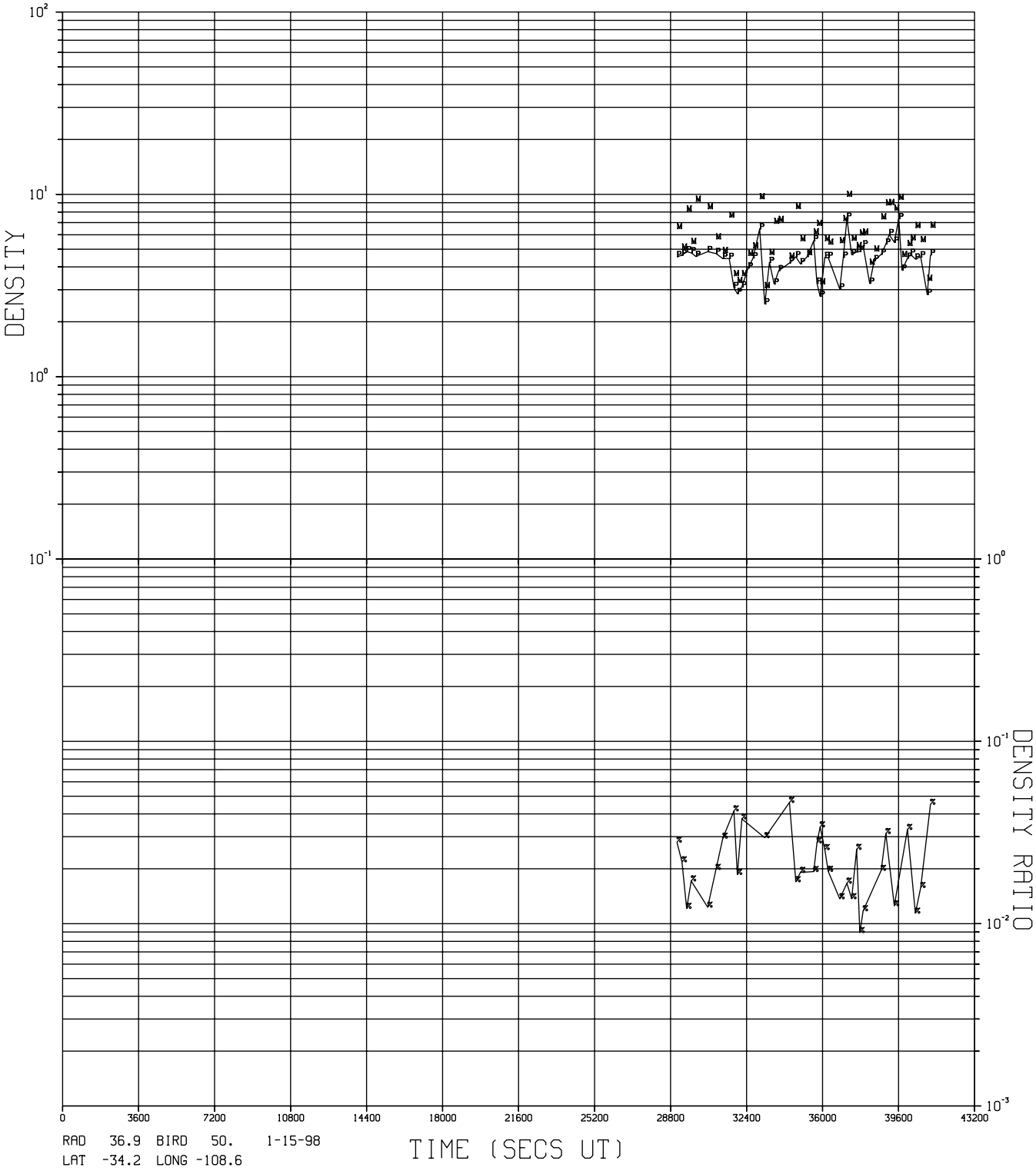
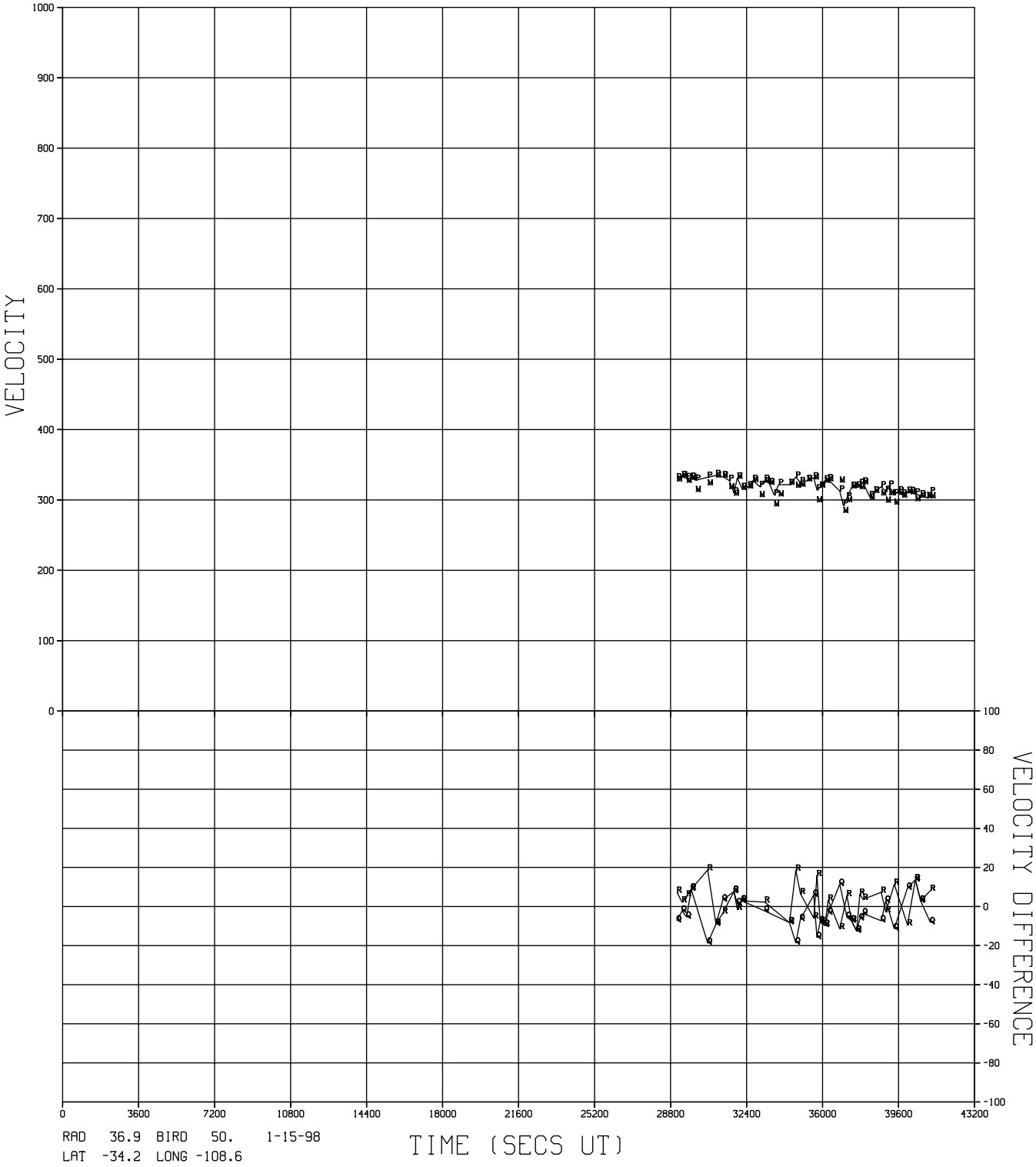
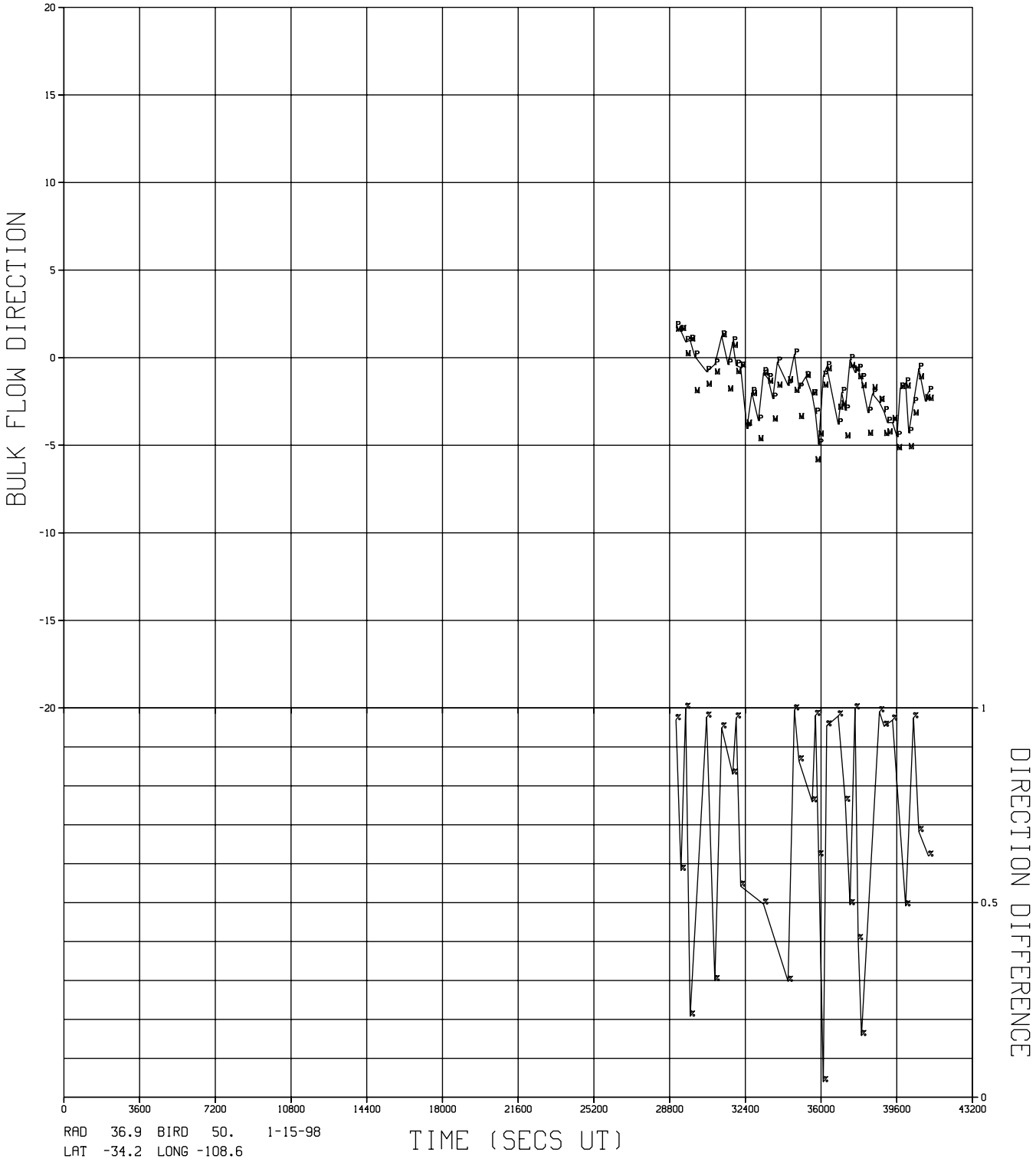
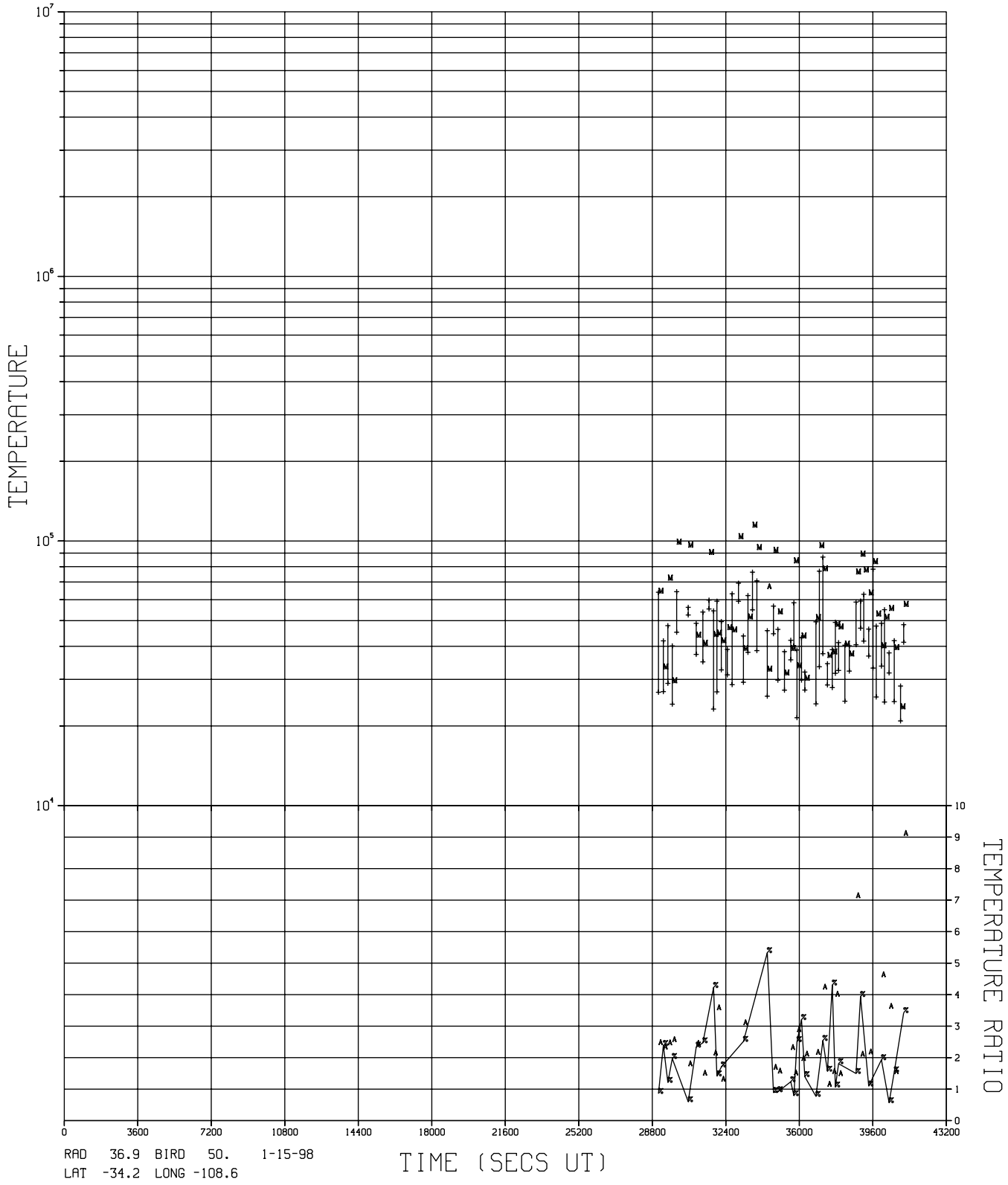
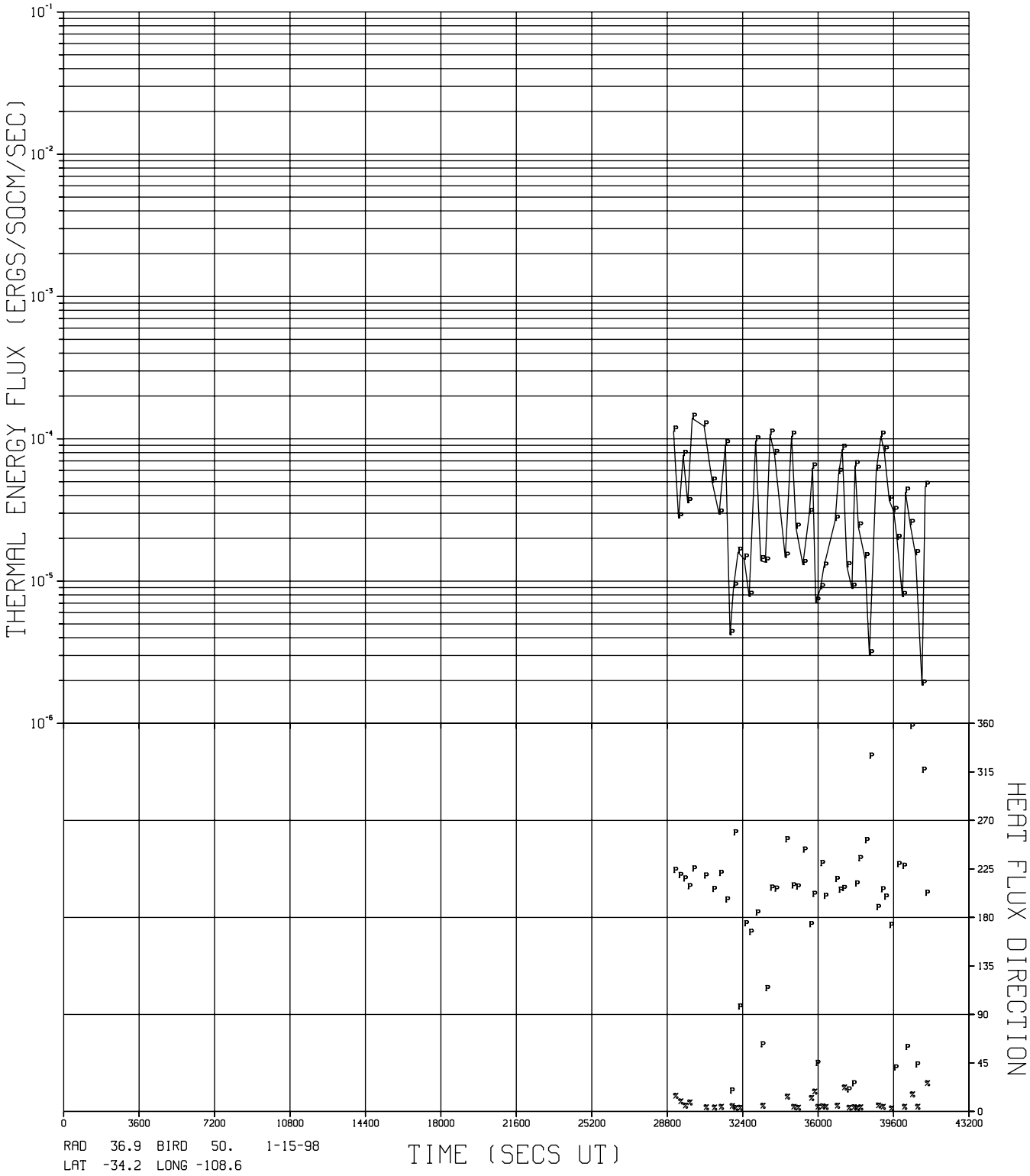
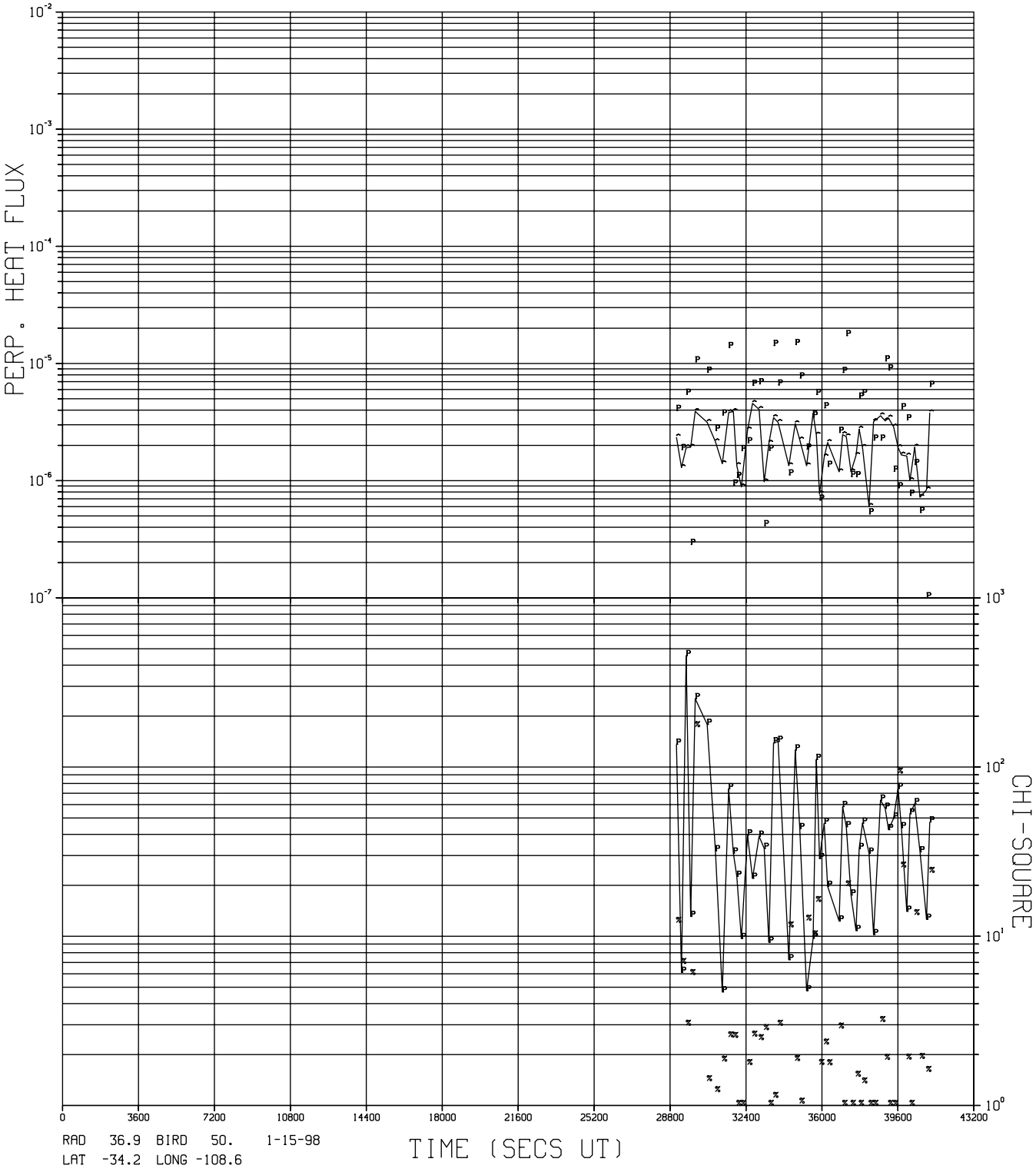

