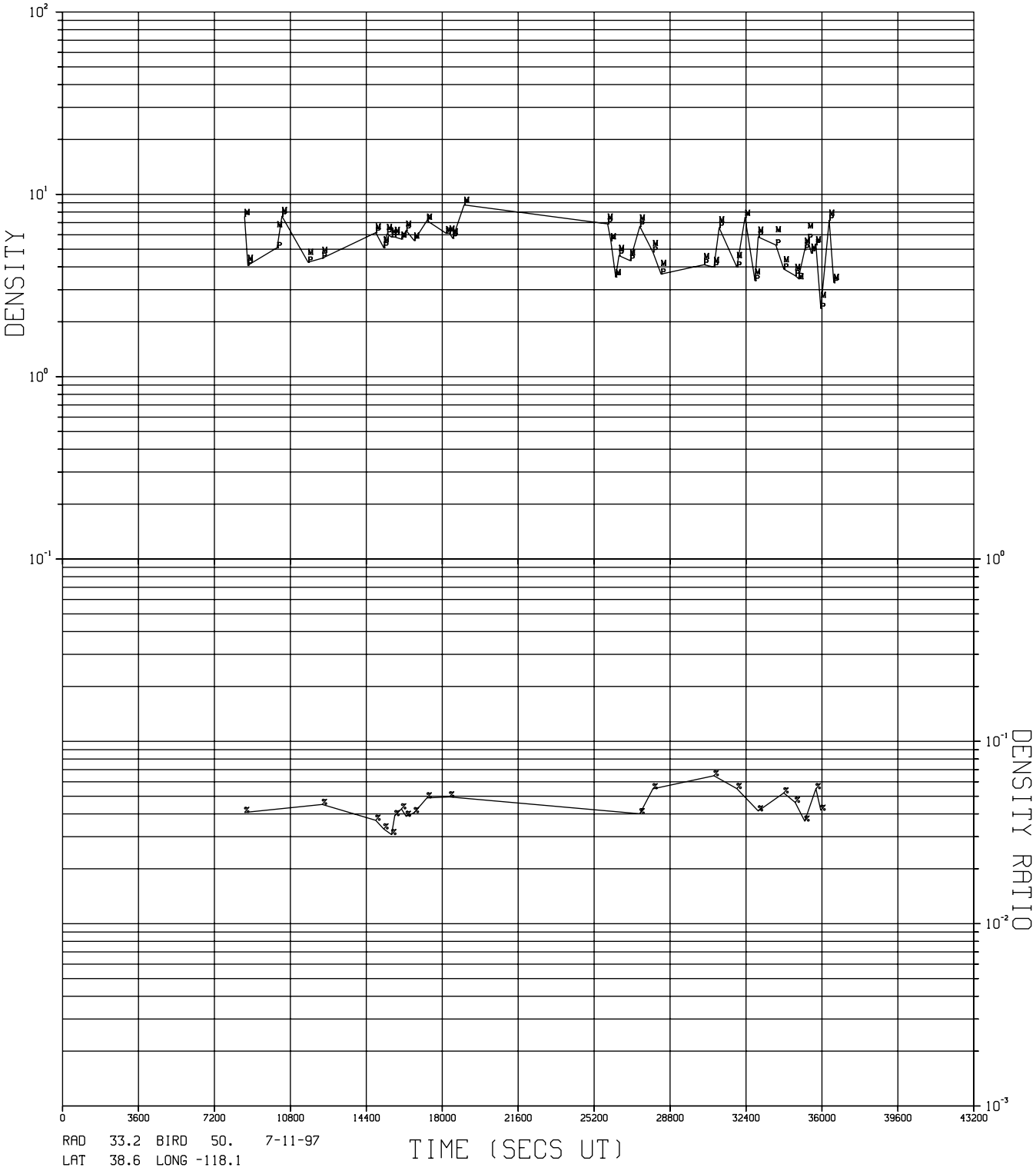
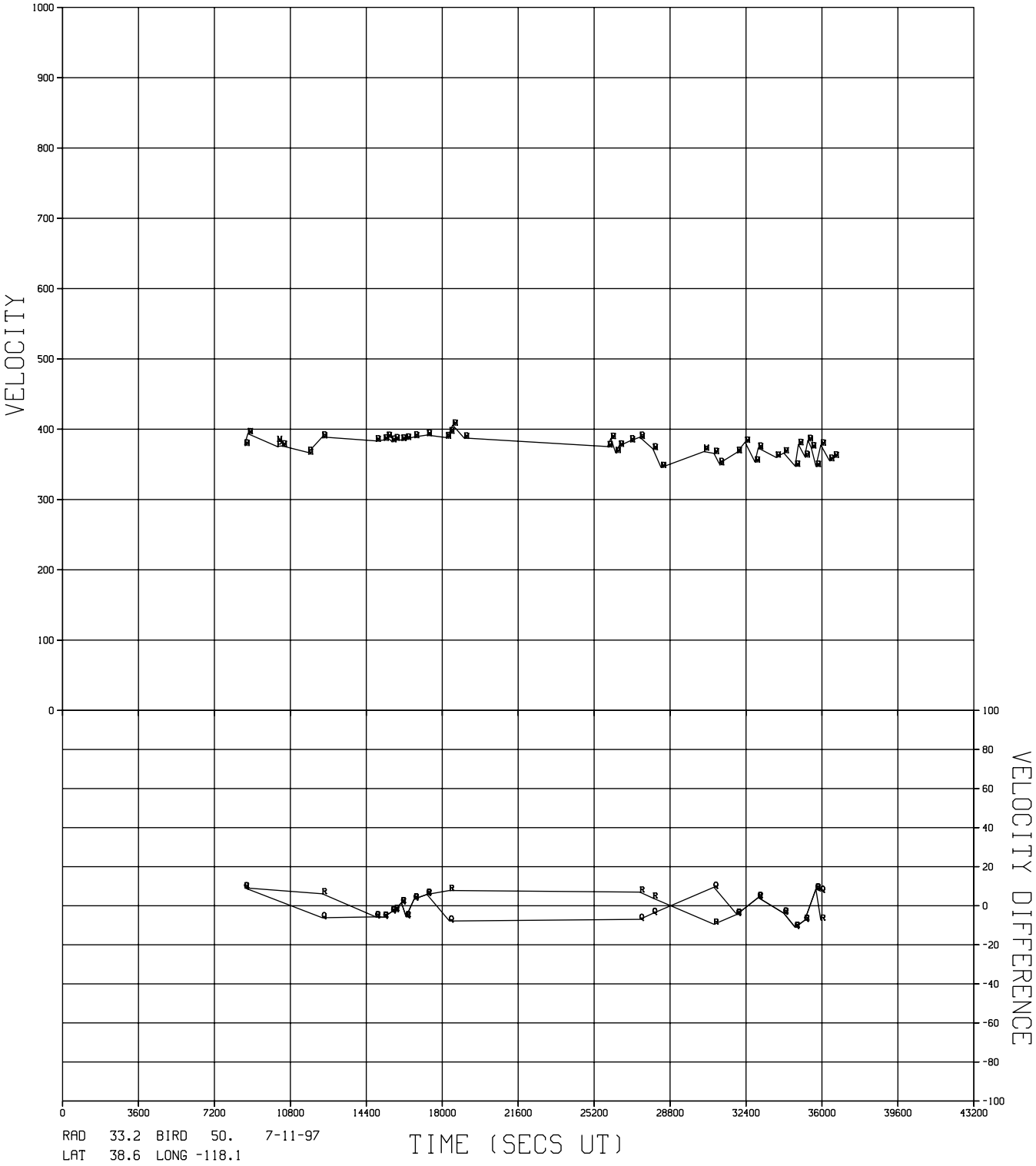
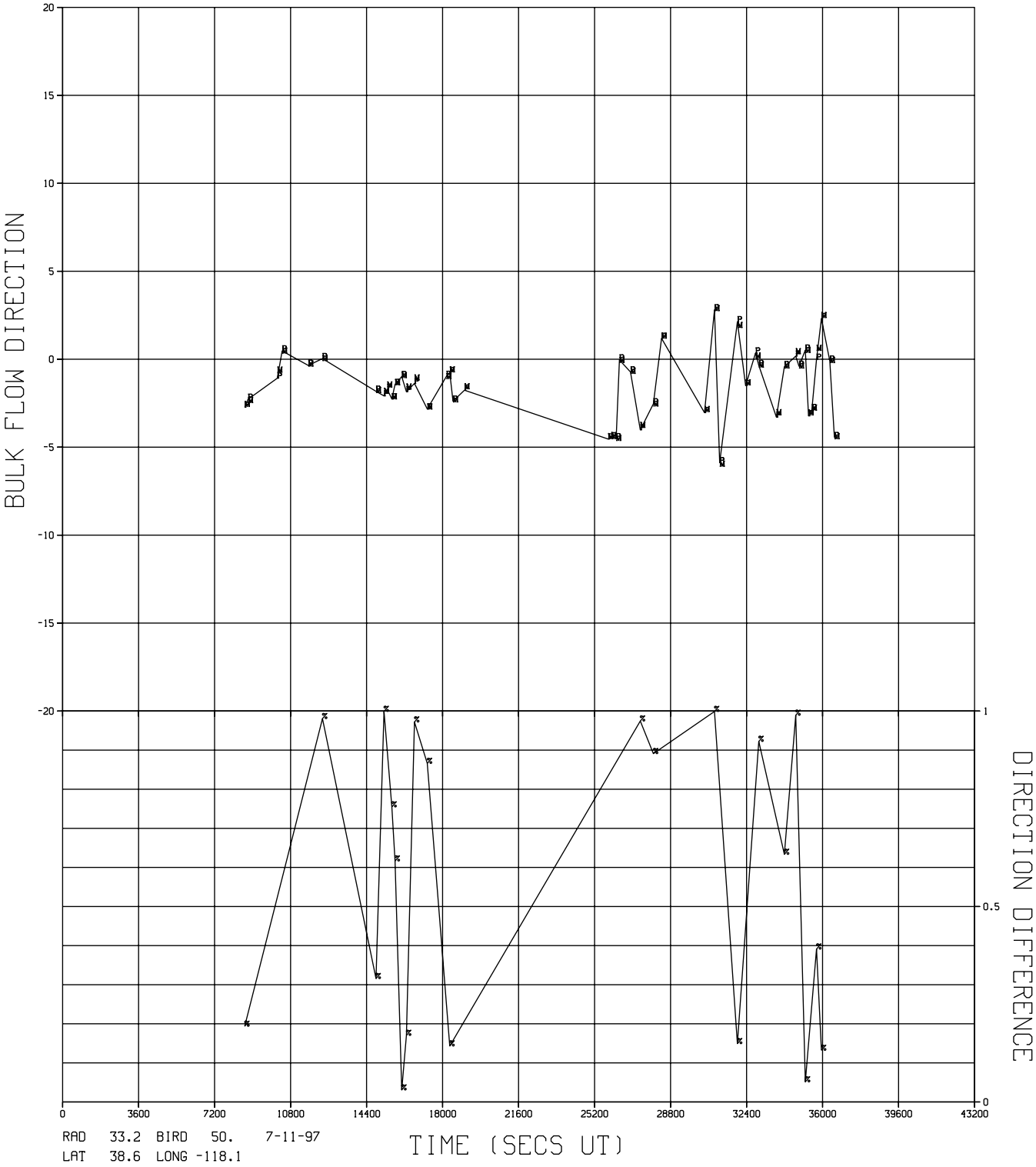
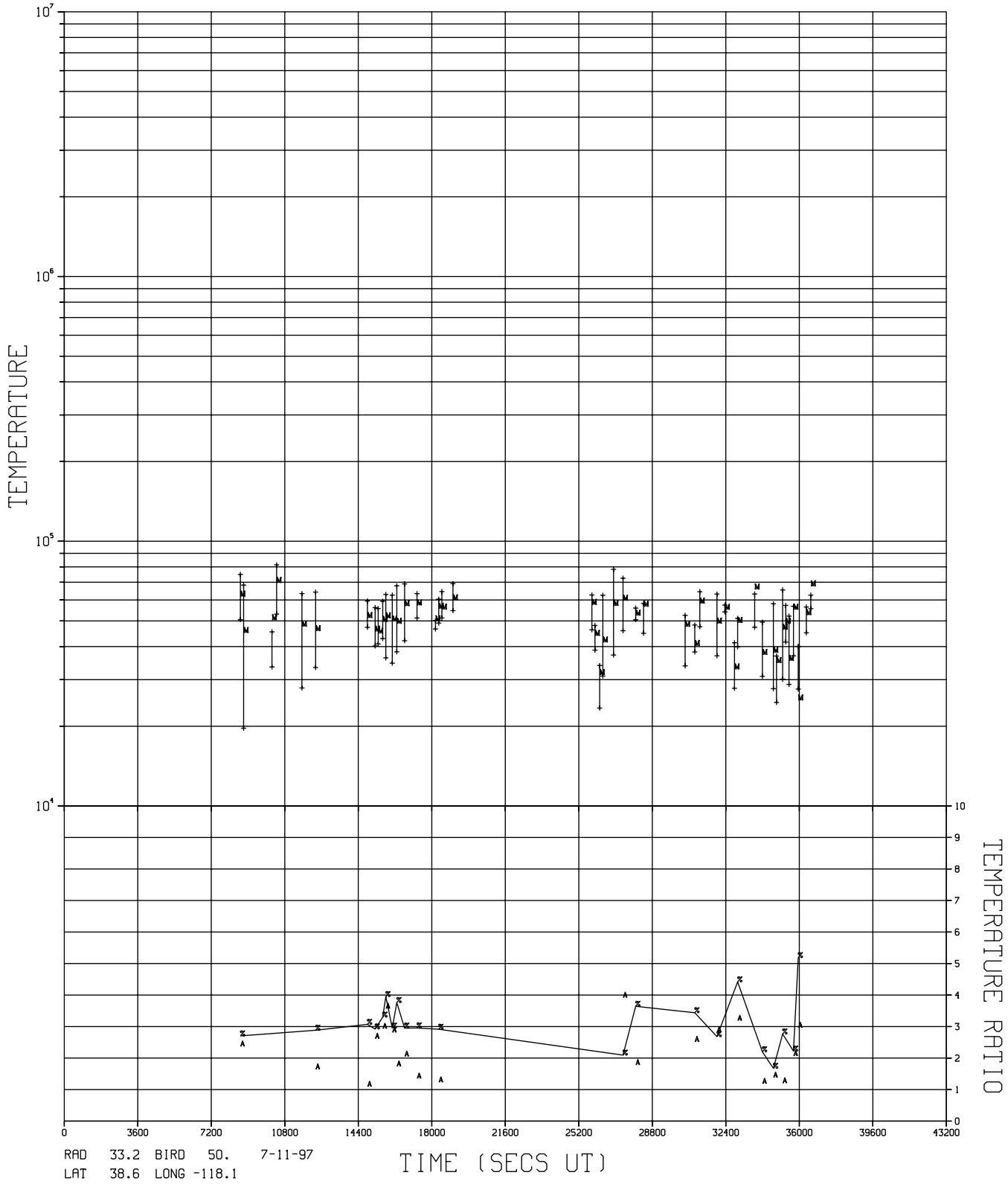
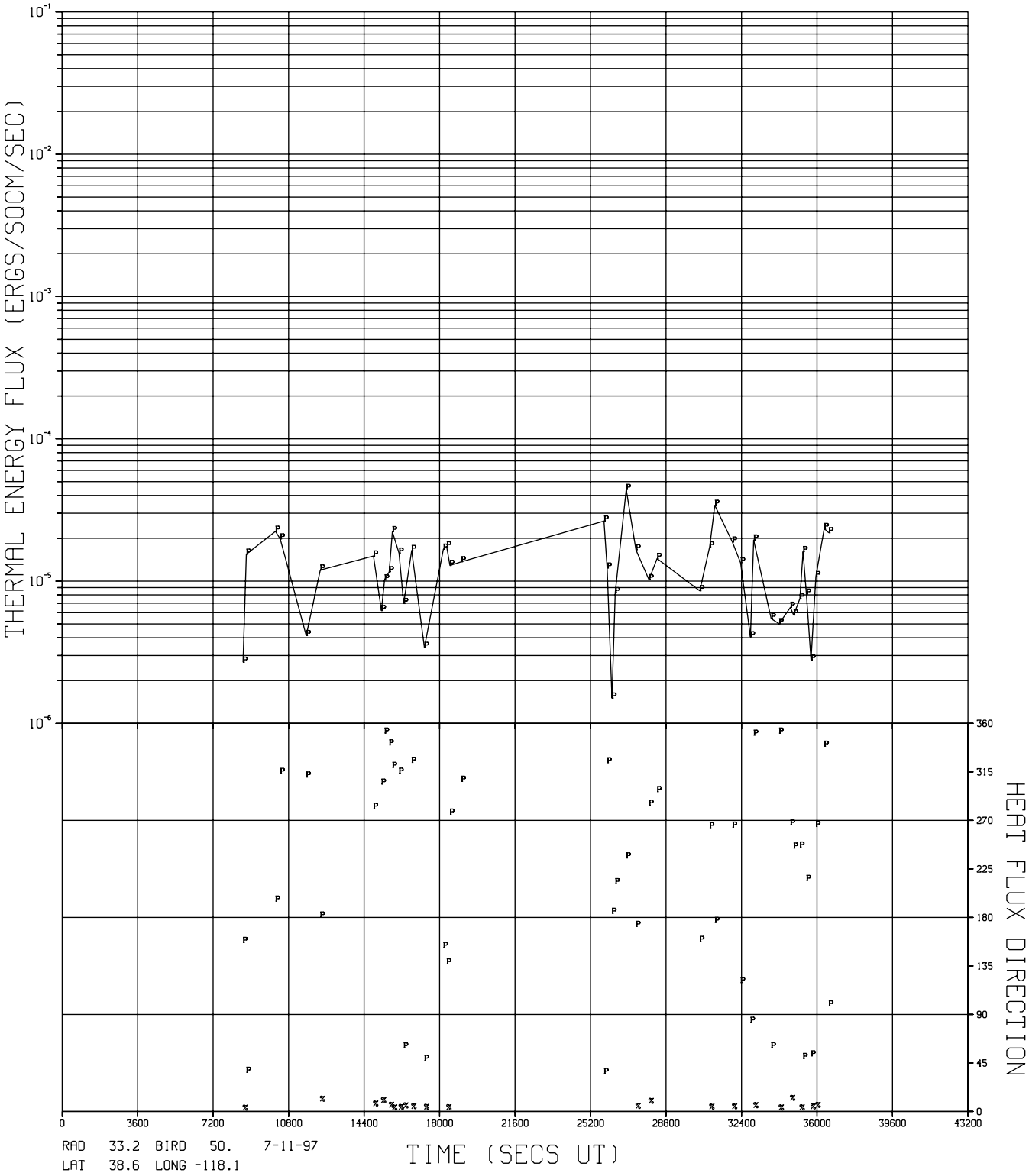
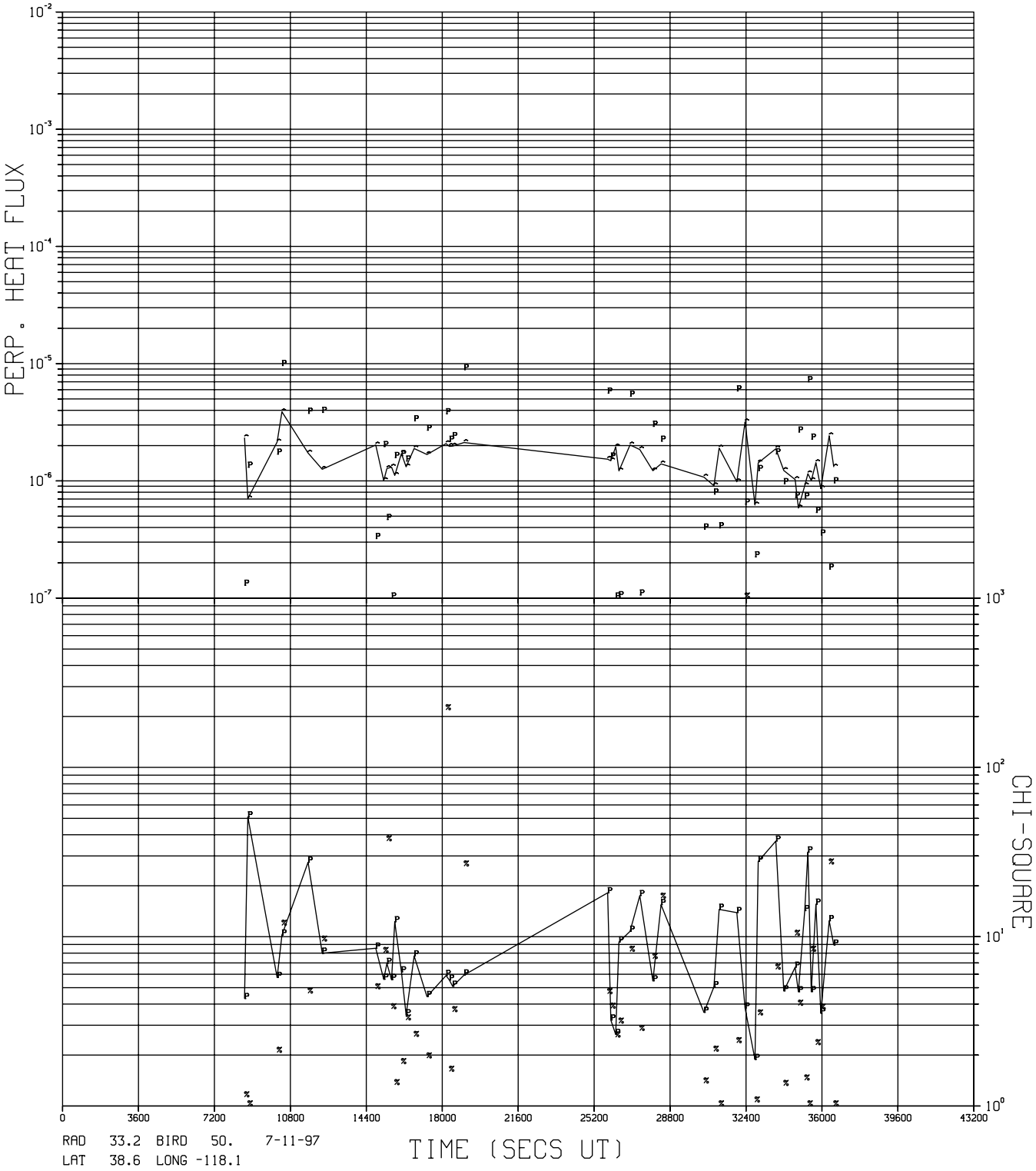

