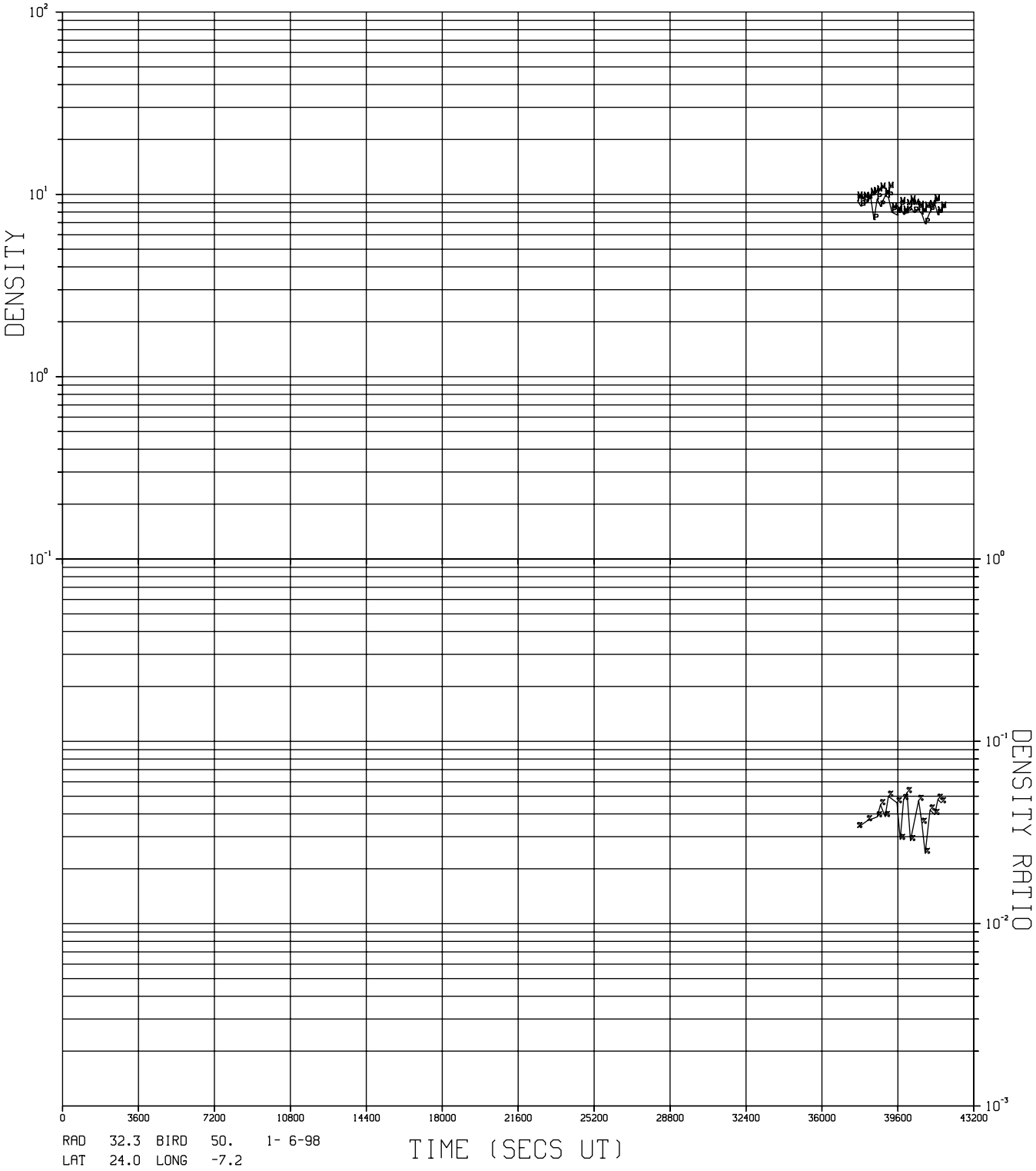
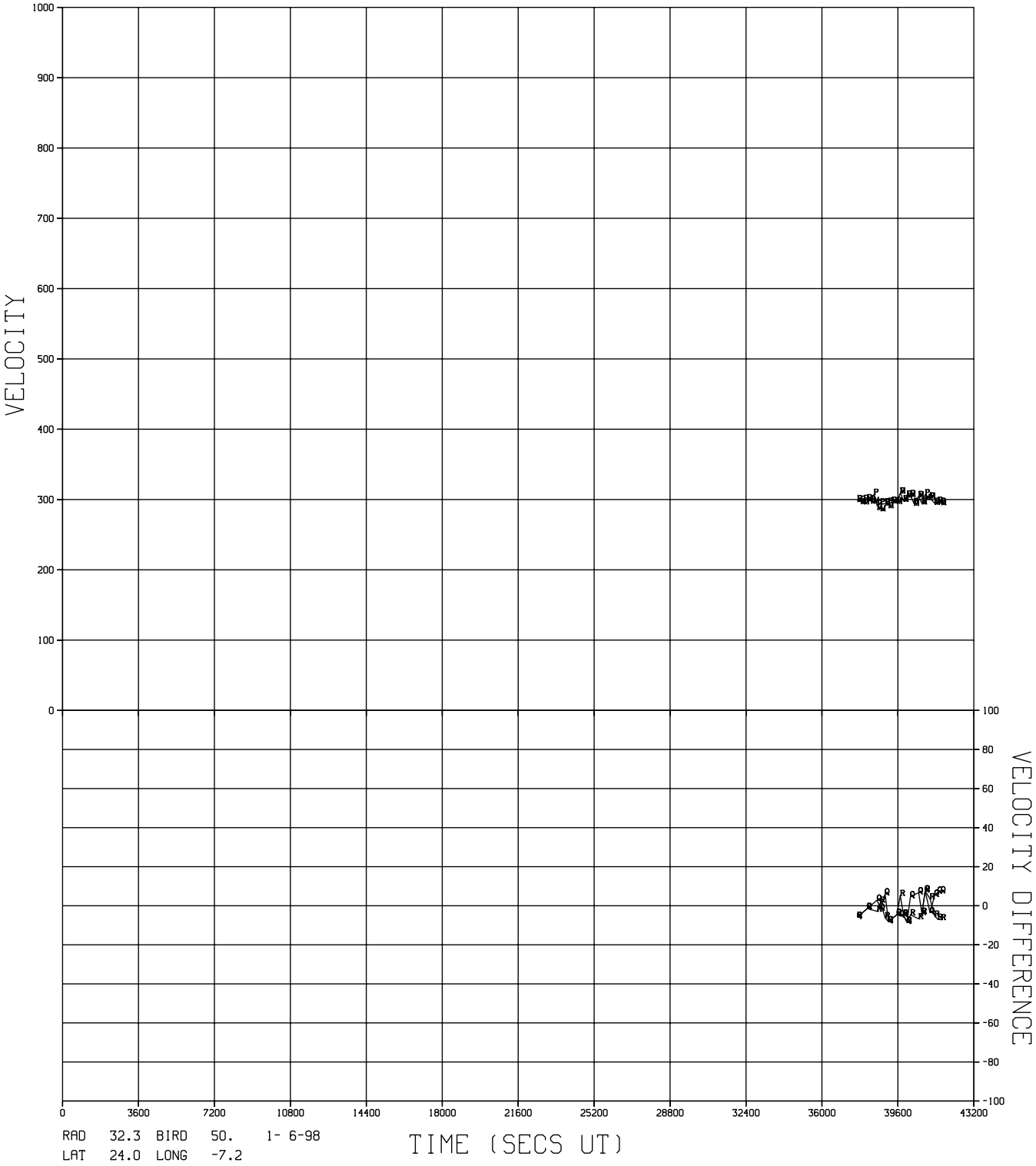
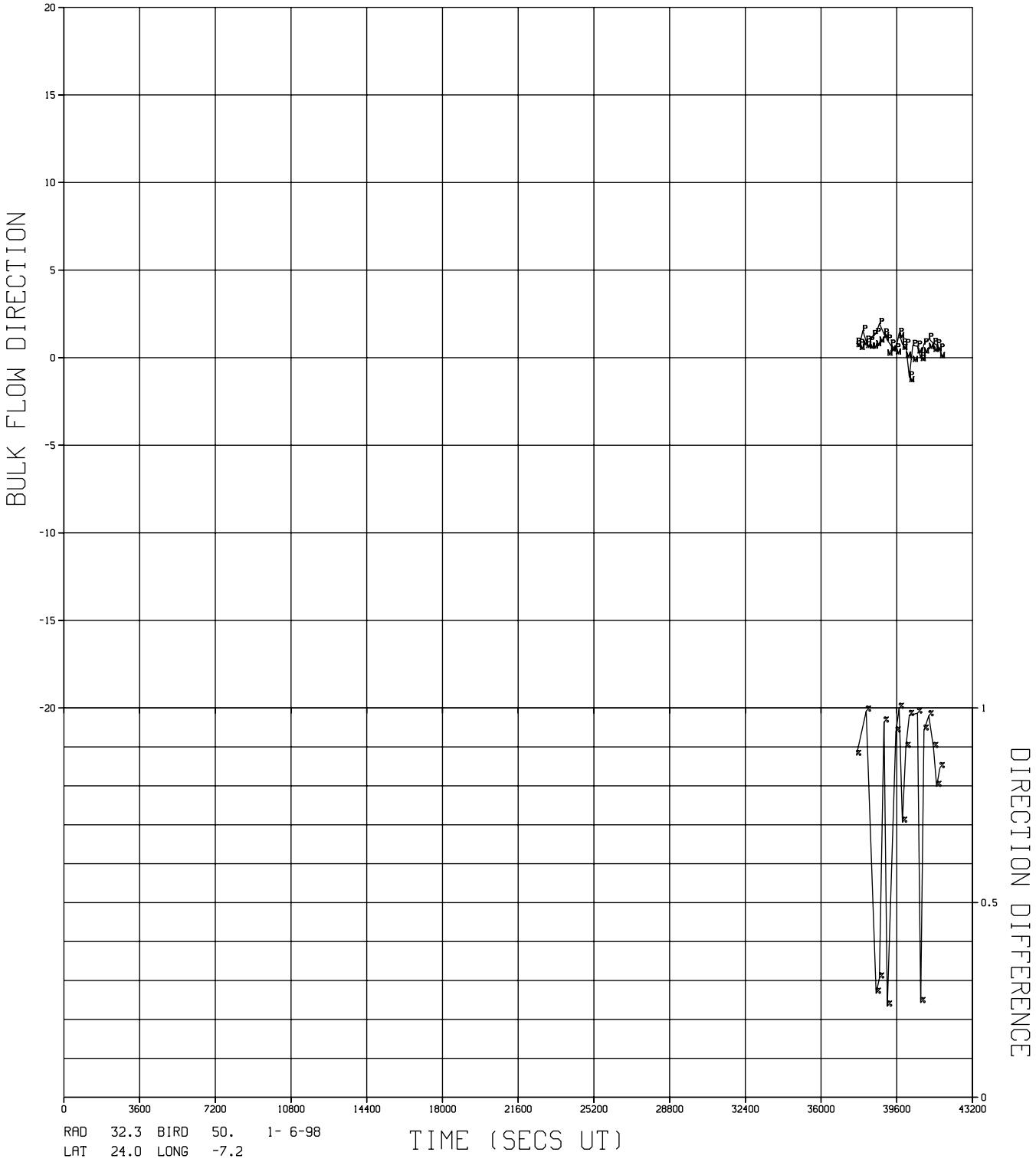
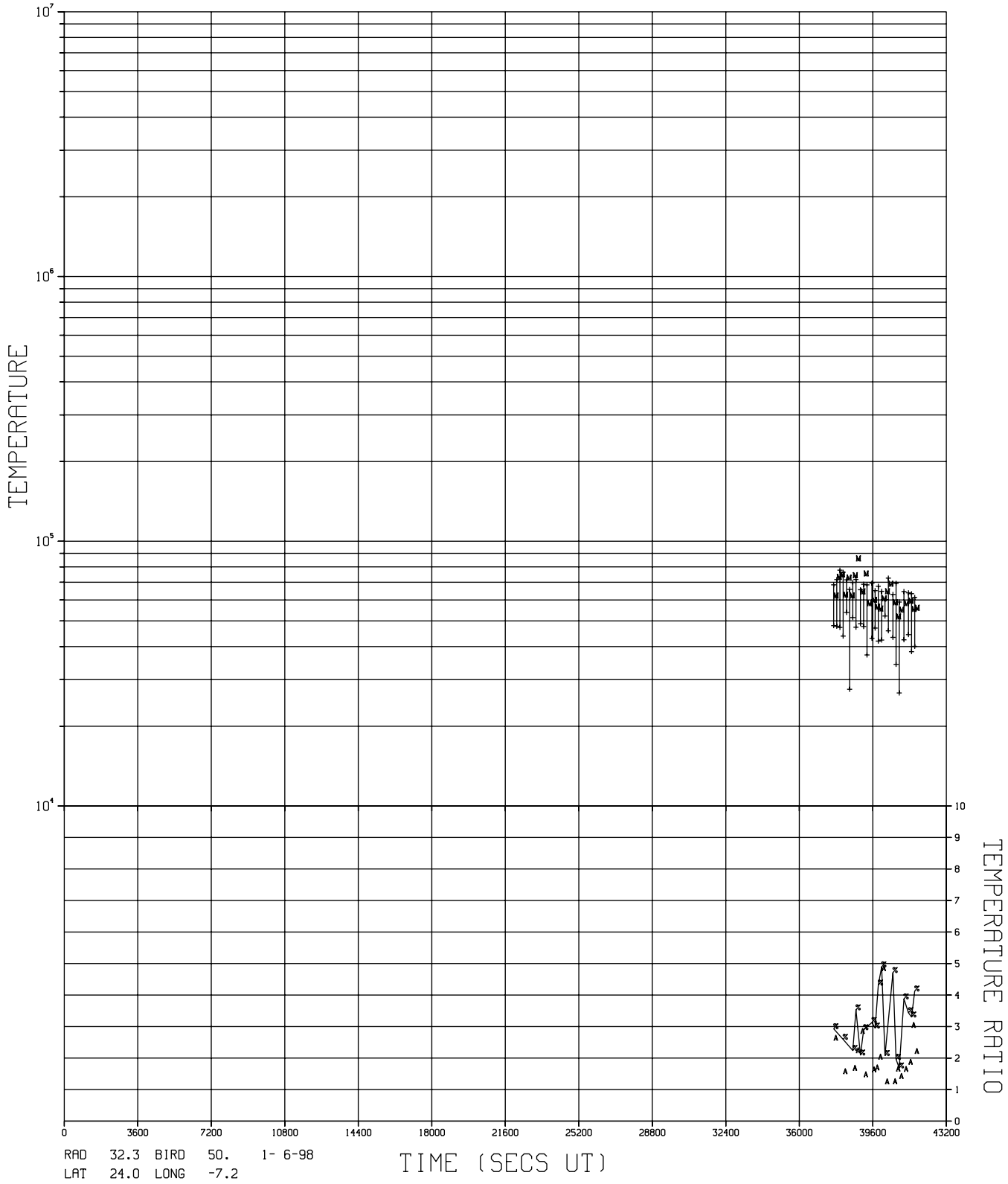
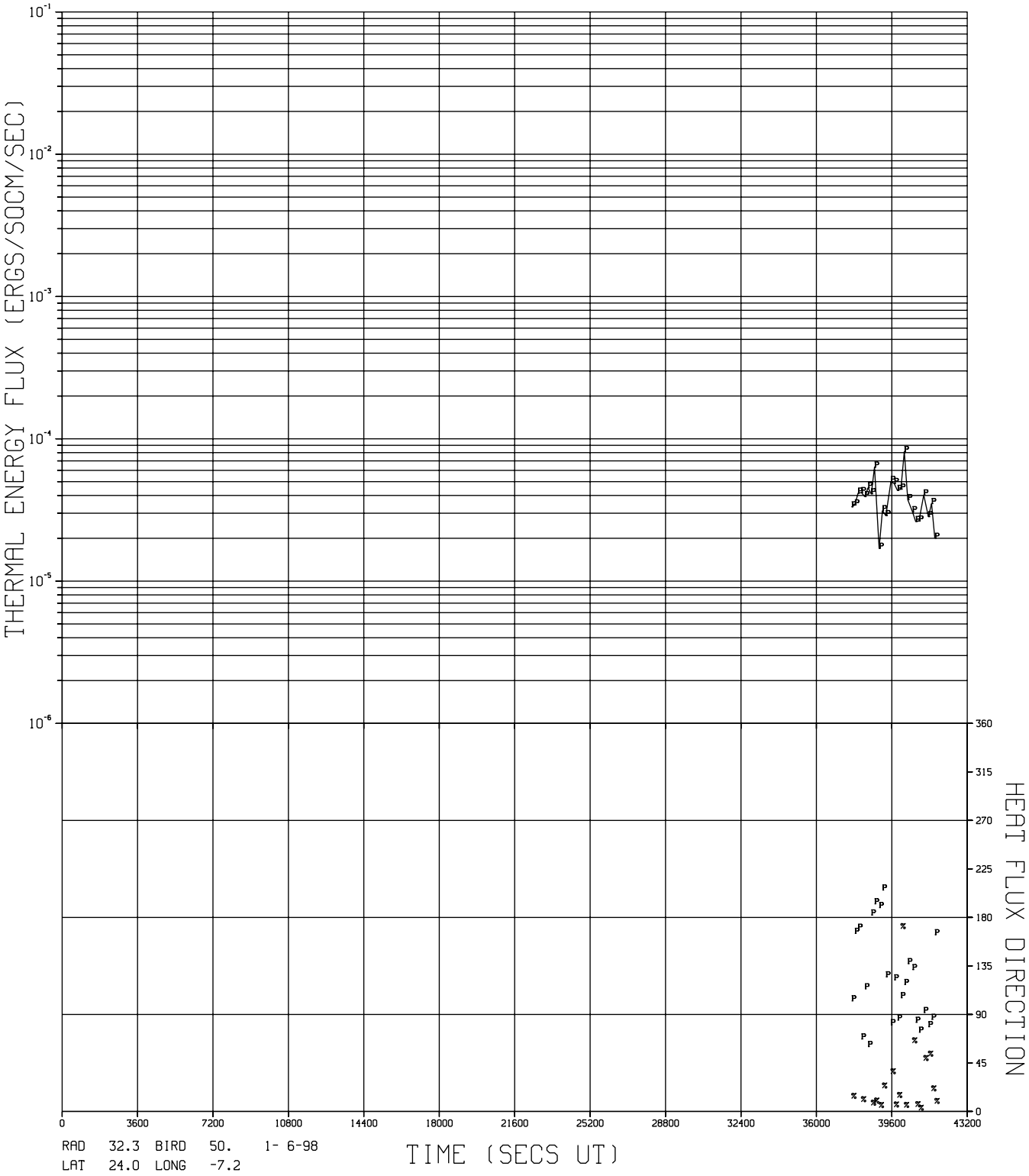
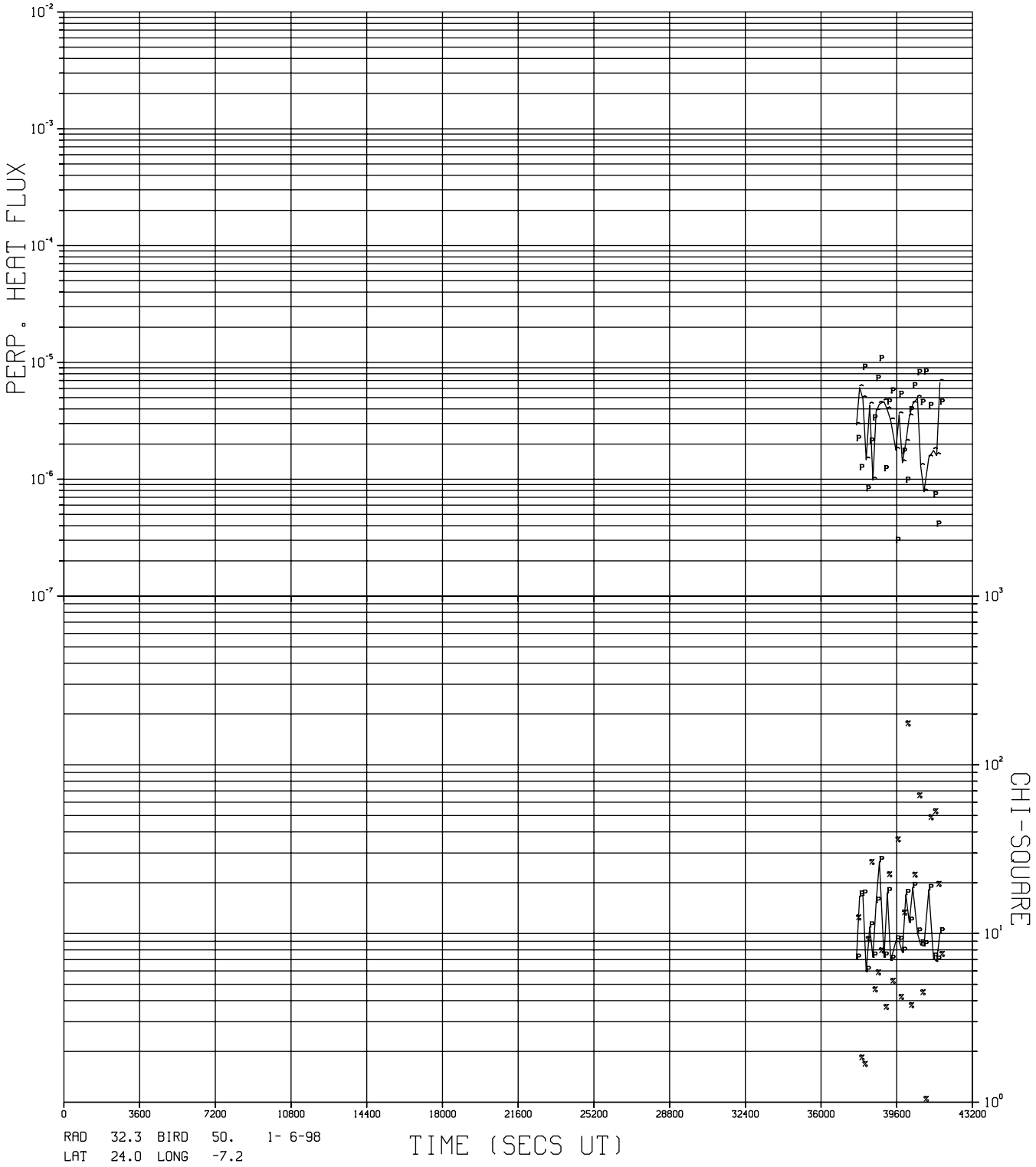

DENSITY
DENSITY RATIO
TIME (SECS UT)
10^2
10^1
10^0
10^{-1}
10^{-2}
10^{-3}
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

