~

CONTROL NO.

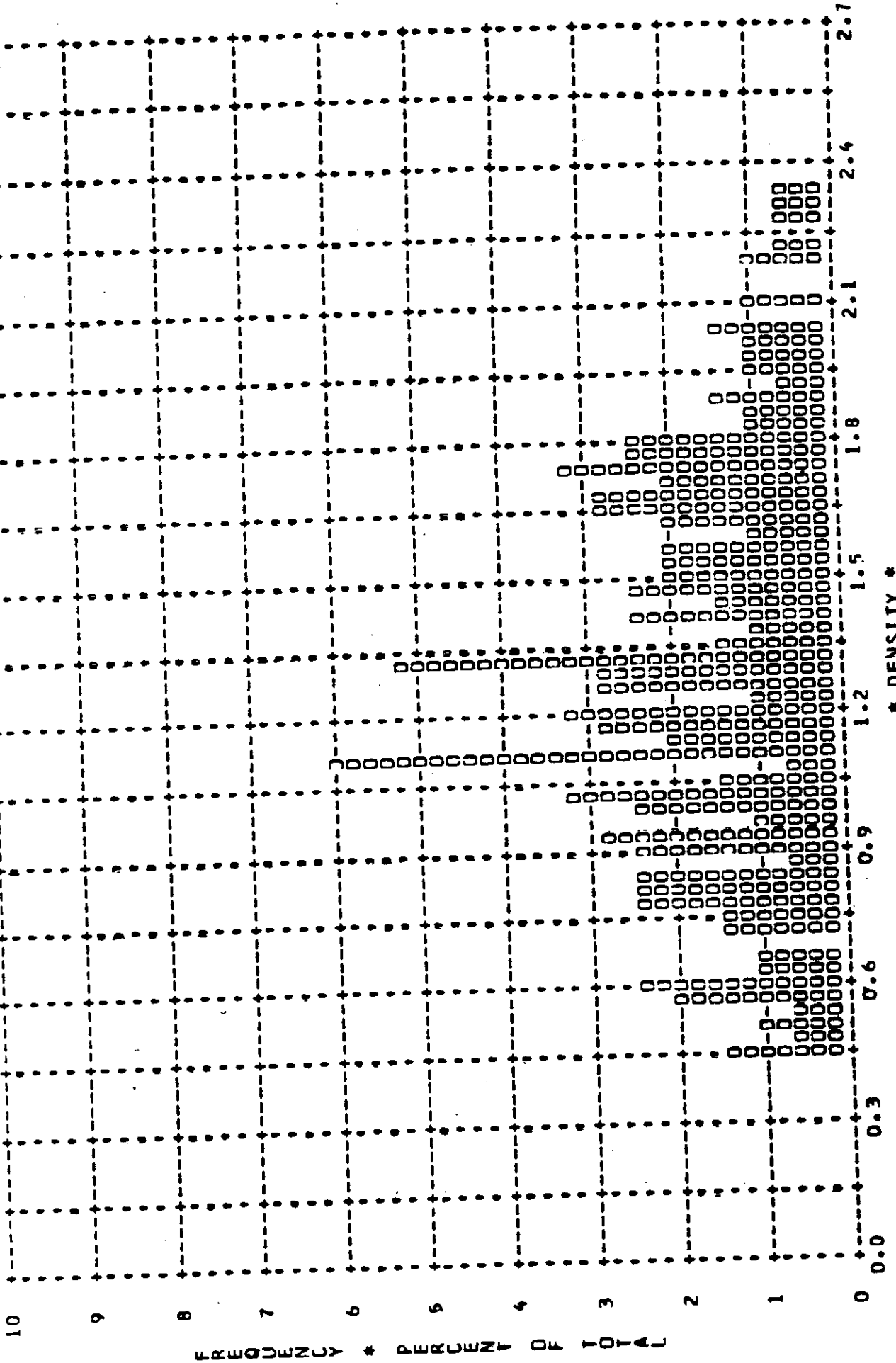
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * FULL
ARITH MEAN * 0.52 * MEDIAN * 0.46 * STD DEV * 0.19 * RANGE * 0.26 TO 1.50 WITH 220 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL NO.

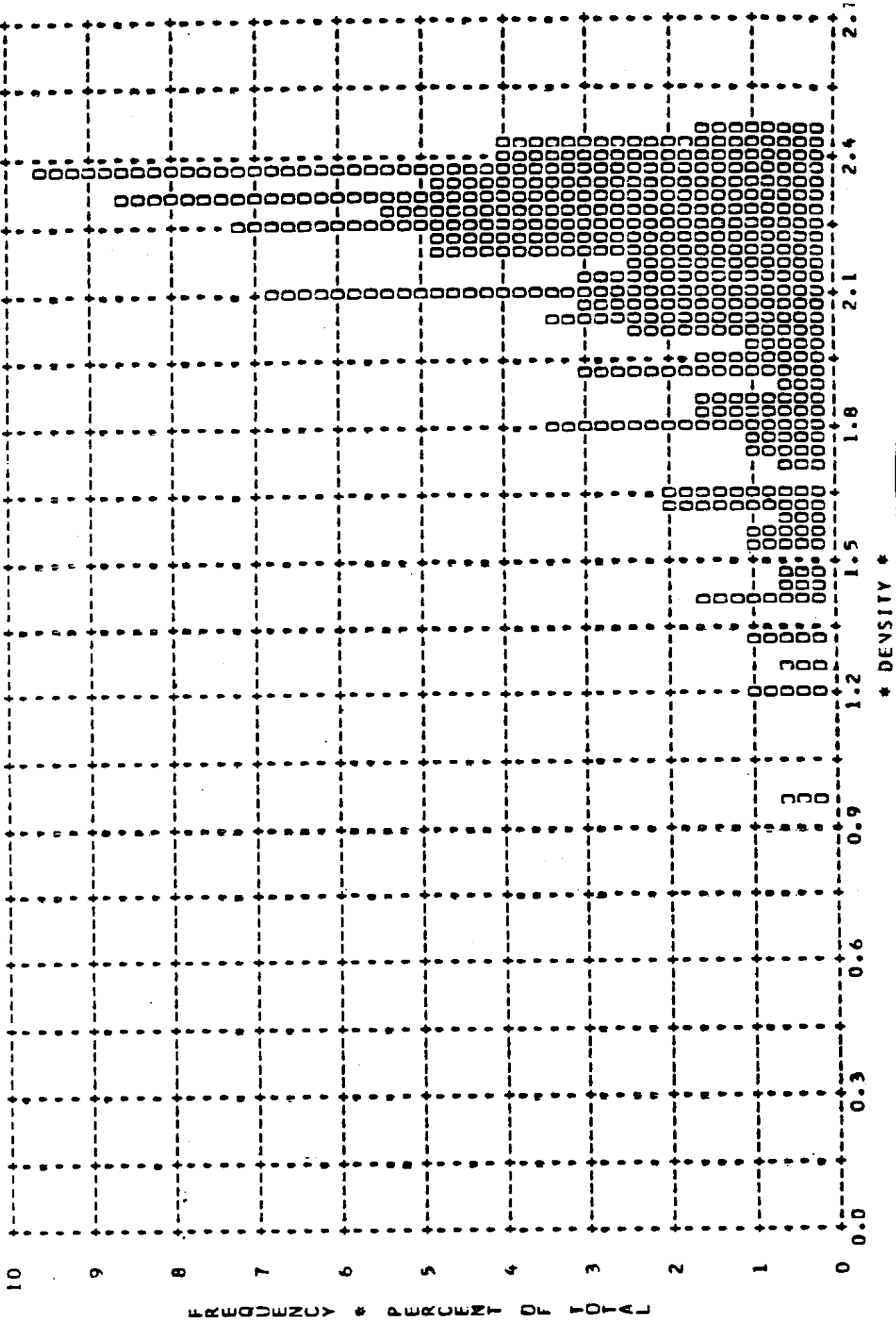
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLUT JF D MAX * TERRAIN * PROCESSING * FULL
ARITH MEAN * 1.28 * MEDIAN * 1.28 * STD DEV * 0.44 * RANGE * 0.43 TO 2.33 WITH 220 SAMPLES



TOP SECRET

CONTRL NO.

