

MAPA DE REGIONALIZAÇÃO AMBIENTAL

SUDOESTE DE GOIÁS

MRH - 357 e 360



UNIDADES AMBIENTAIS

- 1 - Grandes chapadões
- 2 - Pediplano goiano
- 3 - Depressão interplanáltica Rio Verde - Rio Verdão / dos Bois
- 4 - Planalto dissecado serra da Mombuca / serra do Cafezal

PERFIL TOPOGRÁFICO E DE USO DA TERRA

A-A' / B-B' / C-C' / D-D' / Posicionamento

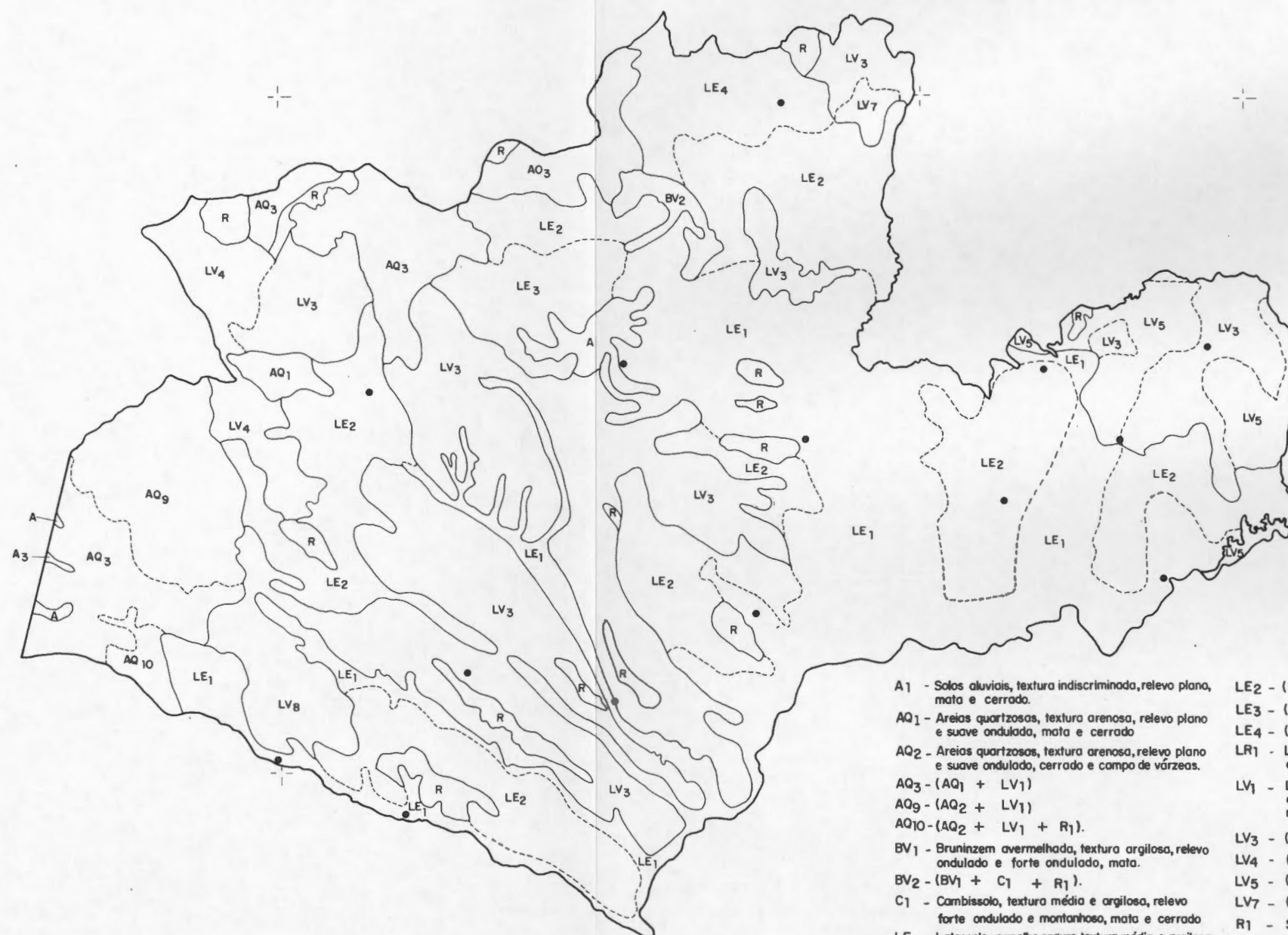
ESCALA



MAPA DE SOLOS E ASSOCIAÇÕES

SUDOESTE DE GOIÁS

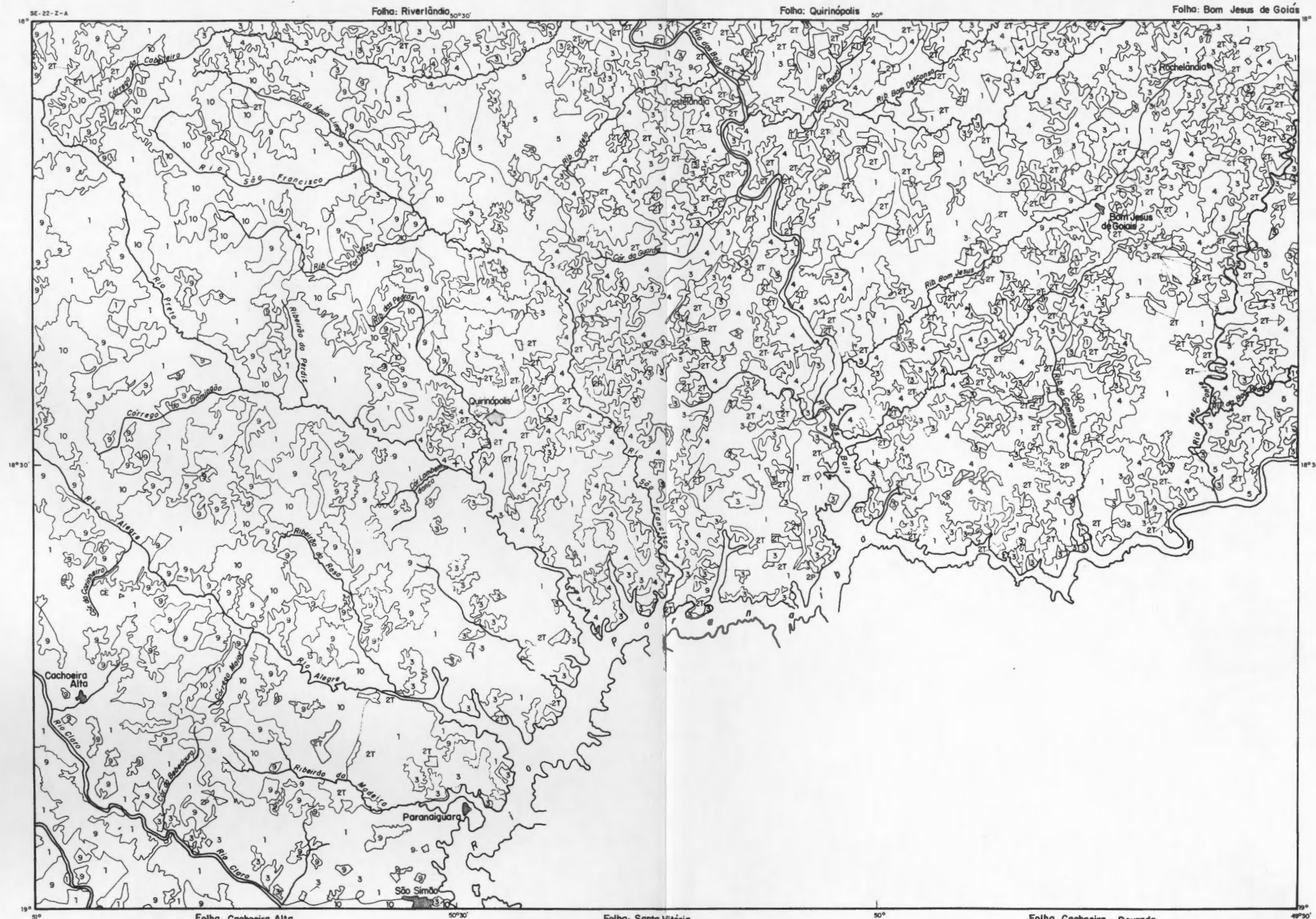
MRH - 357 e 360



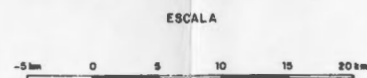
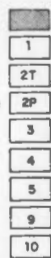
- A1 - Solos aluviais, textura indiscriminada, relevo plano, mata e cerrado.
- AQ1 - Areias quartzosas, textura arenosa, relevo plano e suave ondulado, mata e cerrado.
- AQ2 - Areias quartzosas, textura arenosa, relevo plano e suave ondulado, cerrado e campo de várzeas.
- AQ3 - (AQ1 + LV1)
- AQ9 - (AQ2 + LV1)
- AQ10 - (AQ2 + LV1 + R1).
- BV1 - Brunizem avermelhada, textura argilosa, relevo ondulado e forte ondulado, mata.
- BV2 - (BV1 + C1 + R1).
- C1 - Cambissolo, textura média e argilosa, relevo forte ondulado e montanhoso, mata e cerrado.
- LE1 - Latossolo vermelho escuro, textura média e argilosa, relevo plano e suave ondulado, mata e cerrado.
- LE2 - (LE1 + LR1)
- LE3 - (LE1 + LV1)
- LE4 - (LE1 + LV1 + AQ2)
- LR1 - Latossolo roxo, textura argilosa, relevo plano e suave ondulado, mata e cerrado.
- LV1 - Latossolo vermelho amarelo, textura média e argilosa, relevo plano e suave ondulado, mata e cerrado.
- LV3 - (LV1 + LE1)
- LV4 - (LV1 + AQ2)
- LV5 - (LV1 + R1)
- LV7 - (LV1 + BV1 + C1).
- R1 - Solos litólicos, textura indiscriminada, relevo forte ondulado e montanhoso, cerrado e mata.

OBS.: No mapa, as linhas pontilhadas referem-se aos limites entre associações pertencentes a uma mesma classe de solo.

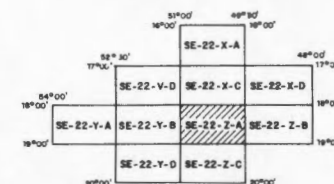
MAPA DE USO DA TERRA



- Área urbana
- Pecuária
- Lavoura temporária
- Lavoura permanente
- Floresta
- Floresta modificada
- Floresta com pecuária
- Cerrado
- Cerrado com pecuária



ARTICULAÇÃO DA FOLHA

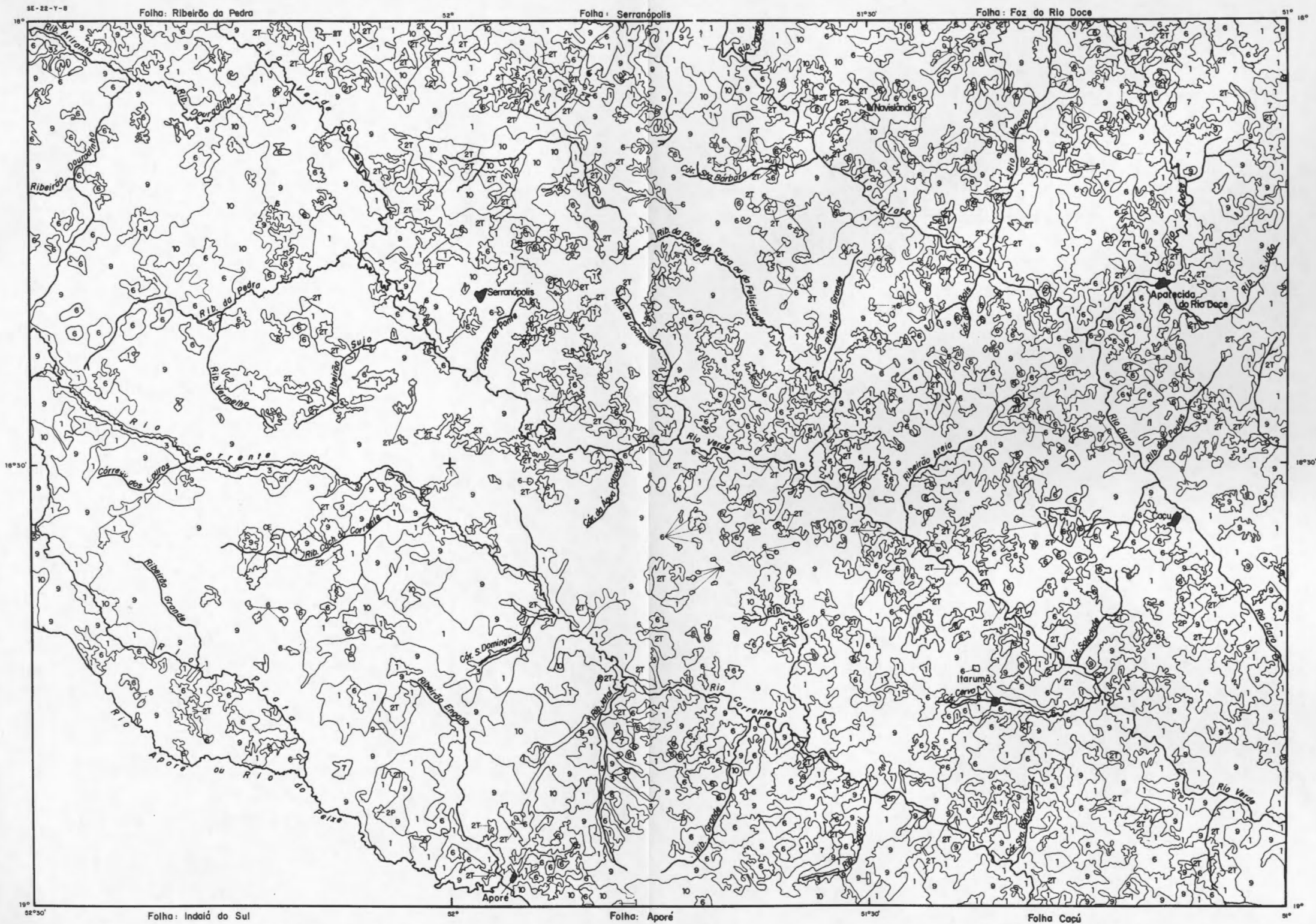


Autores: JOÃO BATISTA DA SILVA PEREIRA
PAULO ROBERTO HEREDIA DE FIGUEIREDO
Colaboração: MIGUEL MAURÍCIO KASSAB

Projeto Cerrado II - Conselho FIDUCIÁRIO - EMBRAPA

Mapa elaborado por interpretação visual de imagens de satélite LANDSAT, canais 5 e 7, escala 1:250.000, data original: 4 e 1977, foto cor escala 1:1000.000, com controle de r. topo em julho de 1979.

MAPA DE USO DA TERRA



Área urbana		Cerrado	
Pecuária		Cerrado modificado	
Lavoura temporária		Cerrado com pecuária	
Lavoura permanente		Cerrado	
Floresta		Cerrado íntegro com pecuária	

ESCALA

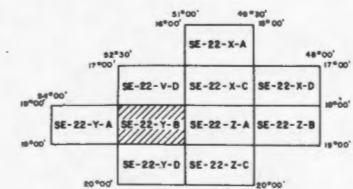


Mapa elaborado por interpretação visual de imagens de satélite LANDSAT, canais 5 e 7, escala 1:250.000, ano agrícola de 1977, feita com escala 1:1.000.000, com controle de campo em julho de 1979.

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Coloração: MIGUEL MAURICIO KASSAB

Projeto Cerrado II - Conselho IBGE - EMBRAPA

ARTICULAÇÃO DA FOLHA



MAPA DE USO DA TERRA



Área urbana		Floresta com pecuária	5
Pecuária	1	Cerradão	6
Lavoura temporária	2T	Cerradão modificado	7
Lavoura permanente	2P	Cerradão com pecuária	8
Floresta	3	Cerrado	9
Floresta modificada	4	Cerrado com pecuária	10

Autores: JOÃO BATISTA DA SILVA PEREIRA
PAULO ROBERTO MENEZES DE FIGUEIREDO
Colaboração: MIGUEL MAURÍCIO KASSAB

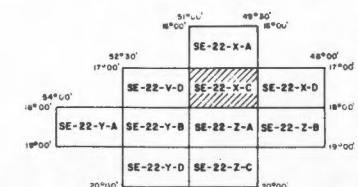
ESCALA



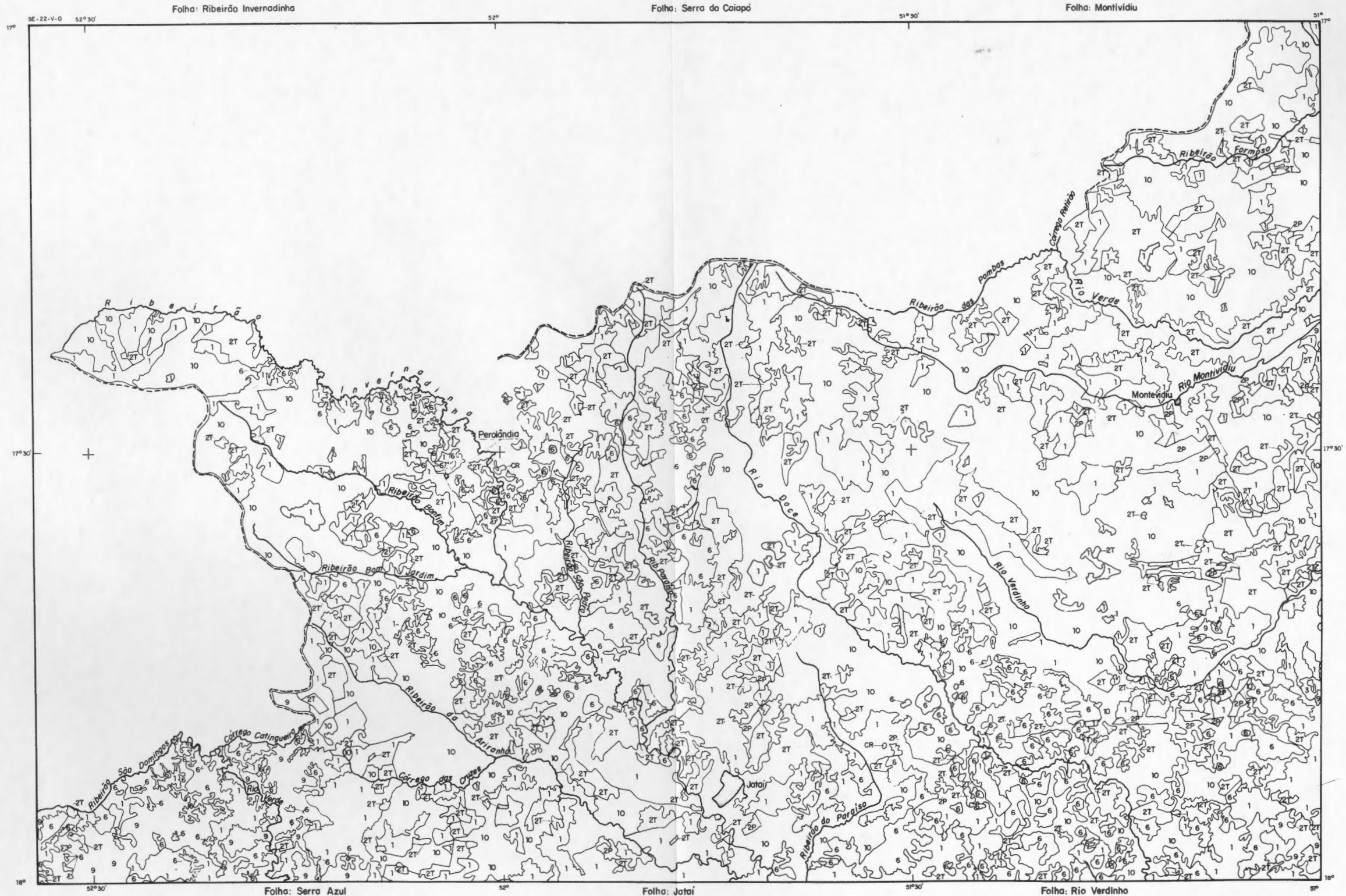
Mapa elaborado por interpretação visual de imagens de satélite LANDSAT, canais 5 e 7, escala 1:250 000, ano agrícola de 1977, folha cor escala 1:1000 000, com controle de campo em julho de 1978.