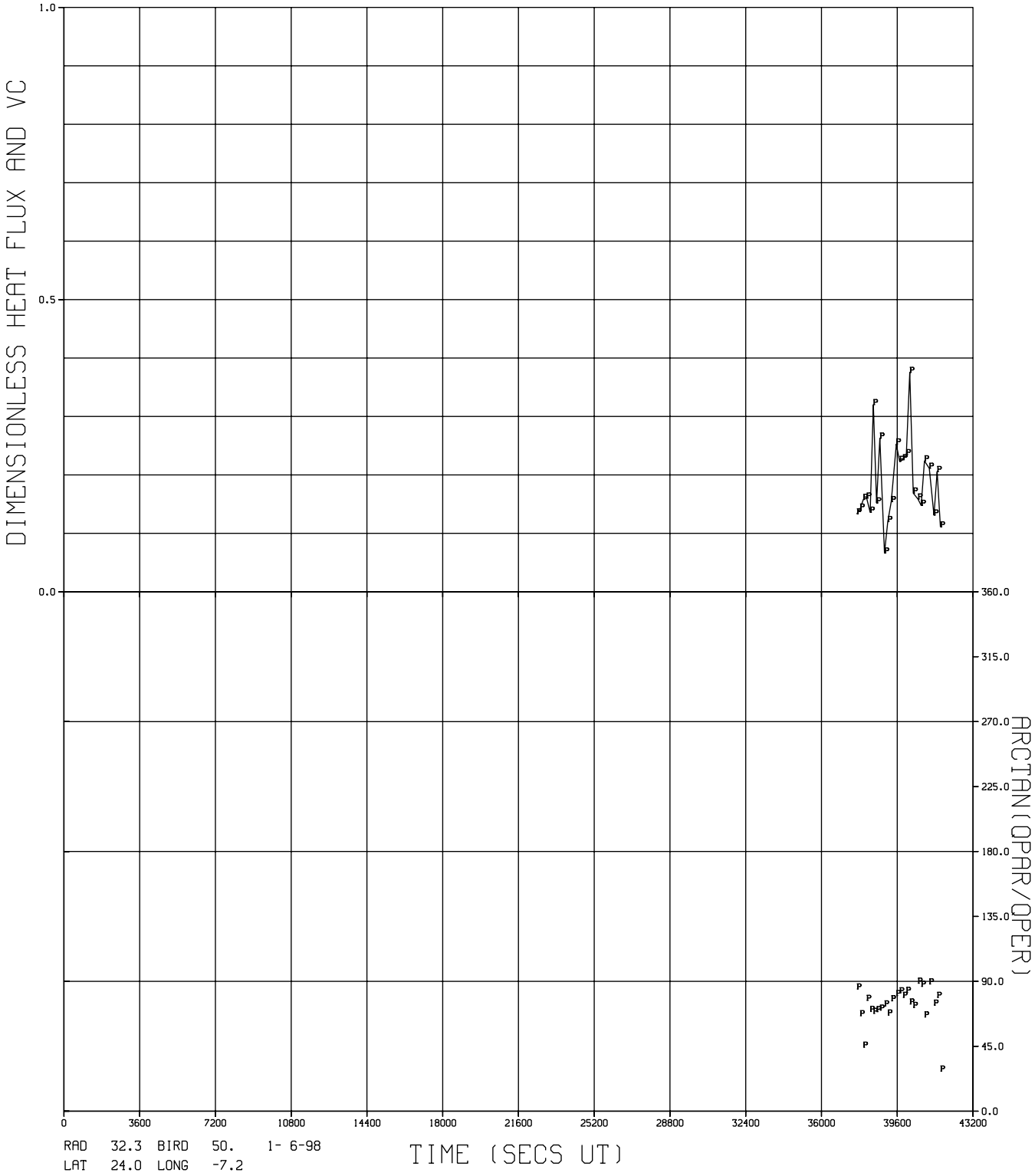

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

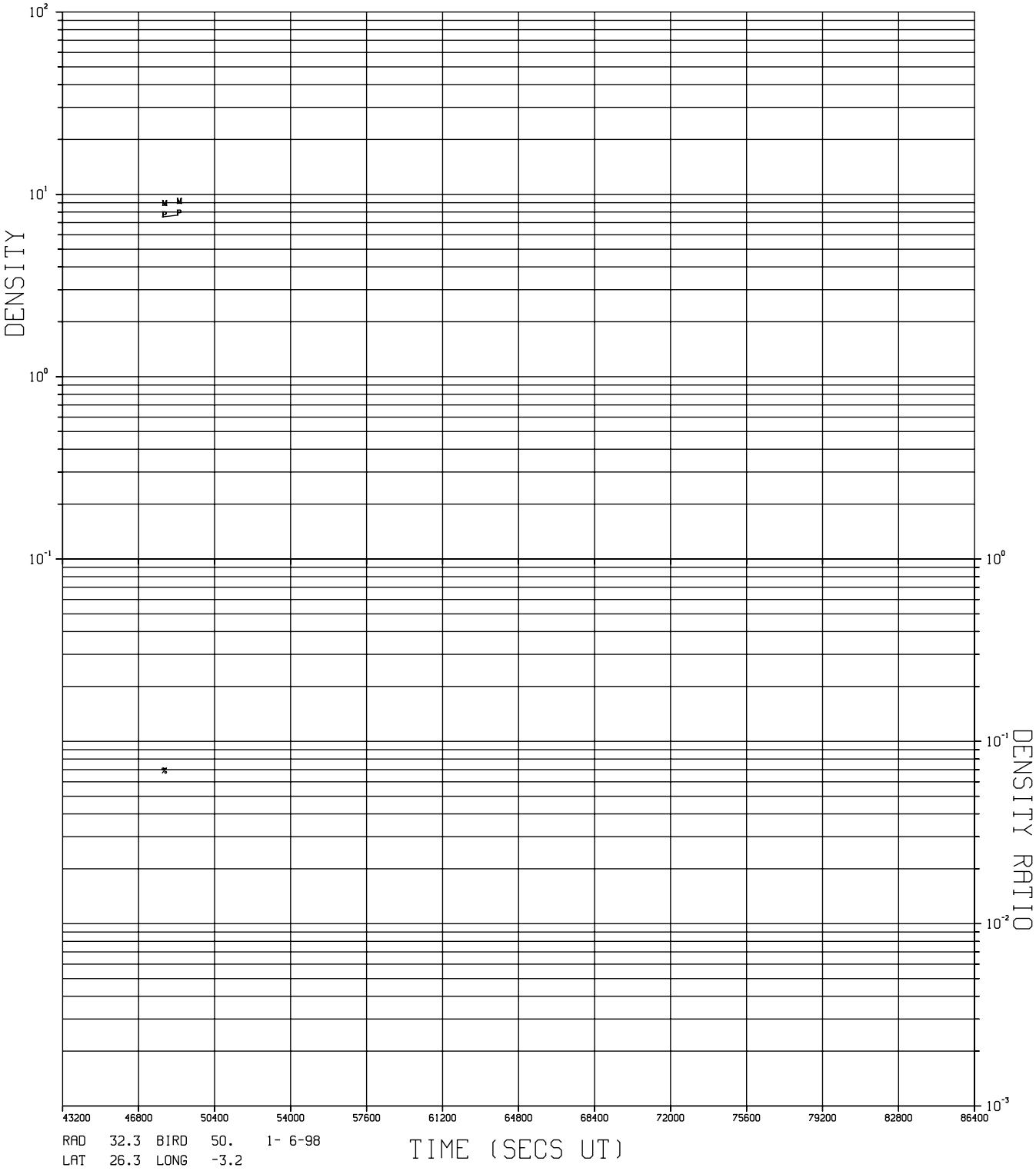

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

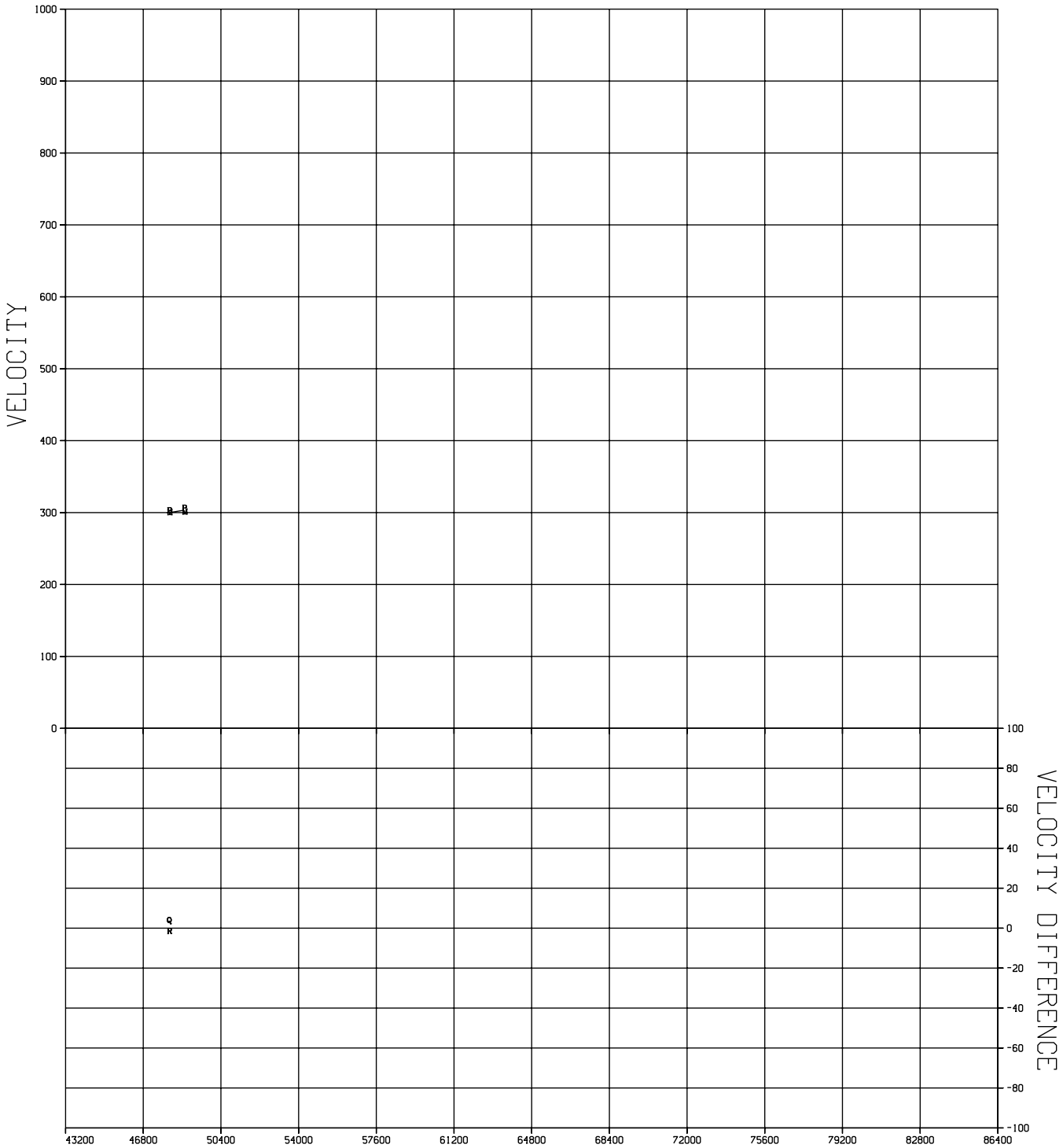

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

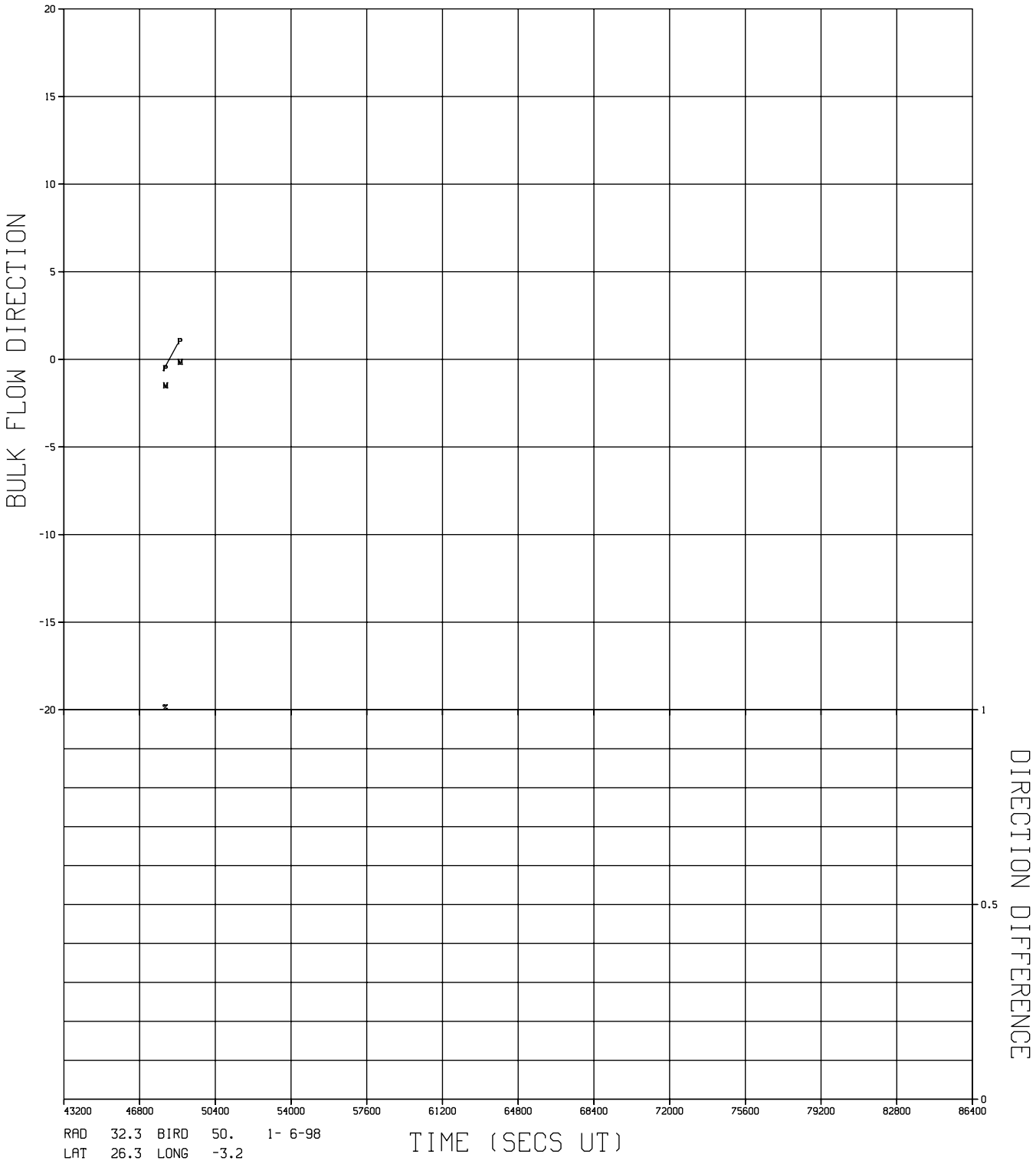

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

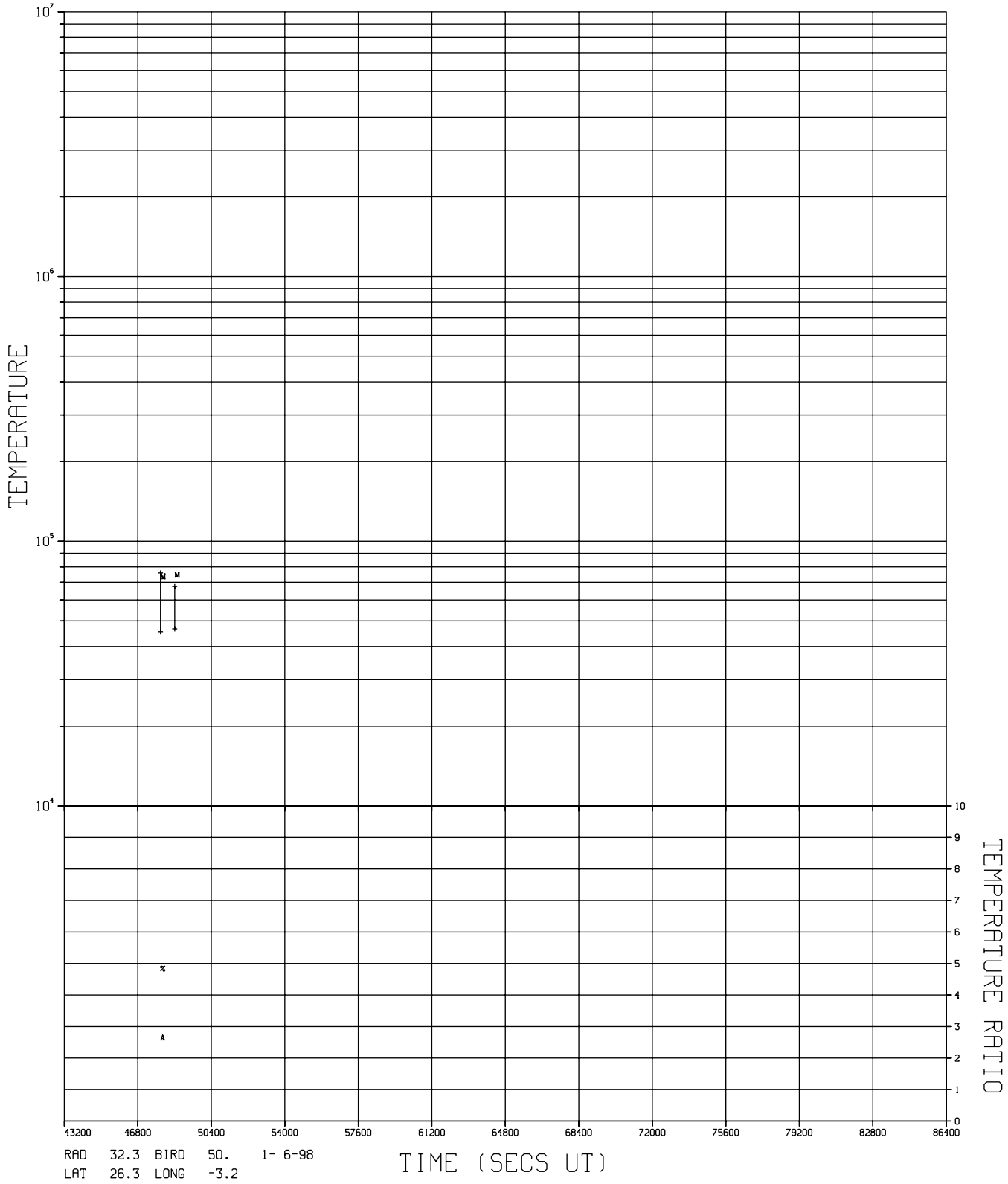

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 24.0 LONG -7.2

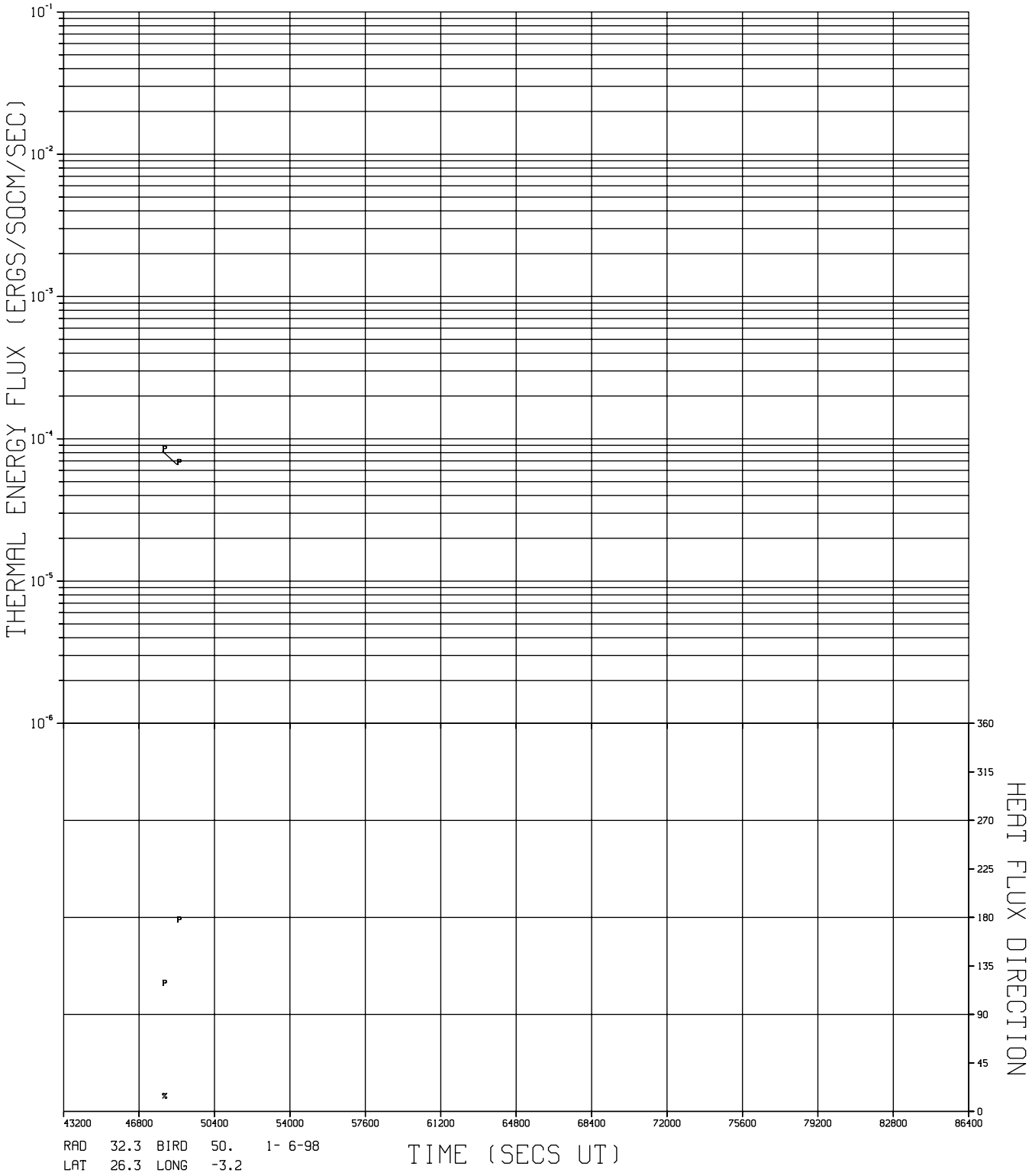

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

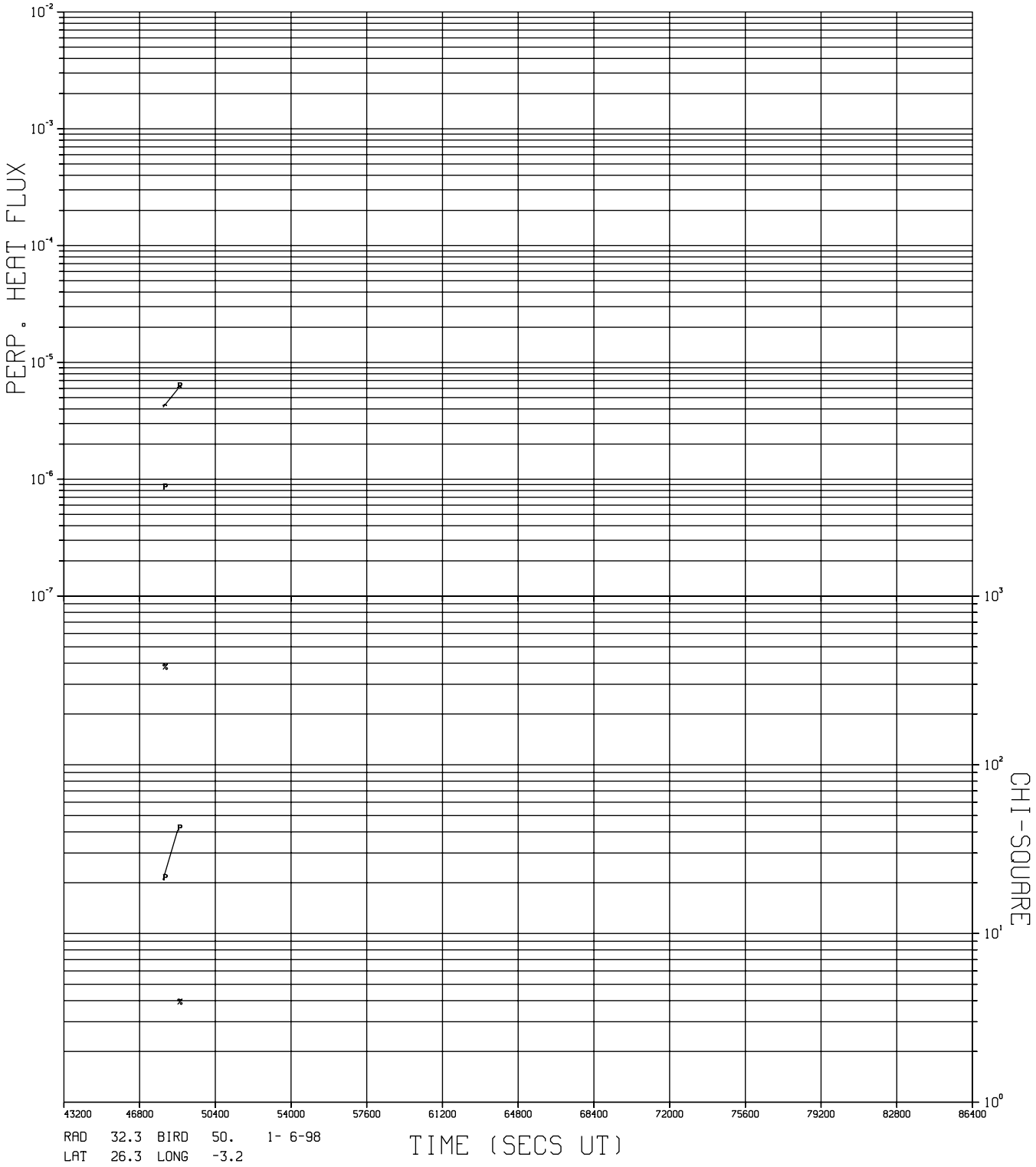


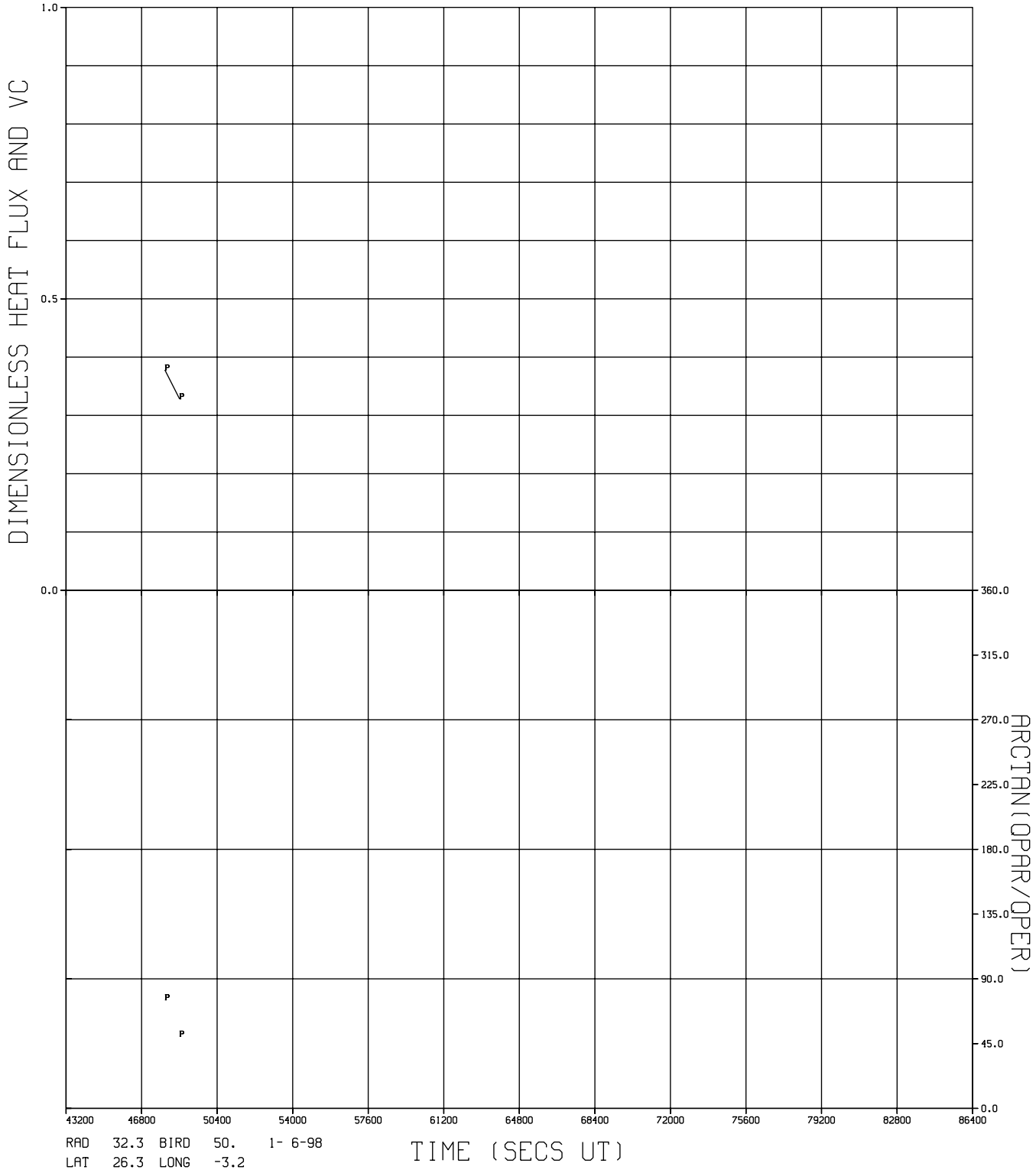
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