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

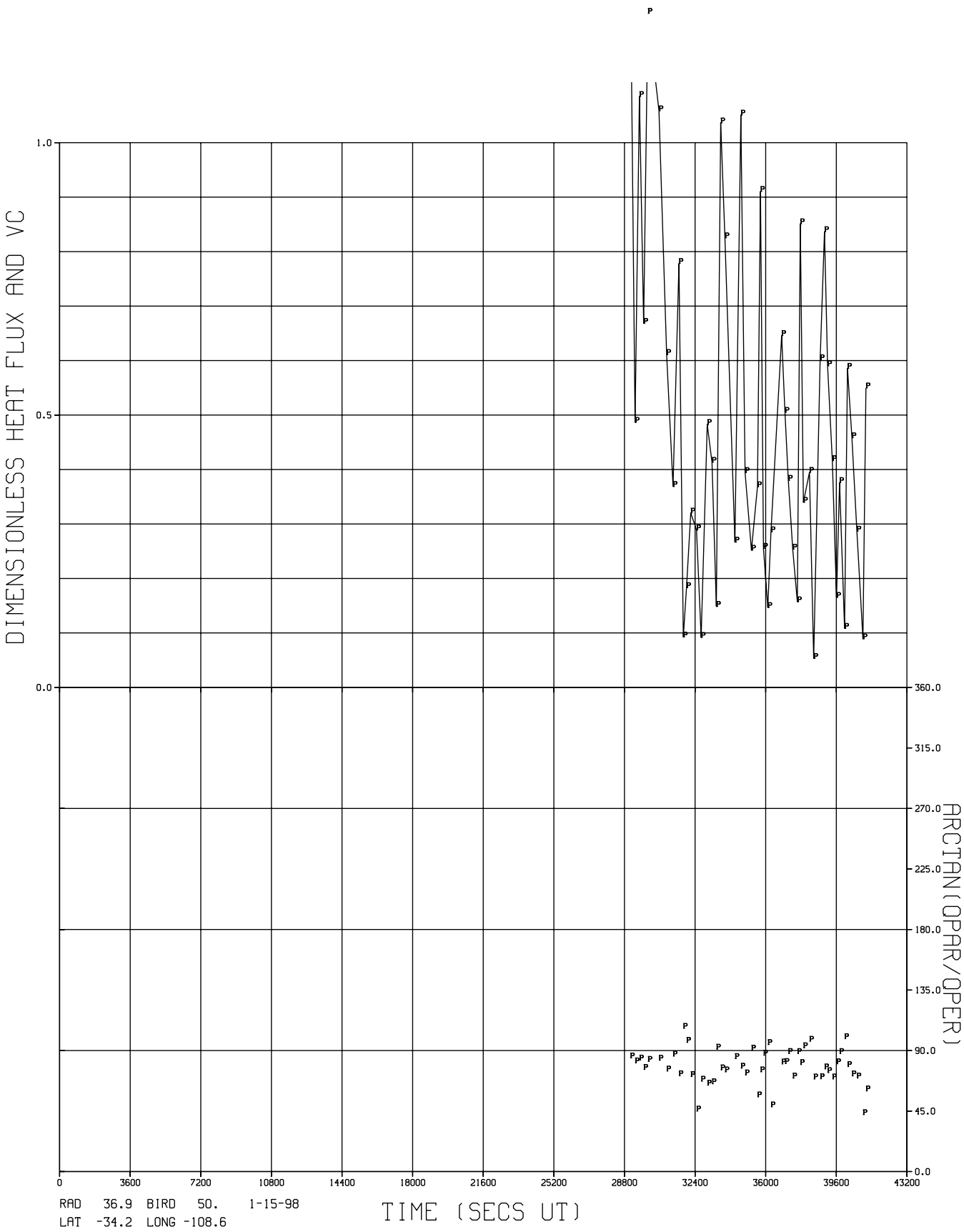

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

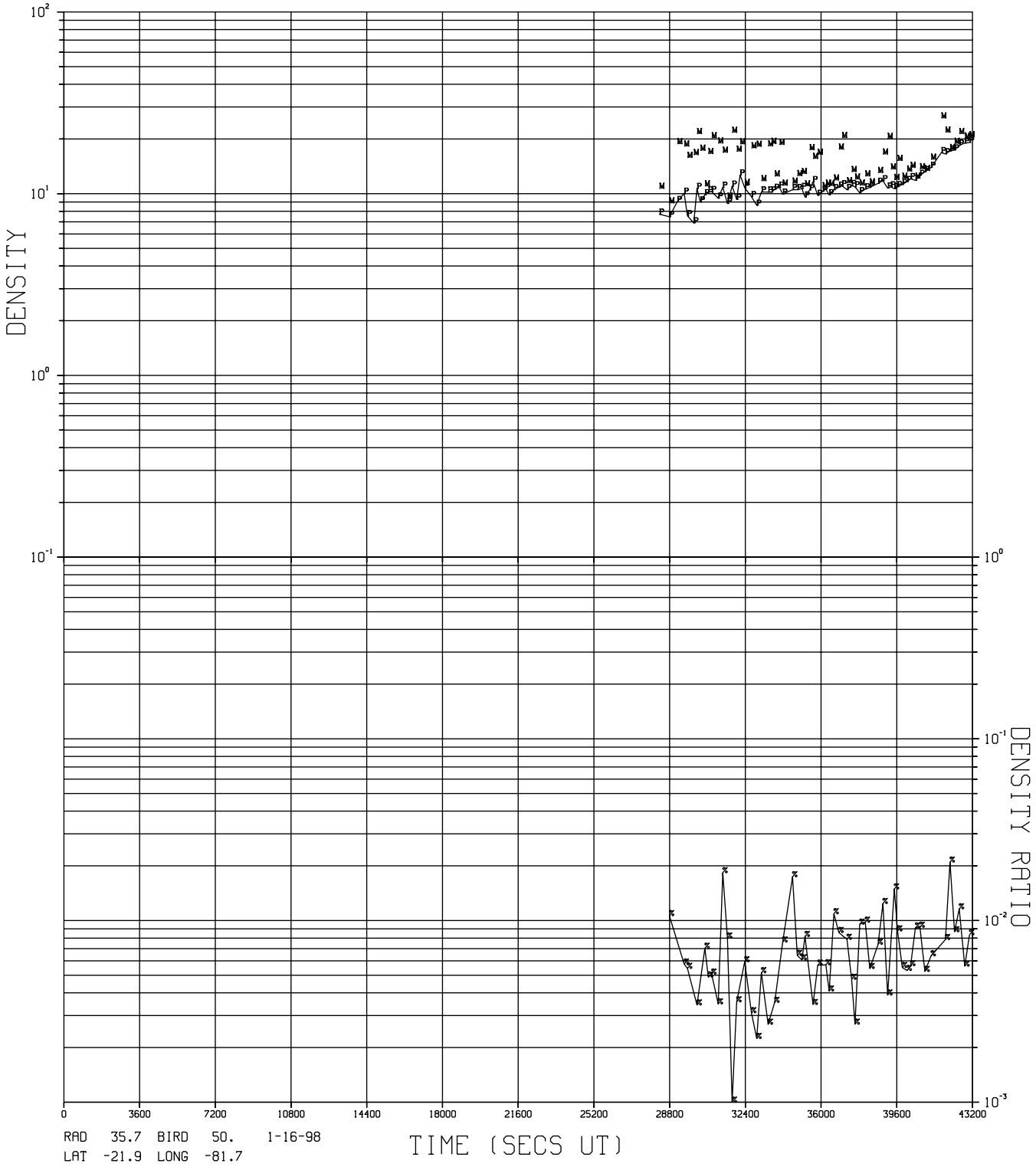

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

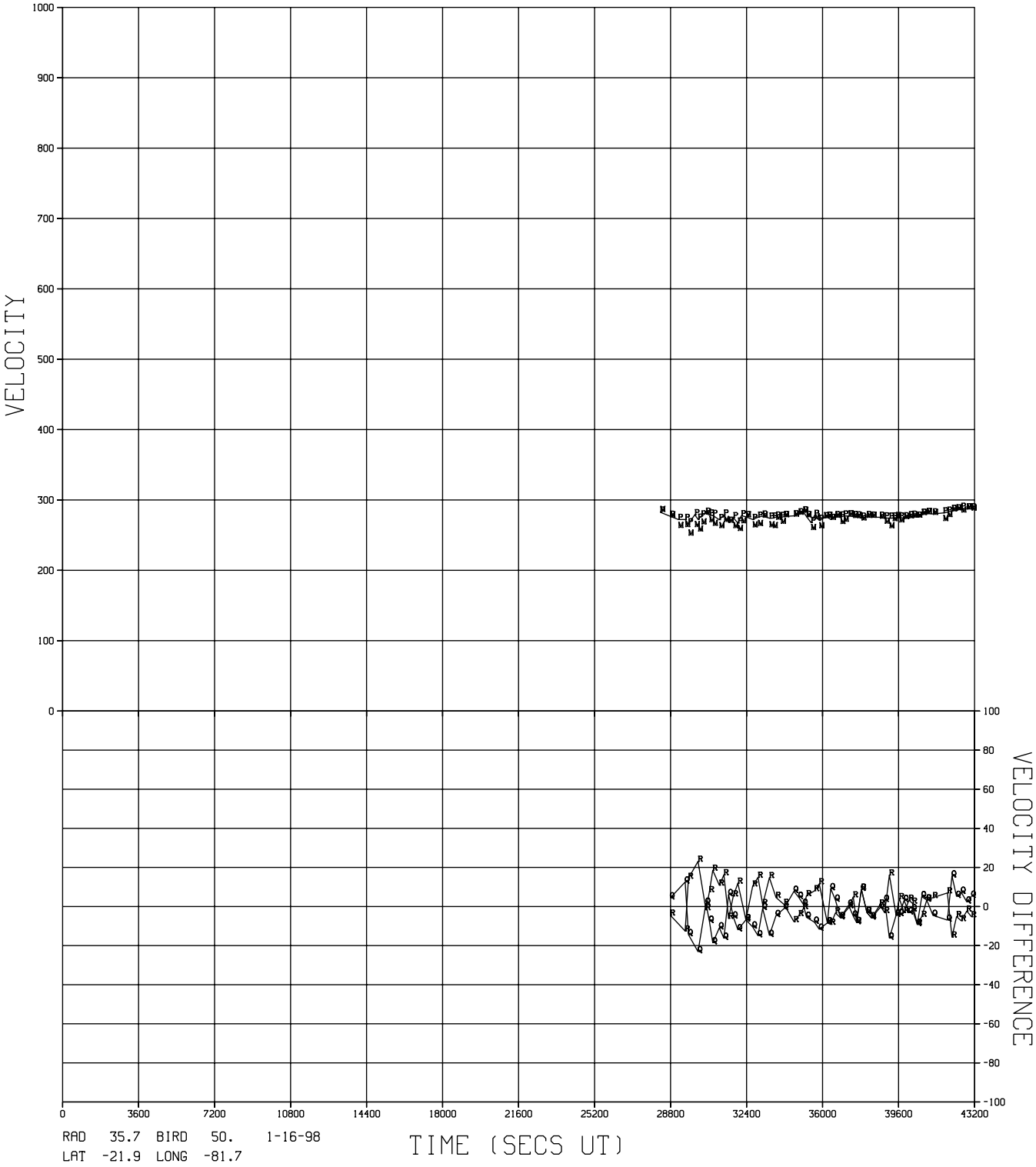

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

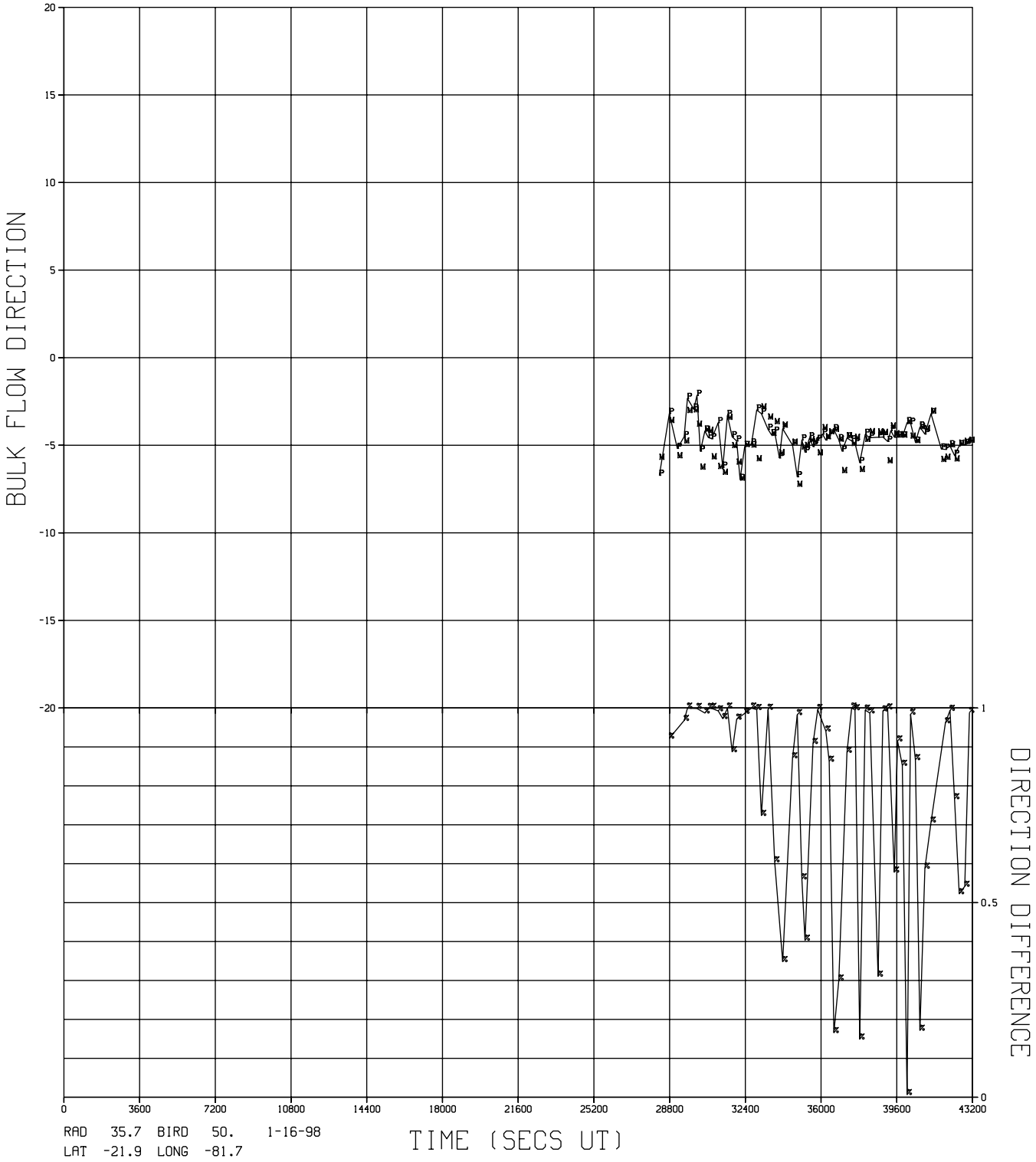

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

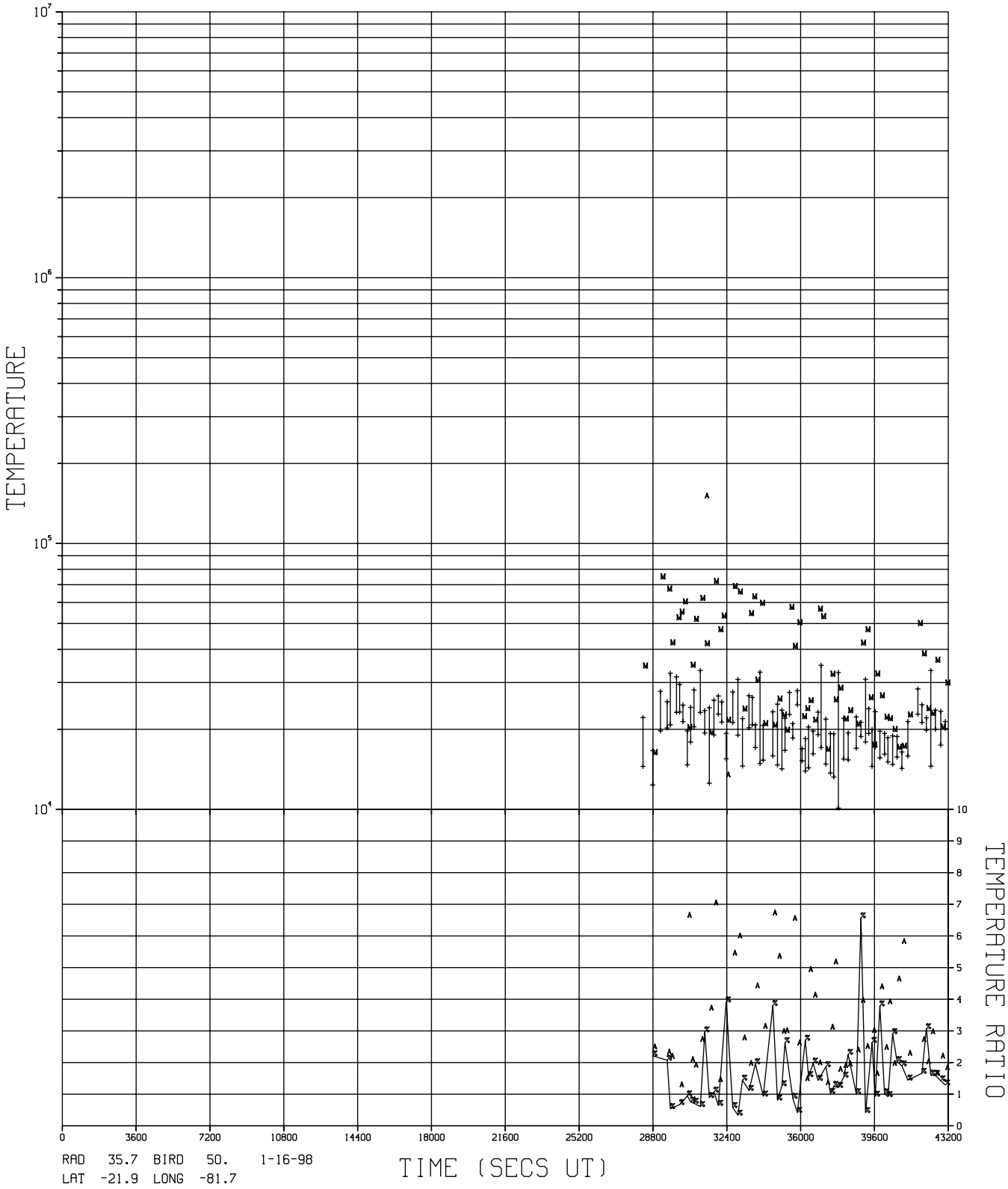

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

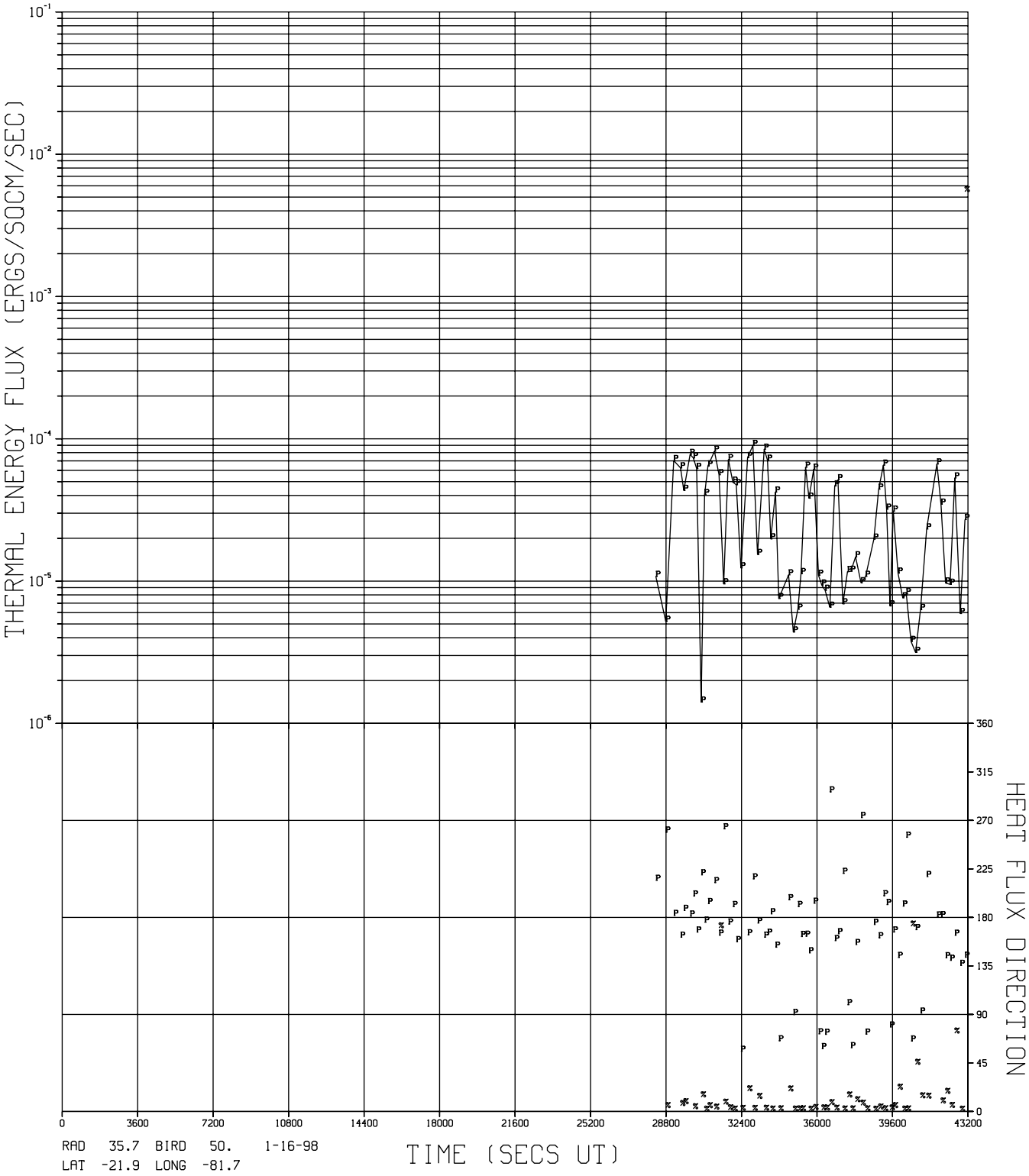

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 36.9 BIRD 50. 1-15-98
LAT -34.2 LONG -108.6