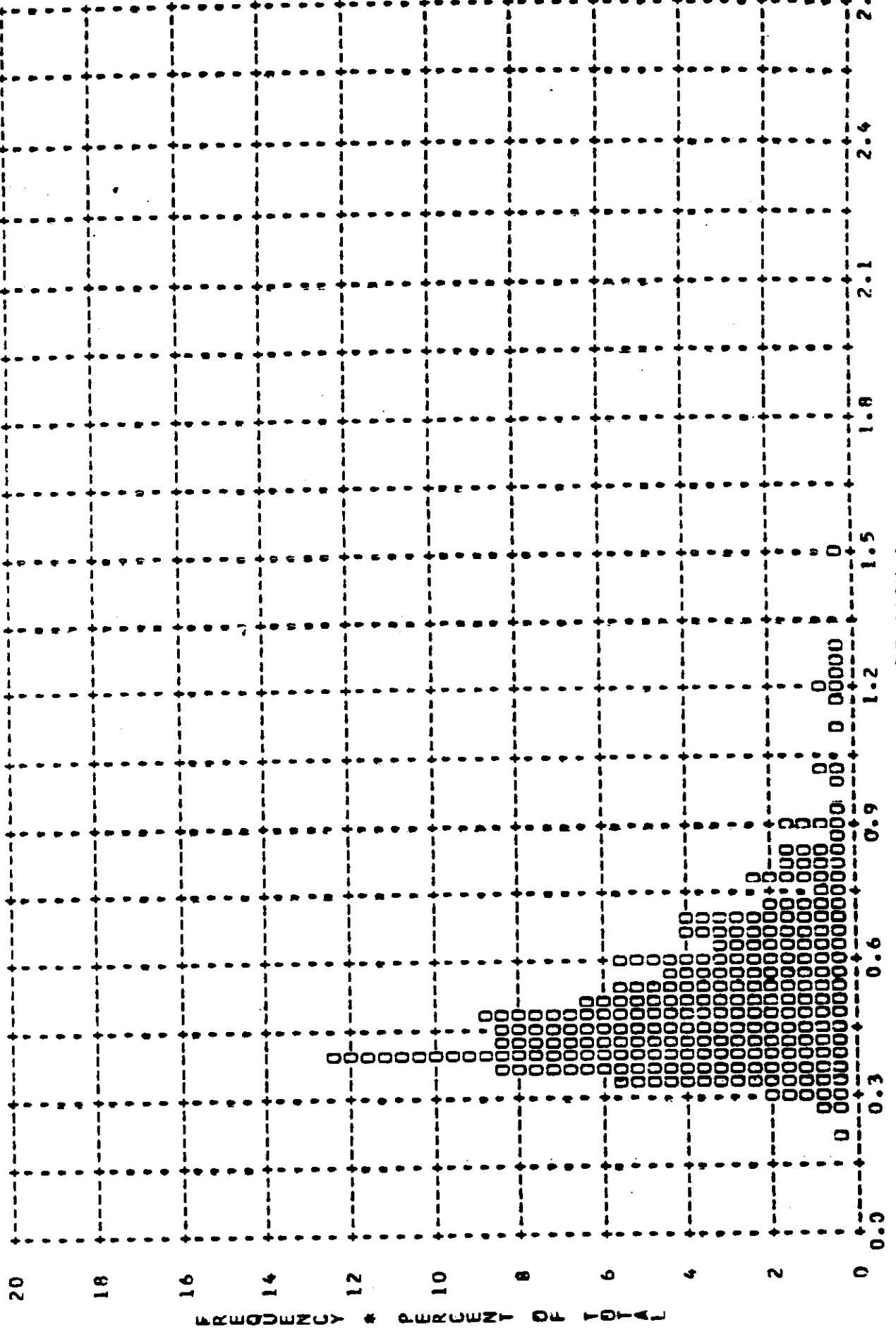
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLJT JF 0 MAX * CLOUD * PROCESSING * FULL
ARITH MEAN * 2.00 * MEDIAN * 2.18 * STD DEV * 0.27 * RANGE * 0.96 TO 2.45 WITH 210 SAMPLES



TOP SECRET

CONTROL NO.

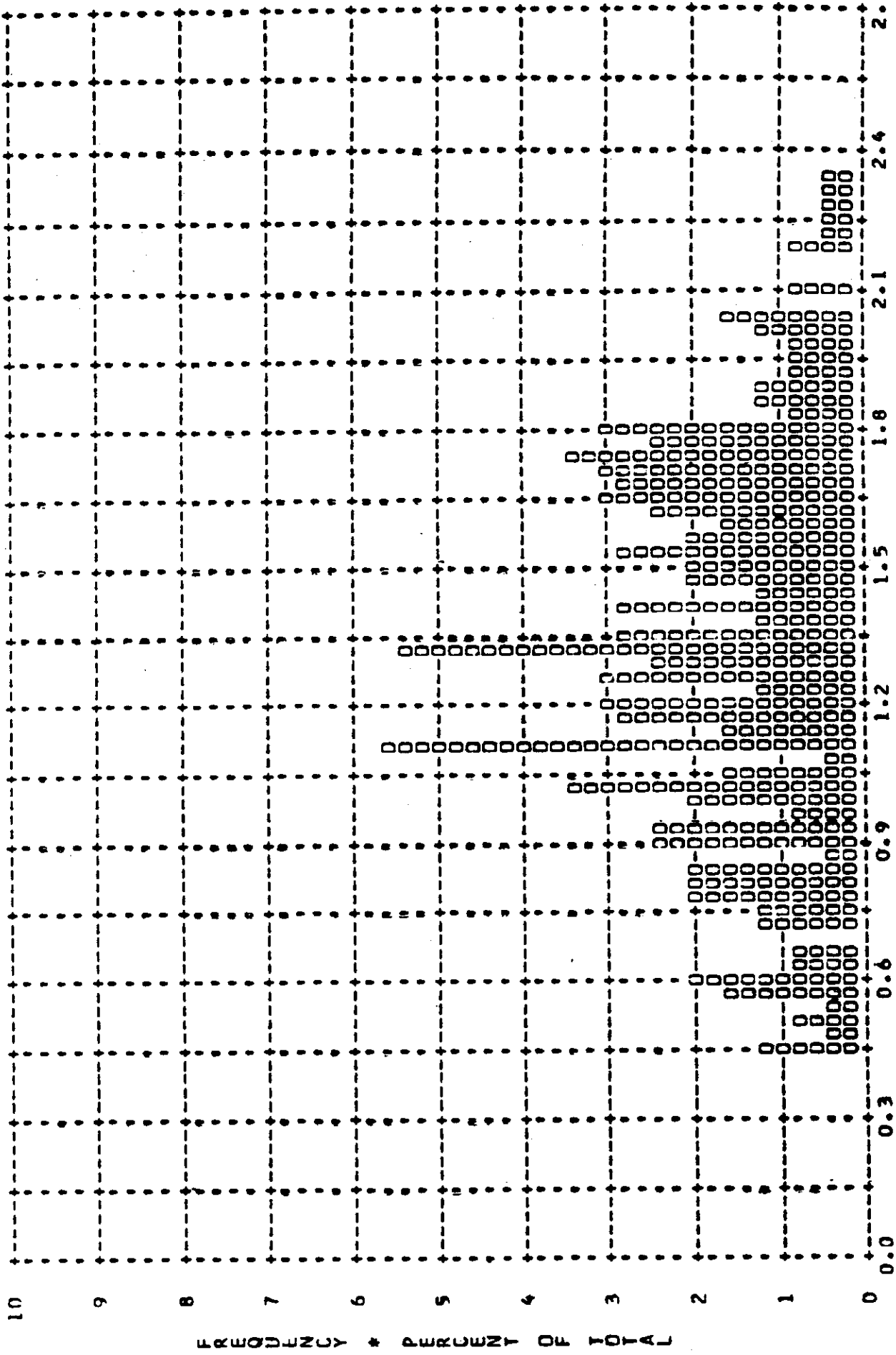
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF 0 MIN * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 0.52 * MEDIAN * 0.47 * STD DEV * 0.20 * RANGE * 0.21 TO 1.50 WITH 268 SAMPLES



