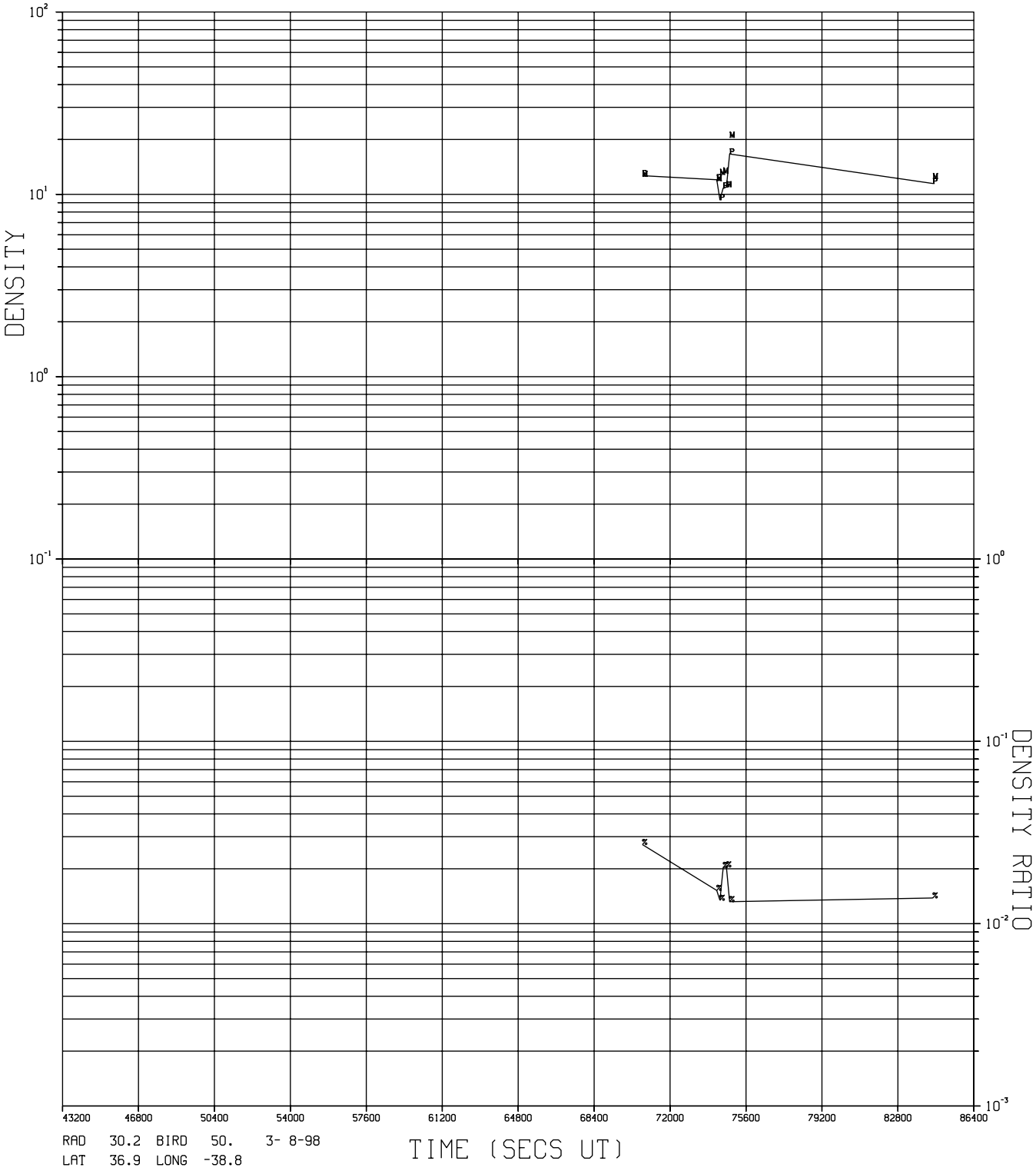
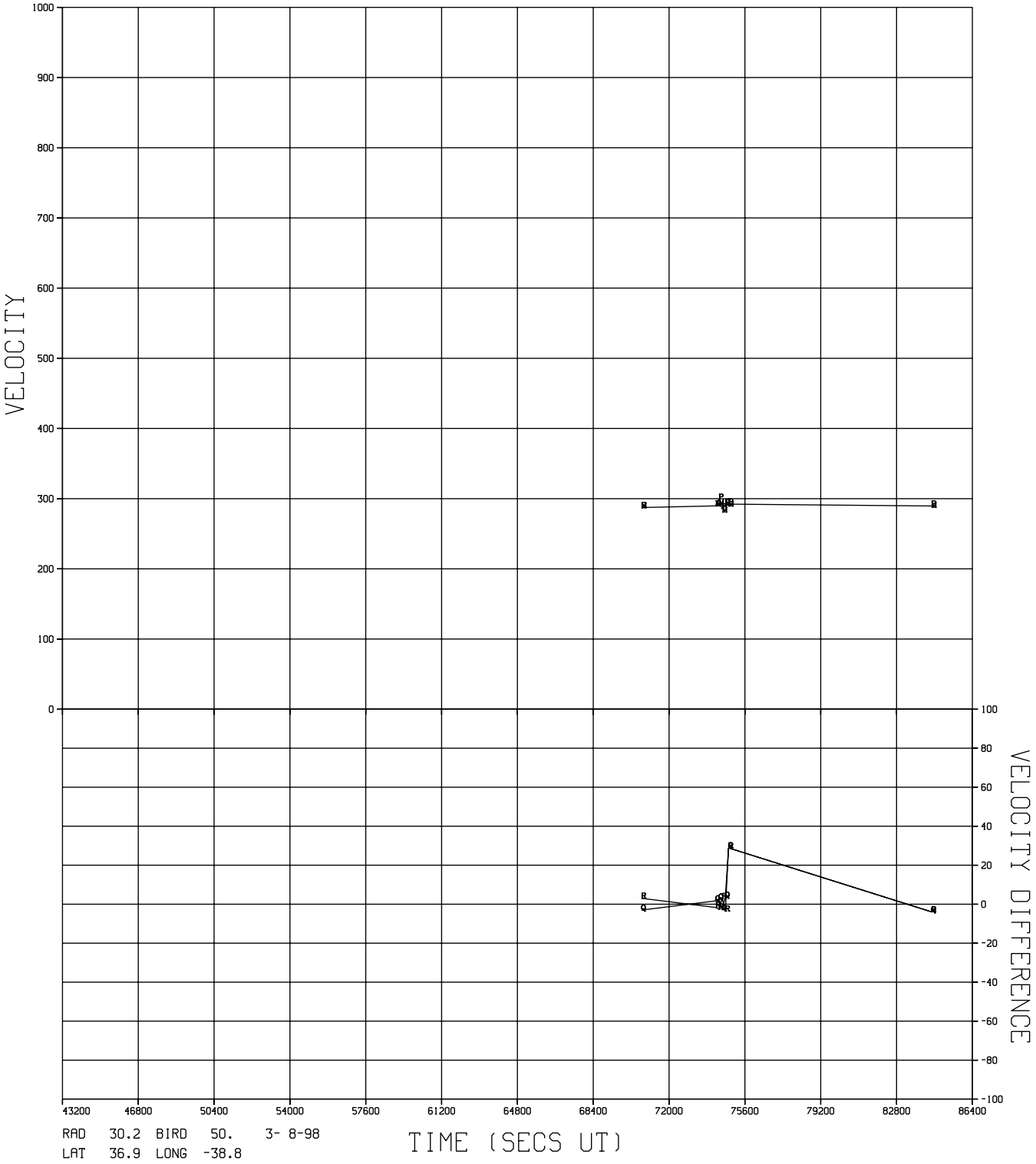
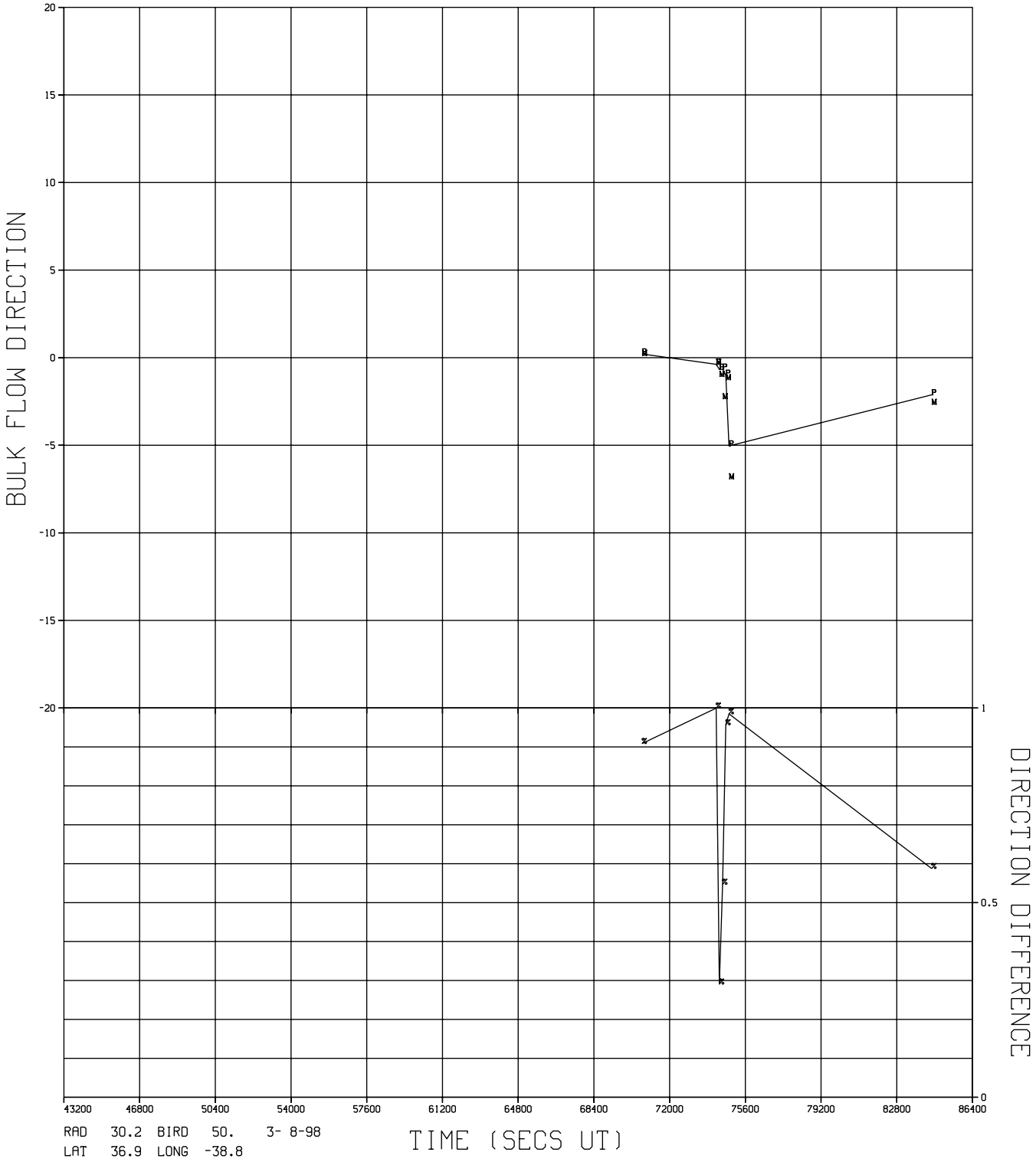
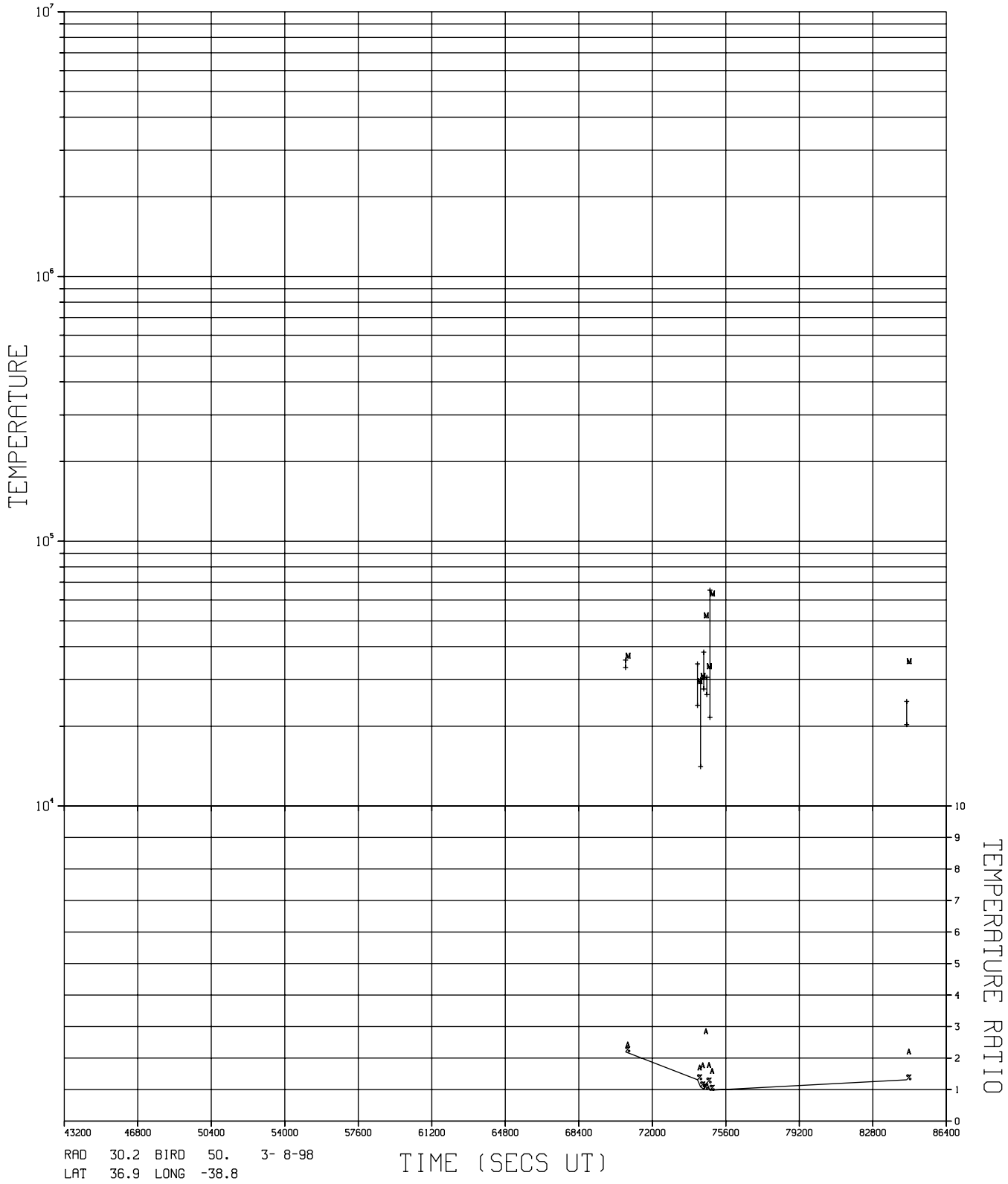
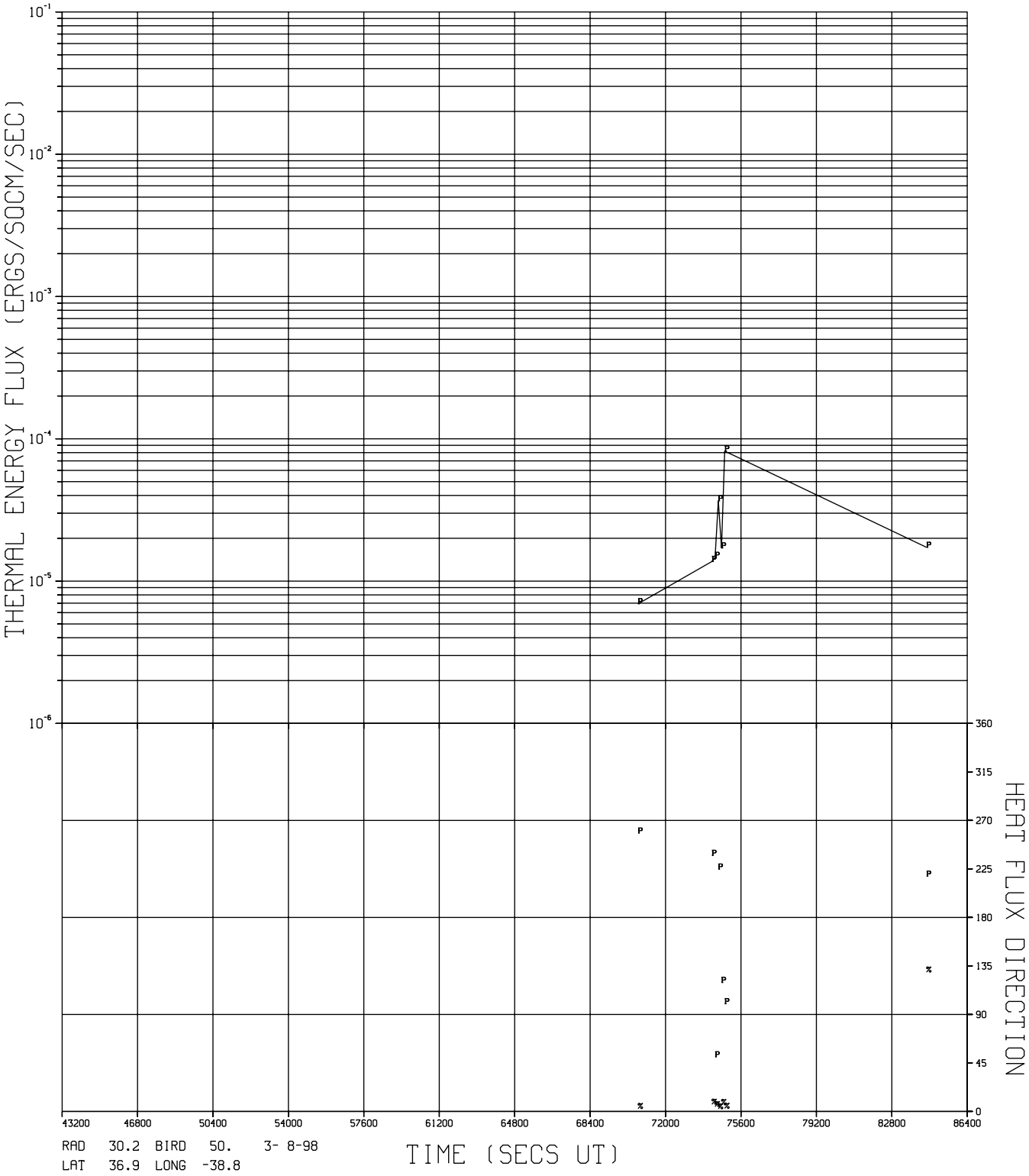

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

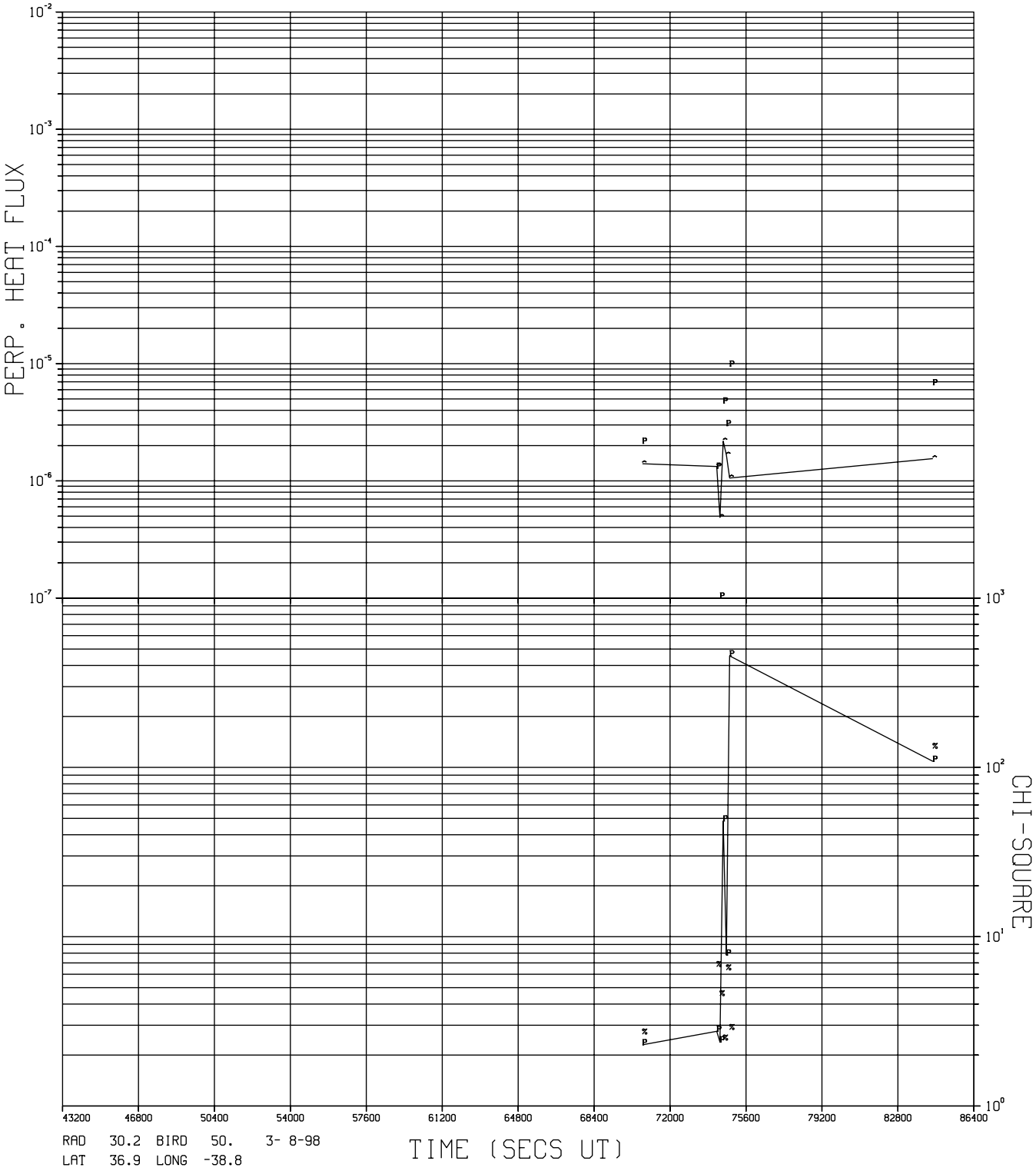


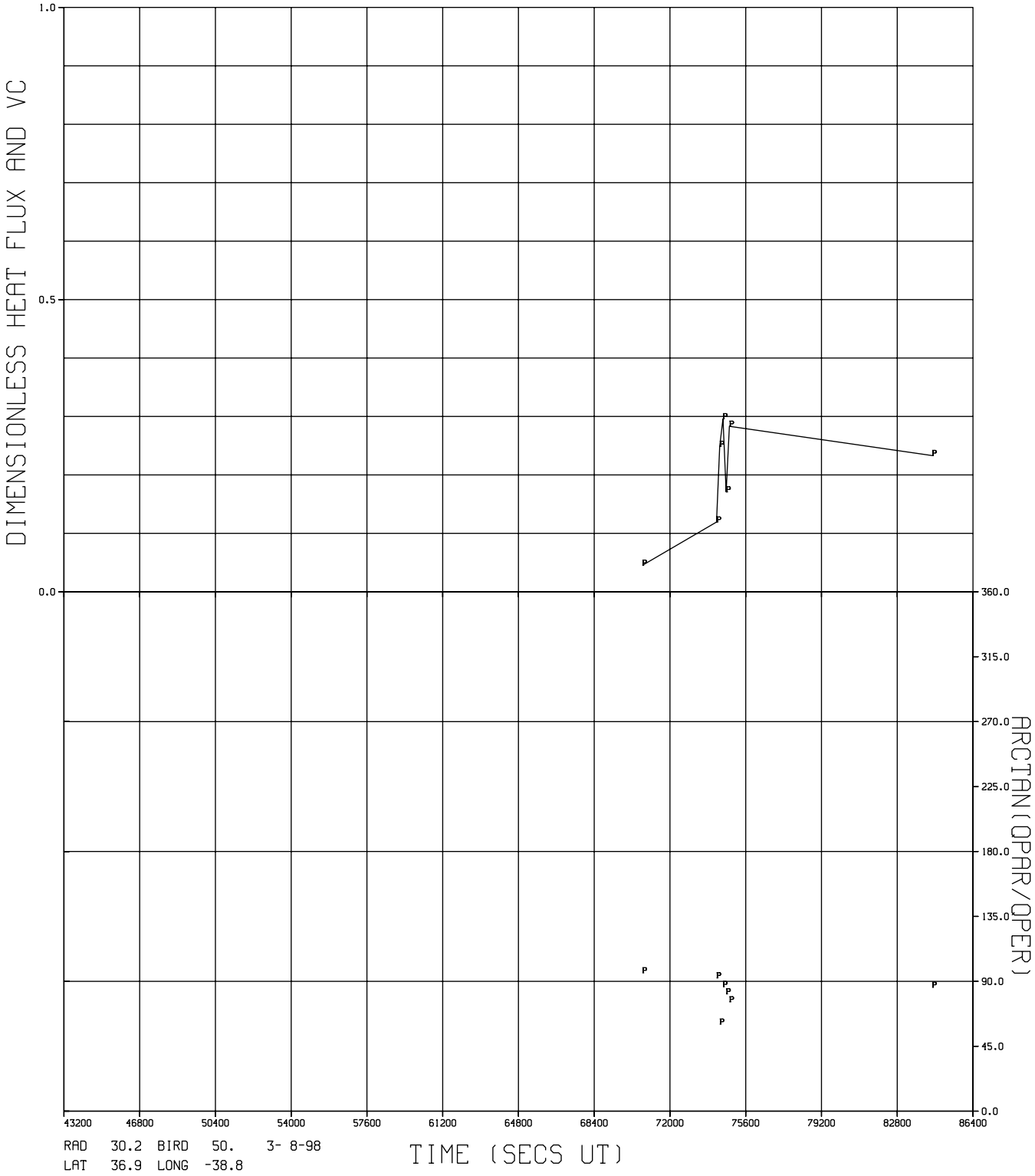
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