Projeto Cerrado II - Convênio FIBGE - EMBRAPA

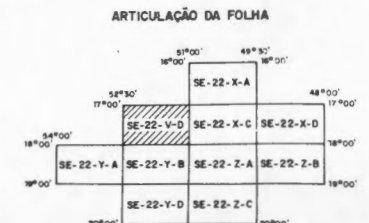
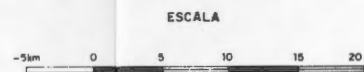
ARTICULAÇÃO DA FOLHA



MAPA DE USO DA TERRA



Área urbana		Cerrado	6
Pecuária	1	Cerrado modificado	7
Lavoura Temporária	2T	Cerrado com pecuária	8
Lavoura Permanente	2P	Cerrado	9
		Cerrado com pecuária	10

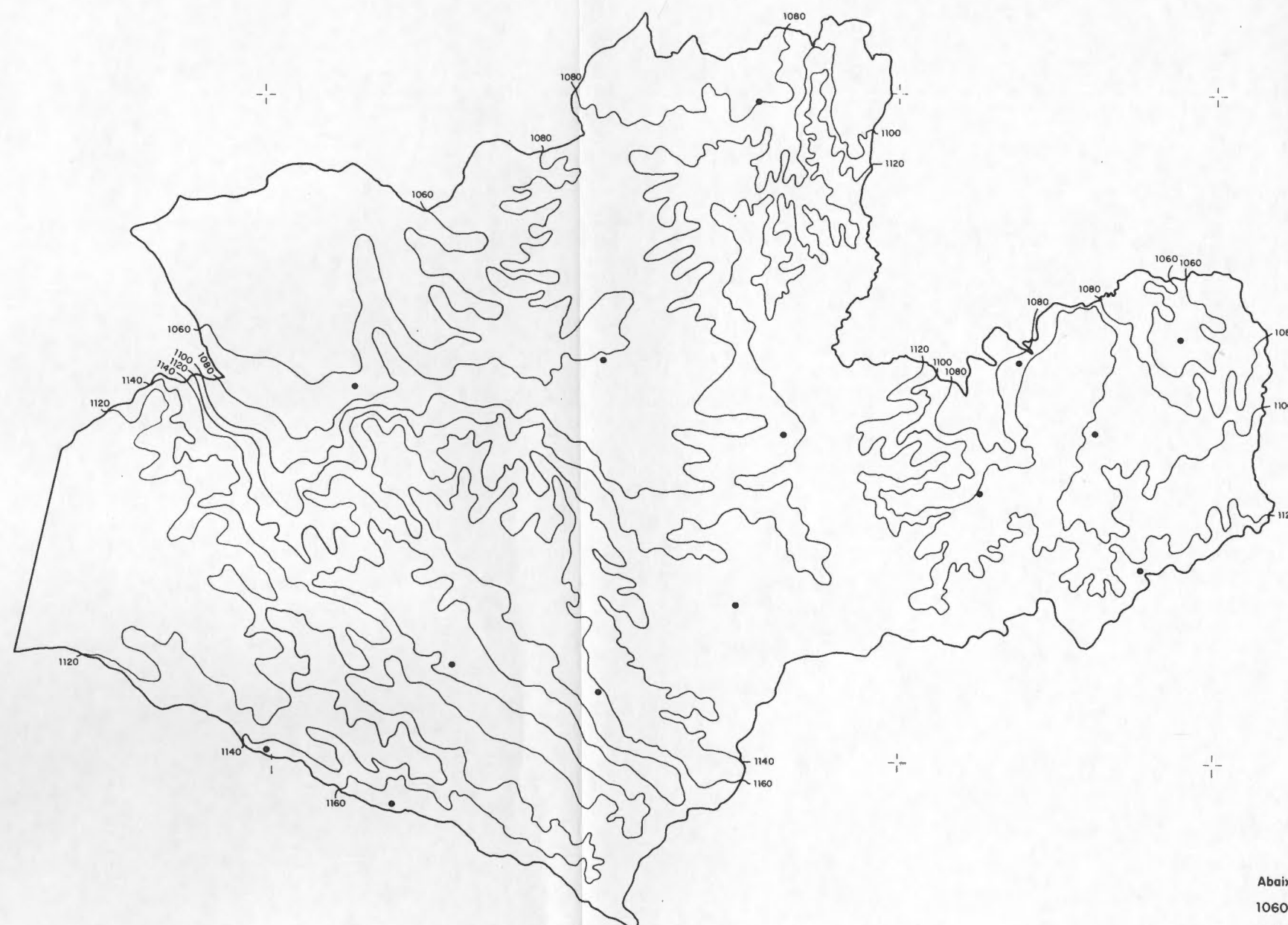


Mapa elaborado por interpretação visual de imagens de satélite LANDSAT, contendo 5 e 7 canais, escala 1:250.000, em agosto de 1977, folha cor escala 1:100.000, com controle de campo em julho de 1979.

EVAPOTRANSPIRAÇÃO POTENCIAL - MÉDIA ANUAL

SUDOESTE DE GOIÁS

MRH - 357 e 360



Abaixo de 1060
1060 — 1080
1080 — 1100
1100 — 1120
1120 — 1140
1140 — 1160
Acima de 1160

ESCALA

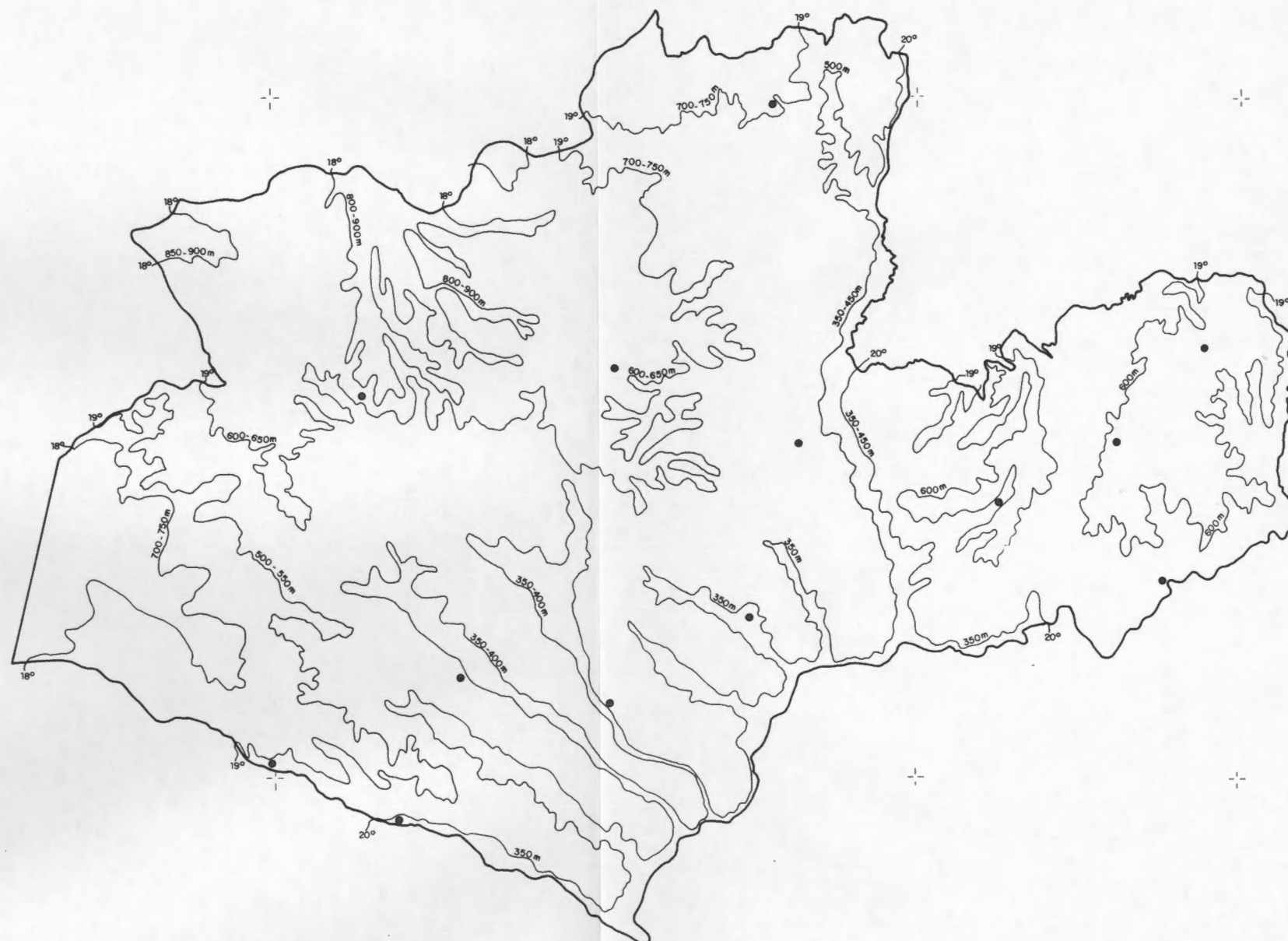


Convênio - IBGE / EMBRAPA - 1979
Autor: ALBERTINA O. VARGAS

TEMPERATURA MÉDIA DE JULHO (°C)
MÊS MAIS FRIO

SUDOESTE DE GOIÁS

MRH - 357 e 360



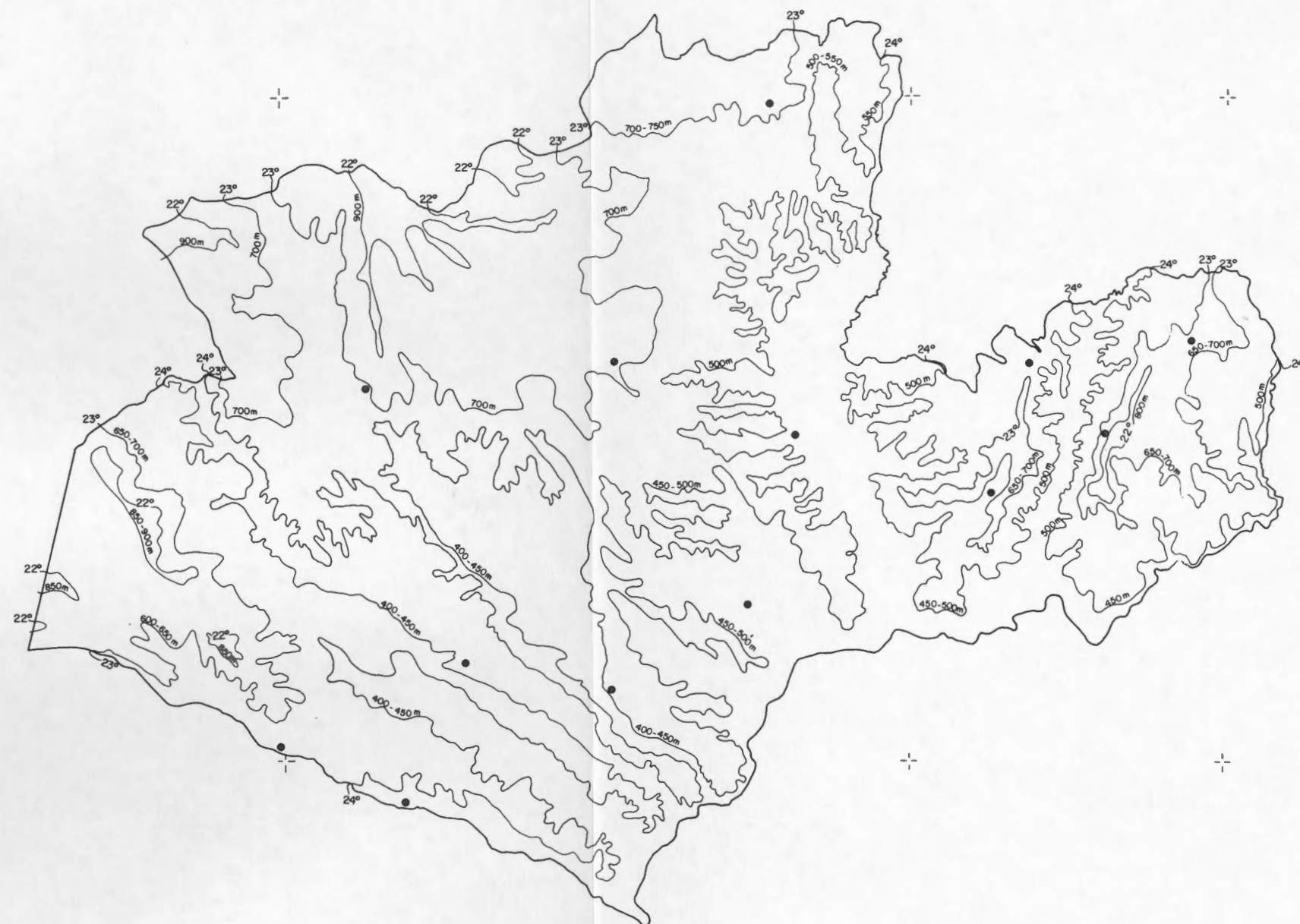
Convênio - IBGE / EMBRAPA - 1979
Autor: ALBERTINA D. VARGAS

ESCALA
10 0 10 20 30 40 50 km

Abaixo de 18°
18° — 19°
19° — 20°
20° — 21°

TEMPERATURA MÉDIA DE OUTUBRO (°C)
MÊS MAIS QUENTE

SUDOESTE DE GOIÁS
MRH - 357 e 360



Convênio - IBGE/EMBRAPA - 1979
Autor: ALBERTINA O. VARGAS

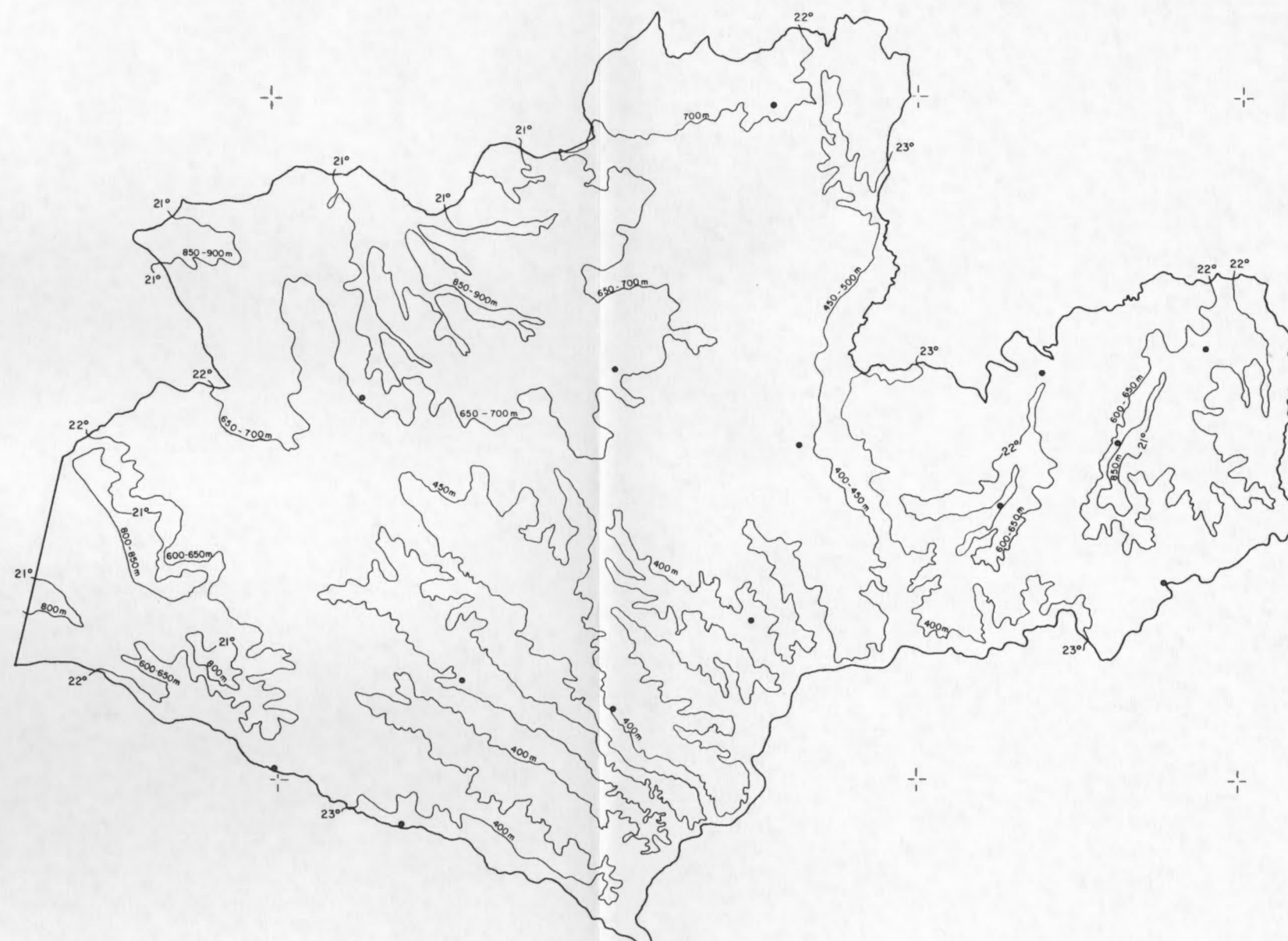
ESCALA
10 0 10 20 30 40 50 km

21° — 22°
22° — 23°
23° — 24°
Acima de 24°

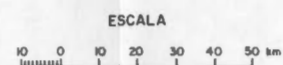
TEMPERATURA MÉDIA ANUAL (°C)

