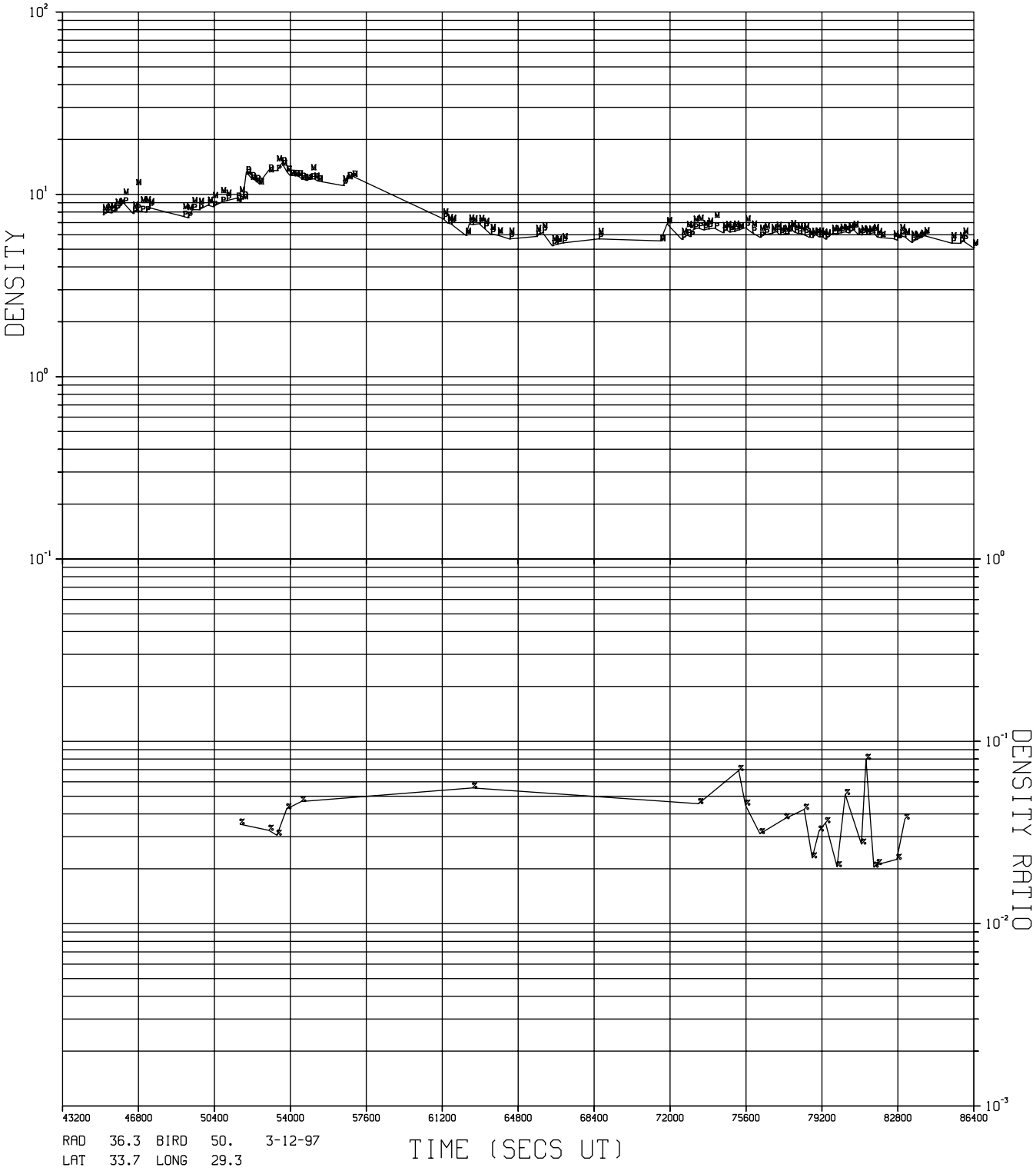
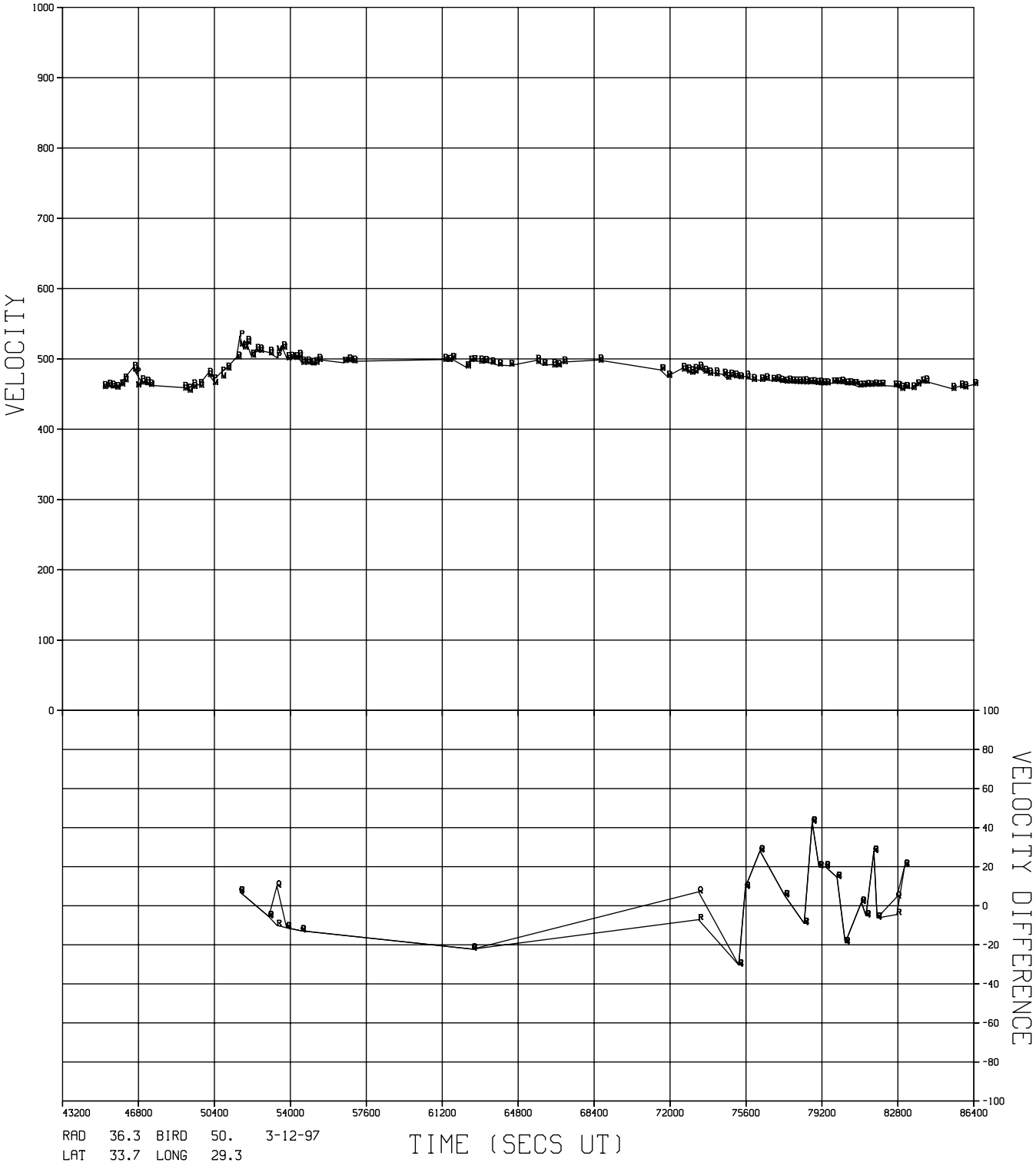
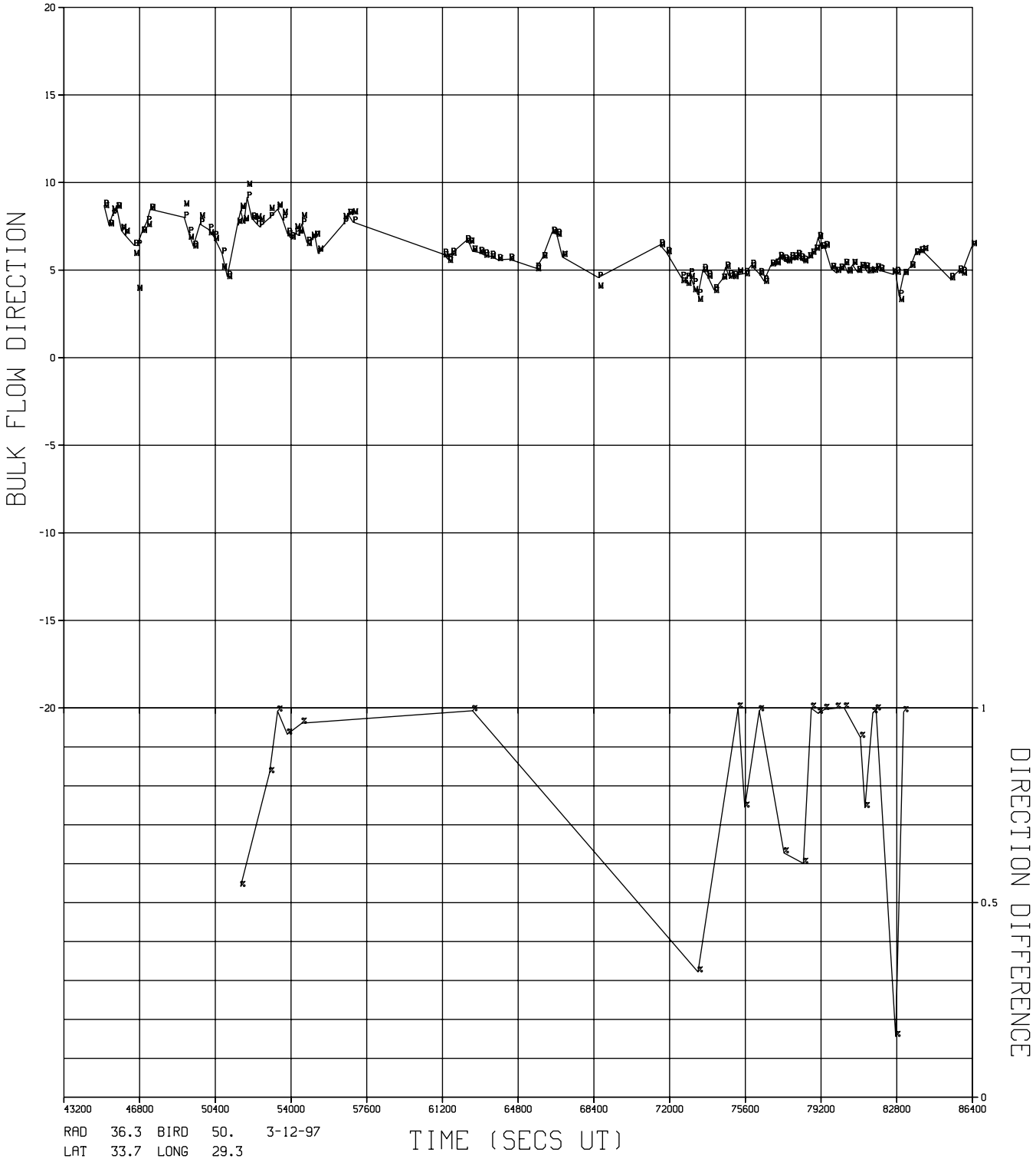
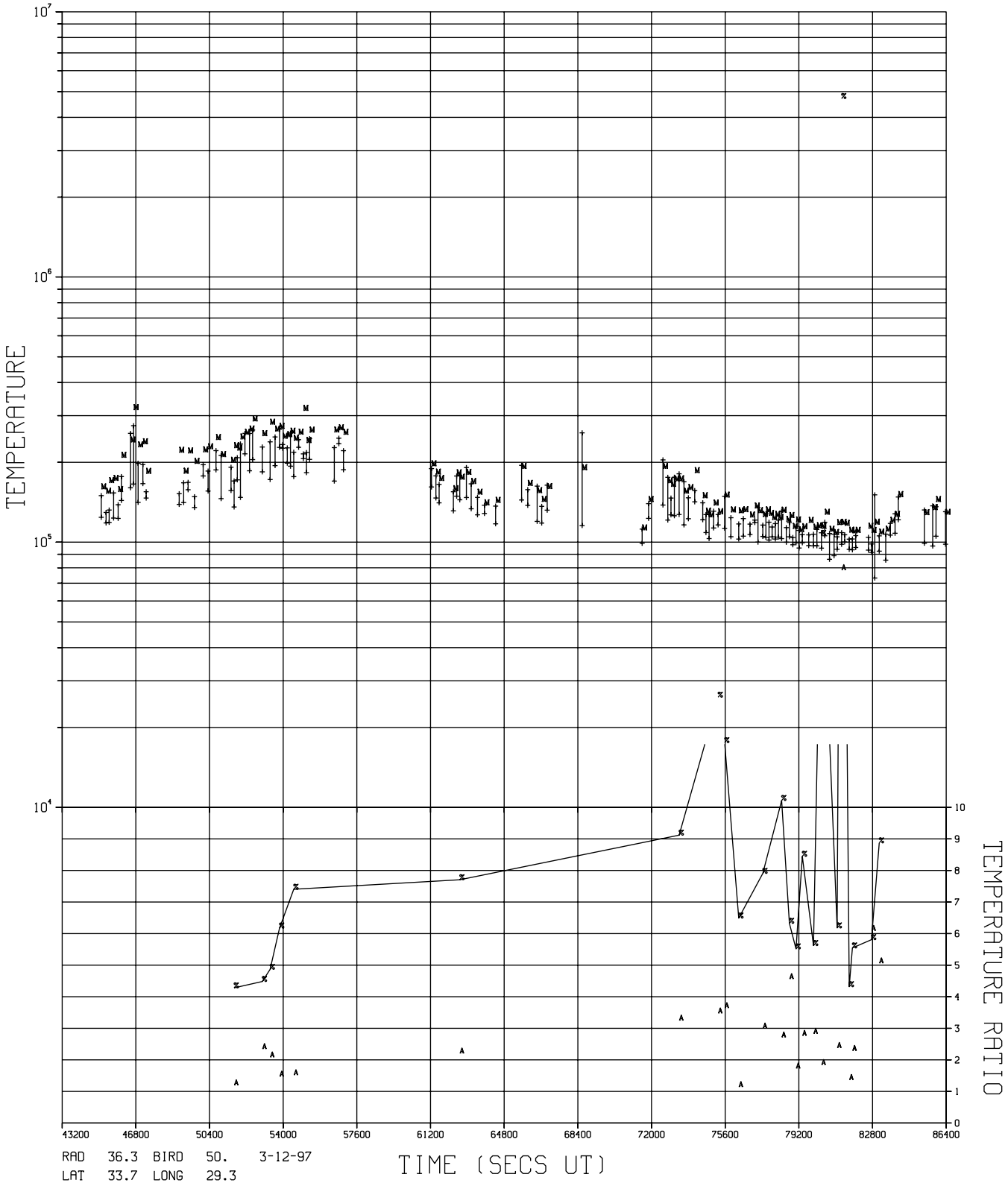
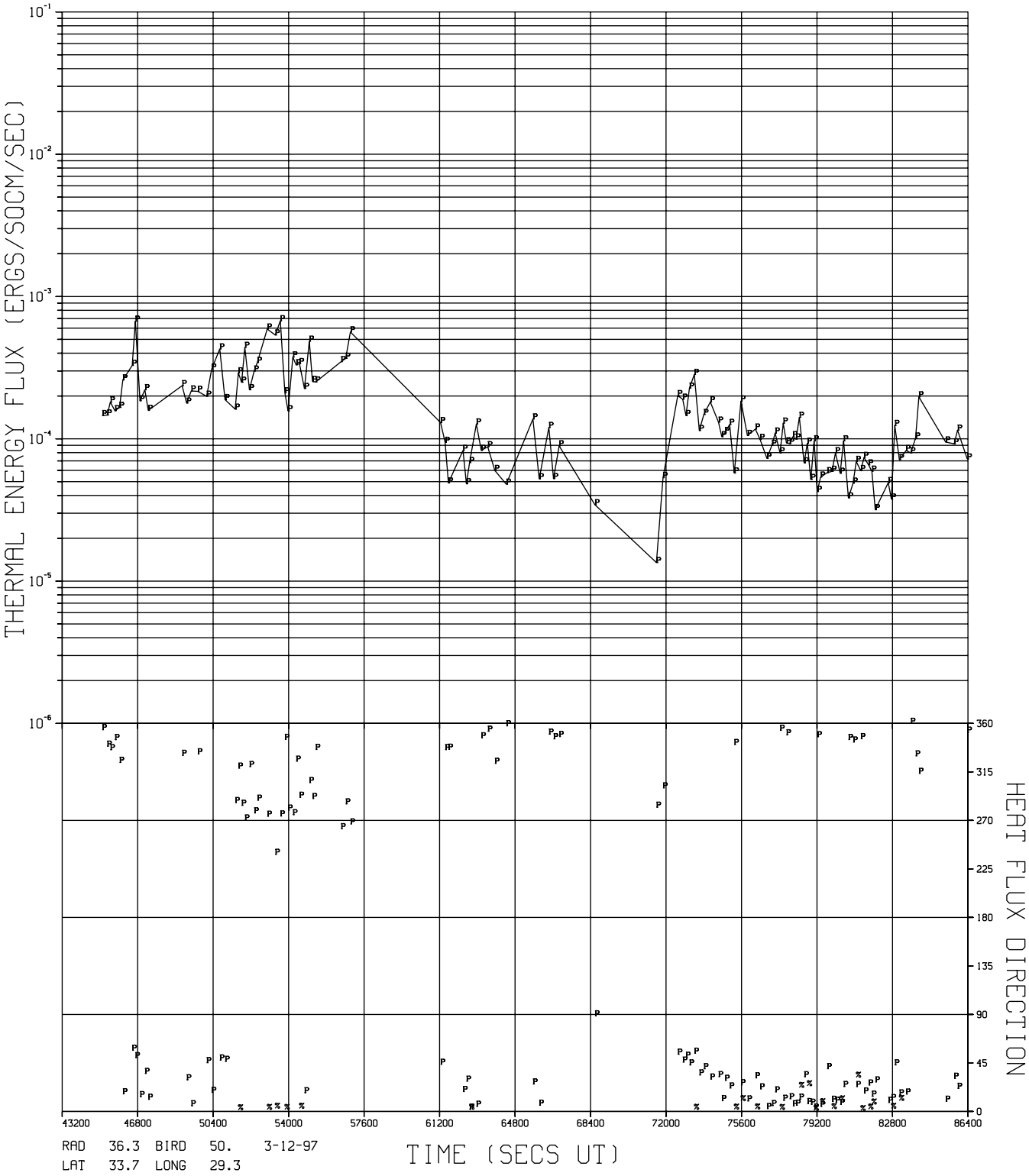
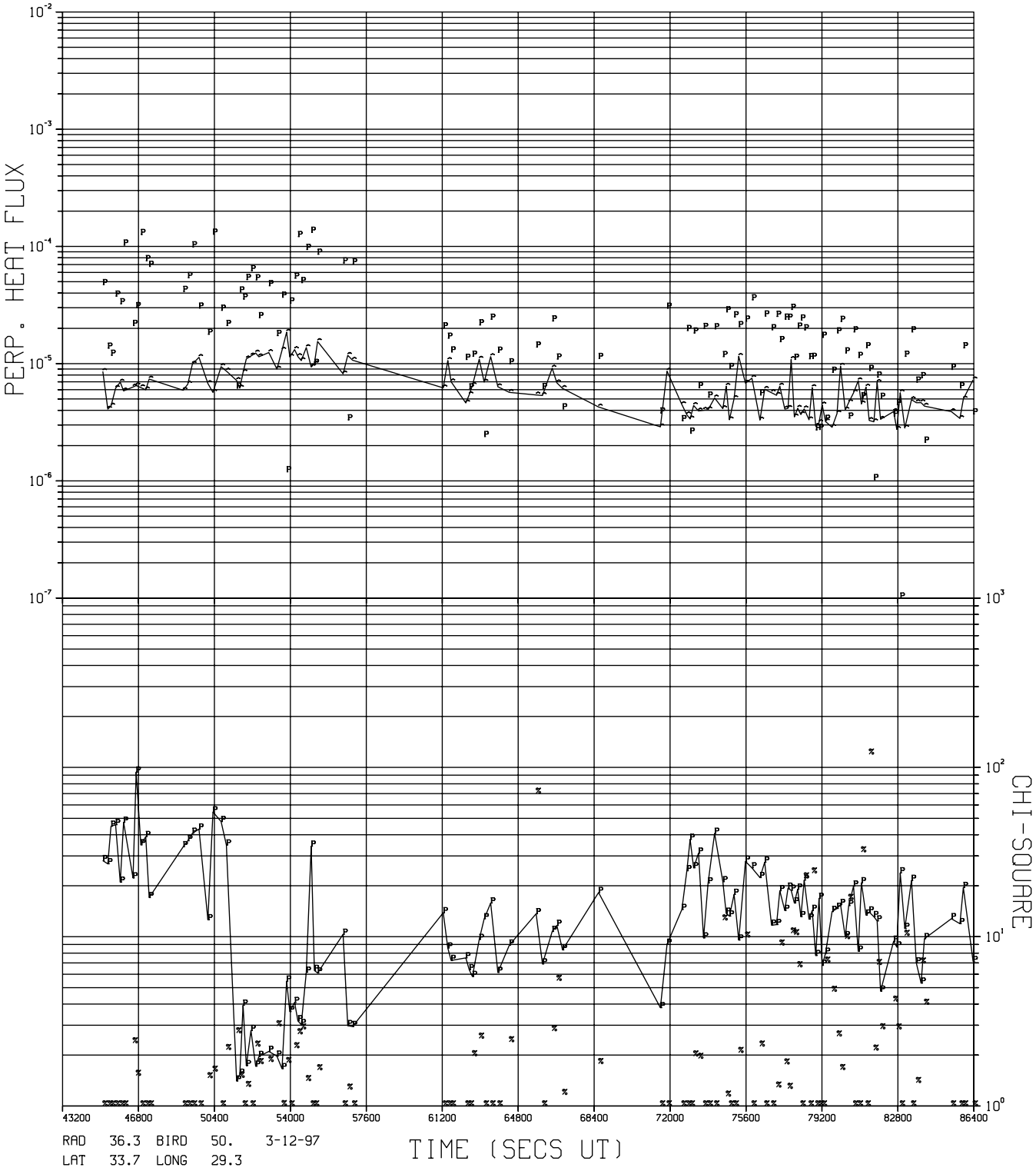

