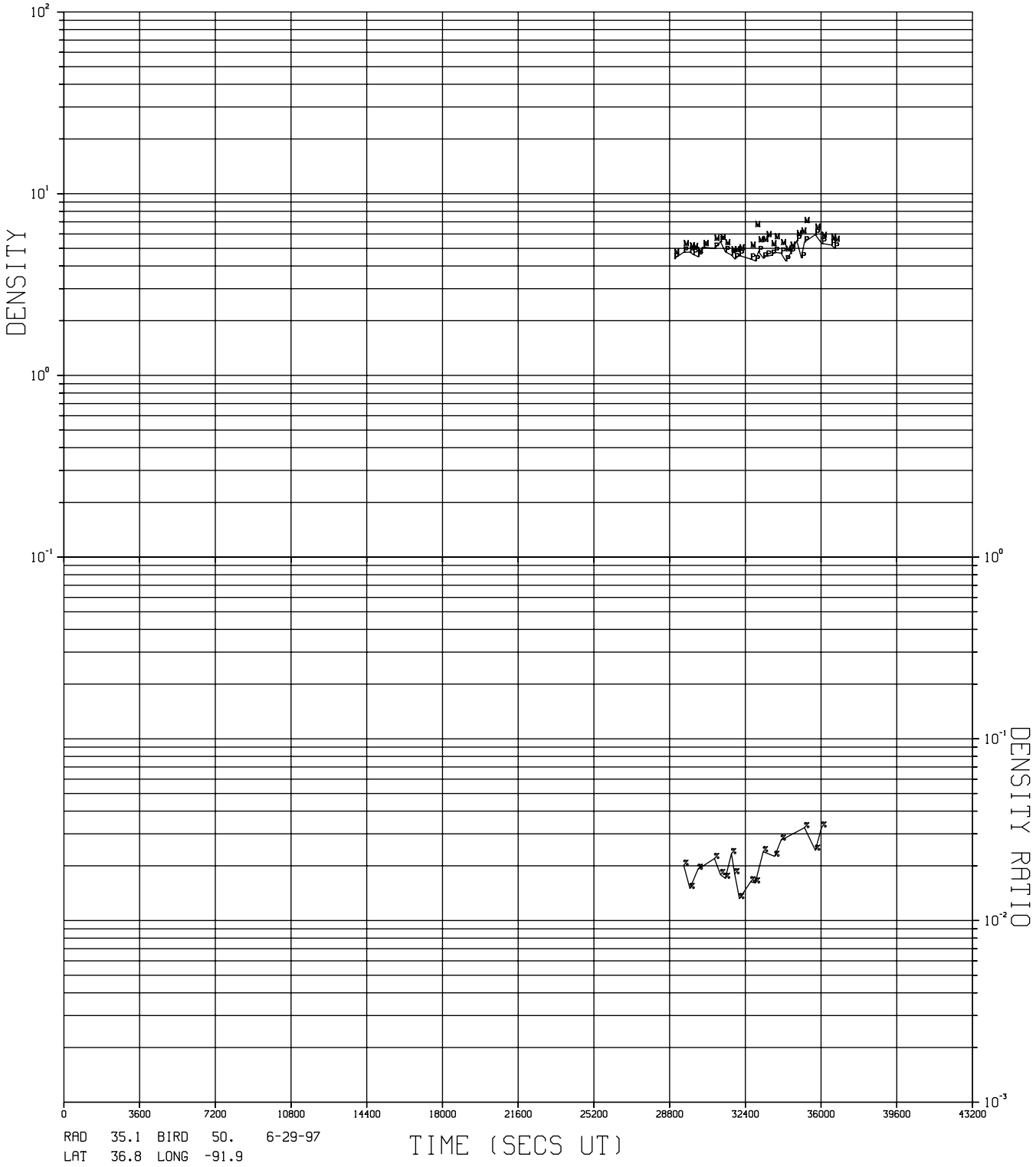
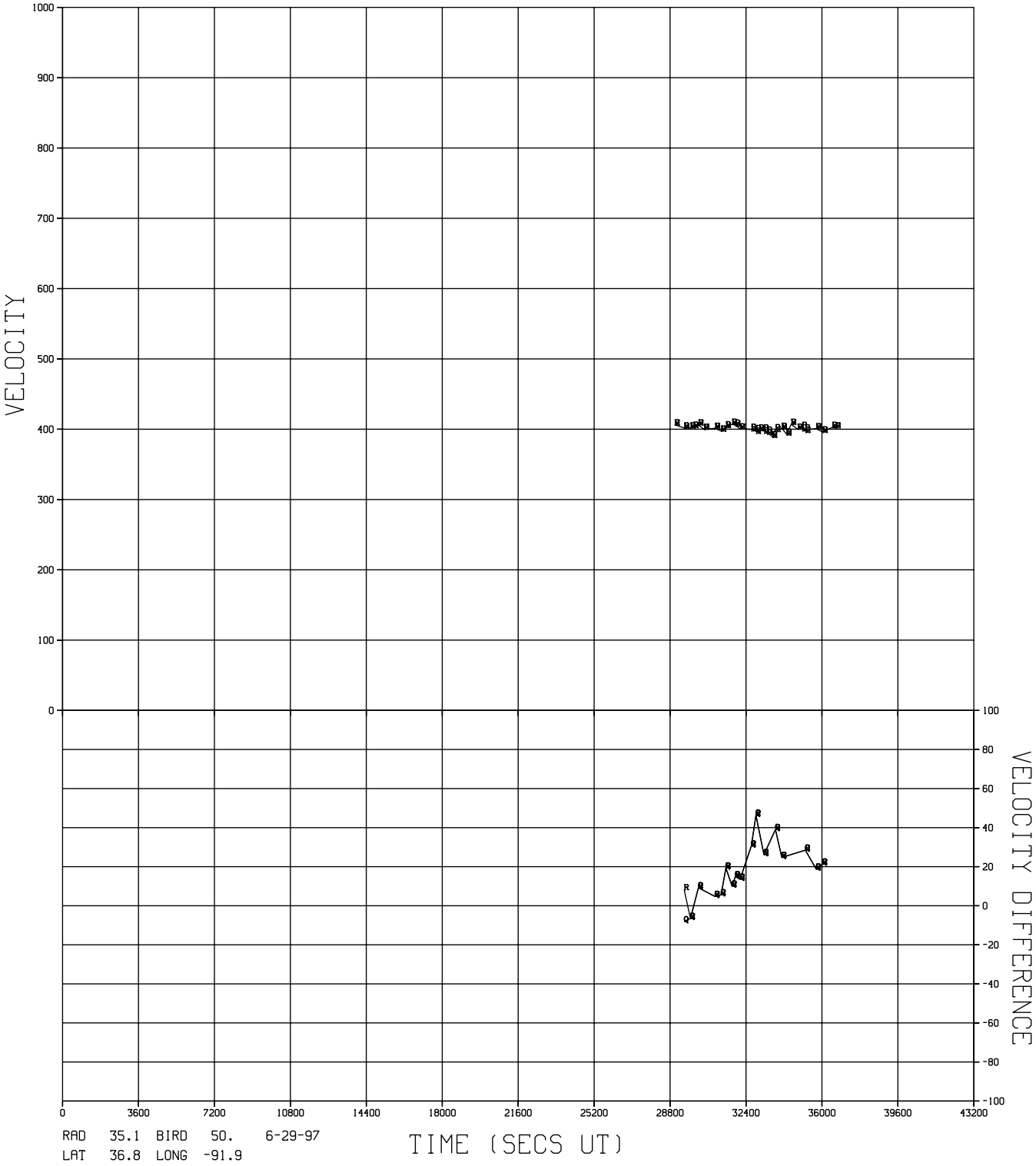
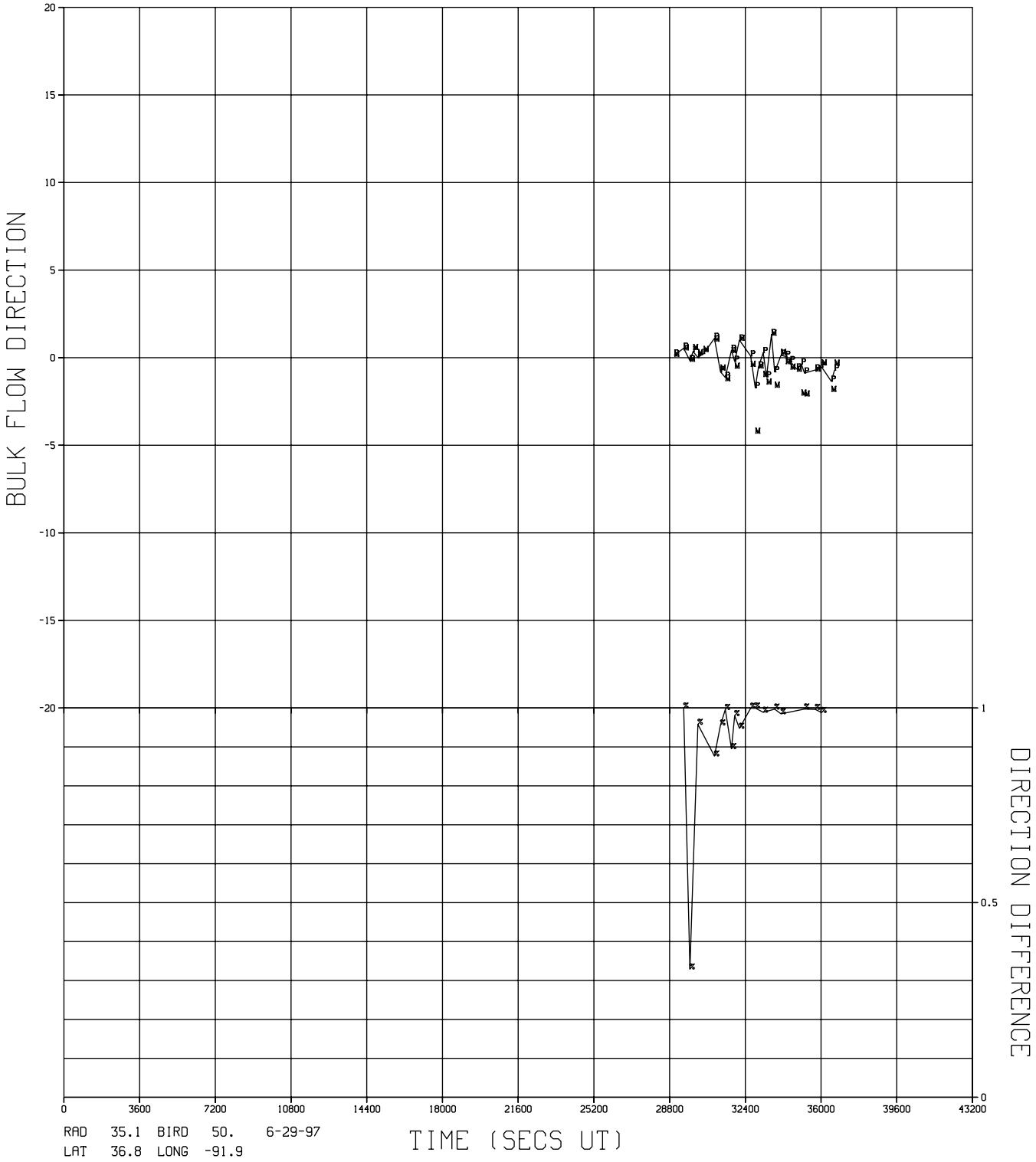
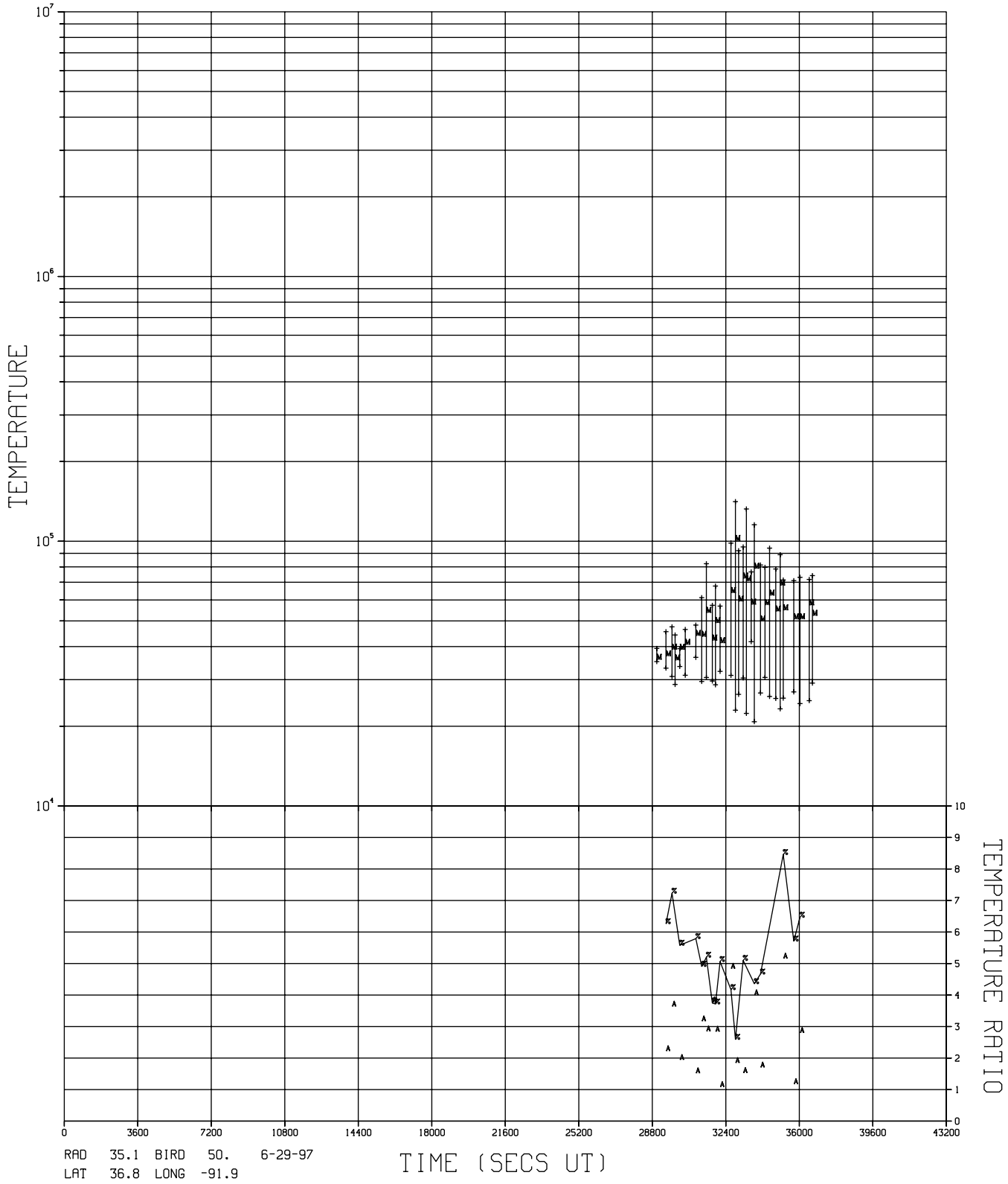
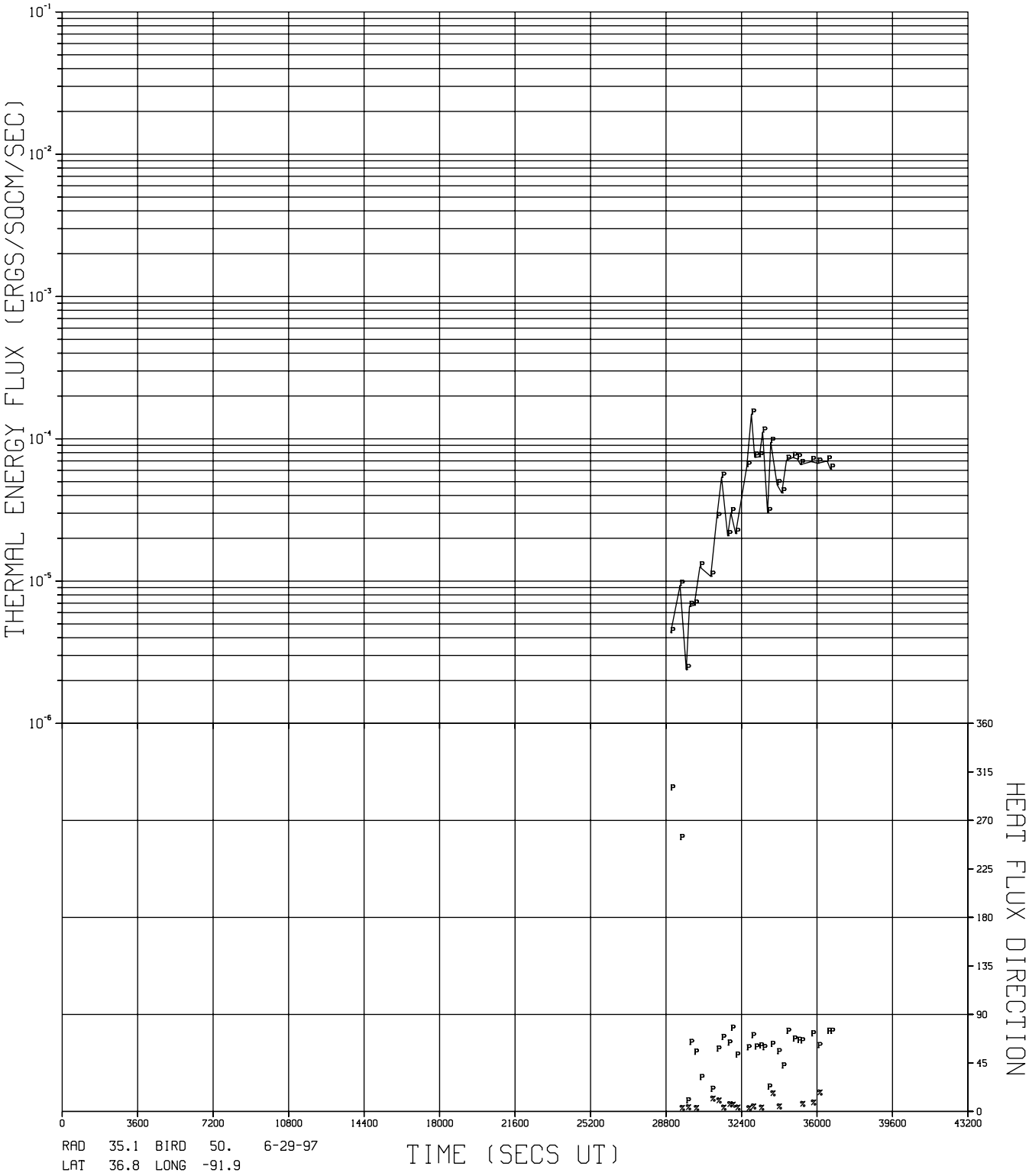
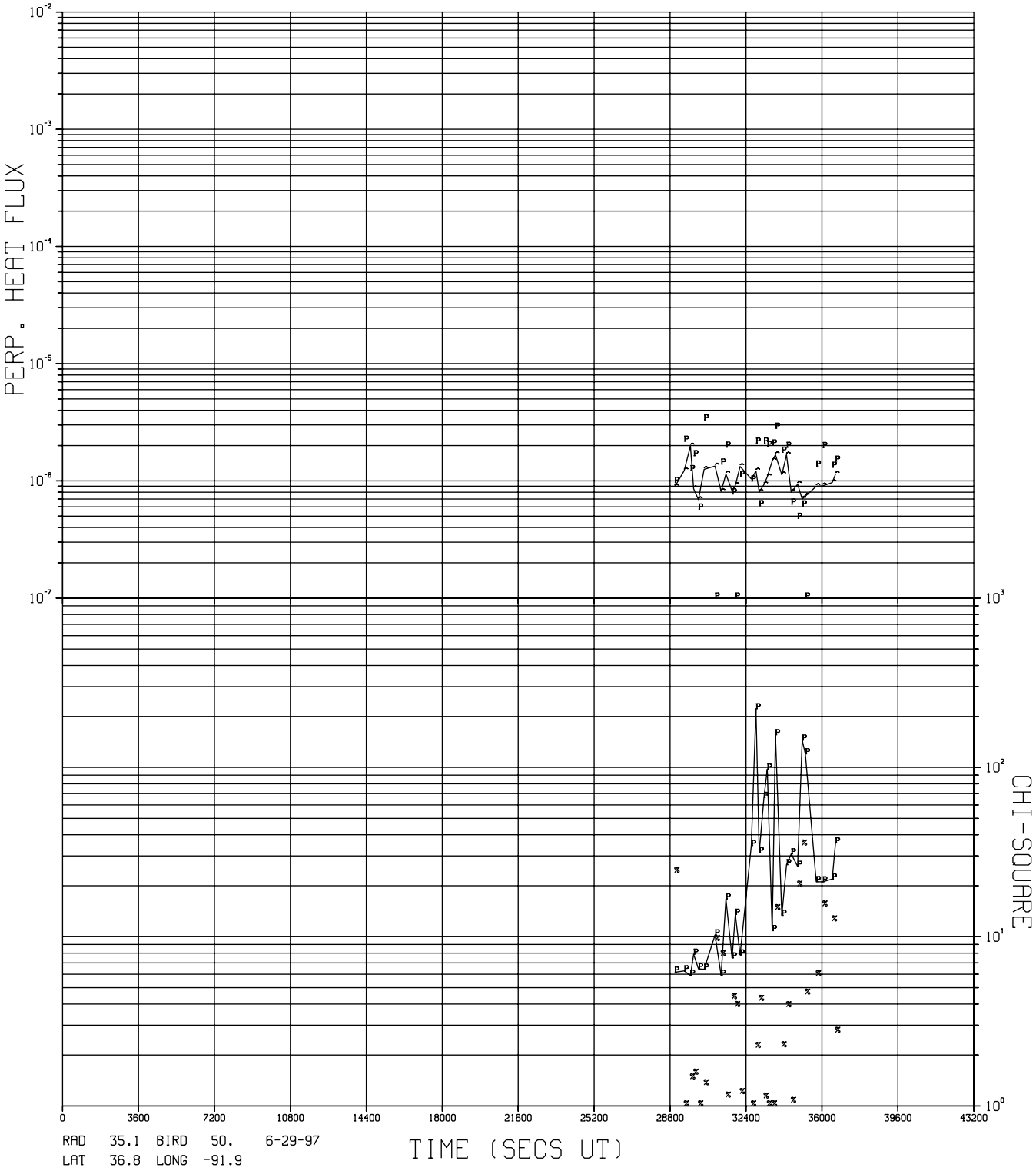