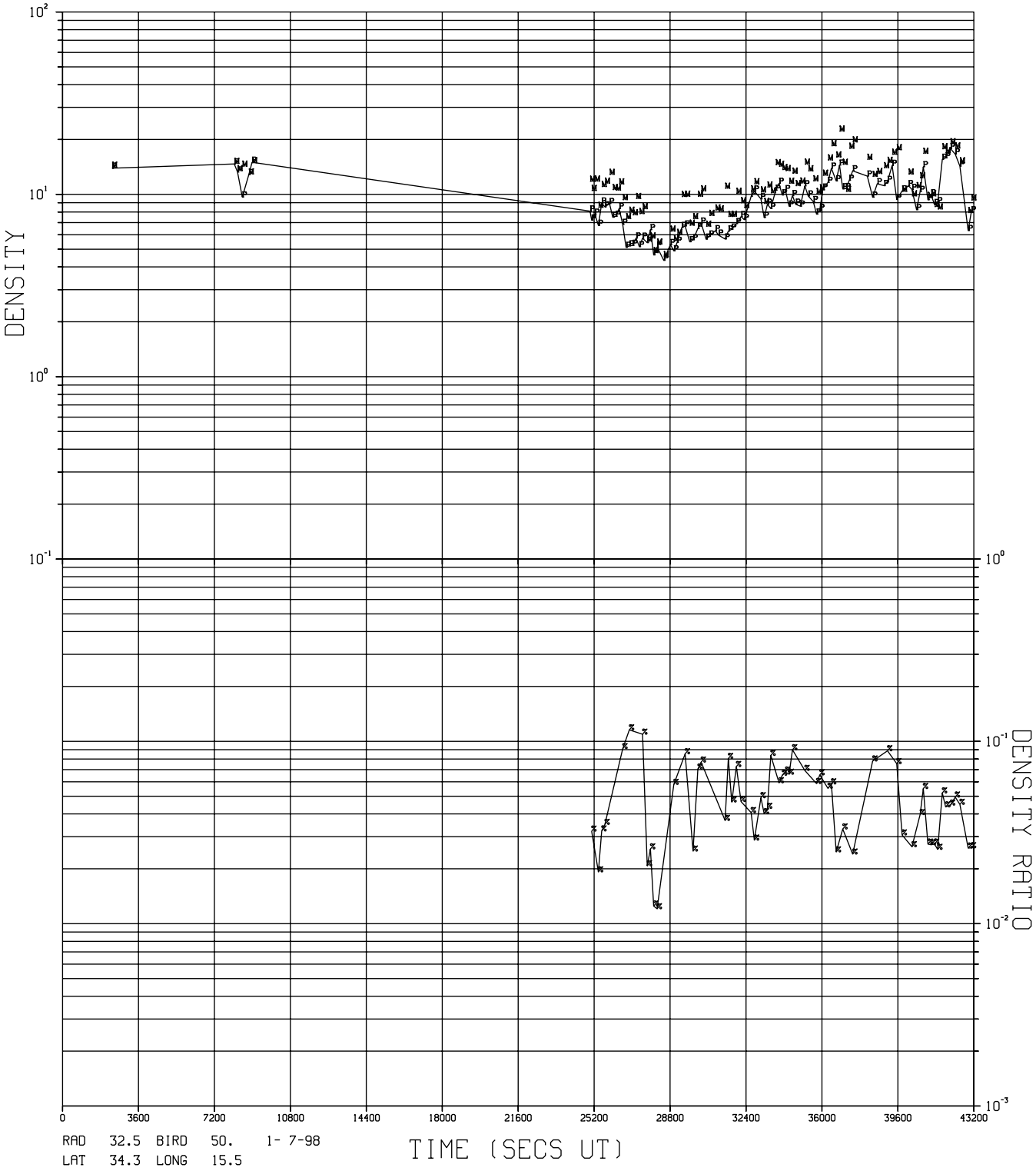

BULK FLOW DIRECTION
20
15
10
5
0
-5
-10
-15
-20
DIRECTION DIFFERENCE
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

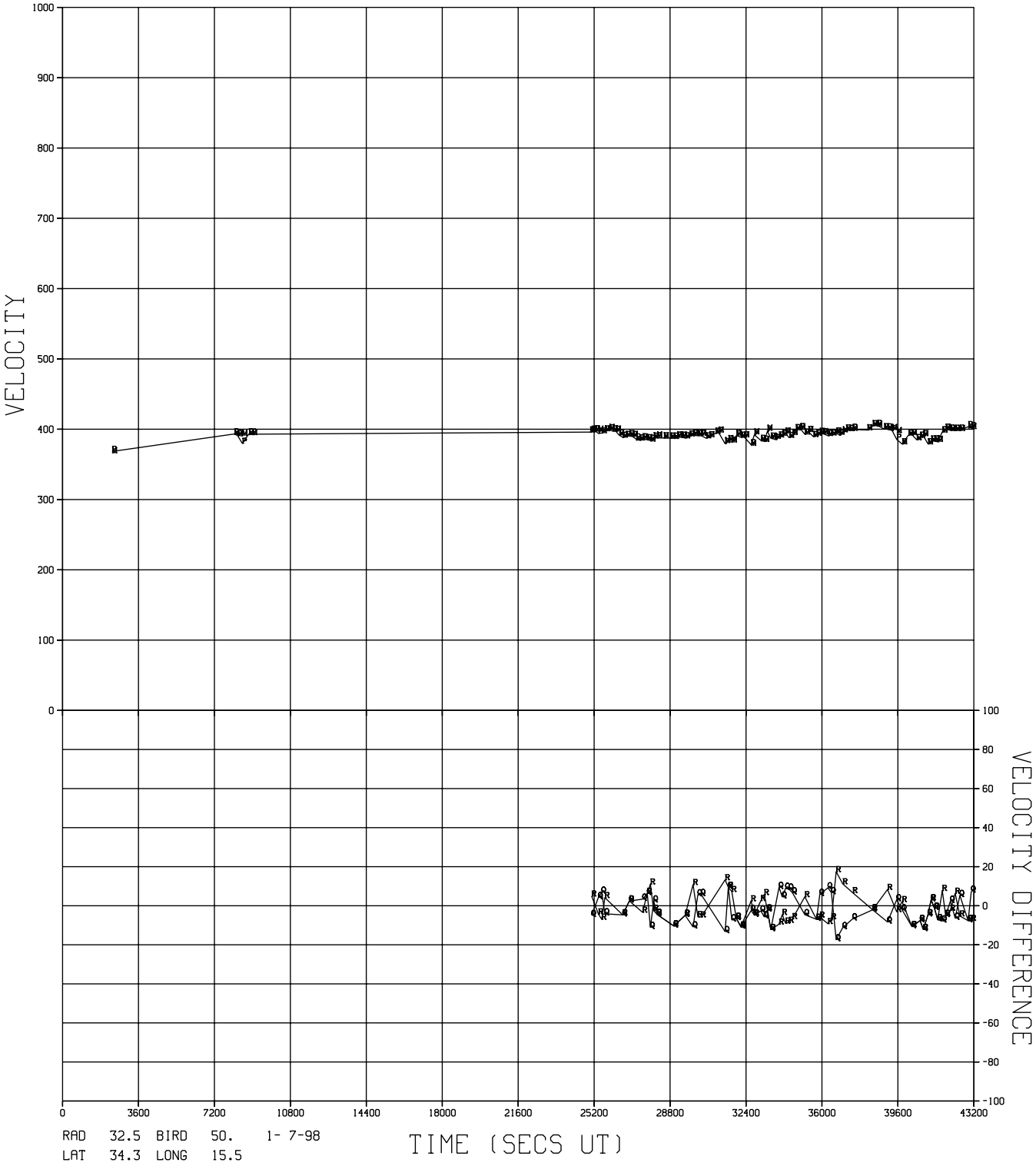

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

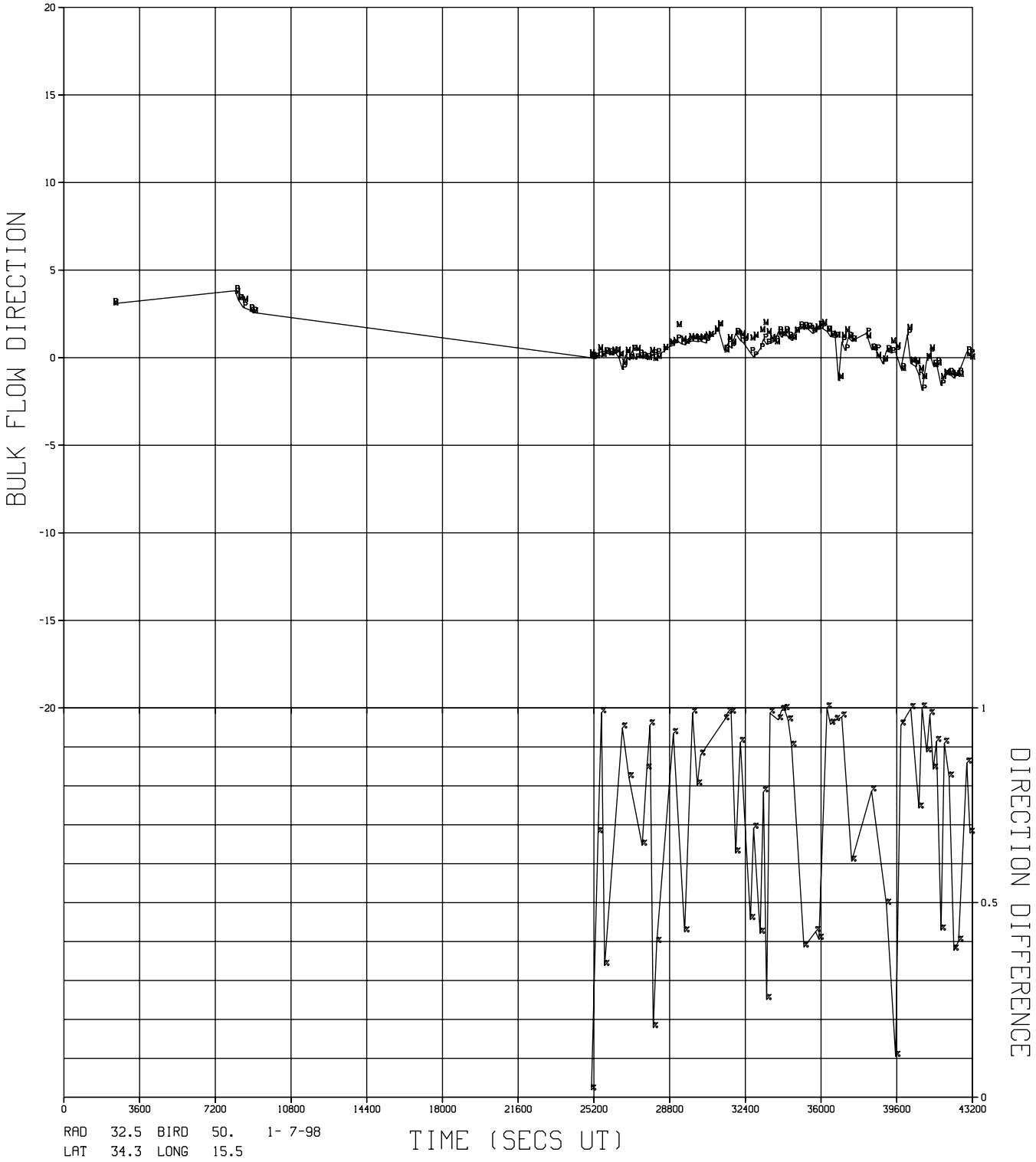

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
HEAT FLUX DIRECTION
360
315
270
225
180
135
90
45
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

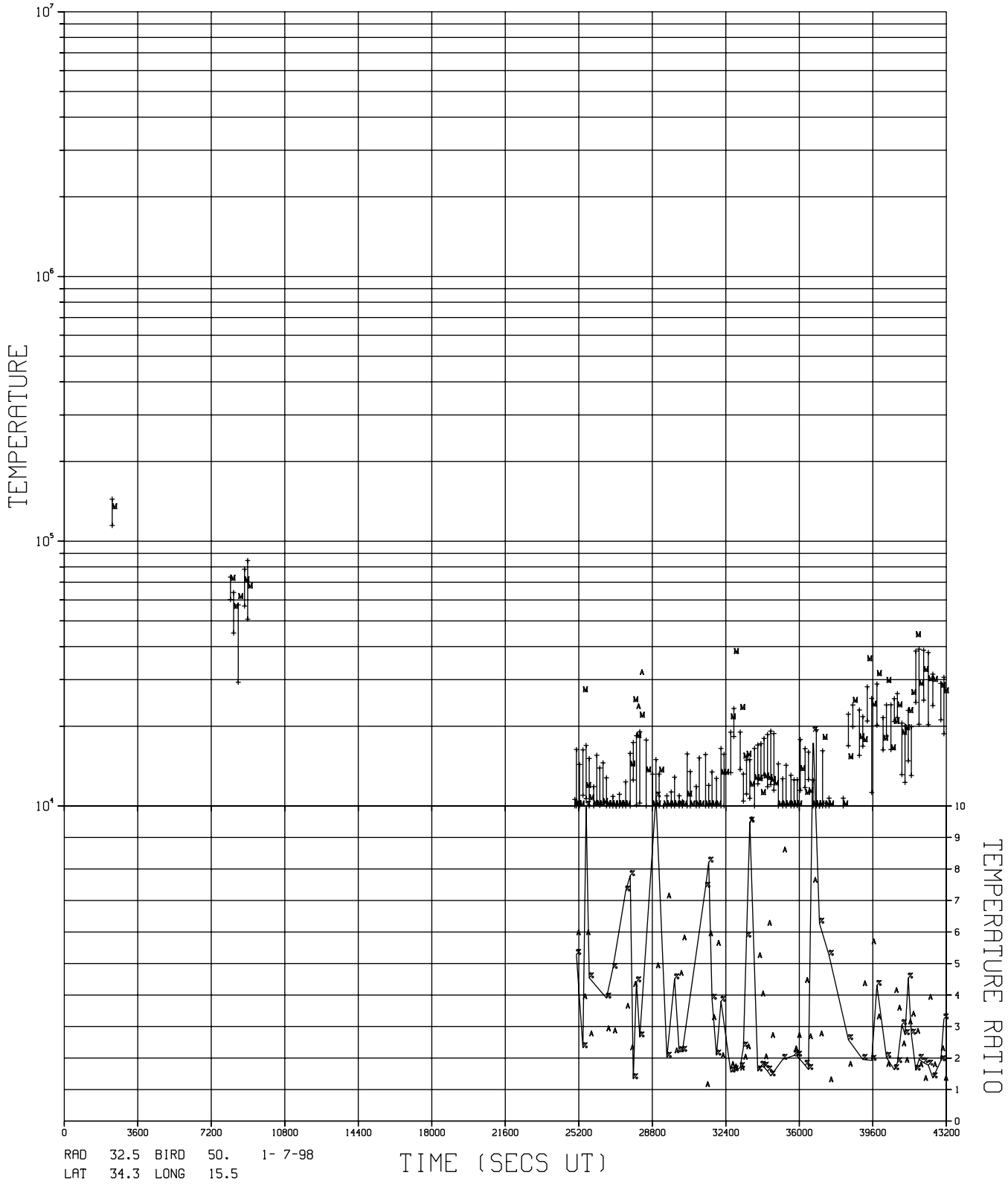

PERP. HEAT FLUX
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
CHI-SQUARE
10^{3}
10^{2}
10^{1}
10^{0}
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

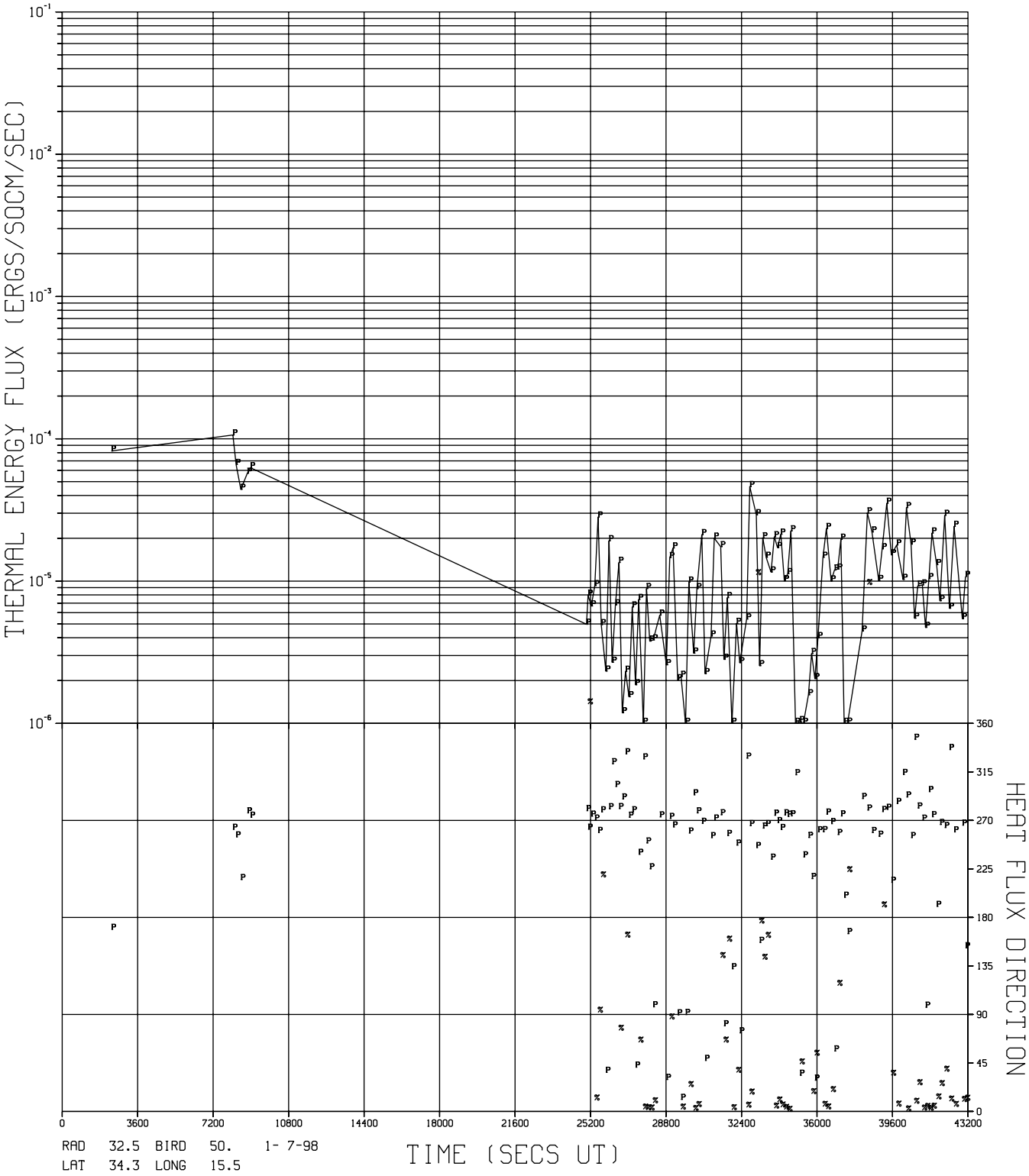

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.3 BIRD 50. 1- 6-98
LAT 26.3 LONG -3.2