TOP SECRET

CONFIDENTIAL

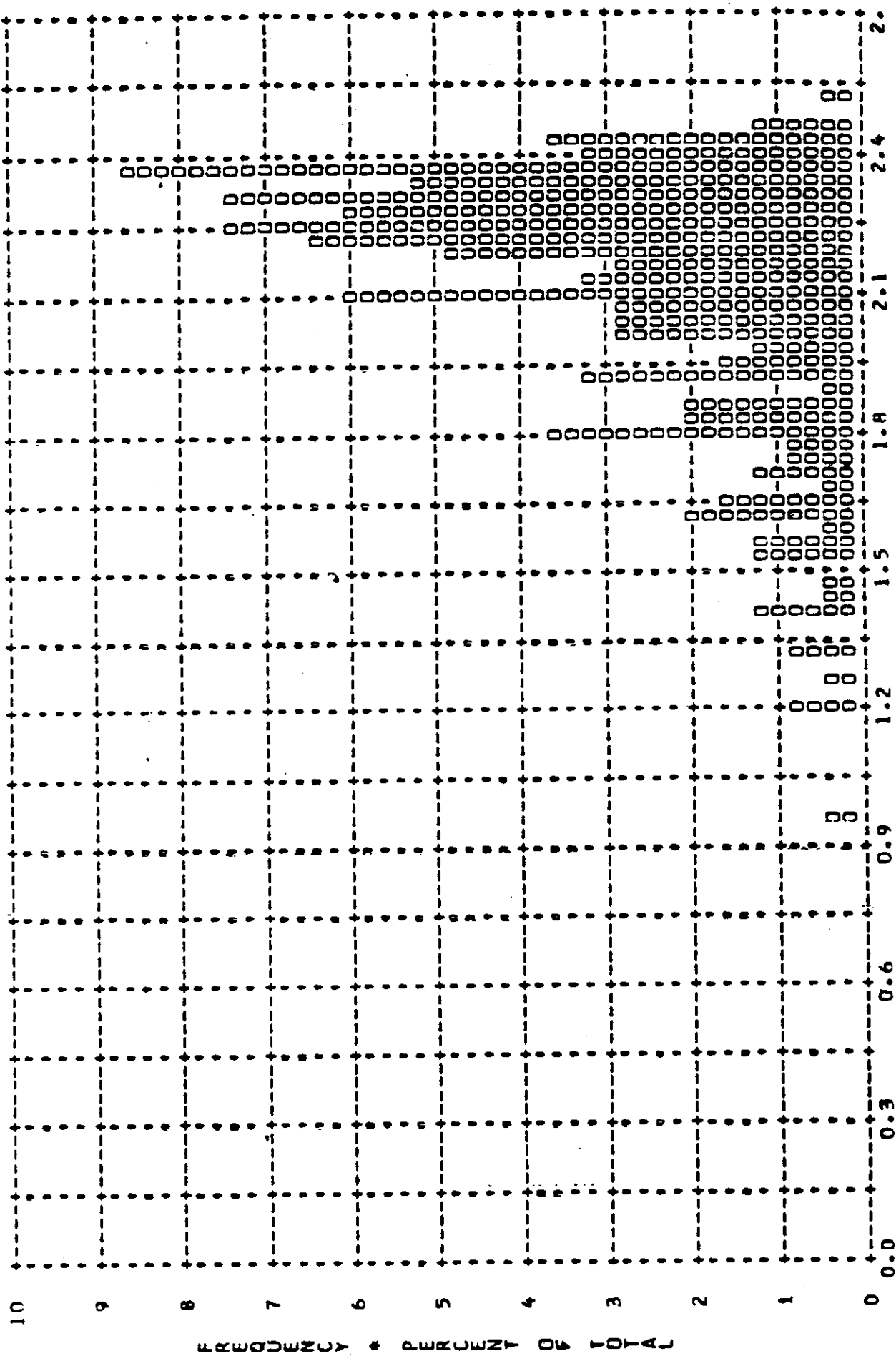
MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 1.32 * MEDIAN * 1.30 * STD DEV * 0.42 * RANGE * 0.43 TO 2.33 WITH 268 SAMPLES



TOP SECRET

CONTROL NO.

MISSION * 1035-2 * INSTR * FRWD * 11/28/66 PLOT OF D MAX * CLOUD * PROCESSING * ALL LEVELS
ARITH MEAN * 2.09 * MEDIAN * 2.18 * STD DEV * 0.29 * RANGE * 0.36 TO 2.50 WITH 258 SAMPLES



~~TOP SECRET~~

CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.01	0	0	0	0	0	0	0	0	0	0	0	0
0.02	0	0	0	0	0	0	0	0	0	0	0	0
0.03	0	0	0	0	0	0	0	0	0	0	0	0
0.04	0	0	0	0	0	0	0	0	0	0	0	0
0.05	0	0	0	0	0	0	0	0	0	0	0	0
0.06	0	0	0	0	0	0	0	0	0	0	0	0
0.07	0	0	0	0	0	0	0	0	0	0	0	0
0.08	0	0	0	0	0	0	0	0	0	0	0	0
0.09	0	0	0	0	0	0	0	0	0	0	0	0
0.10	0	0	0	0	0	0	0	0	0	0	0	0
0.11	0	0	0	0	0	0	0	0	0	0	0	0
0.12	0	0	0	0	0	0	0	0	0	0	0	0
0.13	0	0	0	0	0	0	0	0	0	0	0	0
0.14	0	0	0	0	0	0	0	0	0	0	0	0
0.15	0	0	0	0	0	0	0	0	0	0	0	0
0.16	0	0	0	0	0	0	0	0	0	0	0	0
0.17	0	0	0	0	0	0	0	0	0	0	0	0
0.18	0	0	0	0	0	0	0	0	0	0	0	0
0.19	0	0	0	0	0	0	0	0	0	0	0	0
0.20	0	0	0	0	0	0	0	0	0	0	0	0
0.21	0	0	0	0	0	0	0	0	0	0	0	0
0.22	0	0	0	0	0	0	0	0	0	0	0	0
0.23	0	0	0	0	0	0	0	0	0	0	0	0
0.24	0	0	0	0	0	0	0	0	0	0	0	0
0.25	0	0	0	0	0	0	0	0	0	0	0	0
0.26	0	0	0	0	0	0	0	0	0	0	0	0
0.27	0	0	0	0	0	0	0	0	0	0	0	0
0.28	0	0	0	0	0	0	0	0	0	0	0	0
0.29	0	0	0	0	0	0	0	0	0	0	0	0
0.30	0	0	0	0	0	0	0	0	0	0	0	0
0.31	0	0	0	0	0	0	0	0	0	0	0	0
0.32	0	0	0	0	0	0	0	0	0	0	0	0
0.33	0	0	0	0	0	0	0	0	0	0	0	0
0.34	0	0	0	0	0	0	0	0	0	0	0	0
0.35	0	0	0	0	0	0	0	0	0	0	0	0
0.36	0	0	0	0	0	0	0	0	0	0	0	0
0.37	0	0	0	0	0	0	0	0	0	0	0	0
0.38	0	0	0	0	0	0	0	0	0	0	0	0
0.39	0	0	0	0	0	0	0	0	0	0	0	0
0.40	0	0	0	0	0	0	0	0	0	0	0	0
0.41	0	0	0	0	0	0	0	0	0	0	0	0
0.42	0	0	0	0	0	0	0	0	0	0	0	0
0.43	0	0	0	0	0	0	0	0	0	0	0	0
0.44	0	0	0	0	0	0	0	0	0	0	0	0
0.45	0	0	0	0	0	0	0	0	0	0	0	0
0.46	0	0	0	0	0	0	0	0	0	0	0	0
0.47	0	0	0	0	0	0	0	0	0	0	0	0
0.48	0	0	0	0	0	0	0	0	0	0	0	0
0.49	0	0	0	0	0	0	0	0	0	0	0	0
0.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	19	0	0	108	1	0	127	1	0

~~TOP SECRET~~

CONTROL NO. [REDACTED]

Table A-4

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
0.51	0	0	0	1	0	0	11	0	0	12	0	0
0.52	0	0	0	1	0	0	8	0	0	9	0	0
0.53	0	0	0	1	0	0	5	0	0	6	0	0
0.54	0	0	0	1	0	0	10	0	0	11	0	0
0.55	0	0	0	0	0	0	6	0	0	6	0	0
0.56	0	0	0	1	0	0	6	0	0	6	0	0
0.57	0	0	0	1	0	0	3	0	0	3	0	0
0.58	0	0	0	0	0	0	3	0	0	5	0	0
0.59	0	0	0	1	0	0	3	0	0	4	0	0
0.60	0	0	0	0	0	0	3	0	0	5	0	0
0.61	0	0	0	0	0	0	3	0	0	5	0	0
0.62	0	0	0	0	0	0	5	0	0	5	0	0
0.63	0	0	0	1	0	0	4	0	0	5	0	0
0.64	0	0	0	0	0	0	3	0	0	3	0	0
0.65	0	0	0	0	0	0	3	0	0	3	0	0
0.66	0	0	0	0	0	0	3	0	0	3	0	0
0.67	0	0	0	0	0	0	3	0	0	3	0	0
0.68	0	0	0	0	0	0	1	0	0	1	0	0
0.69	0	0	0	0	0	0	1	0	0	1	0	0
0.70	0	0	0	0	0	0	4	0	0	4	0	0
0.71	0	0	0	0	0	0	1	0	0	1	0	0
0.72	0	0	0	0	0	0	1	0	0	1	0	0
0.73	0	0	0	0	0	0	1	0	0	1	0	0
0.74	0	0	0	0	0	0	2	0	0	2	0	0
0.75	0	0	0	0	0	0	2	0	0	2	0	0
0.76	0	0	0	0	0	0	1	0	0	1	0	0
0.77	0	0	0	1	0	0	2	0	0	2	0	0
0.78	0	0	0	2	0	0	2	0	0	4	0	0
0.79	0	0	0	0	0	0	2	0	0	2	0	0
0.80	0	0	0	1	0	0	1	0	0	2	0	0
0.81	0	0	0	0	0	0	0	0	0	2	0	0
0.82	0	0	0	0	0	0	0	0	0	0	0	0
0.83	0	0	0	0	0	0	0	0	0	0	0	0
0.84	0	0	0	0	0	0	0	0	0	0	0	0
0.85	0	0	0	0	0	0	0	0	0	0	0	0
0.86	0	0	0	0	0	0	0	0	0	0	0	0
0.87	0	0	0	0	0	0	1	0	0	1	0	0
0.88	0	0	0	0	0	0	1	0	0	1	0	0
0.89	0	0	0	0	0	0	1	0	0	1	0	0
0.90	0	0	0	0	0	0	3	0	0	0	0	0
0.91	0	0	0	1	0	0	5	0	0	1	0	0
0.92	0	0	0	0	0	0	5	0	0	5	0	0
0.93	0	0	0	1	0	0	0	0	0	1	0	0
0.94	0	0	0	1	0	0	2	0	0	1	0	0
0.95	0	0	0	0	0	0	3	0	0	3	0	0
0.96	0	0	0	1	0	0	3	0	0	3	0	0
0.97	0	0	0	1	0	0	3	0	0	3	0	0
0.98	0	0	0	0	0	0	2	0	0	0	0	0
0.99	0	0	0	0	0	0	1	0	0	1	0	0
1.00	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	14	3	0	117	52	1	131	55	1