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

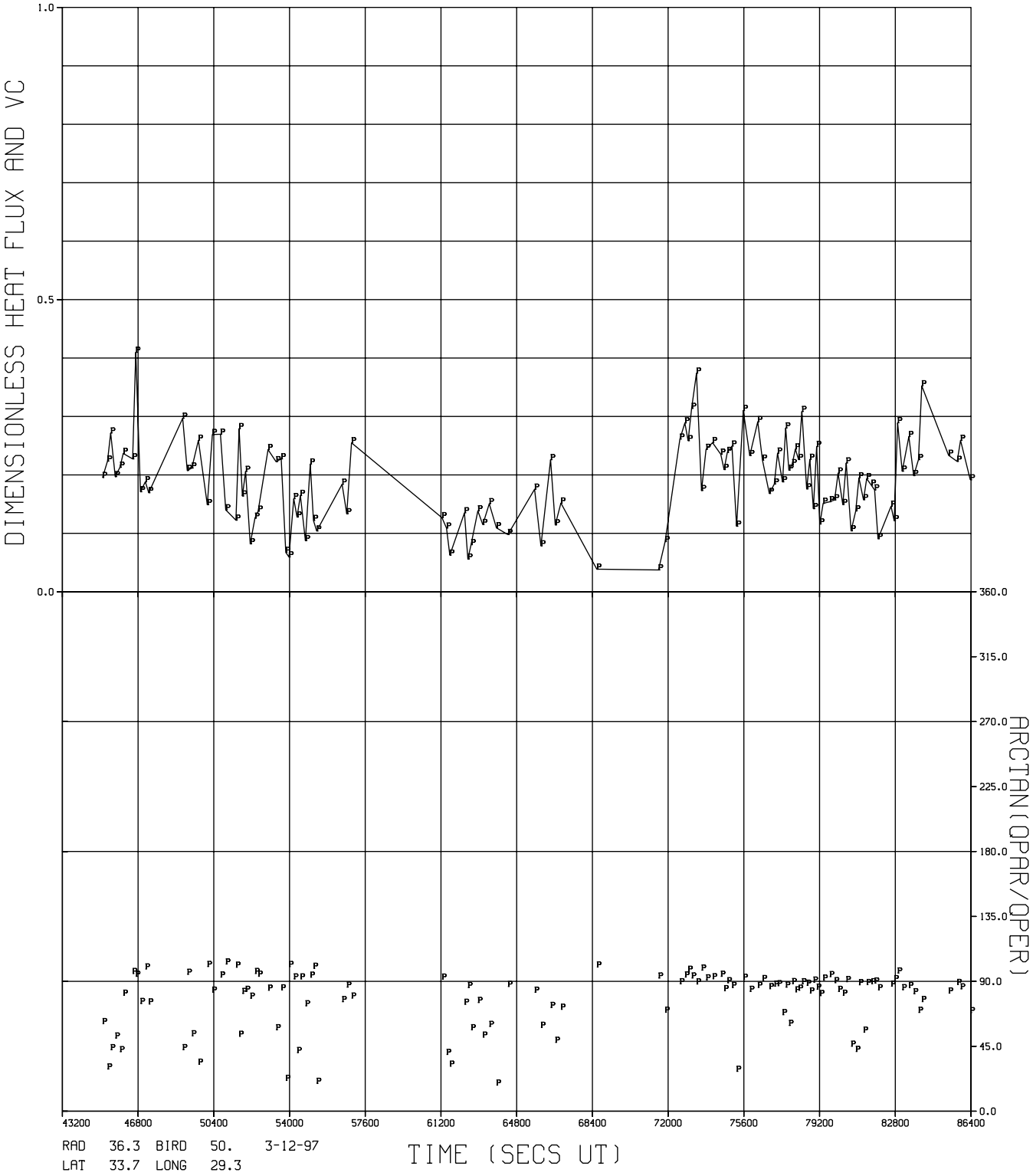

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

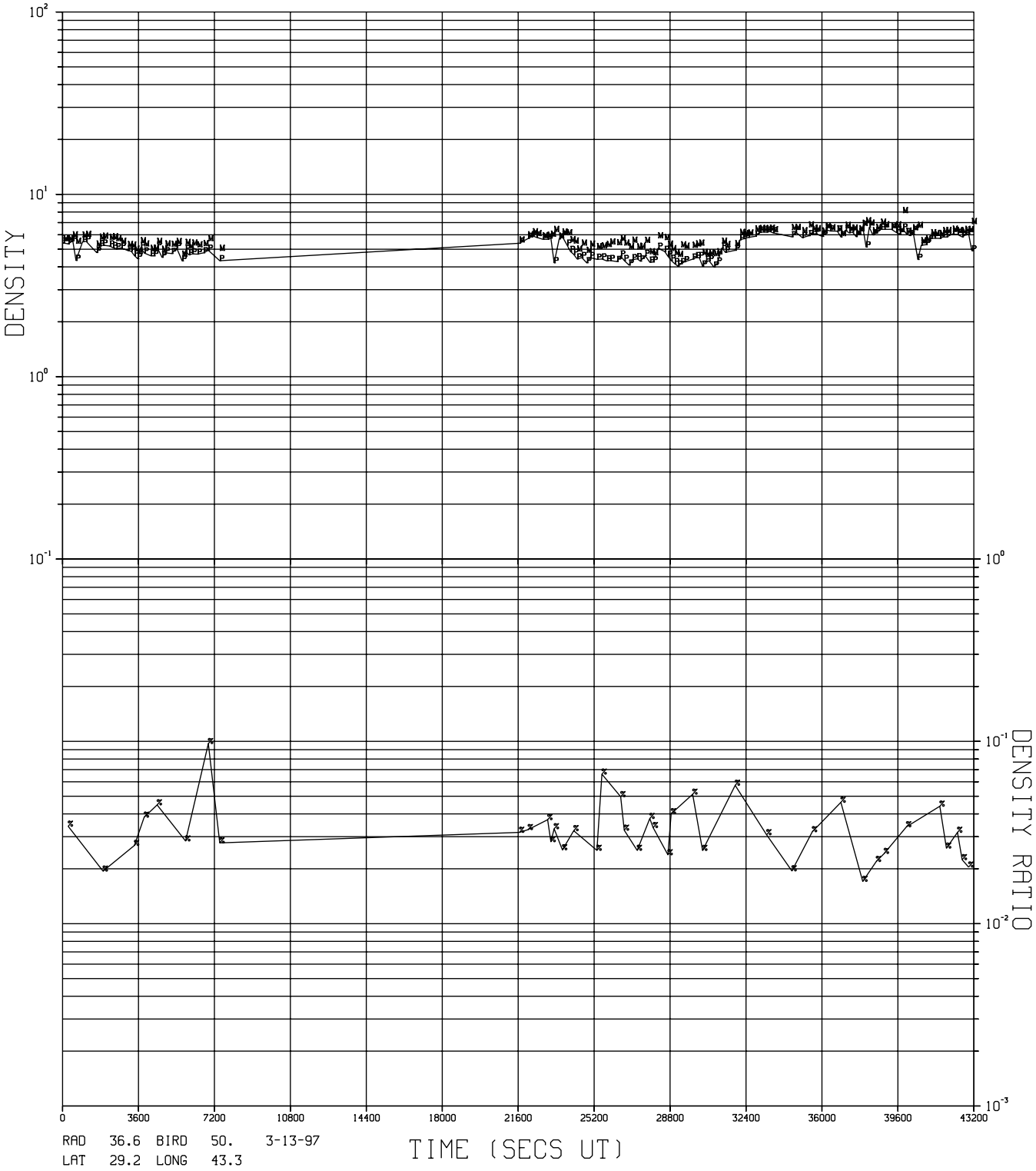

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

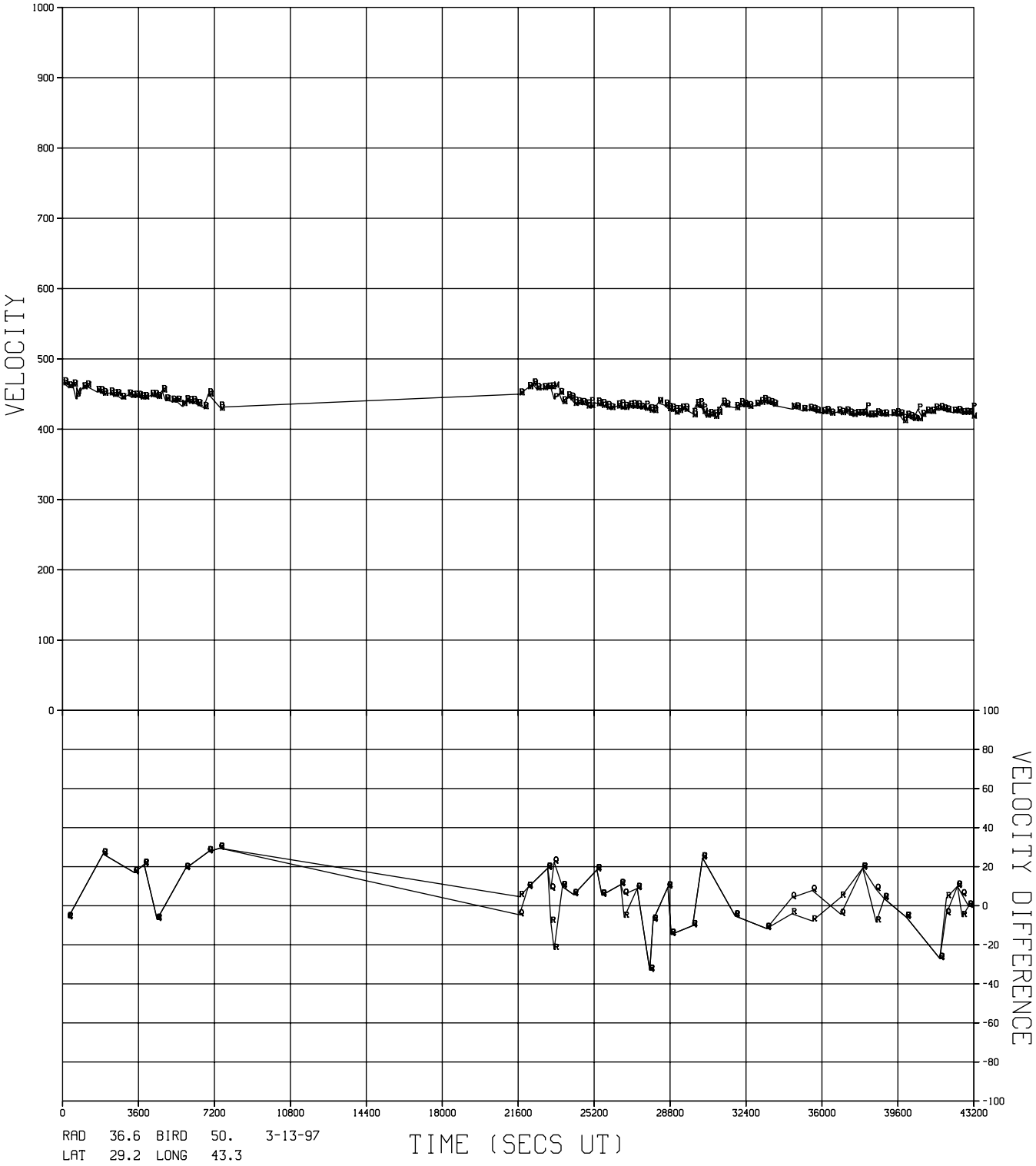

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

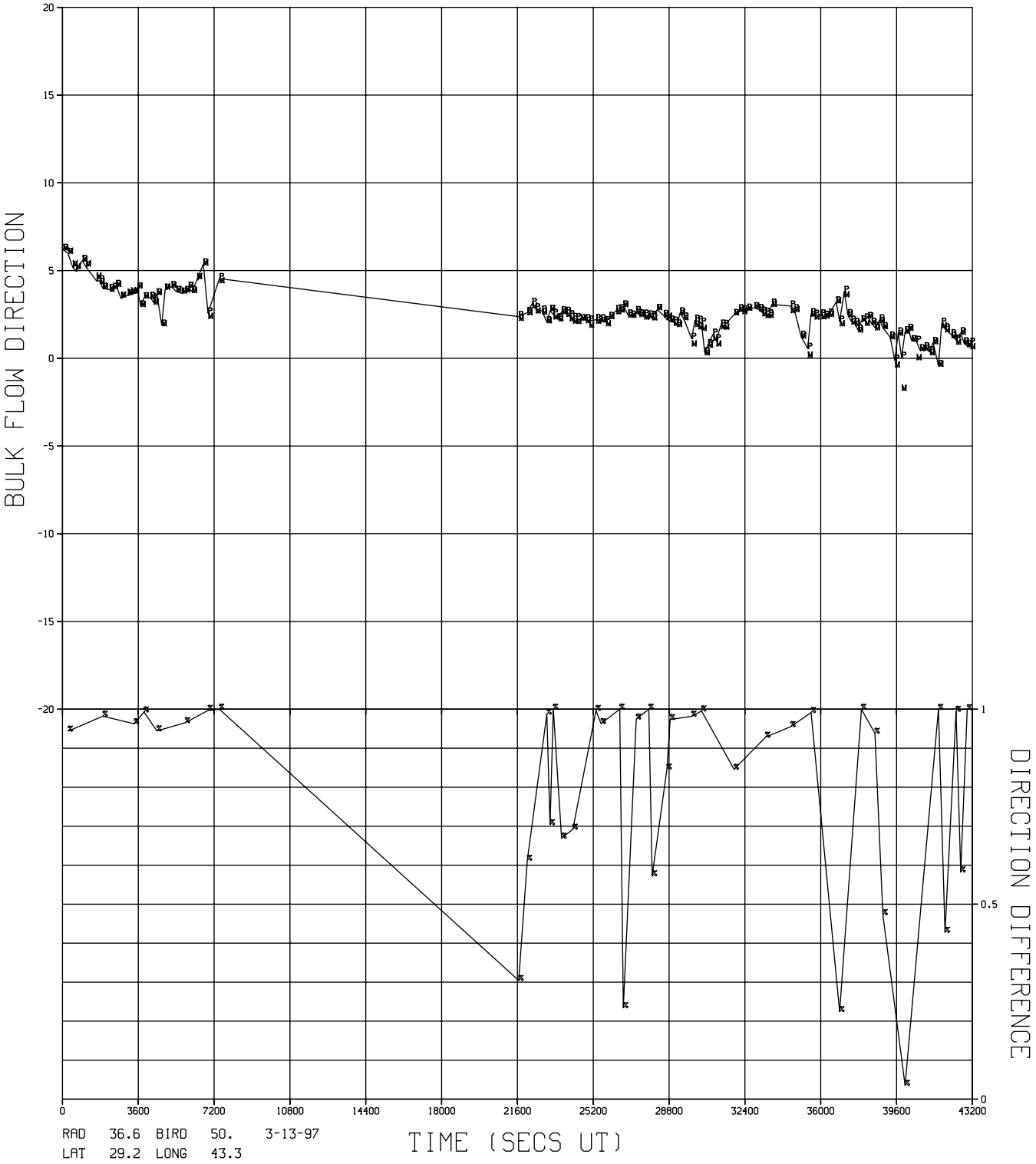

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

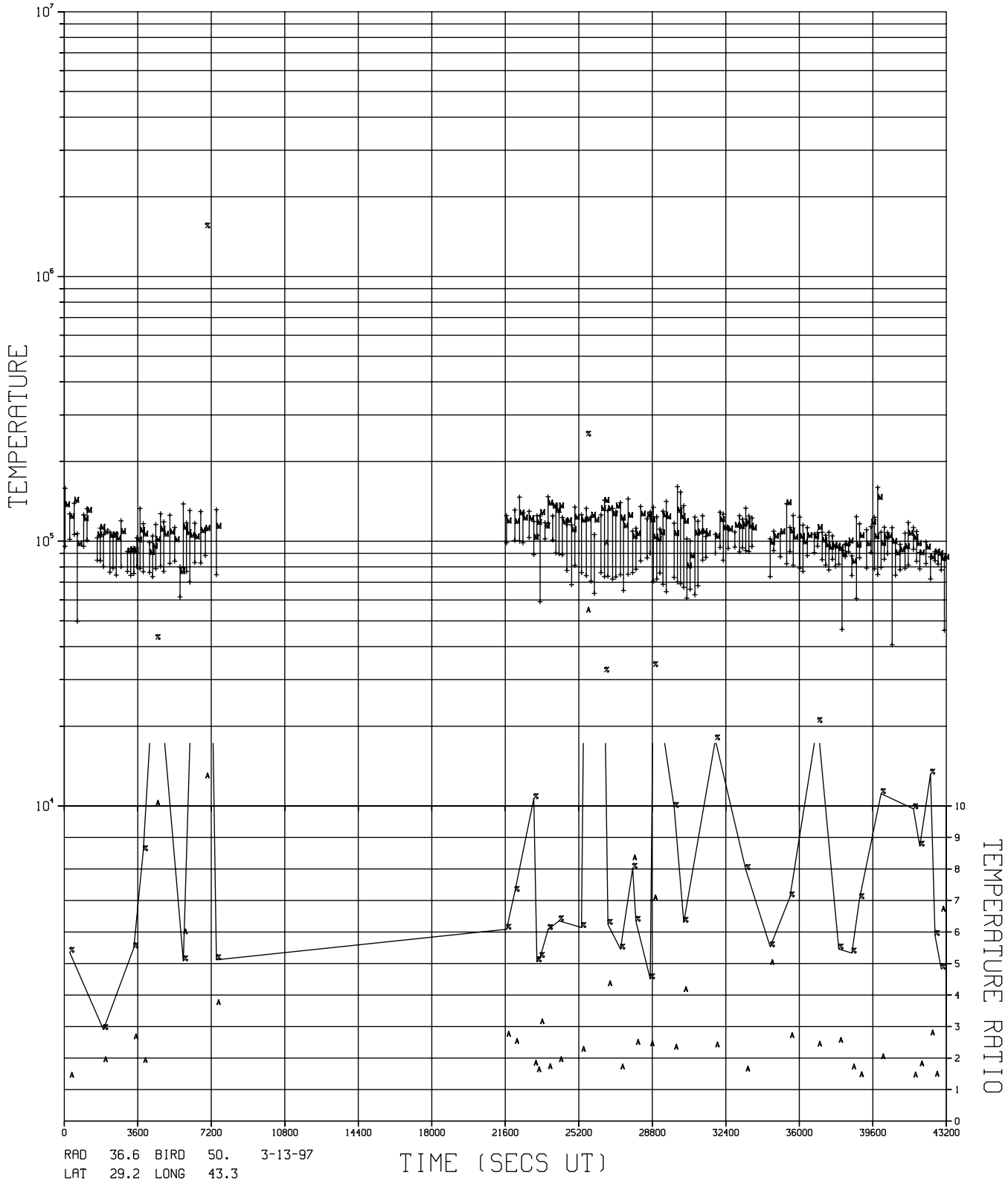

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

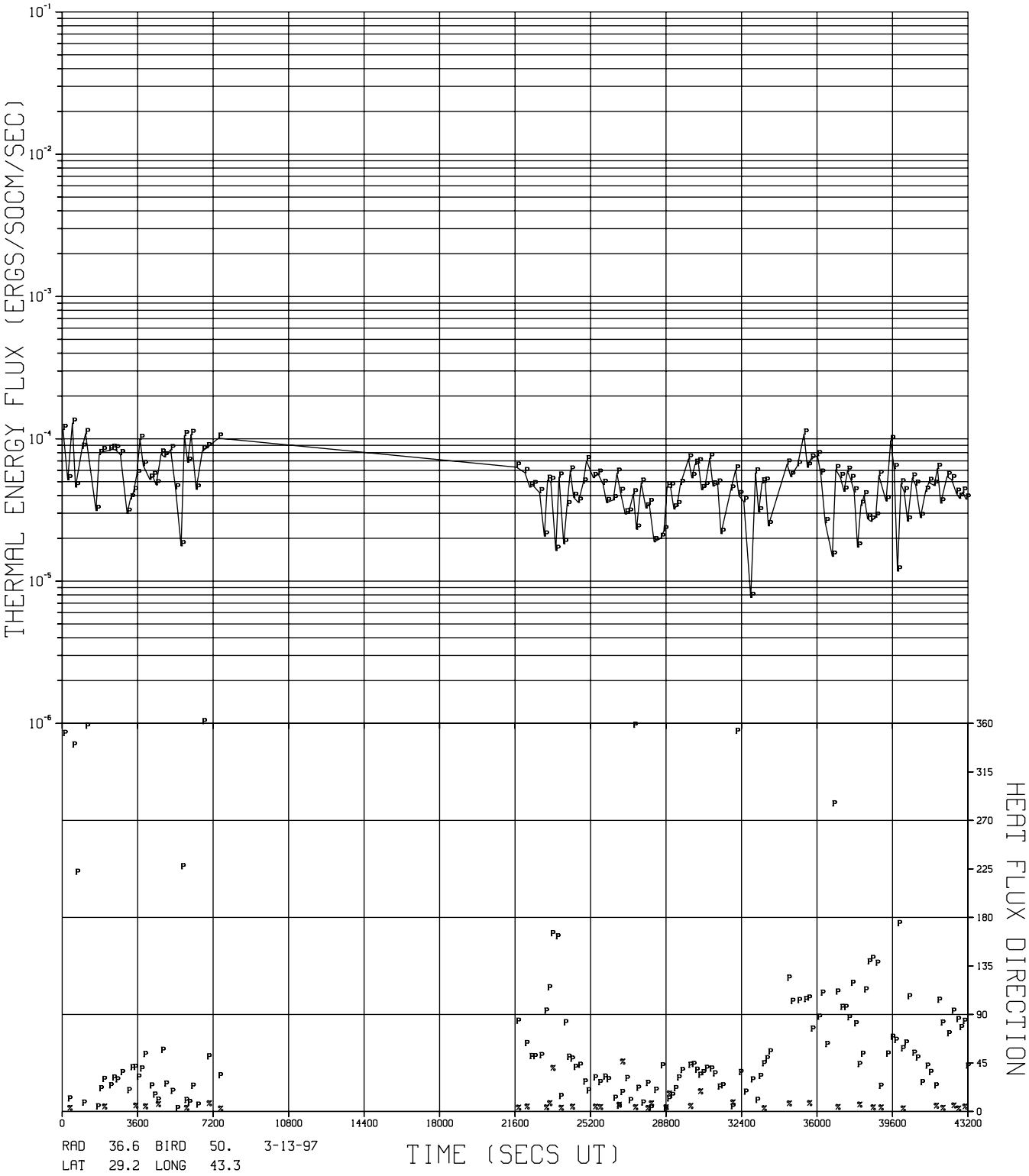

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 36.3 BIRD 50. 3-12-97
LAT 33.7 LONG 29.3