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9

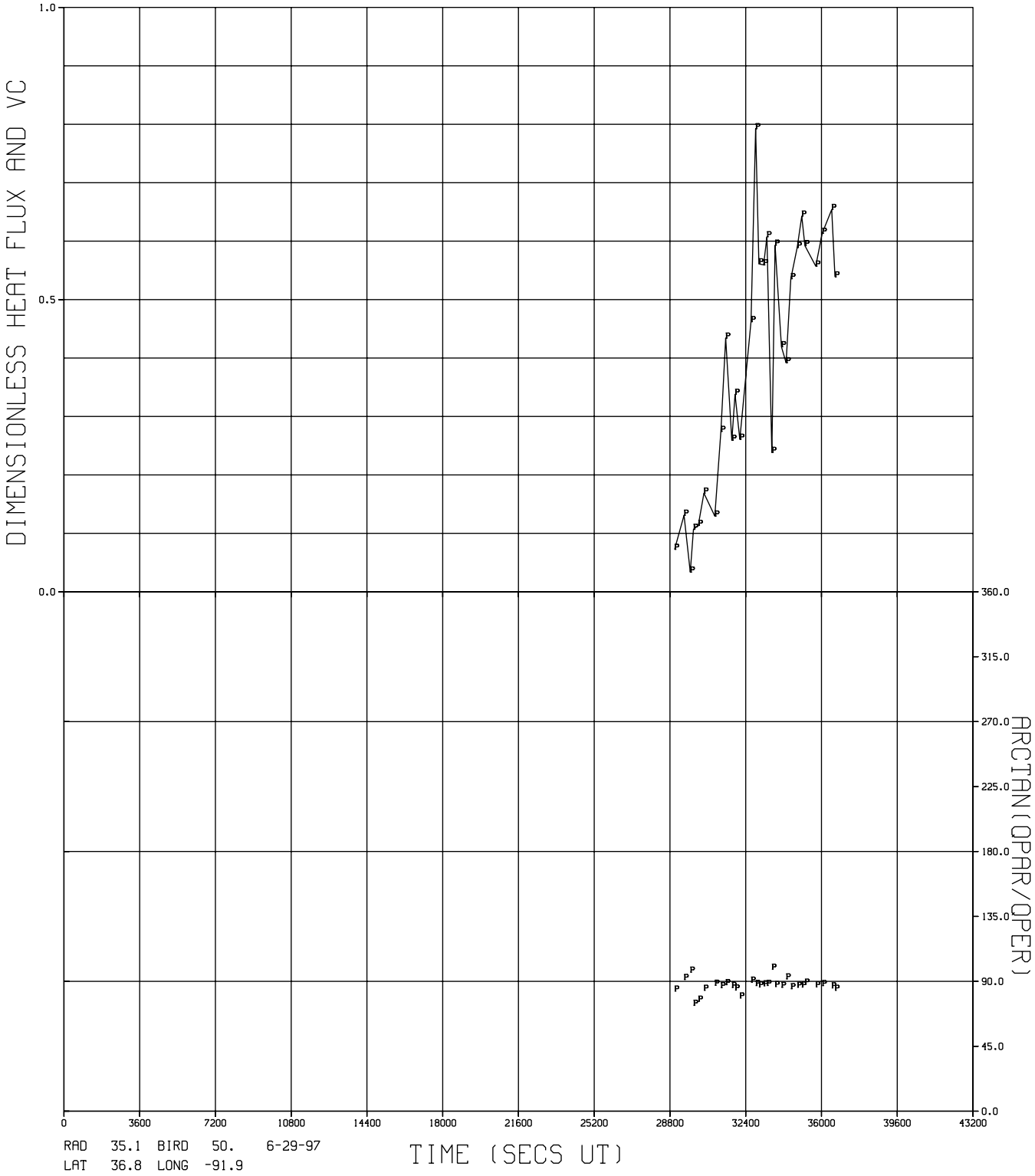

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9
TIME (SECS UT)