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

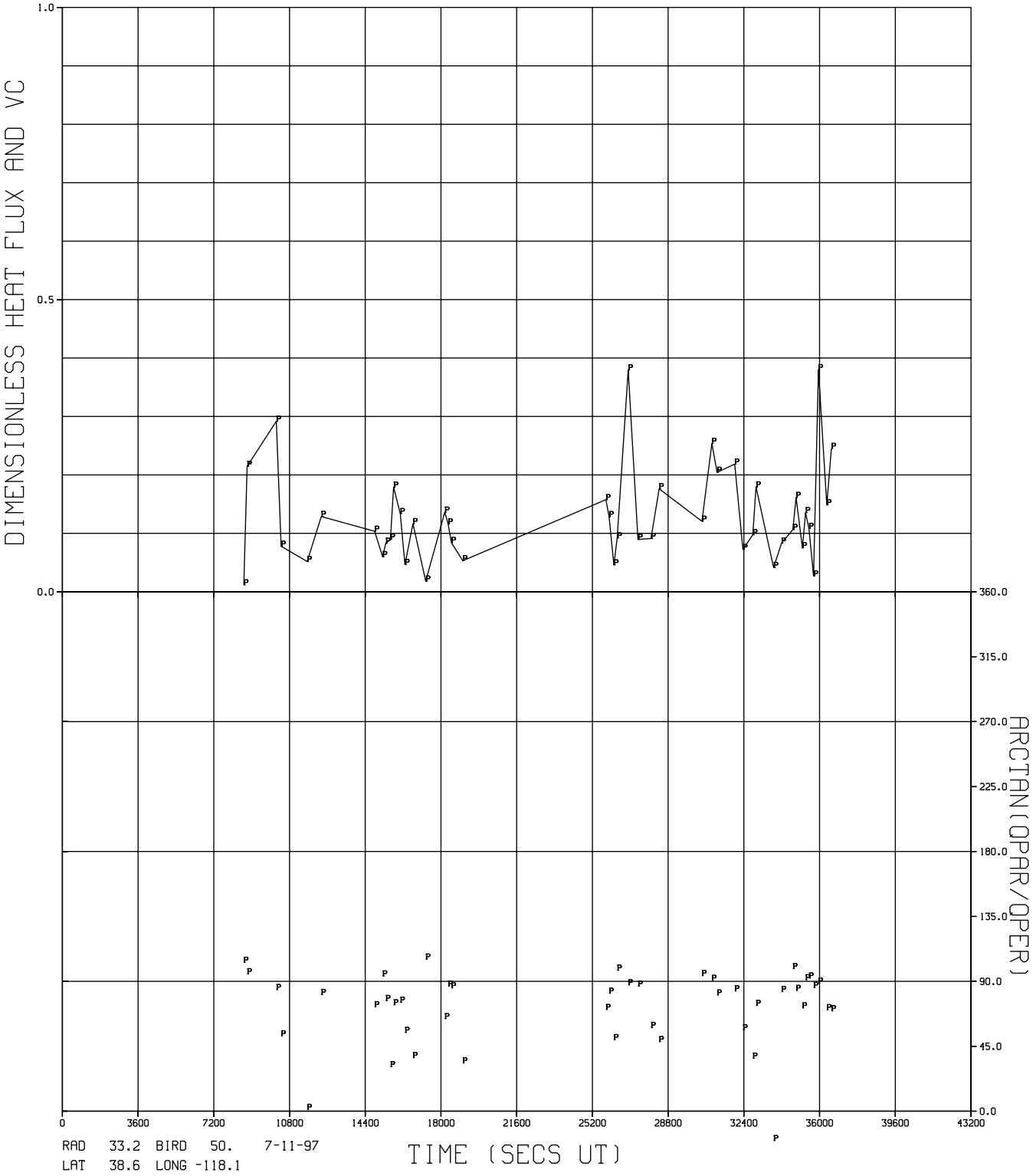

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

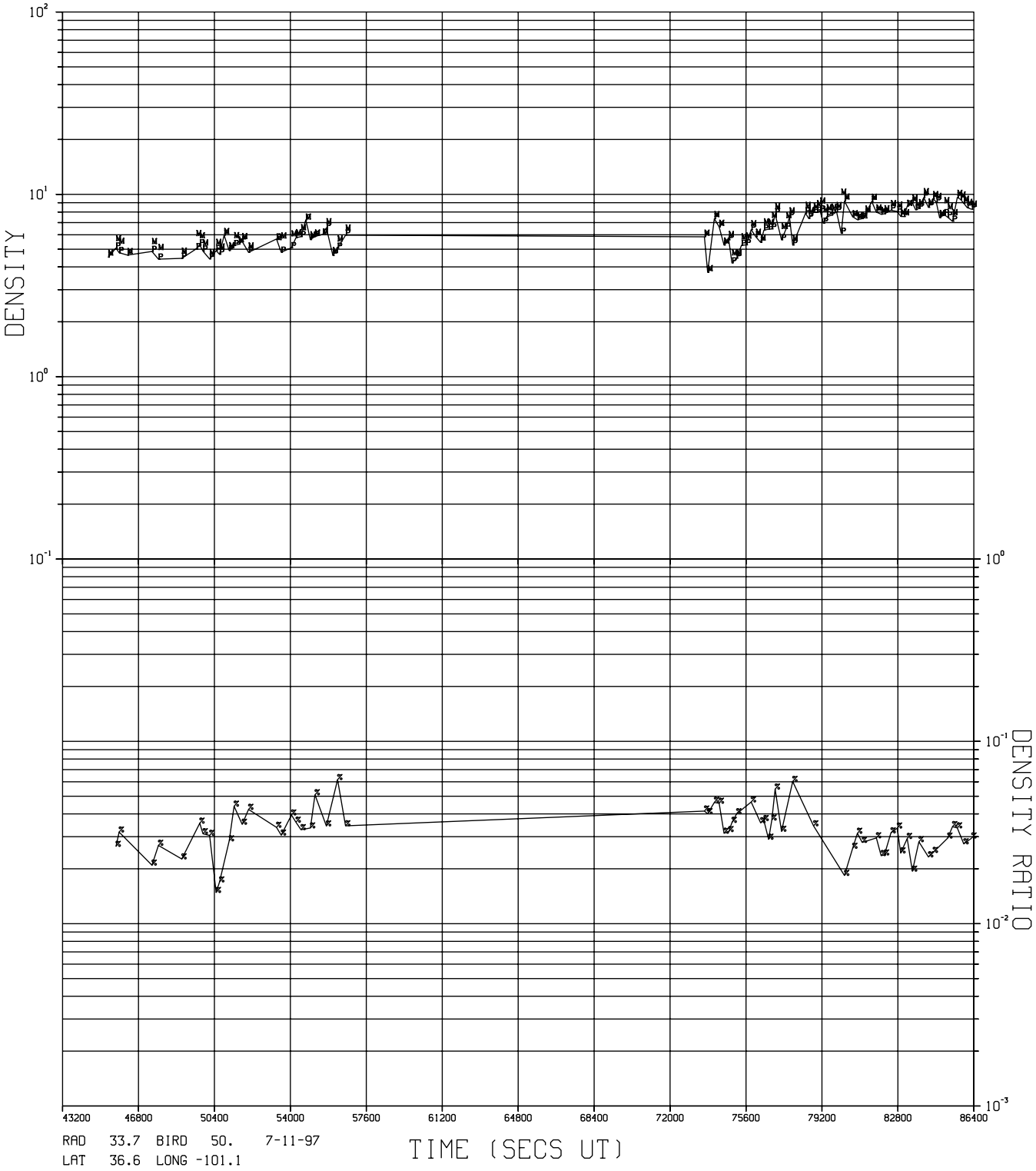

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

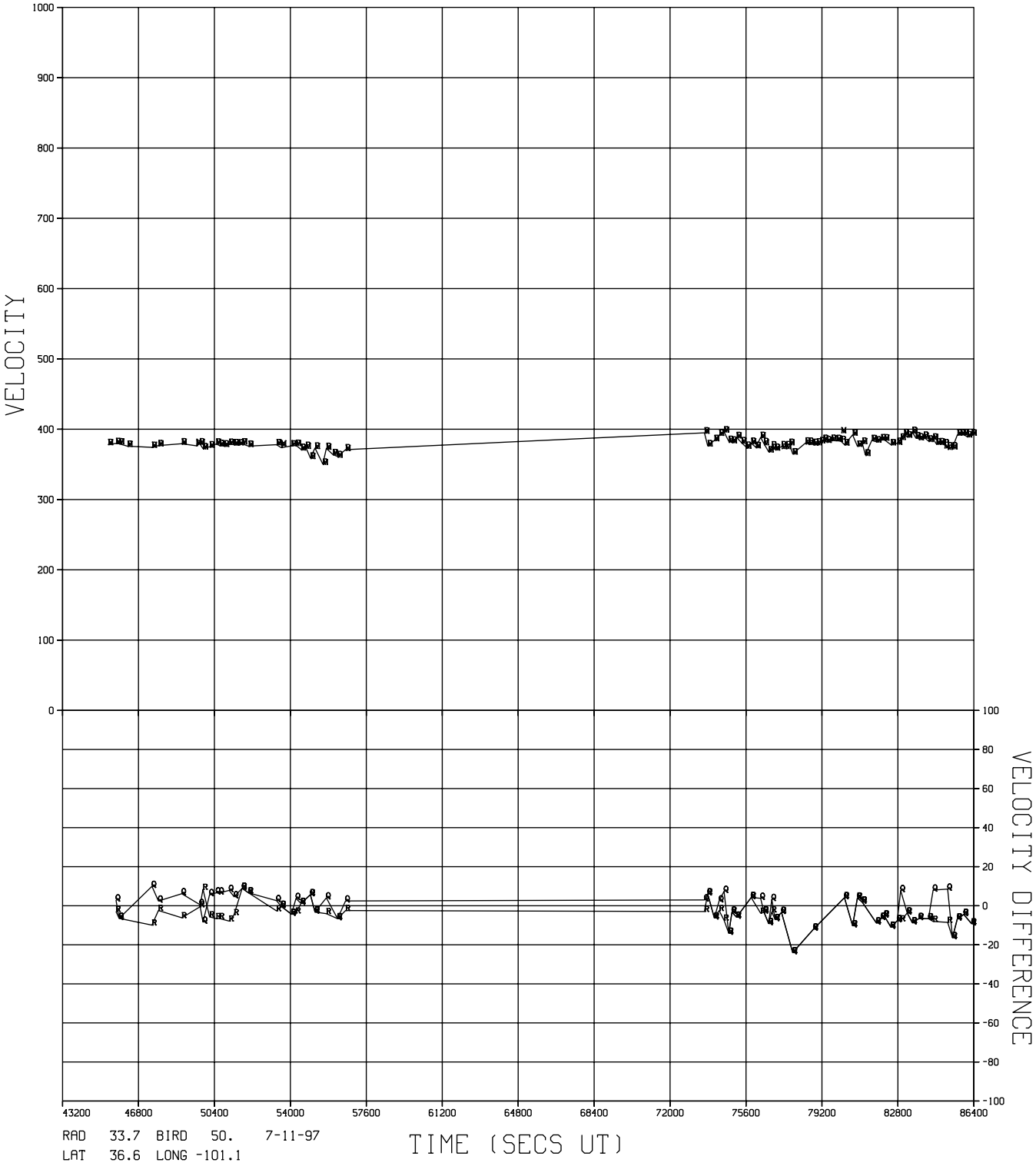

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

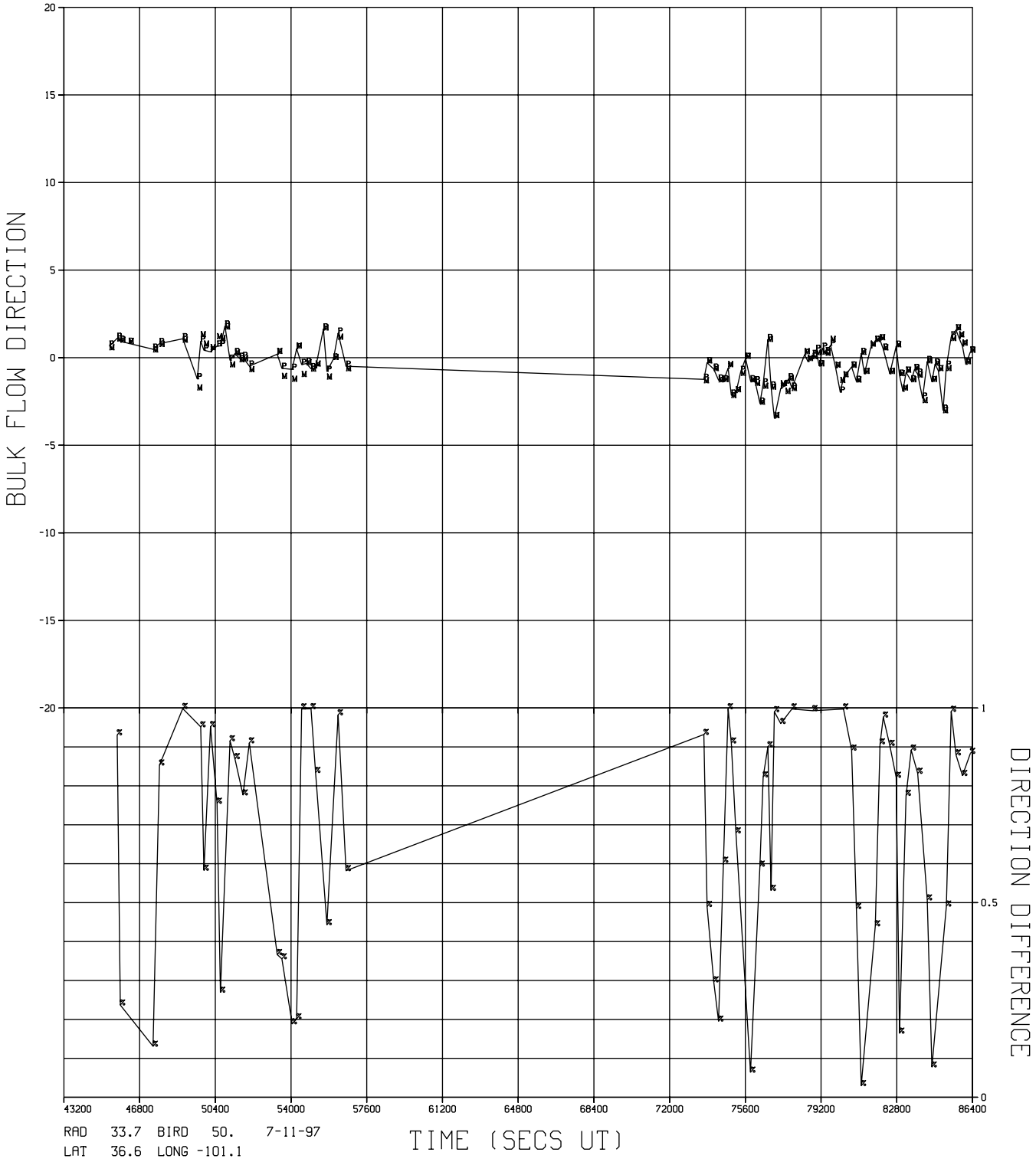

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

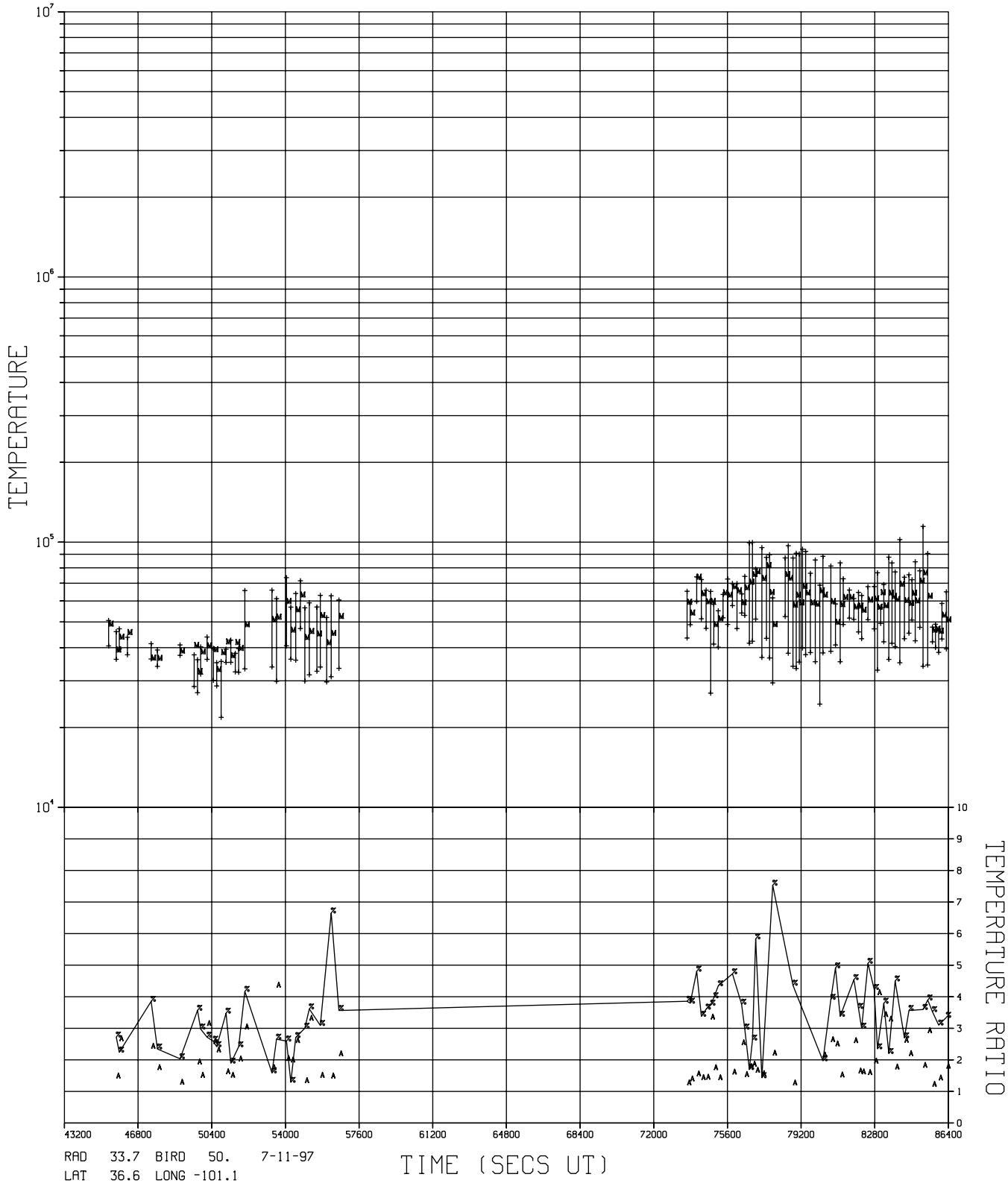

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

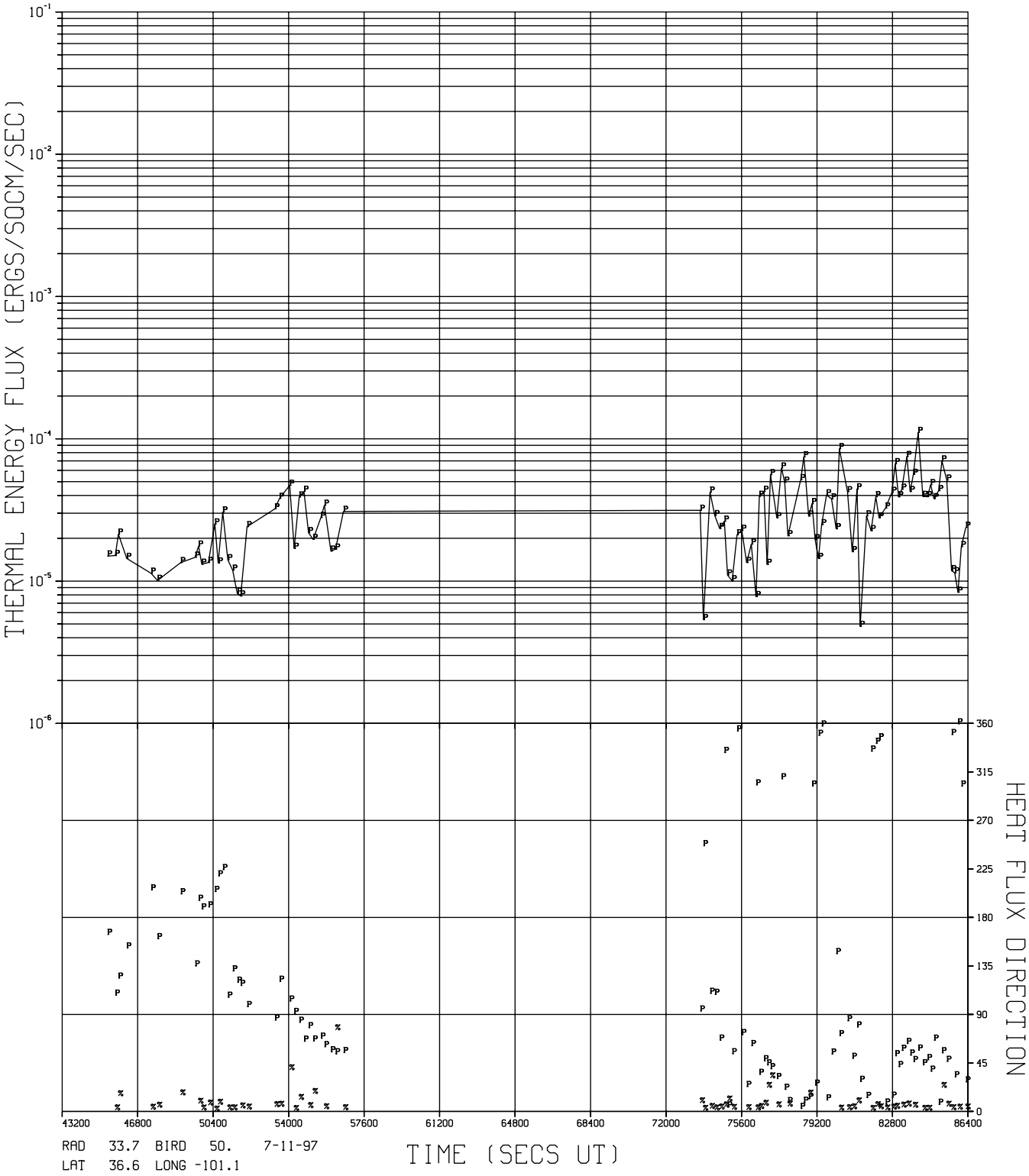

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 33.2 BIRD 50. 7-11-97
LAT 38.6 LONG -118.1