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-4

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.01	0	0	0	0	0	0	0	1	0	0	0	0
1.02	0	0	0	0	0	0	0	0	0	0	0	0
1.03	0	0	0	0	0	0	0	0	0	0	0	0
1.04	0	0	0	0	0	0	0	0	0	0	0	0
1.05	0	0	0	0	0	0	0	0	0	0	0	0
1.06	0	0	0	0	0	0	0	0	0	0	0	0
1.07	0	0	0	0	0	0	0	0	0	0	0	0
1.08	0	0	0	0	0	0	0	0	0	0	0	0
1.09	0	0	0	0	0	0	0	0	0	0	0	0
1.10	0	0	0	0	0	0	0	0	0	0	0	0
1.11	0	0	0	0	0	0	0	0	0	0	0	0
1.12	0	0	0	0	0	0	0	0	0	0	0	0
1.13	0	0	0	0	0	0	0	0	0	0	0	0
1.14	0	0	0	0	0	0	0	0	0	0	0	0
1.15	0	0	0	0	0	0	0	0	0	0	0	0
1.16	0	0	0	0	0	0	0	0	0	0	0	0
1.17	0	0	0	0	0	0	0	0	0	0	0	0
1.18	0	0	0	0	0	0	0	0	0	0	0	0
1.19	0	0	0	0	0	0	0	0	0	0	0	0
1.20	0	0	0	0	0	0	0	0	0	0	0	0
1.21	0	0	0	0	0	0	0	0	0	0	0	0
1.22	0	0	0	0	0	0	0	0	0	0	0	0
1.23	0	0	0	0	0	0	0	0	0	0	0	0
1.24	0	0	0	0	0	0	0	0	0	0	0	0
1.25	0	0	0	0	0	0	0	0	0	0	0	0
1.26	0	0	0	0	0	0	0	0	0	0	0	0
1.27	0	0	0	0	0	0	0	0	0	0	0	0
1.28	0	0	0	0	0	0	0	0	0	0	0	0
1.29	0	0	0	0	0	0	0	0	0	0	0	0
1.30	0	0	0	0	0	0	0	0	0	0	0	0
1.31	0	0	0	0	0	0	0	0	0	0	0	0
1.32	0	0	0	0	0	0	0	0	0	0	0	0
1.33	0	0	0	0	0	0	0	0	0	0	0	0
1.34	0	0	0	0	0	0	0	0	0	0	0	0
1.35	0	0	0	0	0	0	0	0	0	0	0	0
1.36	0	0	0	0	0	0	0	0	0	0	0	0
1.37	0	0	0	0	0	0	0	0	0	0	0	0
1.38	0	0	0	0	0	0	0	0	0	0	0	0
1.39	0	0	0	0	0	0	0	0	0	0	0	0
1.40	0	0	0	0	0	0	0	0	0	0	0	0
1.41	0	0	0	0	0	0	0	0	0	0	0	0
1.42	0	0	0	0	0	0	0	0	0	0	0	0
1.43	0	0	0	0	0	0	0	0	0	0	0	0
1.44	0	0	0	0	0	0	0	0	0	0	0	0
1.45	0	0	0	0	0	0	0	0	0	0	0	0
1.46	0	0	0	0	0	0	0	0	0	0	0	0
1.47	0	0	0	0	0	0	0	0	0	0	0	0
1.48	0	0	0	0	0	0	0	0	0	0	0	0
1.49	0	0	0	0	0	0	0	0	0	0	0	0
1.50	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	13	1	6	106	10	6	119	11

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-4

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
1.51	0	0	0	0	0	0	0	1	1	0	0	1
1.52	0	0	0	0	0	0	0	1	1	0	0	1
1.53	0	0	0	0	0	0	0	0	0	0	0	0
1.54	0	0	0	0	0	0	0	0	0	0	0	0
1.55	0	0	0	0	0	0	0	0	0	0	0	0
1.56	0	0	0	0	0	0	0	0	0	0	0	0
1.57	0	0	0	0	0	0	0	0	0	0	0	0
1.58	0	0	0	0	0	0	0	0	0	0	0	0
1.59	0	0	0	0	0	0	0	0	0	0	0	0
1.60	0	0	0	0	0	0	0	0	0	0	0	0
1.61	0	0	0	0	0	0	0	0	0	0	0	0
1.62	0	0	0	0	0	0	0	0	0	0	0	0
1.63	0	0	0	0	0	0	0	0	0	0	0	0
1.64	0	0	0	0	0	0	0	0	0	0	0	0
1.65	0	0	0	0	0	0	0	0	0	0	0	0
1.66	0	0	0	0	0	0	0	0	0	0	0	0
1.67	0	0	0	0	0	0	0	0	0	0	0	0
1.68	0	0	0	0	0	0	0	0	0	0	0	0
1.69	0	0	0	0	0	0	0	0	0	0	0	0
1.70	0	0	0	0	0	0	0	0	0	0	0	0
1.71	0	0	0	0	0	0	0	0	0	0	0	0
1.72	0	0	0	0	0	0	0	0	0	0	0	0
1.73	0	0	0	0	0	0	0	0	0	0	0	0
1.74	0	0	0	0	0	0	0	0	0	0	0	0
1.75	0	0	0	0	0	0	0	0	0	0	0	0
1.76	0	0	0	0	0	0	0	0	0	0	0	0
1.77	0	0	0	0	0	0	0	0	0	0	0	0
1.78	0	0	0	0	0	0	0	0	0	0	0	0
1.79	0	0	0	0	0	0	0	0	0	0	0	0
1.80	0	0	0	0	0	0	0	0	0	0	0	0
1.81	0	0	0	0	0	0	0	0	0	0	0	0
1.82	0	0	0	0	0	0	0	0	0	0	0	0
1.83	0	0	0	0	0	0	0	0	0	0	0	0
1.84	0	0	0	0	0	0	0	0	0	0	0	0
1.85	0	0	0	0	0	0	0	0	0	0	0	0
1.86	0	0	0	0	0	0	0	0	0	0	0	0
1.87	0	0	0	0	0	0	0	0	0	0	0	0
1.88	0	0	0	0	0	0	0	0	0	0	0	0
1.89	0	0	0	0	0	0	0	0	0	0	0	0
1.90	0	0	0	0	0	0	0	0	0	0	0	0
1.91	0	0	0	0	0	0	0	0	0	0	0	0
1.92	0	0	0	0	0	0	0	0	0	0	0	0
1.93	0	0	0	0	0	0	0	0	0	0	0	0
1.94	0	0	0	0	0	0	0	0	0	0	0	0
1.95	0	0	0	0	0	0	0	0	0	0	0	0
1.96	0	0	0	0	0	0	0	0	0	0	0	0
1.97	0	0	0	0	0	0	0	0	0	0	0	0
1.98	0	0	0	0	0	0	0	0	0	0	0	0
1.99	0	0	0	0	0	0	0	0	0	0	0	0
2.00	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	14	14	0	63	52	0	77	66

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-4

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

MISSION * 1035-2 * INSTRUMENT * AFT 11/28/66 DENSITY FREQ DISTR

DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
2.01	0	0	0	0	0	0	0	0	1	0	0	1
2.02	0	0	0	0	0	0	0	0	1	0	0	1
2.03	0	0	0	0	0	0	0	0	1	0	0	1
2.04	0	0	0	0	0	0	0	0	1	0	0	1
2.05	0	0	0	0	0	0	0	0	1	0	0	1
2.06	0	0	0	0	0	0	0	0	1	0	0	1
2.07	0	0	0	0	0	0	0	0	1	0	0	1
2.08	0	0	0	0	0	0	0	0	1	0	0	1
2.09	0	0	0	0	0	0	0	0	1	0	0	1
2.10	0	0	0	0	0	0	0	0	1	0	0	1
2.11	0	0	0	0	0	0	0	0	1	0	0	1
2.12	0	0	0	0	0	0	0	0	1	0	0	1
2.13	0	0	0	0	0	0	0	0	1	0	0	1
2.14	0	0	0	0	0	0	0	0	1	0	0	1
2.15	0	0	0	0	0	0	0	0	1	0	0	1
2.16	0	0	0	0	0	0	0	0	1	0	0	1
2.17	0	0	0	0	0	0	0	0	1	0	0	1
2.18	0	0	0	0	0	0	0	0	1	0	0	1
2.19	0	0	0	0	0	0	0	0	1	0	0	1
2.20	0	0	0	0	0	0	0	0	1	0	0	1
2.21	0	0	0	0	0	0	0	0	1	0	0	1
2.22	0	0	0	0	0	0	0	0	1	0	0	1
2.23	0	0	0	0	0	0	0	0	1	0	0	1
2.24	0	0	0	0	0	0	0	0	1	0	0	1
2.25	0	0	0	0	0	0	0	0	1	0	0	1
2.26	0	0	0	0	0	0	0	0	1	0	0	1
2.27	0	0	0	0	0	0	0	0	1	0	0	1
2.28	0	0	0	0	0	0	0	0	1	0	0	1
2.29	0	0	0	0	0	0	0	0	1	0	0	1
2.30	0	0	0	0	0	0	0	0	1	0	0	1
2.31	0	0	0	0	0	0	0	0	1	0	0	1
2.32	0	0	0	0	0	0	0	0	1	0	0	1
2.33	0	0	0	0	0	0	0	0	1	0	0	1
2.34	0	0	0	0	0	0	0	0	1	0	0	1
2.35	0	0	0	0	0	0	0	0	1	0	0	1
2.36	0	0	0	0	0	0	0	0	1	0	0	1
2.37	0	0	0	0	0	0	0	0	1	0	0	1
2.38	0	0	0	0	0	0	0	0	1	0	0	1
2.39	0	0	0	0	0	0	0	0	1	0	0	1
2.40	0	0	0	0	0	0	0	0	1	0	0	1
2.41	0	0	0	0	0	0	0	0	1	0	0	1
2.42	0	0	0	0	0	0	0	0	1	0	0	1
2.43	0	0	0	0	0	0	0	0	1	0	0	1
2.44	0	0	0	0	0	0	0	0	1	0	0	1
2.45	0	0	0	0	0	0	0	0	1	0	0	1
2.46	0	0	0	0	0	0	0	0	1	0	0	1
2.47	0	0	0	0	0	0	0	0	1	0	0	1
2.48	0	0	0	0	0	0	0	0	1	0	0	1
2.49	0	0	0	0	0	0	0	0	1	0	0	1
2.50	0	0	0	0	0	0	0	0	1	0	0	1
SUBTOTAL	0	0	0	0	0	0	0	0	165	0	12	184

