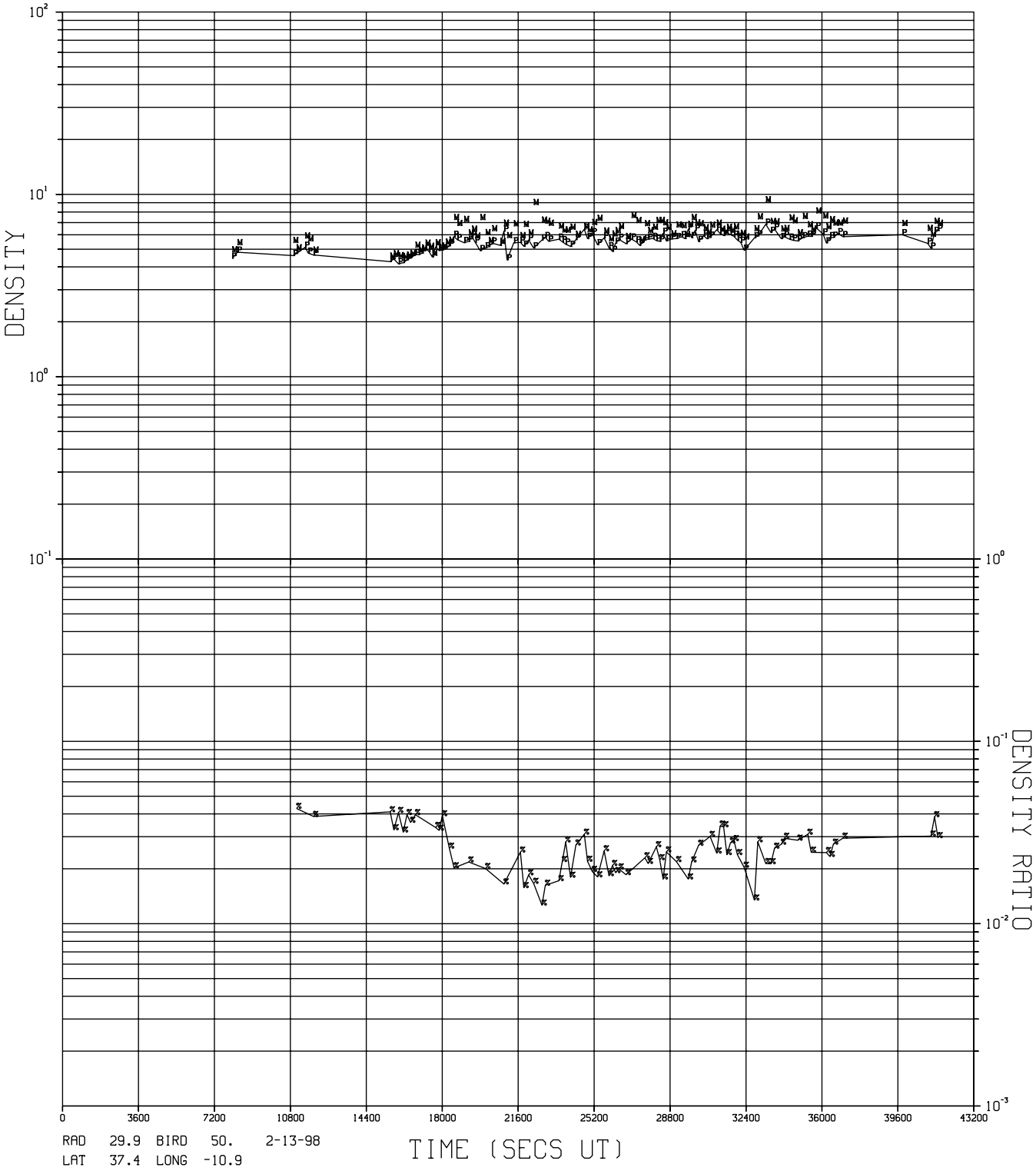
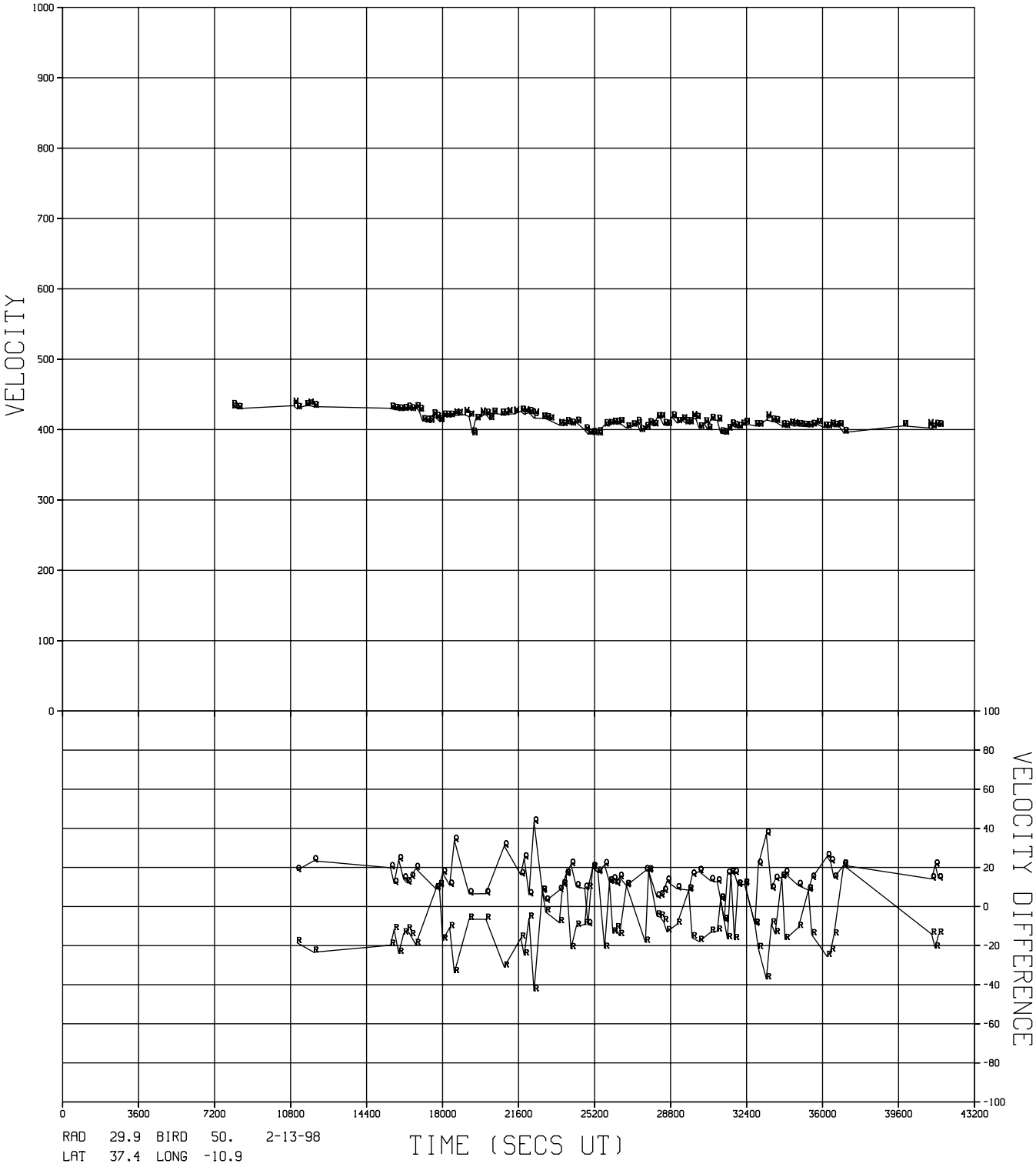
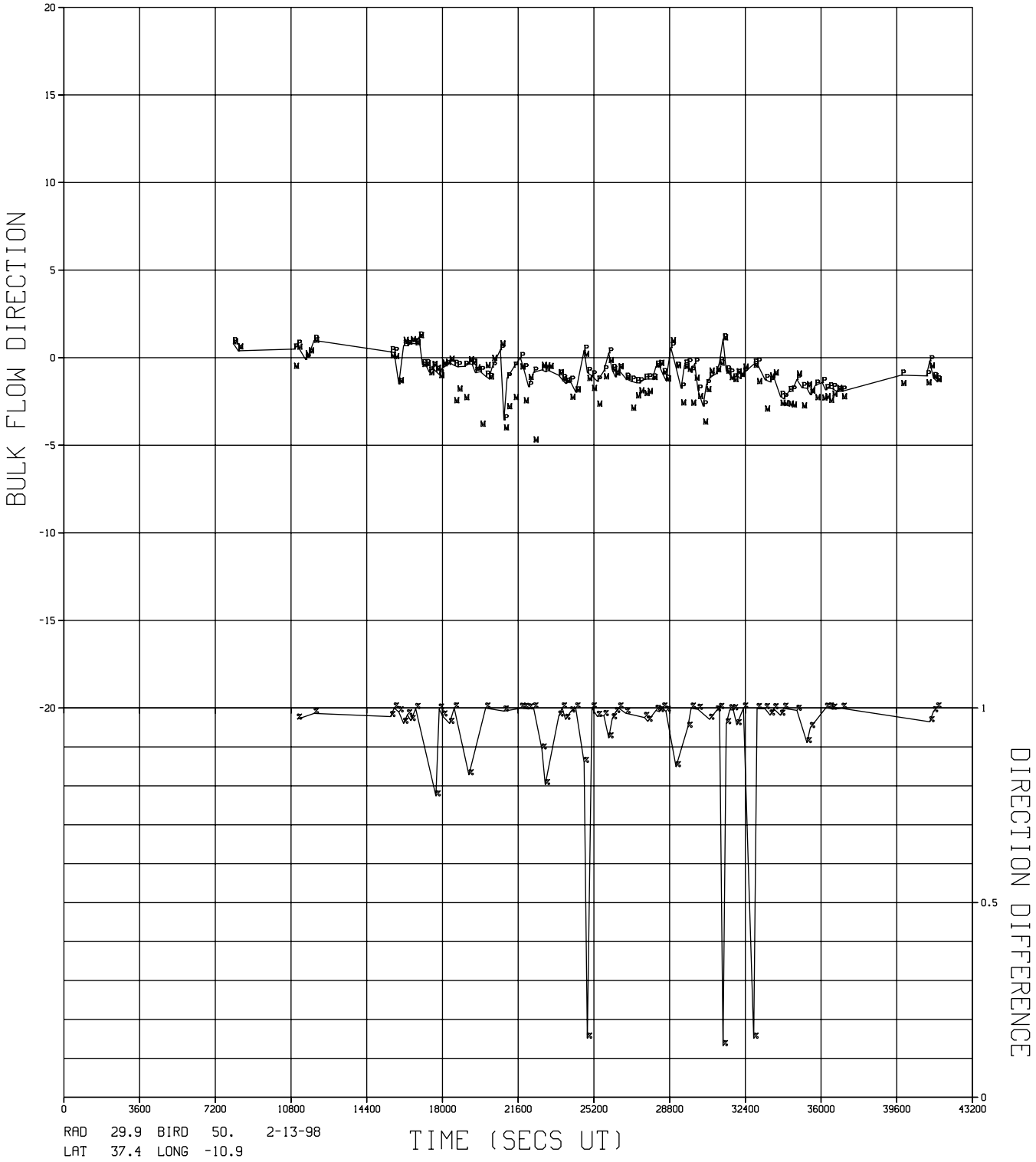
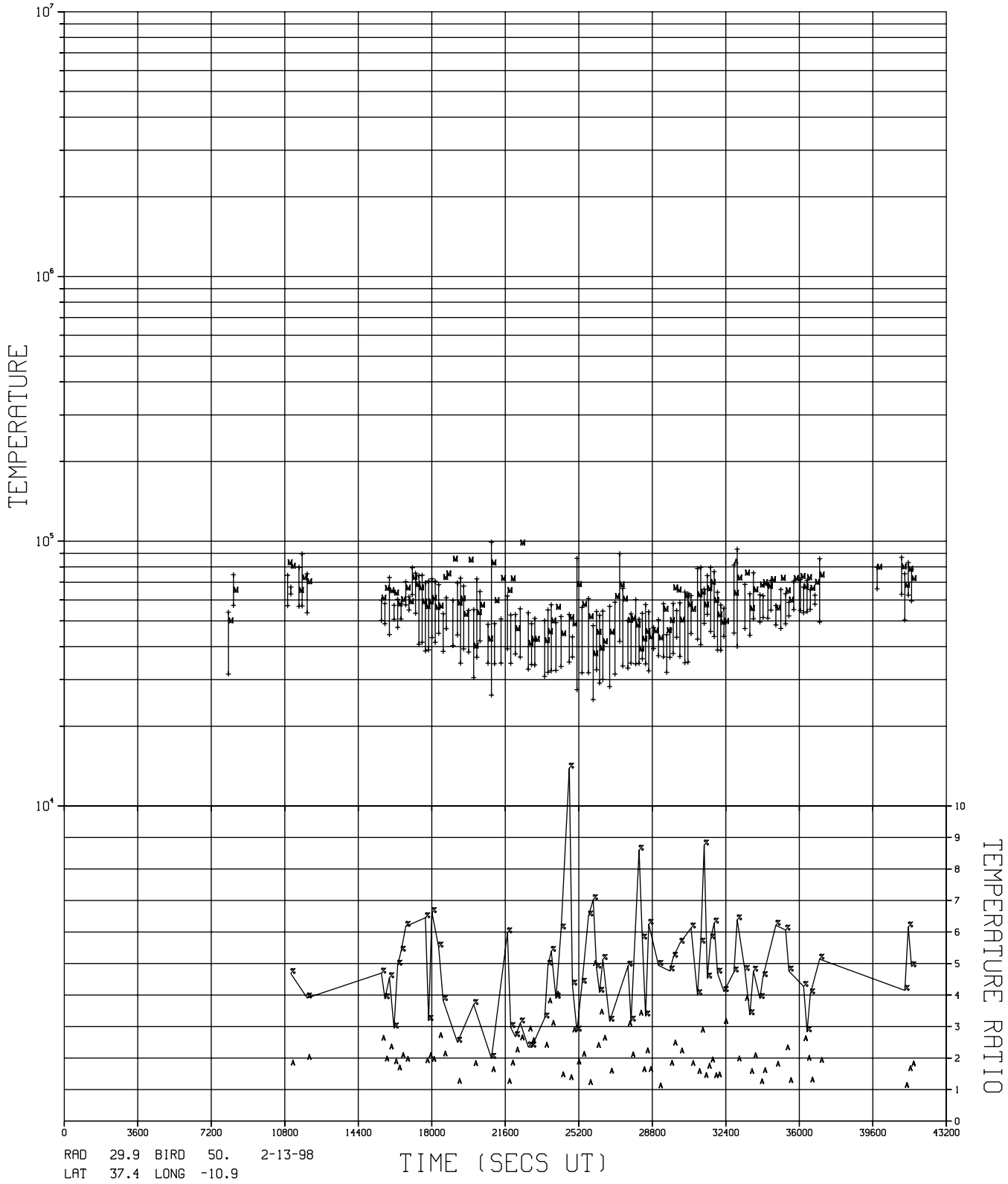
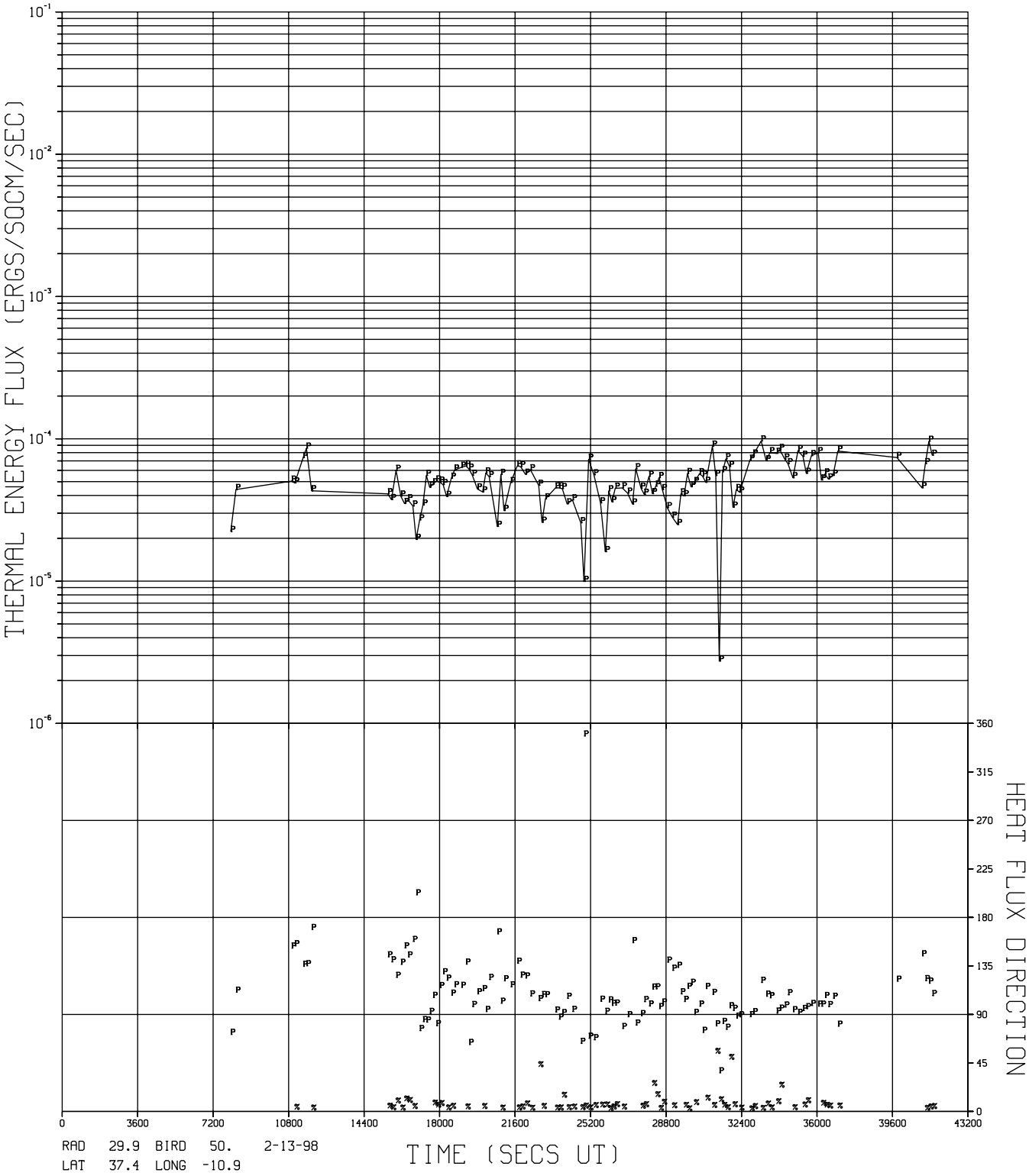
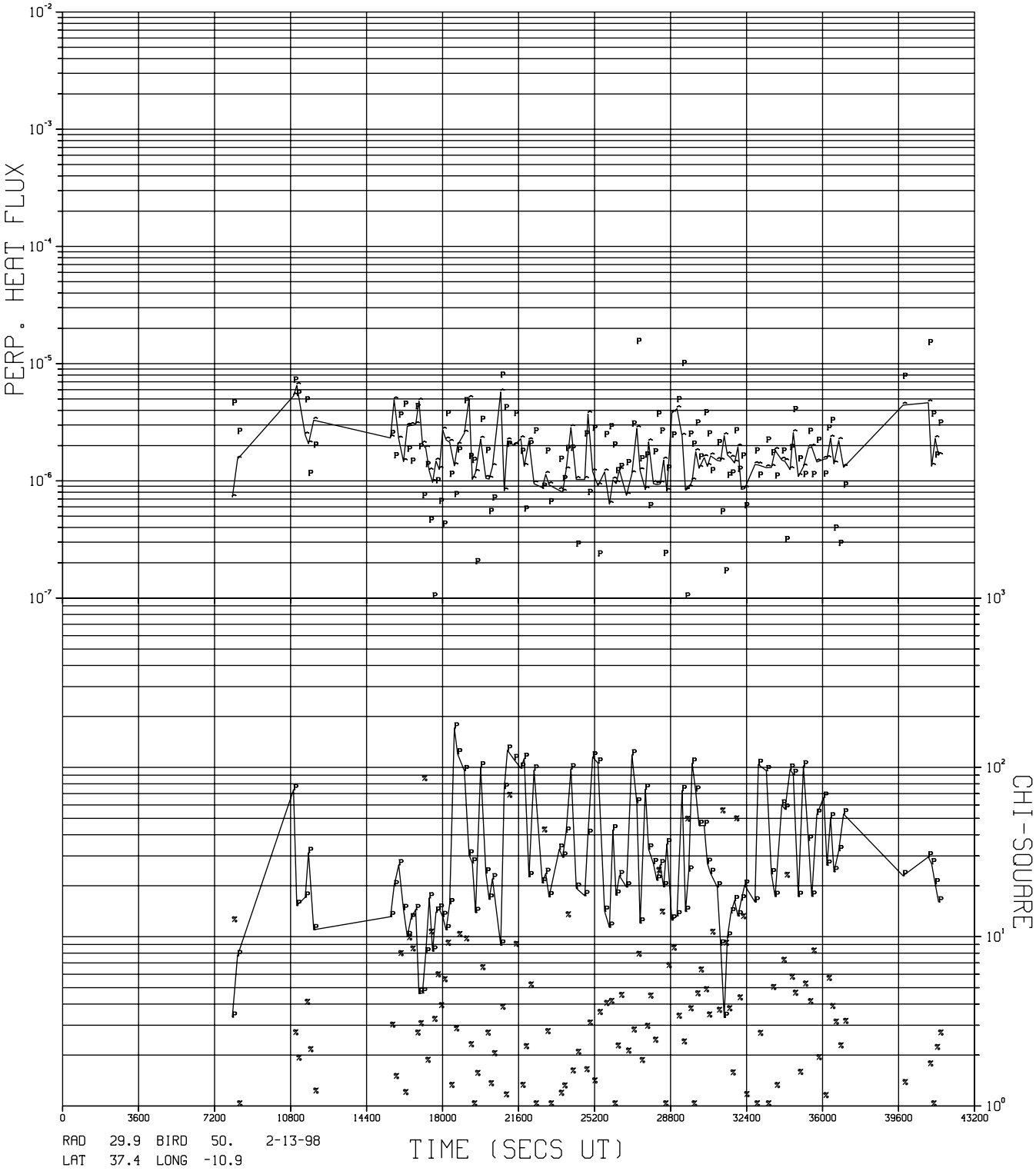