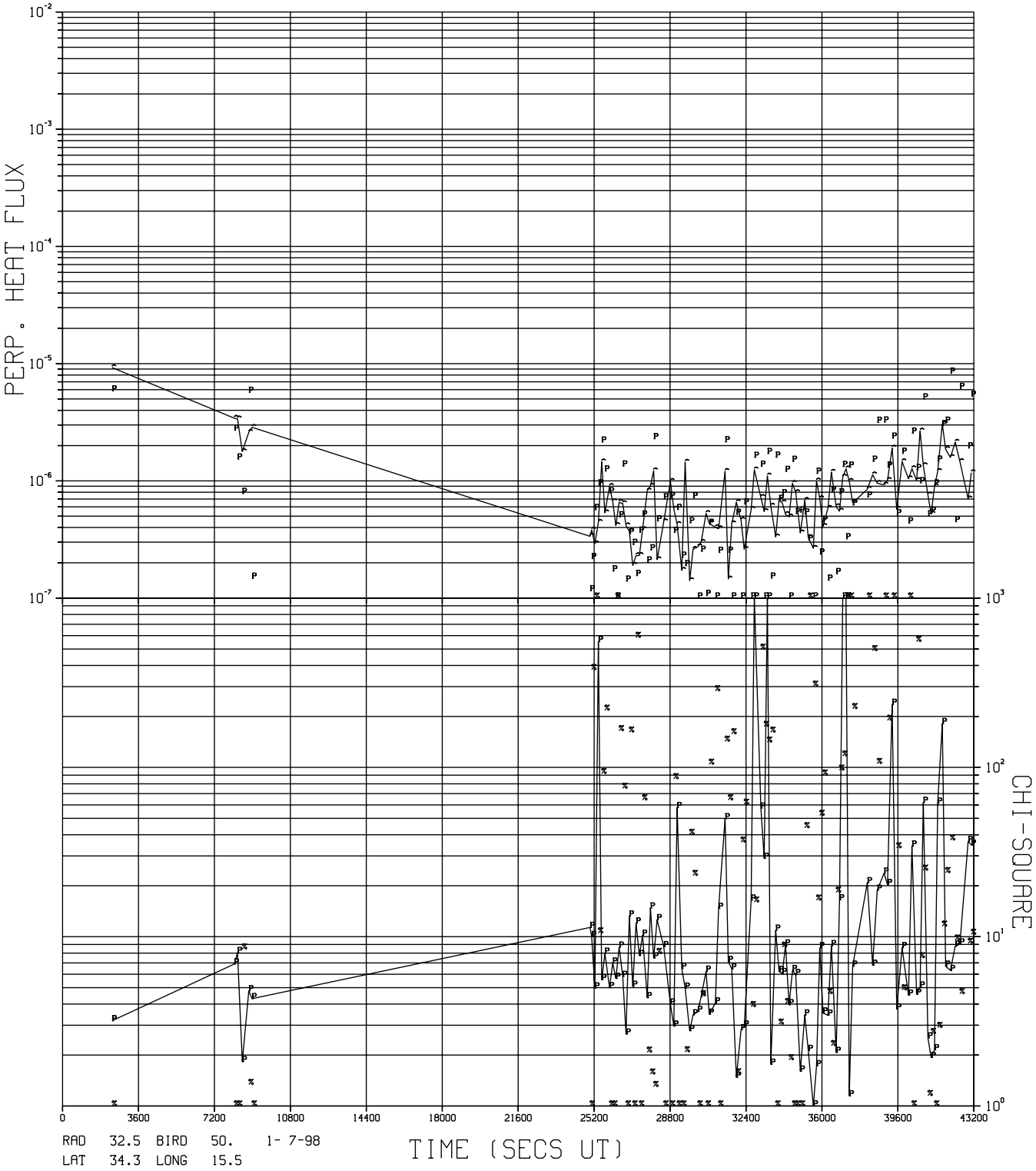

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

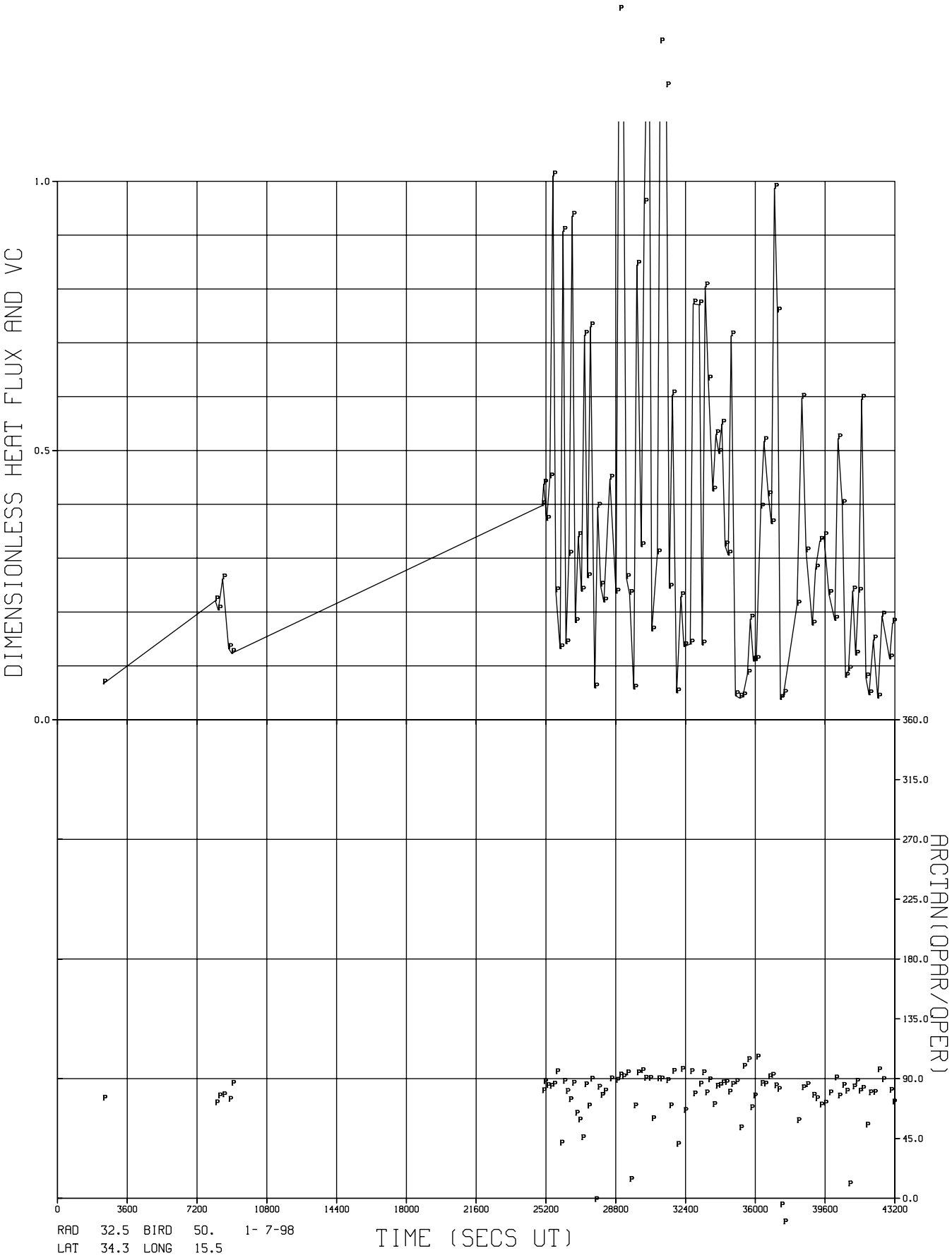

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

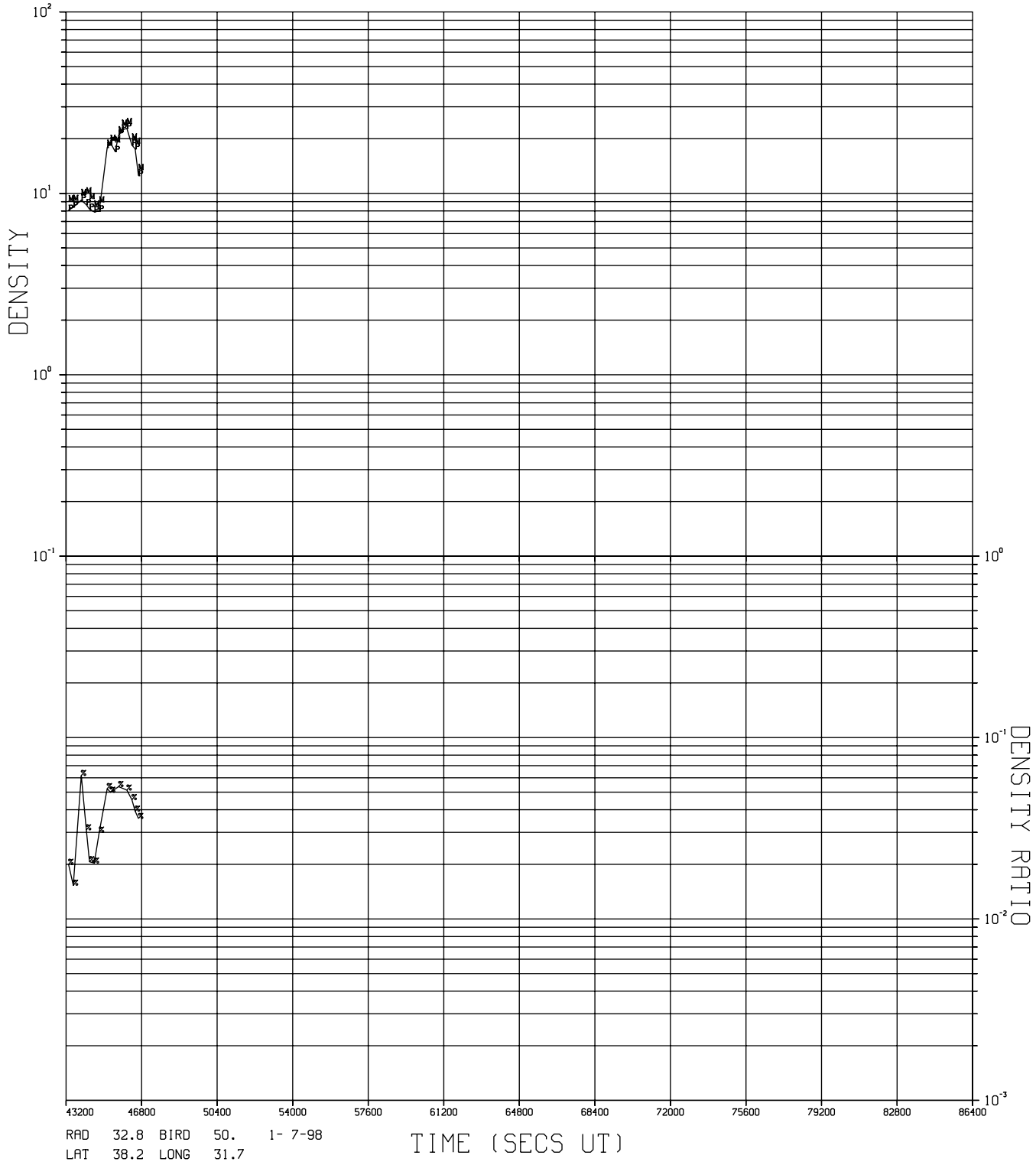

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

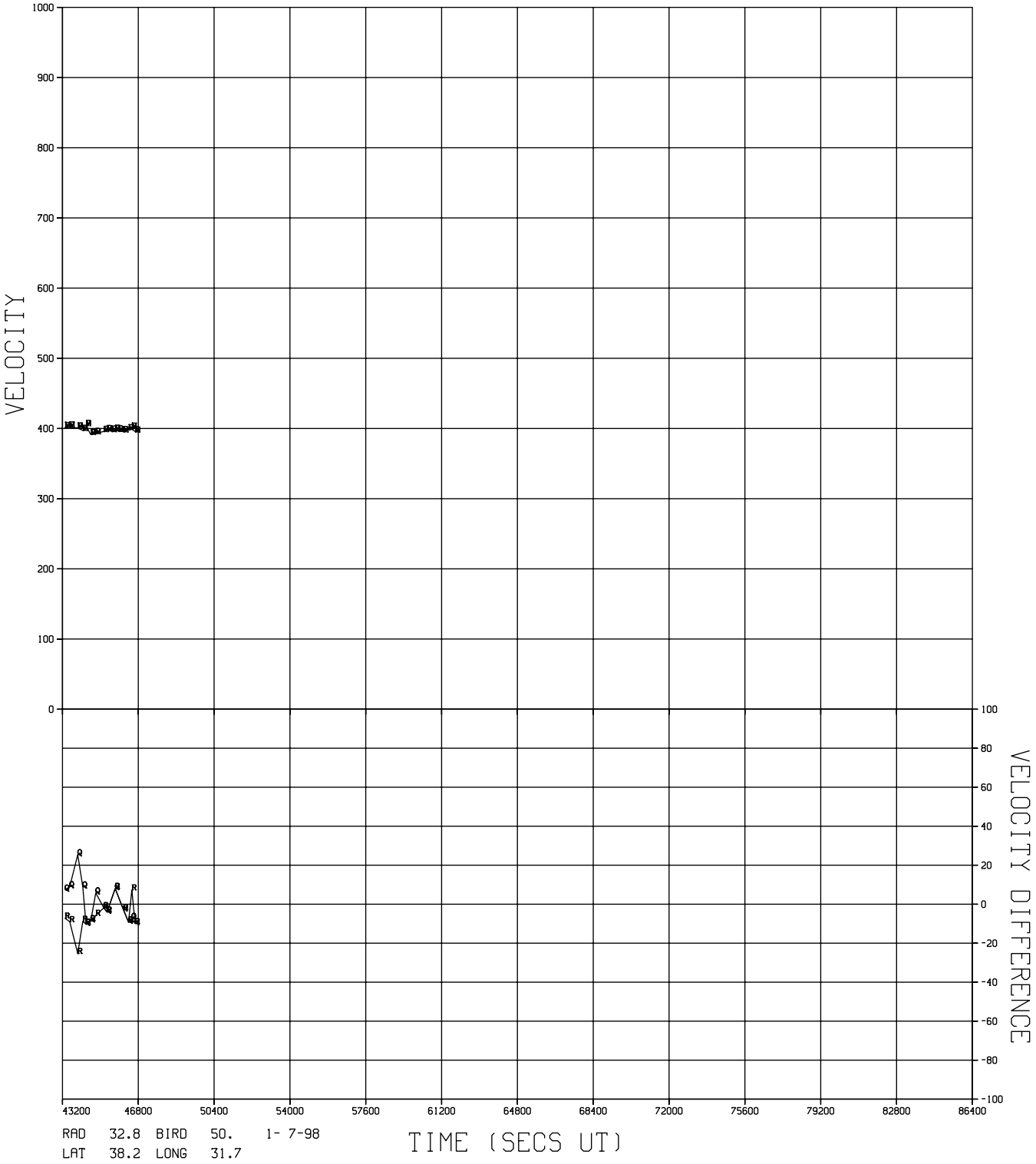

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

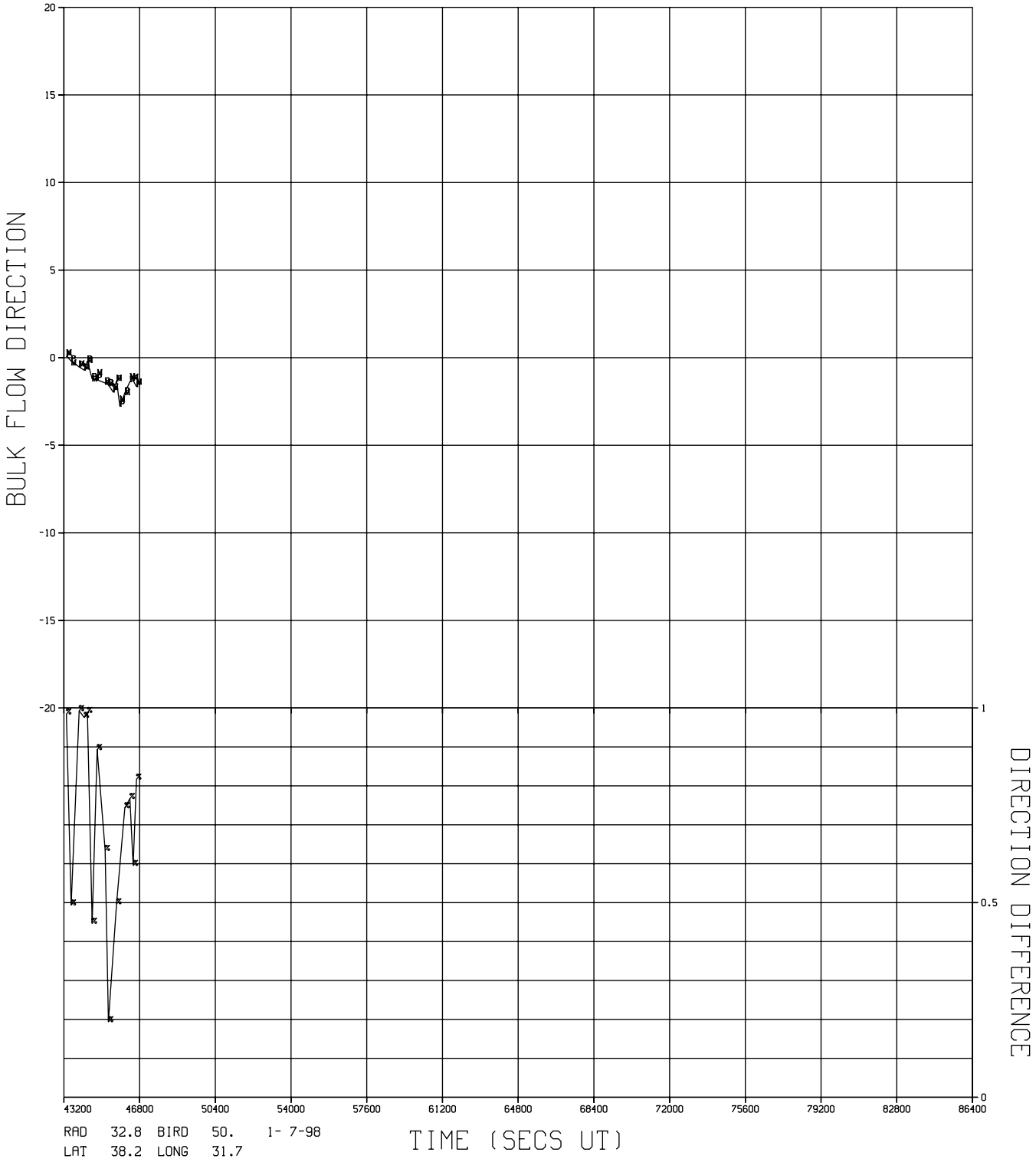

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

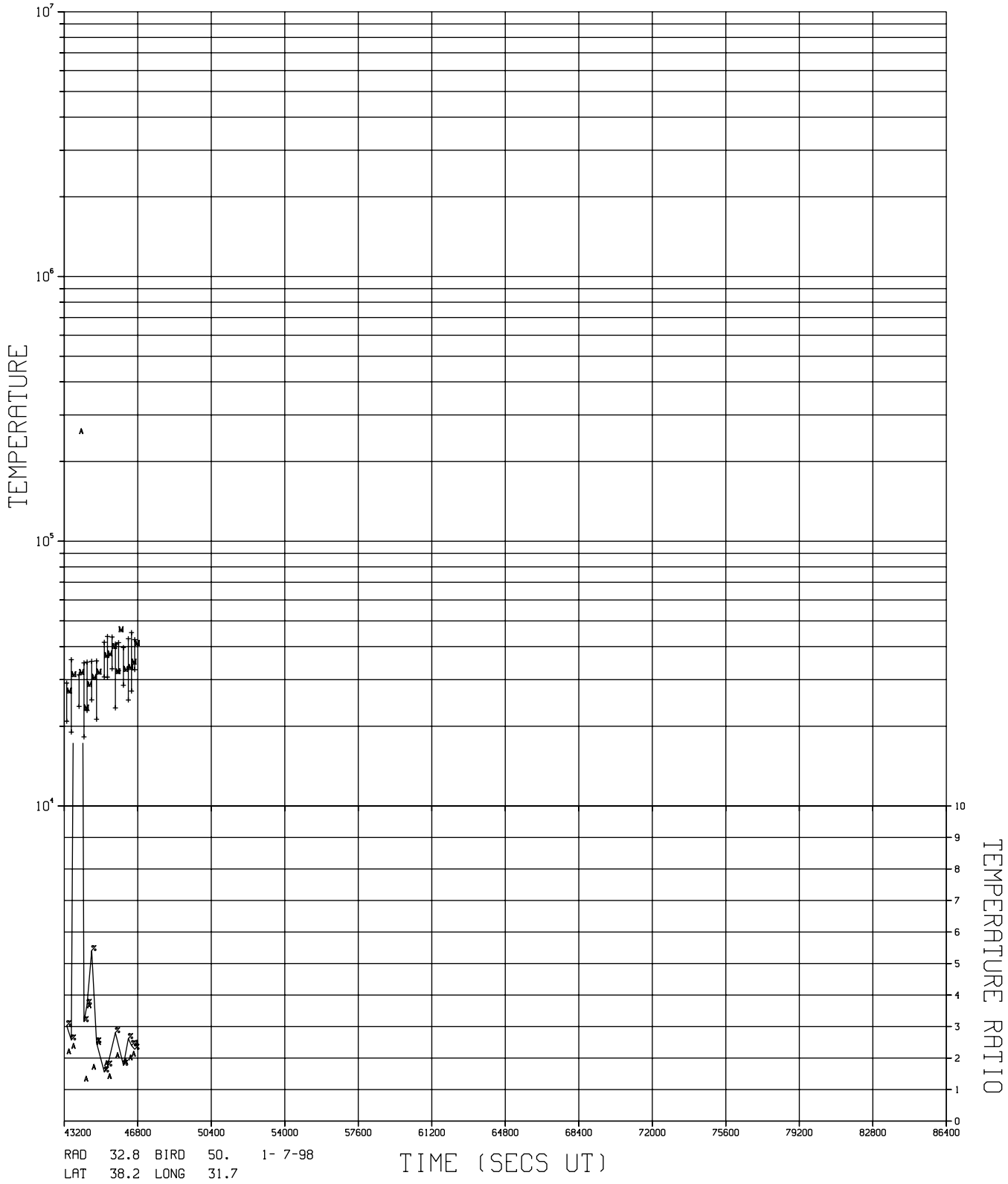

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.5 BIRD 50. 1- 7-98
LAT 34.3 LONG 15.5

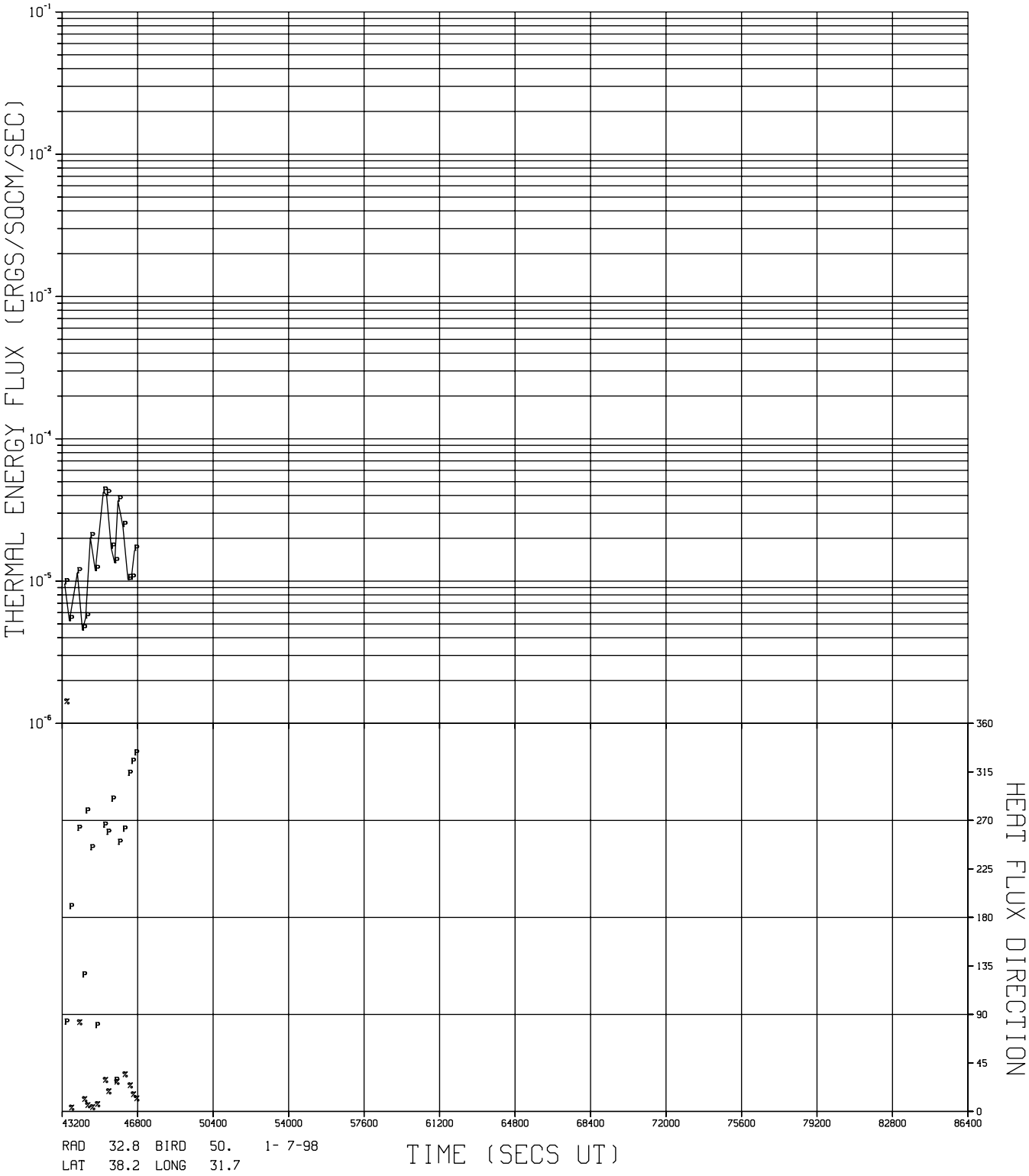

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

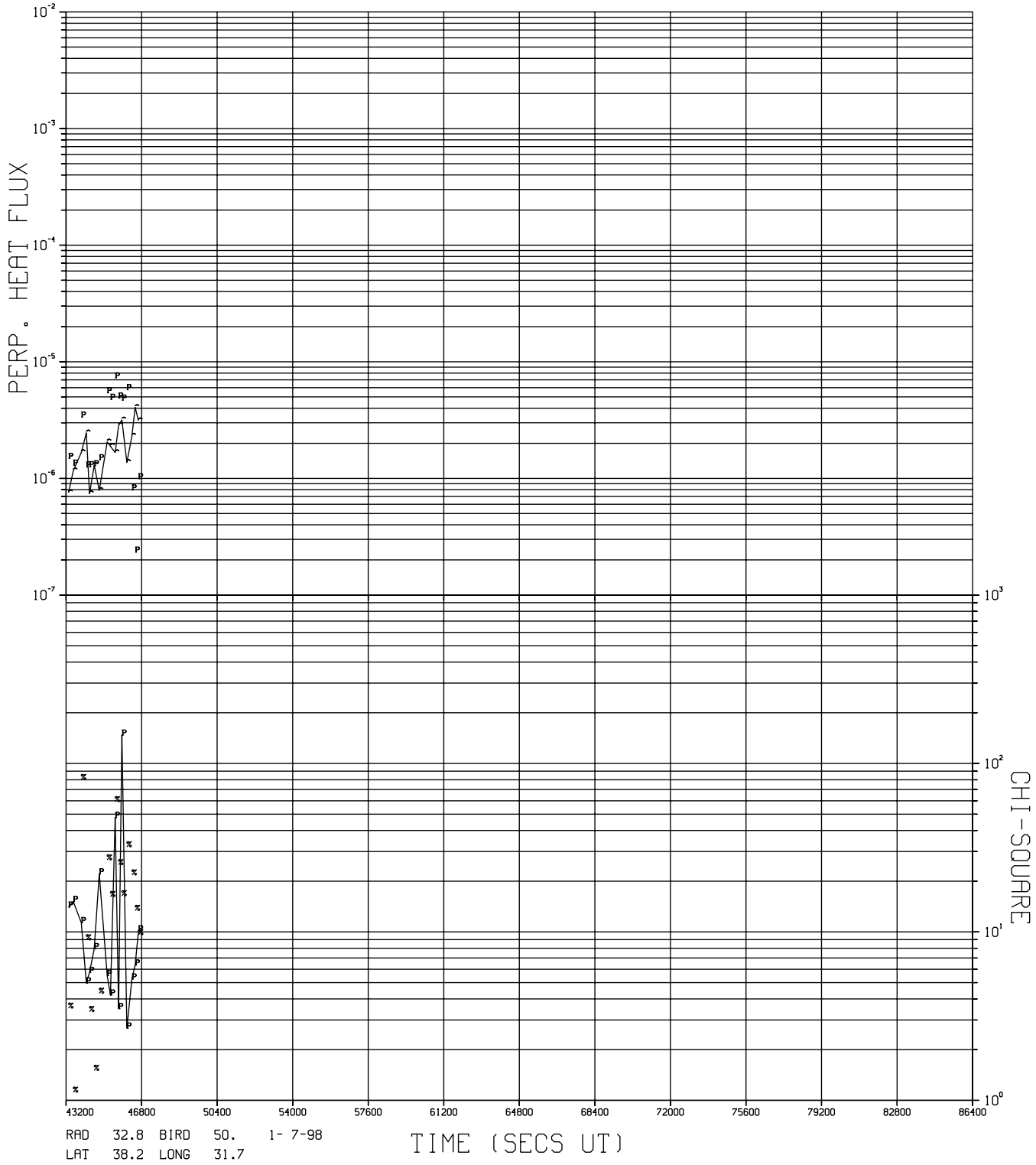


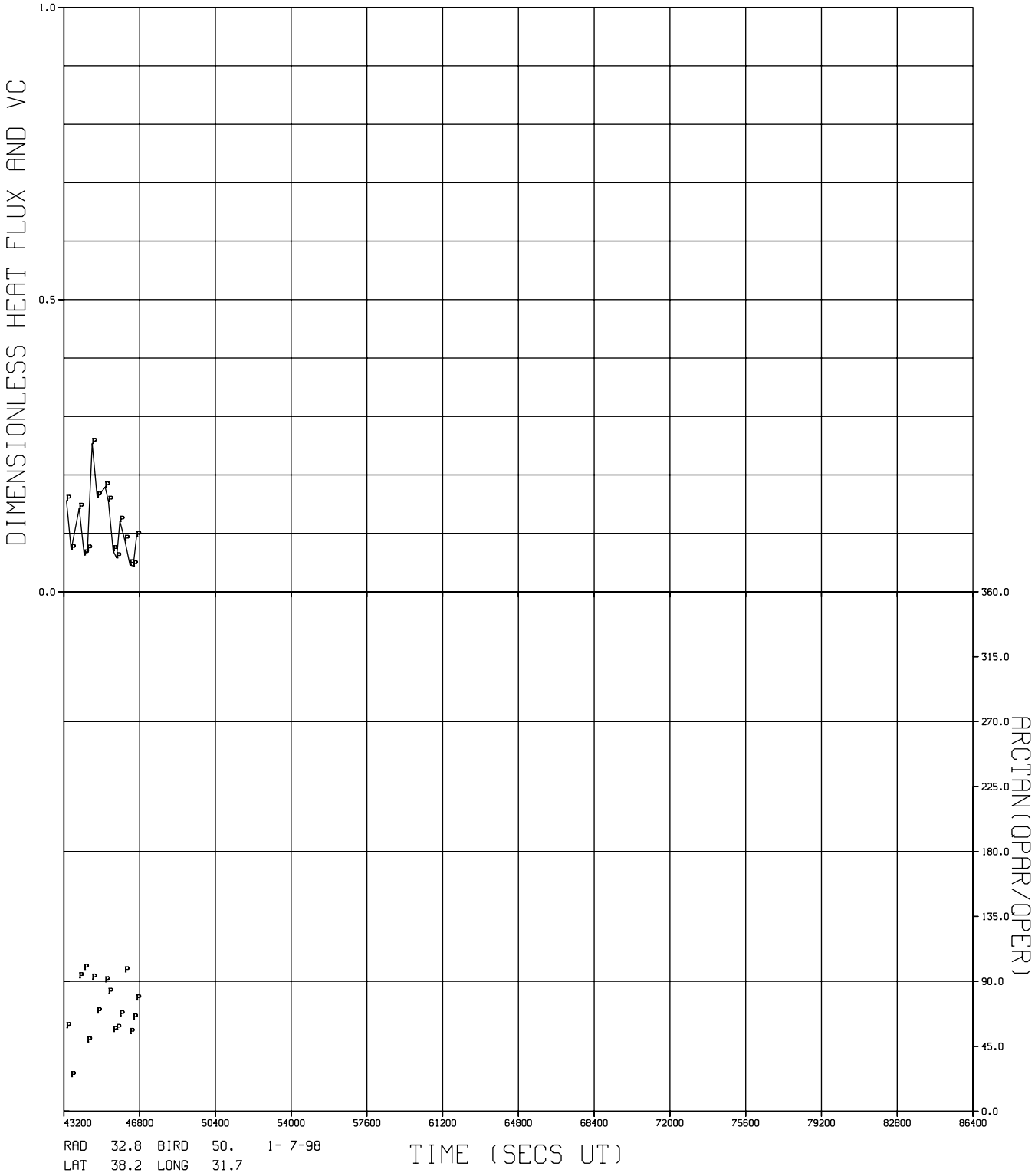
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