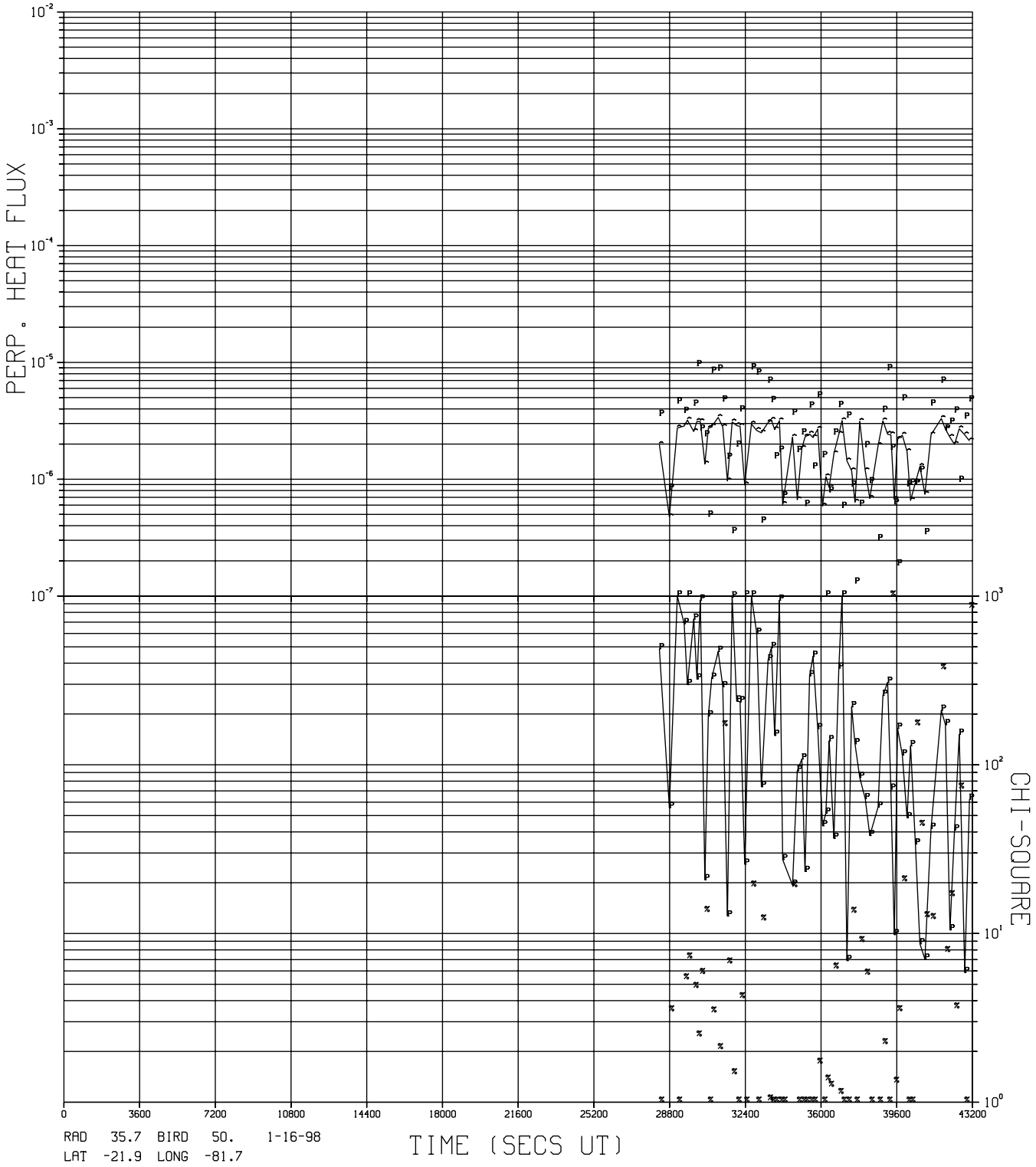

DENSITY
DENSITY RATIO
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

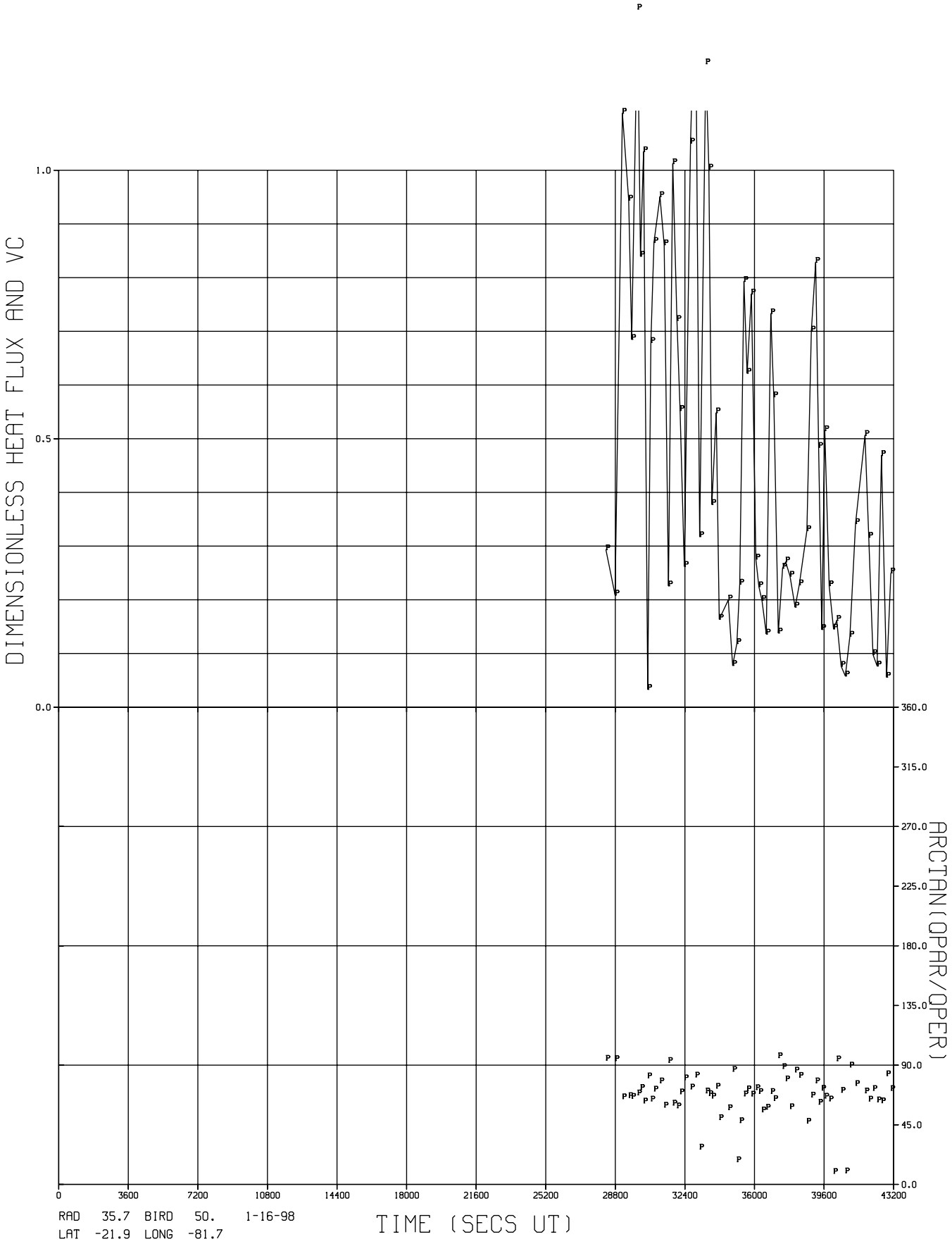

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

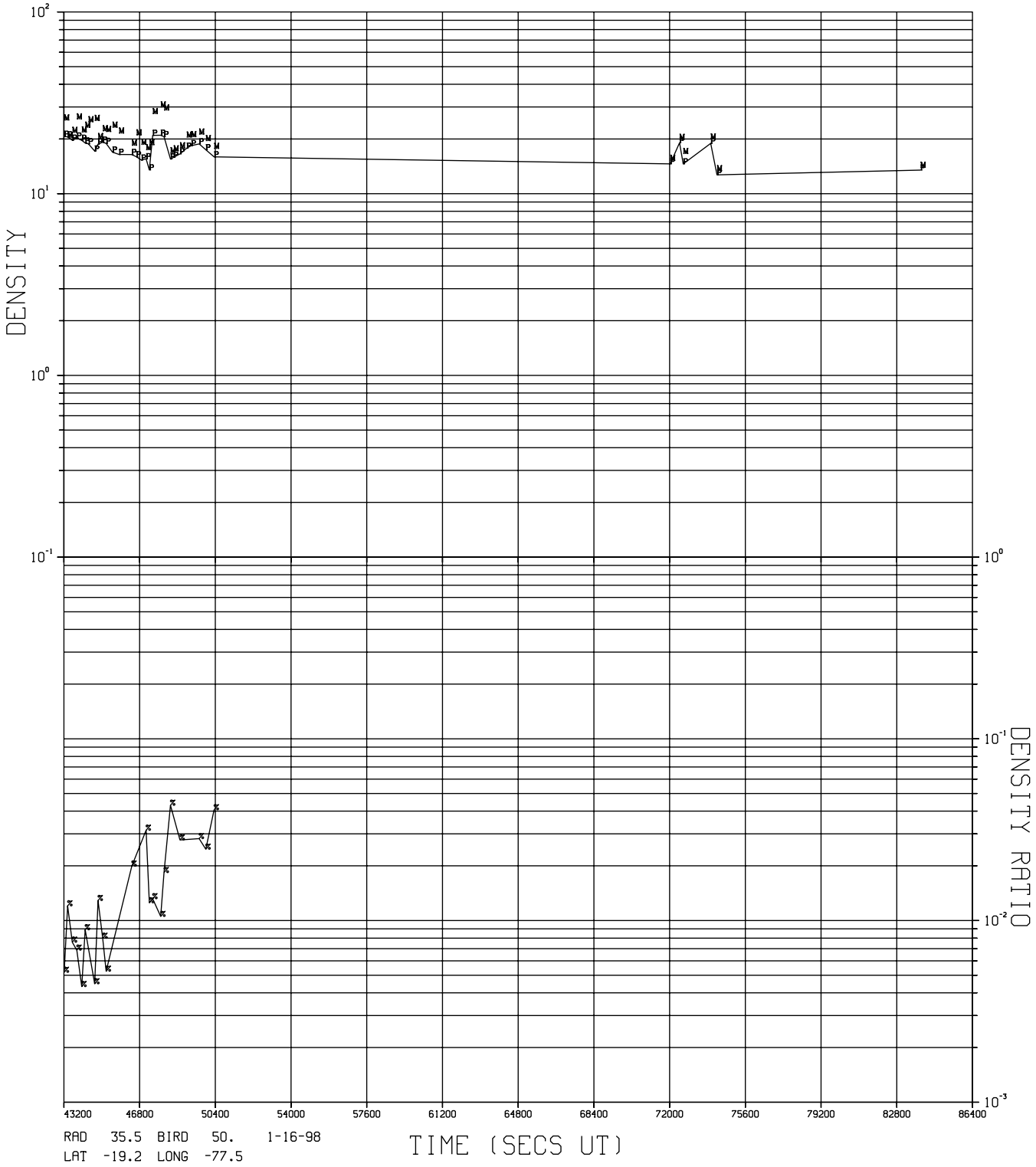

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

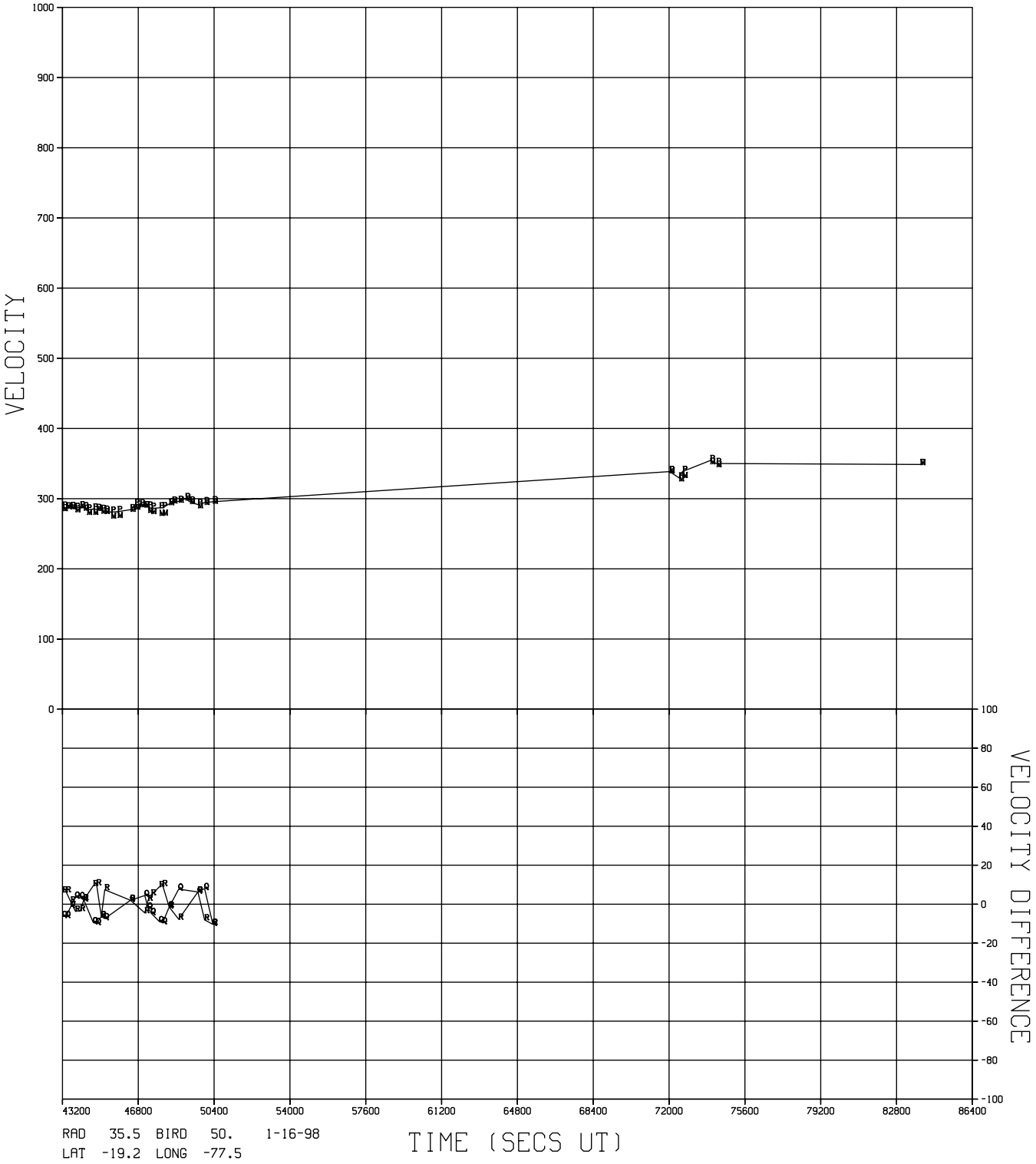

TEMPERATURE
10^7
10^6
10^5
10^4
TEMPERATURE RATIO
0
1
2
3
4
5
6
7
8
9
10
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

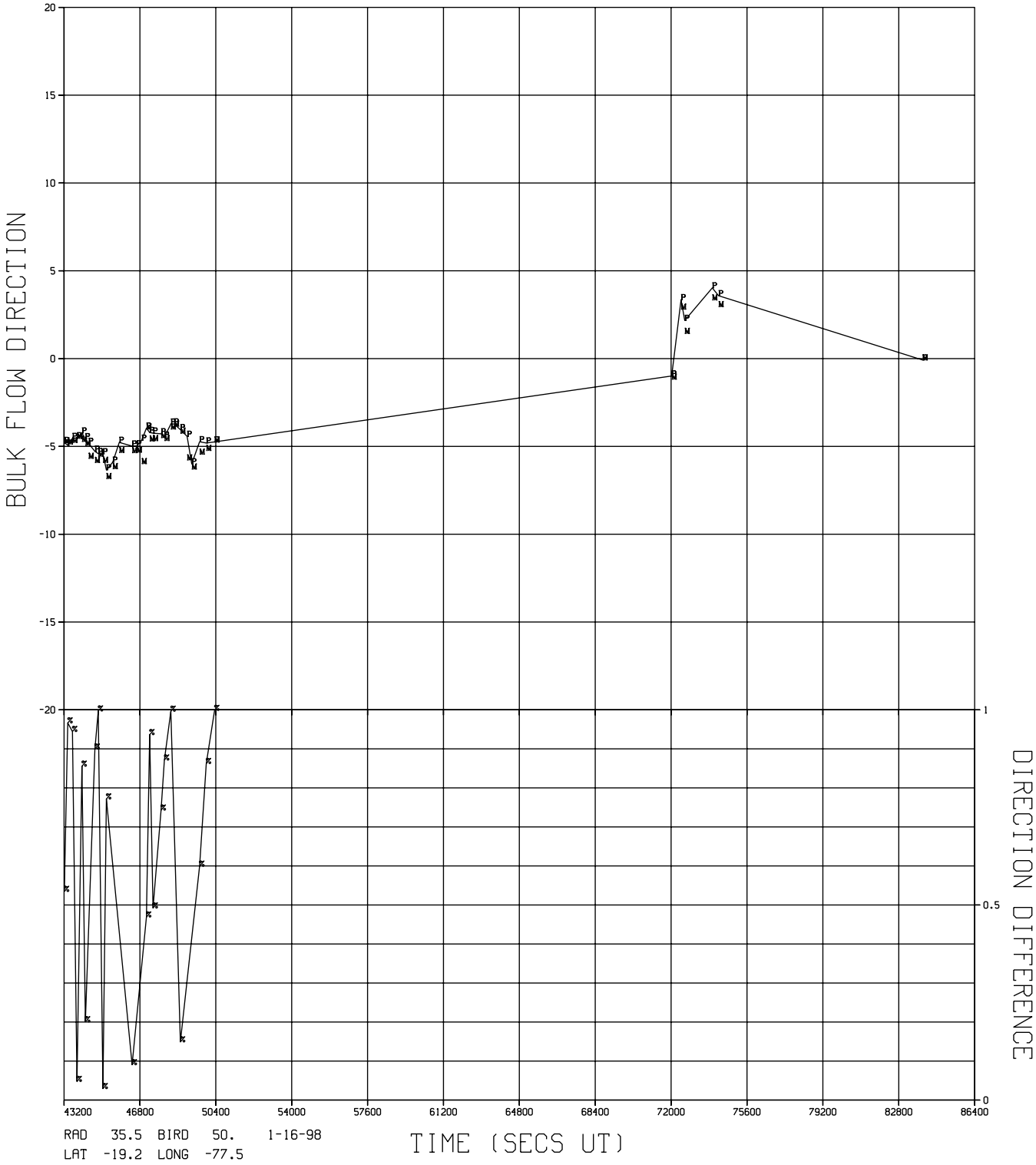

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

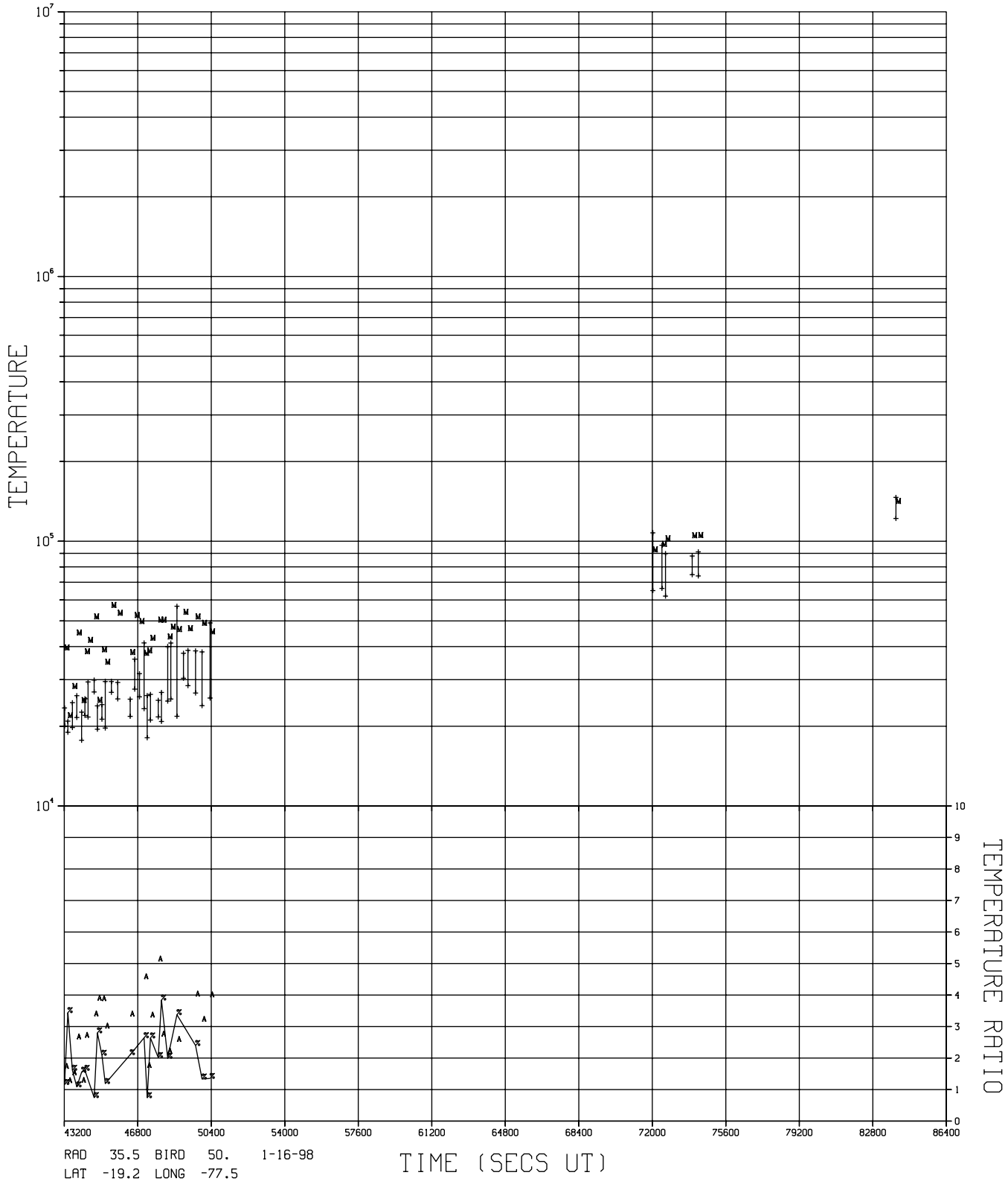

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

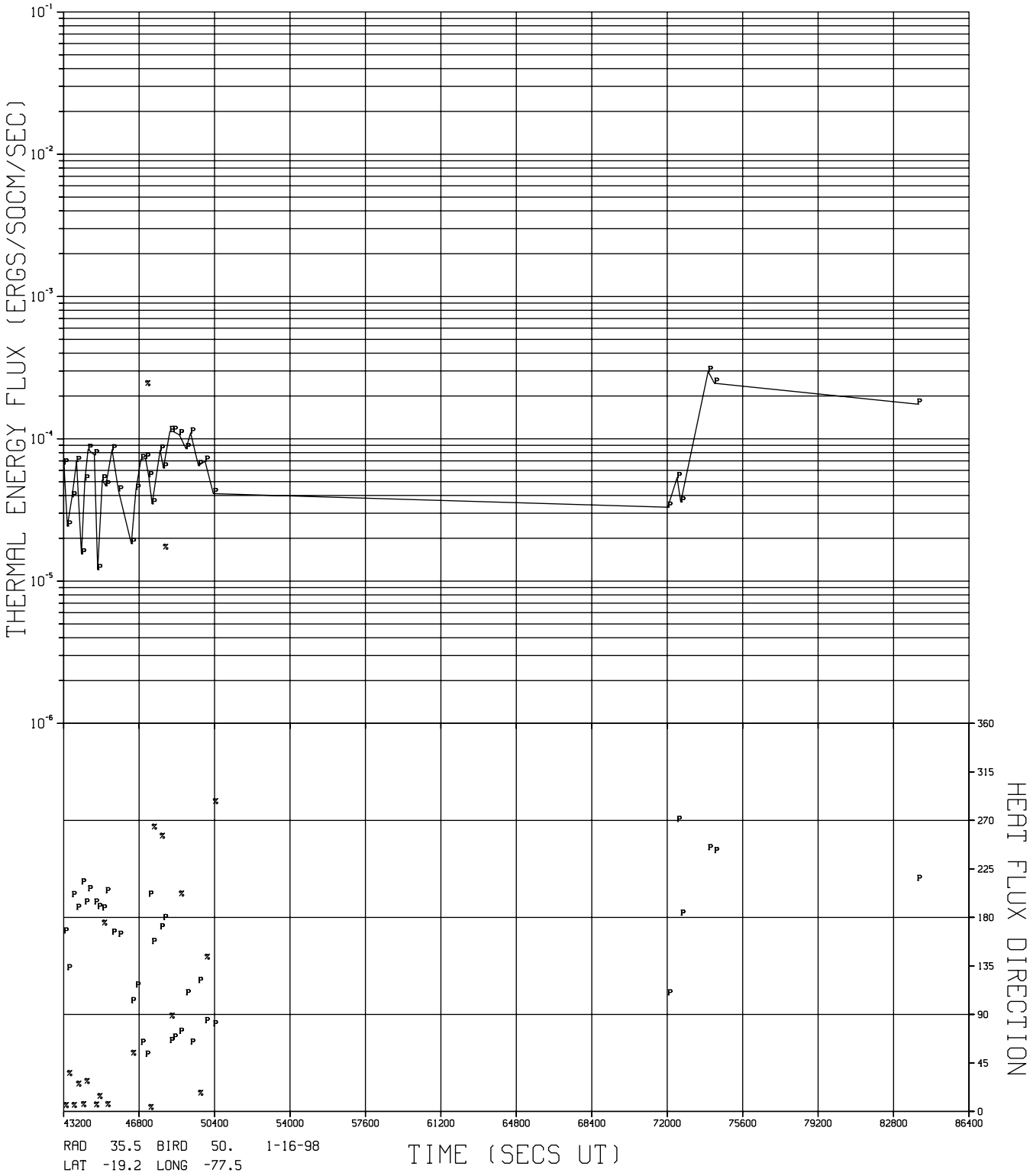

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 35.7 BIRD 50. 1-16-98
LAT -21.9 LONG -81.7