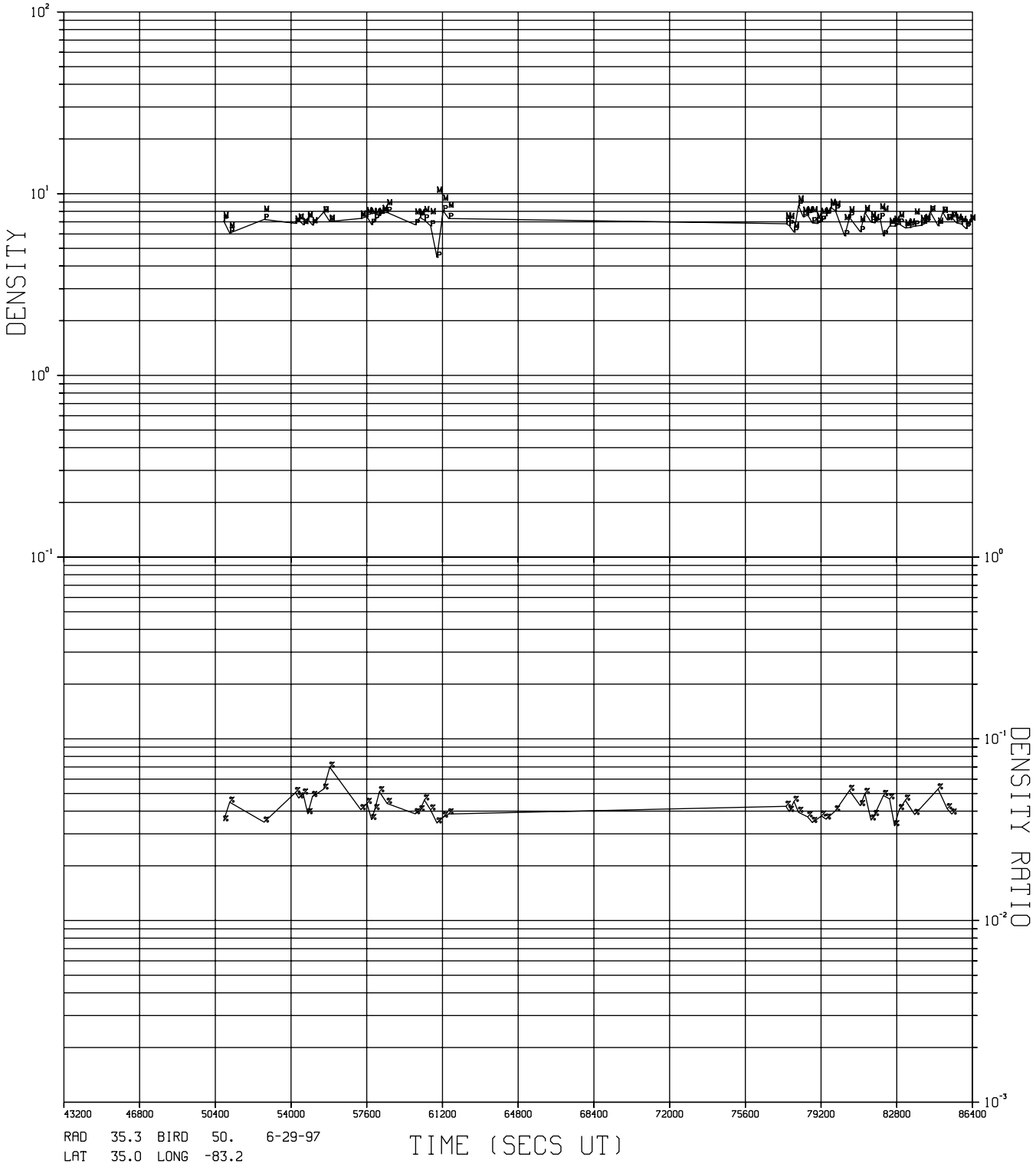

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9

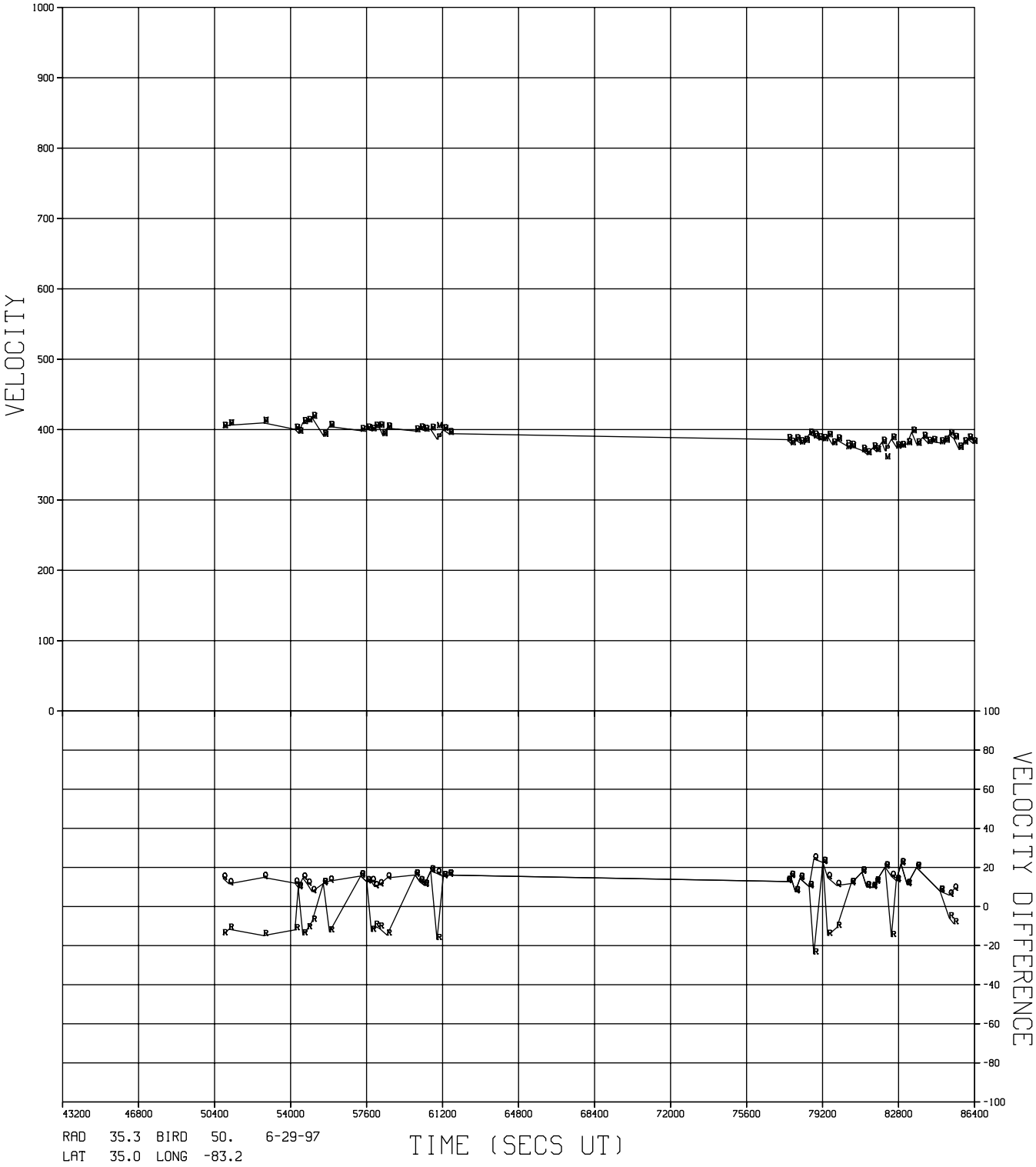

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9
TIME (SECS UT)