SUDOESTE DE GOIÁS

MRH - 357 e 360



Convênio - IBGE/EMBRAPA - 1979
Autor: ALBERTINA O. VARGAS

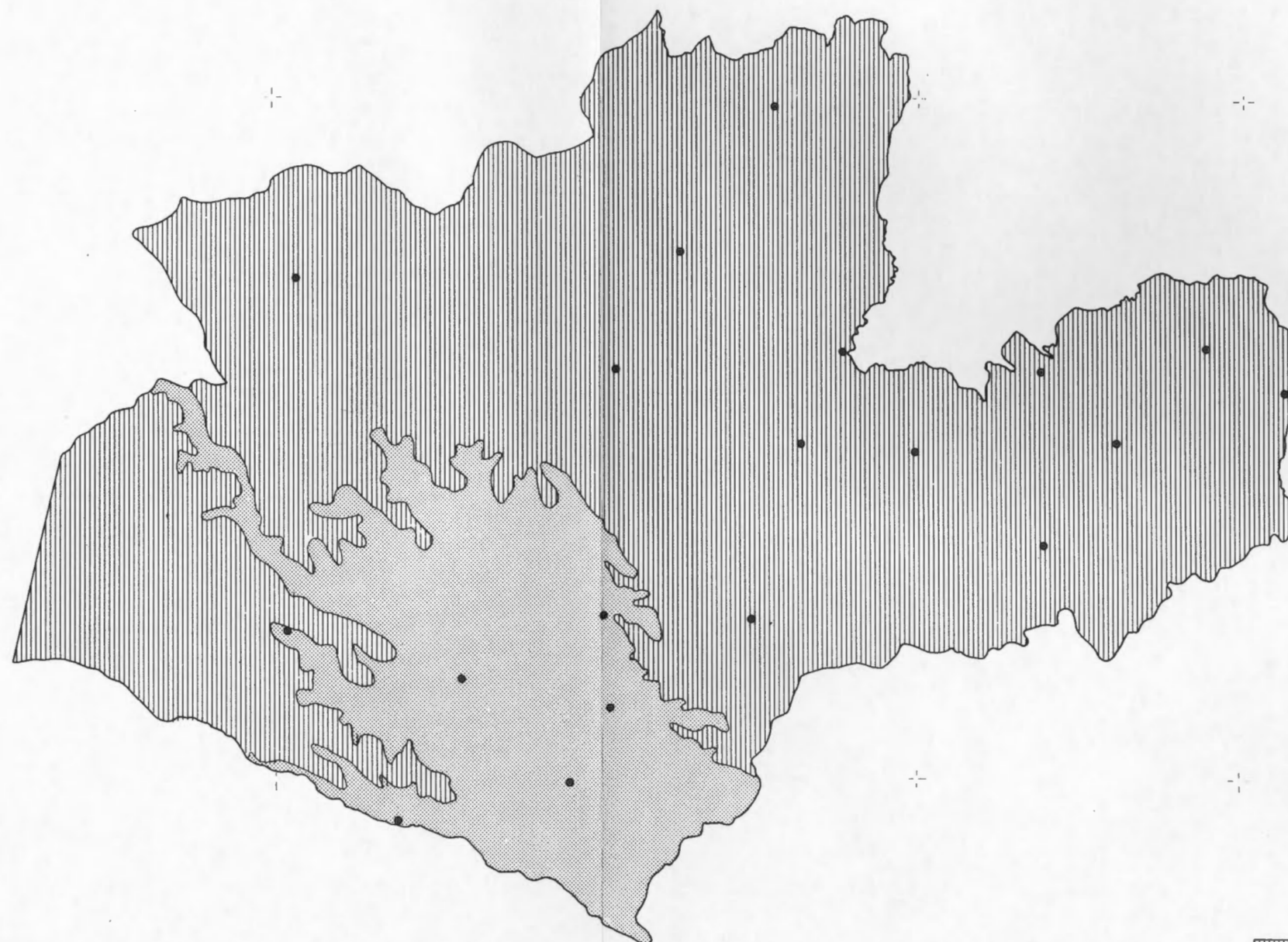


20° — 21°
21° — 22°
22° — 23°
23° — 24°

TIPOLOGIA CLIMÁTICA-EFICIÊNCIA TÉRMICA

SUDOESTE DE GOIÁS

MRH - 357 E 360



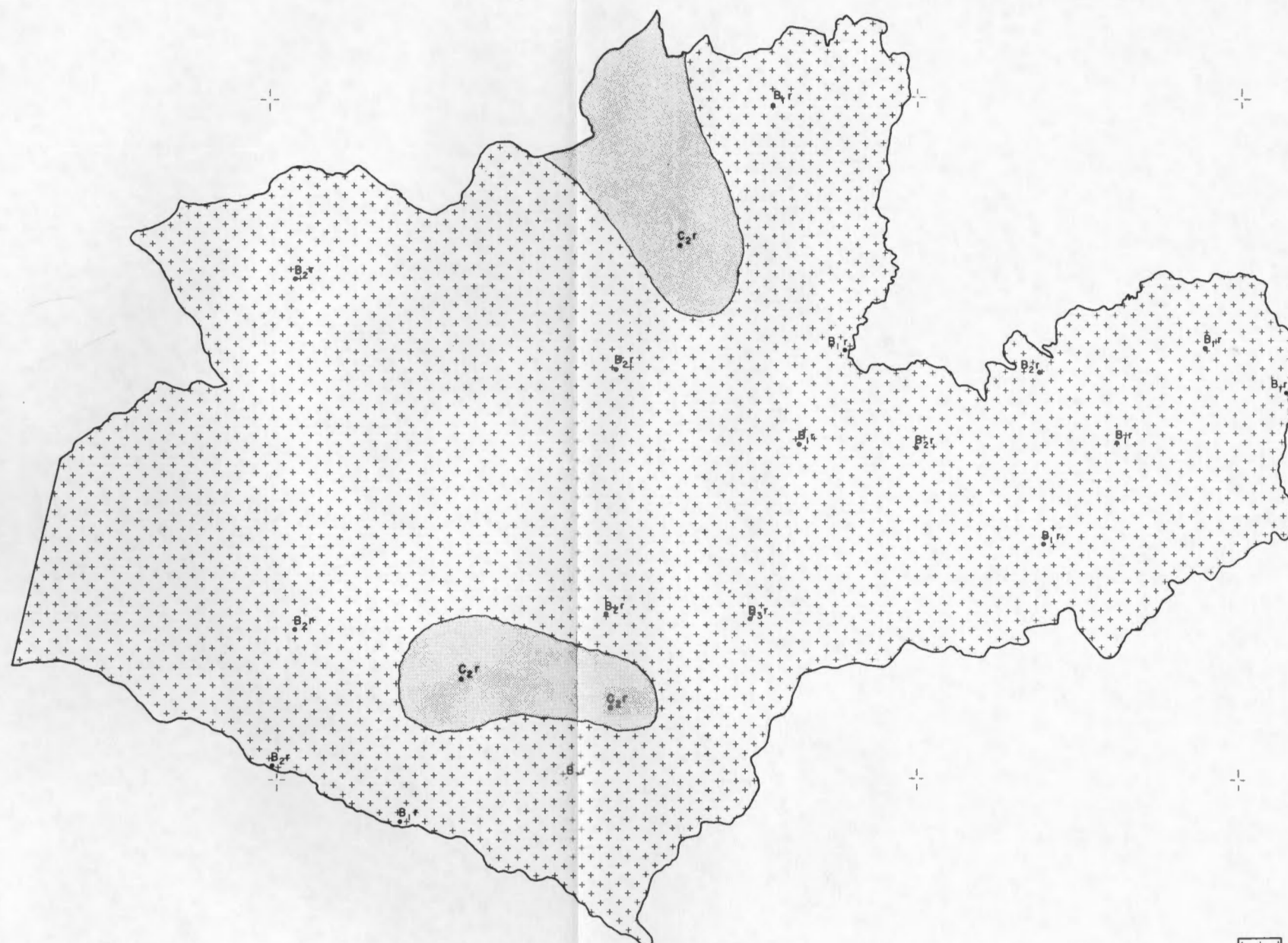
Megotérmico
Mesotérmico

ESCALA
10 0 10 20 30 40 50 km

TIPOLOGIA CLIMÁTICA - UMIDADE

SUDOESTE DE GOIÁS

MRH - 357 e 360



Umido (100 a 20)
 Semi-úmido (20 a 0)

ESCALA



Convênio - IBGE / EMBRAPA - 1979
 Autor - ALBERTINA O. VARGAS

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ISOISTAS - 1974-1977

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THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 1073.930 AND 1866.520
MEAN OF VALID DATA IS 1448.620
STANDARD DEVIATION OF VALID DATA IS 193.548

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POINT	ROW	COLUMN	DATE	VALUE	LEVEL
11	82	46	1	1516.80	2
21	69	48	2	1709.58	3
31	85	130	3	1479.52	3
41	78	89	4	1219.15	3
51	63	37	5	1640.72	1
61	56	156	6	1407.27	3
71	88	81	7	1501.16	3
81	88	81	8	1564.65	2
91	75	70	9	1316.00	2
101	86	183	10	1478.72	2
111	92	145	11	1478.72	2
121	86	146	12	1636.30	3
131	52	115	13	1540.33	3
141	56	115	14	1341.00	3
151	49	177	15	1193.77	1
161	18	114	16	1242.63	2
171	73	121	17	1448.76	3
181	40	100	18	1366.02	3
191	44	101	19	1366.02	4
201	32	100	20	1211.46	3

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

F-4AP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ISOJETAS - 1974-1977

ELECTIVE

```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

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DATUM

VALUE

1)	1516.80	00000210
2)	1709.25	00000220
3)	1479.02	00000230
4)	1219.15	00000240
5)	1649.72	00000250
6)	1407.87	00000260
7)	1501.56	00000270
8)	1564.65	00000280
9)	1316.03	00000290
10)	1079.93	00000300
11)	1491.47	00000310
12)	636.33	00000320
13)	1540.33	00000330
14)	1341.50	00000340
15)	1193.77	00000350
16)	1242.63	00000360
17)	1448.76	00000370
18)	1668.52	00000380
19)	1571.97	00000390
20)	1211.46	00000400

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ISOIETAS - 1974-1977

DATA VALUE EXTREMES ARE 1073.90 1866.52

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	1073.90	1232.42	1390.95	1549.47	1708.00
MAXIMUM	1232.42	1390.95	1549.47	1708.00	1866.52

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
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FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

[illegible]

0.0 MINUTES FOR HISTOGRAM

Figura 2

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1974

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1974

MAP WINDOW DISPLAYED IS
[20134.919, 12191.695] (TOP-LEFT CORNER)
[34486.096, 32078.316] (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 FOWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = 1000N COORDINATE - 20134.92 * 0.0078
COLUMN = 1000E COORDINATE - 12191.70 * 0.0098

DATA VALUE EXTREMES AFF 1274.70 2014.40

TOTAL MISSING DATA POINTS IS 5

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	1274.70	1422.64	1570.58	1718.52	1866.46
MAXIMUM	1422.64	1570.58	1718.52	1866.46	2014.40

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
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DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	1632.50	3
2)	69	48	1	1762.20	2
3)	55	10	1	1462.20	2
4)	78	89	4	1638.40	3
5)	63	87	5	1781.60	4
6)	54	156	6	1281.20	1
7)	88	61	8	1974.30	5
8)	98	81	8	1974.30	5
9)	75	0	0	NOT USED FOR CALCULATION	1
10)	65	145	10	1513.00	2
11)	35	50	11	1620.10	2
12)	46	146	12	2014.40	5
13)	52	115	13	1932.80	4
14)	45	118	14	1524.00	2
15)	49	177	15	1274.70	1
16)	13	114	16	NOT USED FOR CALCULATION	1
17)	43	121	17	NOT USED FOR CALCULATION	1
18)	70	108	18	1668.30	3
19)	44	9	19	1805.00	4
20)	32	100	20	NOT USED FOR CALCULATION	1

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	00000000	00000000
FREQ.	1	1	1	1	1

E-VALUES

DATUM VALUE

1)	939.00
2)	956.40
3)	900.30
4)	1002.40
5)	981.10
6)	884.50
7)	9999.90
8)	924.60
9)	9999.90
10)	894.20
11)	992.30
12)	963.40
13)	913.90
14)	899.90
15)	865.20
16)	9999.90
17)	9999.90
18)	892.40
19)	838.30
20)	9999.90

00000010
00000020
00000030
00000040
00000050
00000060
00000070
00000080
00000090
00000100
00000110
00000120
00000130
00000140
00000150
00000160
00000170
00000180
00000190
00000200

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT



SYMAP

0.0 MINUTES FOR MAP

Figura 3

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1975

MAP WINDOW DISPLAYED IS
1 20134.918, 12191.695 (TOP-LEFT CORNER)
34486.086, 32078.316 (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 FOWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW * (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN * (ACROSS COORDINATE - 12191.70) * 0.0098
THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 587.400 AND 1602.500
MEAN OF VALID DATA IS 1154.549
STANDARD DEVIATION OF VALID DATA IS 242.973

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	1291.40	4
2)	89	43	3	1458.70	3
3)	95	132	5	1021.50	3
4)	78	89	4	1161.50	3
5)	63	87	5	1322.40	3
6)	54	156	6	1171.20	3
7)	88	81	8	1235.90	3
8)	75	70	9	1483.40	3
9)	65	142	10	1224.00	3
10)	35	50	11	1455.60	3
11)	46	149	12	1091.40	3
12)	32	115	13	1190.60	3
13)	49	177	14	983.30	3
14)	18	114	16	793.30	3
15)	43	121	17	1156.30	3
16)	70	103	18	1102.50	3
17)	44	91	19	1102.50	3
20)	32	100	20	587.40	1

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1975

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

0.0 MINUTES FOR HISTOGRAM

F-VALUES

DATUM	VALUE
1)	1291.40
2)	1458.70
3)	1021.50
4)	1161.50
5)	1322.40
6)	1171.20
7)	1235.90
8)	1483.40
9)	1224.00
10)	1455.60
11)	1091.40
12)	1190.60
13)	983.30
14)	793.30
15)	1156.30
16)	1102.50
17)	1102.50
18)	1102.50
19)	1102.50
20)	587.40

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

00001060
00001070
00001080
00001090
00001100
00001110
00001120
00001130
00001140
00001150
00001160
00001170
00001180
00001190
00001200
00001210
00001220
00001230
00001240
00001250



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1975

DATA VALUE EXTREMES ARE 587.40 1602.50

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	587.40	790.42	993.44	1196.46	1399.48
MAXIMUM	790.42	993.44	1196.46	1399.48	1602.50

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
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FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	SYMBOLS	FREQ.
1	1.1.1.1	1003001
2	1.1.1.1	1003001
3	1.1.1.1	1003001
4	1.1.1.1	1003001
5	1.1.1.1	1003001
6	1.1.1.1	1003001
7	1.1.1.1	1003001
8	1.1.1.1	1003001

Figura 4

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1976

MAP WINDOW DISPLAYED IS
(0114.518, 12191.695) (TOP-LEFT CORNER)
(34486.086, 32078.316) (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 2013.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098
THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 822.100 AND 2418.900
MEAN OF VALID DATA IS 1598.398
STANDARD DEVIATION OF VALID DATA IS 327.020

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	1626.50	3
2)	69	48	2	1807.40	4
3)	55	130	3	1660.60	4
4)	78	87	4	822.10	4
5)	63	87	5	1797.90	4
6)	54	154	6	1695.90	4
7)	88	61	7	1448.10	4
8)	88	81	8	1321.40	4
9)	76	70	9	1147.80	4
10)	65	145	10	1720.30	4
11)	35	50	11	1509.90	4
12)	46	146	12	1767.00	4
13)	26	115	13	1457.60	4
14)	42	108	14	1517.20	4
15)	49	177	15	1263.50	4
16)	18	114	16	1627.70	4
17)	43	121	17	1622.20	4
18)	70	108	18	1518.10	4
19)	44	101	19	1518.10	4
20)	32	100	20	1567.90	4

STANDARD SEARCH RADIUS IS 4397.4219

0.0 MINUTES FOR INITIAL CALCULATIONS

0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1976

DATA VALUE EXTREMES ARE 822.10 2418.90

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	822.10	1141.46	1450.82	1780.18	2099.54
MAXIMUM	1141.46	1460.82	1780.18	2099.54	2418.90

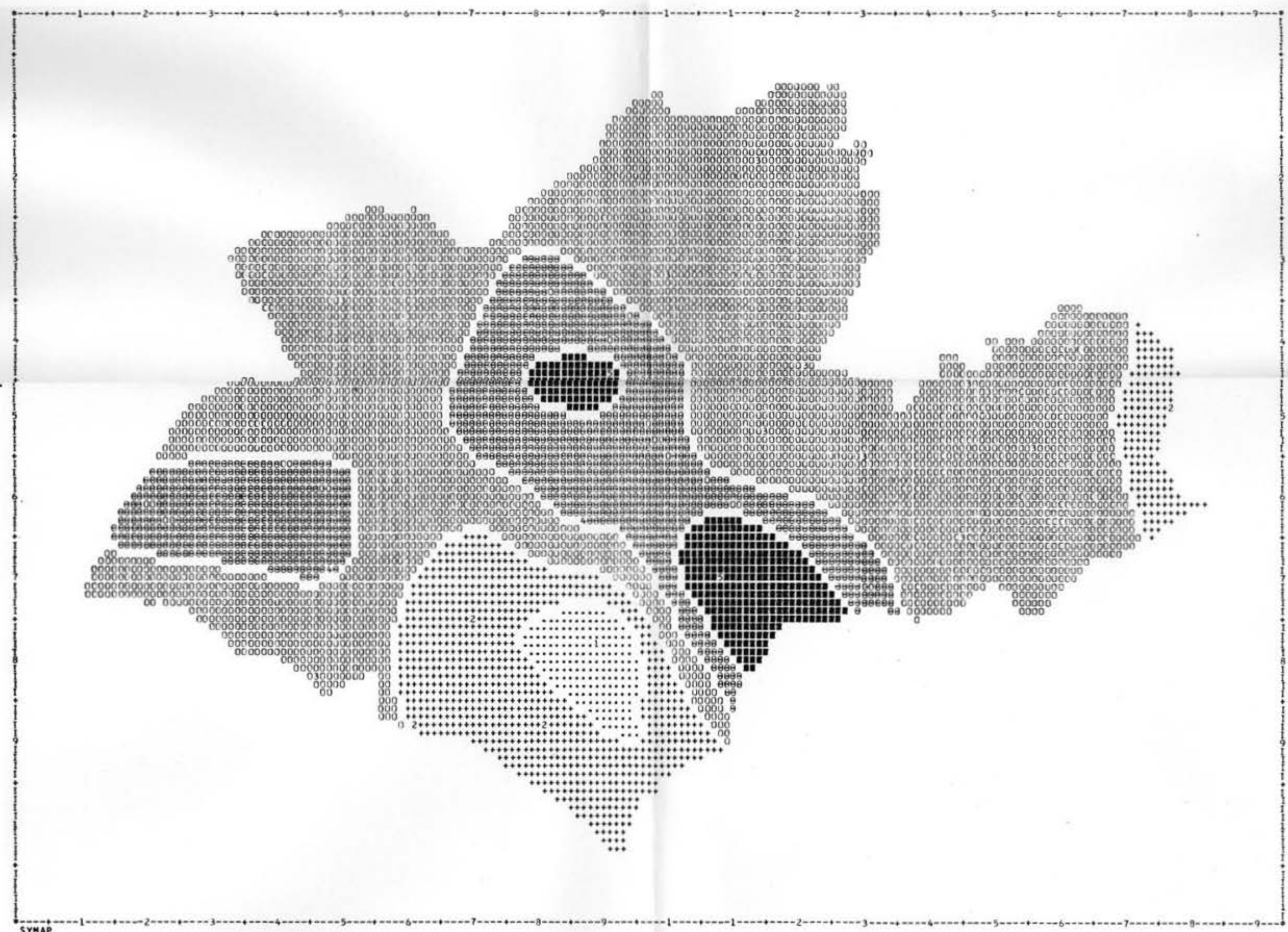
PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	88888888	88888888
FREQ.	1	1..1..1	1++2++1	1003001	1004001
	2		1++2++1	1003001	1004001
	3		1++2++1	1003001	1004001
	4		1++2++1	1003001	1004001
	5			1003001	1004001
	6			1003001	1004001
	7			1003001	1004001
	8			1003001	1004001
	9			1003001	1004001
	10			1003001	1004001
	11			1003001	1004001

0.0 MINUTES FOR HISTOGRAM



0.0 MINUTES FOR HISTOGRAM

E-VALUES

DATUM VALUE

1)	1626.50
2)	1807.40
3)	1660.60
4)	822.10
5)	1797.90
6)	1695.90
7)	1448.10
8)	1321.40
9)	1147.80
10)	1720.30
11)	1509.90
12)	1767.00
13)	1457.60
14)	1517.20
15)	1263.50
16)	1627.70
17)	1622.20
18)	1518.10
19)	1518.10
20)	1567.90

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1976

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90

0.0 MINUTES FOR INPUT

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1977

THERE ARE 17 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 1254.600 AND 1894.600
MEAN OF VALID DATA IS 1542.992
STANDARD DEVIATION OF VALID DATA IS 199.108

STANDARD SEARCH RADIUS IS 4878.5039
0.0 MINUTES FOR INITIAL CALCULATIONS

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
ALTURAS DE CHUVAS 1977

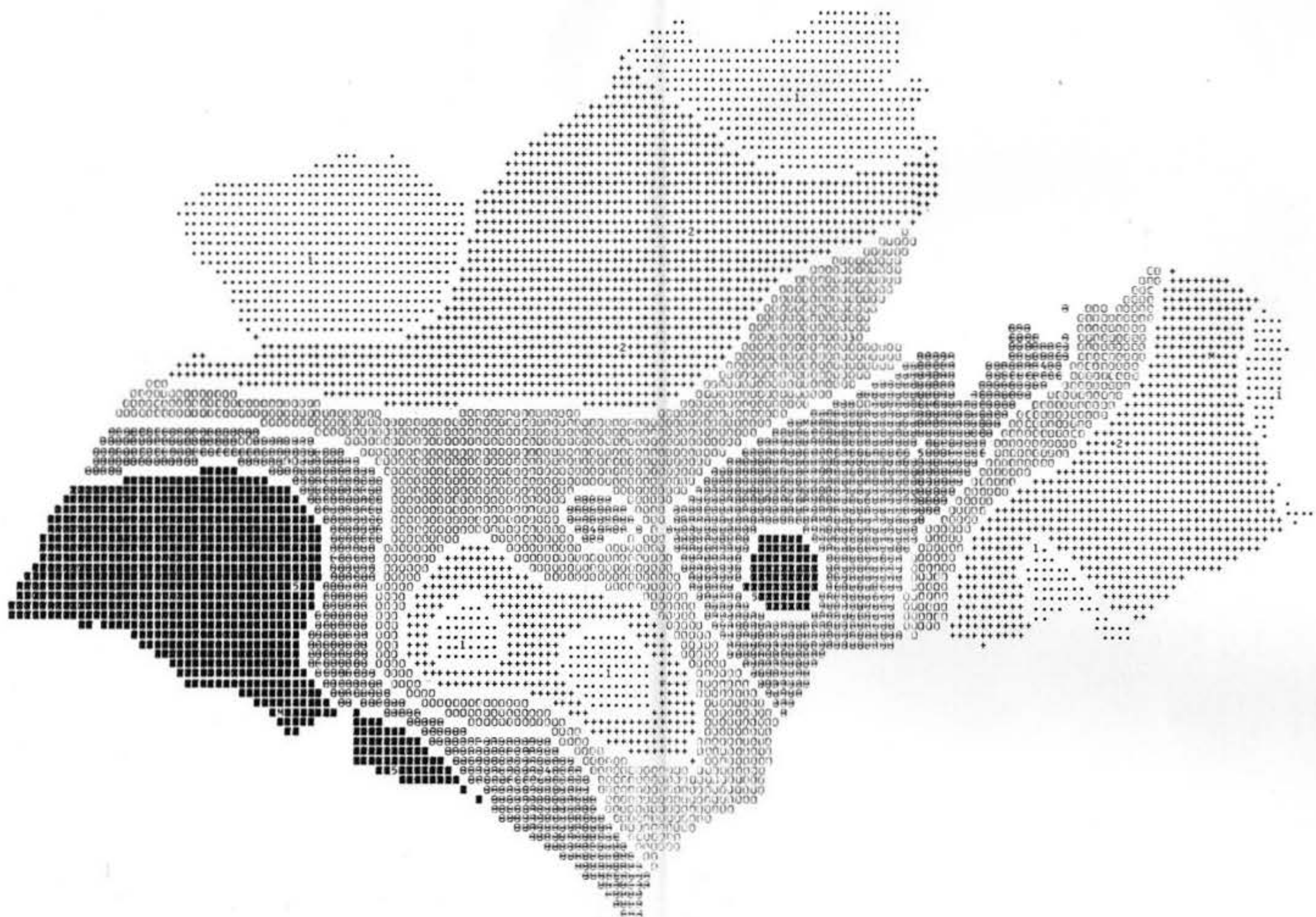
```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
1 NUMBER OF VALUE CLASS INTERVALS IS 5
1 MAP MARIN AND 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
1 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

```

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

00001490
00001493
00001500
00001510
00001520
00001530
00001540
00001550
00001560
00001570
00001580
00001590
00001600
00001610
00001620
00001630
00001640
00001650
00001660
00001670



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE Mapeamento - DIOEM/SUEGE ***
DEFICIENCIA HIDEICA - 1974-1977

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