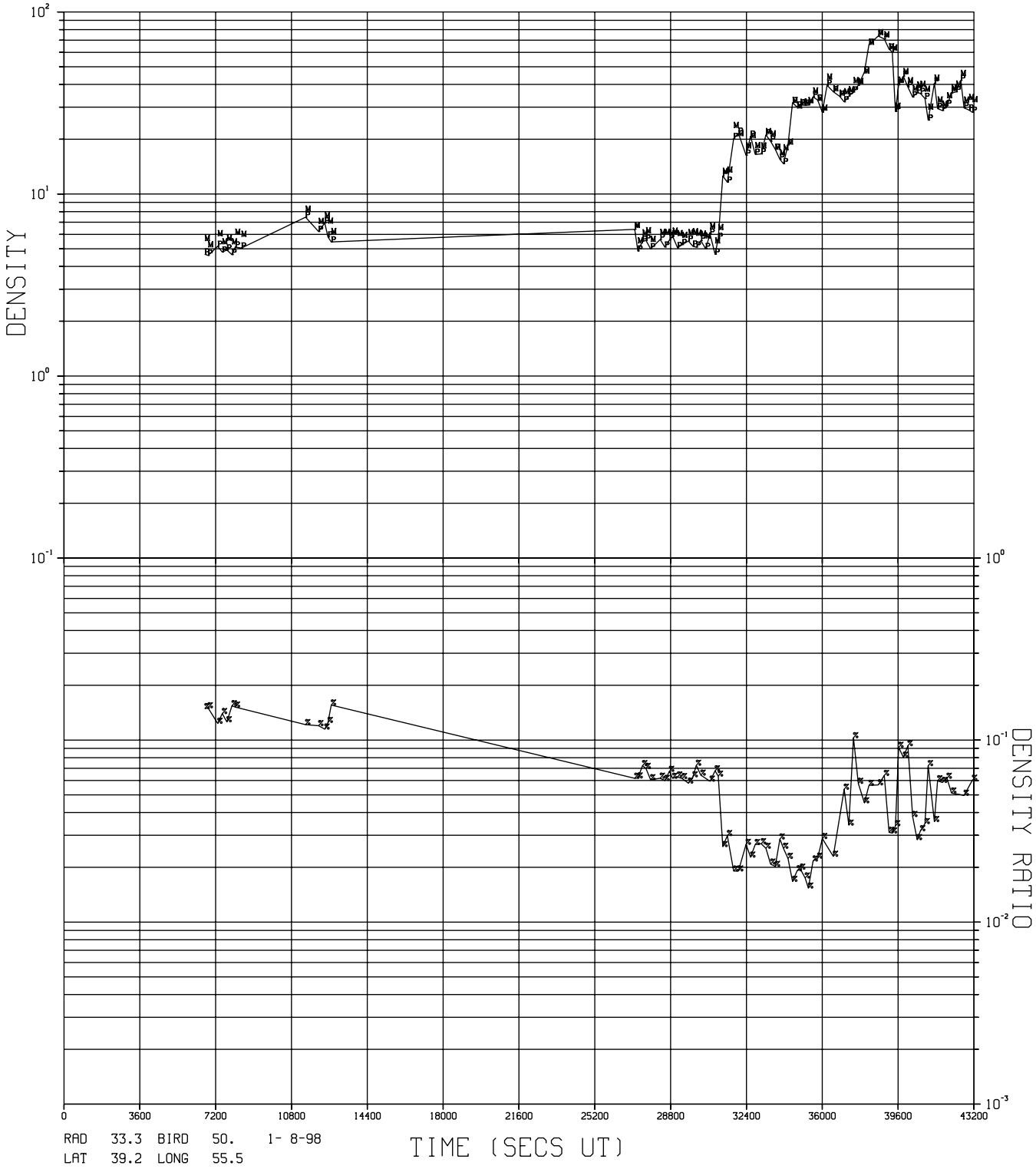

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

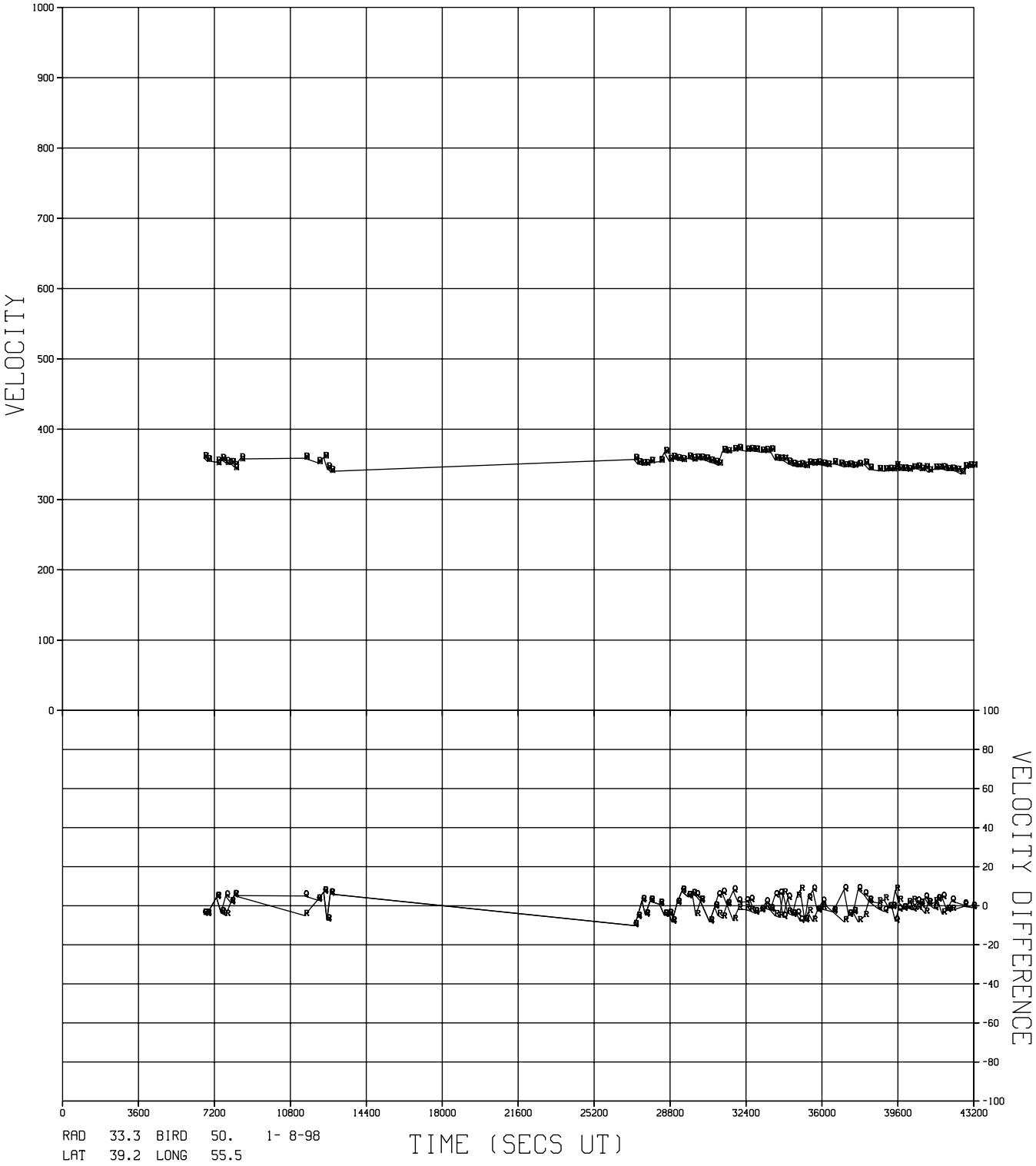

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

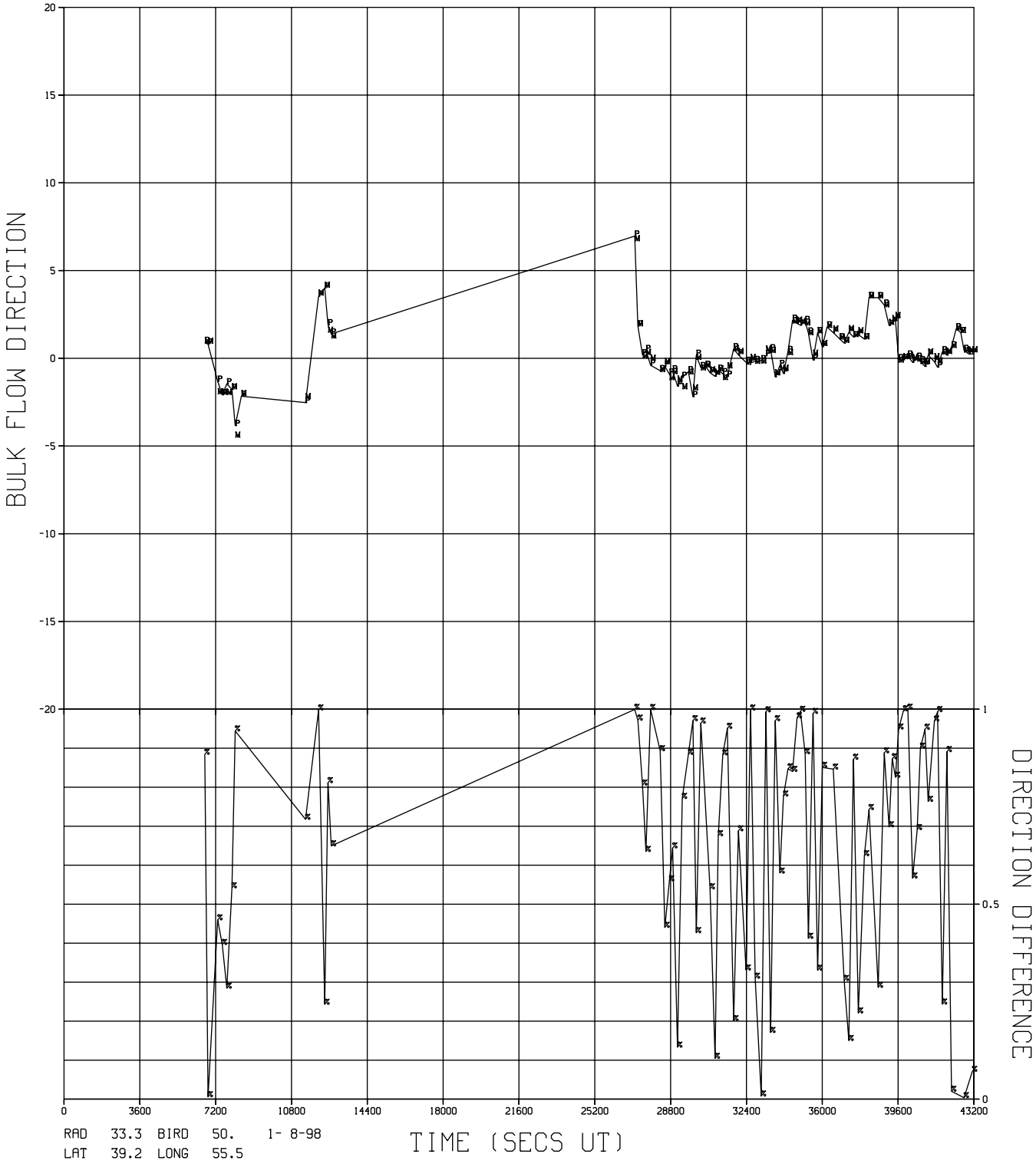

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

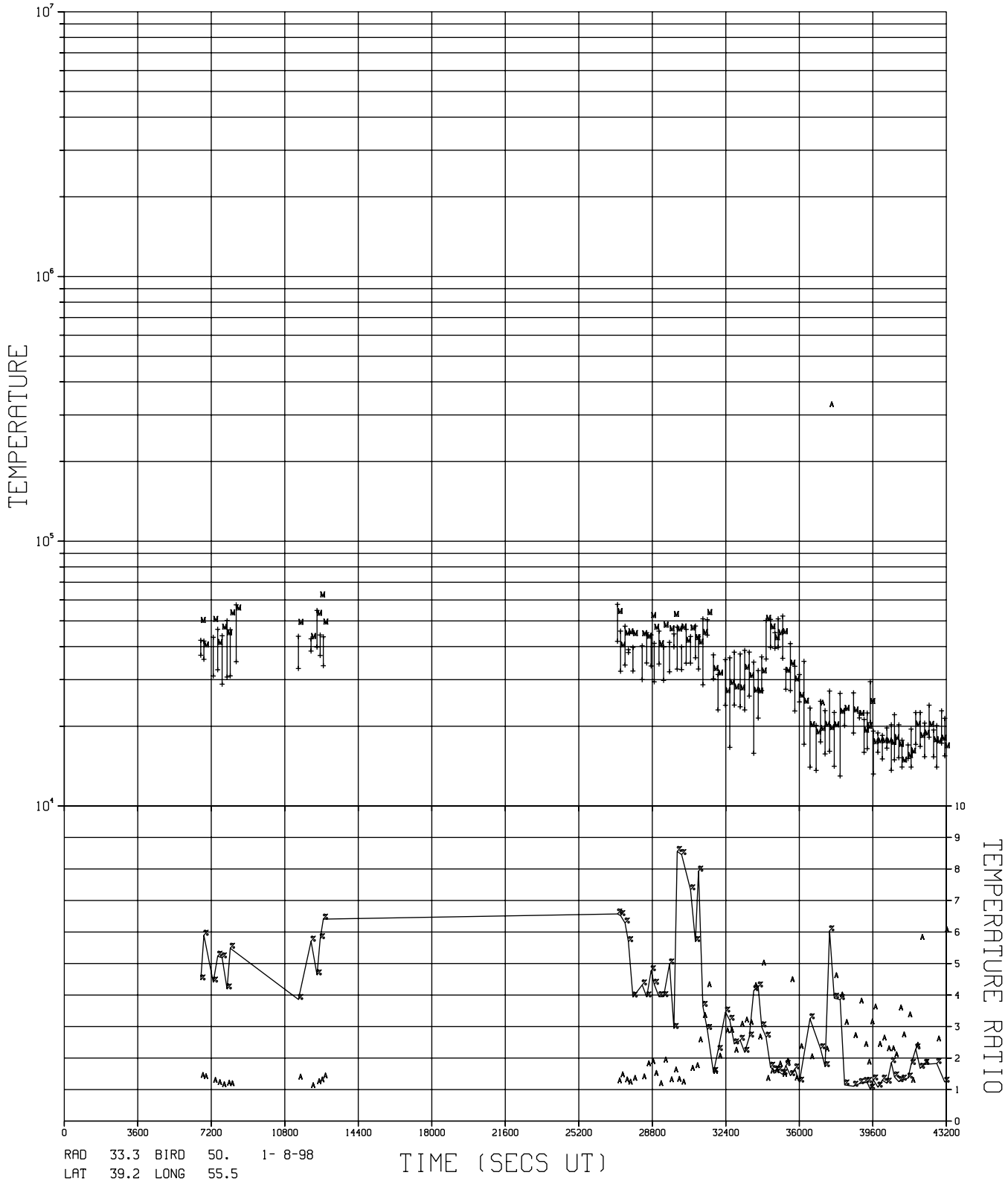

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

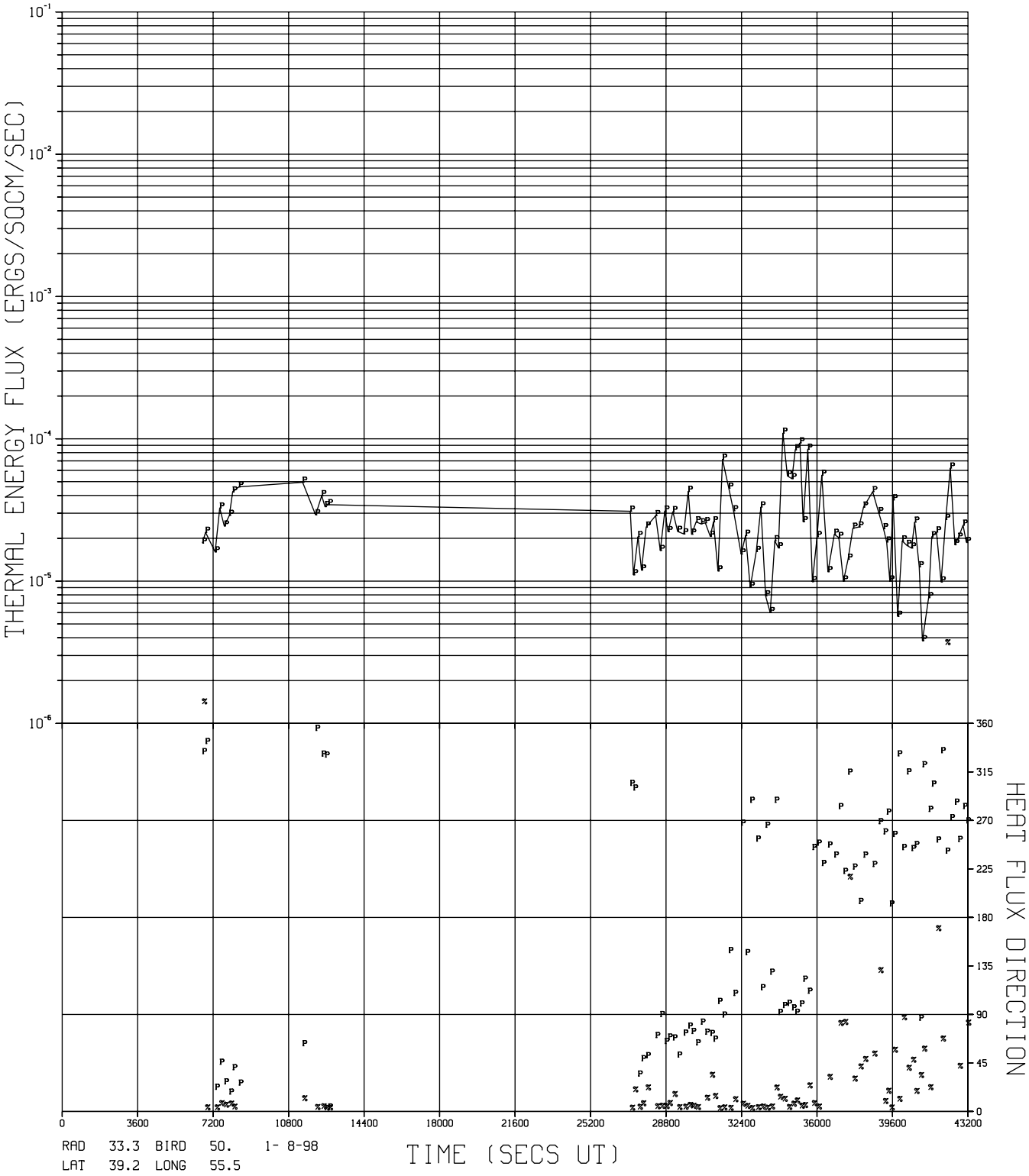

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.8 BIRD 50. 1- 7-98
LAT 38.2 LONG 31.7