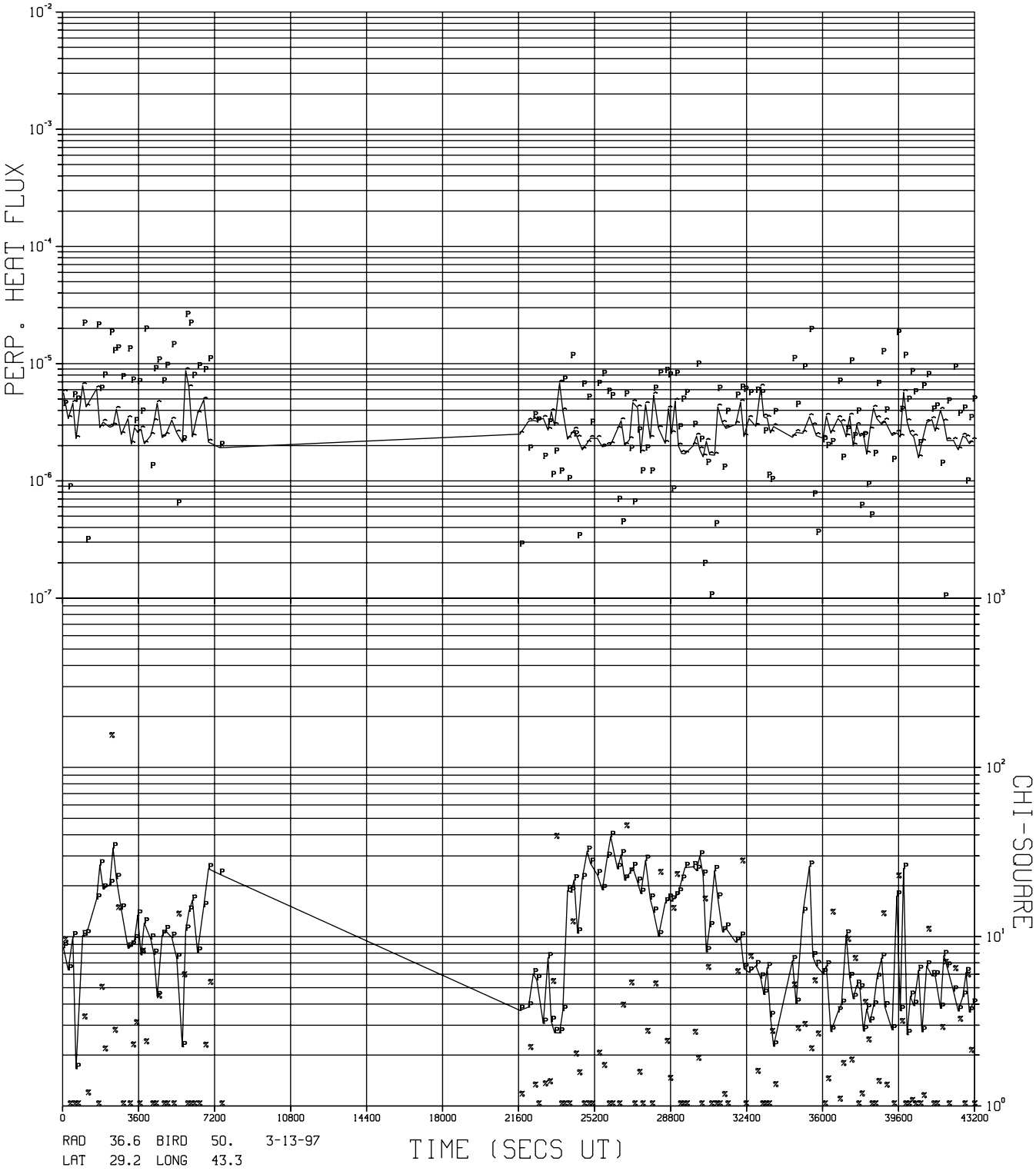

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

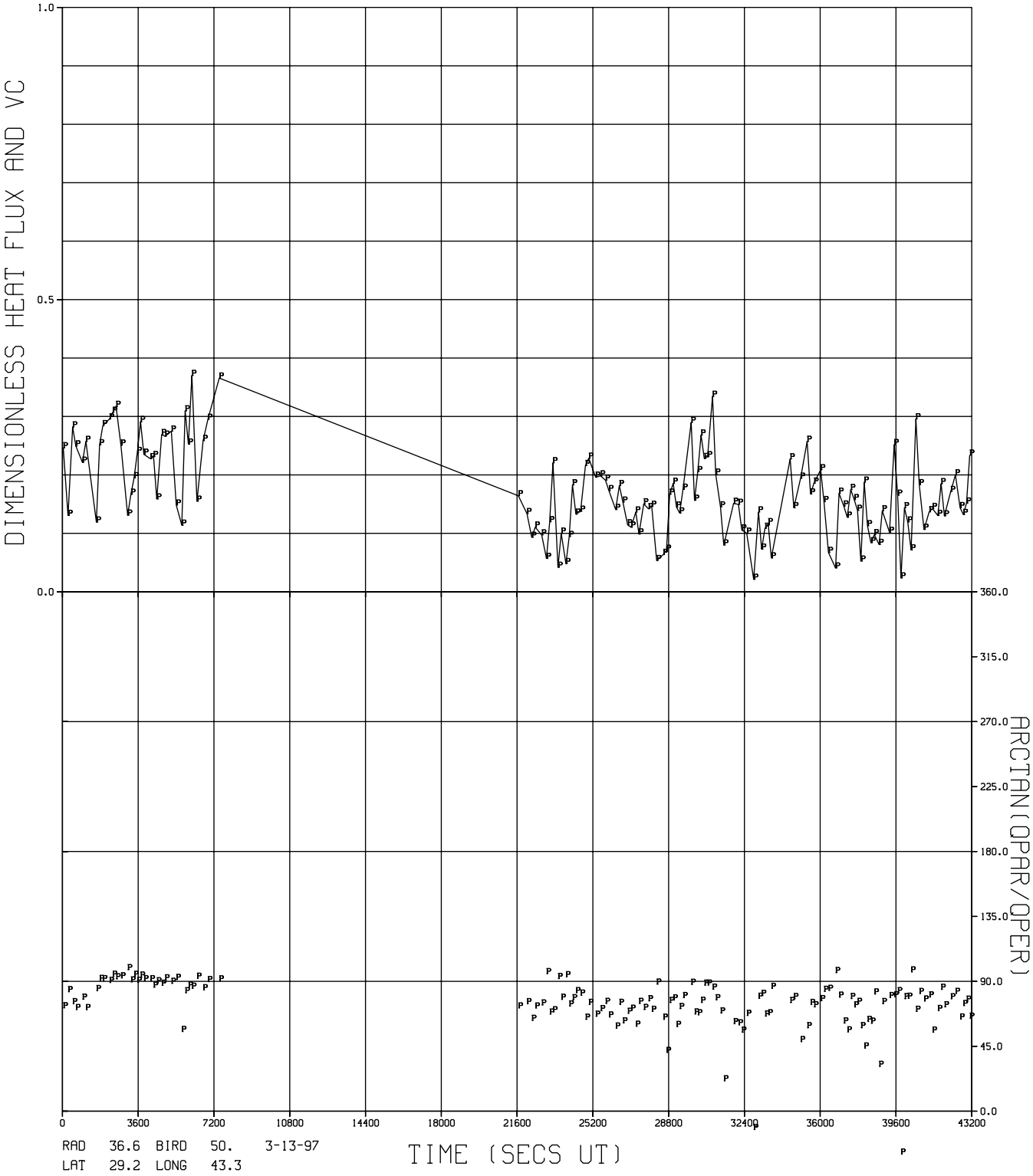

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

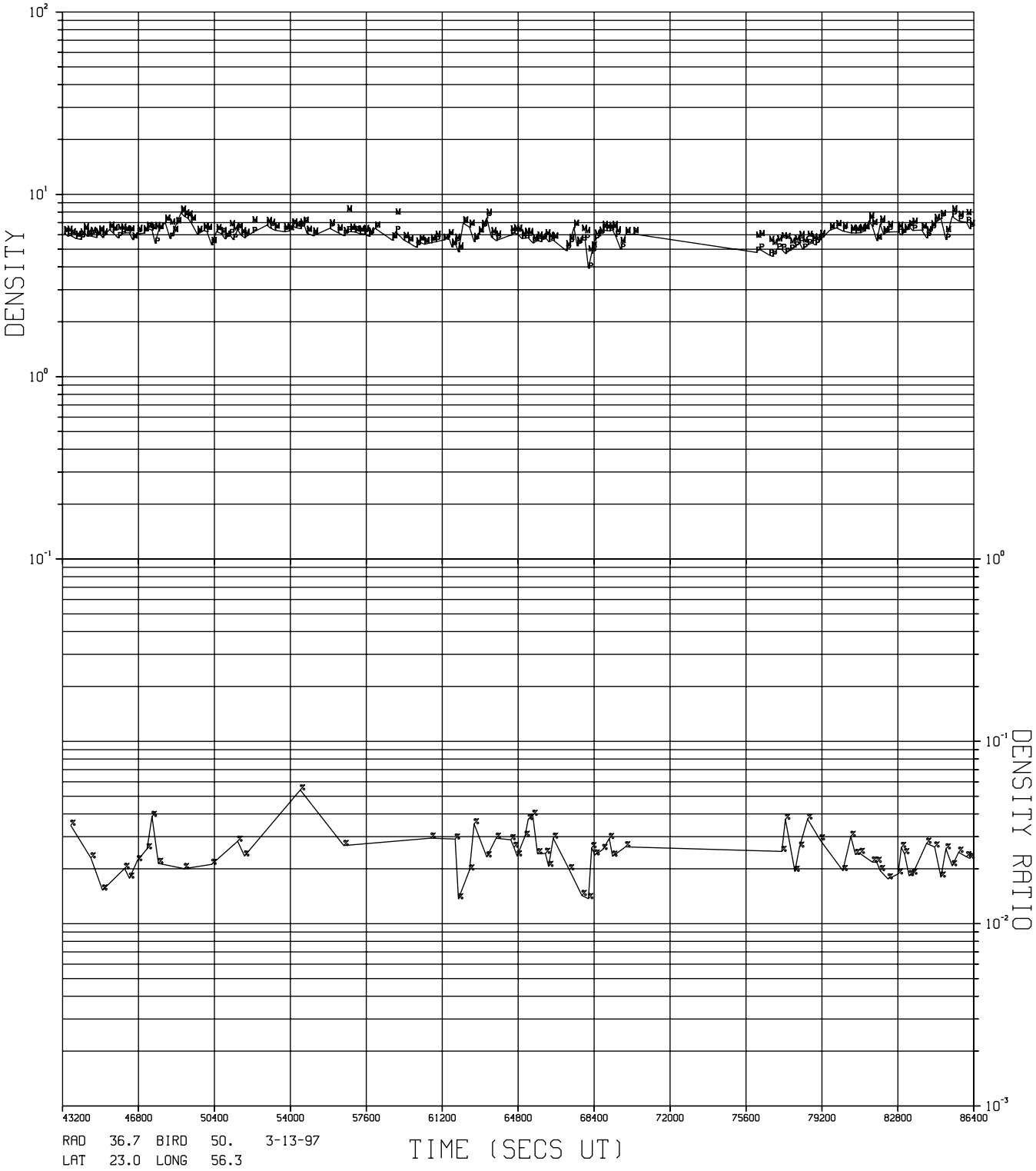

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

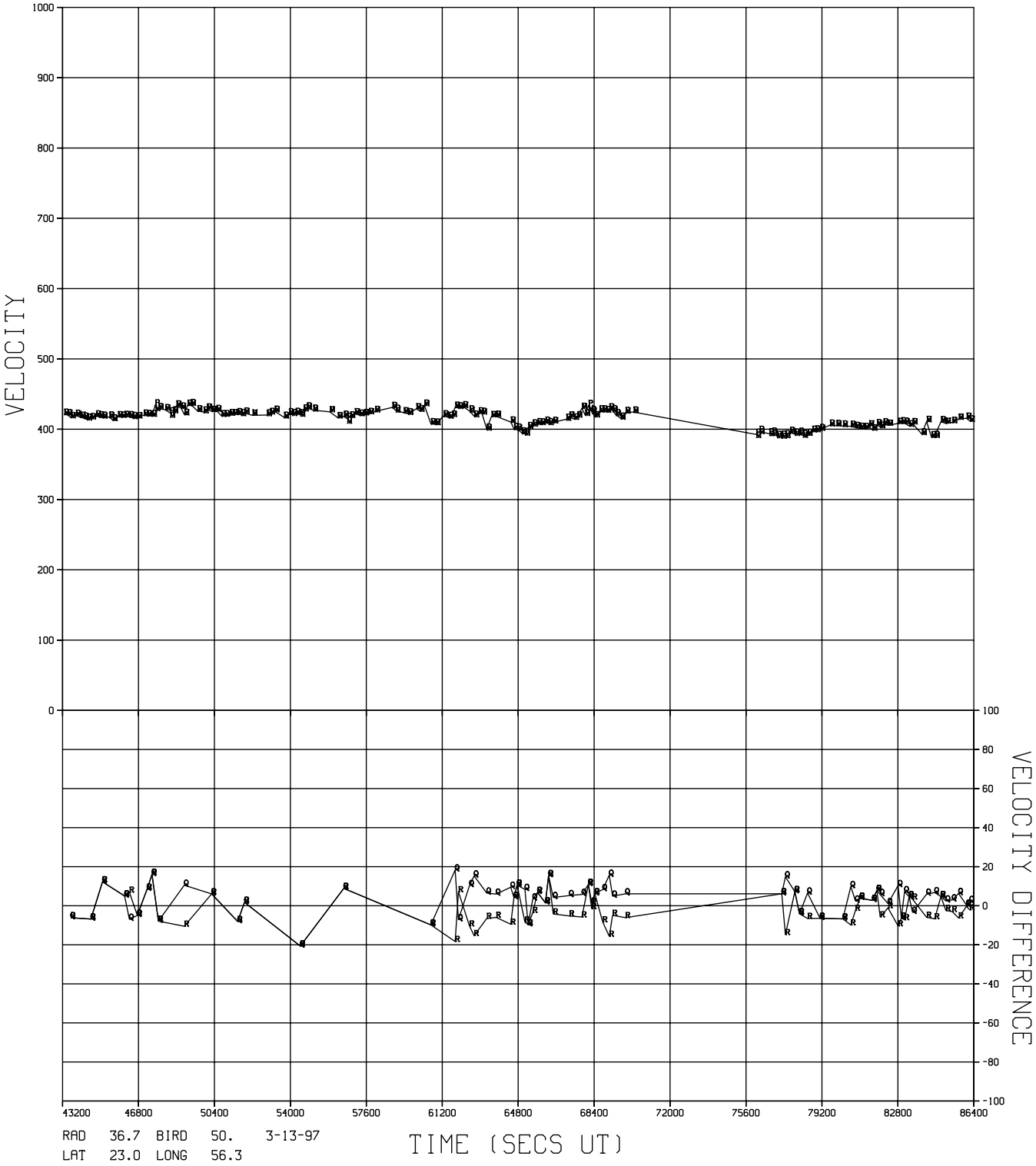

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

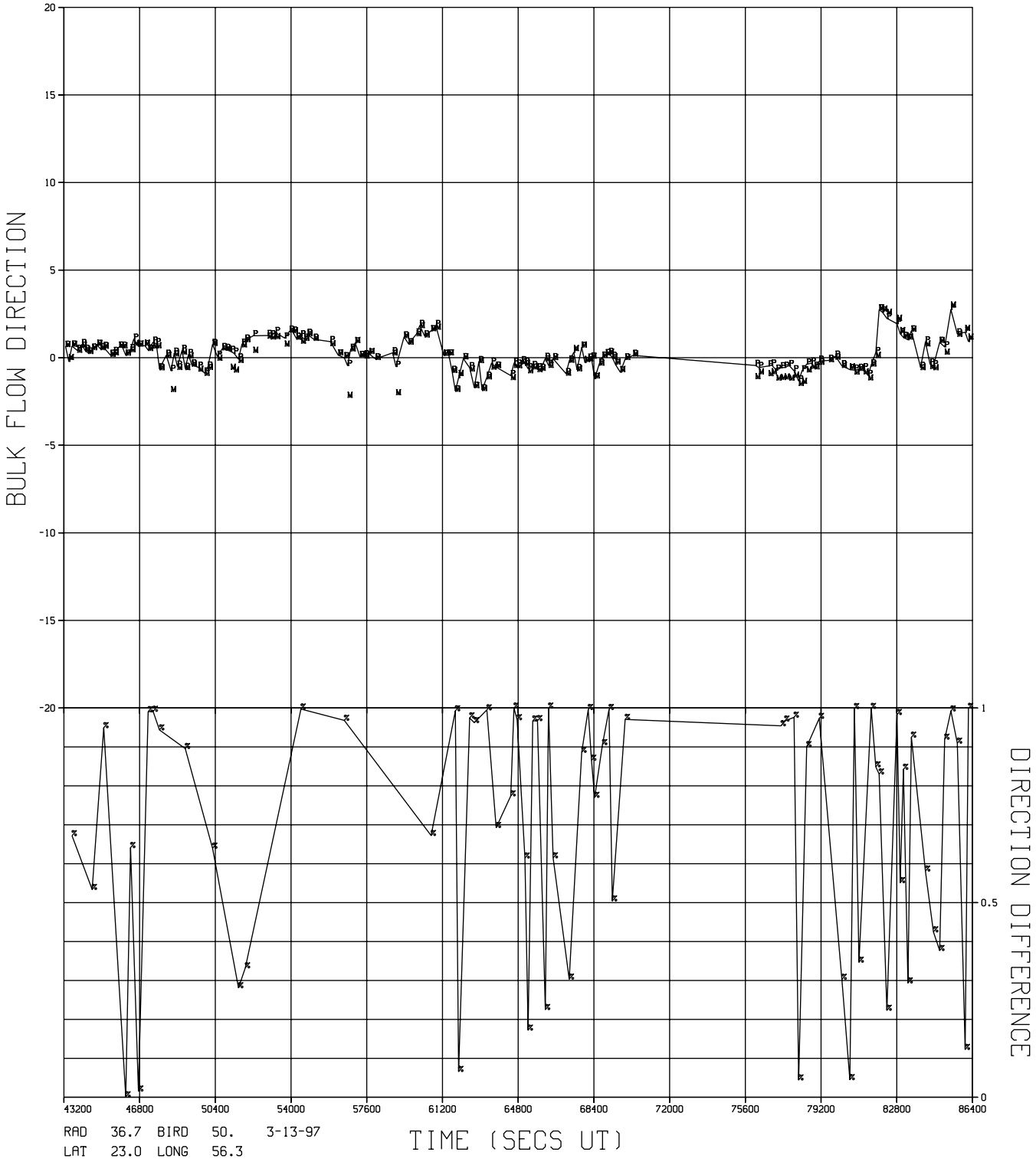

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

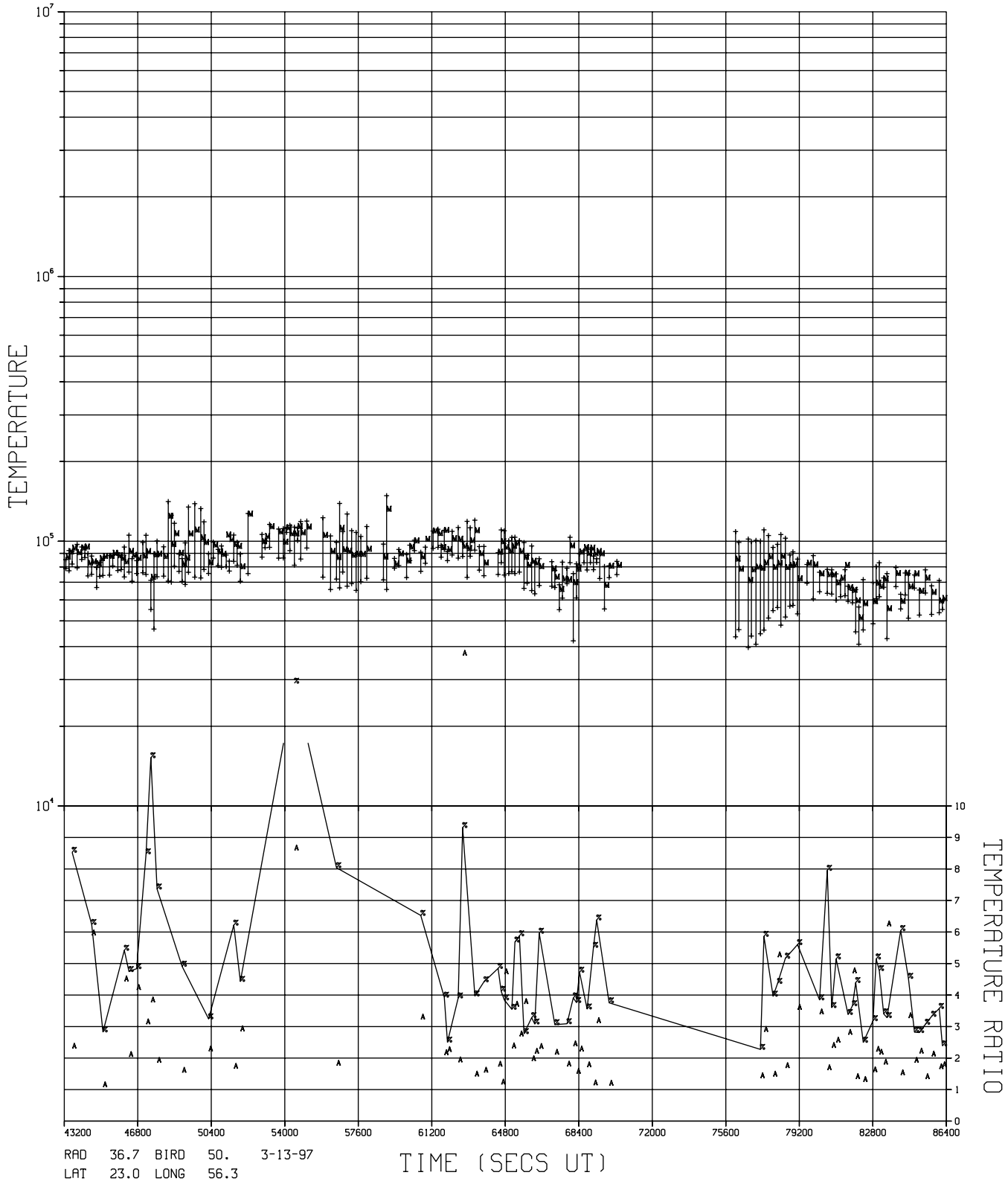

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

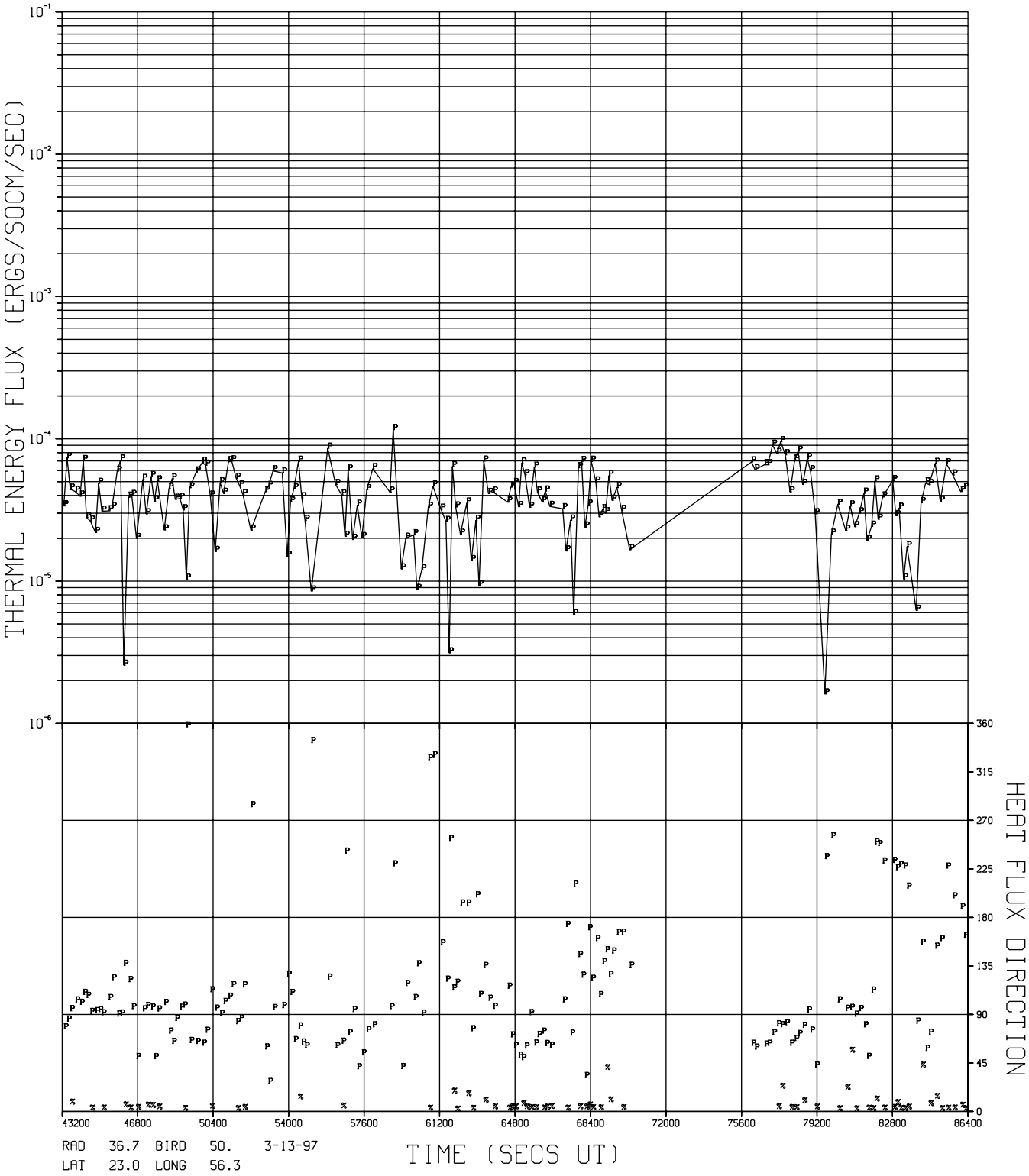

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-13-97
LAT 29.2 LONG 43.3

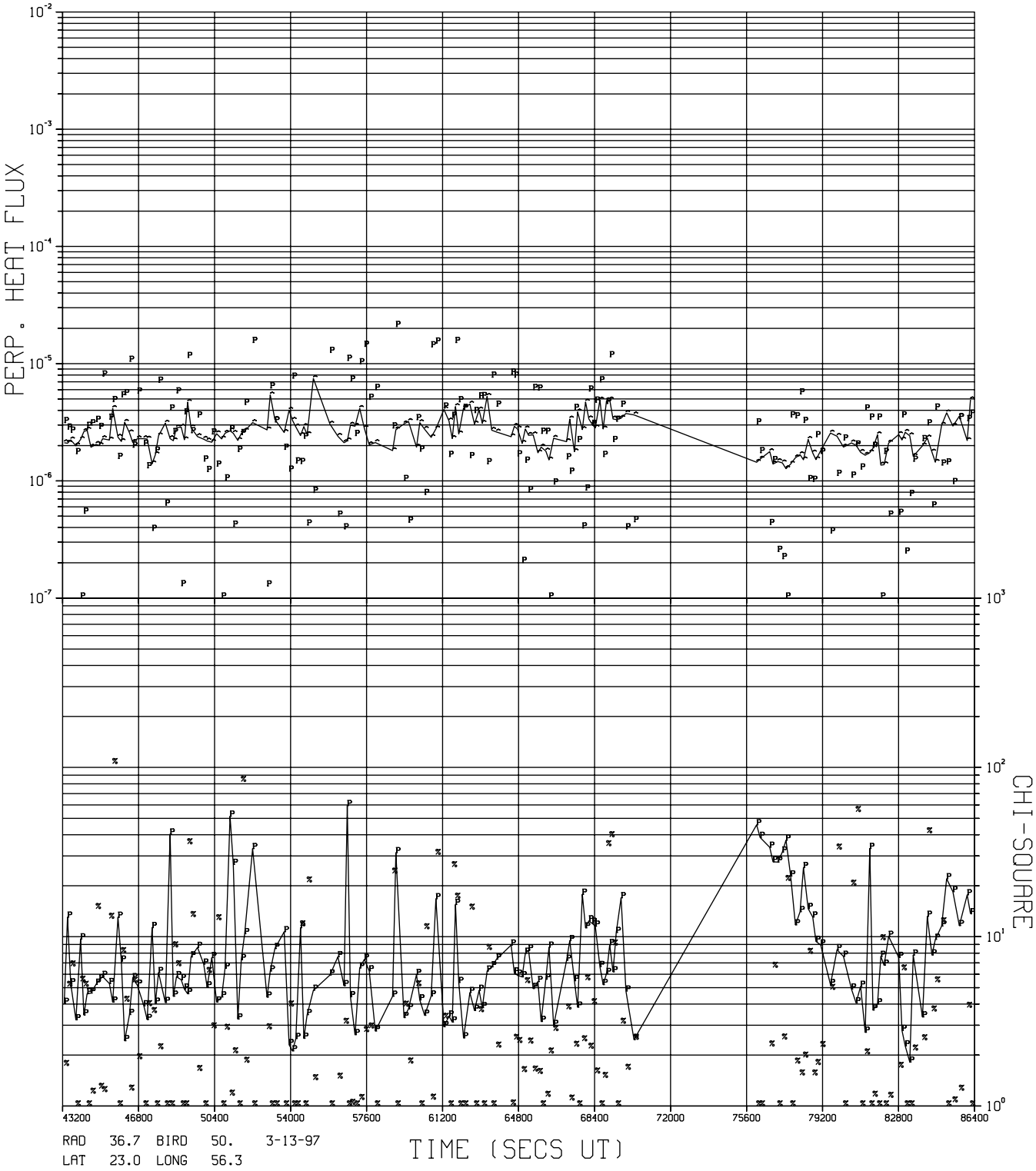

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

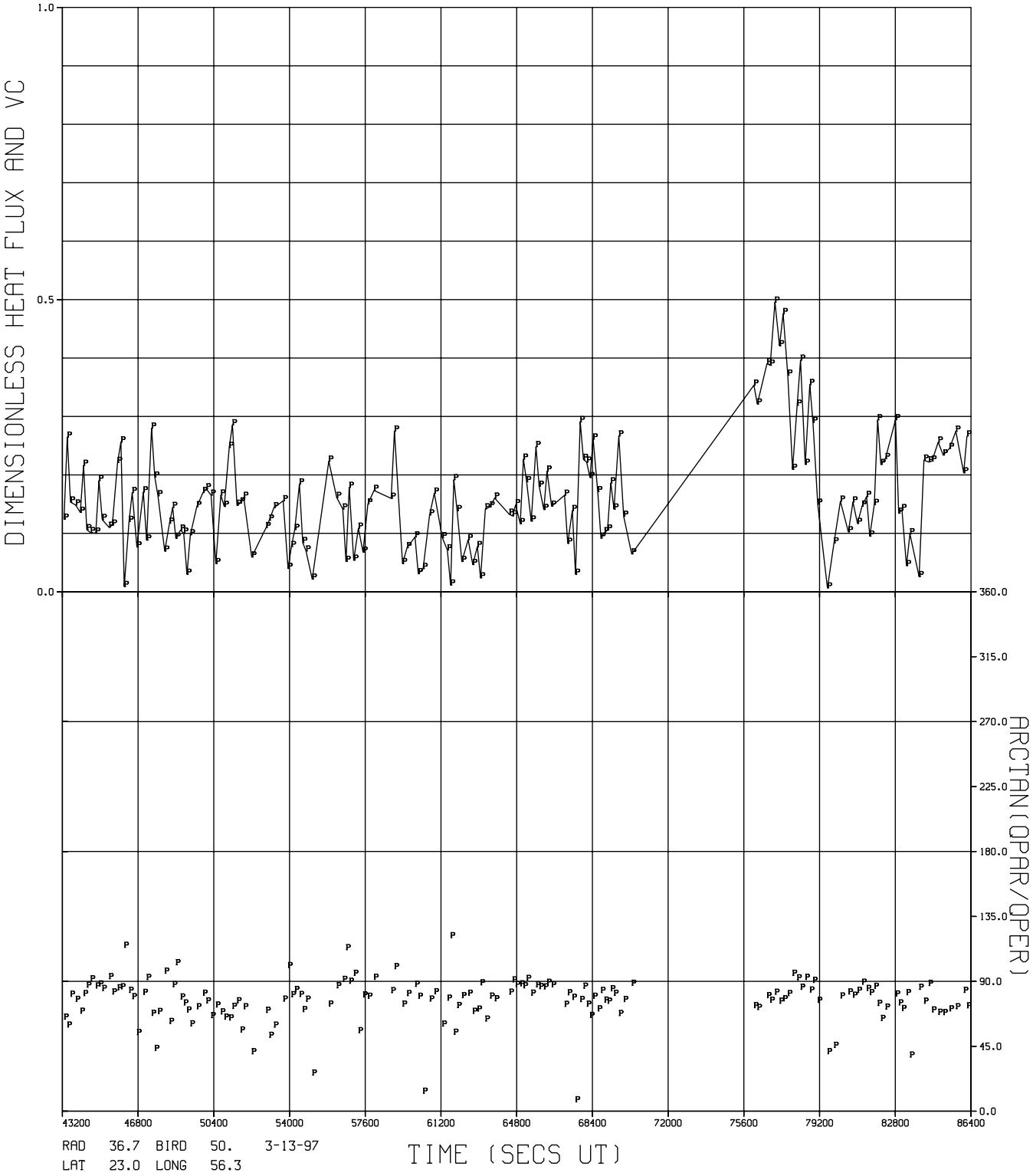

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3
TIME (SECS UT)