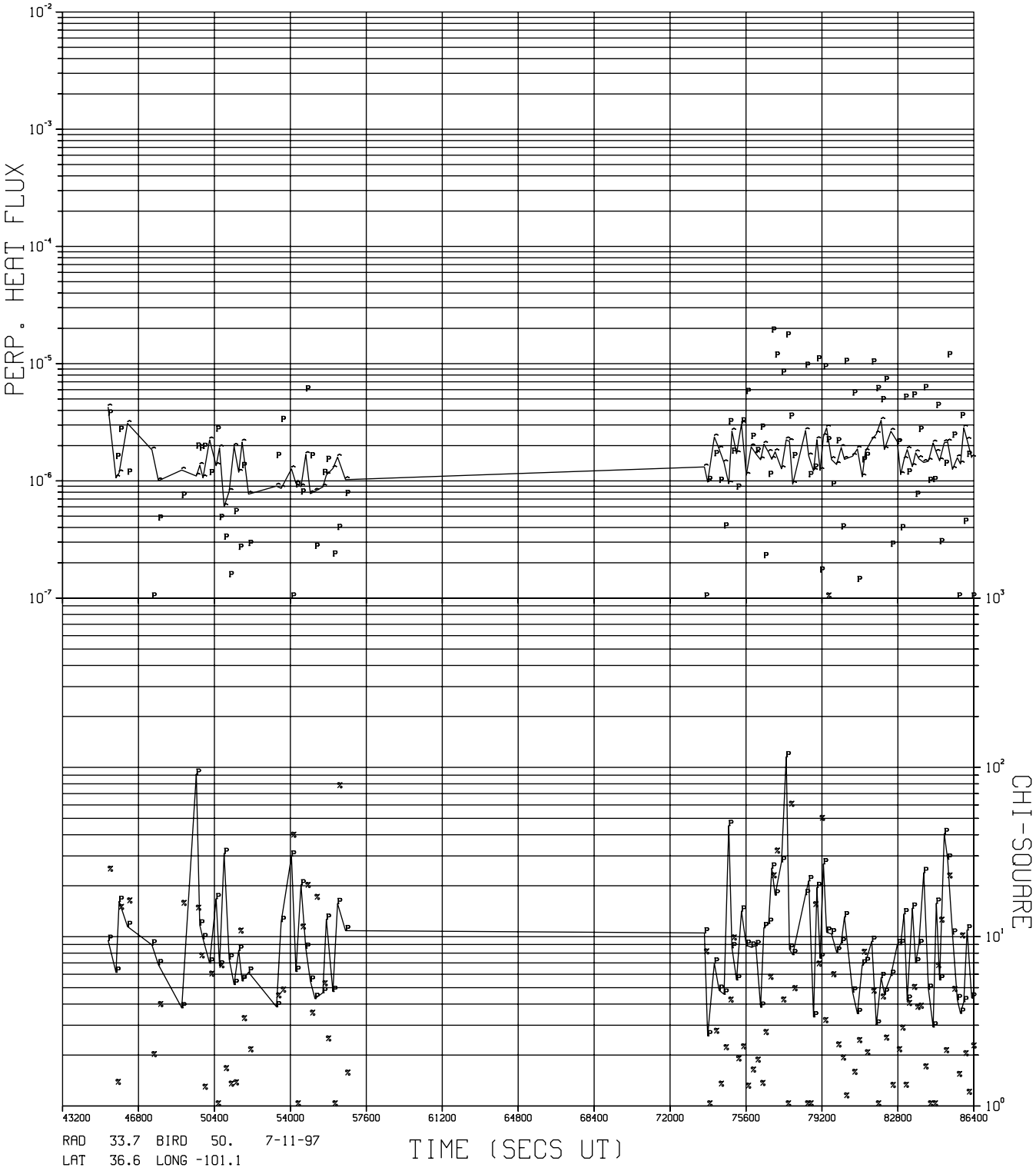

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

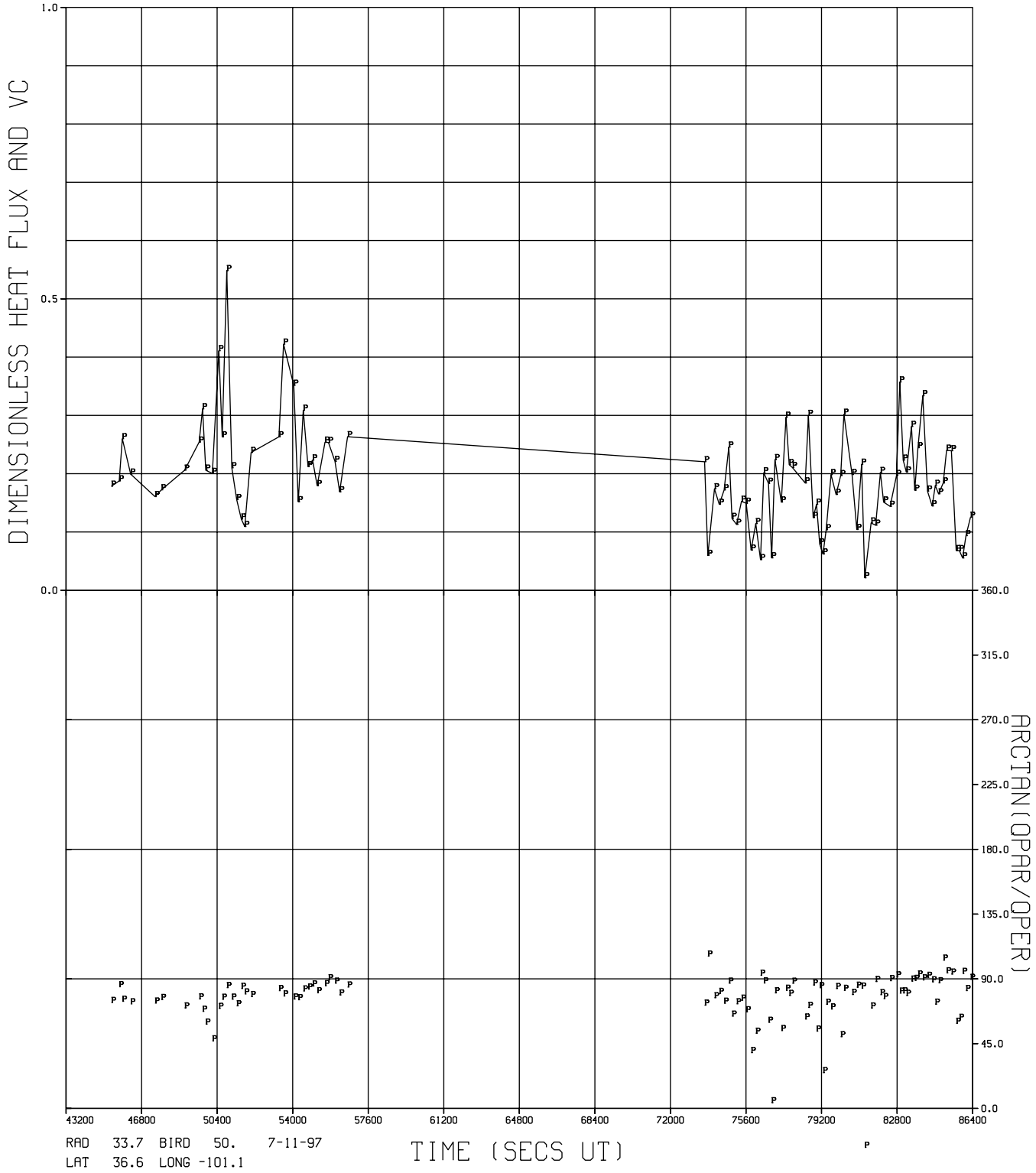

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

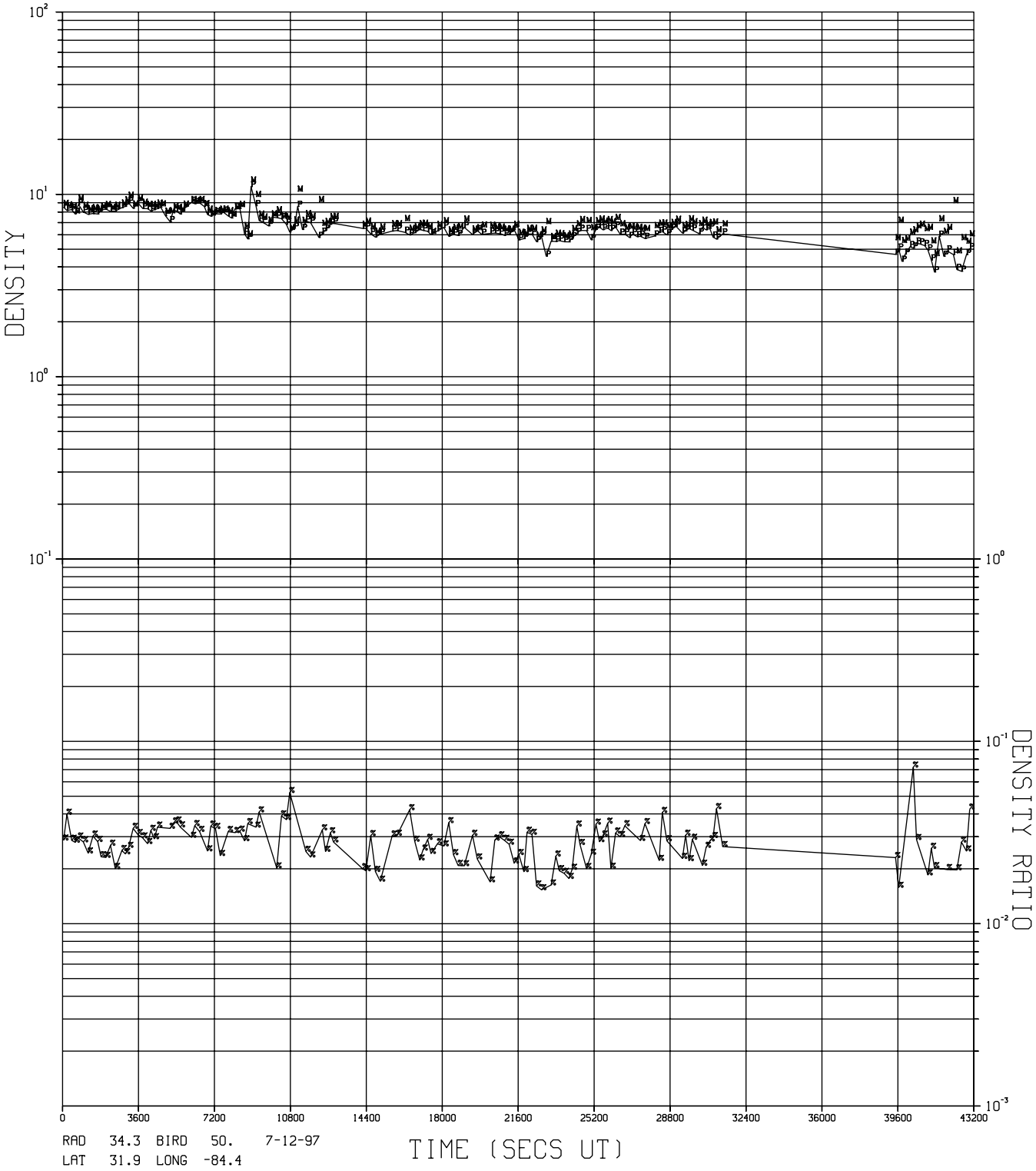

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

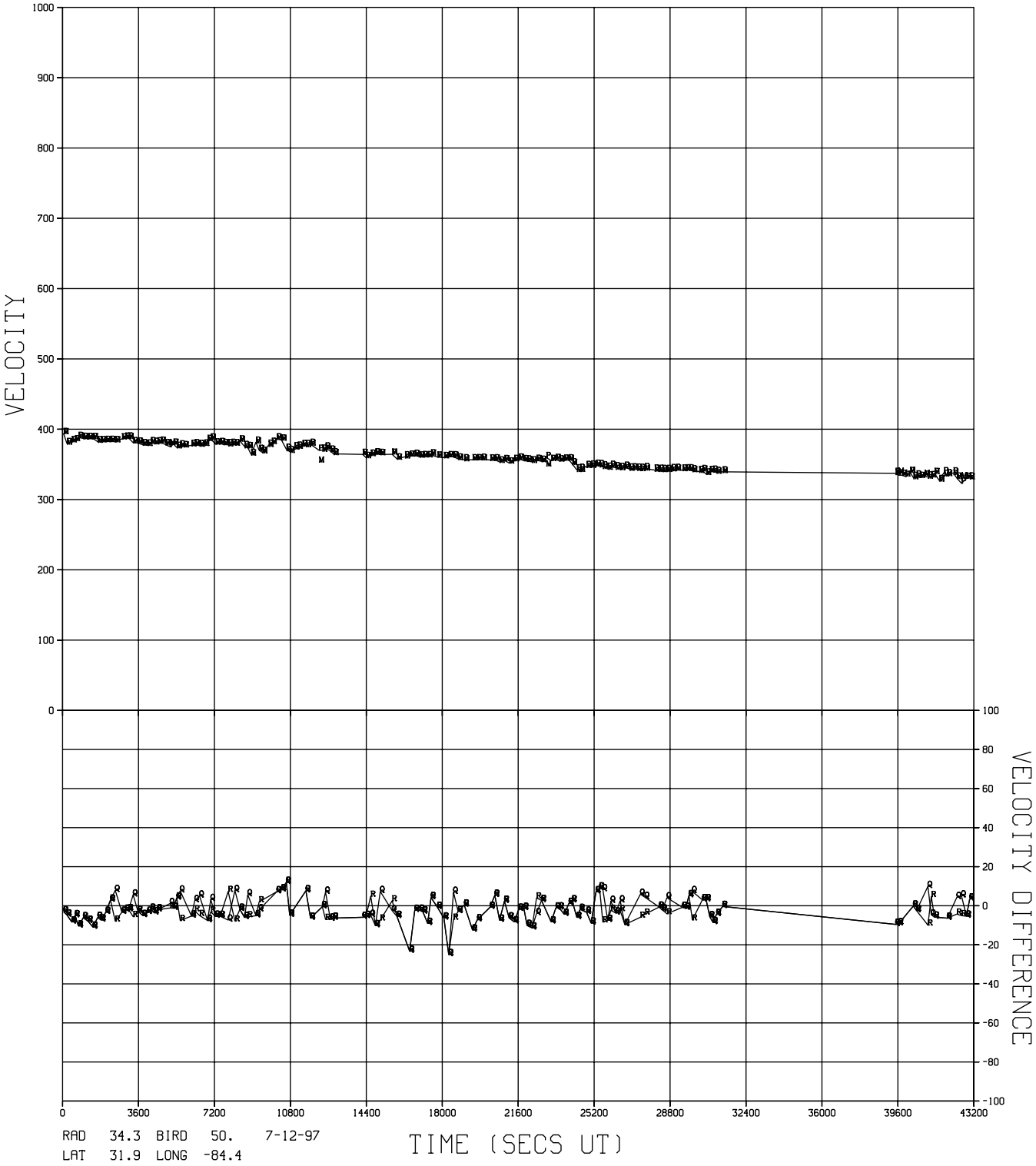

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

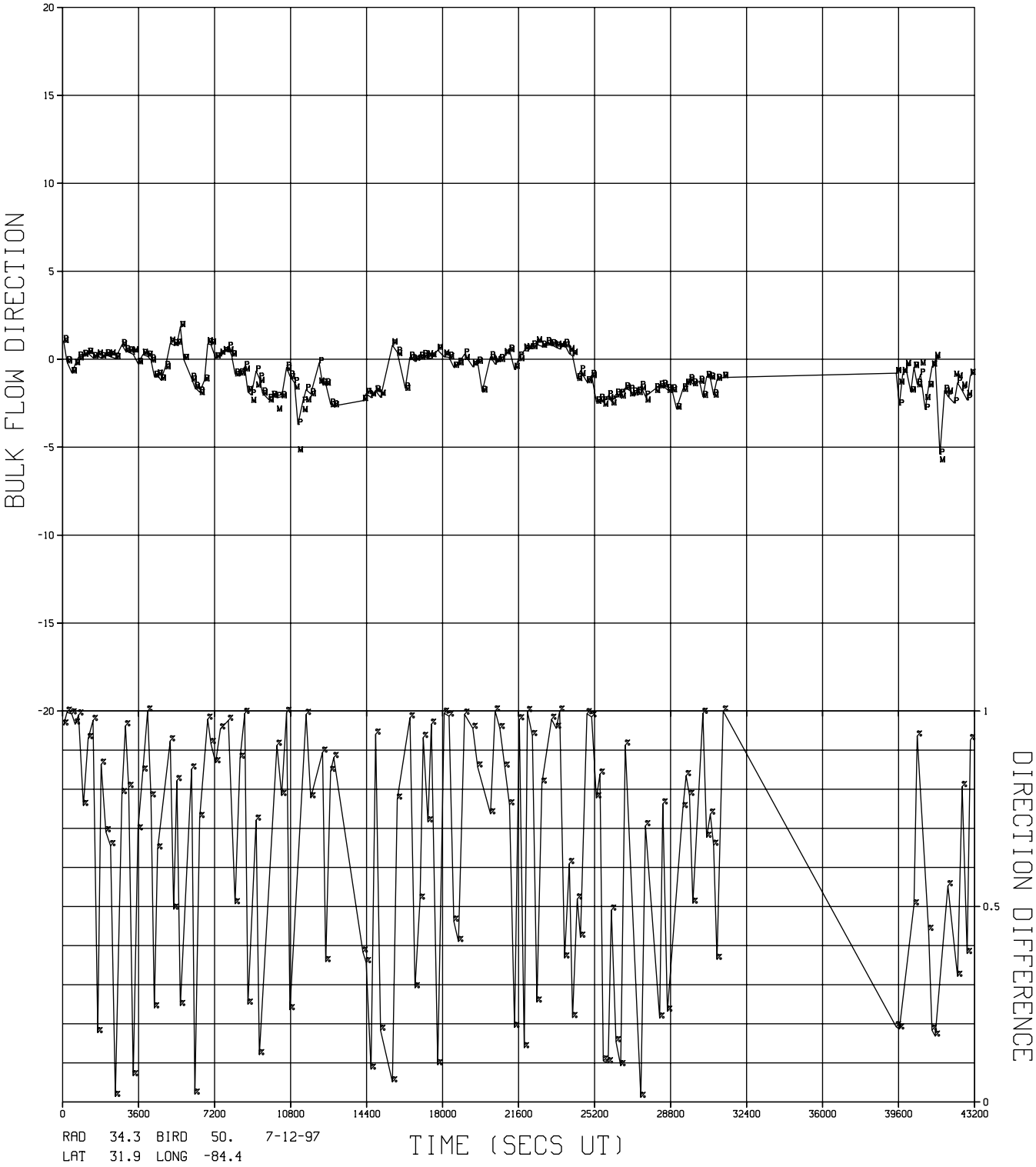

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

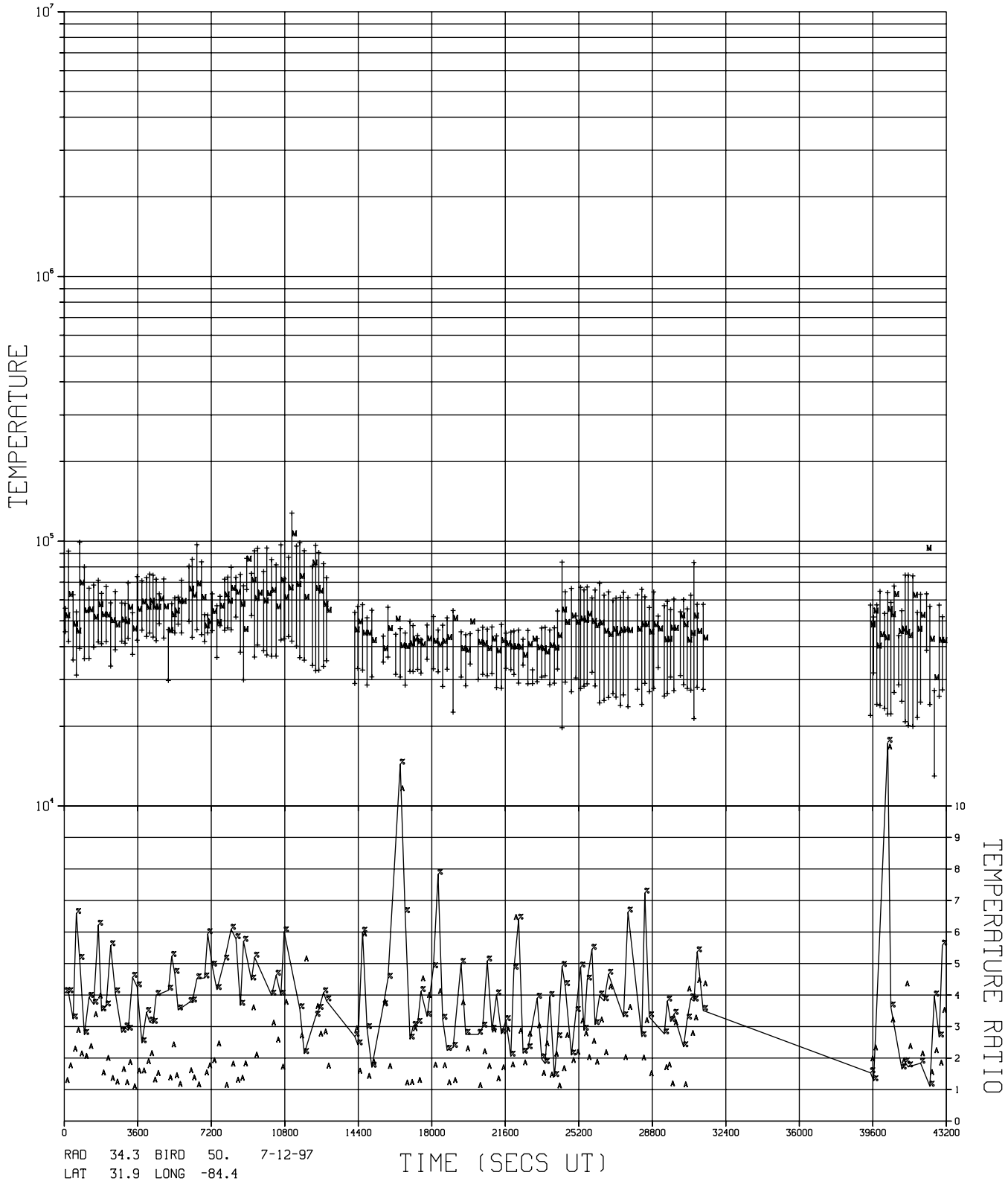

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

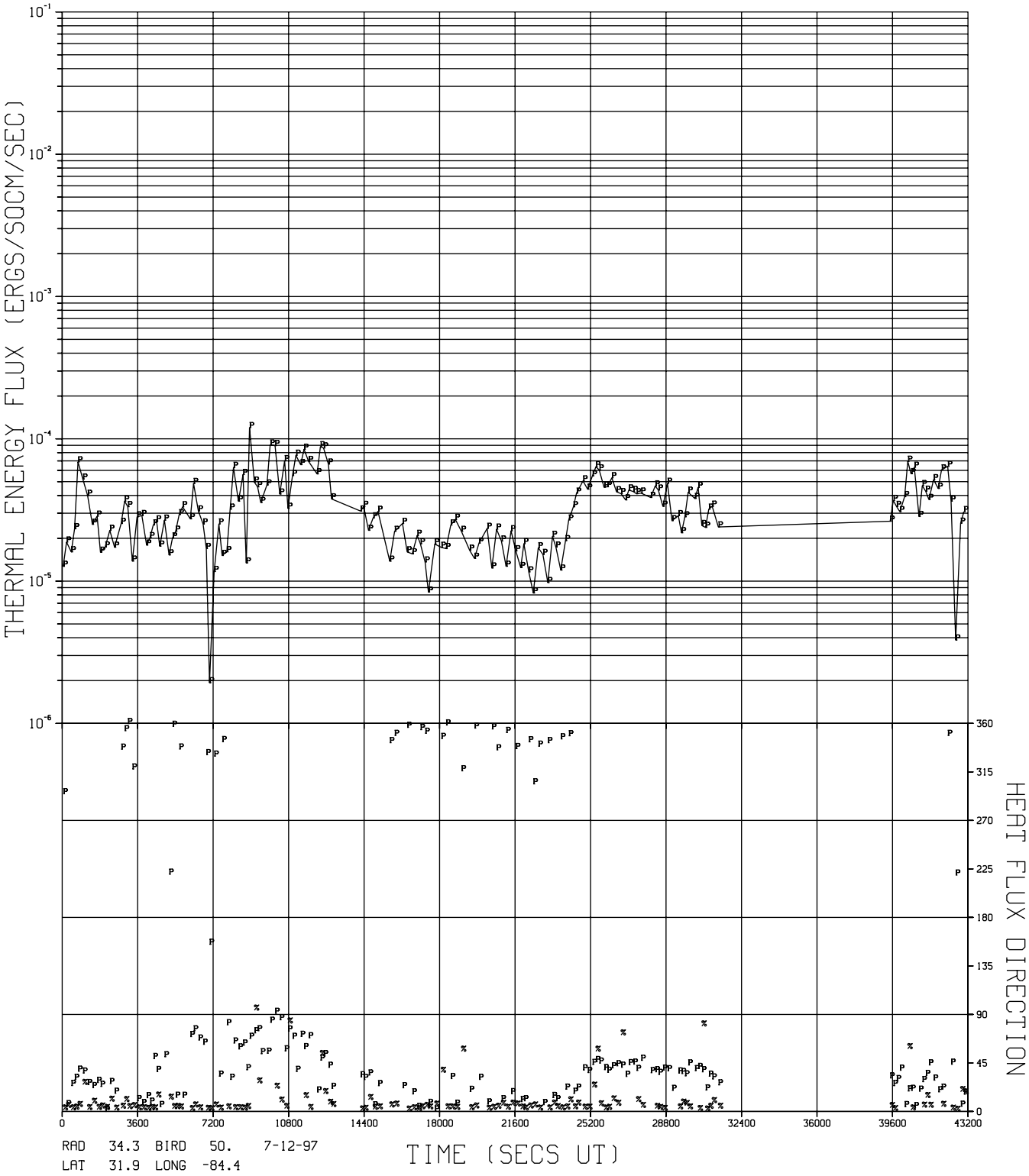

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 33.7 BIRD 50. 7-11-97
LAT 36.6 LONG -101.1