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

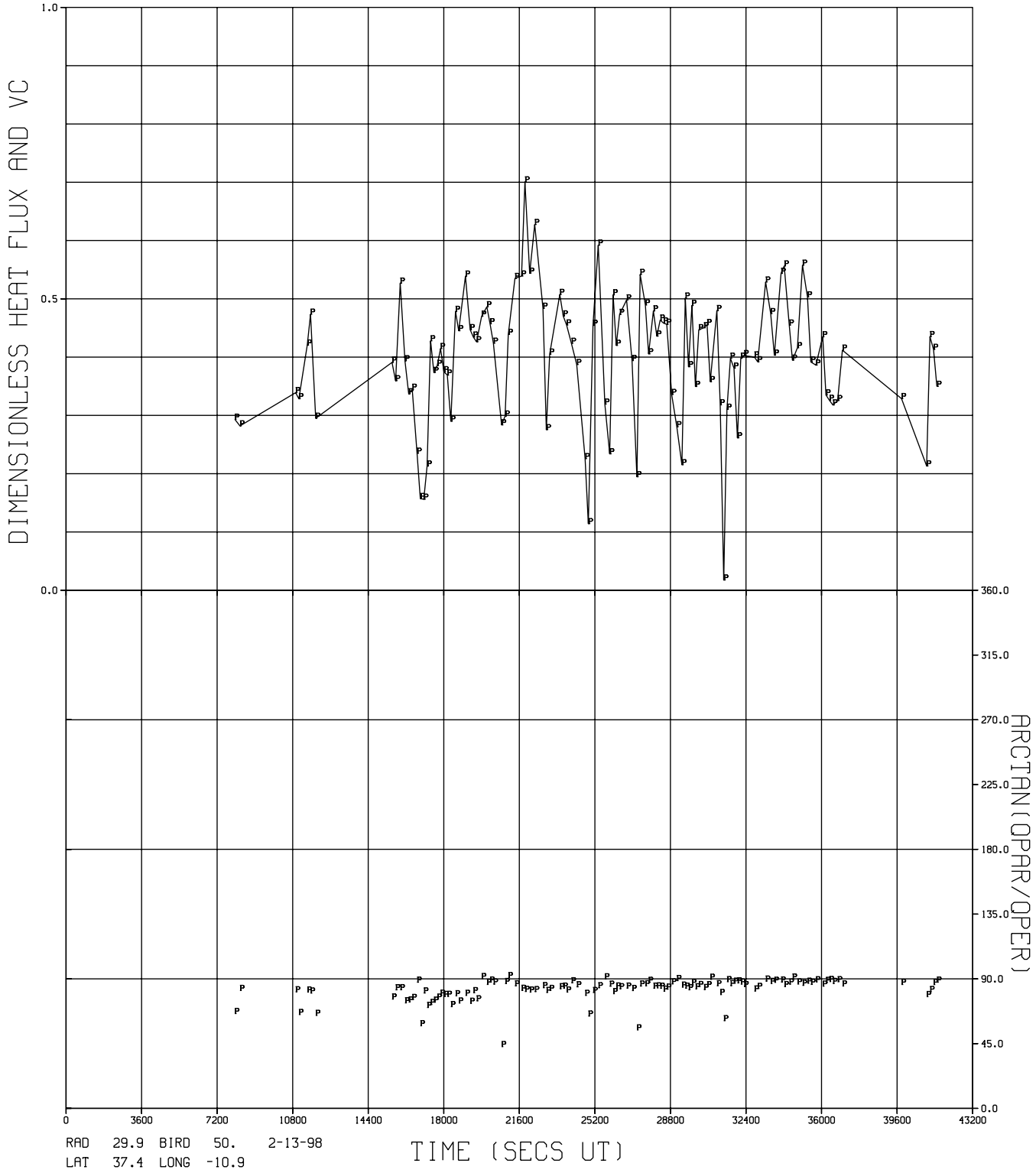

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

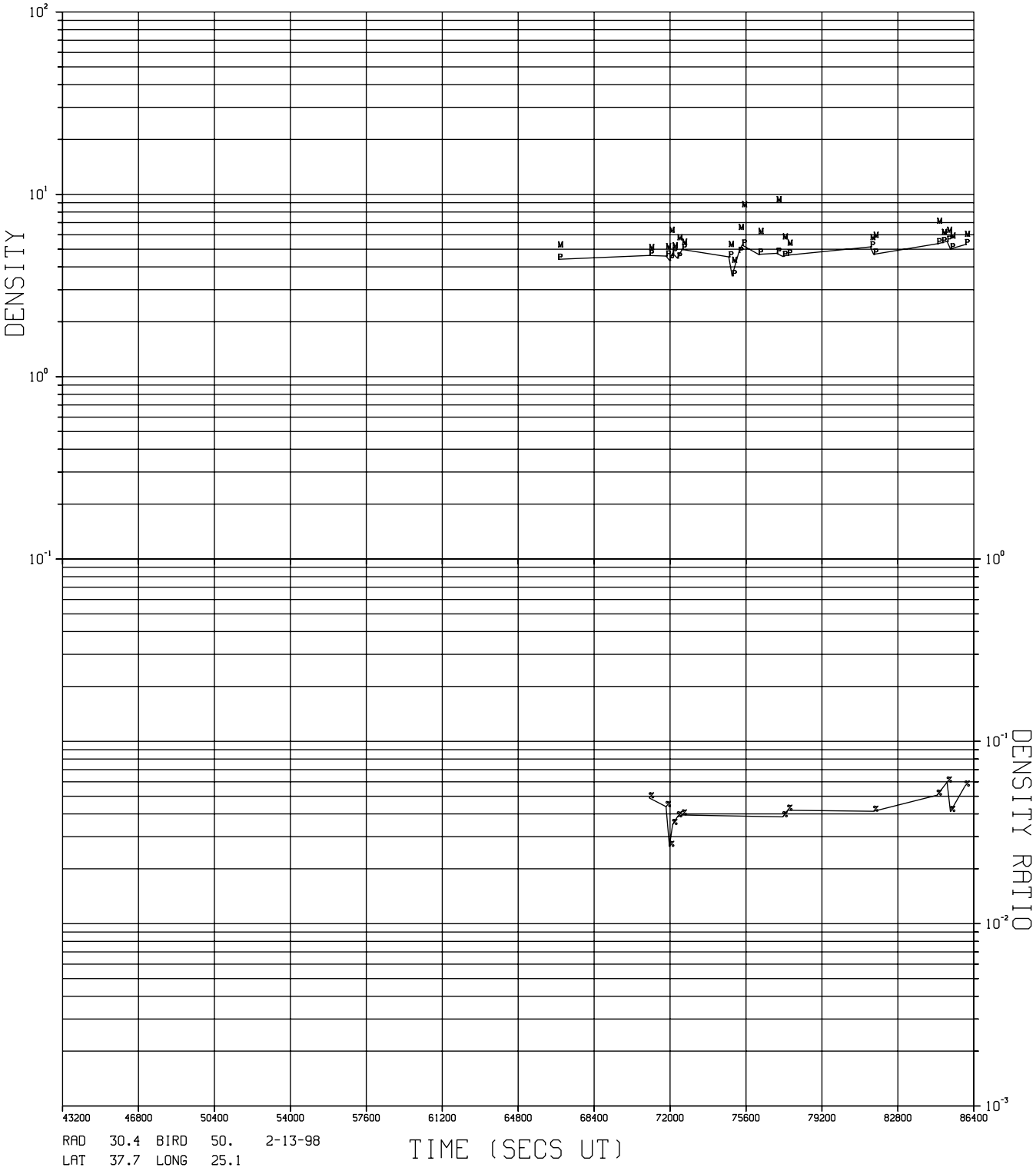

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

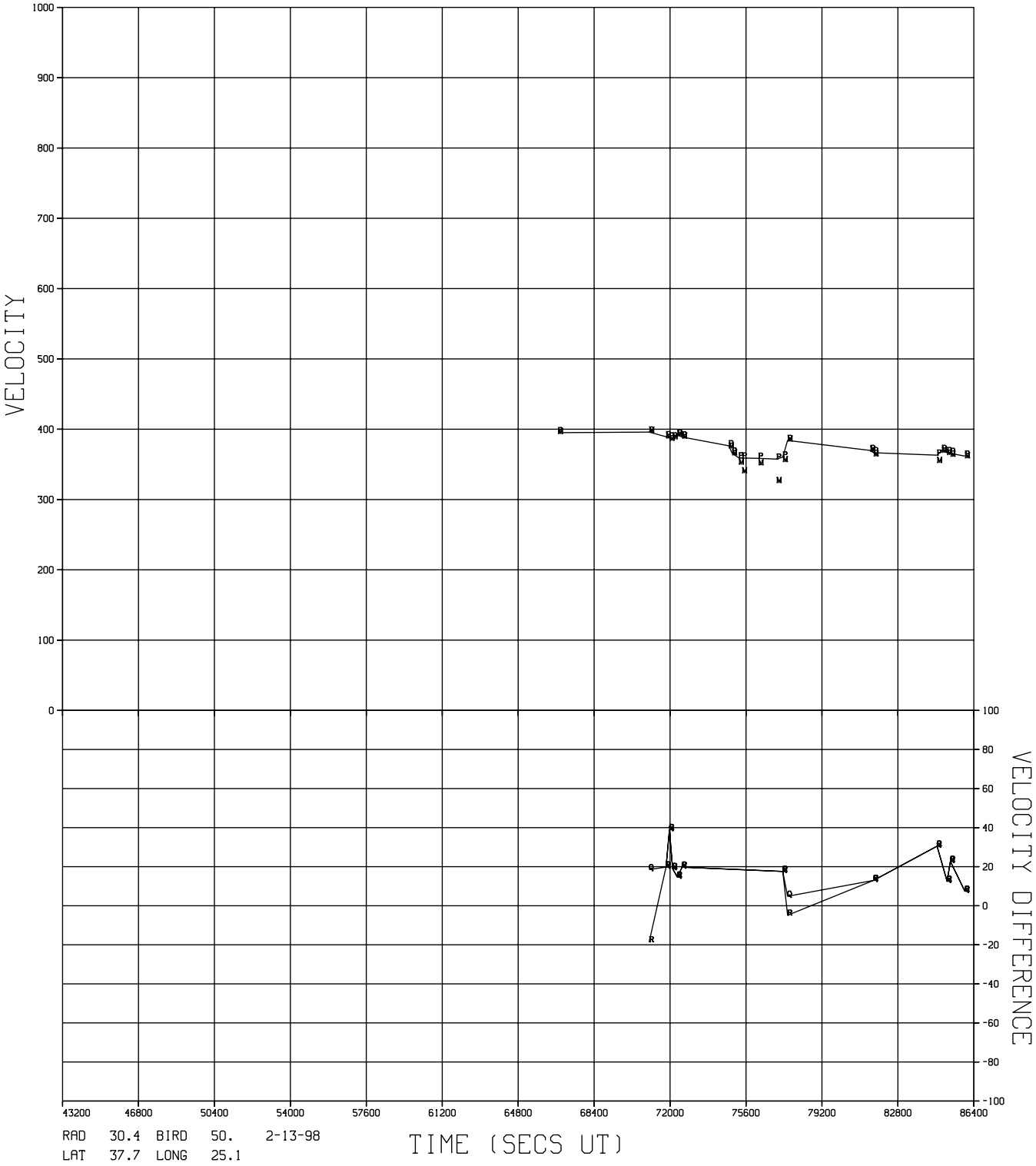

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

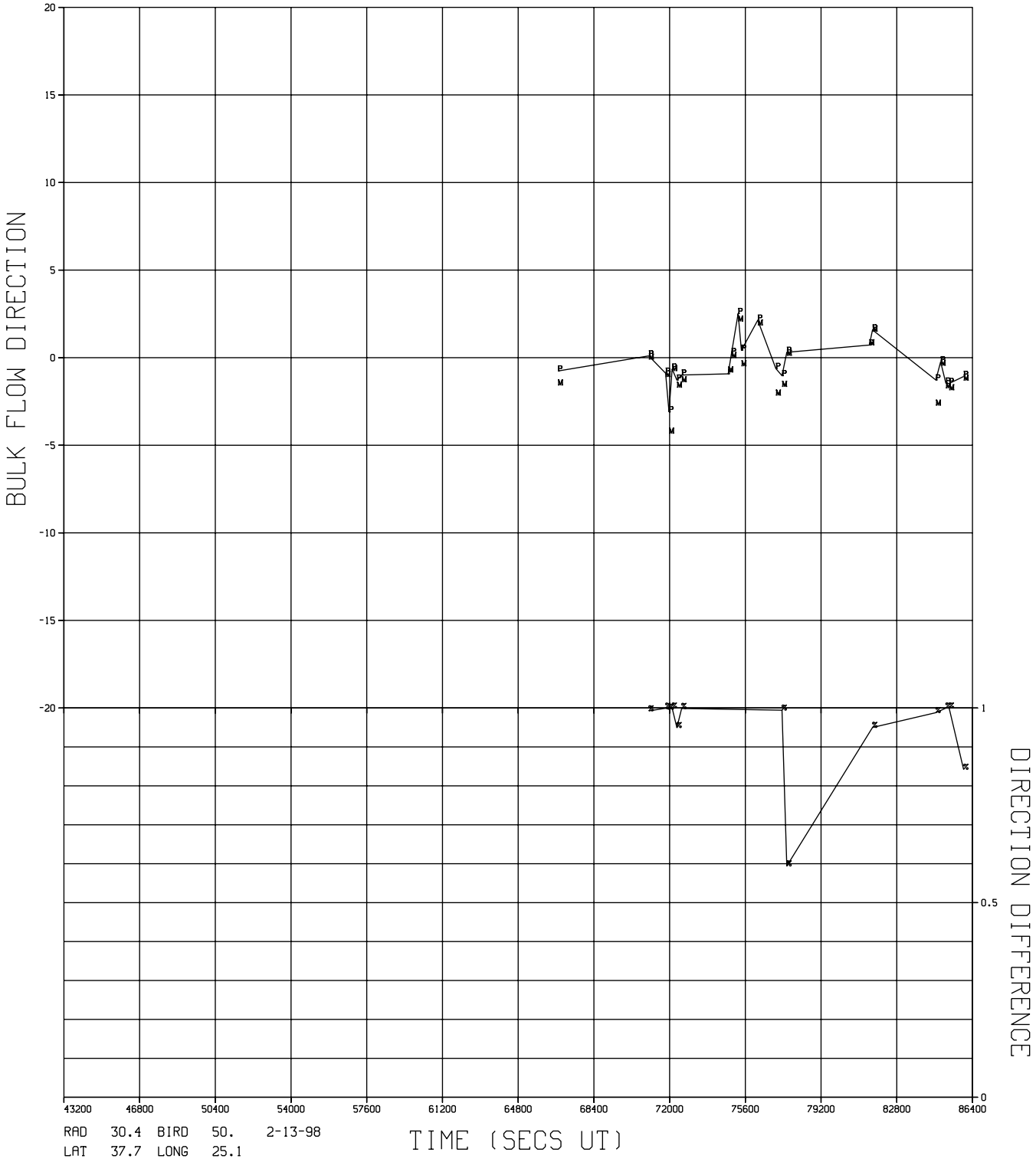

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

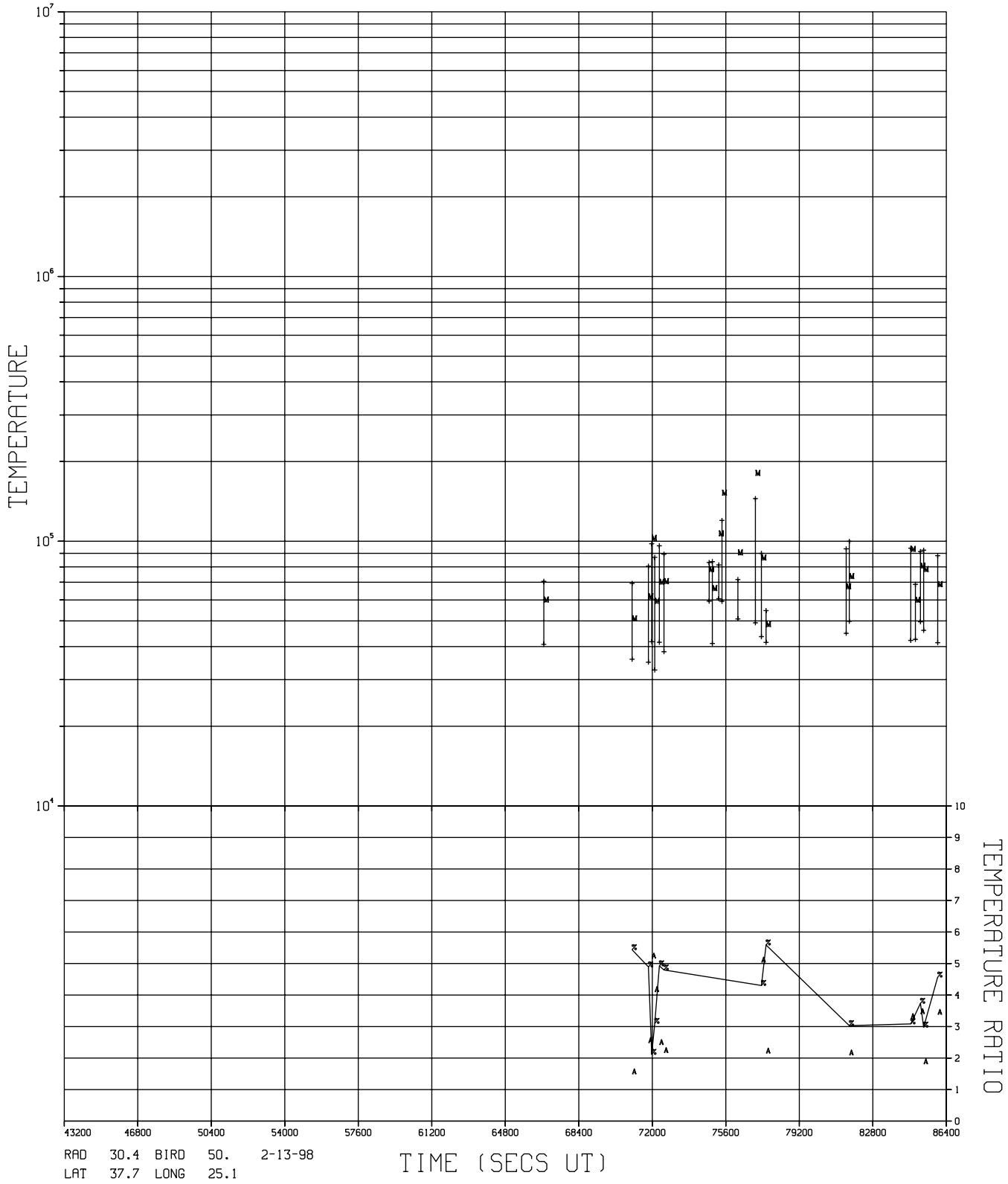

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

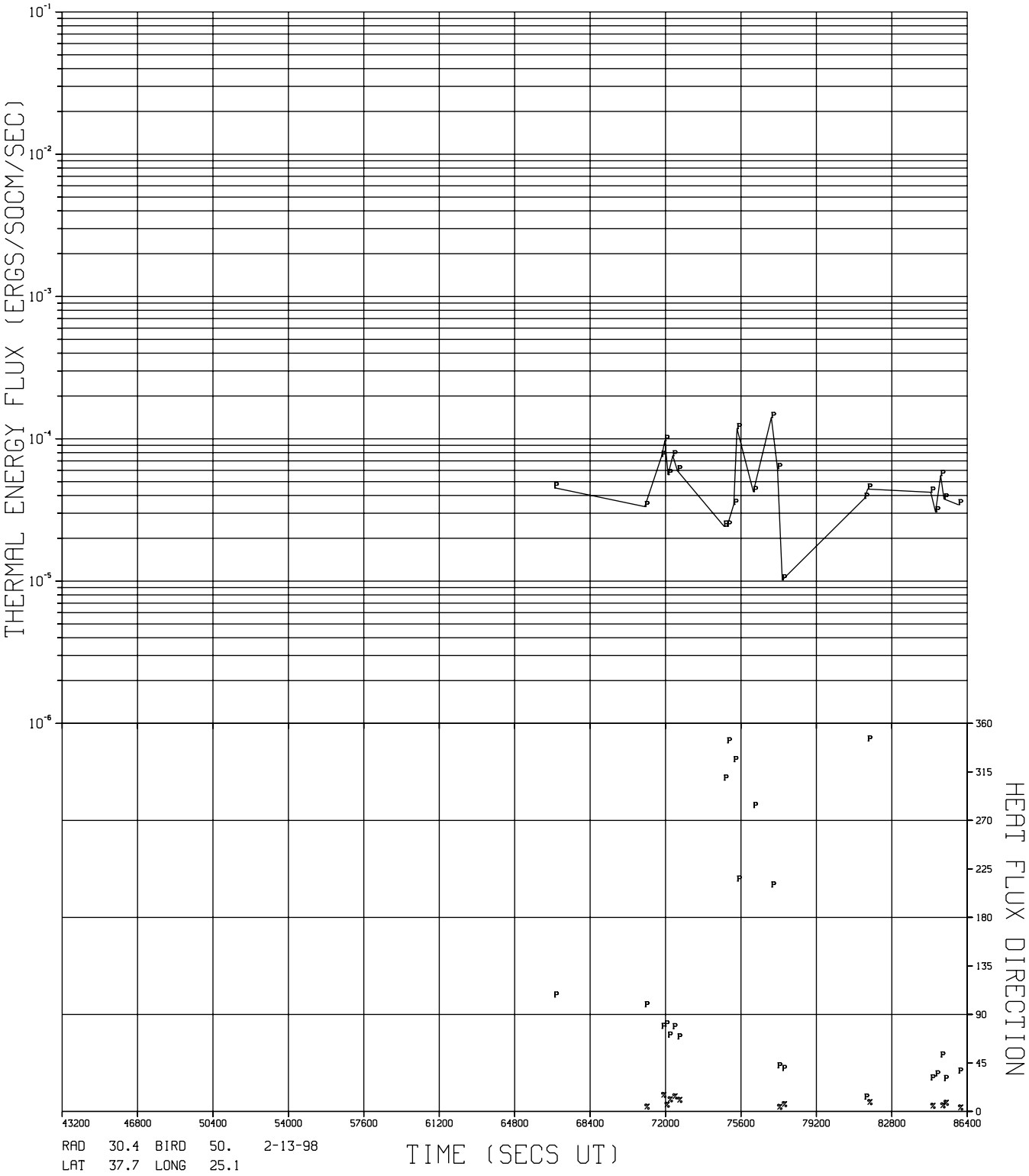

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 29.9 BIRD 50. 2-13-98
LAT 37.4 LONG -10.9

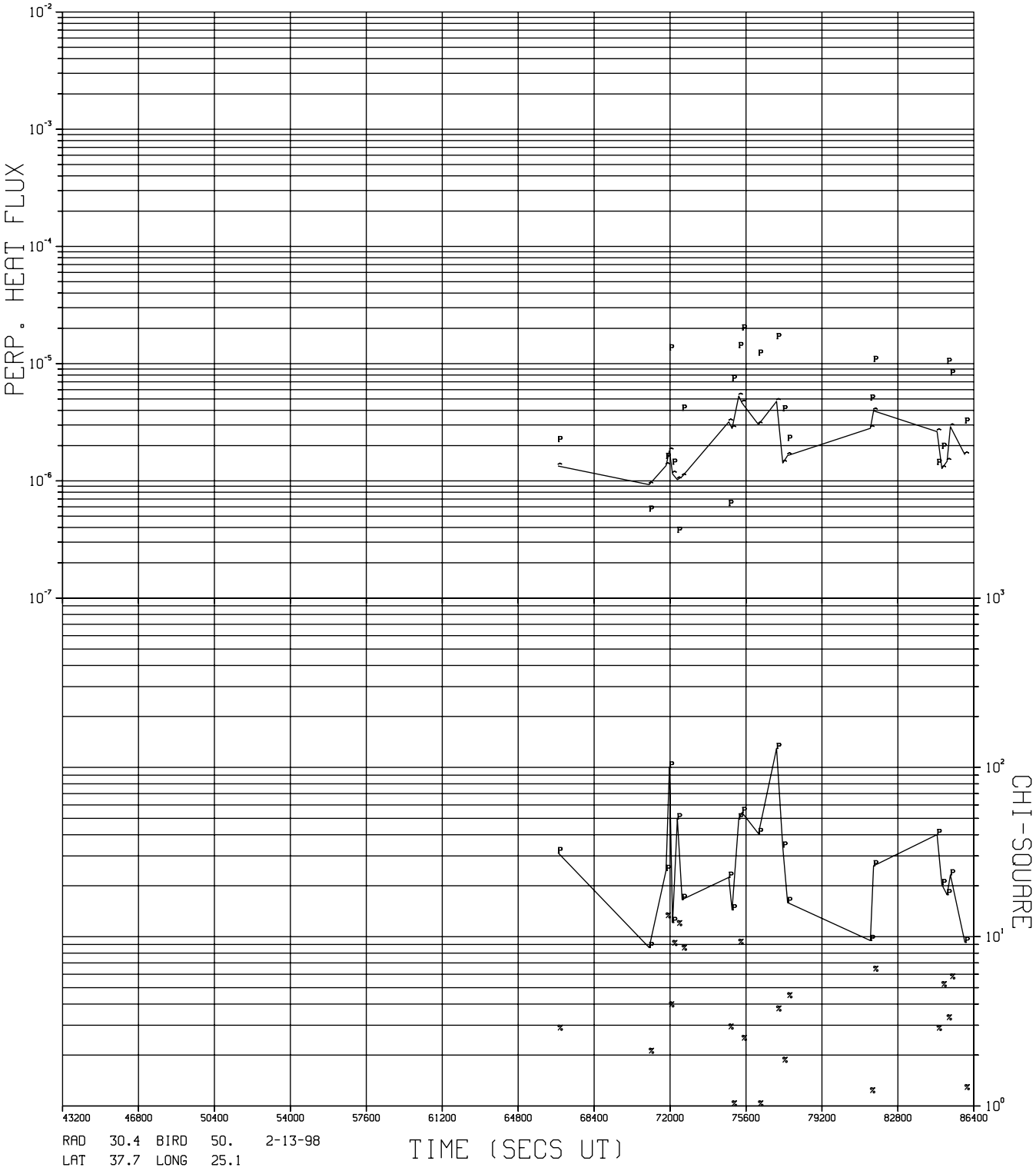

DENSITY
DENSITY RATIO
TIME (SECS UT)
10^2
10^1
10^0
10^{-1}
10^{-2}
10^{-3}
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