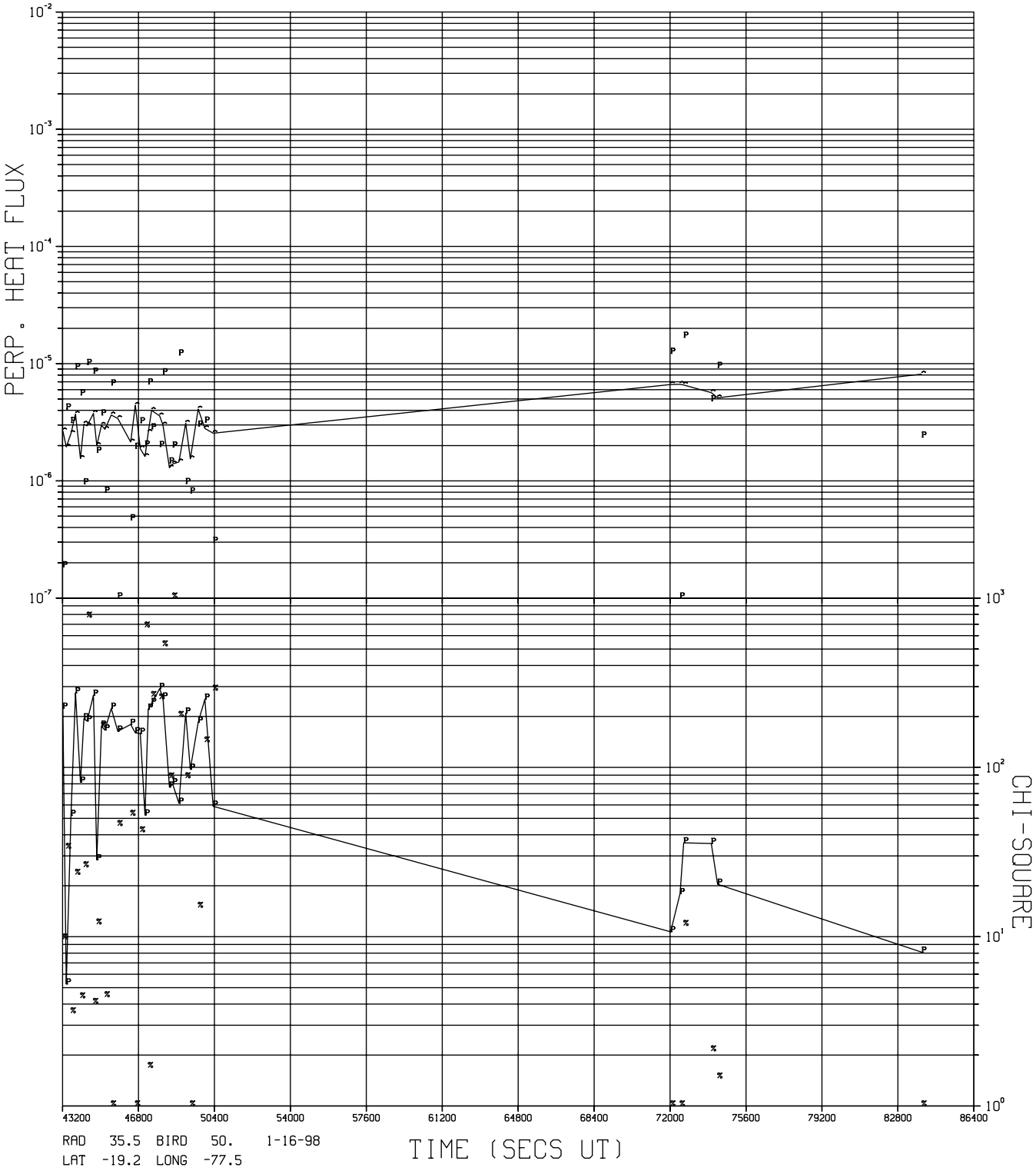

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

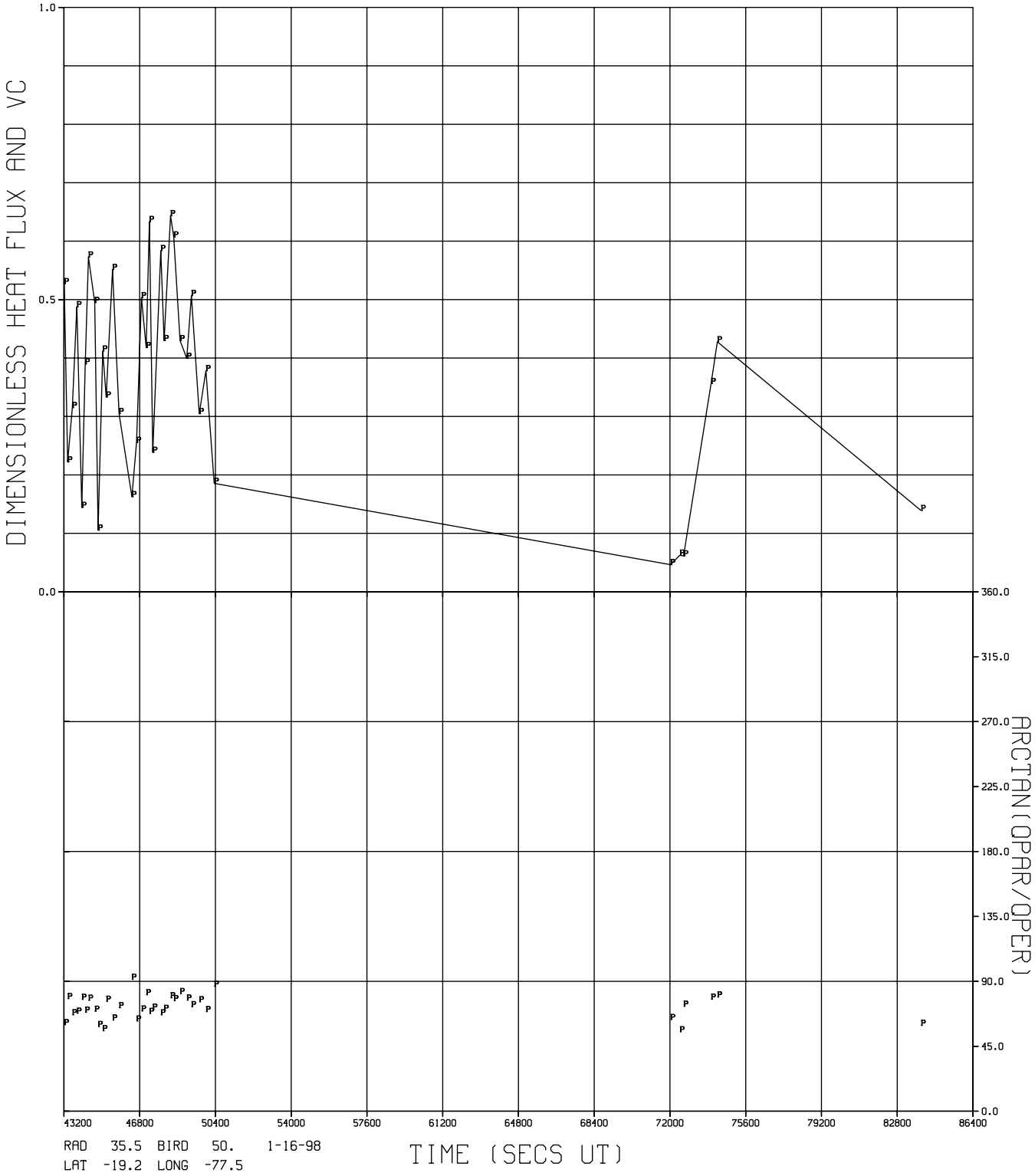

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
1000
900
800
700
600
500
400
300
200
100
0
100
80
60
40
20
0
-20
-40
-60
-80
-100
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

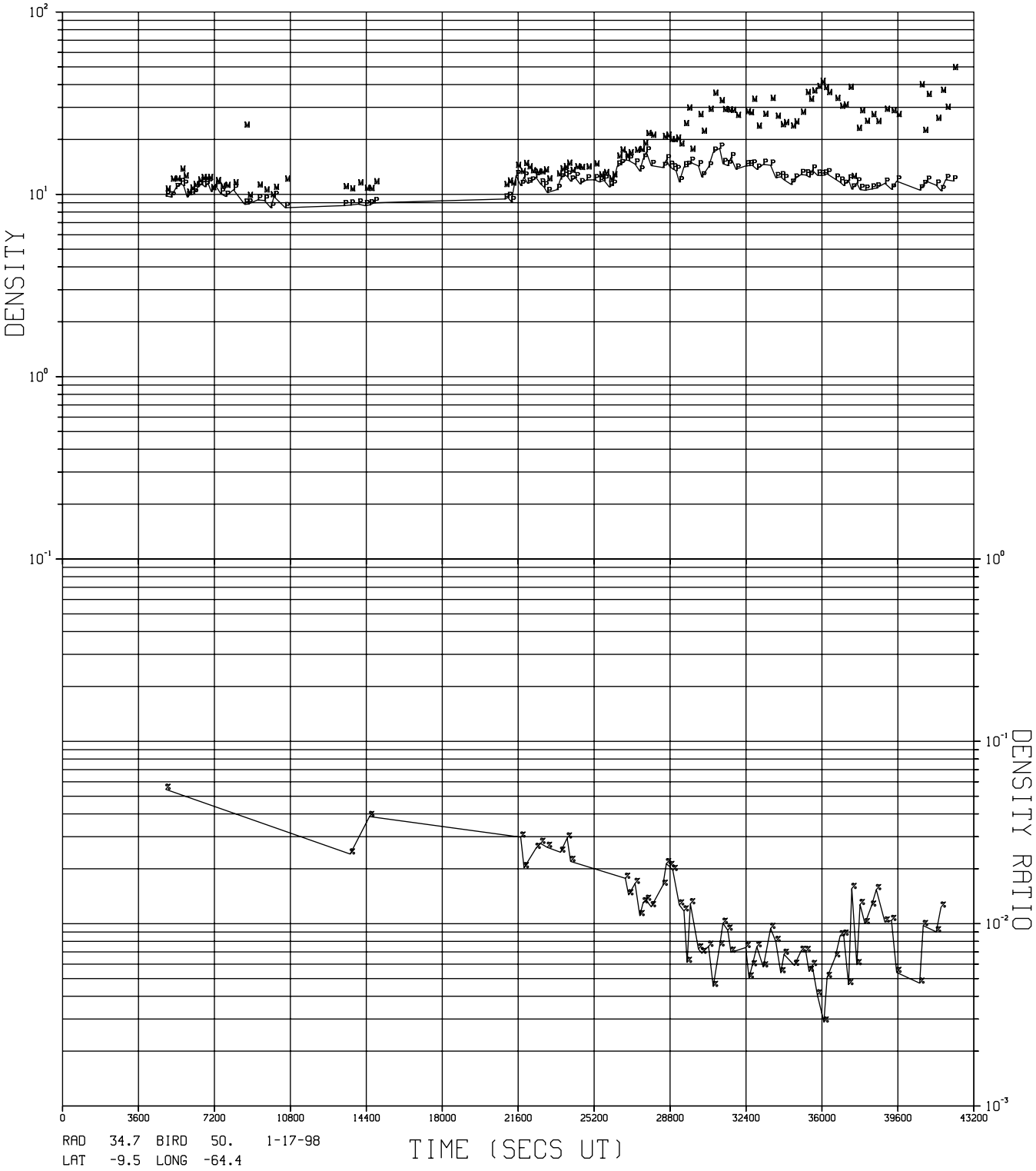

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

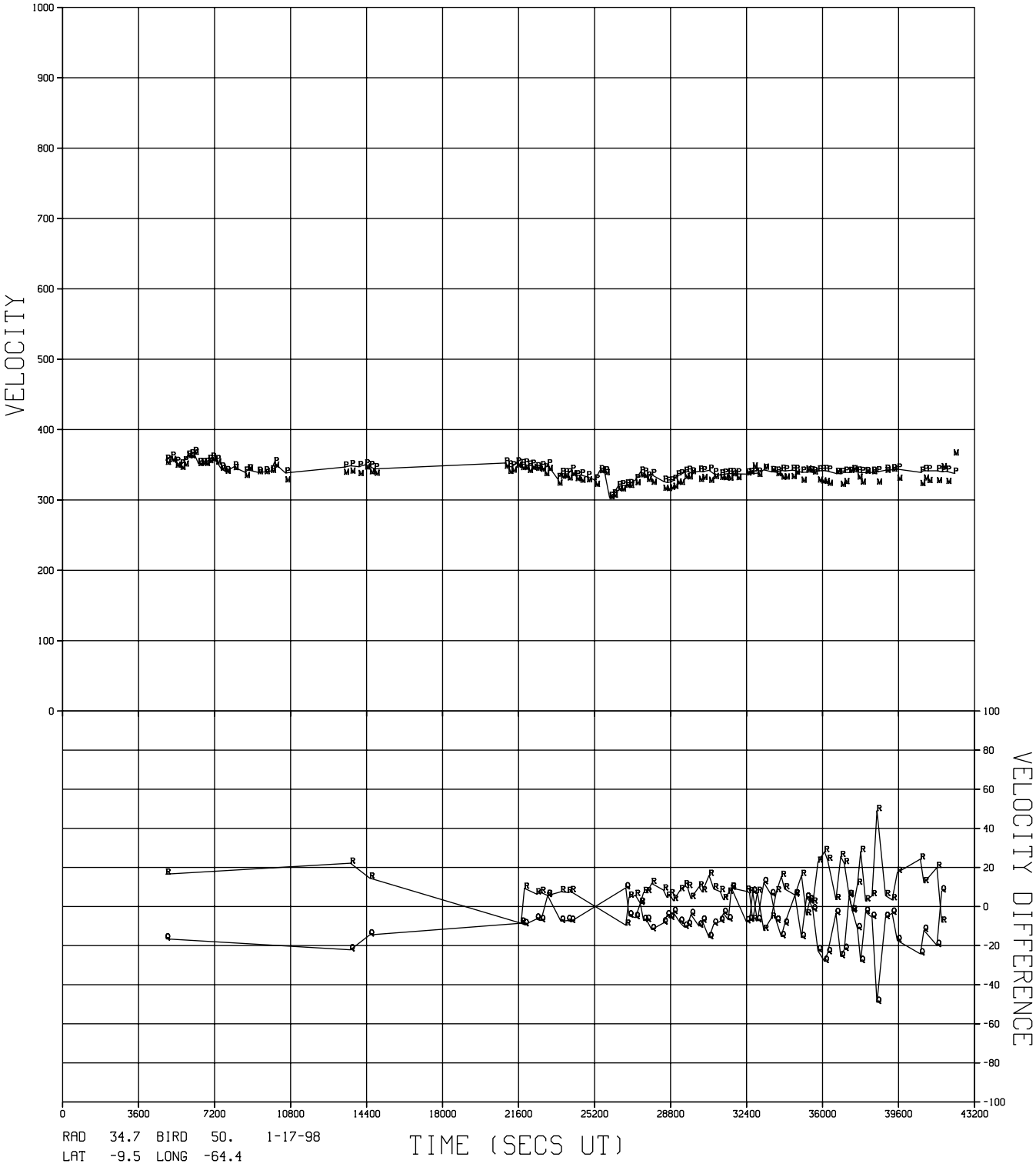

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

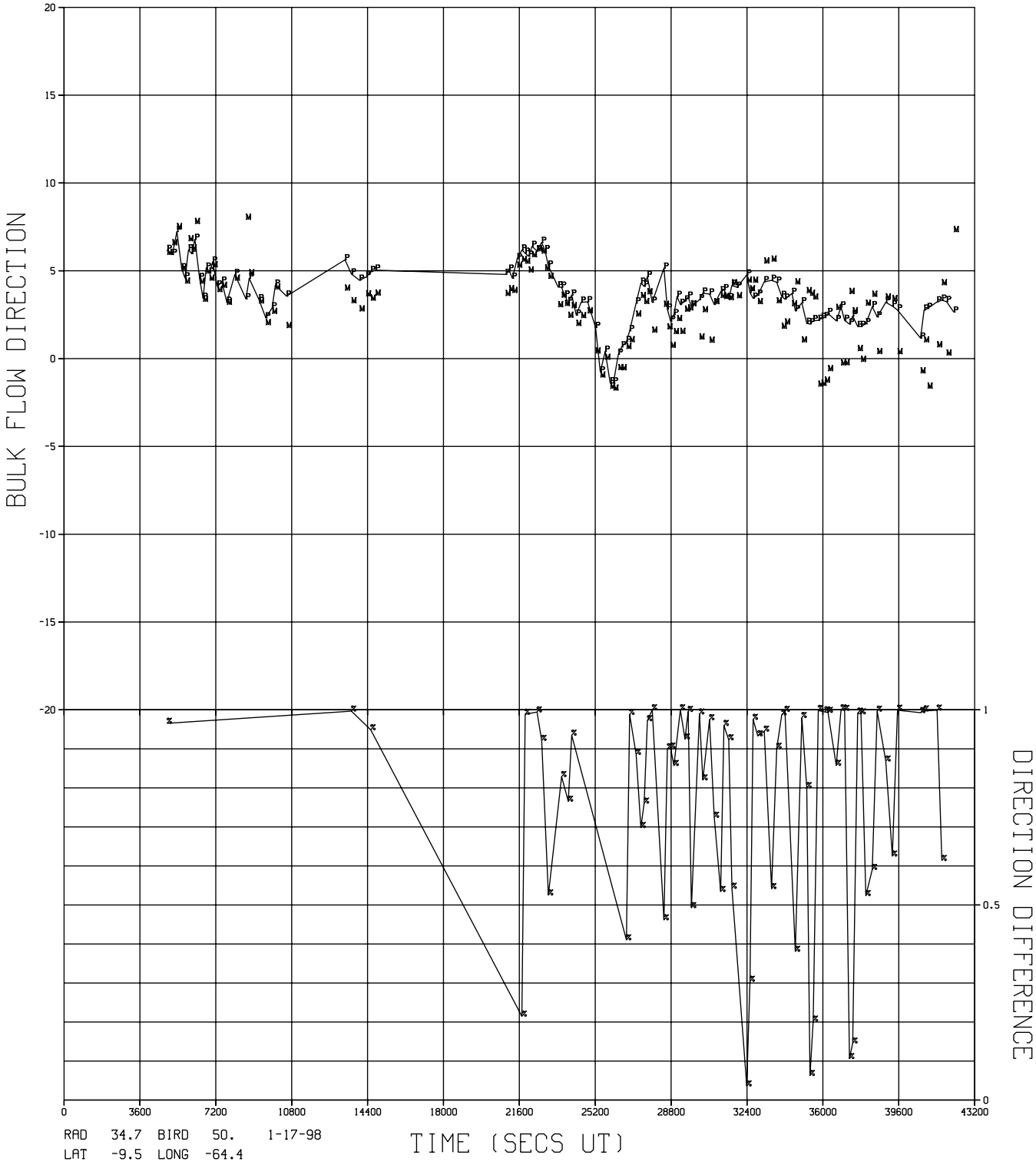

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

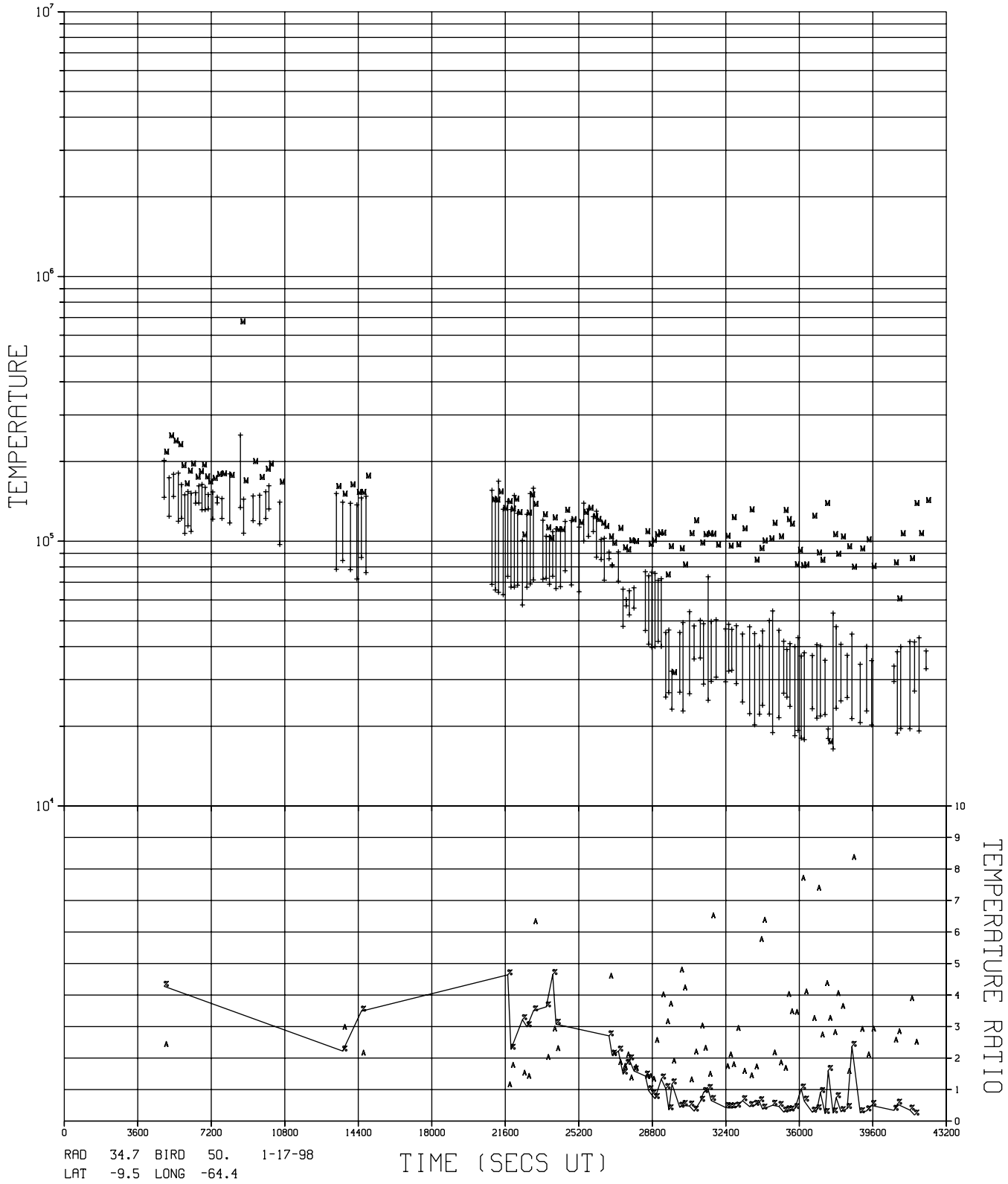

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

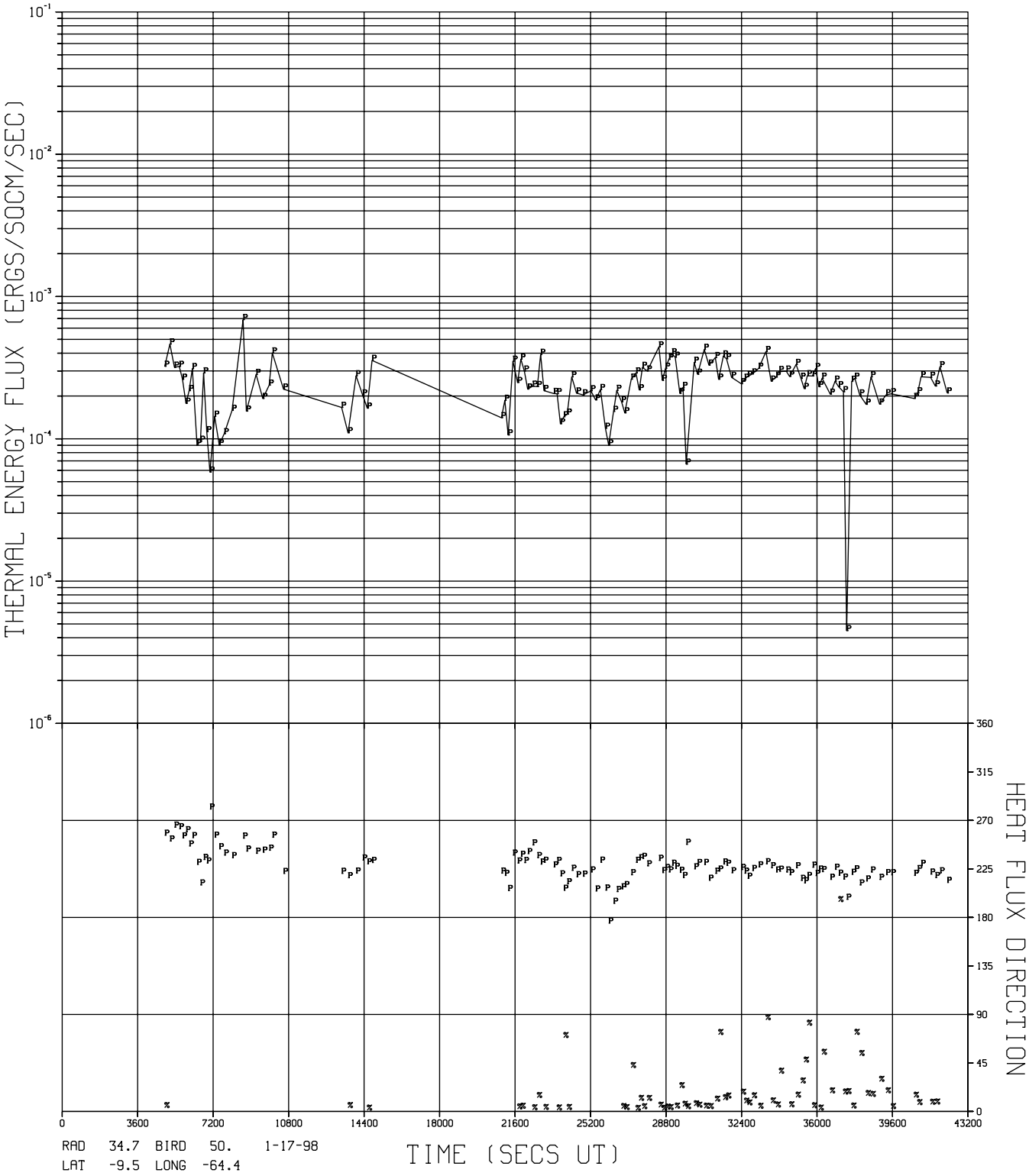

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 35.5 BIRD 50. 1-16-98
LAT -19.2 LONG -77.5