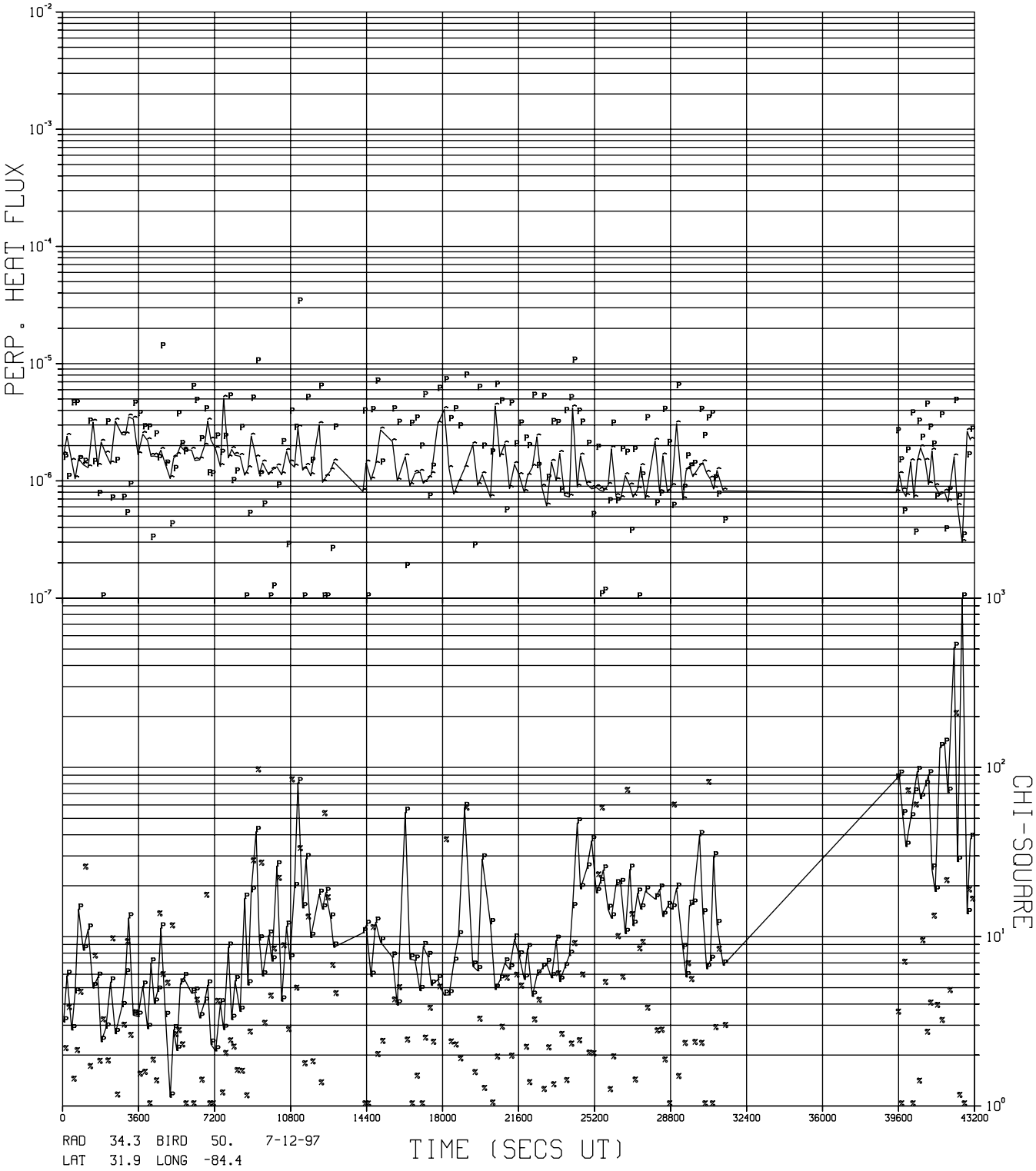

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

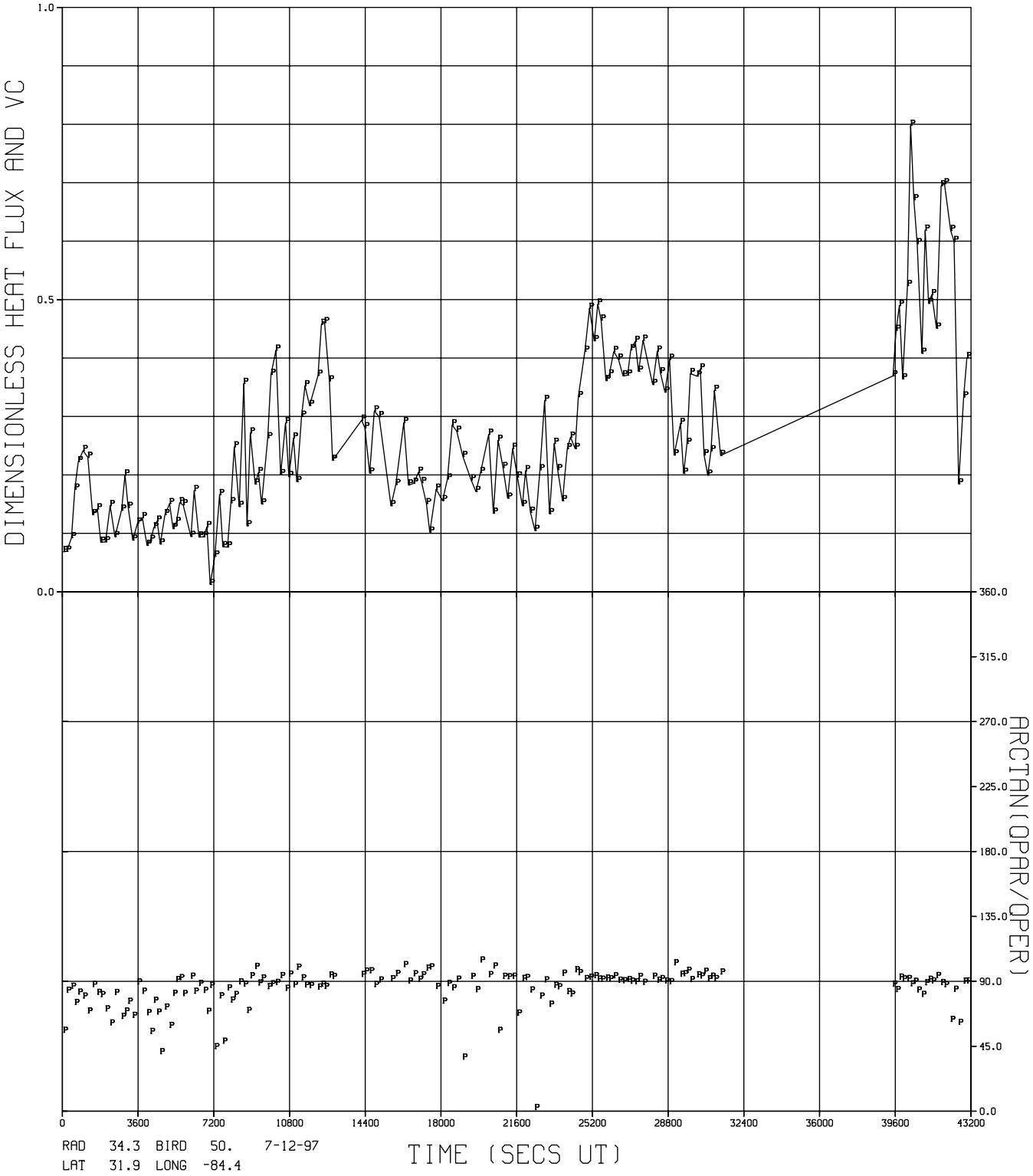

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

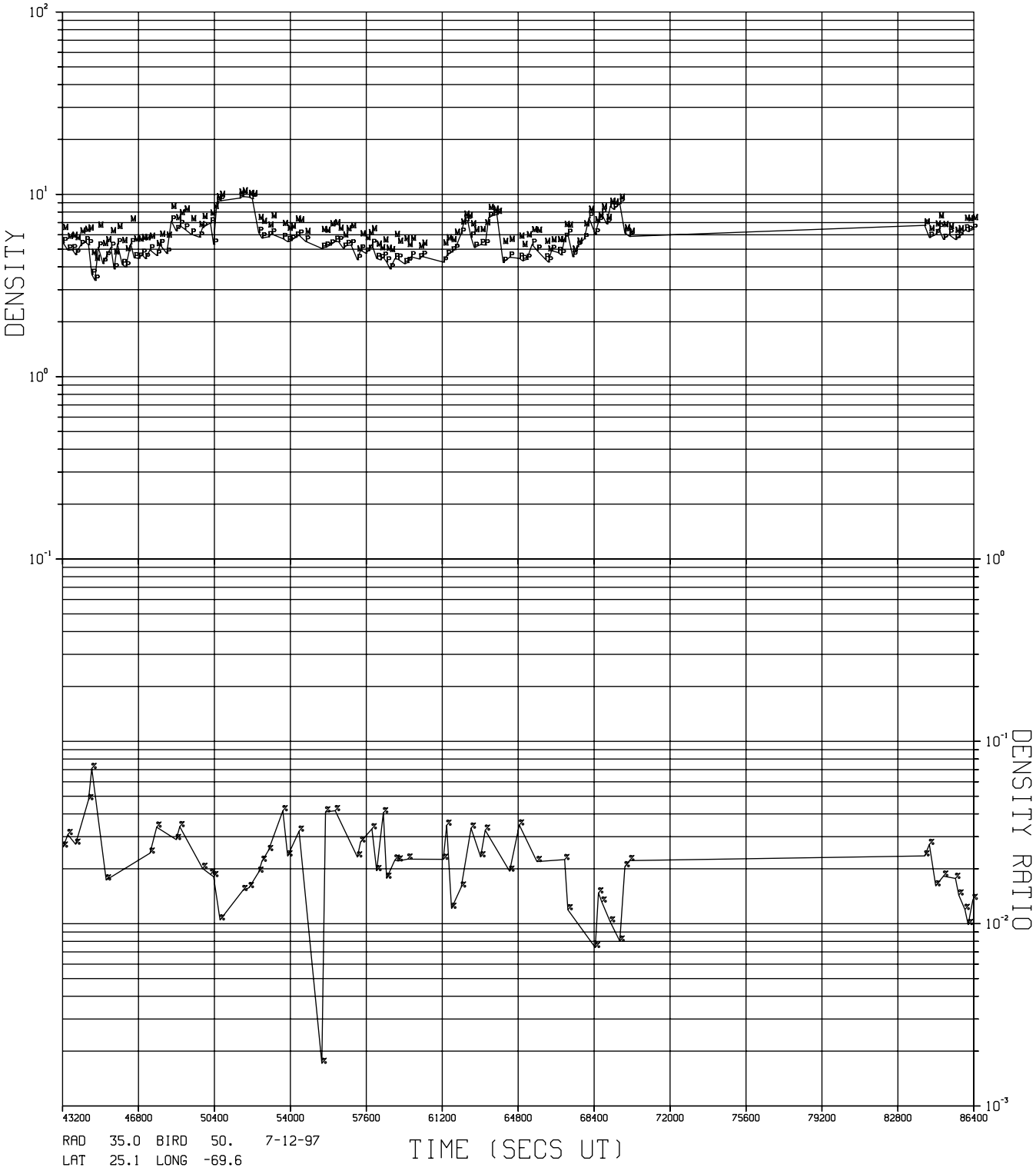

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

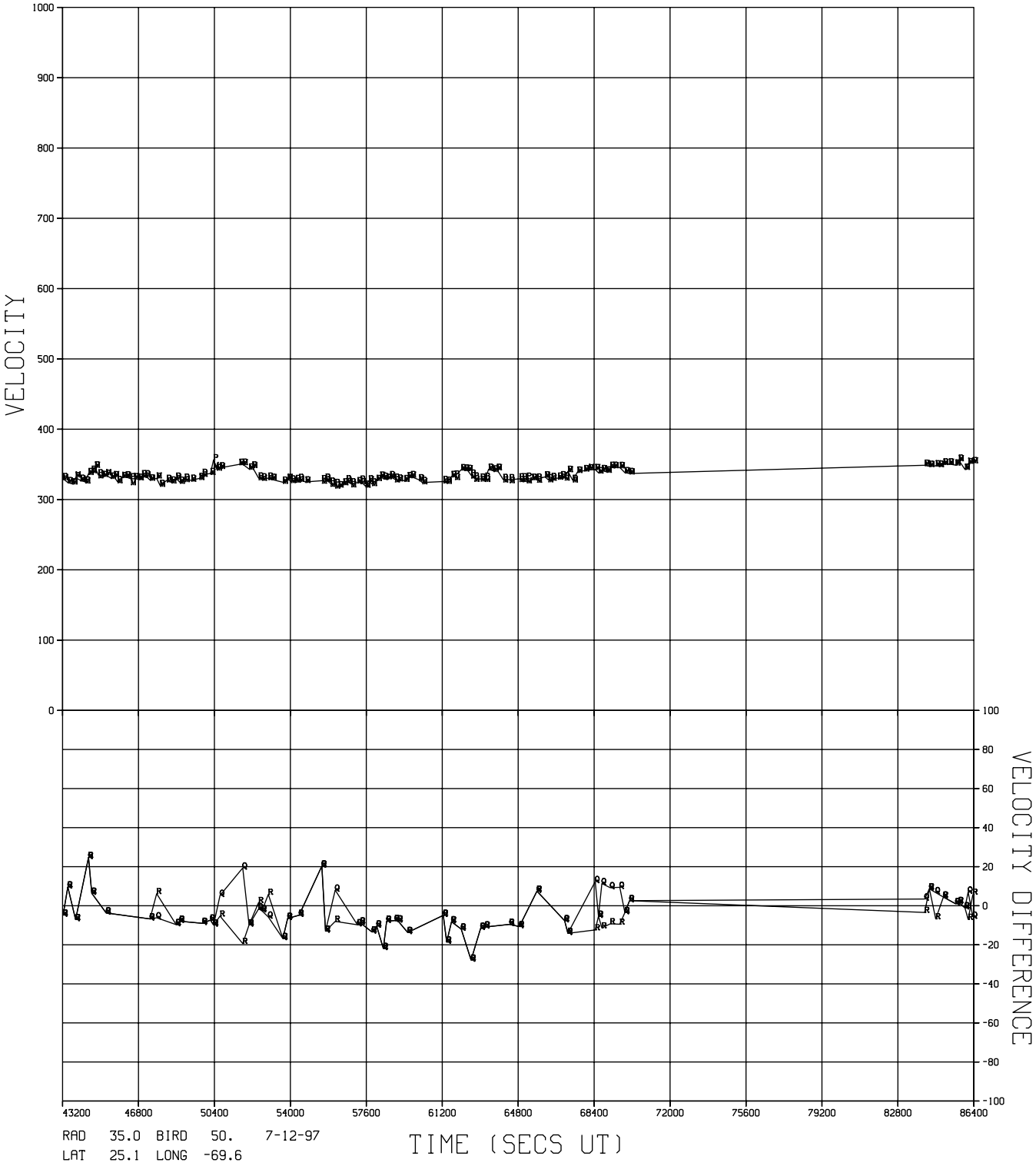

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

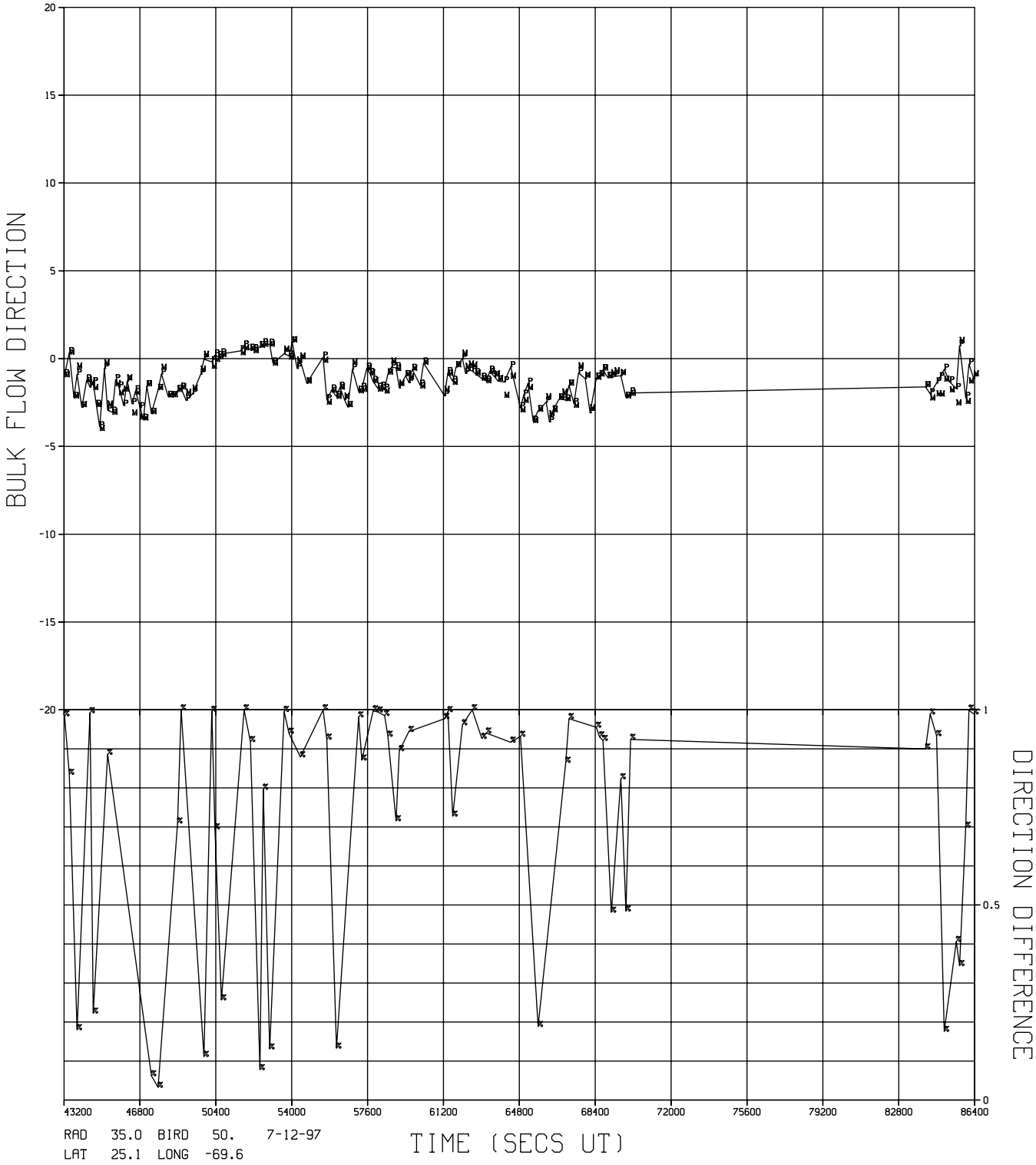

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

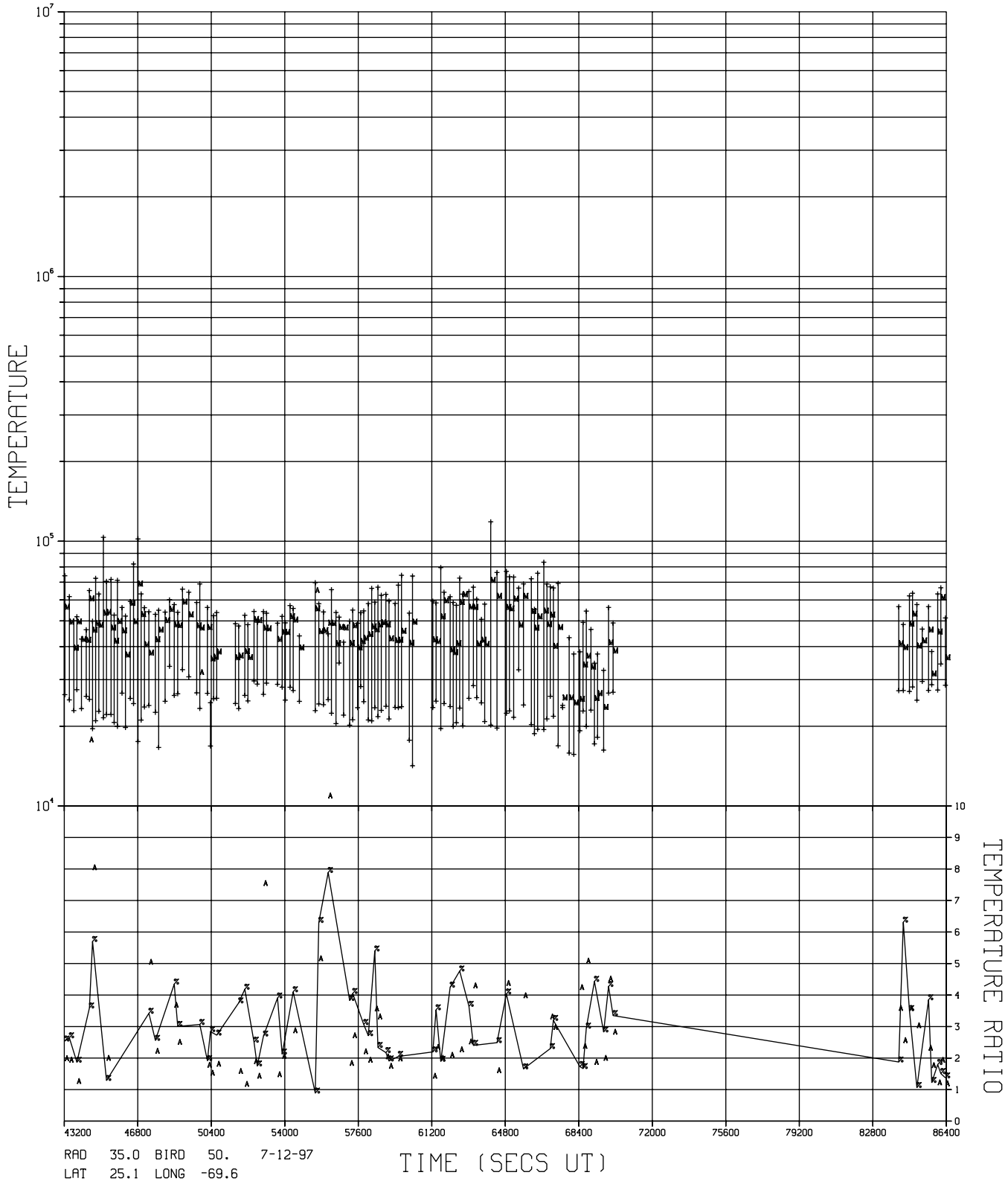

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

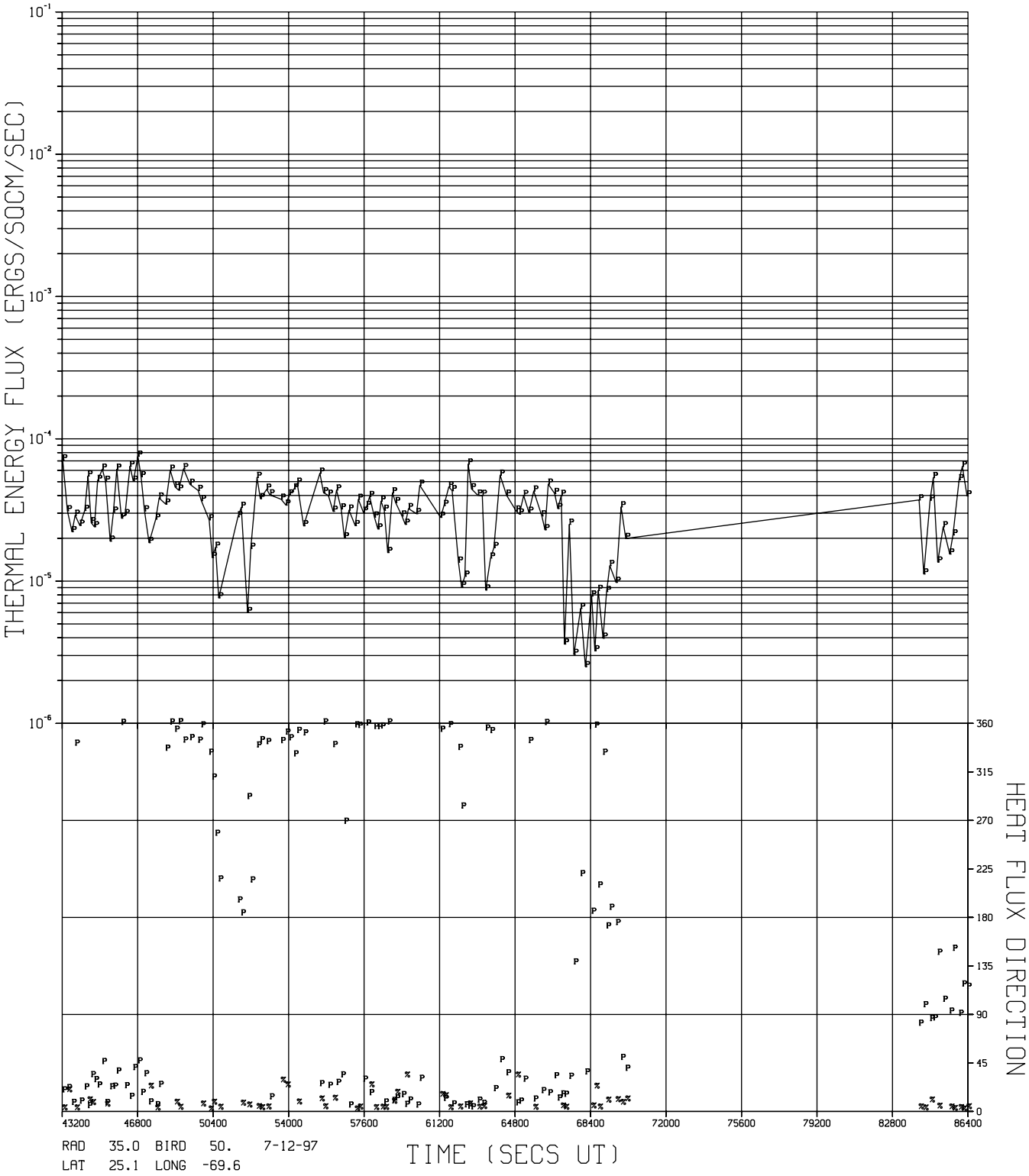

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 34.3 BIRD 50. 7-12-97
LAT 31.9 LONG -84.4