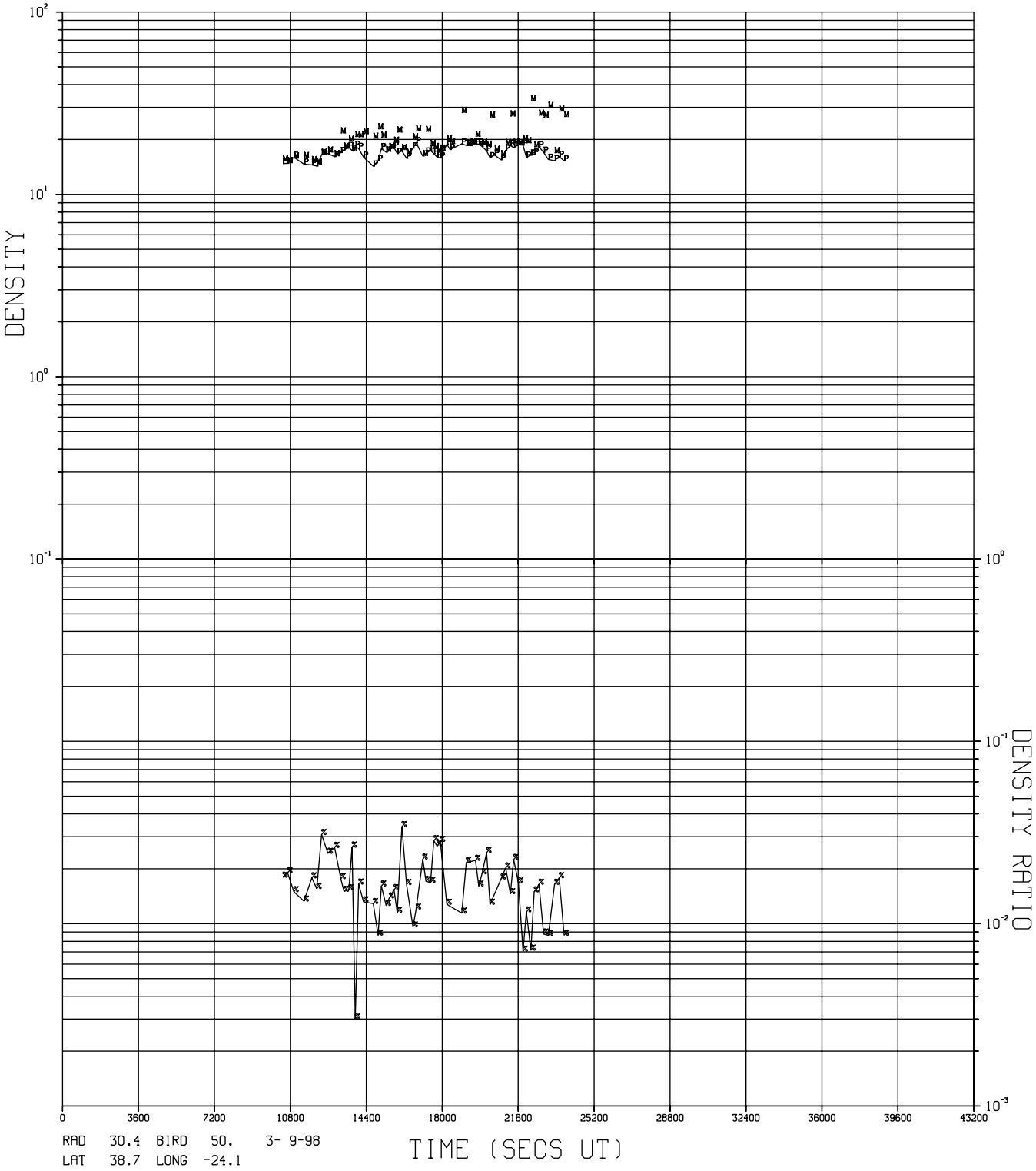

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

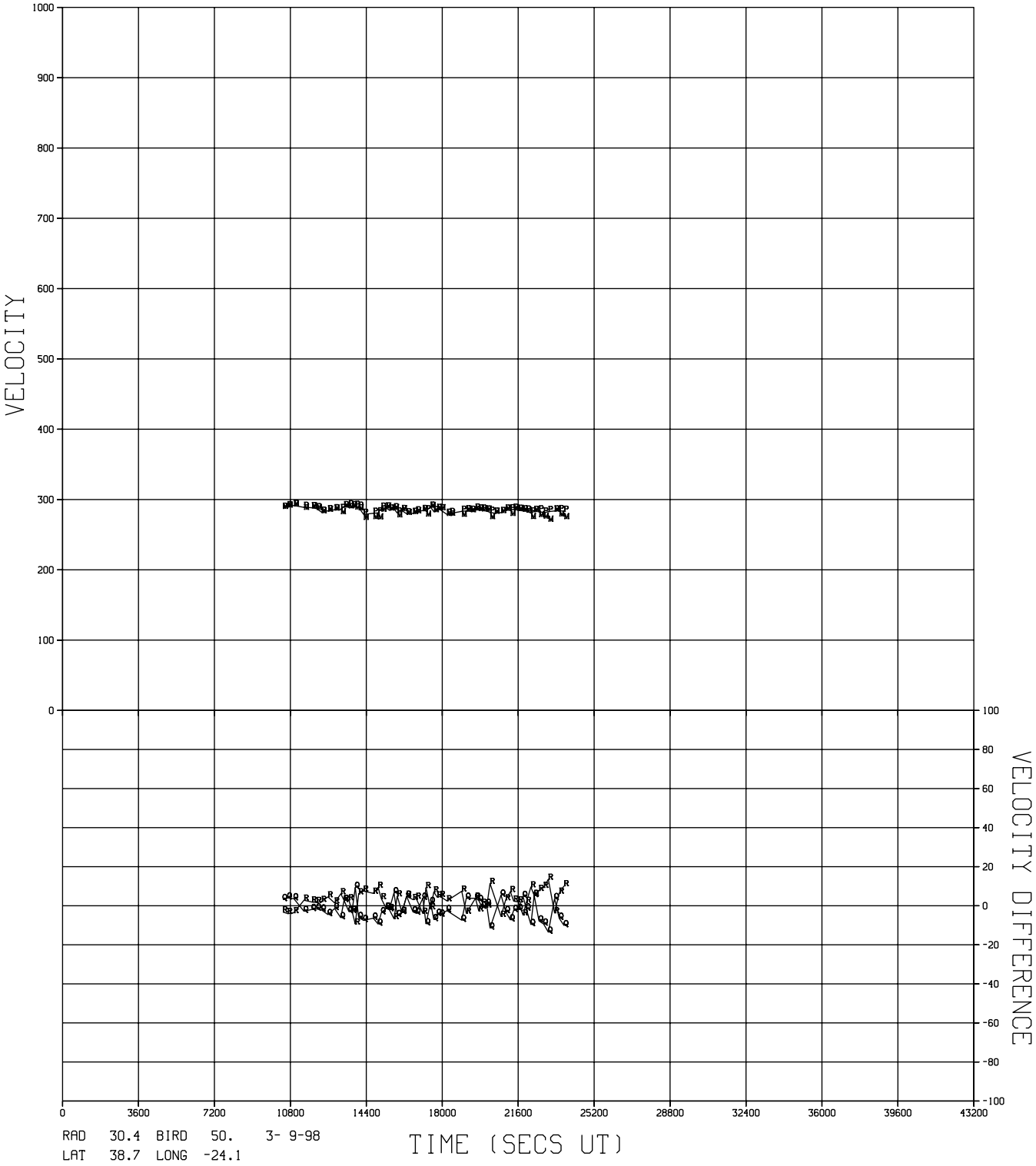

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
10^7
10^6
10^5
10^4
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
0
1
2
3
4
5
6
7
8
9
10
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

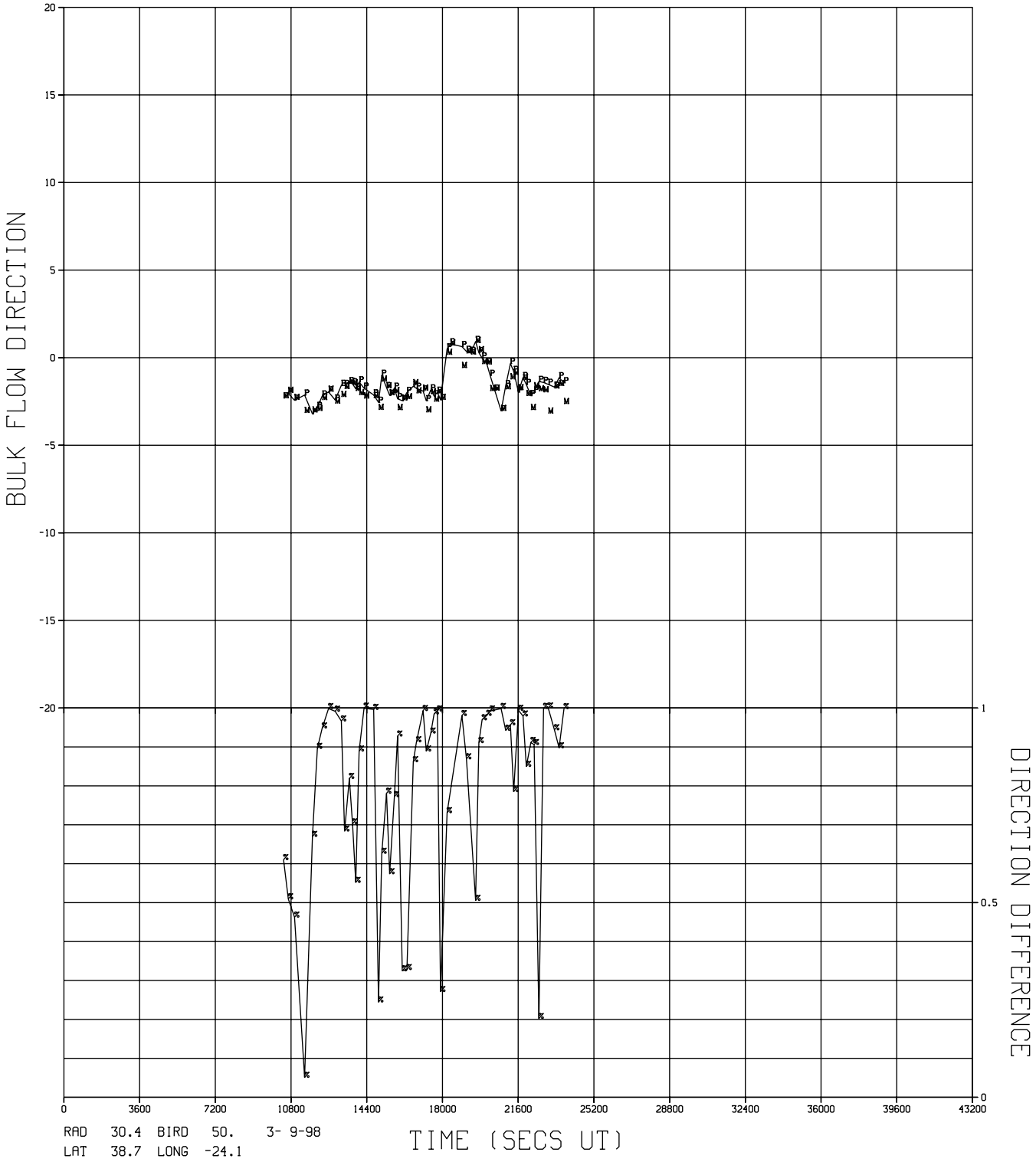

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

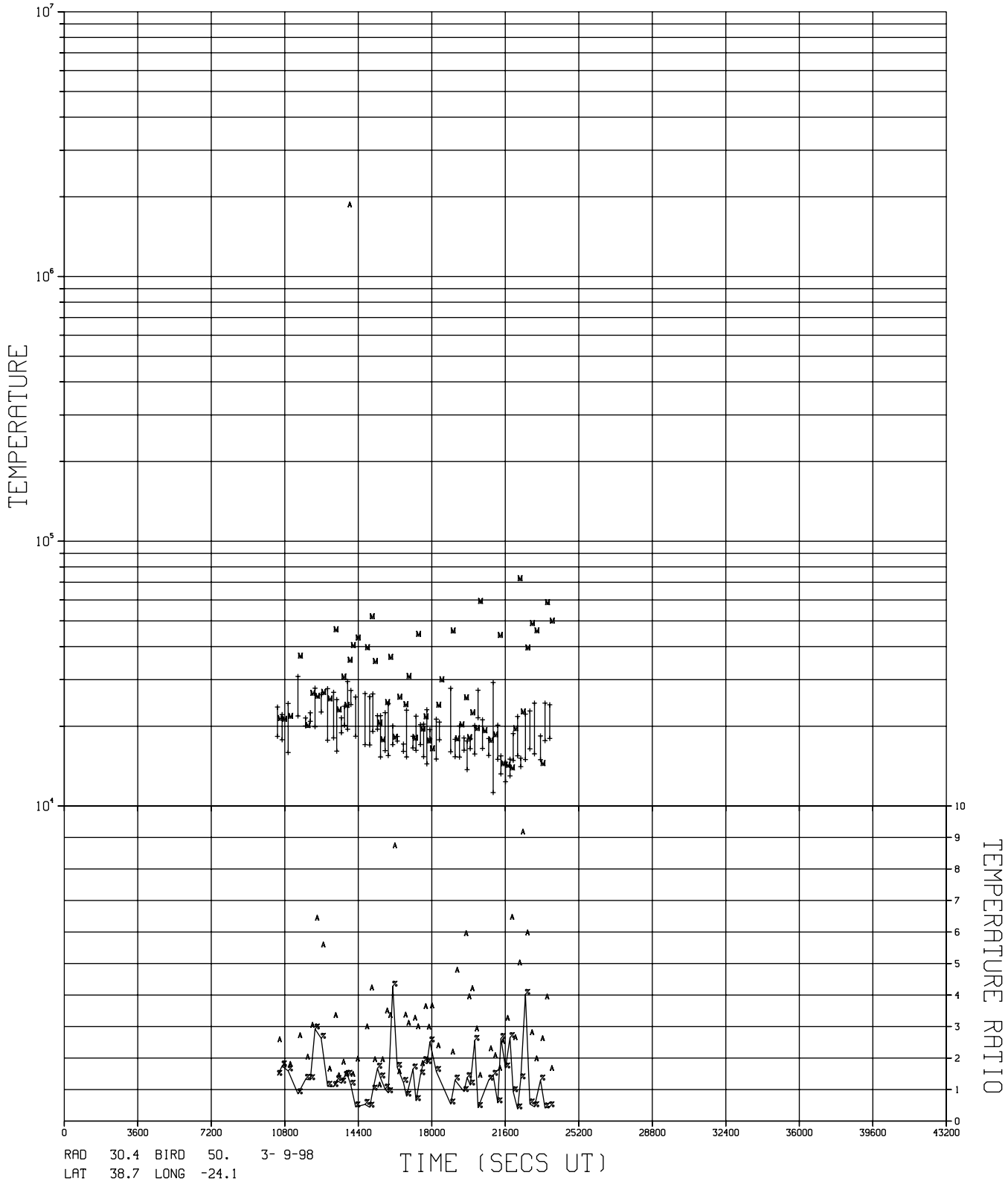

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

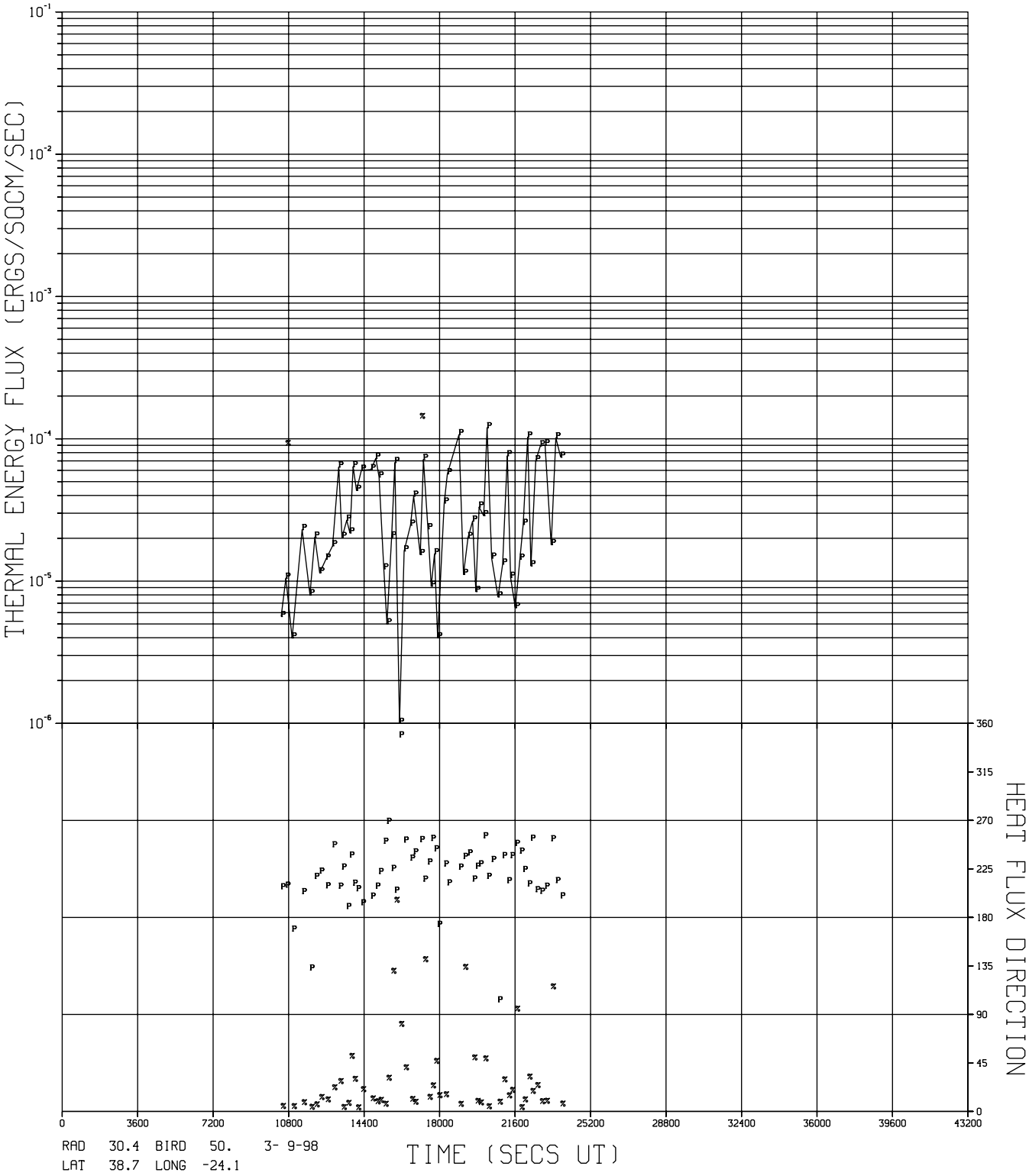

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 30.2 BIRD 50. 3- 8-98
LAT 36.9 LONG -38.8