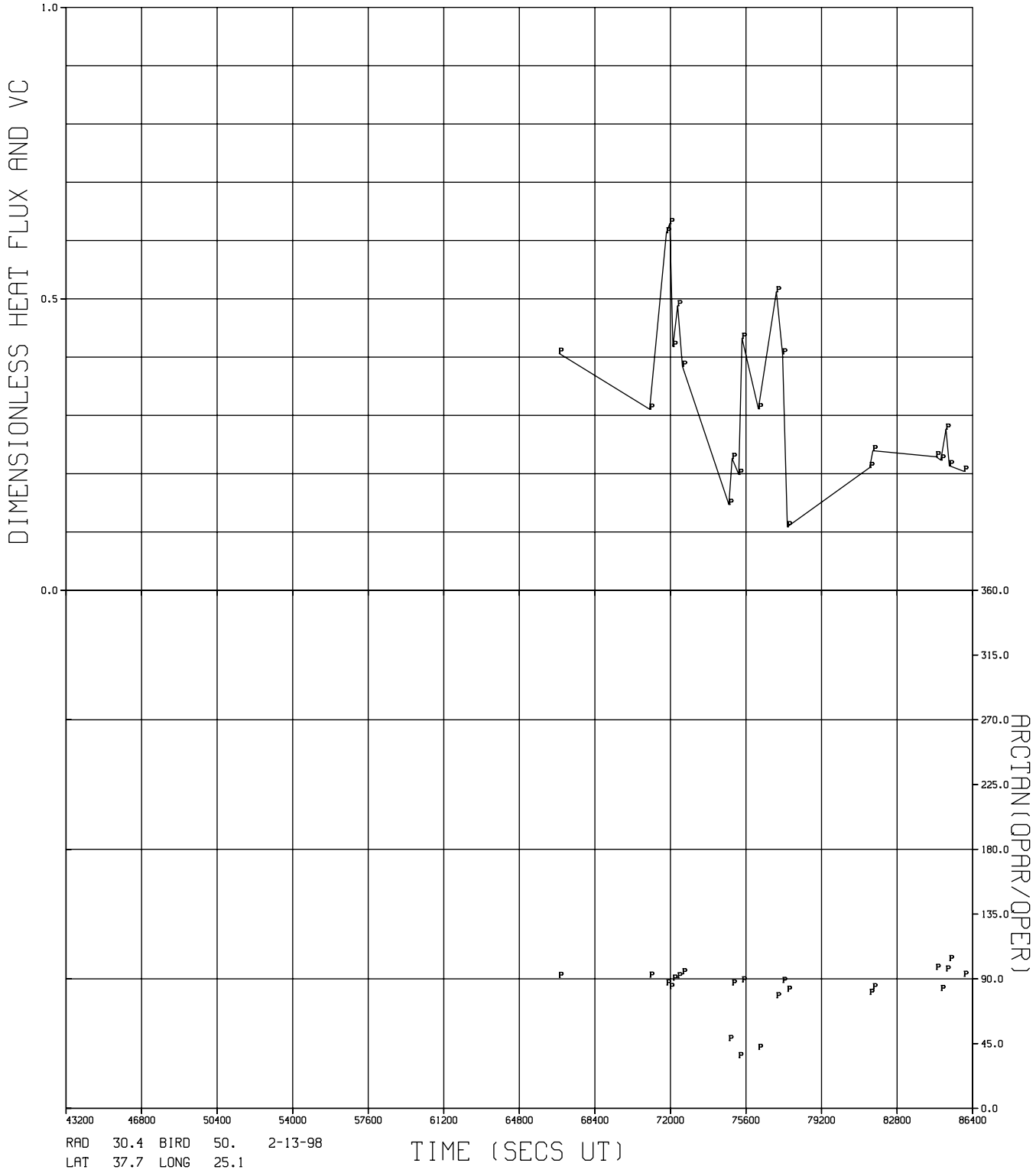

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

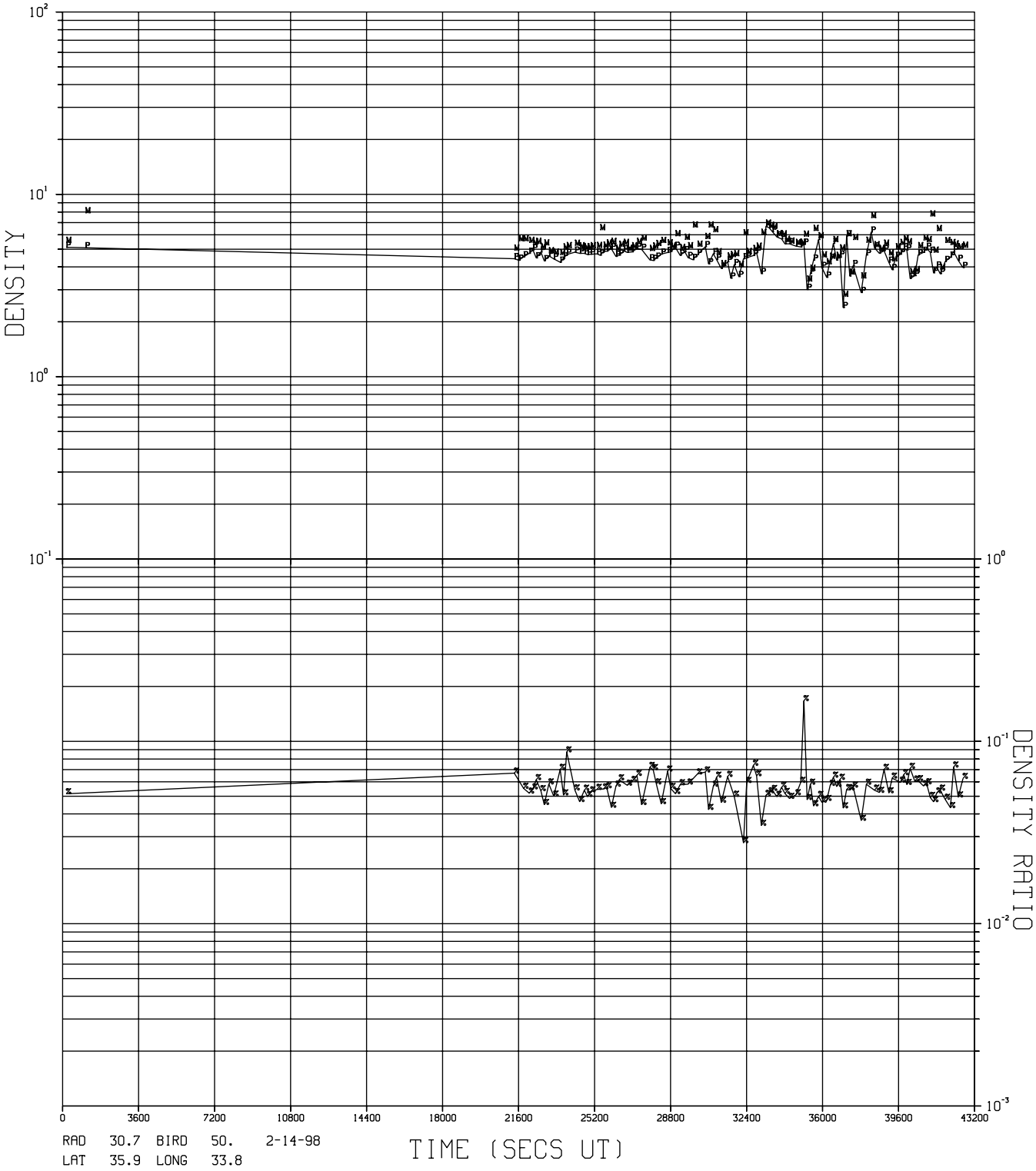

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

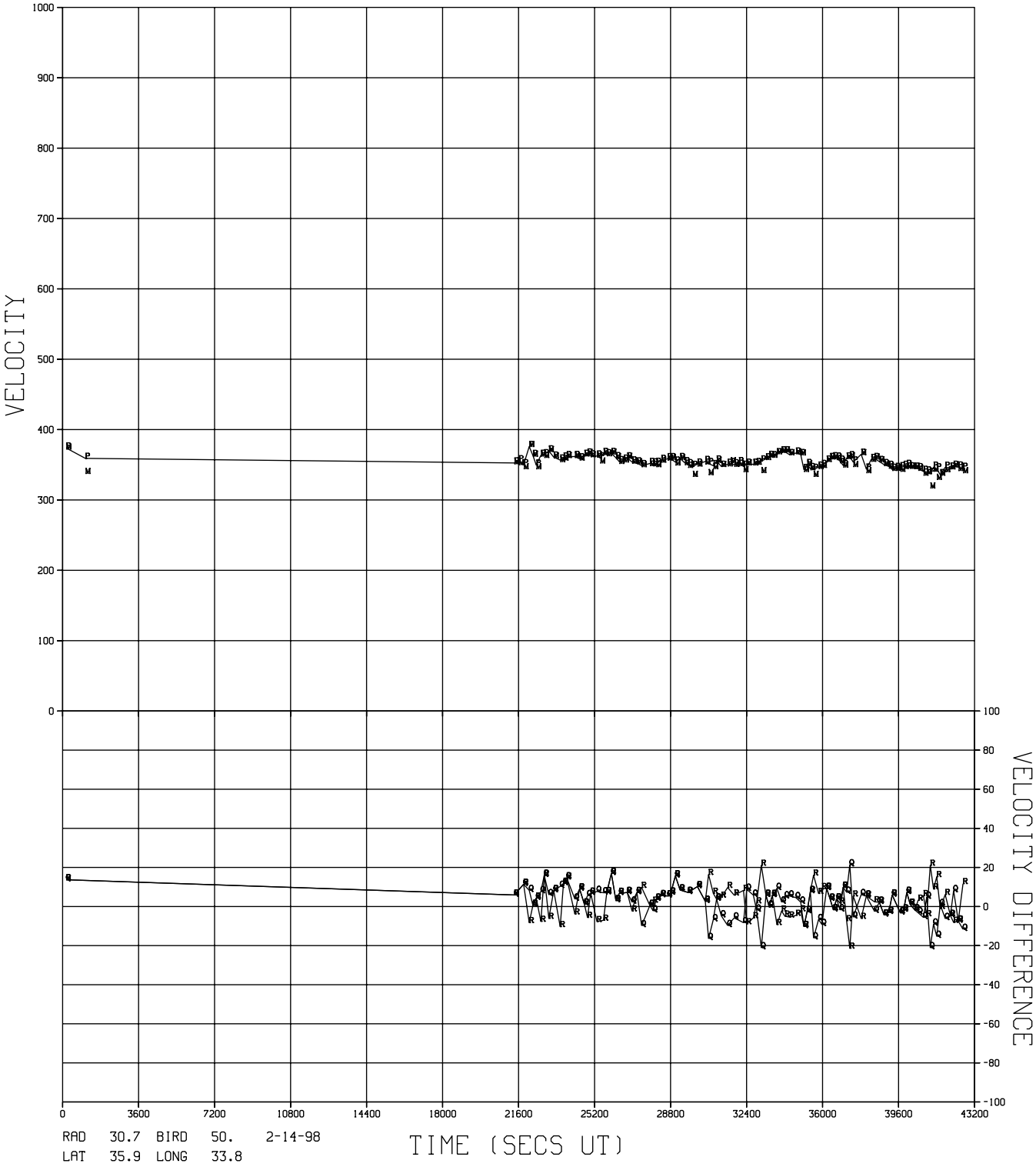

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

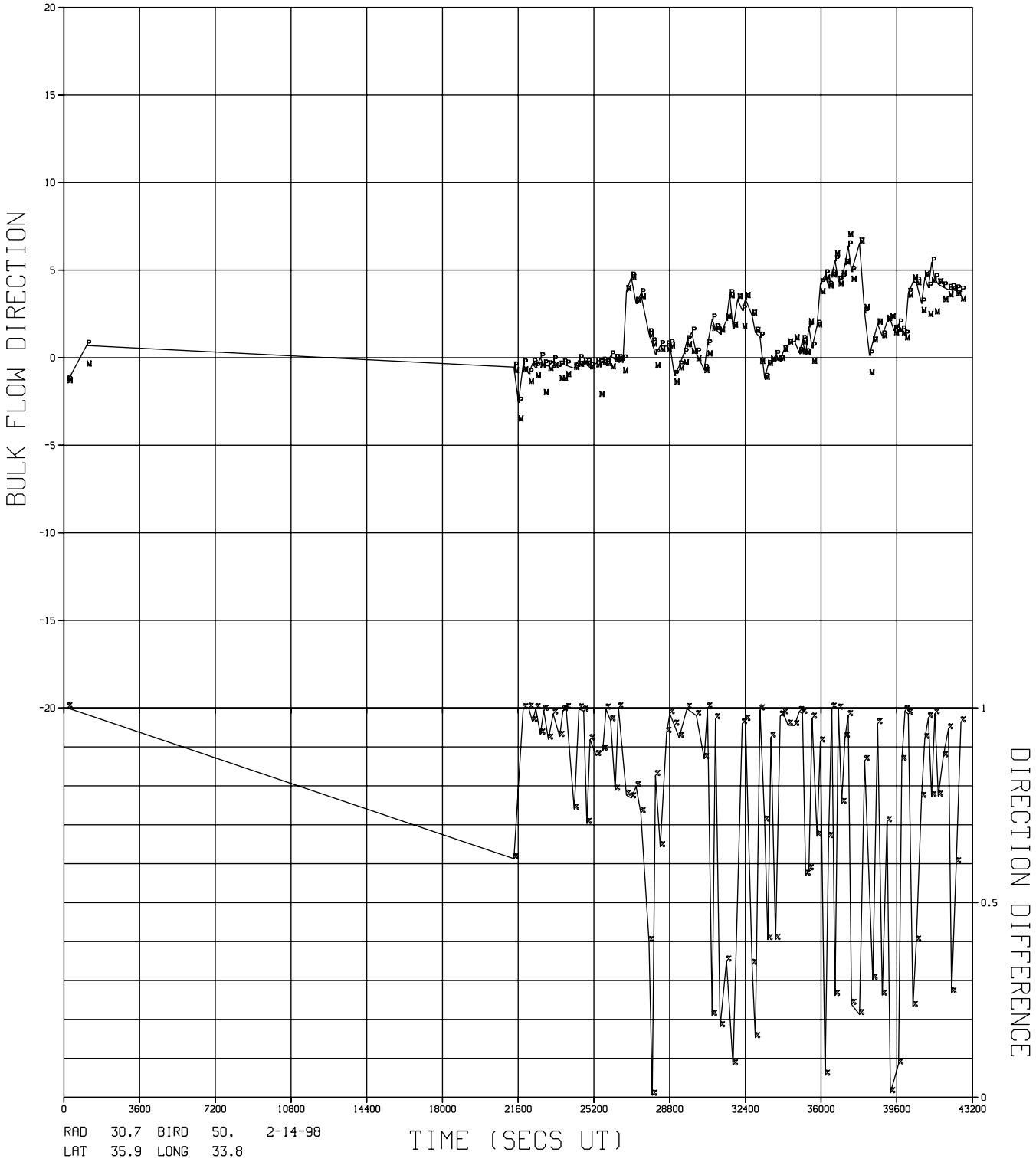

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

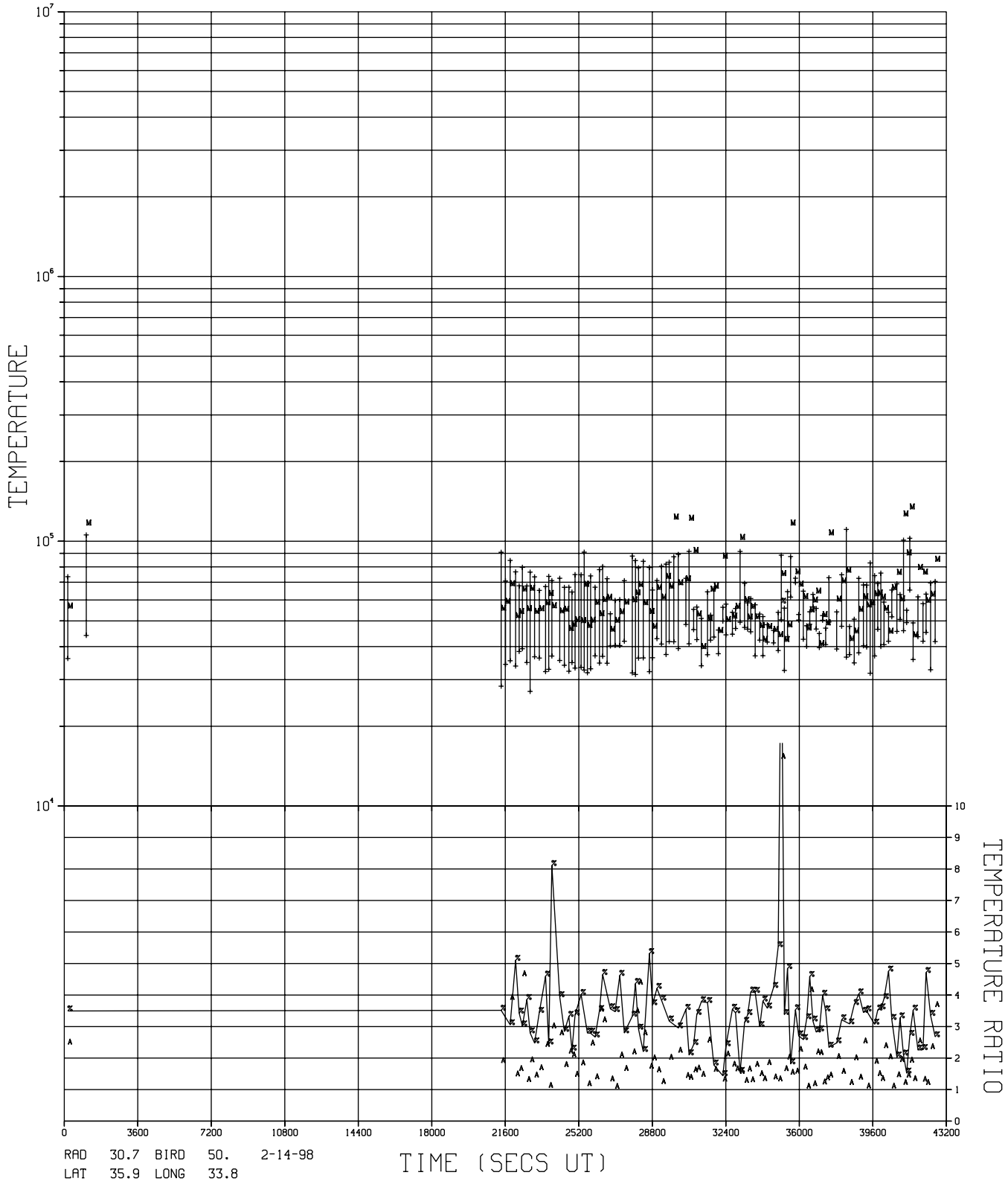

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

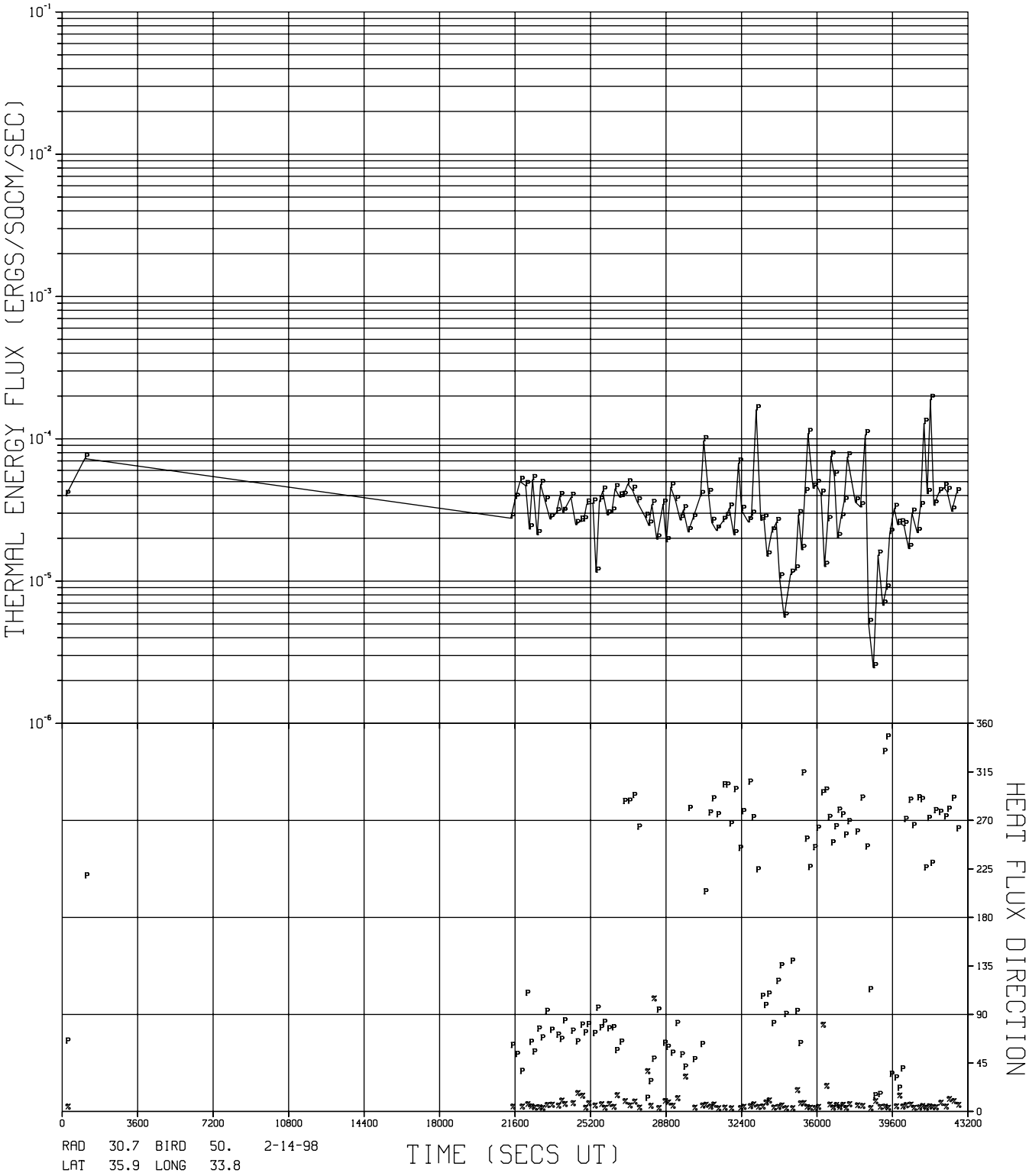

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 30.4 BIRD 50. 2-13-98
LAT 37.7 LONG 25.1