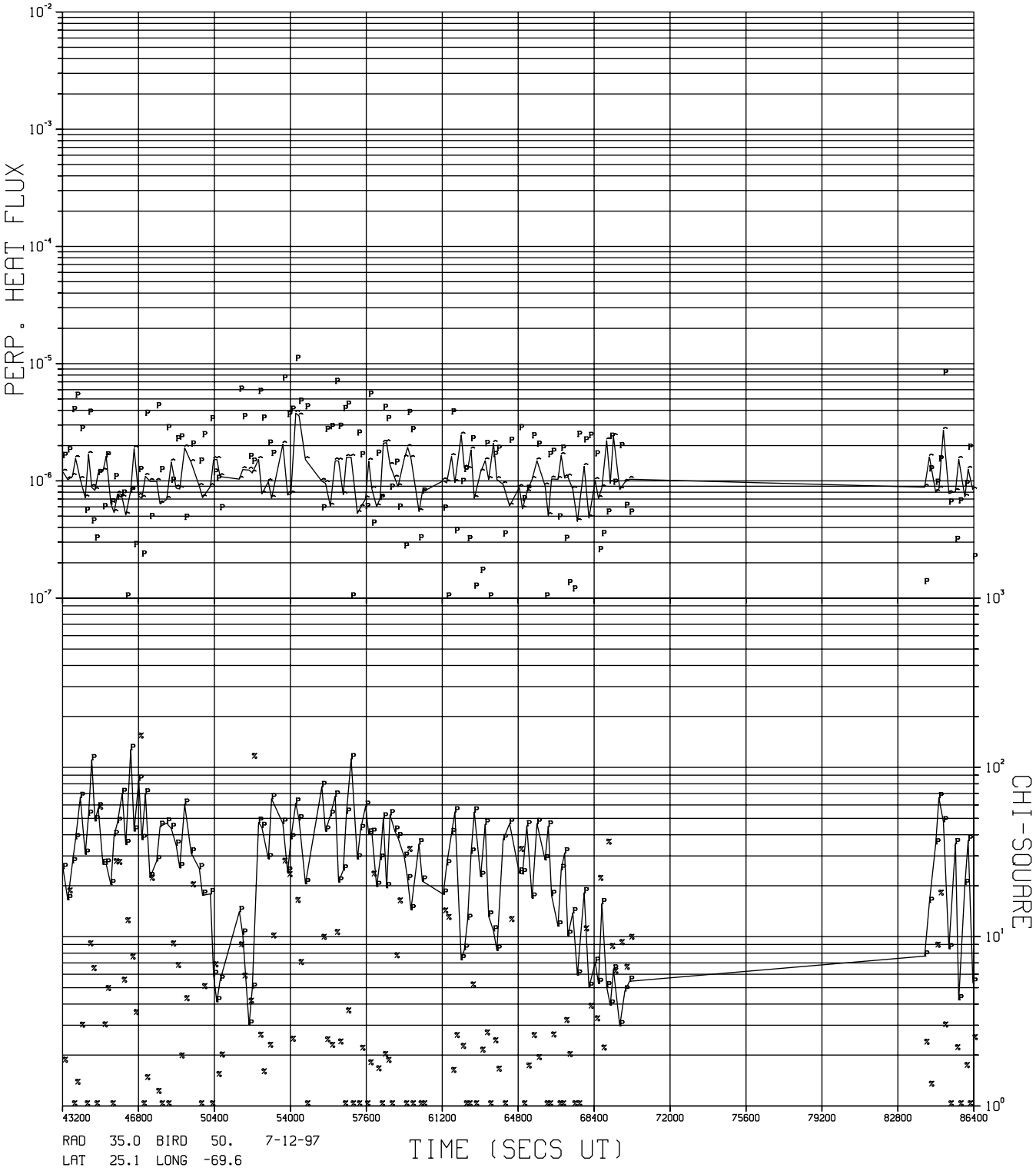

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

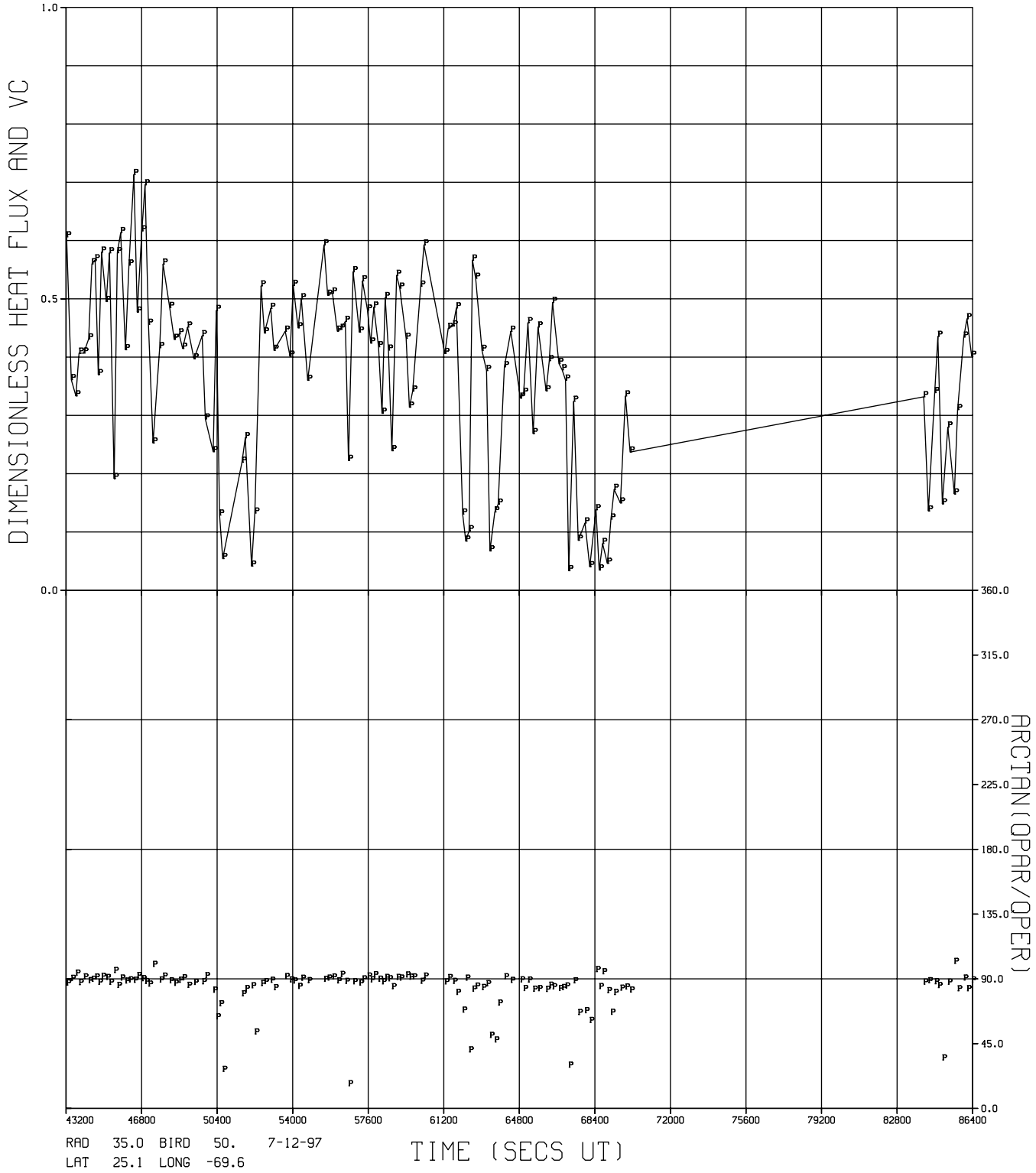

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

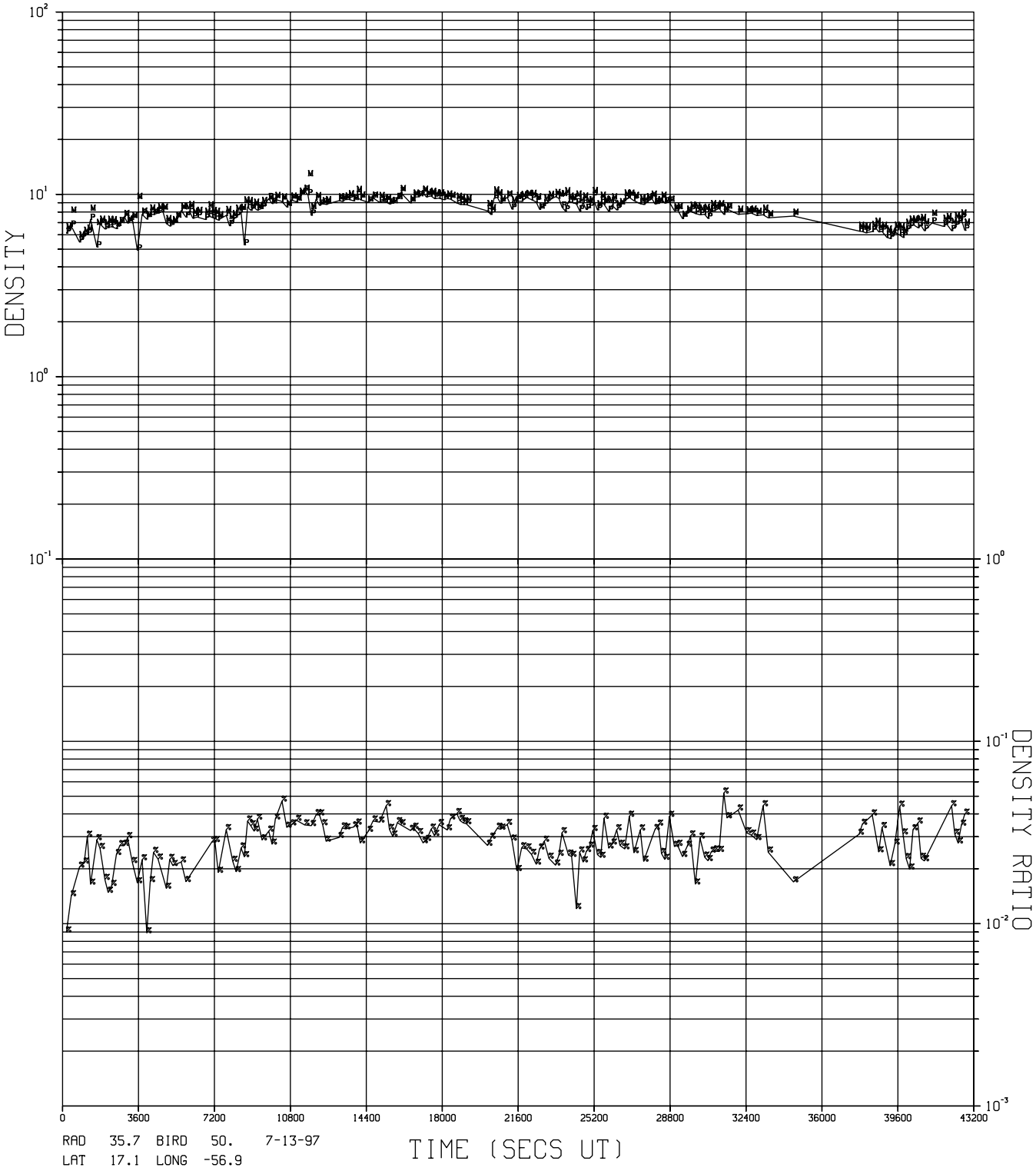

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

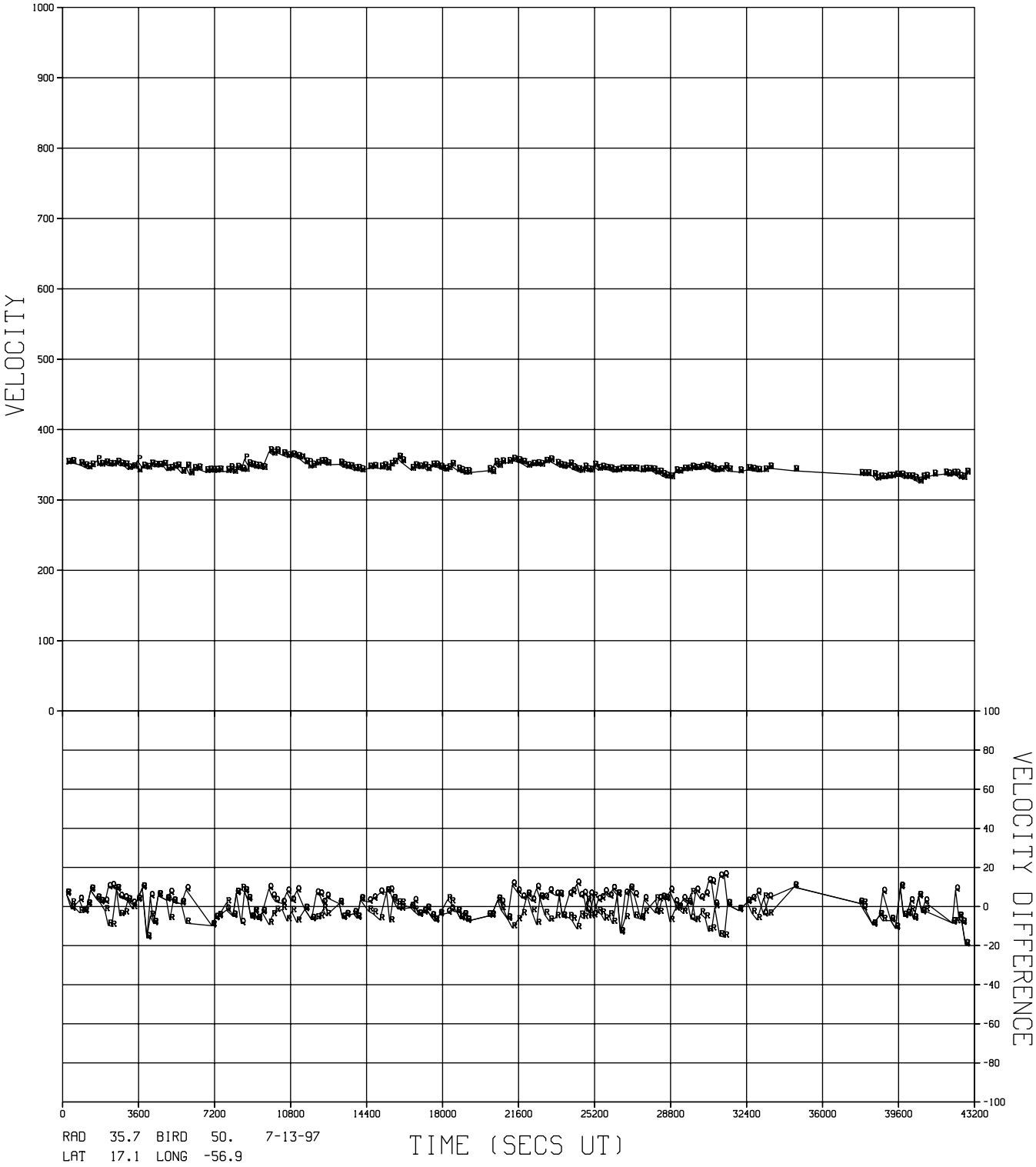

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

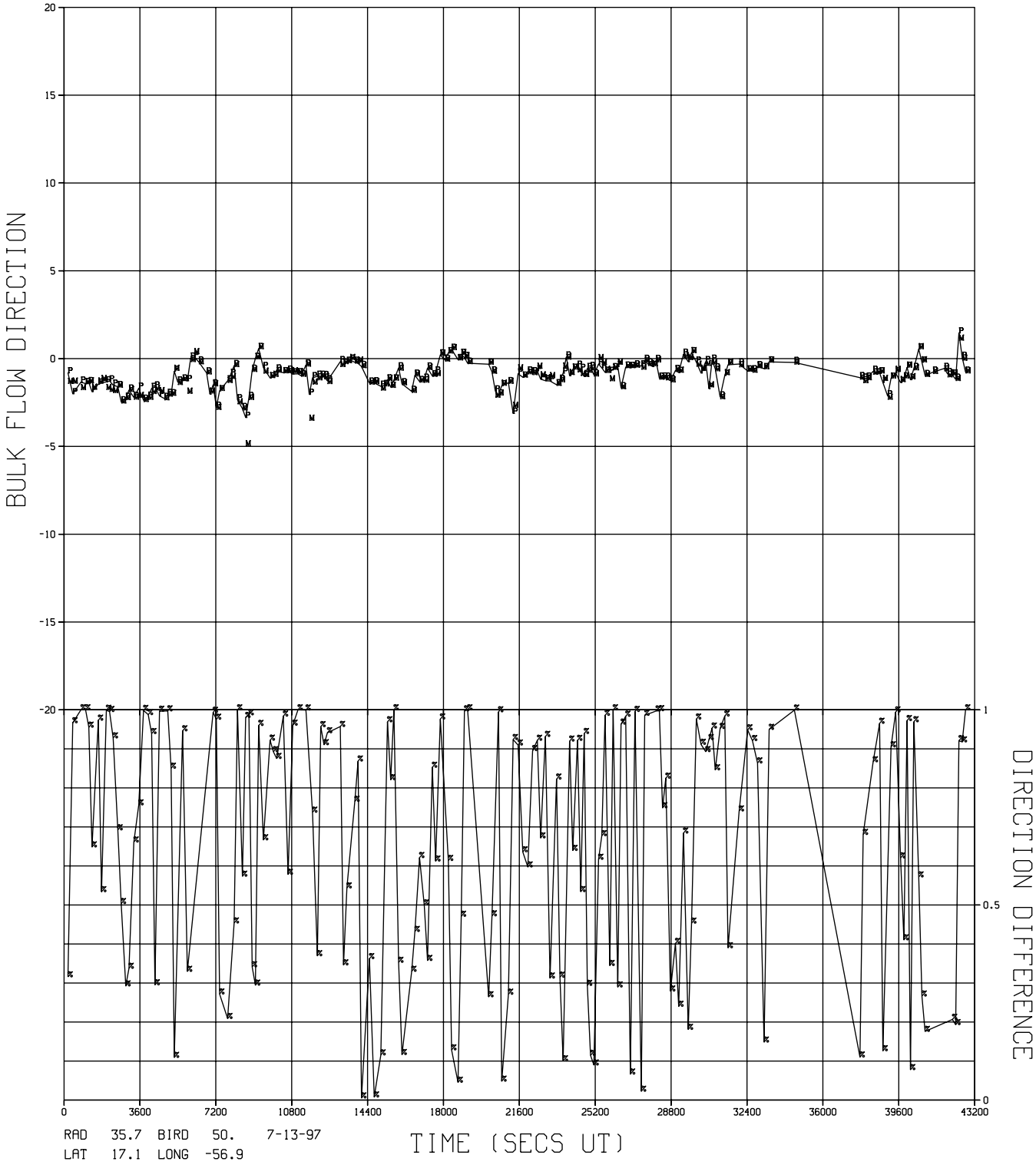

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

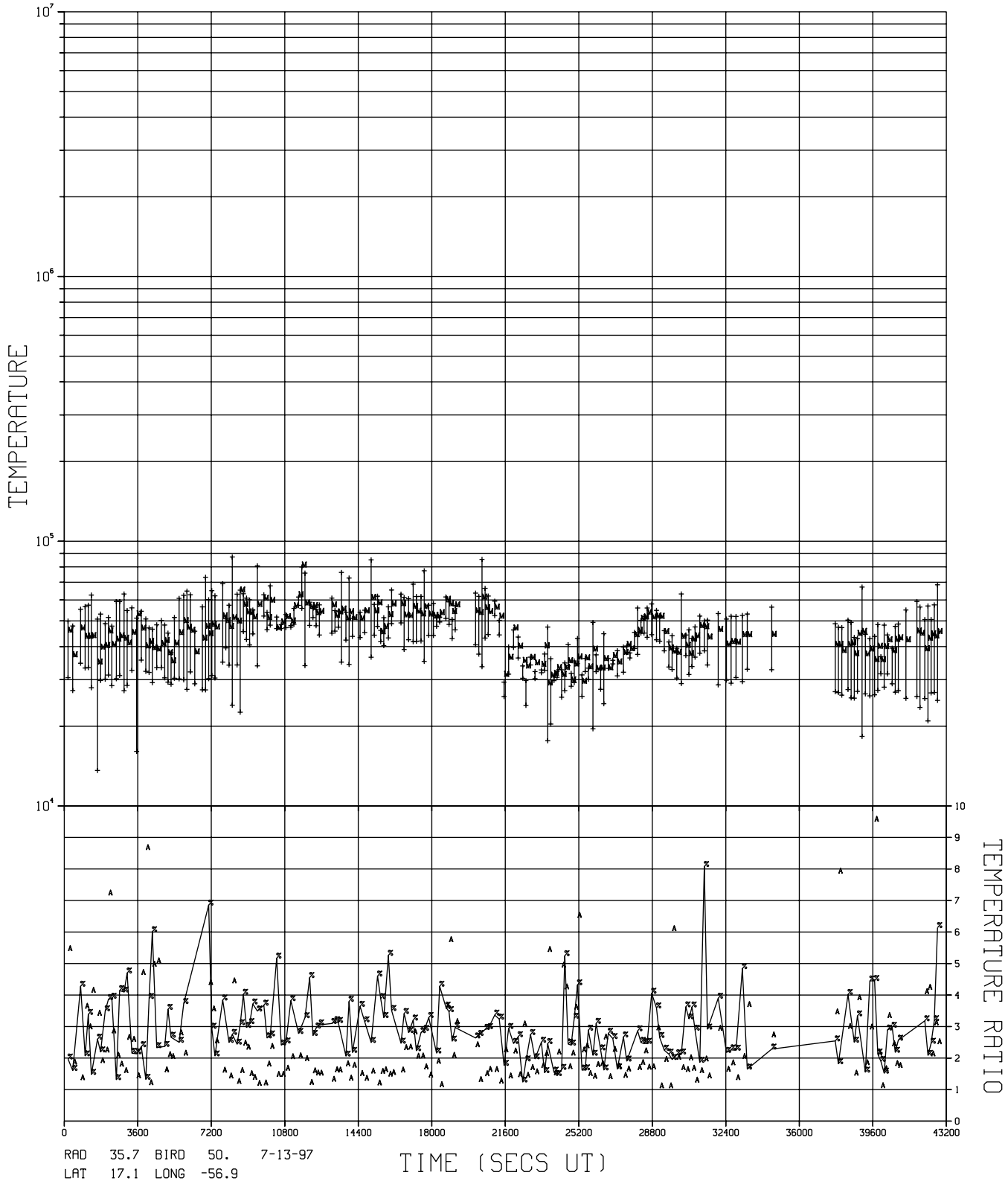