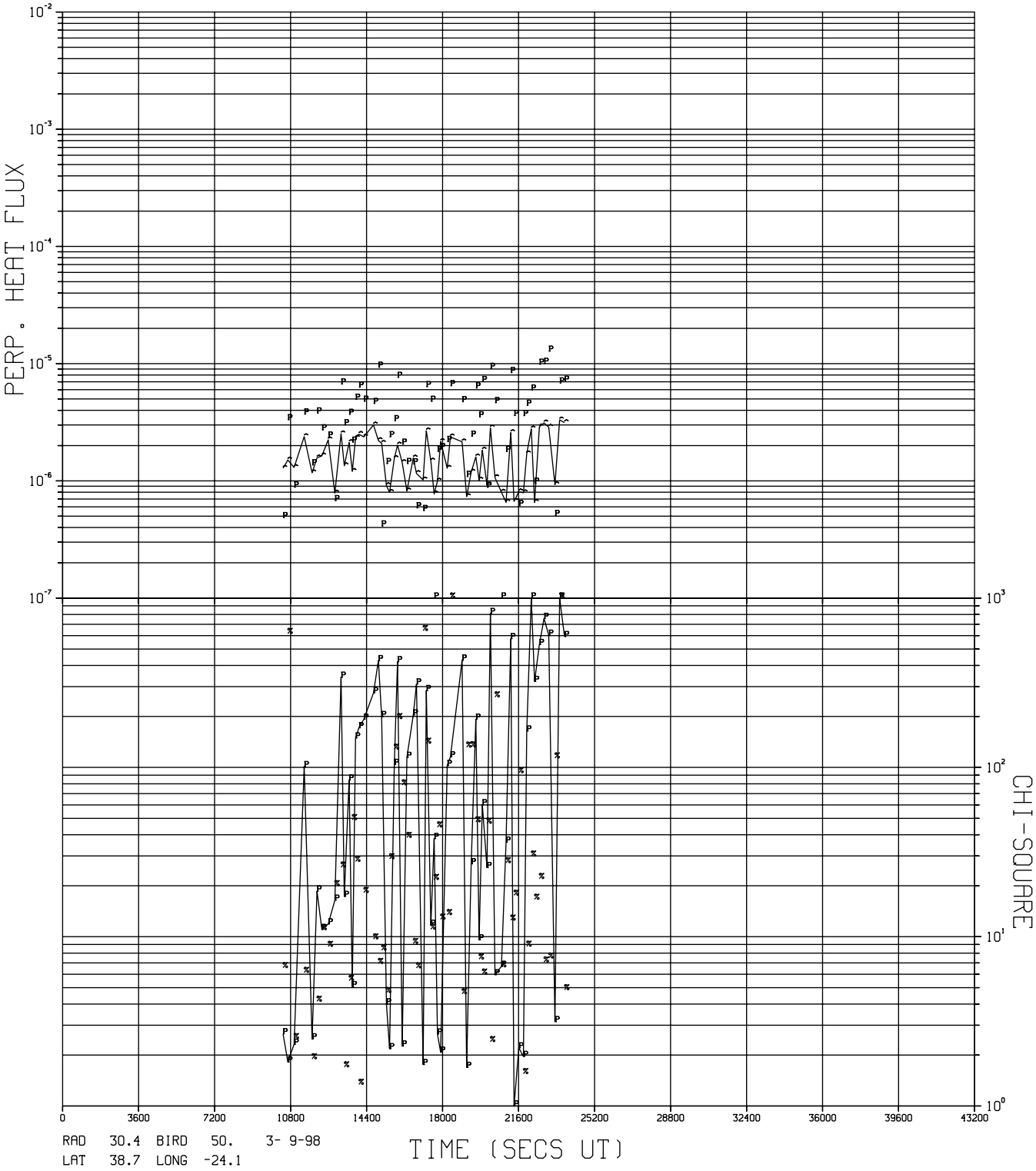

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

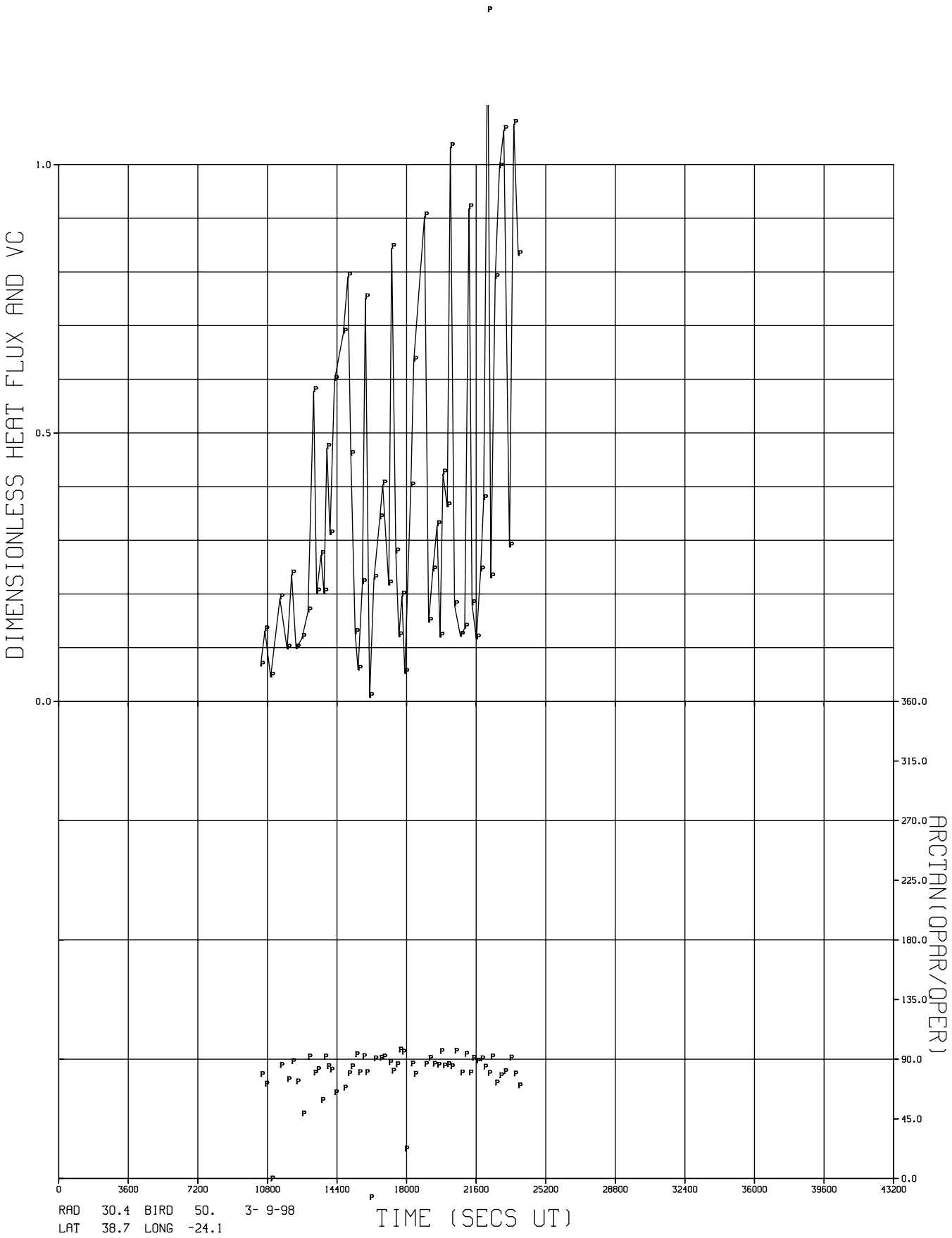

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

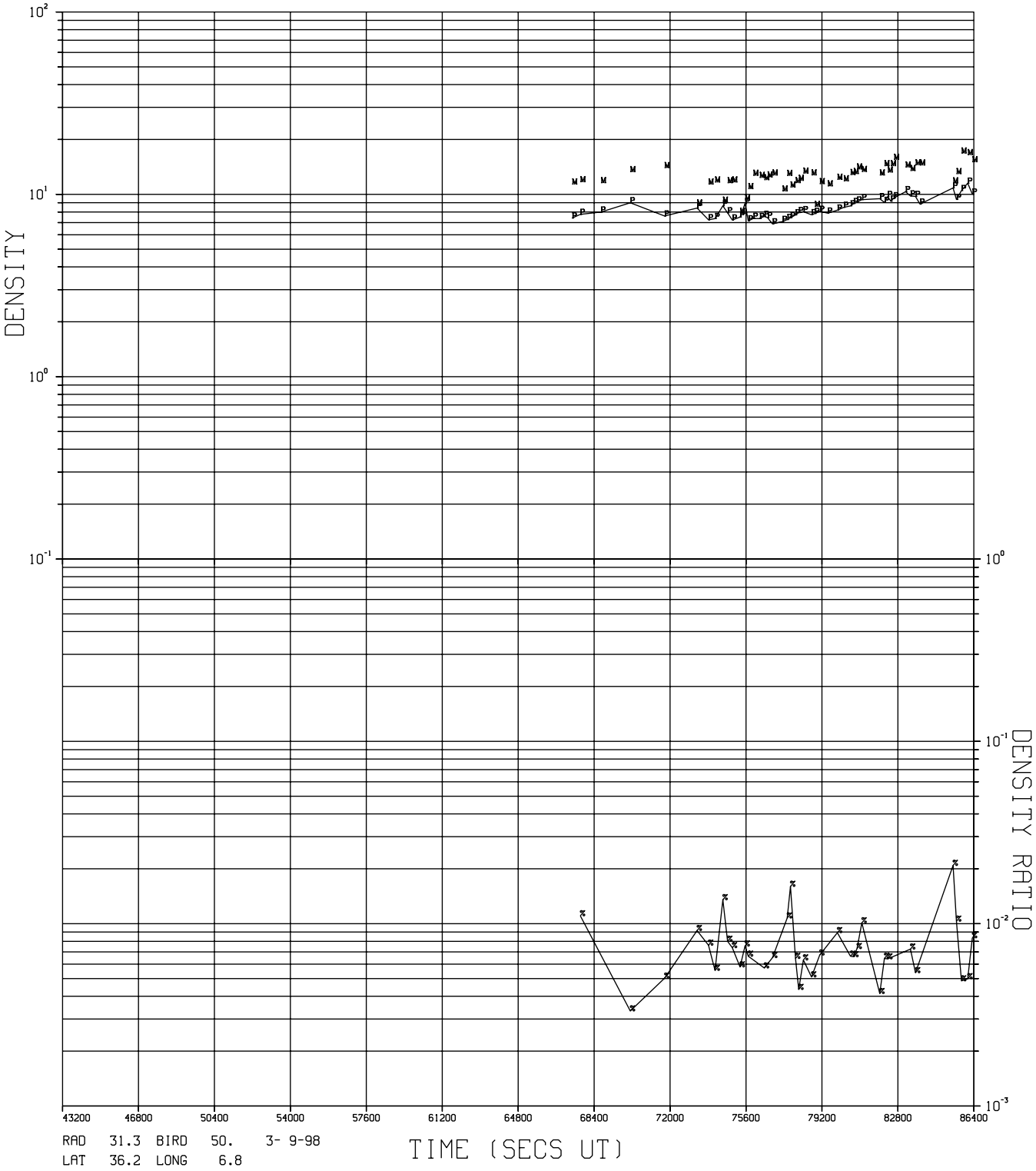

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

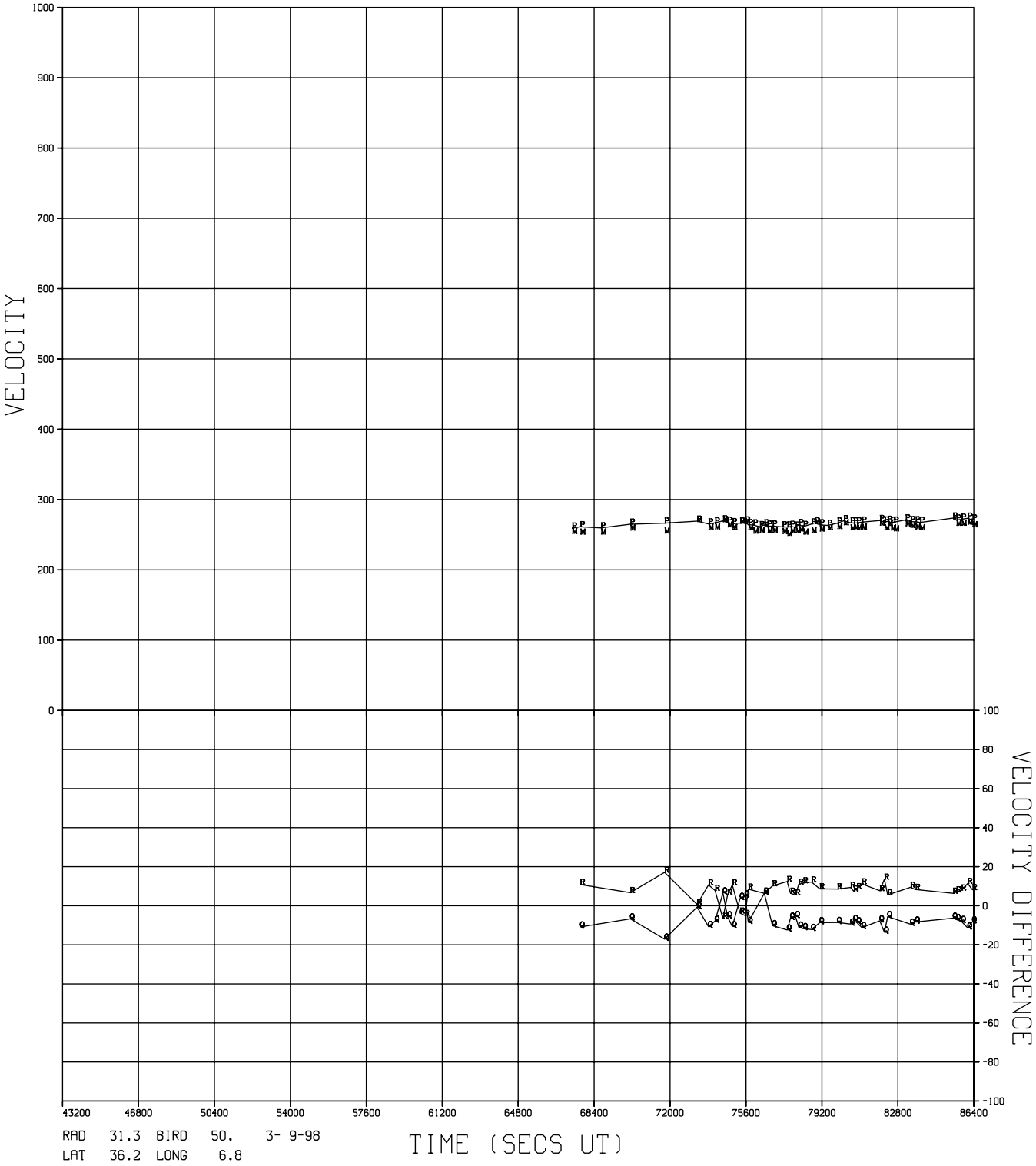

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

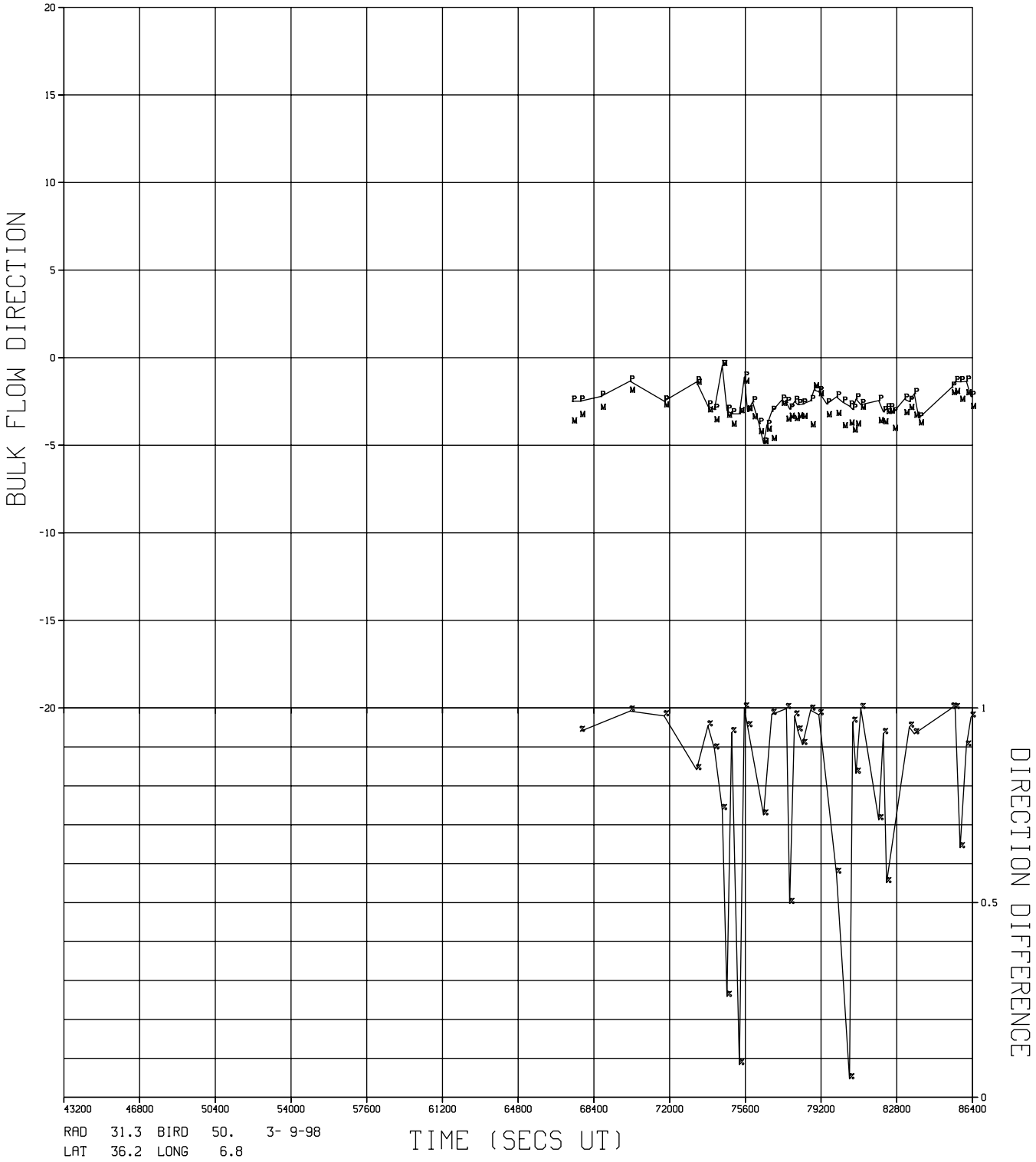

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

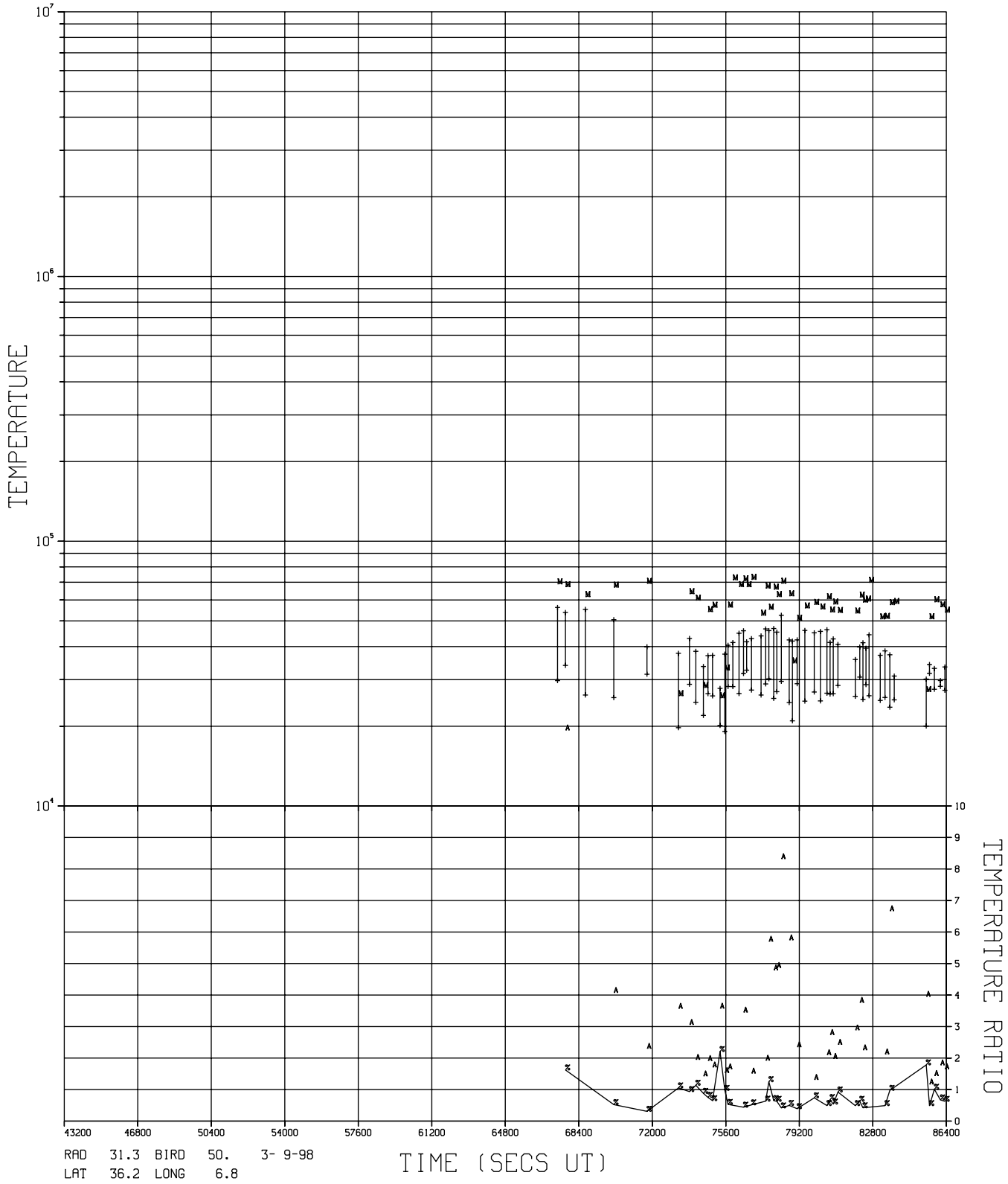

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

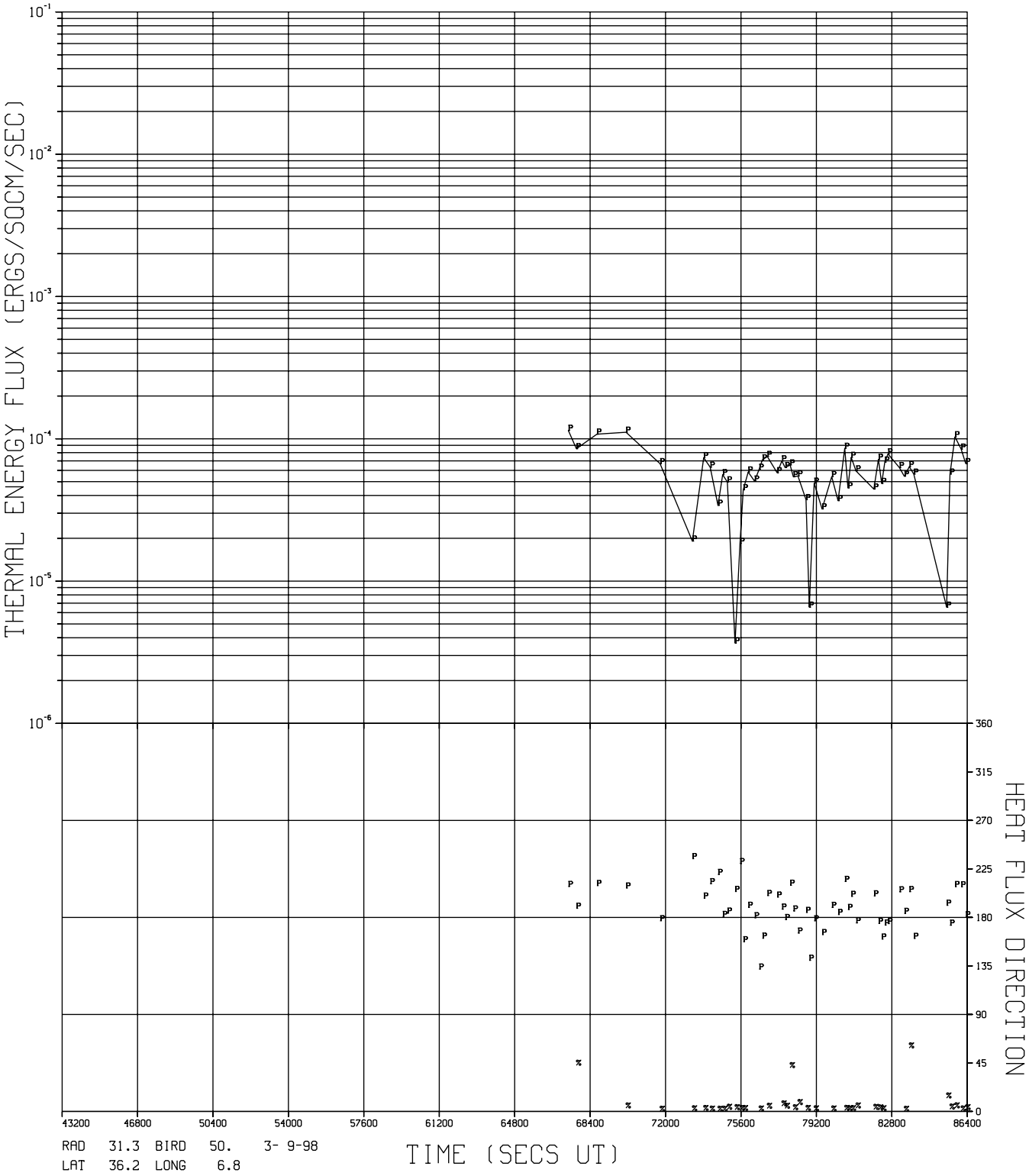

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 30.4 BIRD 50. 3- 9-98
LAT 38.7 LONG -24.1

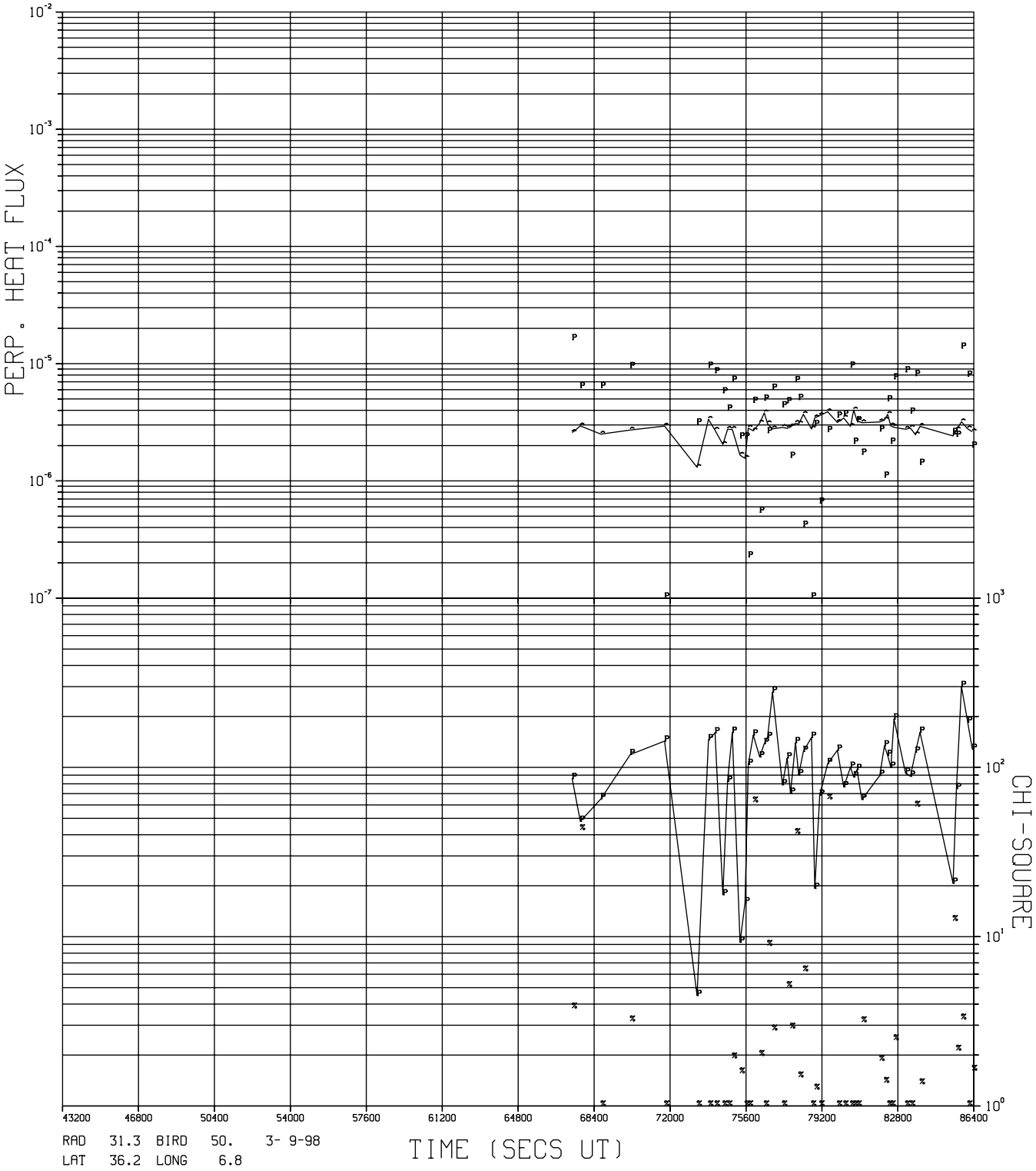

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

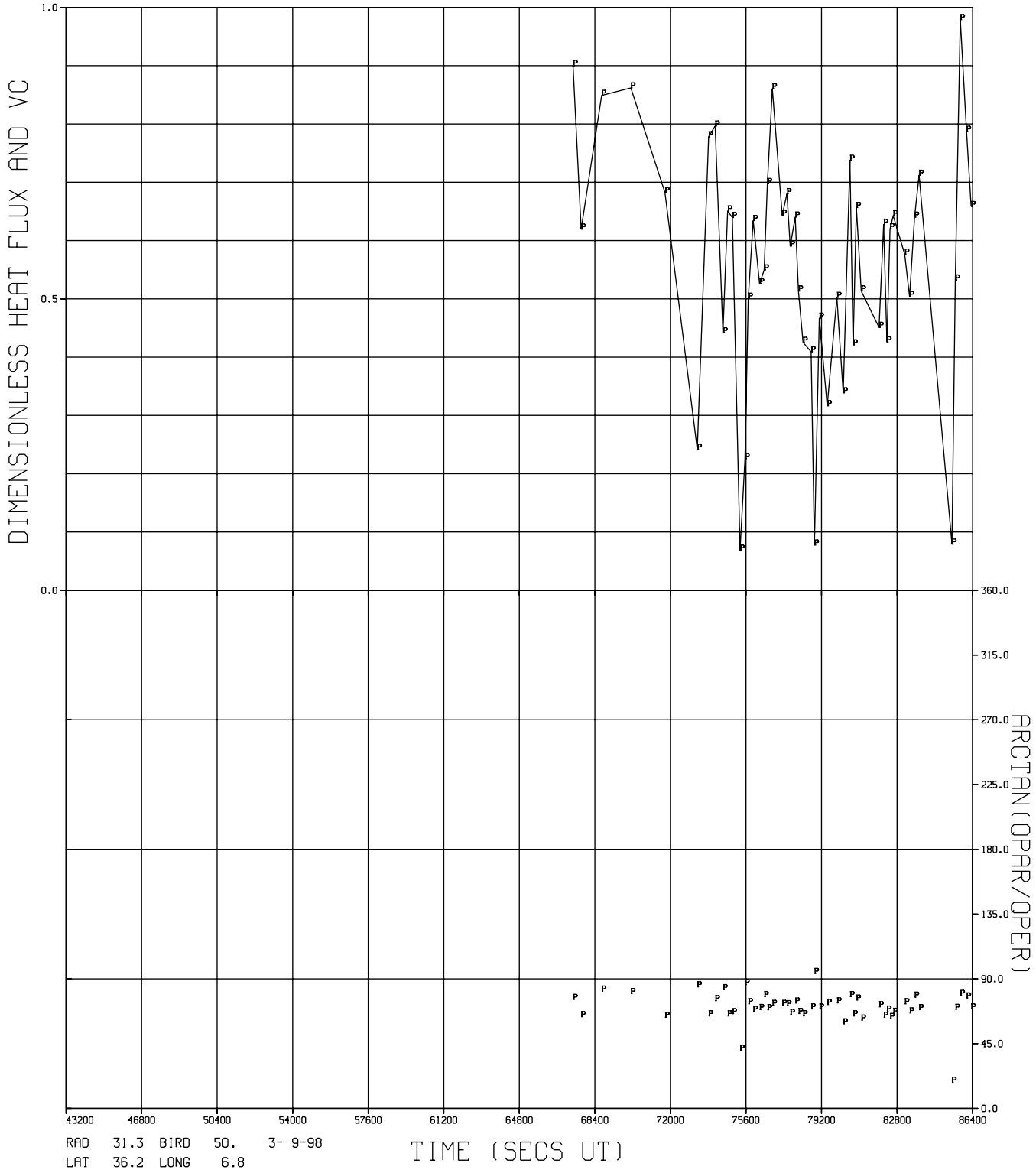

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
1000
900
800
700
600
500
400
300
200
100
0
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