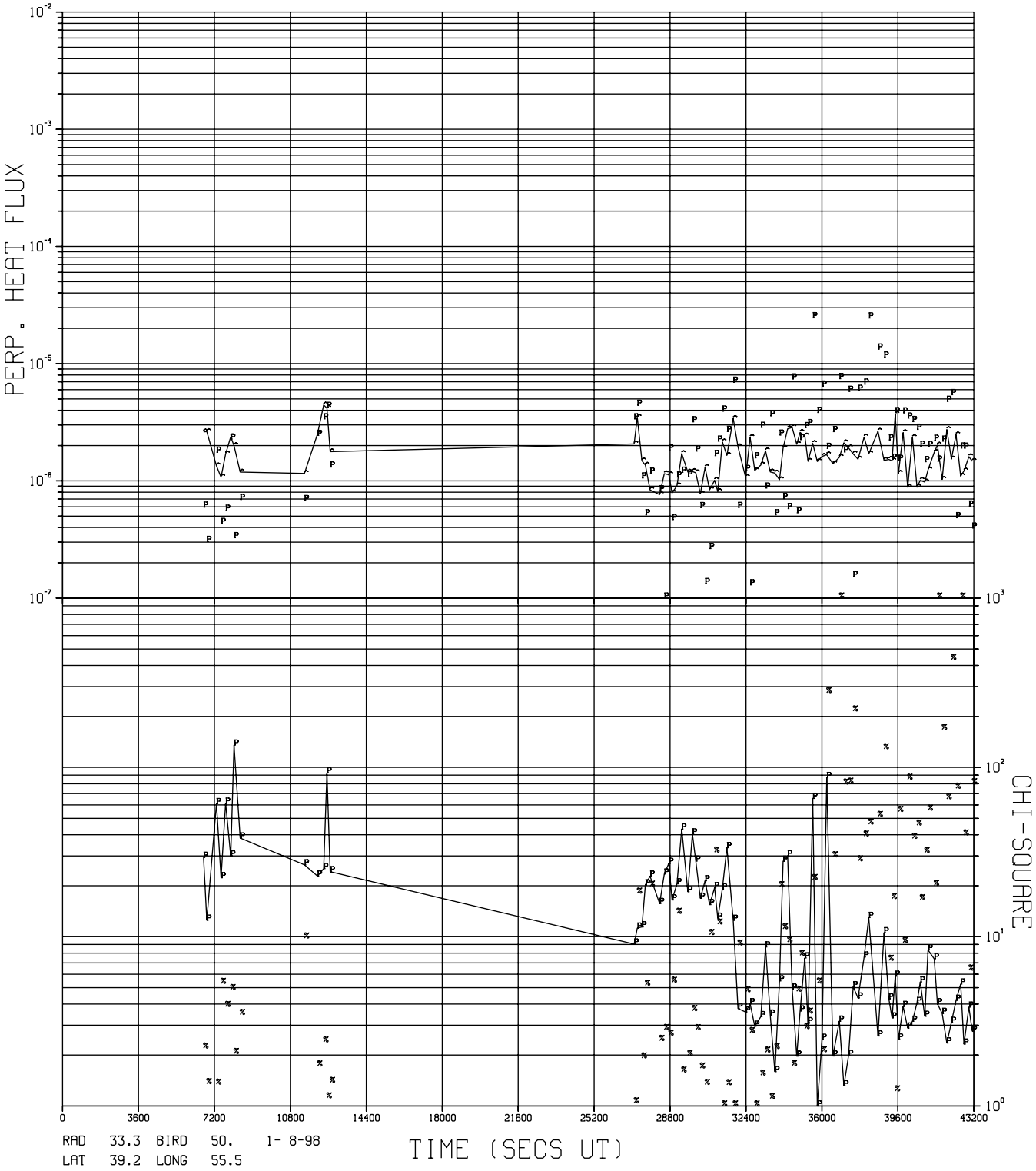

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

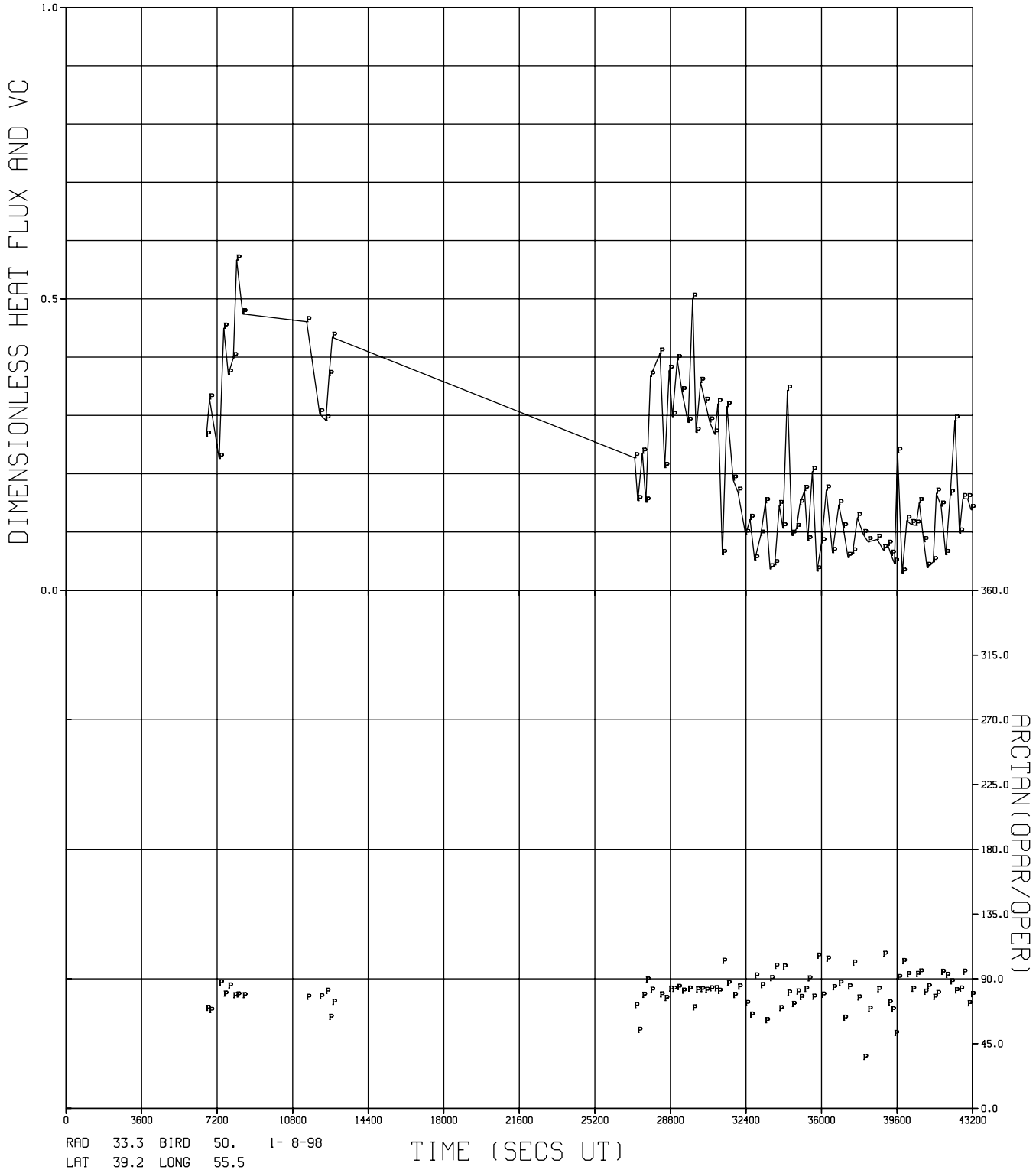

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

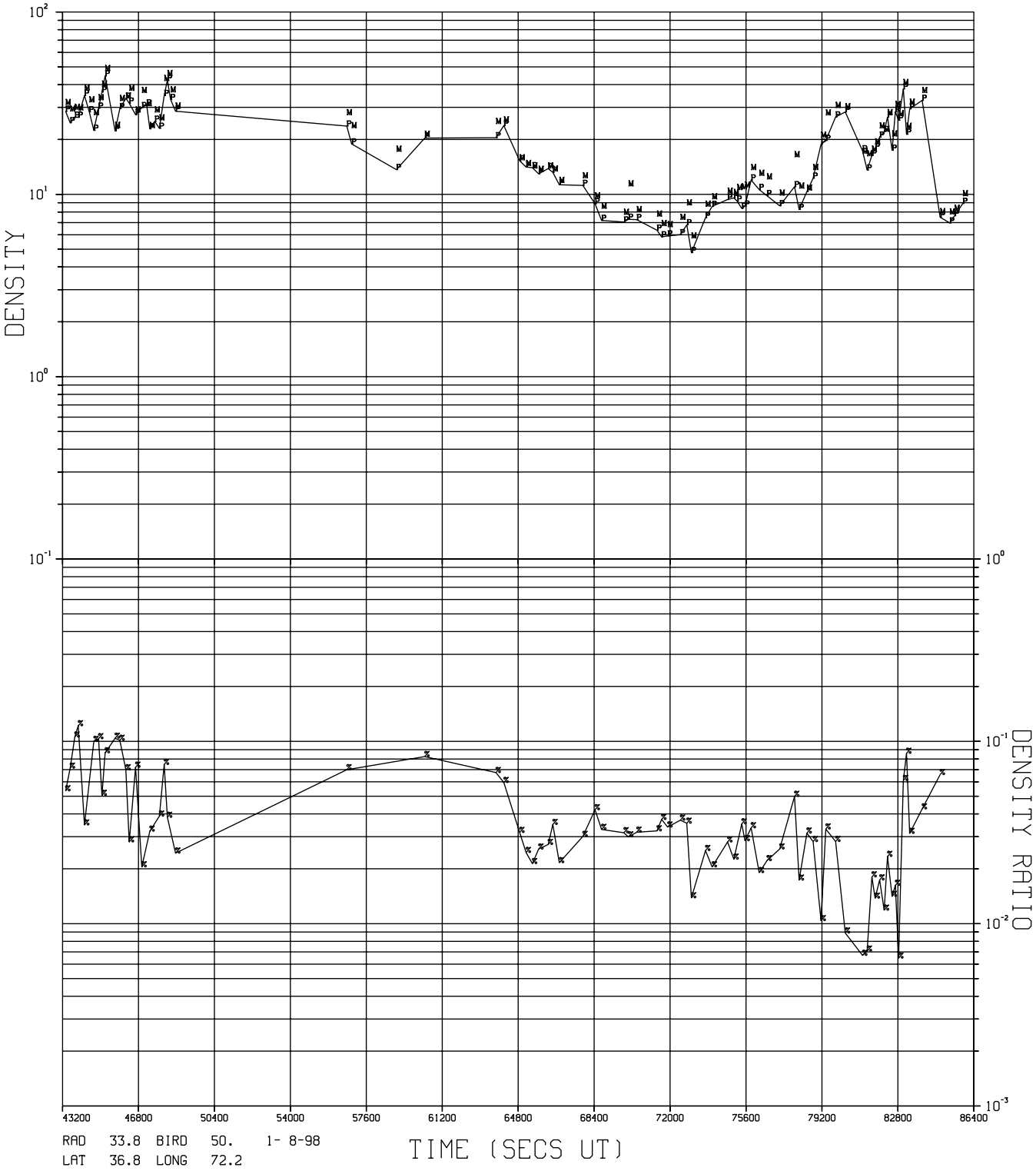

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

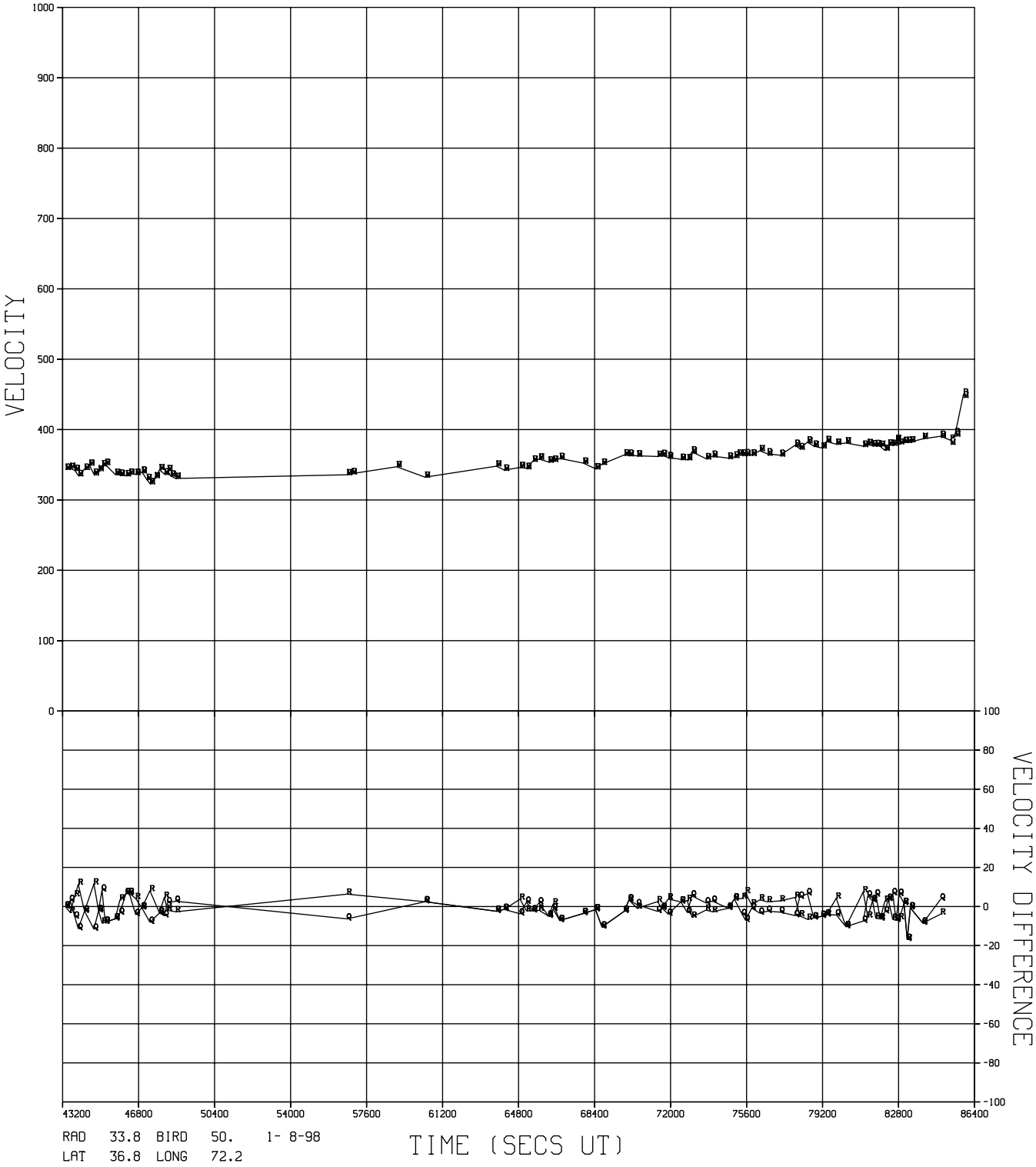

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

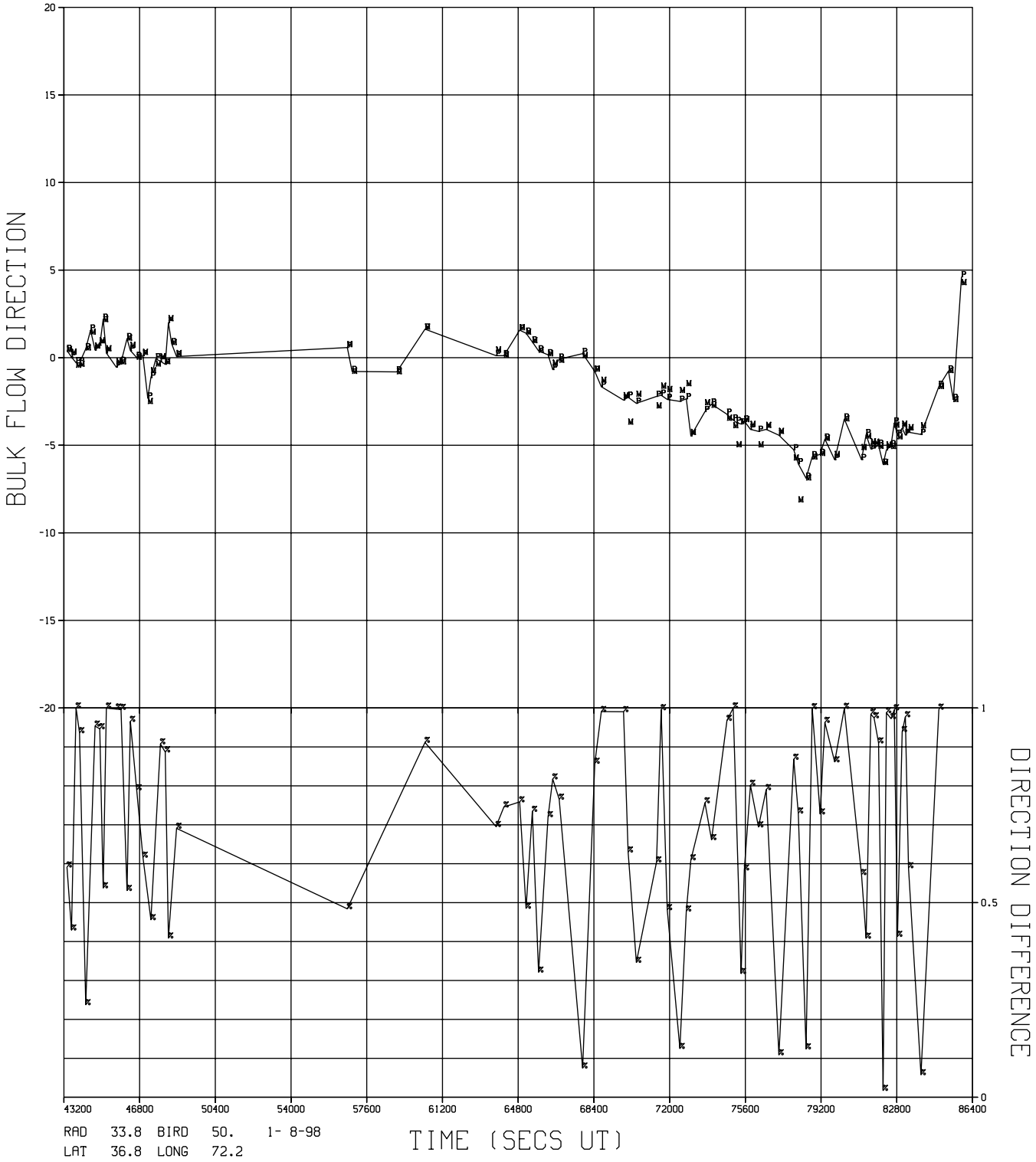

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

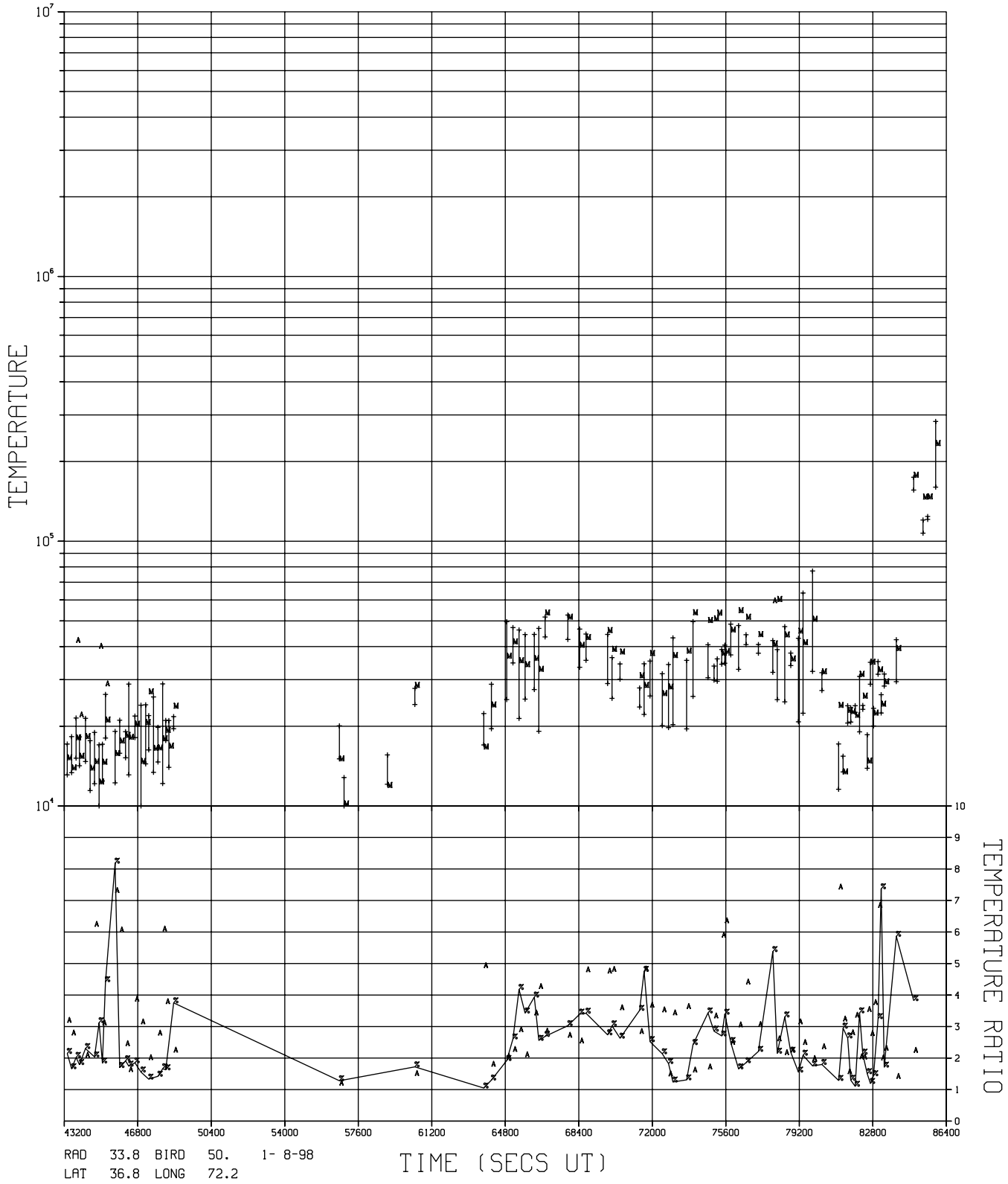

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

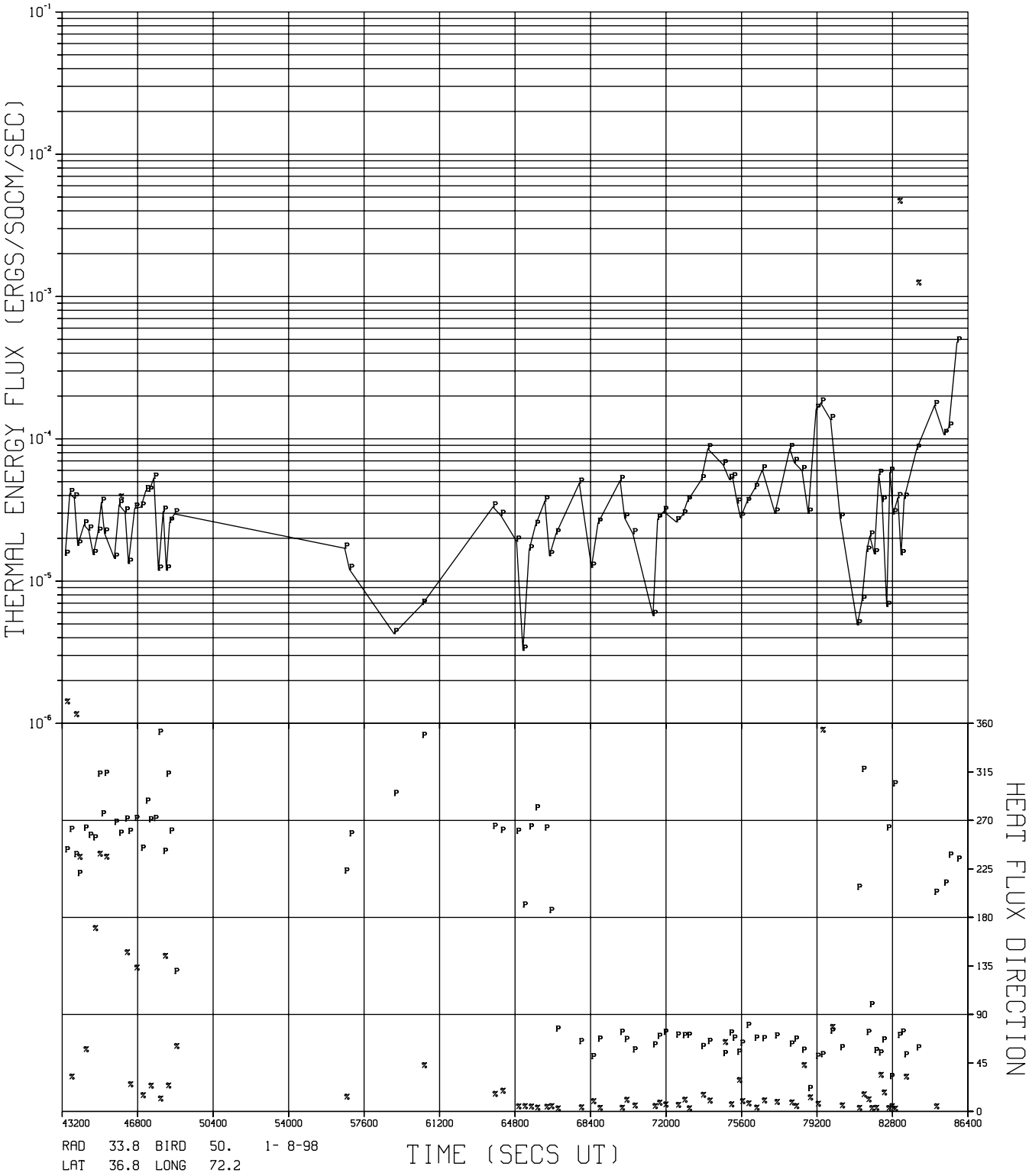

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 33.3 BIRD 50. 1- 8-98
LAT 39.2 LONG 55.5

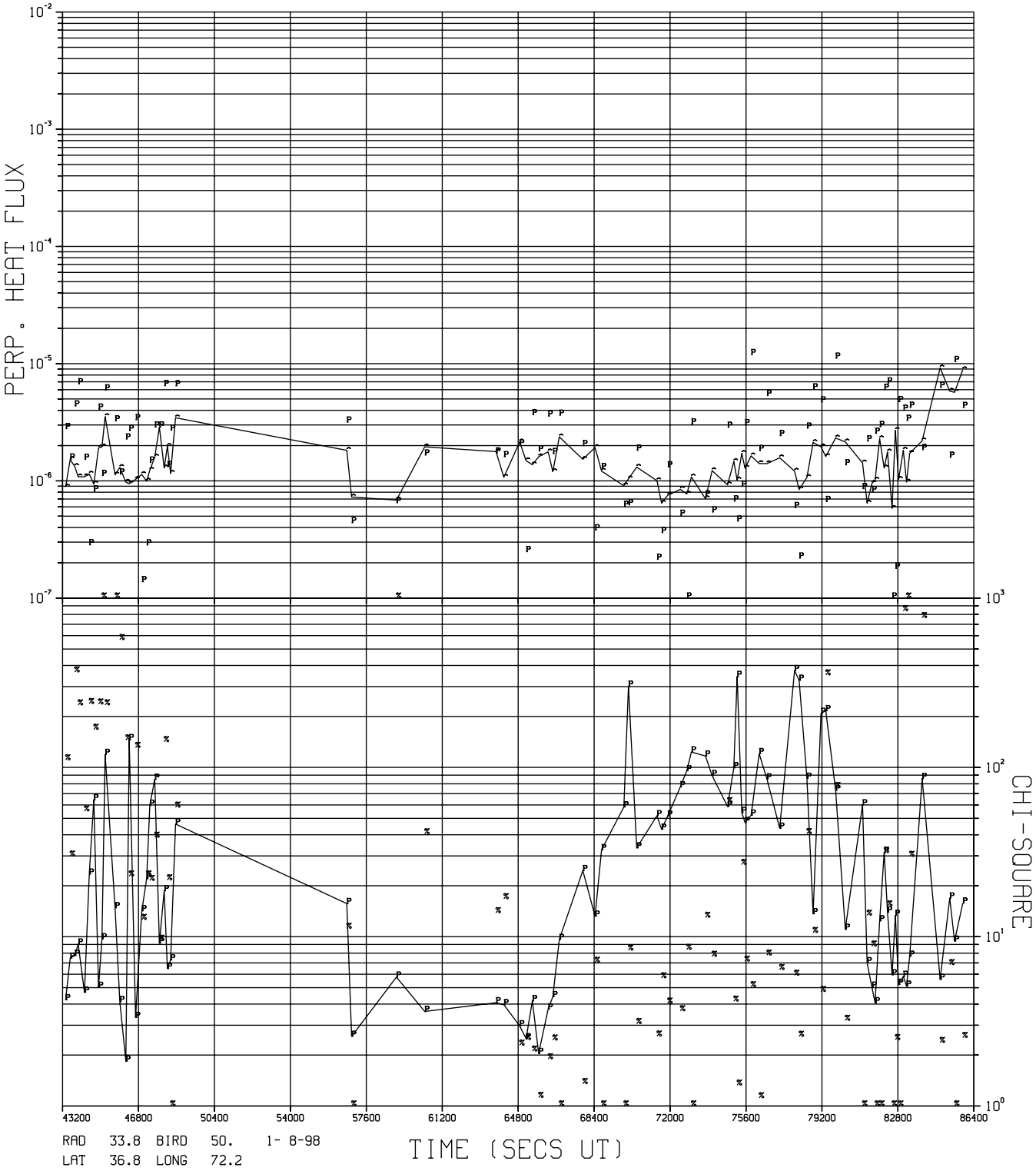

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

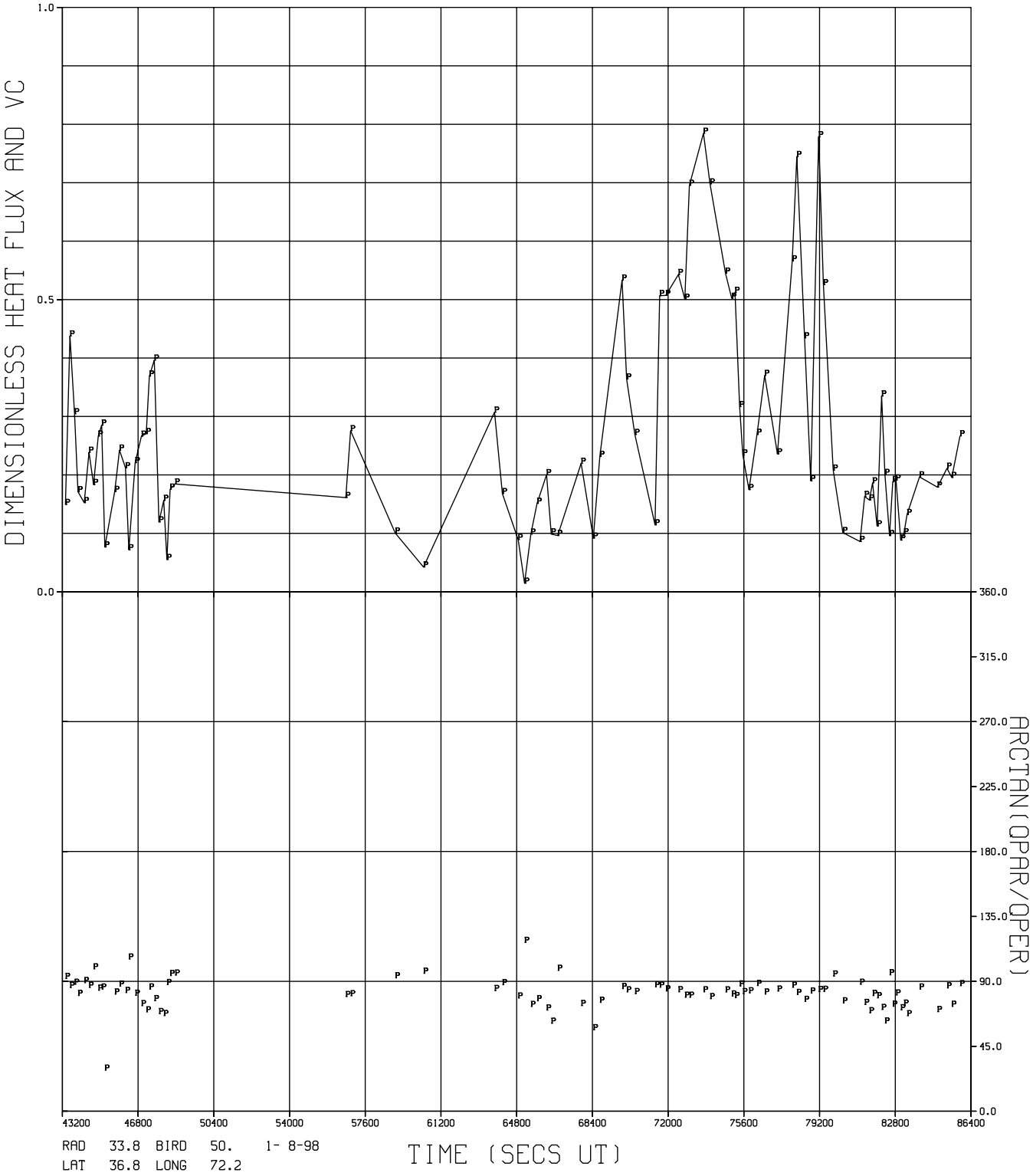

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2
TIME (SECS UT)

