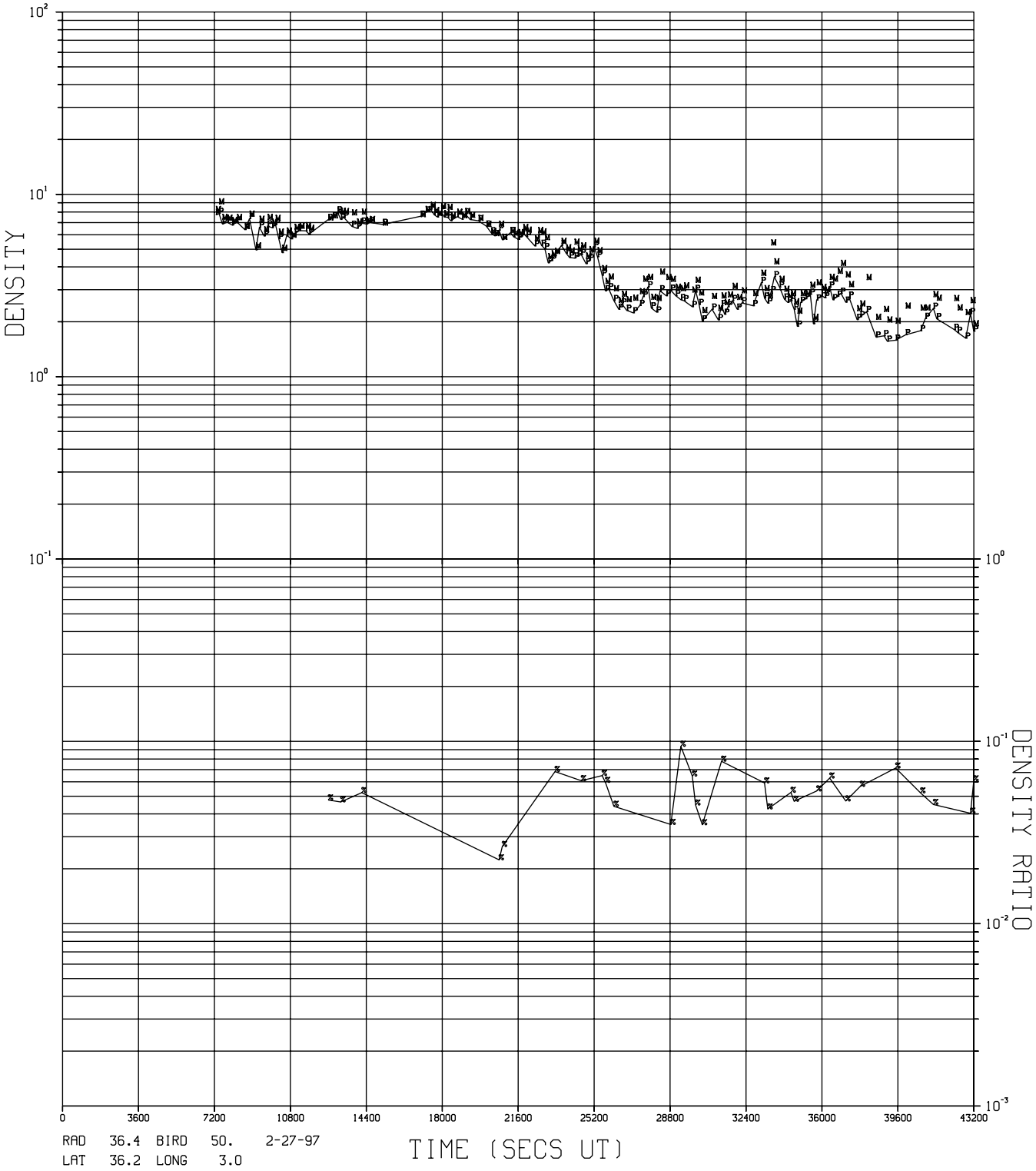
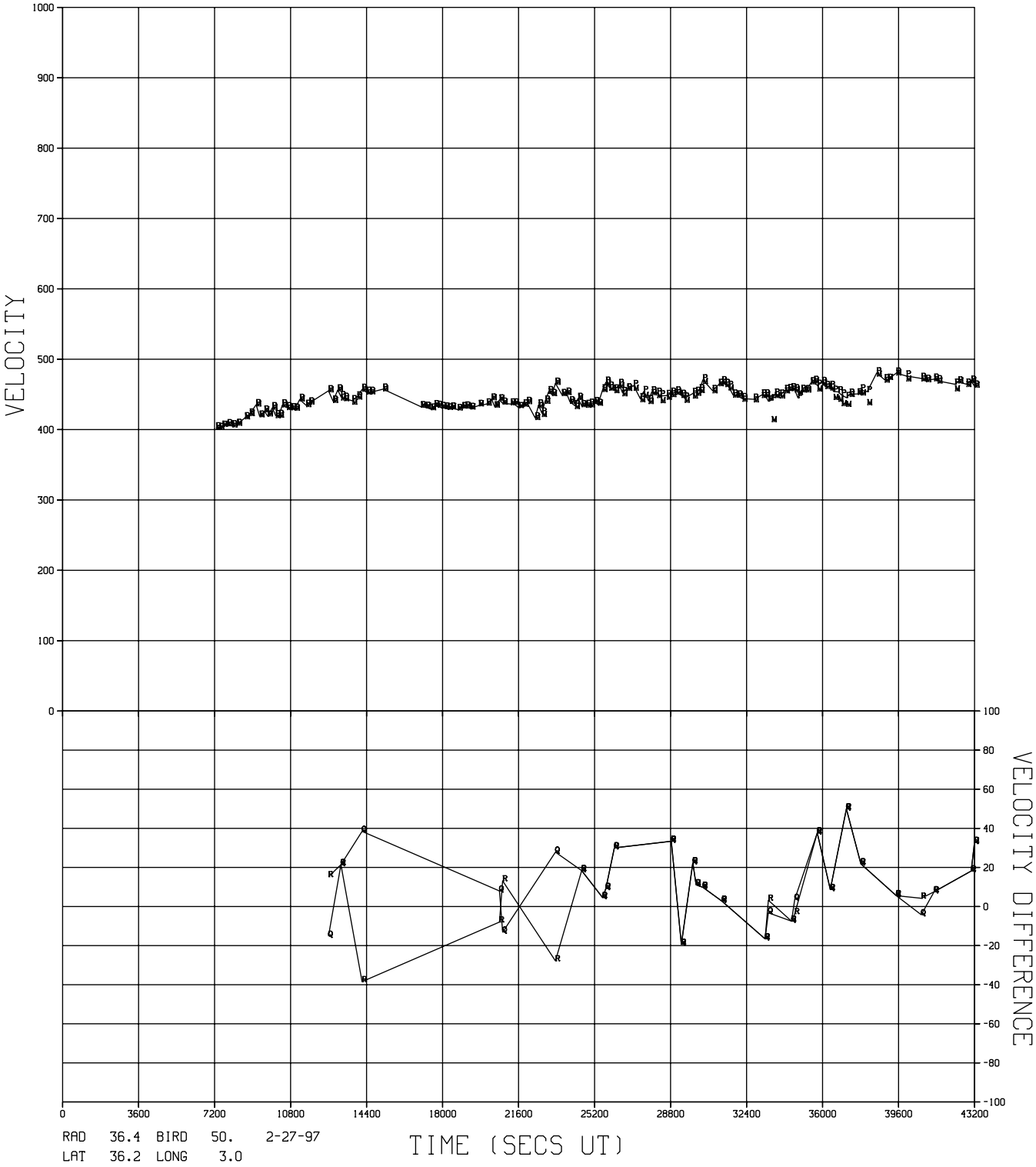
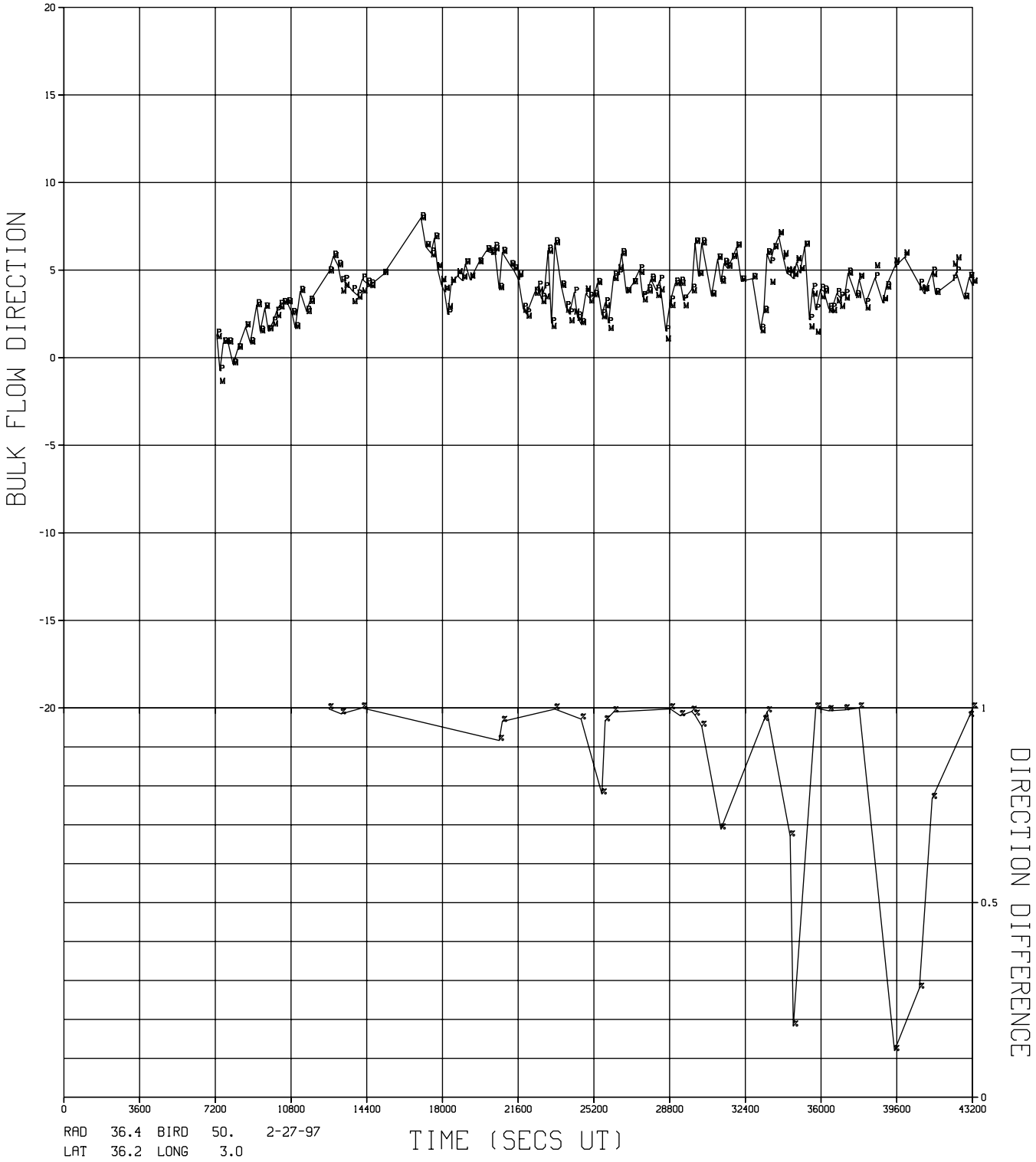
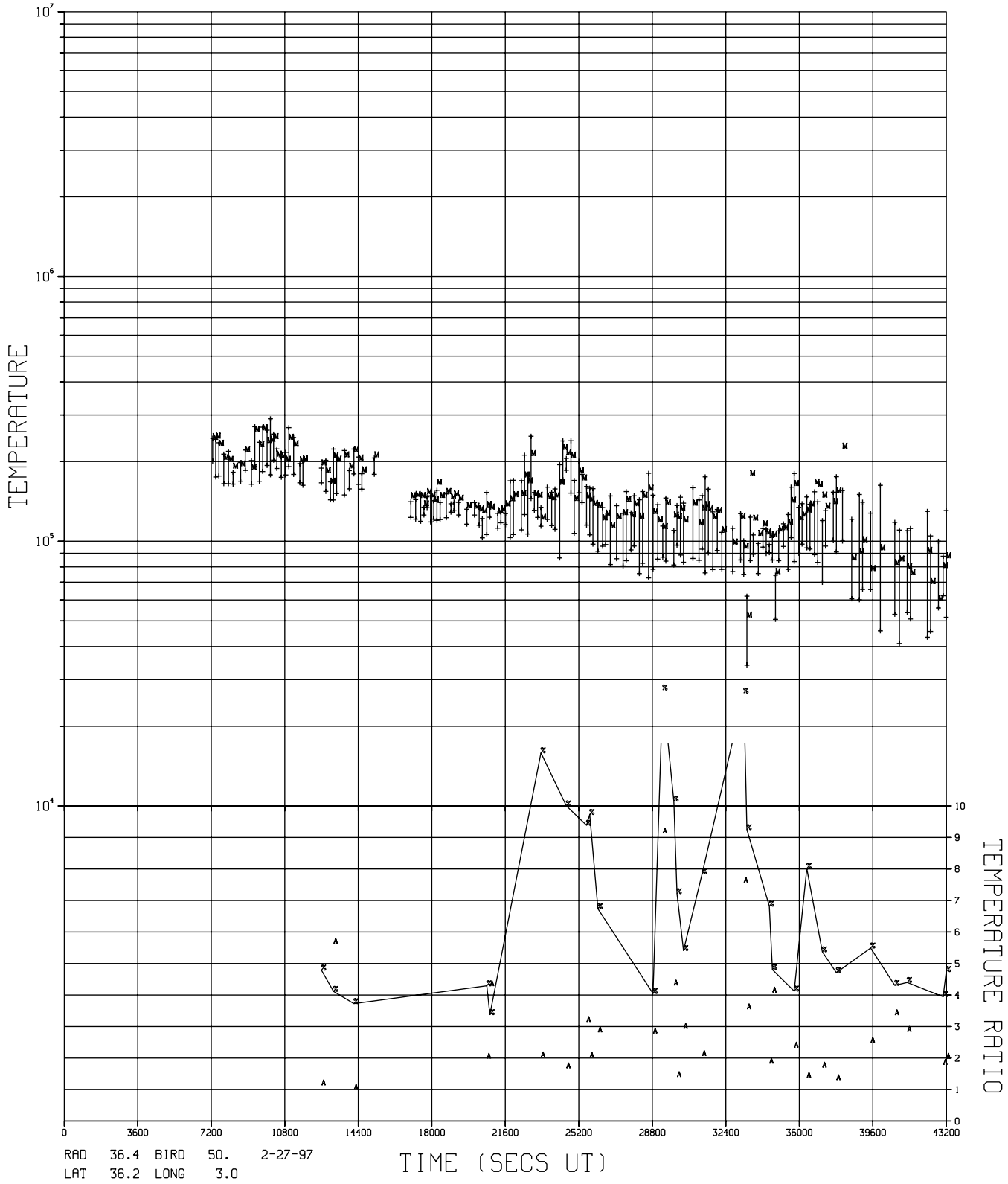
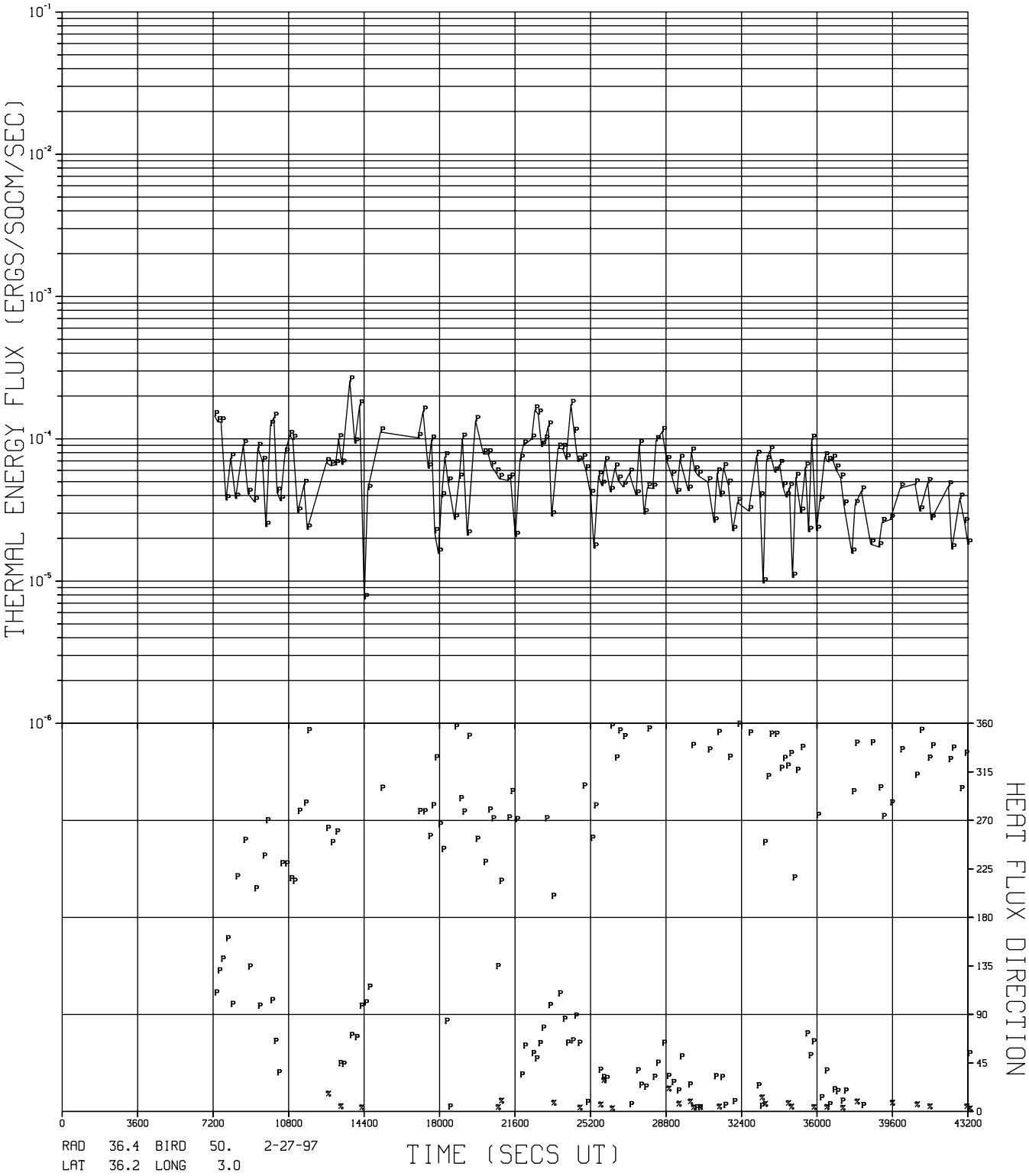
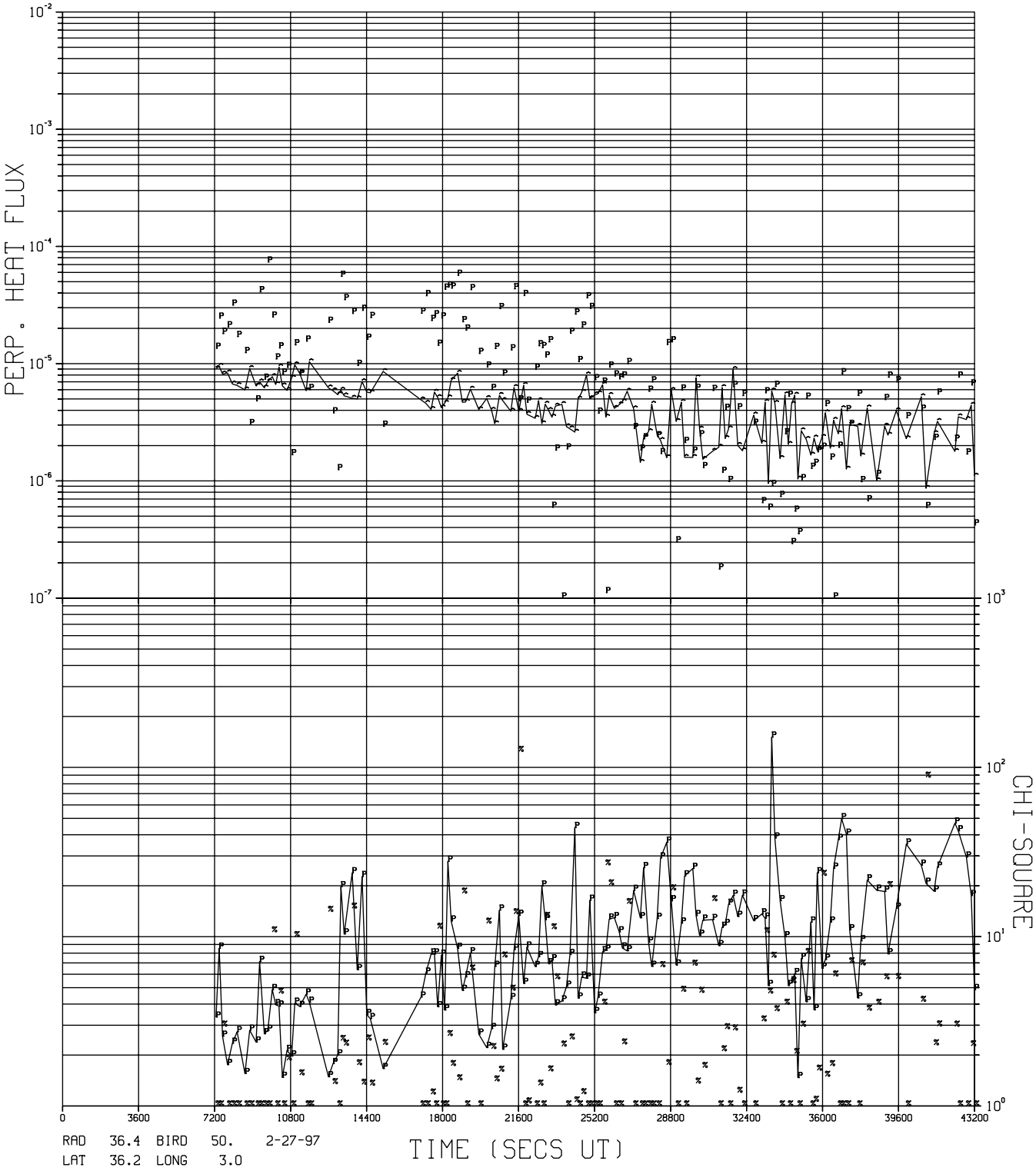