~~TOP SECRET~~

- CONTROL NO. [REDACTED]

Table A-4

MISSION # 1045-2 * INSTRUMENT * AFT 11/26/66 DENSITY FREQ DISTR

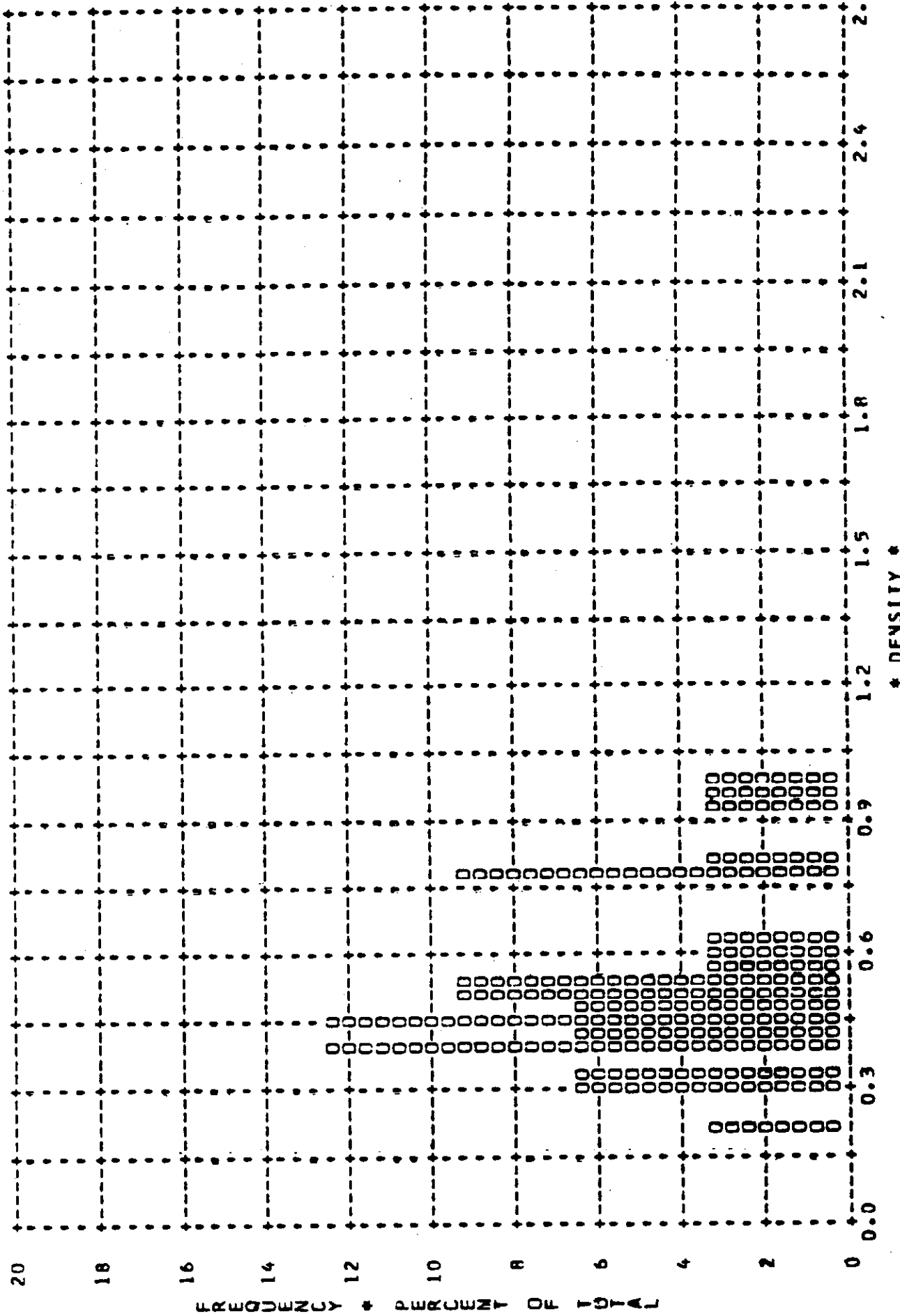
DENSITY VALUE	PRIMARY			INTERMEDIATE			FULL			ALL LEVELS		
	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM	MIN	MAX	LIM
2.51	0	0	0	0	0	0	0	0	0	0	0	0
2.52	0	0	0	0	0	0	0	0	0	0	0	0
2.53	0	0	0	0	0	0	0	0	0	0	0	0
2.54	0	0	0	0	0	0	0	0	0	0	0	0
2.55	0	0	0	0	0	0	0	0	0	0	0	0
2.56	0	0	0	0	0	0	0	0	0	0	0	0
2.57	0	0	0	0	0	0	0	0	0	0	0	0
2.58	0	0	0	0	0	0	0	0	0	0	0	0
2.59	0	0	0	0	0	0	0	0	0	0	0	0
2.60	0	0	0	0	0	0	0	0	0	0	0	0
2.61	0	0	0	0	0	0	0	0	0	0	0	0
2.62	0	0	0	0	0	0	0	0	0	0	0	0
2.63	0	0	0	0	0	0	0	0	0	0	0	0
2.64	0	0	0	0	0	0	0	0	0	0	0	0
2.65	0	0	0	0	0	0	0	0	0	0	0	0
2.66	0	0	0	0	0	0	0	0	0	0	0	0
2.67	0	0	0	0	0	0	0	0	0	0	0	0
2.68	0	0	0	0	0	0	0	0	0	0	0	0
2.69	0	0	0	0	0	0	0	0	0	0	0	0
2.70	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	33	31	34	231	231	229	254	264	263

A-6

~~TOP SECRET~~

██████████ - CONTROL NO.