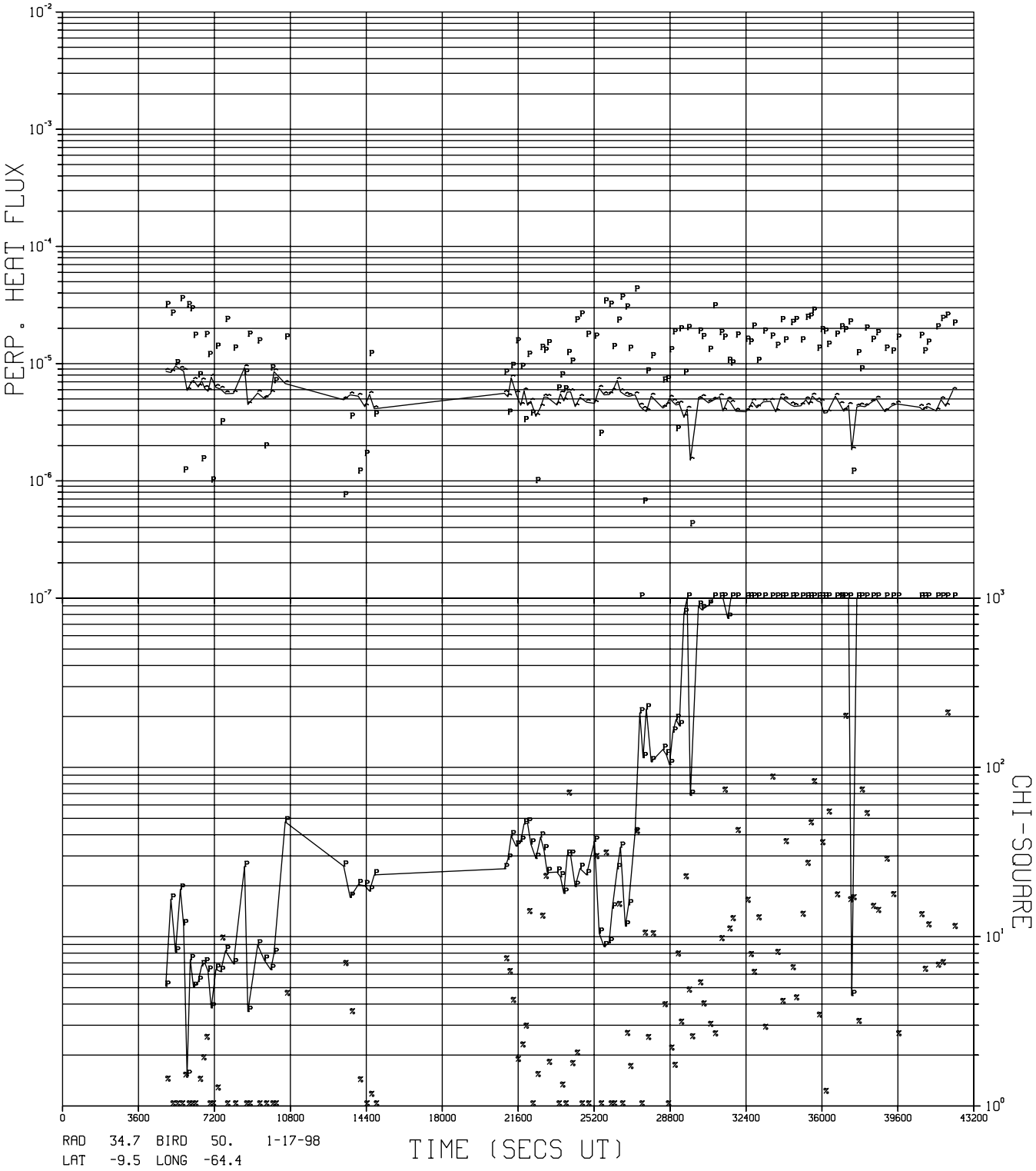

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

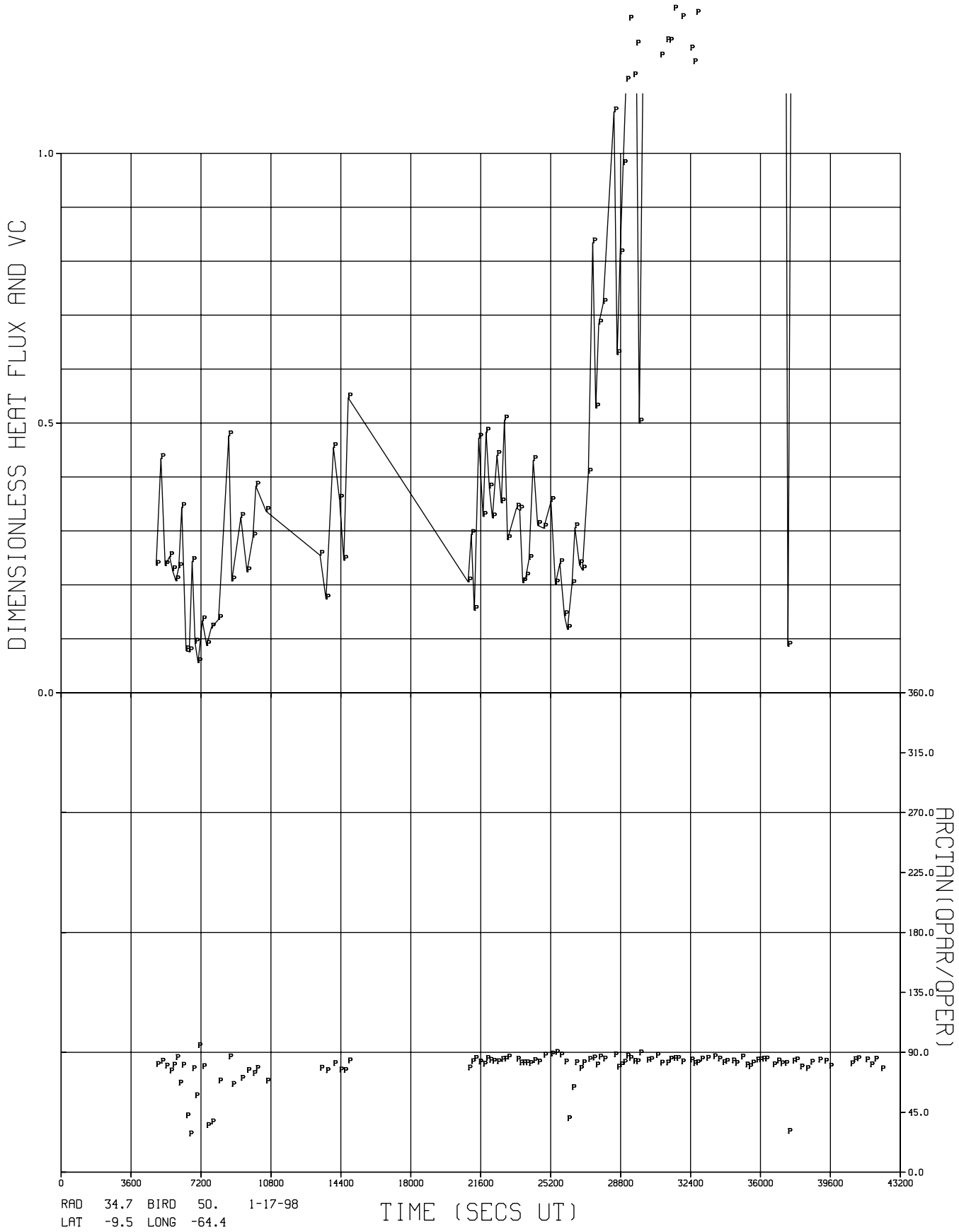

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

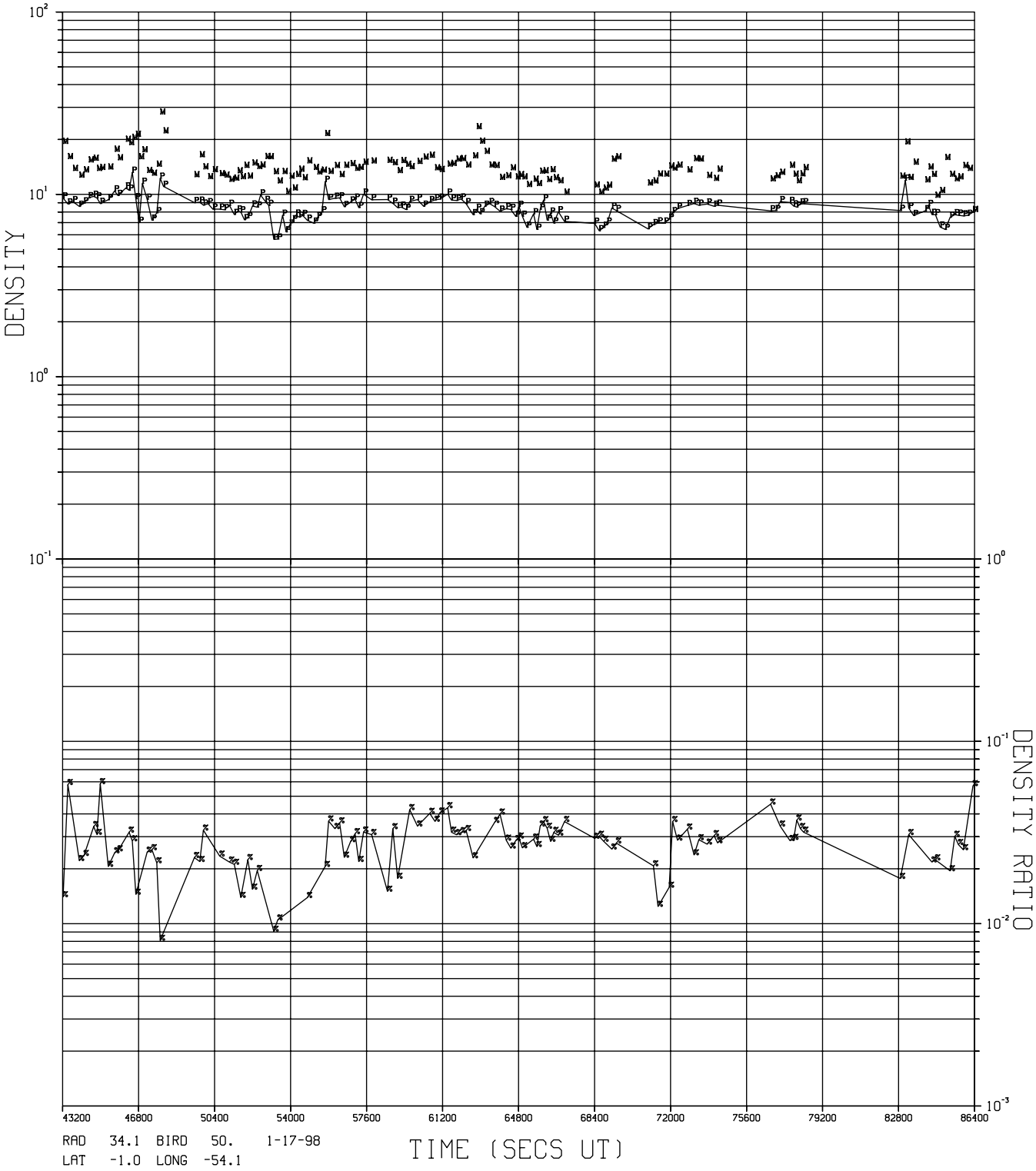

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

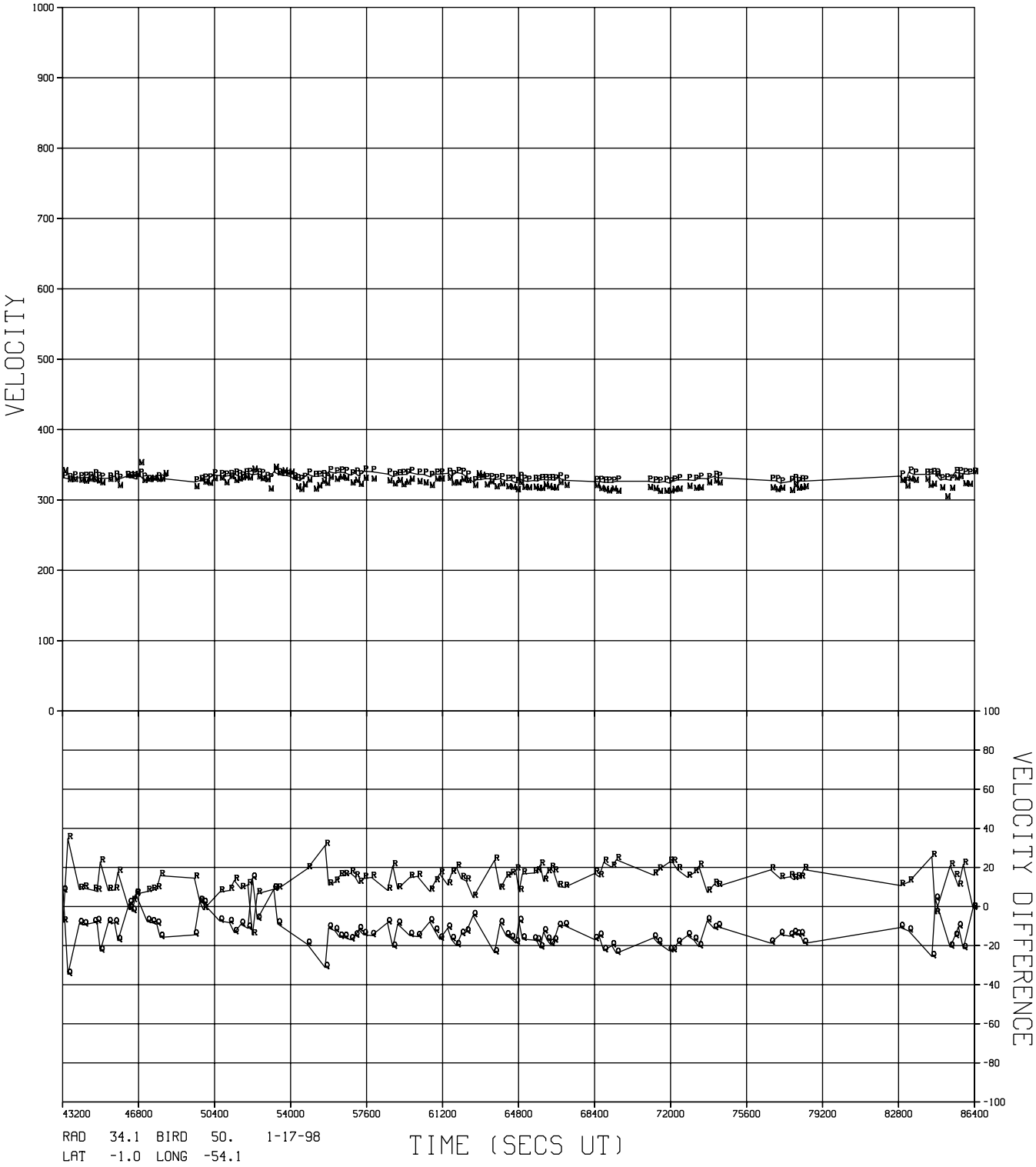

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

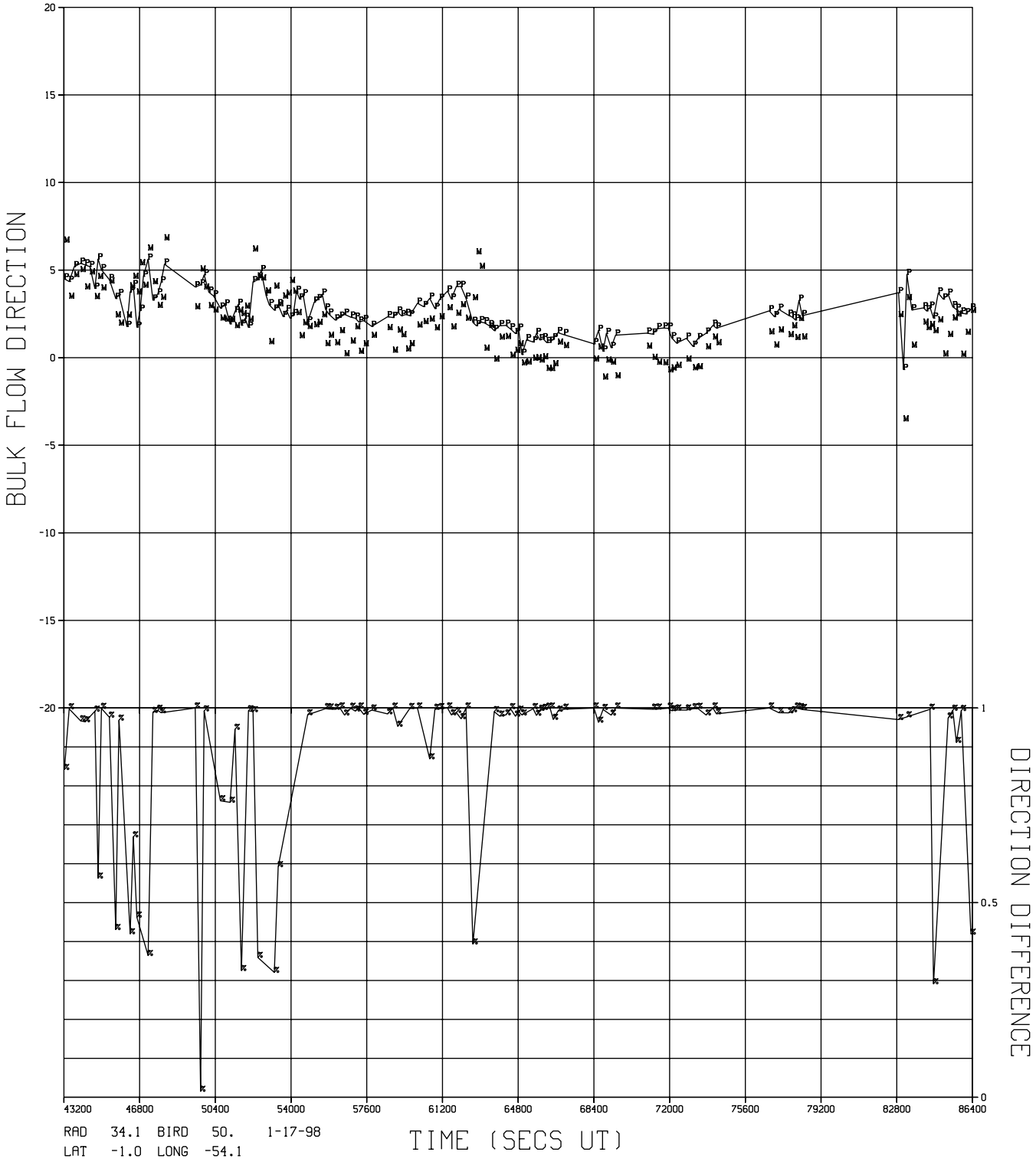

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

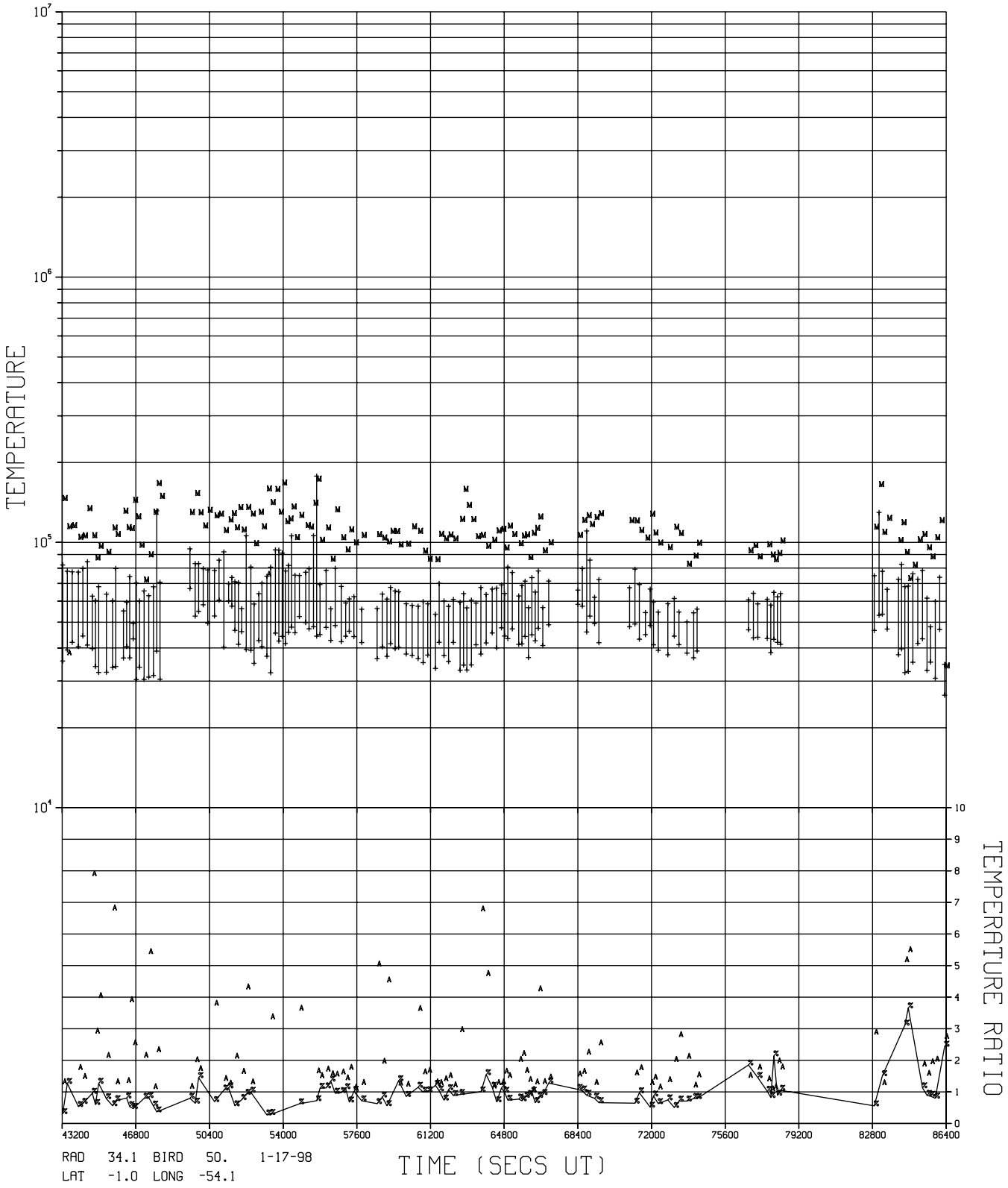

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

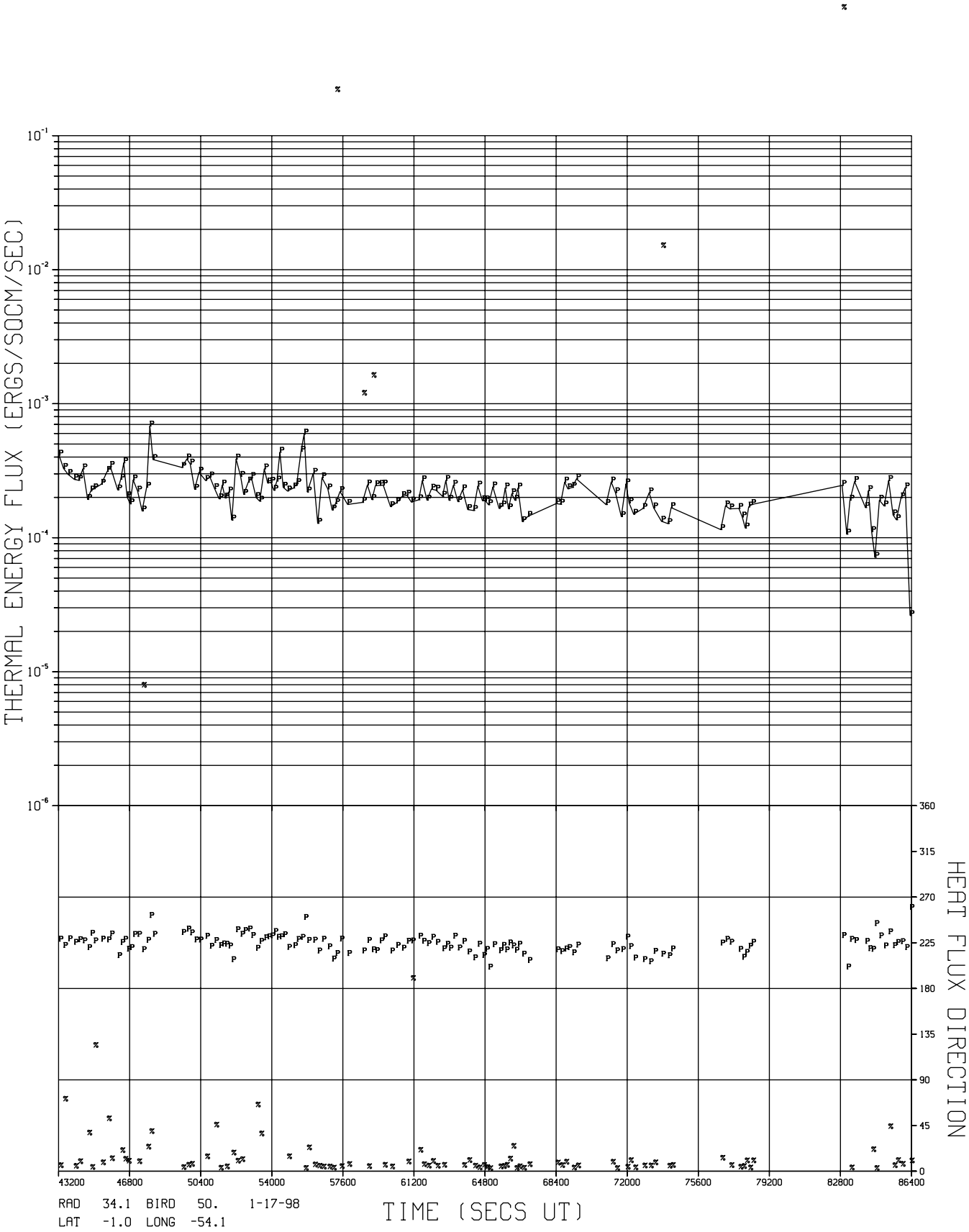

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 34.7 BIRD 50. 1-17-98
LAT -9.5 LONG -64.4