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

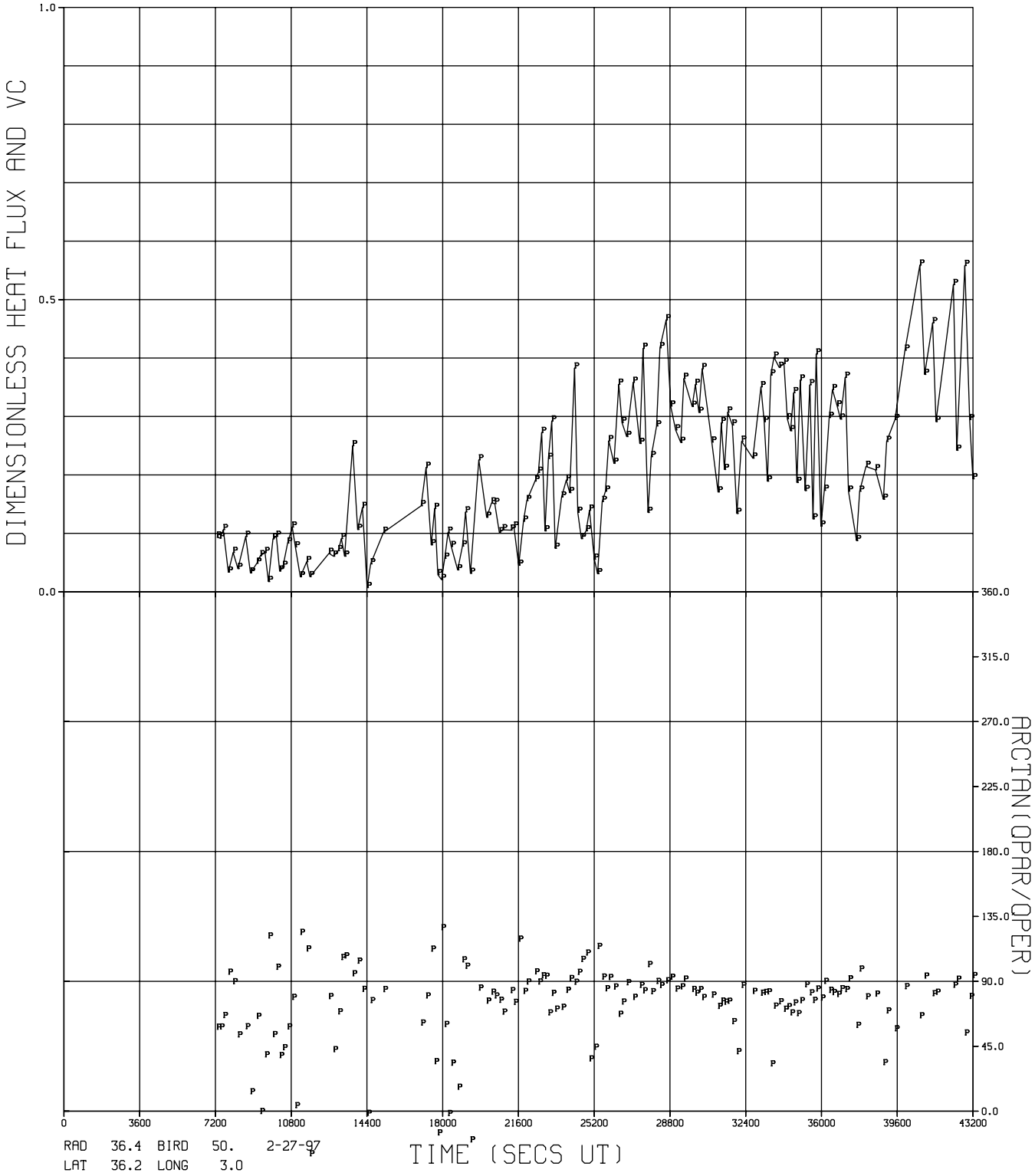

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

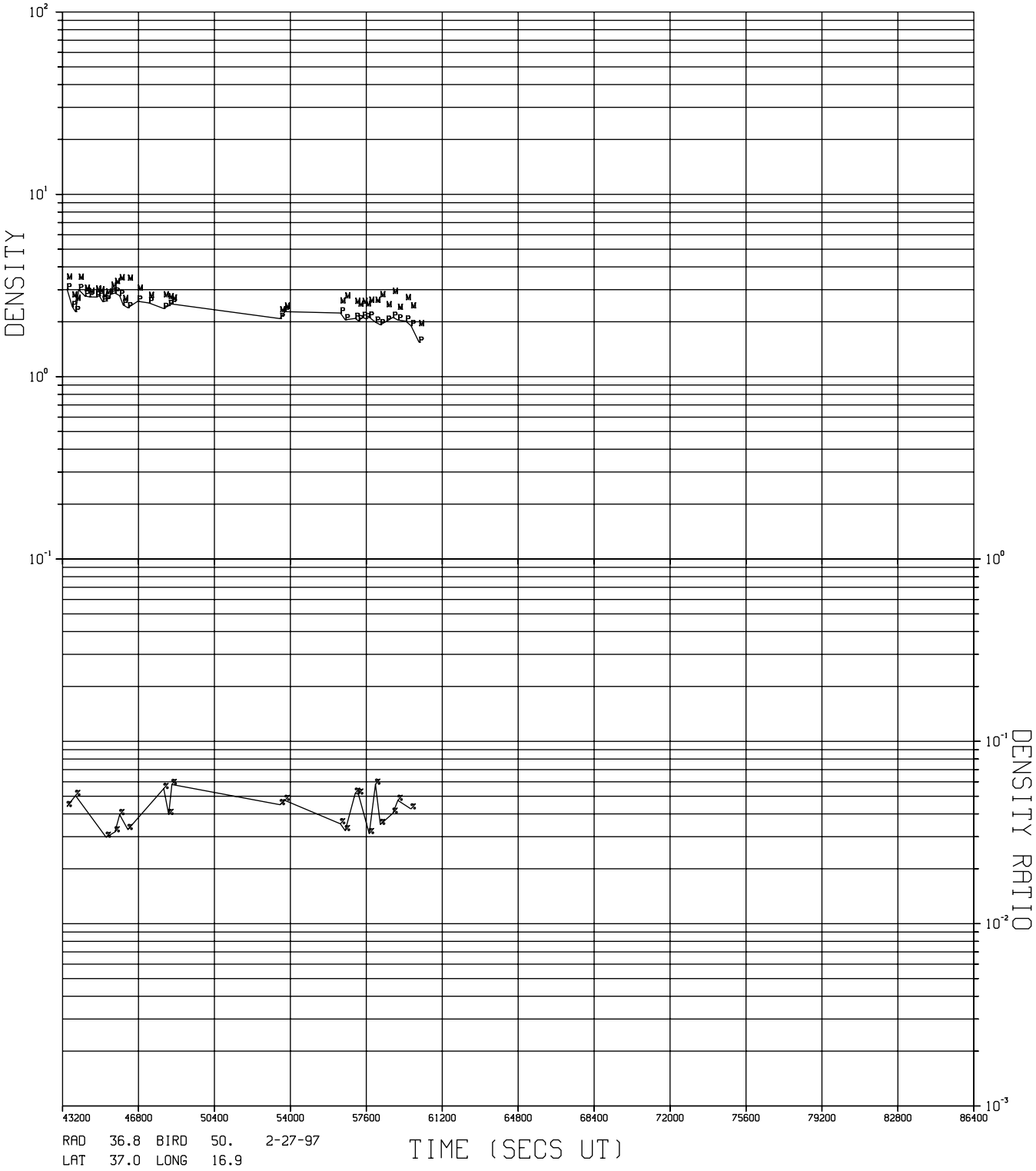

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

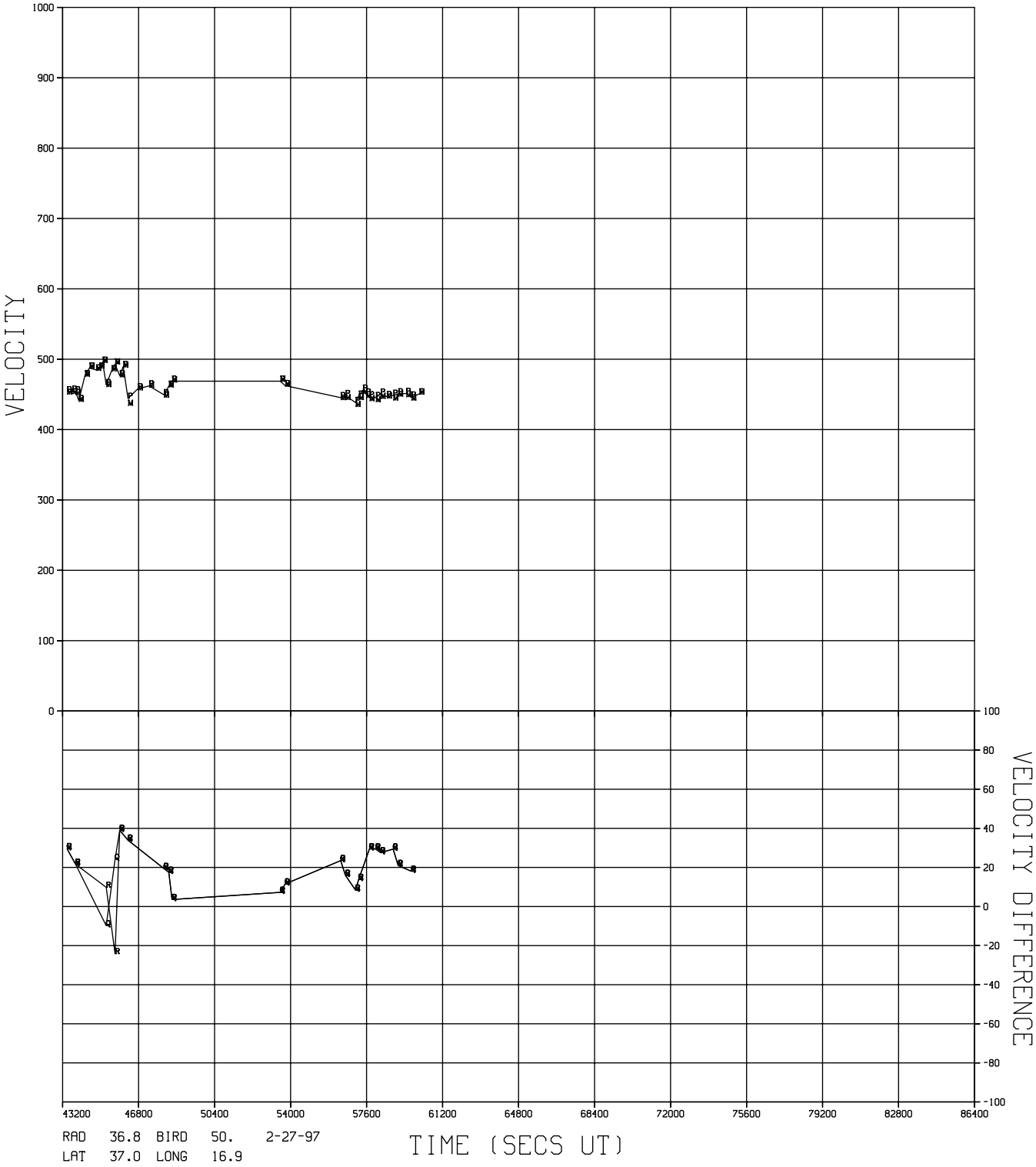

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

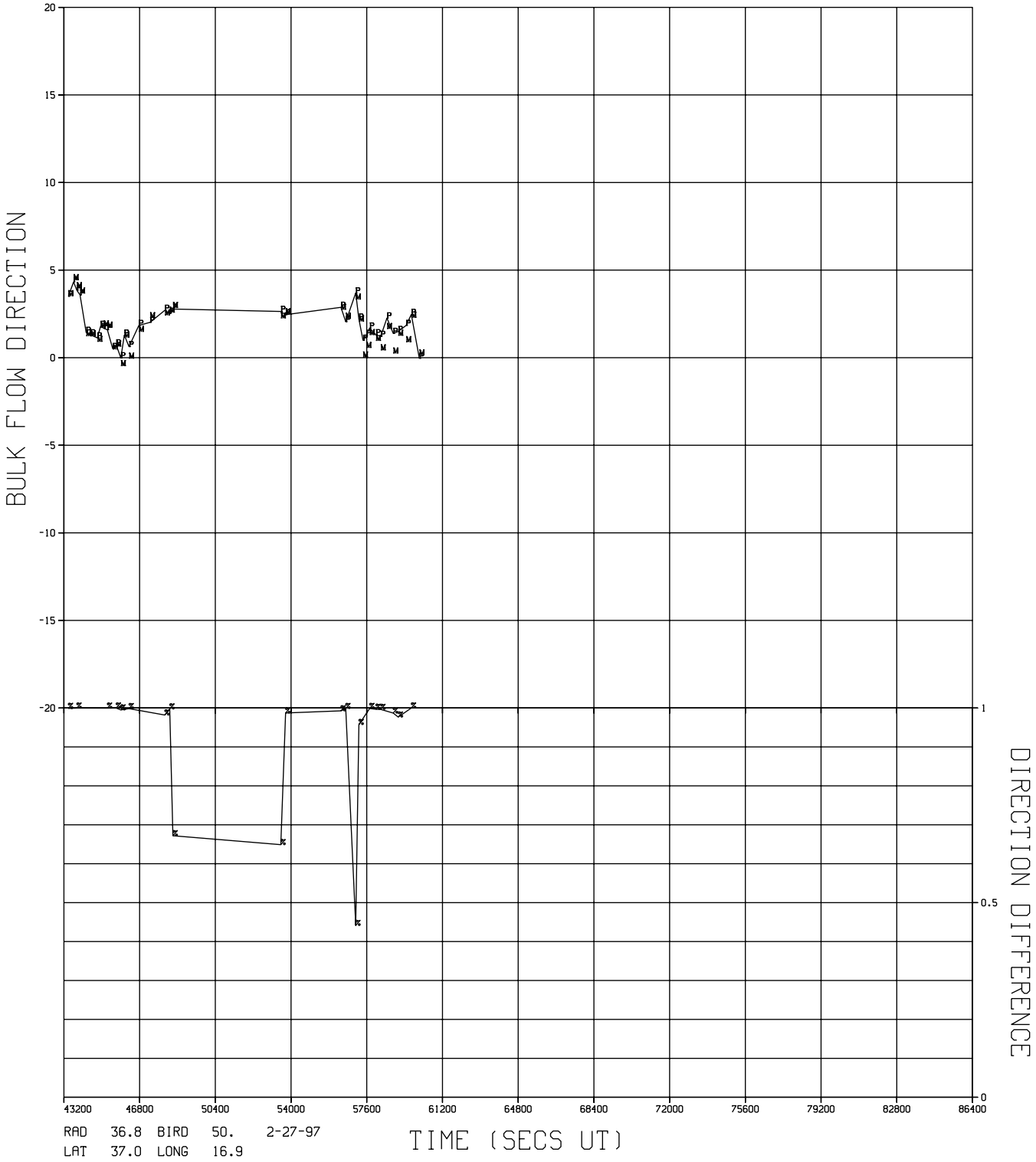

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

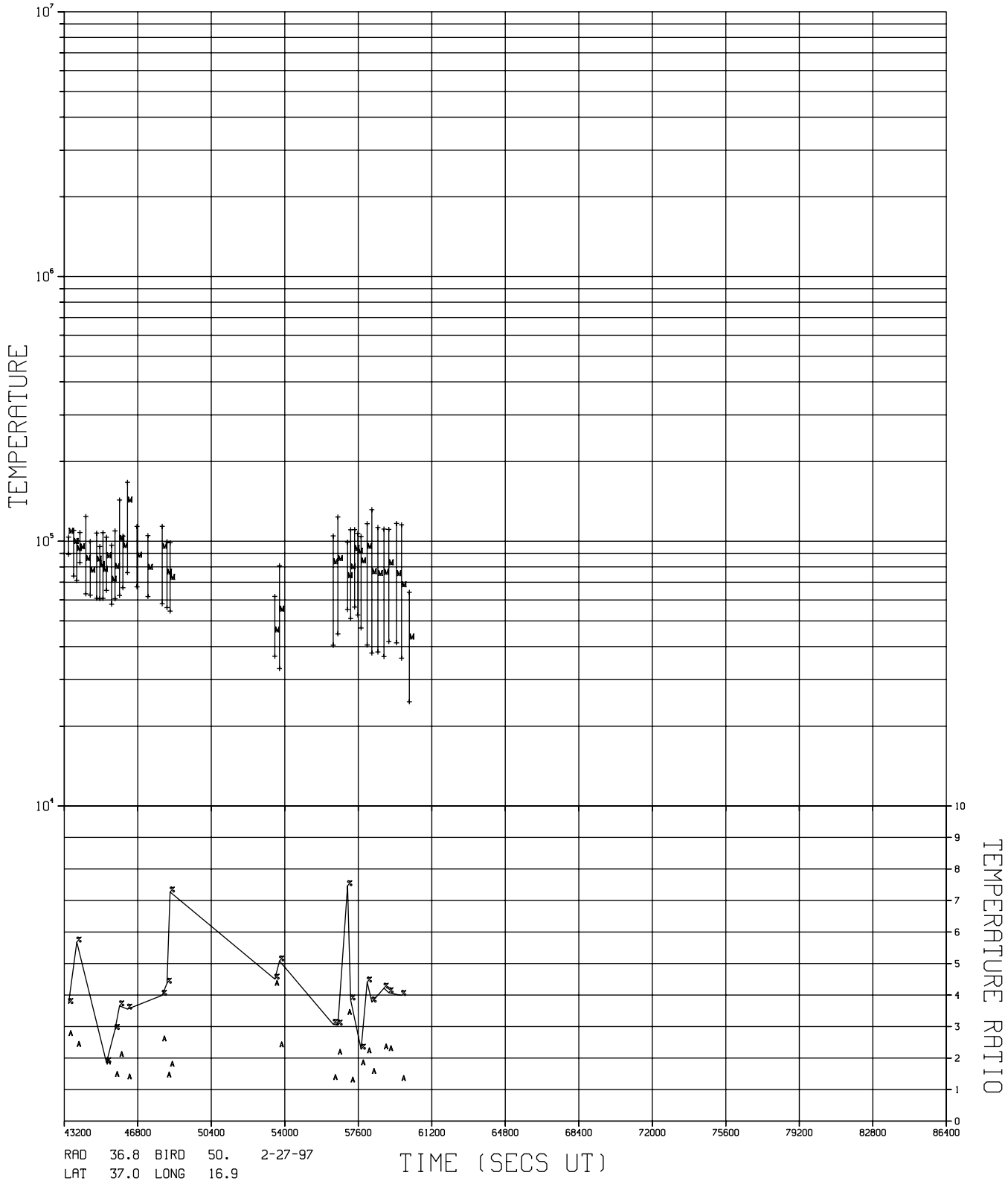

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

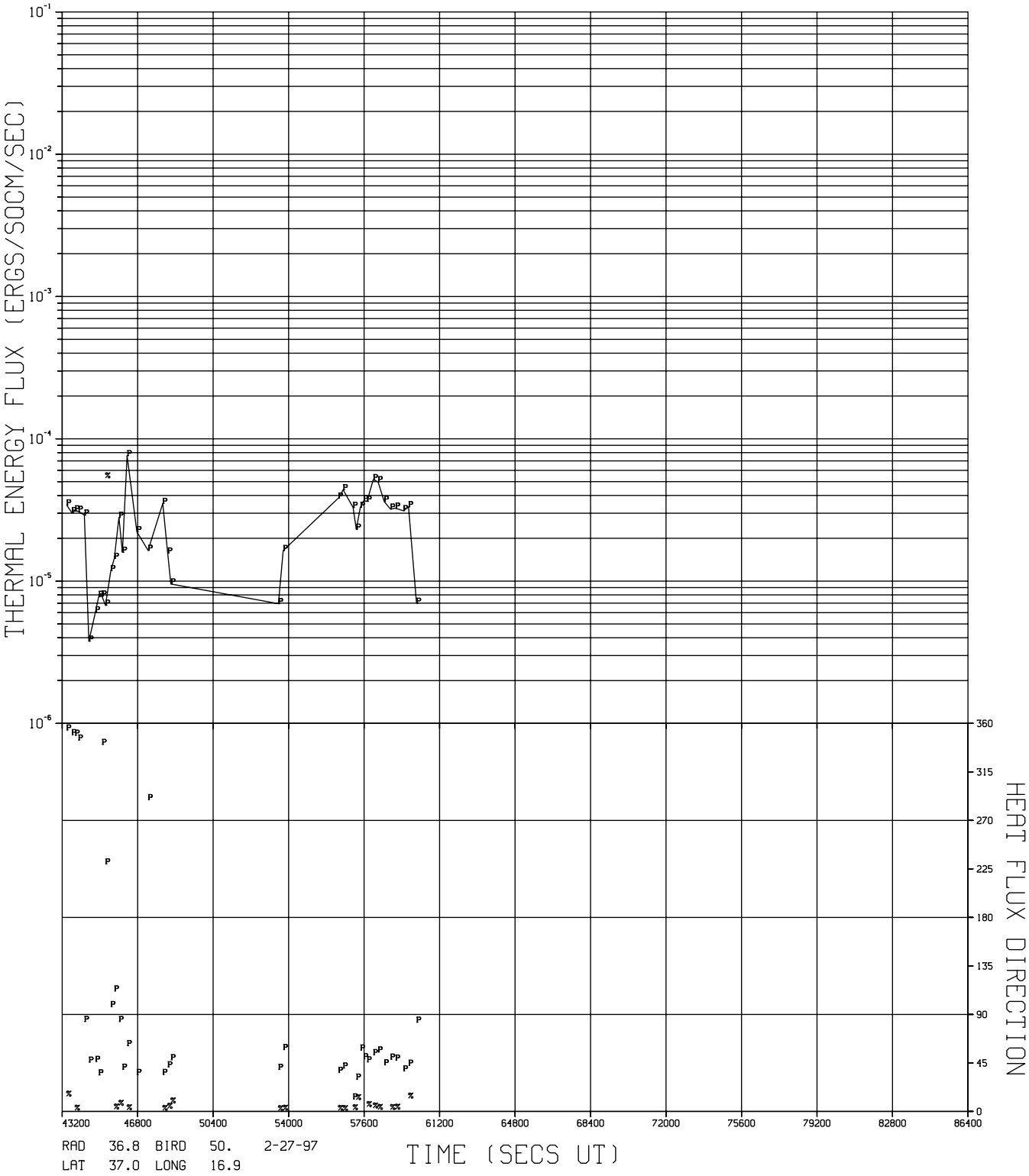

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.4 BIRD 50. 2-27-97
LAT 36.2 LONG 3.0

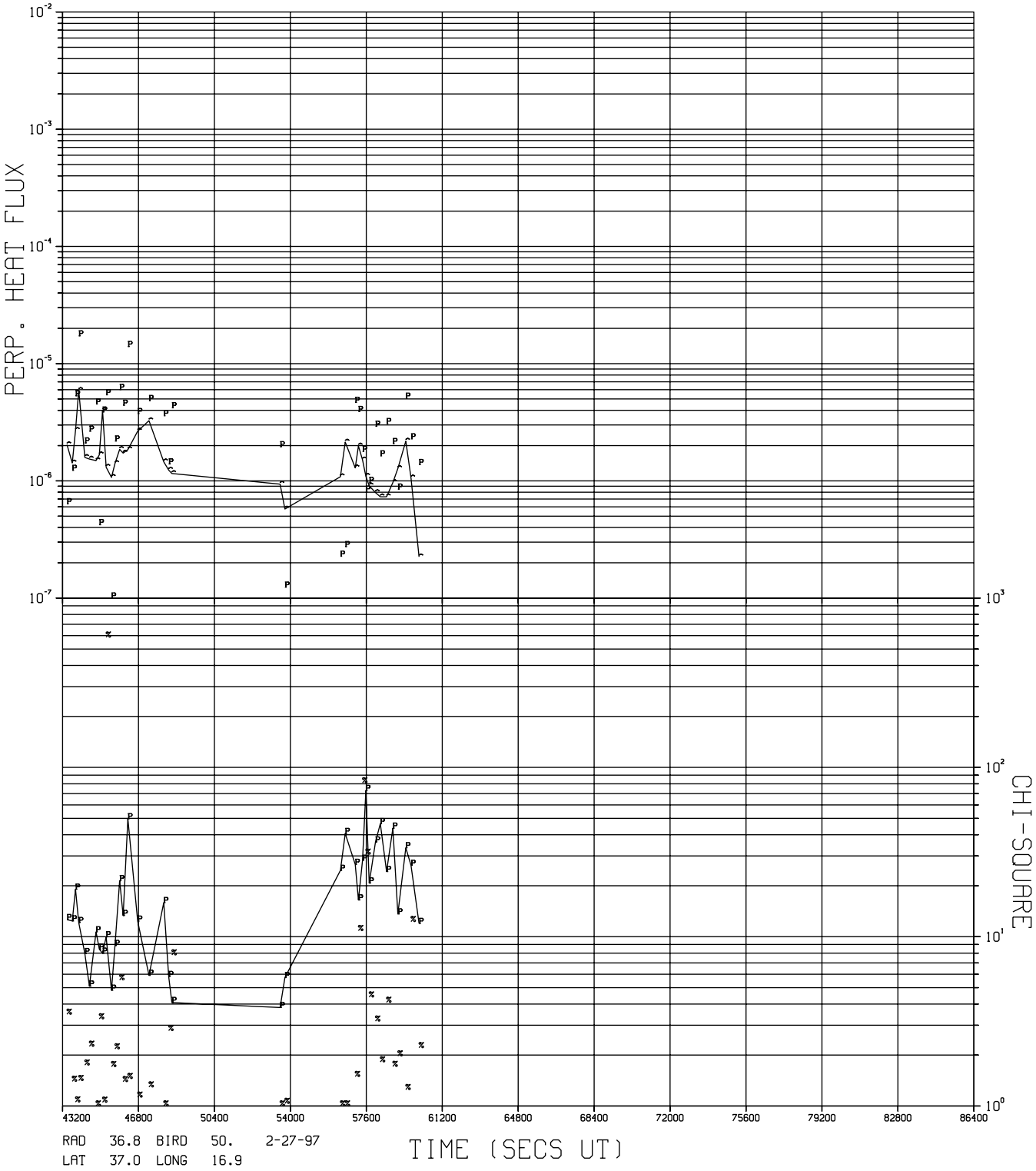

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

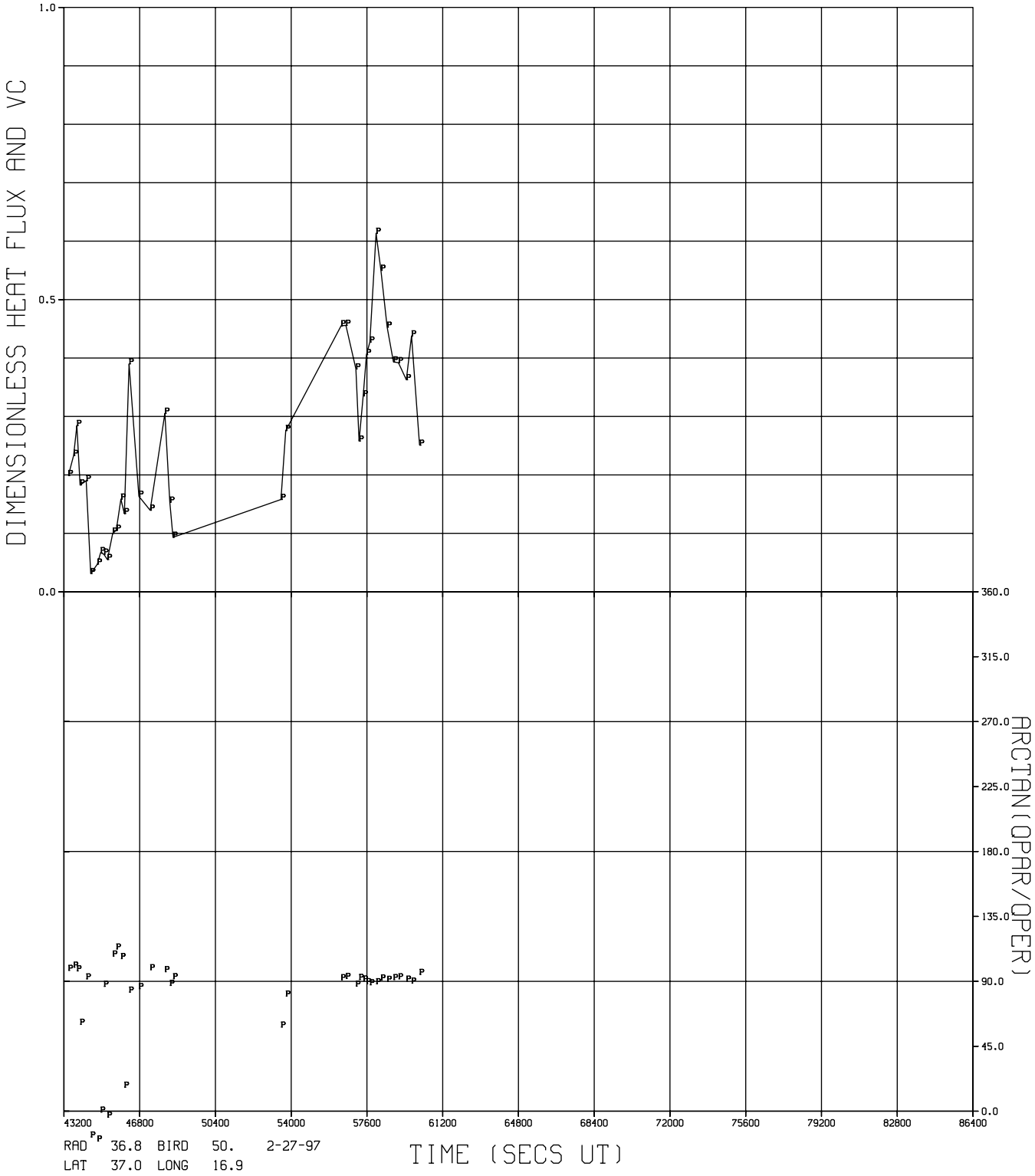

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
1000
900
800
700
600
500
400
300
200
100
0
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