```

ELECTIVE
1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

```

DATA	VALUE
1	188.77
2	116.77
3	178.57
4	284.95
5	145.75
6	163.53
7	22.60
8	202.60
9	229.96
10	153.38
11	176.96
12	174.25
13	198.40
14	147.83
15	170.10
16	204.03
17	172.53
18	212.32
19	163.30
20	227.46

*** SISTEMA AUTOMATICO DE MAPPAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDEICA - 1974-1977

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

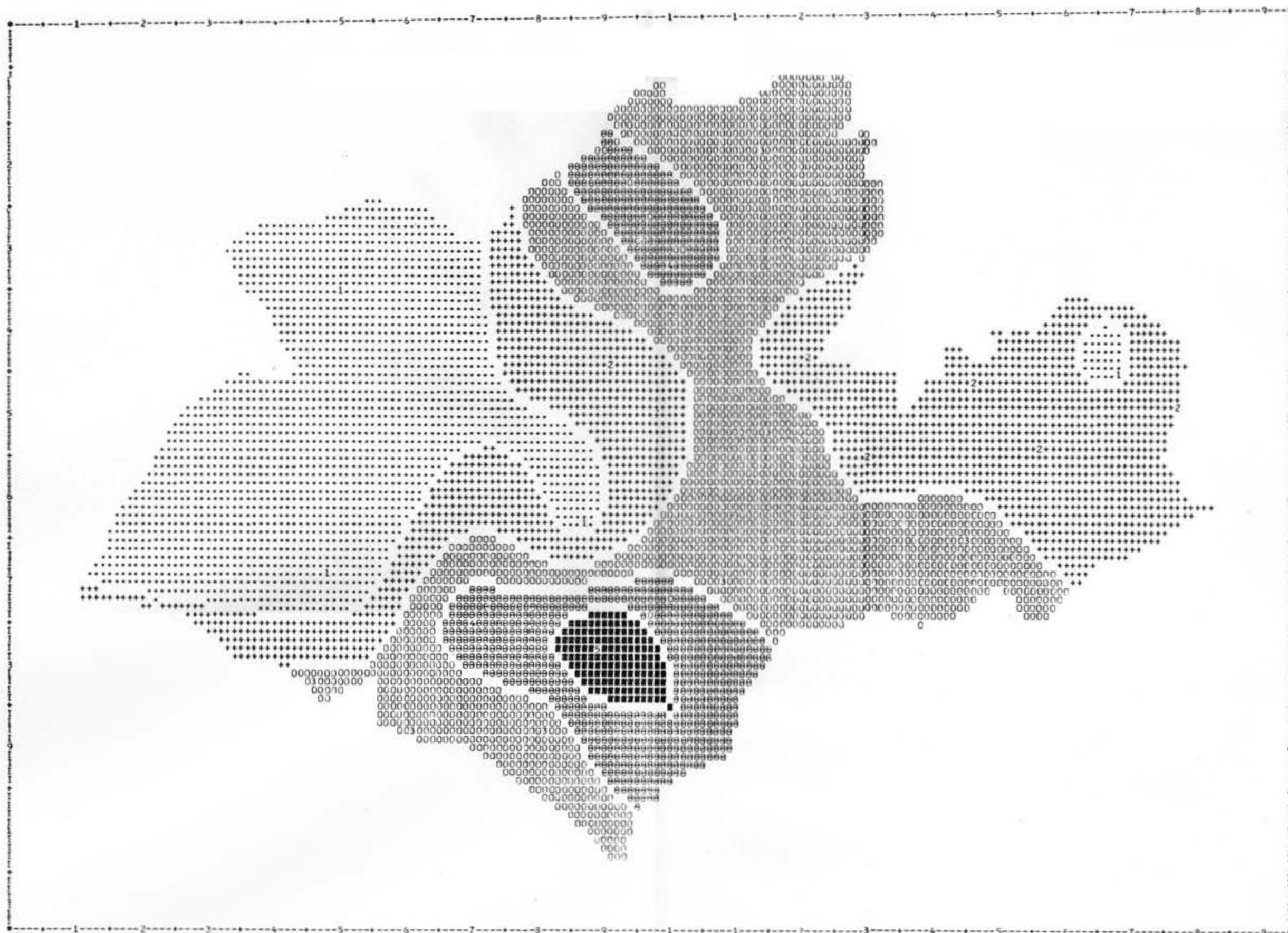
MINIMUM	116.77	150.41	184.04	217.68	251.31
MAXIMUM	150.41	184.04	217.68	251.31	284.95

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

```

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL
      1          2          3          4          5
SYMBOLS ***** R00000000 88888888 *****
***** R00000000 88888888 *****
***** R00000000 88888888 *****
***** R00000000 88888888 *****
***** R00000000 88888888 *****
***** R00000000 88888888 *****
***** R00000000 88888888 *****
FREQ. *****
1 4 6 1003001 18E49A1 18E5911
2 +2+ 1003001 18E49A1
3 +2+ 1003001
4 +2+ 1003001
5 +2+ 1003001
6 +2+ 1003001
7 +2+ 1003001
8 +2+ 1003001

```



*** SISTEMA AUTOMATICO DE Mapeamento - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1974

```
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.52) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098
```

```

THERE ARE 15 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 77.300 AND 244.200
MEAN OF VALID DATA IS 185.413
STANDARD DEVIATION OF VALID DATA IS 44.900

```

*** SISTEMA AUTOMATICO DE Mapeamento - DIDEM/SUEGE ***
DEFICIENCIA FIDEICA - 1974

POINT	ROW	COLUMN	DATE	VALUE	LEVEL
1)	82	46	1	202.40	4
2)	69	48	2	144.30	3
3)	95	130	3	199.90	3
4)	78	89	4	162.00	4
5)	63	87	5	183.30	5
6)	54	86	6	207.60	6
7)	88	81	7	244.20	7
8)	75	70	8	NOT USED FOR CALCULATION	5
10)	65	145	10	228.20	5
11)	77	77	11	277.90	1
12)	46	146	12	124.10	2
13)	52	115	13	194.10	4
14)	45	169	14	233.60	3
15)	77	177	15	188.90	3
16)	18	114	16	NOT USED FOR CALCULATION	5
17)	43	121	17	NOT USED FOR CALCULATION	5
18)	108	118	18	230.20	5
19)	44	74	19	209.40	4
20)	32	100	20	NOT USED FOR CALCULATION	5

DATA VALUE EXTREMES ARE	77.30	244.20
-------------------------	-------	--------

TOTAL MISSING DATA POINTS IS 5

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(1 MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	77.30	110.68	144.06	177.44	210.82
MAXIMUM	110.68	144.06	177.44	210.82	244.20

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

SYMBOLS

FREQ.



DATUM	VALUE	
1)	202.40	00001690
2)	144.50	00001700
3)	199.90	00001710
4)	162.00	00001720
5)	183.30	00001730
6)	207.00	00001740
7)	9999.90	00001750
8)	244.20	00001760
9)	9999.90	00001770
10)	277.20	00001780
11)	277.50	00001790
12)	124.10	00001800
13)	194.10	00001810
14)	154.50	00001820
15)	168.30	00001830
16)	9999.90	00001840
17)	9999.90	00001850
18)	230.20	00001860
19)	242.10	00001870
20)	9999.90	00001880

F-MAP
*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1974

ELECTIVE

```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
2 NUMBER OF VALUE CLASS INTERVALS IS 5
3 MAP MARGIN IS 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.99

```

0.0 MINUTES FOR INPUT

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

MAP WINDOW DISPLAYED IS
[20134.918, 12191.695] (TOP-LEFT CORNER)
[34486.086, 32078.516] (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = DOWN COORDINATE - 12191.701 * 0.0078
COLUMN = ACROSS COORDINATE - 12191.701 * 0.0098
THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 148.400 AND 417.400
MEAN OF VALID DATA IS 253.285
STANDARD DEVIATION OF VALID DATA IS 60.840

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	226.20	1
2)	82	46	1	148.40	1
3)	82	46	1	253.285	1
4)	82	46	1	256.00	1
5)	82	46	1	309.80	1
6)	82	46	1	363.60	1
7)	82	46	1	417.40	1
8)	82	46	1	226.20	1
9)	82	46	1	148.40	1
10)	82	46	1	253.285	1
11)	82	46	1	256.00	1
12)	82	46	1	309.80	1
13)	82	46	1	363.60	1
14)	82	46	1	417.40	1
15)	82	46	1	226.20	1
16)	82	46	1	148.40	1
17)	82	46	1	253.285	1
18)	82	46	1	256.00	1
19)	82	46	1	309.80	1
20)	82	46	1	363.60	1

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

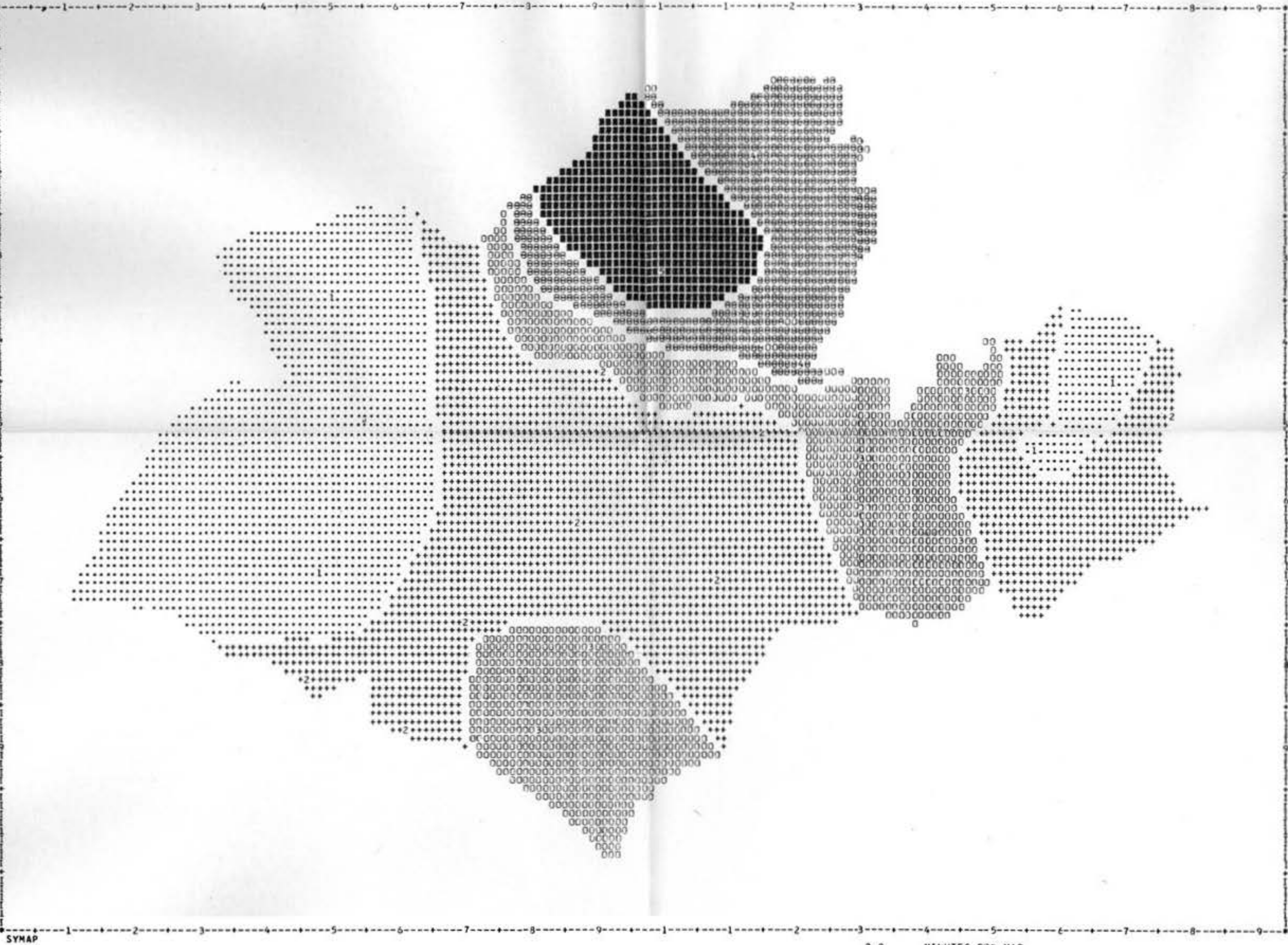
F-MAP
*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1975

ELECTIVE
1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.99
0.0 MINUTES FOR INPUT

E-VALUES

DATUM	VALUE	
1)	226.20	00001900
2)	148.40	00001910
3)	253.285	00001920
4)	256.00	00001930
5)	309.80	00001940
6)	363.60	00001950
7)	417.40	00001960
8)	226.20	00001970
9)	148.40	00001980
10)	253.285	00001990
11)	256.00	00002000
12)	309.80	00002010
13)	363.60	00002020
14)	417.40	00002030
15)	226.20	00002040
16)	148.40	00002050
17)	253.285	00002060
18)	256.00	00002070
19)	309.80	00002080
20)	363.60	00002090

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1975

DATA VALUE EXTREMES ARE 148.40 417.40

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	148.40	202.20	256.00	309.80	363.60
MAXIMUM	202.20	256.00	309.80	363.60	417.40

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

SYMBOLS	1	2	3	4	5
1	1	1	1	1	1
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1
8	1	1	1	1	1
9	1	1	1	1	1

0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDFICA - 1976

DATA VALUE EXTREMES ARE	61.00	415.80
-------------------------	-------	--------

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL (*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)					
MINIMUM	61.00	131.96	202.92	273.88	344.84
MAXIMUM	131.96	202.92	273.88	344.84	415.80

PERCENTAGE OF TOTAL ABSOLUTE ^a VALUE RANGE APPLYING TO EACH LEVEL				
20.00	20.00	20.00	20.00	20.00

```

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL
LEVEL      1      2      3      4      5
*****
SYMBOLS    ***** 000000000 888888888 888888888
***** 000000000 888888888
***** 000030000 888888888
***** 000000000 888888888
***** 000000000 888888888
***** 000000000 888888888
*****
FREQ.      1      1+2+3+4      0      1005001
1 1 1 1 1
2 1 1 1 1
3 1 1 1 1
4 1 1 1 1
5 1 1 1 1
6 1 1 1 1
7 1 1 1 1
8 1 1 1 1
9 1 1 1 1

```

DATUM	VALUE
1980-01-01	100
1980-07-01	105
1981-01-01	110
1981-07-01	115
1982-01-01	120
1982-07-01	125
1983-01-01	130
1983-07-01	135
1984-01-01	140
1984-07-01	145
1985-01-01	150
1985-07-01	155
1986-01-01	160
1986-07-01	165
1987-01-01	170
1987-07-01	175
1988-01-01	180
1988-07-01	185
1989-01-01	190
1989-07-01	195
1990-01-01	200
1990-07-01	205
1991-01-01	210
1991-07-01	215
1992-01-01	220
1992-07-01	225
1993-01-01	230
1993-07-01	235
1994-01-01	240
1994-07-01	245
1995-01-01	250
1995-07-01	255
1996-01-01	260
1996-07-01	265
1997-01-01	270
1997-07-01	275
1998-01-01	280
1998-07-01	285
1999-01-01	290
1999-07-01	295
2000-01-01	300
2000-07-01	305
2001-01-01	310
2001-07-01	315
2002-01-01	320
2002-07-01	325
2003-01-01	330
2003-07-01	335
2004-01-01	340
2004-07-01	345
2005-01-01	350
2005-07-01	355
2006-01-01	360
2006-07-01	365
2007-01-01	370
2007-07-01	375
2008-01-01	380
2008-07-01	385
2009-01-01	390
2009-07-01	395
2010-01-01	400
2010-07-01	405
2011-01-01	410
2011-07-01	415
2012-01-01	420
2012-07-01	425
2013-01-01	430
2013-07-01	435
2014-01-01	440
2014-07-01	445
2015-01-01	450
2015-07-01	455
2016-01-01	460
2016-07-01	465
2017-01-01	470
2017-07-01	475
2018-01-01	480
2018-07-01	485
2019-01-01	490
2019-07-01	495
2020-01-01	500
2020-07-01	505
2021-01-01	510
2021-07-01	515
2022-01-01	520
2022-07-01	525
2023-01-01	530
2023-07-01	535
2024-01-01	540
2024-07-01	545
2025-01-01	550
2025-07-01	555
2026-01-01	560
2026-07-01	565
2027-01-01	570
2027-07-01	575
2028-01-01	580
2028-07-01	585
2029-01-01	590
2029-07-01	595
2030-01-01	600
2030-07-01	605
2031-01-01	610
2031-07-01	615
2032-01-01	620
2032-07-01	625
2033-01-01	630
2033-07-01	635
2034-01-01	640
2034-07-01	645
2035-01-01	650
2035-07-01	655
2036-01-01	660
2036-07-01	665
2037-01-01	670
2037-07-01	675
2038-01-01	680
2038-07-01	685
2039-01-01	690
2039-07-01	695
2040-01-01	700
2040-07-01	705
2041-01-01	710
2041-07-01	715
2042-01-01	720
2042-07-01	725
2043-01-01	730

	80
135	00
614	00
195	80
147	70
13	70
100	00
344	60
242	20
222	20
550	60
884	90
133	70
97	80
73	50
191	10
80	40
150	40

```
00002110
00002120
00002130
00002140
00002150
00002160
00002170
00002180
00002190
00002200
00002210
00002220
00002230
00002240
00002250
00002260
00002270
00002280
00002290
00002300
```

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1976

ELECTIVE

```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
2 NUMBER OF VALUE CLASS INTERVALS IS 5
3 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
4 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90

```


*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1977