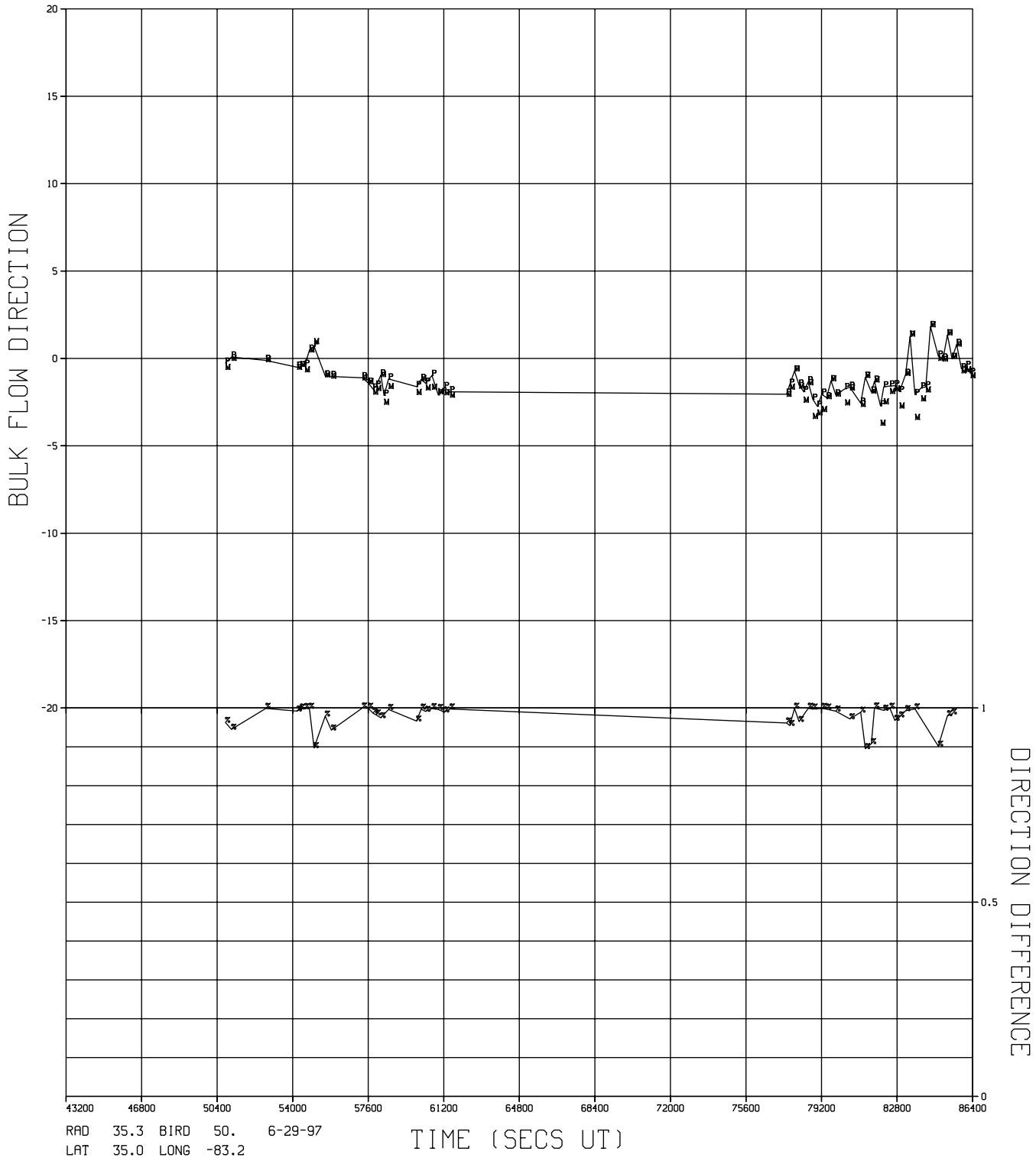

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9

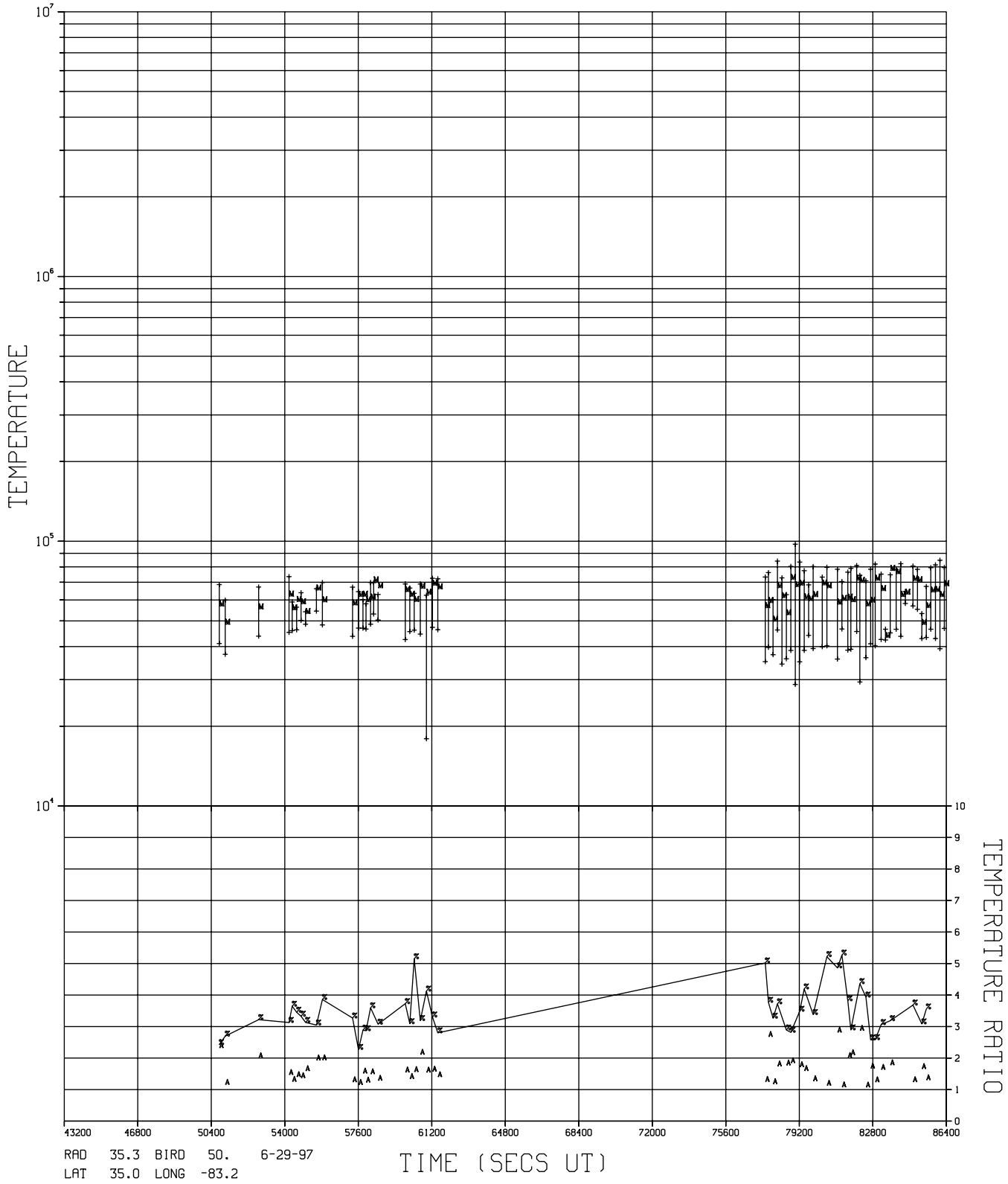

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9

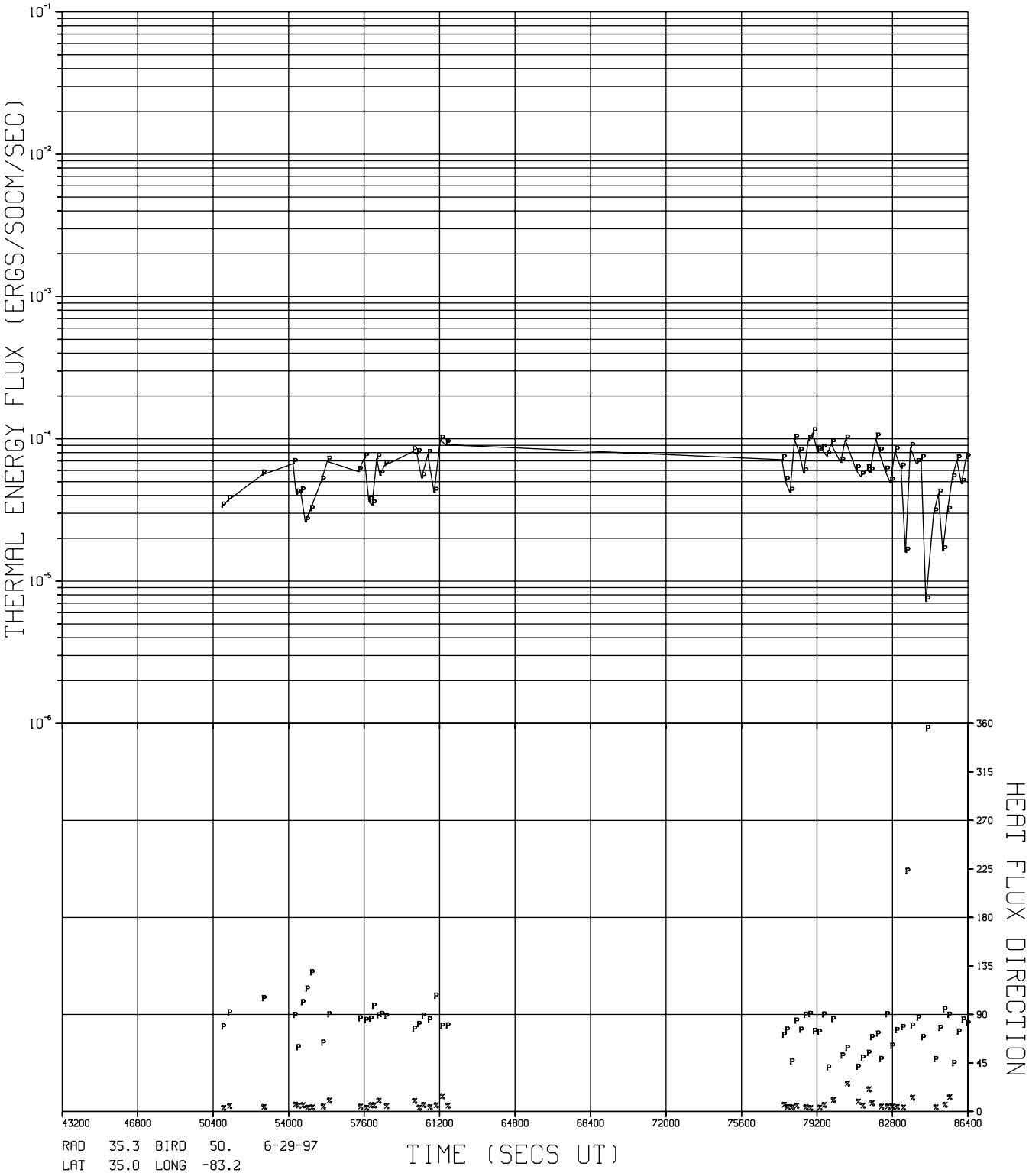

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.1 BIRD 50. 6-29-97
LAT 36.8 LONG -91.9
TIME (SECS UT)