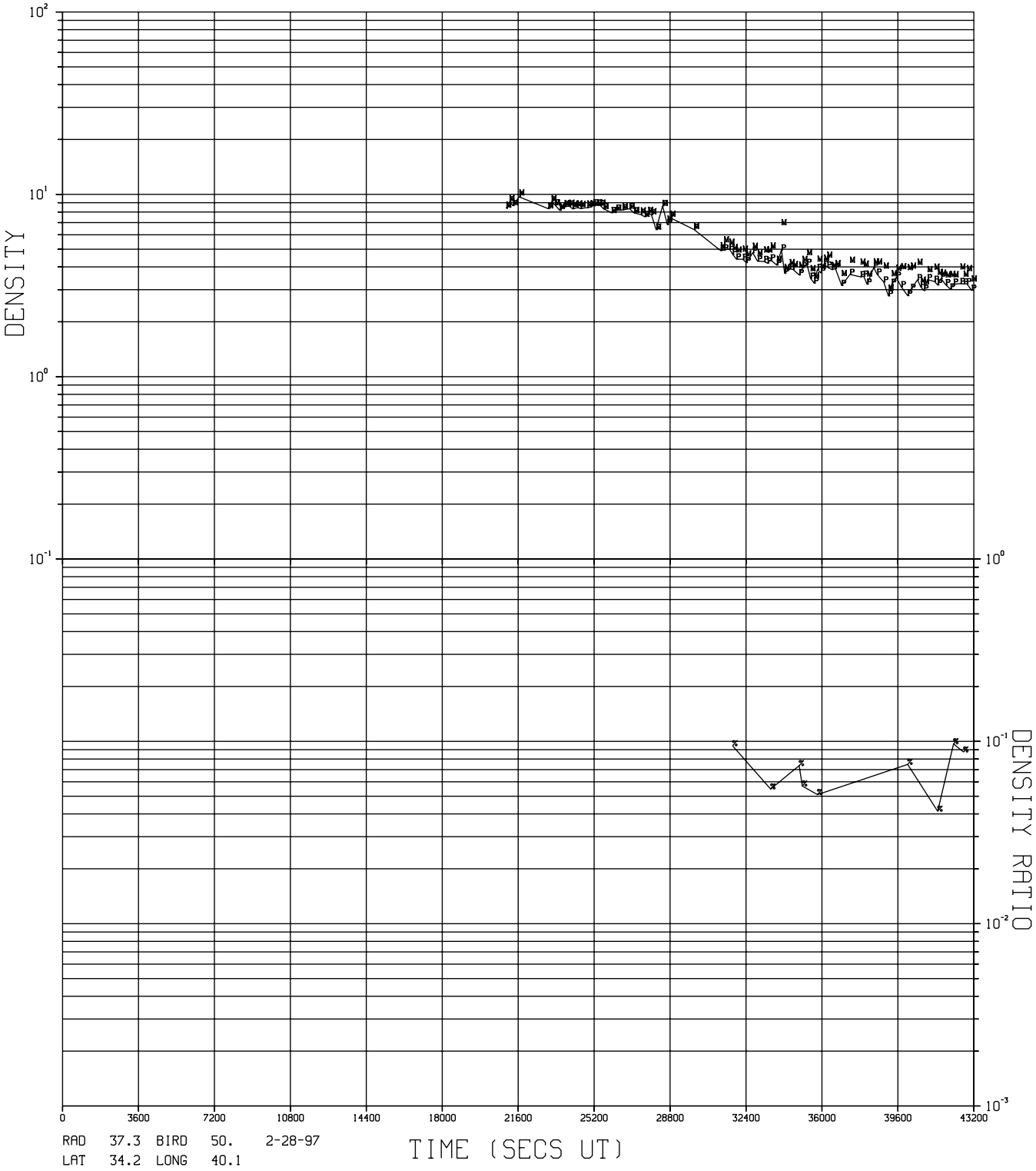

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

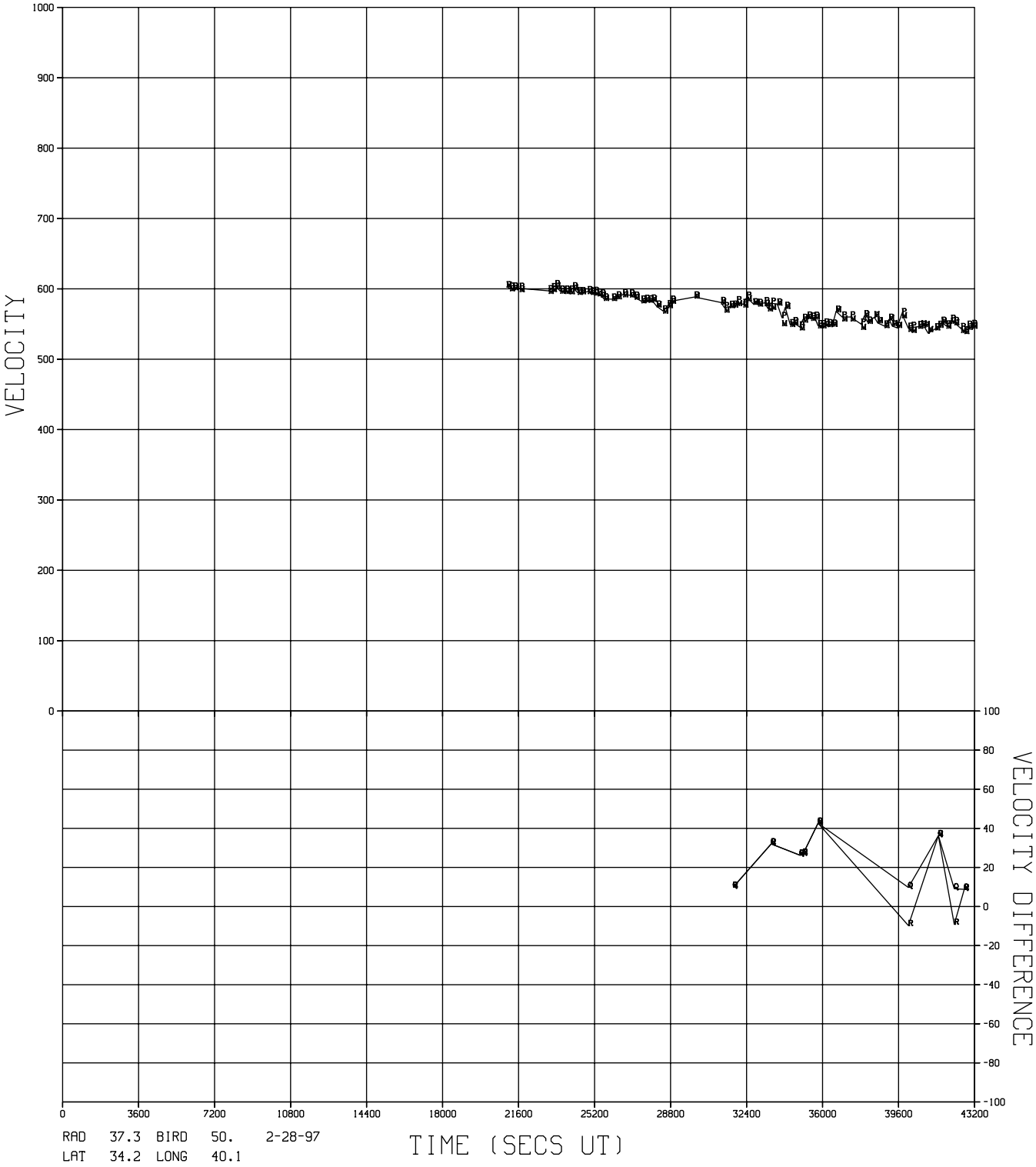

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

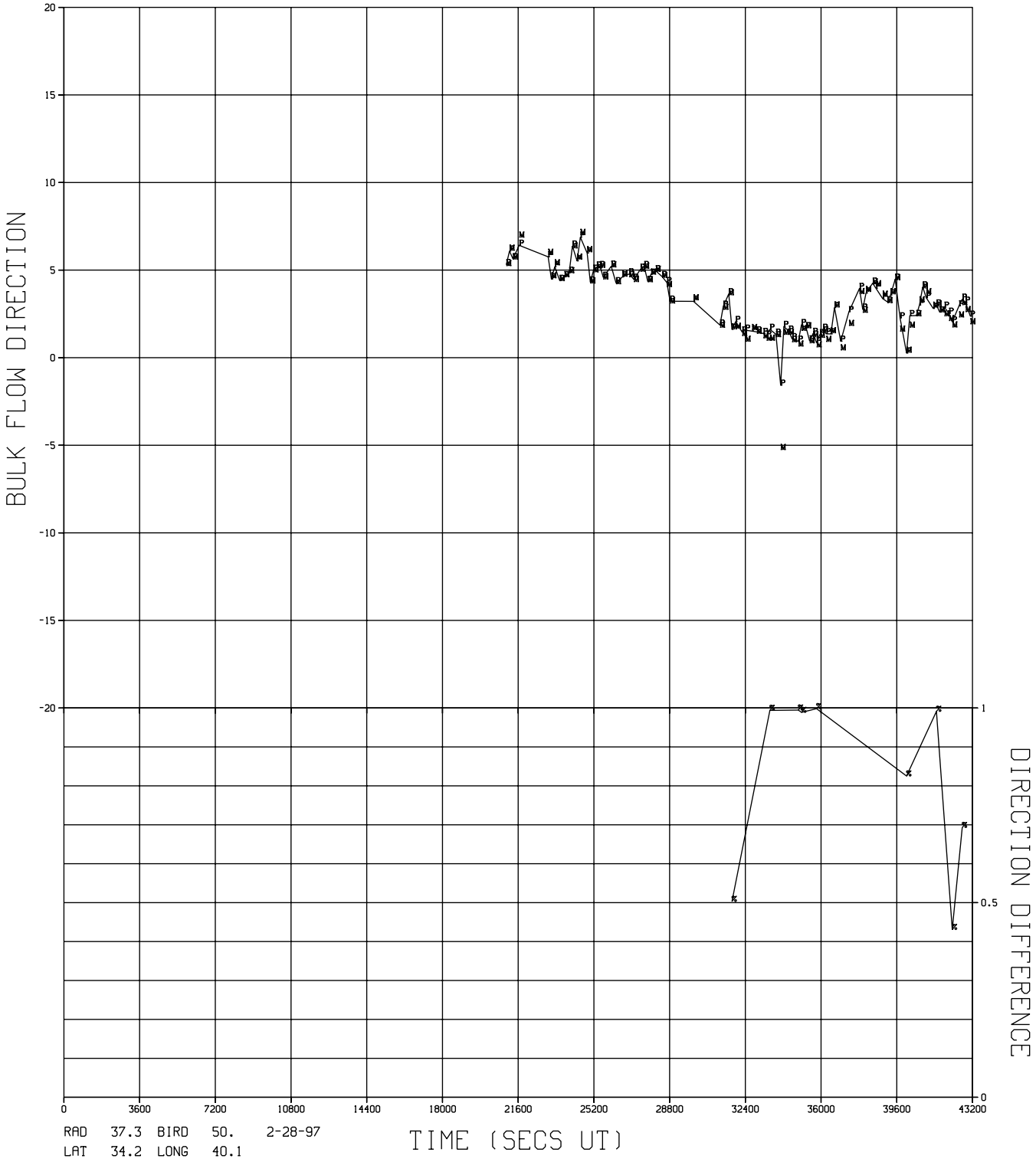

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

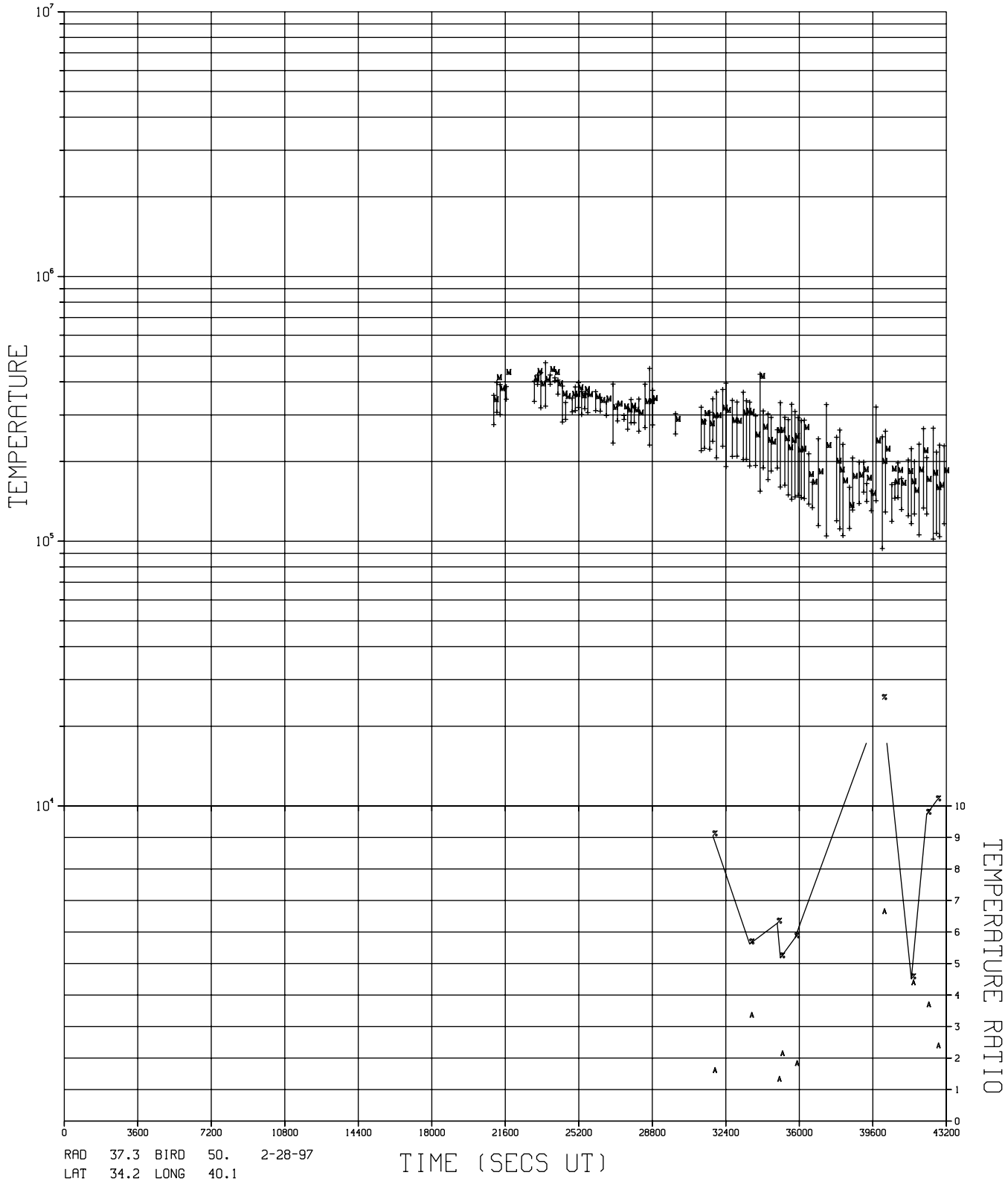

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

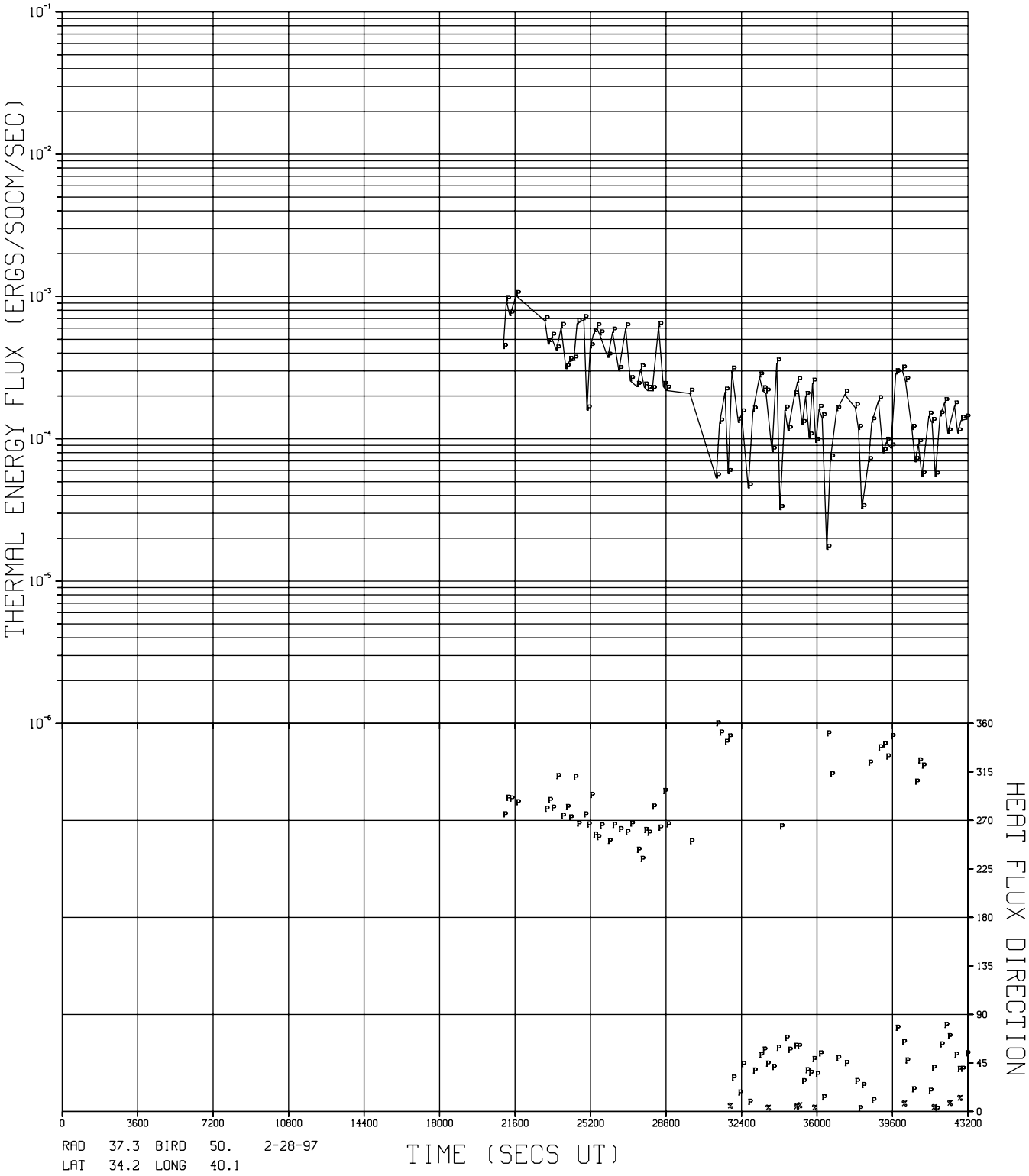

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 36.8 BIRD 50. 2-27-97
LAT 37.0 LONG 16.9