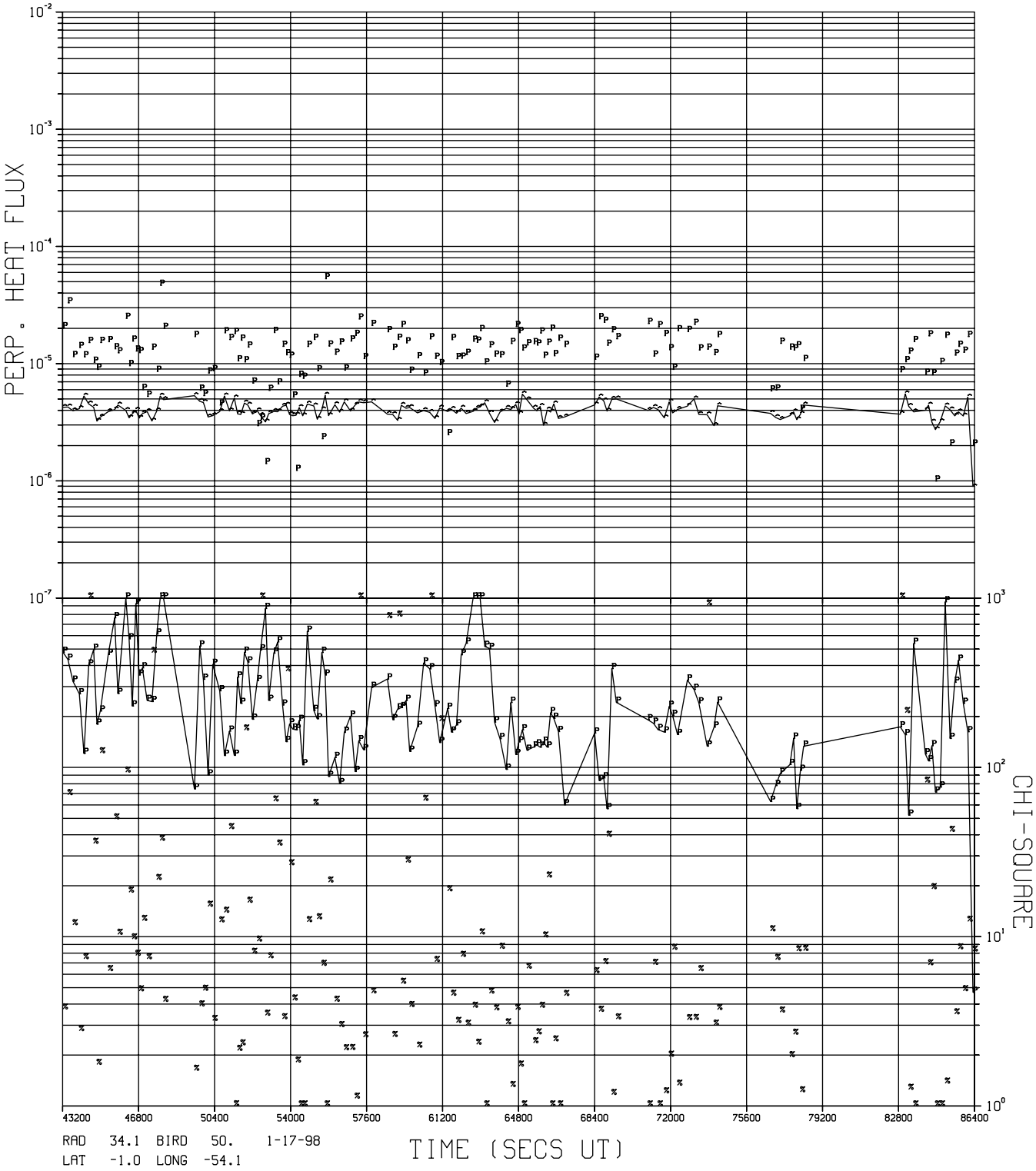

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

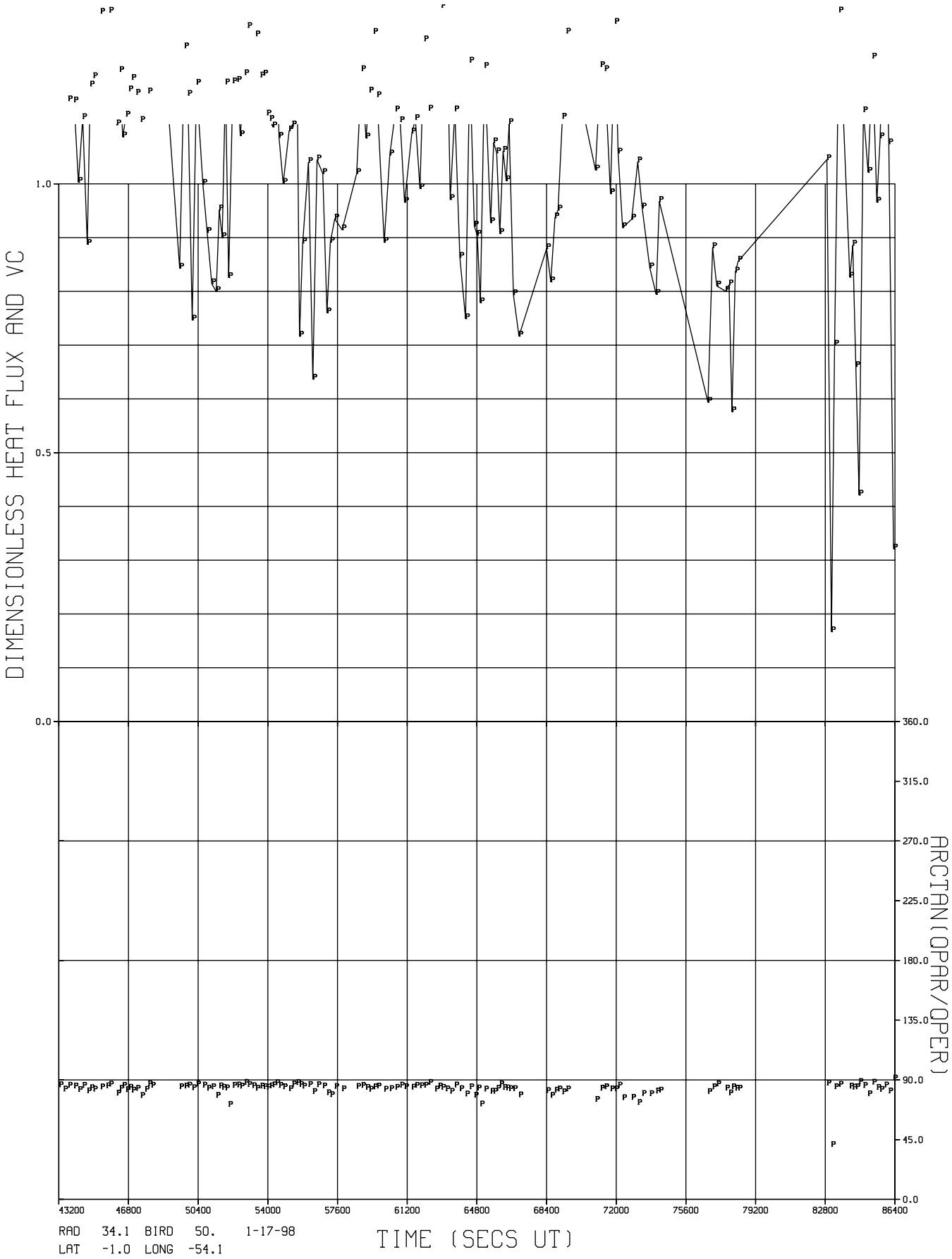

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

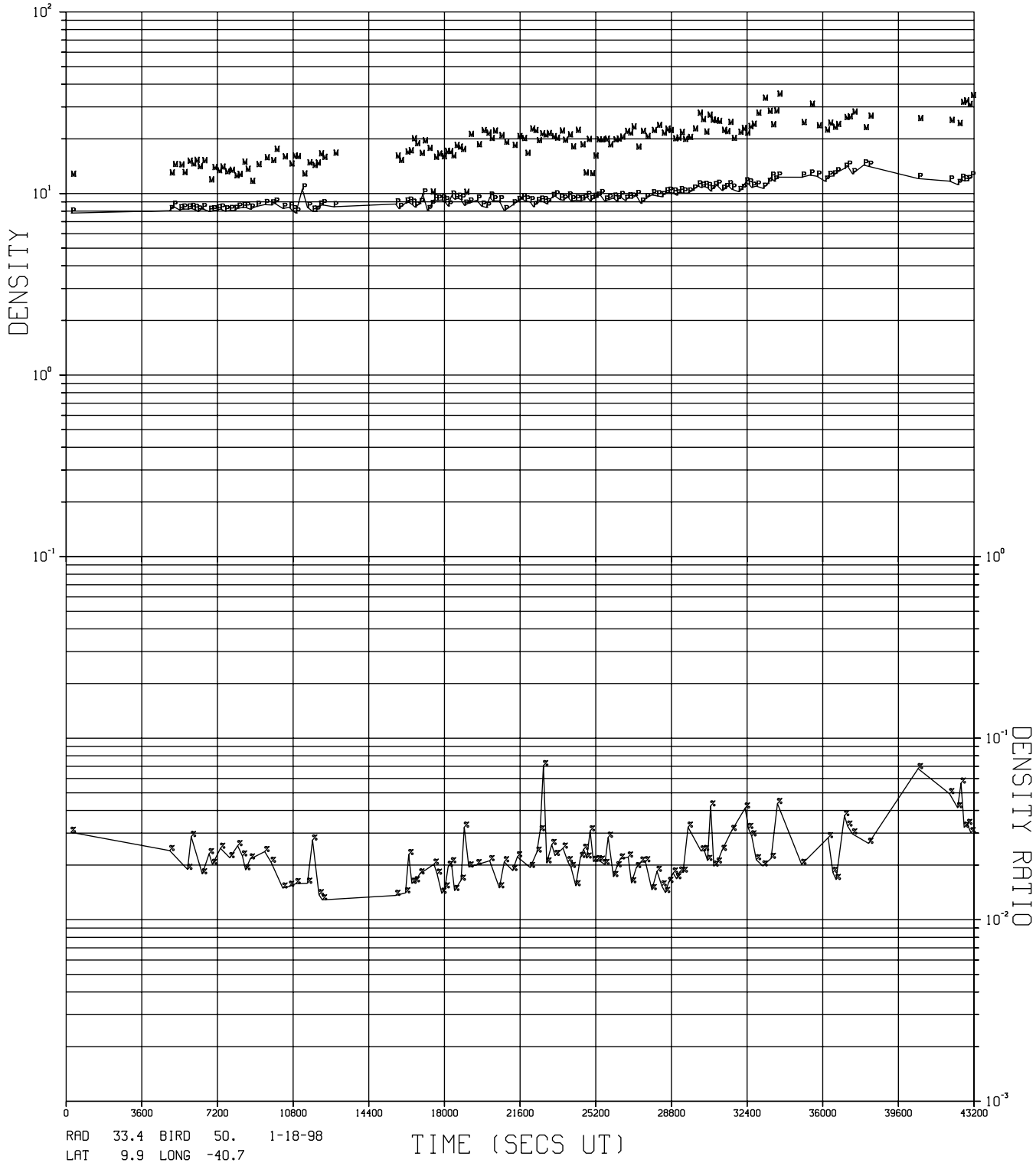

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

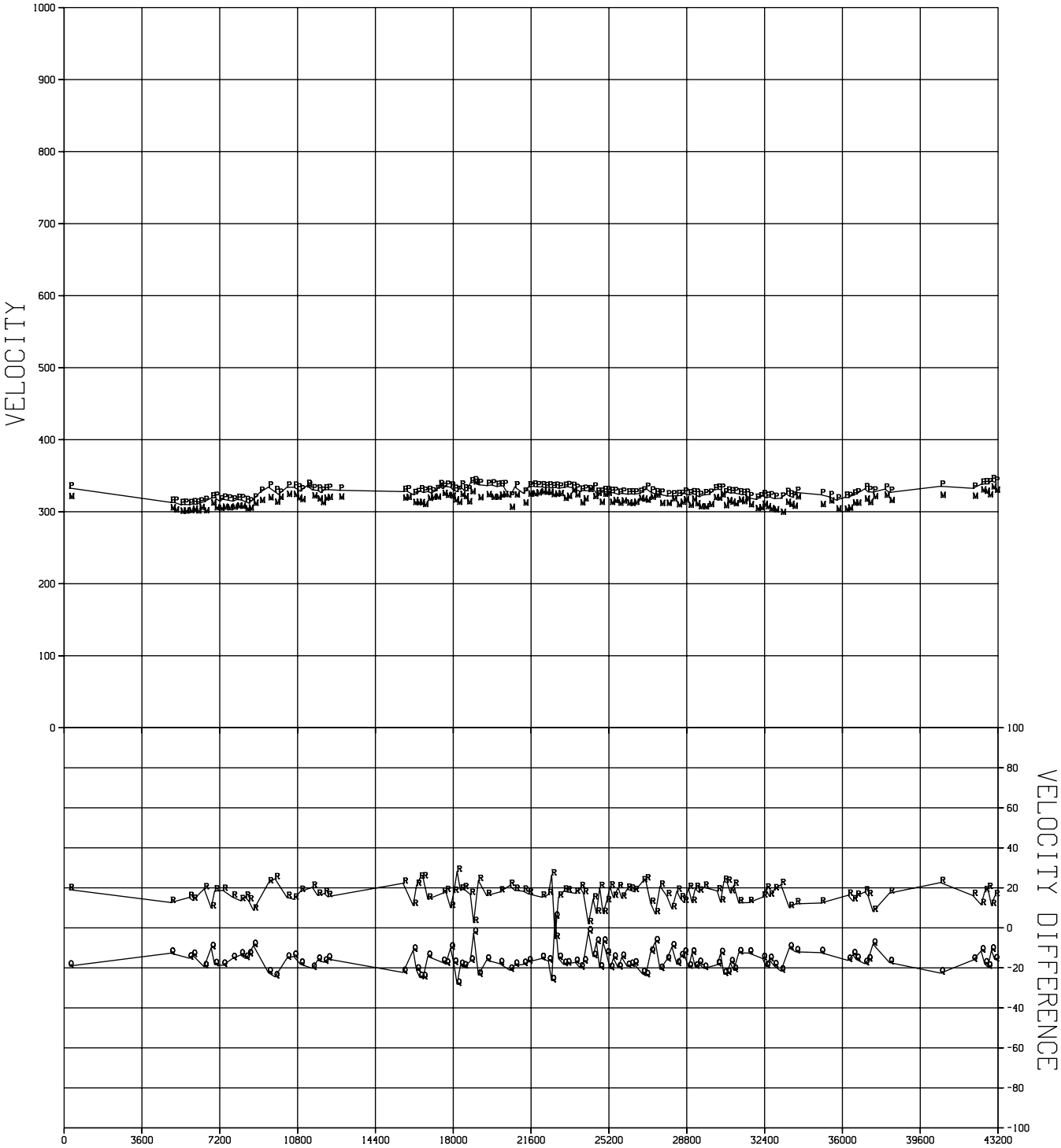

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

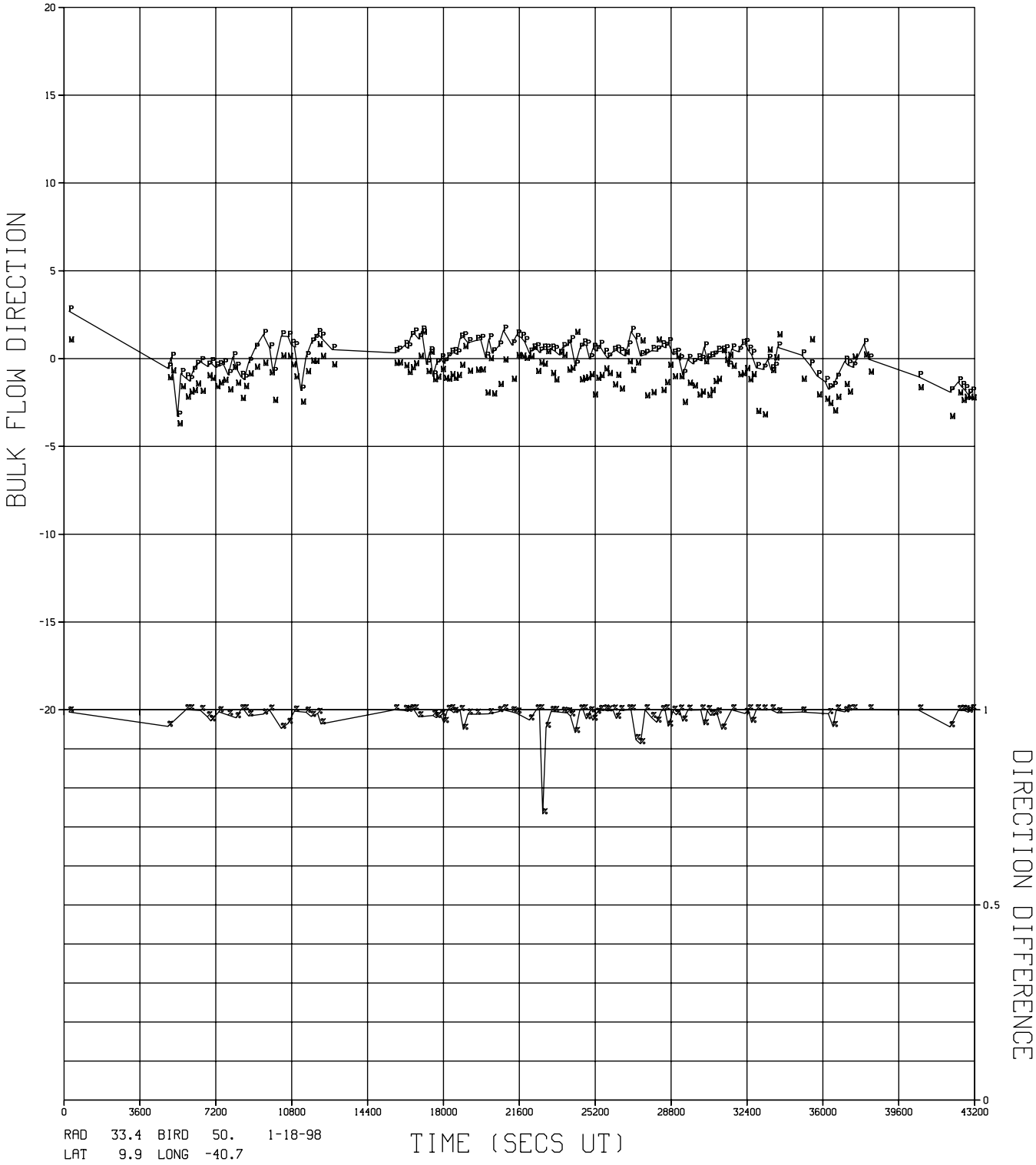

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

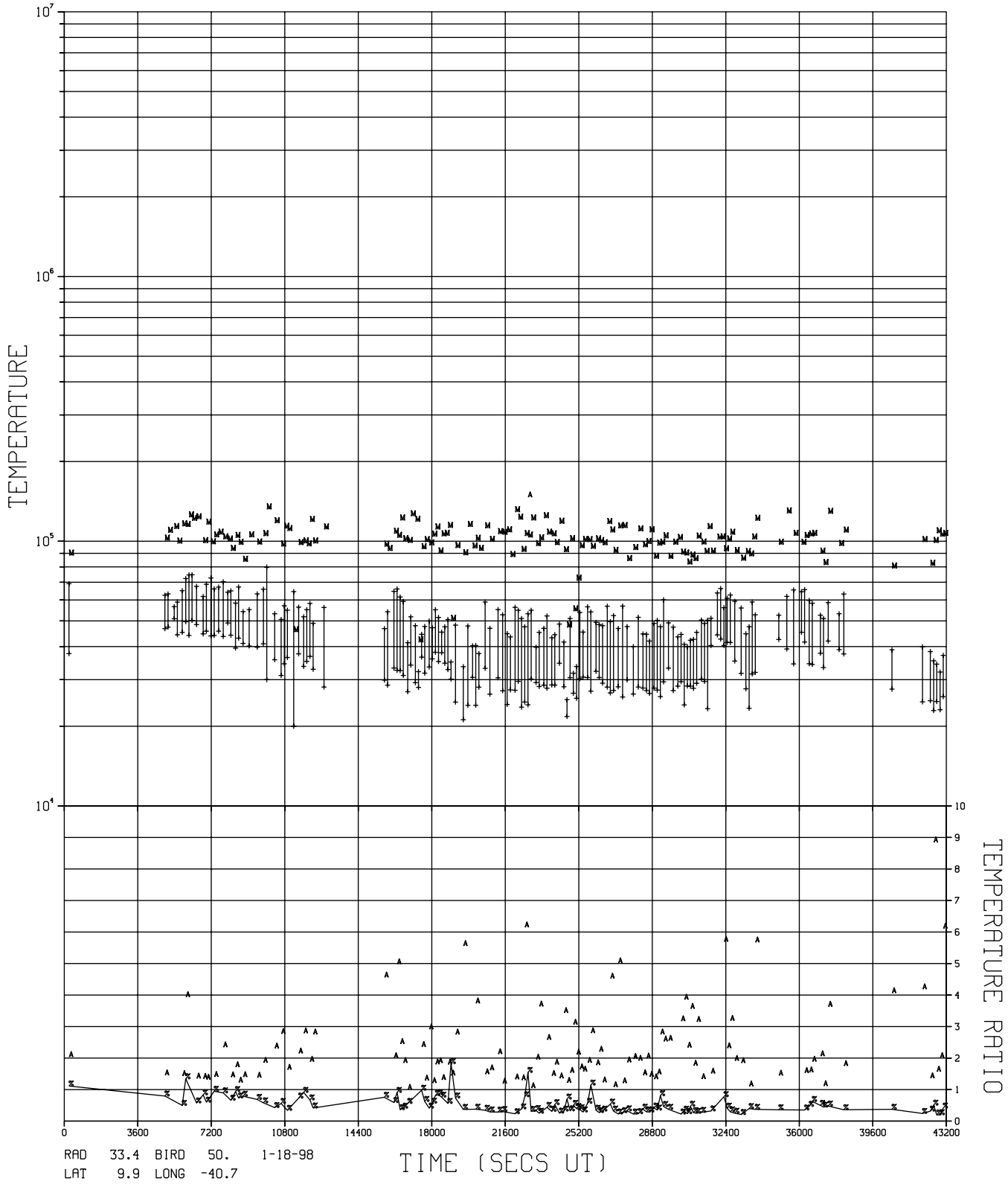

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 34.1 BIRD 50. 1-17-98
LAT -1.0 LONG -54.1