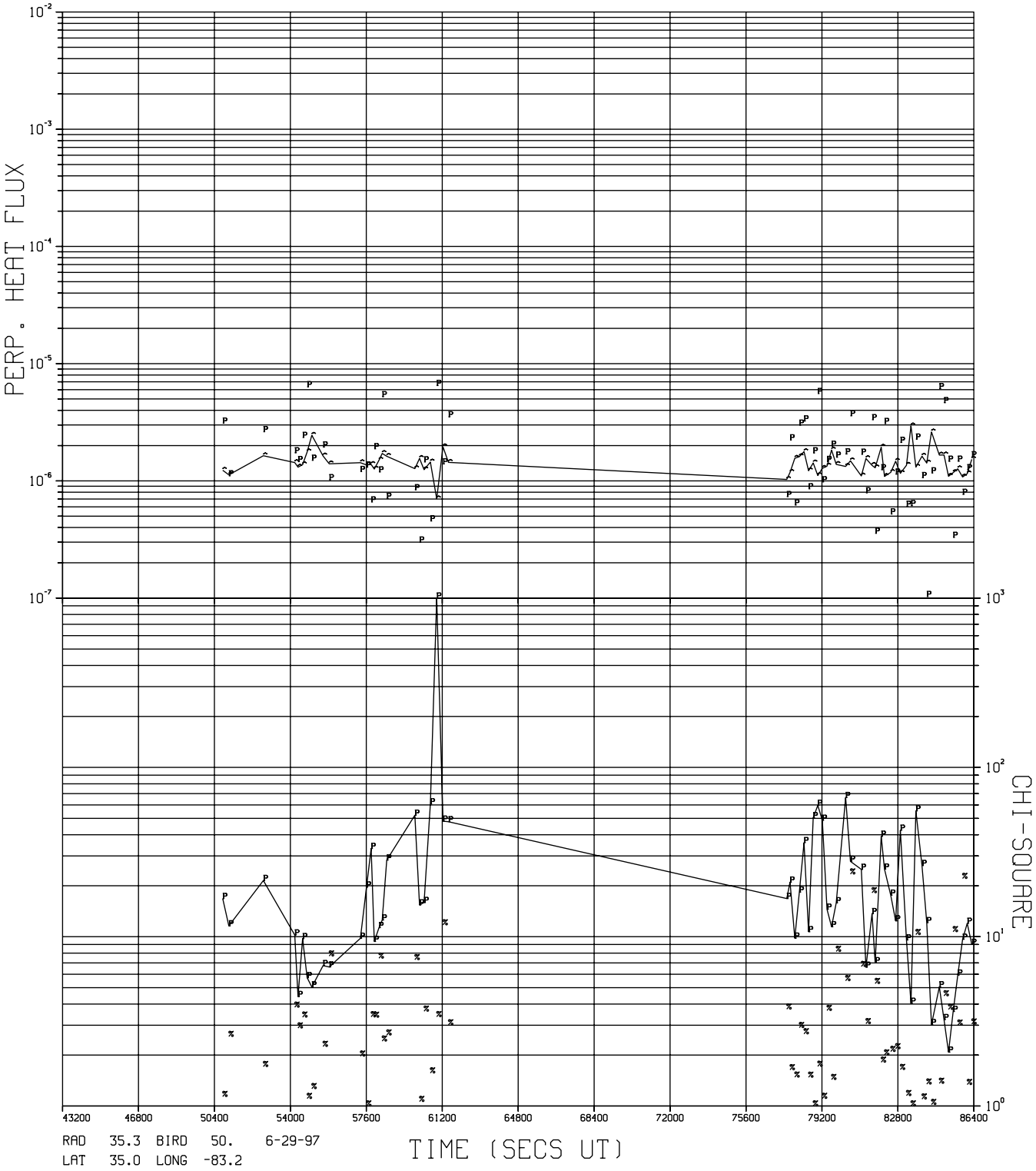

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

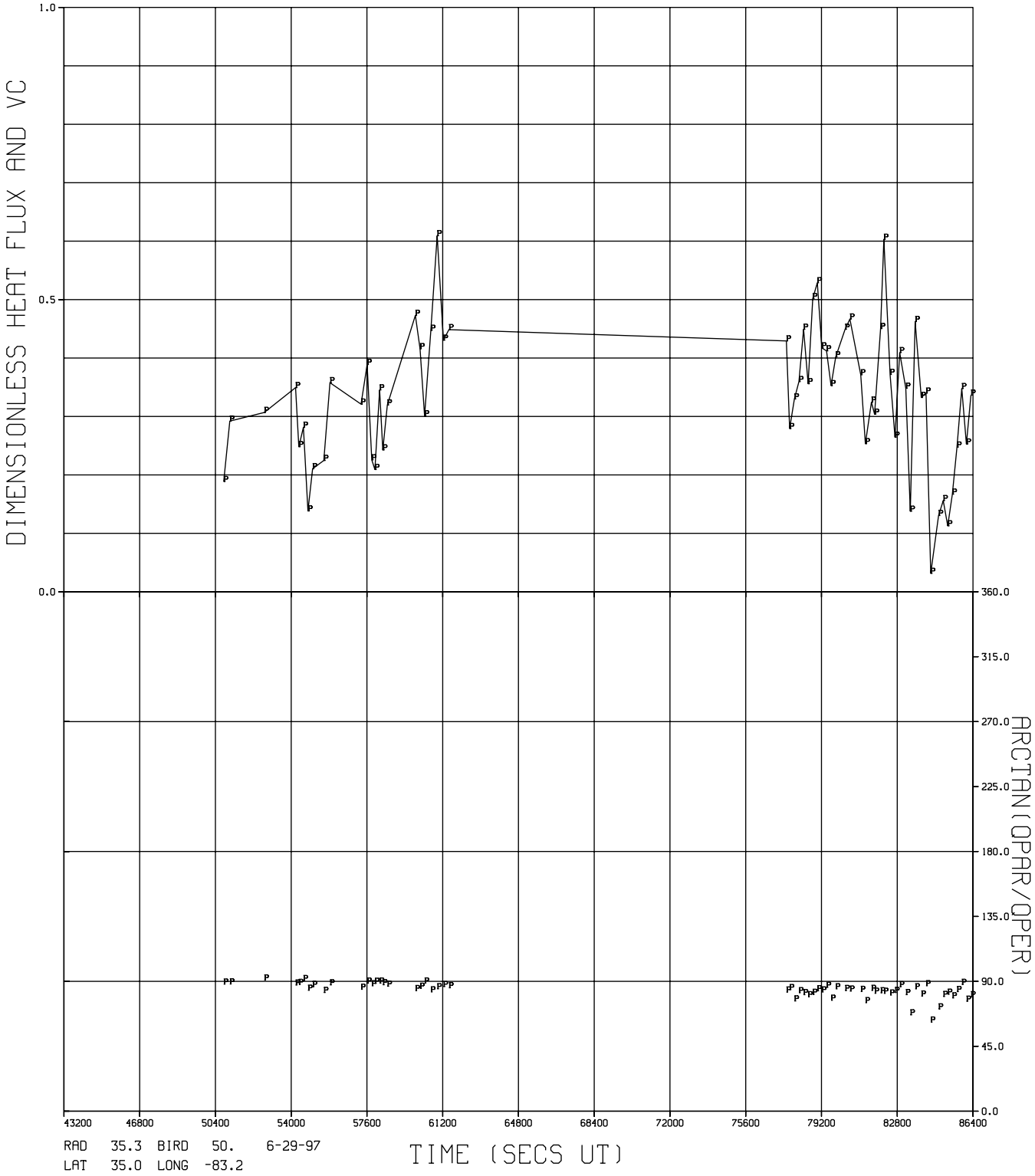

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

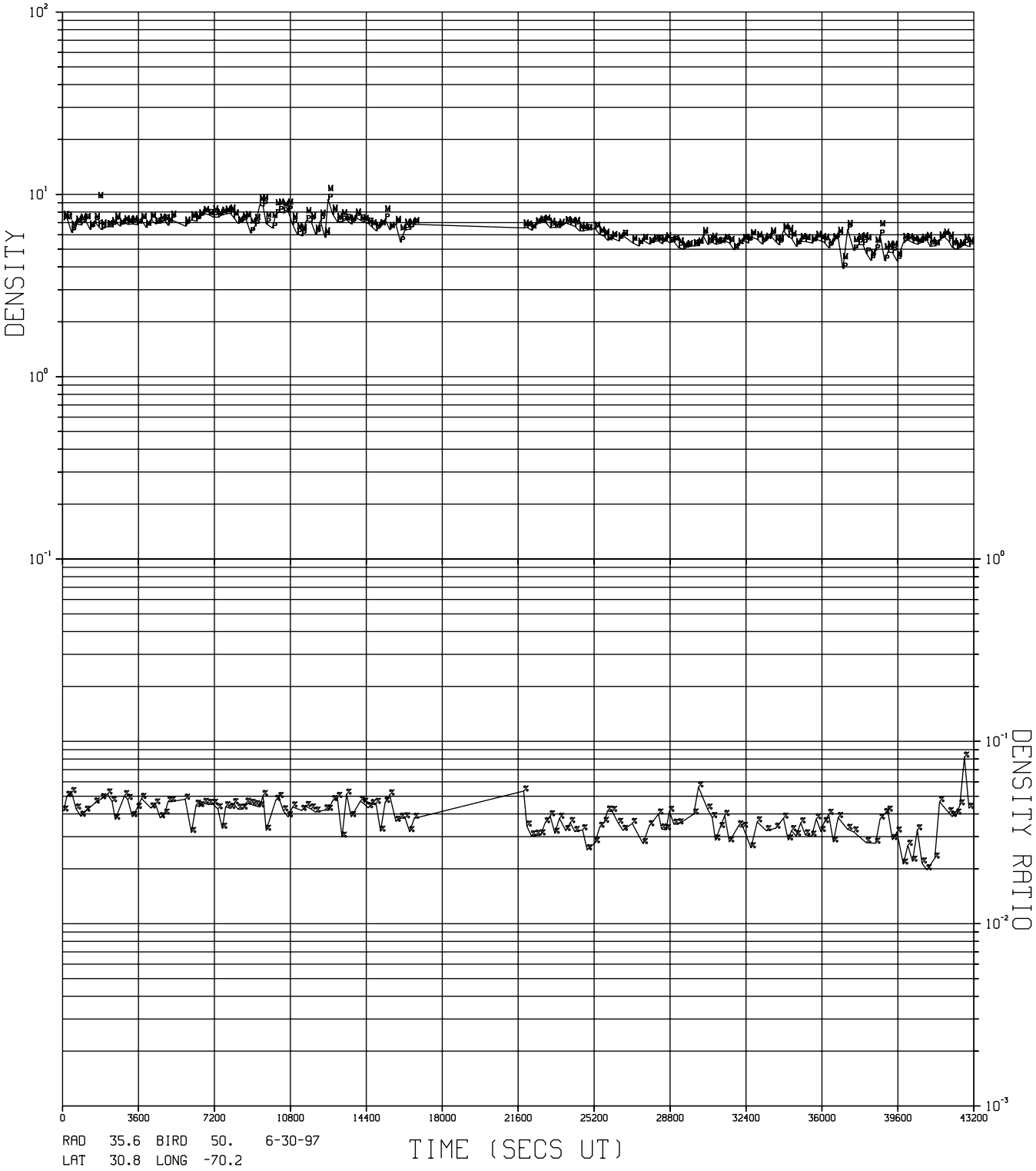

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

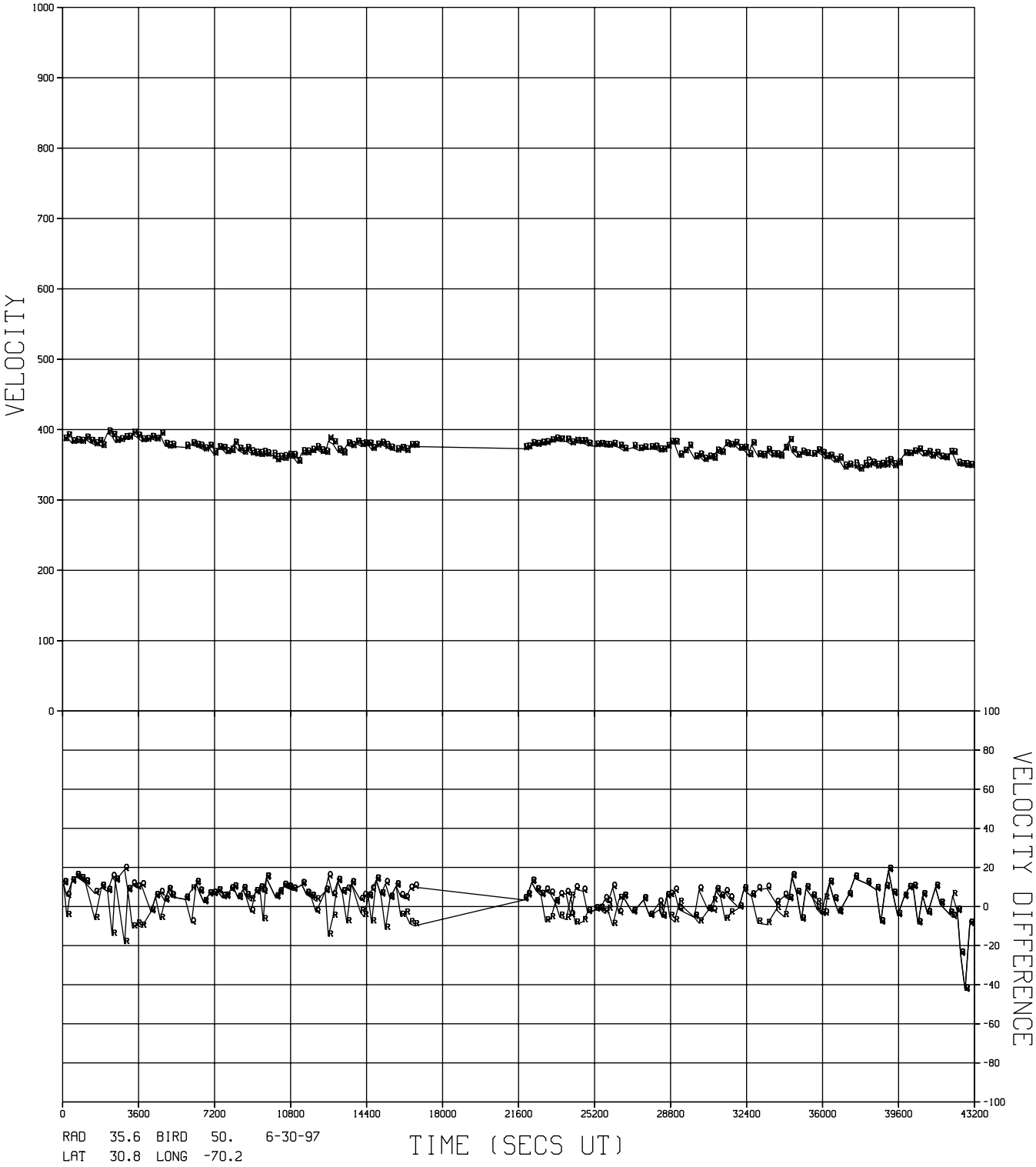

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

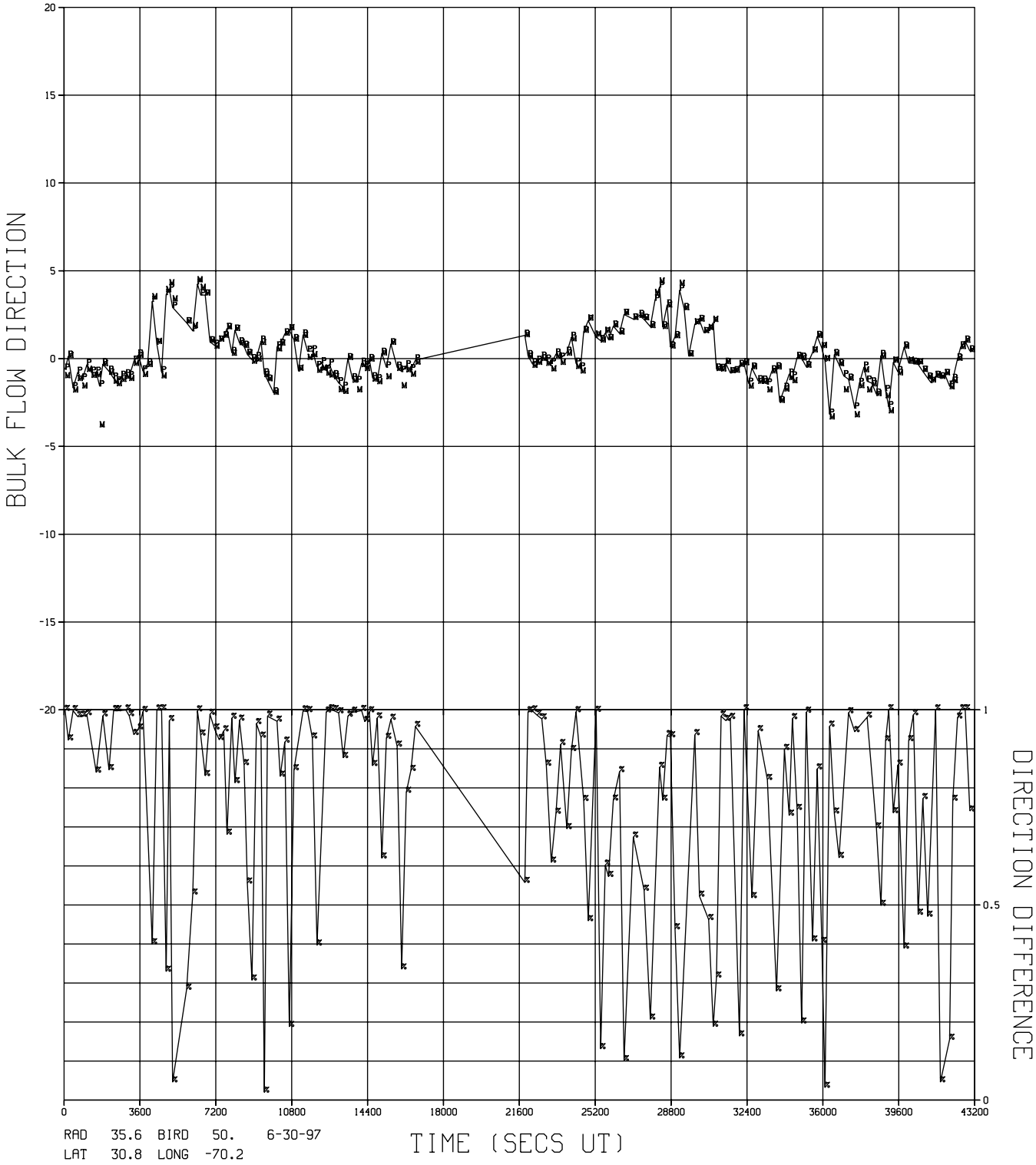

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