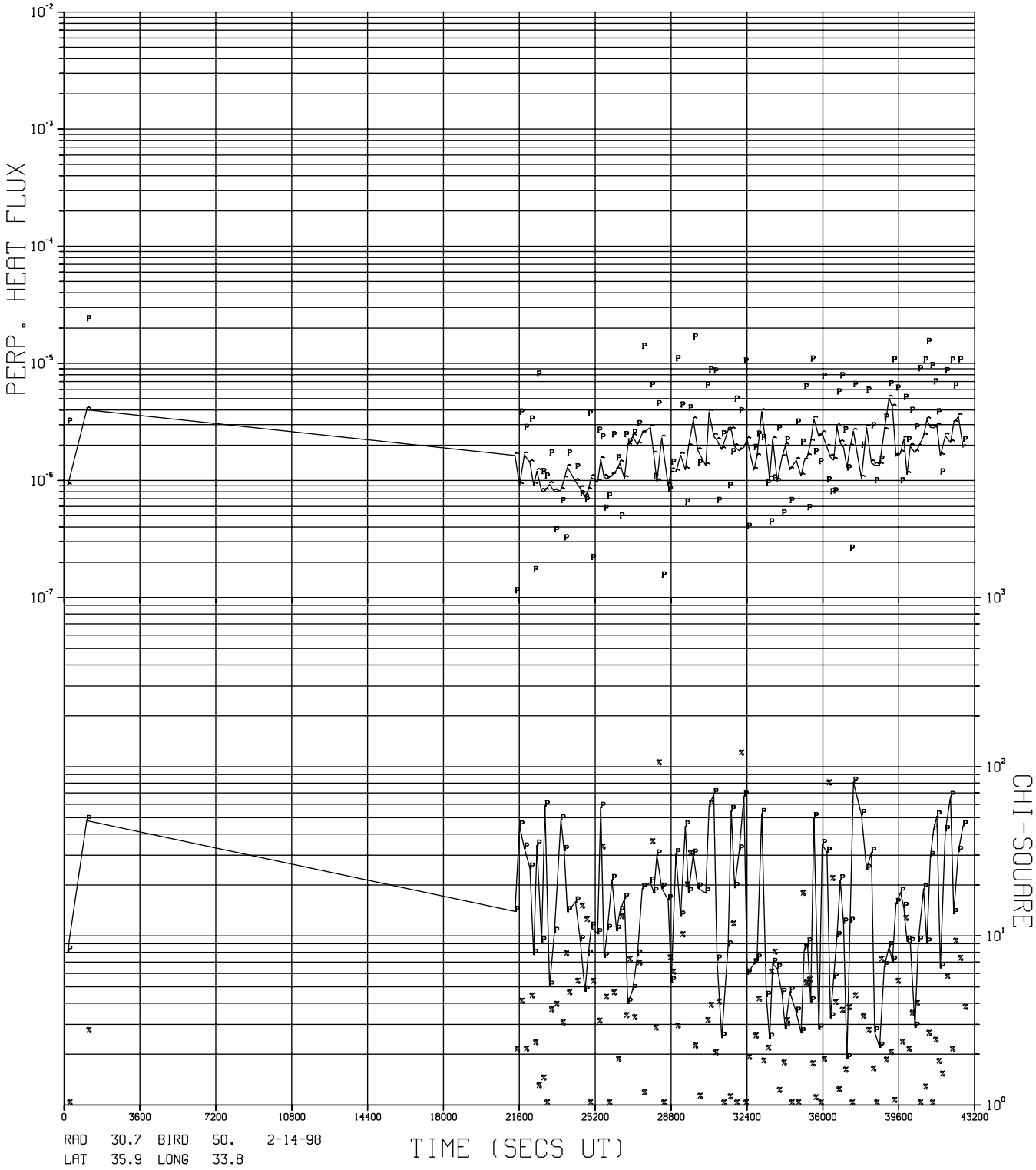

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

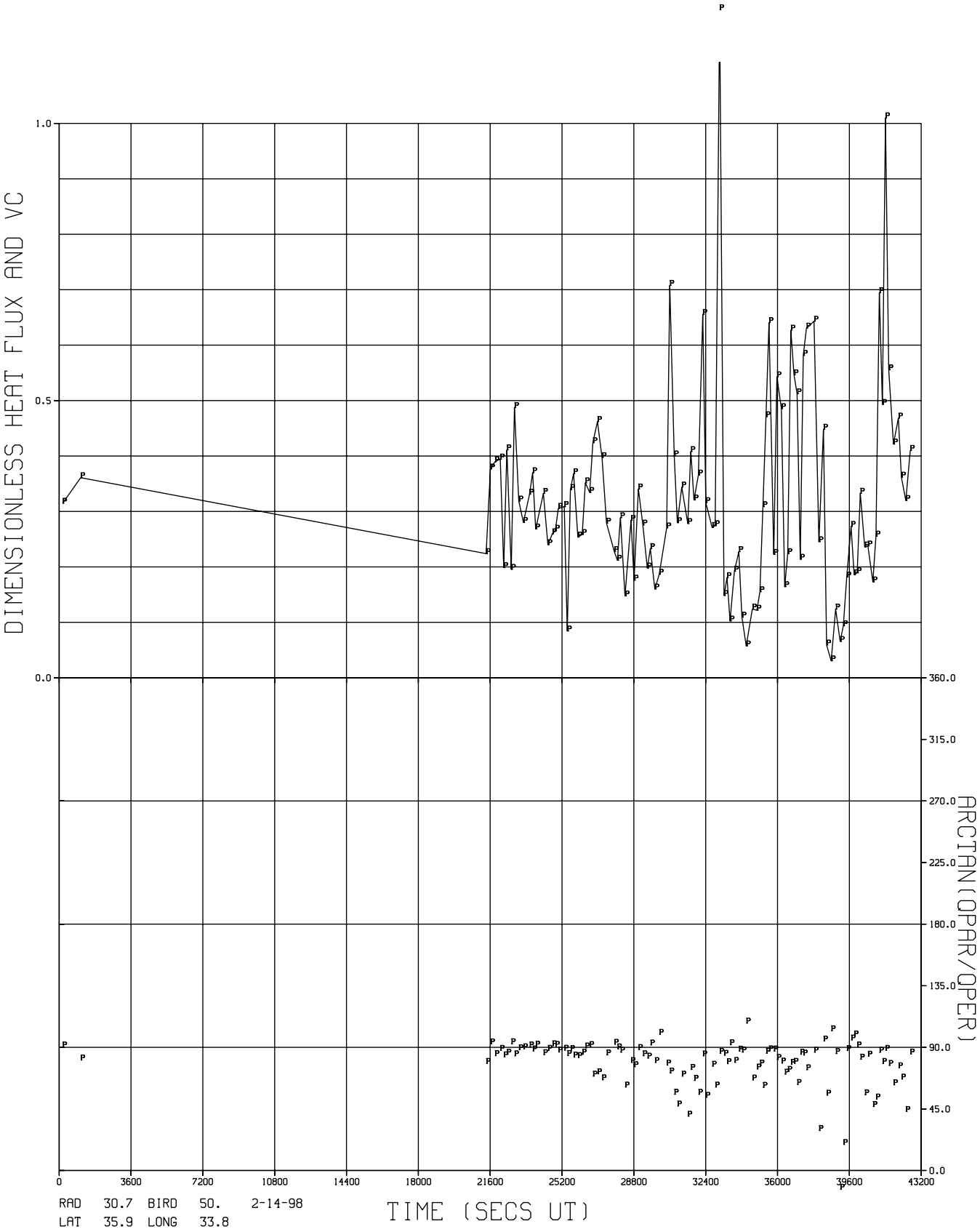

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

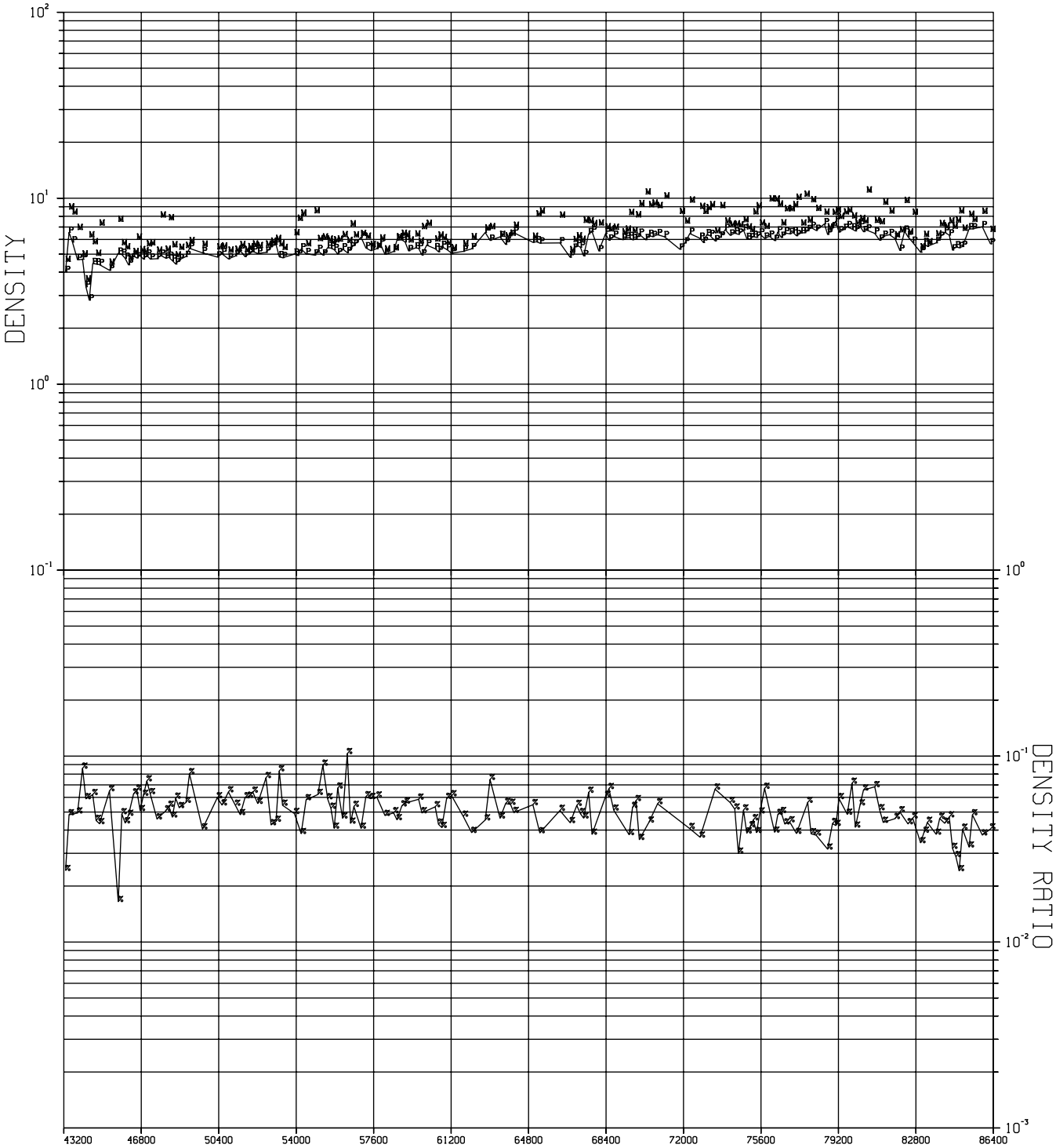

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

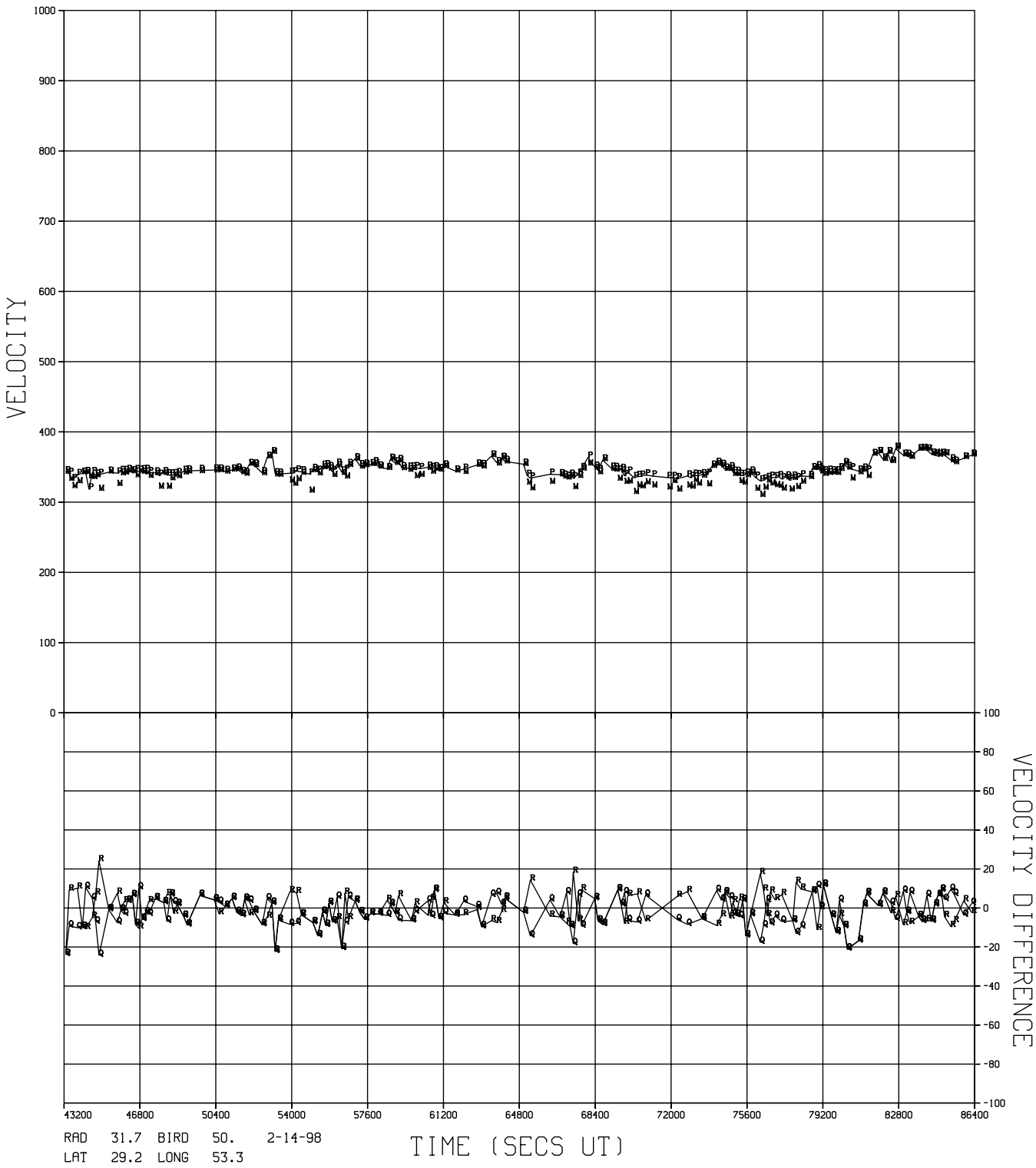

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

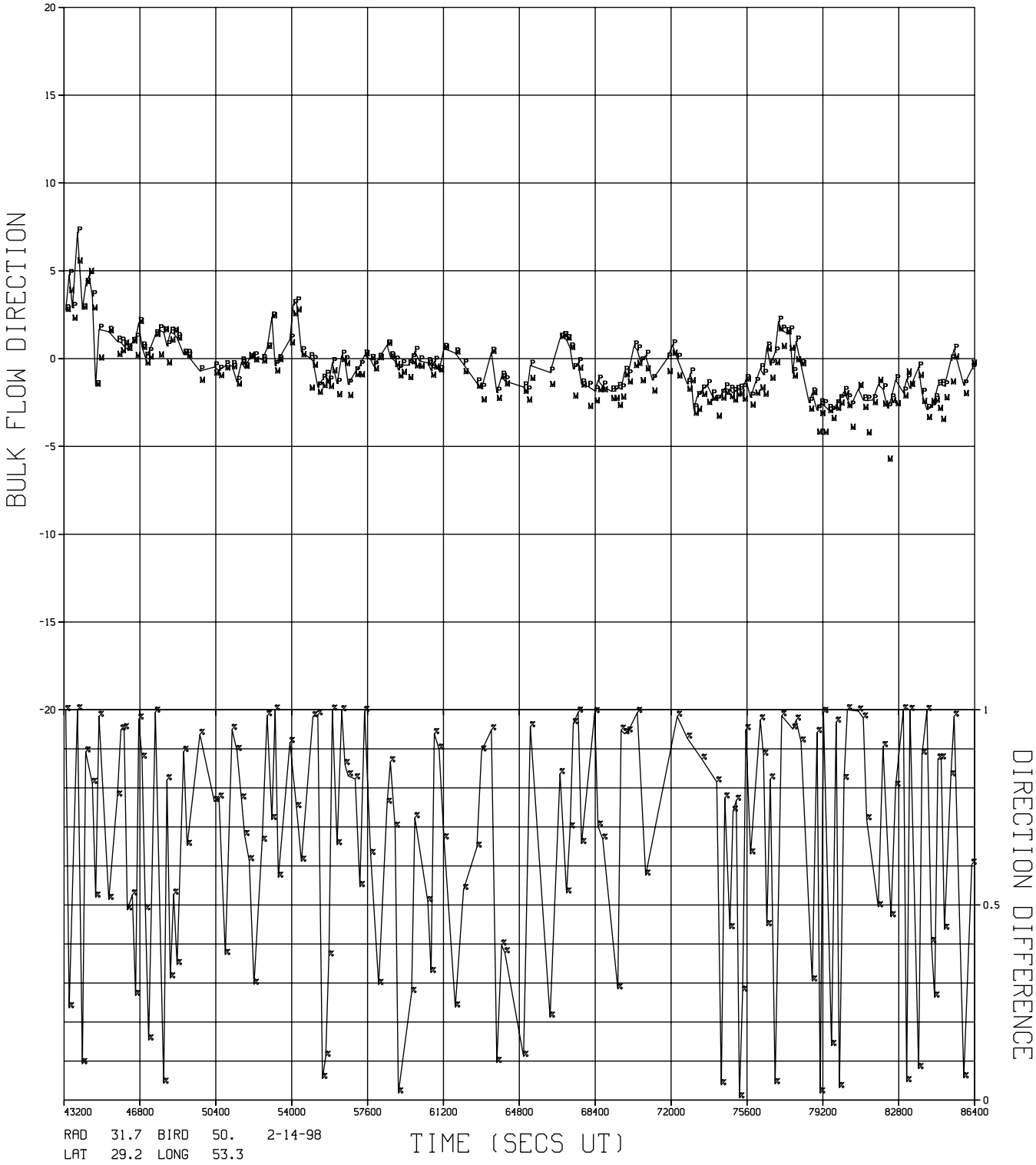

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

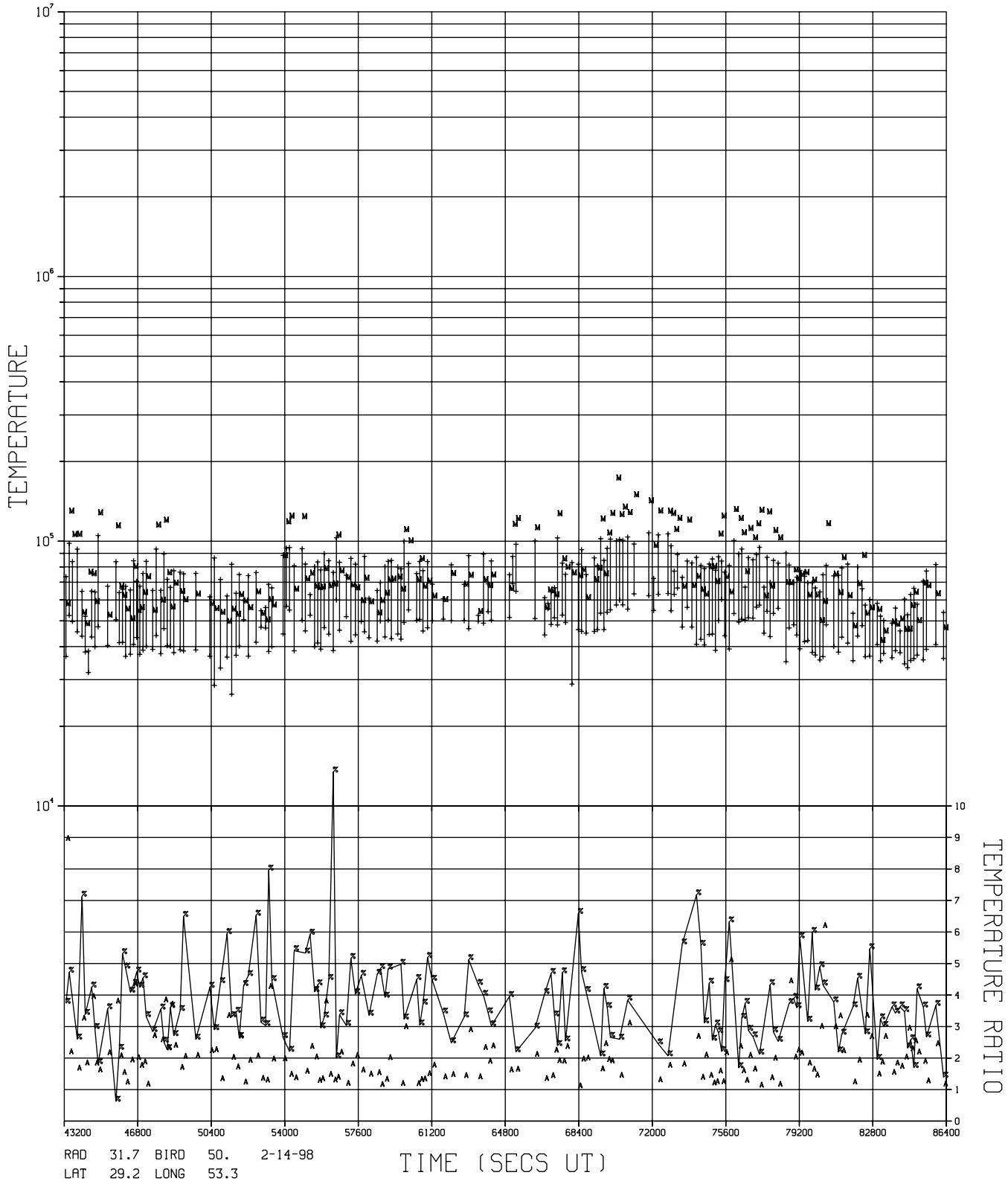

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 30.7 BIRD 50. 2-14-98
LAT 35.9 LONG 33.8

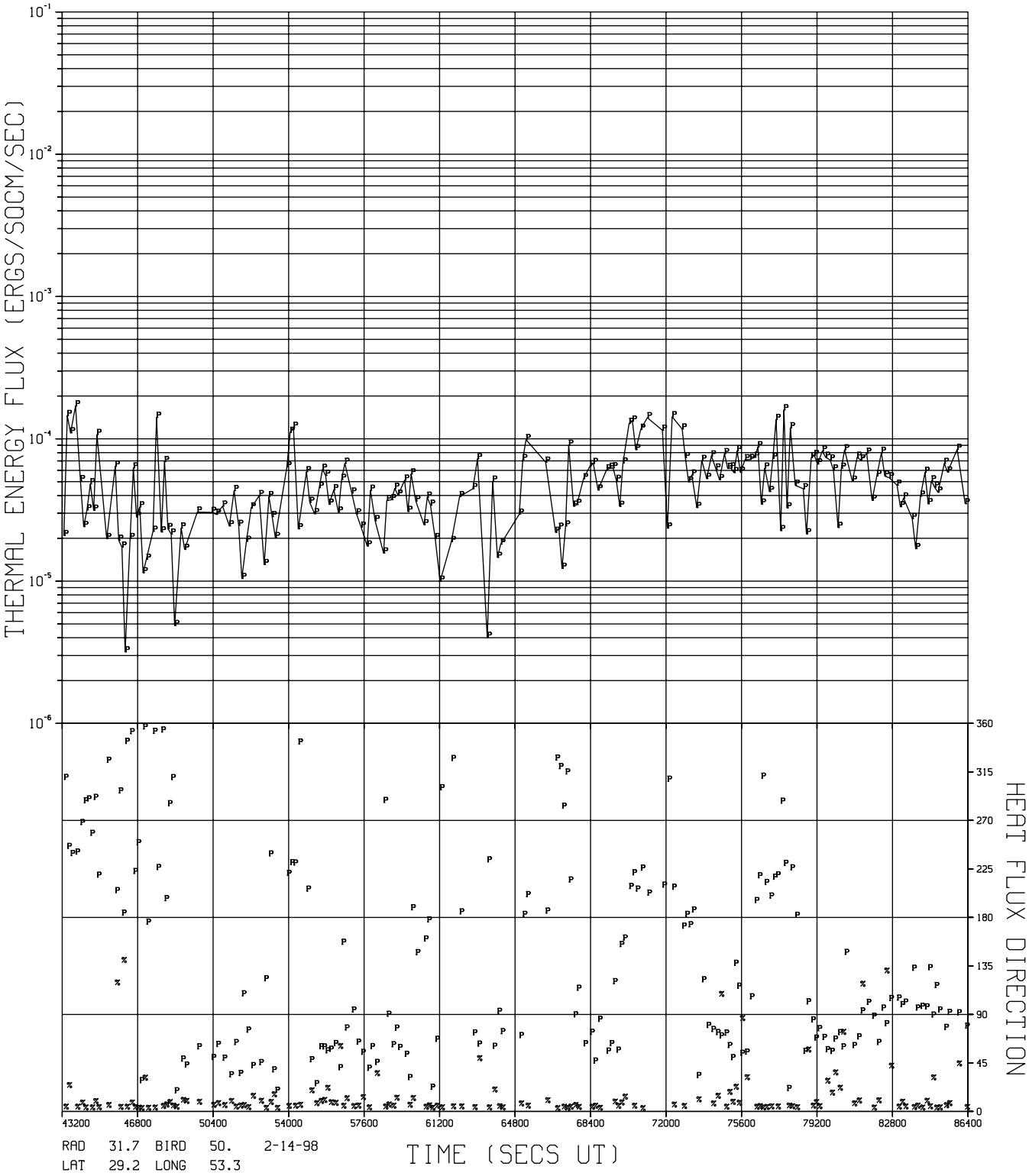


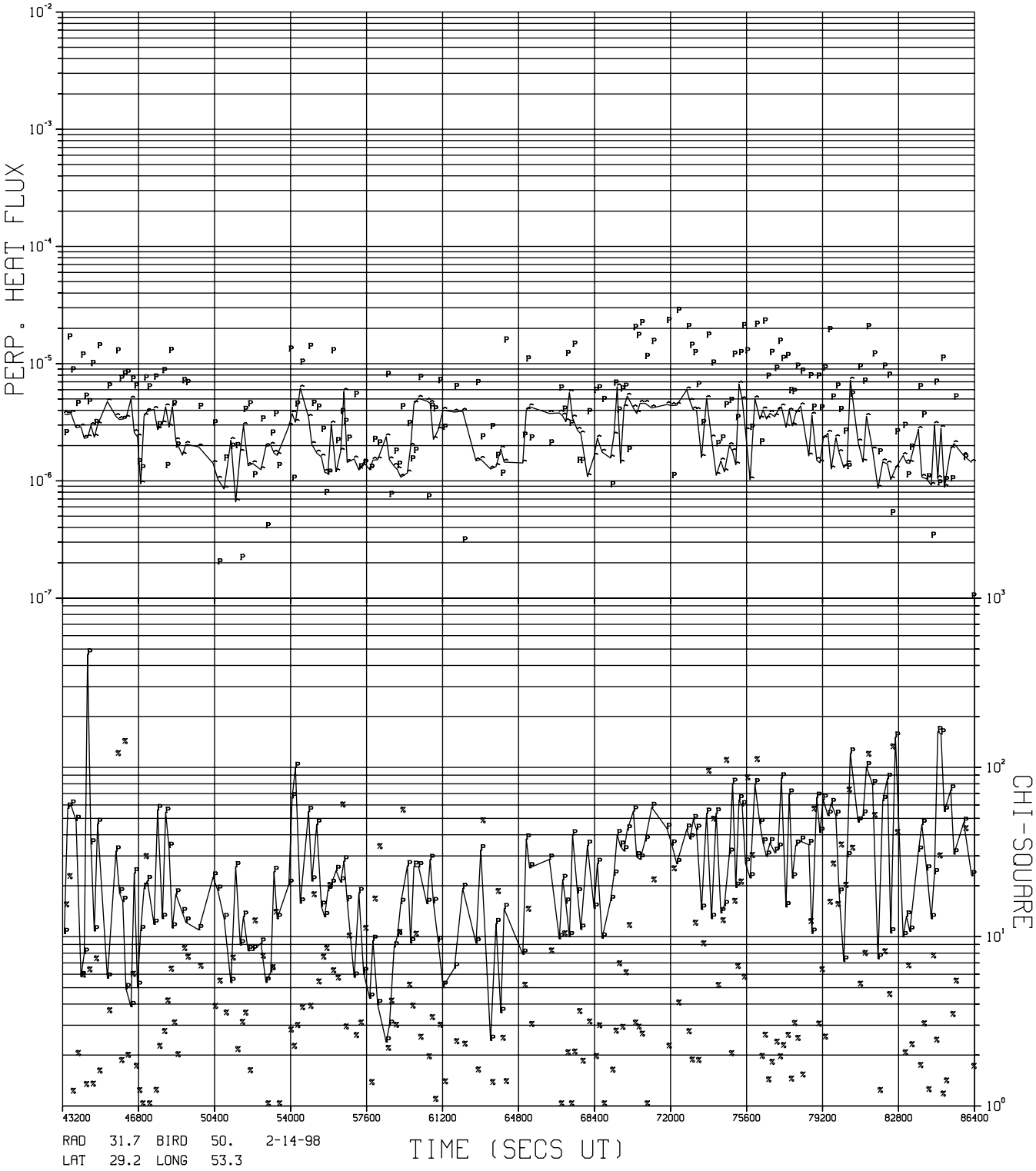
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