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

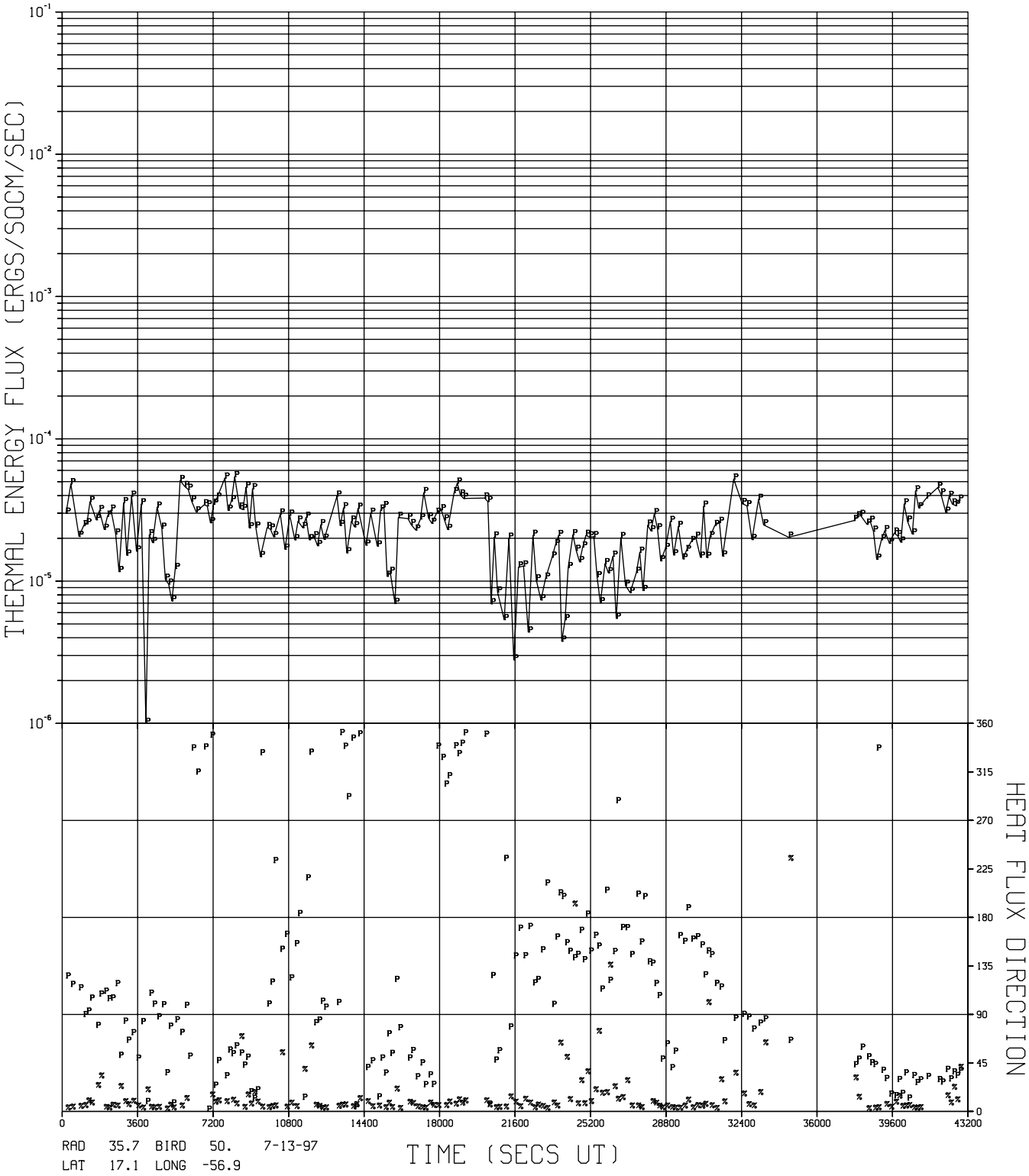

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.0 BIRD 50. 7-12-97
LAT 25.1 LONG -69.6

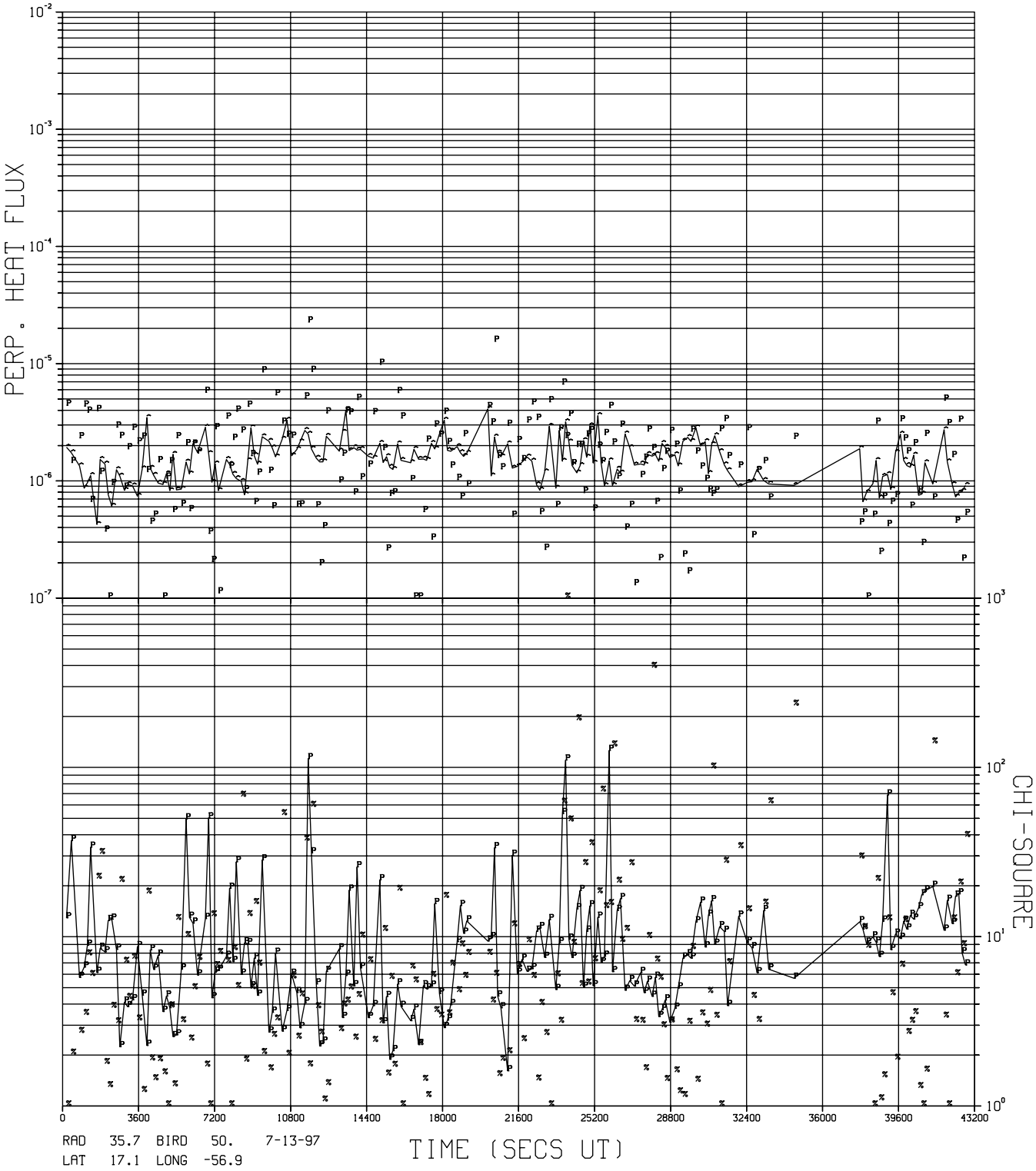

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

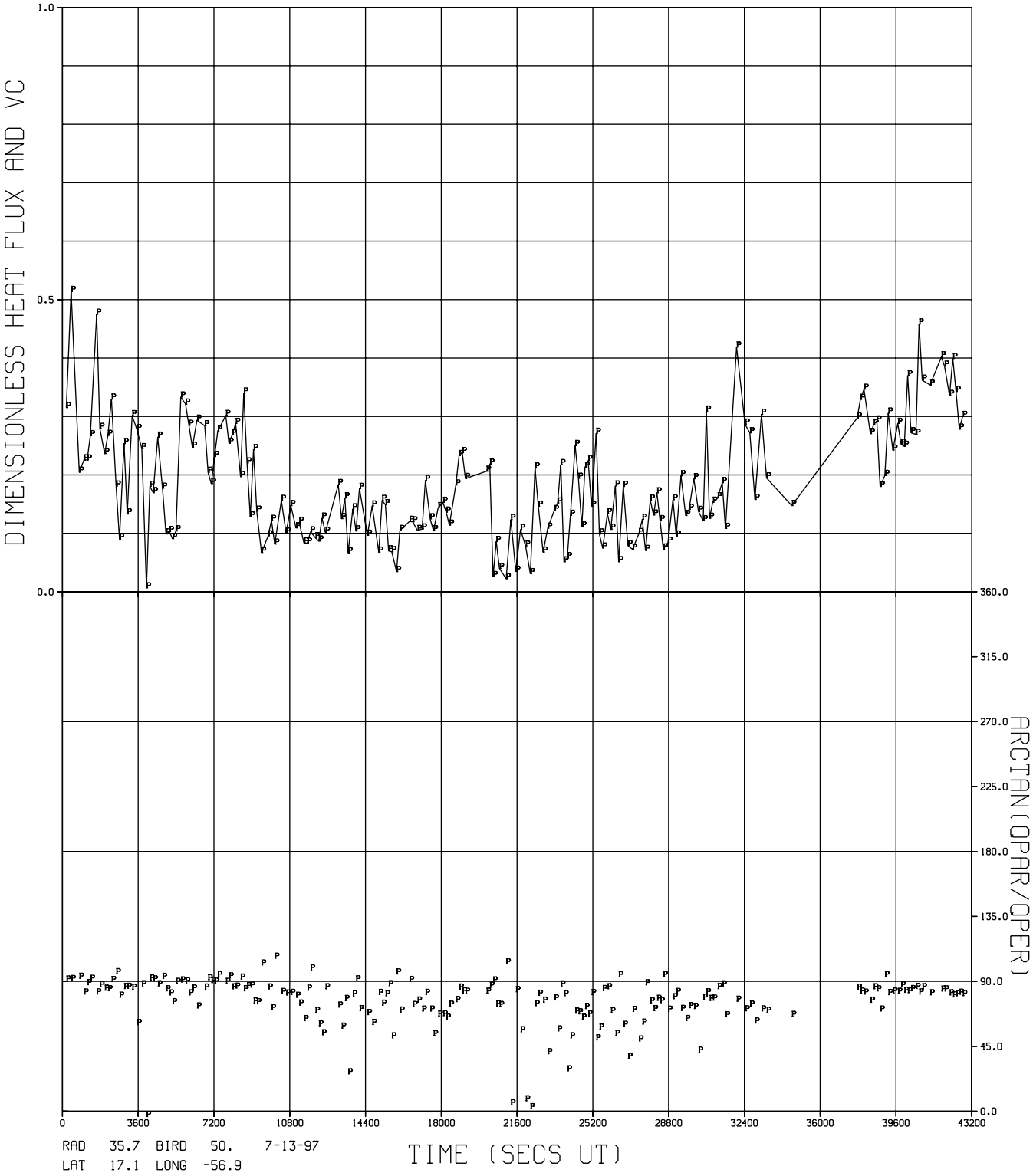

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9
TIME (SECS UT)


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 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