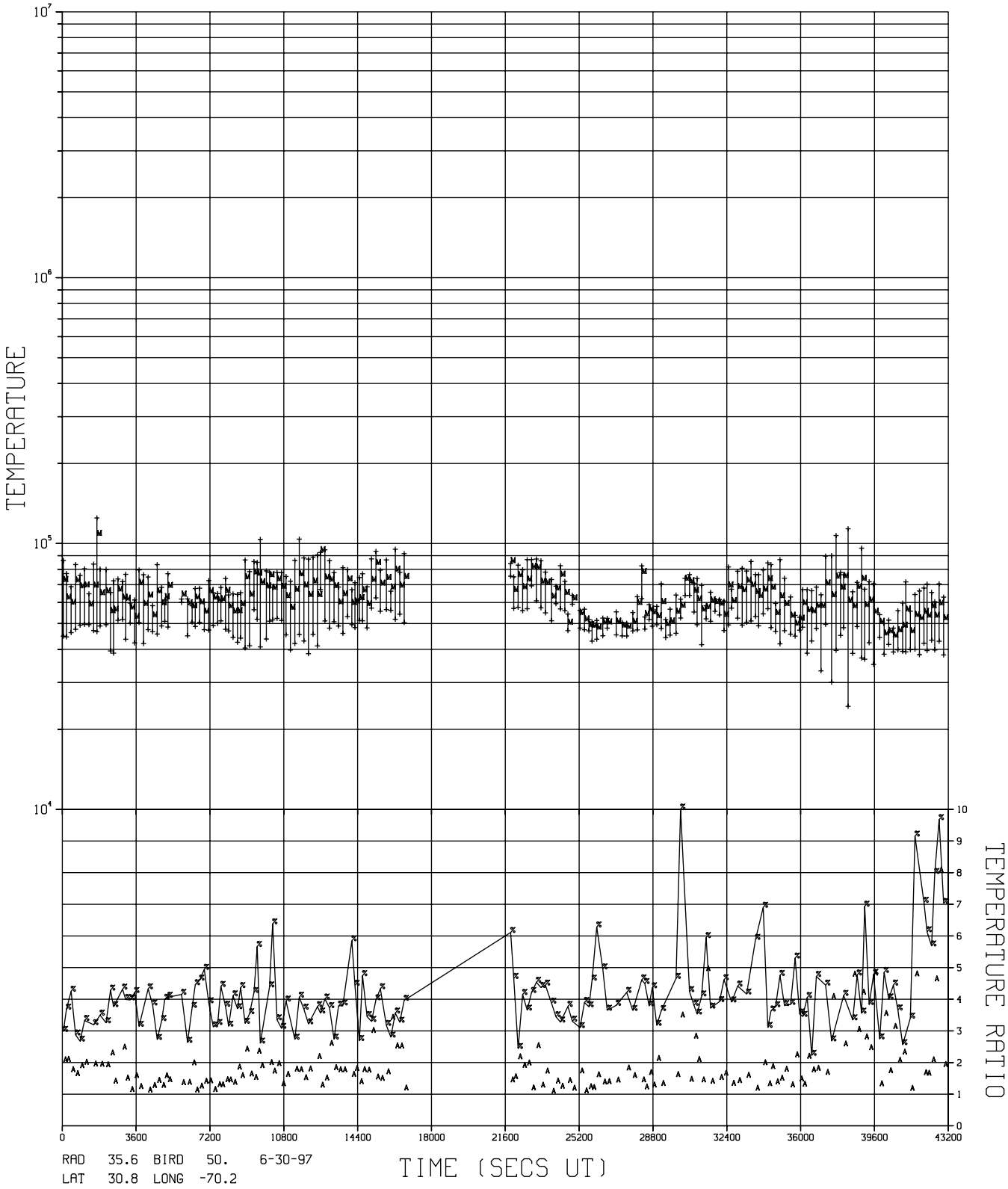

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

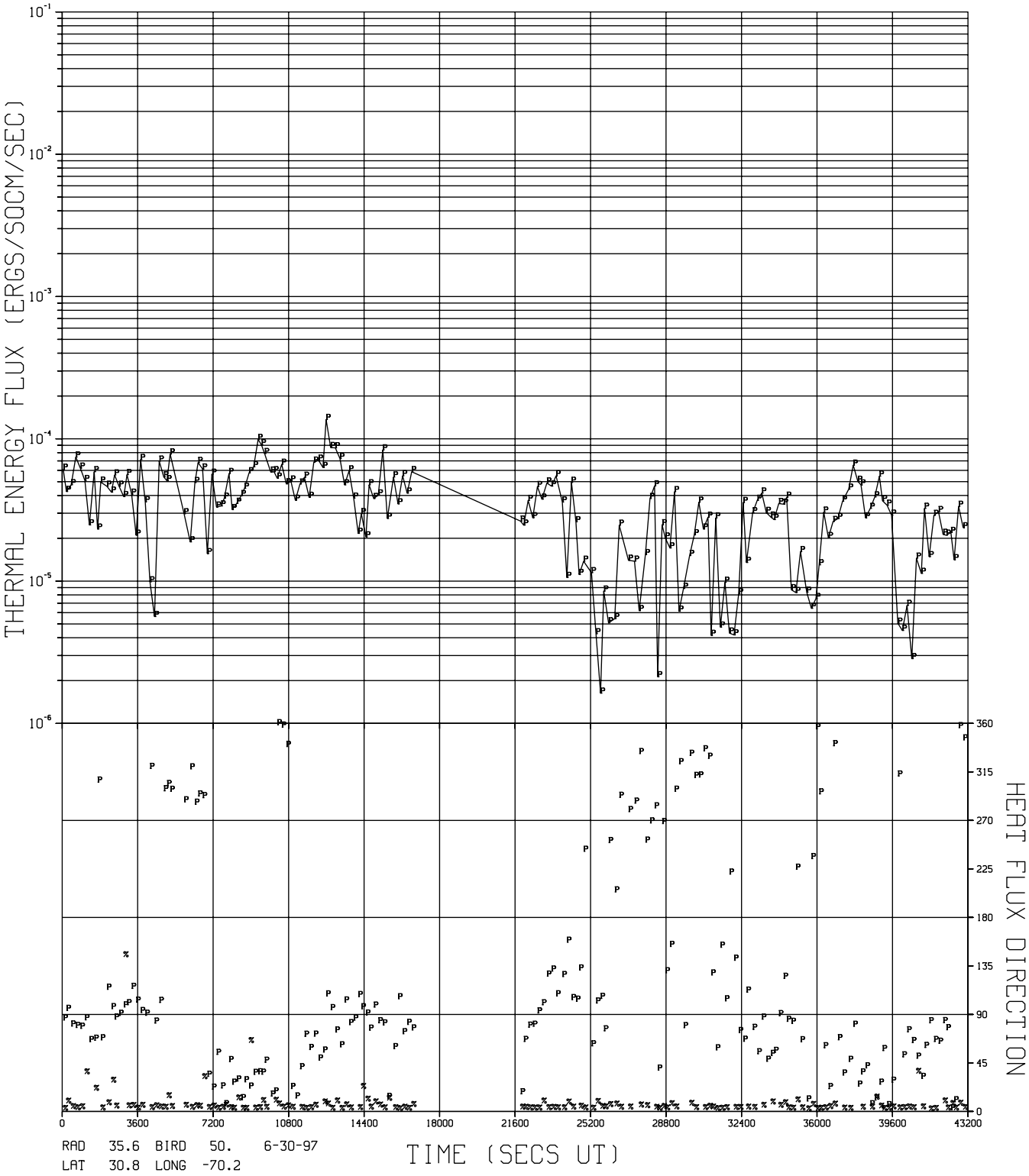

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.3 BIRD 50. 6-29-97
LAT 35.0 LONG -83.2

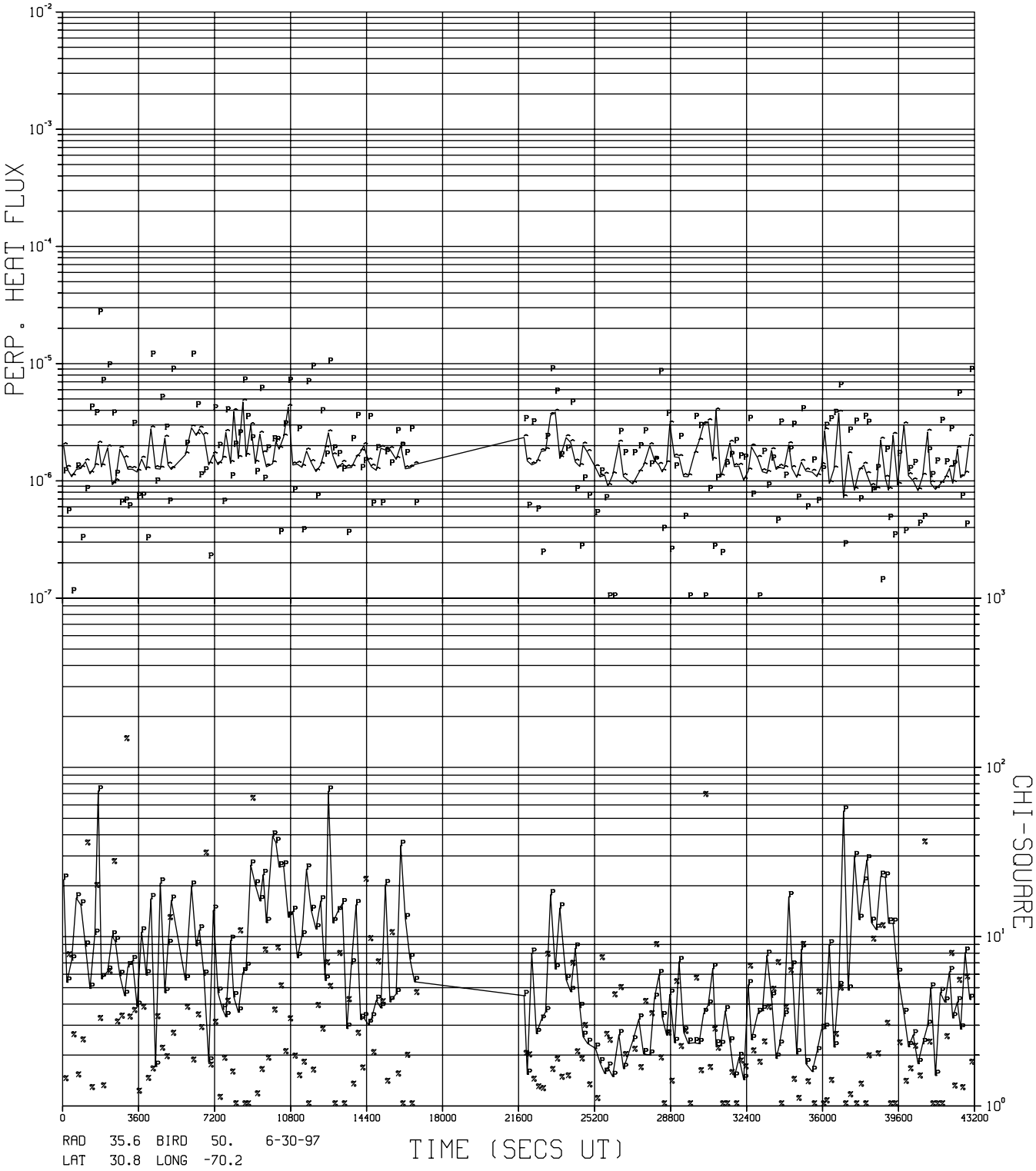

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2

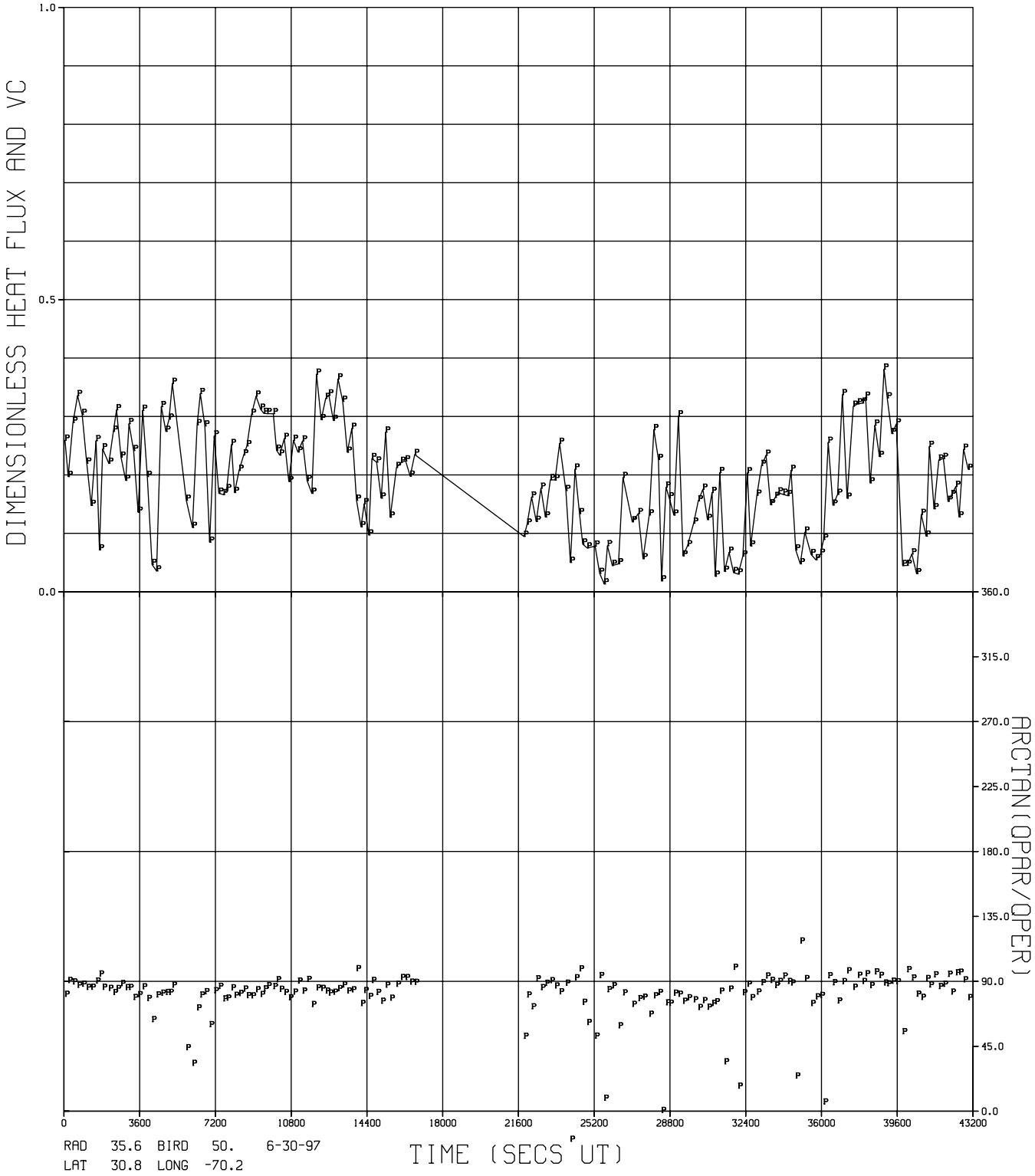

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2
TIME (SECS UT)

