

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Catalog of available clear mylar templates used to
determine latitude and longitude of sample localities
between the latitudes of 51°00' and 71°30'00"
at the scale of 1:63,360, and between the latitude of
49°00'00" and 71°30'00" N. or S. at the scale of 1:250,000.

By

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This report is preliminary and has not been edited or reviewed
for conformity with U.S. Geological Survey standards.

ABSTRACT

The present use of electro-mechanical plotting of sample points can give rise to location errors, particularly when map scale changes are involved, unless careful control is maintained. The following catalog of computer-generated mylar templates, with plots of latitude and longitude (longitudes equidistant north to south), sufficient to cover the latitudes between 49°00'00" and 71°30'00" N. or S., will help facilitate the plotting of points when there is a map scale change for two different map scales (1:63,360 and 1:250,000). Using the template overlays (available as individual page numbers in Open-File Report 82-724--xerographic clear film overlays from U.S. Geological Survey Open-File Services Section, Branch of Distribution, USGS, Box 25425, Denver, Colorado 80225, telephone (303) 234-5888), the point plotted on a composite final copy may be checked against field maps and notes when only degrees latitude and longitude are given.

INTRODUCTION

Electro-mechanical plotting of sample locations may give rise to location errors, particularly when a change in map scale is involved. This potential source of error is reduced if a scale-stable overlay is available. It is now possible to have any map scale template generated within minutes, using a computer program, which was modified by George VanTrump (D. Plouff, and others, written commun., 1978) with the aid of a plotter. This is a catalog of available templates generated to cover continuous latitudes north or south starting at 49°00' through 71°30' at 1:250,000 and 51°00' to 71°30' at 1:63,360 map scales to supplement the mylar templates in USGS Open-File Report 82-724. These templates are available as single page, clear xerographic reproductions from the U.S. Geological Survey Open-File Services Section.

DISCUSSION

The mylar templates cover from lat 51°00'00" to 71°30'00" N. or S. at a scale of 1:63,360 to lat 49°00'00" to 71° 30'00" N. or S. at 1:250,000 map scale. The latitudes selected are such that all points on the templates are within 1 percent of true position. That is, all points should be able to be plotted within 1 to 5 seconds of a given location, depending on the scale used.

To use the templates, select the template with the latitude closest to that which you are using at the appropriate scale.

The following is a list of templates available in Open-File Report 81-747.

REFERENCES CITED

Campbell, W. L., and VanTrump, George, Jr., 1981, Clear mylar templates used to measure latitude and longitude of sample localities at scales of 1:24,000, 1:62,500, 1:100,000, and 1:250,000: U.S. Geological Survey Open-File Report 81-747.

AVAILABLE TRANSPARENT OVERLAYS
7'30" x 10'00" mylars at 1:63,360 scale

<u>Latitude</u>	<u>Page</u>	<u>Latitude</u>	<u>Page</u>
51°00'00"	5	57°00'00"	53
51°07'30"	6	57°07'30"	54
51 15 00	7	57 15 00	55
51 22 30	8	57 22 30	56
51 30 00	9	57 30 00	57
51 37 30	10	57 37 30	58
51 45 00	11	57 45 00	59
51 52 30	12	57 52 30	60
52 00 00	13	58 00 00	61
52 07 30	14	58 07 30	62
52 15 00	15	58 15 00	63
52 22 30	16	58 22 30	64
52 30 00	17	58 30 00	65
52 37 30	18	58 37 30	66
52 45 00	19	58 45 00	67
52 52 30	20	58 52 30	68
53 00 00	21	59 00 00	69
53 07 30	22	59 07 30	70
53 15 00	23	59 15 00	71
53 22 30	24	59 22 30	72
53 30 00	25	59 30 00	73
53 37 30	26	59 37 30	74
53 45 00	27	59 45 00	75
53 52 30	28	59 52 30	76
54 00 00	29	60 00 00	77
54 07 30	30	60 07 30	78
54 15 00	31	60 15 00	79
54 22 30	32	60 22 30	80
54 30 00	33	60 30 00	81
54 37 30	34	60 37 30	82
54 45 00	35	60 45 00	83
54 52 30	36	60 52 30	84
55 00 00	37	61 00 00	85
55 07 30	38	61 07 30	86
55 15 00	39	61 15 00	87
55 22 30	40	61 22 30	88
55 30 00	41	61 30 00	89
55 37 30	42	61 37 00	90
55 45 00	43	61 45 00	91
55 52 30	44	61 52 30	92
56 00 00	45	62 00 00	93
56 07 30	46	62 07 30	94
56 15 00	47	62 15 00	95
56 22 30	48	62 22 30	96
56 30 00	49	62 30 00	97
56 37 30	50	62 37 30	98
56 45 00	51	62 45 00	99
56 52 30	52	62 52 30	100

AVAILABLE TRANSPARENT OVERLAYS
7'30" X 10'00" mylars at 1:63,360 scale--Continued

<u>Latitude</u>	<u>Page</u>	<u>Latitude</u>	<u>Page</u>
63°00'00"	101	68°22'30"	144
63 07 30	102	68 30 00	145
63 15 00	103	68 37 30	146
63 22 30	104	68 45 00	147
63 30 00	105	68 52 30	148
63 37 30	106	69 00 00	149
63 45 00	107	69 07 30	150
63 52 30	108	69 15 00	151
64 00 00	109	69 22 30	152
64 07 30	110	69 30 00	153
64 15 00	111	69 37 30	154
64 22 30	112	69 45 00	155
64 30 00	113	69 52 30	156
64 37 30	114	70 00 00	157
64 45 00	115	70 07 30	158
64 52 30	116	70 15 00	159
65 00 00	117	70 22 30	160
65 07 30	118	70 30 00	161
65 15 00	119	70 37 30	162
65 22 30	120	70 45 00	163
65 30 00	121	70 52 30	164
65 37 00	122	71 00 00	165
65 45 00	123	71 07 30	166
65 52 30	124	71 15 00	167
66 00 00	125	71 22 30	168
66 07 30	126	71 30 00	169
66 15 00	127		
66 22 30	128		
66 30 00	129		
66 37 30	130		
66 45 00	131		
66 52 30	132		
67 00 00	133		
67 07 30	134		
67 15 00	135		
67 22 30	136		
67 30 00	137		
67 37 30	138		
67 45 00	139		
67 52 30	140		
68 00 00	141		
68 07 30	142		
68 15 00	143		

AVAILABLE TRANSPARENT OVERLAYS
42 mylars at 1:250,000 scale

<u>Latitude</u>	<u>Page</u>	<u>Latitude</u>	<u>Page</u>
49°00'	170	60°30'00"	193
49 30	171	61 00 00	194
50 00	172	61 30 00	195
50 30	173	62 00 00	196
51 00 00	174	62 30 00	197
51 30 00	175	63 00 00	198
52 00 00	176	63 30 00	199
52 30 00	177	64 00 00	200
53 00 00	178	64 30 00	201
53 30 00	179	65 00 00	202
54 00 00	180	65 30 00	203
54 30 00	181	66 00 00	204
55 00 00	182	66 30 00	205
55 30 00	183	67 00 00	206
56 00 00	184	67 30 00	207
56 30 00	185	68 00 00	208
57 00 00	186	68 30 00	209
57 30 00	187	69 00 00	210
58 00 00	188	69 30 00	211
58 30 00	189	70 00 00	212
59 00 00	190	70 30 00	213
59 30 00	191	71 00 00	214
60 00 00	192		