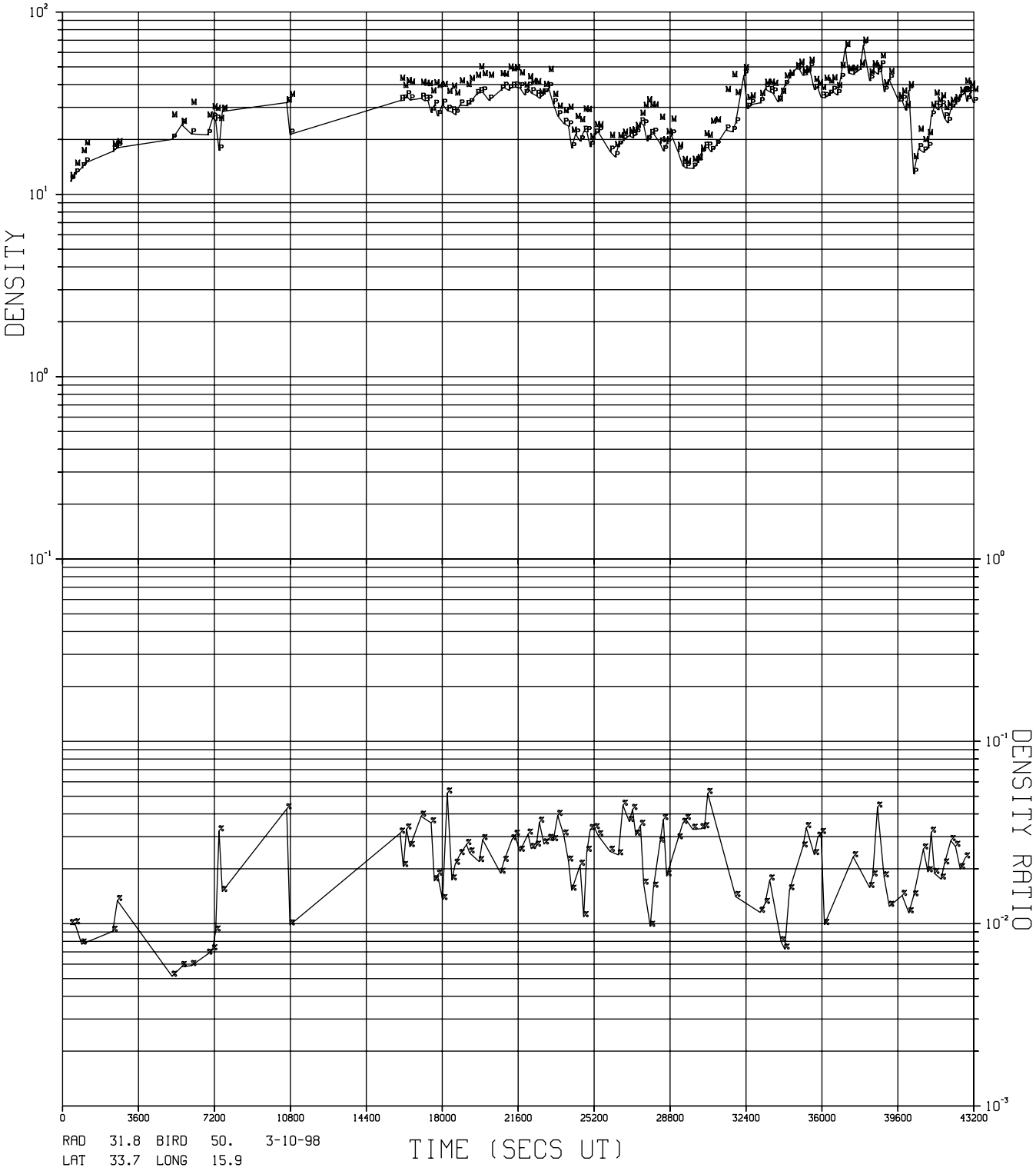

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

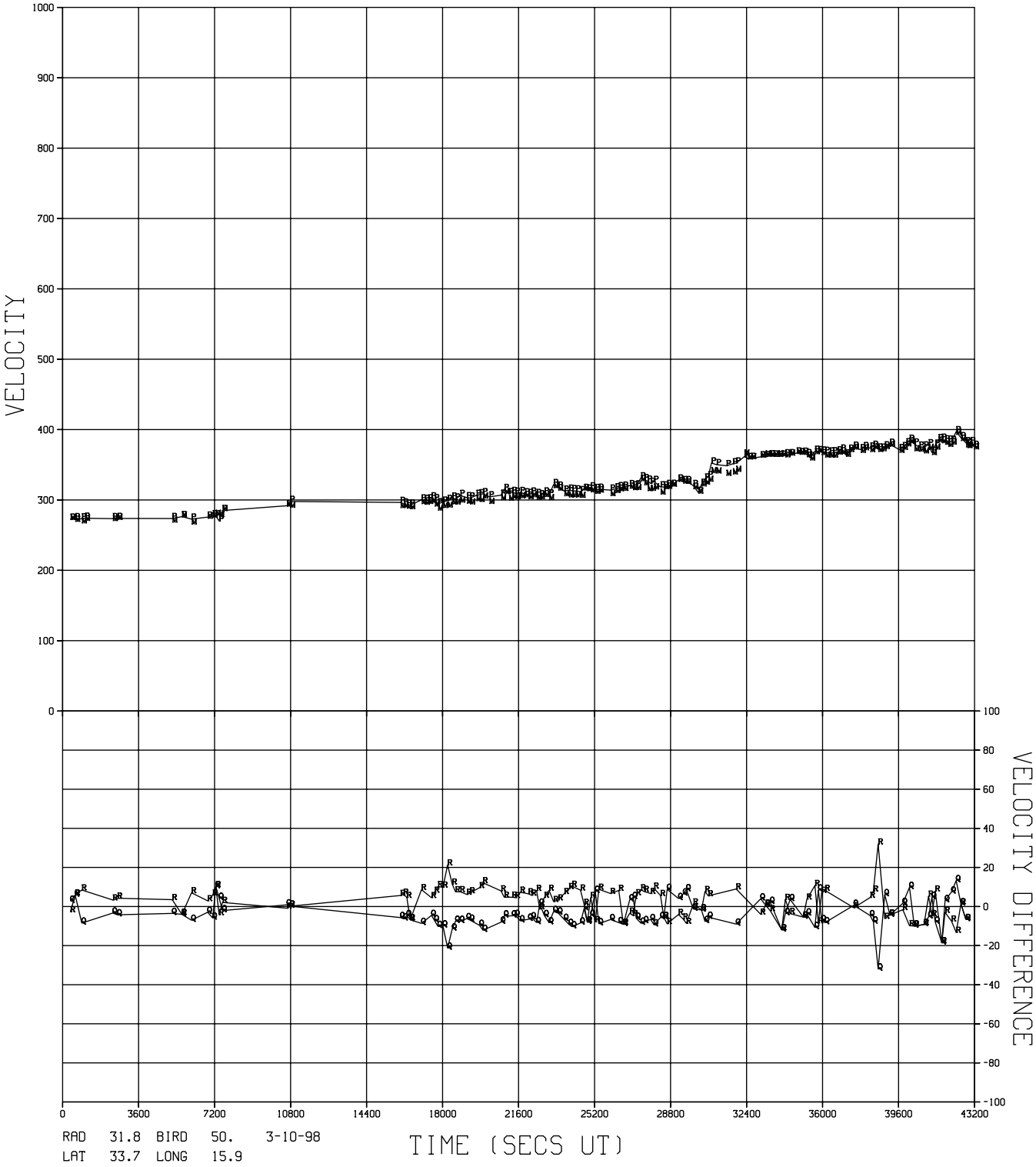

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

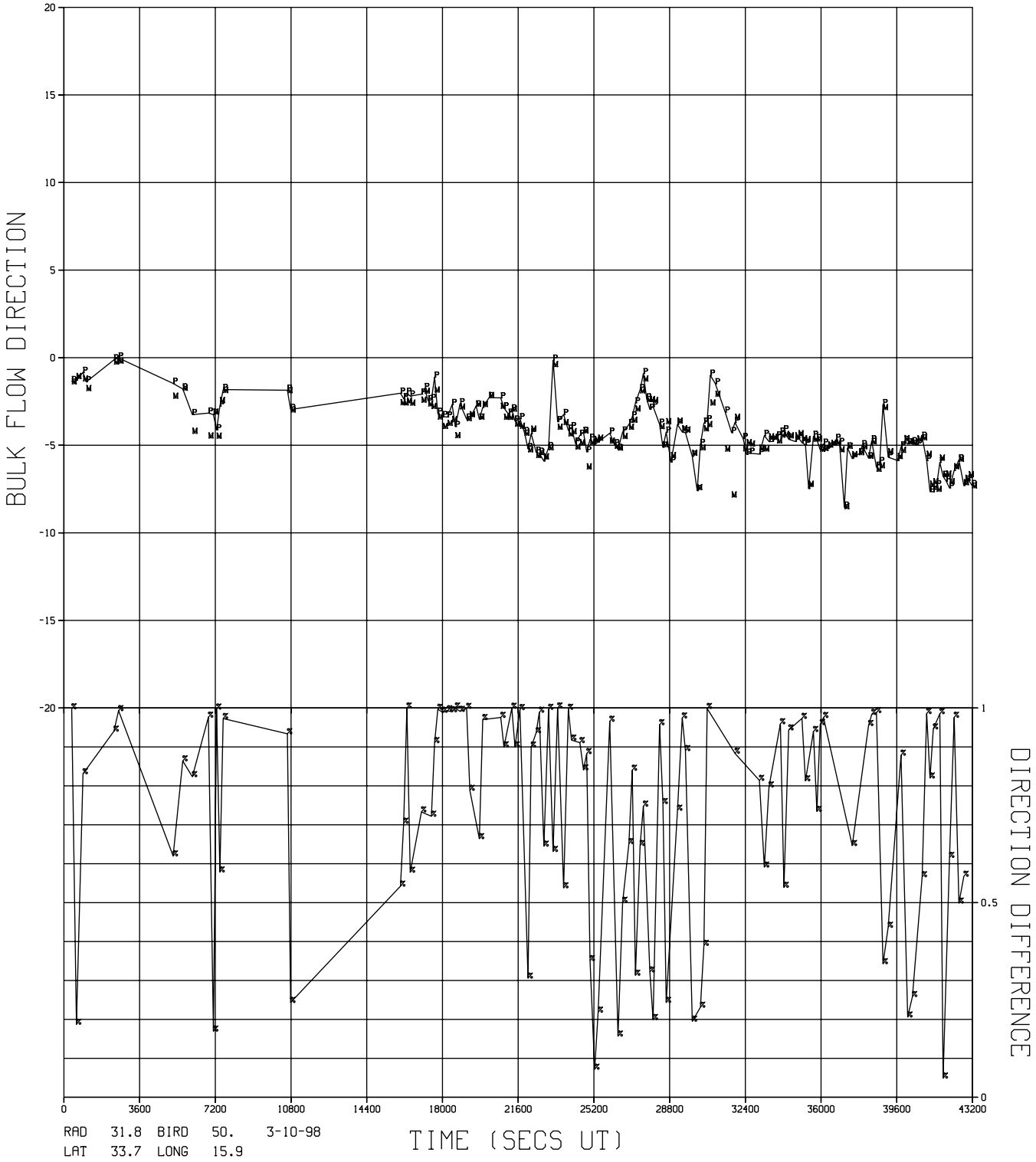

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

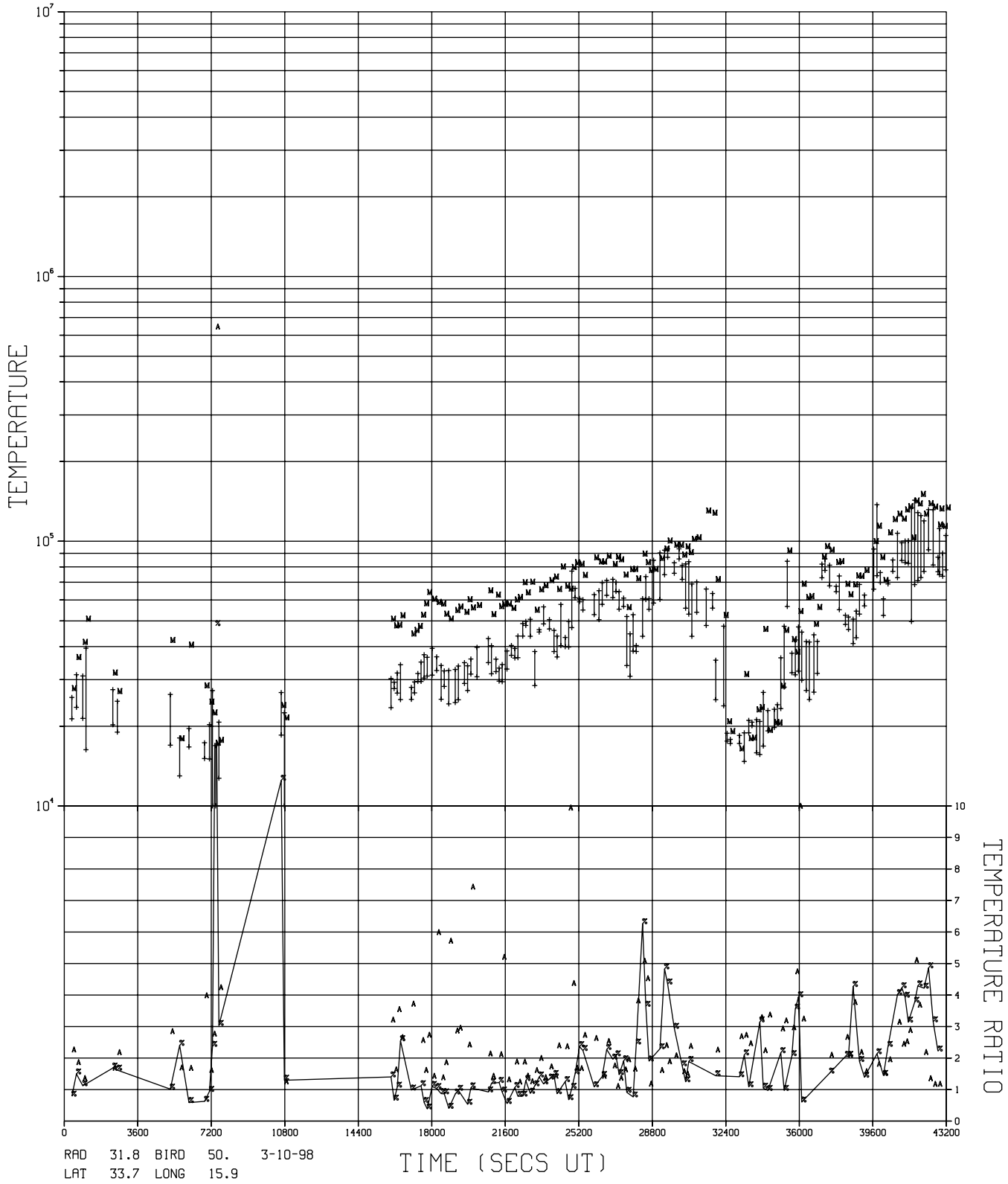

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

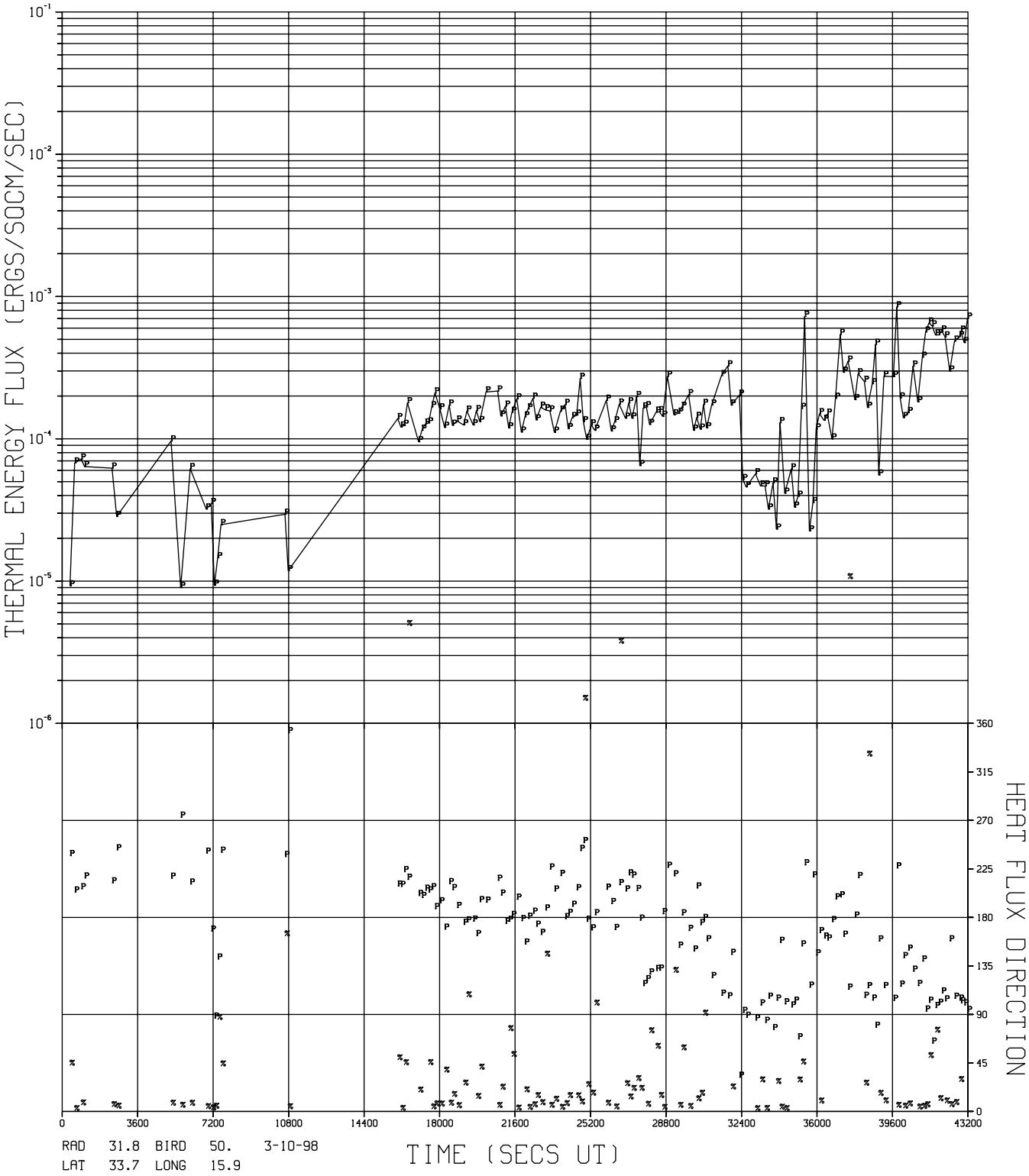

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 31.3 BIRD 50. 3- 9-98
LAT 36.2 LONG 6.8