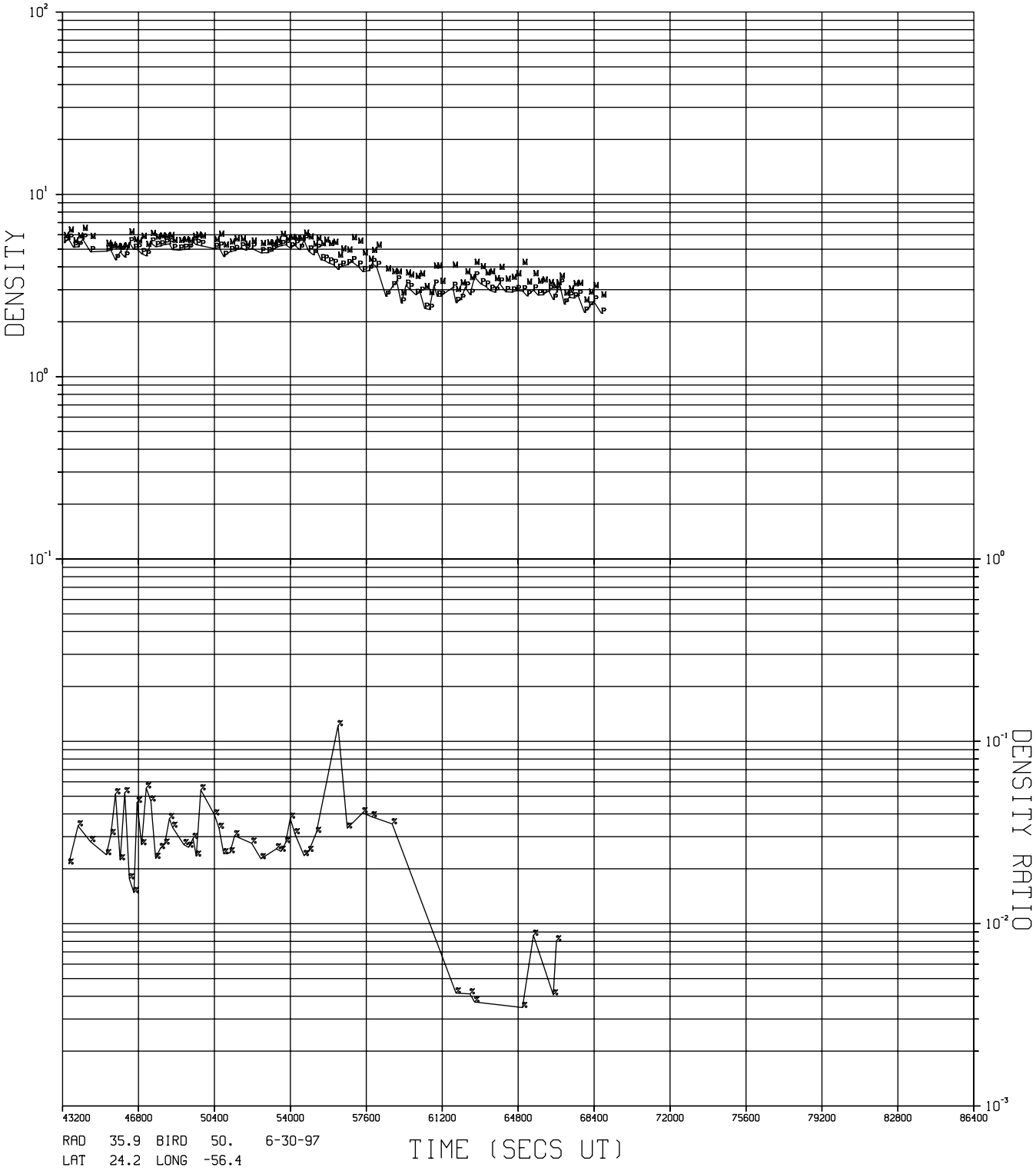

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2

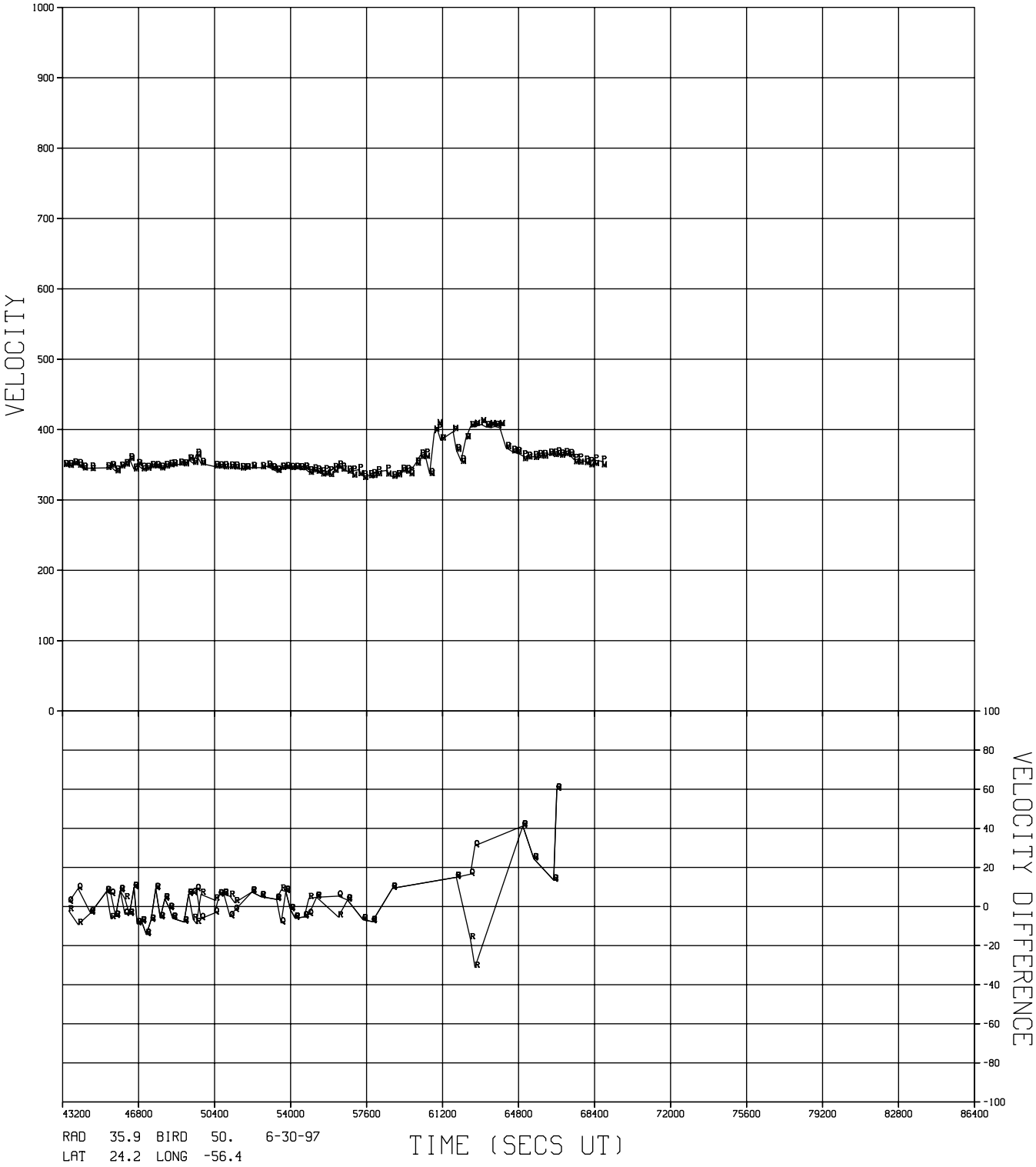

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2

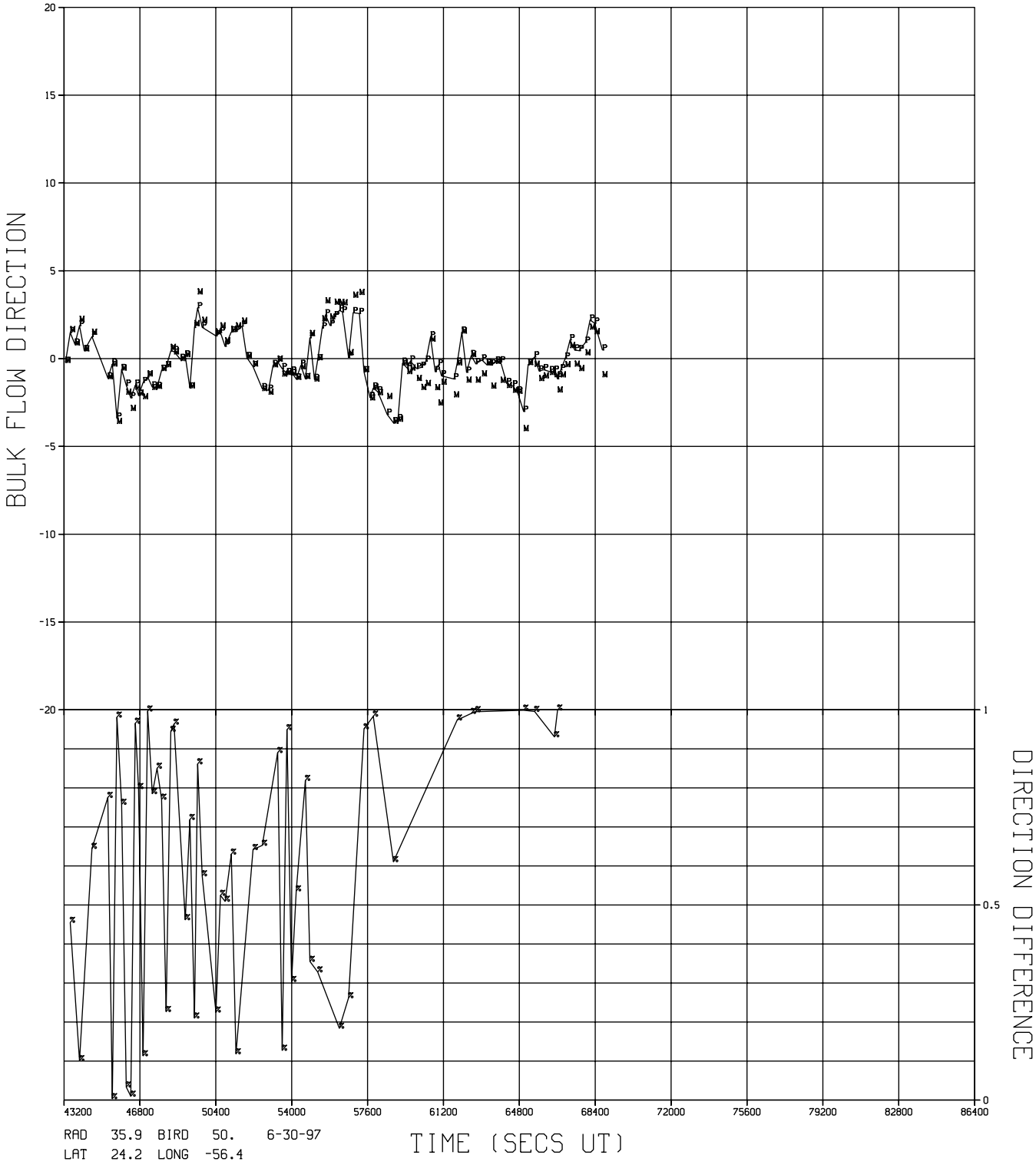

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2

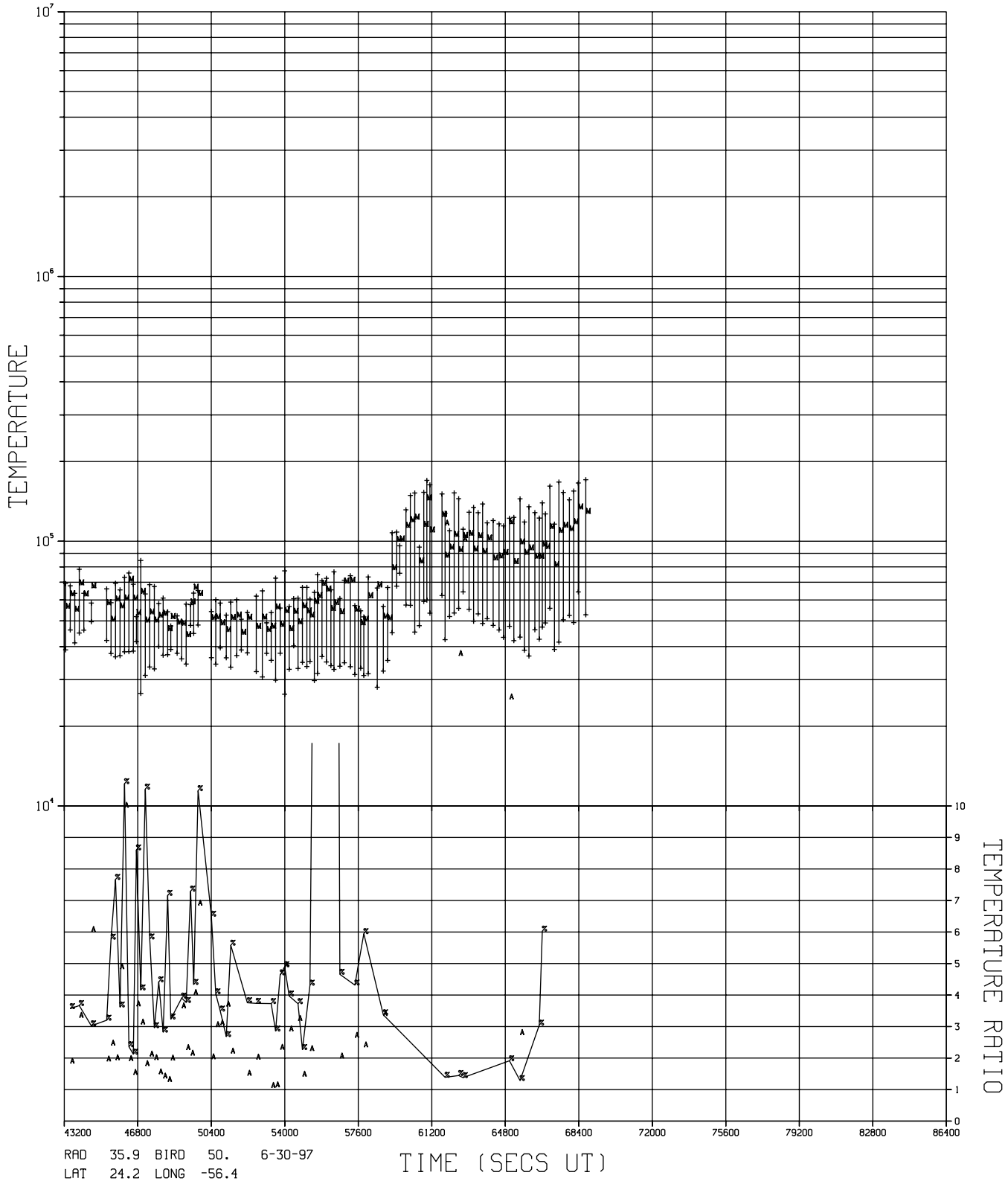

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 35.6 BIRD 50. 6-30-97
LAT 30.8 LONG -70.2