```

1 MAP DIMENSIONS ARE 1.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
4 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90

```

DATUM	VALUE
-------	-------

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SURGE ***
DEFICIENCIA HIDRICA - 1977

DATA POINTS FOR MAP					
POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	NOT USED FOR	CALCULATION	
2)	69	48	2	113.20	1
3)	59	130	3	78.30	1
4)	78	89	4	299.70	1
5)	63	87	5	118.60	1
6)	54	156	6	136.20	2
7)	88	61	7	148.80	2
8)	88	81	8	127.10	2
9)	70	70	9	190.90	2
10)	65	145	10	164.30	2
11)	35	50	11	105.50	2
12)	46	146	12	127.90	2
13)	2	115	NOT USED FOR	CALCULATION	
14)	45	168	NOT USED FOR	CALCULATION	
15)	49	177	15	126.80	2
16)	18	114	16	172.80	1
17)	71	121	17	182.90	1
18)	70	108	18	167.00	1
19)	44	91	19	75.90	1
20)	32	100	20	114.60	1

1	9999.90	00002320
2	113.20	00002330
3	78.30	00002340
4	299.70	00002350
5	118.60	00002360
6	136.20	00002370
7	148.80	00002380
8	127.10	00002390
9	190.20	00002400
10	164.30	00002410
11	105.50	00002420
12	127.90	00002430
13	9999.90	00002440
14	9999.90	00002450
15	126.80	00002460
16	172.80	00002470
17	112.90	00002480
18	154.70	00002490
19	75.90	00002500
20	114.60	00002510

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
DEFICIENCIA HIDRICA - 1977

TOTAL MISSING DATA POINTS IS 3

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	75.90	120.66	165.42	210.18	254.94
MAXIMUM	120.66	165.42	210.18	254.94	299.70

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

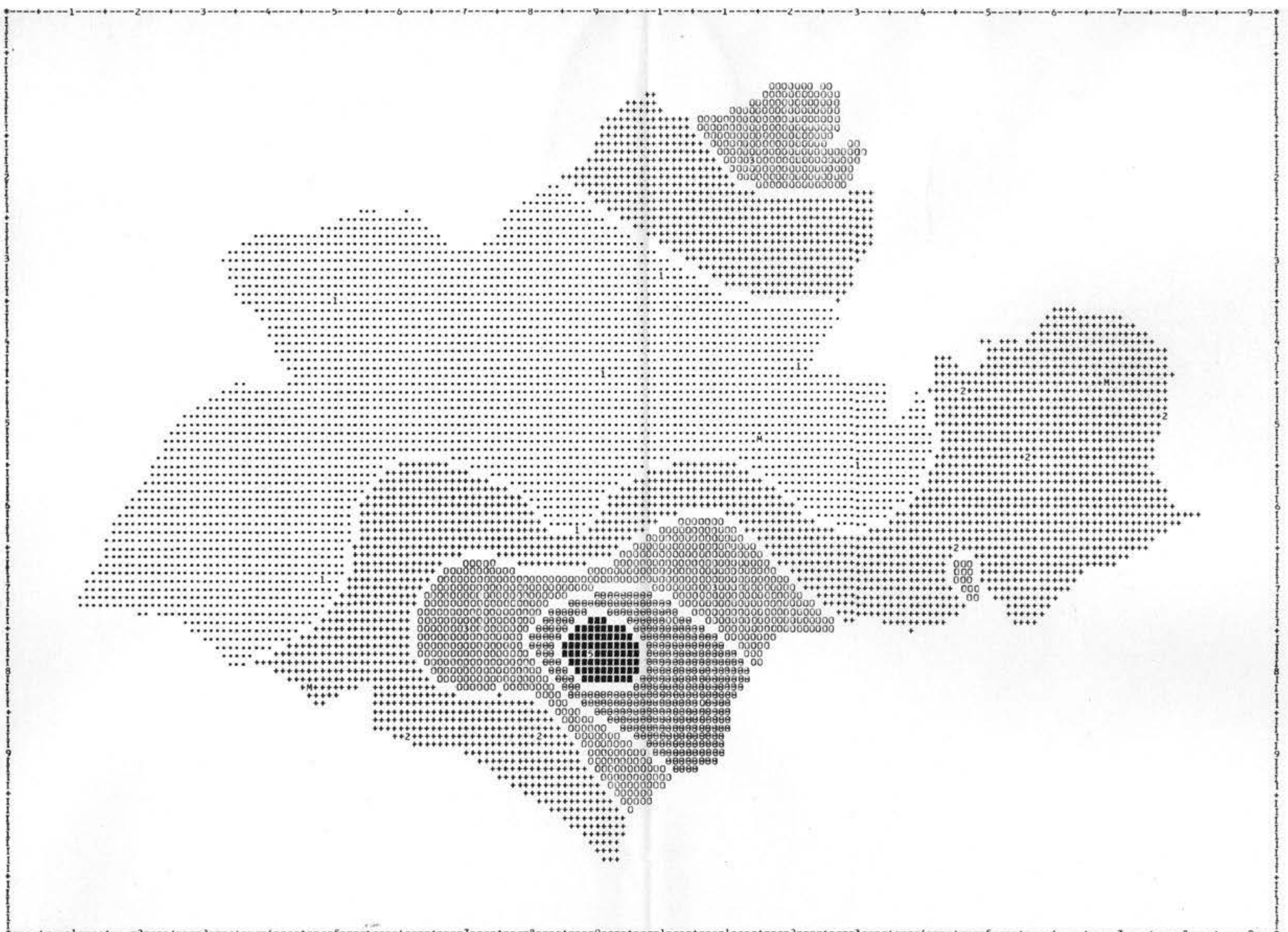
[illegible]

Figura 11

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEN/SUEGE ***
EXCEDENTE HIDRICO - 1974-1977

MAP WINDOW DISPLAYED IS
(20134.918, 12191.695) (TOP-LEFT CORNER)
(34486.086, 32078.316) (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098

THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 310.670 AND 950.620
MEAN OF VALID DATA IS 545.833
STANDARD DEVIATION OF VALID DATA IS 143.849

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
11	82	46	1	563.53	2
21	82	46	2	564.50	2
31	82	46	3	567.47	2
41	82	46	4	372.05	2
51	82	46	5	619.57	2
61	82	46	6	319.32	2
71	82	46	7	225.00	2
81	82	46	8	364.50	2
91	82	46	9	368.66	2
101	82	46	10	464.05	2
111	82	46	11	225.00	2
121	82	46	12	267.82	2
131	82	46	13	722.85	2
141	82	46	14	638.36	2
151	82	46	15	440.03	2
161	82	46	16	310.67	2
171	82	46	17	371.40	2
181	82	46	18	540.70	2
191	82	46	19	950.62	2
201	82	46	20	659.67	2
211	82	46	21	476.90	2

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

E-VALUES

DATUM	VALUE
-------	-------

11	563.53
21	564.50
31	567.47
41	372.05
51	619.57
61	319.32
71	225.00
81	364.50
91	368.66
101	464.05
111	225.00
121	267.82
131	722.85
141	638.36
151	440.03
161	310.67
171	371.40
181	540.70
191	950.62
201	659.67
211	476.90

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEN/SUEGE ***
EXCEDENTE HIDRICO - 1974-1977

DATA VALUE EXTREMES ARE 310.67 950.62

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	310.67	438.66	566.65	694.64	822.63
MAXIMUM	438.66	566.65	694.64	822.63	950.62

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	*****	*****	*****	*****	*****
FREQ.	1	2	3	4	5

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEN/SUEGE ***
EXCEDENTE HIDRICO - 1974-1977

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT



Figura 12

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1974

MAP WINDOW DISPLAYED IS
{ 20134.92, 12191.70 } (TOP-LEFT CORNER)
{ 34486.096, 32079.316 } (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098

THERE ARE 15 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 396.700 AND 1051.000
MEAN OF VALID DATA IS 726.172
STANDARD DEVIATION OF VALID DATA IS 195.399

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1	82	46	1	693.50	1
2	89	48	2	765.60	2
3	55	130	3	565.30	3
4	78	89	4	636.00	4
5	63	87	5	800.50	5
6	94	156	6	396.70	6
7	88	61	7	1044.70	7
8	75	70	8	NOT USED FOR CALCULATION	8
9	65	145	9	618.80	9
10	35	50	10	758.00	10
11	46	15	11	1051.00	11
12	52	14	12	1026.60	12
13	45	168	13	624.90	13
14	49	177	14	409.50	14
15	18	114	15	NOT USED FOR CALCULATION	15
16	43	111	16	NOT USED FOR CALCULATION	16
17	70	108	17	735.40	17
18	44	91	18	766.10	18
19	32	100	19	NOT USED FOR CALCULATION	19
20					

STANDARD SEARCH RADIUS IS 5303.4922
0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1974

ELECTIVE

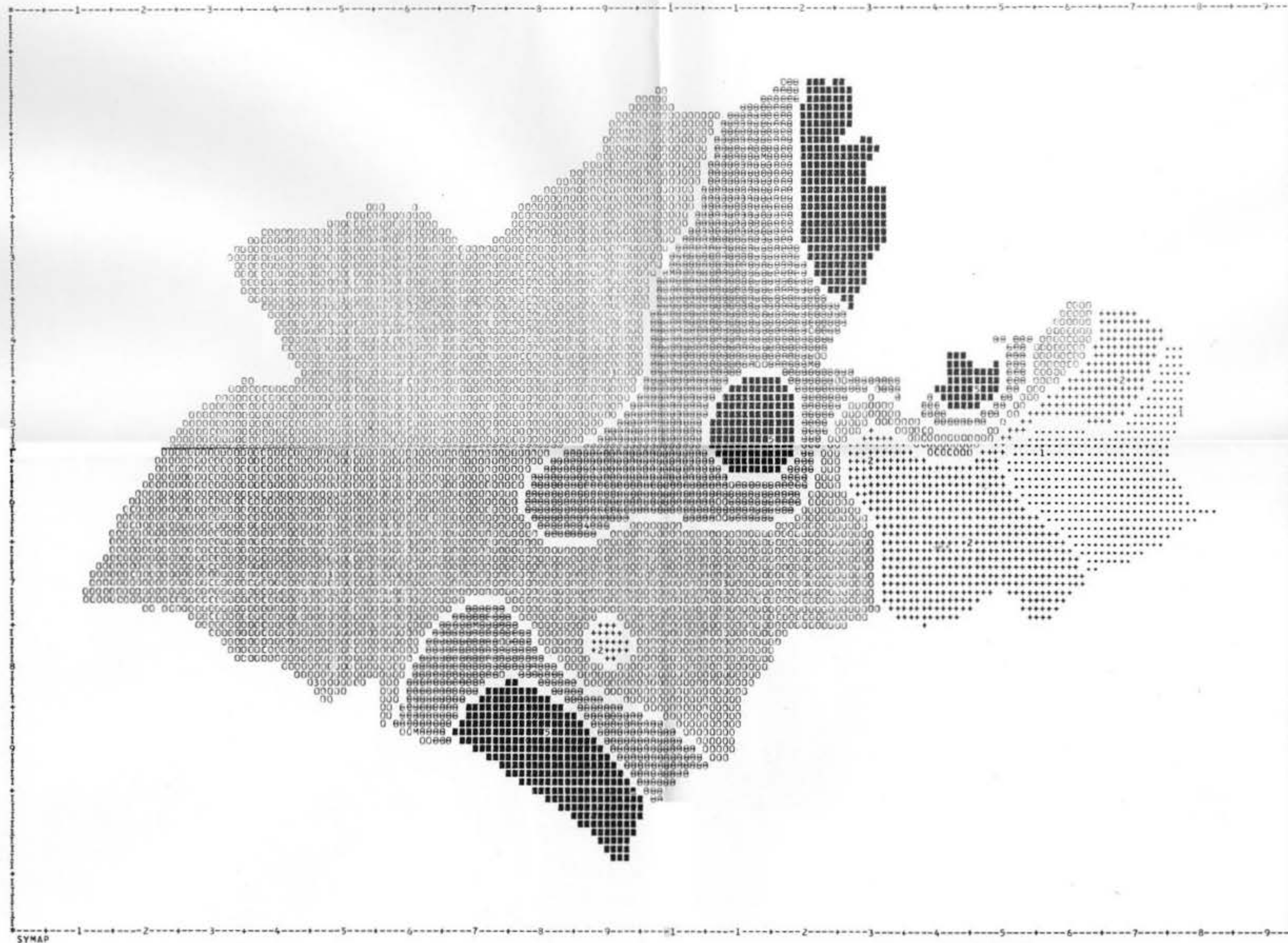
1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

E-VALUES

DATUM VALUE

1	693.50	00002530
2	765.60	00002540
3	565.30	00002550
4	636.00	00002560
5	800.50	00002570
6	396.70	00002580
7	1044.70	00002590
8	NOT USED FOR CALCULATION	00002600
9	618.80	00002610
10	758.00	00002620
11	1051.00	00002630
12	1026.60	00002640
13	624.90	00002650
14	409.50	00002660
15	NOT USED FOR CALCULATION	00002670
16	NOT USED FOR CALCULATION	00002680
17	735.40	00002690
18	766.10	00002700
19	NOT USED FOR CALCULATION	00002710
20	9999.90	00002720

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1974

DATA VALUE EXTREMES ARE 396.70 1051.00

TOTAL MISSING DATA POINTS IS 5

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	396.70	527.56	658.42	789.28	920.14
MAXIMUM	527.56	658.42	789.28	920.14	1051.00

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	00000000	00000000
FREQ.	1	2	4	103001	100300

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DTDEN/SUEGE ***
EXCEDENTE HIDRICO - 1975

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THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 17.800 AND 712.200
MEAN OF VALID DATA IS 319.319
STANDARD DEVIATION OF VALID DATA IS 184.616

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POINT	ROW	COLUMN	DATE	VALUE	LEVEL
11	32	46	1	376.70	4
21	39	43	2	465.70	4
31	35	110	3	465.30	4
41	73	82	4	325.40	2
51	93	87	5	325.40	2
61	24	151	6	325.40	2
71	88	71	7	325.40	2
81	88	81	8	346.60	3
91	75	65	9	529.90	3
101	65	142	10	115.13	1
111	46	120	11	395.80	1
121	46	146	12	298.20	3
131	52	115	13	306.50	3
141	45	104	14	106.12	1
151	45	127	15	86.00	1
161	18	114	16	90.70	1
171	43	121	17	406.90	3
181	72	108	18	715.20	2
191	44	101	19	288.10	2
201	32	102	20	17.80	2

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIOEM/SUEGE ***
EXCEDENTE HIDRICO - 1975

ELECTIVE

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1 MAP DIMENSIONS ARE 16.00 INCHES LONG BY 19.40 INCHES WIDE
2 NUMBER OF VALUE CLASS INTERVALS IS 5
3 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
4 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.99

```

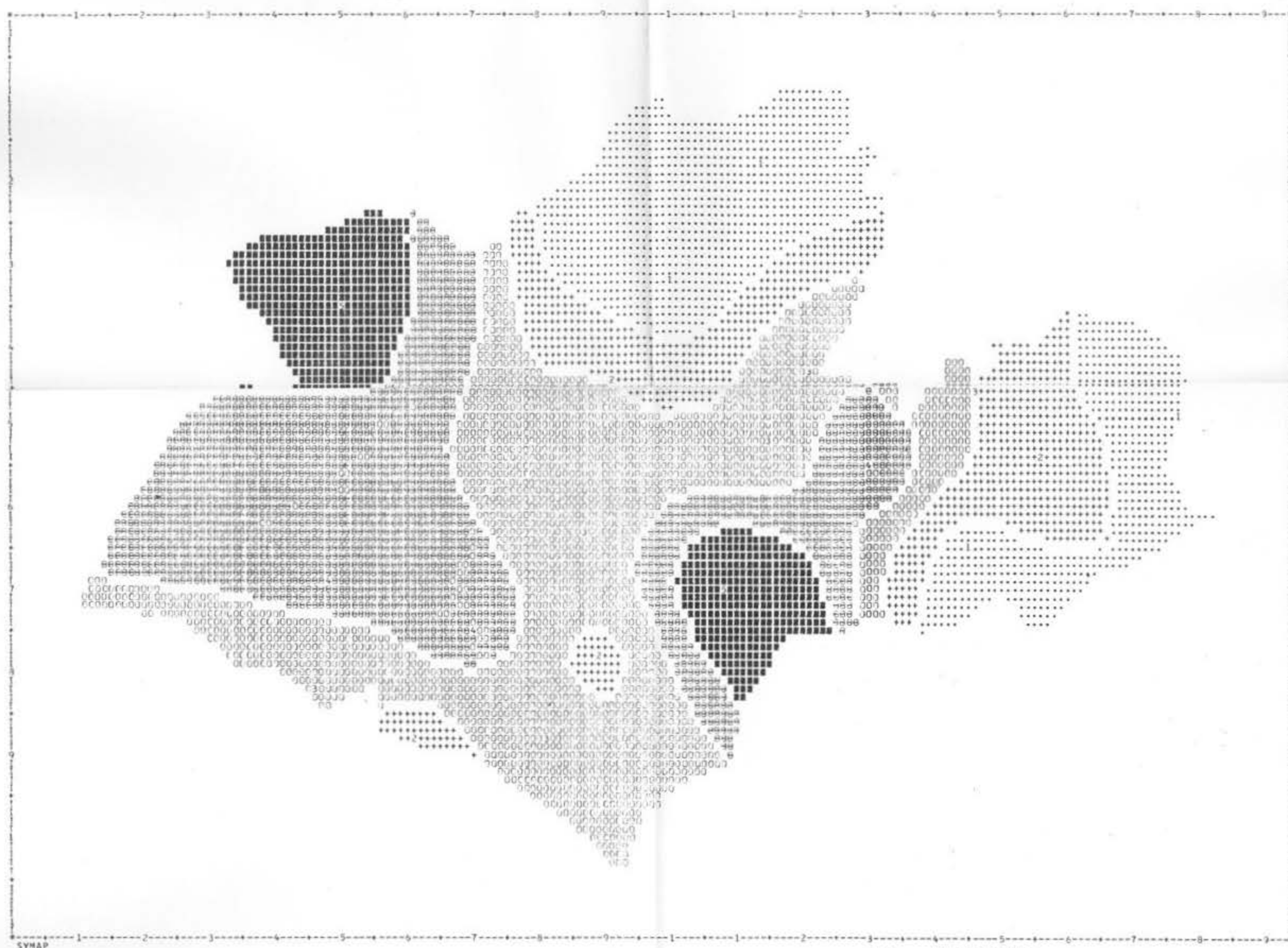
0.0 MINUTES FOR INPUT

0.0 MINUTES FOR HISTOGRAM

E-VALUES

DATUM	VALUE	
1	376.20	00002740
2	465.70	00002750
3	565.30	00002760
4	259.40	00002770
5	358.40	00002780
6	253.80	00002790
7	238.10	00002800
8	346.60	00002810
9	529.00	00002820
0	228.10	00002830
1	115.80	00002840
2	208.70	00002850
3	306.50	00002860
4	106.10	00002870
5	59.20	00002880
6	90.70	00002890
7	406.50	00002900
8	712.20	00002910
9	238.10	00002920
0	17.80	00002930

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIOEM/SUEGE ***
EXCEDENTE HIDRICO - 1975

DATA VALUE EXTREMES ARE	17.40	712.20
-------------------------	-------	--------

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	17.80	156.68	295.56	434.44	573.32
MAXIMUM	156.68	295.56	434.44	573.32	712.20

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL				
20.00	20.00	20.00	20.00	20.00

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

SYMBOL \$									
1	+	+	+	+	+	+	+	+	+
2	+	+	+	+	+	+	+	+	+
3	+	+	+	+	+	+	+	+	+
4	+	+	+	+	+	+	+	+	+
5	+	+	+	+	+	+	+	+	+
6	+	+	+	+	+	+	+	+	+
7	+	+	+	+	+	+	+	+	+
8	+	+	+	+	+	+	+	+	+
9	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+
21	+	+	+	+	+	+	+	+	+
22	+	+	+	+	+	+	+	+	+
23	+	+	+	+	+	+	+	+	+
24	+	+	+	+	+	+	+	+	+
25	+	+	+	+	+	+	+	+	+
26	+	+	+	+	+	+	+	+	+
27	+	+	+	+	+	+	+	+	+
28	+	+	+	+	+	+	+	+	+
29	+	+	+	+	+	+	+	+	+
30	+	+	+	+	+	+	+	+	+
31	+	+	+	+	+	+	+	+	+
32	+	+	+	+	+	+	+	+	+
33	+	+	+	+	+	+	+	+	+
34	+	+	+	+	+	+	+	+	+
35	+	+	+	+	+	+	+	+	+
36	+	+	+	+	+	+	+	+	+
37	+	+	+	+	+	+	+	+	+
38	+	+	+	+	+	+	+	+	+
39	+	+	+	+	+	+	+	+	+
40	+	+	+	+	+	+	+	+	+
41	+	+	+	+	+	+	+	+	+
42	+	+	+	+	+	+	+	+	+
43	+	+	+	+	+	+	+	+	+
44	+	+	+	+	+	+	+	+	+
45	+	+	+	+	+	+	+	+	+
46	+	+	+	+	+	+	+	+	+
47	+	+	+	+	+	+	+	+	+
48	+	+	+	+	+	+	+	+	+
49	+	+	+	+	+	+	+	+	+
50	+	+	+	+	+	+	+	+	+
51	+	+	+	+	+	+	+	+	+
52	+	+	+	+	+	+	+	+	+
53	+	+	+	+	+	+	+	+	+
54	+	+	+	+	+	+	+	+	+
55	+	+	+	+	+	+	+	+	+
56	+	+	+	+	+	+	+	+	+
57	+	+	+	+	+	+	+	+	+
58	+	+	+	+	+	+	+	+	+
59	+	+	+	+	+	+	+	+	+

0.0 MINUTES FOR HISTOGRAM

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1976

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	620.90	
2)	65	48	2	727.20	
3)	78	13	3	702.20	
4)	78	13	4	732.20	
5)	63	97	5	704.20	
6)	54	156	6	718.10	
7)	68	81	7	477.20	
8)	88	70	8	502.20	
9)	75	70	9	311.20	
10)	65	145	10	700.10	
11)	35	50	11	533.20	
12)	46	146	12	830.00	
13)	52	158	13	582.10	
14)	47	158	14	589.10	
15)	49	158	15	334.20	
16)	18	114	16	624.90	
17)	43	121	17	615.10	
18)	70	108	18	506.90	
19)	32	91	19	103.10	
20)	32	100	20	54.10	

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

E-VALUES

DATUM	VALUE	
1	620.90	00002950
2	757.00	00002965
3	705.20	00002970
4	132.70	00002980
5	704.20	00002990
6	718.10	00003000
7	477.10	00003010
8	302.20	00003020
9	231.20	00003030
10	700.10	00003040
11	315.50	00003050
12	830.00	00003060
13	582.00	00003070
14	589.10	00003080
15	331.60	00003090
16	624.90	00003100
17	819.10	00003110
18	1506.90	00003120
19	1108.10	00003130
20	843.30	00003140

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

E-MAP

*** SISTEMA AUTOMATICO DE MAPPAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1976

ELECTIVE

```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

```



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1976

DATA VALUE EXTREMES ARE	132.70	1506.90
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ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
1*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	132.70	407.54	682.38	957.22	1232.06
MAXIMUM	407.54	682.38	957.22	1232.06	1506.90

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

[illegible]

Figura 15

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1977

MAP WINDOW DISPLAYED IS
(20134.918, 12191.695) (TOP-LEFT CORNER)
(34486.086, 32078.316) (BOTTOM-RIGHT CORNER)

MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)

MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH

TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098

THERE ARE 16 VALID DATA VALUES

MINIMUM AND MAXIMUM VALID DATA VALUES ARE 345.800 AND 869.600

MEAN OF VALID DATA IS 604.117

STANDARD DEVIATION OF VALID DATA IS 182.073

DATA POINTS FOR MAP					
POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	NOT USED FOR CALCULATION		
2)	48	2	779.70		5
3)	55	130	746.50		2
4)	78	89	460.10		3
5)	63	87	615.20		4
6)	54	156	704.70		5
7)	88	61	869.60		6
8)	88	81	NOT USED FOR CALCULATION		
9)	75	70	345.80		1
10)	65	145	425.20		2
11)	35	50	382.10		3
12)	46	146	712.20		4
13)	52	115	NOT USED FOR CALCULATION		
14)	45	168	NOT USED FOR CALCULATION		
15)	49	177	432.10		1
16)	18	114	398.60		2
17)	43	121	600.10		3
18)	70	108	848.00		4
19)	44	91	476.40		5
20)	32	100	869.60		6

STANDARD SEARCH RADIUS IS 5077.7070

0.0 MINUTES FOR INITIAL CALCULATIONS

E-VALUES

DATUM	VALUE
(1)	9999.90
(2)	779.70
(3)	746.50
(4)	460.10
(5)	615.20
(6)	704.70
(7)	869.60
(8)	9999.90
(9)	345.80
(10)	425.20
(11)	382.10
(12)	712.20
(13)	9999.90
(14)	9999.90
(15)	432.10
(16)	398.60
(17)	600.10
(18)	848.00
(19)	476.40
(20)	869.60

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1977

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT



SYMAP

0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EXCEDENTE HIDRICO - 1977

DATA VALUE EXTREMES ARE 345.80 869.60

TOTAL MISSING DATA POINTS IS 4

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	345.80	450.56	555.32	660.08	764.84
MAXIMUM	450.56	555.32	660.08	764.84	869.60

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	88888888	88888888
FREQ.	1	1	1	1	1

Figura 16

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974-1977

MAP WINDOW DISPLAYED IS
{ 20134.918, 12191.695 } {TOP-LEFT CORNER}
{ 34486.086, 32078.316 } {BOTTOM-RIGHT CORNER}

MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)

MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH

TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098

THERE ARE 20 VALID DATA VALUES

MINIMUM AND MAXIMUM VALID DATA VALUES ARE 672.220 AND 1024.620

MEAN OF VALID DATA IS 916.751

STANDARD DEVIATION OF VALID DATA IS 71.021

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	953.26	4
2)	69	48	2	1024.62	5
3)	65	130	3	921.62	4
4)	78	89	4	879.45	3
5)	63	87	5	1018.65	5
6)	54	156	6	928.27	4
7)	88	61	7	980.20	5
8)	88	81	8	971.20	5
9)	75	70	9	947.36	4
10)	65	145	10	928.60	4
11)	35	50	11	947.15	4
12)	46	146	12	913.32	4
13)	52	115	13	898.86	4
14)	45	168	14	672.22	1
15)	49	177	15	883.40	3
16)	18	114	16	876.56	3
17)	43	121	17	908.06	4
18)	70	108	18	910.77	4
19)	44	91	19	917.95	4
20)	32	100	20	853.53	3

STANDARD SEARCH RADIUS IS 4397.4219

0.0 MINUTES FOR INITIAL CALCULATIONS

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974-1977

DATA VALUE EXTREMES ARE 672.22 1024.62

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	672.22	742.70	813.18	883.66	954.14	1024.62
MAXIMUM	742.70	813.18	883.66	954.14	1024.62	

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	88888888	88888888
.....	.....	++++++	00000000	88888888	88888888
SYMBOLS	.....	++++++	00000000	88888888	88888888
.....	.....	++++++	00000000	88888888	88888888
.....	.....	++++++	00000000	88888888	88888888
.....	.....	++++++	00000000	88888888	88888888
FREQ.	1	1	0	4	11
1	1	1	1	1	1
2					
3					
4					
5					
6					
7					
8					
9					
10					

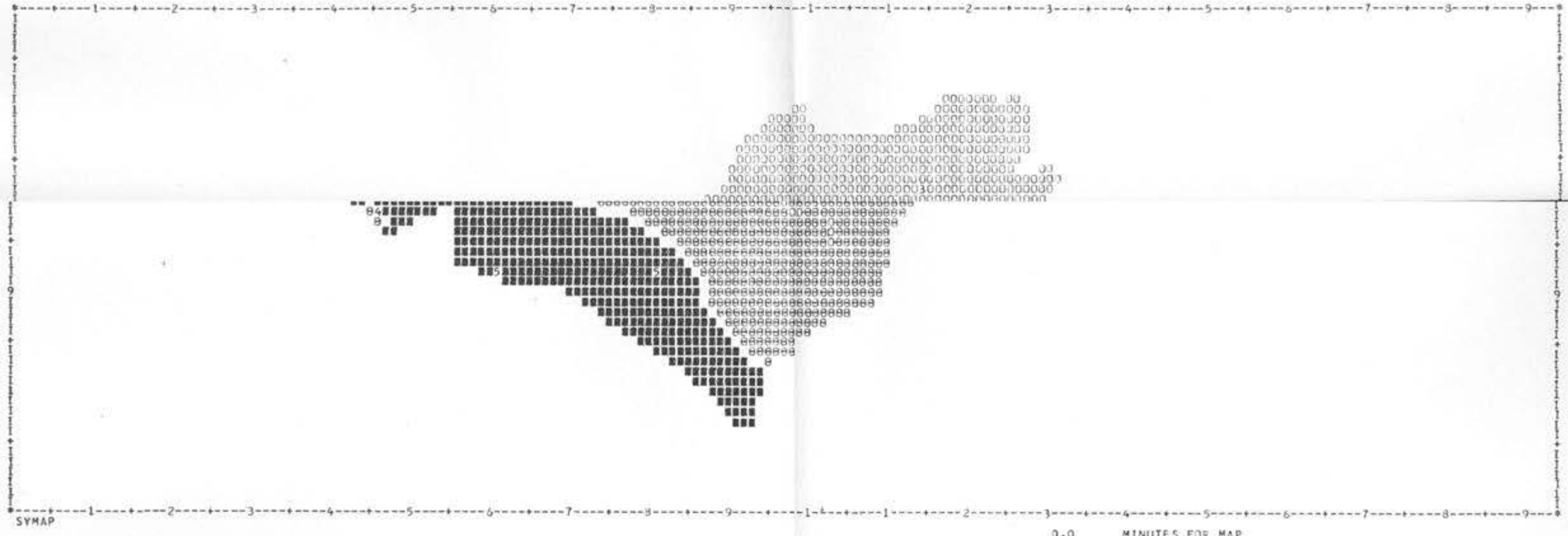
E-VALUES

DATUM VALUE

DATUM	VALUE
(1)	953.26
(2)	1024.62
(3)	921.62
(4)	879.45
(5)	1018.65
(6)	928.27
(7)	980.20
(8)	971.20
(9)	947.36
(10)	928.60
(11)	947.15
(12)	913.32
(13)	898.86
(14)	672.22
(15)	883.40
(16)	876.56
(17)	908.06
(18)	910.77
(19)	917.95
(20)	853.53

00000010
00000020
00000030
00000040
00000050
00000060
00000070
00000080
00000090
00000100
00000110
00000120
00000130
00000140
00000150
00000160
00000170
00000180
00000190
00000200

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



F-MAP
*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974-1977

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE

3 NUMBER OF VALUE CLASS INTERVALS IS 5

14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT

18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90

0.0 MINUTES FOR INPUT

Figura 17

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974

MAP WINDOW DISPLAYED IS
[20134.818, 12191.695] (TOP-LEFT CORNER)
[34486.036, 32078.316] (BOTTOM-RIGHT CORNER)
MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
MAP SHOULD BE PRINTED AT 8.0 FOWS PER INCH AND 10.0 COLUMNS PER INCH
TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 12191.695) * 0.0078
COLUMN = (ACROSS COORDINATE - 20134.818) * 0.0098
THERE ARE 15 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 838.900 AND 1002.400
MEAN OF VALID DATA IS 926.299
STANDARD DEVIATION OF VALID DATA IS 49.329

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	939.00	4
2)	69	48	2	996.90	4
3)	55	130	3	900.30	4
4)	78	89	4	1002.40	4
5)	63	87	5	981.10	4
6)	54	156	6	884.50	4
7)	88	61	7	NOT USED FOR CALCULATION	3
8)	88	81	8	929.60	3
9)	75	70	9	NOT USED FOR CALCULATION	3
10)	65	145	10	894.20	2
11)	35	90	11	992.30	2
12)	46	146	12	961.40	2
13)	22	113	13	911.90	2
14)	45	168	14	899.90	2
15)	49	177	15	865.20	2
16)	18	114	16	NOT USED FOR CALCULATION	2
17)	73	12	17	NOT USED FOR CALCULATION	2
18)	40	108	18	892.90	2
19)	44	91	19	838.90	2
20)	32	100	20	NOT USED FOR CALCULATION	1

STANDARD SEARCH RADIUS IS 5303.4922
0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1975

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
0.0 MINUTES FOR INPUT

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1974

DATA VALUE EXTREMES ARE 838.90 1002.40

TOTAL MISSING DATA POINTS IS 5

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
(MAXIMUM INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	838.90	871.60	904.30	937.00	969.70
MAXIMUM	871.60	904.30	937.00	969.70	1002.40

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	.....	.....	.....	.....
FREQ.	1:1:1	1:1:1	1:1:1	1:1:1	1:1:1

0.0 MINUTES FOR HISTOGRAM

E-VALUES

DATUM	VALUE
1)	915.20
2)	808.90
3)	902.13
4)	954.03
5)	899.250
6)	894.62
7)	889.32
8)	954.43
9)	861.93
10)	876.80
11)	793.20
12)	886.13
13)	877.22
14)	810.60
15)	739.10
16)	749.43
17)	889.83
18)	929.20
19)	863.63

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

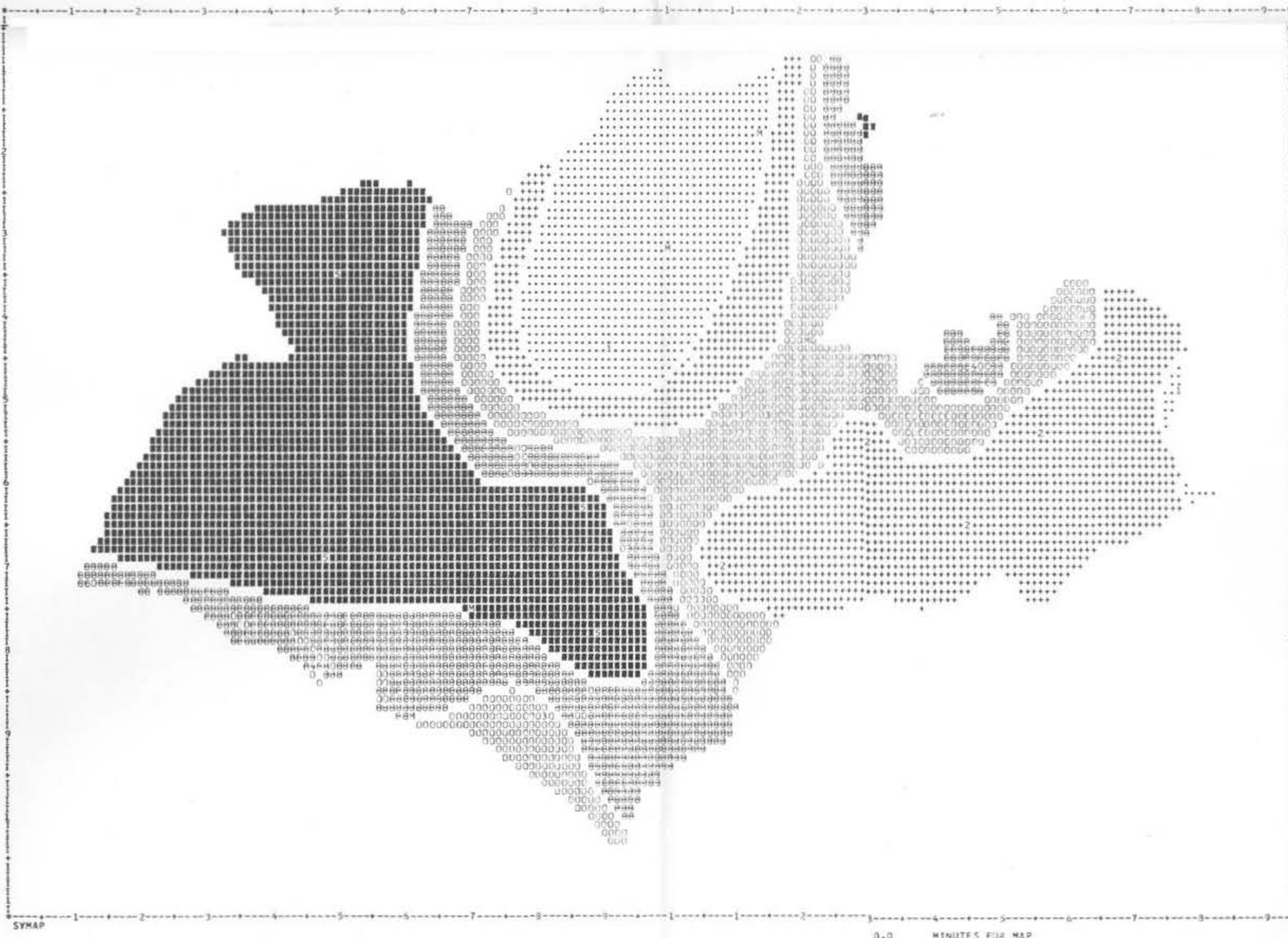


Figura 18

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1975

MAP WINDOW DISPLAYED IS
(20134.918, 12191.695) (TOP-LEFT CORNER)
(34486.086, 32078.316) (BOTTOM-RIGHT CORNER)

MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)

MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH

TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
ROW = (DOWN COORDINATE - 20134.92) * 0.0078
COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098

THERE ARE 20 VALID DATA VALUES

MINIMUM AND MAXIMUM VALID DATA VALUES ARE 663.600 AND 993.000

MEAN OF VALID DATA IS 861.253

STANDARD DEVIATION OF VALID DATA IS 79.701

E-VALUES

DATUM	VALUE	
(1)	1005.60	00000430
(2)	1080.40	00000440
(3)	955.40	00000450
(4)	748.60	00000460
(5)	1023.70	00000470
(6)	977.80	00000480
(7)	973.80	00000490
(8)	1019.20	00000500
(9)	910.60	00000510
(10)	1000.20	00000520
(11)	955.40	00000530
(12)	937.00	00000540
(13)	848.60	00000550
(14)	939.80	00000560
(15)	931.10	00000570
(16)	982.30	00000580
(17)	1007.10	00000590
(18)	932.00	00000600
(19)	1001.60	00000610
(20)	930.60	00000620

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13

DATA POINTS FOR MAP

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	1	915.20	4
2)	69	48	2	993.00	5
3)	52	130	3	808.90	3
4)	78	87	4	902.10	4
5)	63	87	5	954.00	5
6)	54	156	6	895.50	4
7)	88	61	7	940.80	5
8)	38	81	8	889.30	4
9)	75	70	9	934.40	4
10)	65	145	10	861.90	4
11)	35	50	11	876.80	4
12)	46	146	12	793.20	2
13)	52	115	13	847.10	4
14)	46	163	14	877.20	4
15)	49	177	15	810.60	3
16)	18	114	16	739.10	2
17)	43	121	17	749.40	2
18)	70	108	18	889.30	4
19)	44	91	19	826.20	3
20)	32	100	20	663.60	1

STANDARD SEARCH RADIUS IS 4397.4219

0.0 MINUTES FOR INITIAL CALCULATIONS

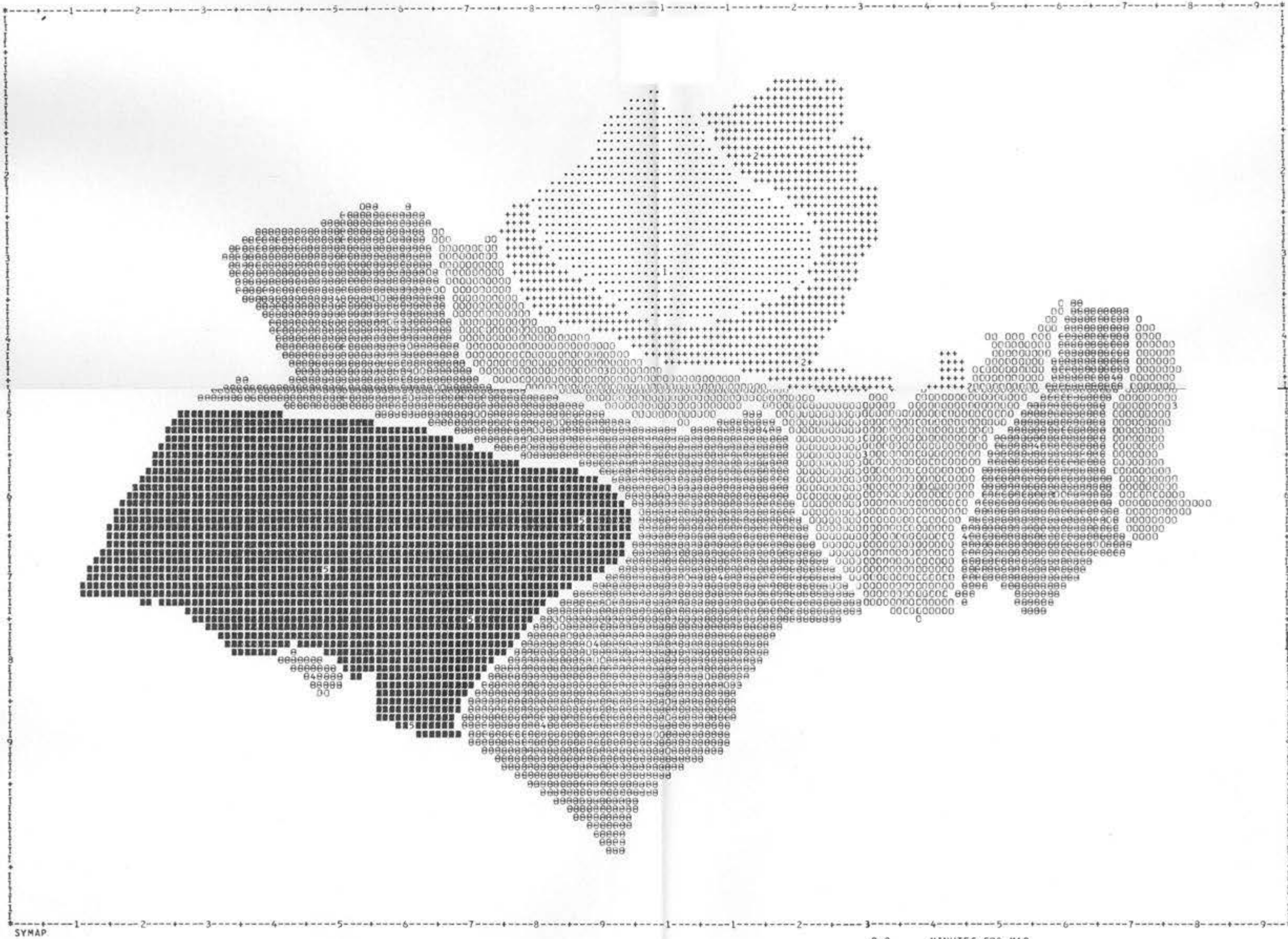
F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1976

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
3 NUMBER OF VALUE CLASS INTERVALS IS 5
14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.99

0.0 MINUTES FOR INPUT



0.0 MINUTES FOR MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1975

DATA VALUE EXTREMES ARE 663.60 993.00

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
('MAXIMUM' INCLUDED IN HIGHEST LEVEL ONLY)

	MINIMUM	663.60	729.48	795.36	861.24	927.12
	MAXIMUM	729.48	795.36	861.24	927.12	993.00

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

LEVEL	1	2	3	4	5
SYMBOLS	.....	++++++	00000000	88888888	88888888
	.....	++++++	00000000	88888888	88888888
	.....	++++++	00000000	88888888	88888888
	.....	++++++	00000000	88888888	88888888
	.....	++++++	00000000	88888888	88888888
FREQ.	1	1	3	9	4
	1	1	1	1	1
	2	1	1	1	1
	3	1	1	1	1
	4	1	1	1	1
	5	1	1	1	1
	6	1	1	1	1
	7	1	1	1	1
	8	1	1	1	1
	9	1	1	1	1

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1976

```

THERE ARE 20 VALID DATA VALUES
MINIMUM AND MAXIMUM VALID DATA VALUES ARE 748.600 AND 1093.700
MEAN OF VALID DATA IS 964.363
STANDARD DEVIATION OF VALID DATA IS 70.008

```

POINT	ROW	COLUMN	STATUS	VALUE	LEVEL
11	82	46	1	1005.60	4
21	69	48	1	1080.40	4
31	75	170	5	955.40	4
41	78	89	4	746.60	1
51	63	37	5	1093.70	5
61	88	155	7	977.80	4
71	88	61	7	975.88	4
81	88	81	9	1019.20	4
91	75	70	8	916.60	3
101	65	145	10	1000.20	4
111	55	60	11	945.60	4
121	46	146	12	937.00	3
131	52	115	13	898.60	3
141	45	168	14	935.10	3
151	49	177	5	931.10	3
161	18	114	16	982.80	4
171	43	121	17	1007.10	3
181	70	108	18	933.60	4
191	44	91	19	1001.60	4
201	32	100	20	930.60	4

STANDARD SEARCH RADIUS IS 4397.4219
0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPPAMENTO - DIOEN/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1977

ELECTIVE

```

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
2 NUMBER OF VALUE CLASS INTERVALS IS 5
3 MAP MARGIN ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
4 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.99

```

E-VALUES

DATUM	VALUE	
1	9999.99	00000640
2	1028.70	00000650
3	1021.70	00000660
4	864.70	00000670
5	1045.80	00000680
6	955.30	00000690
7	1026.00	00000700
8	1046.70	00000710
9	971.10	00000720
10	958.10	00000730
11	964.10	00000740
12	959.70	00000750
13	9999.99	00000760
14	9999.99	00000770
15	926.70	00000780
16	907.80	00000790
17	967.70	00000800
18	728.40	00000810
19	1005.10	00000820
20	966.40	00000830

*VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
EVAPOTRANSPIRACAO REAL - 1976

DATA VALUE	EXTREMES	APR	748.60	1093.70
------------	----------	-----	--------	---------

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
[*MAXIMUM* INCLUDED IN HIGHEST LEVEL ONLY]

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL				
20.00	20.00	20.00	20.00	20.00

FREQUENCY DISTRIBUTION OF DATA POINT VALUES IN EACH LEVEL

[illegible]

Figura 20

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
 EVAPOTRANSPIRACAO REAL - 1977