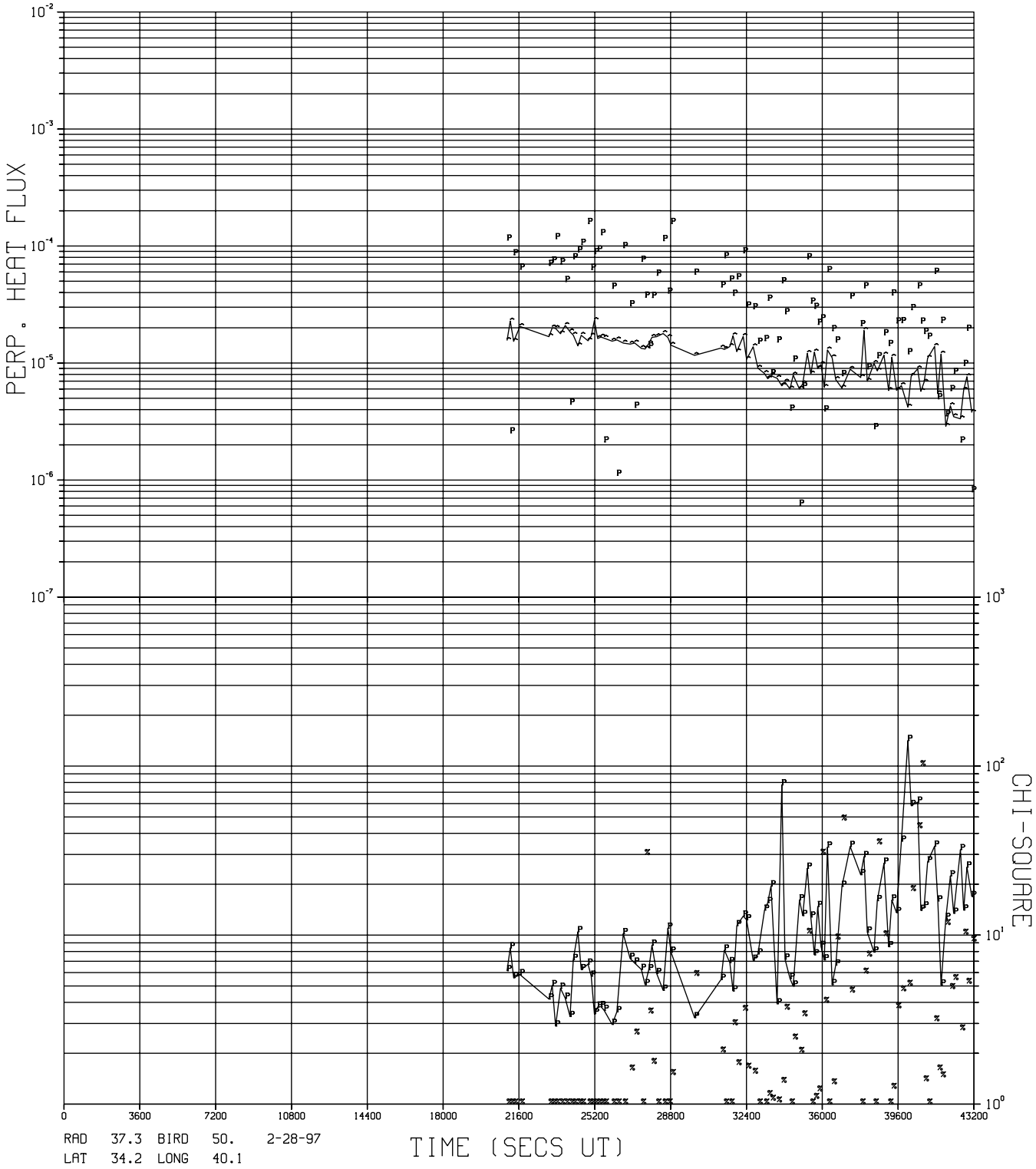

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

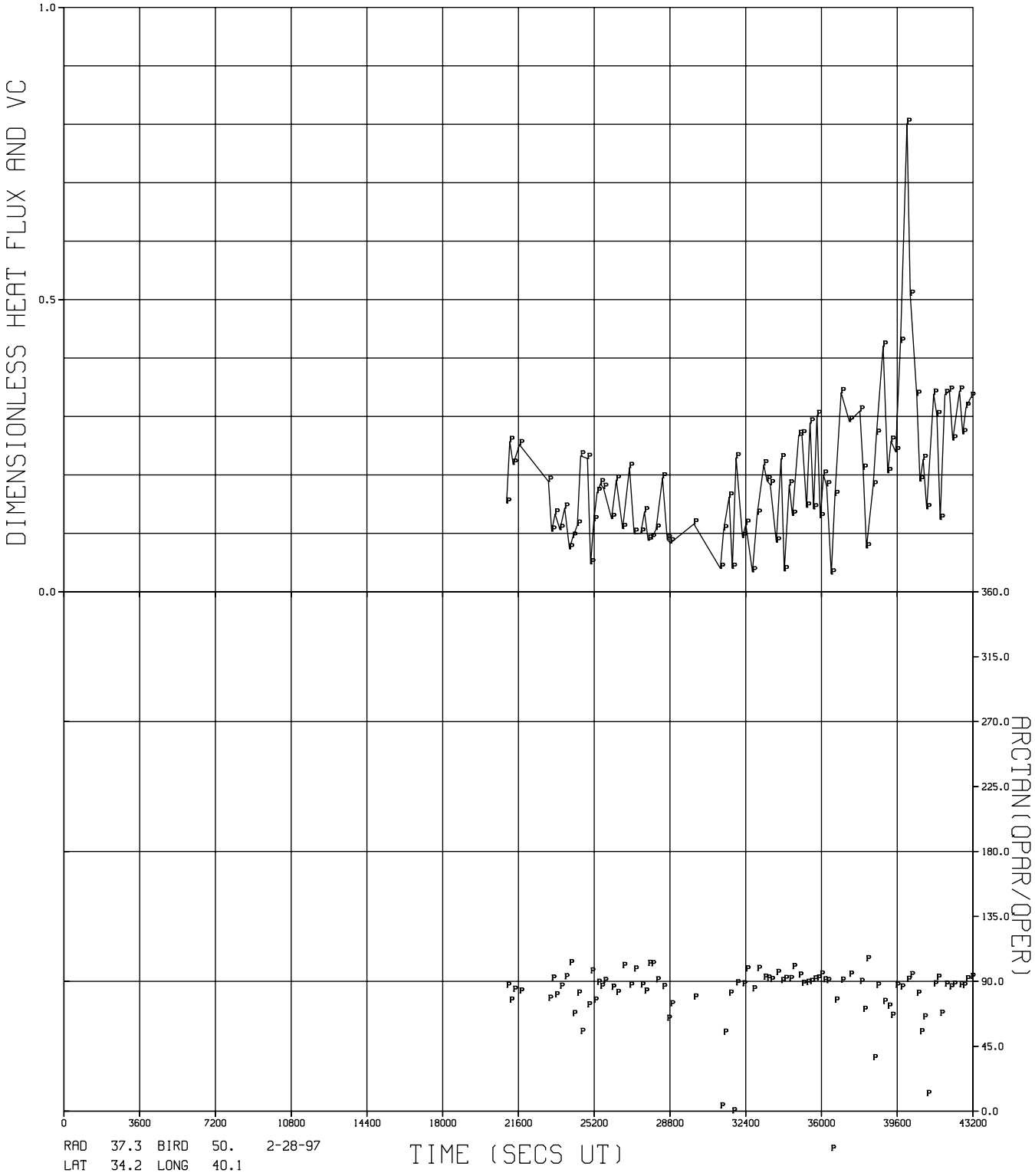

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

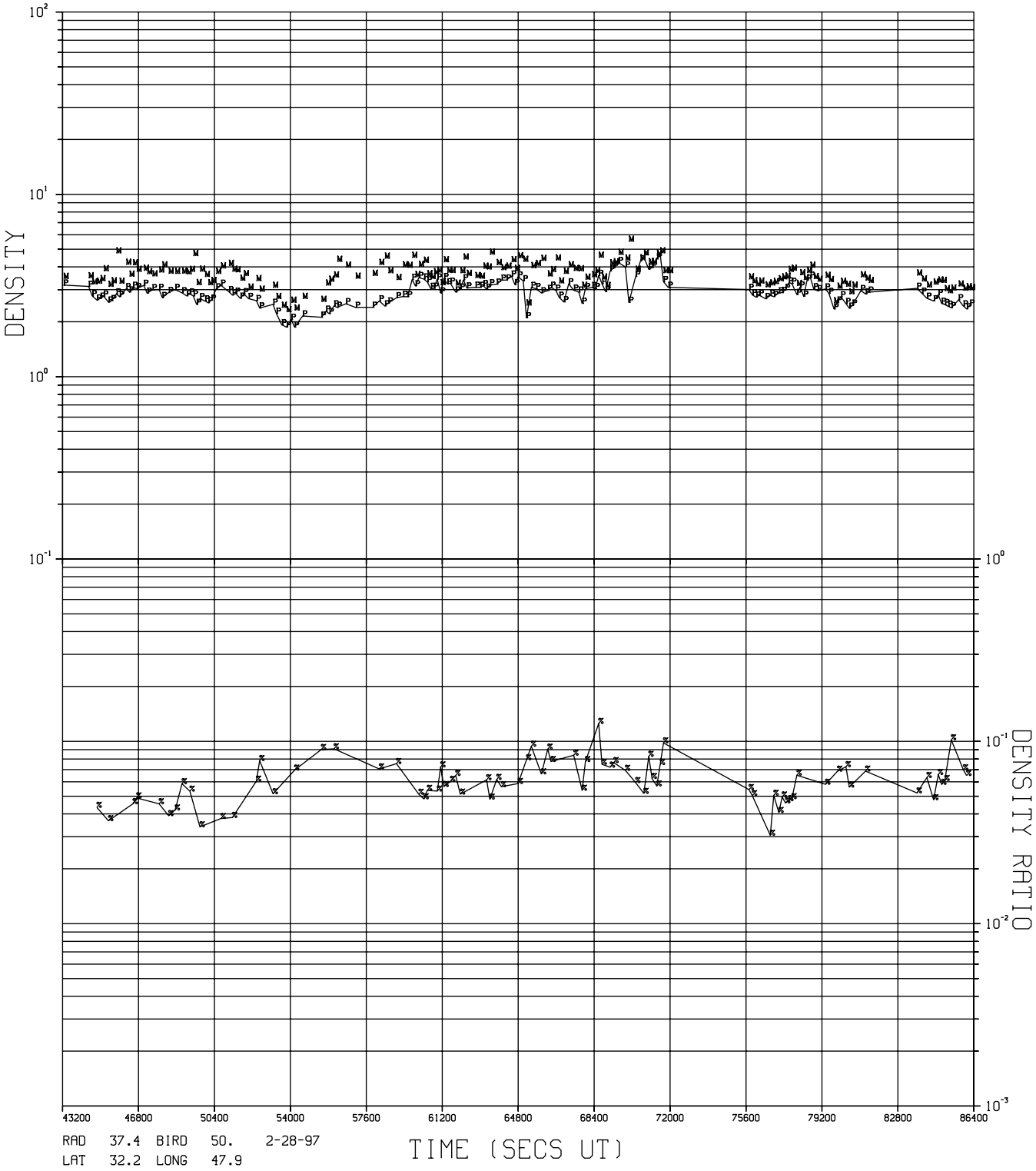

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

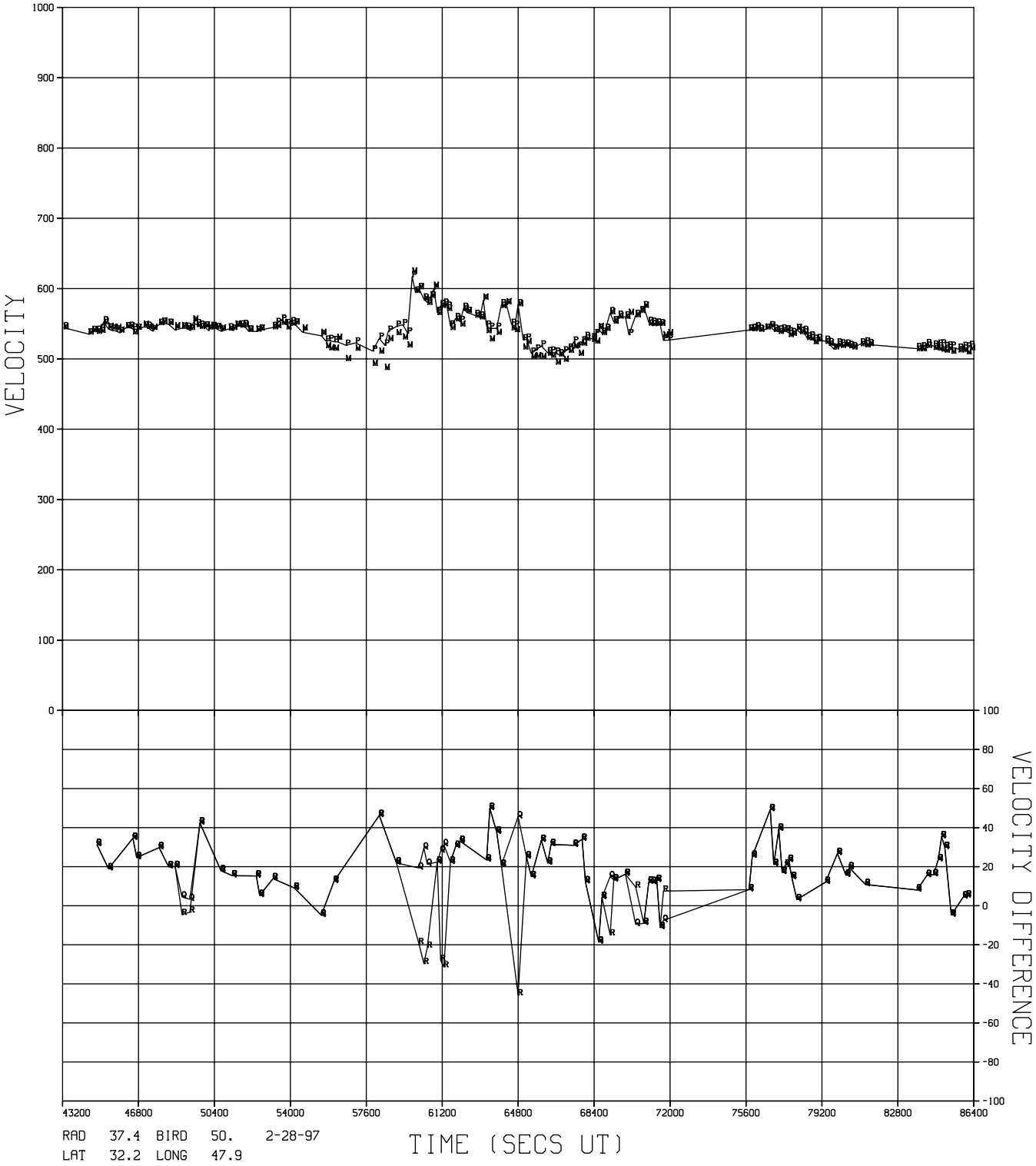

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

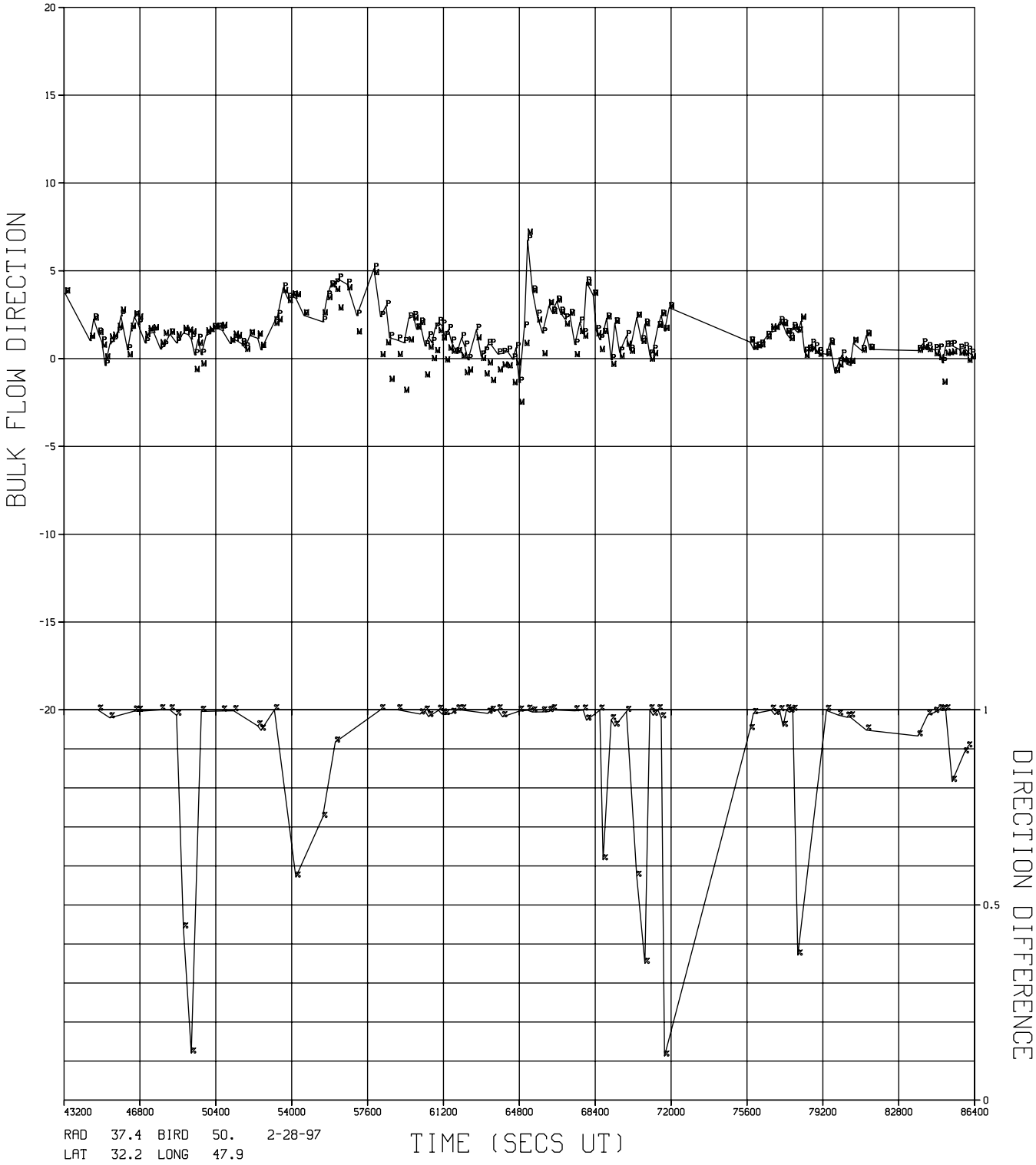

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

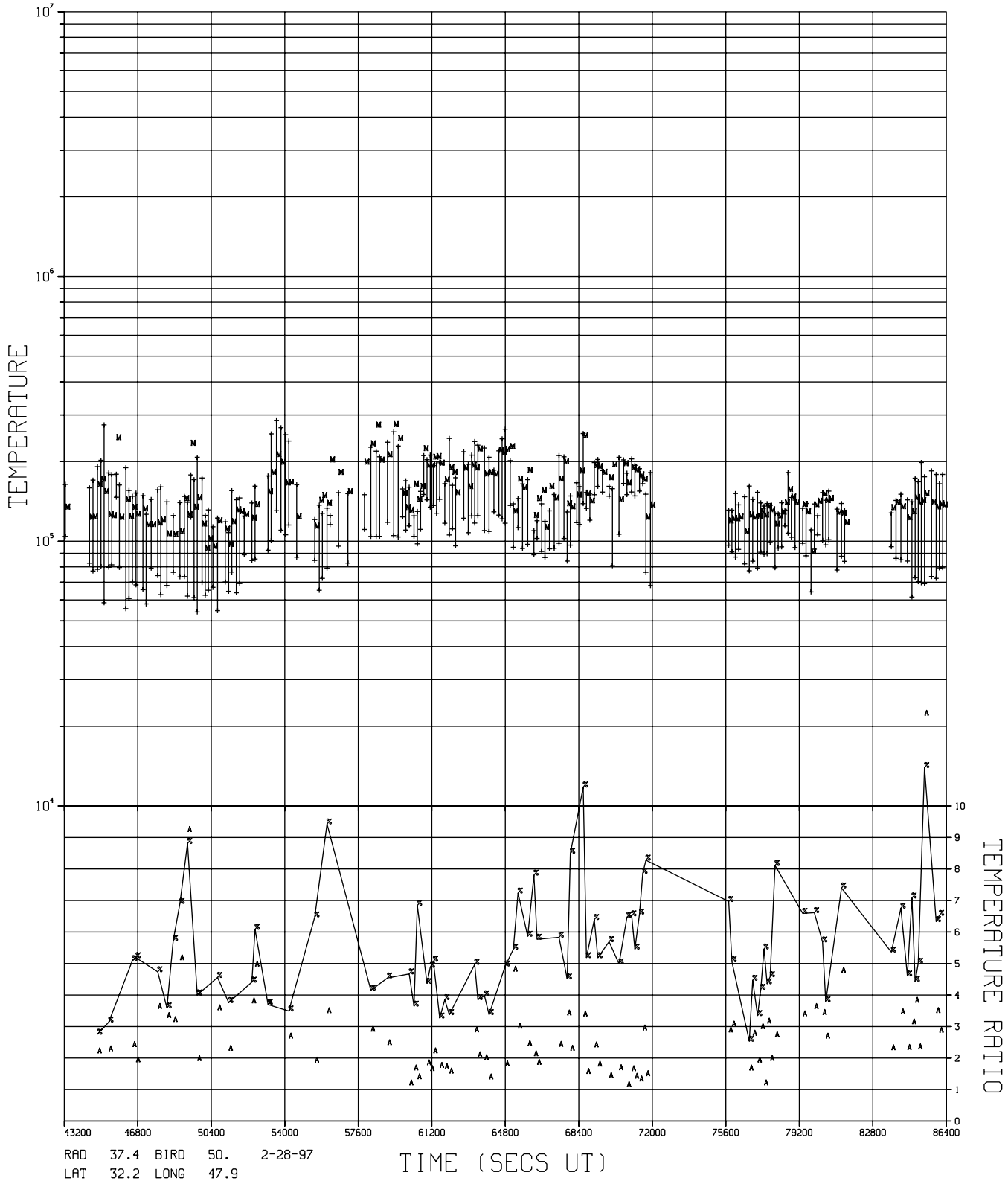

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

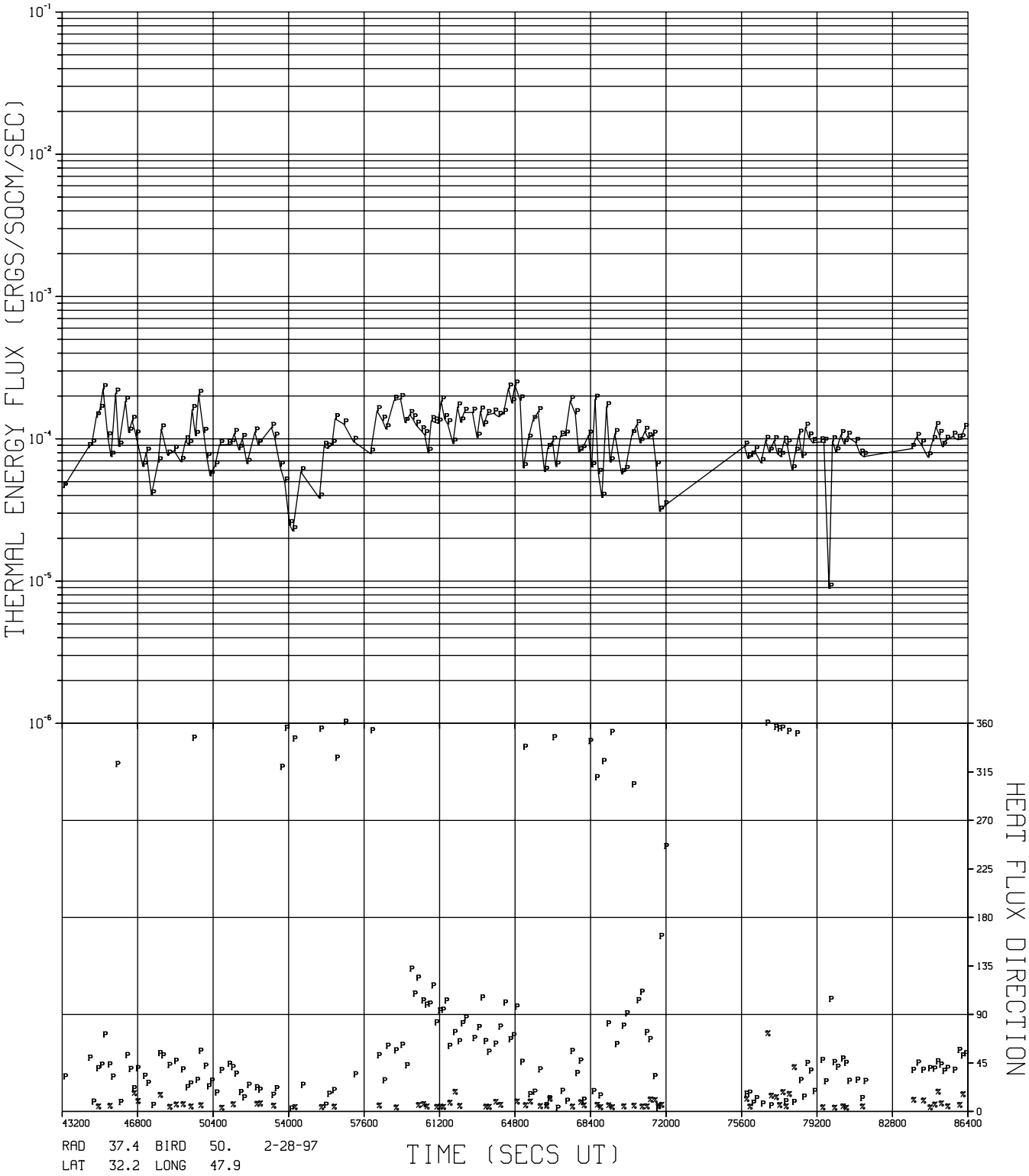

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 37.3 BIRD 50. 2-28-97
LAT 34.2 LONG 40.1

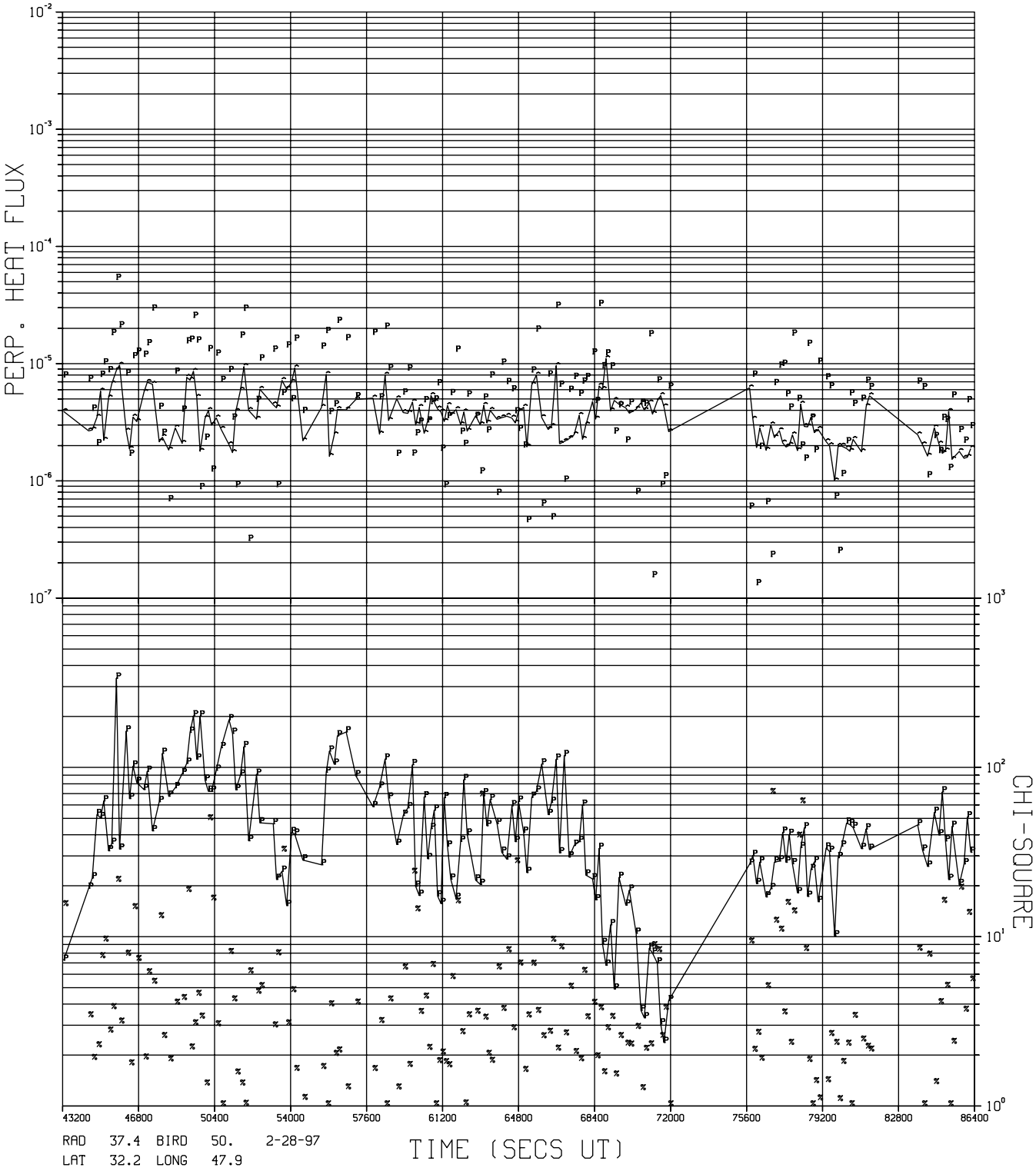

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

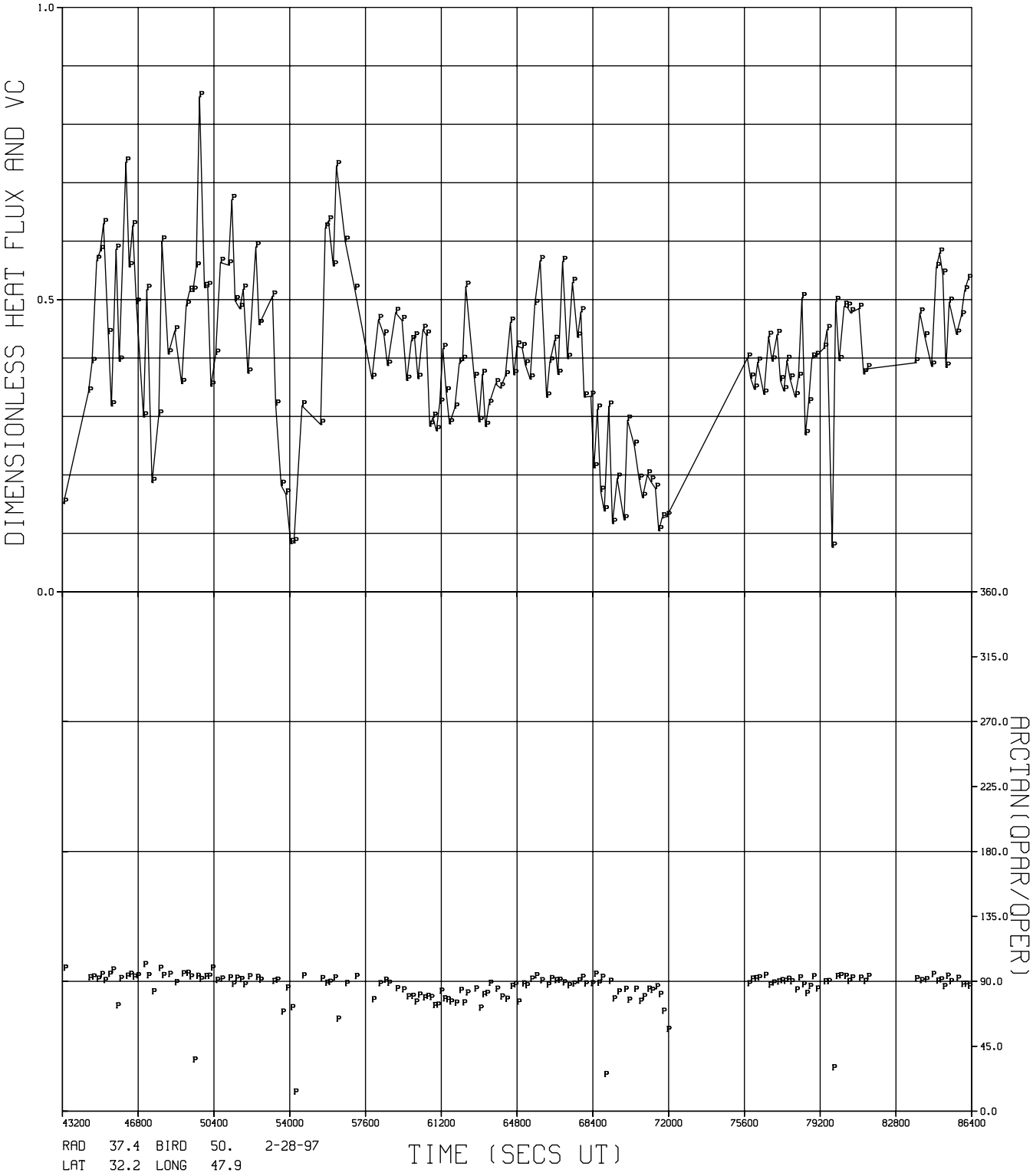

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9


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 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