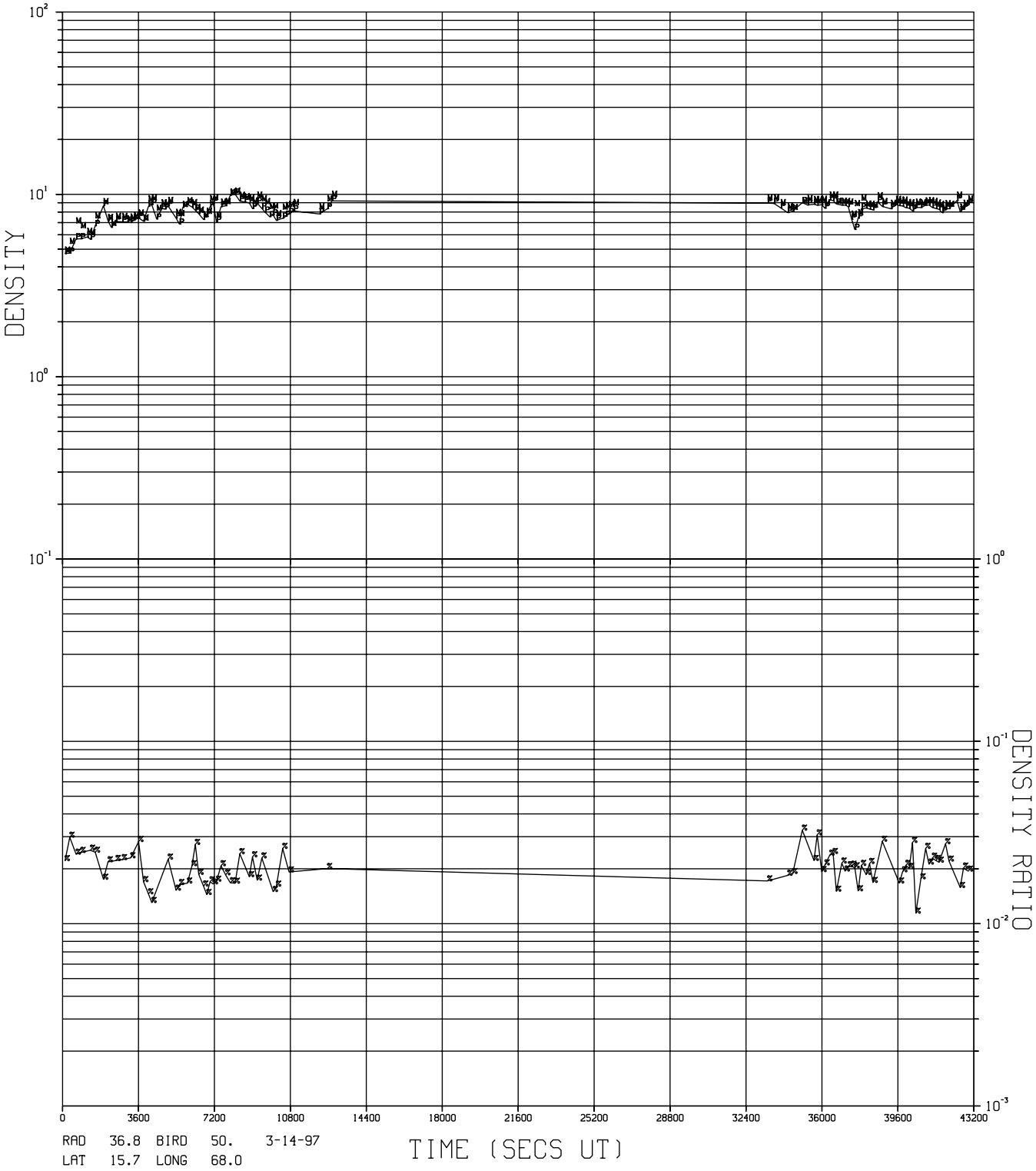

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

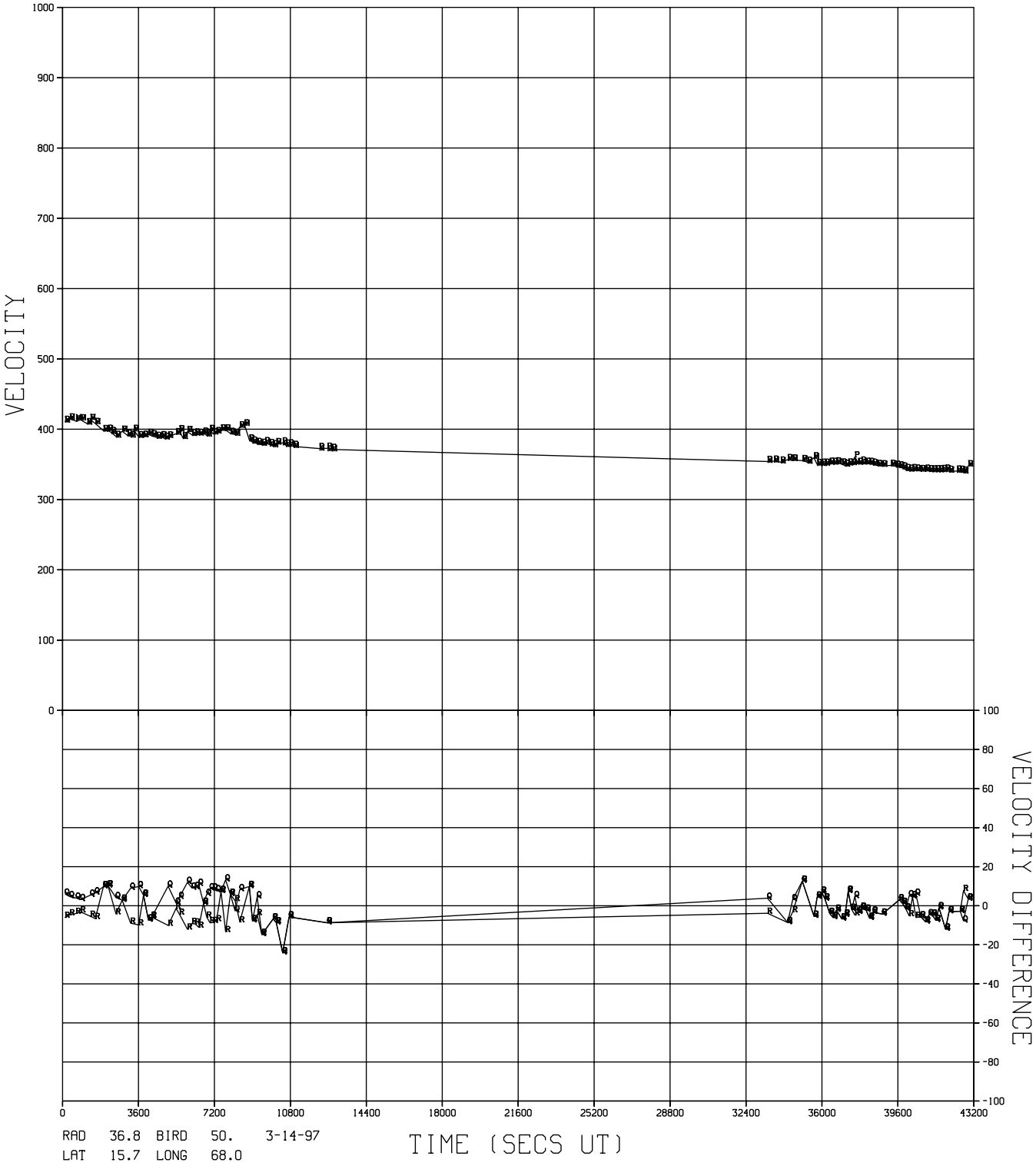

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

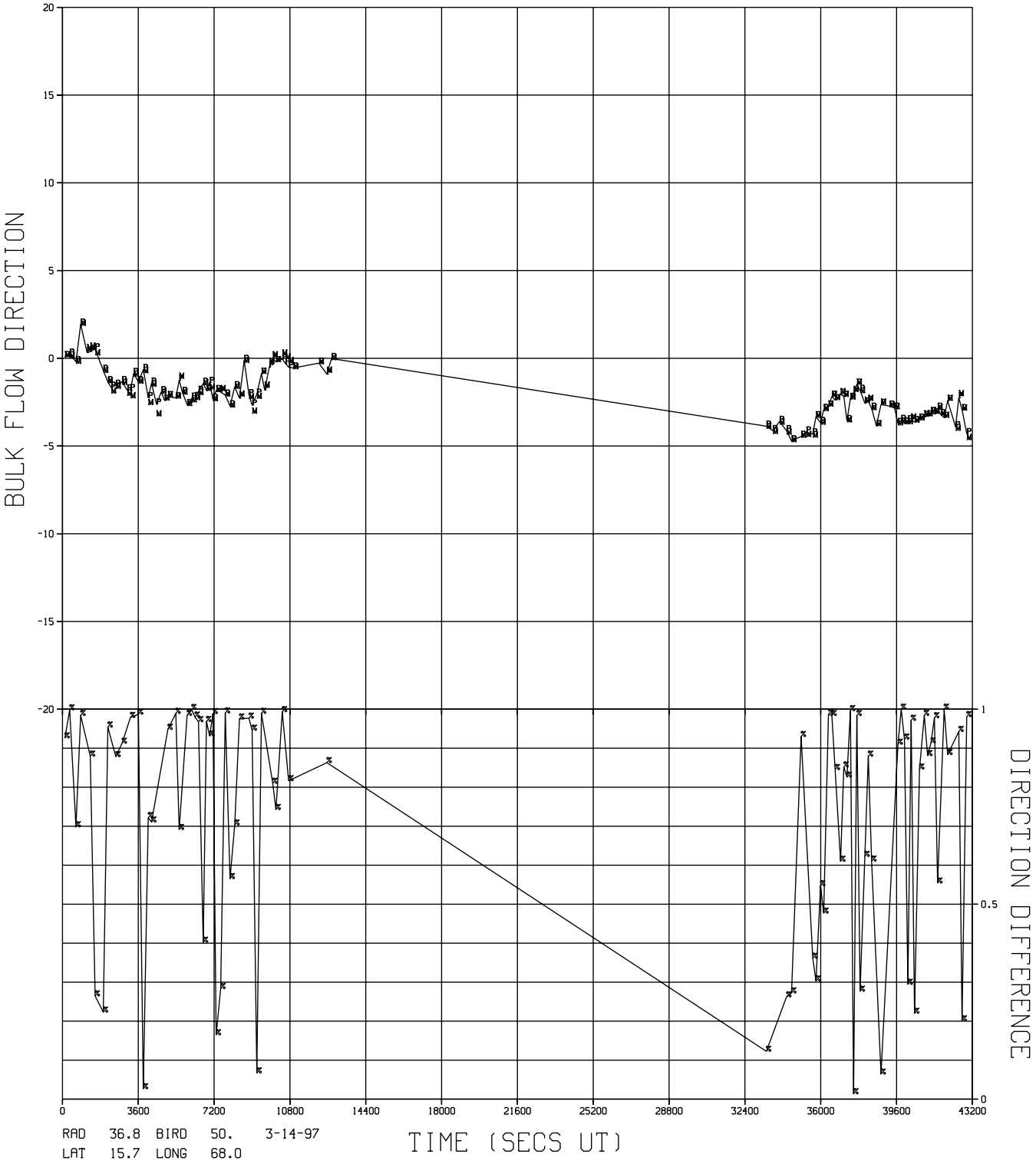

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

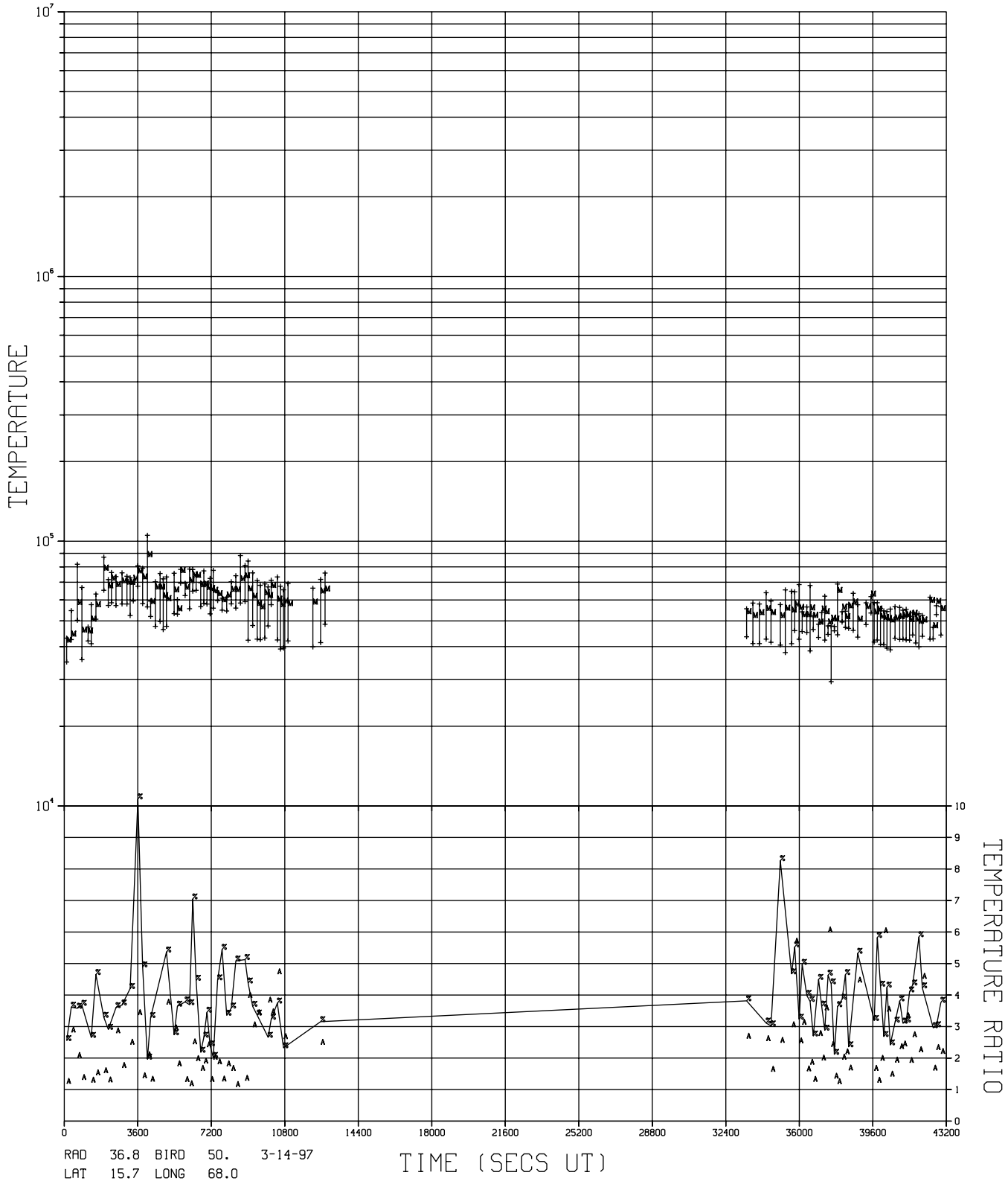

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

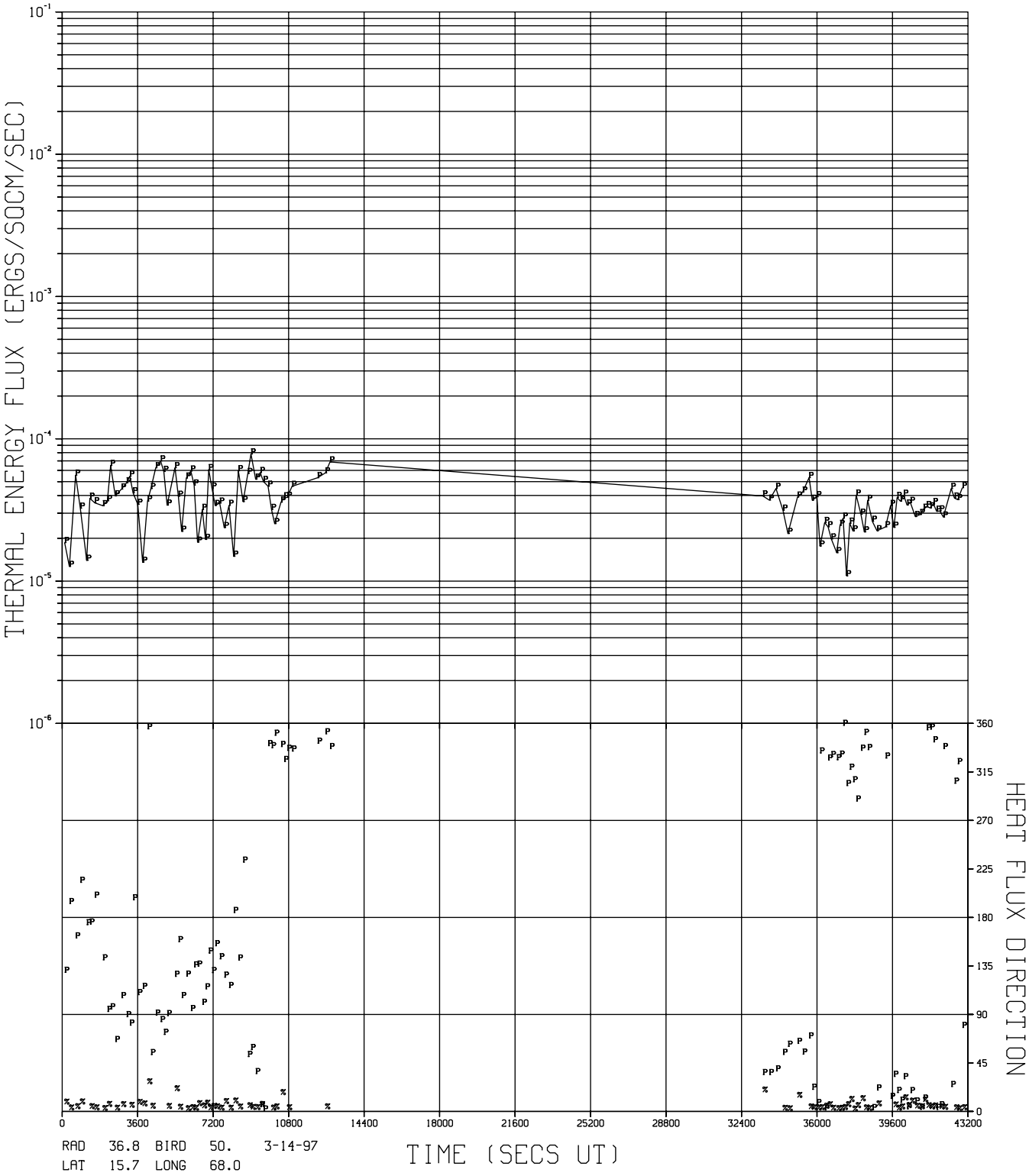

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-13-97
LAT 23.0 LONG 56.3

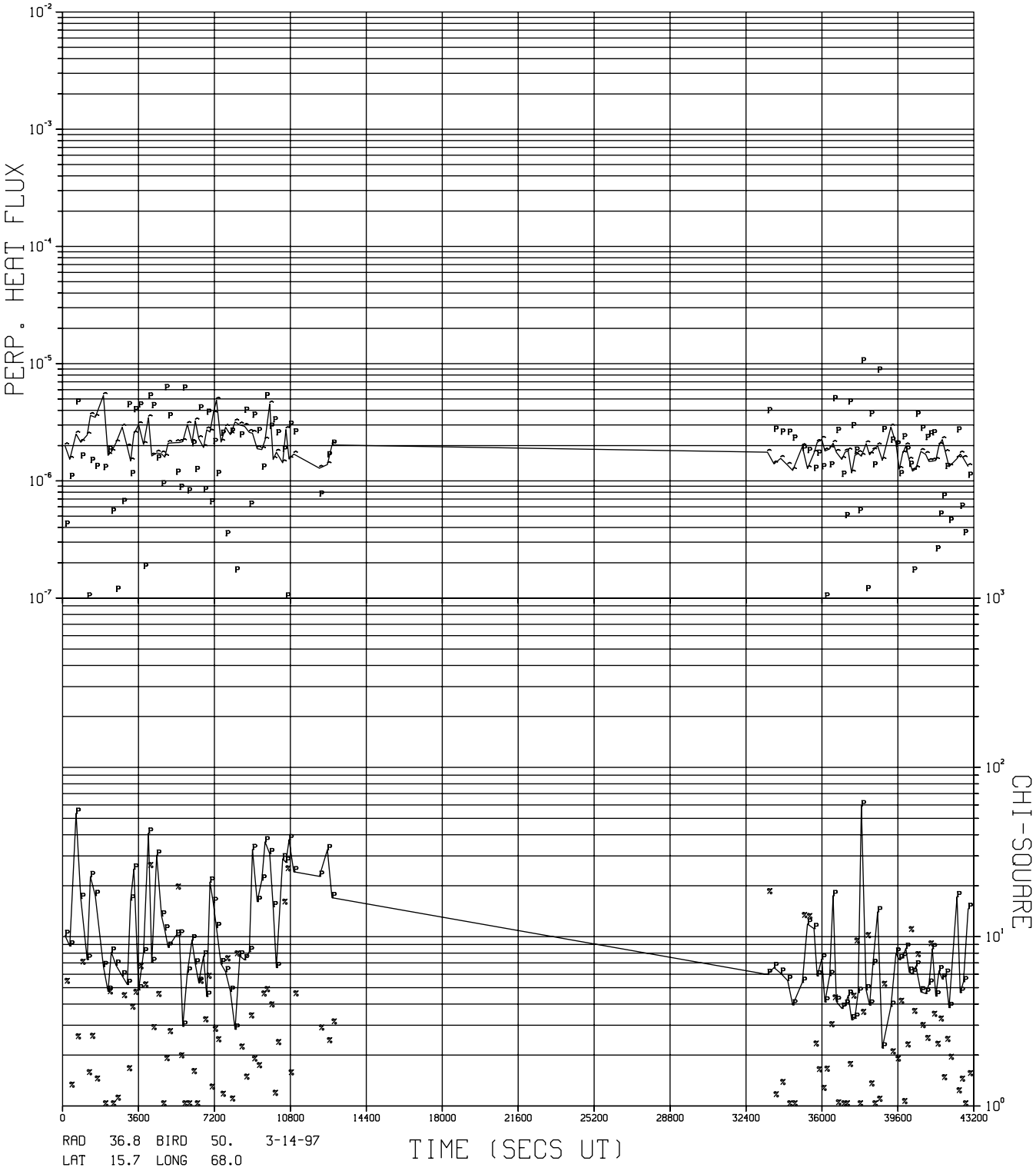

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

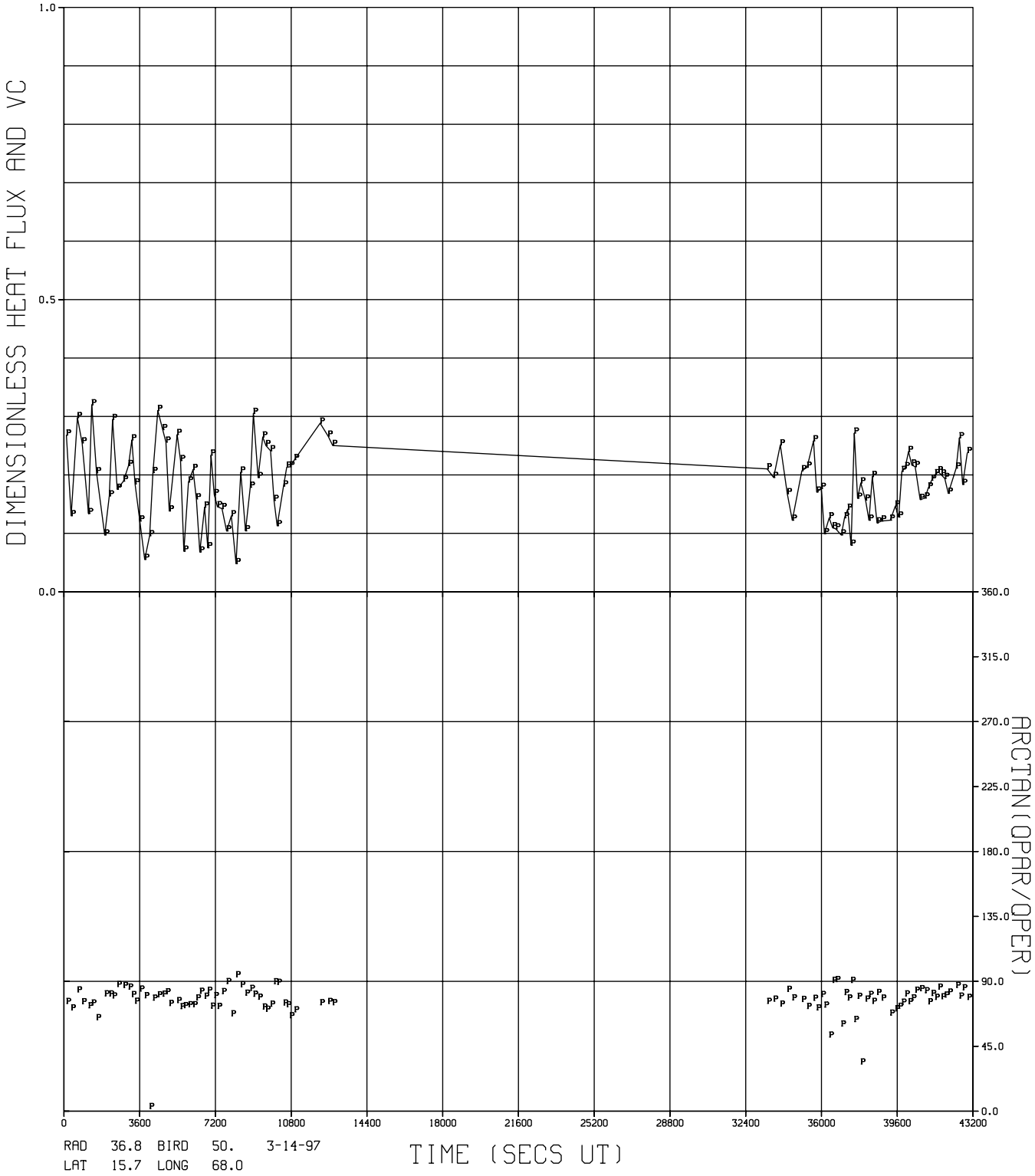

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

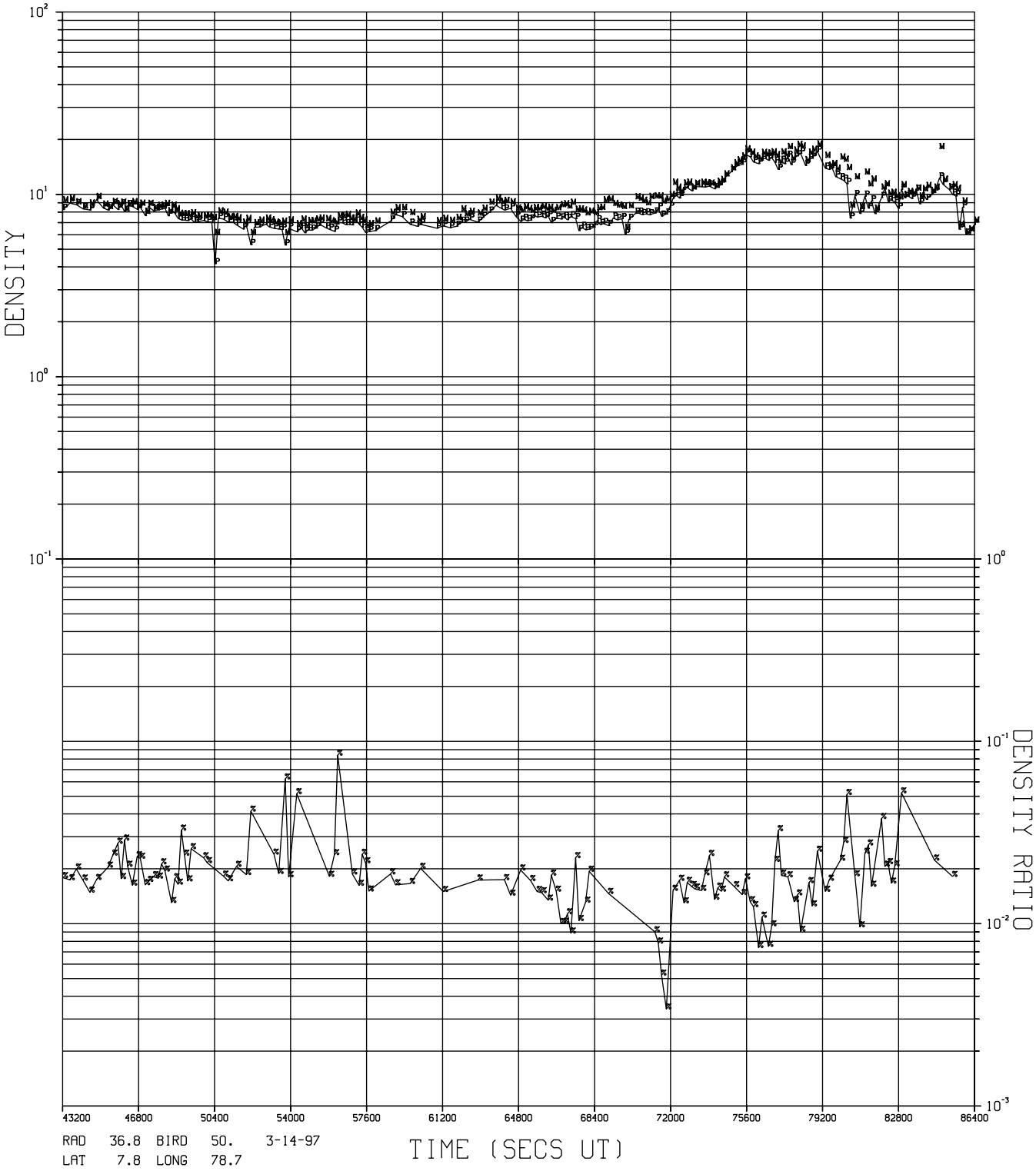

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

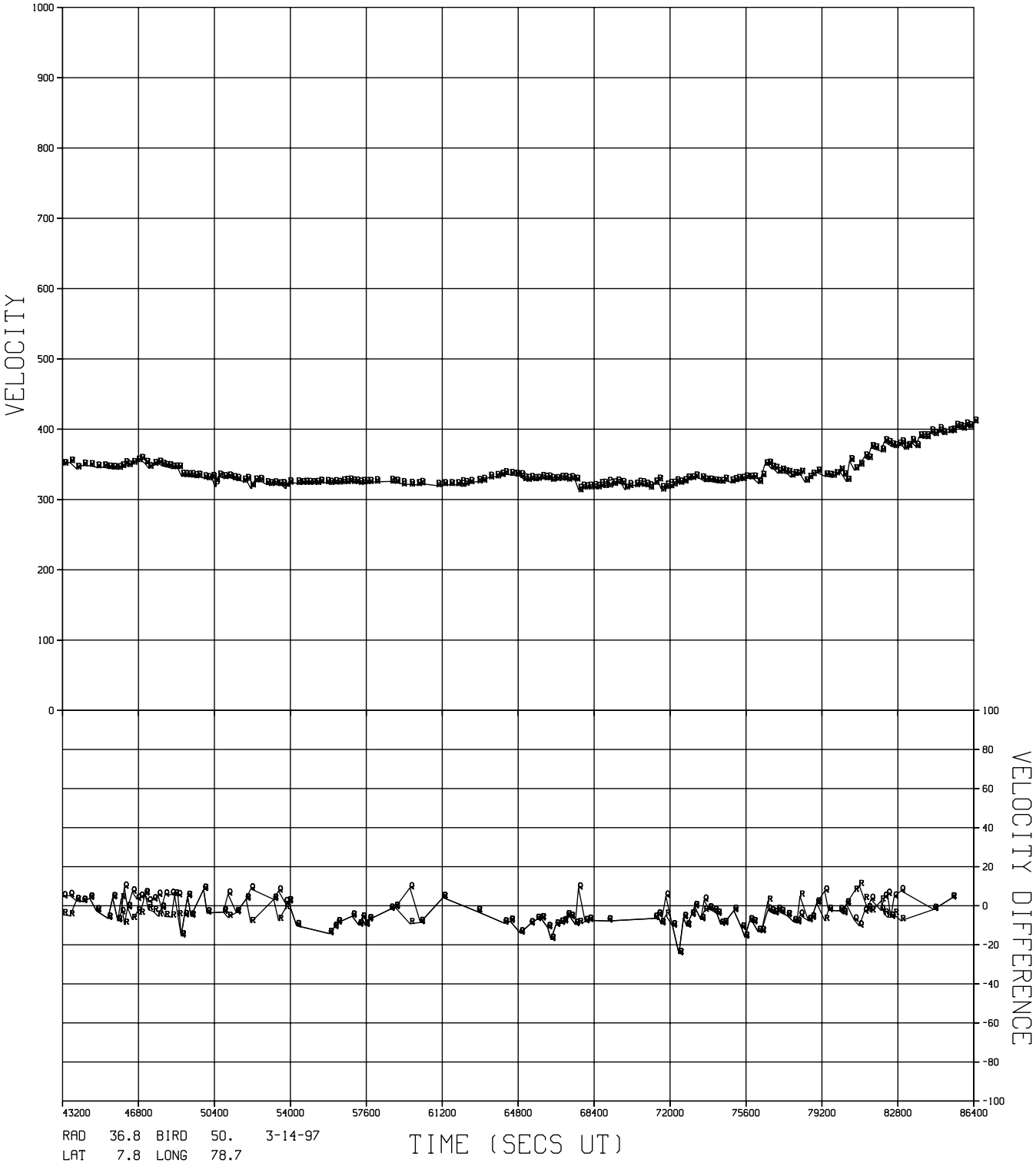

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

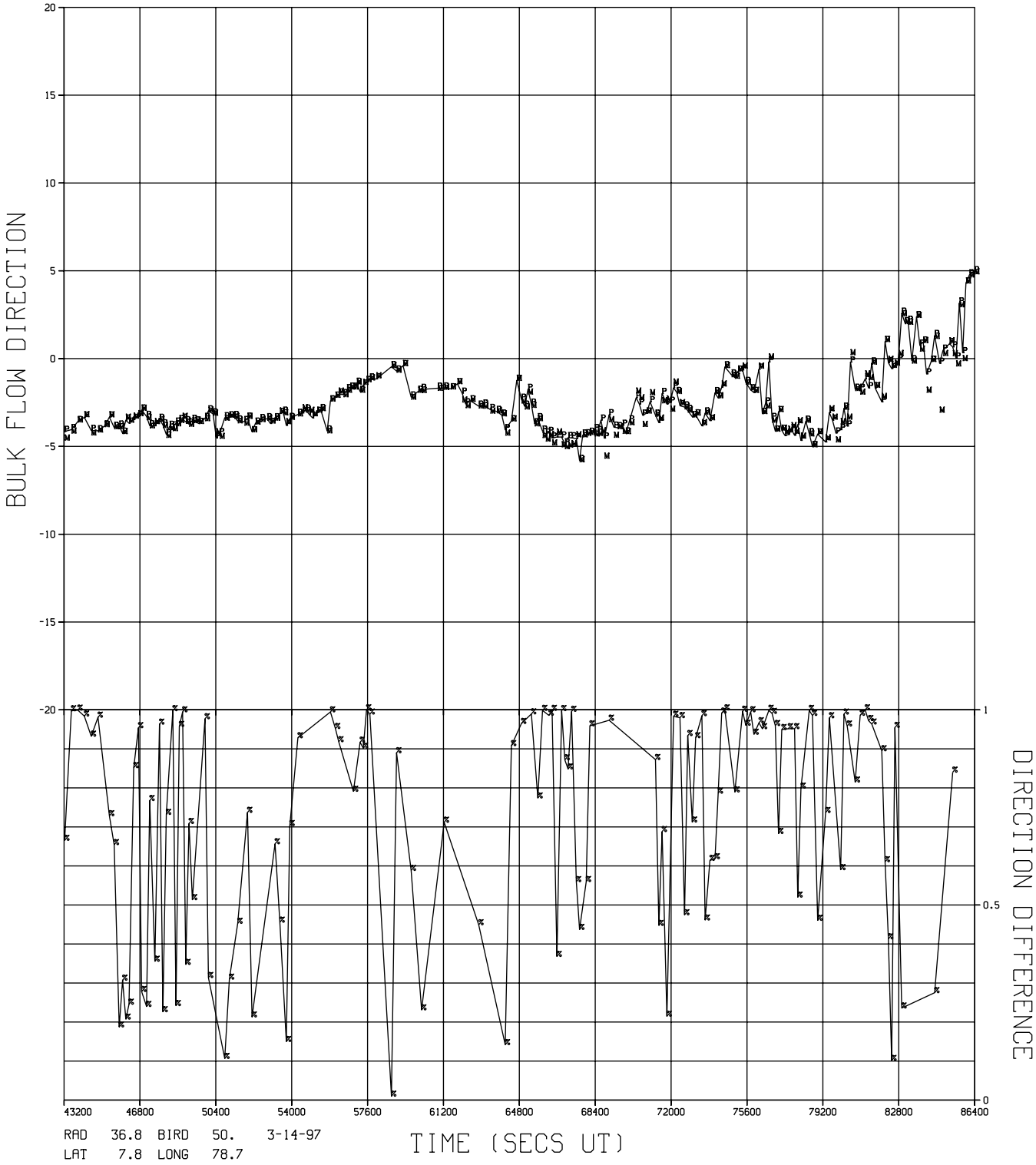

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