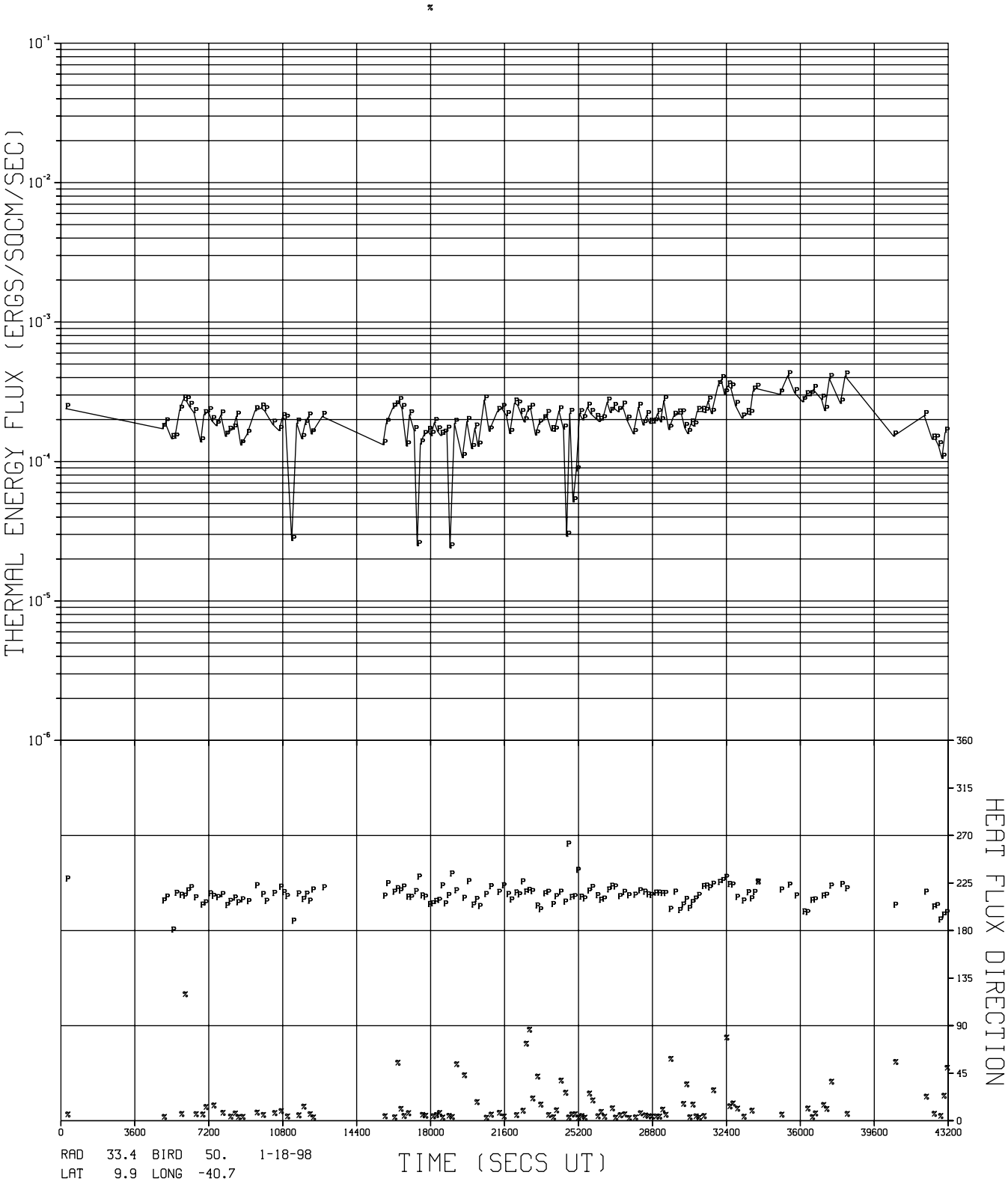

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

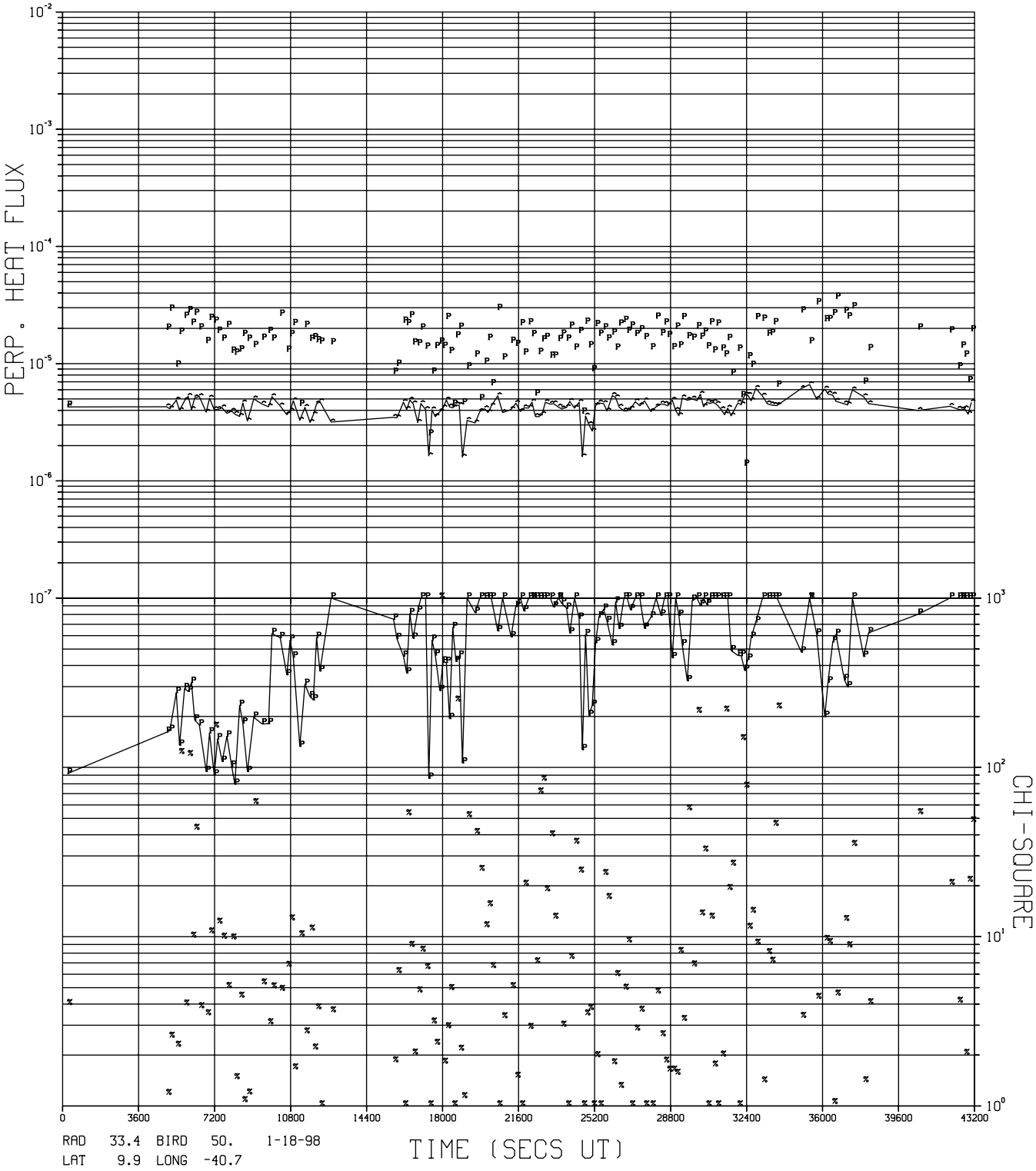


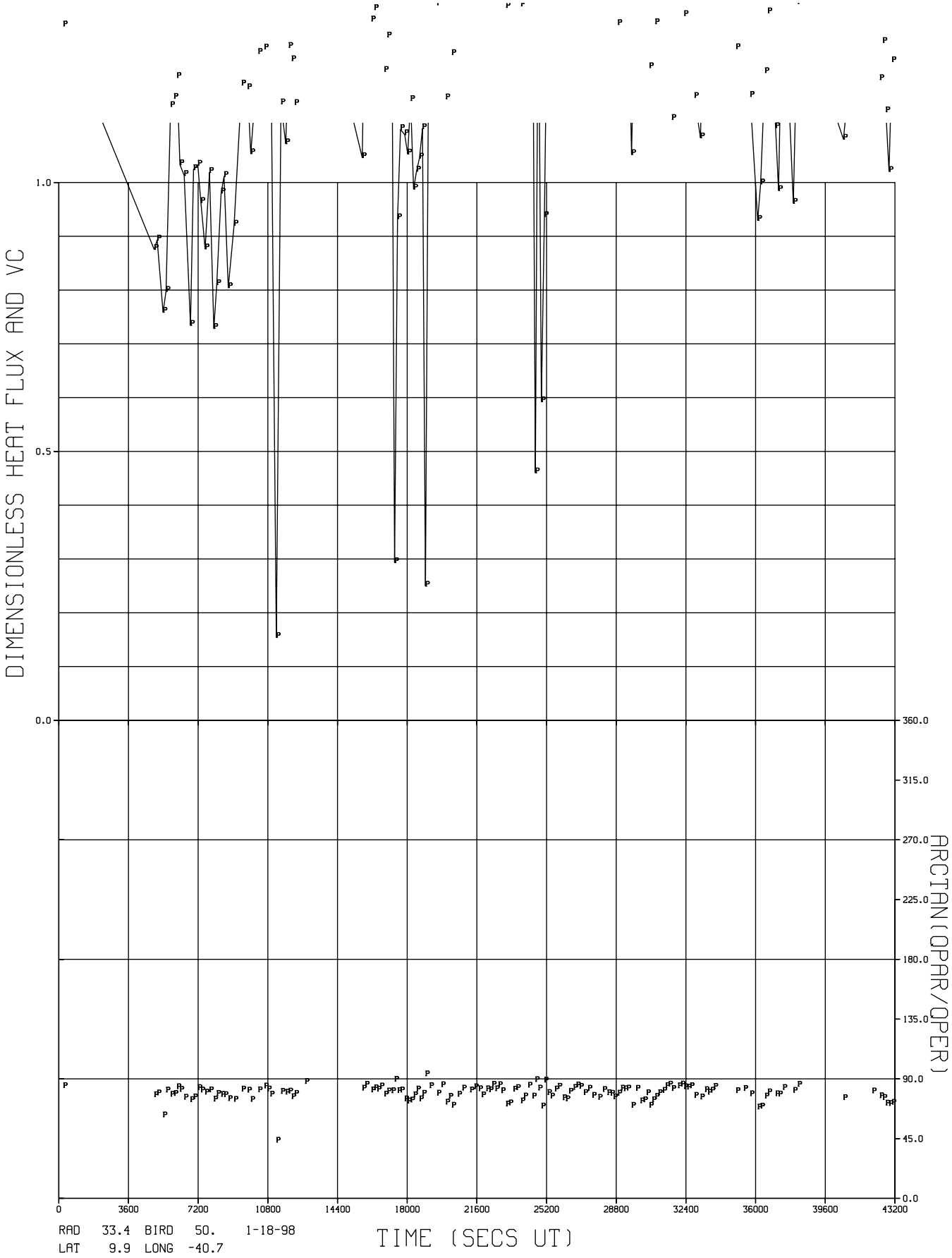
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

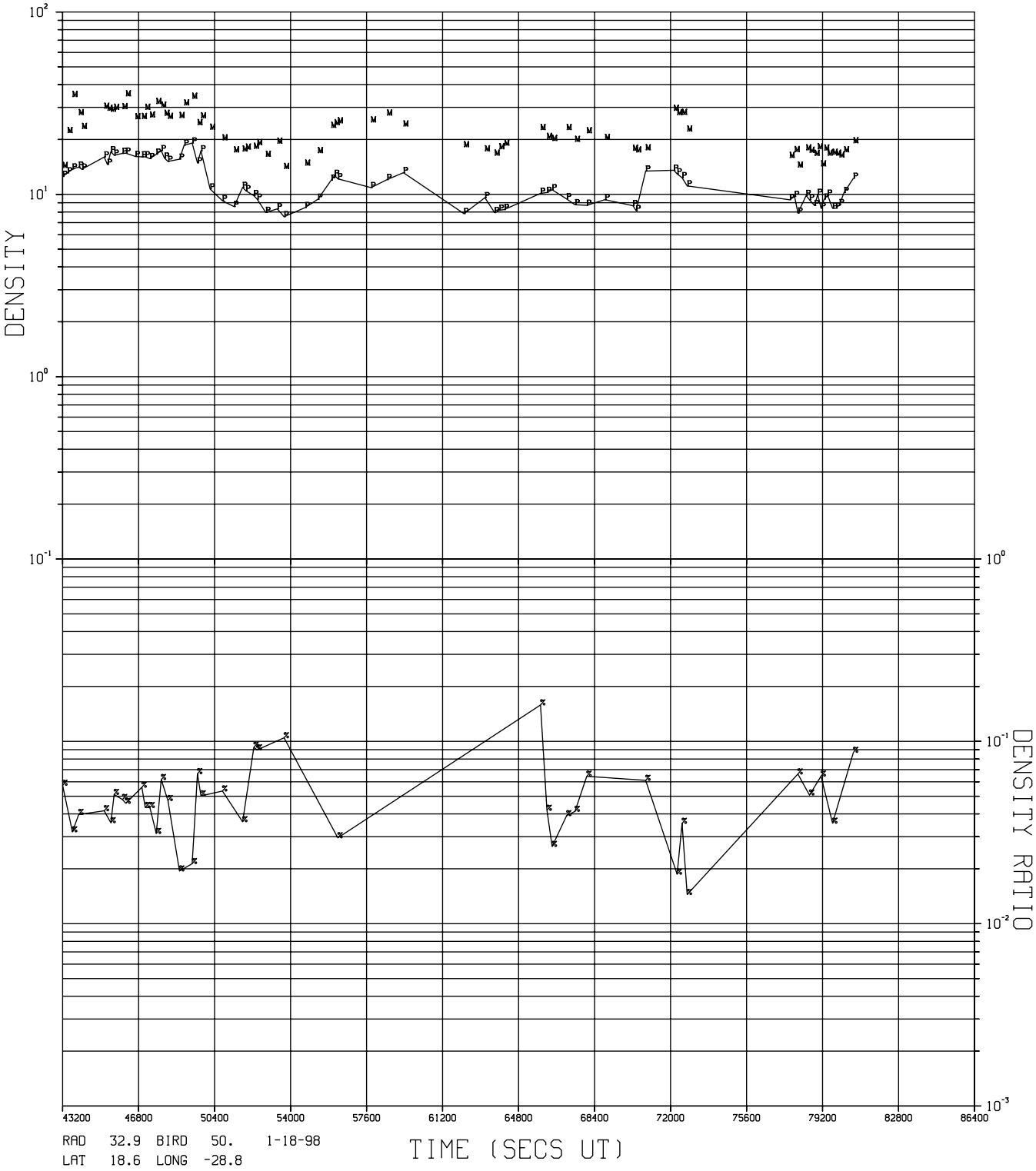

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

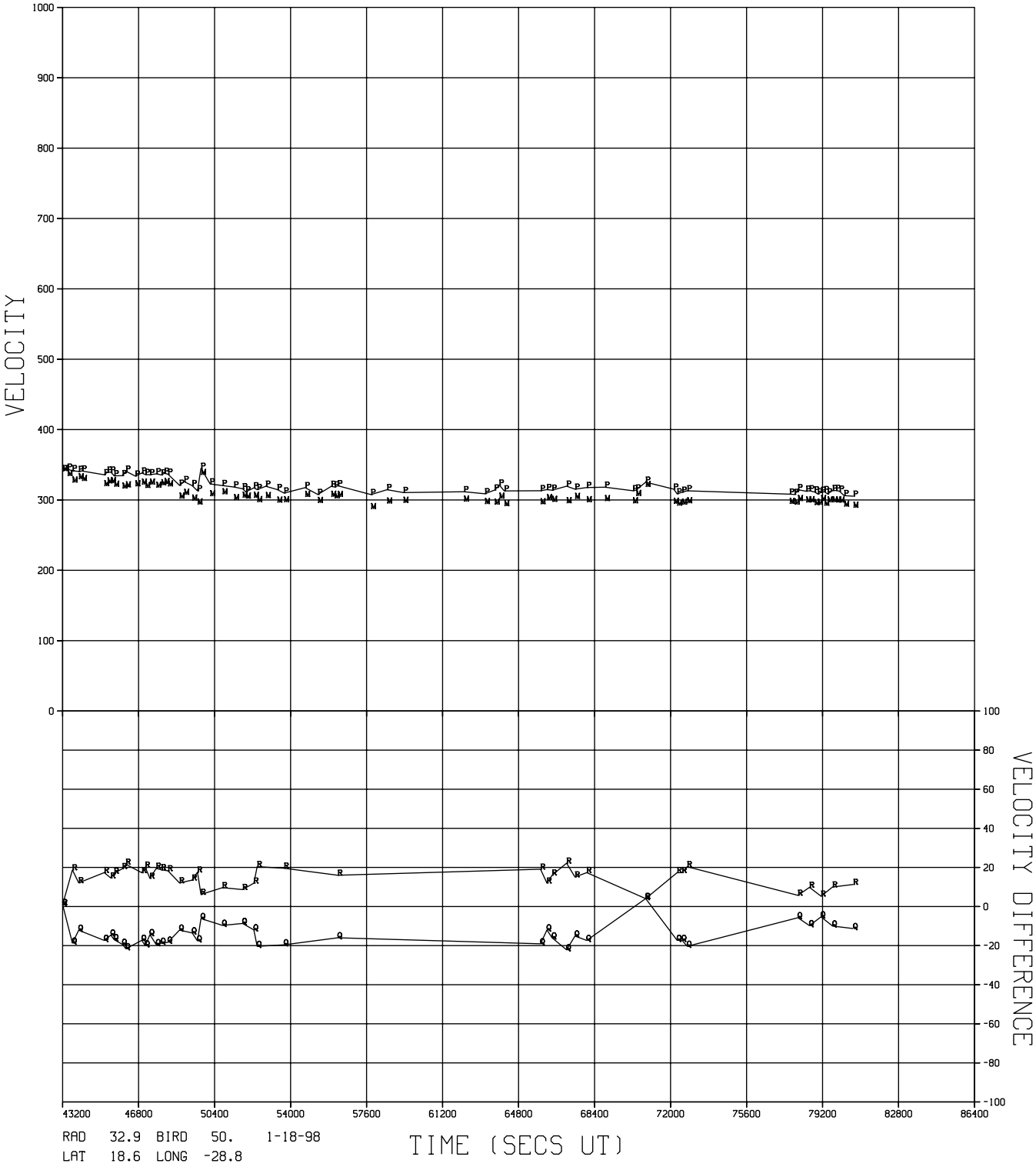

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

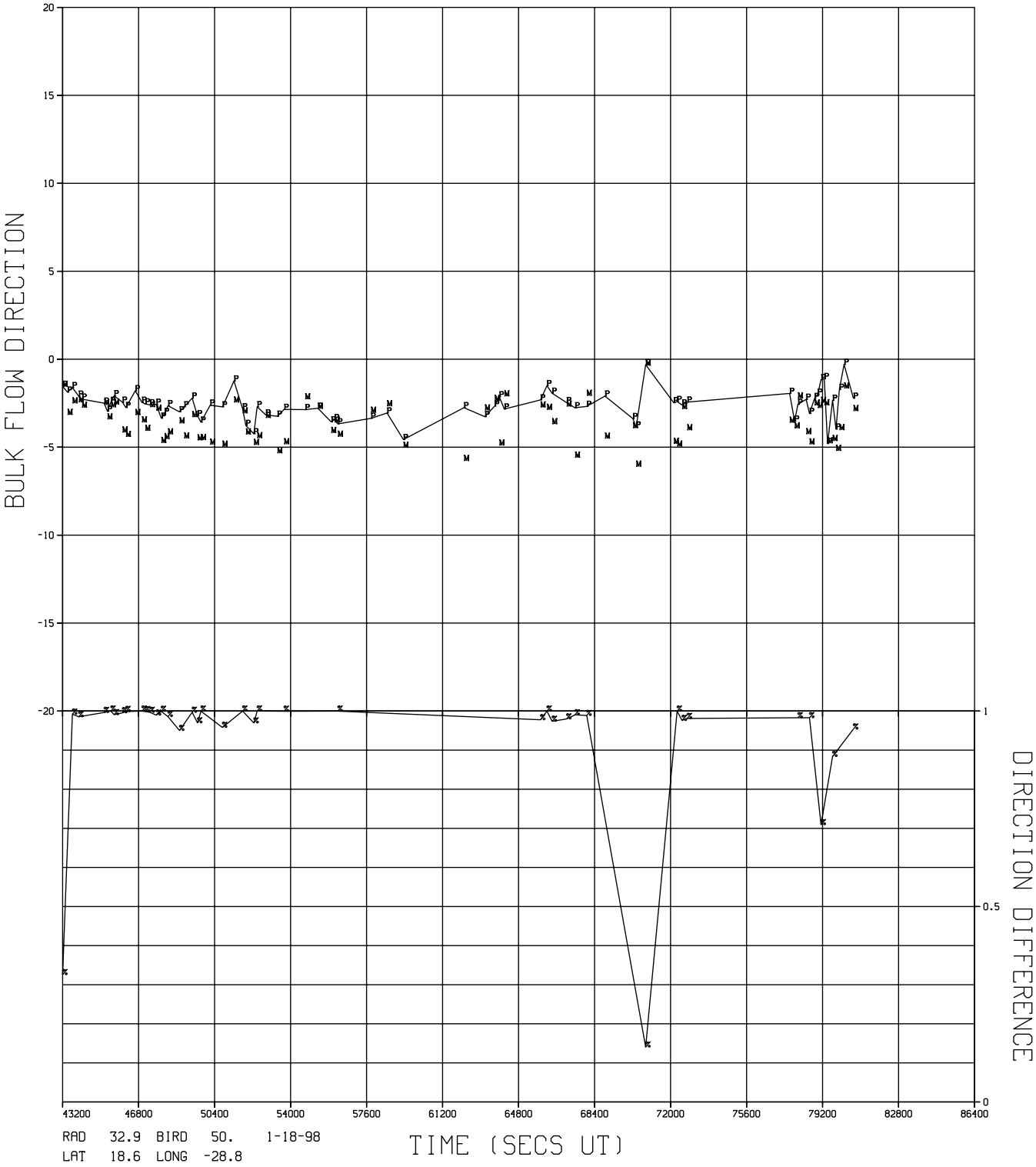

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

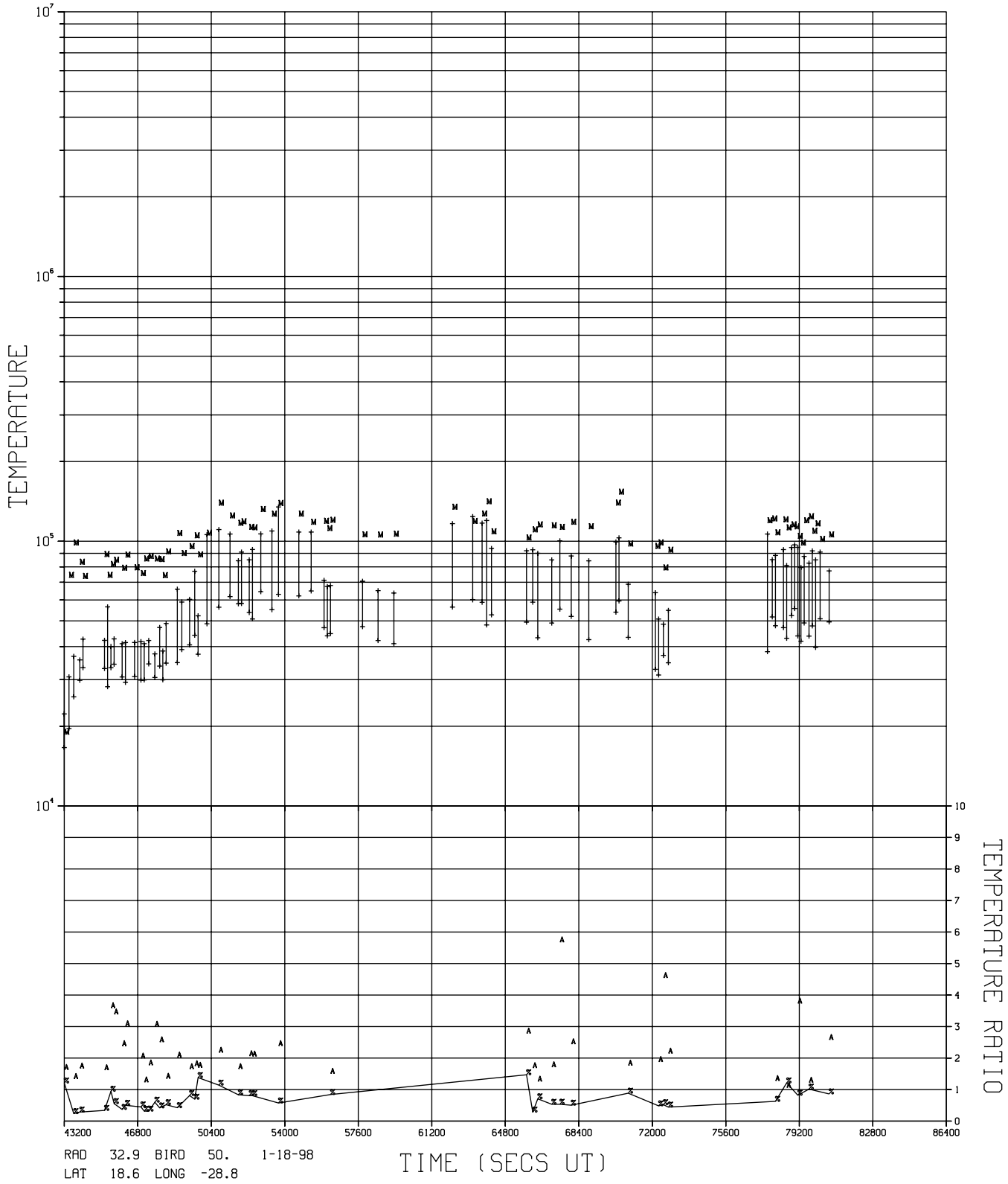

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

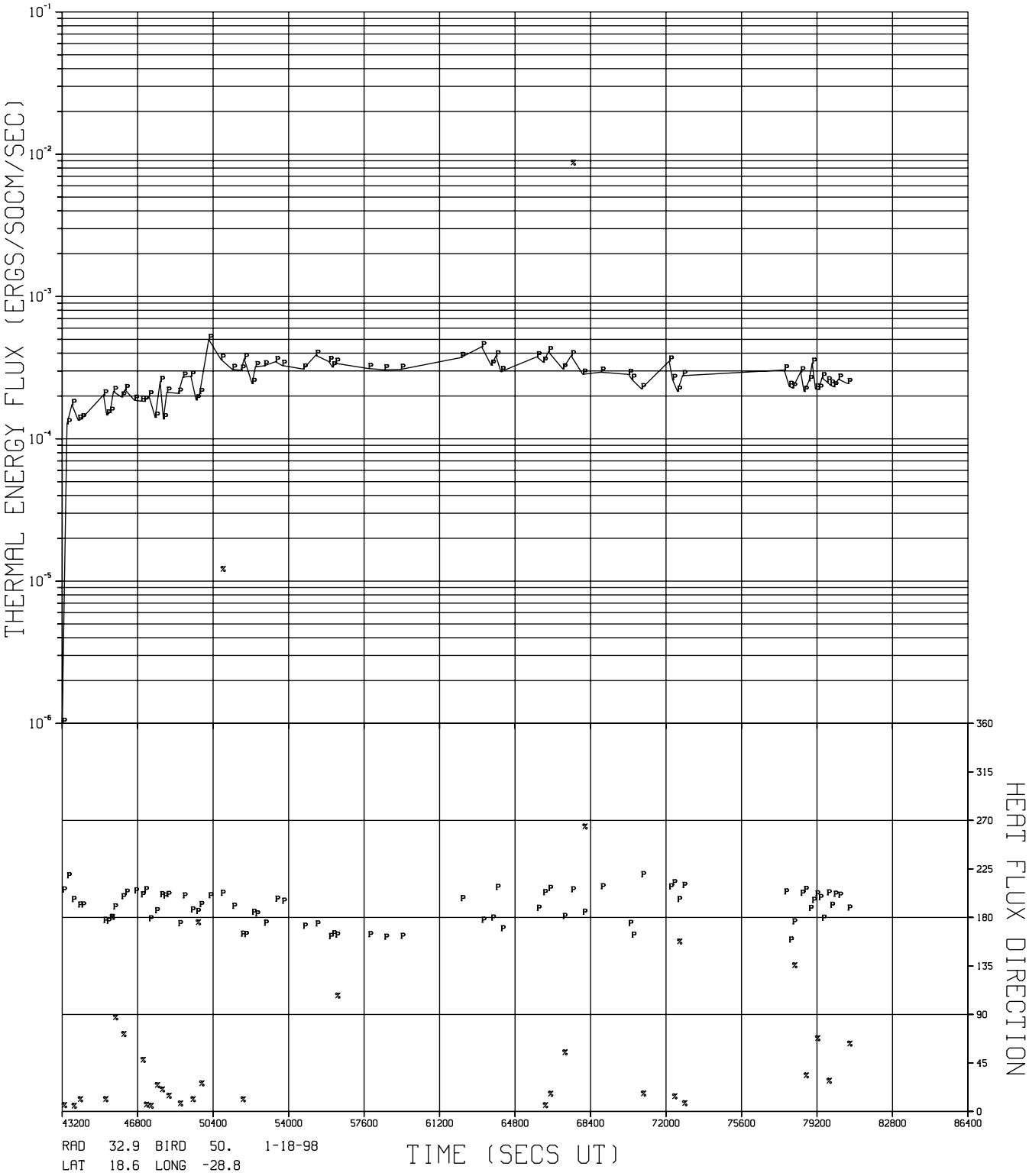

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 33.4 BIRD 50. 1-18-98
LAT 9.9 LONG -40.7