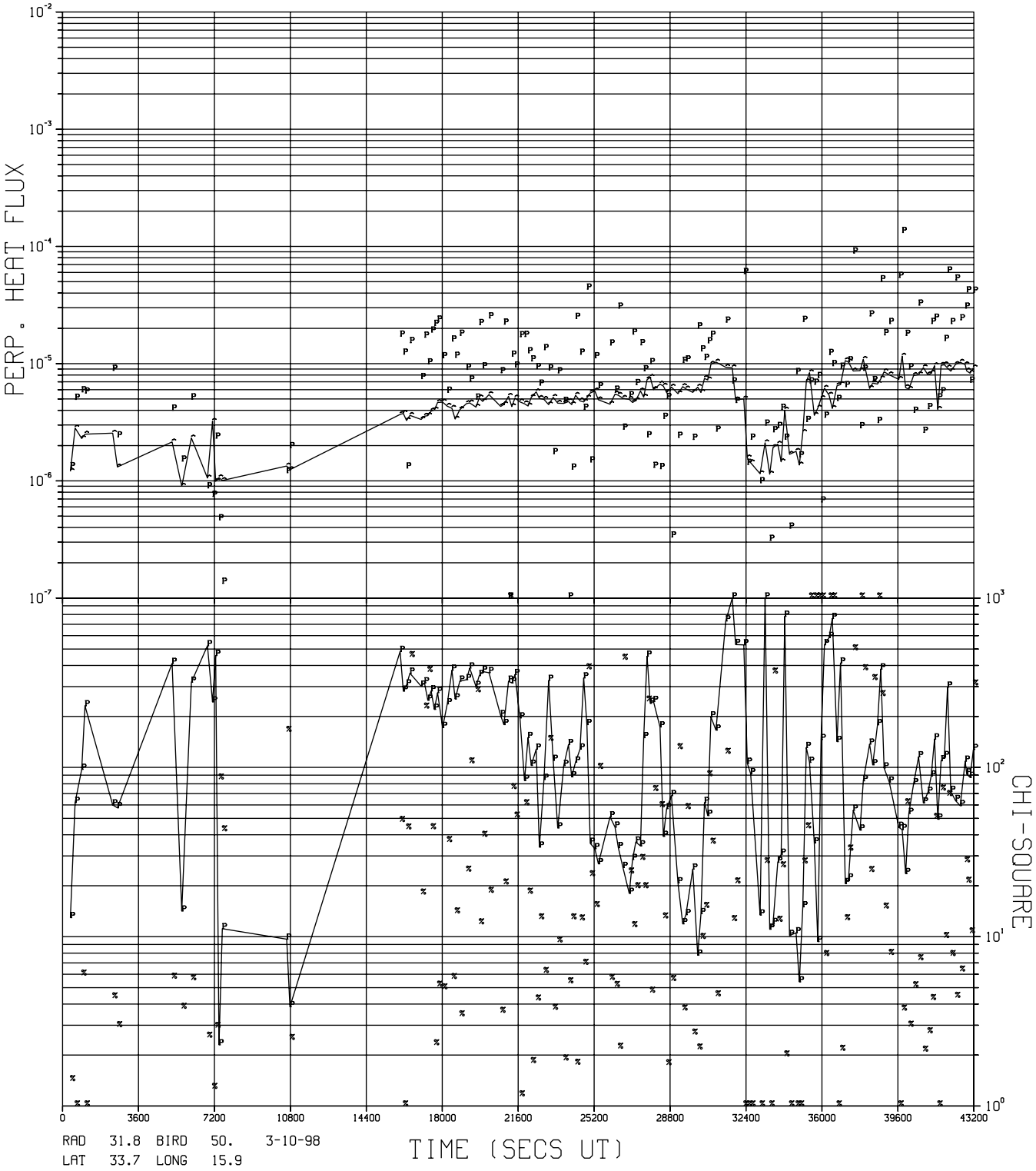

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

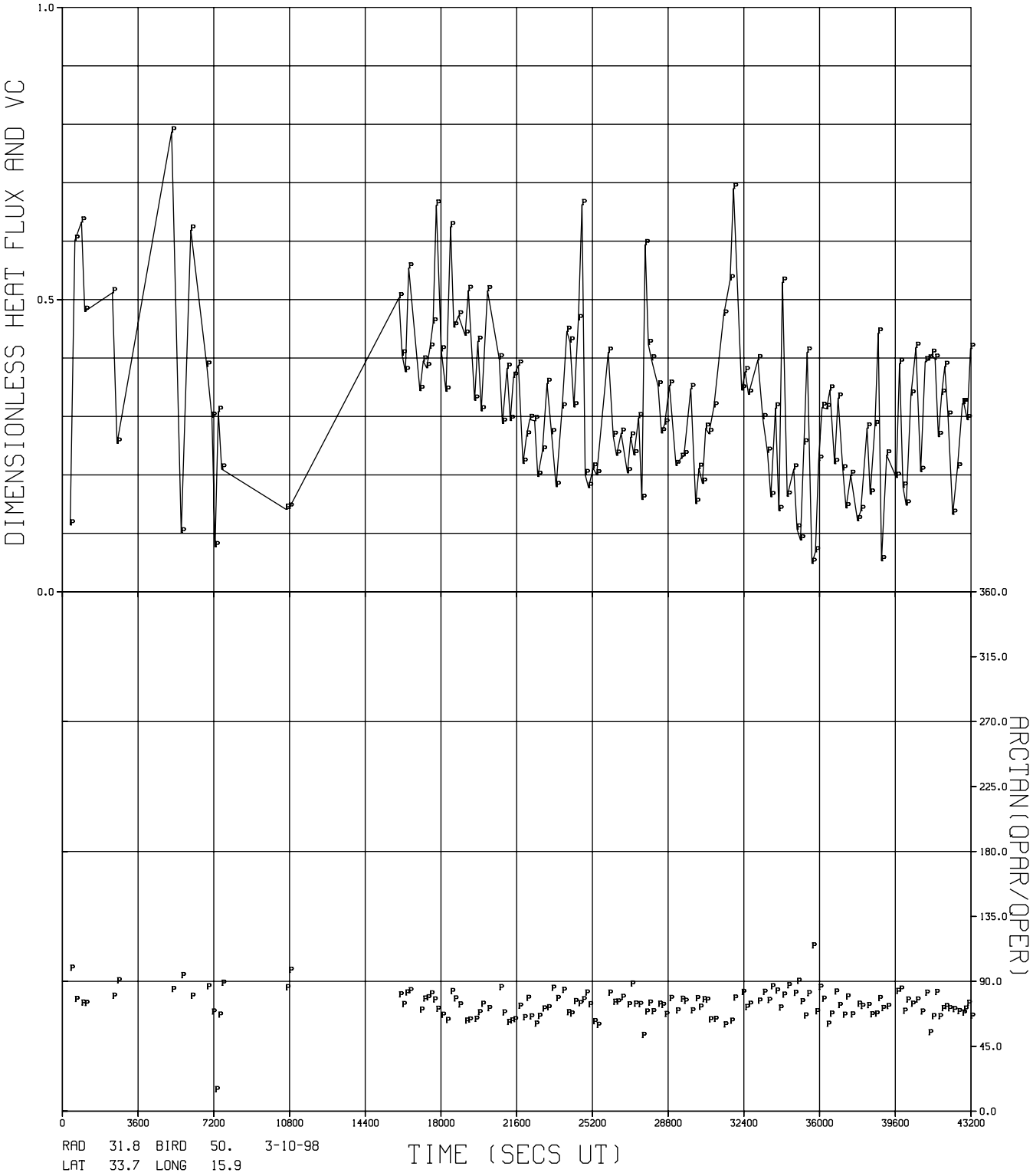

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

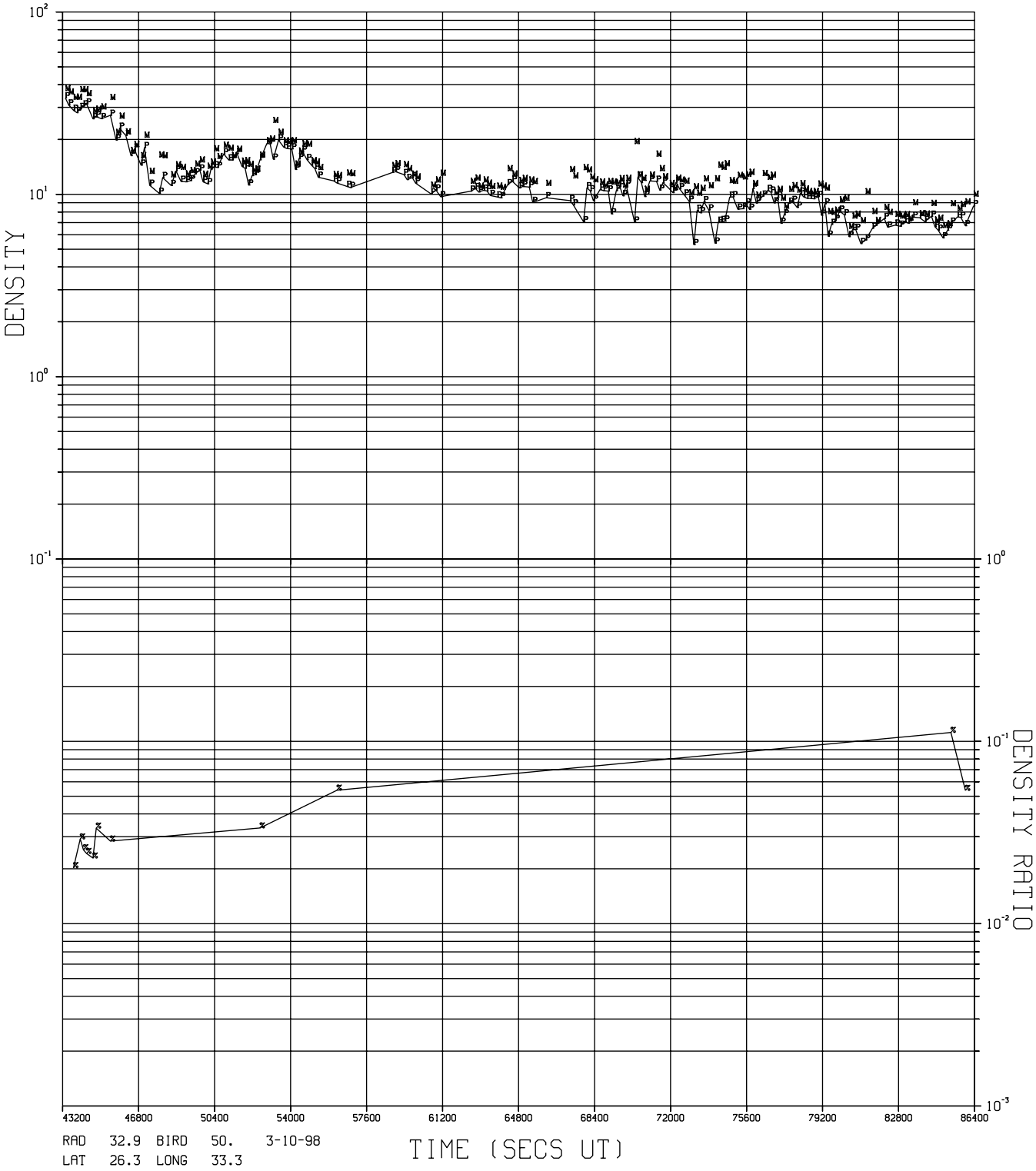

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

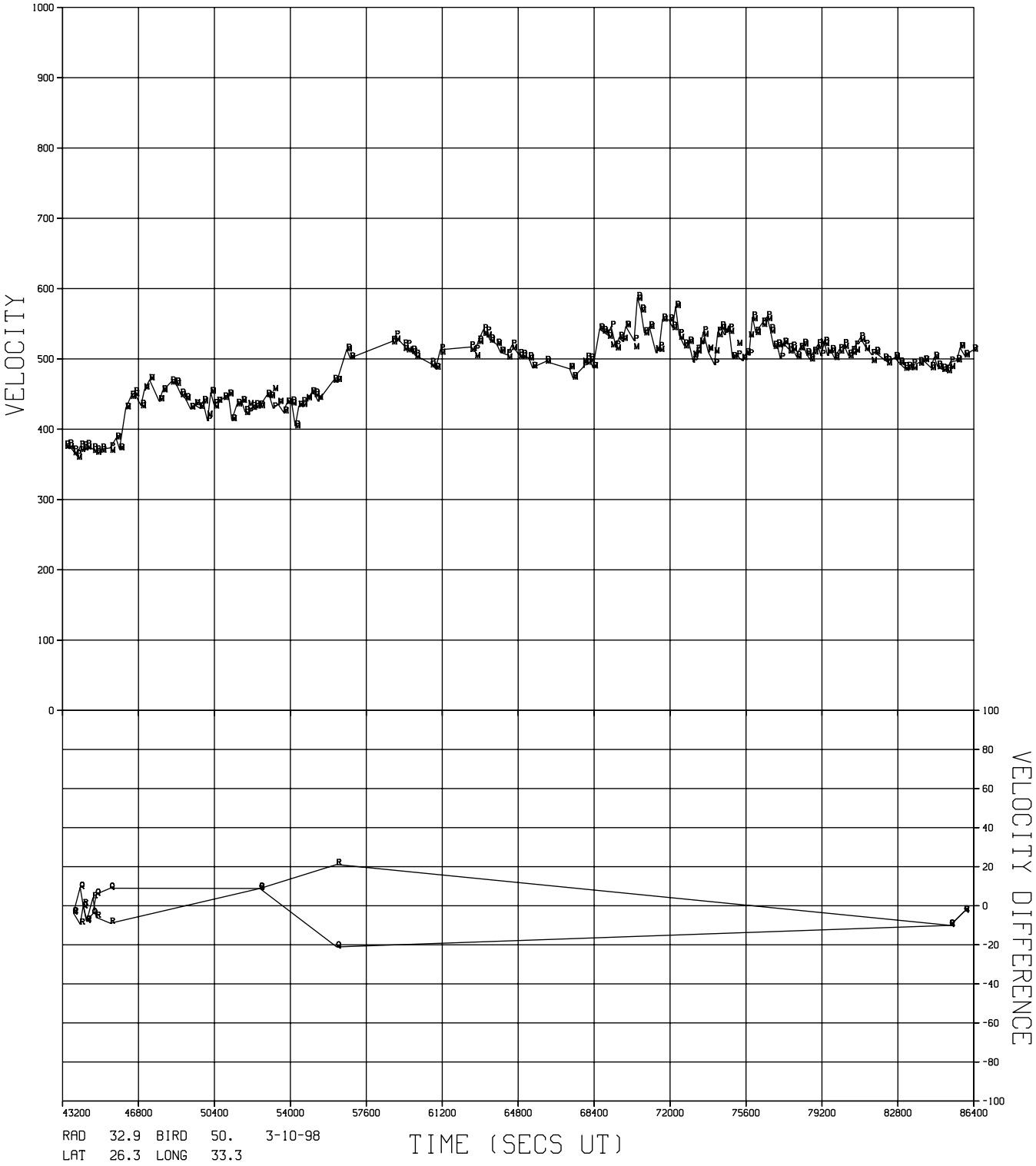

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

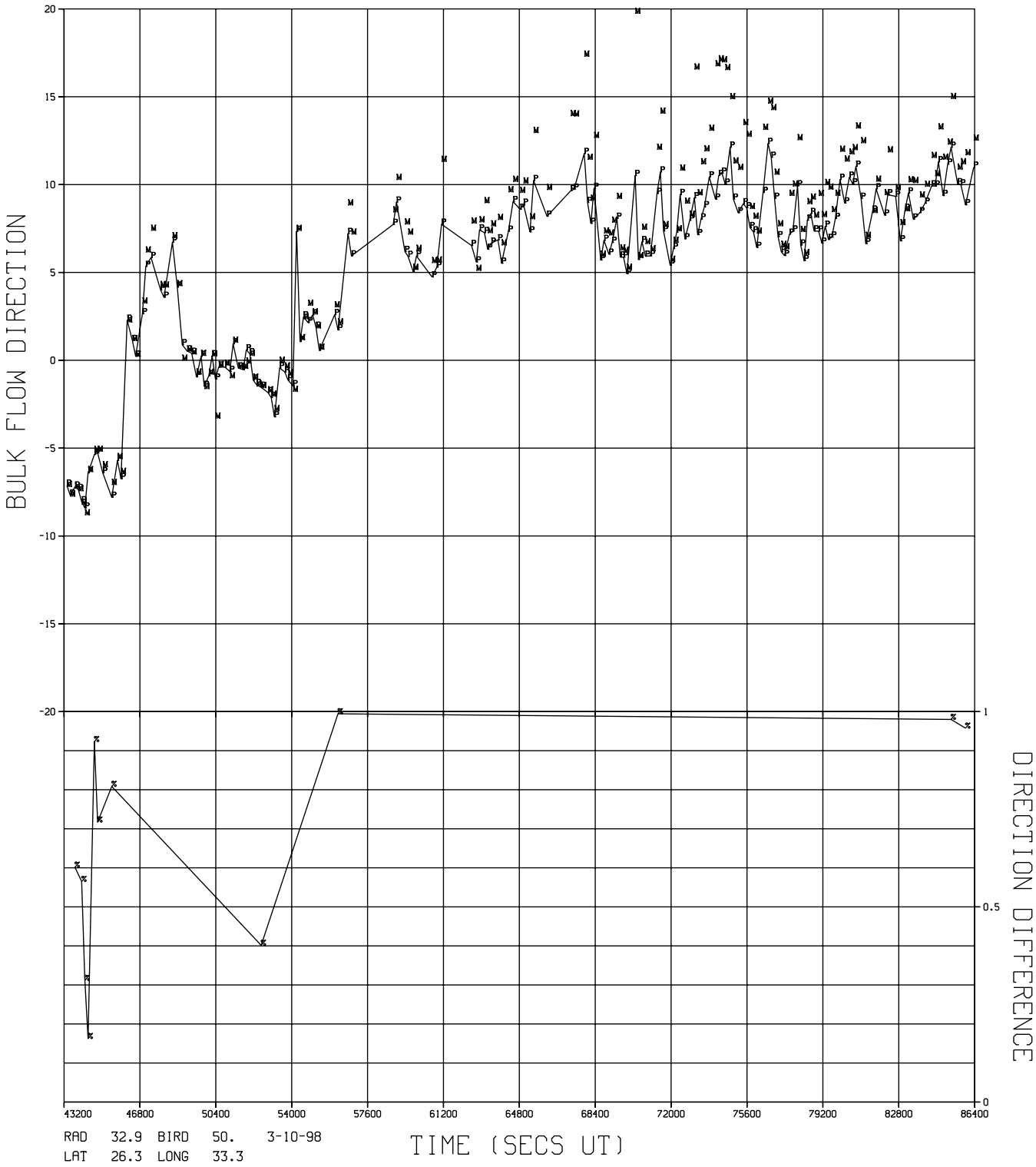

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

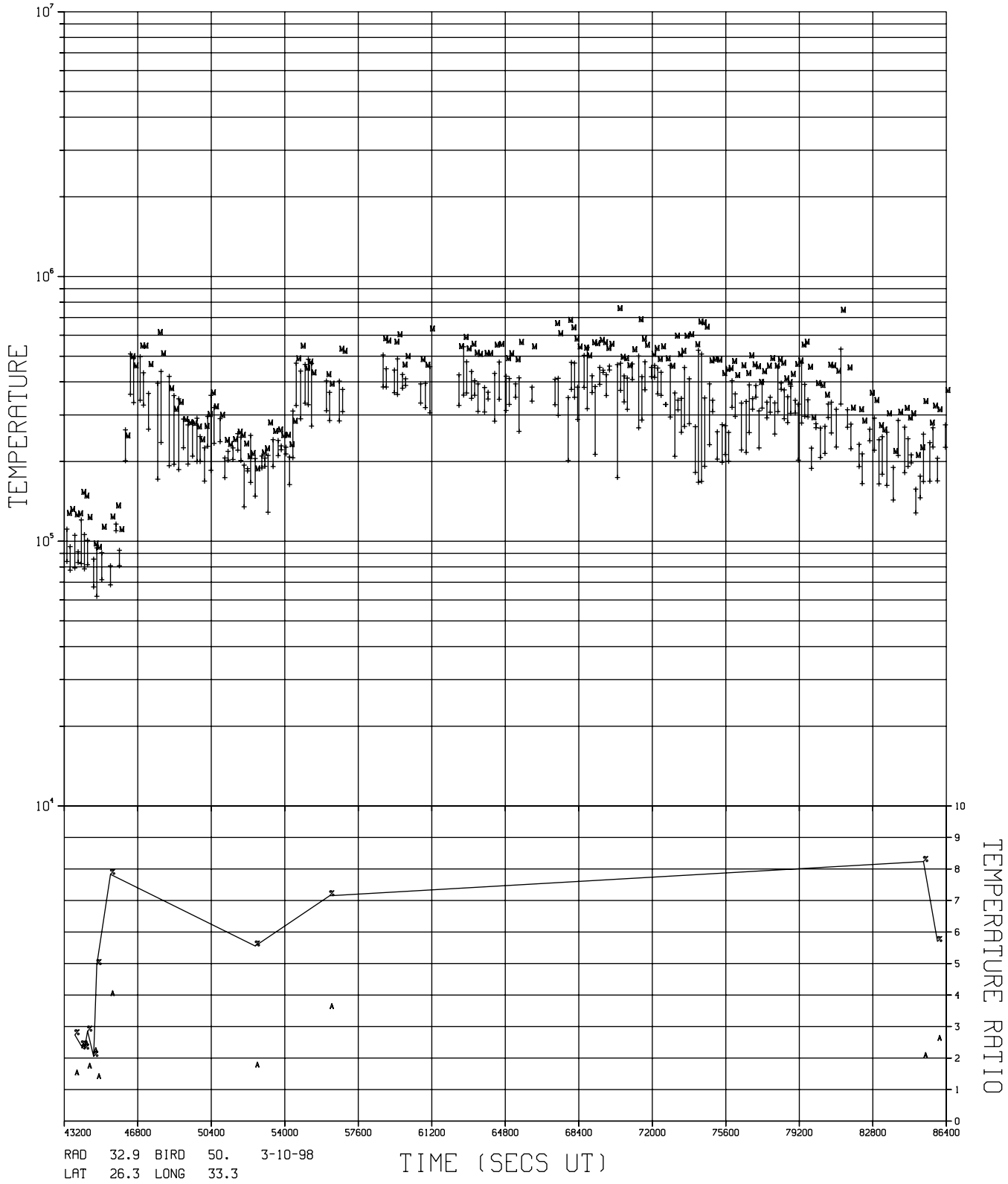

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

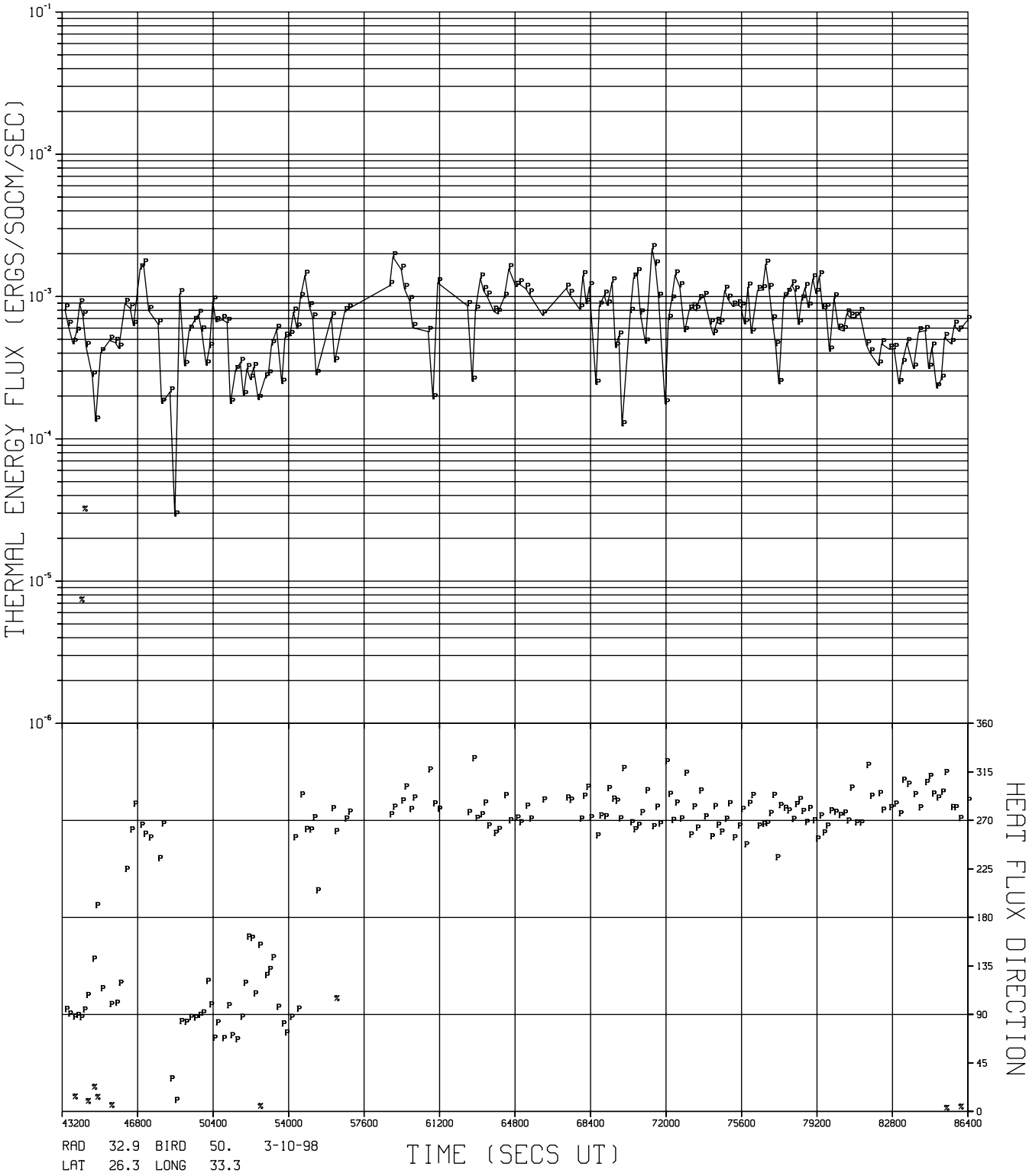

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 31.8 BIRD 50. 3-10-98
LAT 33.7 LONG 15.9

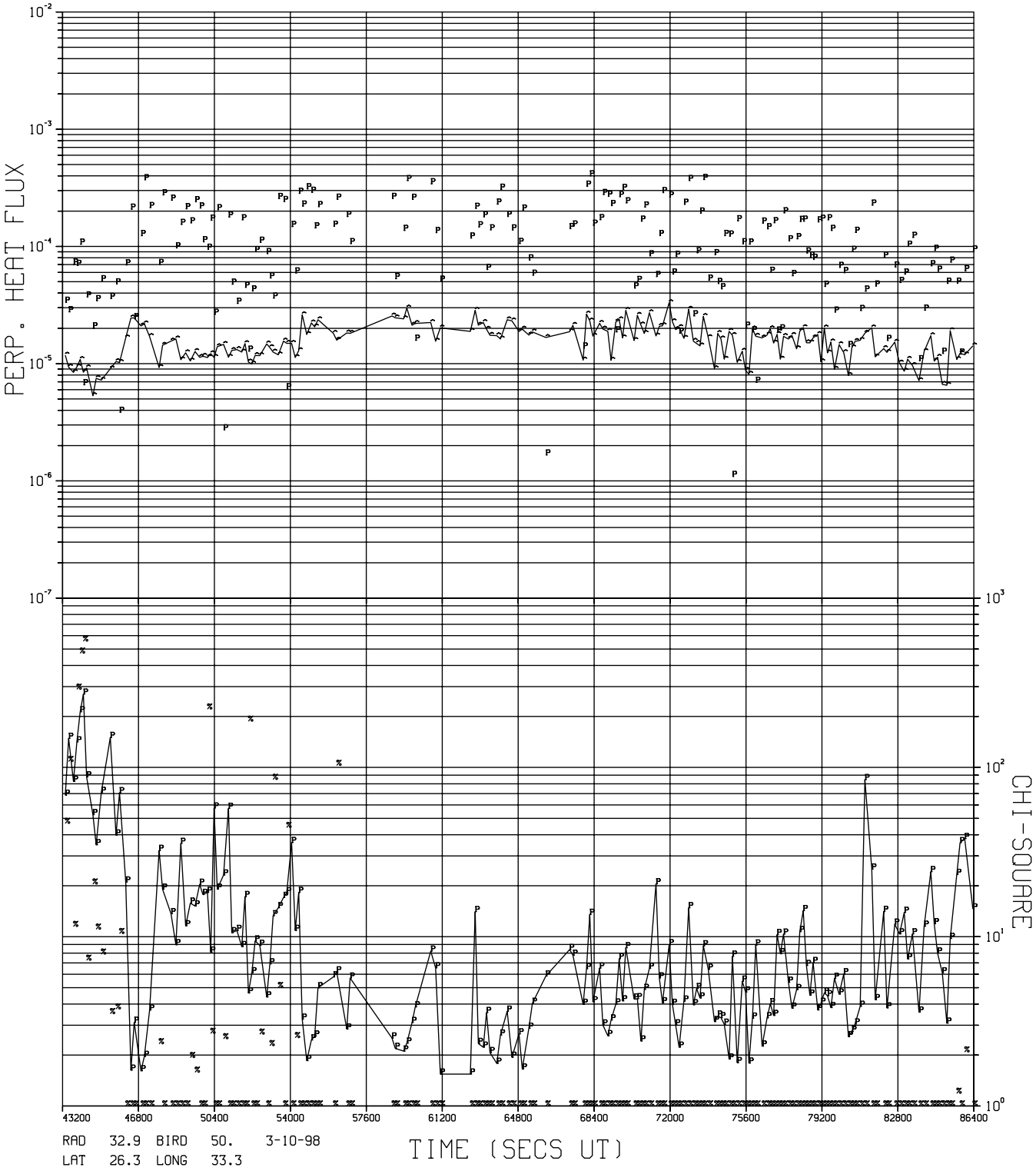

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

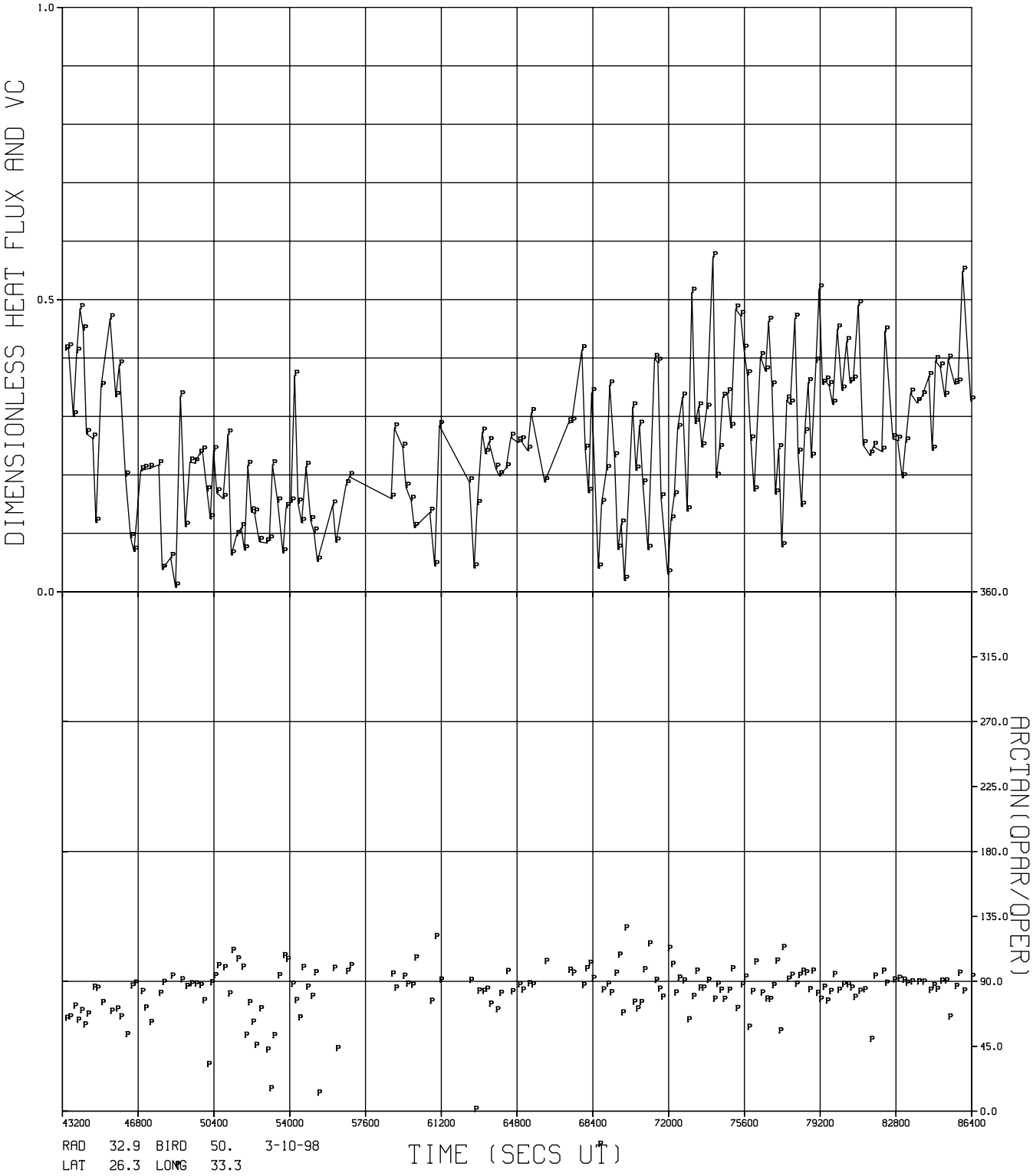

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
1000
900
800
700
600
500
400
300
200
100
0
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