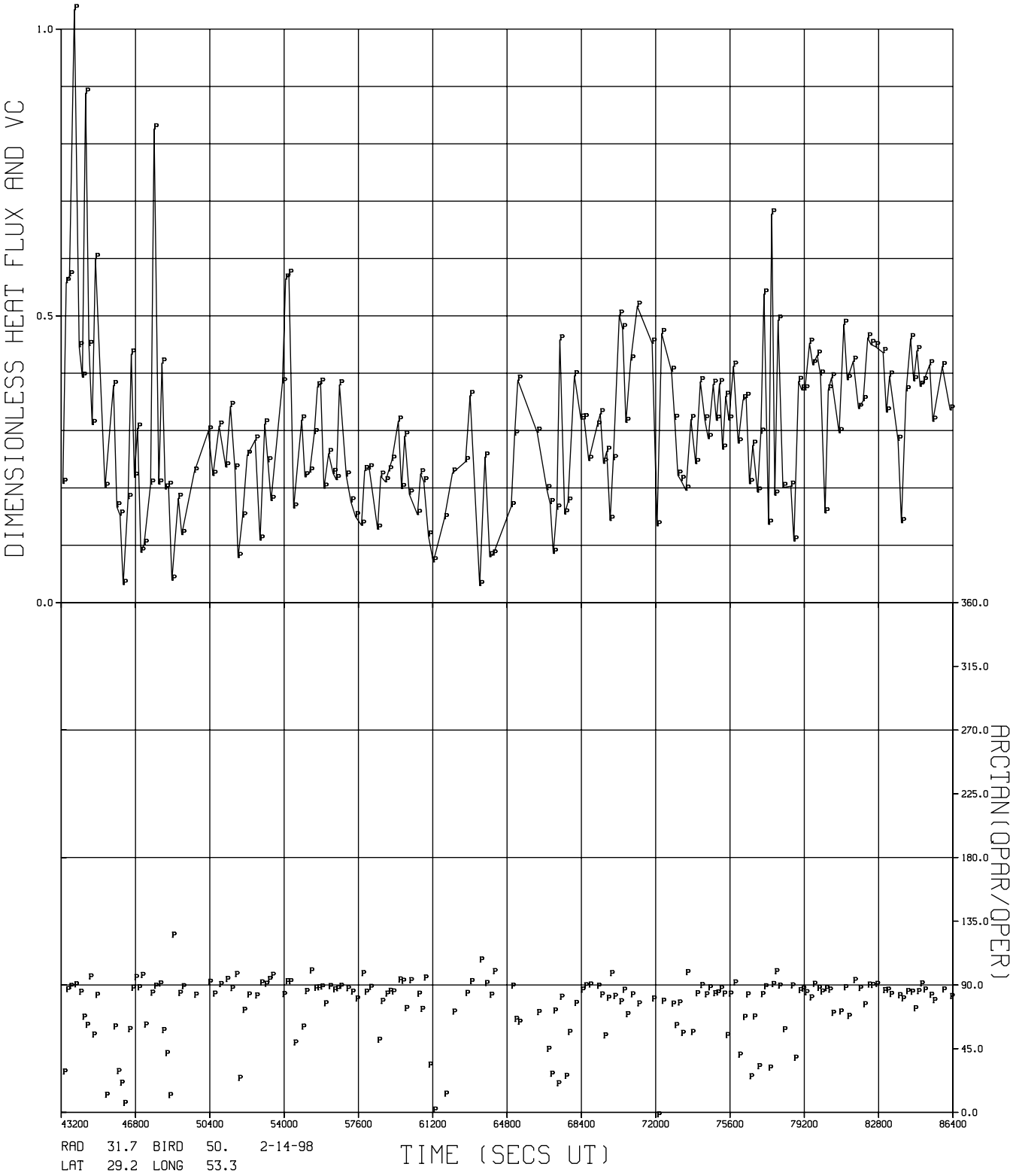

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

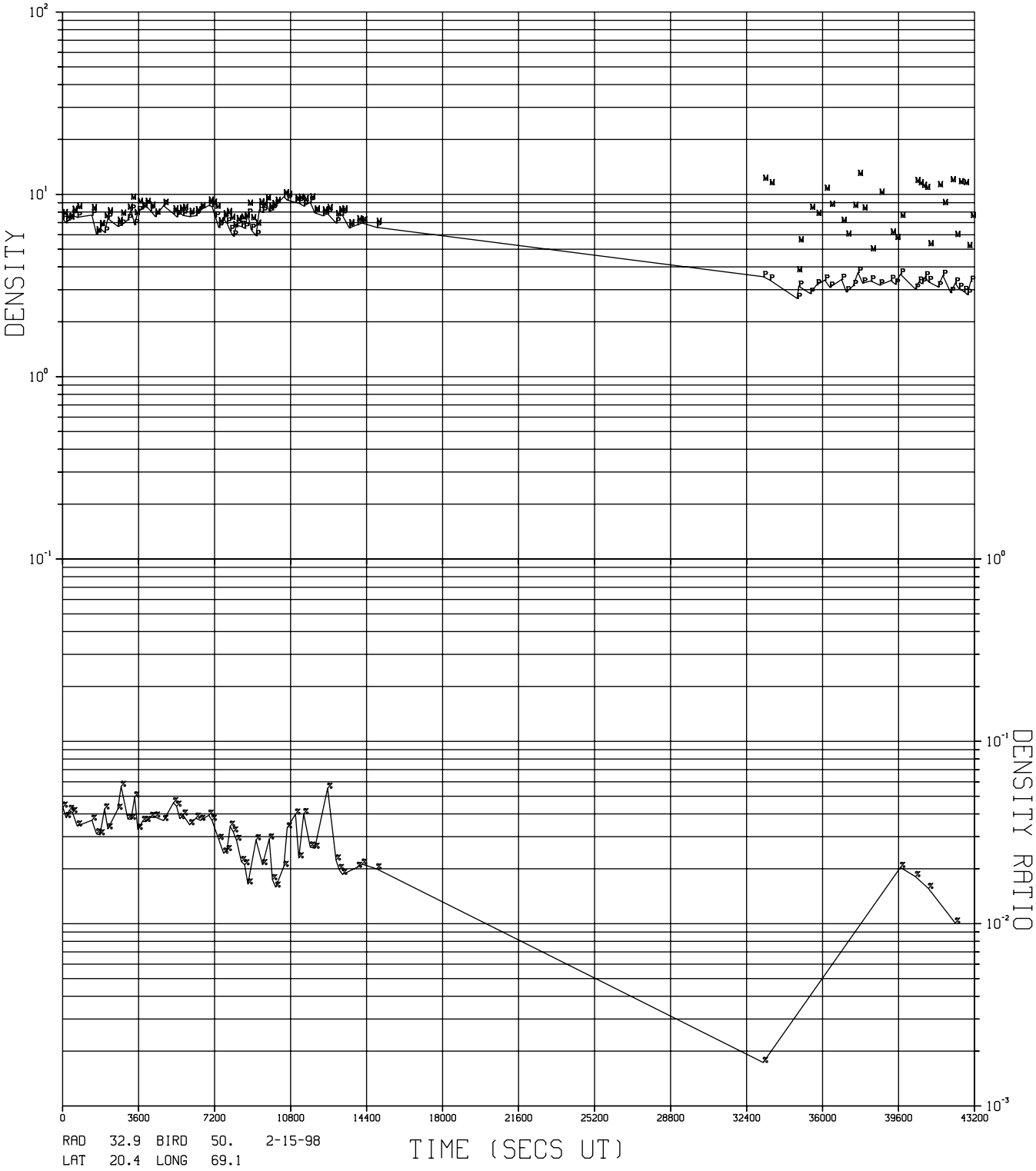

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

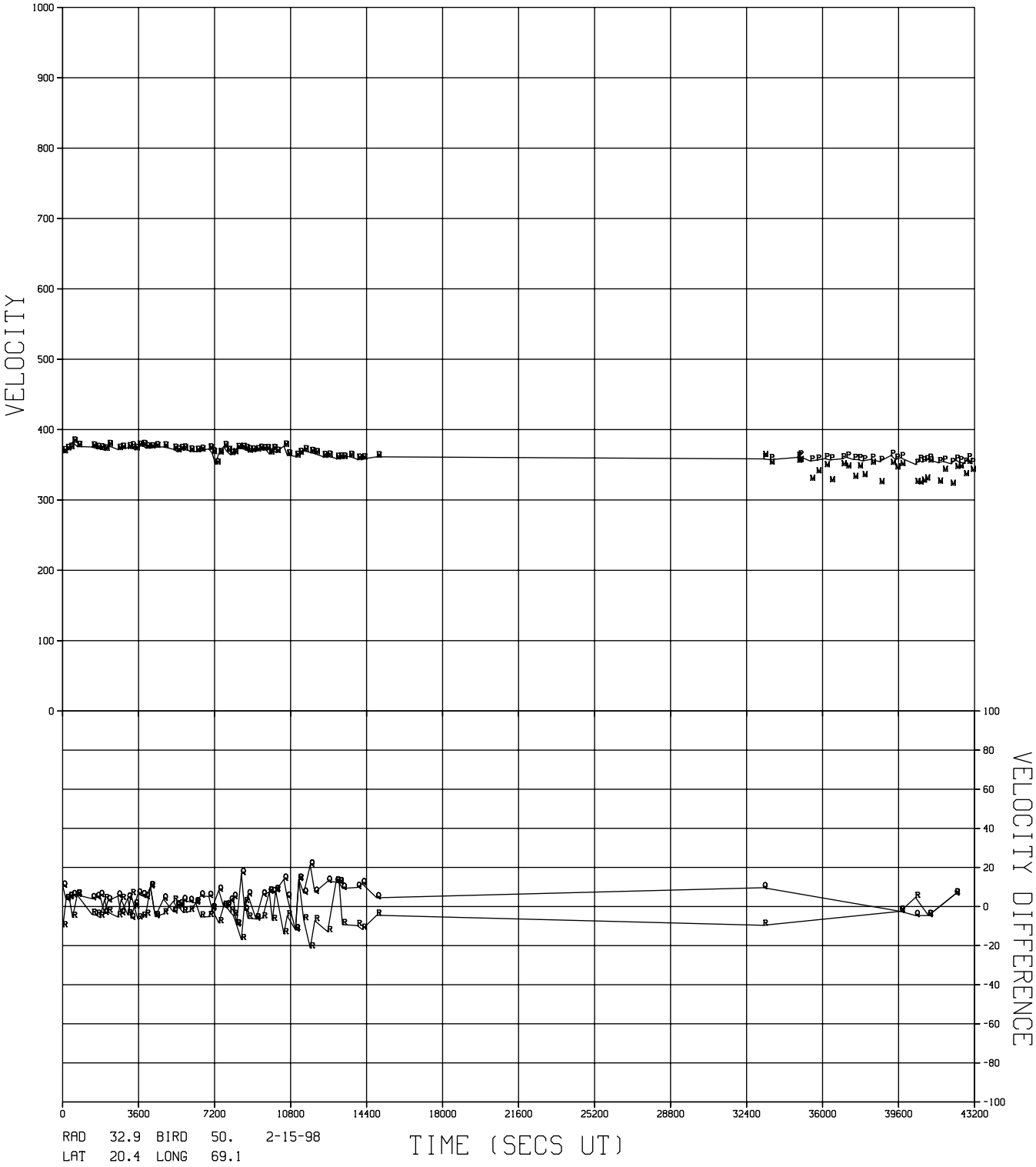

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

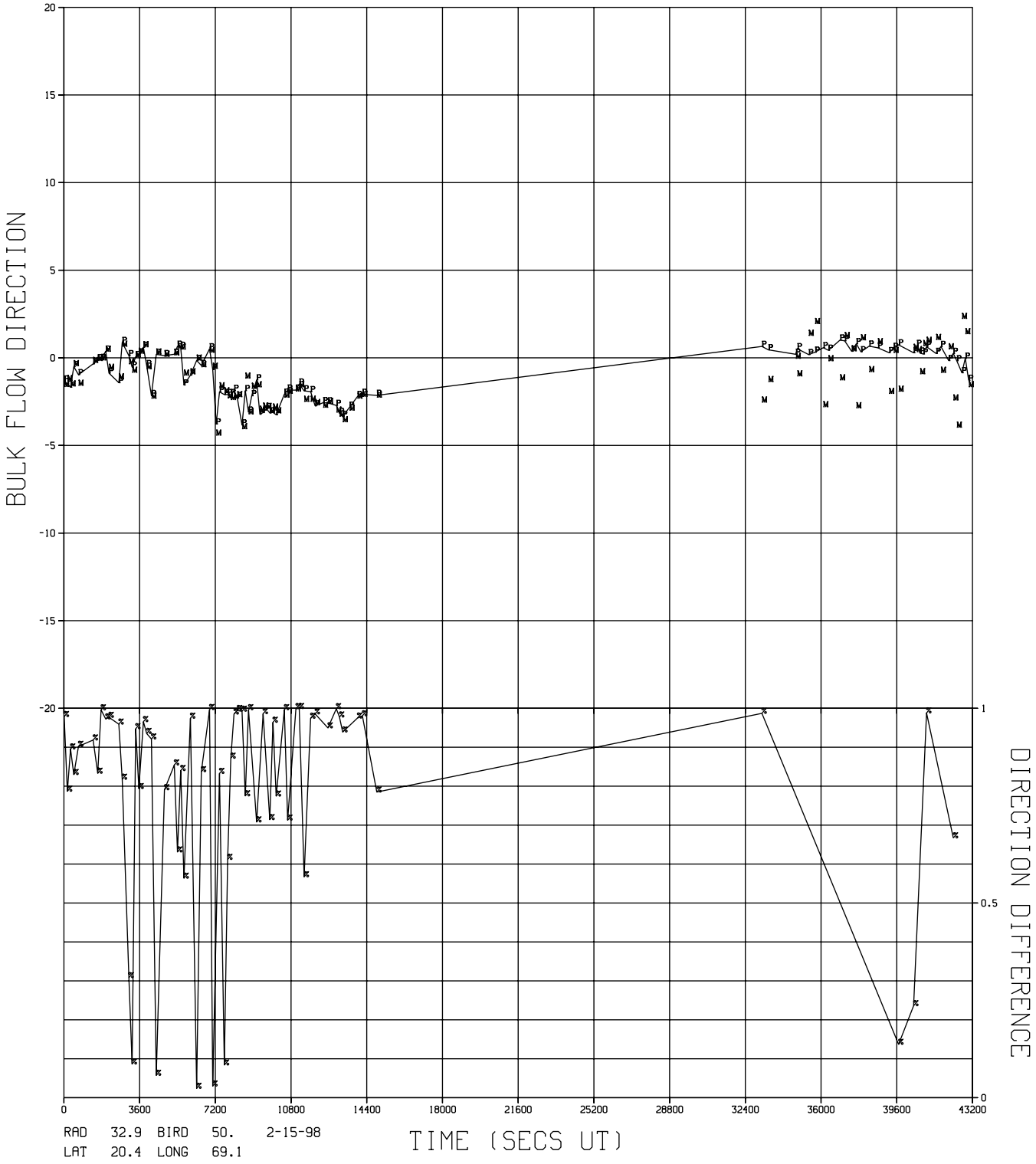

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

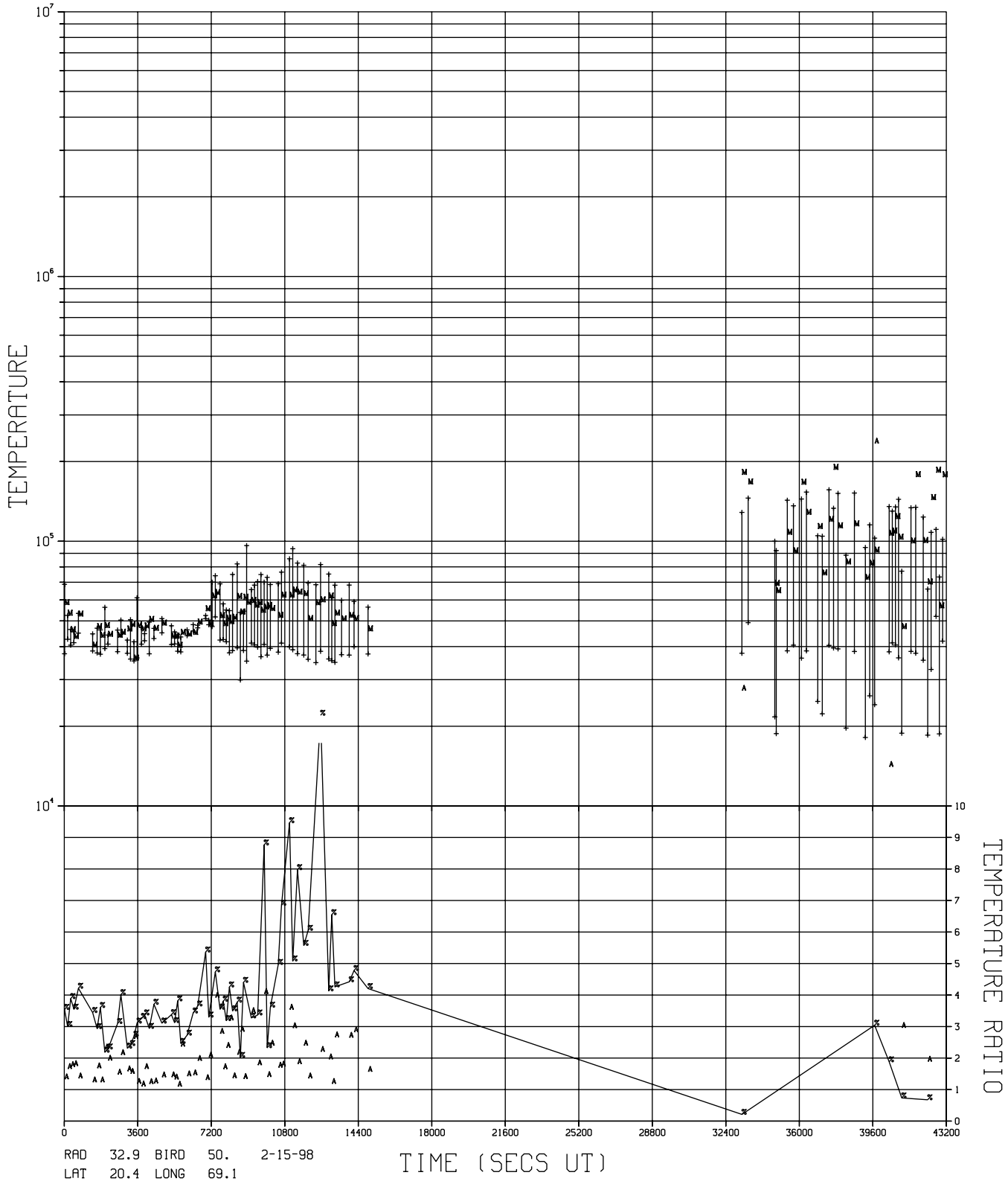

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

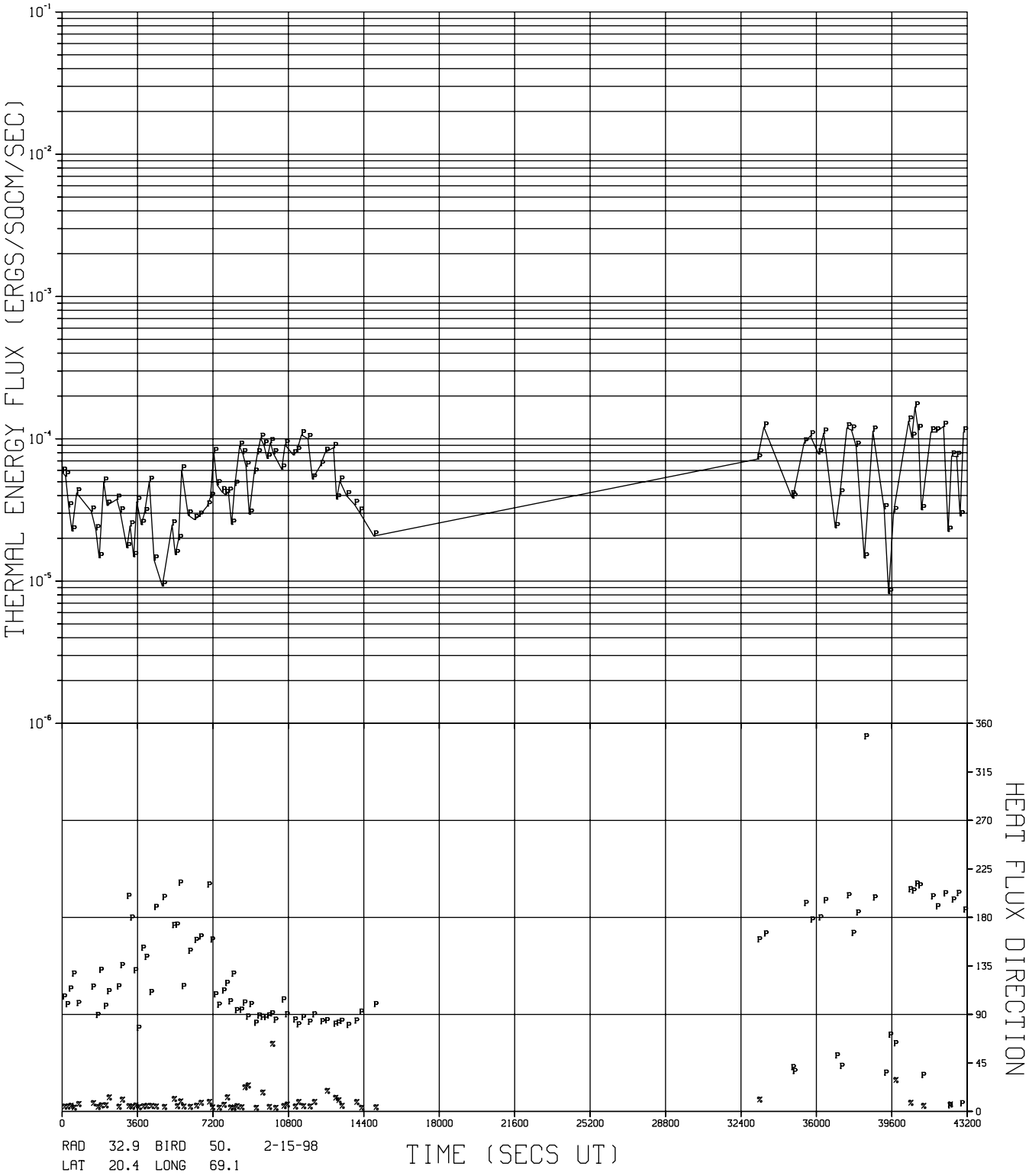

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 31.7 BIRD 50. 2-14-98
LAT 29.2 LONG 53.3