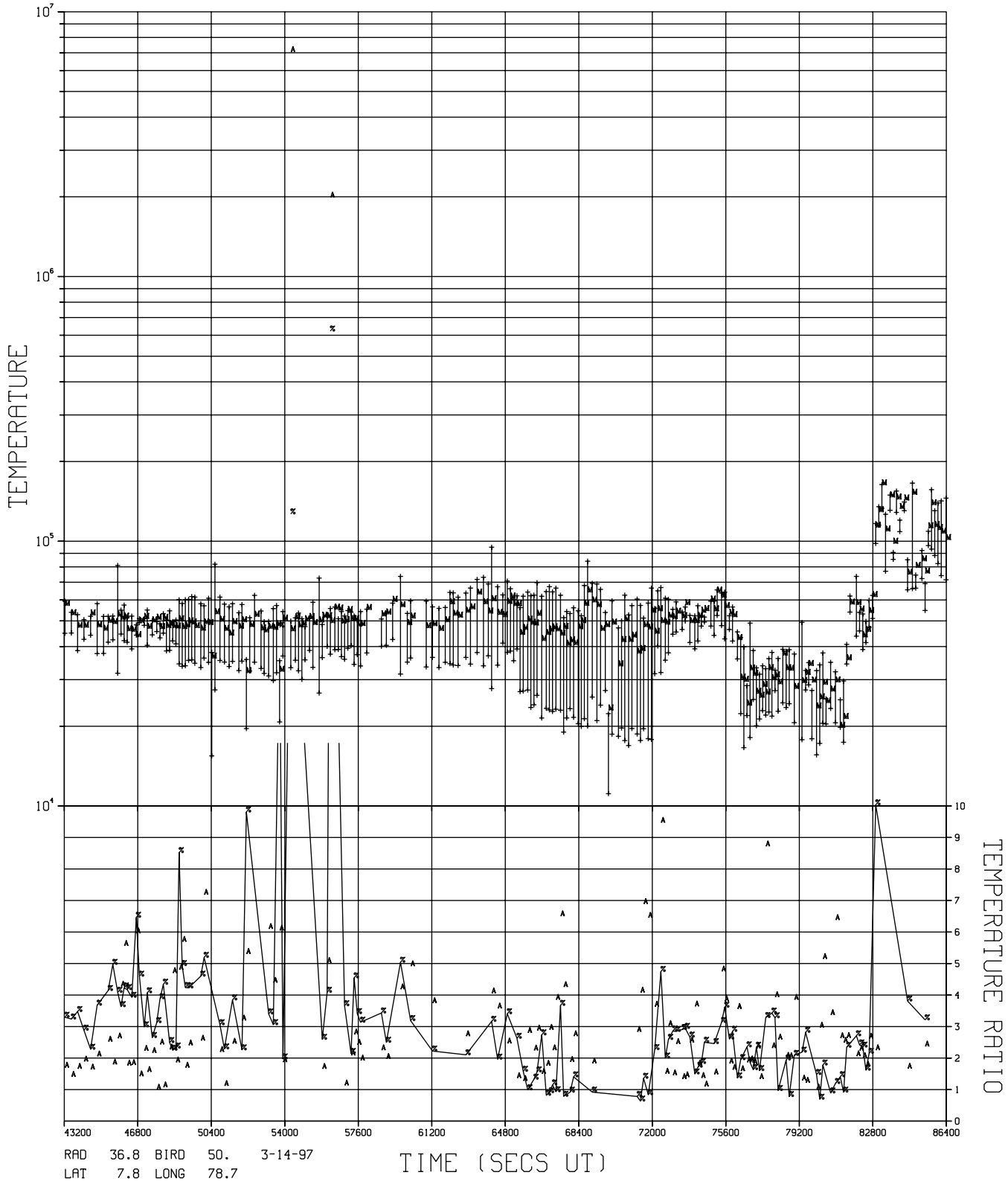

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

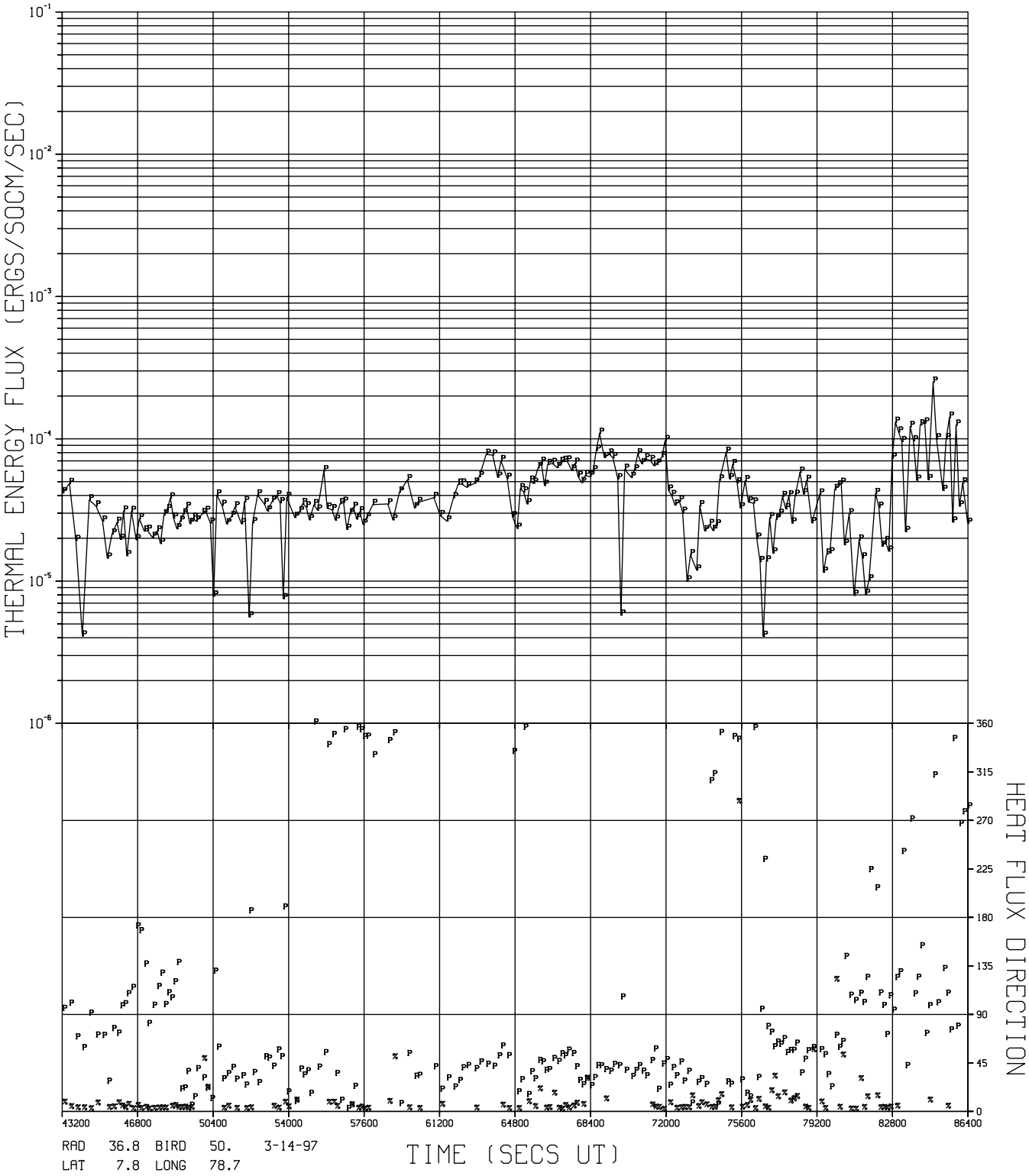

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 15.7 LONG 68.0

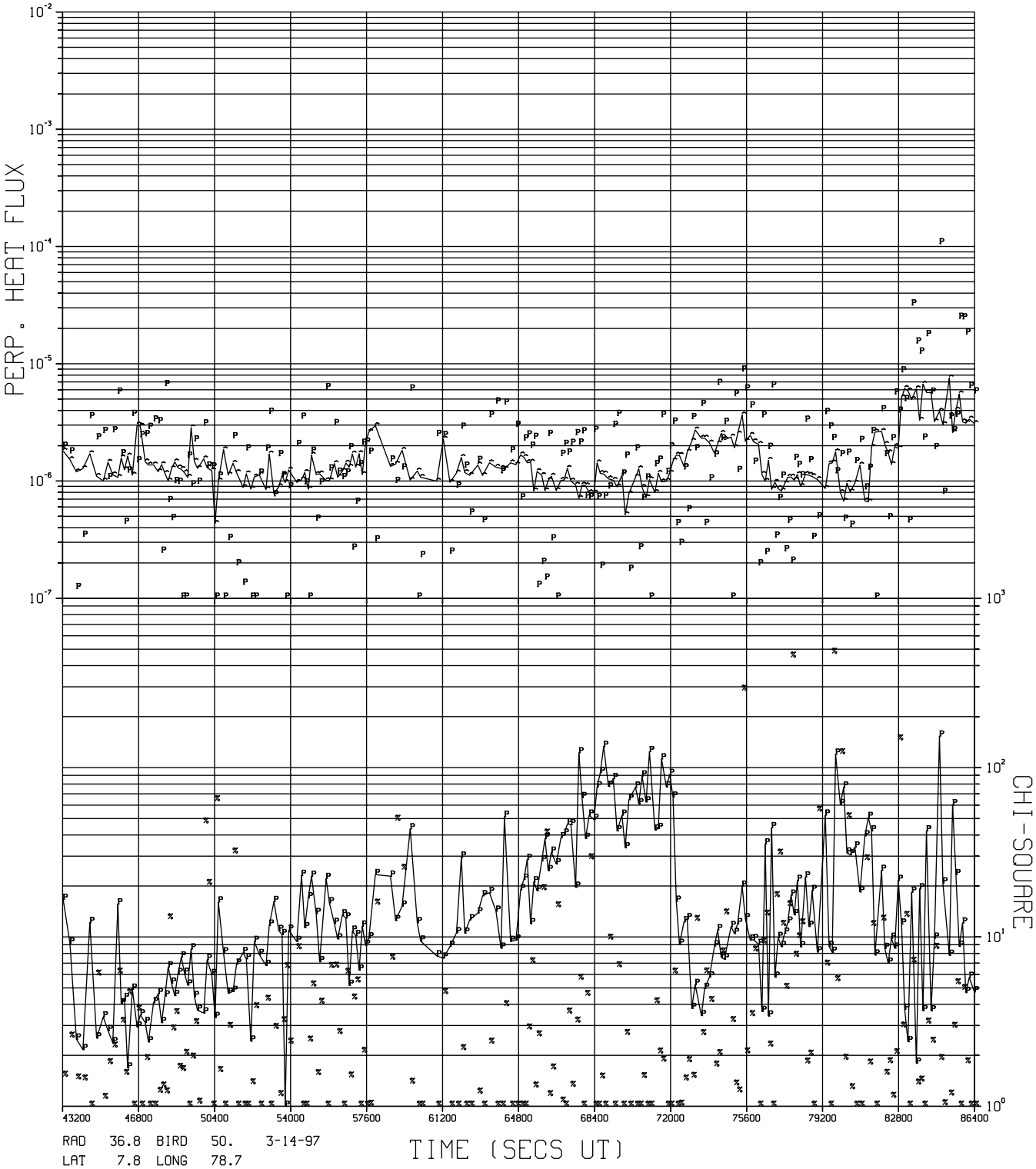

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

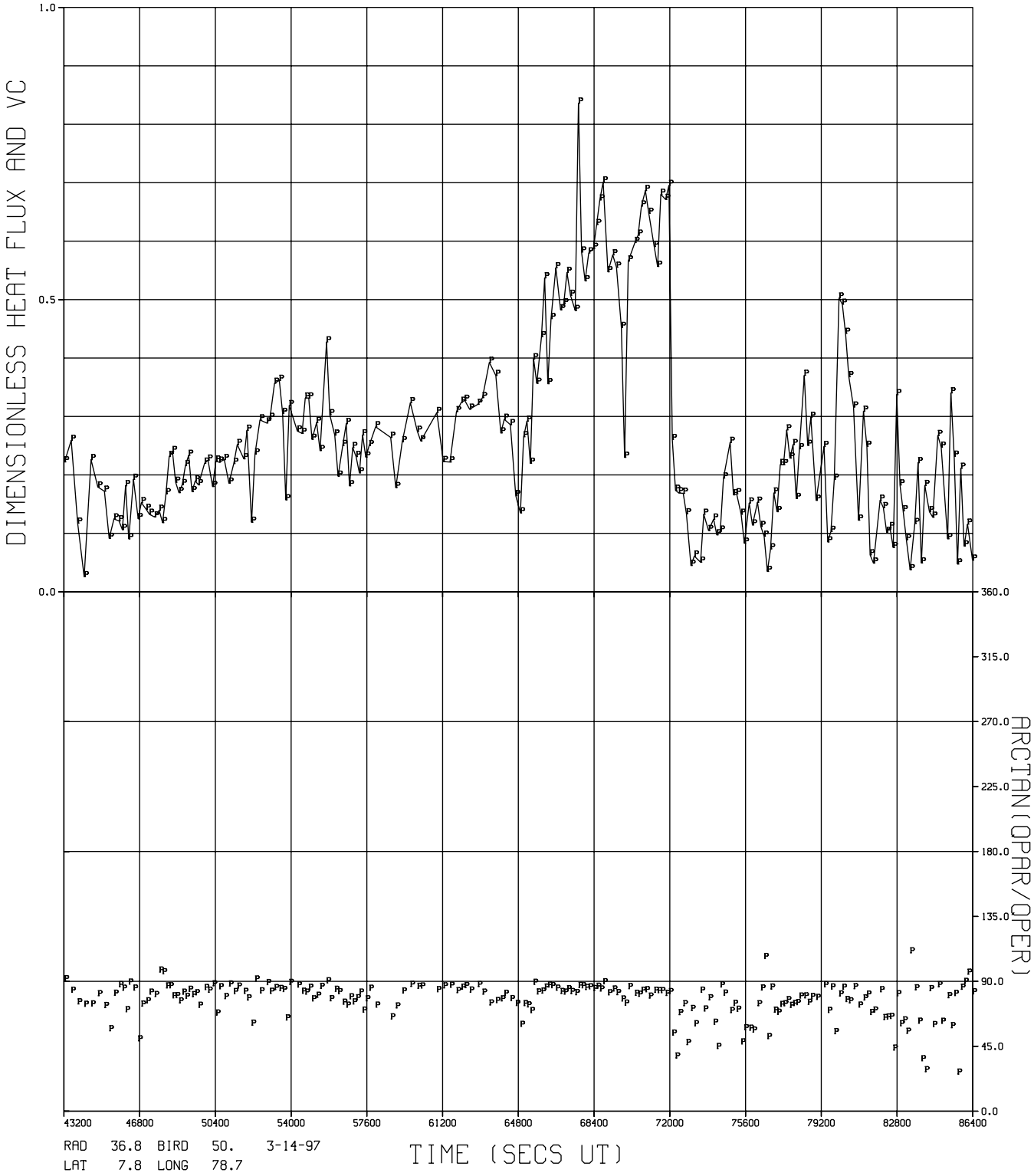

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7
TIME (SECS UT)


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 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

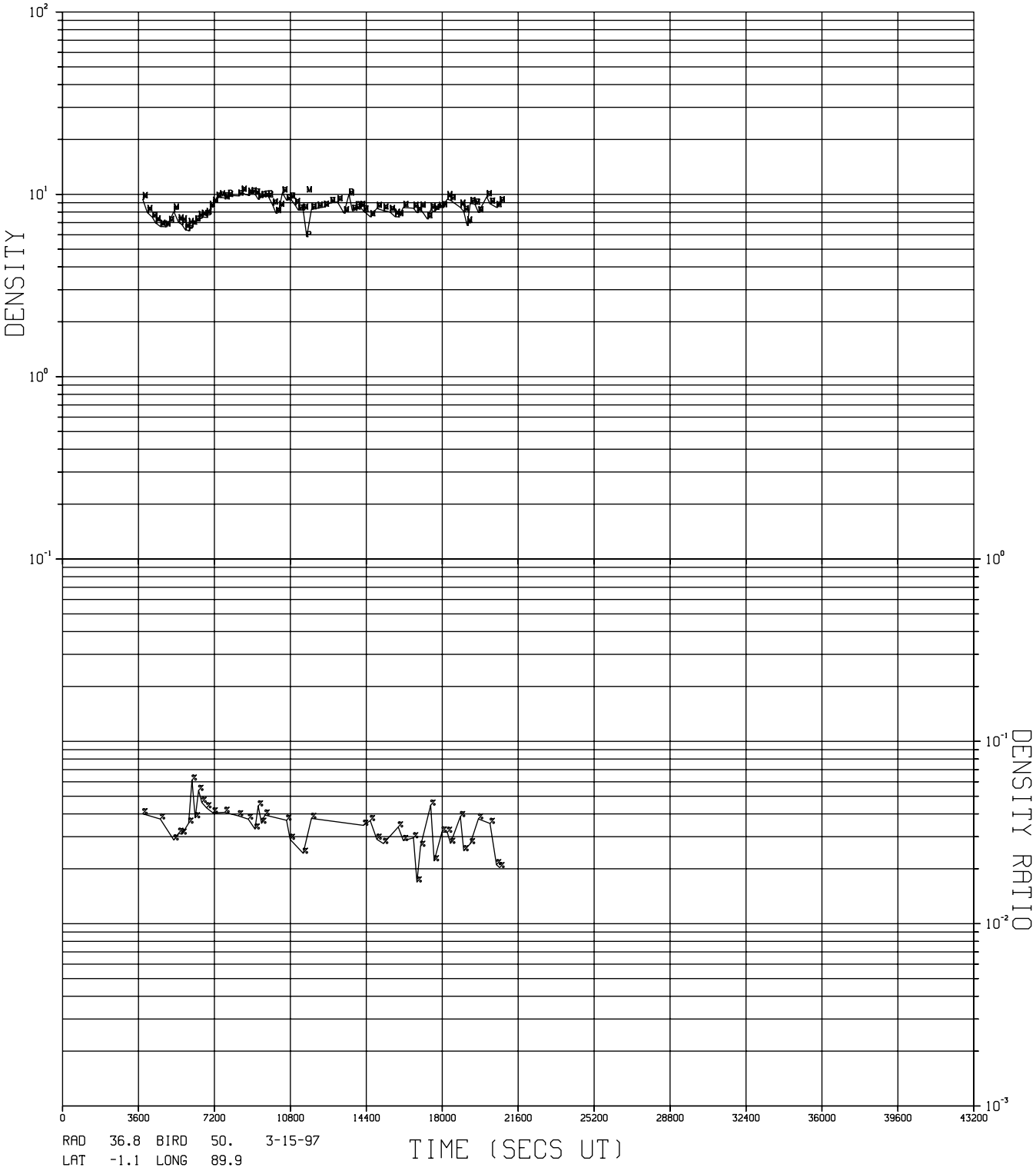

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

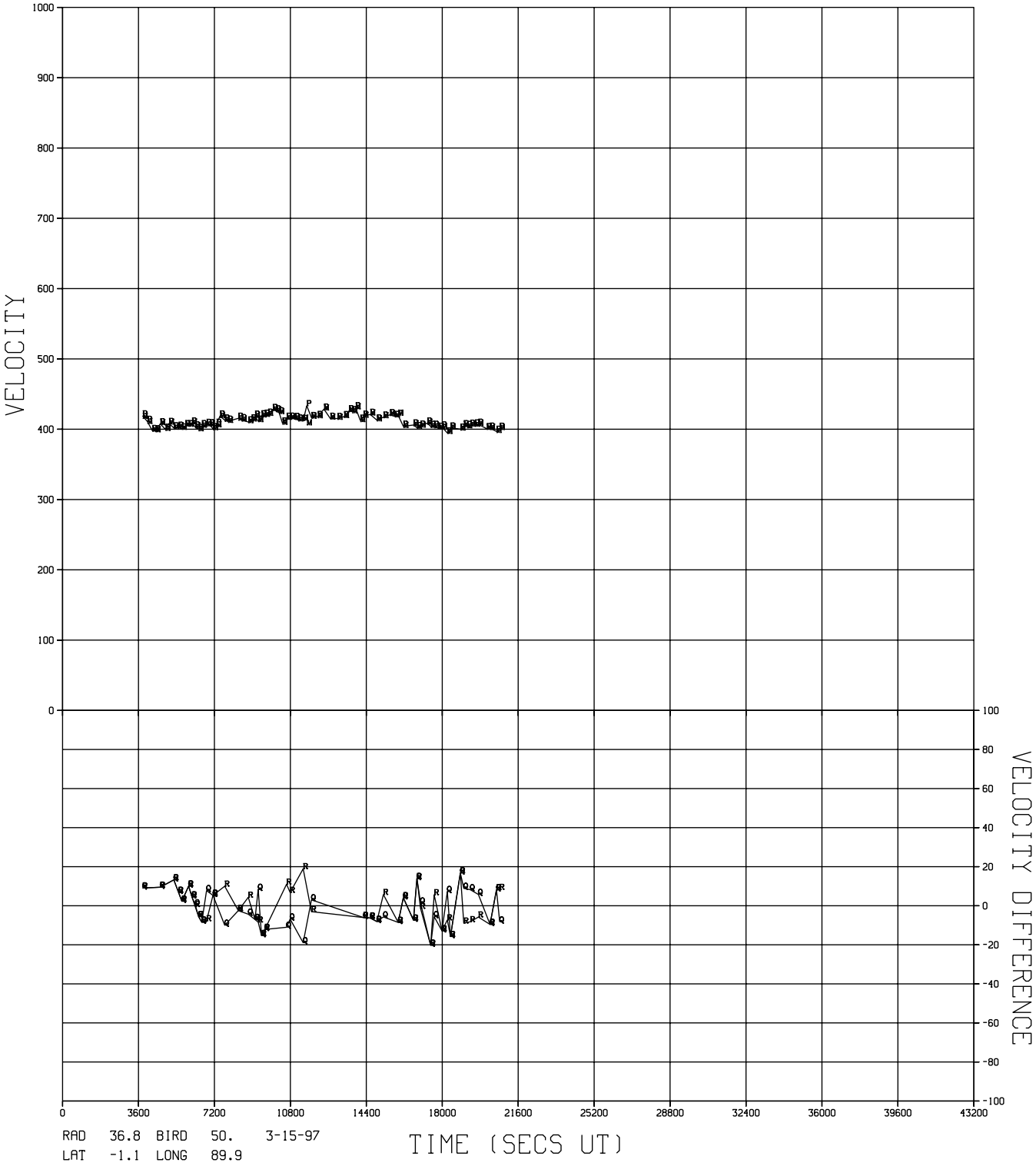

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

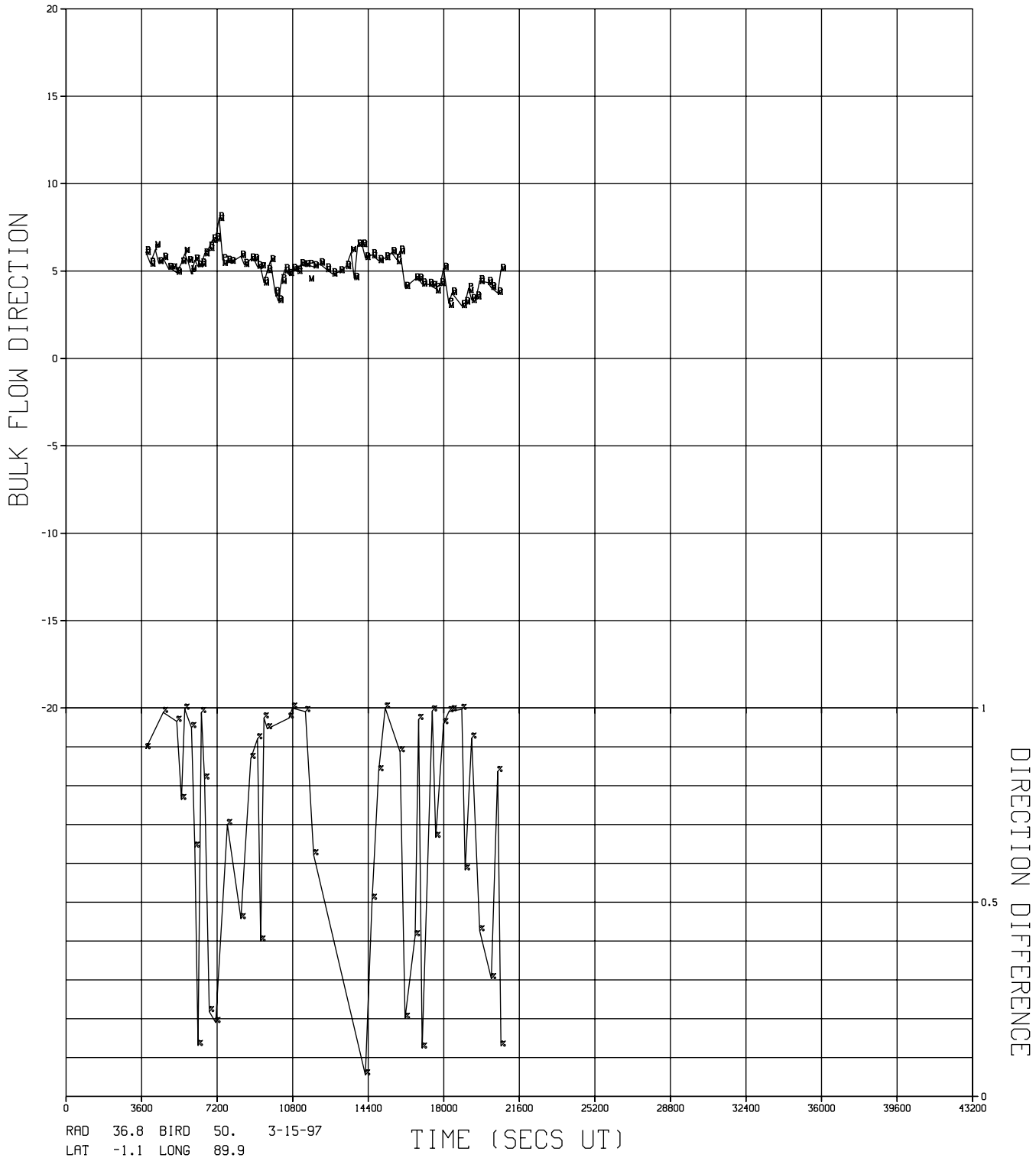

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

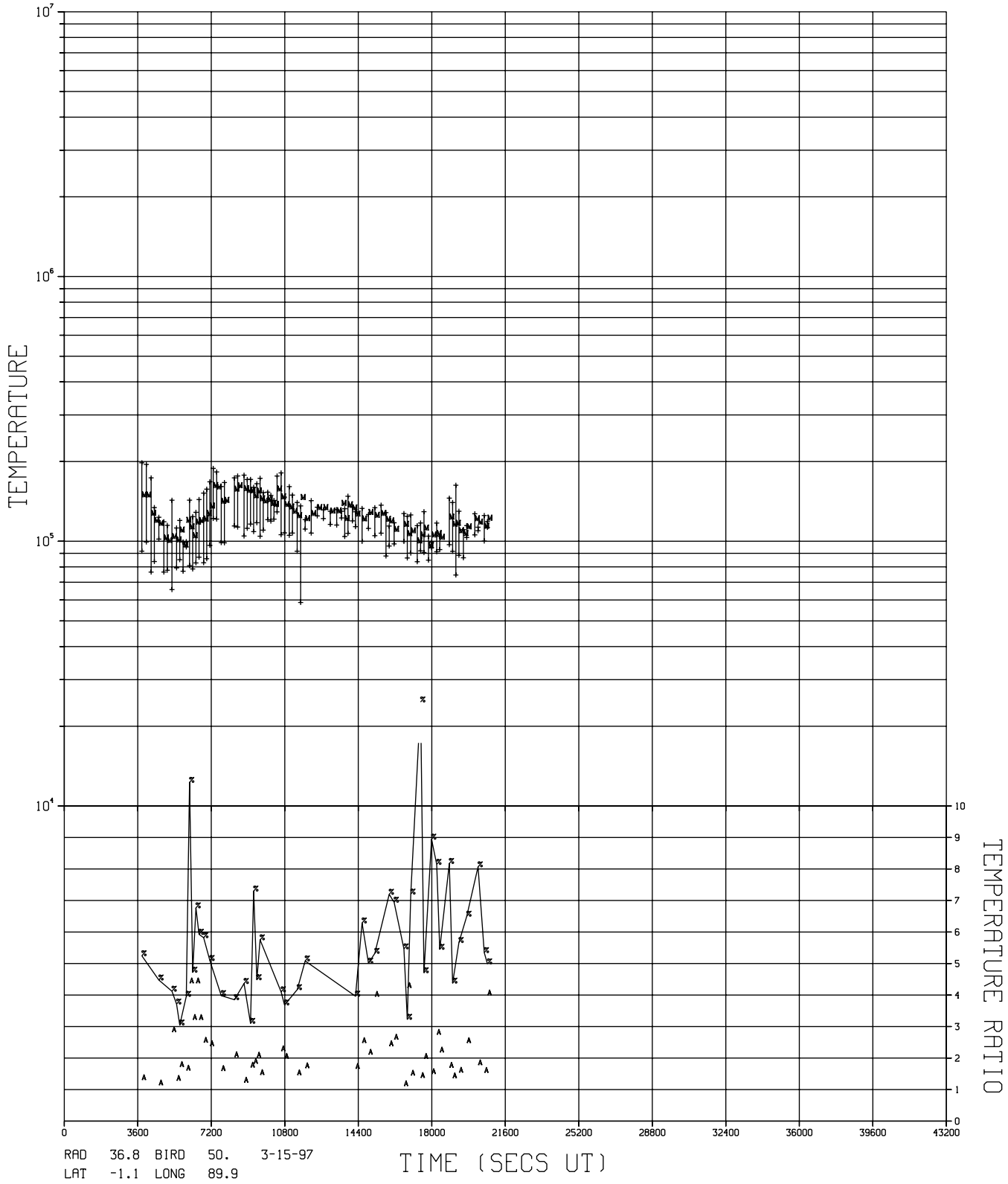


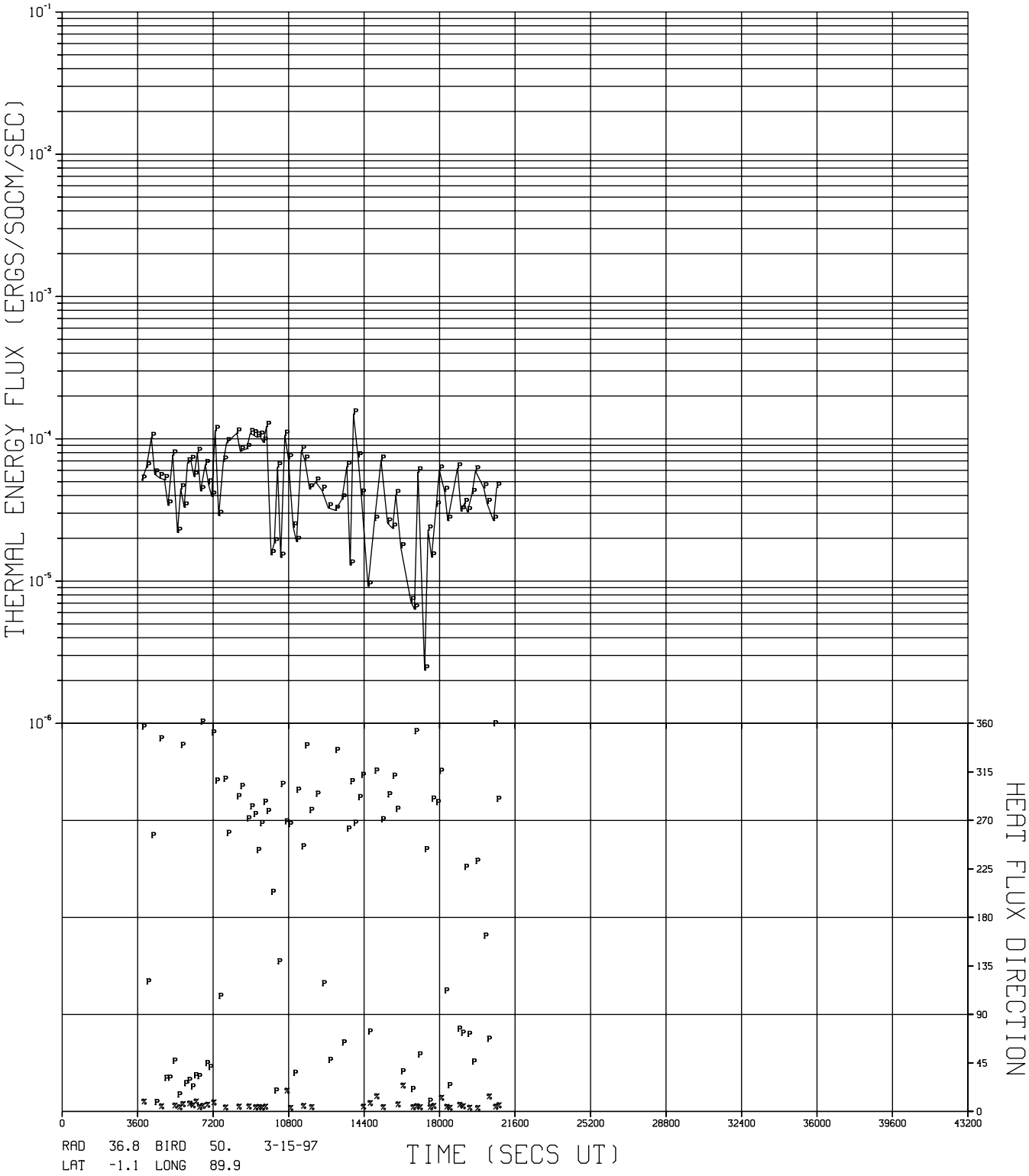
RAD 36.8 BIRD 50. 3-14-97
LAT 7.8 LONG 78.7