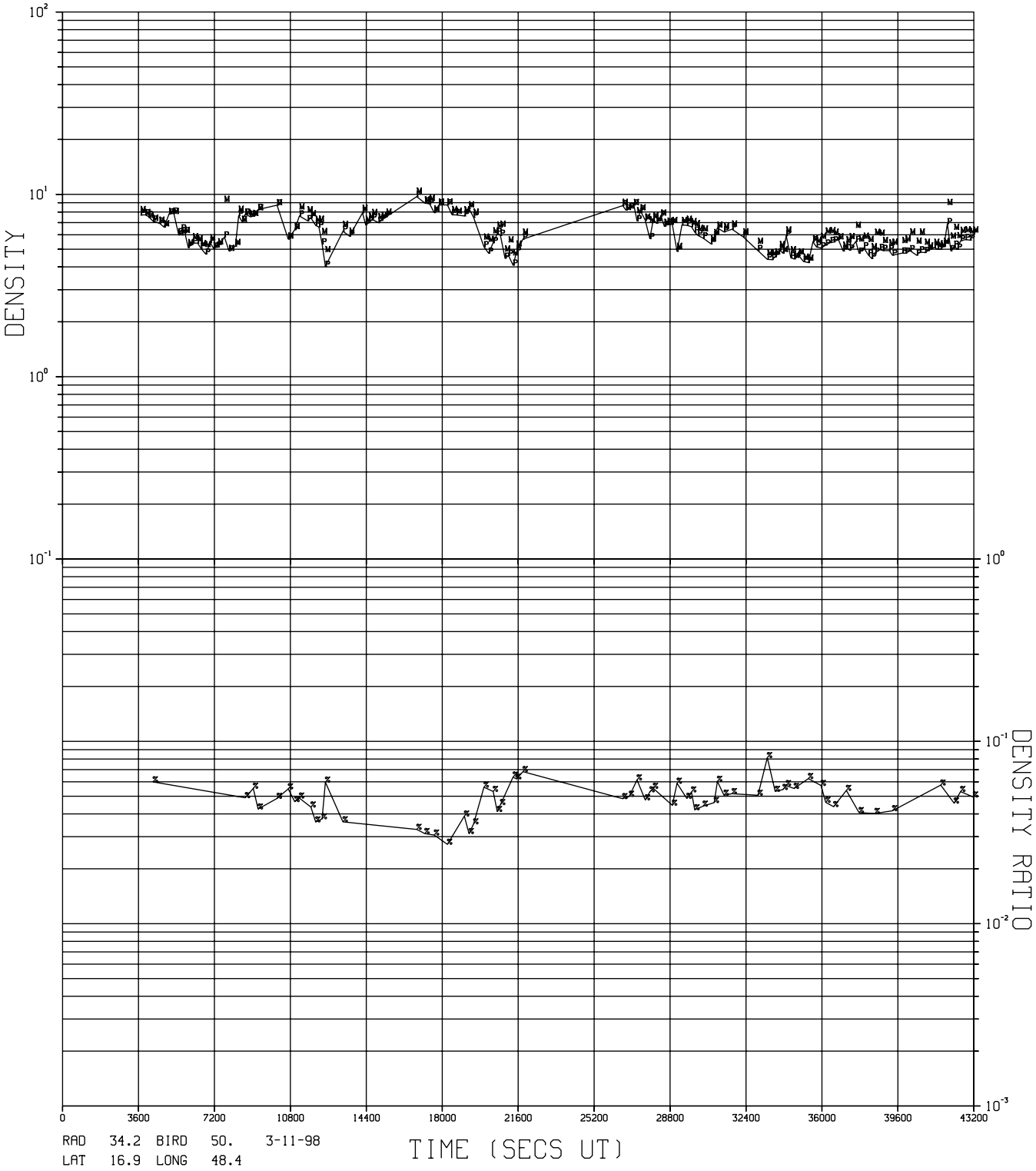

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

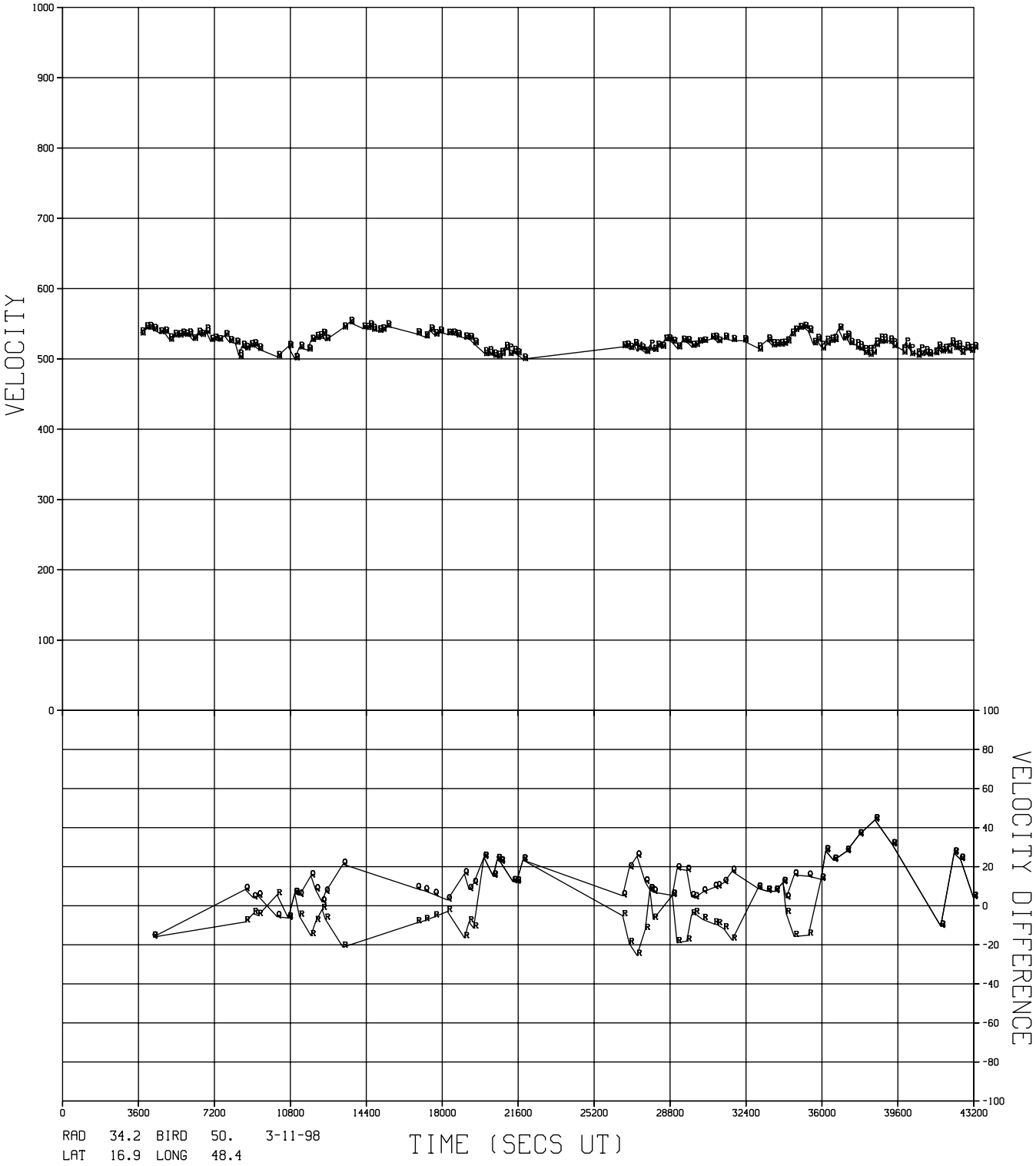

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

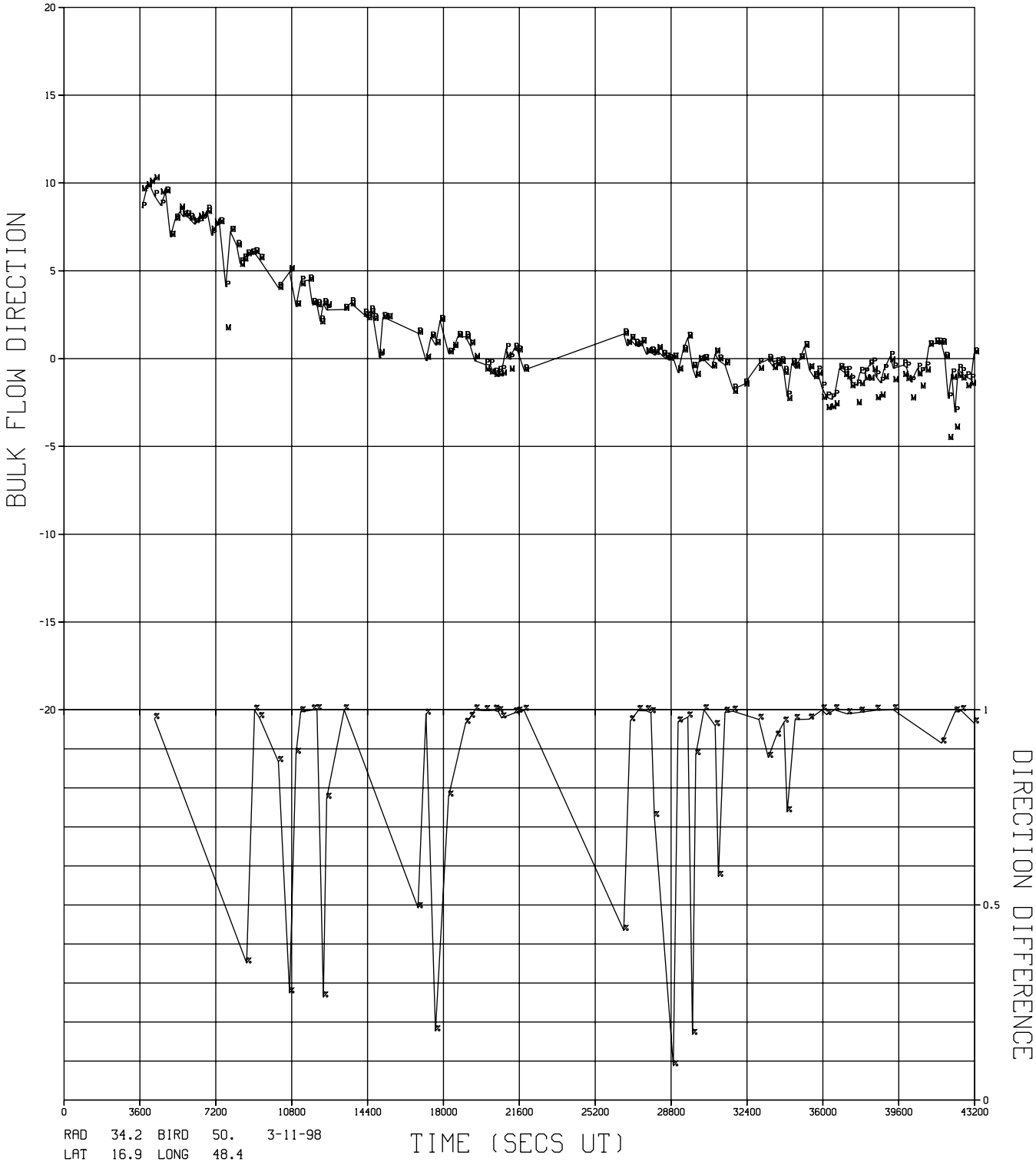

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

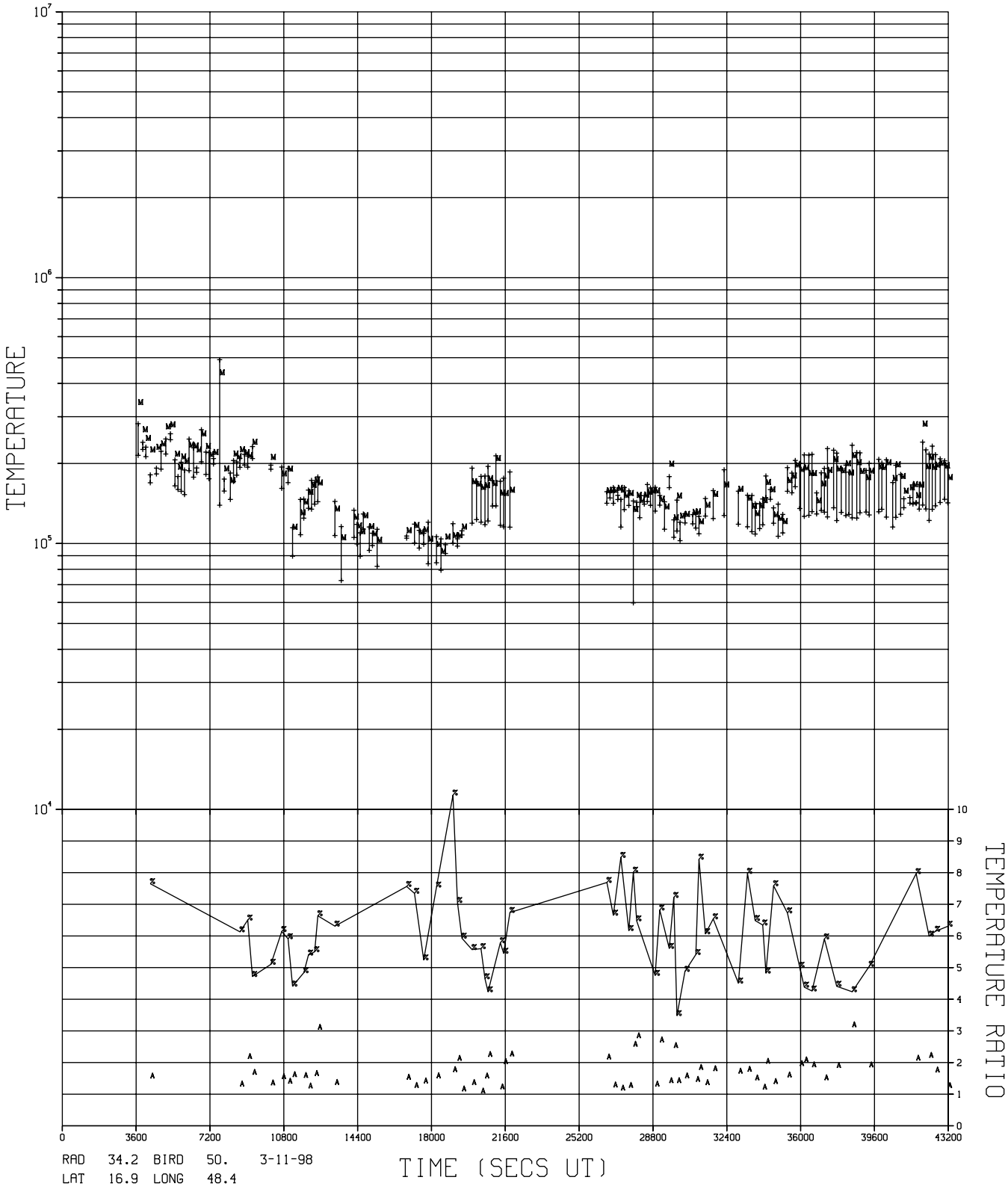

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

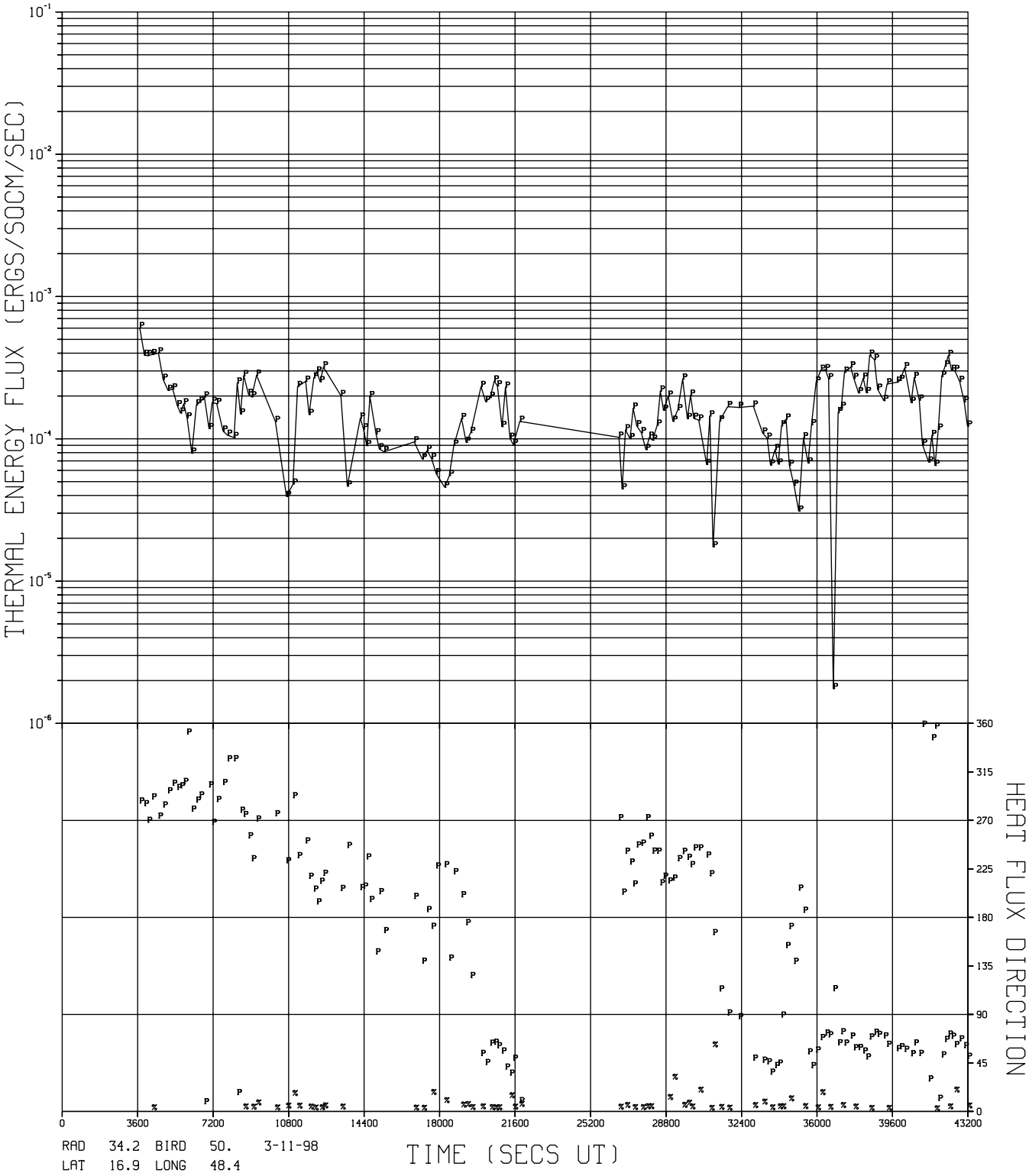

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.9 BIRD 50. 3-10-98
LAT 26.3 LONG 33.3