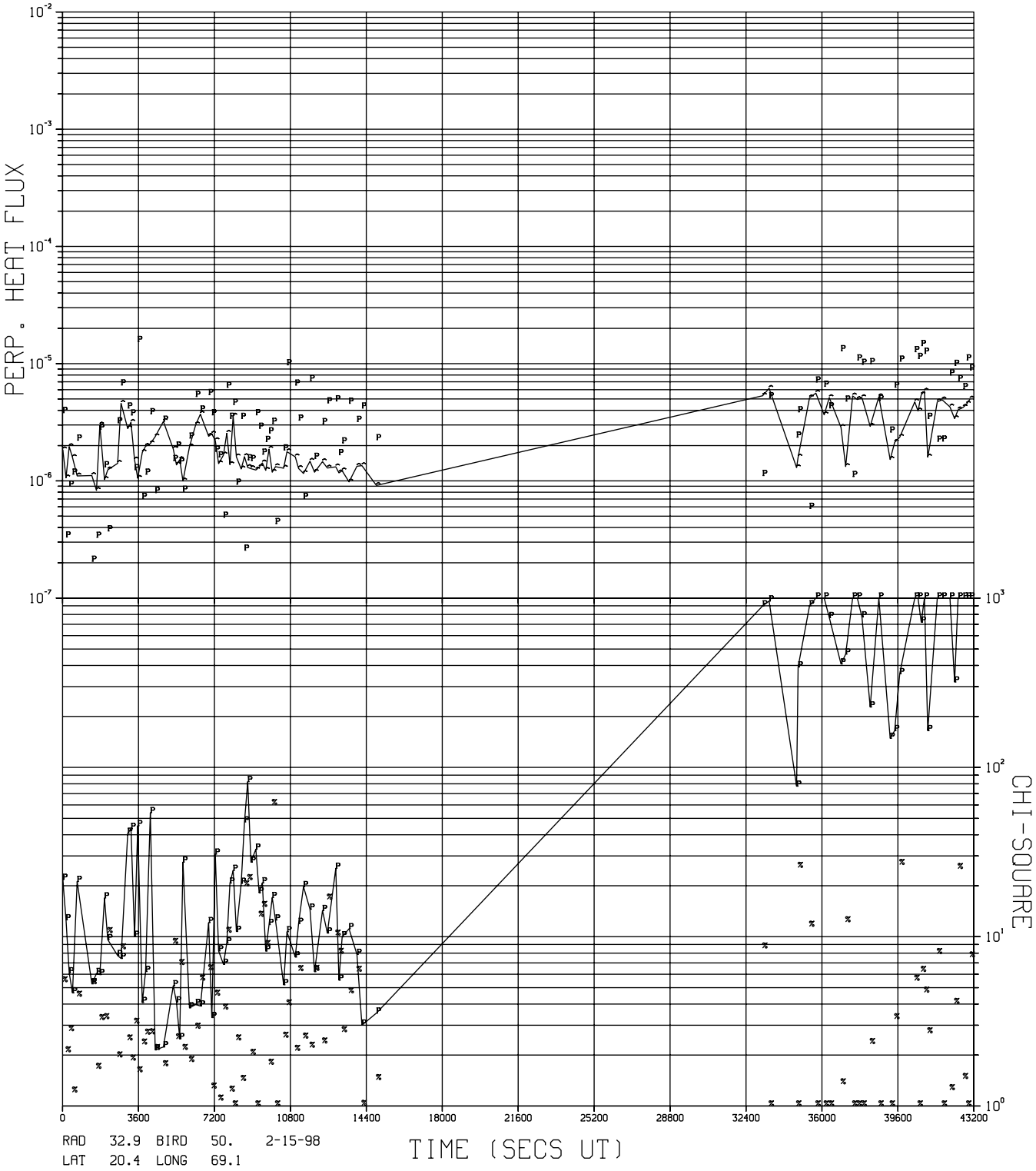

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

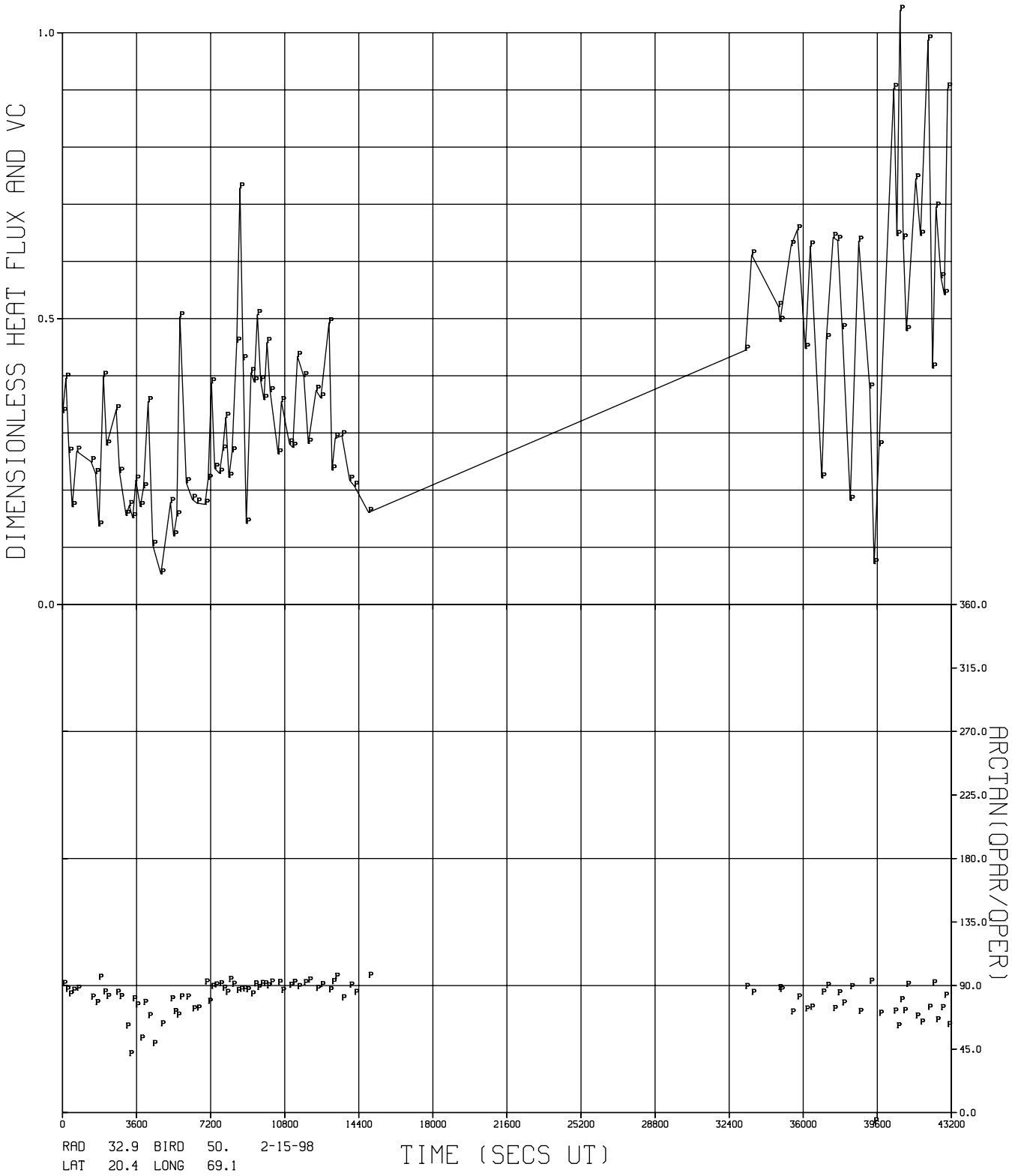

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

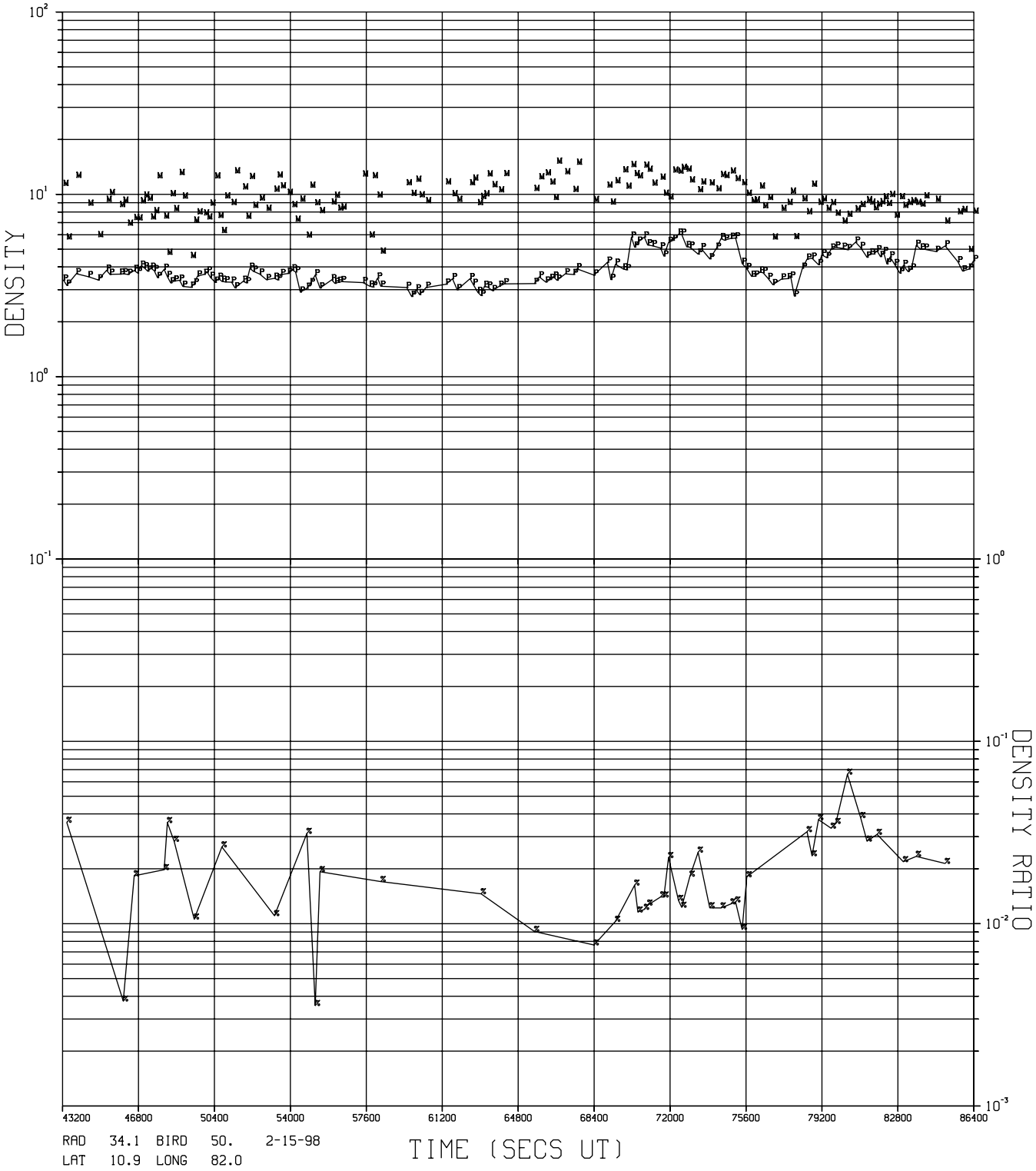

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

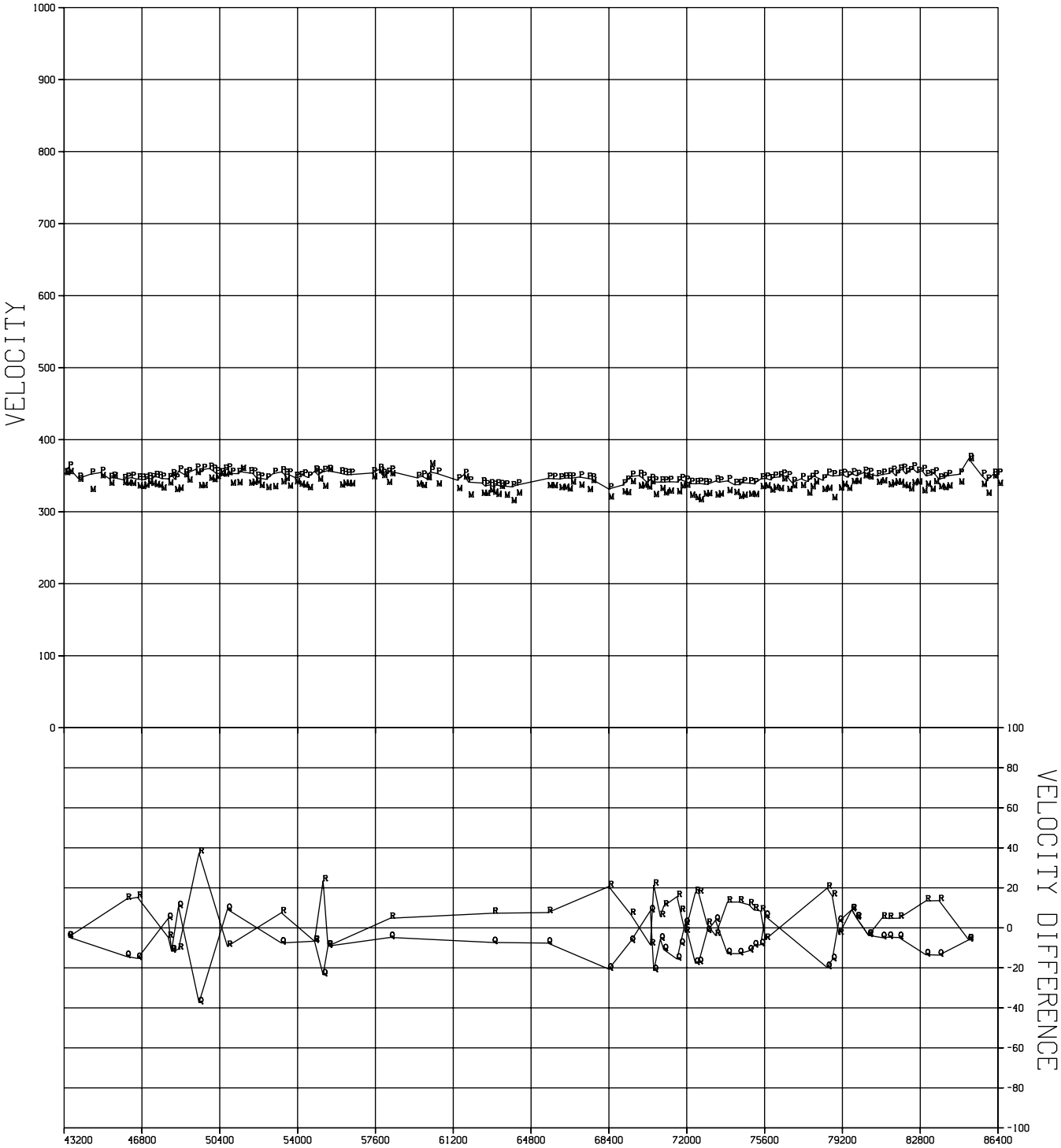

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

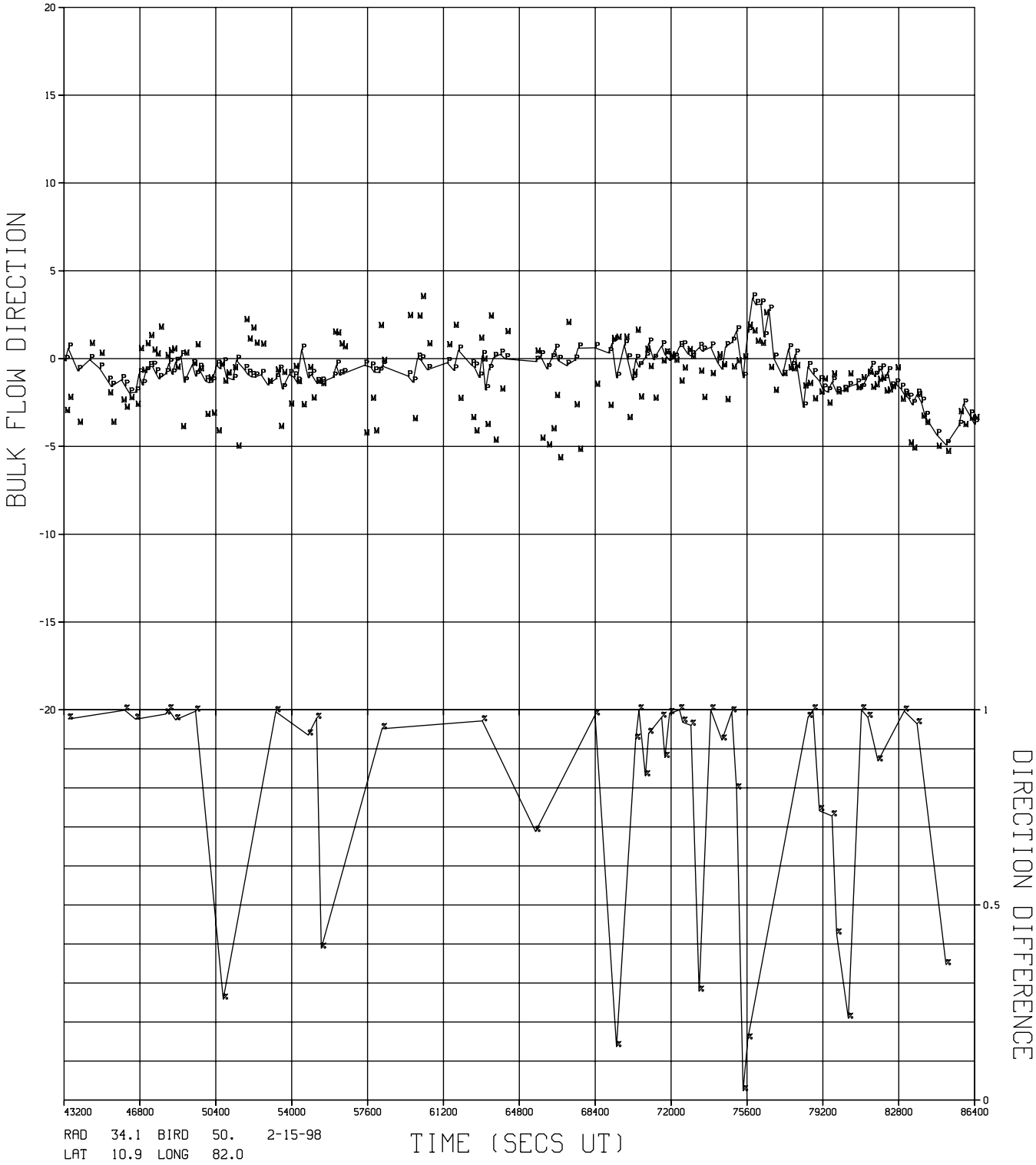

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

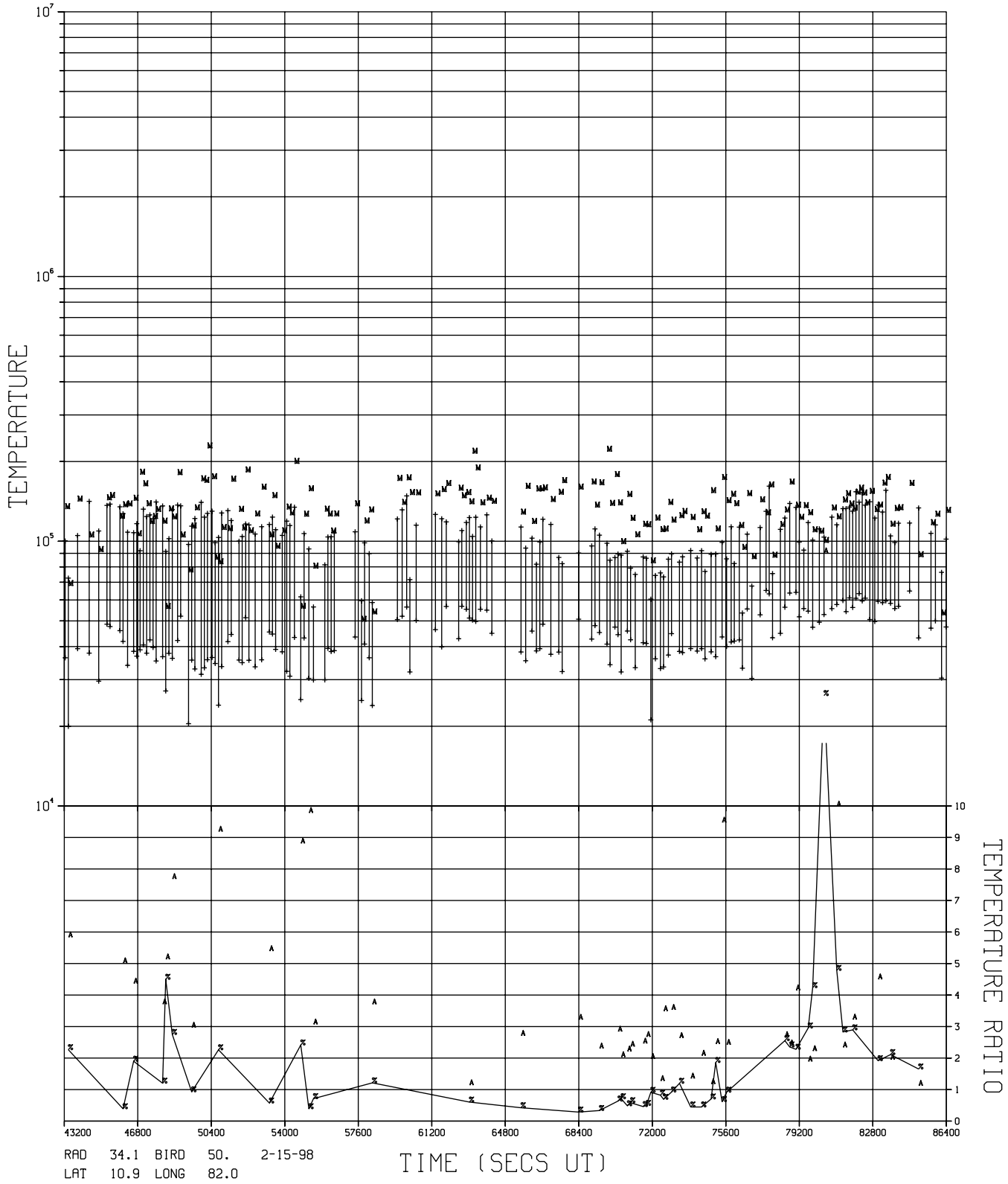

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.9 BIRD 50. 2-15-98
LAT 20.4 LONG 69.1

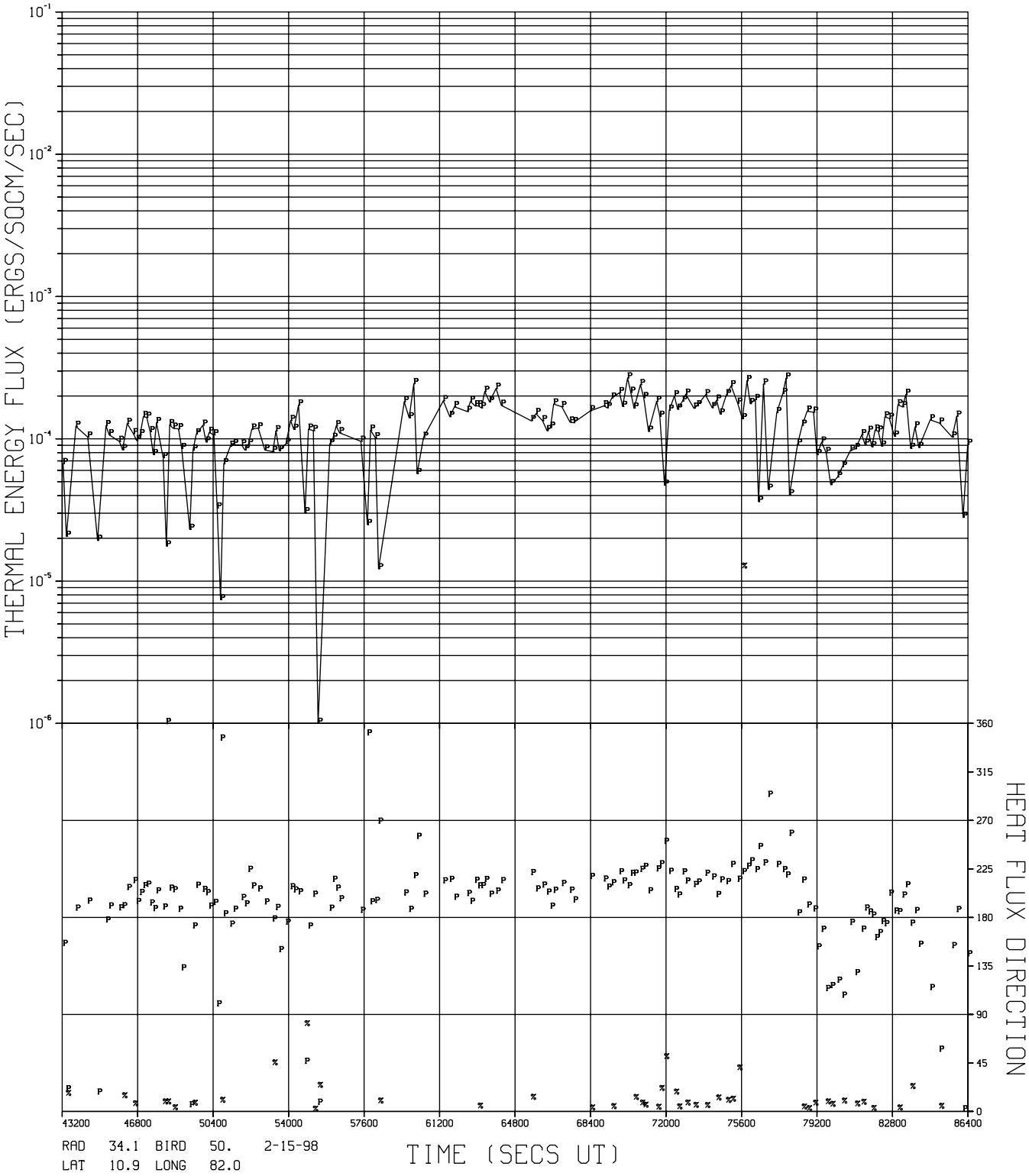

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

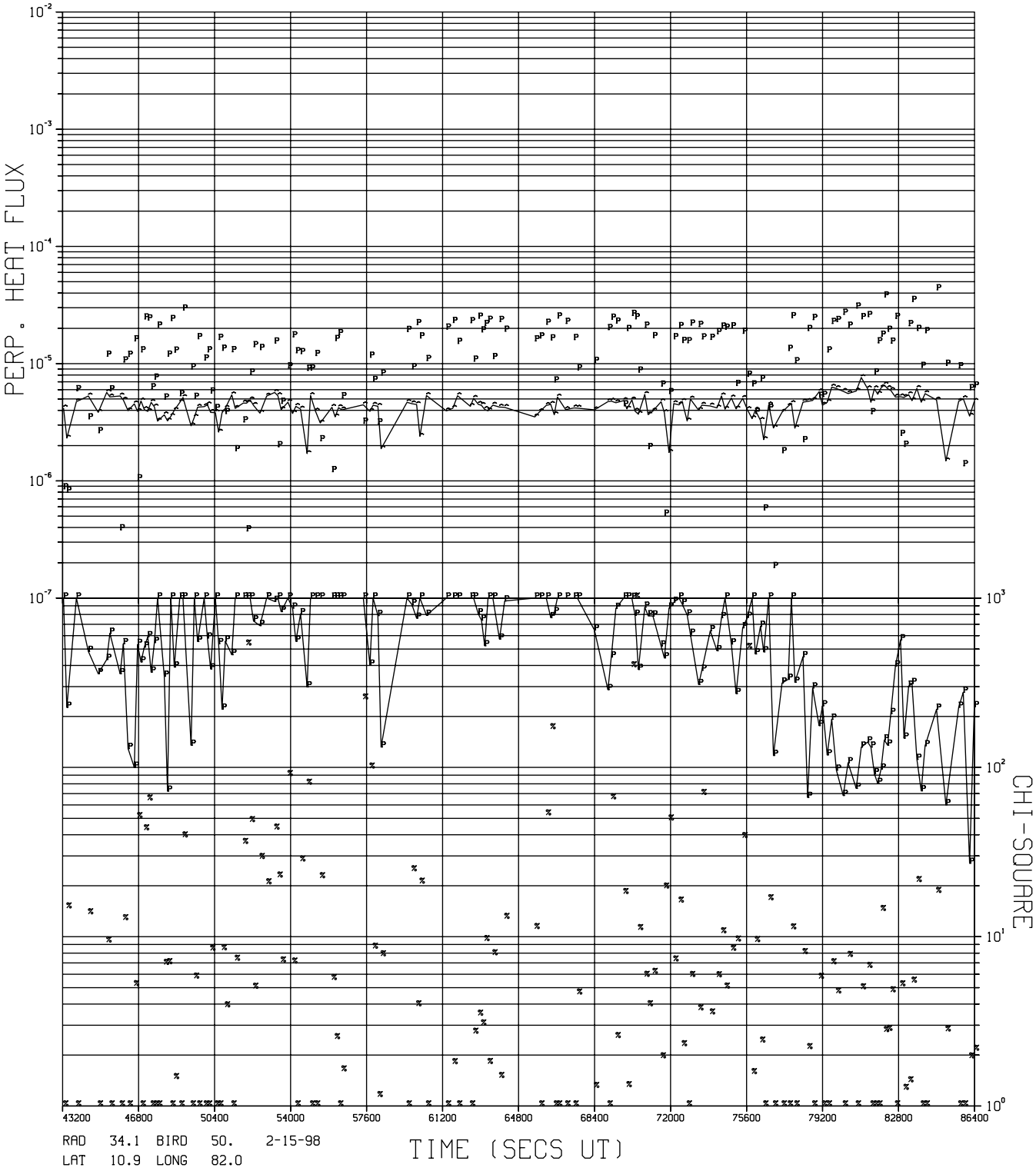


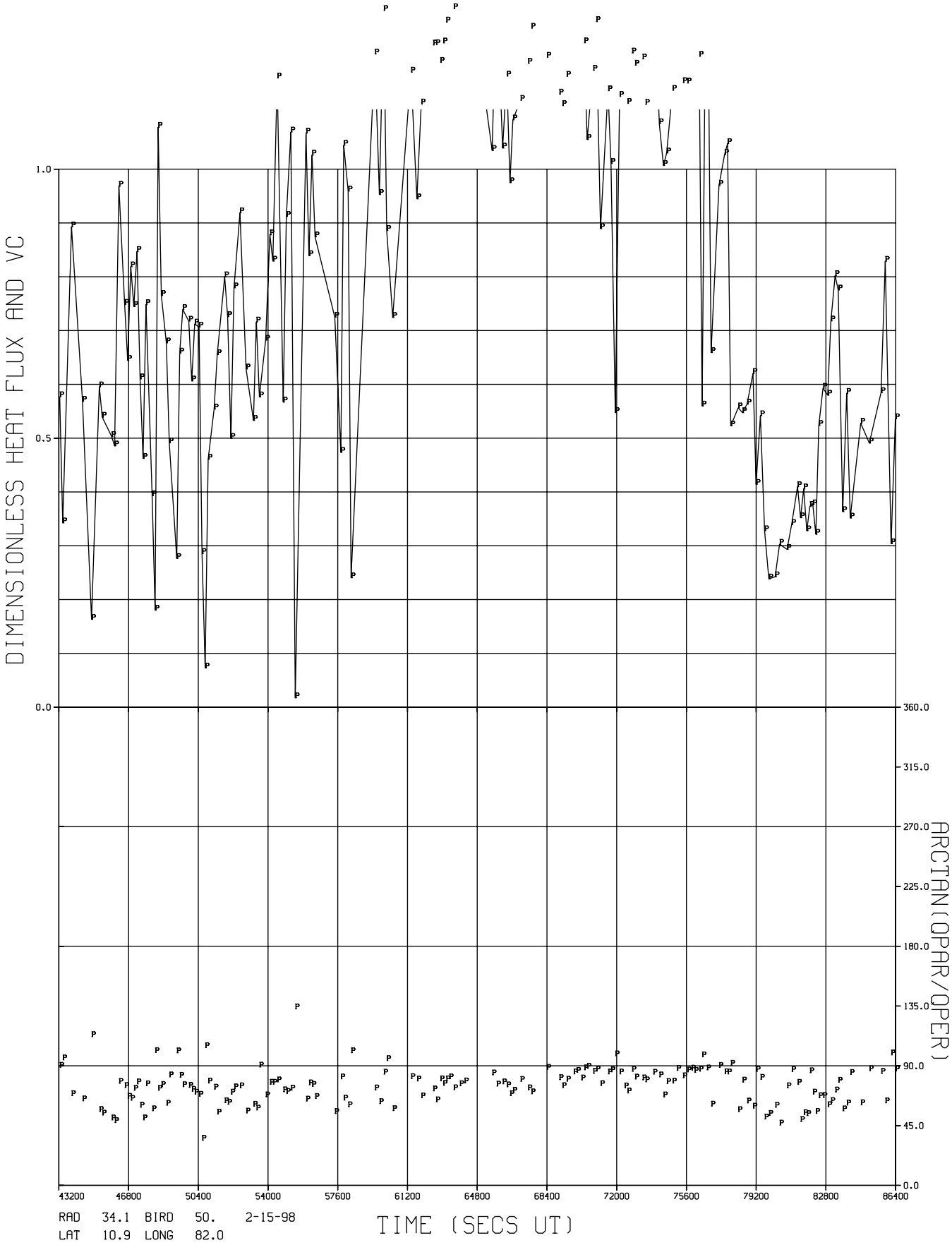
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