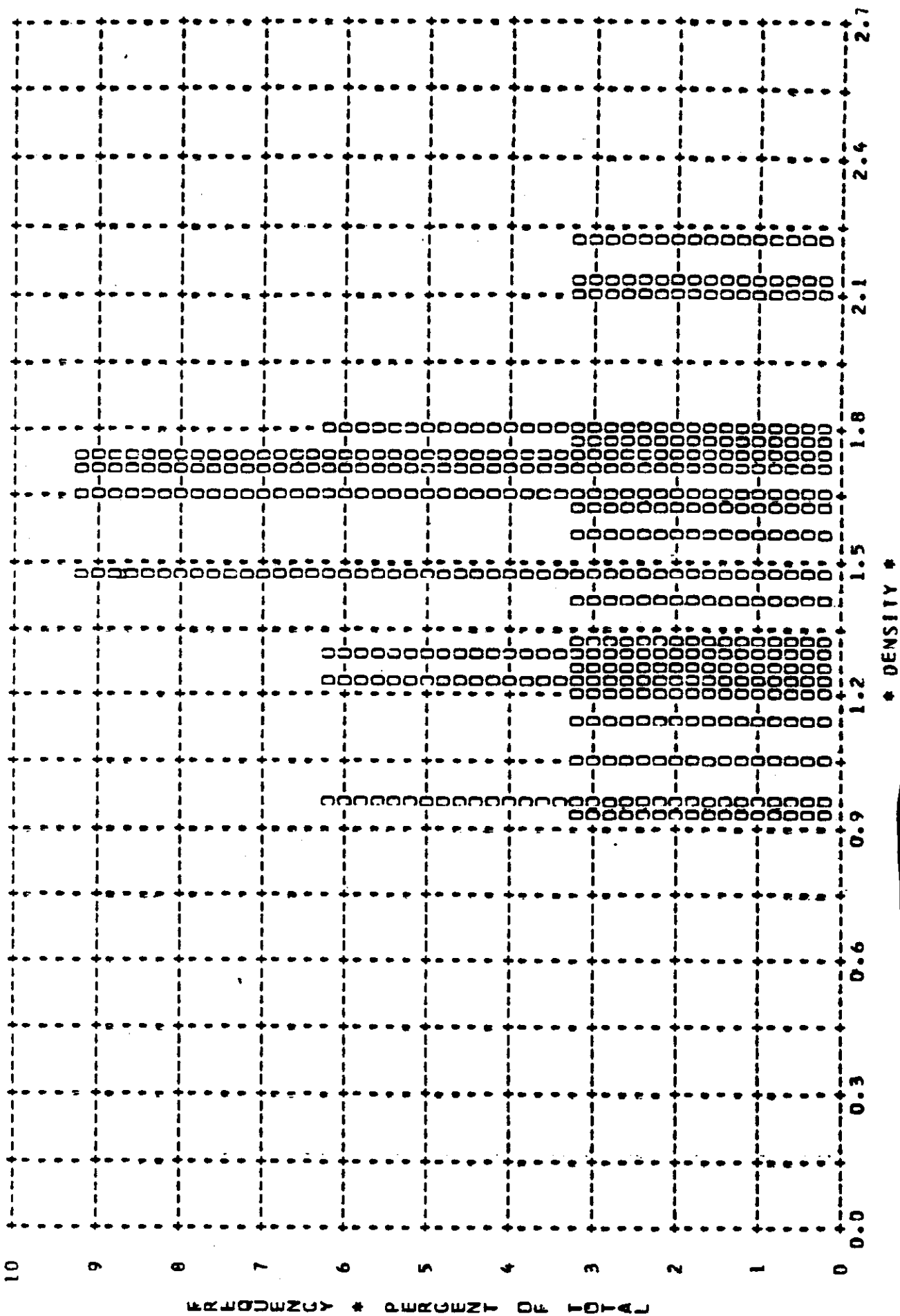
MISSION * 1035-2 * INSTR * AFI * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 0.52 * MEDIAN * 0.48 * STD DEV * 0.20 * RANGE * 0.21 TO 0.97 WITH 33 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL

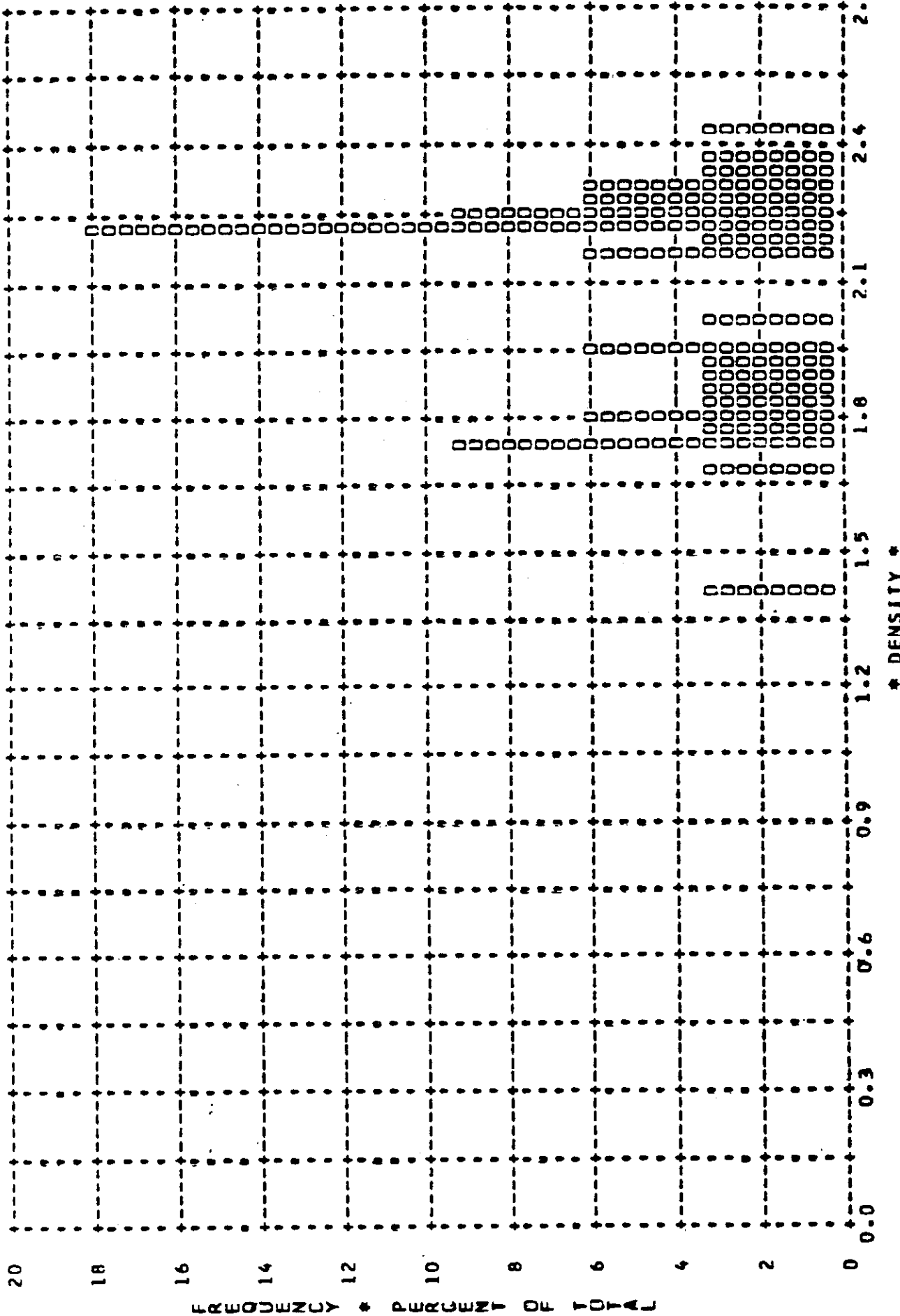
MISSION * 1035-2 * INSTR * AFF * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * INTERMEDIATE
ARITH MEAN * 1.50 * MEDIAN * 1.55 * STD DEV * 0.33 * RANGE * 0.92 TO 2.20 WITH 33 SAMPLES



~~TOP SECRET~~

CONFIDENTIAL NO.

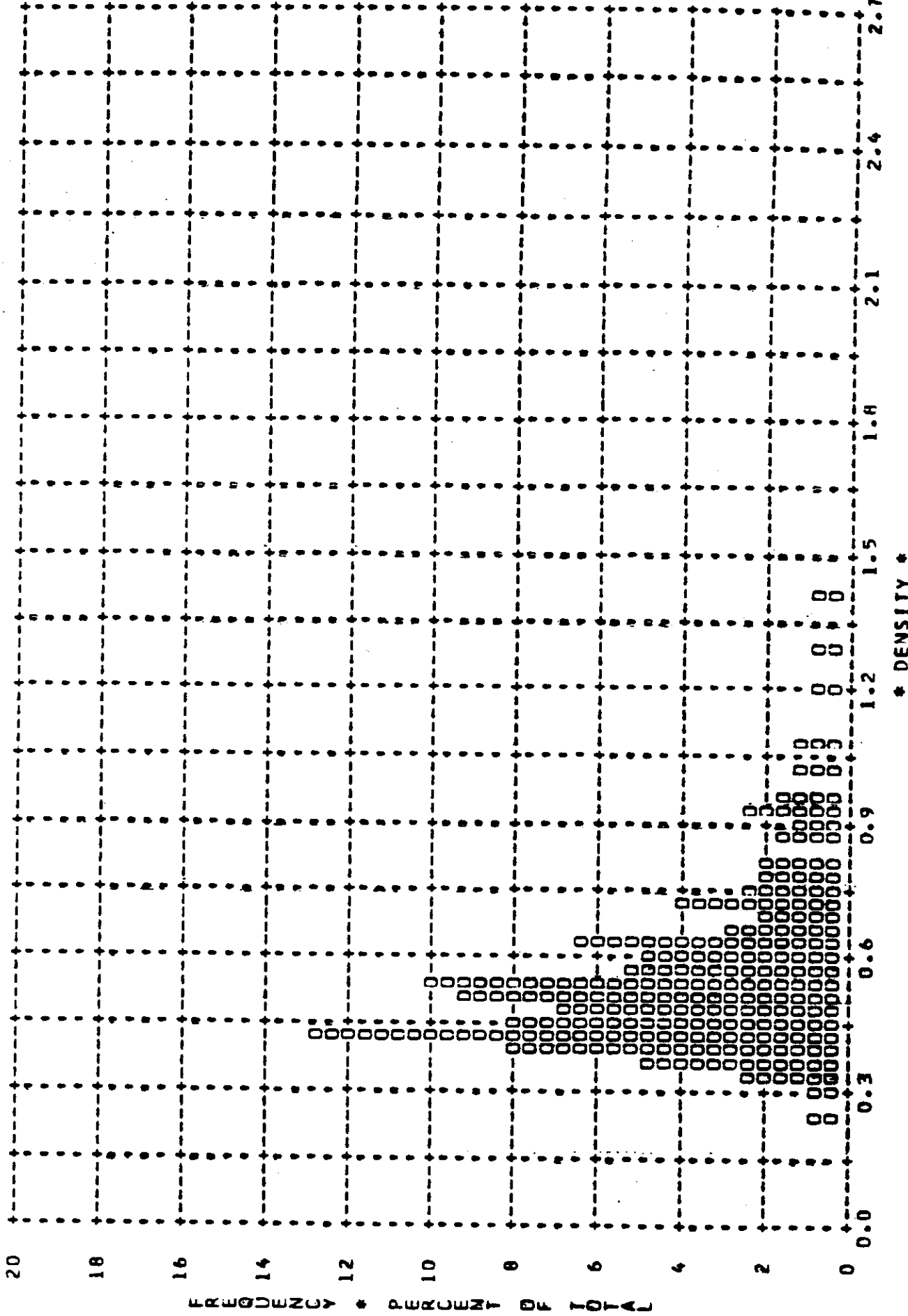
MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLDT OF J MAX * CLOUD * PROCESSING * INTERMEDIATE
ARITH MEAN * 2.05 * MEDIAN * 2.18 * STD DEV * 0.25 * RANGE * 1.40 TO 2.41 WITH 34 SAMPLES



~~TOP SECRET~~

CONTROL NO.