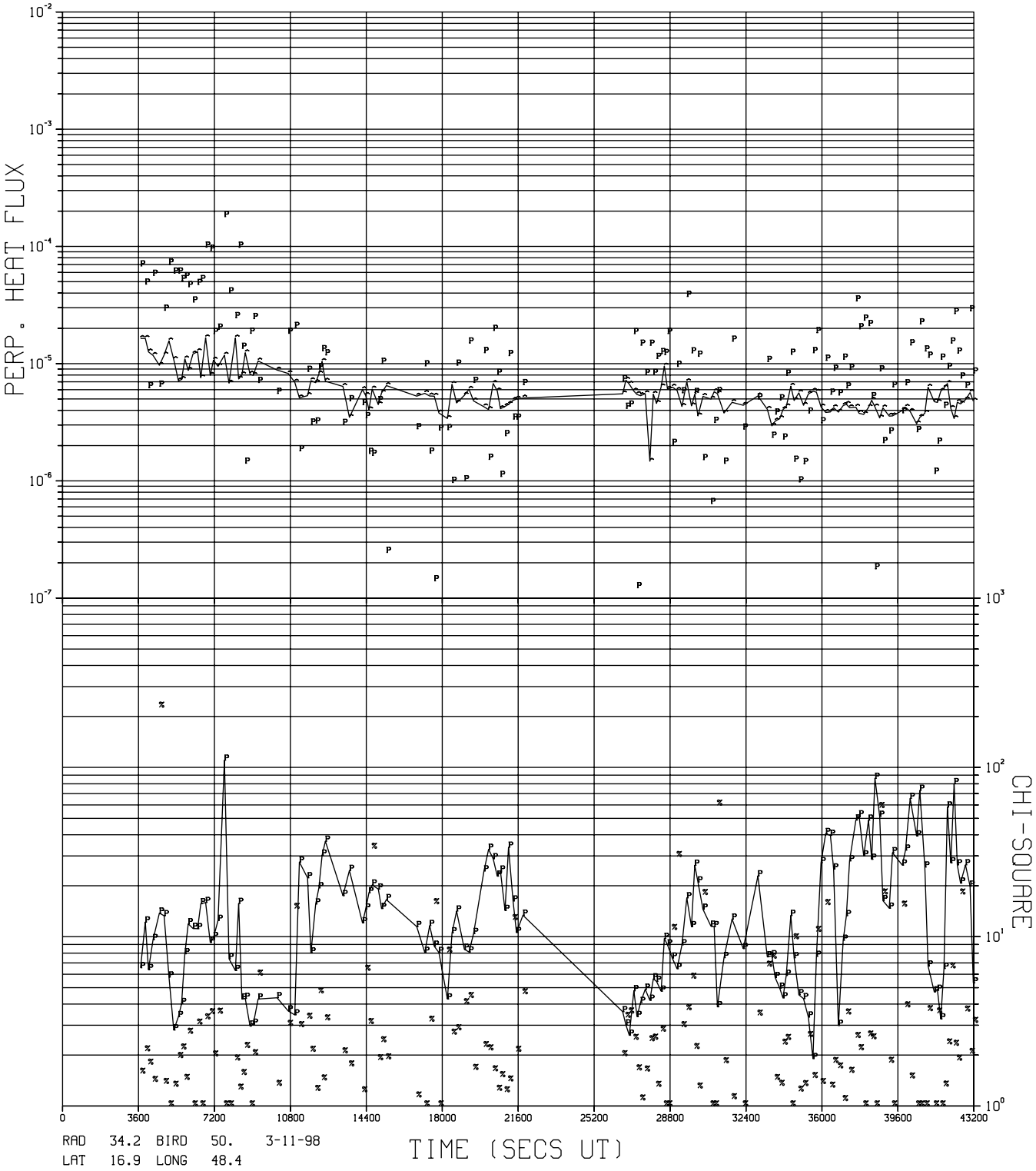

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

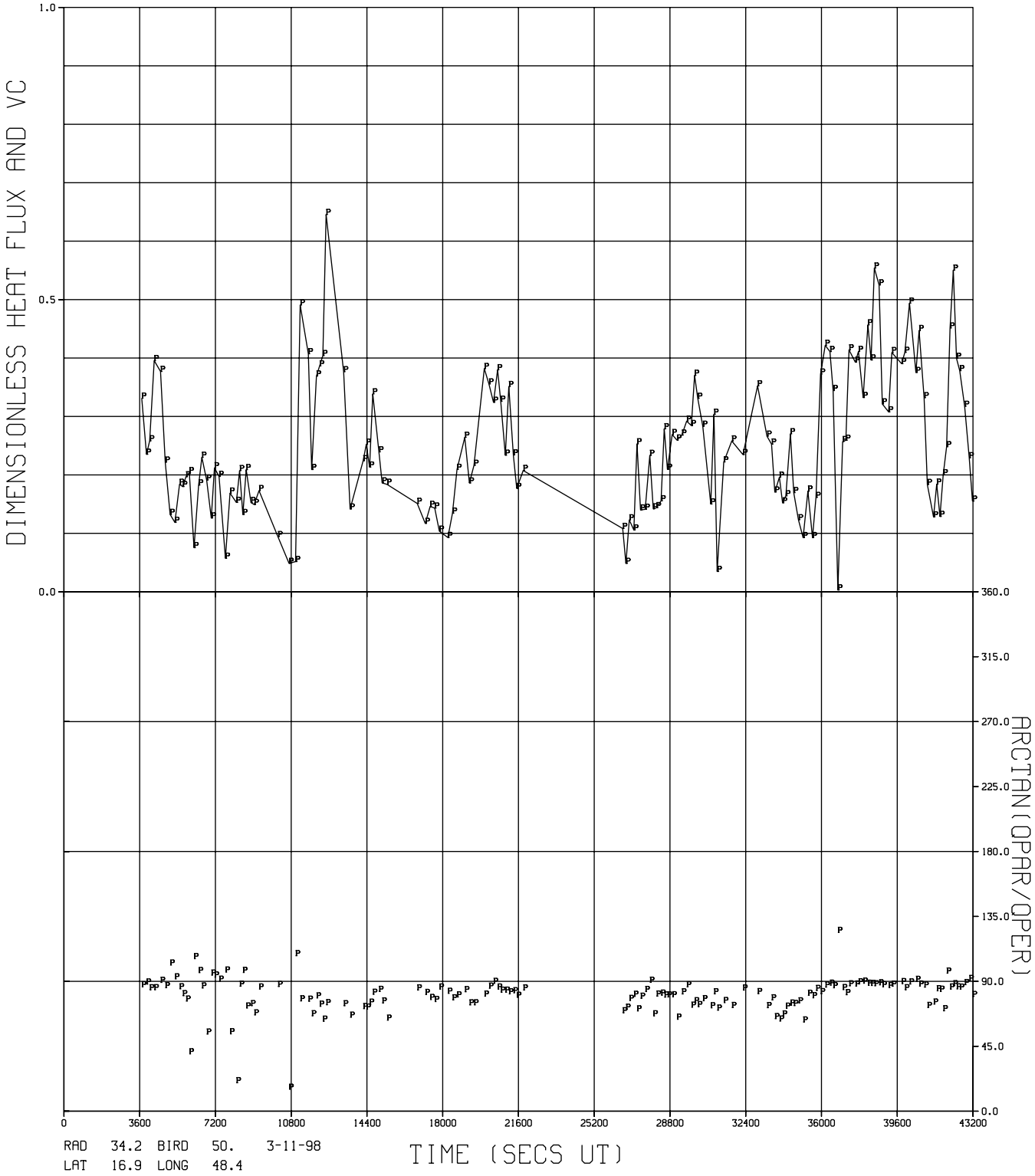

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

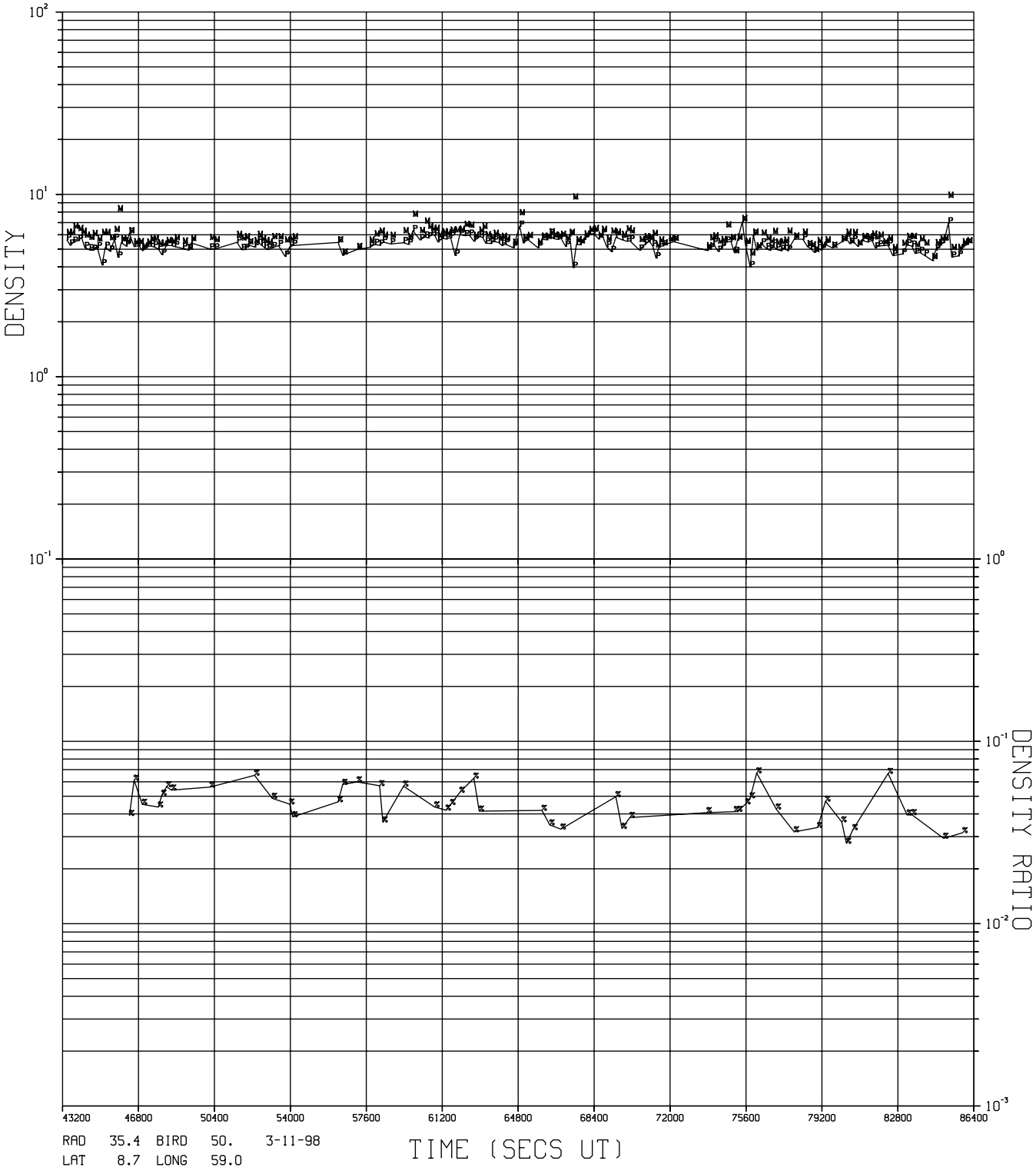

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

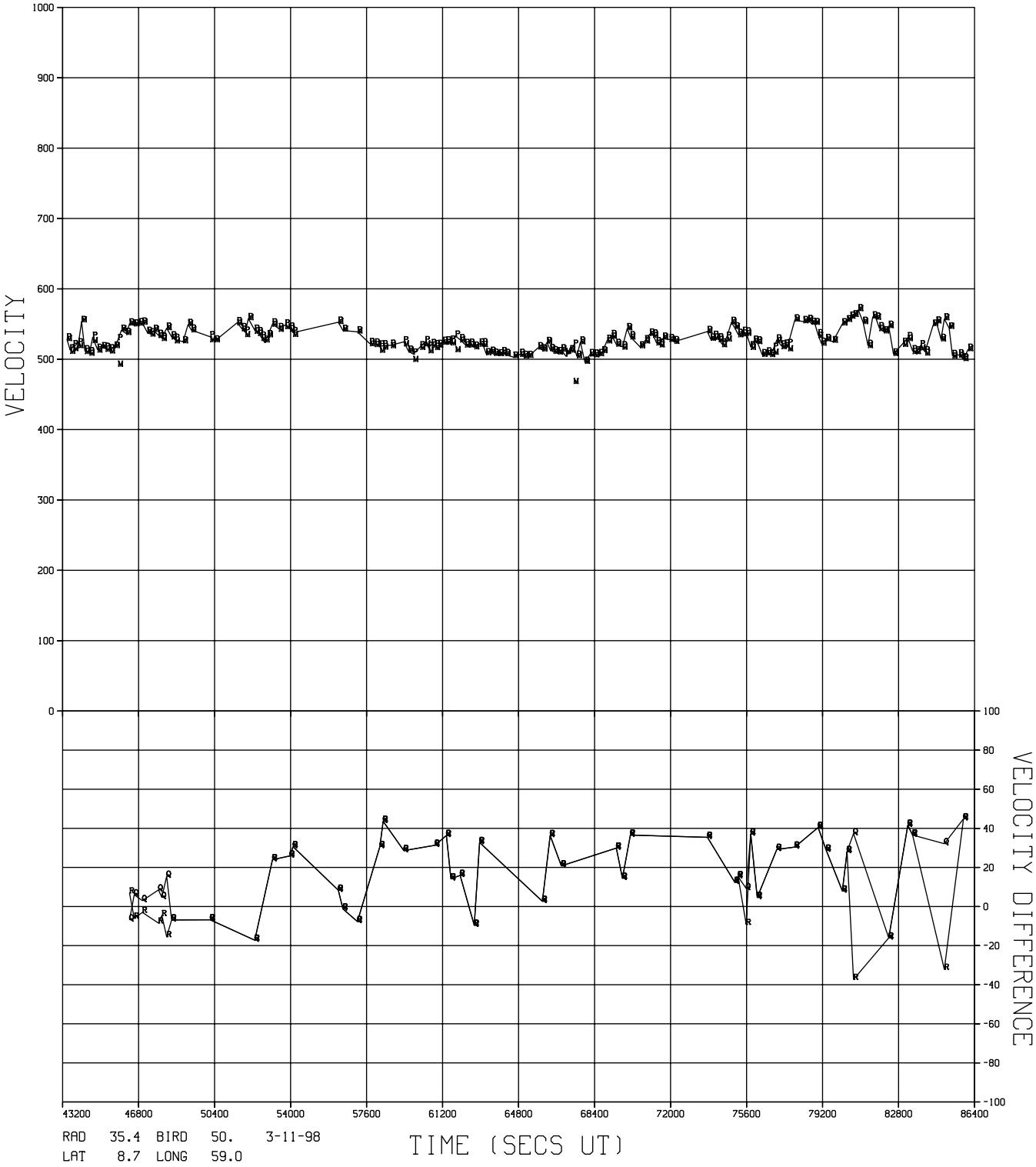

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

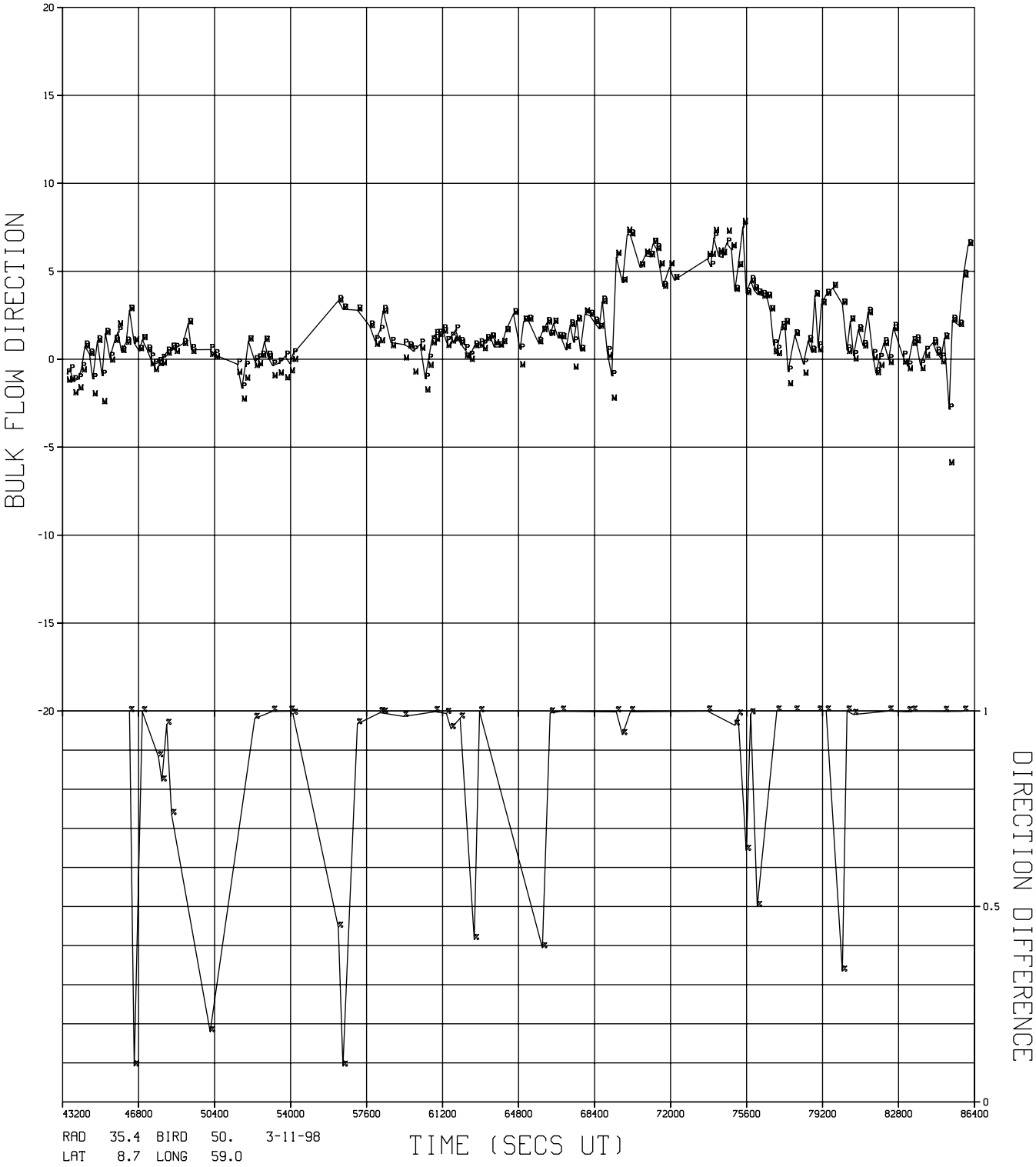

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

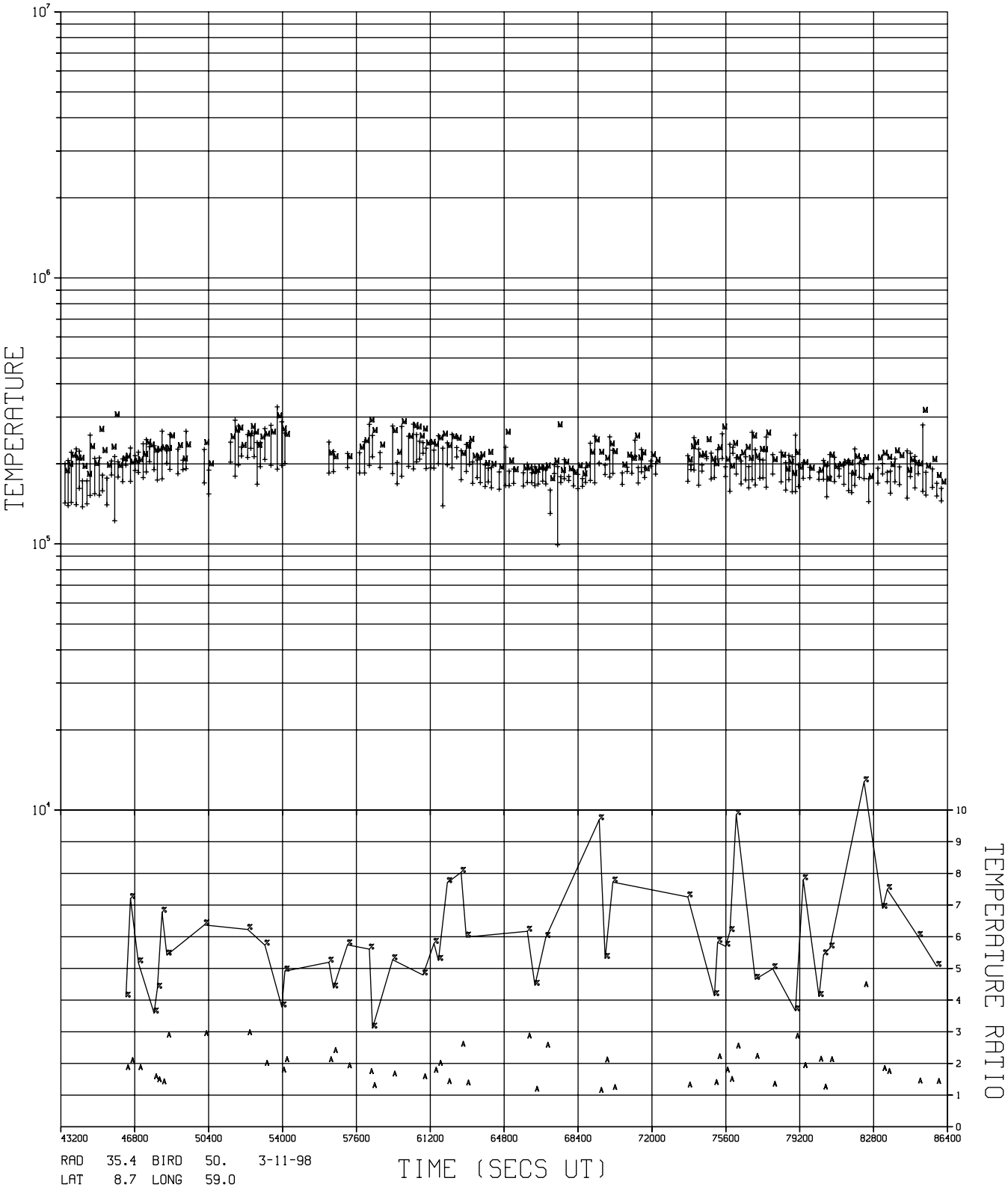

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

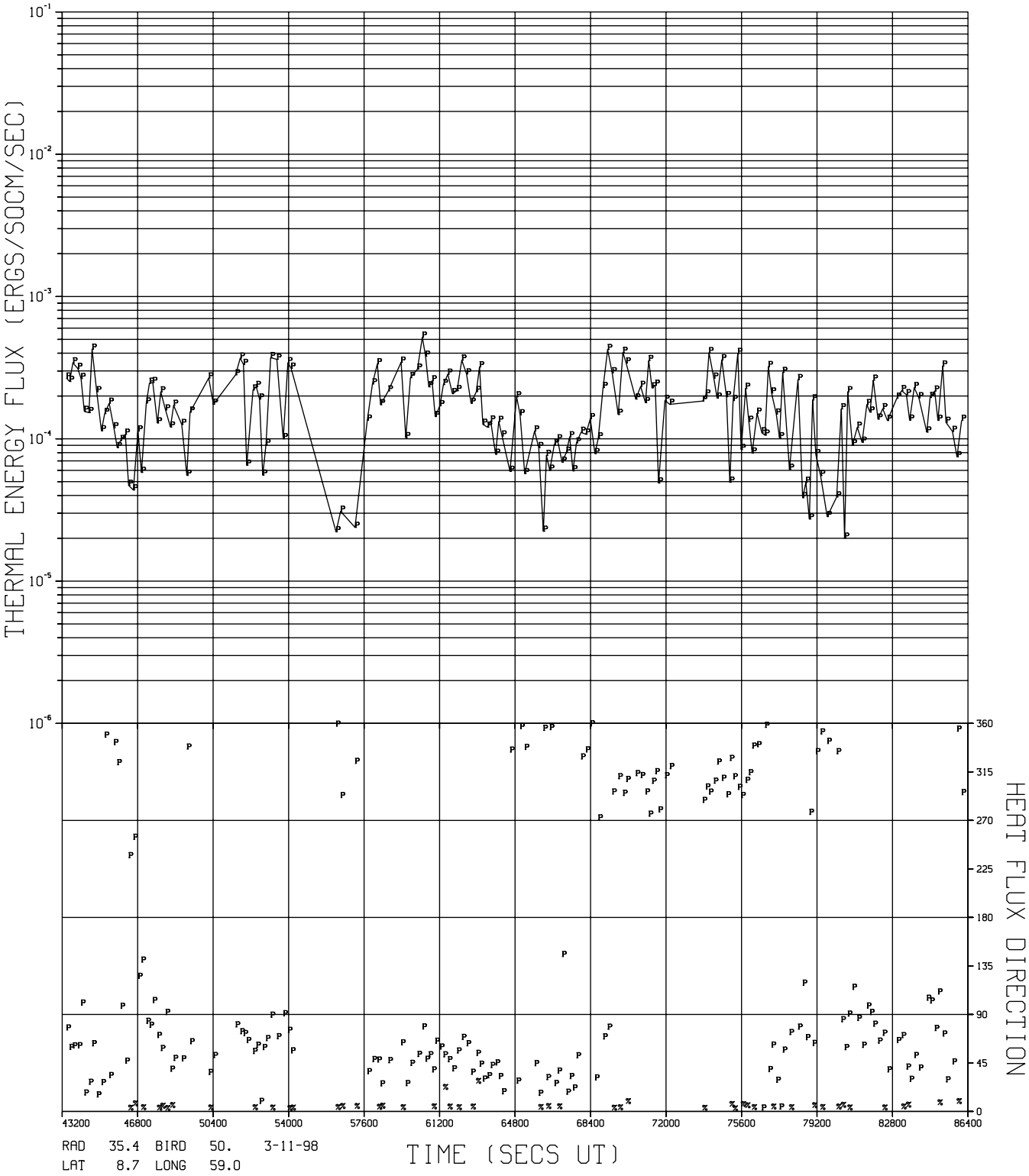

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 34.2 BIRD 50. 3-11-98
LAT 16.9 LONG 48.4