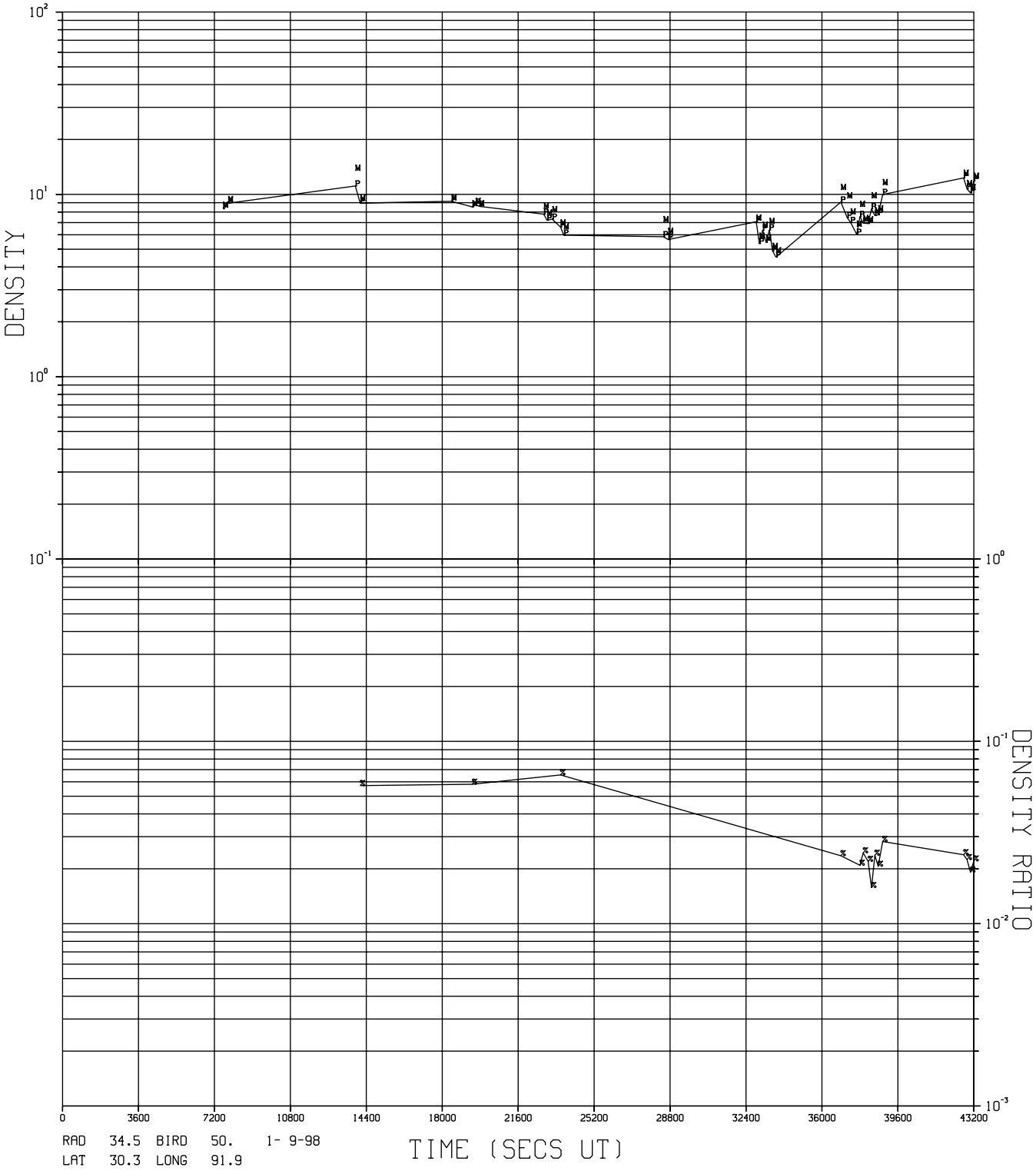

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

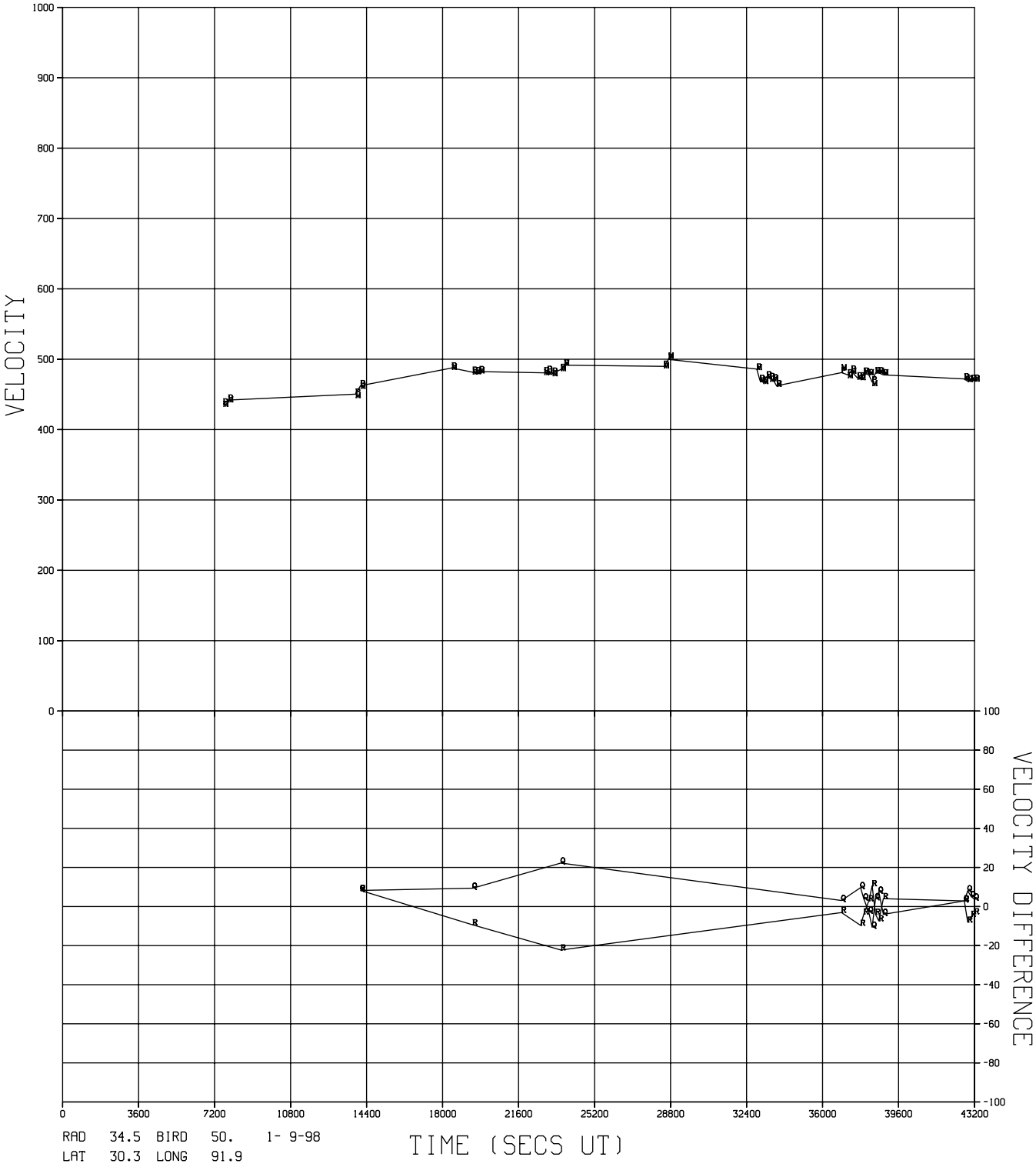

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

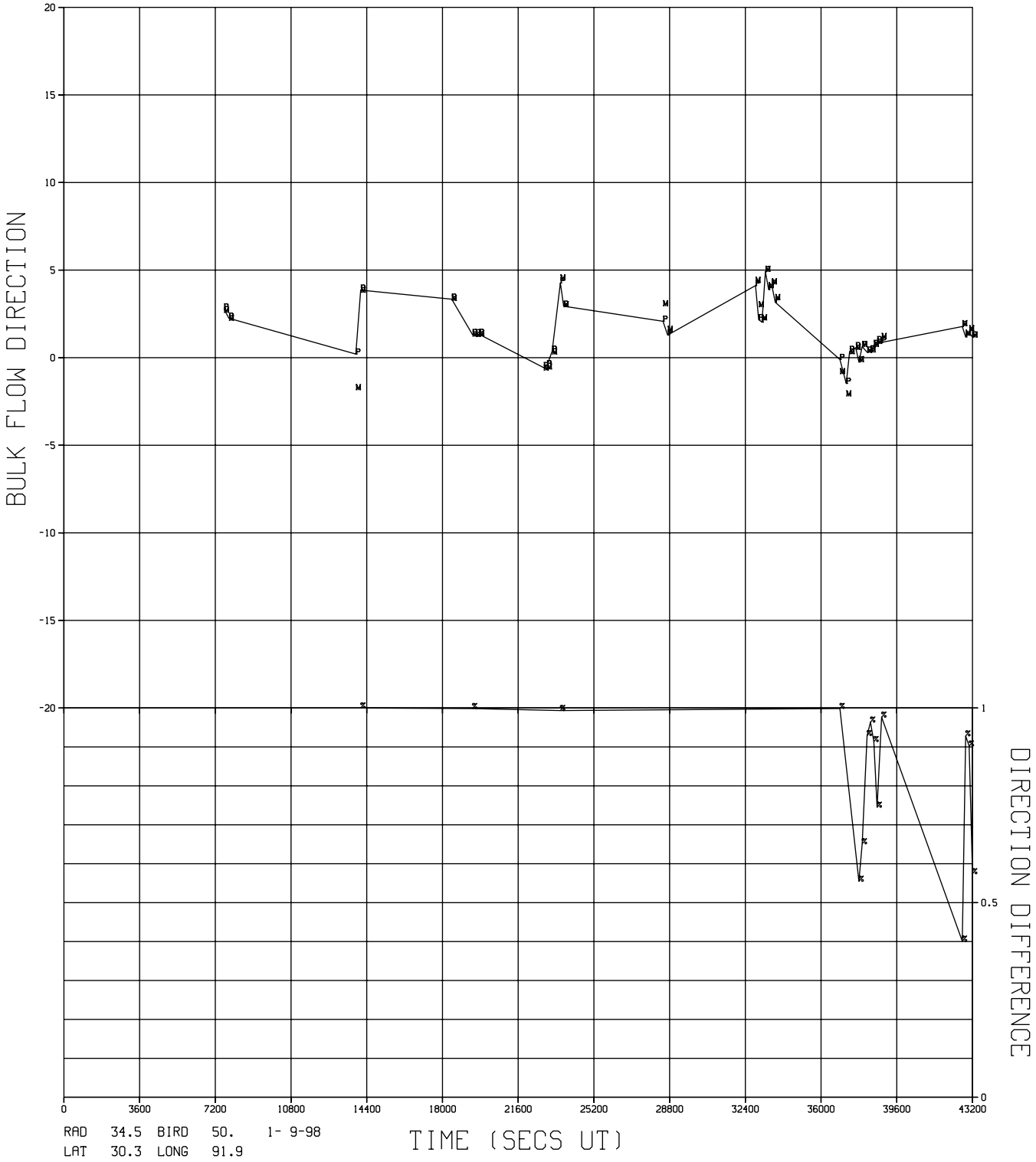

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

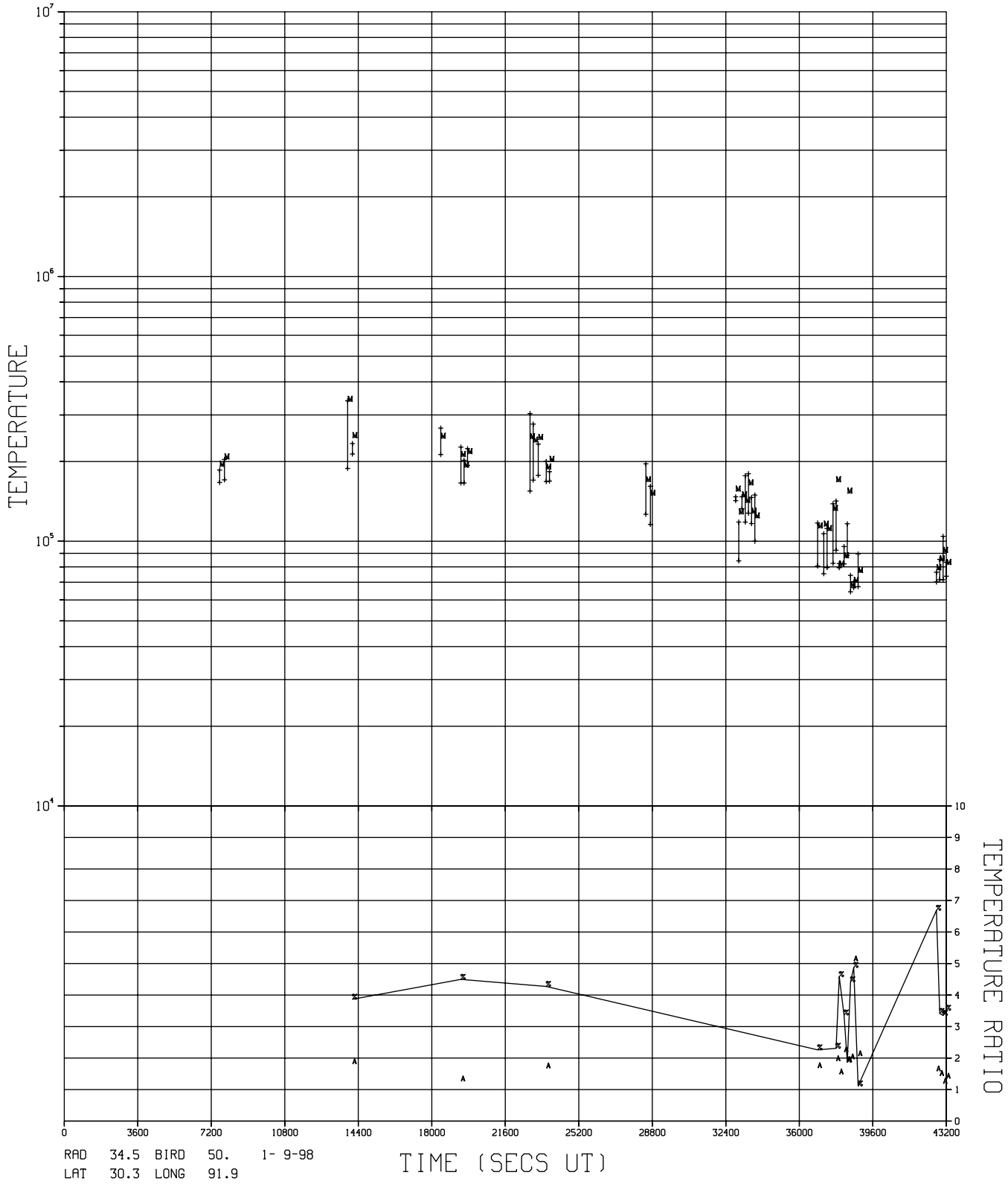

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

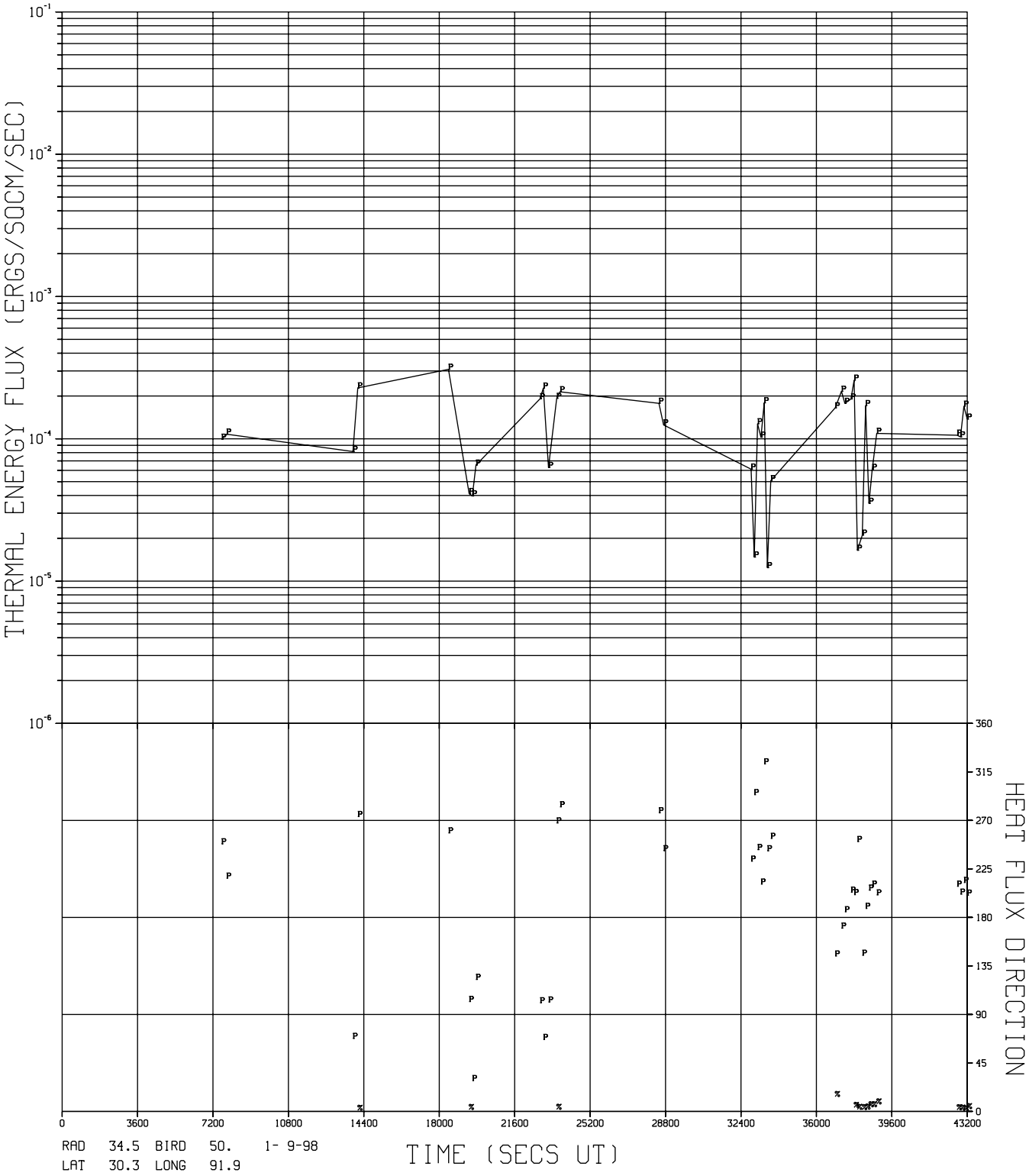

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 33.8 BIRD 50. 1- 8-98
LAT 36.8 LONG 72.2

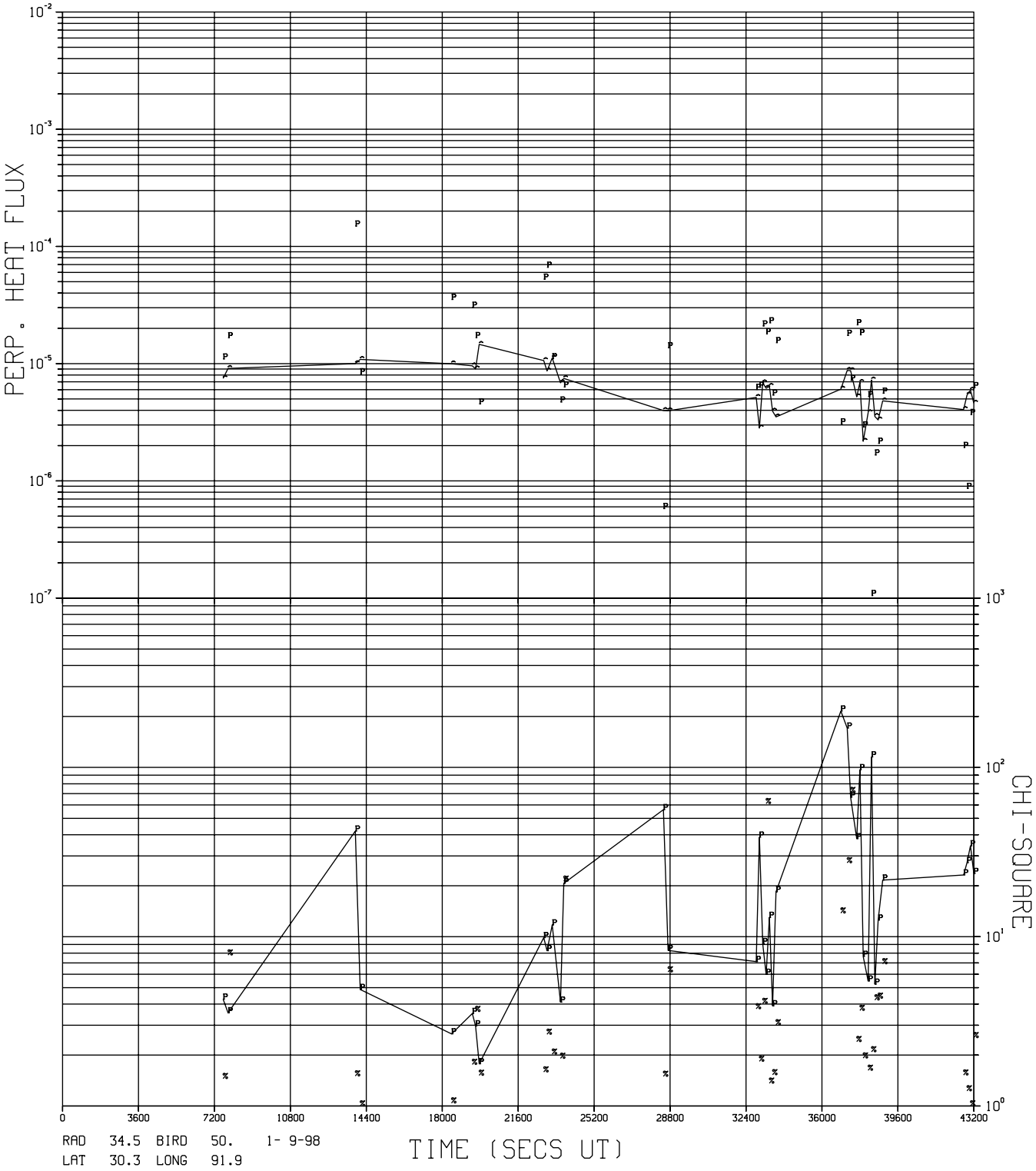

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

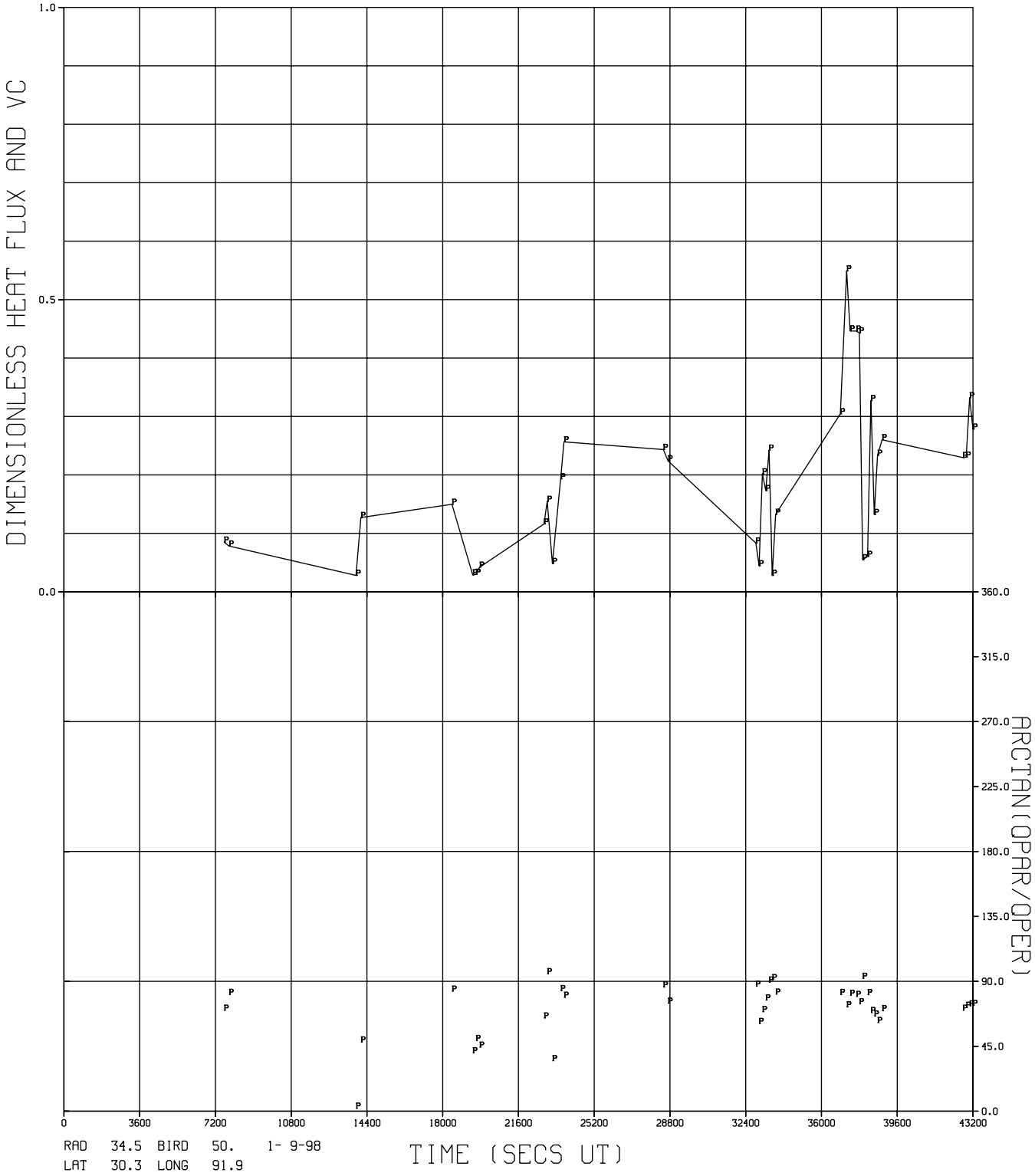

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
1000
900
800
700
600
500
400
300
200
100
0
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