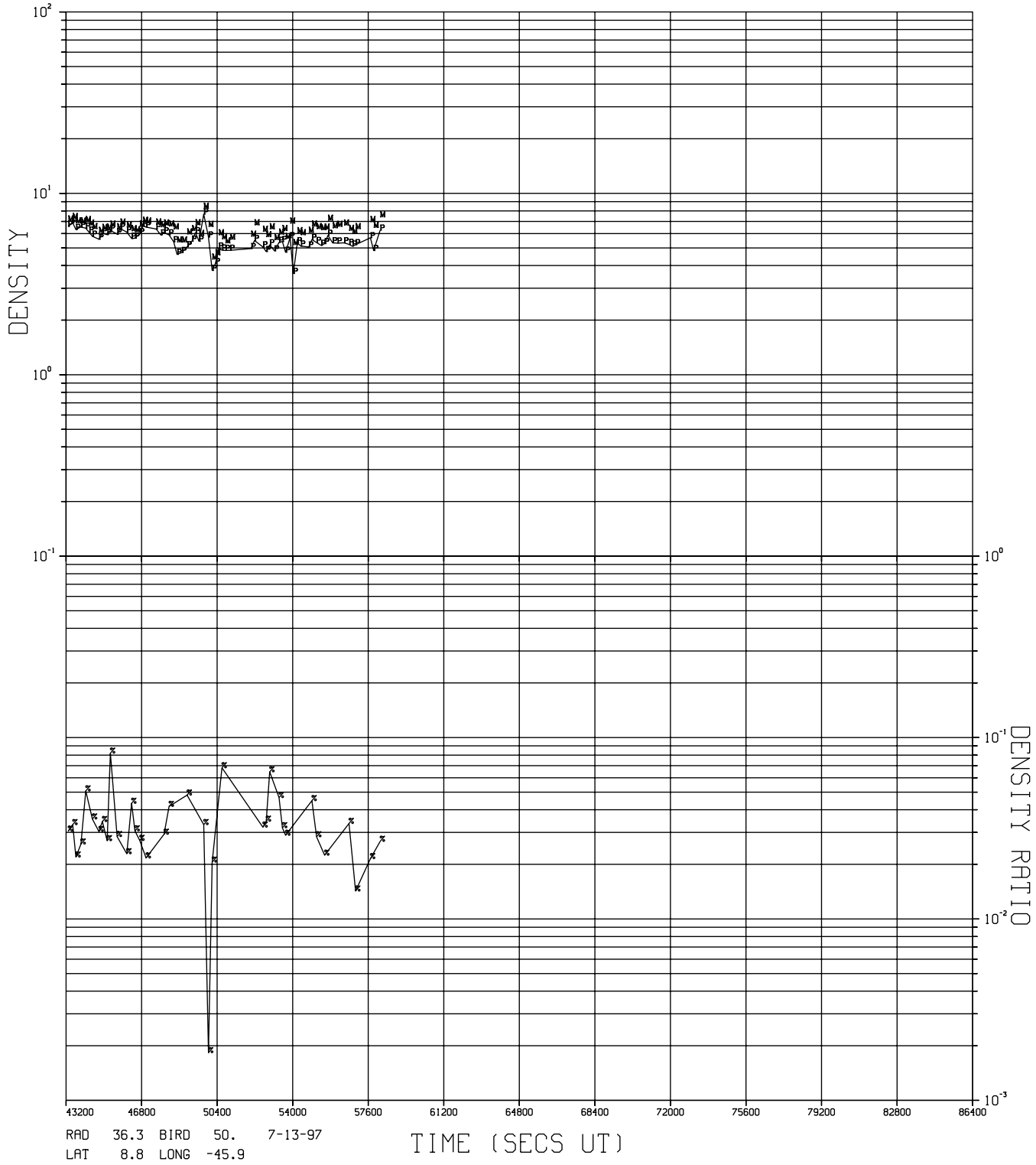

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

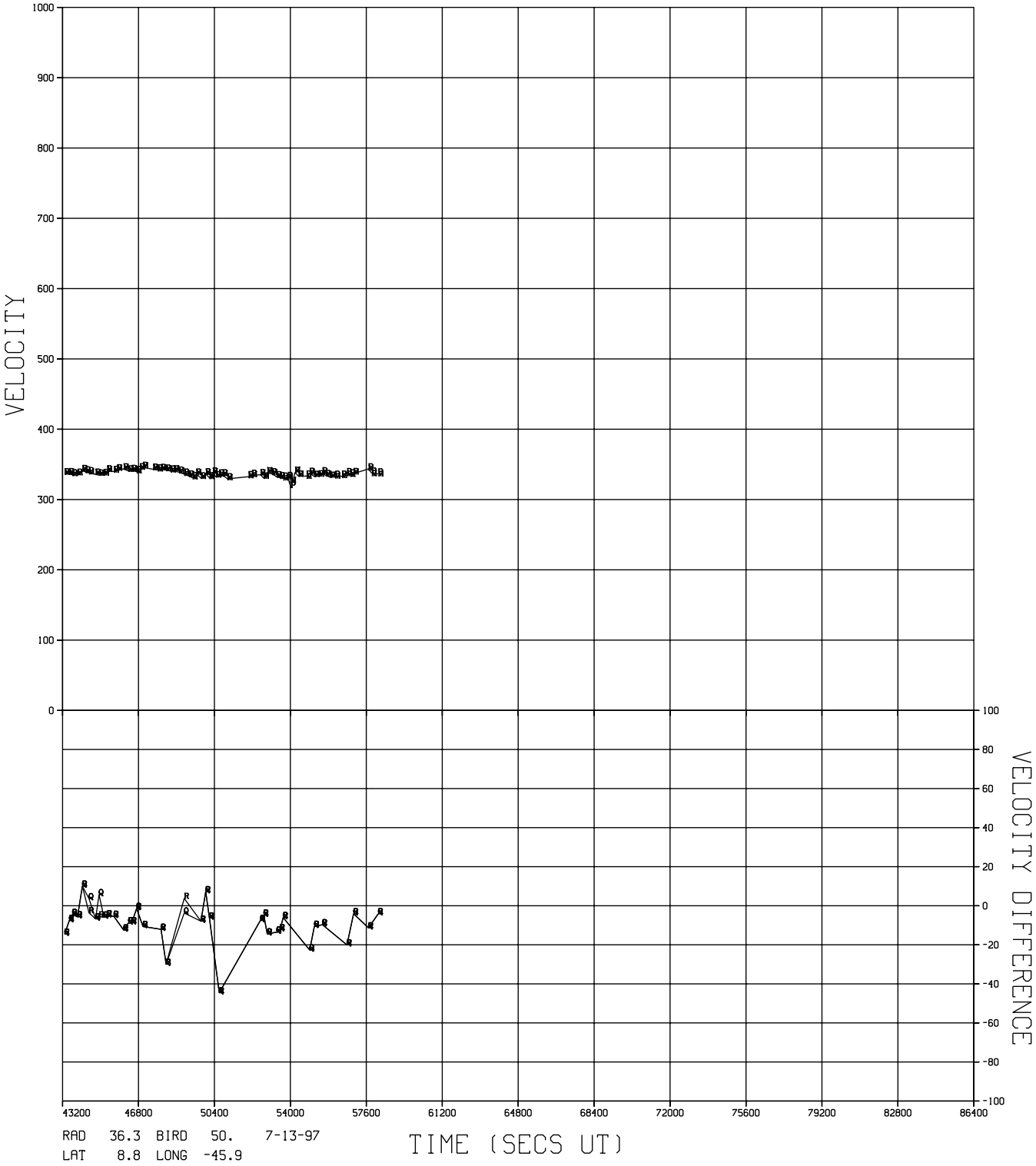

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

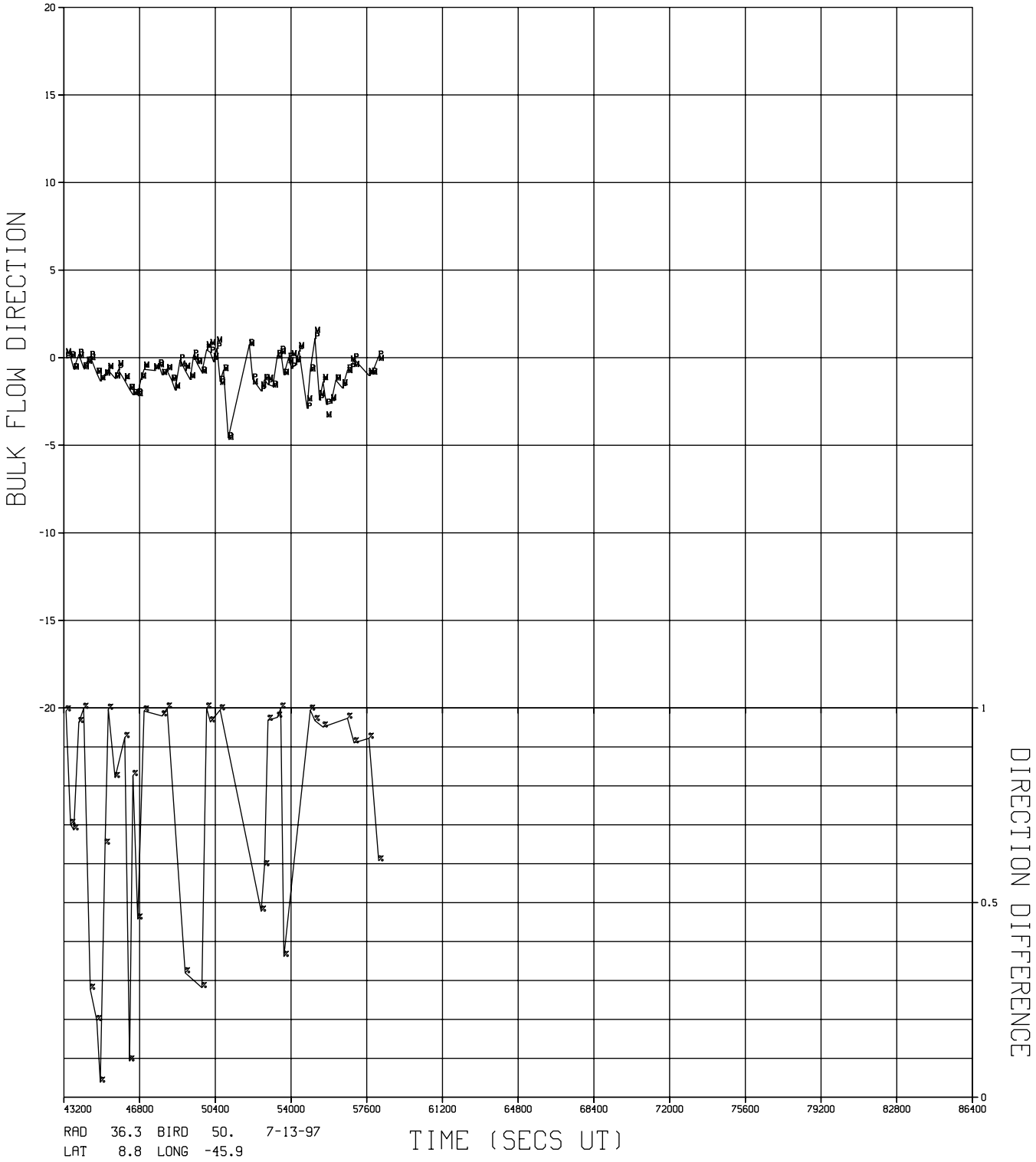

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

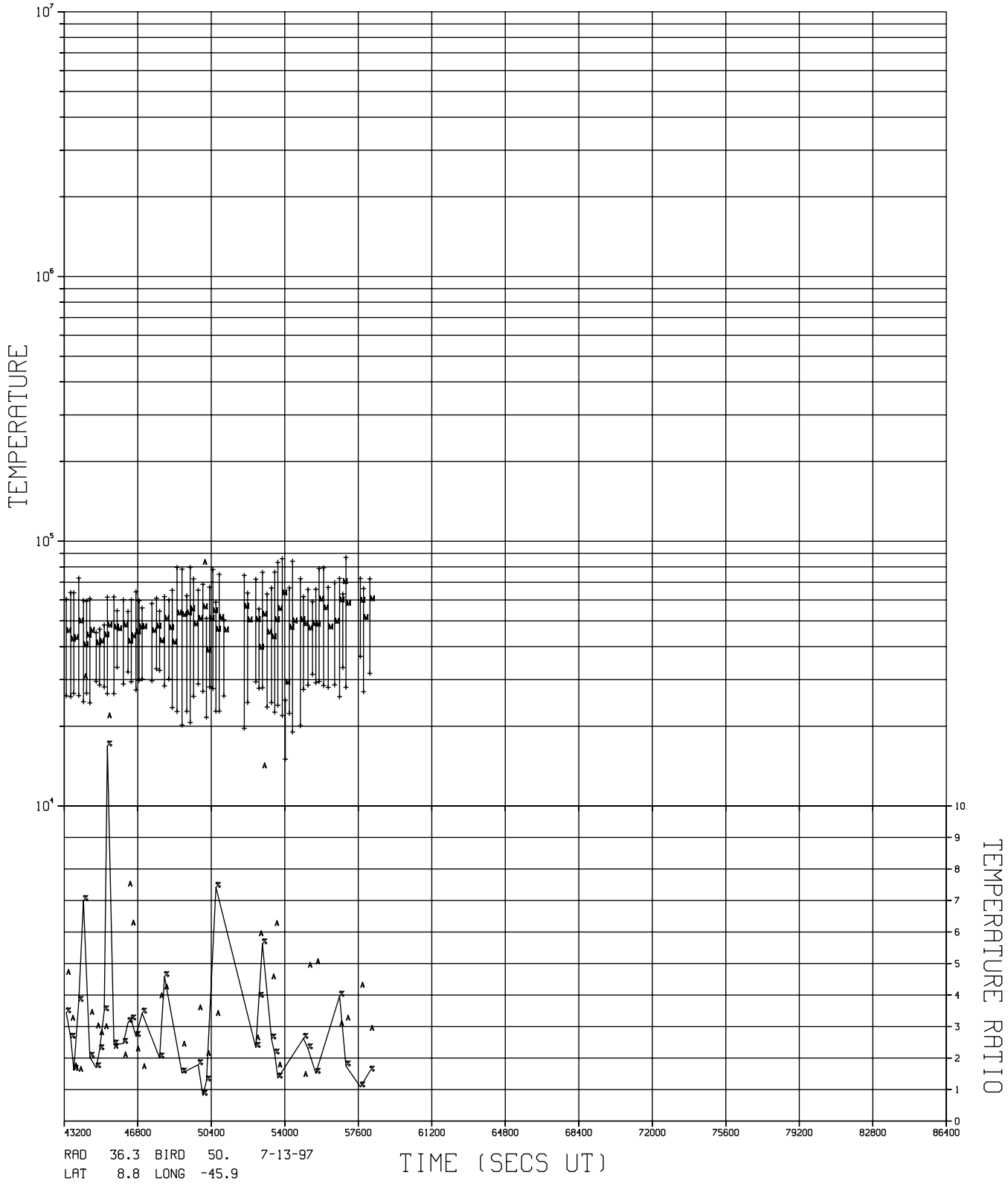


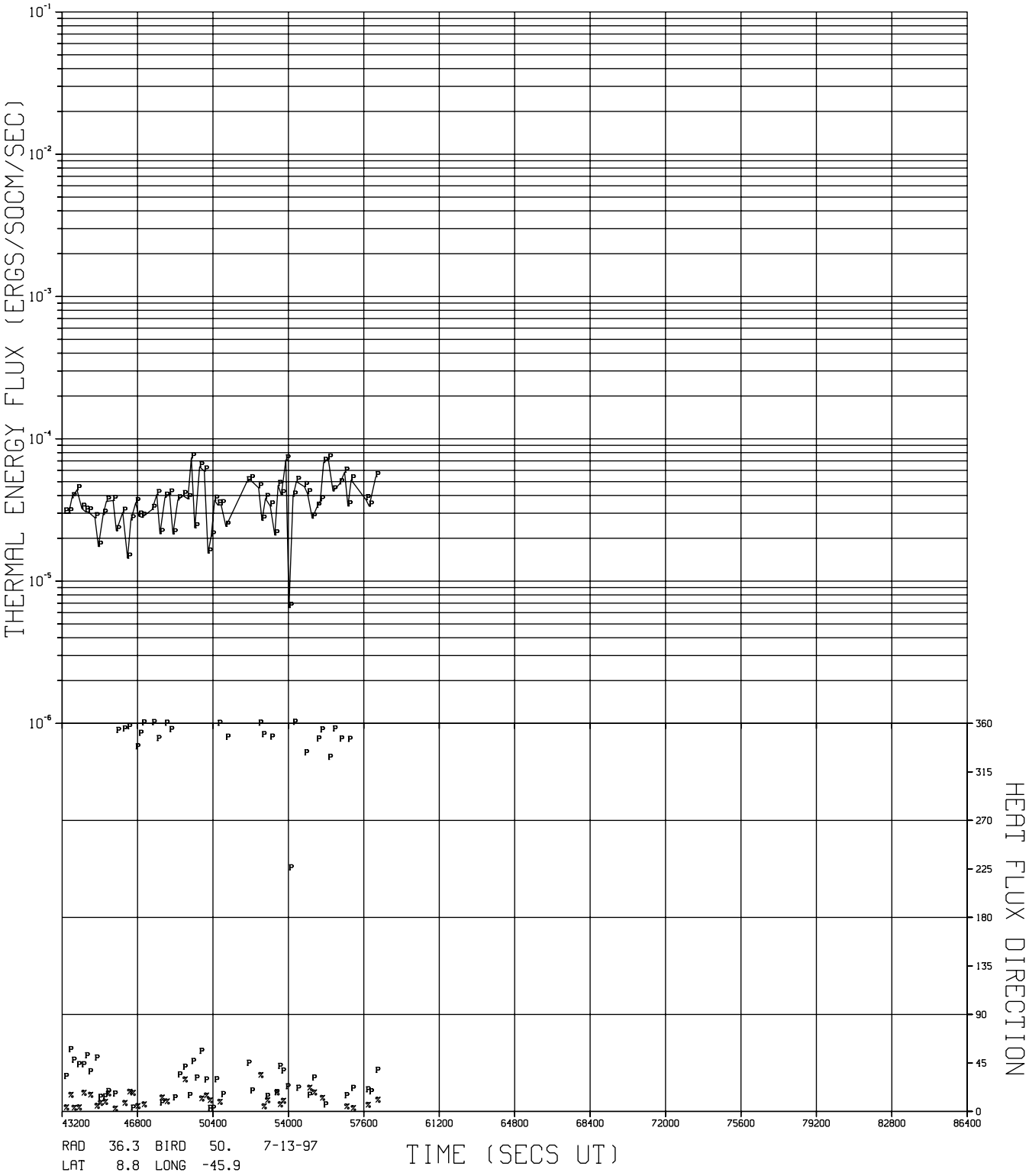
RAD 35.7 BIRD 50. 7-13-97
LAT 17.1 LONG -56.9

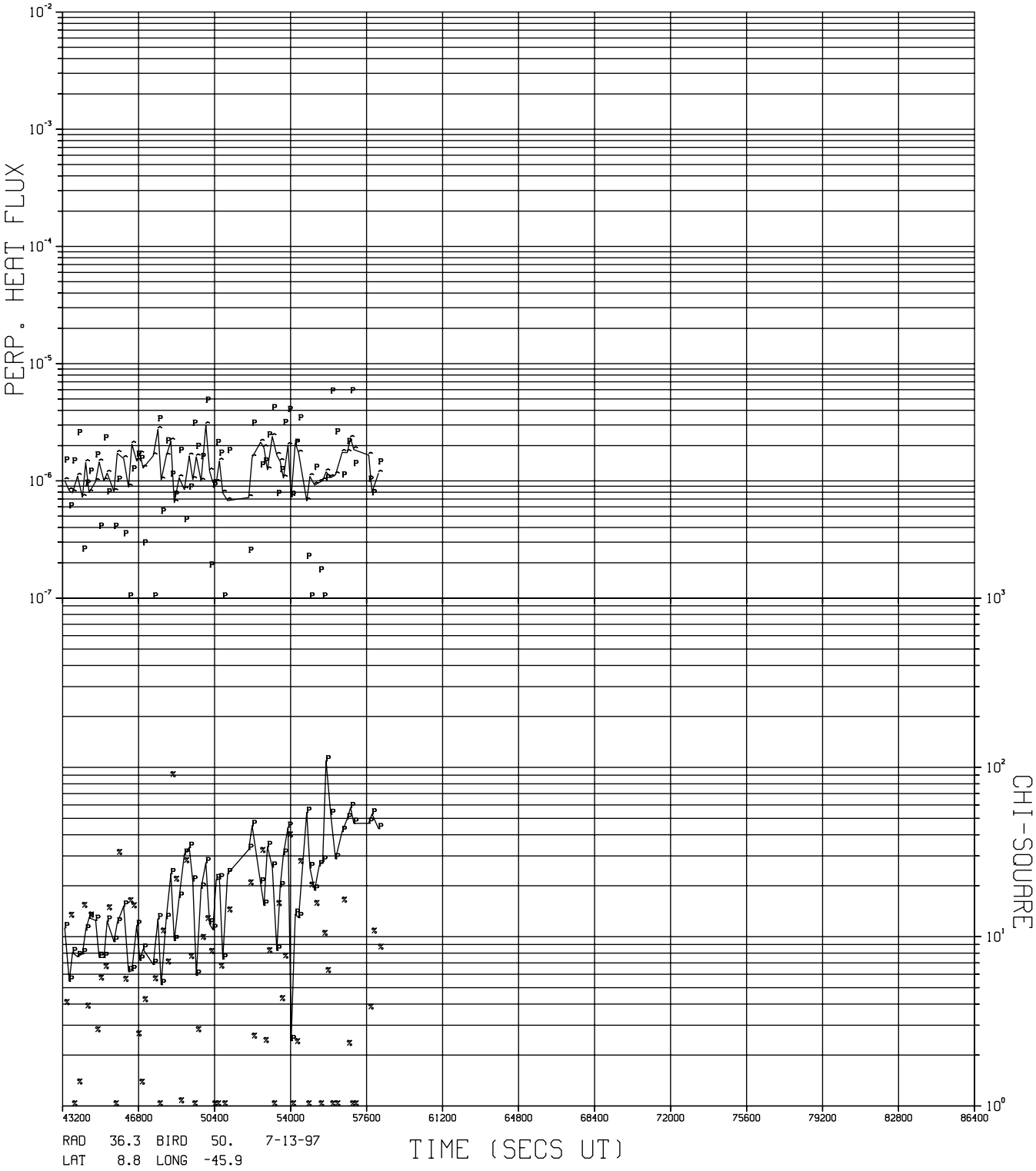