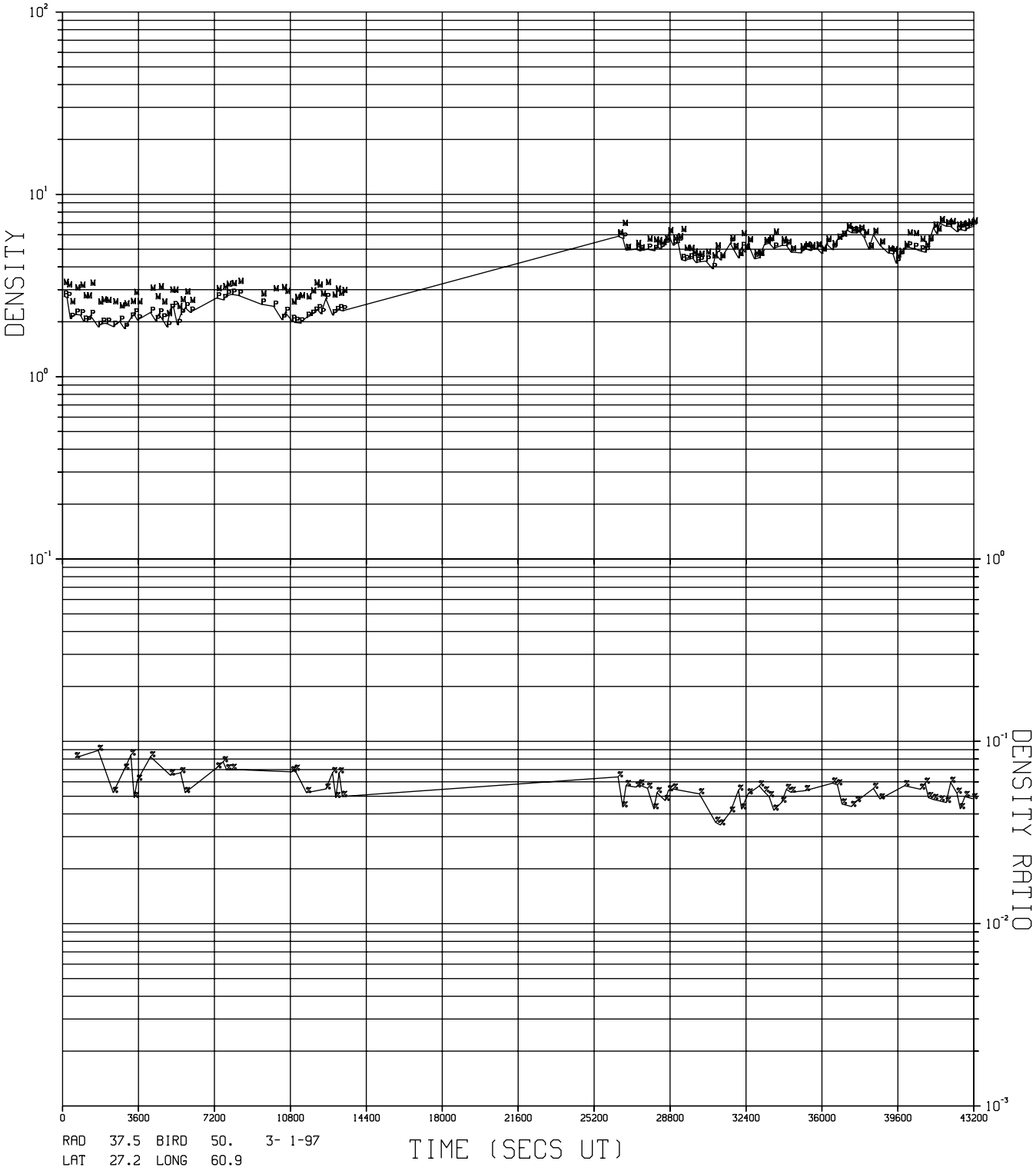

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

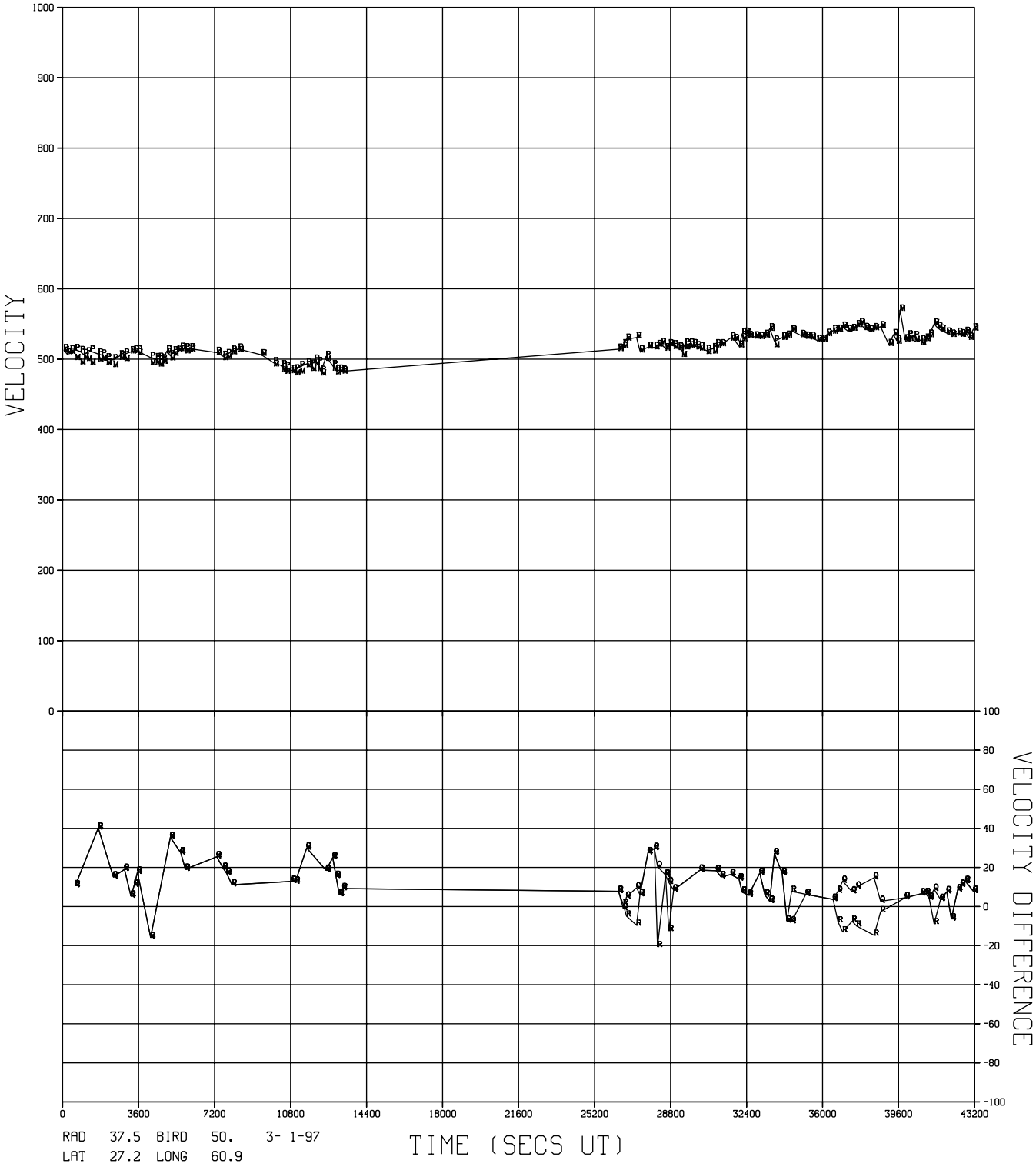

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

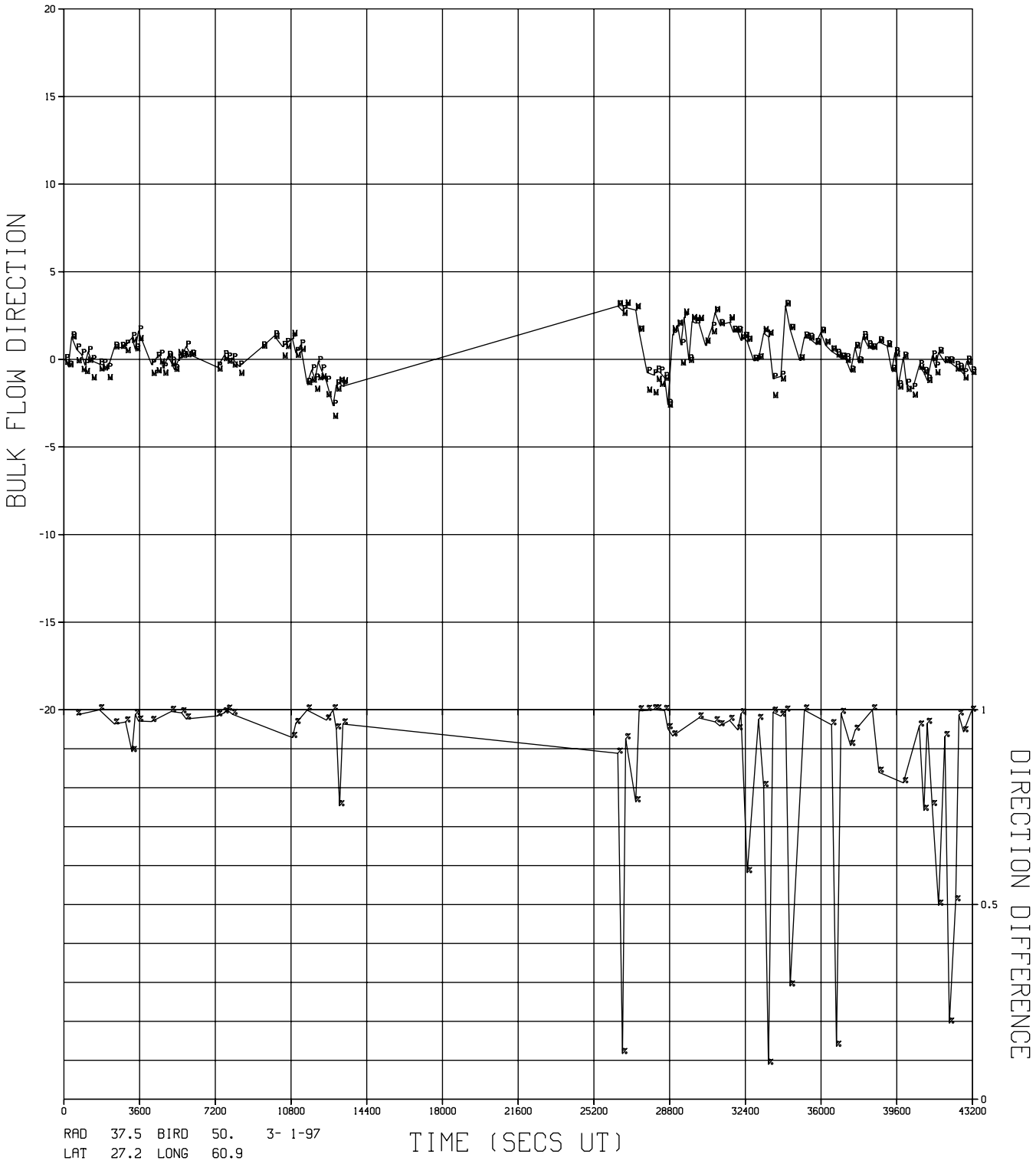

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

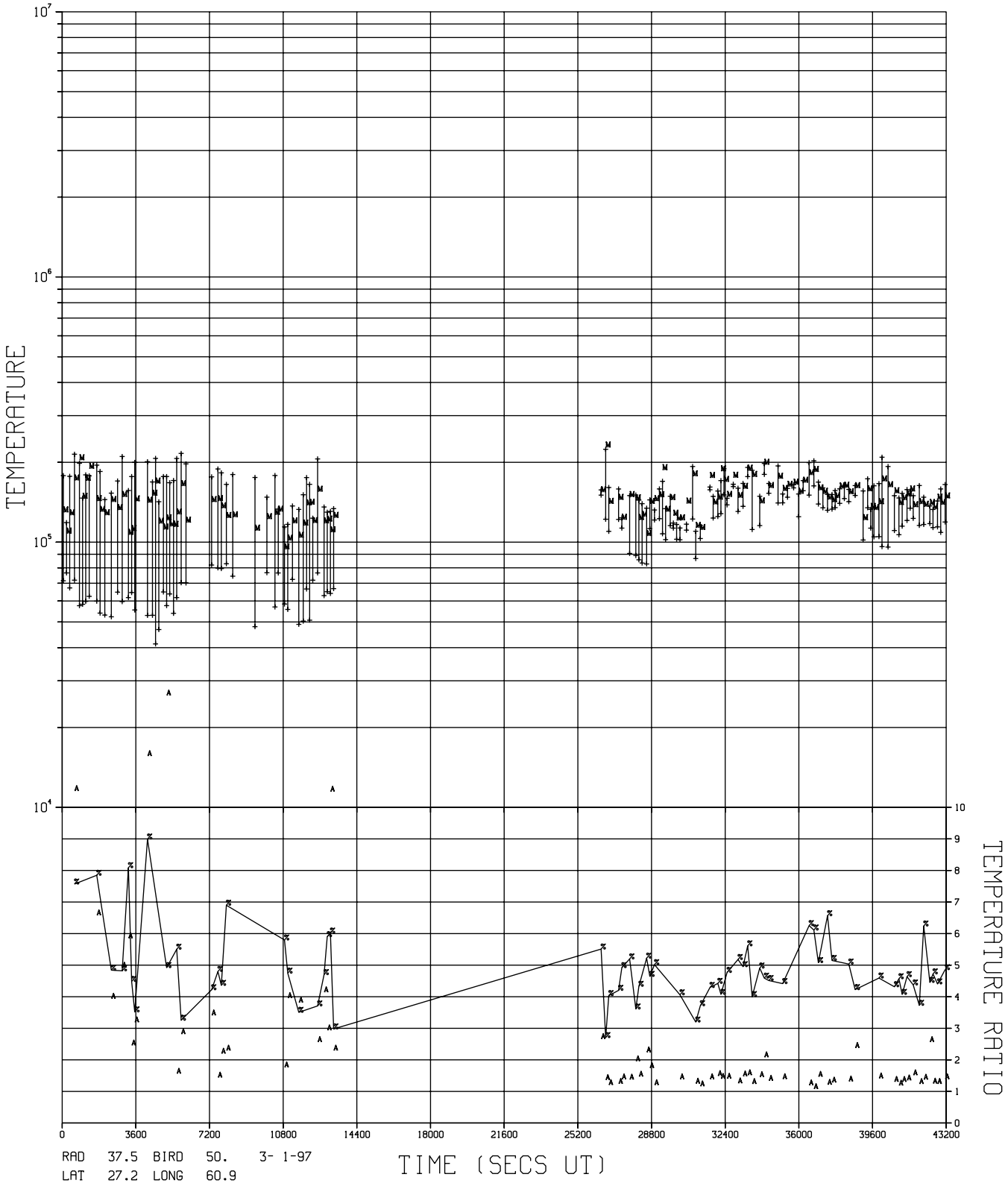


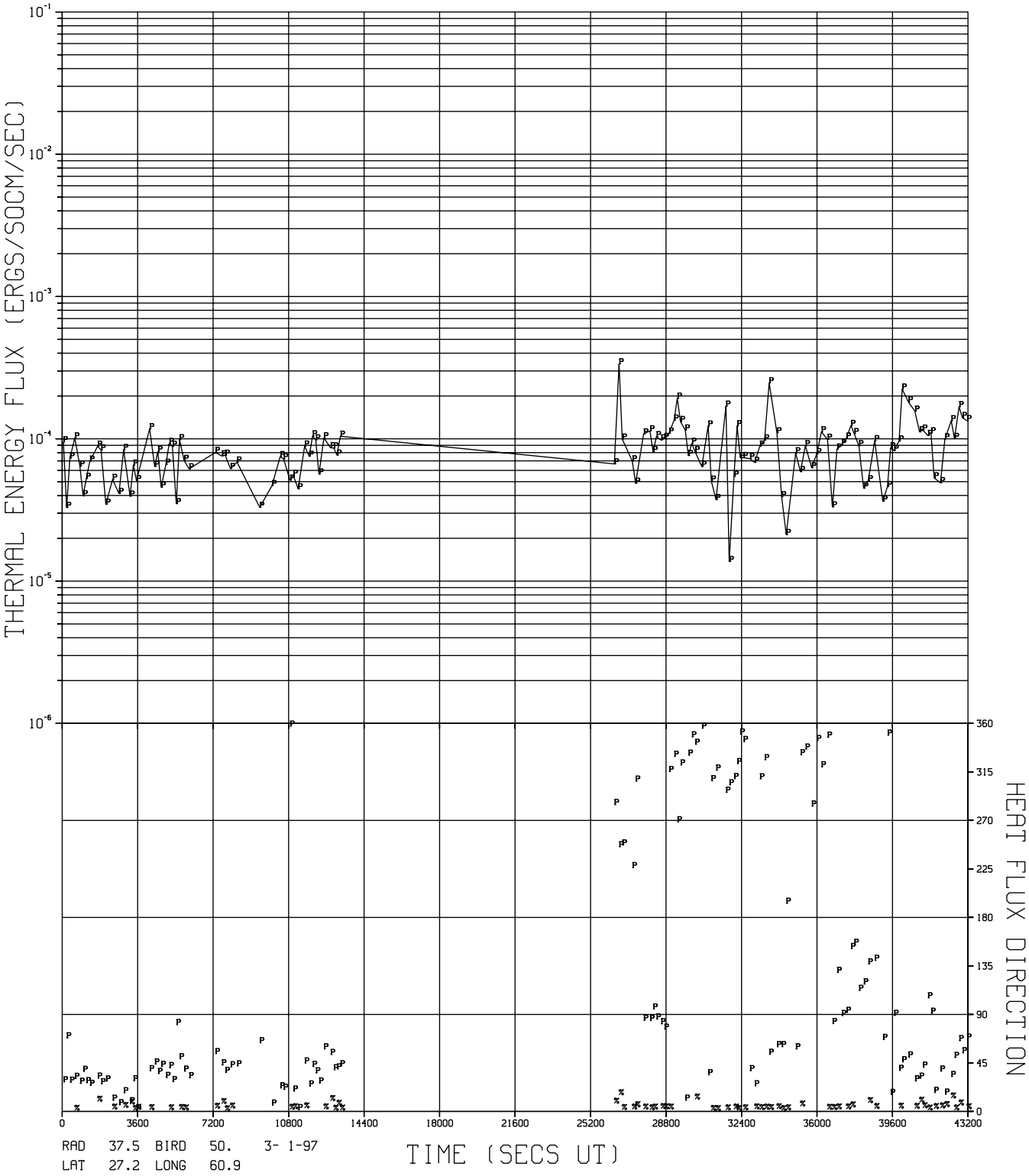
RAD 37.4 BIRD 50. 2-28-97
LAT 32.2 LONG 47.9