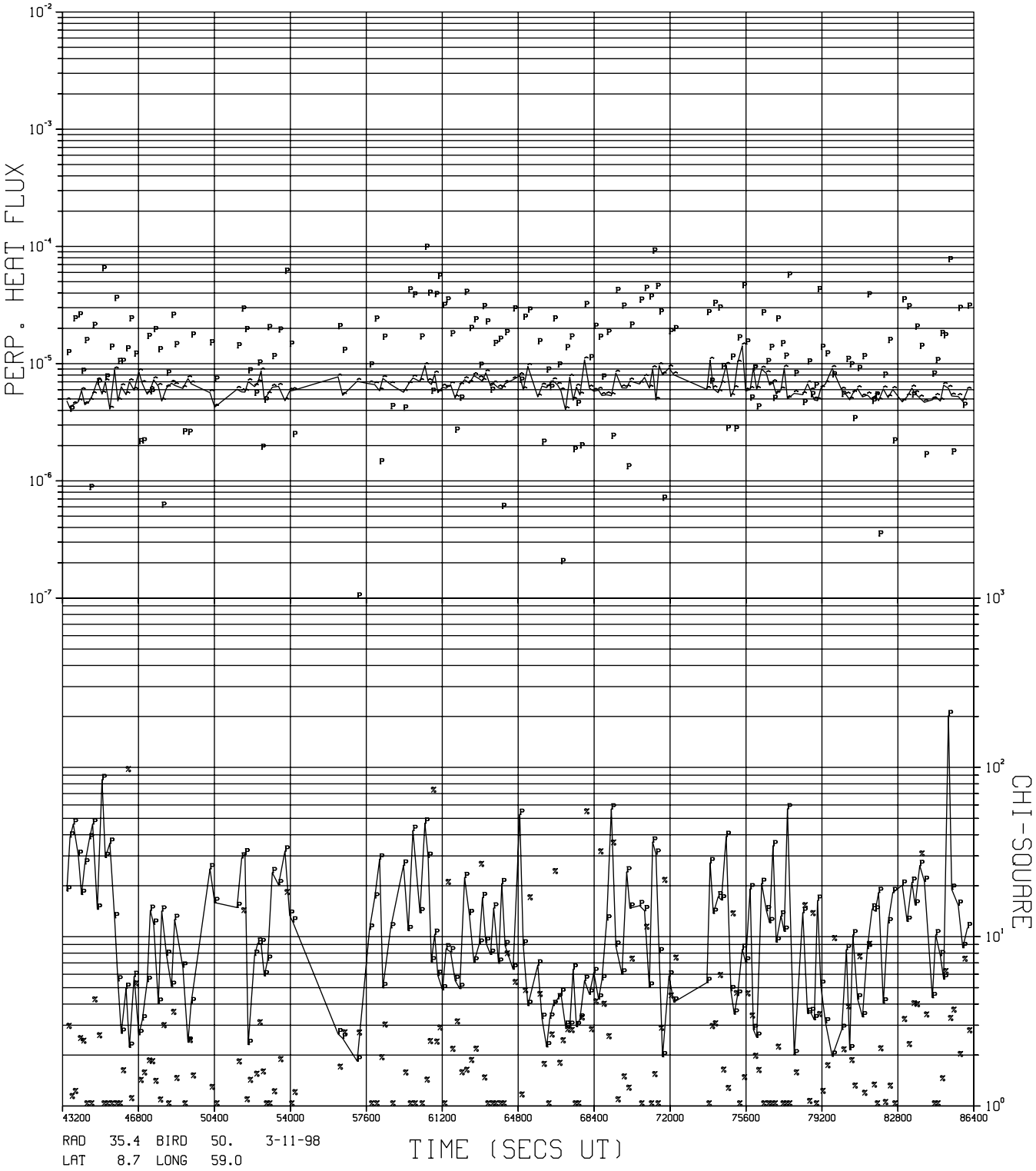

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

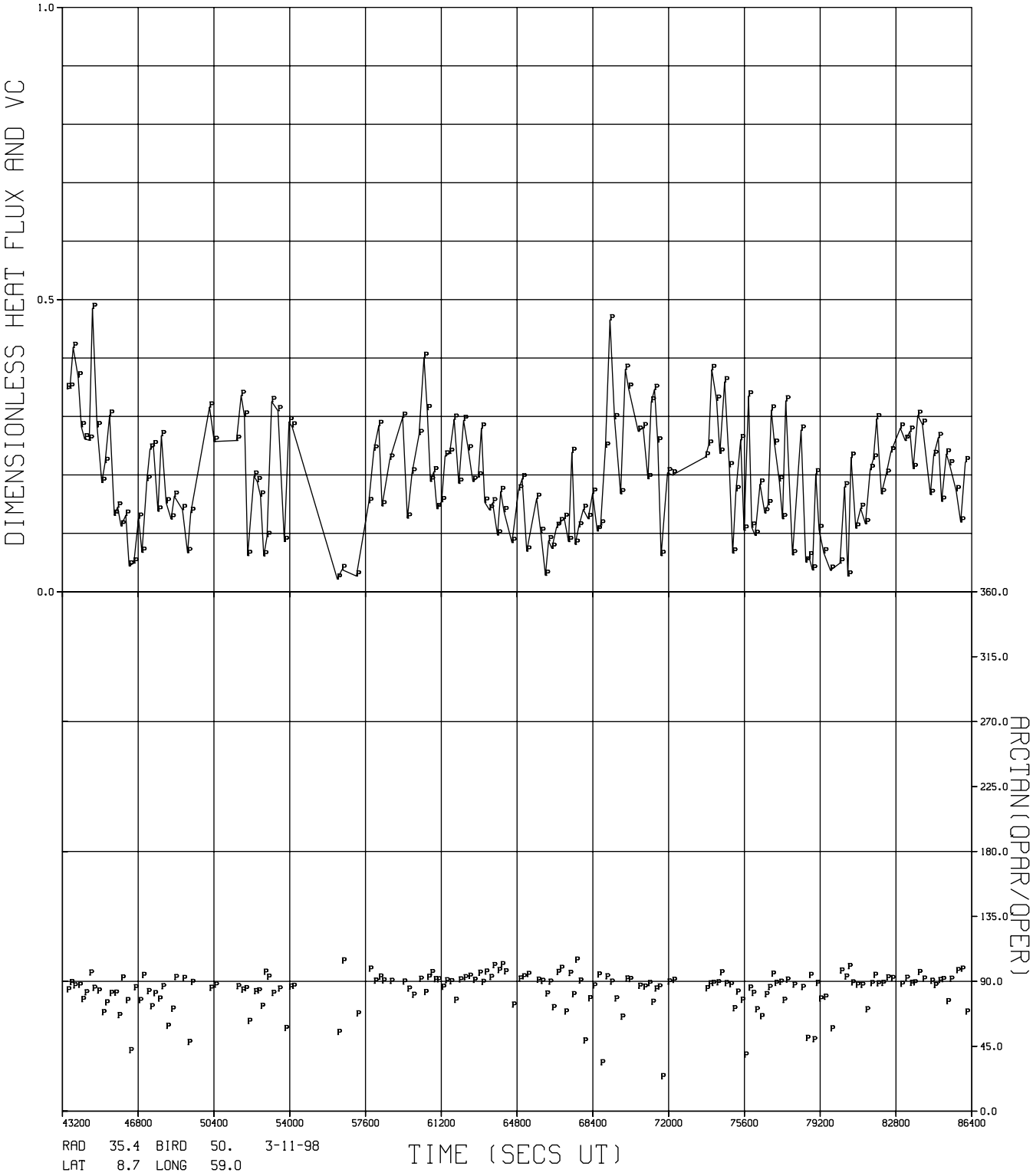

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

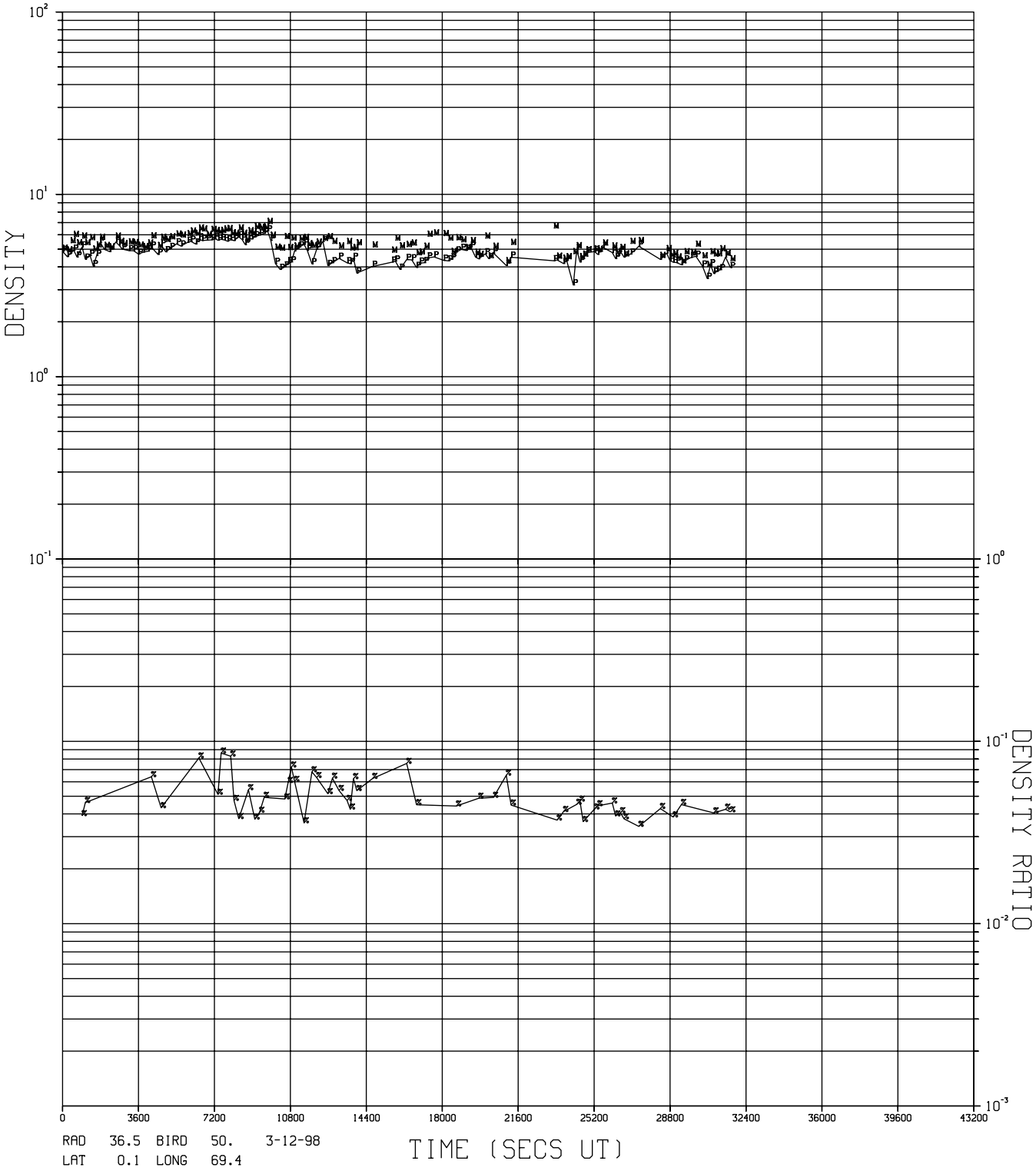

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

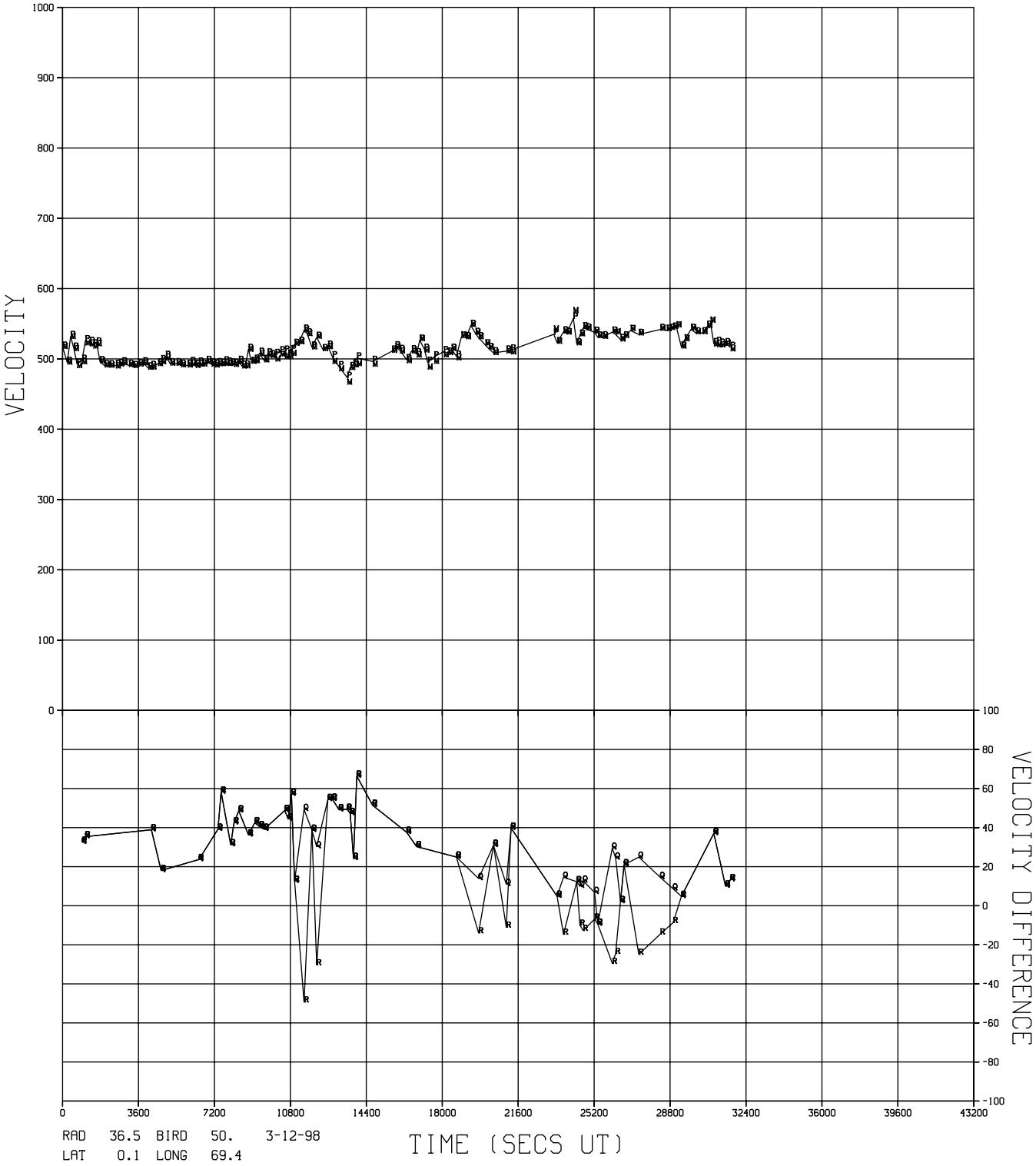

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

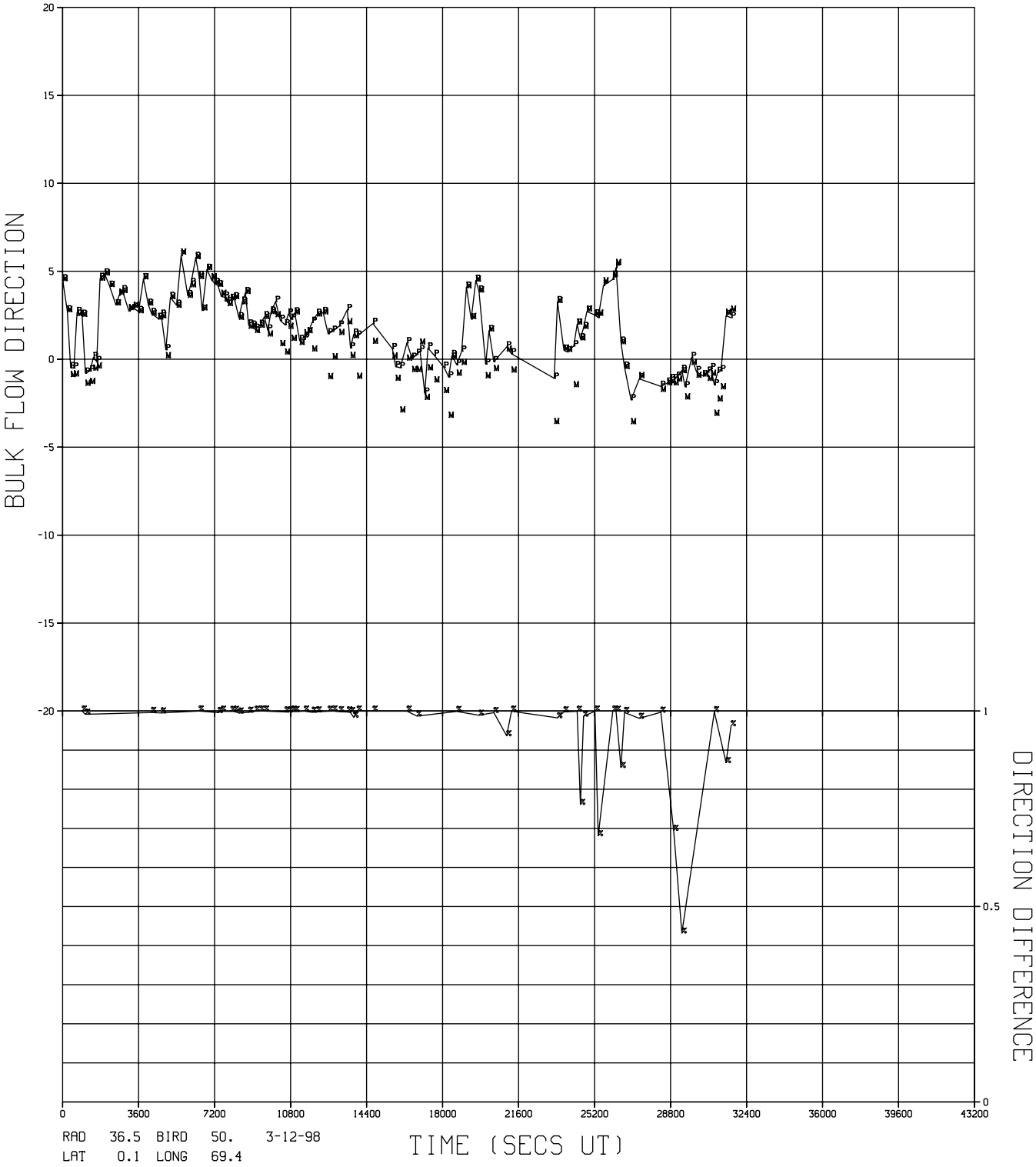

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

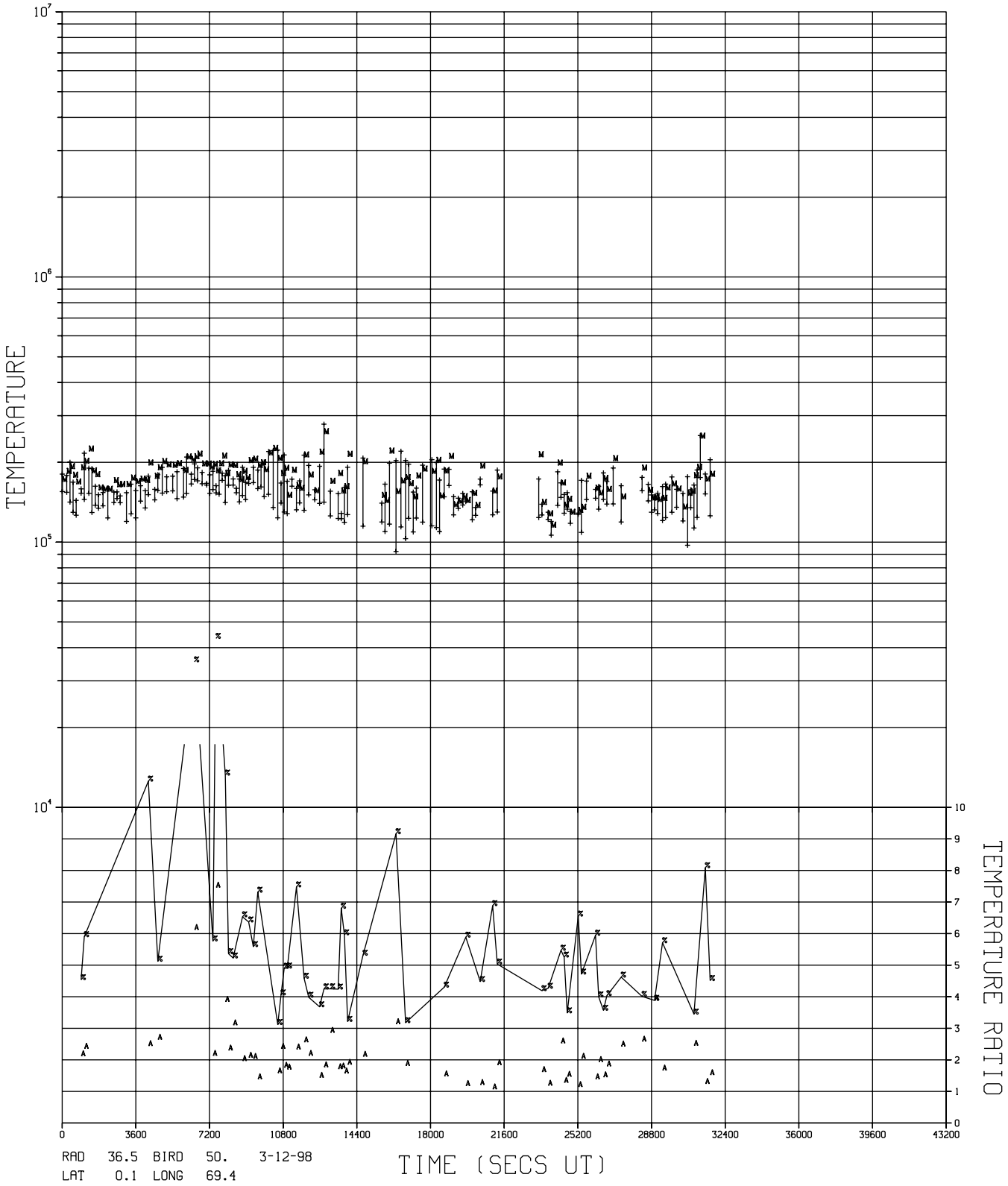

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

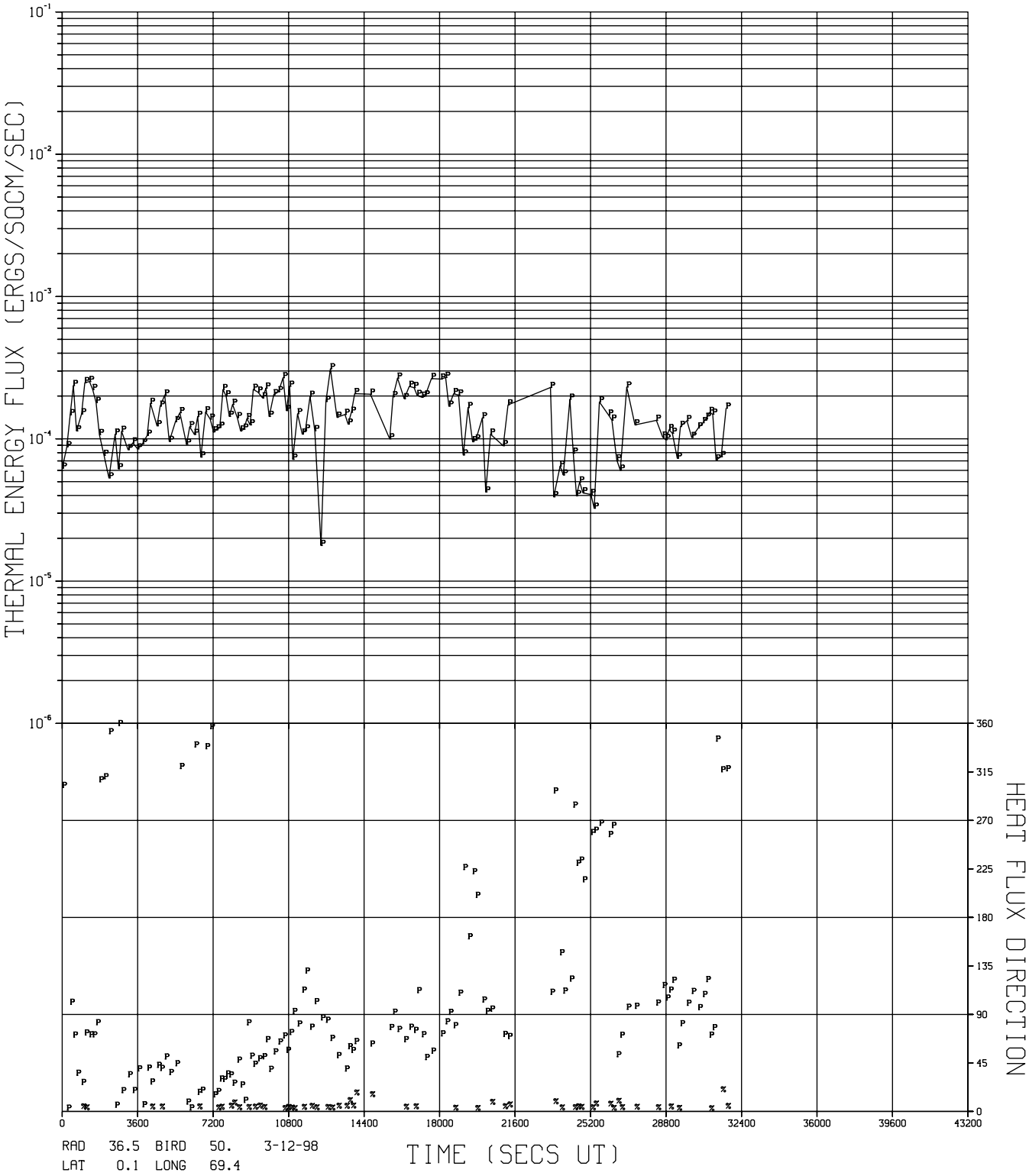

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.4 BIRD 50. 3-11-98
LAT 8.7 LONG 59.0

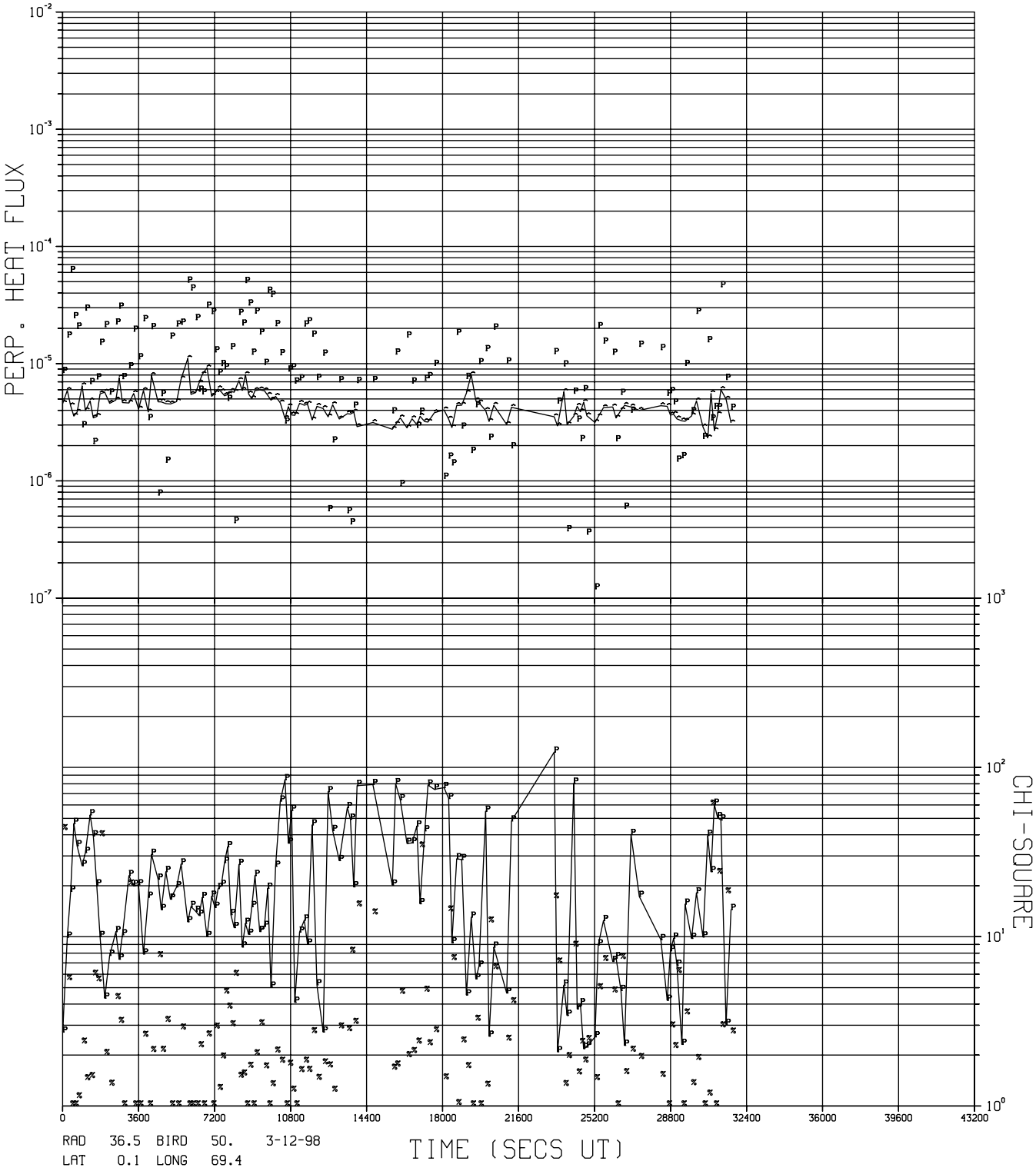

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4

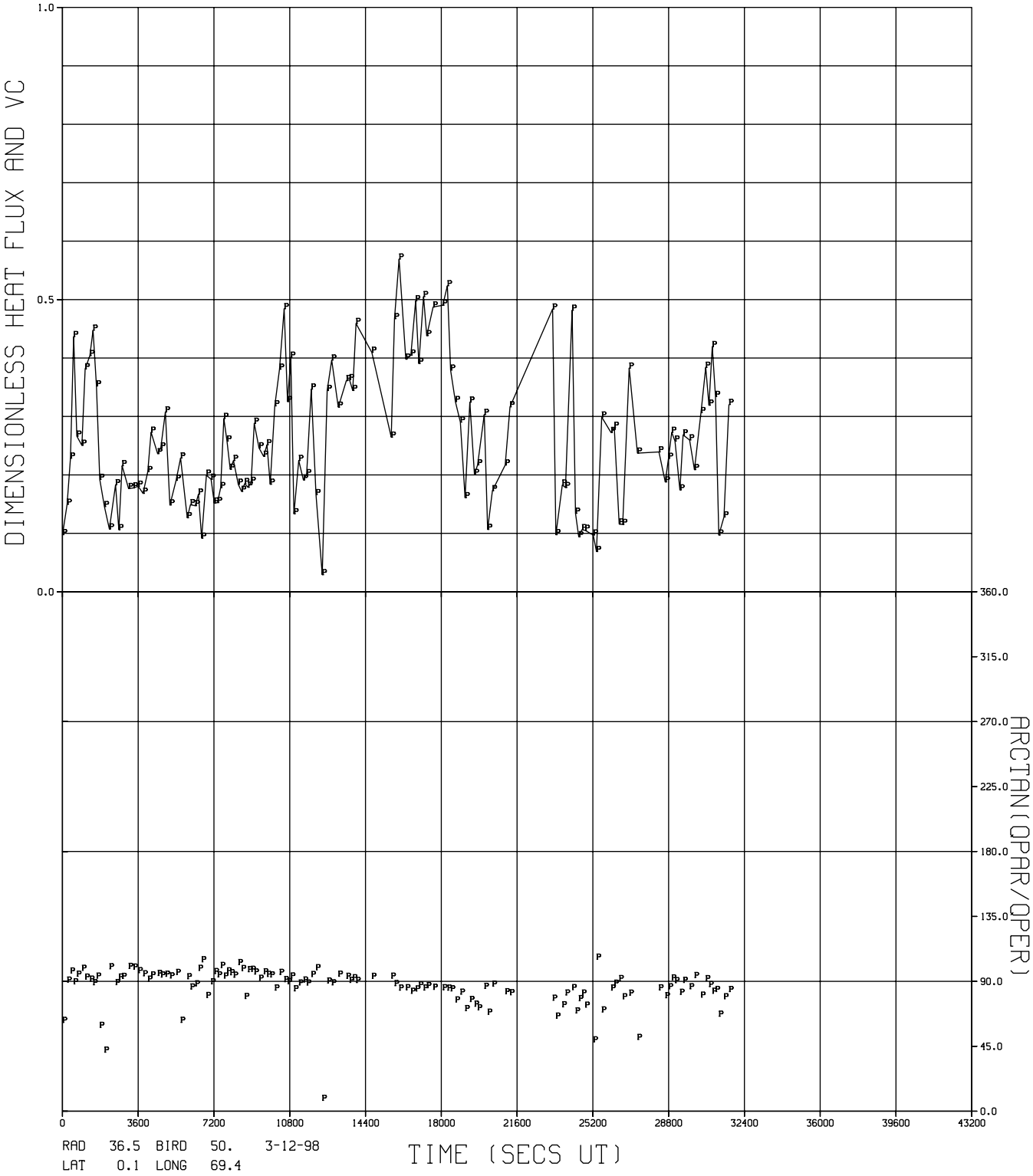

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4


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 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4



RAD 36.5 BIRD 50. 3-12-98
LAT 0.1 LONG 69.4