MAP WINDOW DISPLAYED IS
 (20134.918, 12191.695) (TOP-LEFT CORNER)
 (34486.086, 32078.316) (BOTTOM-RIGHT CORNER)
 MAP SCALE = 0.0010 (INCHES ON OUTPUT MAP)/(UNITS ON SOURCE MAP)
 MAP SHOULD BE PRINTED AT 8.0 ROWS PER INCH AND 10.0 COLUMNS PER INCH
 TRANSFORMATION FROM SOURCE COORDINATES TO PRINT CHARACTER LOCATION IS
 ROW = (DOWN COORDINATE - 20134.92) * 0.0078
 COLUMN = (ACROSS COORDINATE - 12191.70) * 0.0098
 THERE ARE 17 VALID DATA VALUES
 MINIMUM AND MAXIMUM VALID DATA VALUES ARE 864.700 AND 1046.700
 MEAN OF VALID DATA IS 973.157
 STANDARD DEVIATION OF VALID DATA IS 49.124

POINT	ROW	COLUMN	DATUM	VALUE	LEVEL
1)	82	46	NOT USED FOR CALCULATION		
2)	82	48	1028.20		5
3)	82	138	1021.90		5
4)	78	89	864.70		1
5)	63	87	1045.80		5
6)	54	156	955.30		3
7)	88	61	1026.00		5
8)	88	81	1046.70		5
9)	75	70	971.10		3
10)	65	145	958.10		3
11)	35	50	964.10		3
12)	46	146	959.70		3
13)	23	115	NOT USED FOR CALCULATION		
14)	43	168	NOT USED FOR CALCULATION		
15)	49	177	926.70		2
16)	18	114	907.80		2
17)	43	121	967.70		2
18)	70	108	928.40		2
19)	44	91	1005.10		2
20)	32	100	966.40		3

STANDARD SEARCH RADIUS IS 4878.5039
 0.0 MINUTES FOR INITIAL CALCULATIONS

F-MAP

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***

ALTURAS DE CHUVAS 1974

ELECTIVE

1 MAP DIMENSIONS ARE 14.00 INCHES LONG BY 19.40 INCHES WIDE
 3 NUMBER OF VALUE CLASS INTERVALS IS 5
 14 MAP MARGINS ARE 1.00 AT TOP, 1.00 AT LEFT, 1.00 AT BOTTOM, AND 1.00 AT RIGHT
 18 INVALIDATED MISSING DATA VALUES ARE EQUAL TO 9999.90
 0.0 MINUTES FOR INPUT

*** SISTEMA AUTOMATICO DE MAPEAMENTO - DIDEM/SUEGE ***
 EVAPOTRANSPIRACAO REAL - 1977

DATA VALUE EXTREMES ARE 864.70 1046.70

TOTAL MISSING DATA POINTS IS 3

ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL
 ("MAXIMUM" INCLUDED IN HIGHEST LEVEL ONLY)

MINIMUM	864.70	901.10	937.50	973.90	1010.30	1046.70
MAXIMUM	901.10	937.50	973.90	1010.30	1046.70	

PERCENTAGE OF TOTAL ABSOLUTE VALUE RANGE APPLYING TO EACH LEVEL

20.00	20.00	20.00	20.00	20.00
-------	-------	-------	-------	-------

FREQ.	1	2	3	4	5
1	1	1	1	1	1
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	1	1	1
5	1	1	1	1	1
6	1	1	1	1	1
7	1	1	1	1	1

E-VALUES

DATUM	VALUE	
1)	1632.50	00000850
2)	1762.50	00000860
3)	1465.60	00000870
4)	1638.40	00000880
5)	1781.60	00000890
6)	1281.20	00000900
7)	9999.90	00000910
8)	1974.30	00000920
9)	9999.90	00000930
10)	1513.00	00000940
11)	1826.10	00000950
12)	2014.40	00000960
13)	1932.80	00000970
14)	1524.00	00000980
15)	1274.70	00000990
16)	9999.90	00001000
17)	9999.90	00001010
18)	1668.30	00001020
19)	1605.00	00001030
20)	9999.90	00001040

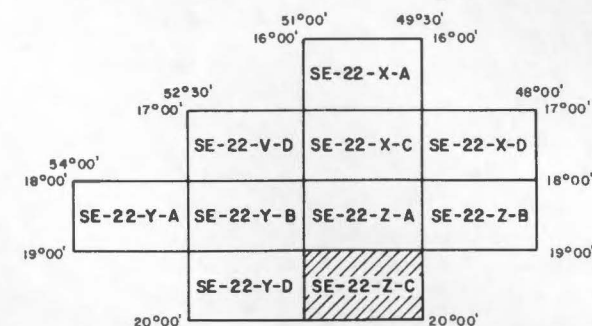
VALU * PACKAGE DATA INPUT FROM I/O UNIT 13



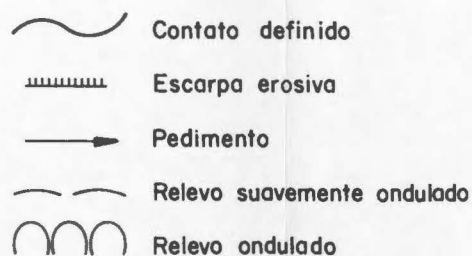
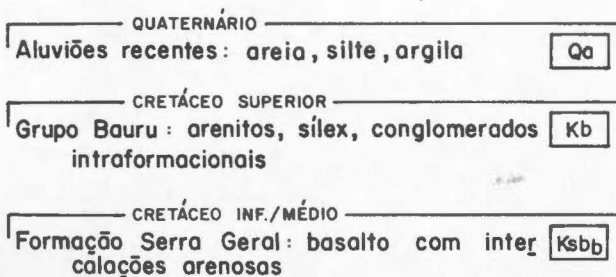
MAPA GEOMORFOLÓGICO



ARTICULAÇÃO DA FOLHA



ESCALA



Mapa elaborado com base em interpretação de mosaicos semi controlados, imagem radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

Autor: VALTER JESUS DE ALMEIDA
WILSON DUQUE ESTRADA REGIS

Projeto Cerrado II-Convênio IBGE-EMBRAPA

MAPA GEOMORFOLÓGICO



QUATERNÁRIO
Aluviões recentes: areia, silte, argila [Qa]

CRETÁCIO INF./MÉDIO
Formação Serra Geral: basaltos com intercalações arenosas [Kabb]

PRÉ-CAMBRIANO MÉDIO/SUPERIOR
Grupo Araçuaí e Rochas Intrusivas: micaístos, quartzitos, talcoxiolitos, calcário, granitos, diámitos, grano-dioritos [Peb]

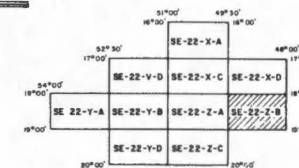
PRÉ-CAMBRIANO INF./MÉDIO
Complexo Basal: biotita gnaisse, anfibolitos, granitos, leptinitos [Peb]

Autor: WILSON DUQUE ESTRADA REGIS

- Contato definido
- Contato aproximado
- Falha transcorrente
- Falha normal
- Falha provável
- Falha de empurrão
- Escarpa erosiva
- Pedimento
- Relevo residual
- Relevo plano
- Relevo suavemente ondulado
- Relevo ondulado

ESCALA
0 5 10 15 20 km

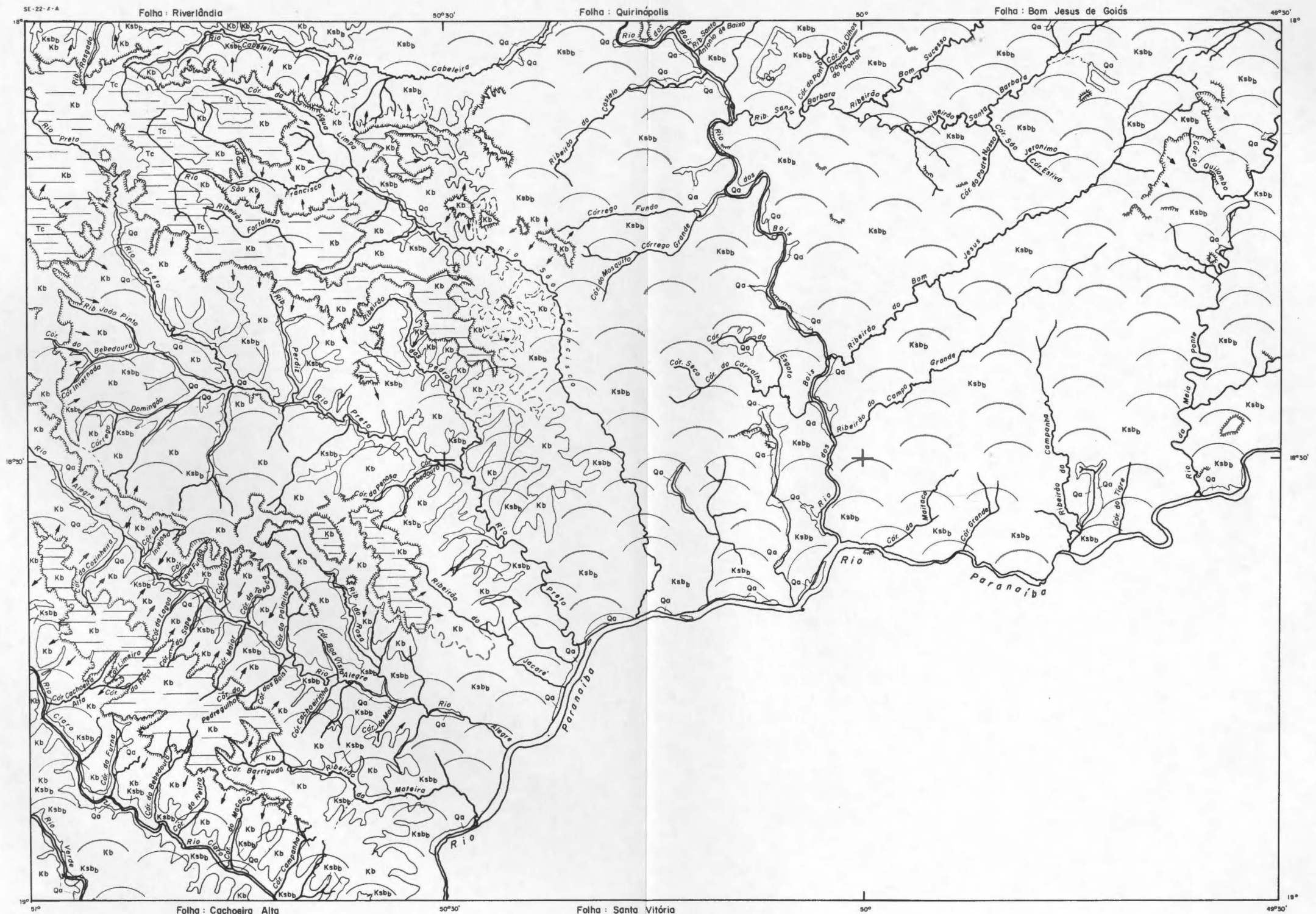
ARTICULAÇÃO DA FOLHA



Mapa elaborado com base em interpretação de montagens aéreas, fotografias aéreas, cartas geológicas de 1:250.000, mapas geológicos de 1:50.000 e trabalhos de campo.

Projeto Corredor II - Camêlis IBGE - EMBRAPA

MAPA GEOMORFOLÓGICO



Aluviões recentes: areia, silte, argila Qa

Formação Cachoeirinha: sedimentos argilo-arenosos, limonita Tc

Grupo Bauru: arenitos, sílex, conglomerados intraformacionais Kb

CRETÁCEO INF./MÉDIO
Formação Serra Geral: basaltos com inter
calações arenosas Kabb

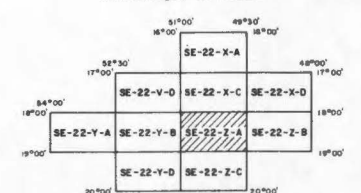
	Contato definido
	Contato aproximado
	Escarpa erosiva
	Pedimento
	Relevo residual
	Relevo plano
	Relevo suavemente ondulado
	Relevo ondulado

ESCALA



Mapa elaborado com base em interpretação de mosaicos semi controlados, imagem radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

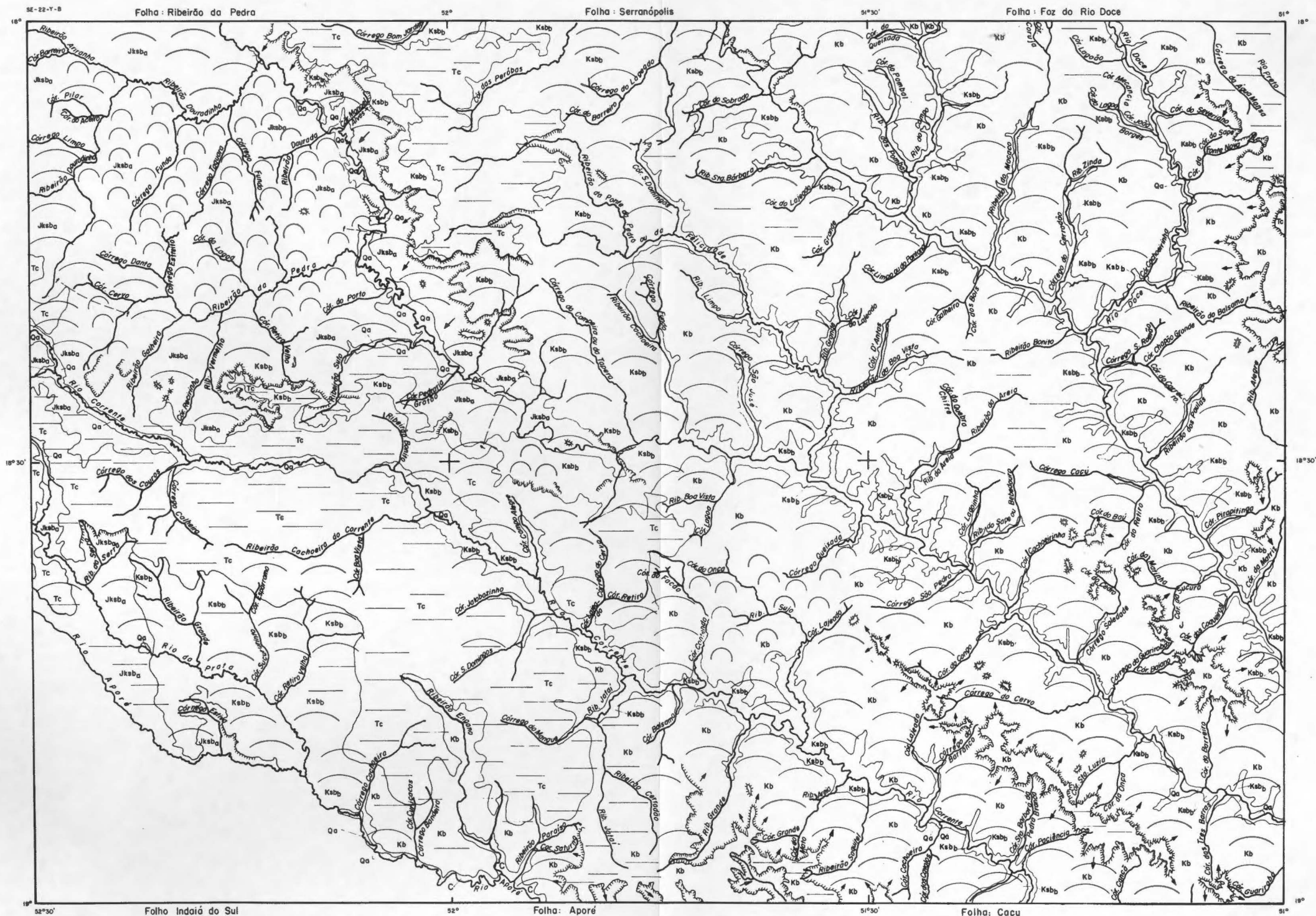
ARTICULAÇÃO DA FOLHA



Autor: VALTER JESUS DE ALMEIDA

Projeto Cerrado II - Convênio IBGE - EMBRAPA

MAPA GEOMORFOLÓGICO



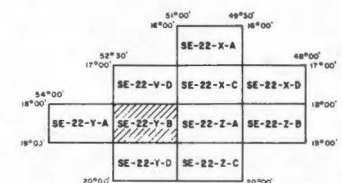
- QUATERNÁRIO**
Aluviões recentes: areia, silte, argila (Qa)
- TERCIÁRIO**
Formação Cachoeirinha: sedimentos argilo-arenosos, ilmonita (Tc)
- CRETÁCIO SUPERIOR**
Grupo Bauru: arenitos, siltes, conglomerados intraformacionais (Kb)
- CRETÁCIO INF/MÉDIO**
Formação Serra Geral: basaltos com intercalações arenosas (Kbb)
- JURÔ/CRETÁCIO**
Formação Botucatu: arenitos, edílicos (Jbb)

- Contato definido
- Contato aproximado
- Folha provável
- Escarpa erosiva
- Pedimento
- Relevo residual
- Relevo plano
- Relevo suavemente ondulado
- Relevo ondulado

ESCALA

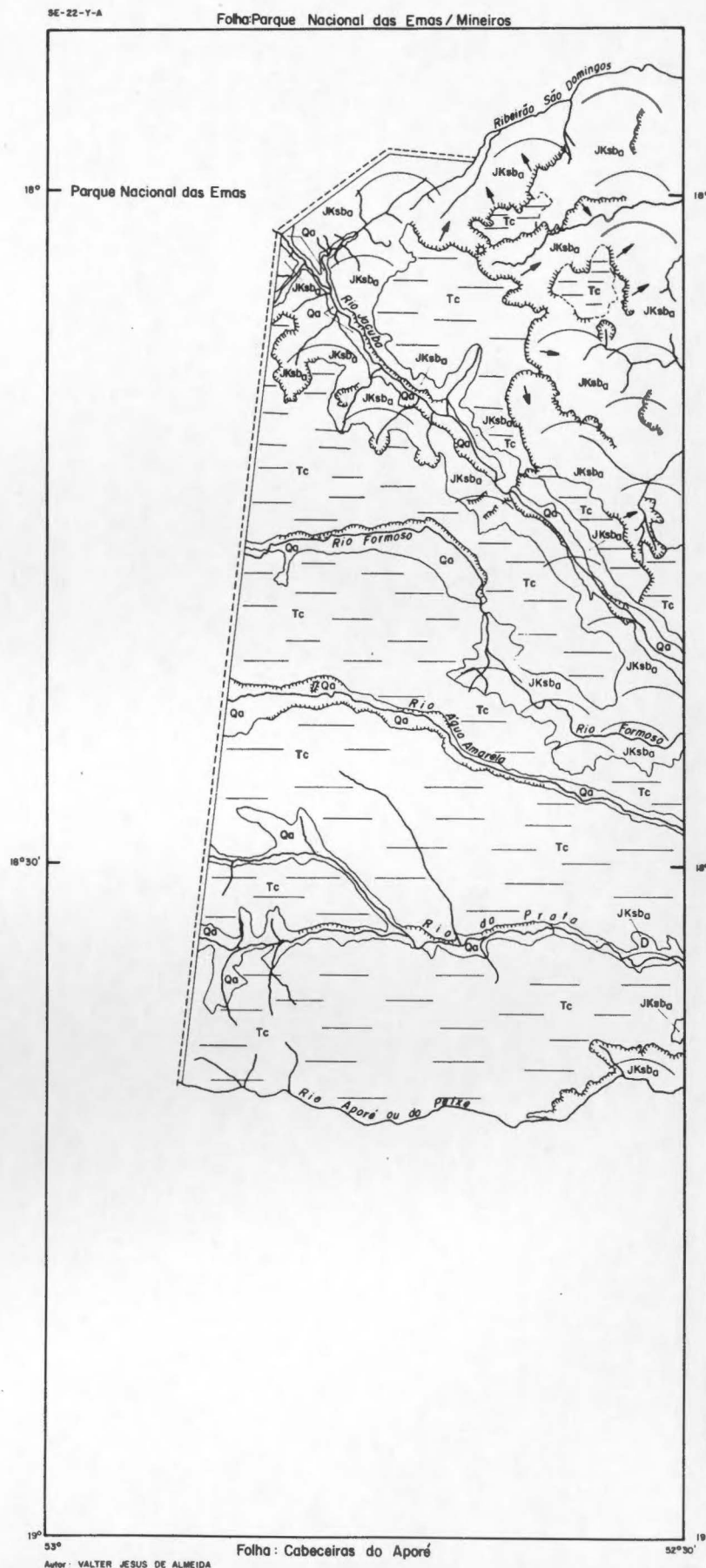
0 5 10 15 20 km

ARTICULAÇÃO DA FOLHA



Mapa elaborado com base em interpretação de fotografias aéreas, imagens de satélite e dados de campo. Escala 1:250.000, mapas geológicos do DNPM e trabalho de campo.