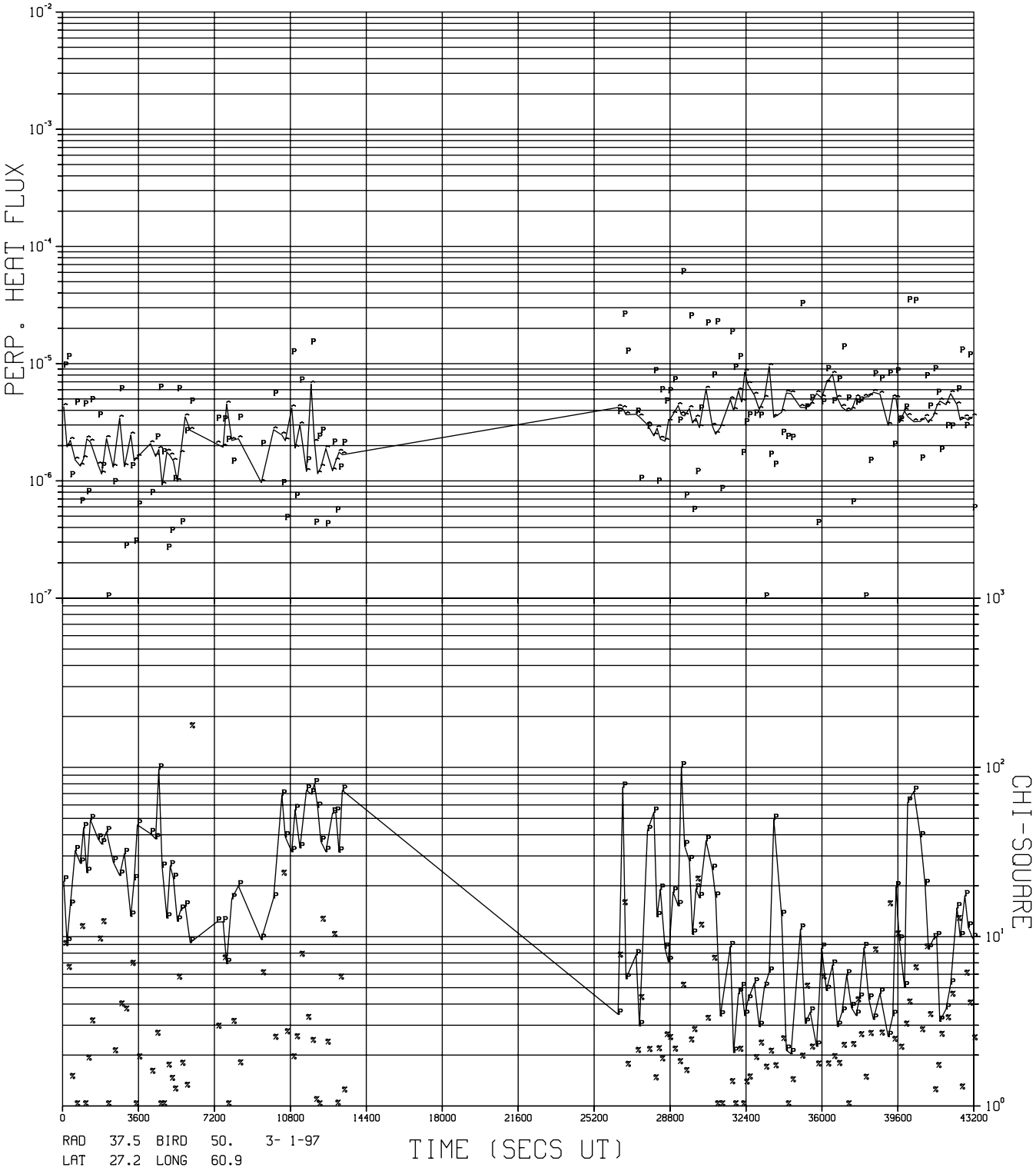

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

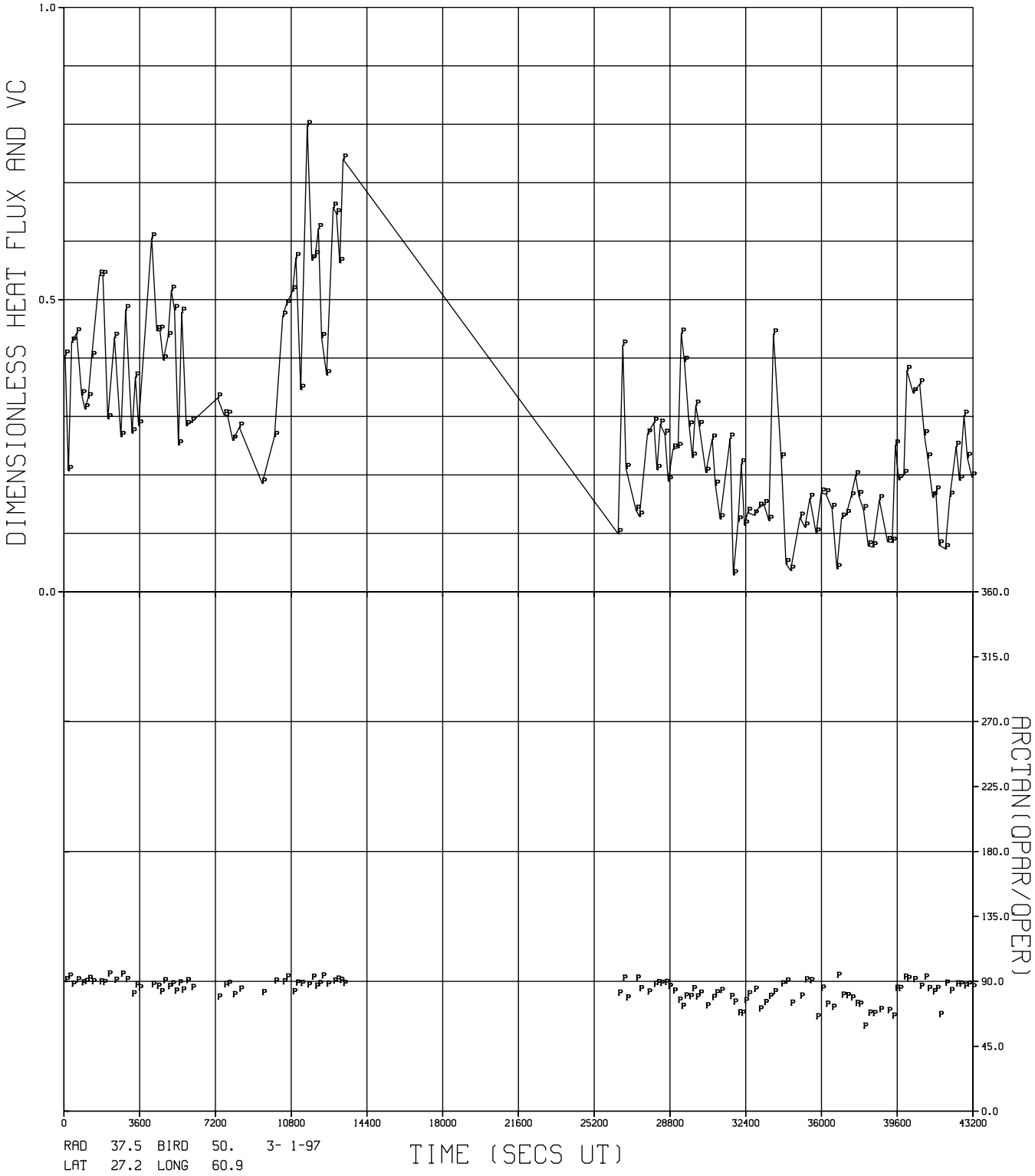

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

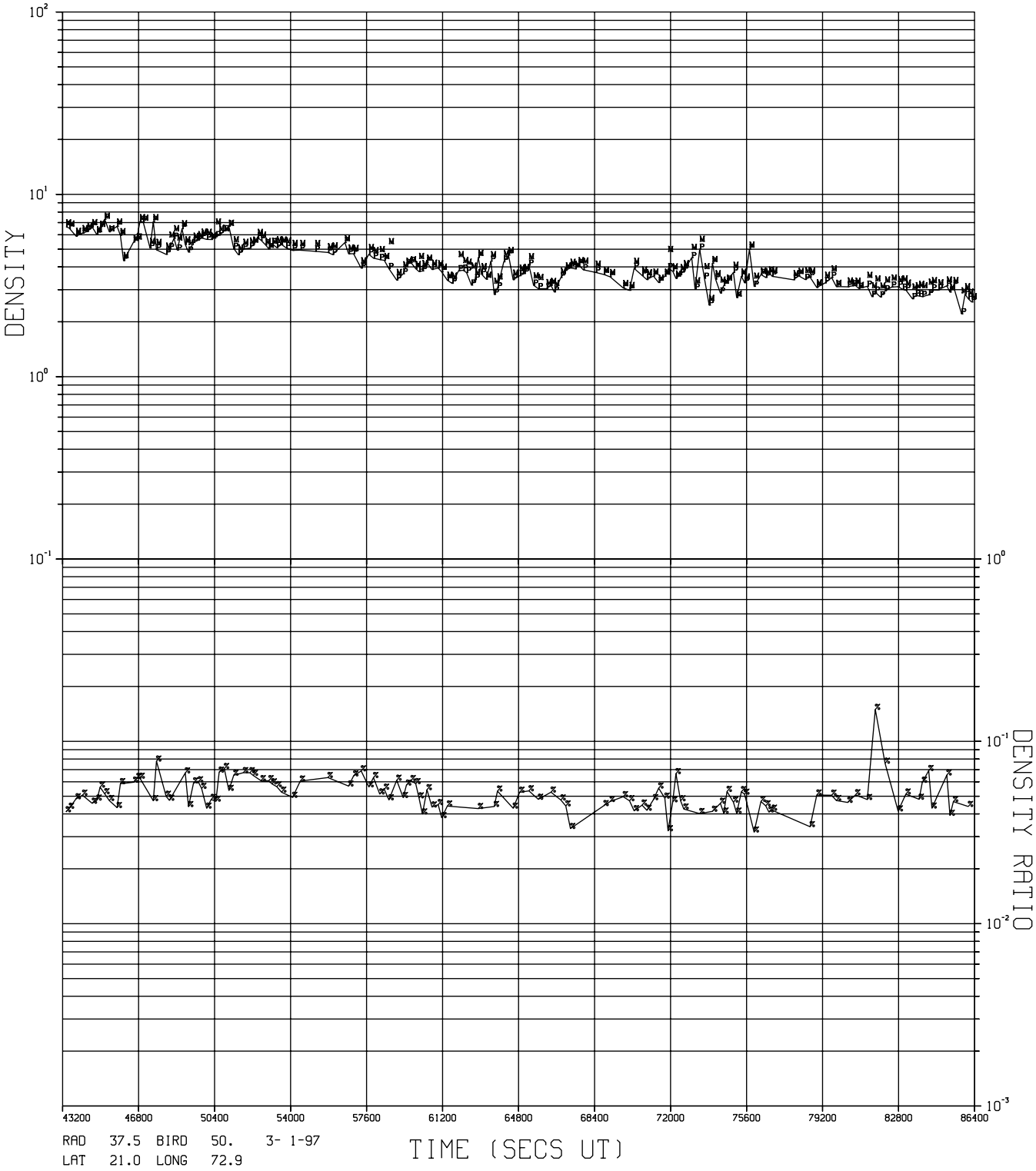

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

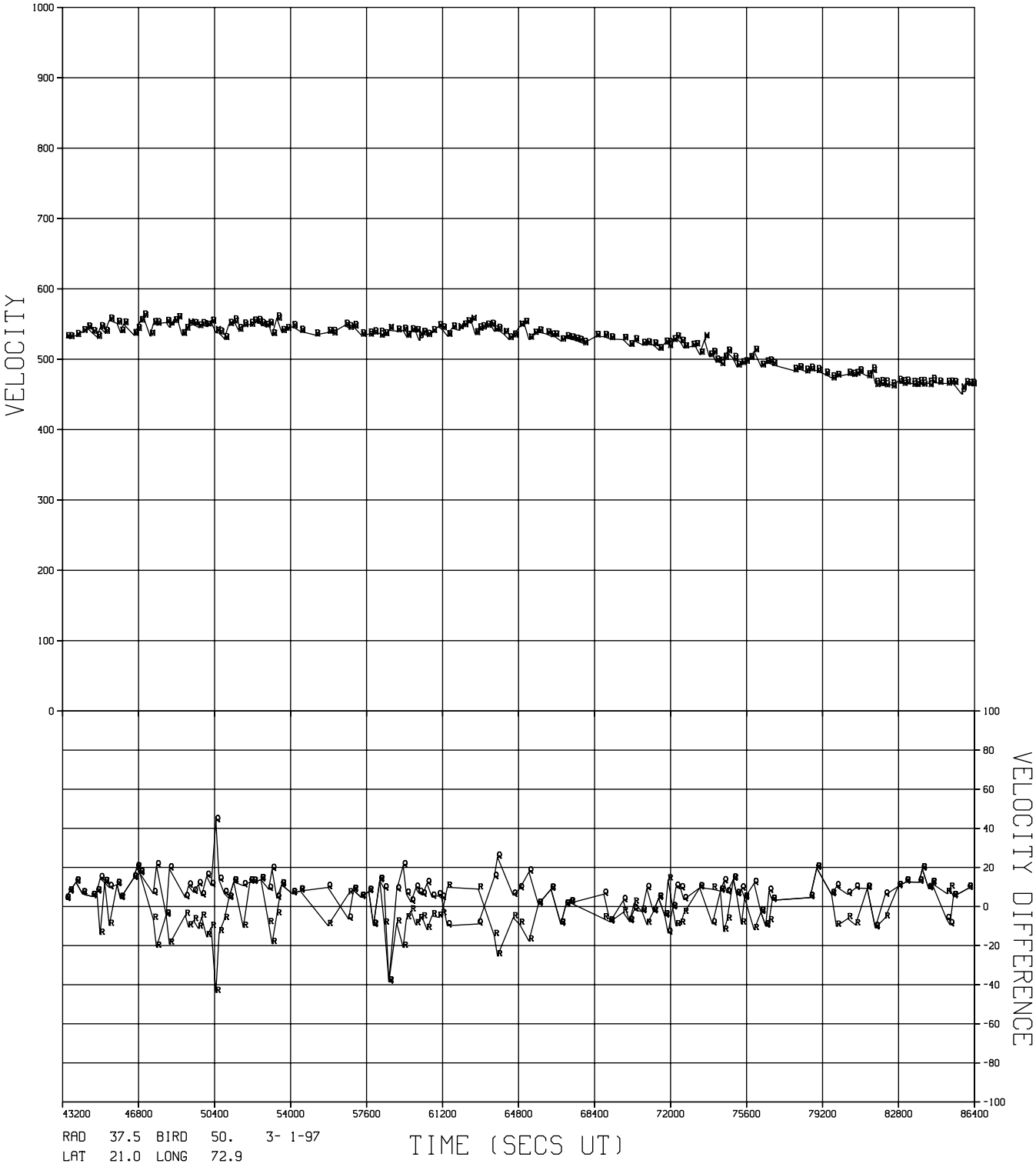

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

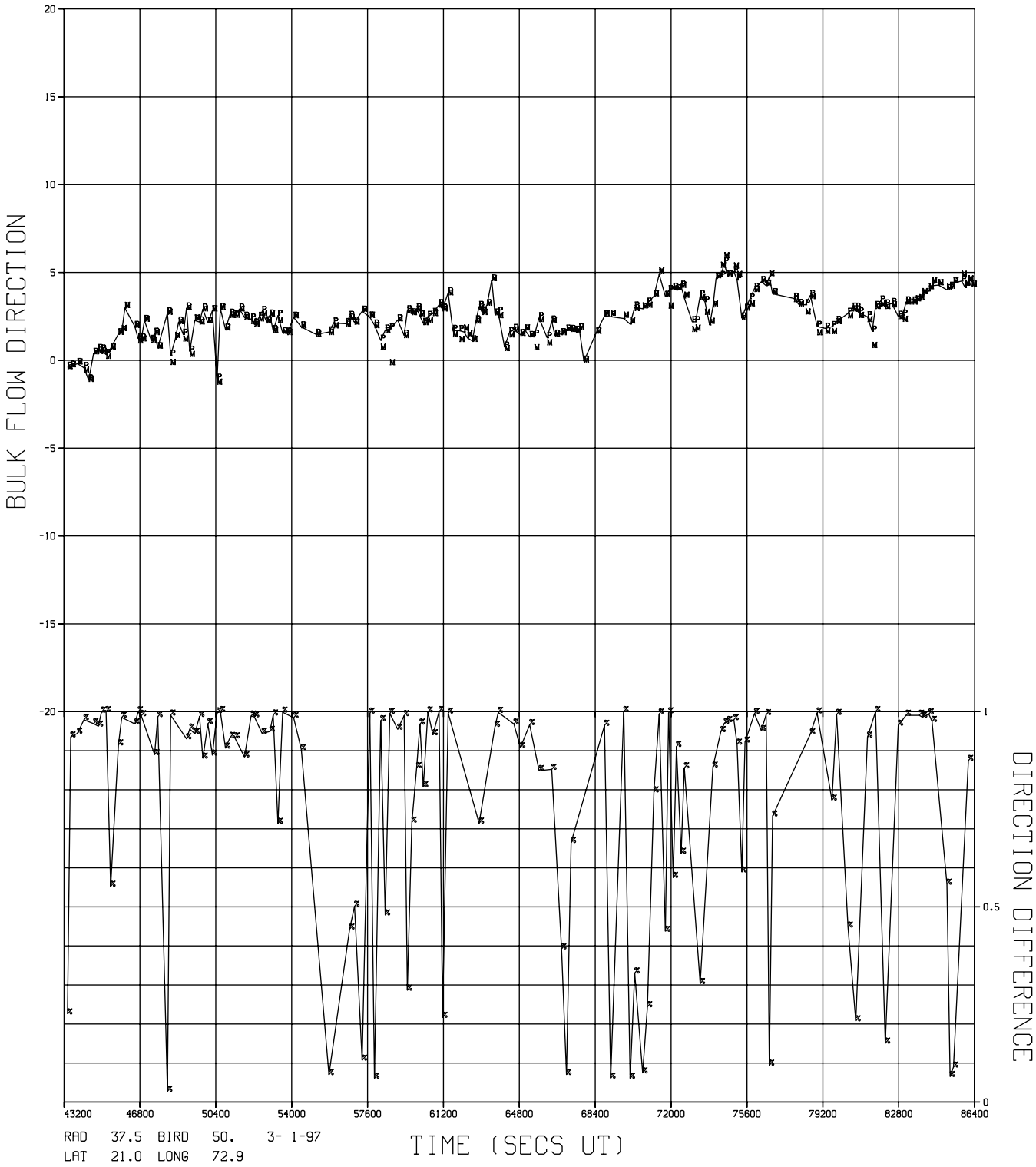

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

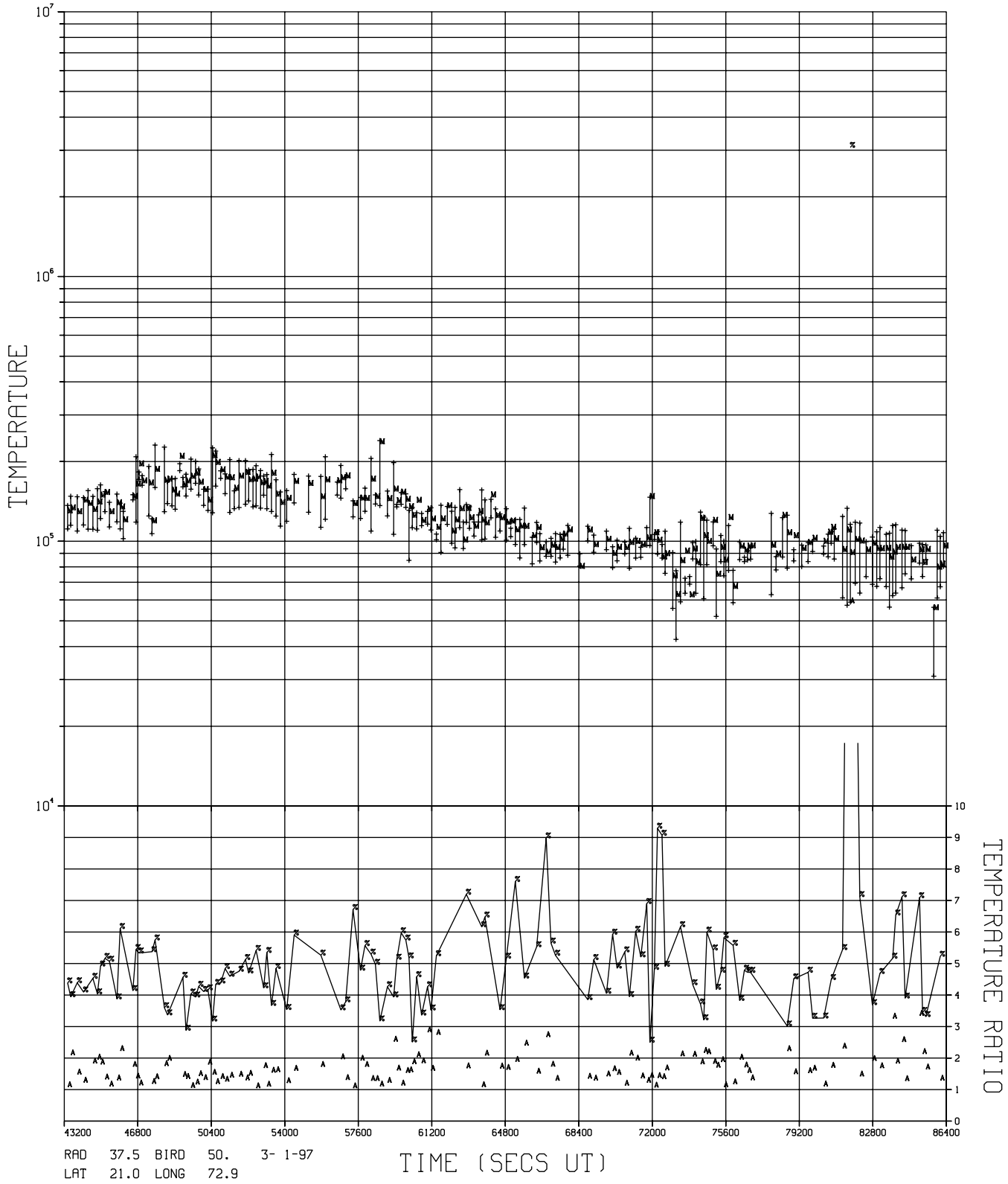

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

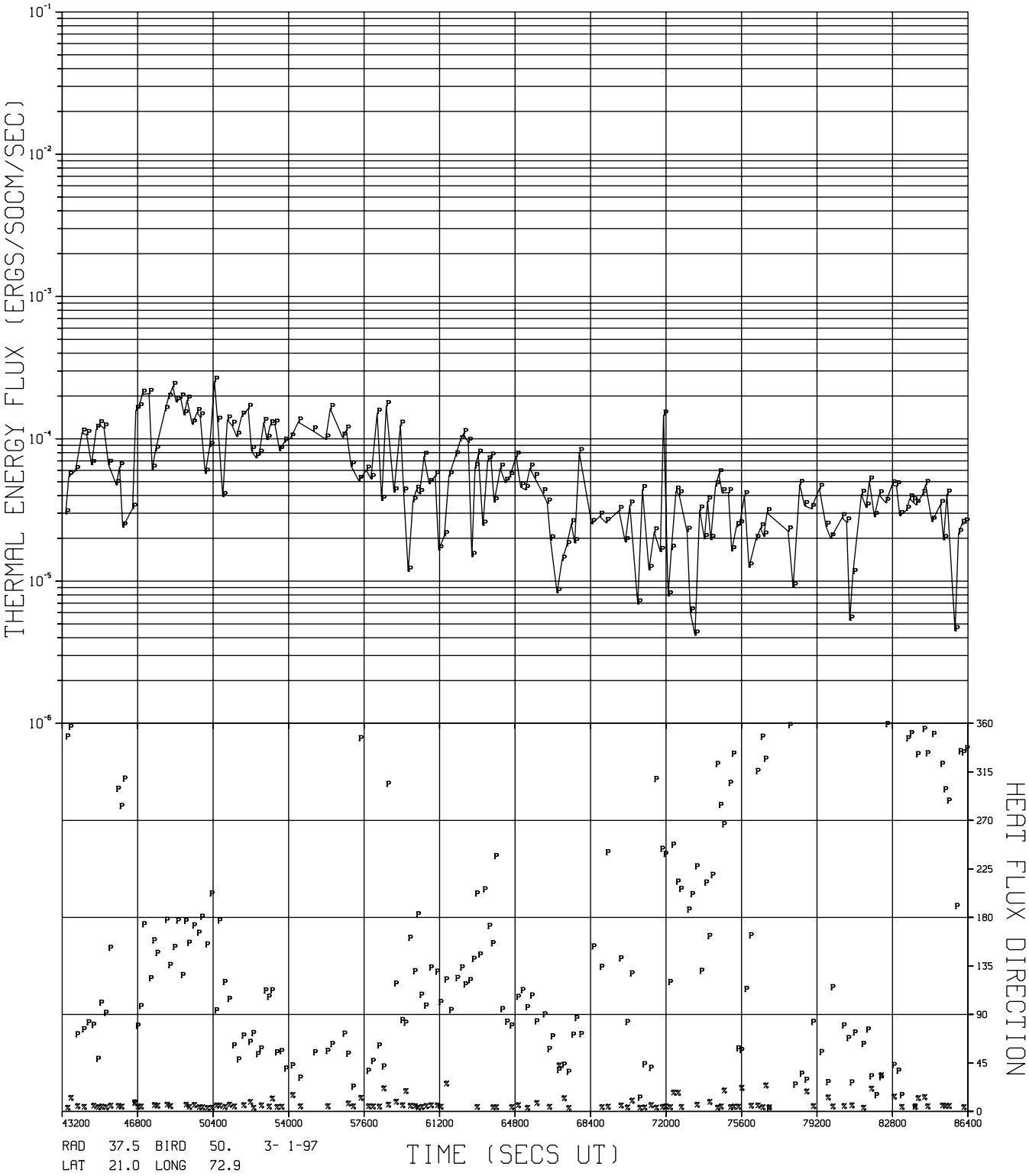

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 27.2 LONG 60.9

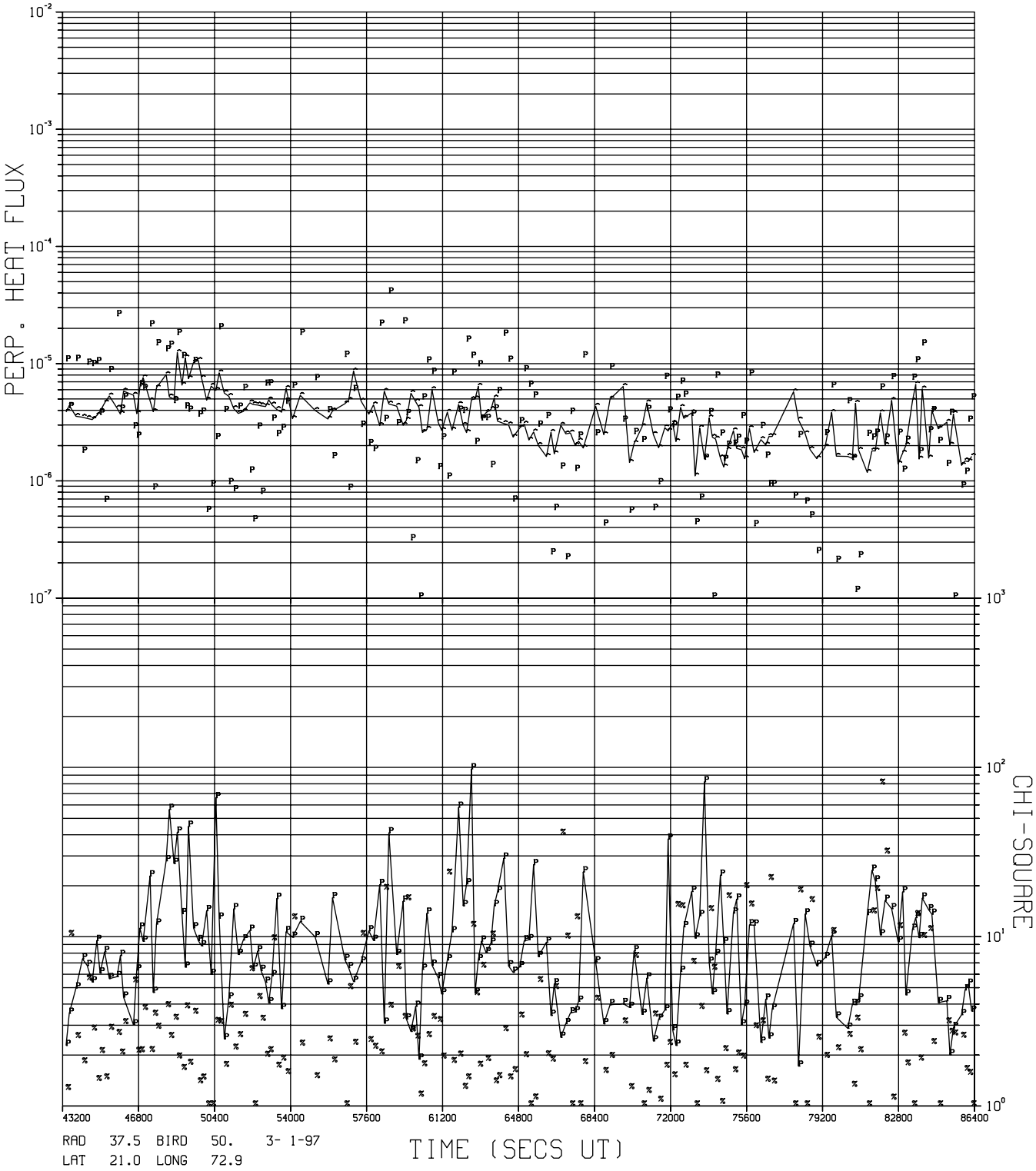

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

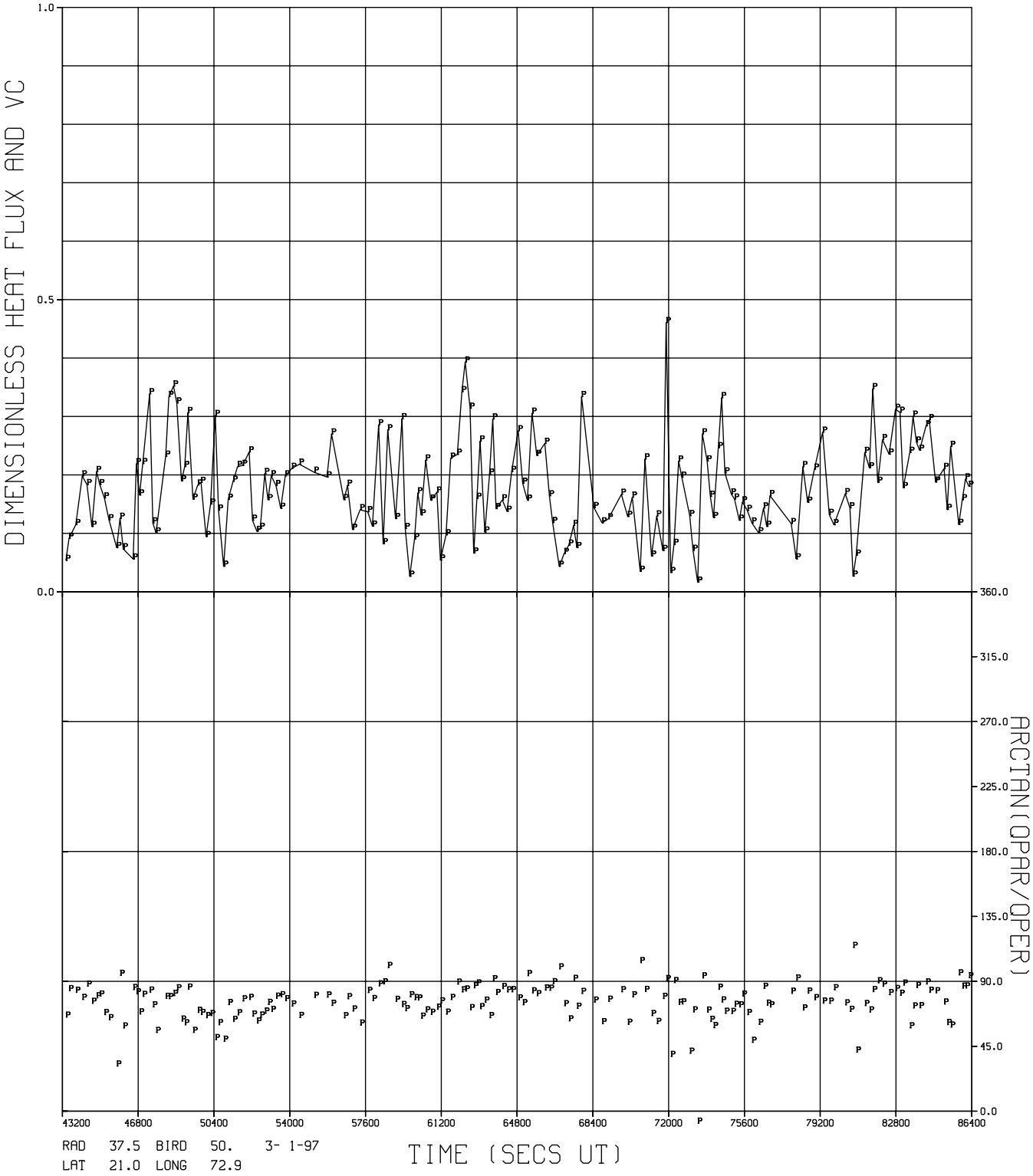

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9


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 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

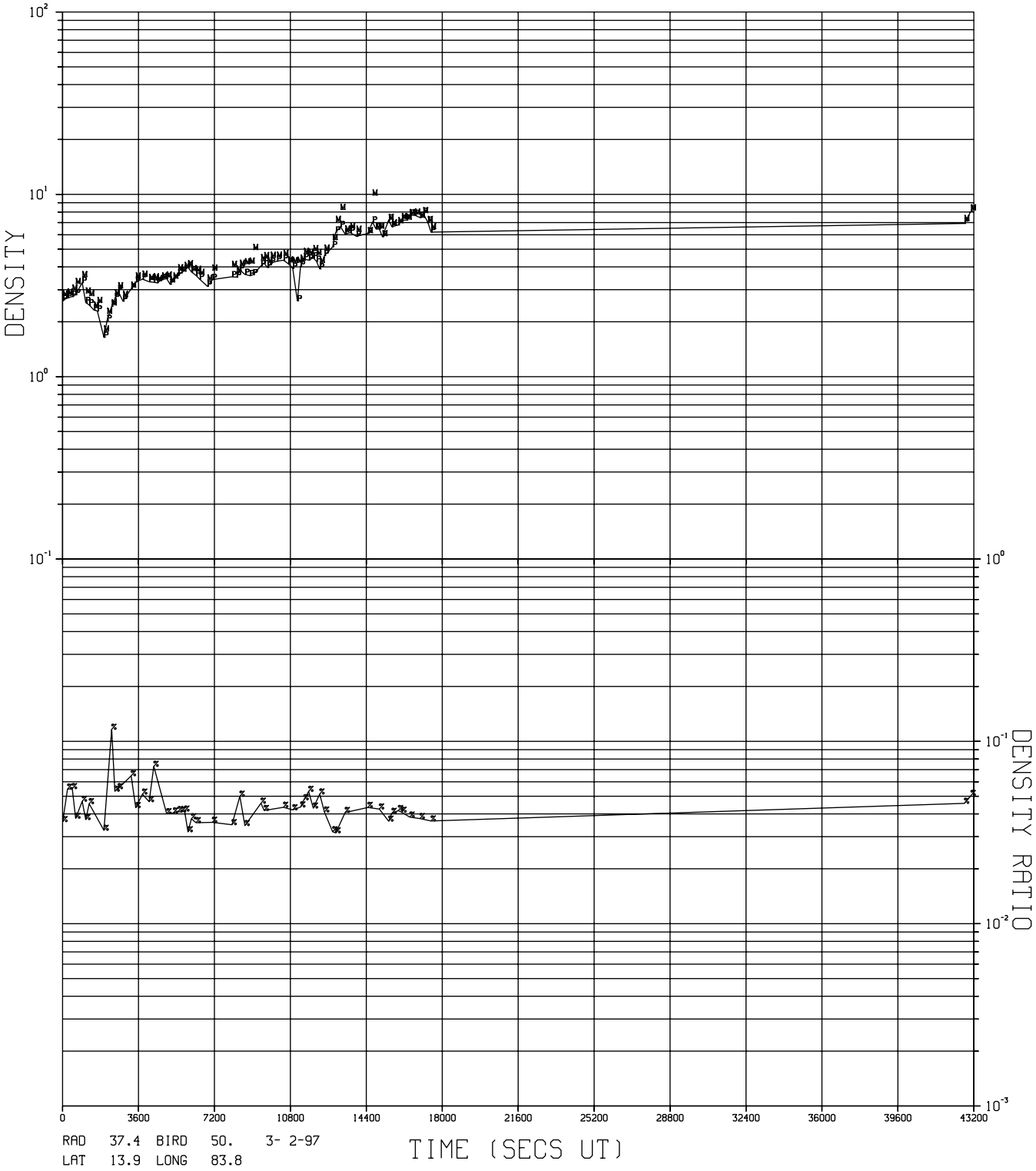

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

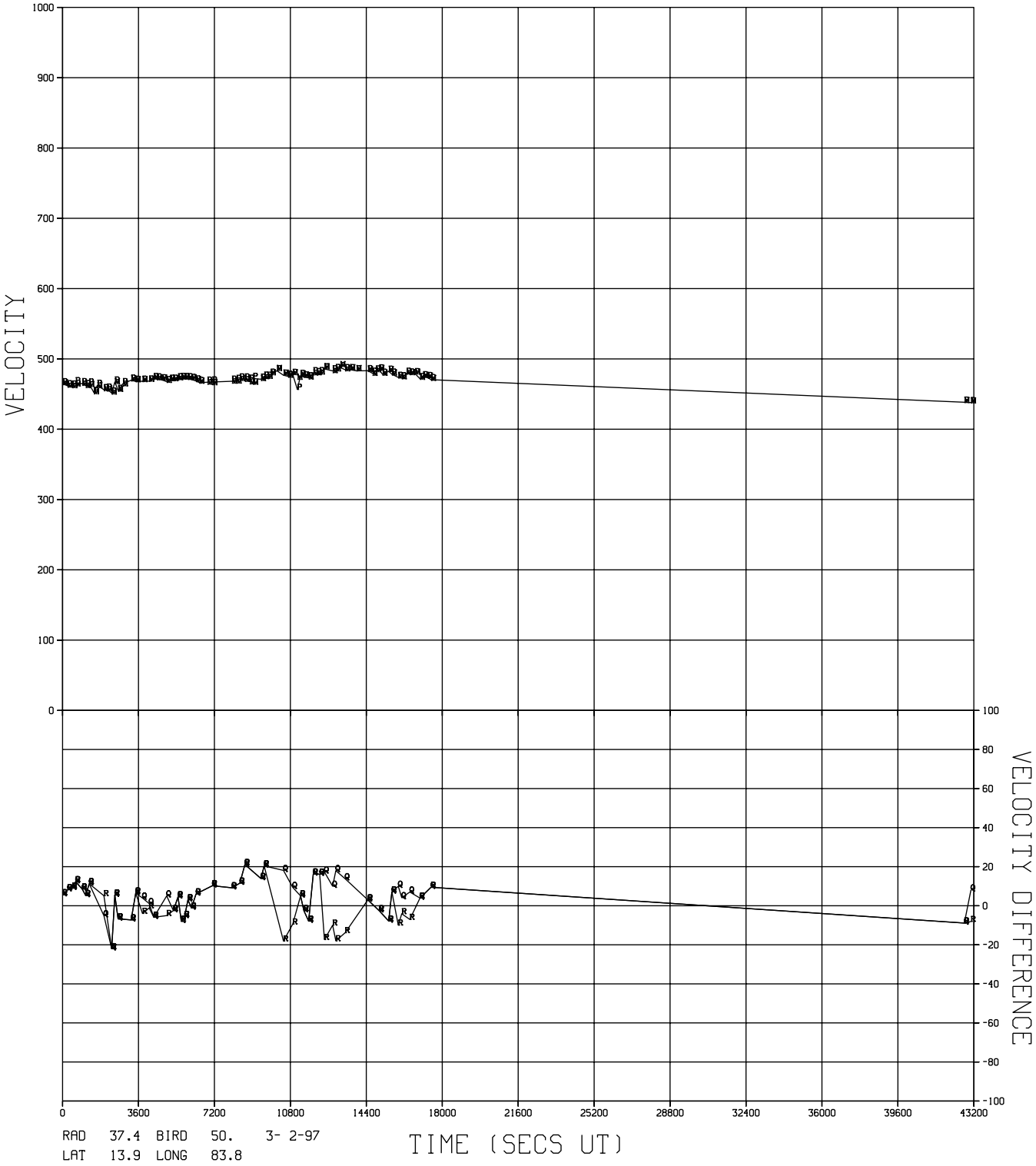

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

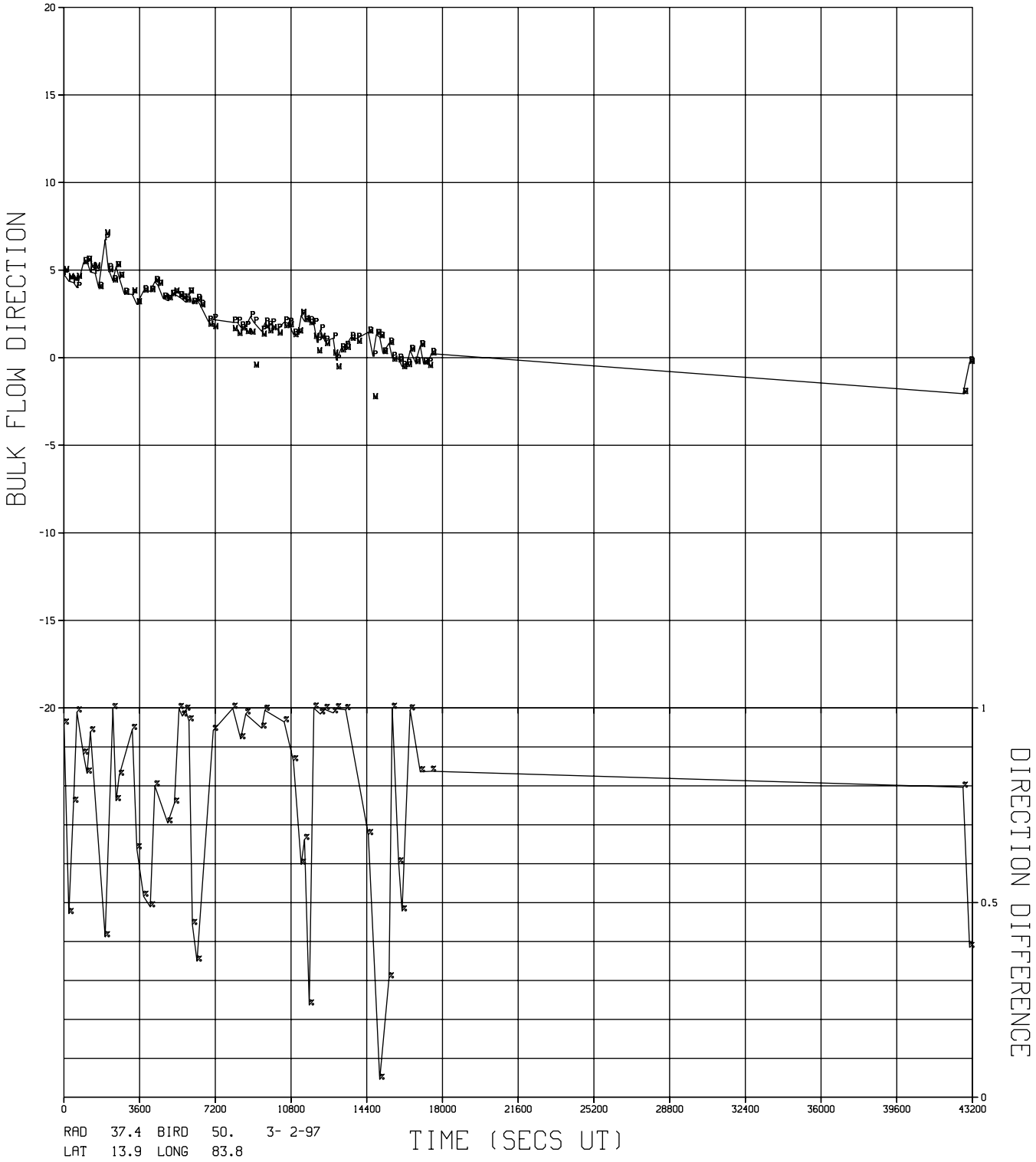

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

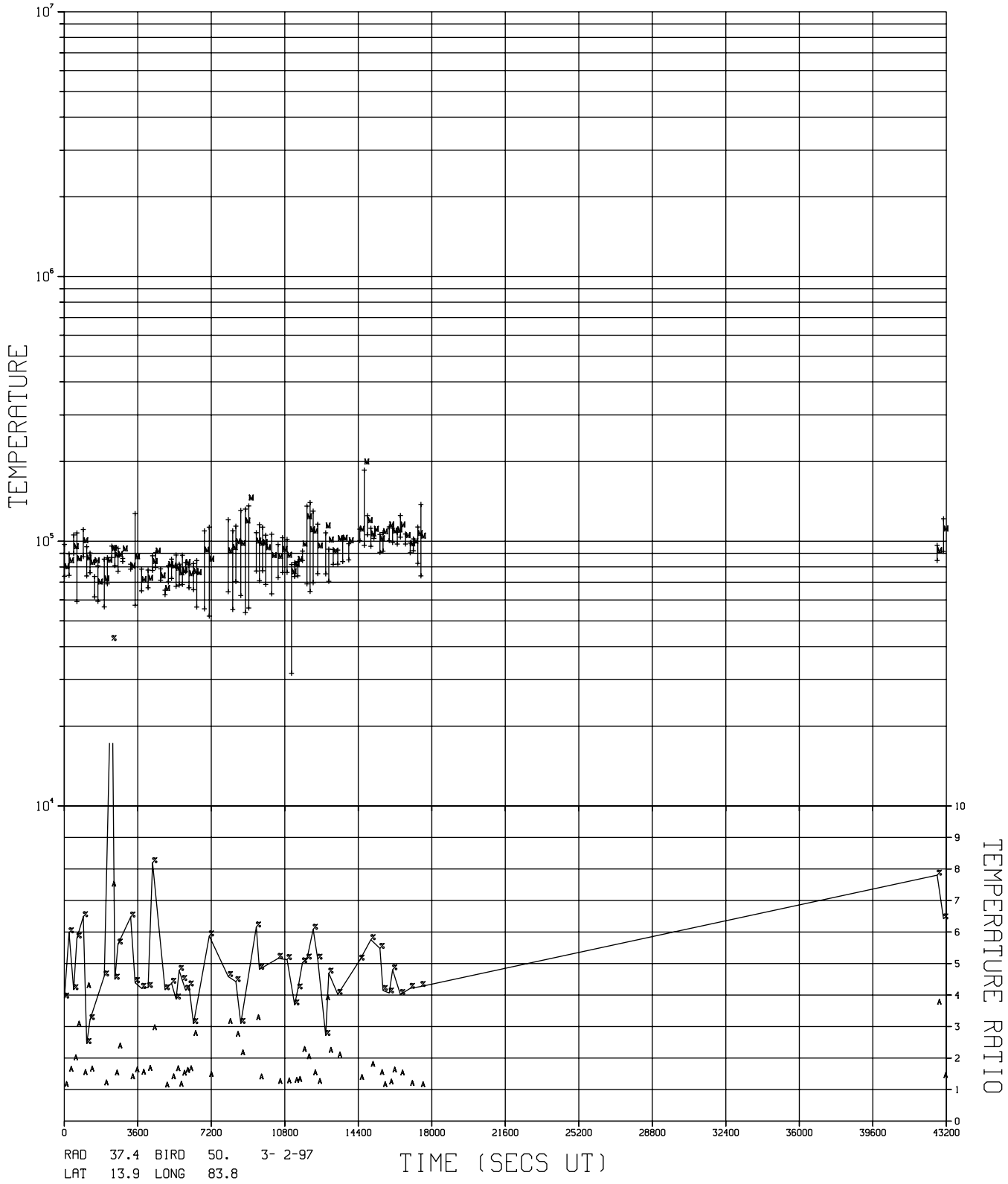


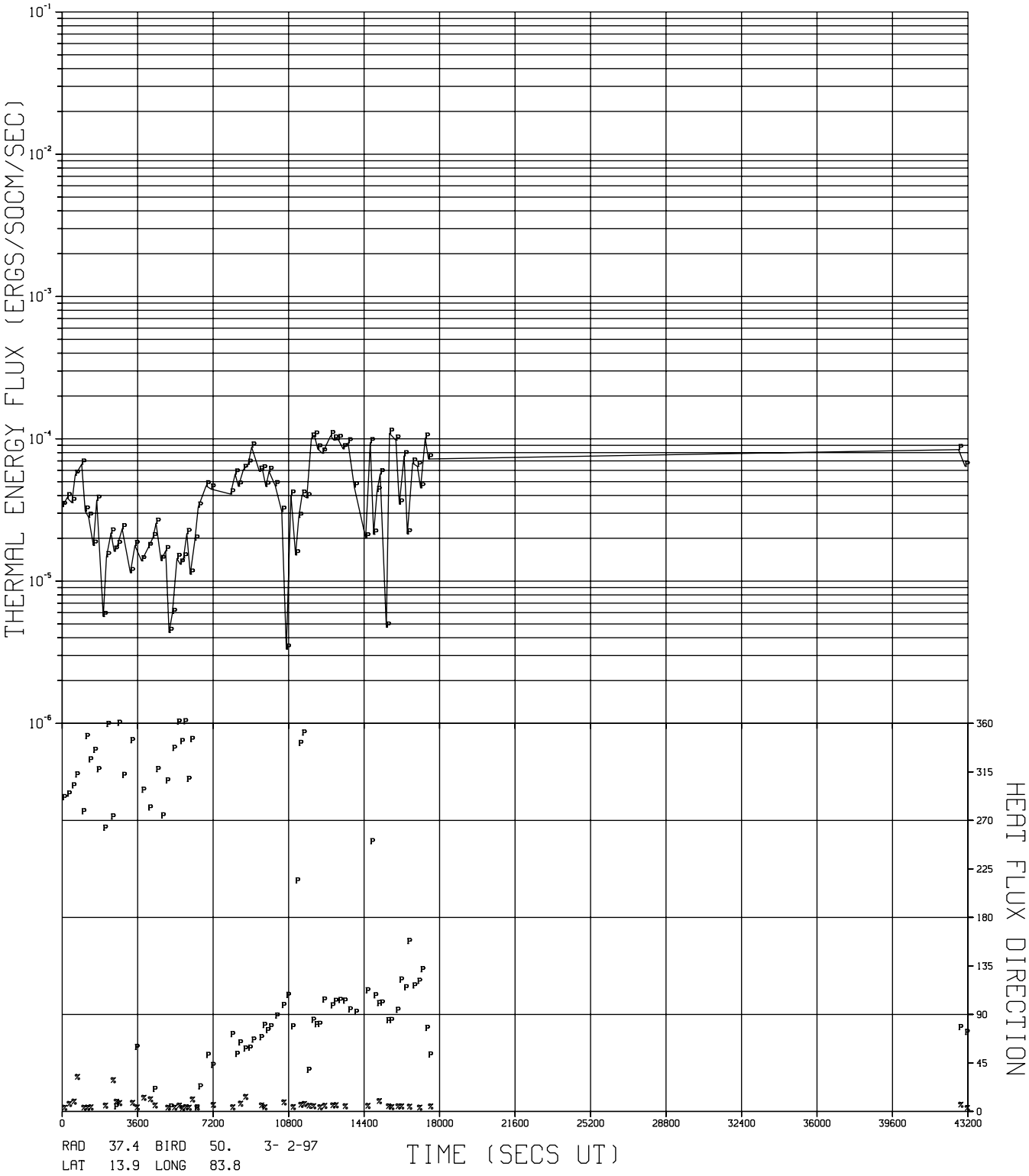
RAD 37.5 BIRD 50. 3- 1-97
LAT 21.0 LONG 72.9