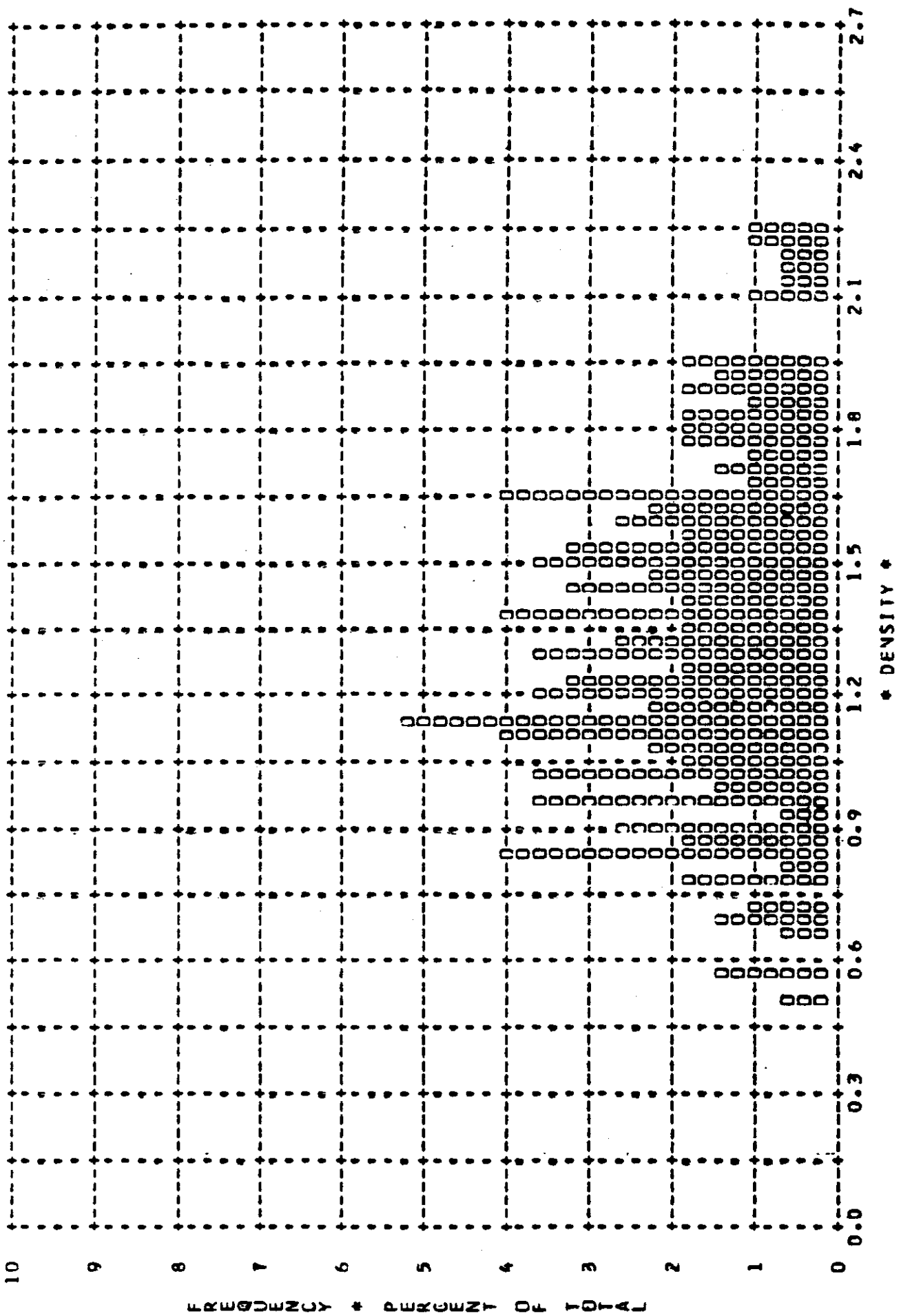
MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * FULL
ARITH MEAN * 0.55 * MEDIAN * 0.51 * STD DEV * 0.18 * RANGE * 0.24 TO 1.39 WITH 231 SAMPLES



TOP SECRET

[REDACTED] - CUMULATIVE NU.

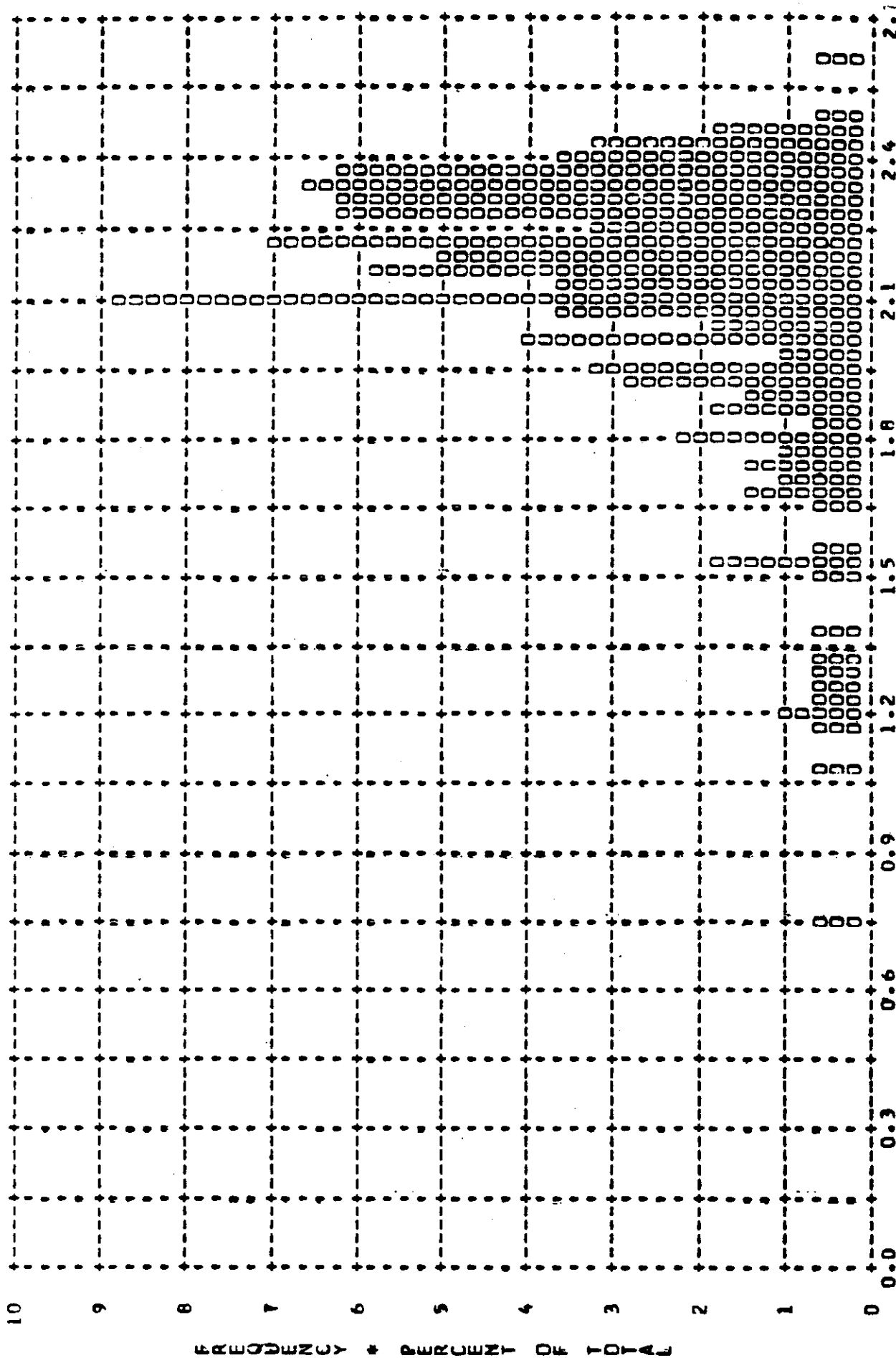
MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * FULL
ARITH MEAN * 1.37 * MEDIAN * 1.29 * STD DEV * 0.37 * RANGE * 0.50 TO 2.25 WITH 231 SAMPLES



TOP SECRET

CONFIDENTIAL NO.