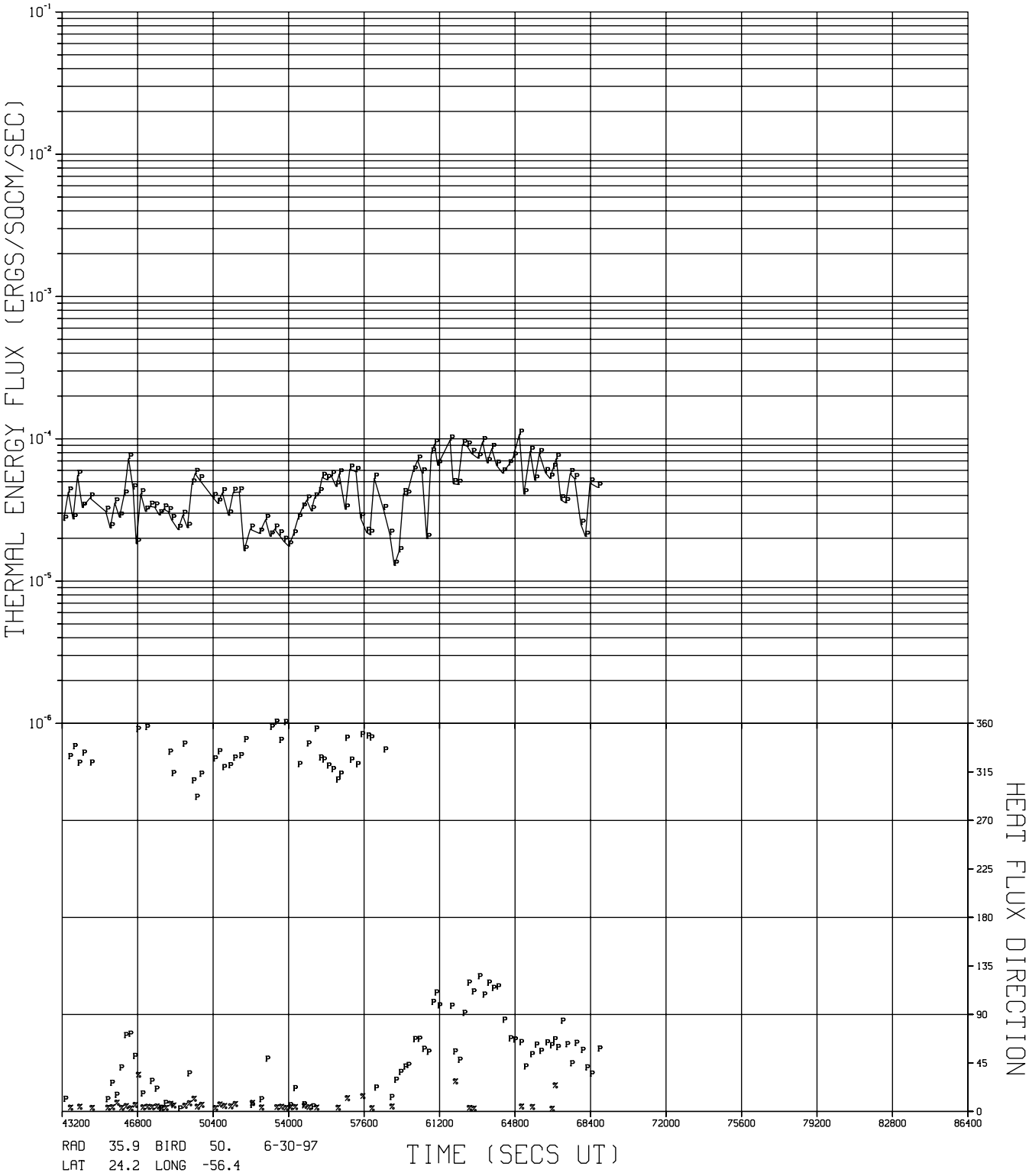

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4

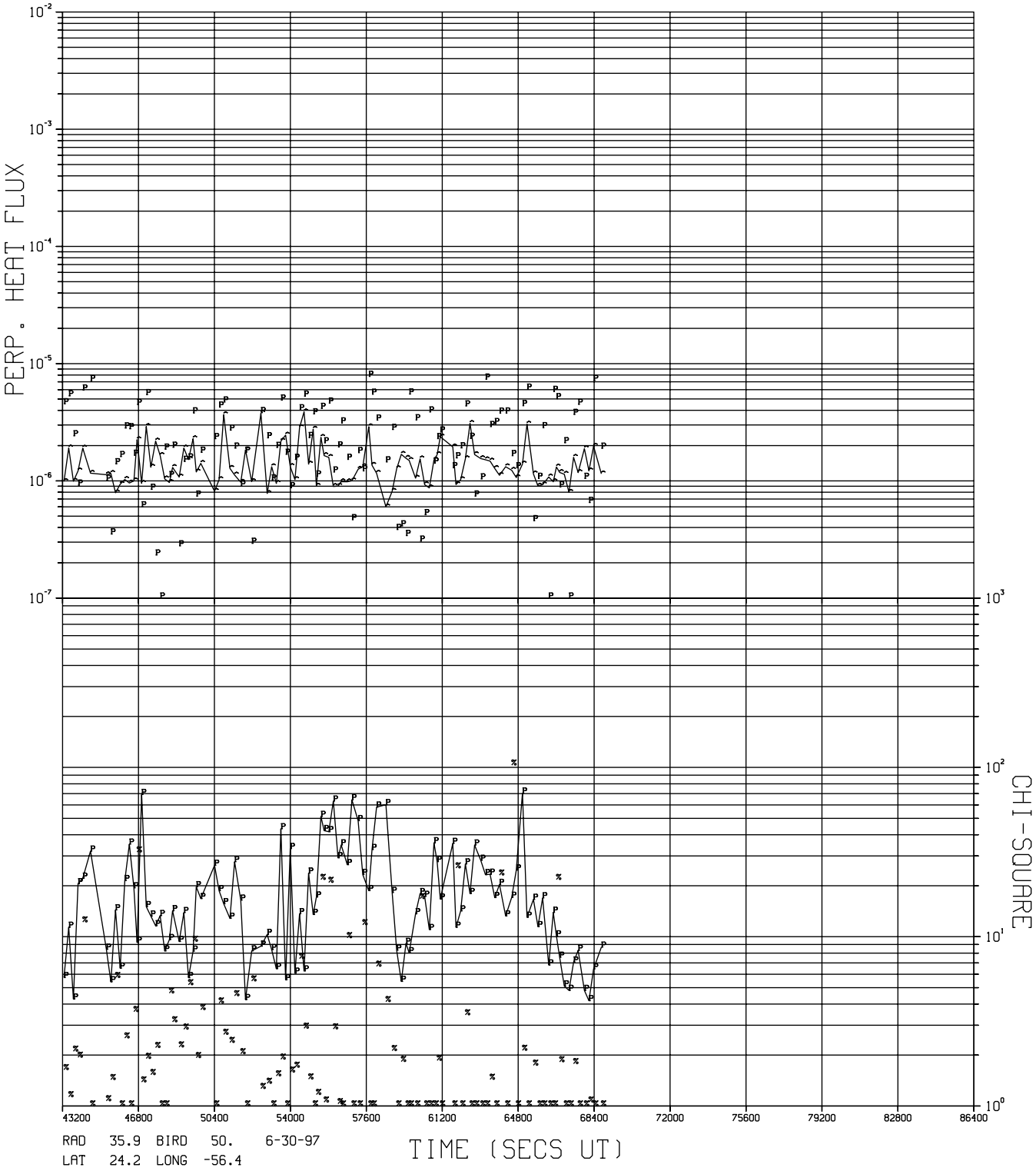


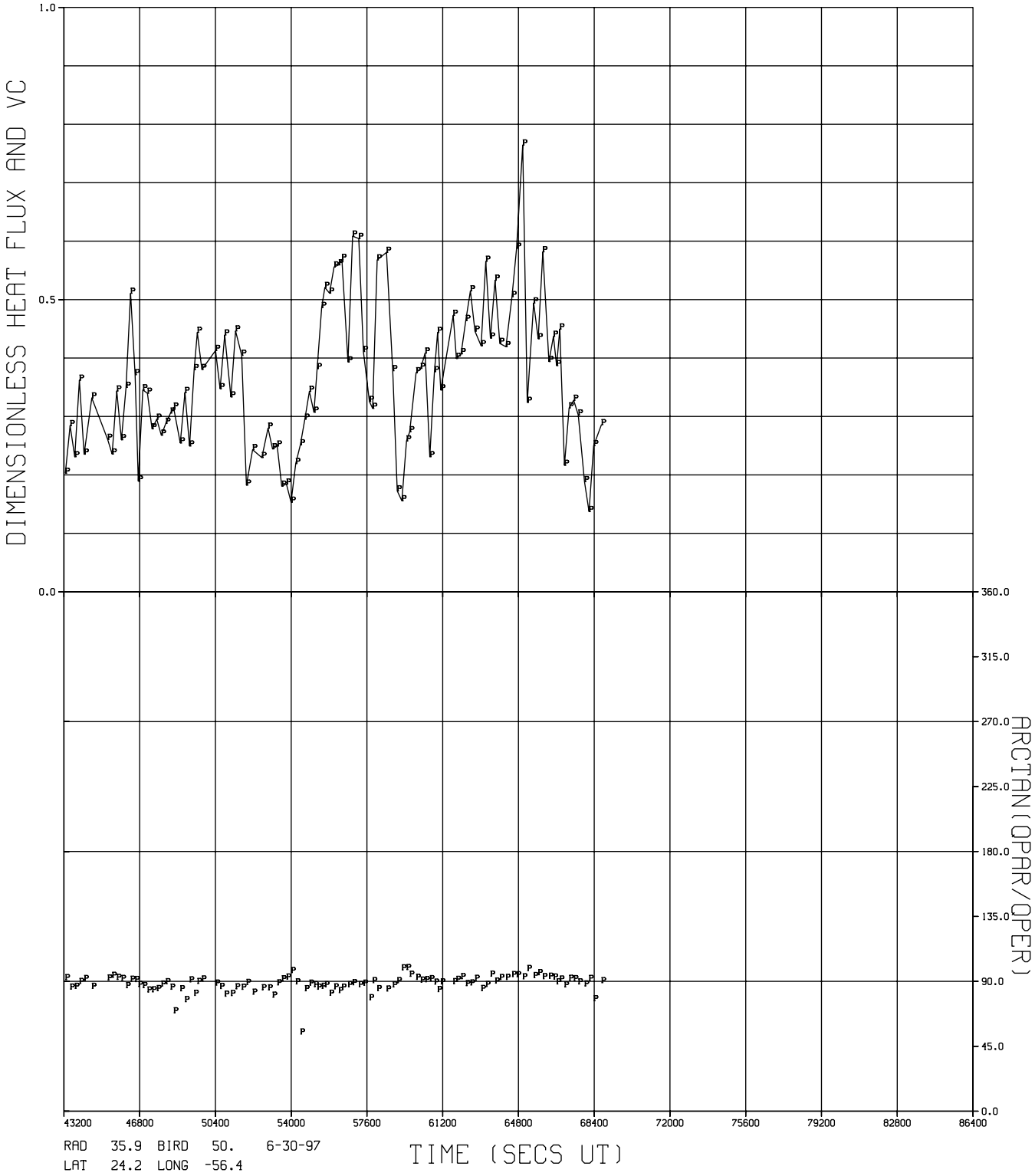
RAD 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4


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 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4


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 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4


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
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.9 BIRD 50. 6-30-97
LAT 24.2 LONG -56.4