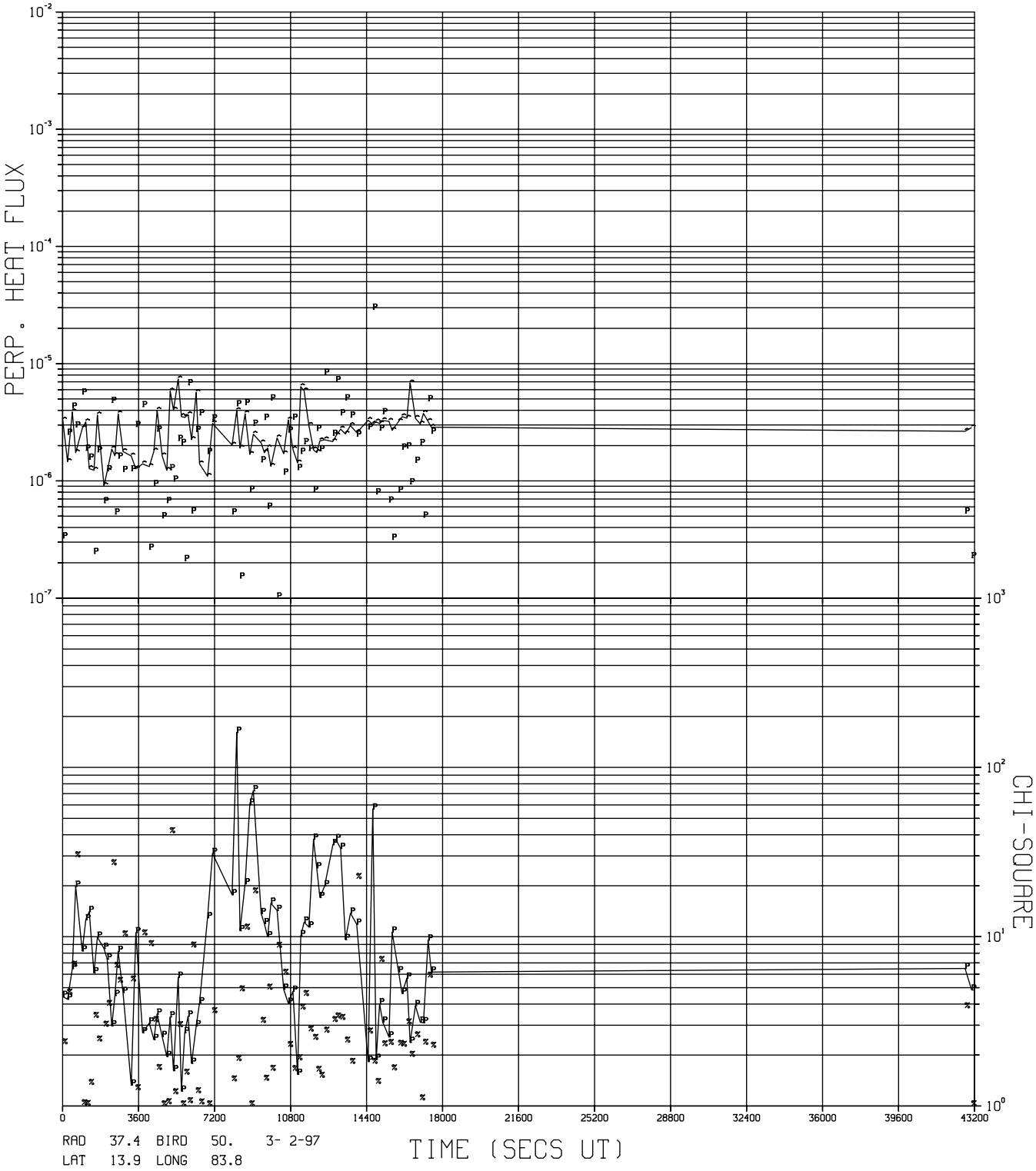

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

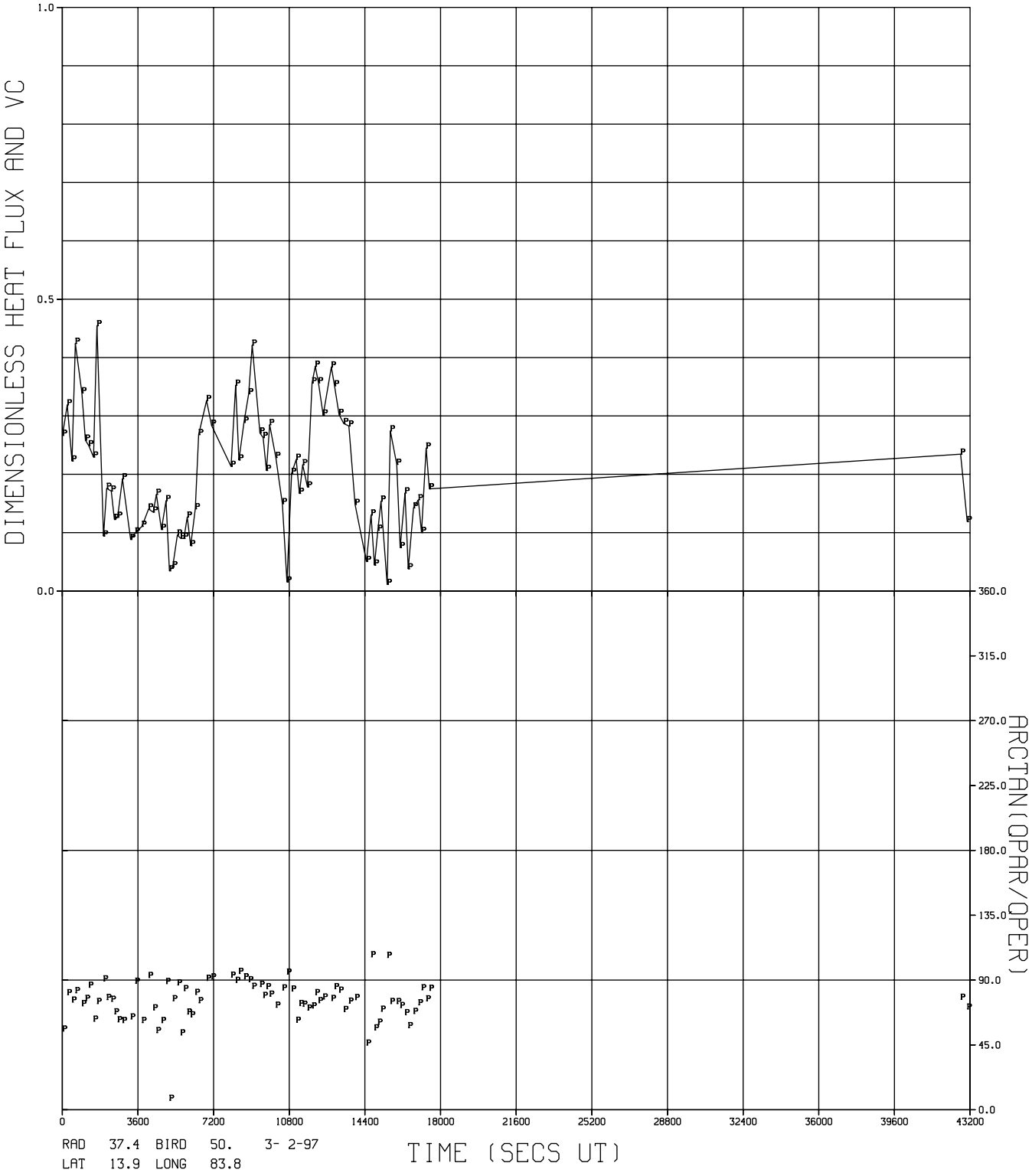

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

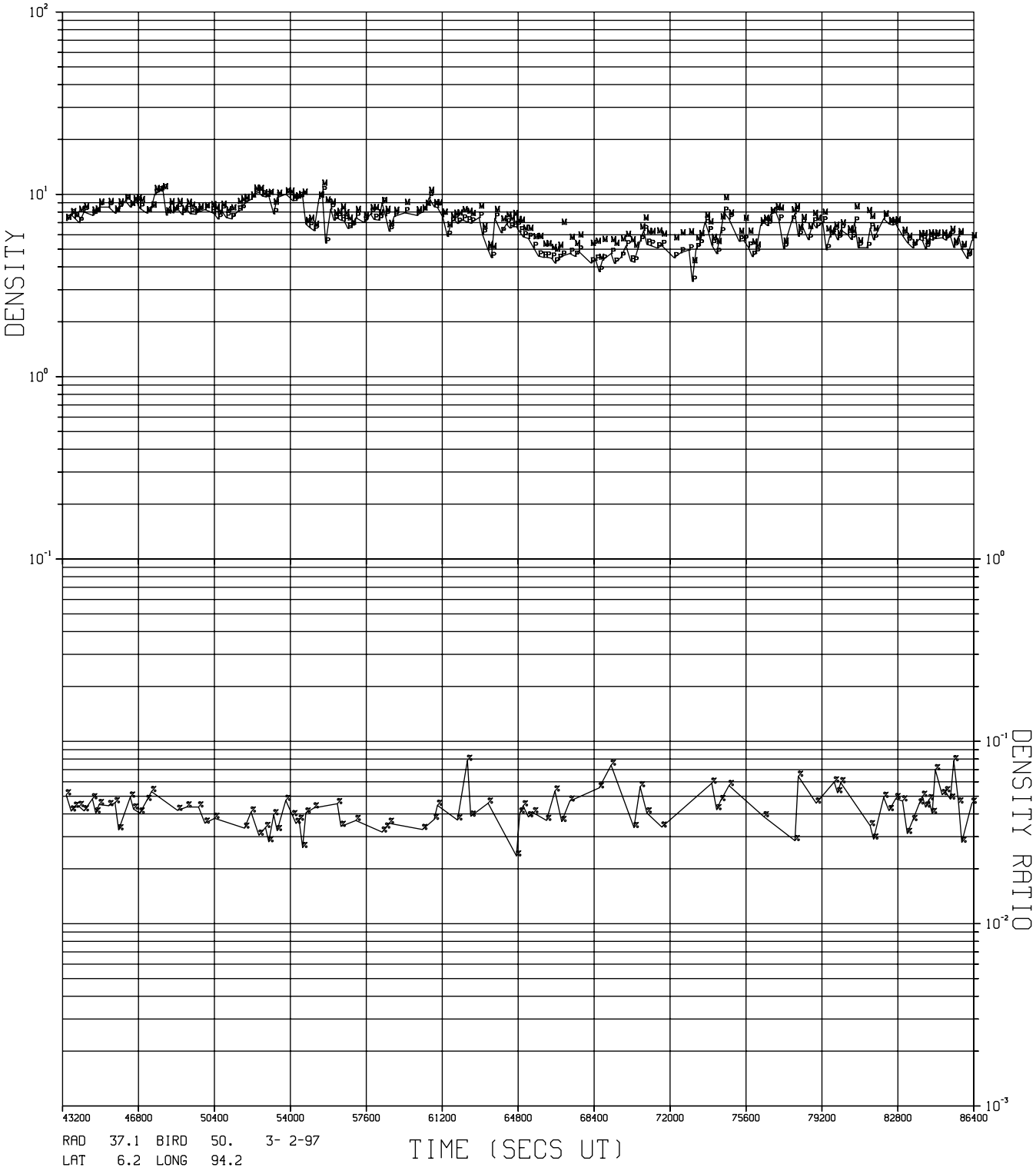

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

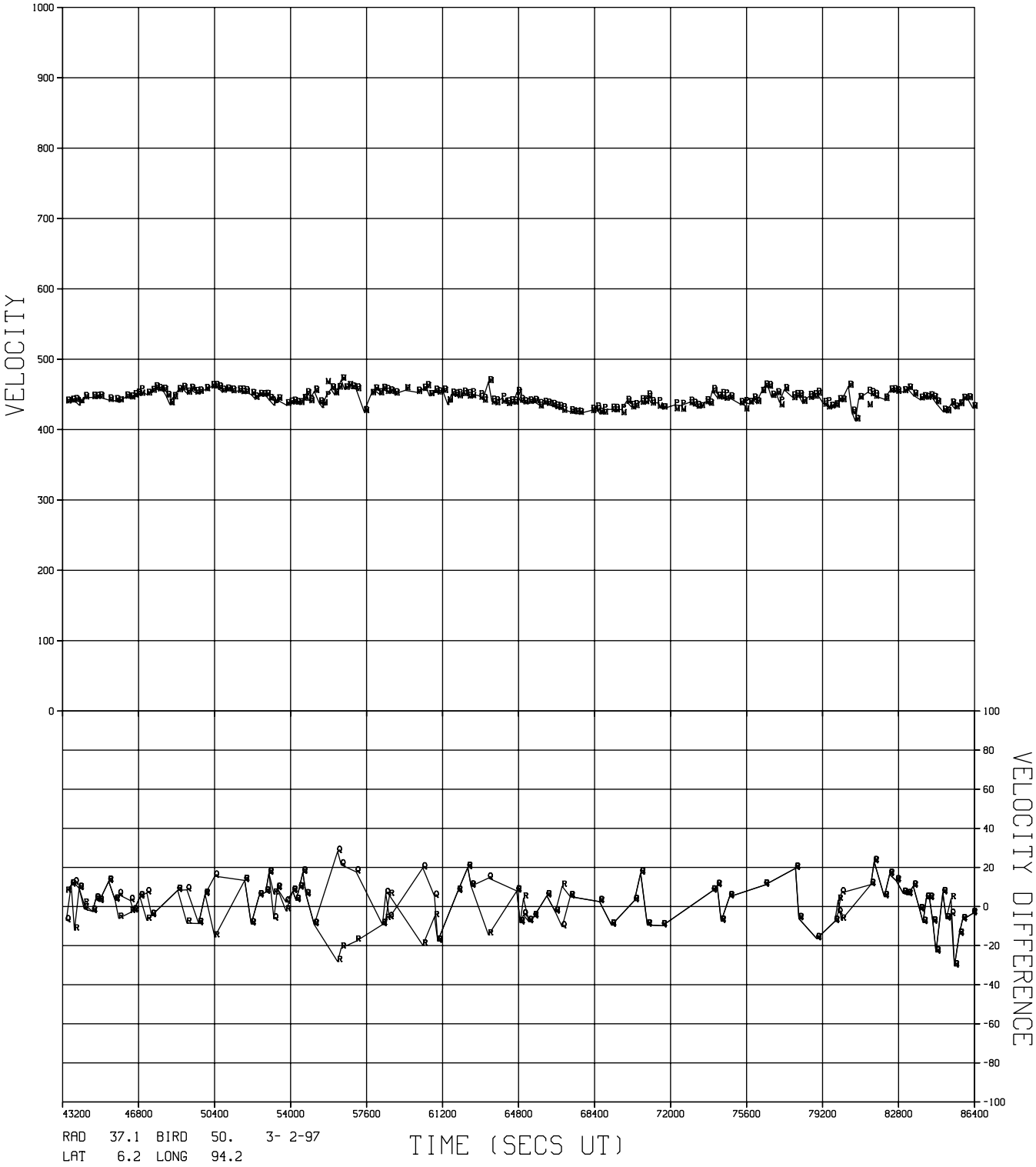

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

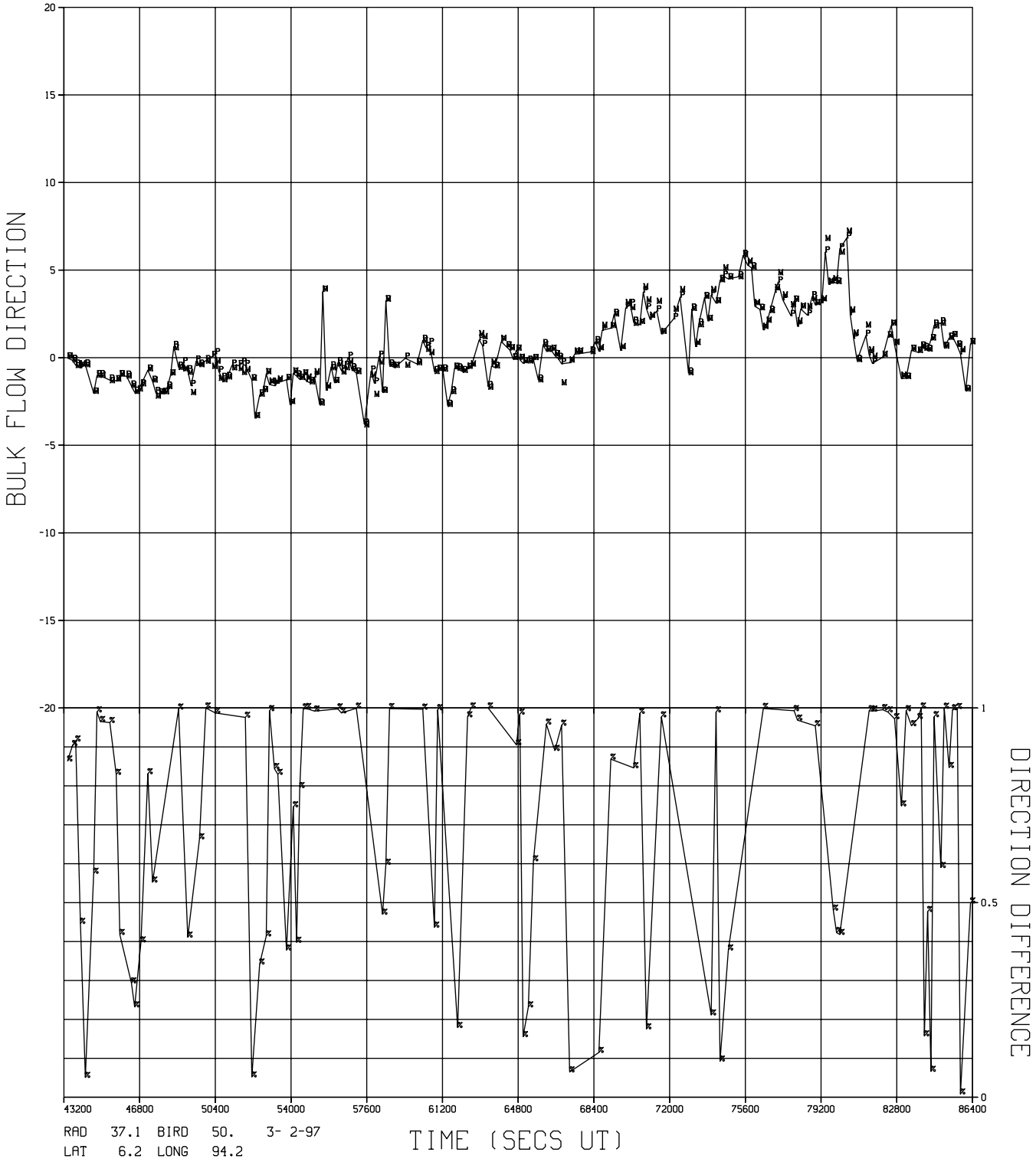

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

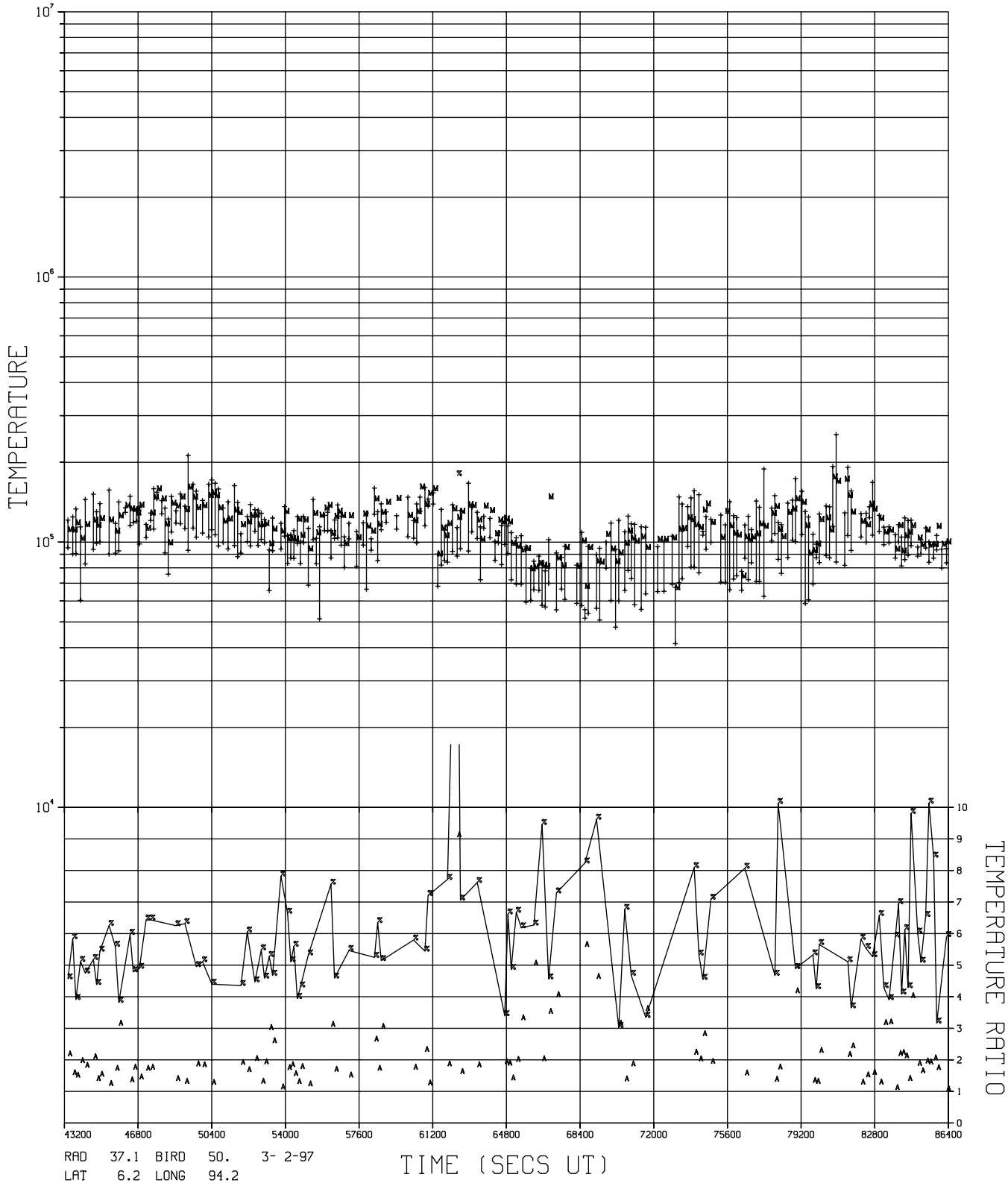

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

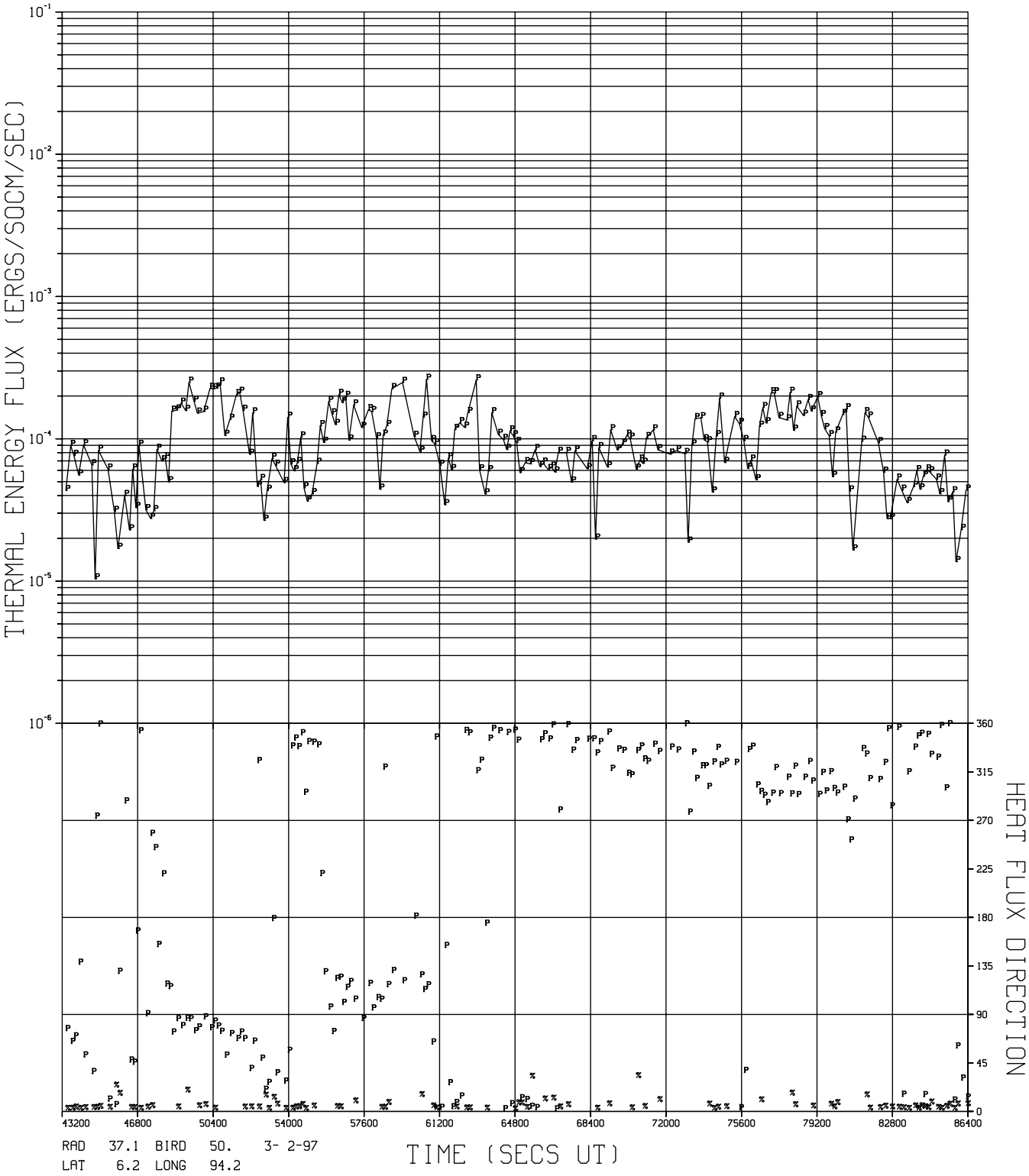

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 37.4 BIRD 50. 3- 2-97
LAT 13.9 LONG 83.8