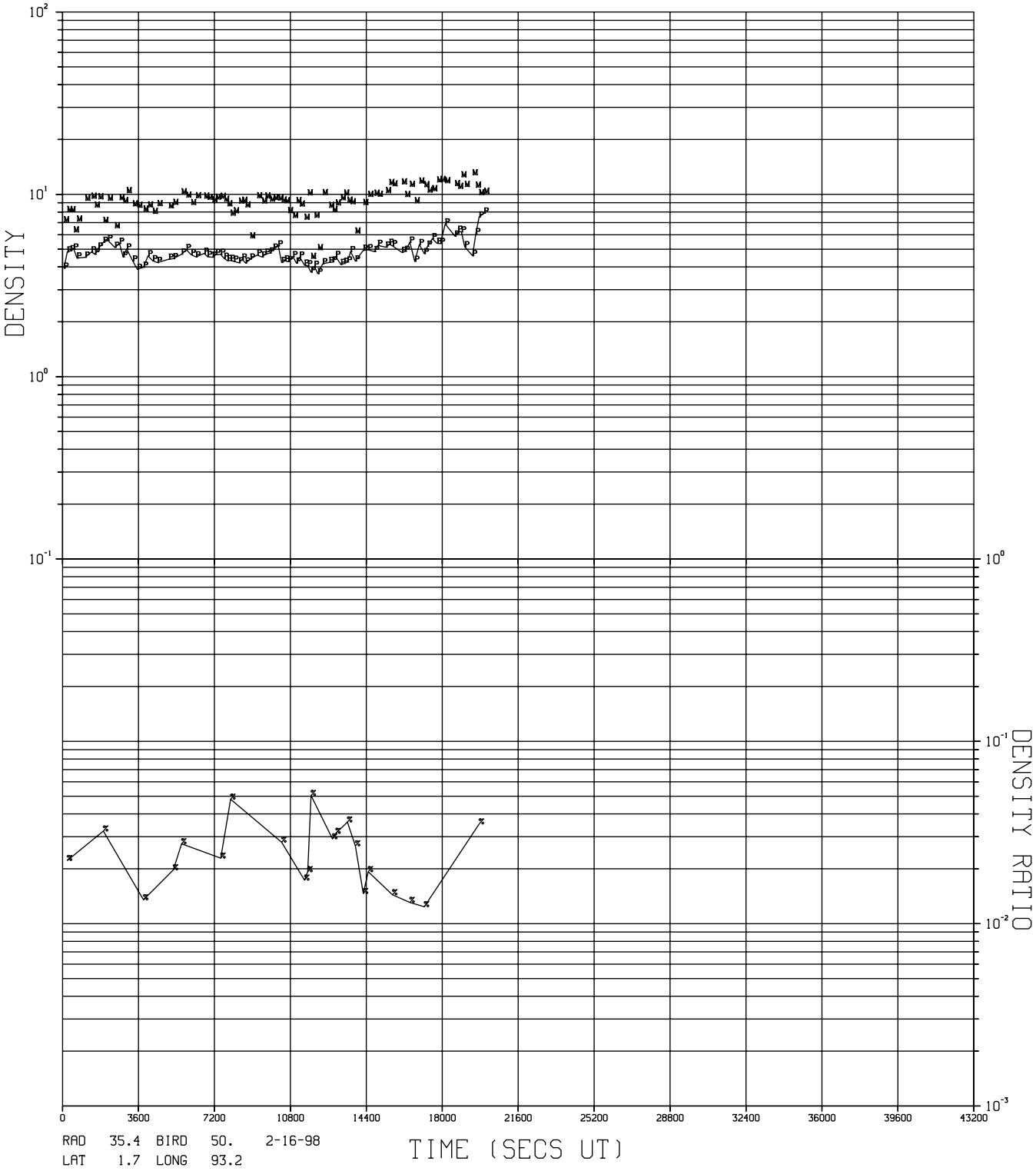

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

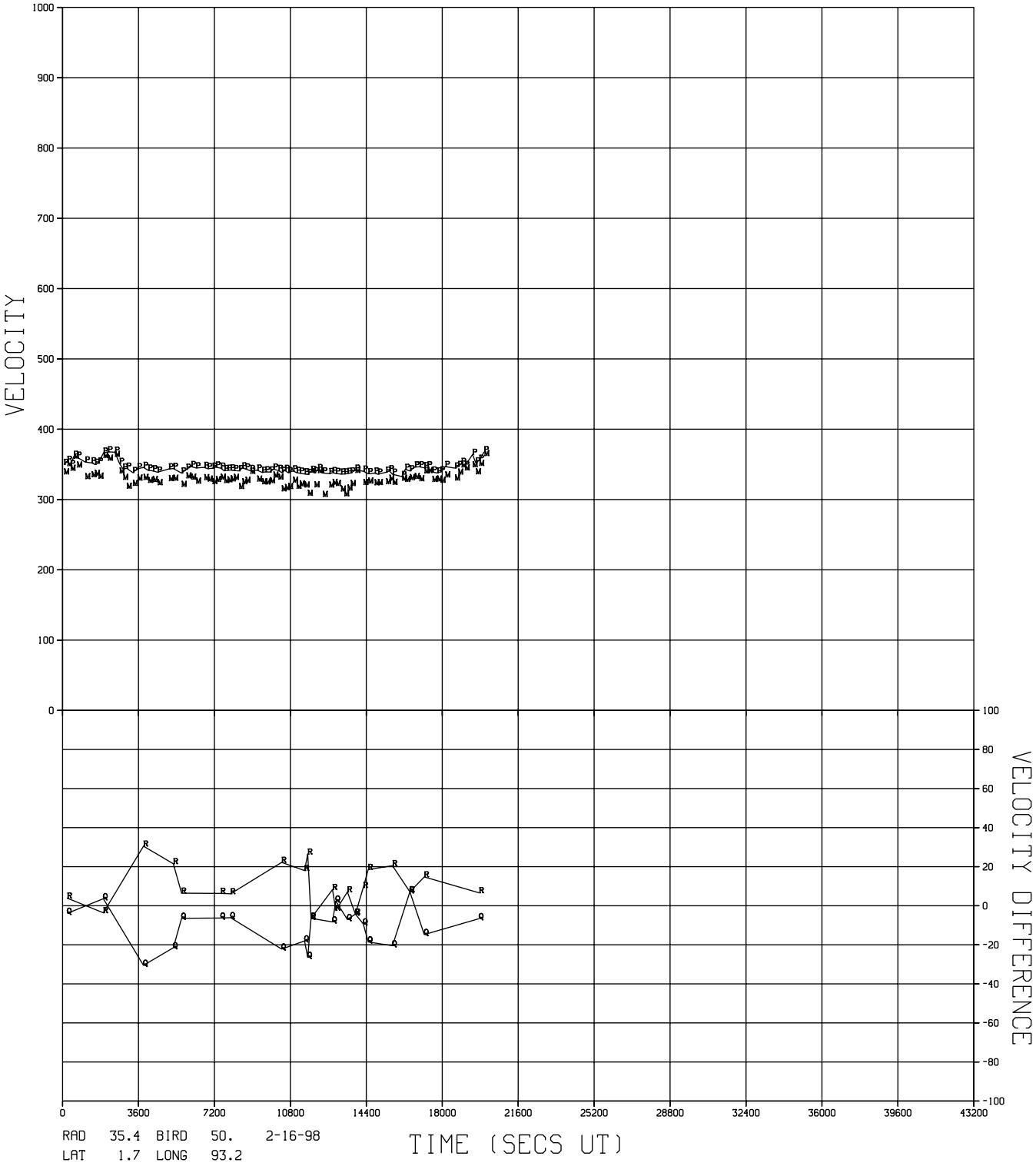

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

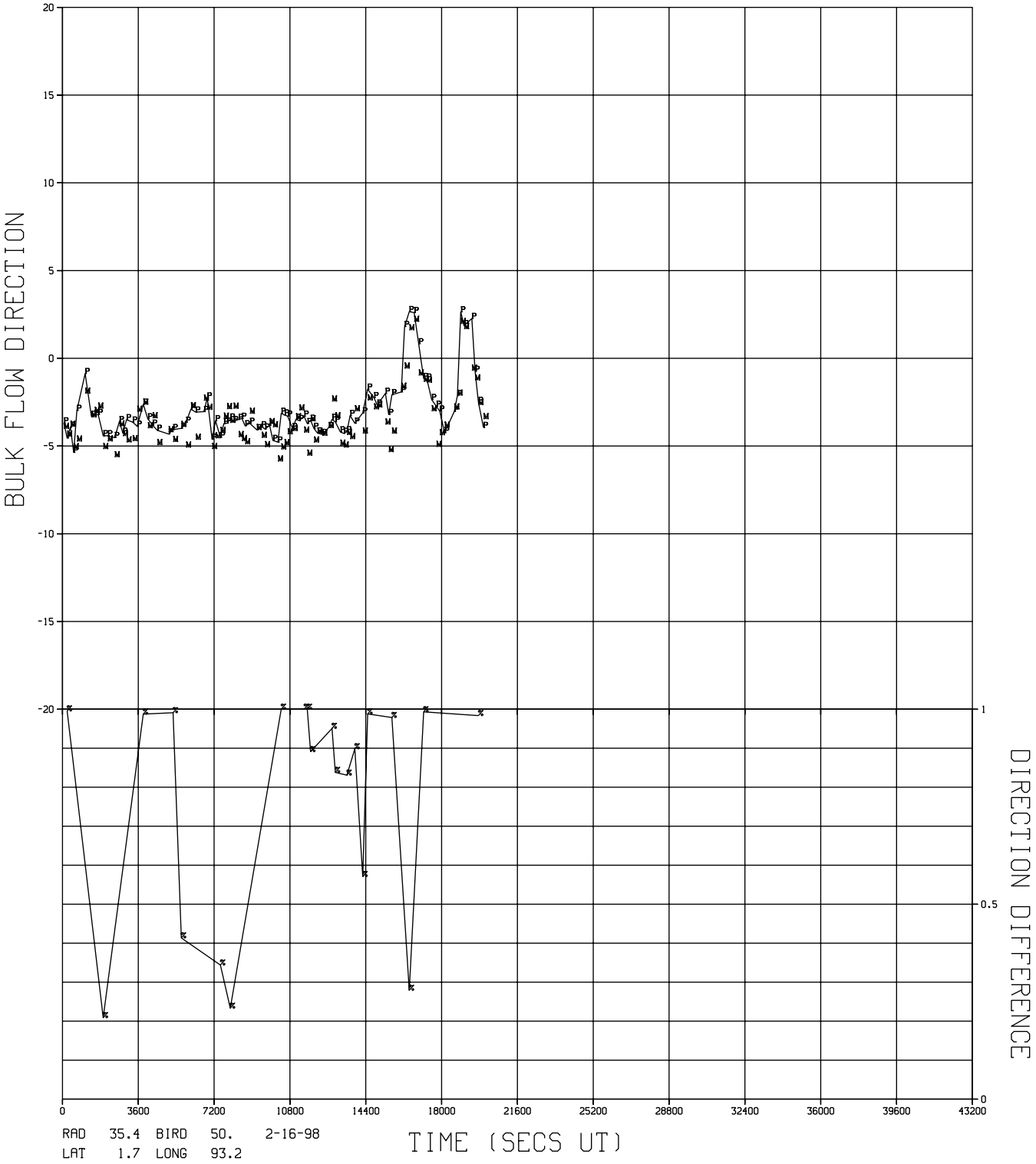

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

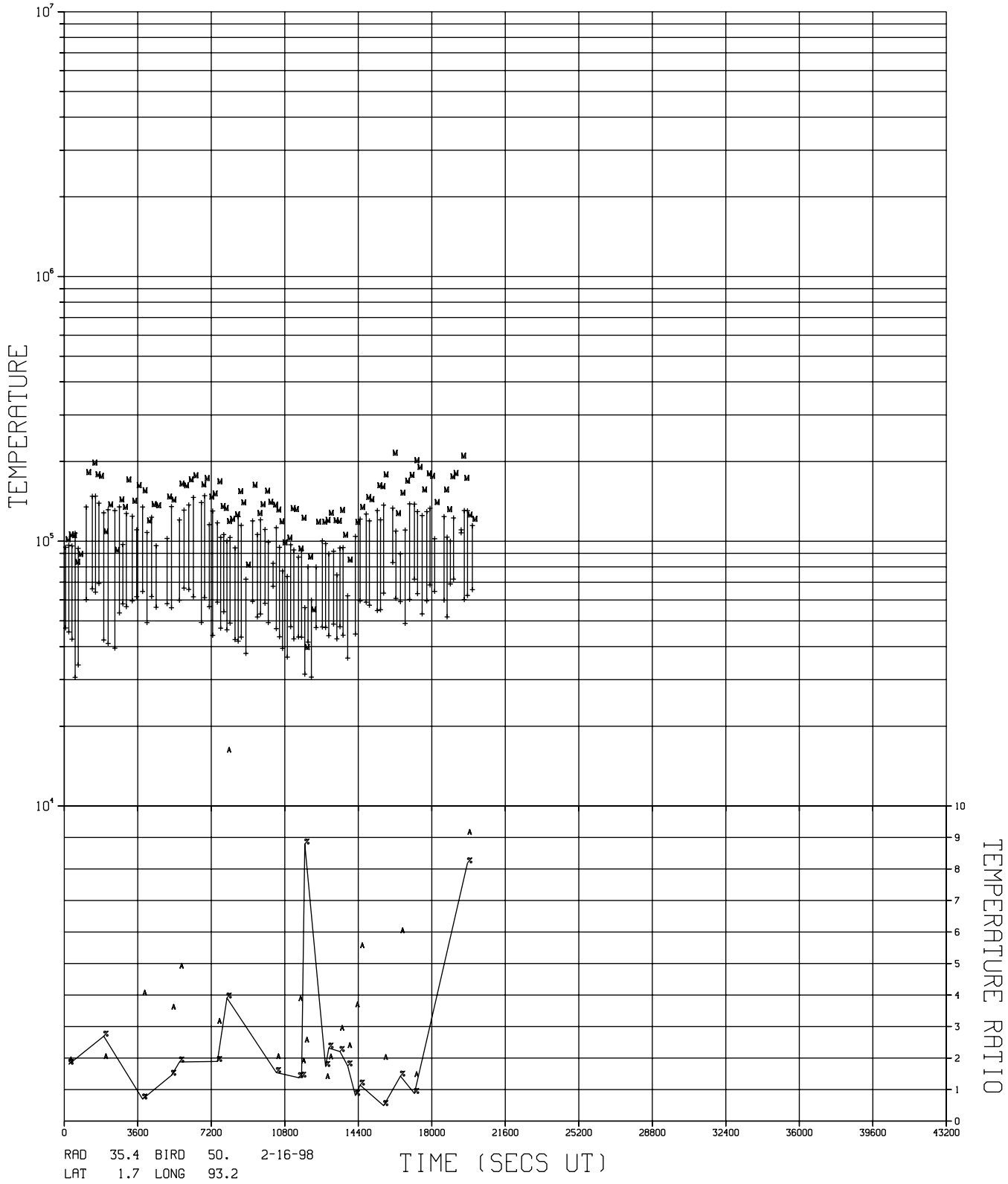

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

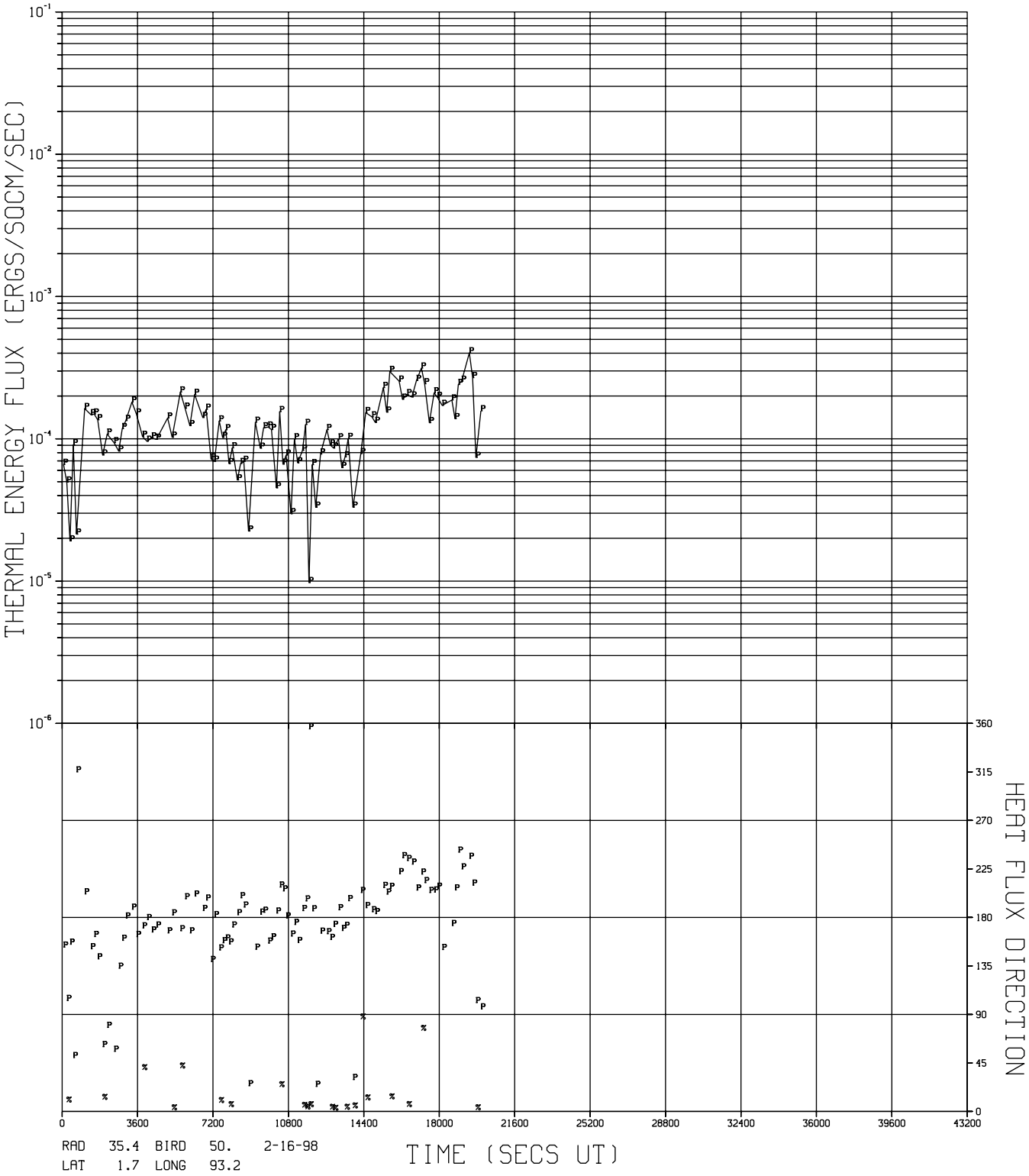

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 34.1 BIRD 50. 2-15-98
LAT 10.9 LONG 82.0