MAPA GEOMORFOLÓGICO



QUATERNÁRIO

Aluviões recentes: areia, silte, argila [Qa]

TERCIÁRIO

Formação Cachoeirinha: sedimentos argilo-arenosos, limonita [Tc]

CRETÁCEO INF / MÉDIO

Grupo São Bento Formação Botucatu: arg. nítidos, edáficos [JKsba]

Contato definido

Contato aproximado

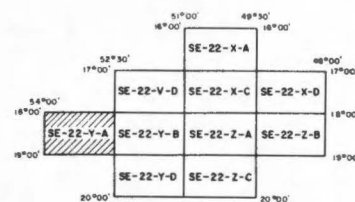
Escarpa erosiva

Relevo residual

Relevo plano

Relevo suavemente ondulado

ARTICULAÇÃO DA FOLHA

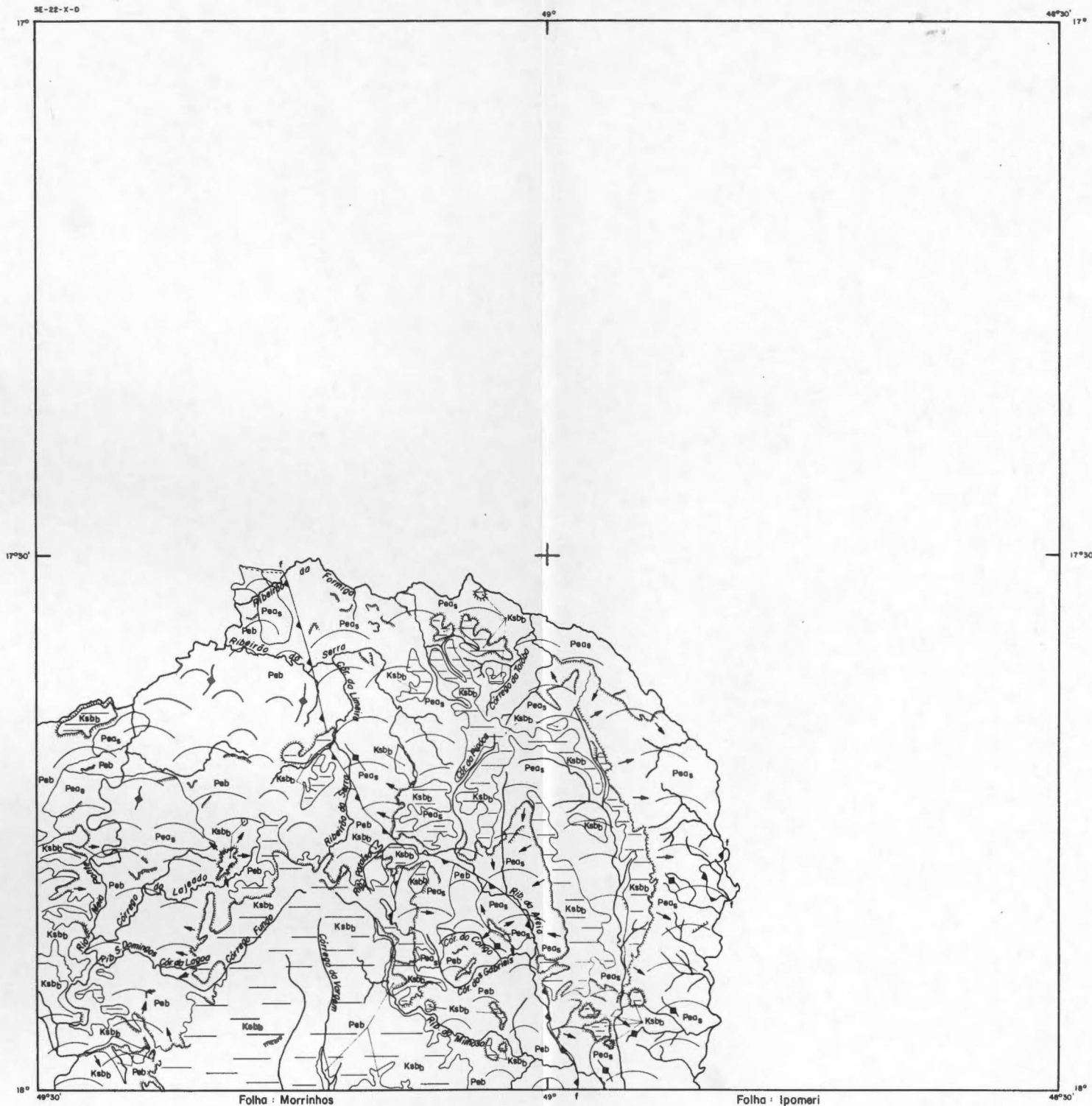


ESCALA



Mapa elaborado com base em interpretação de mosaicos sem contradição, imagem radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

MAPA GEOMORFOLÓGICO



CARBÔNIFERO
Formação Serra Geral: basalto com intercalações arenosas [Kabb]

PRÉ-CAMBRIANO INF./MÉDIO
Grupo Araxá e Rochas Intrusivas: micaxistos, quartzitos, talcoxistos, calcário, granitos, dunitos, granodioritos [Peas]

CRETÁCEO INF./MÉDIO
Complexo Basal: biotita gnaiss, anfíbolitos, granitos leptinitos [Peb]

Autor: VALTER JESUS DE ALMEIDA

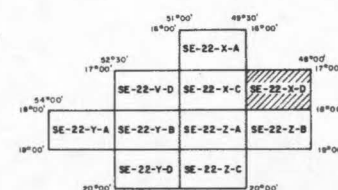
- Contato definido
- Falha de empurrão
- Crista
- Pedimento
- Relevo residual
- Relevo plano
- Relevo suavemente ondulado
- Relevo ondulado
- Escarpa erosiva

0 5 10 15 20 km

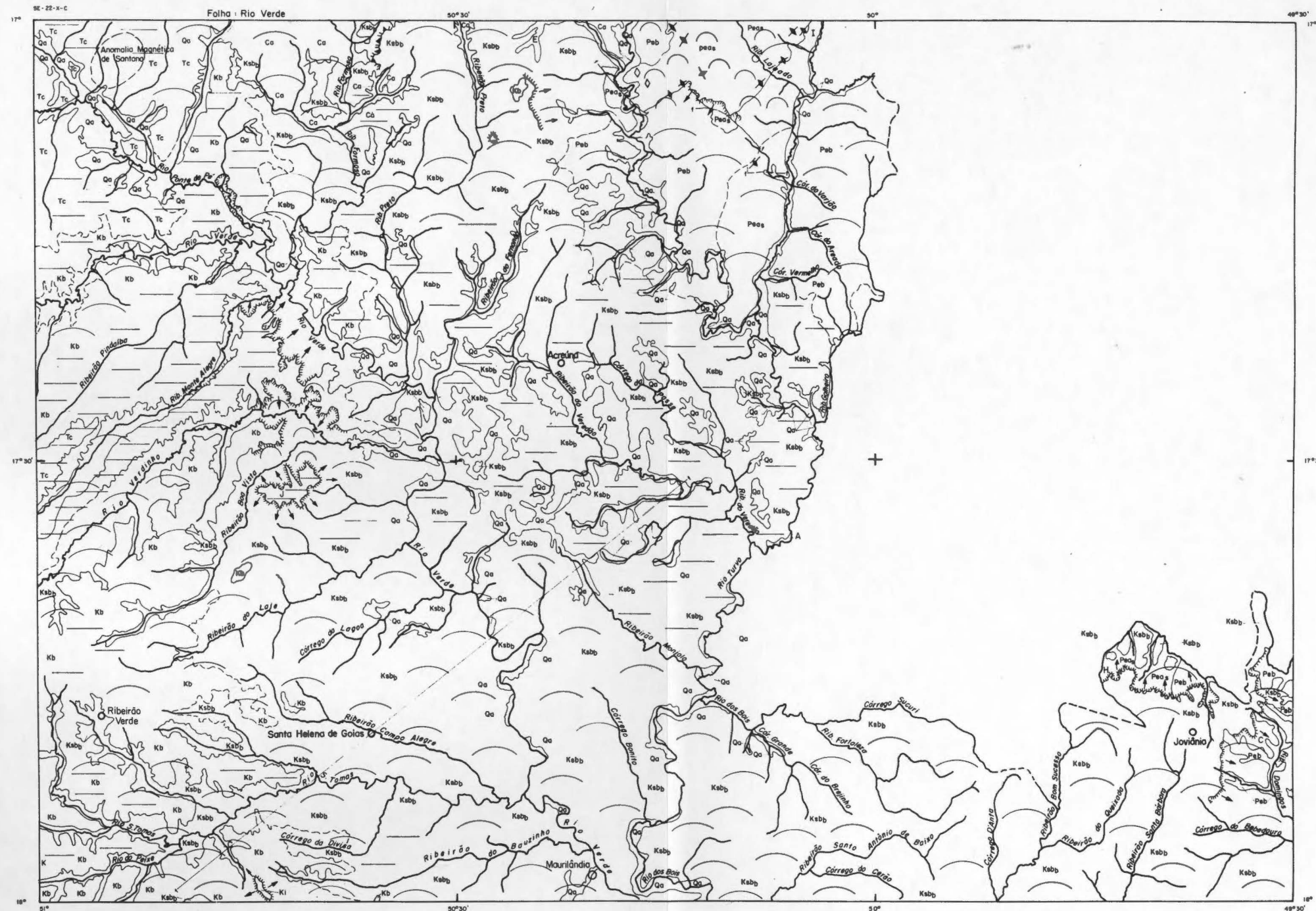
Mapa elaborado com base em interpretação de mosaicos aéreo controlados, imagens radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

Projeto Cerrado II-Comunidade IBGE-EMBRAPA

ARTICULAÇÃO DA FOLHA

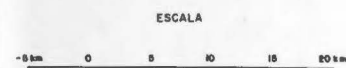


MAPA GEOMORFOLÓGICO



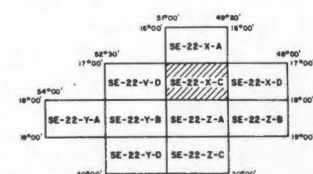
QUATERNÁRIO	
Aluviões recentes: areia, silte, argila	Qa
TERCIÁRIO	
Formação Cachoeirinha: sedimentos argilo-arenosos, limonite	Tc
CRETÁCIO SUPERIOR	
Grupo Bauru: arenitos, siltes, conglomerados intraformacionais	Kb
CRETÁCIO inf./med.	
Grupo Iporá: gessos, dunitos, sienitos	Kab
CAMBRIANO	
Formação Serra Geral: basaltos com intercalações arenosas	Ca
PRÉ-CAMBRIANO MÉDIO/SUP.	
Grupo Aquidauana: arenitos, gilitos, folhelhos, diamicritos, conglomerado basal	Peb
PRÉ-CAMBRIANO inf./med.	
Grupo Araxá e Rochas Intrusivas: micaxistos, quartzitos, talcozitos, calcários, granitos, dunitos, granodioritos	Peb
CRETÁCIO inf./med.	
Complexo Basal: biotita gnaisses, anfibolitos, granitos leptinitos	KI

Contato definido	—
Contato aproximado	- - -
Falha normal	—|—
Falha provável	- -|—
Escarpa erosiva	|||||
Cuesta	▲▲▲▲
Crista	+
Inselberg	○
Pedimento	→
Relevo residual	○
Relevo plano	—
Relevo suavemente ondulado	—
Relevo ondulado	—

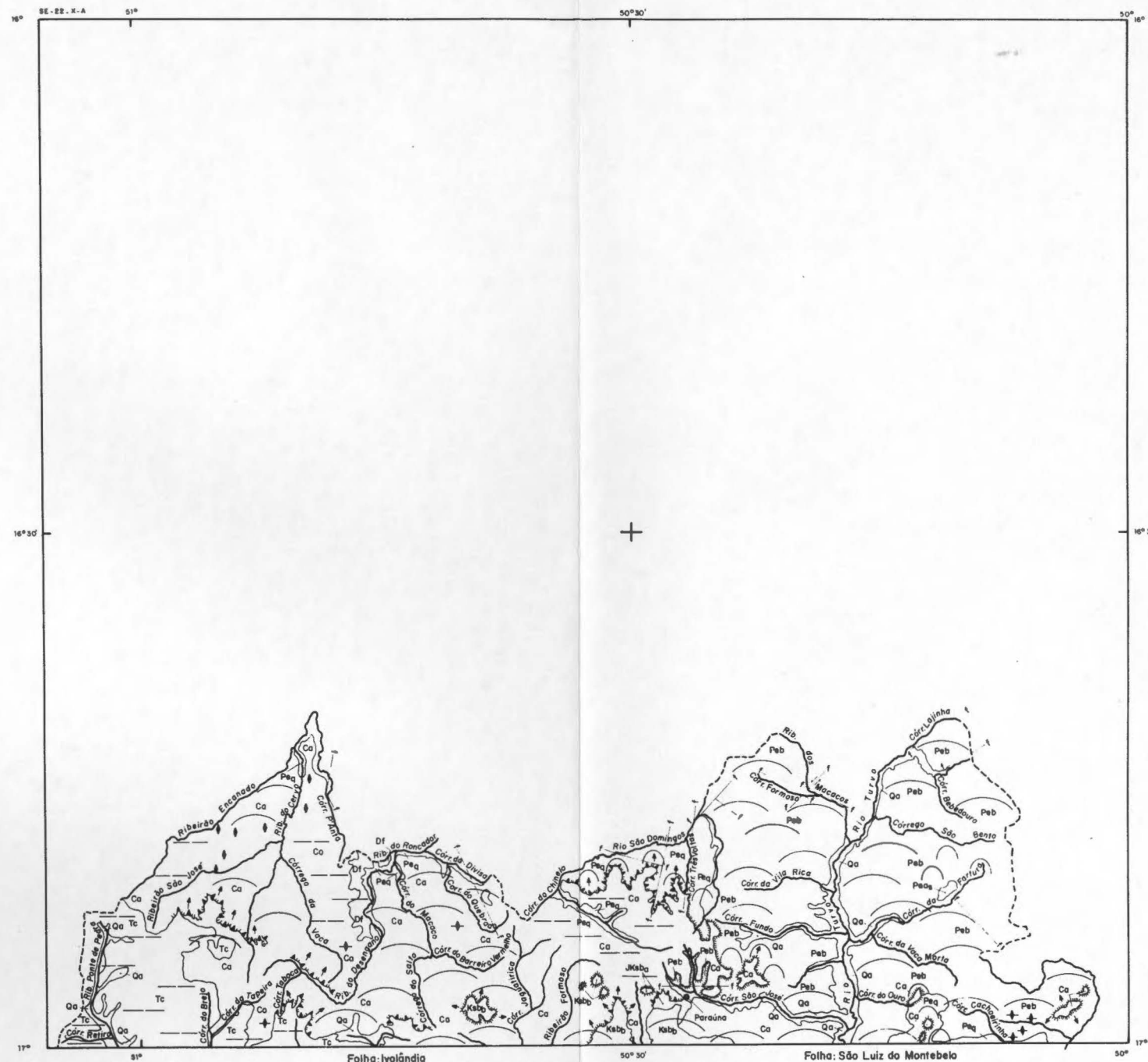


Mapa elaborado com base em interpretação de imagens com contornos, imagem radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

ARTICULAÇÃO DA FOLHA



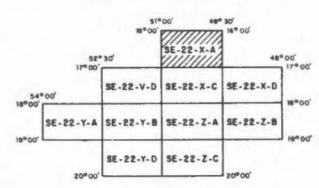
MAPA GEOMORFOLÓGICO



- | | |
|---|-----|
| QUATERNÁRIO | |
| Aluviões recentes: areia, silte, argila | Qa |
| TERCIÁRIO | |
| Formação Cachoeirinha: sedimentos argilo-arenosos, ilmonite | Tc |
| CRETÁCIO INF./MÉDIO | |
| Formação Serra Geral: basaltos com intercalações arenosas | Rsb |
| JURÔ/CRETÁCIO | |
| Formação Botucatu: arenitos eólicos | Kb |
| CARBONÍFERO | |
| Grupo Aquidauana: arenitos, siltilitos, folhelhos, diamictitos, conglomerado basal | Ca |
| DEVONIANO | |
| Formação Furnas: arenitos grosseiros, arenitos conglomerados | Df |
| PRÉ-CAMBRIANO MÉDIO/SUPERIOR | |
| Grupo Araxá e Rochas Intrusivas: micaxistos, quartzitos, talcoxistos, calcário, granitos, dioritos, granodioritos | Pag |
| Rochas intrusivas: granitos, dioritos, granodioritos | Pas |
| PRÉ-CAMBRIANO INF./MÉDIO | |
| Complexo Basal: biotita gnaisse, anfibolitos, granitos leptinitos | Peb |

- | | |
|--|----------------------------|
| | Contato definido |
| | Contato aproximado |
| | Falha transcorrente |
| | Falha normal |
| | Falha provável |
| | Escarpa erosiva |
| | Cuesta |
| | Inselberg |
| | Crista |
| | Pedimento |
| | Relevo residual |
| | Relevo plano |
| | Relevo suavemente ondulado |
| | Relevo ondulado |

ARTICULAÇÃO DA FOLHA

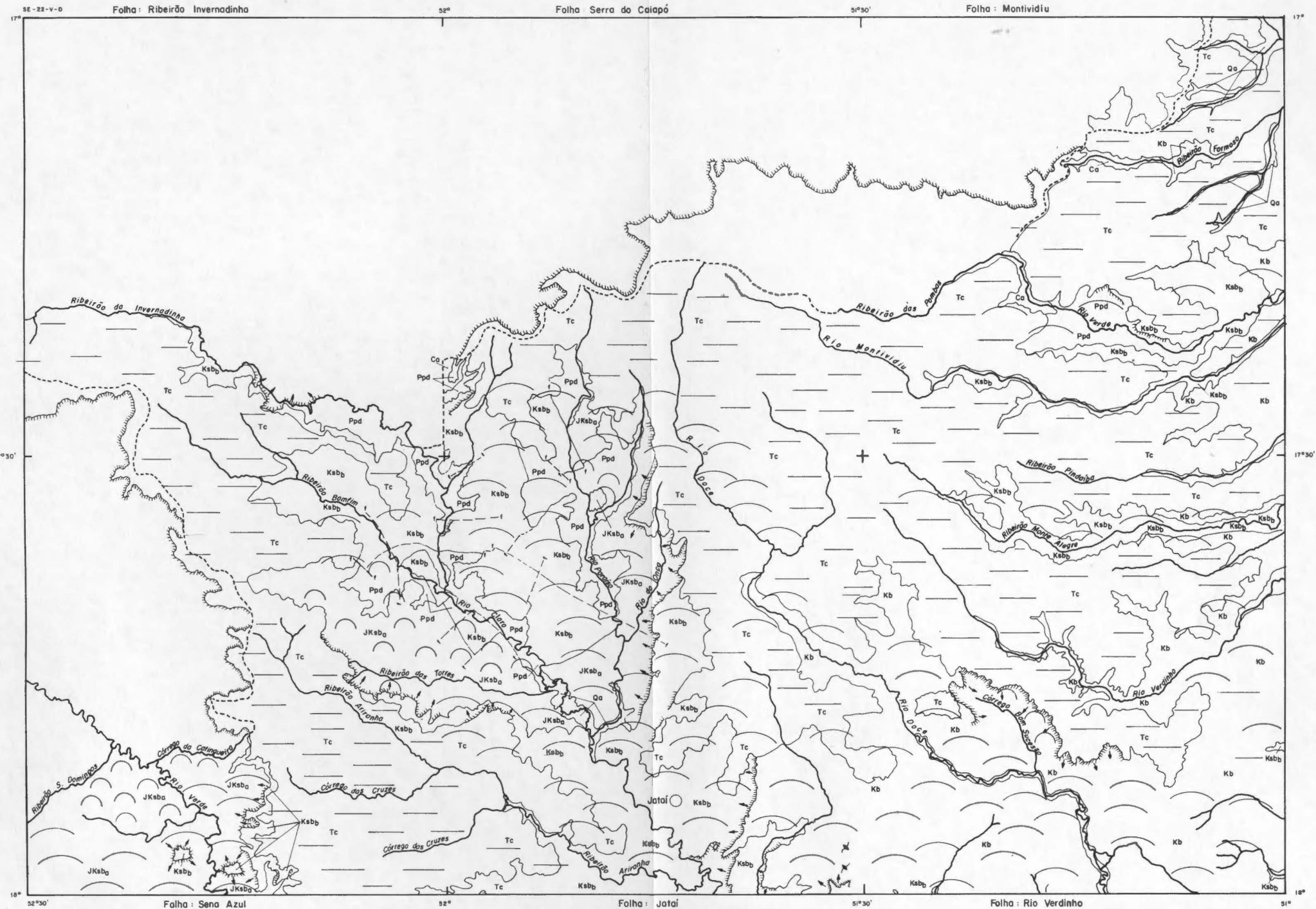


Mapa elaborado com base em interpretação de aereofotogrametria, imagens aéreas na escala 1:250.000, mapas geológicos da DNPM e trabalhos de campo.

ESCALA



MAPA GEOMORFOLÓGICO



- QUATERNÁRIO**
Aluviões recentes: areia, silte, argila [Qe]
- TERCIÁRIO**
Formação Cachoeirinha: sedimentos argilo-arenosos, limonita [Tc]
- CRETÁCIO SUPERIOR**
Grupo Bauru: arenitos, siltes, conglomerados intraformacionais [Kb]
- CRETÁCIO, INF. MÉDIO**
Formação Serra Geral: basaltos com intercalações arenosas [Ksb]
- JURO/CRETÁCIO**
Formação Botucatu: arenitos, edículas [Ksb]
- PERMIANO**
Série Passa Dois: calcários, folhelhos, siltitos [Ppd]
- CARBÔNIFERO**
Grupo Aquidauana: arenitos, siltes, folhelhos diamitíticos, conglomerado basal [Ca]

- Contato definido
- Contato aproximado
- Falha normal
- Falha provável
- Escarpa erosiva
- Crista
- Pedimento
- Relevo residual
- Relevo plano
- Relevo suavemente ondulado
- Relevo ondulado

ESCALA



Mapa elaborado com base na interpretação de mosaicos de imagens de satélite, imagens de radar na escala 1:250 000, mapas geológicos do DNPM e trabalho de campo.

ARTICULAÇÃO DA FOLHA