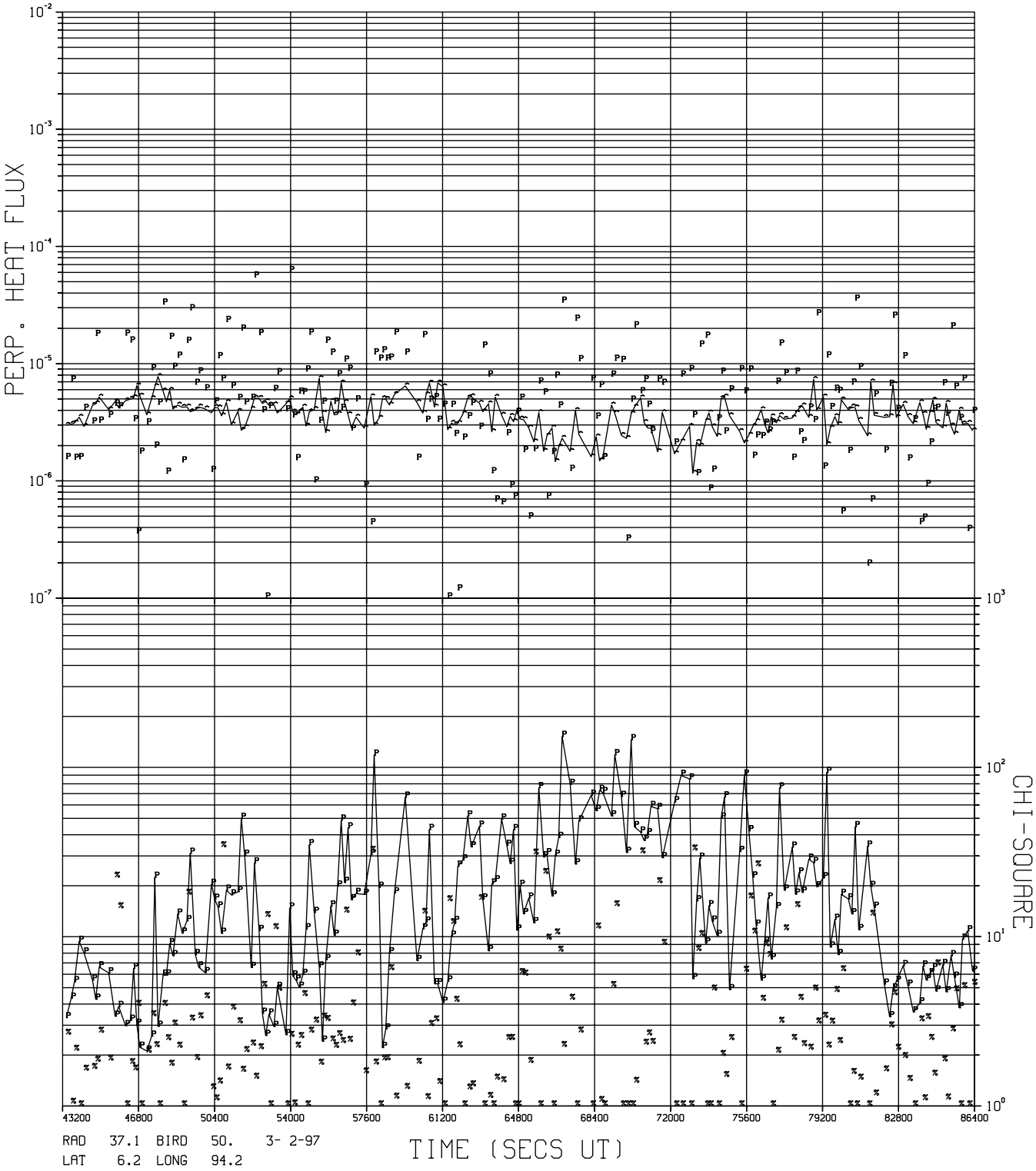

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

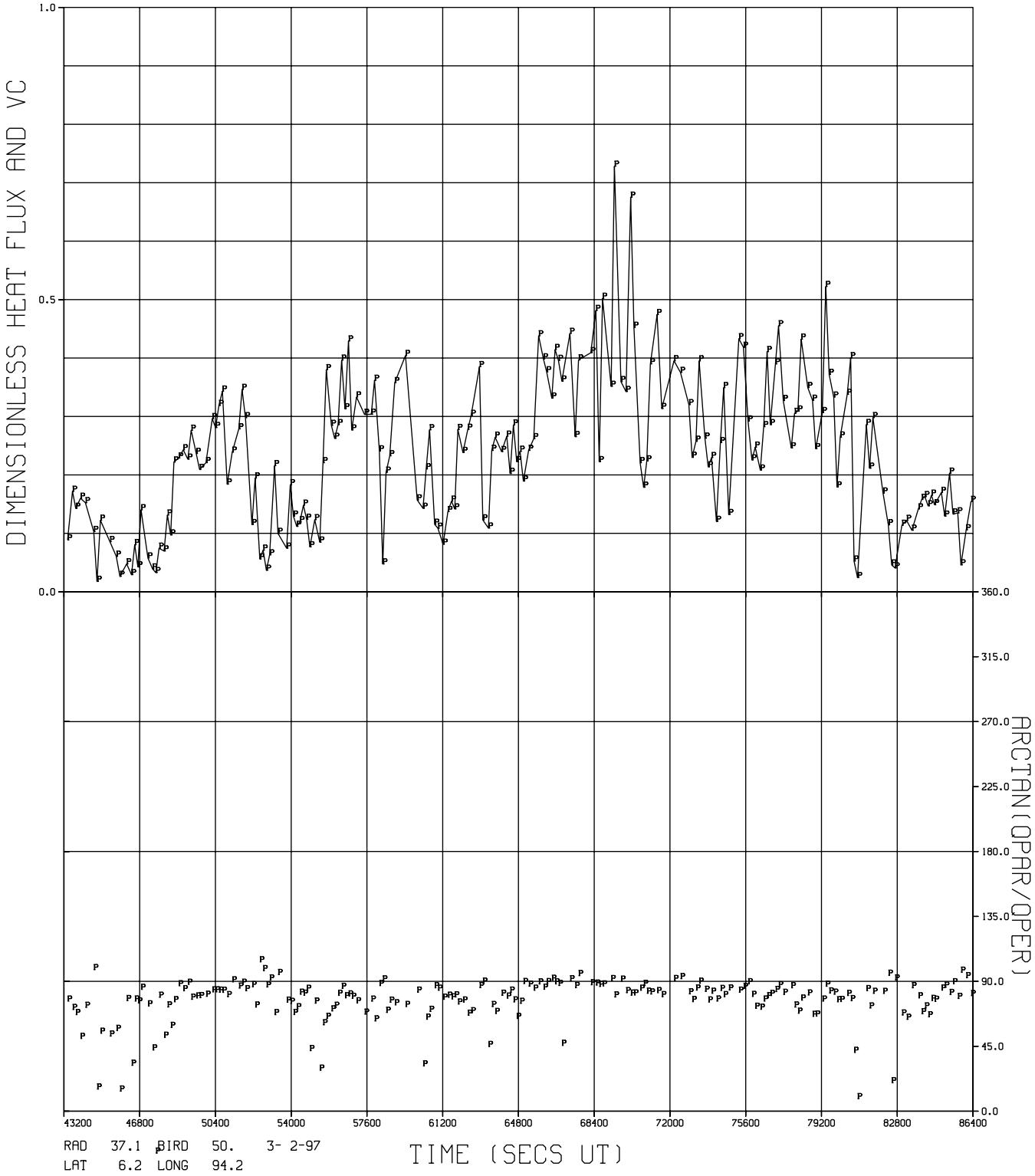

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

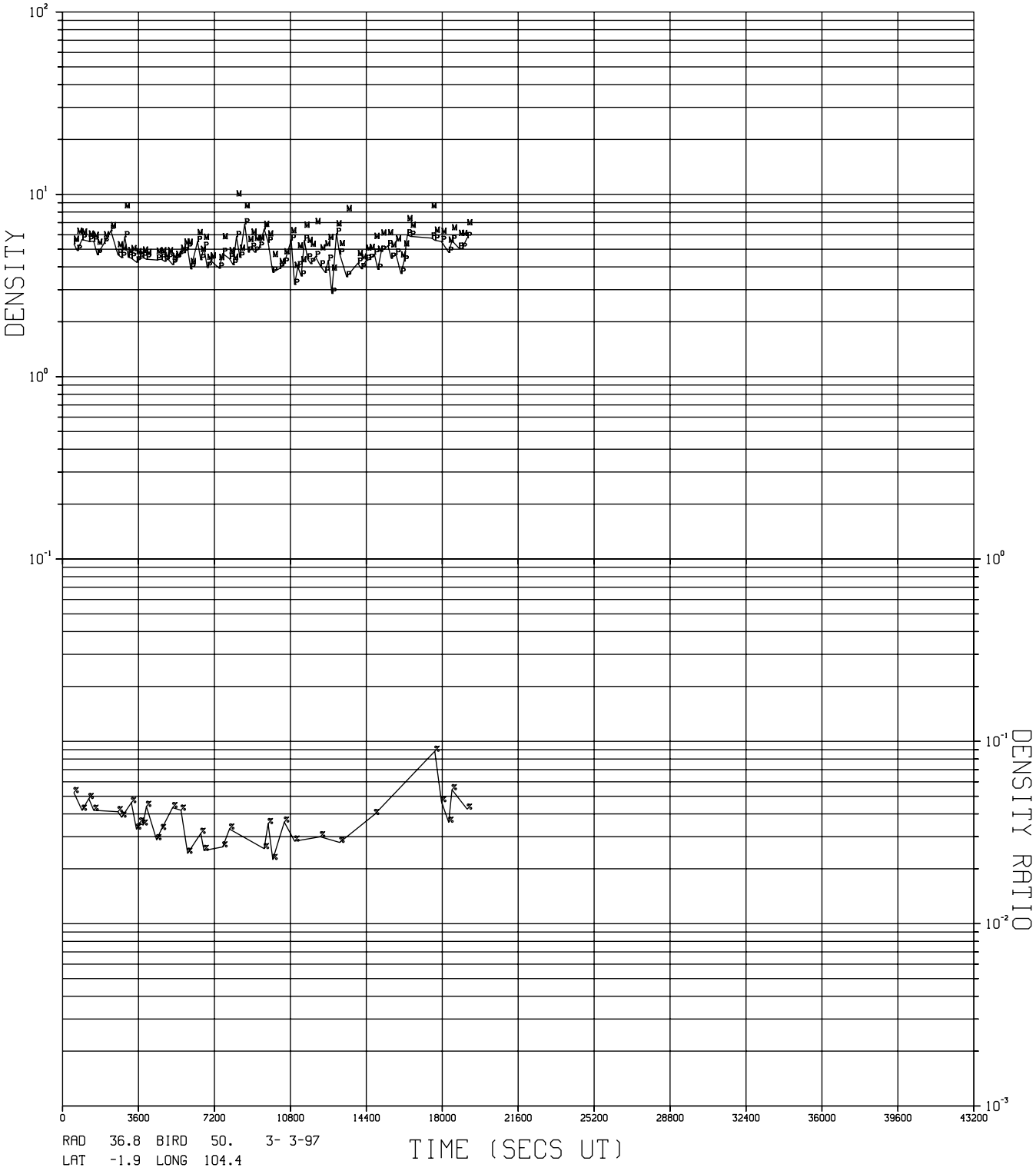

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

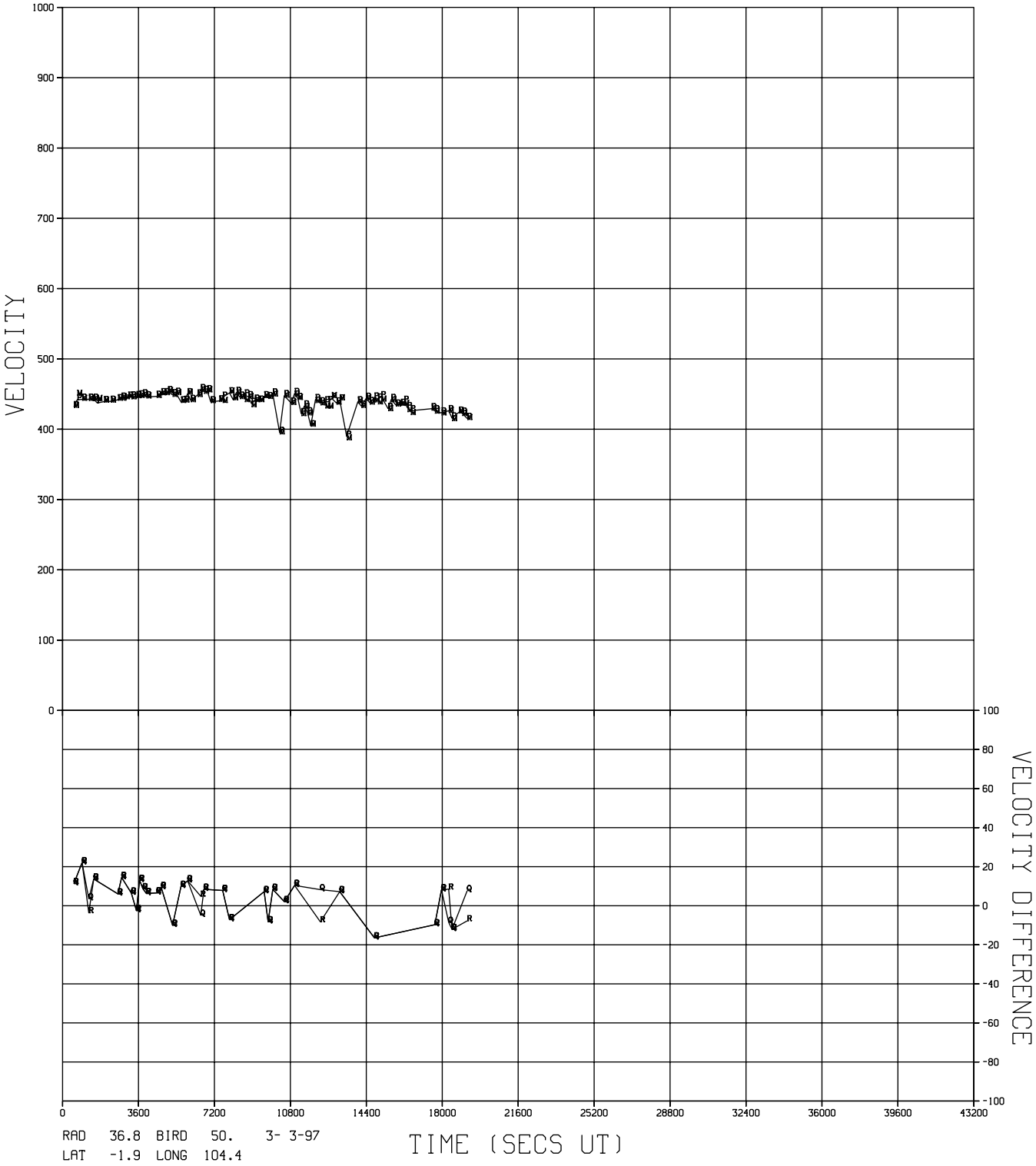

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

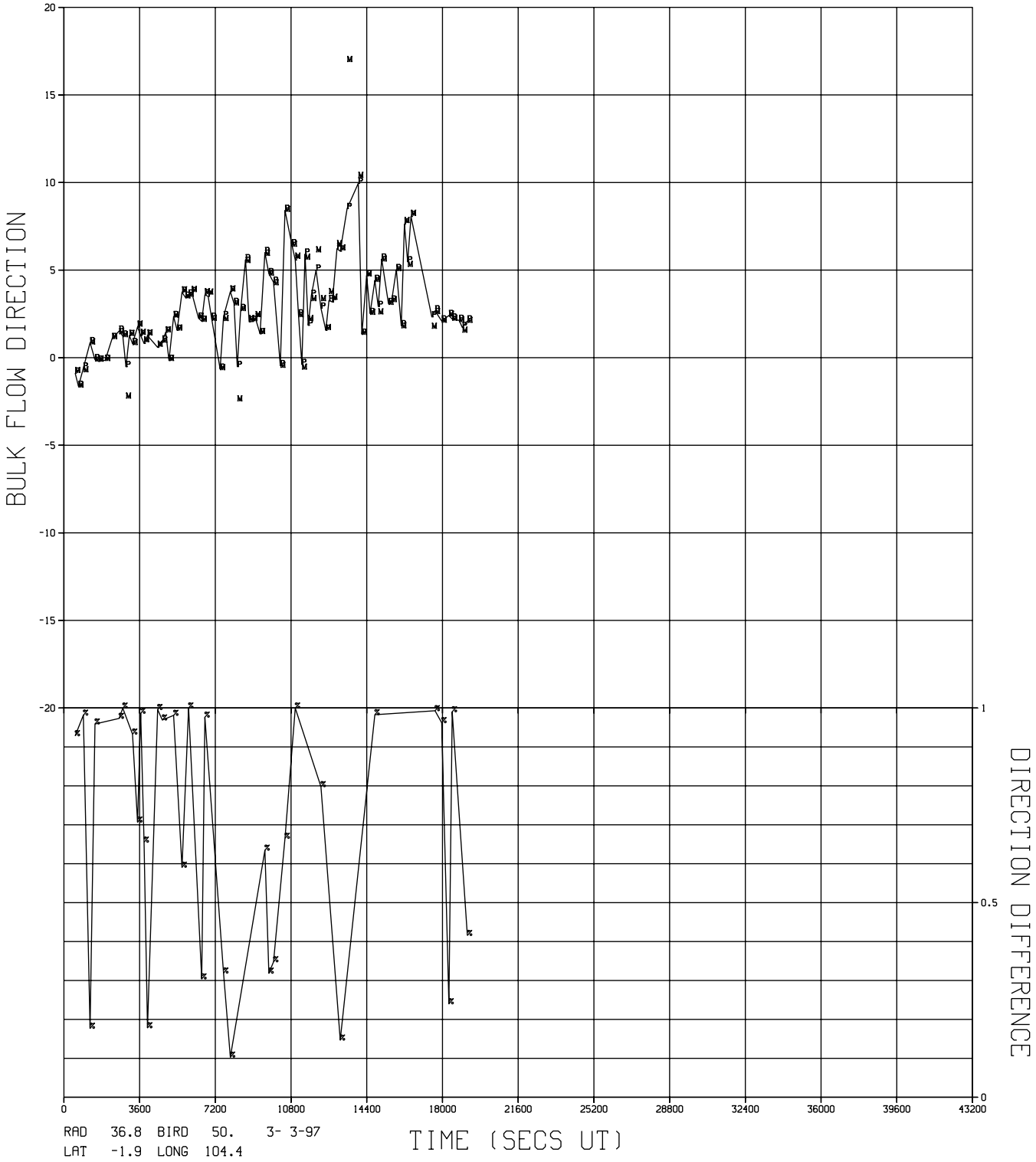

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

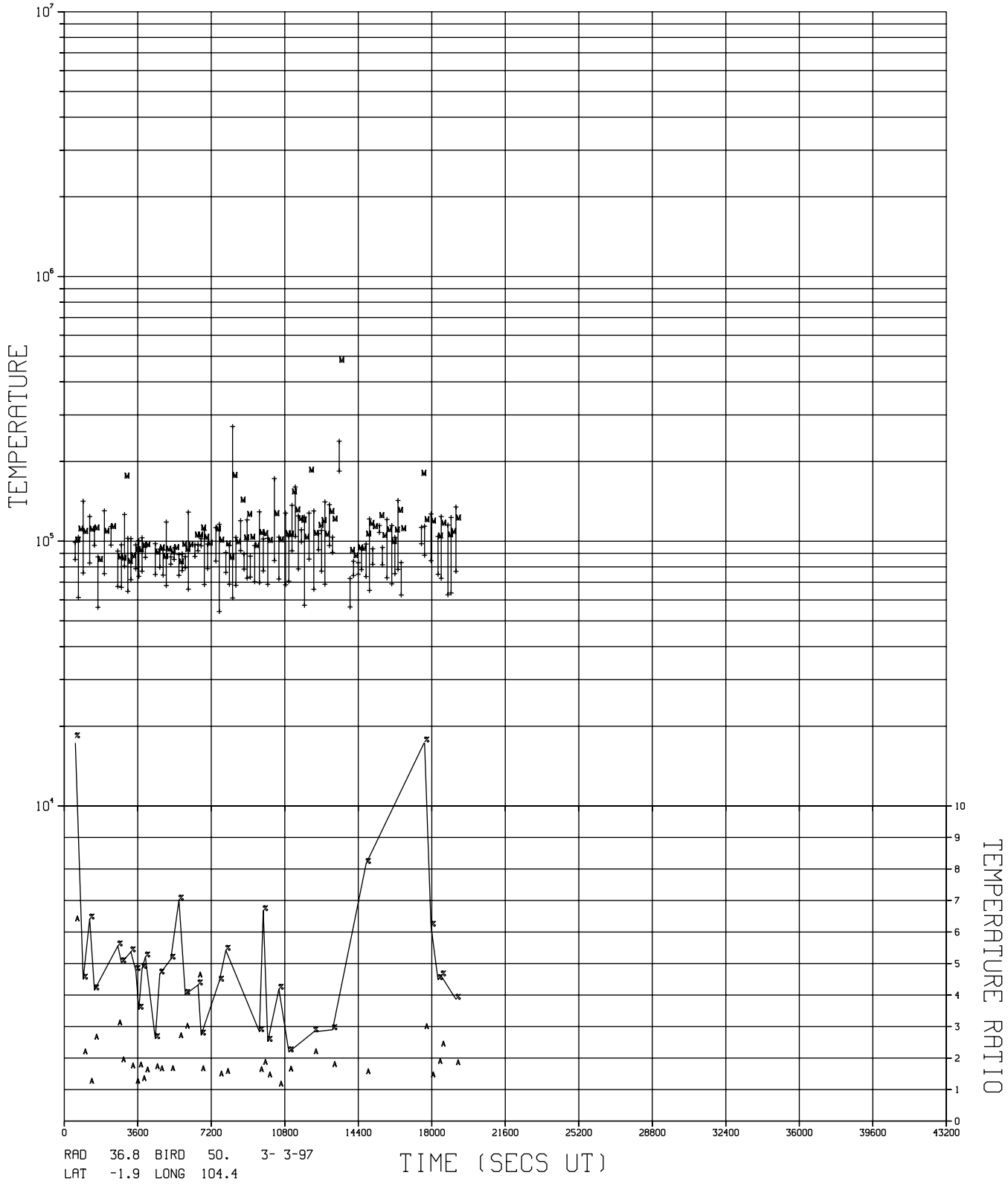

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

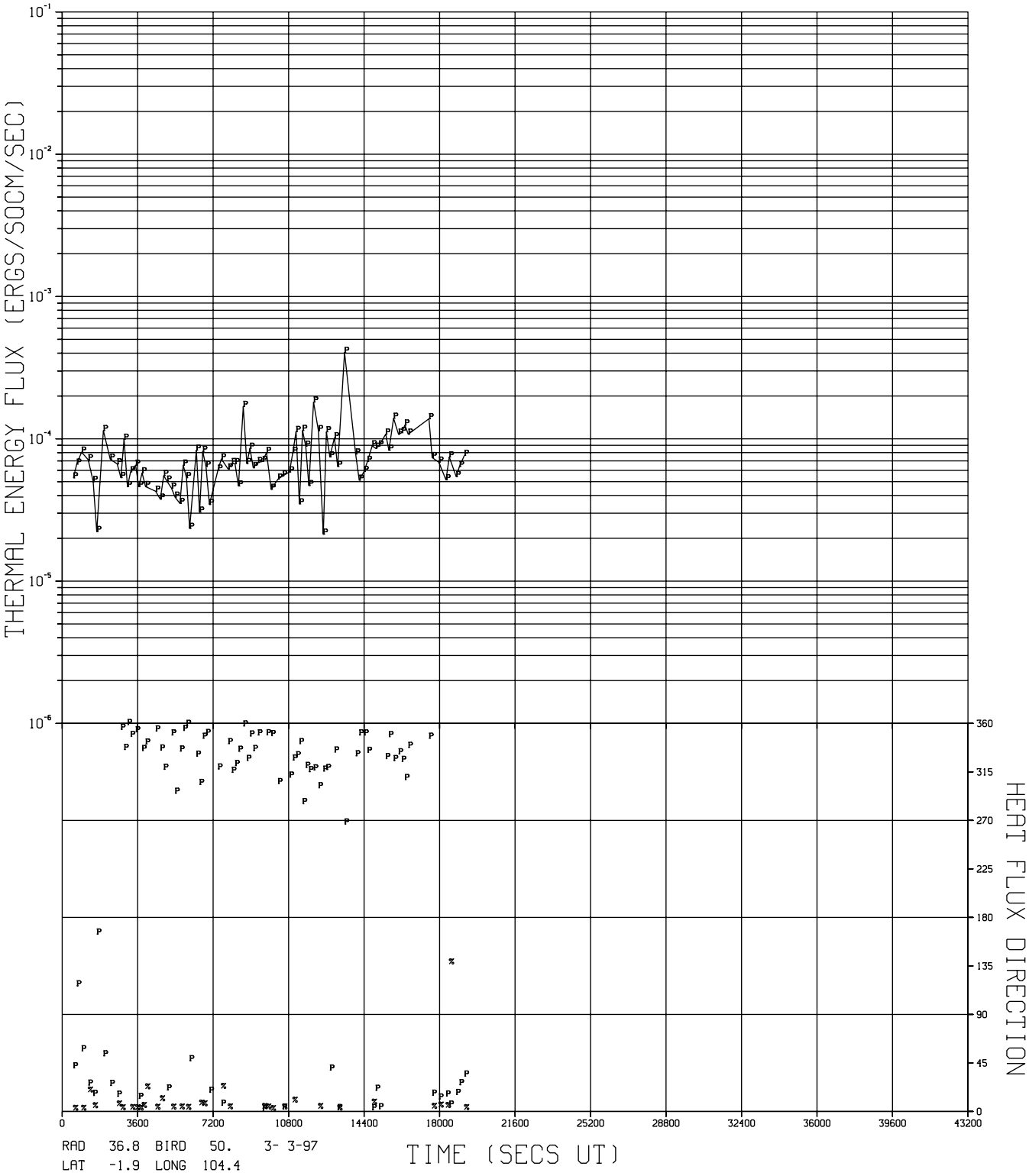

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 37.1 BIRD 50. 3- 2-97
LAT 6.2 LONG 94.2

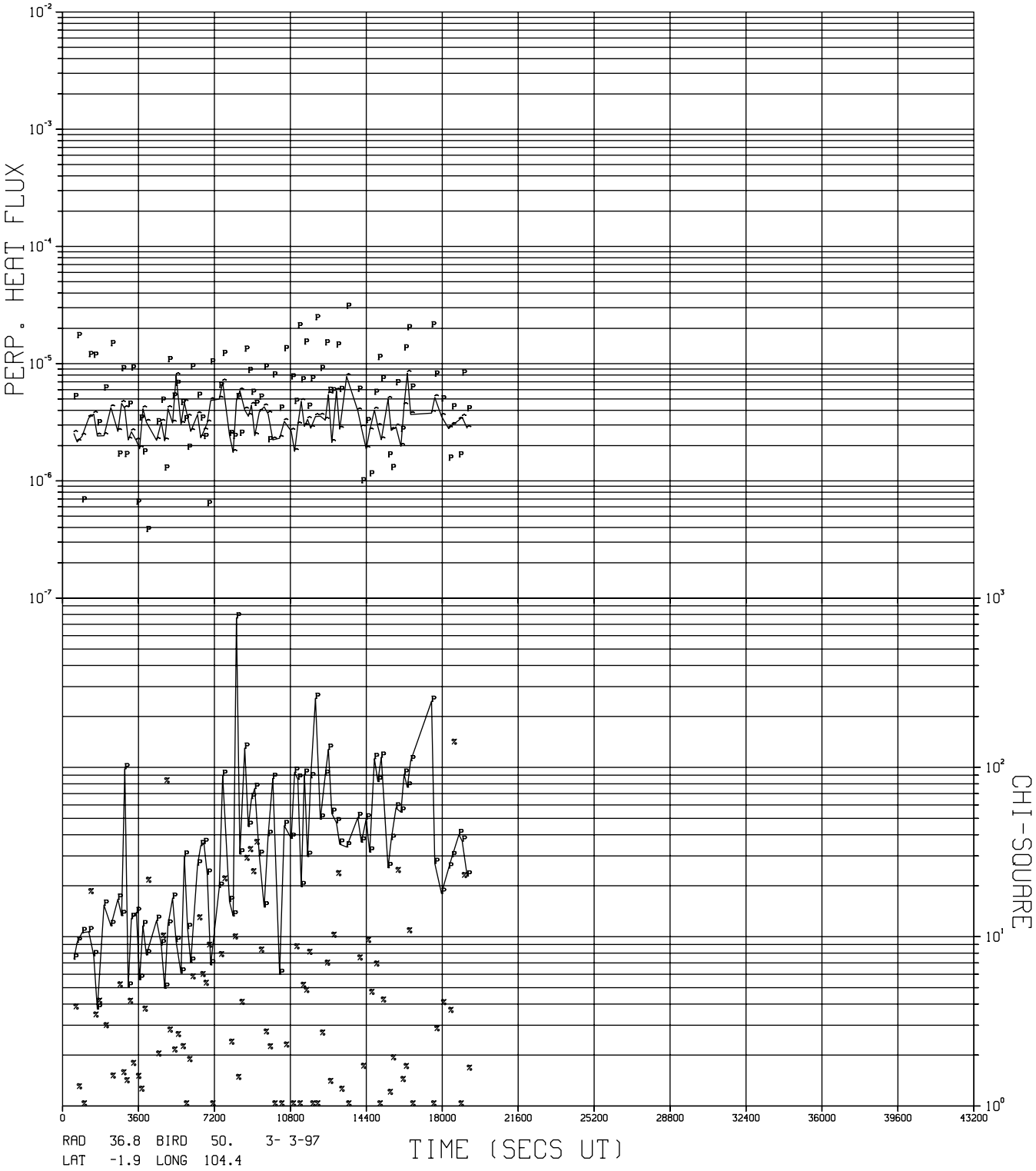

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4

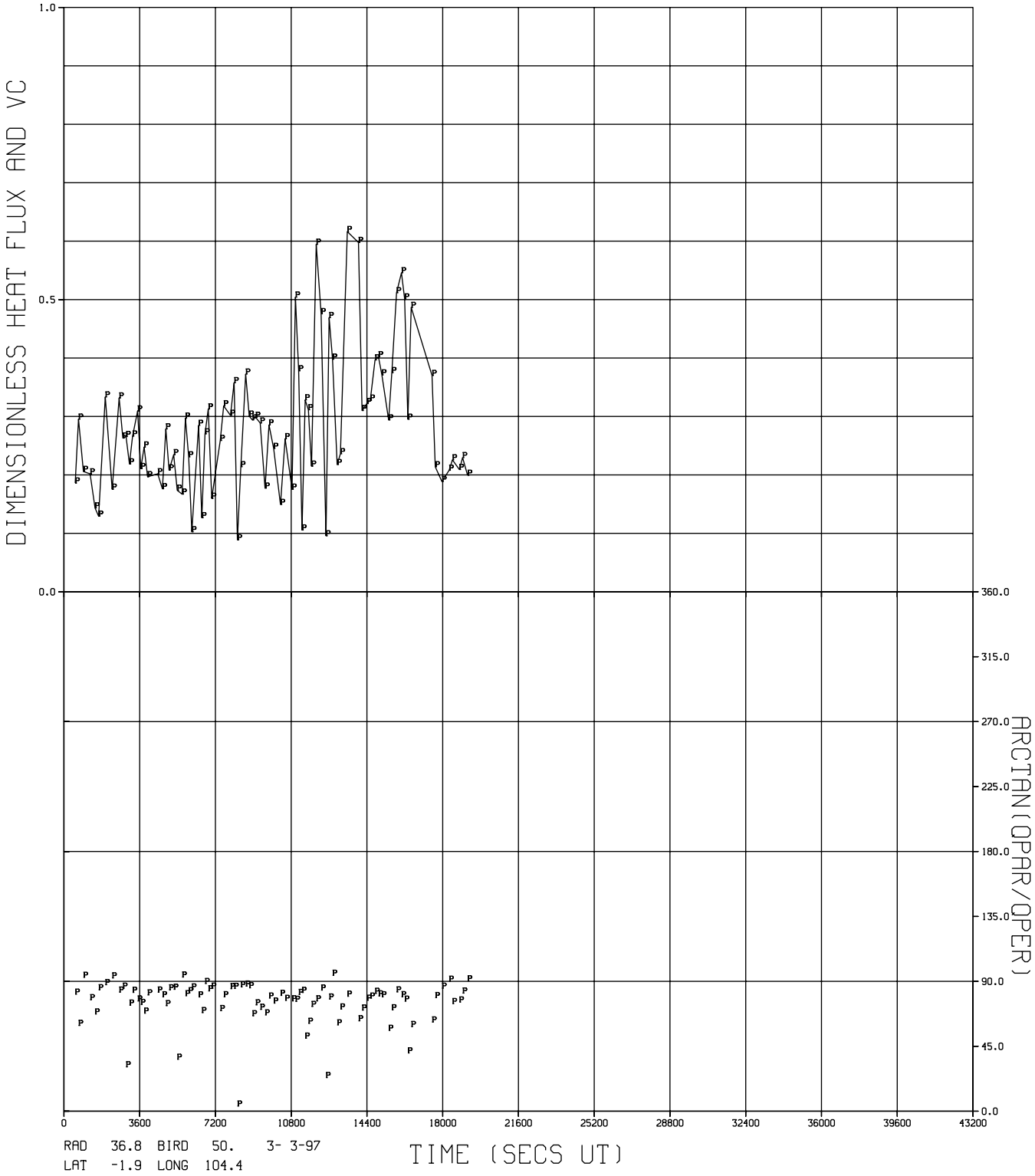

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4


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 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4


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 36.8 BIRD 50. 3- 3-97
LAT -1.9 LONG 104.4