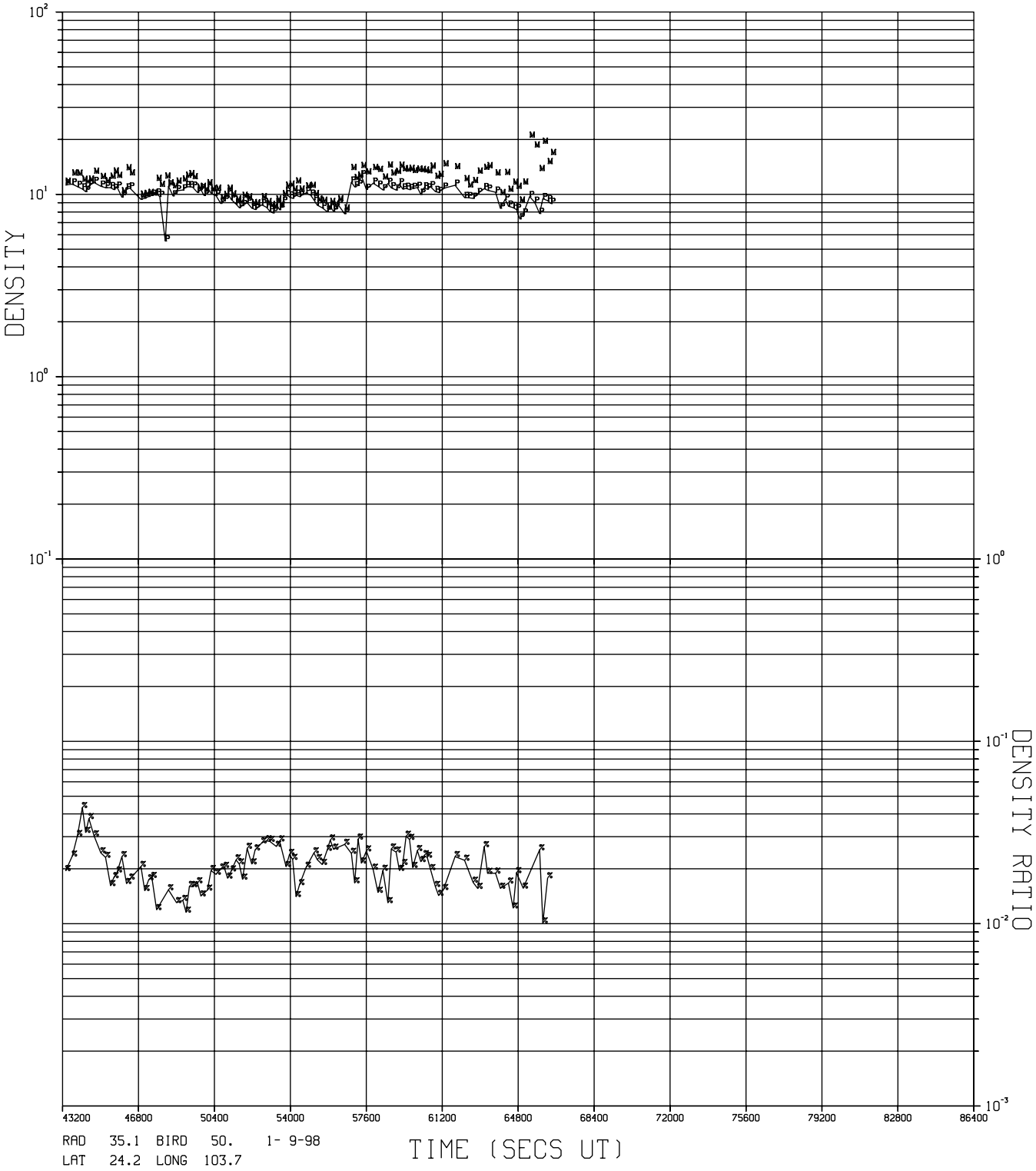

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

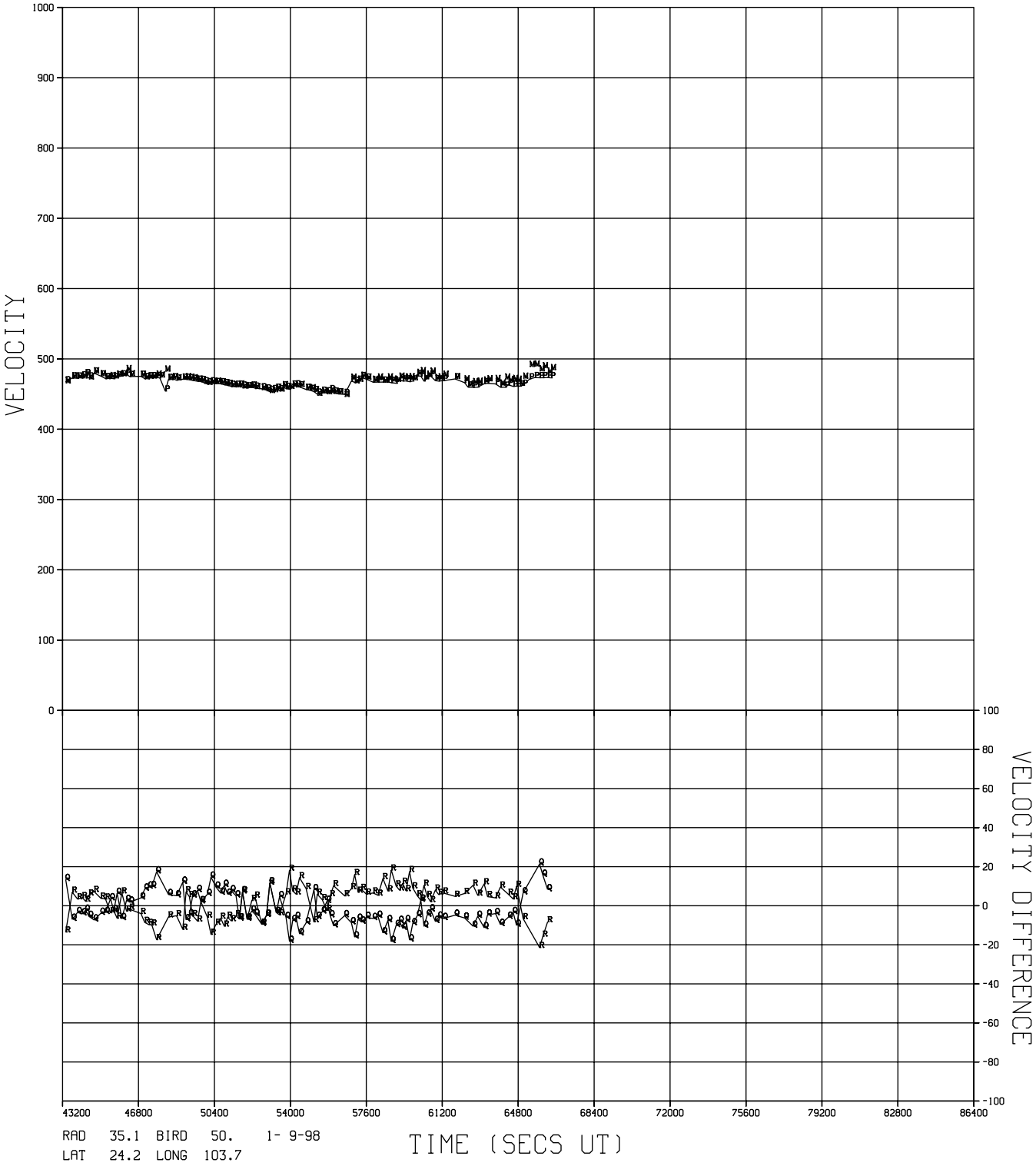

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

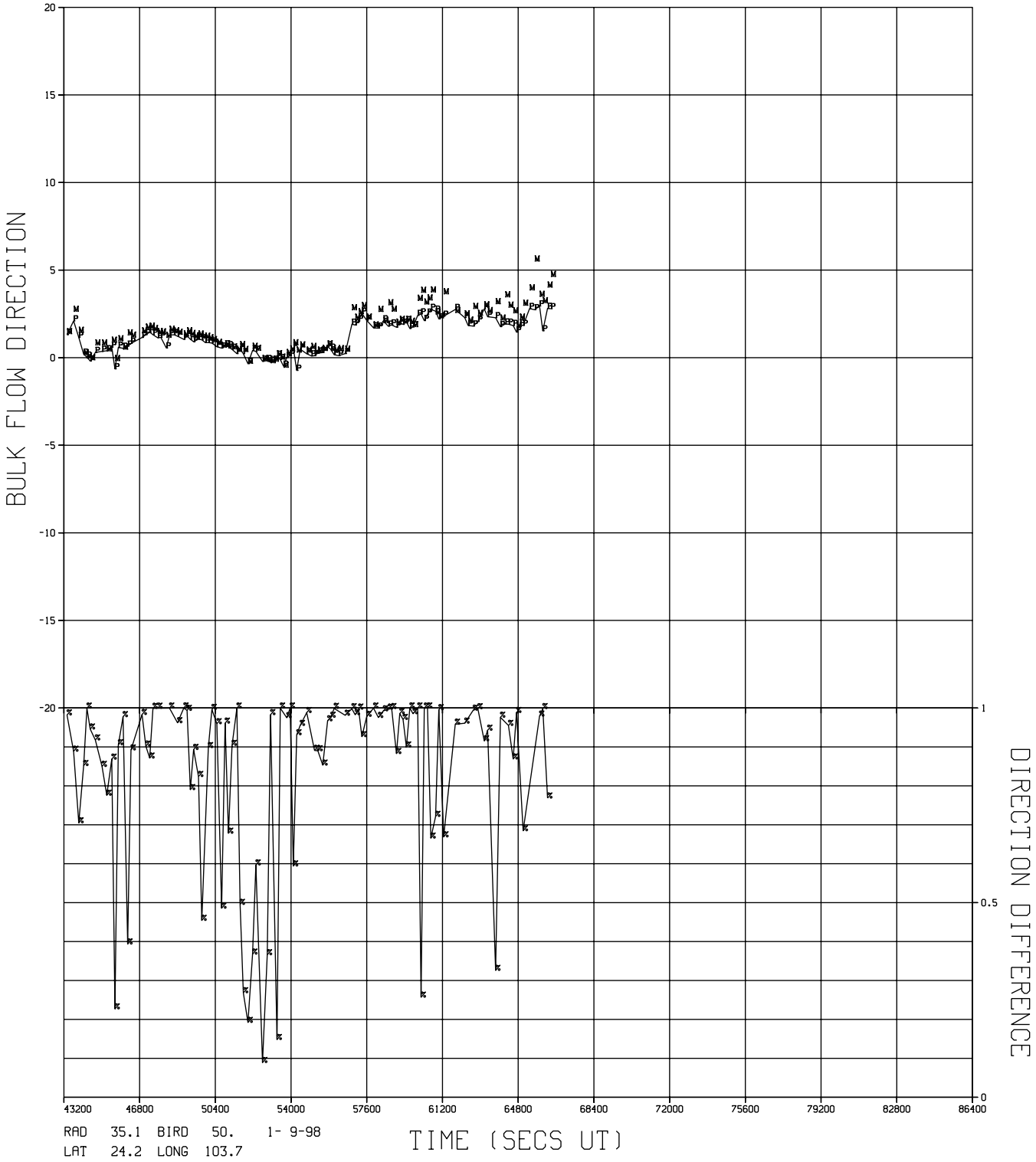

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

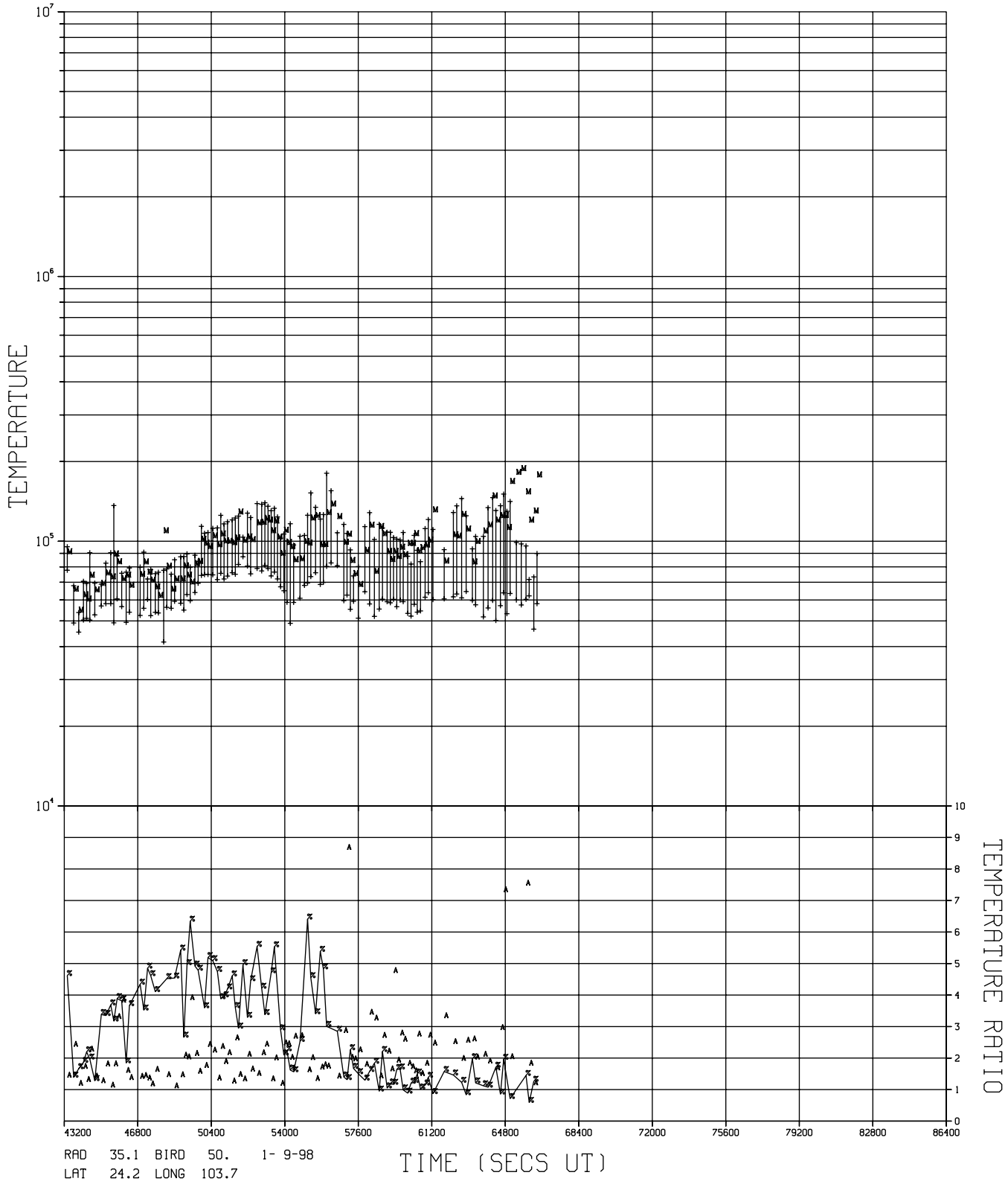

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

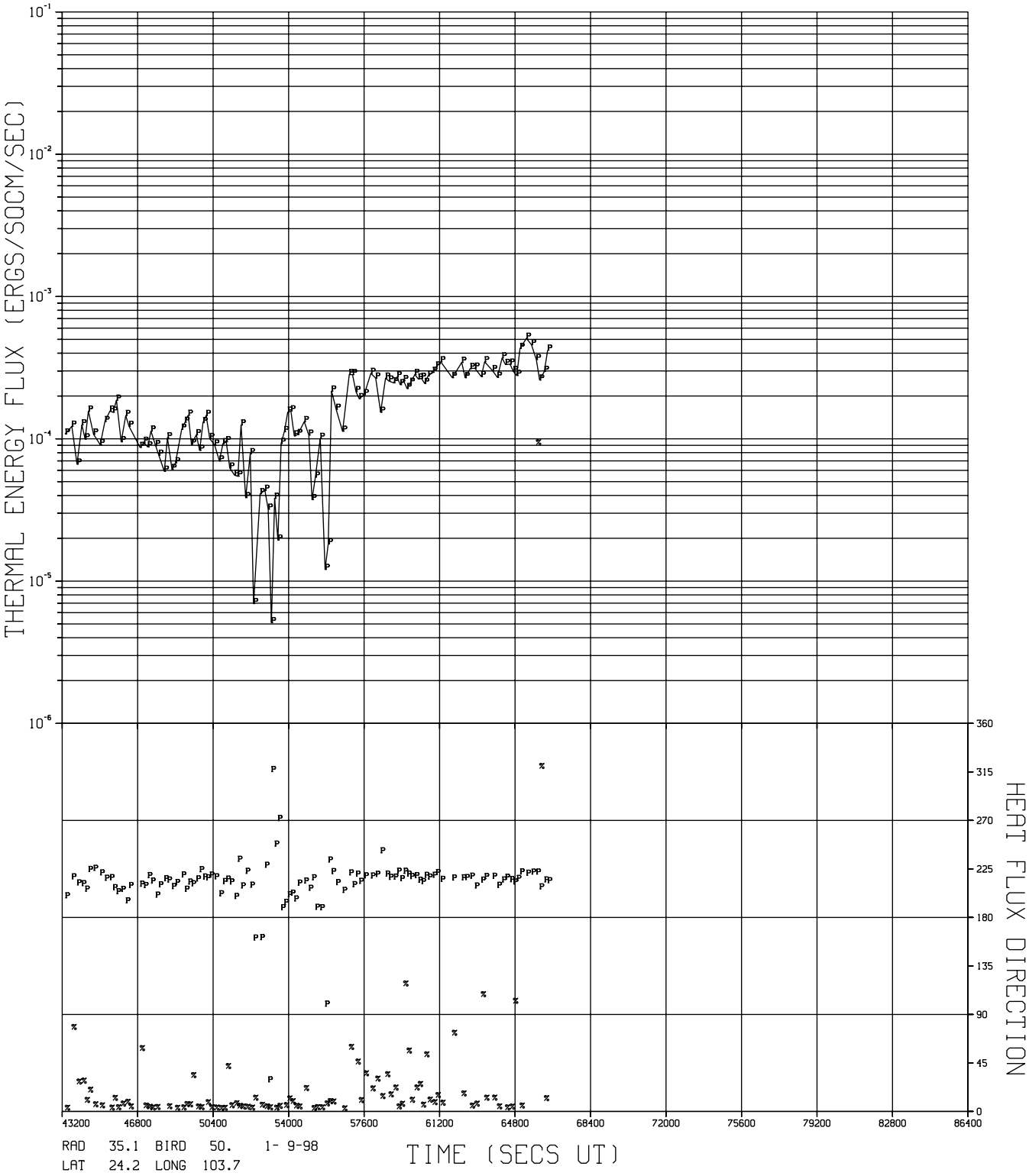

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 34.5 BIRD 50. 1- 9-98
LAT 30.3 LONG 91.9

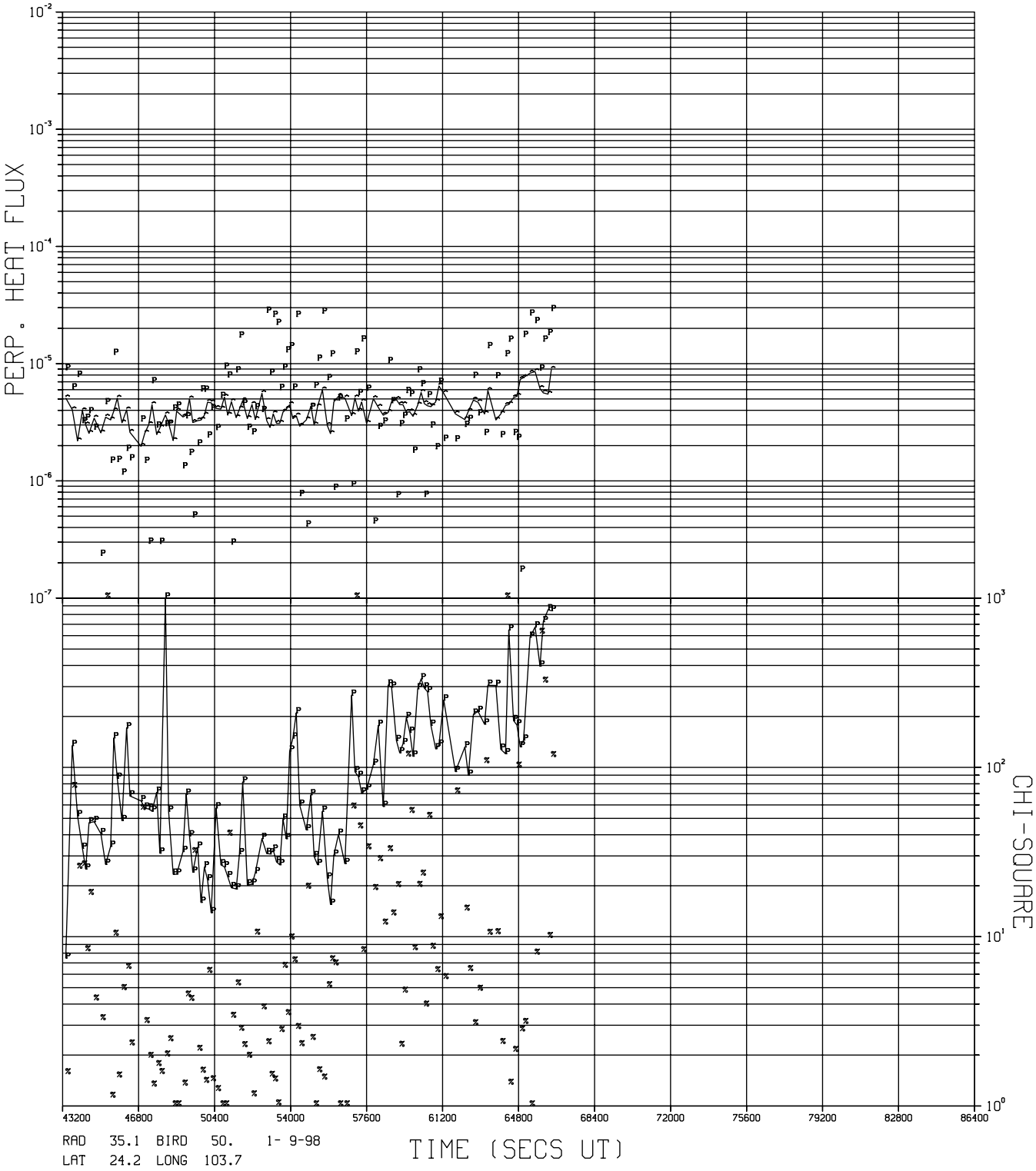

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7

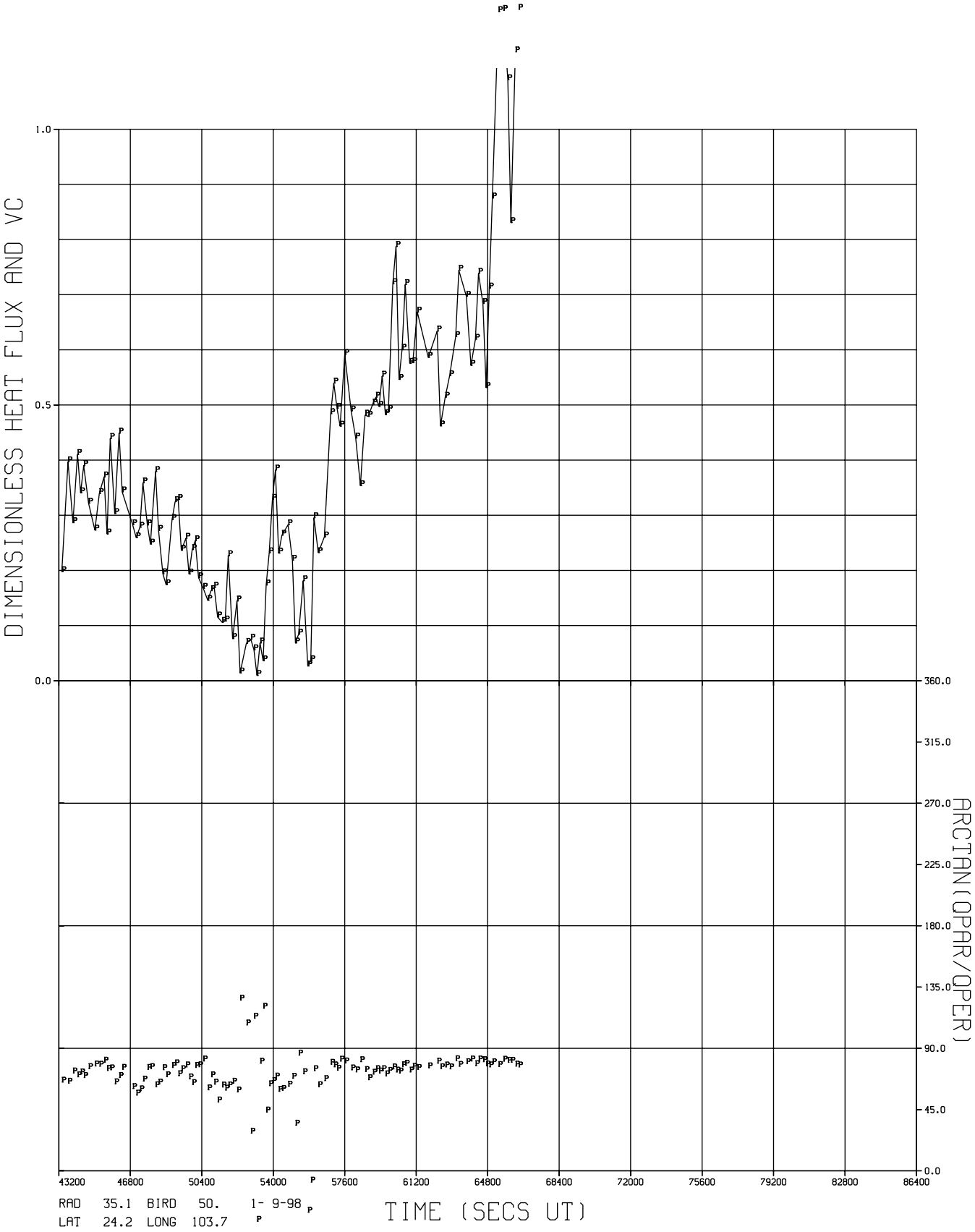

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7


BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7


DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.1 BIRD 50. 1- 9-98
LAT 24.2 LONG 103.7