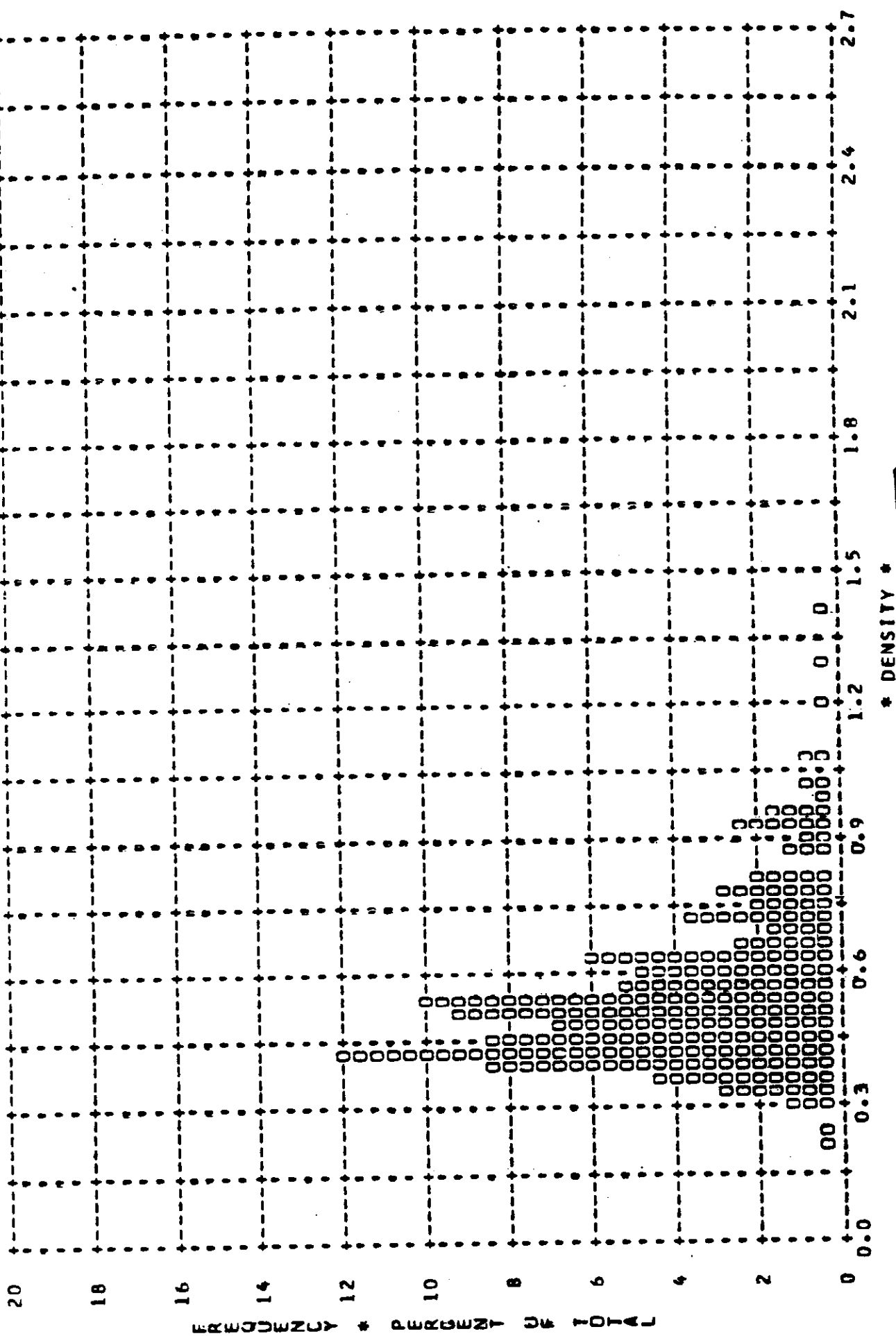
MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLUT OF D MAX * CLOUD * PROCESSING * FULL
ARITH MEAN * 2.10 * MEDIAN * 2.16 * STD DEV * 0.29 * RANGE * 0.74 TO 2.60 WITH 229 SAMPLES



TOP SECRET

COVIRJL NO.

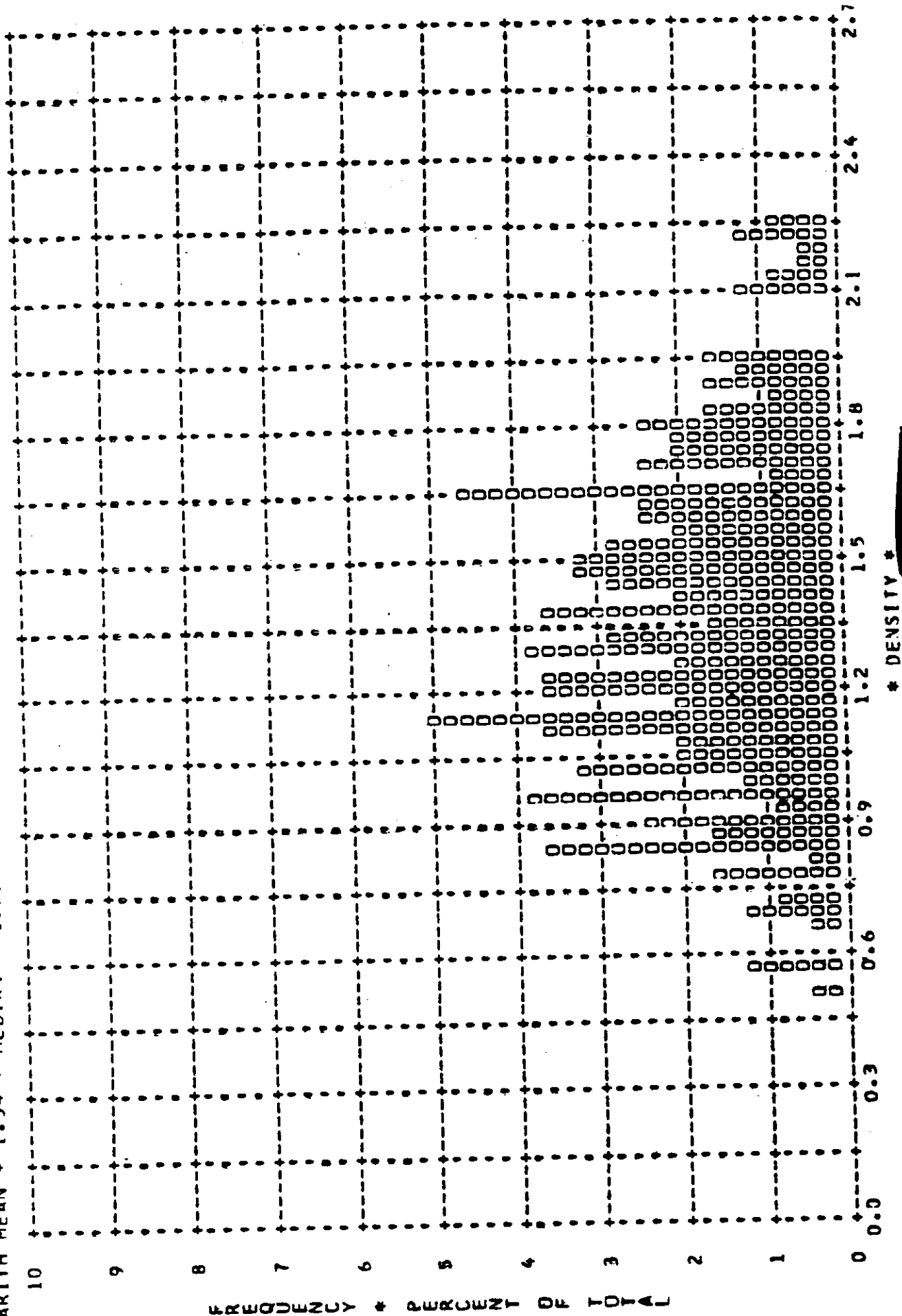
MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLOT OF D MIN * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 0.55 * MEDIAN * 0.51 * STD DEV * 0.18 * RANGE * 0.71 TO 1.39 WITH 254 SAMPLES



~~TOP SECRET~~

██████████ COVIKUL NO. ██████████

MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLOT OF D MAX * TERRAIN * PROCESSING * ALL LEVELS
ARITH MEAN * 1.34 * MEDIAN * 1.30 * STD DEV * 0.37 * RANGE * 0.50 TO 2.25 WITH 264 SAMPLES



* DENSITY *

~~TOP SECRET~~

- CONTROL NO.

MISSION * 1035-2 * INSTR * AFT * 11/28/66 PLJT OF D MAX * CLOUD * PROCESSING * ALL LEVELS
ARITH MEAN * 2.09 * MEDIAN * 2.16 * STD DEV * 0.29 * RANGE * 0.74 TO 2.60 WITH 263 SAMPLES