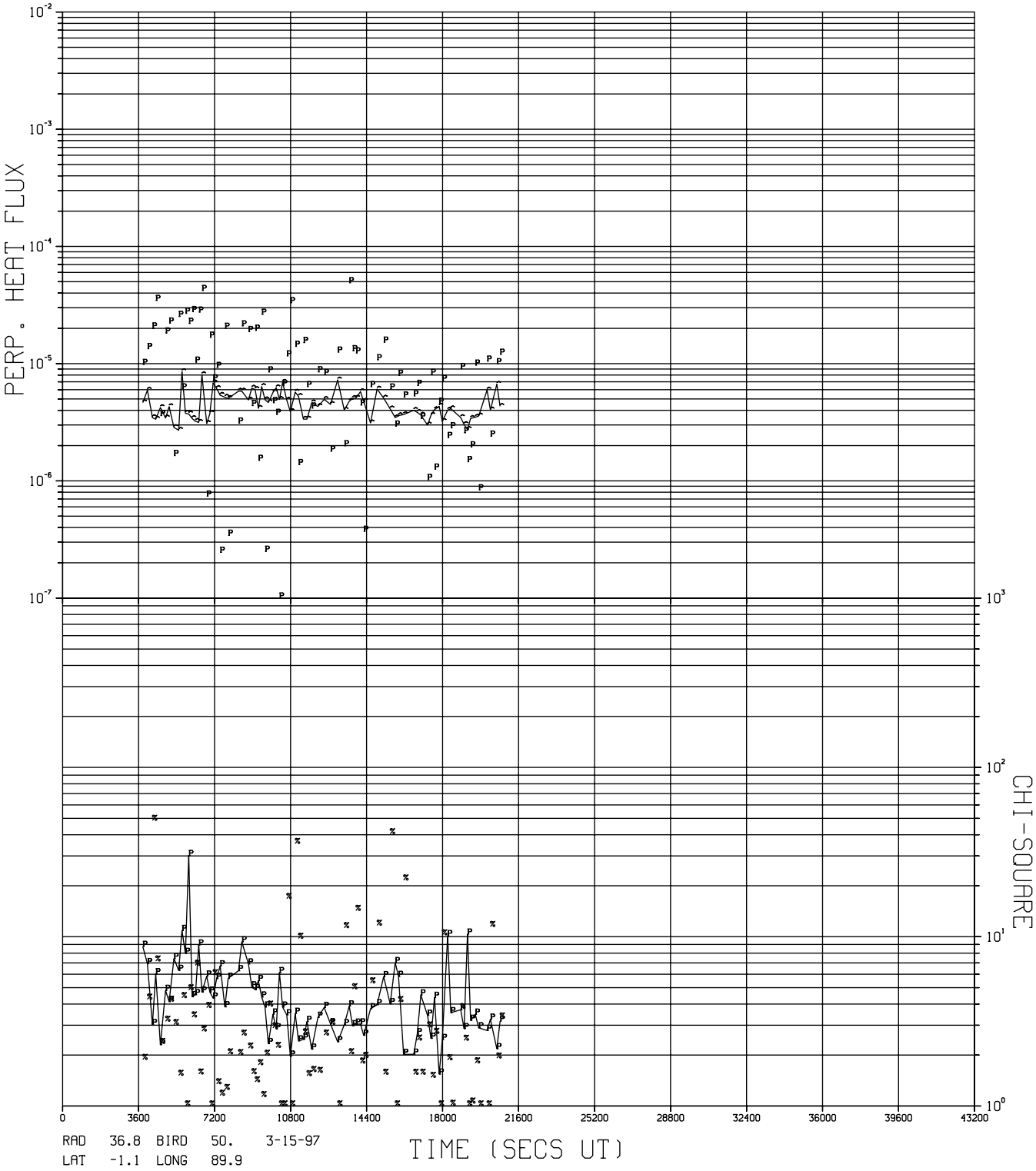

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

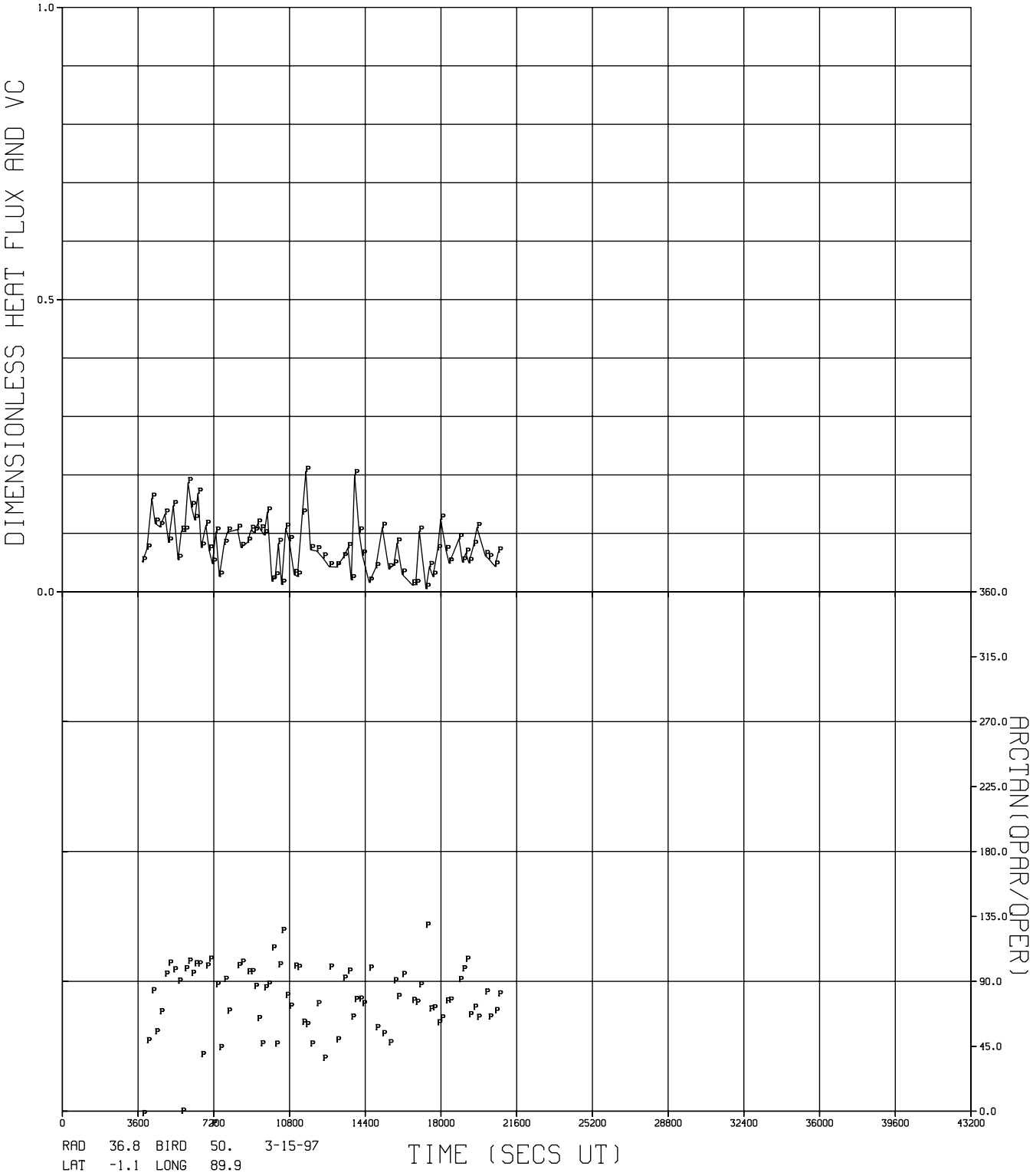

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9
TIME (SECS UT)

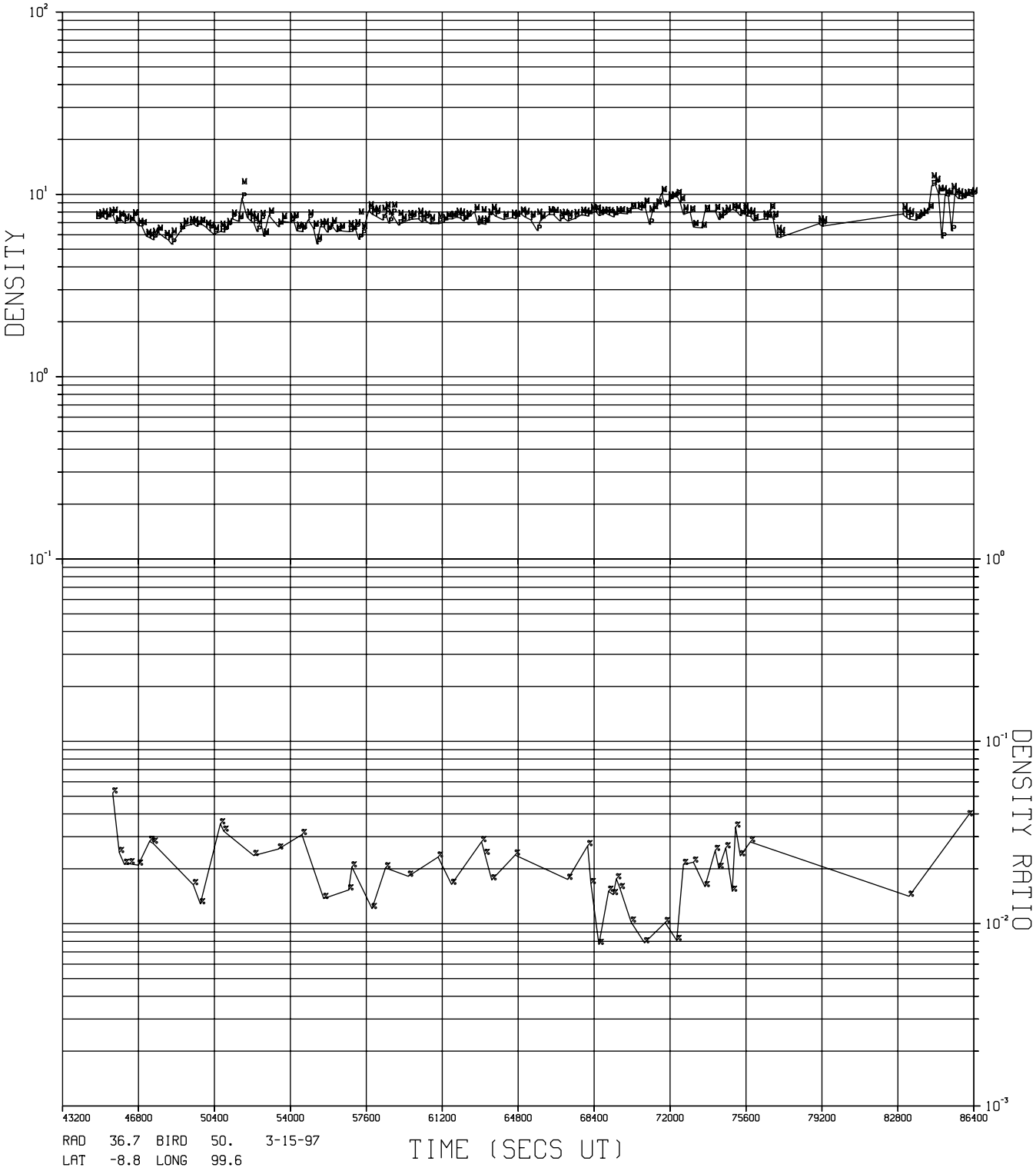

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

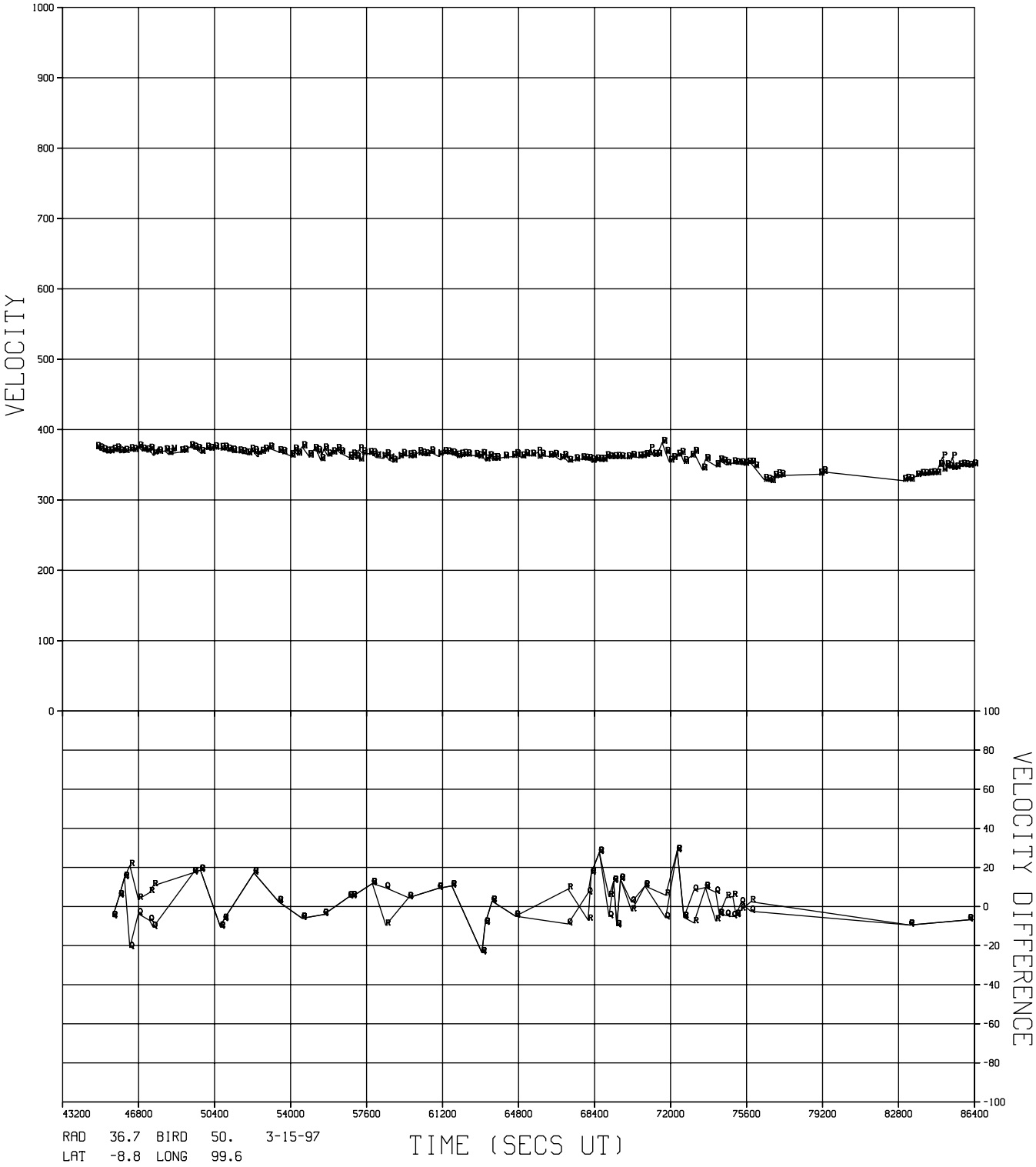

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

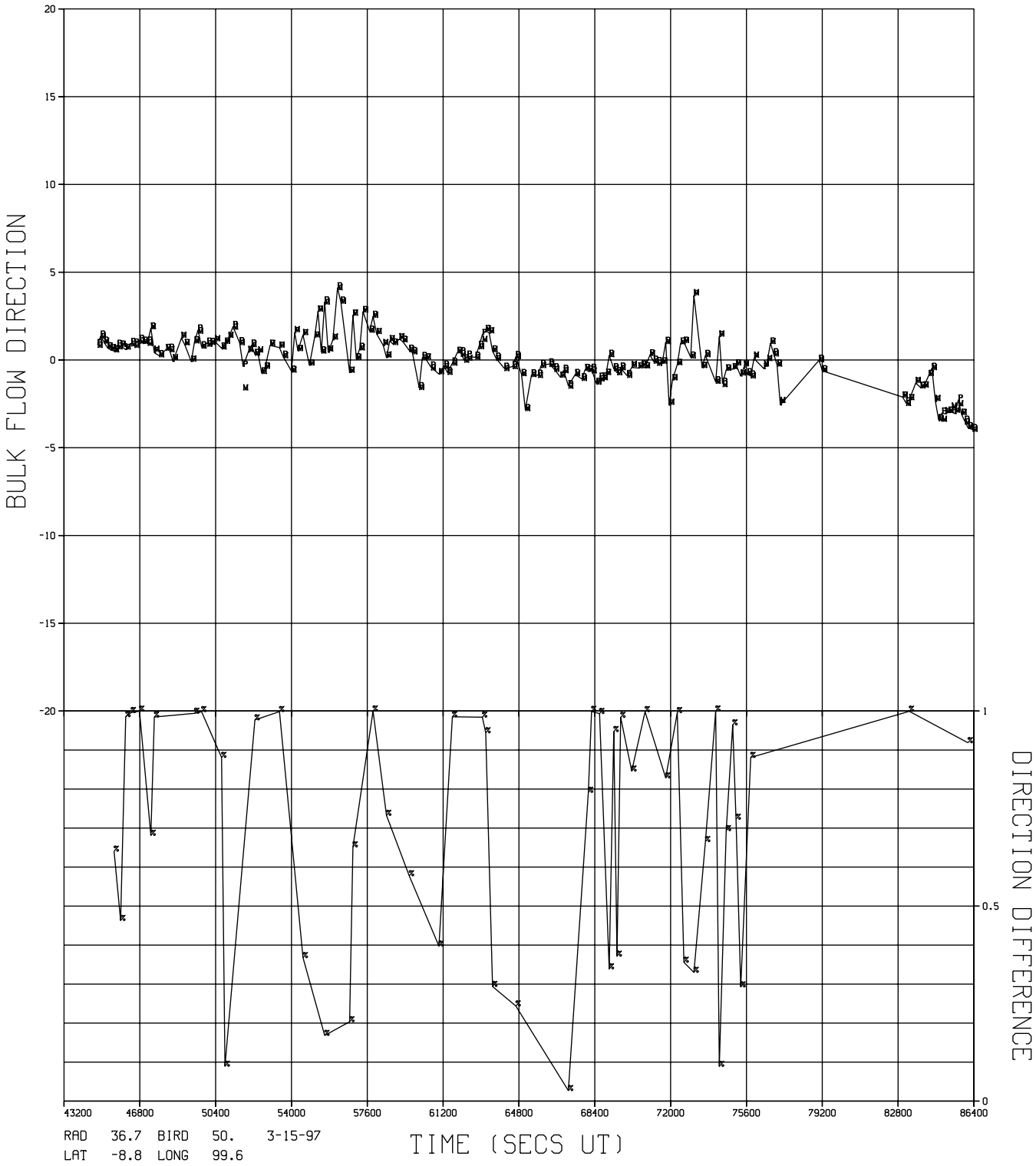

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

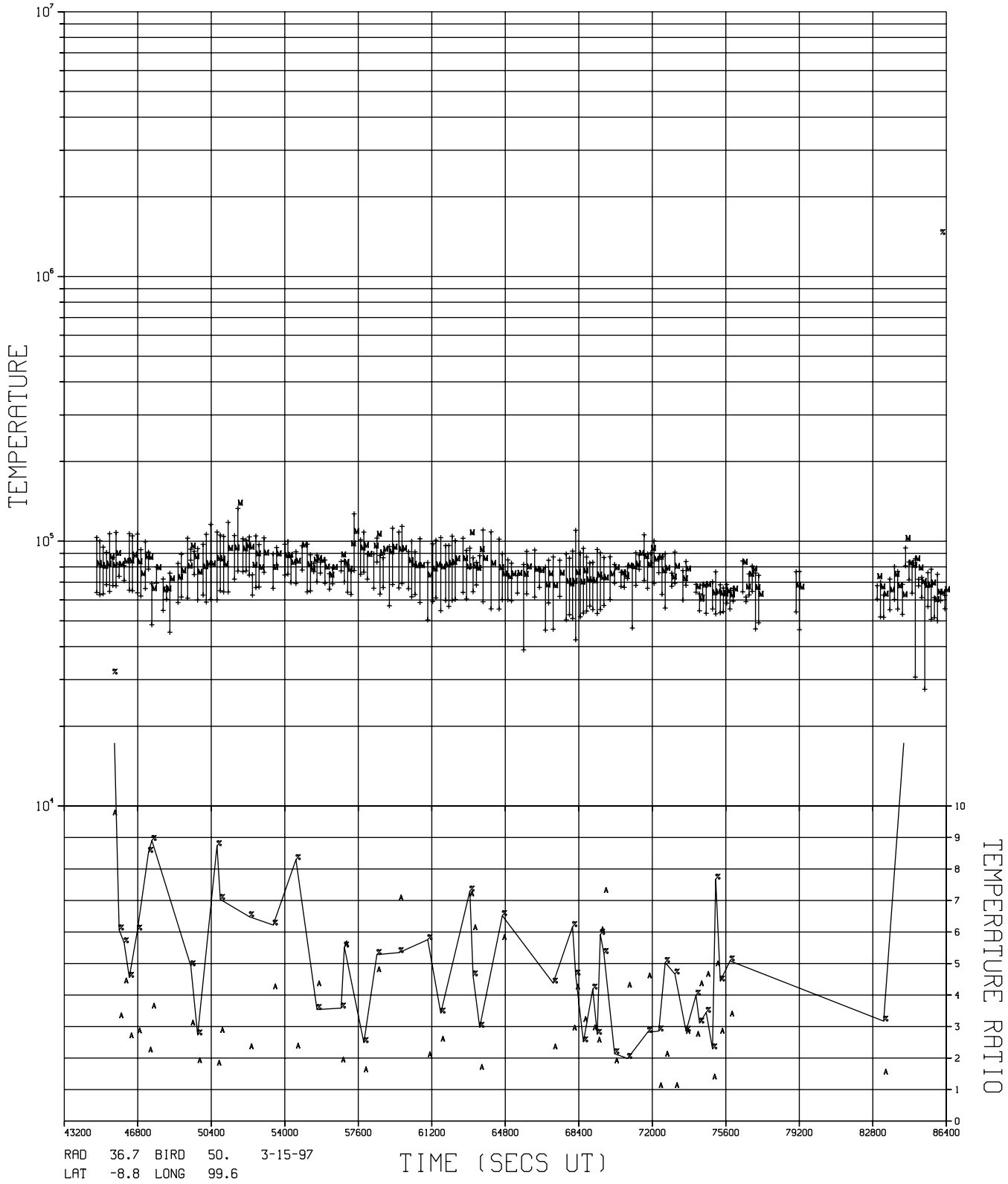

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

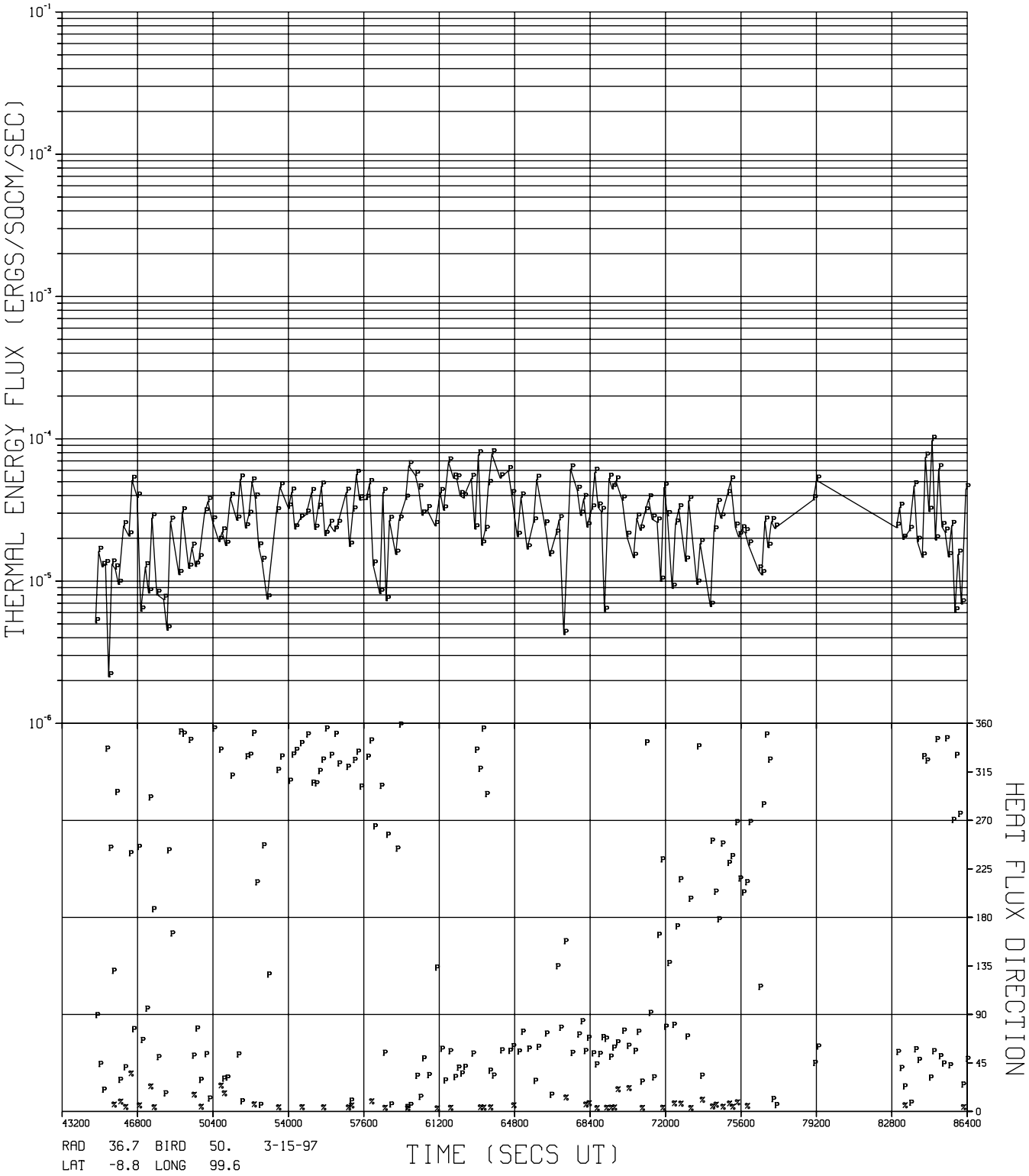

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.8 BIRD 50. 3-15-97
LAT -1.1 LONG 89.9