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9

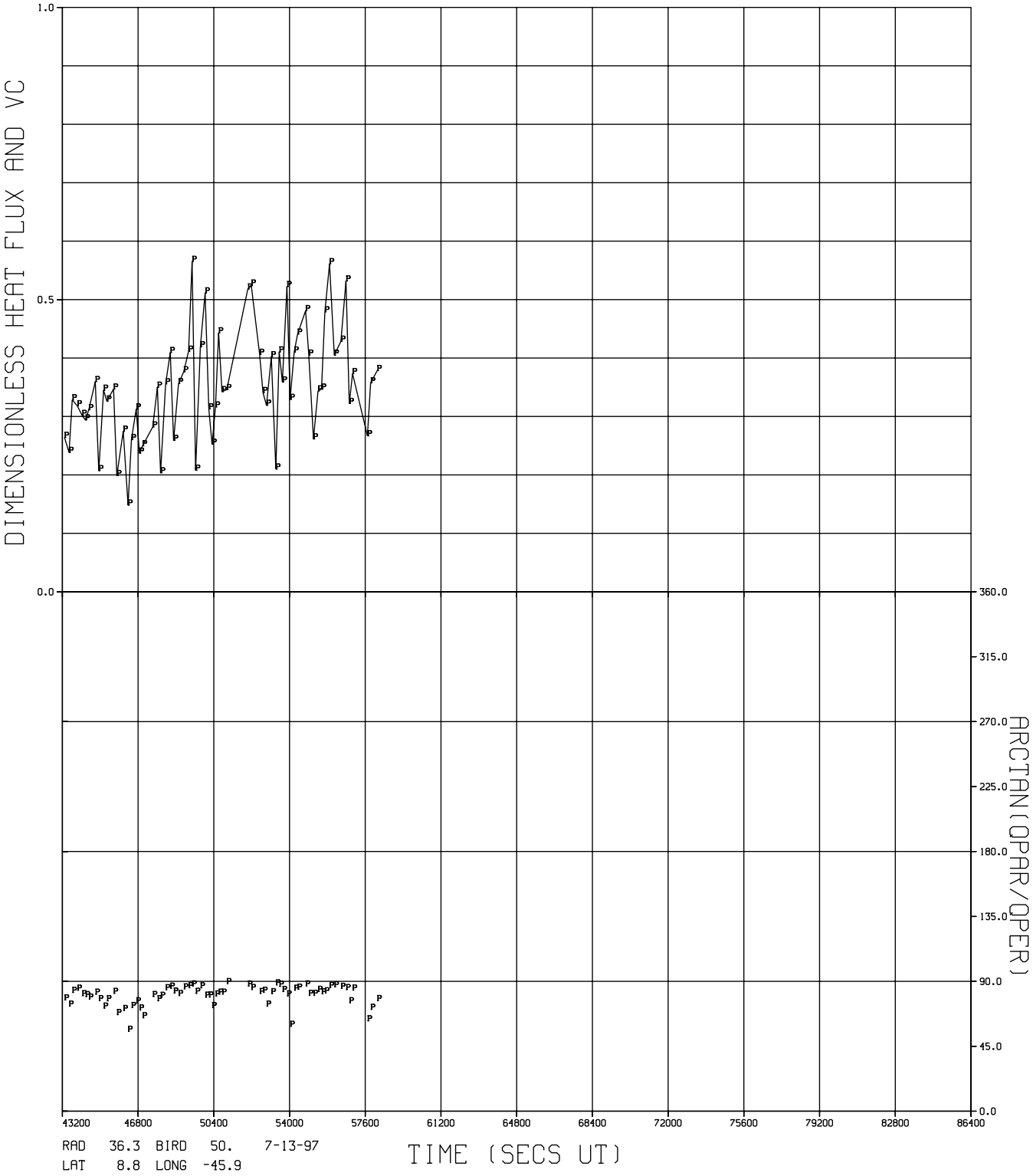

VELOCITY
1000
900
800
700
600
500
400
300
200
100
0
VELOCITY DIFFERENCE
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9
TIME (SECS UT)


BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9


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. 7-13-97
LAT 8.8 LONG -45.9


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 36.3 BIRD 50. 7-13-97
LAT 8.8 LONG -45.9