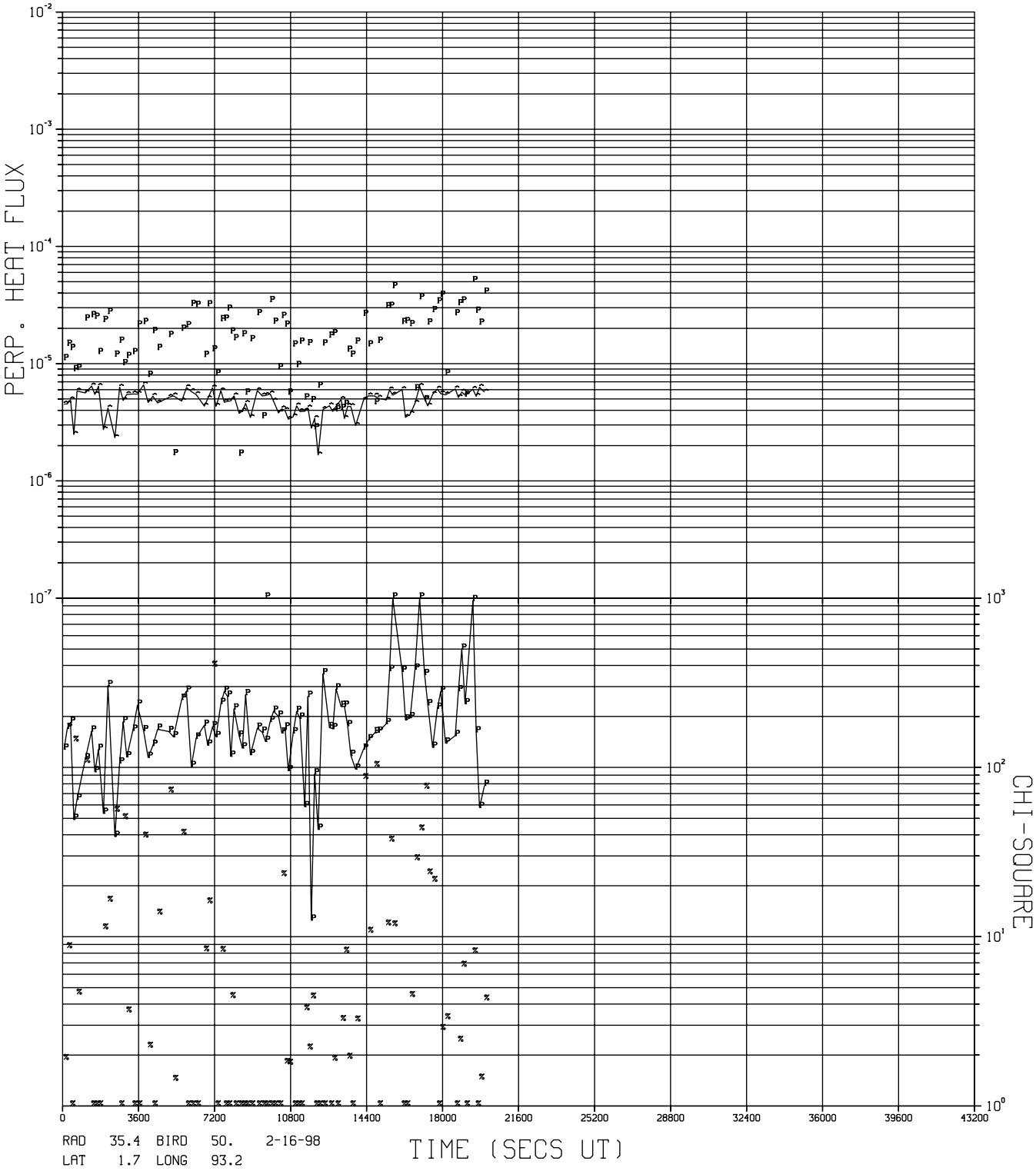

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

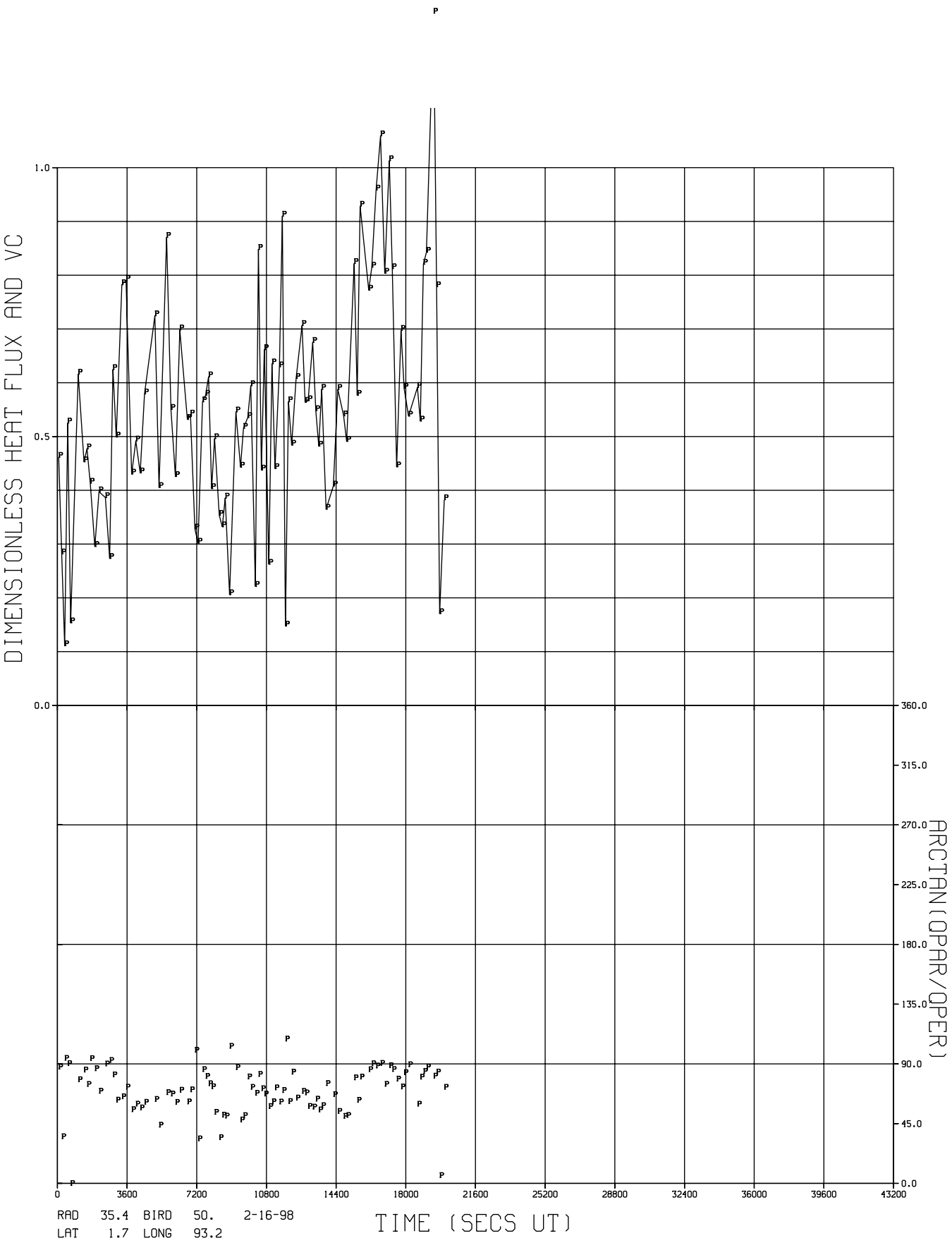

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

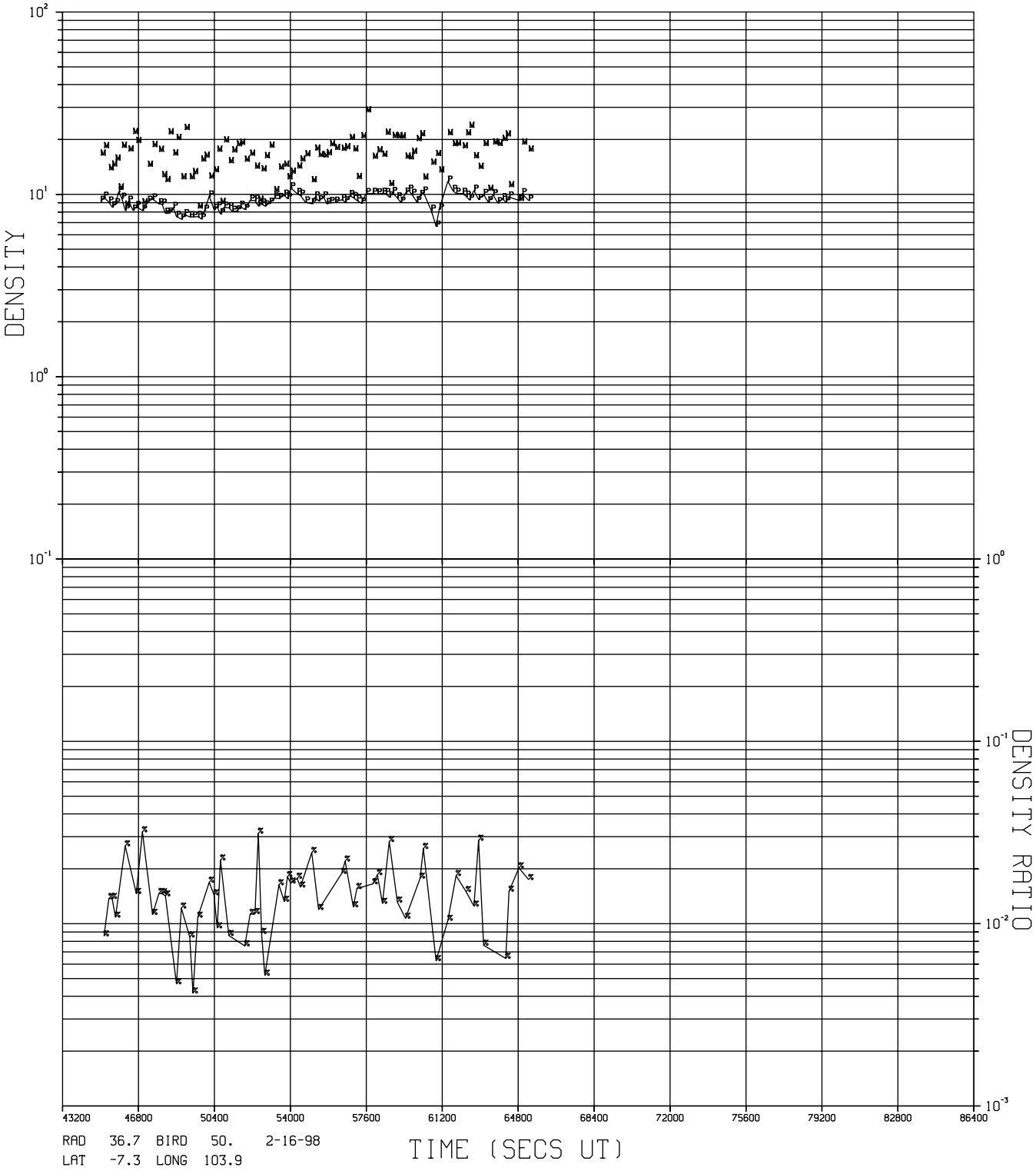

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

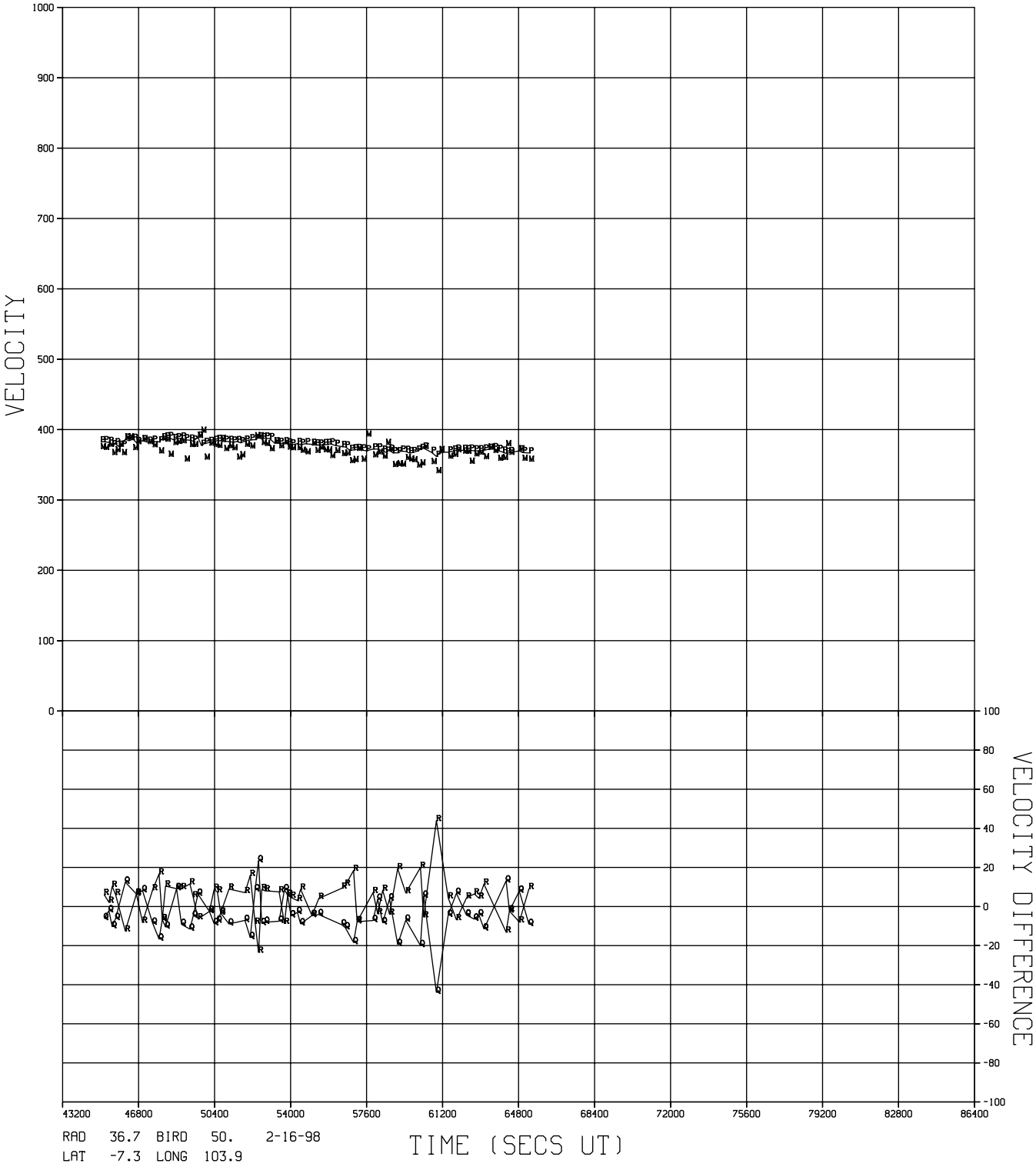

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

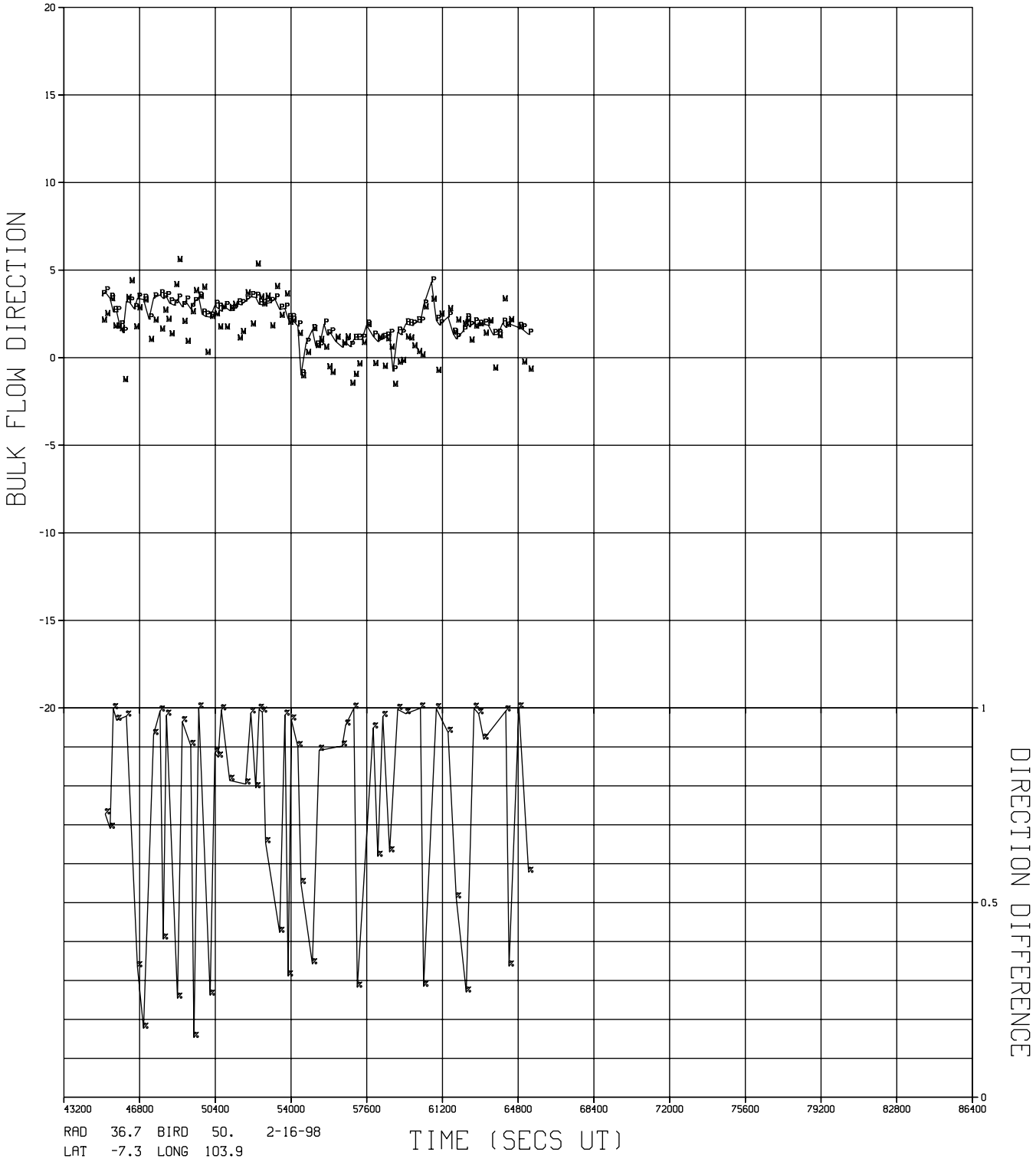

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

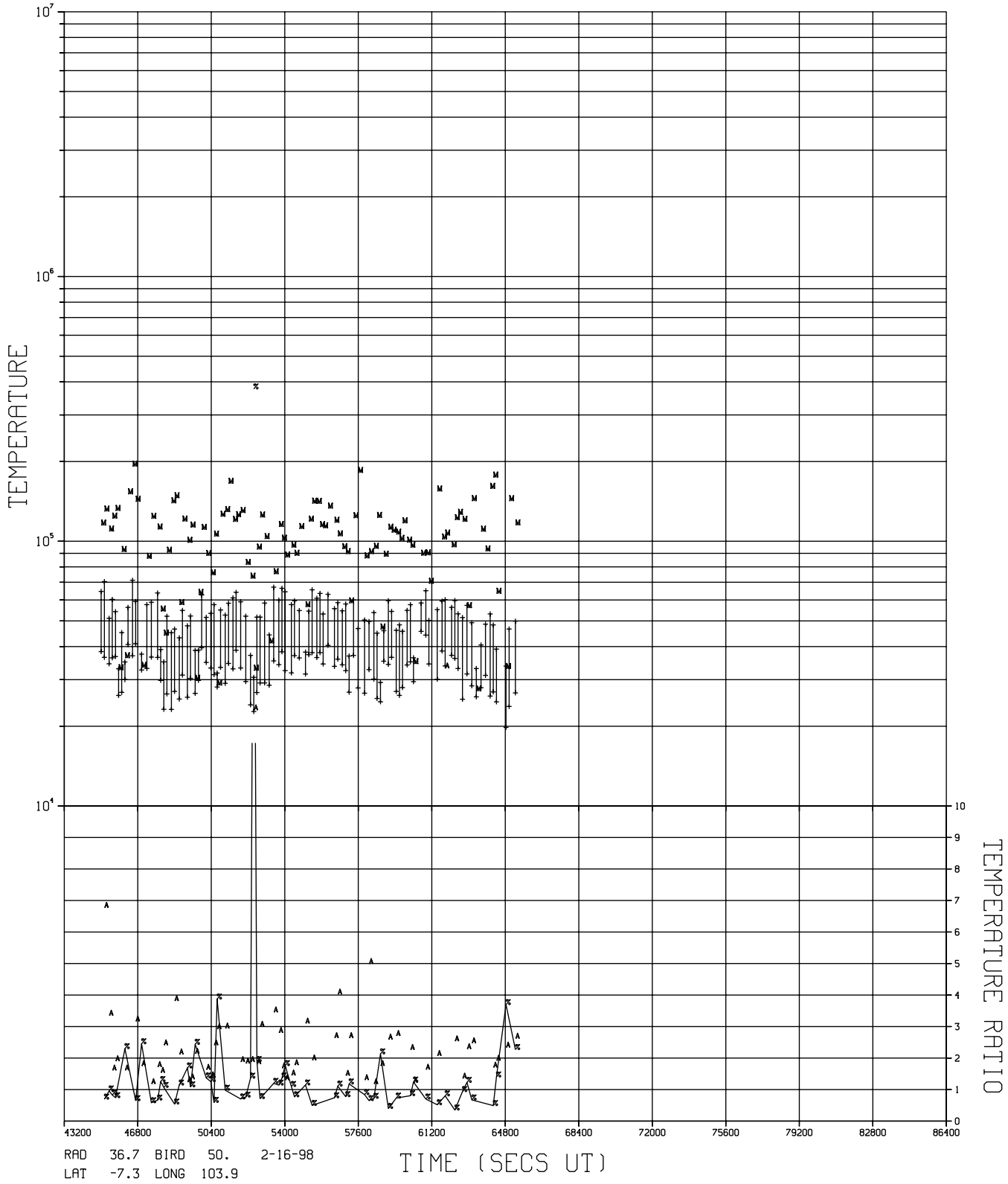

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

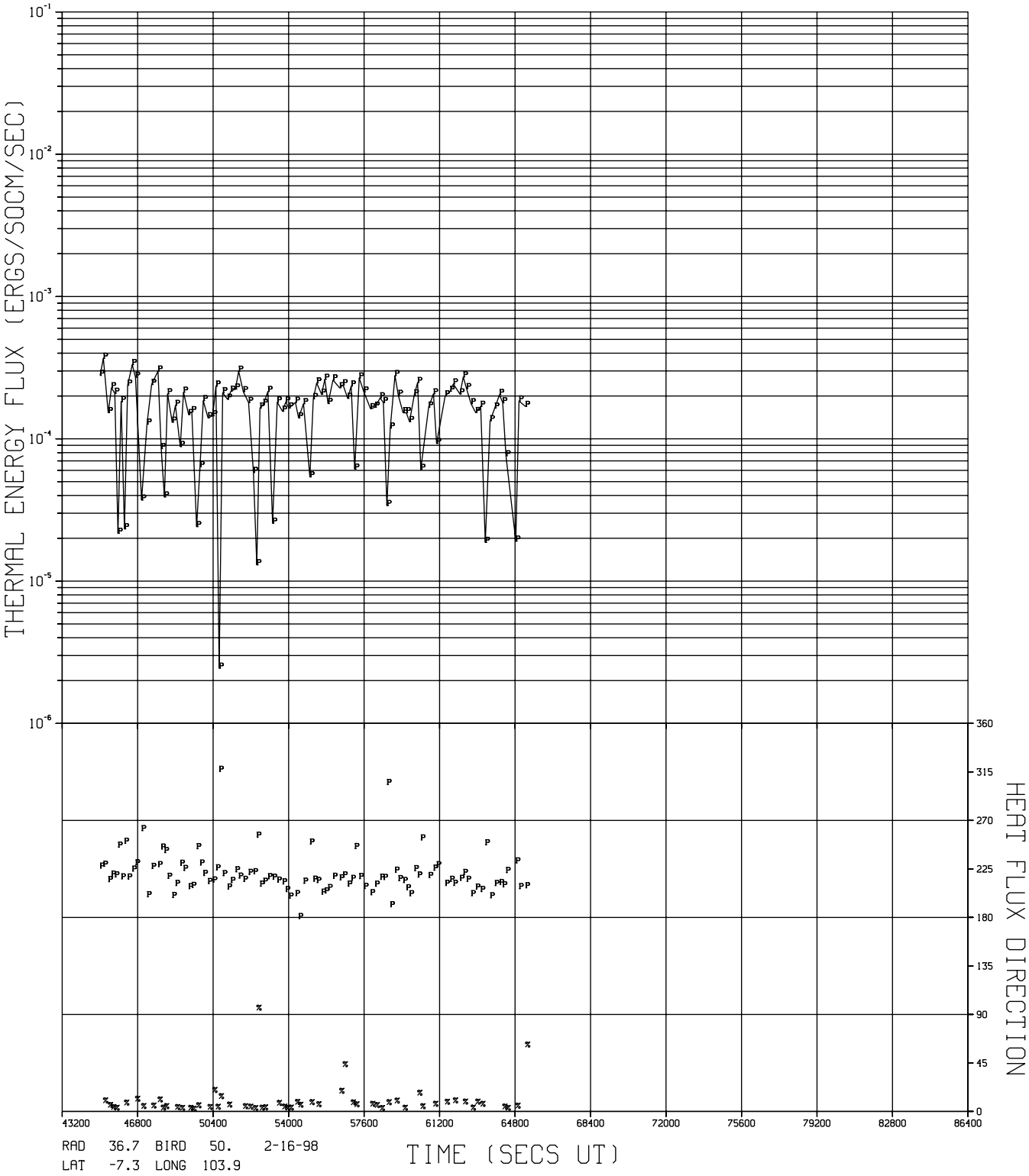

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 35.4 BIRD 50. 2-16-98
LAT 1.7 LONG 93.2

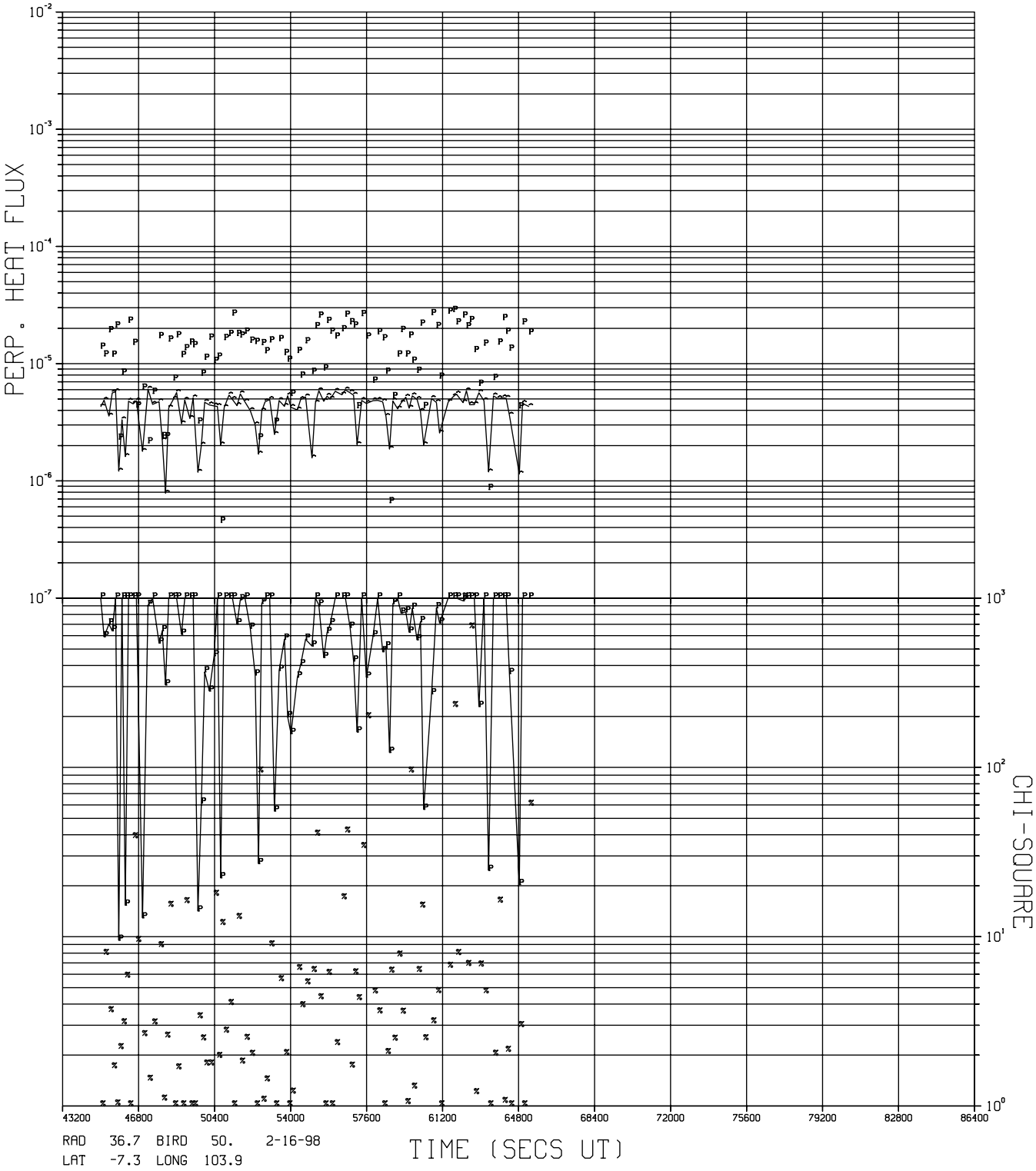

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9

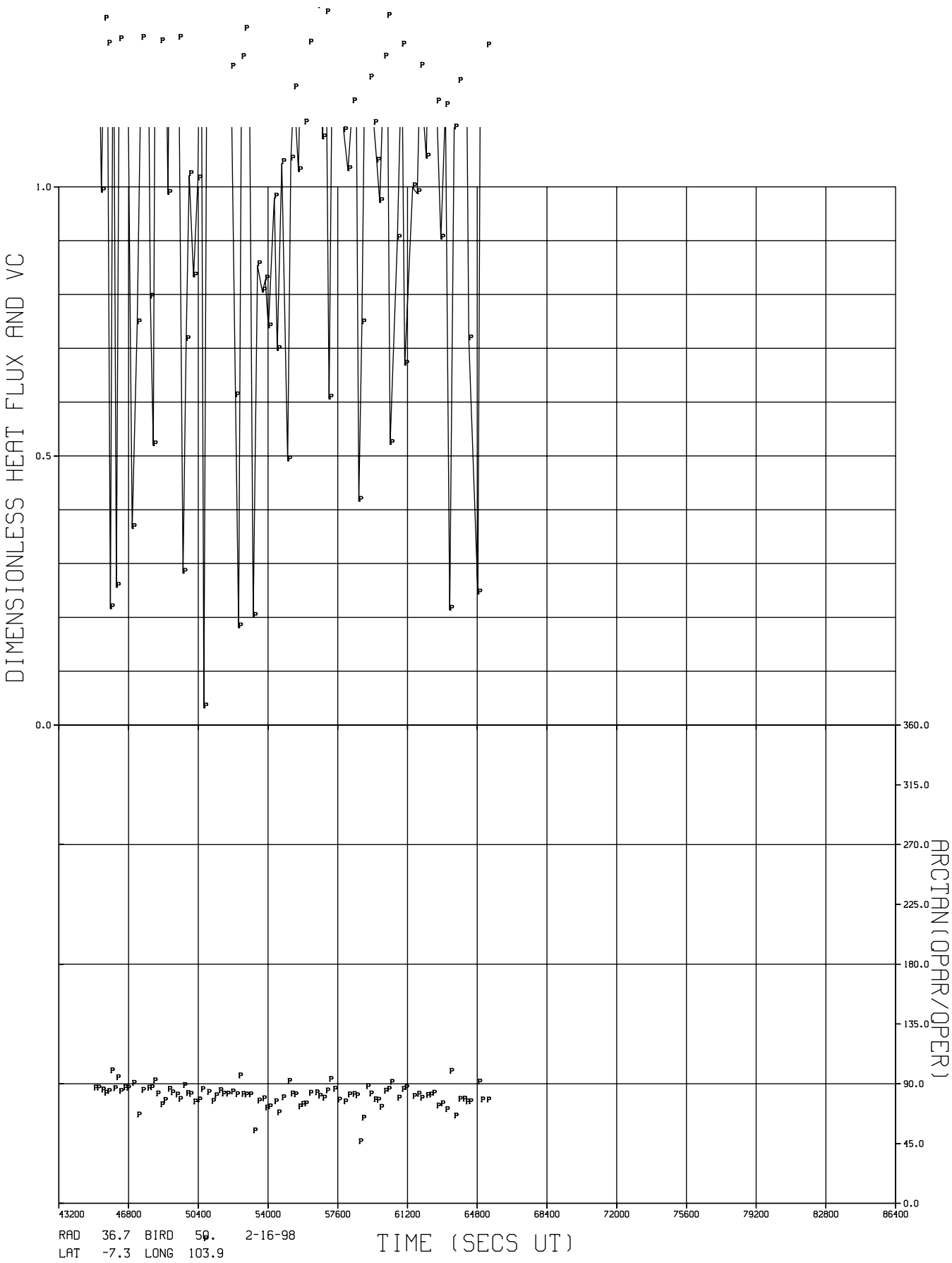

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9


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 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9


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 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9


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 36.7 BIRD 50. 2-16-98
LAT -7.3 LONG 103.9