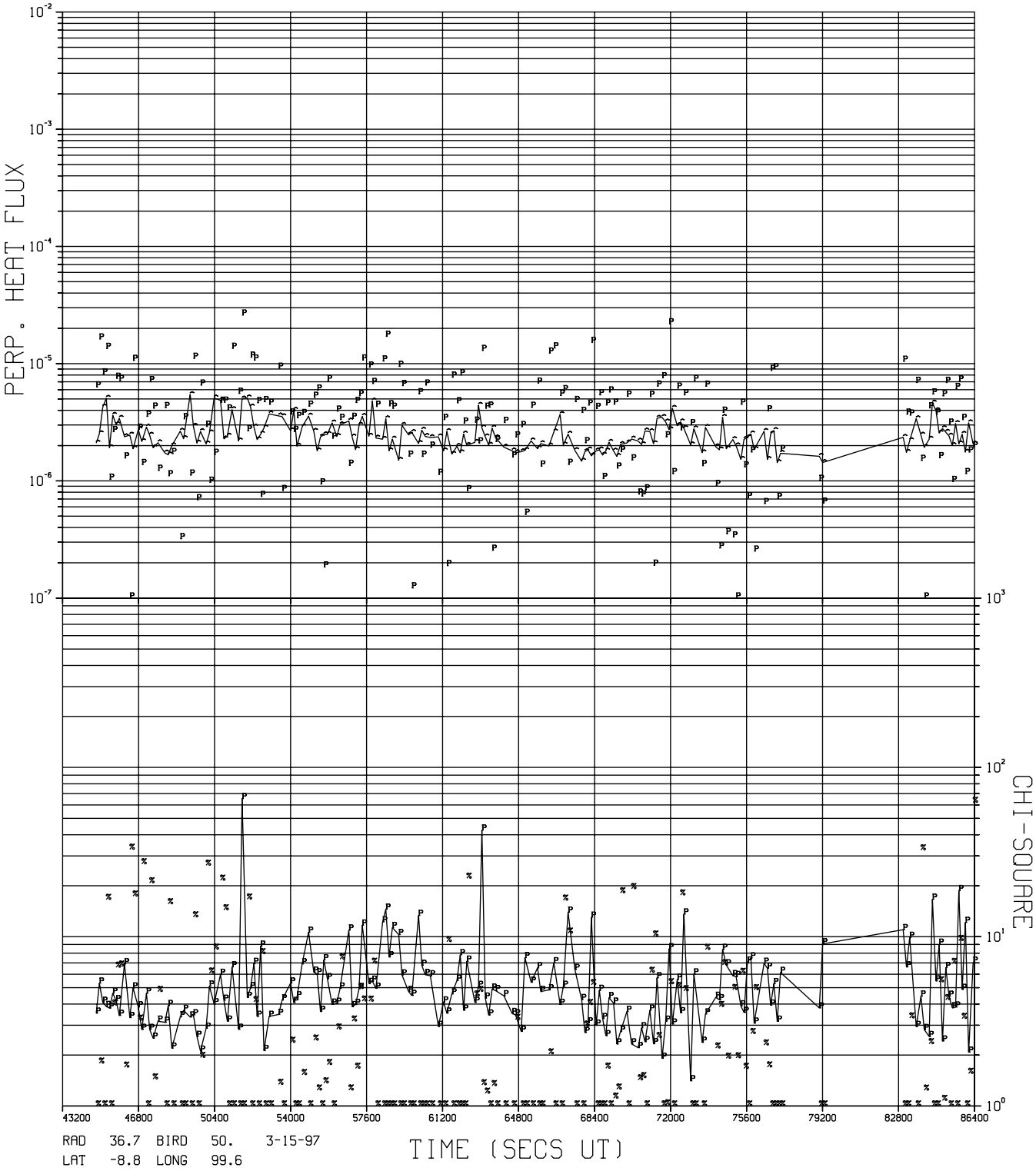

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

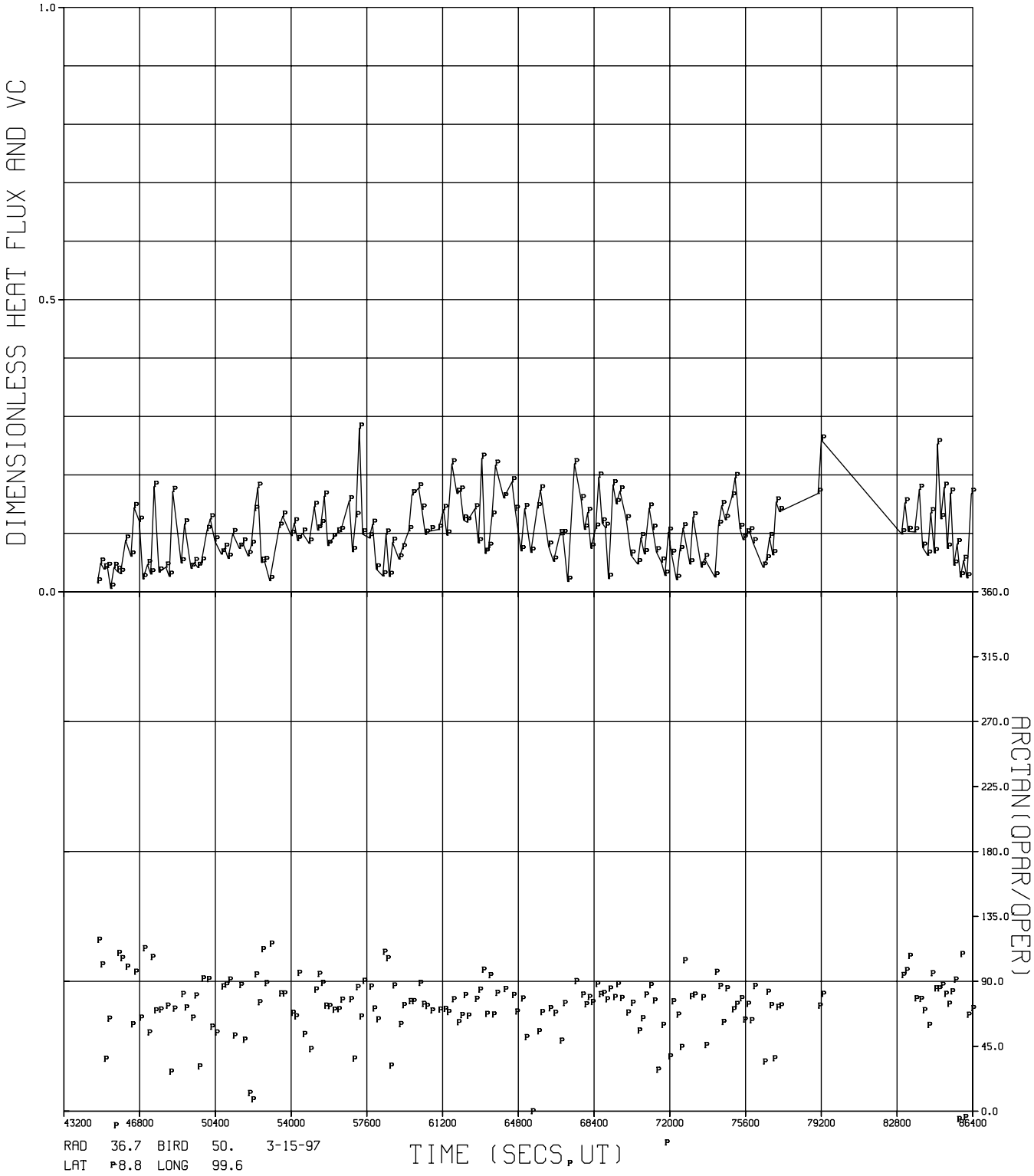

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

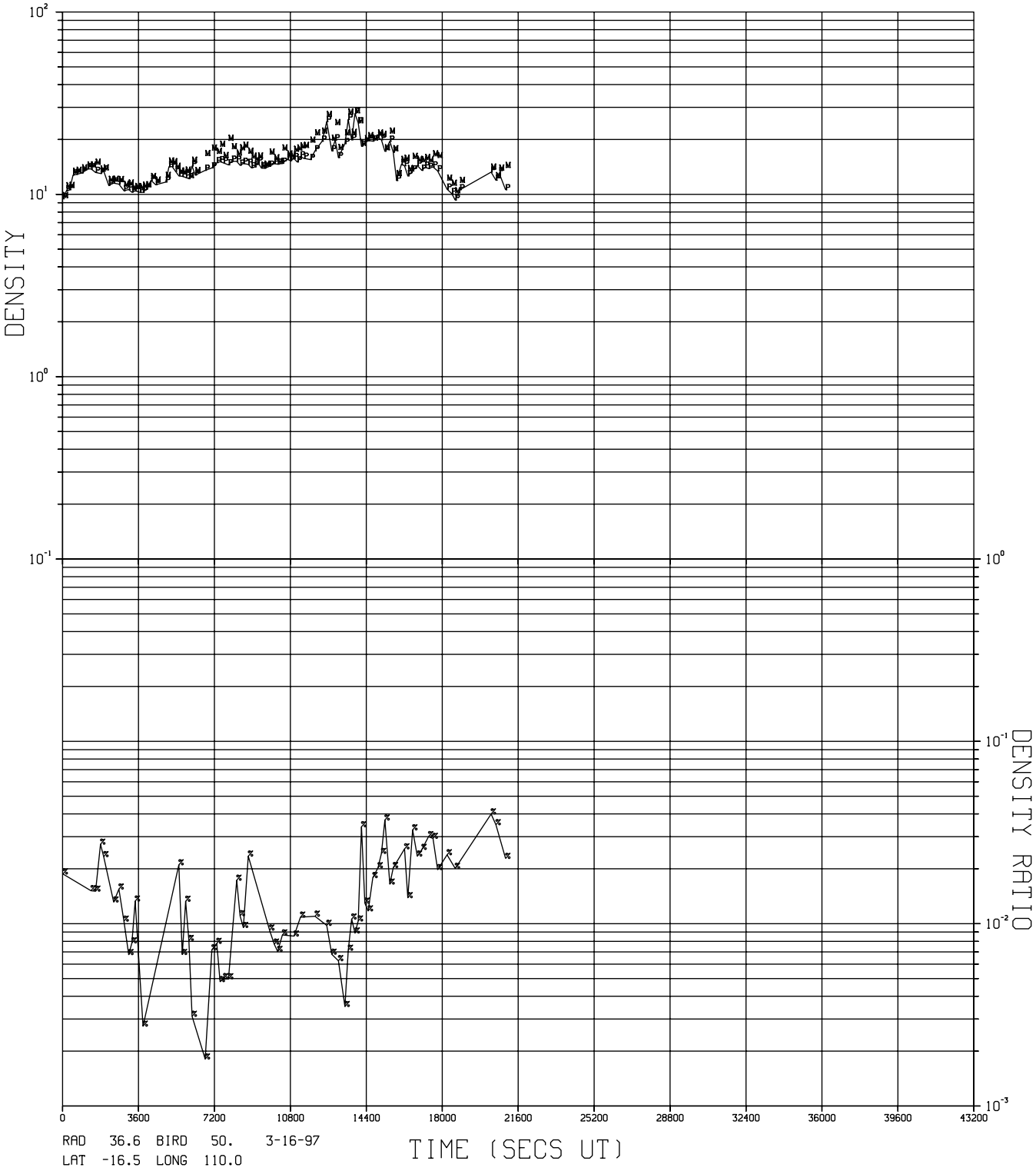

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

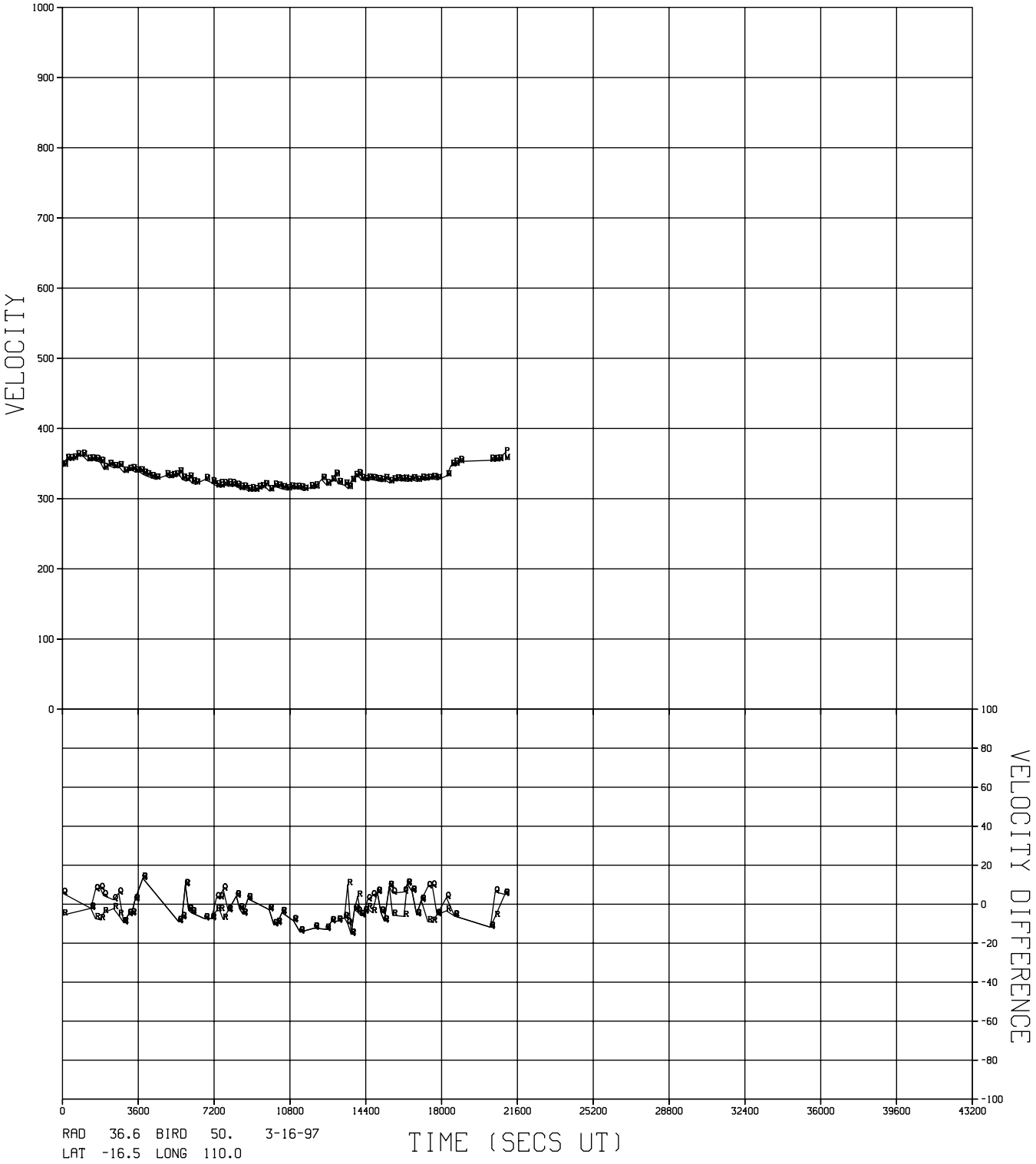

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

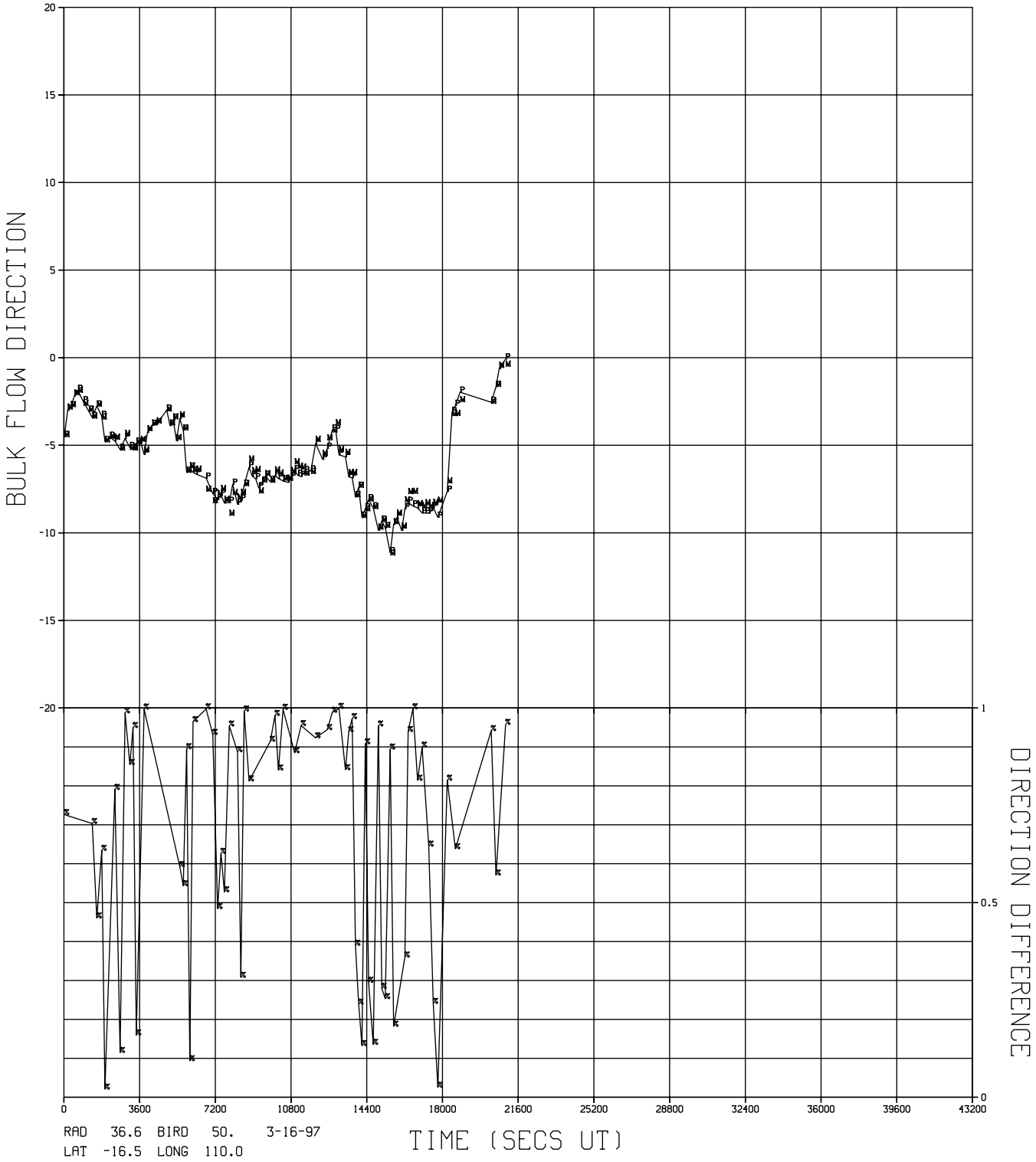

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

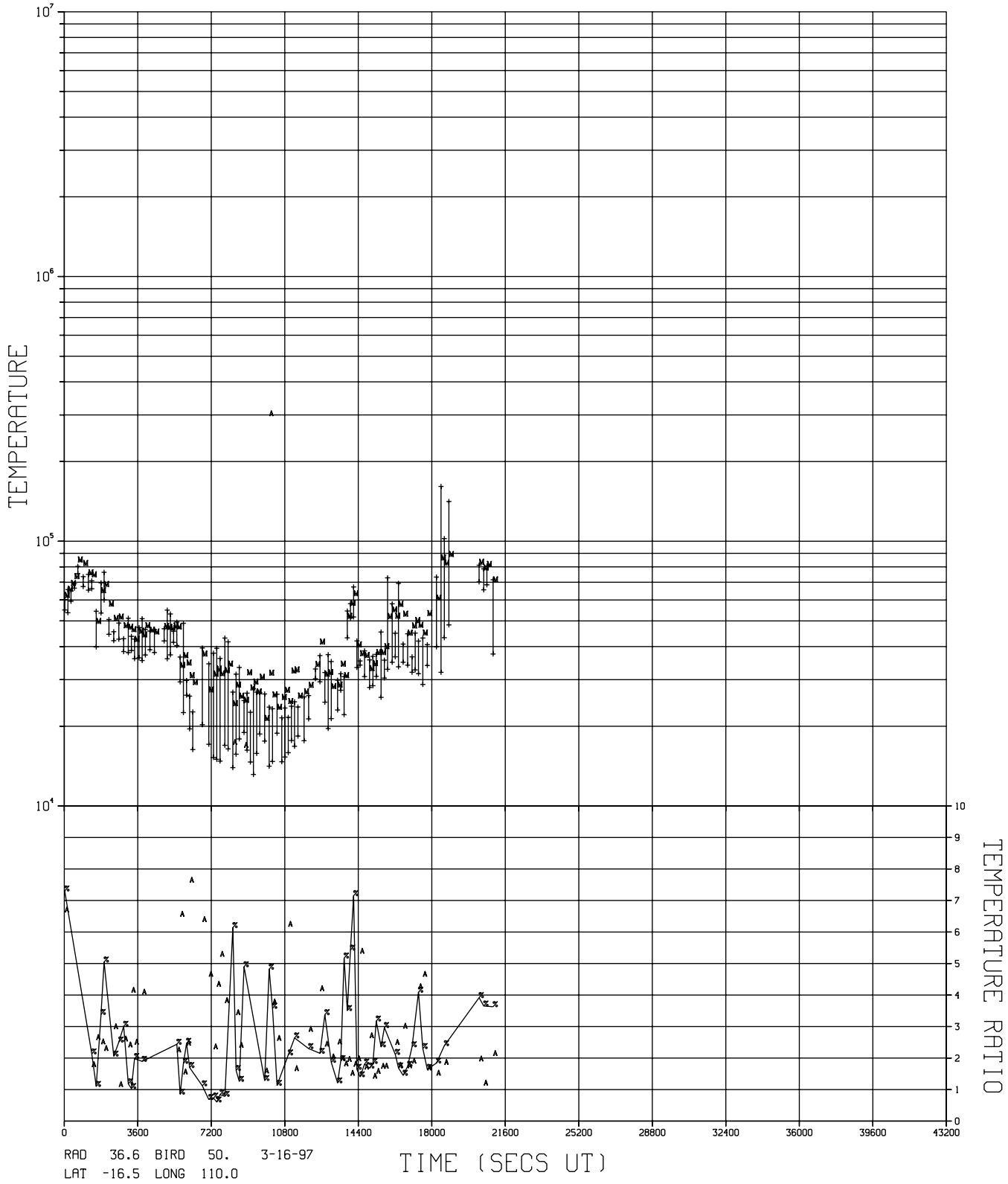

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 3-15-97
LAT -8.8 LONG 99.6

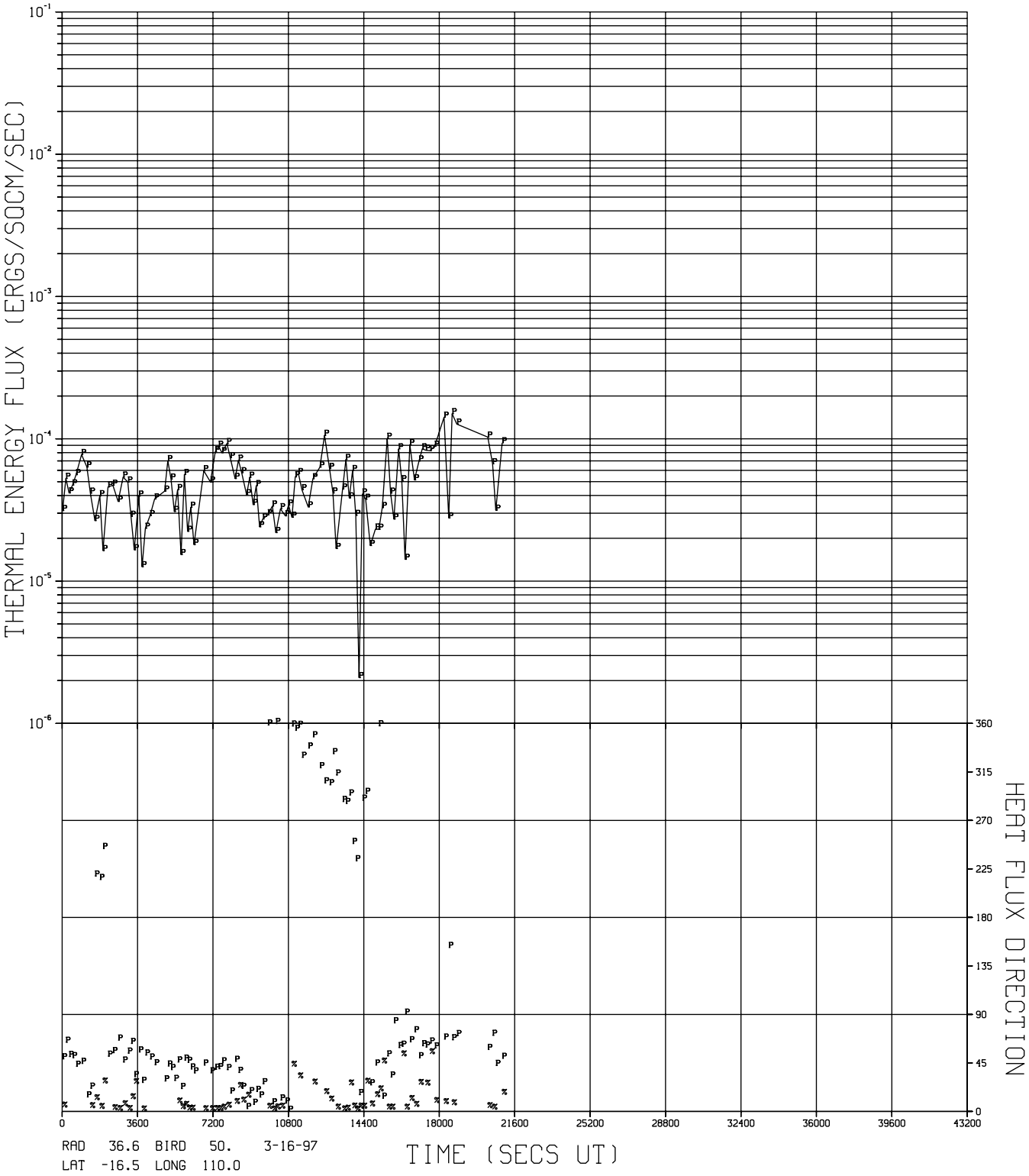

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS,UT)
RAD 36.7 BIRD 50. 3-15-97
LAT 8.8 LONG 99.6

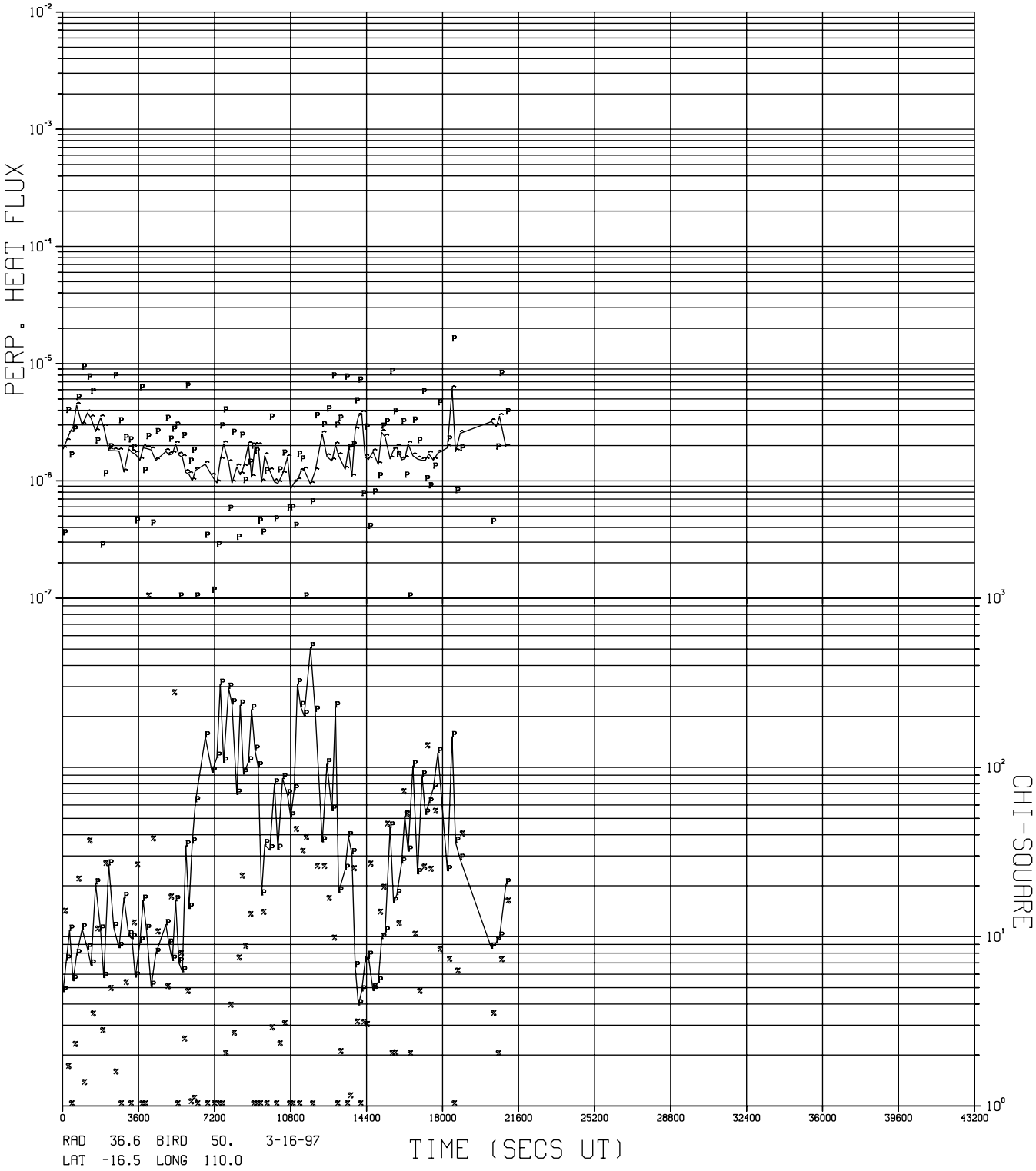

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

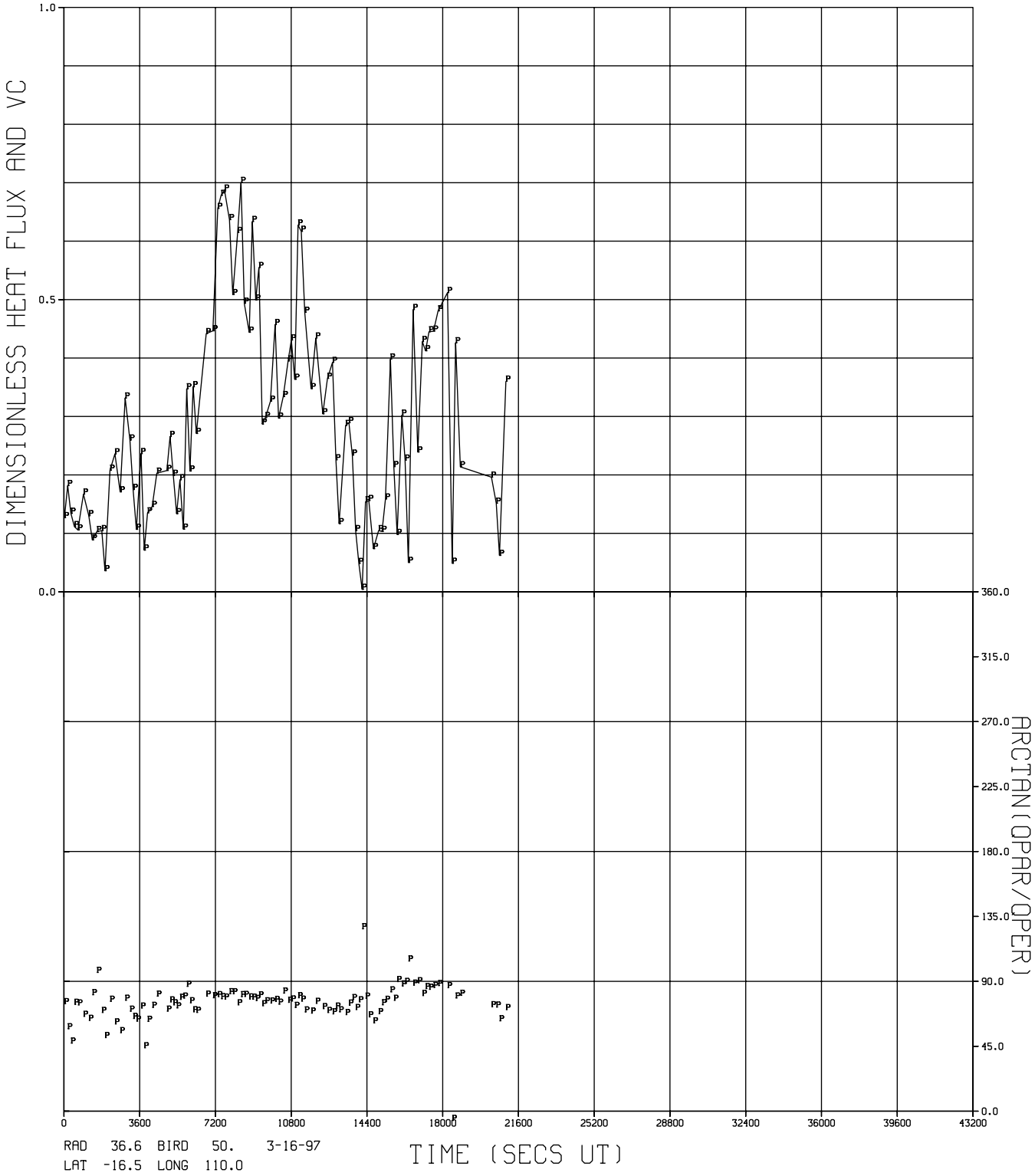

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

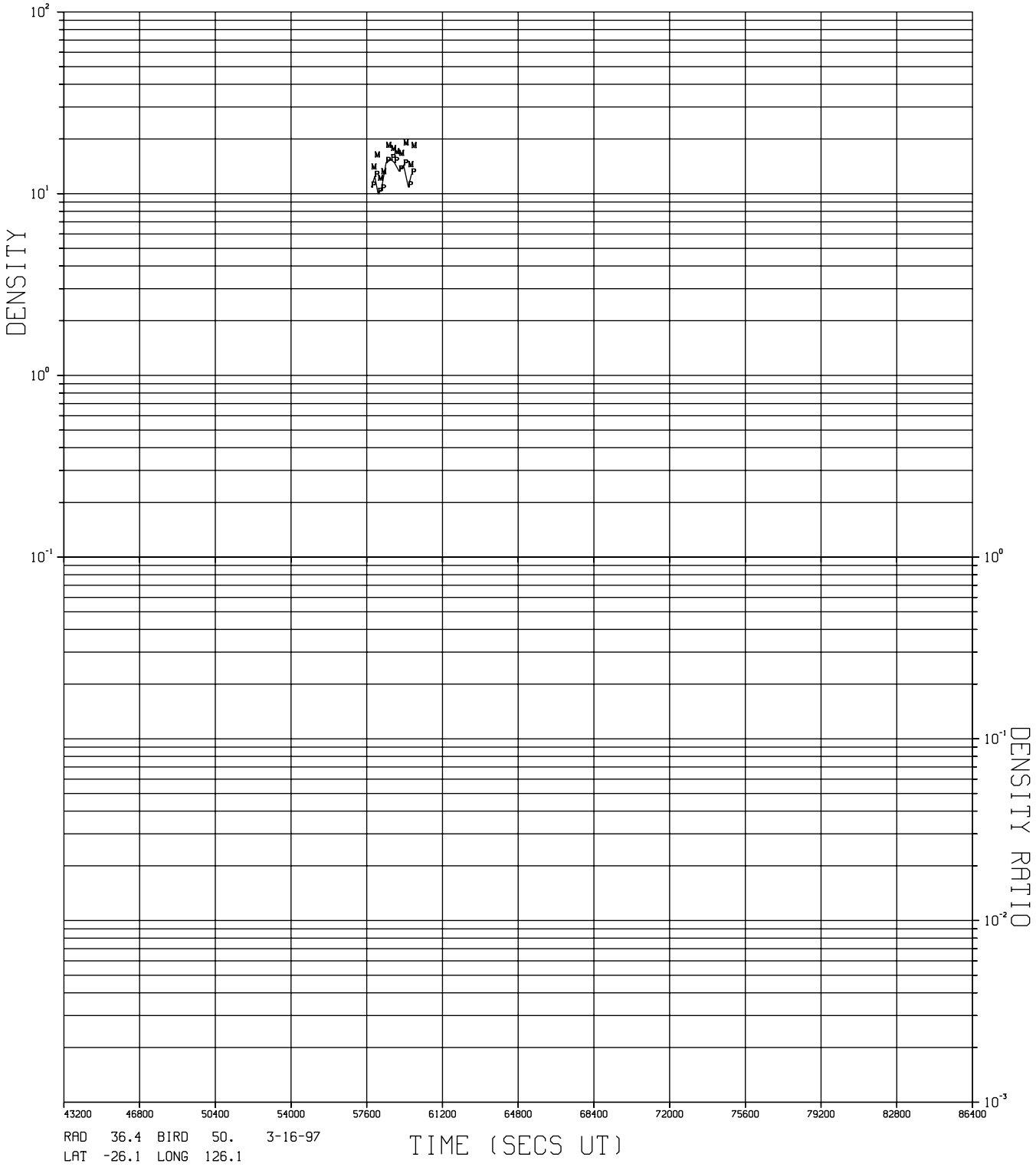

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

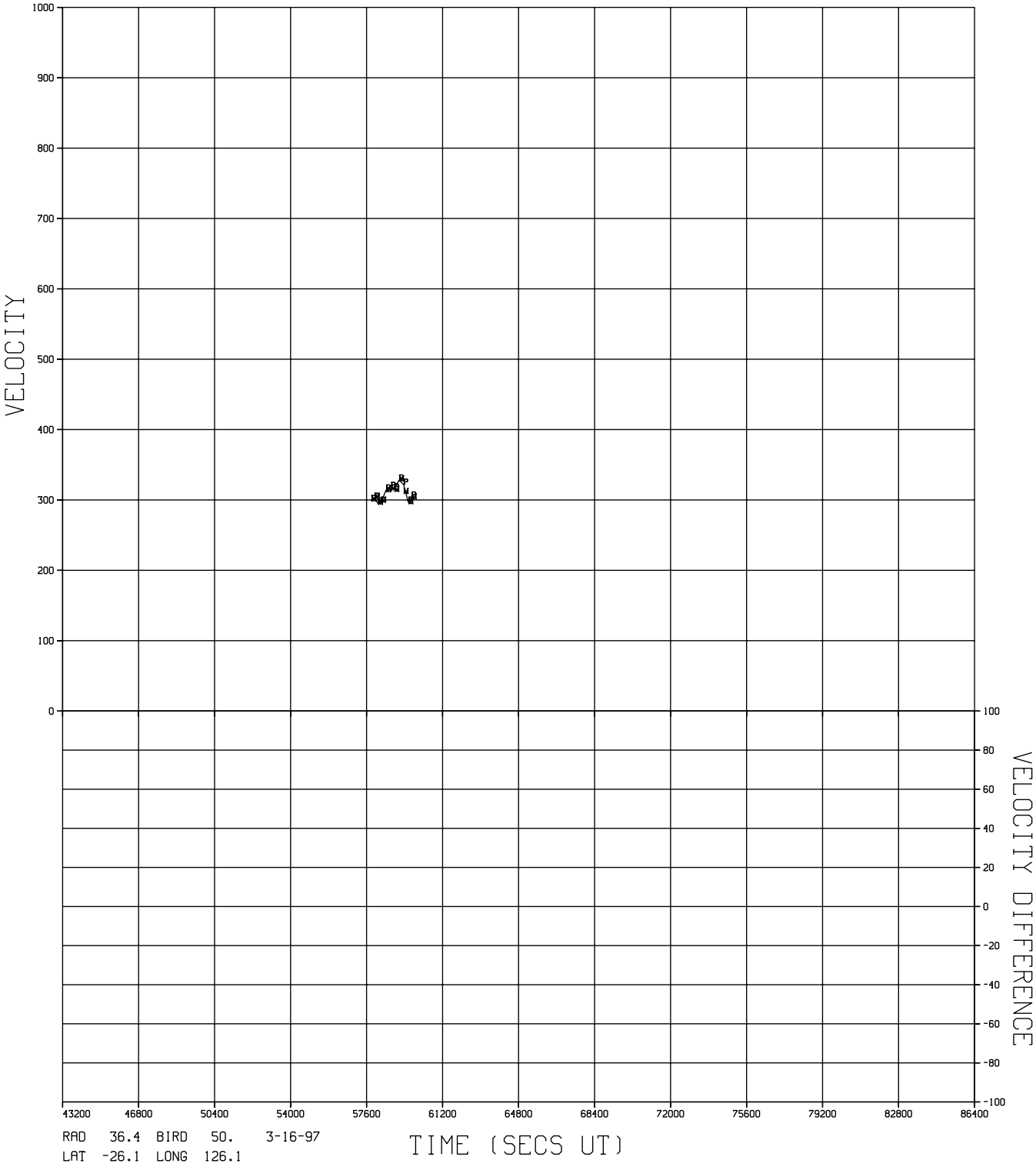

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

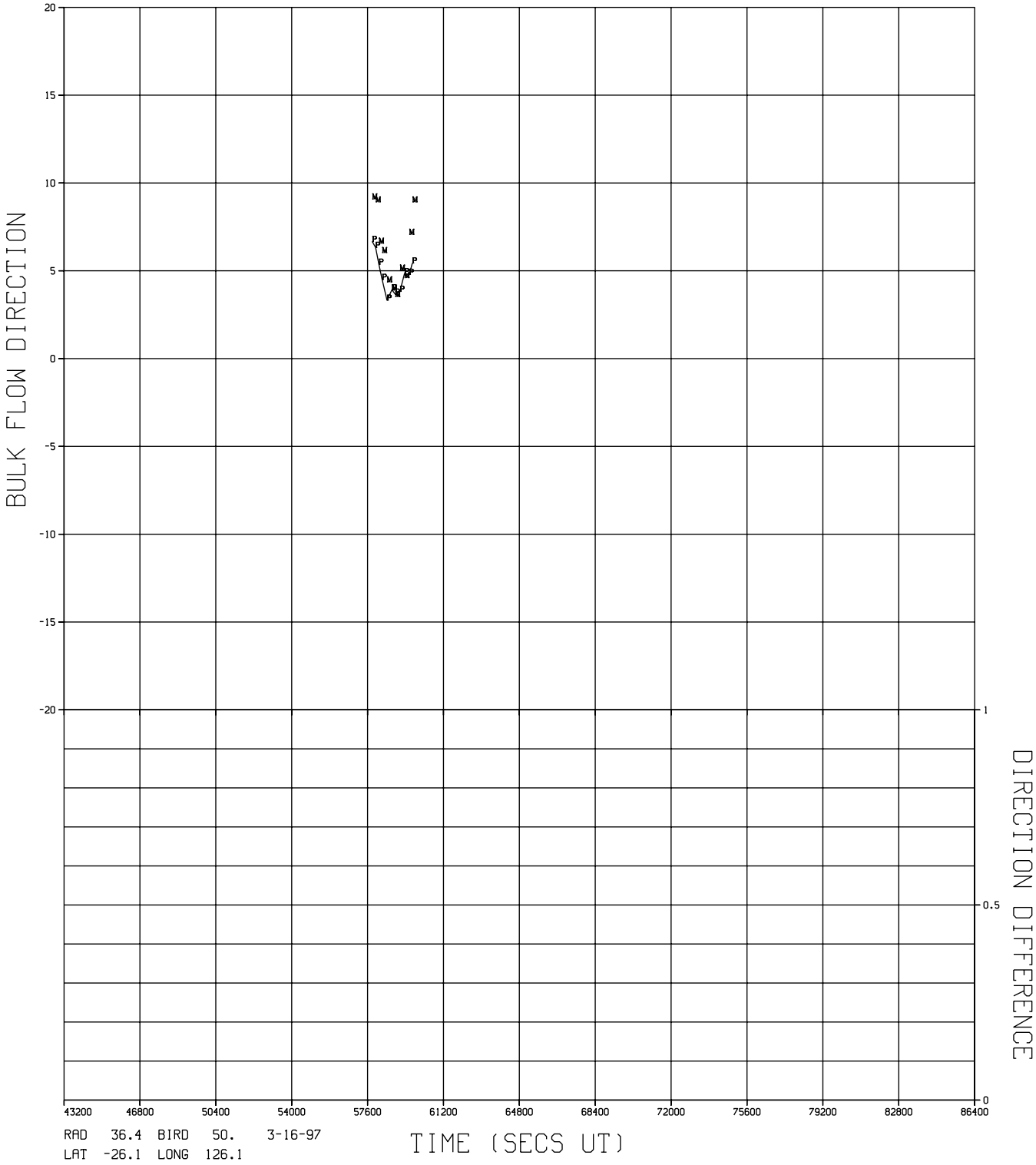

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

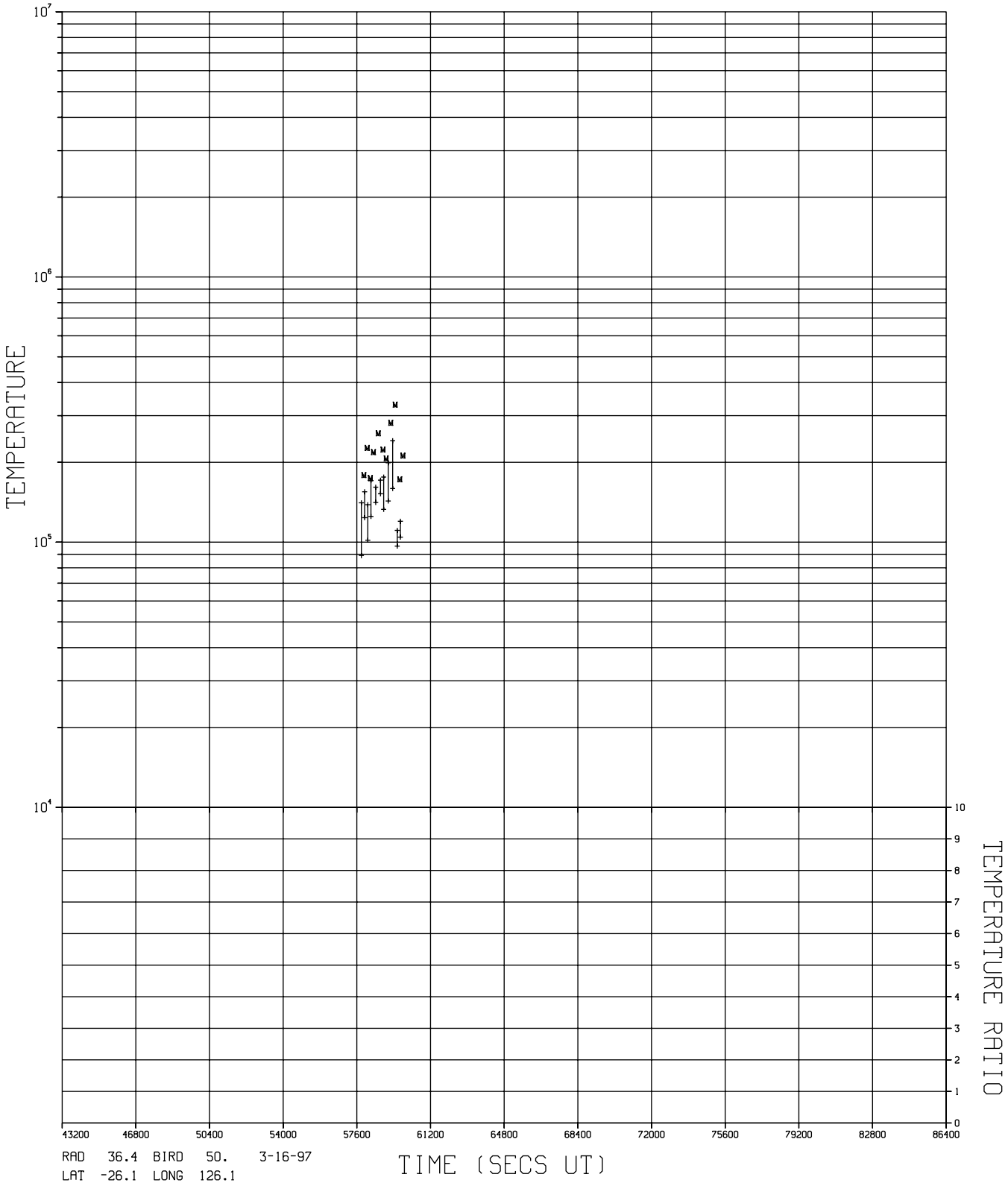

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.6 BIRD 50. 3-16-97
LAT -16.5 LONG 110.0

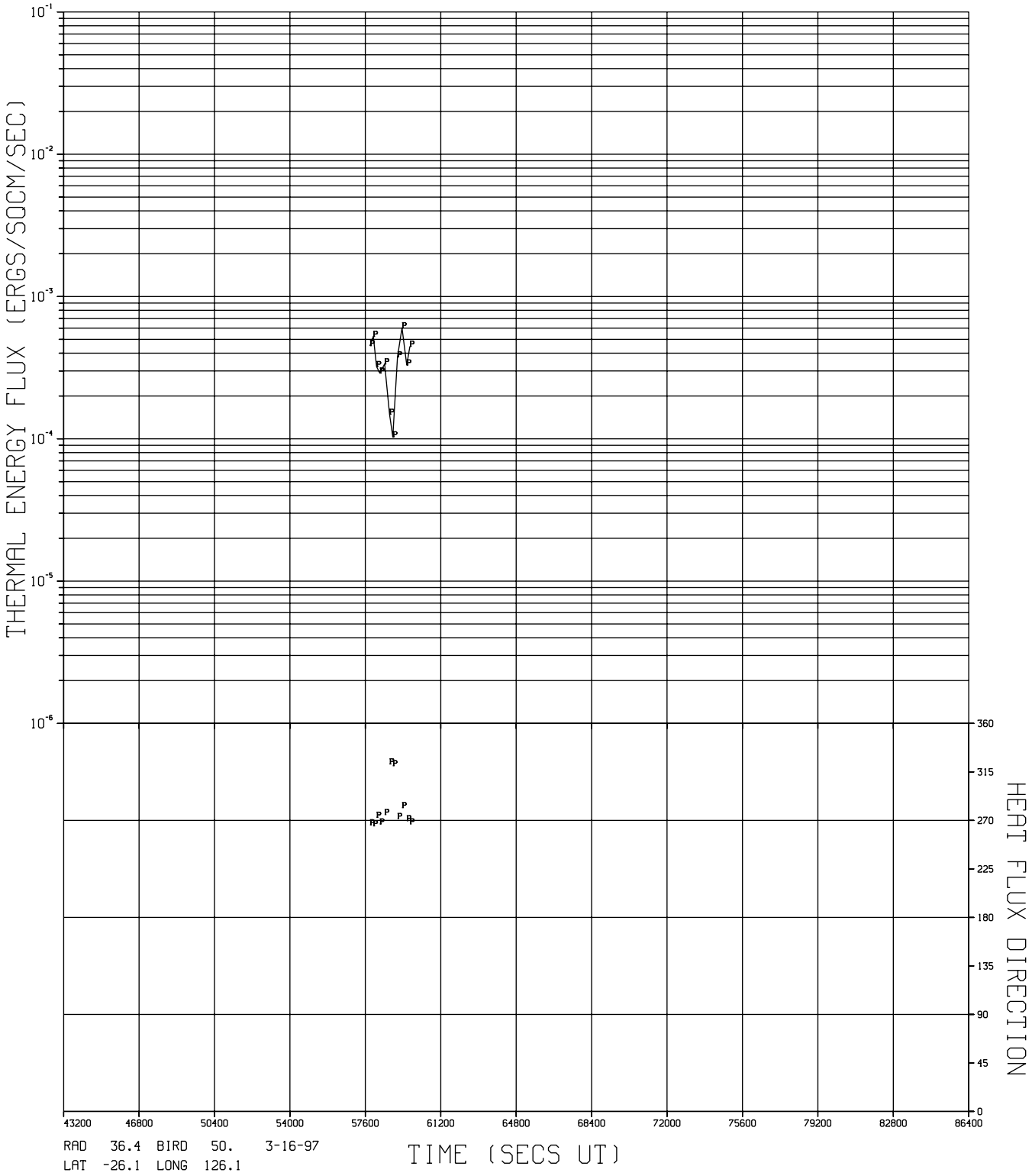

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1

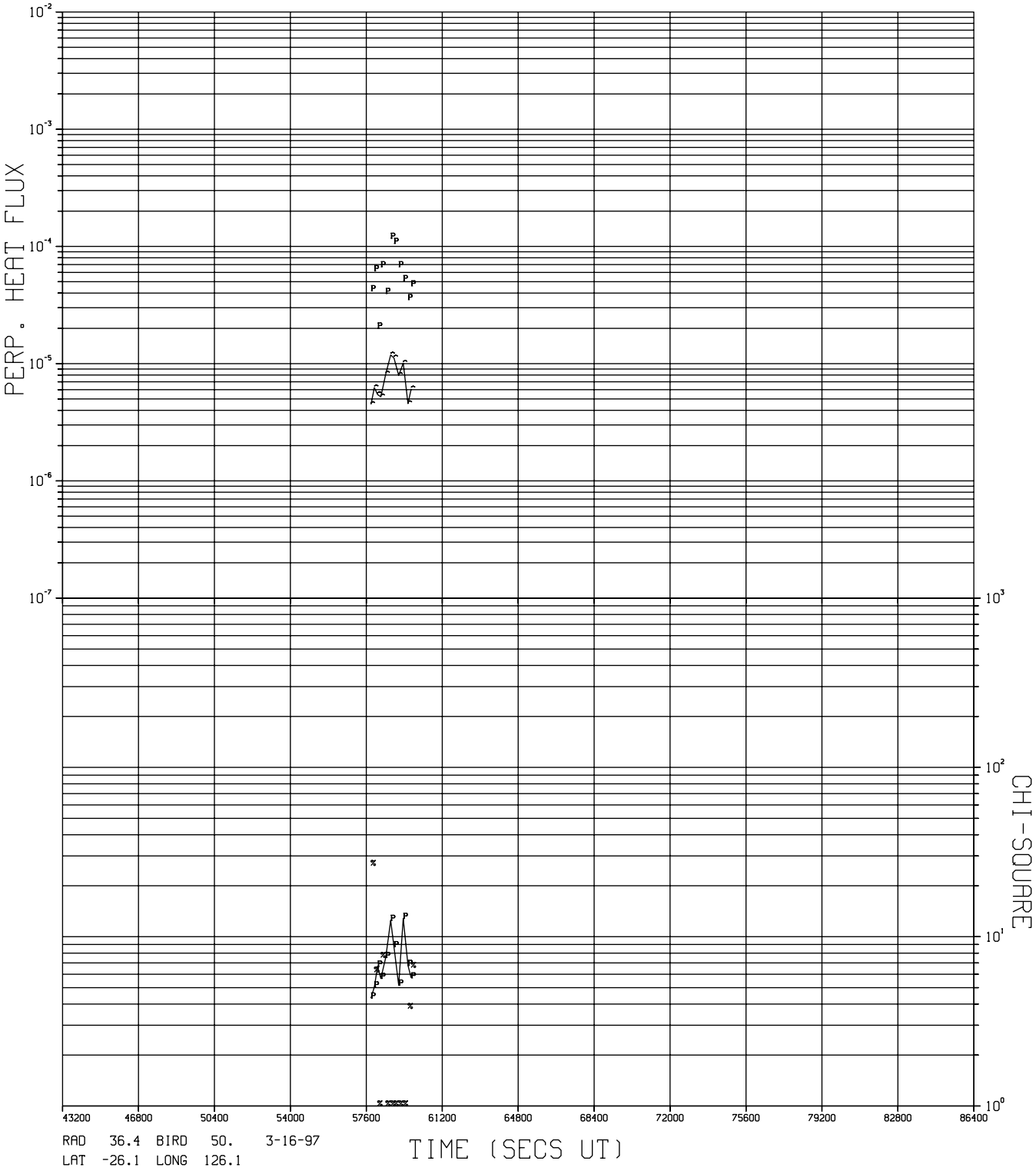

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1

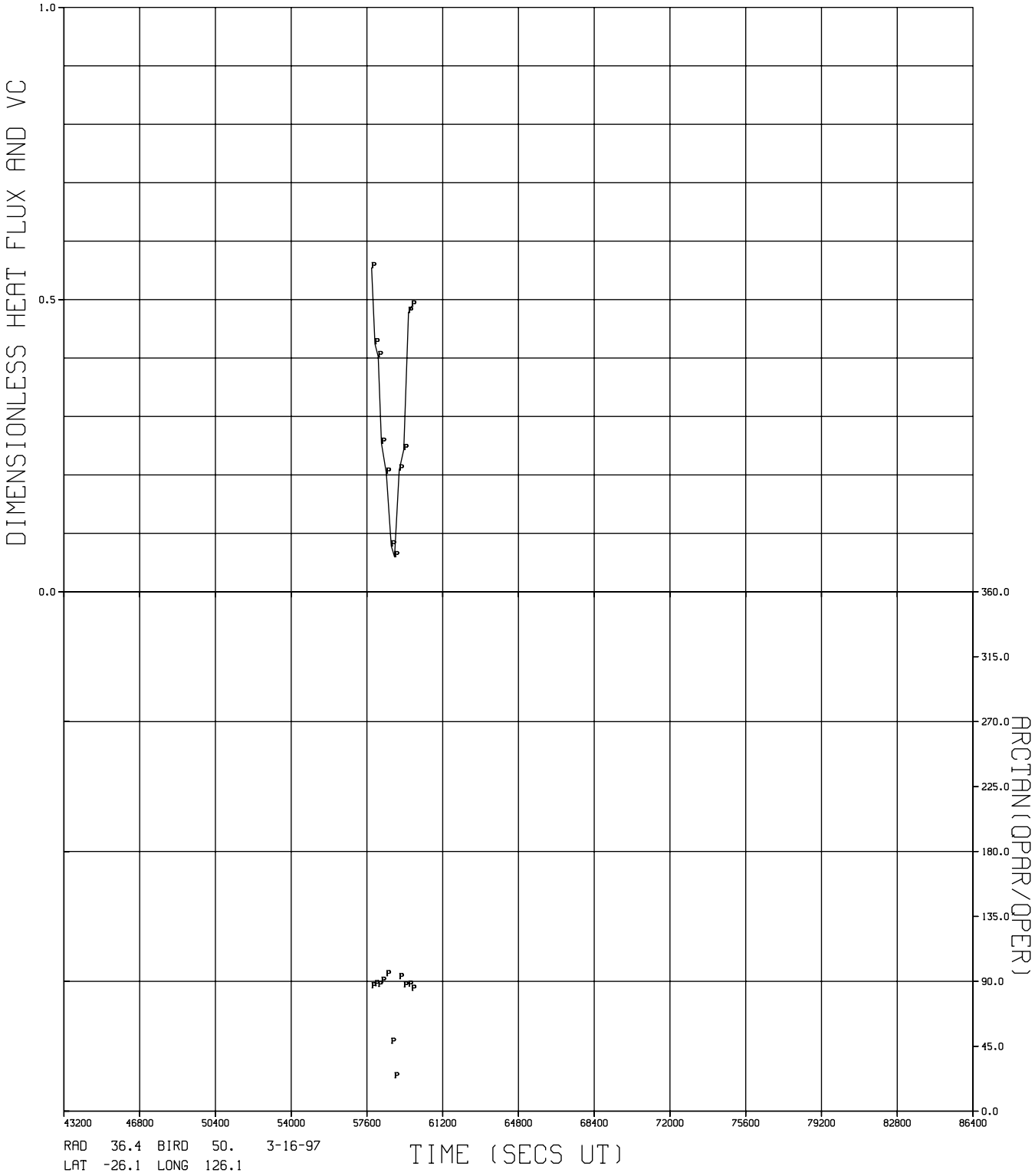


RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1


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 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1


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
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 36.4 BIRD 50. 3-16-97
LAT -26.1 LONG 126.1