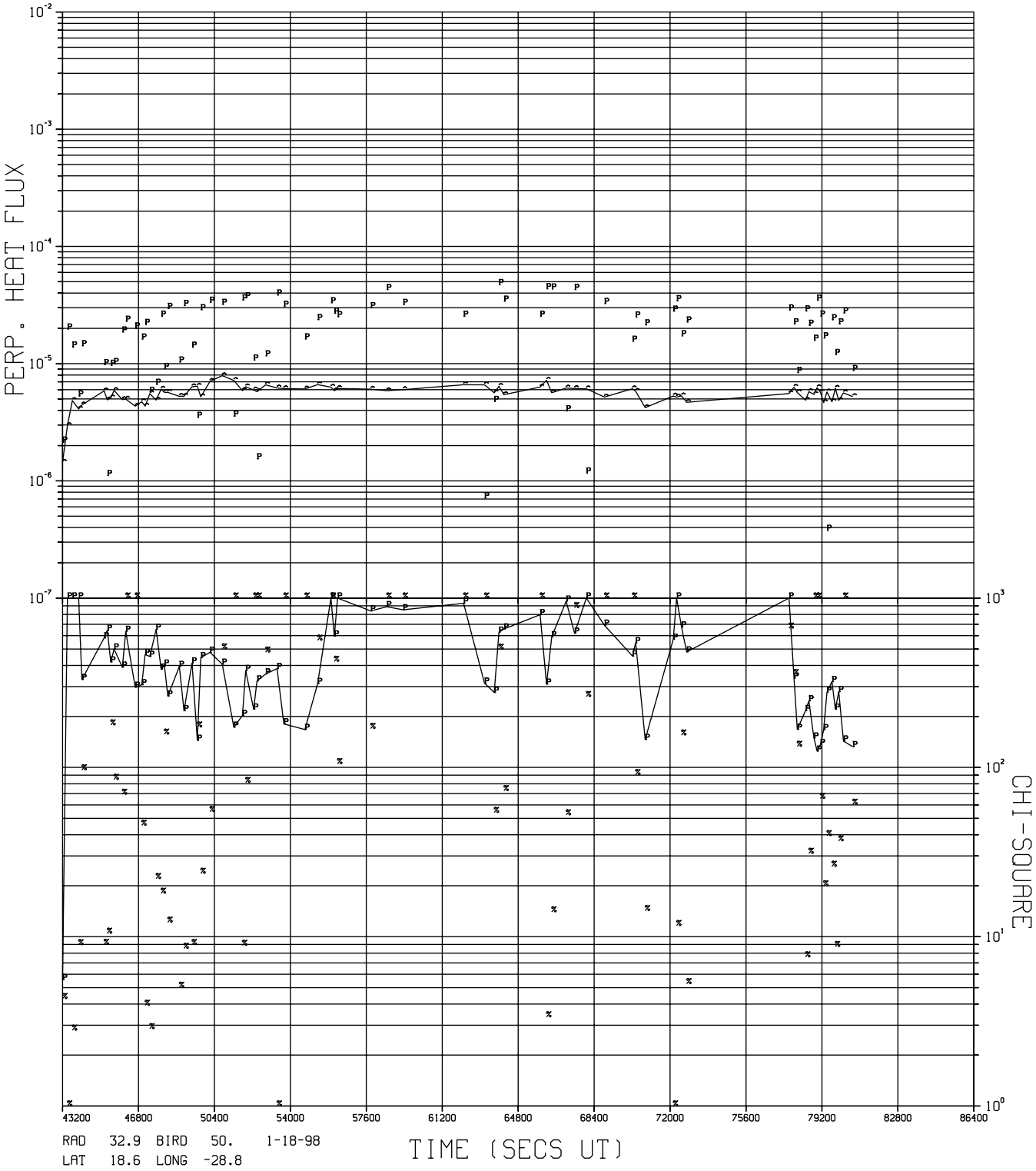

DENSITY
DENSITY RATIO
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

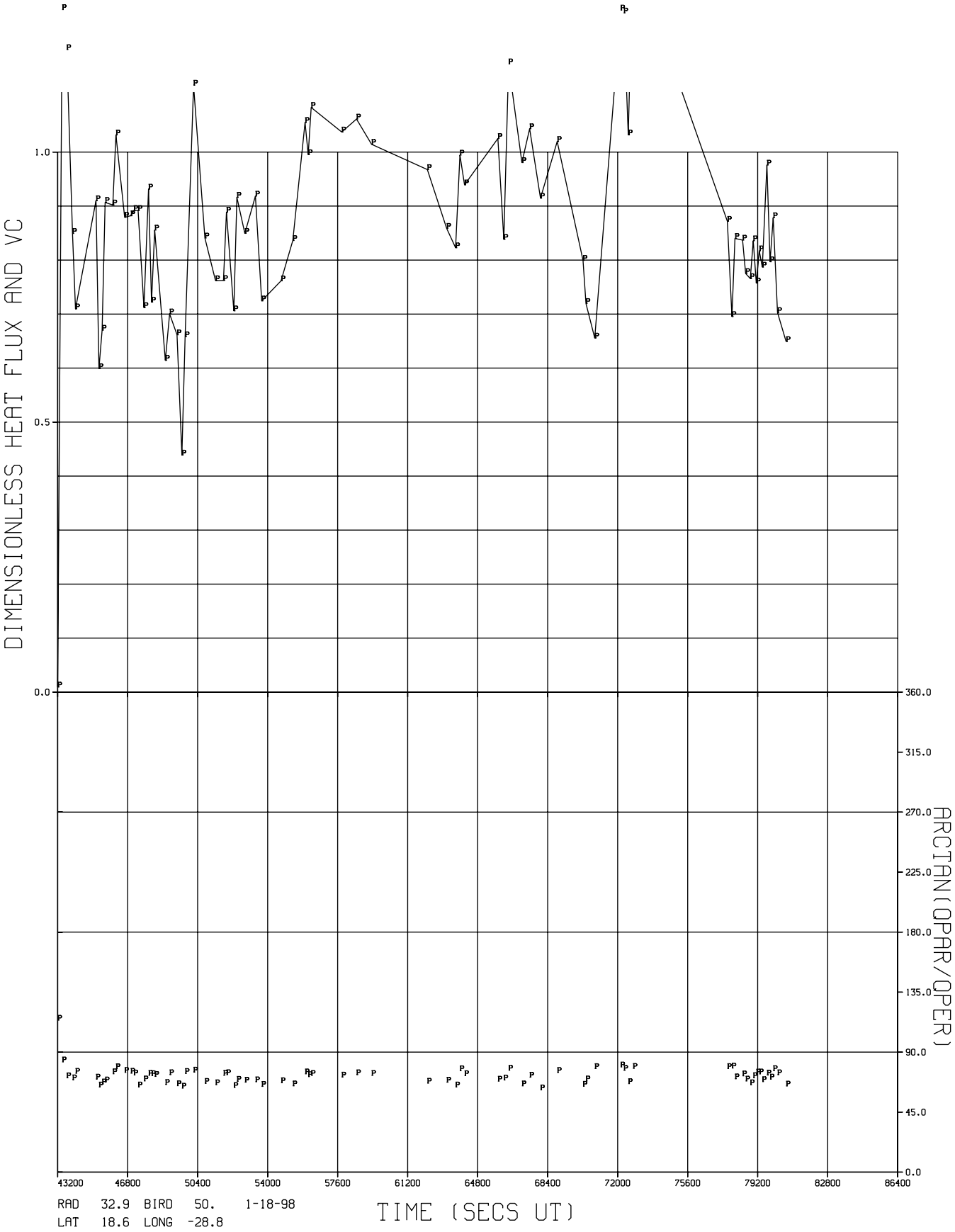

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

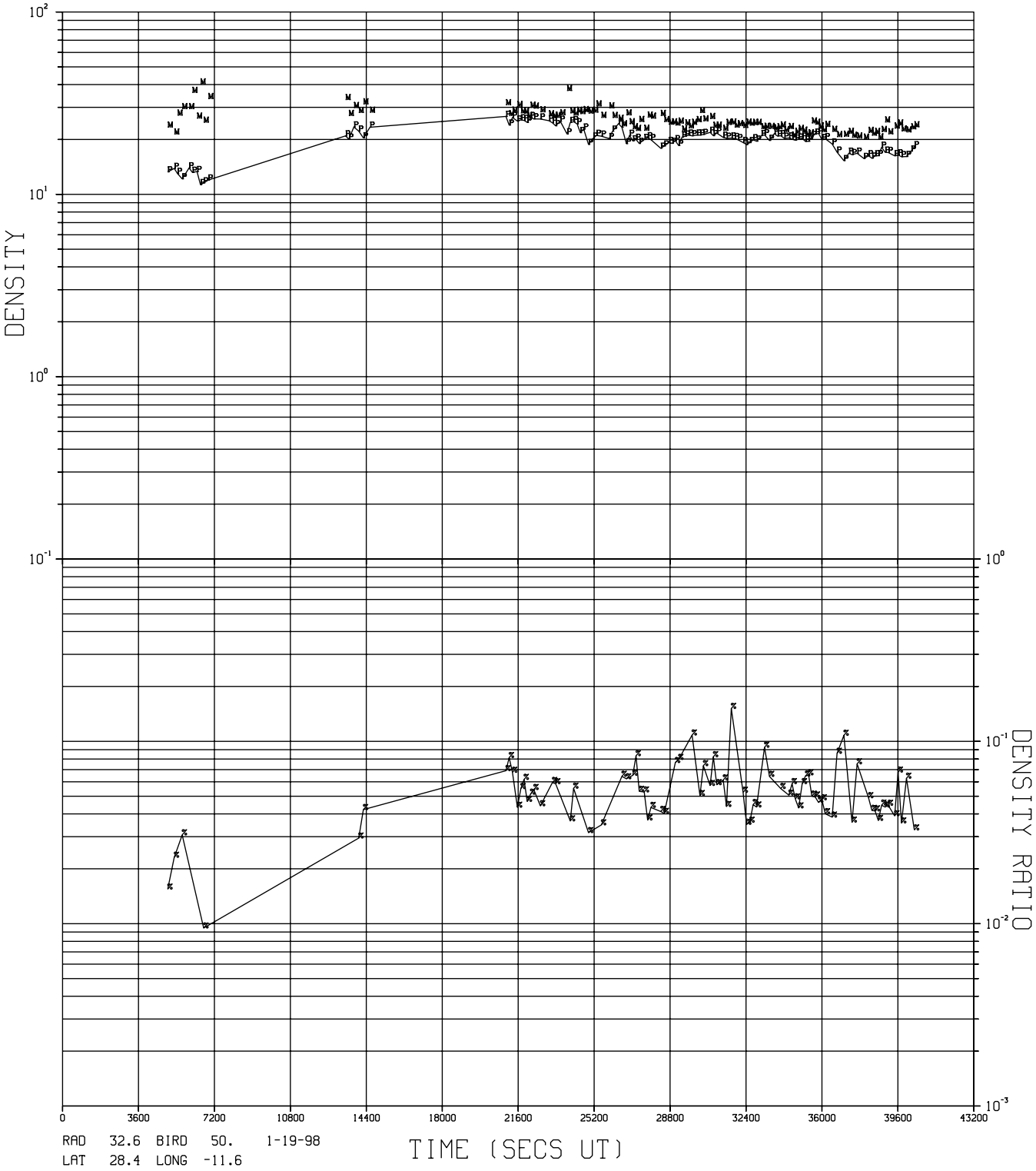

BULK FLOW DIRECTION
DIRECTION DIFFERENCE
TIME (SECS UT)
20
15
10
5
0
-5
-10
-15
-20
1
0.5
0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

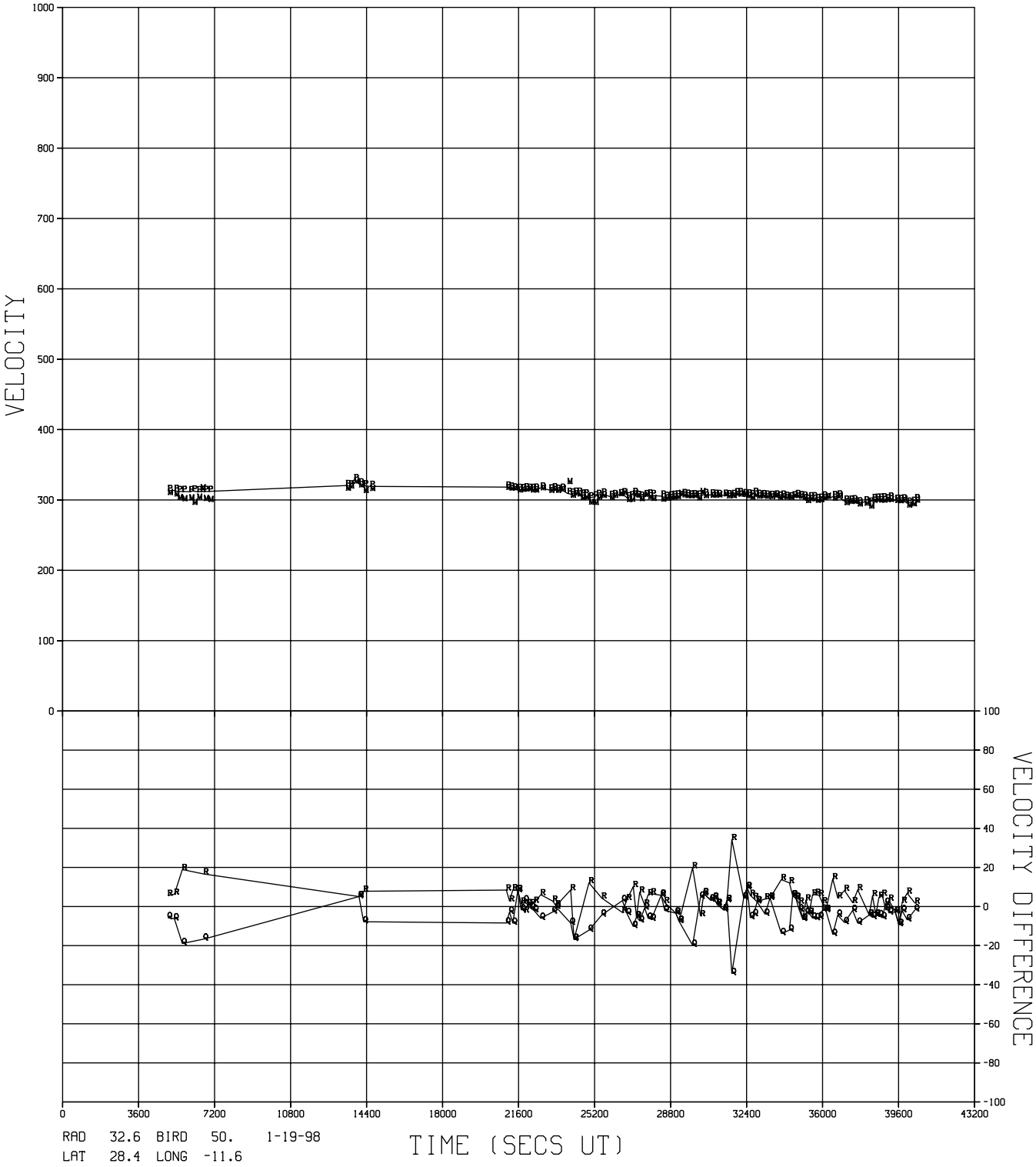

TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

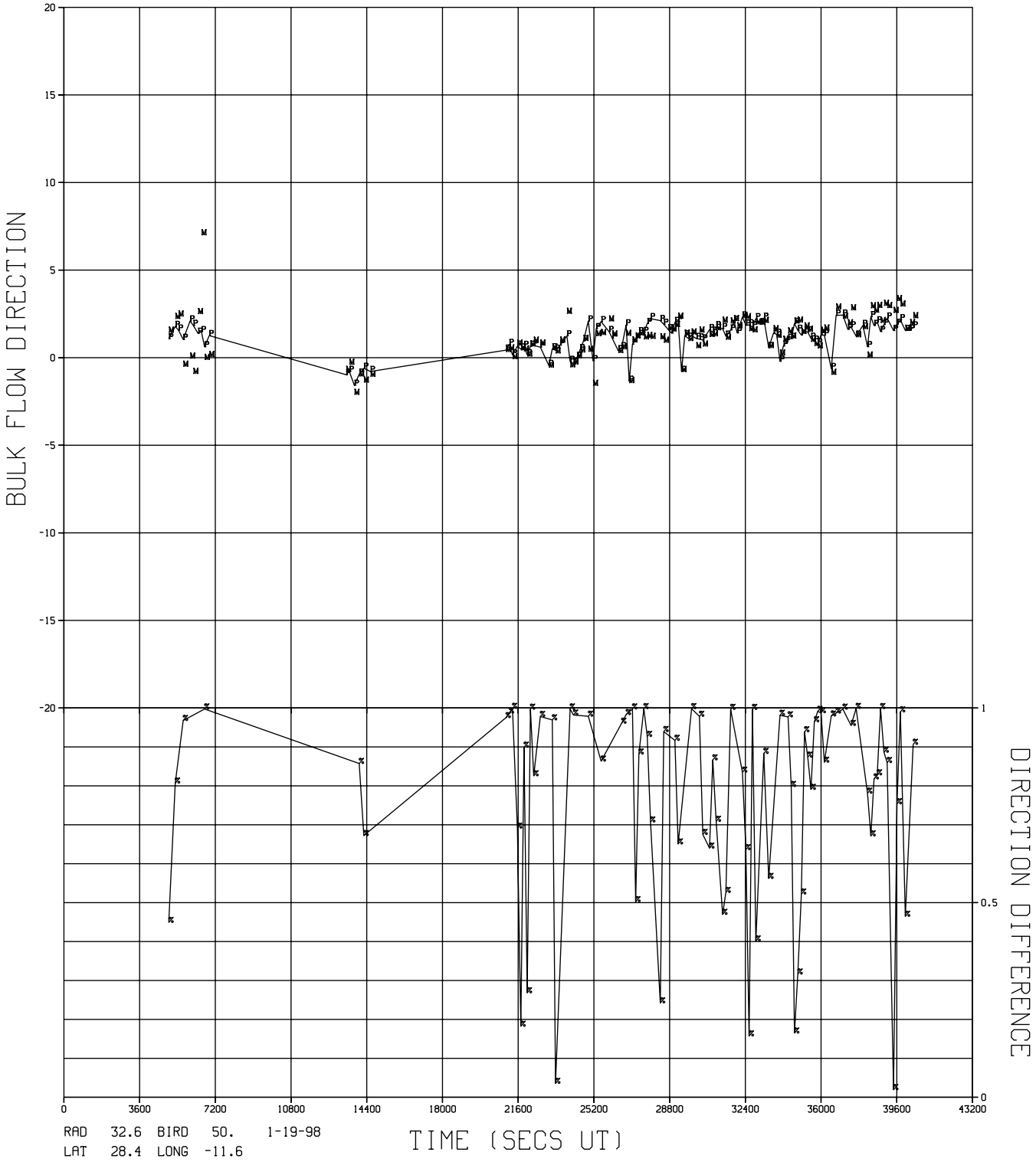

THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

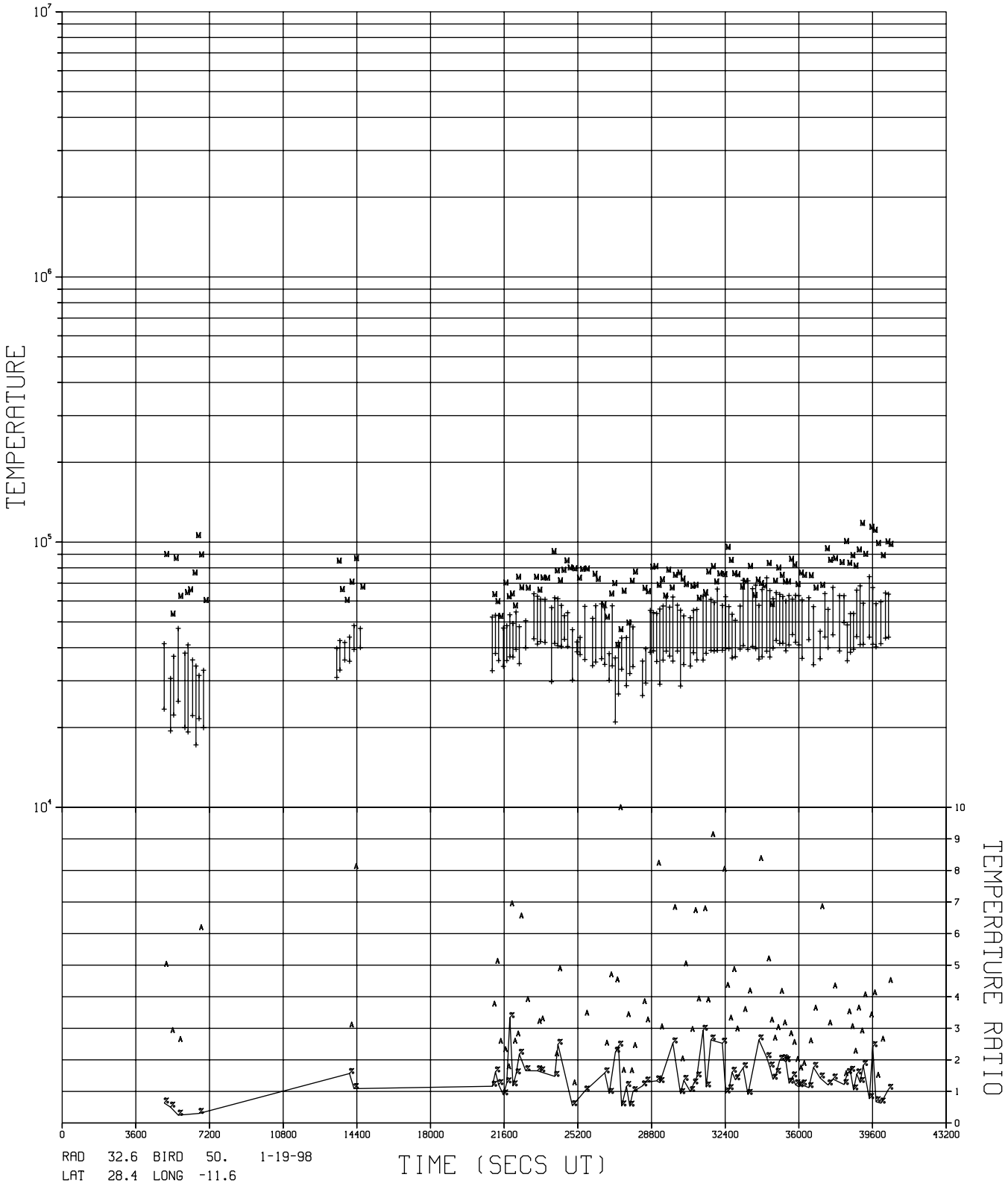

PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

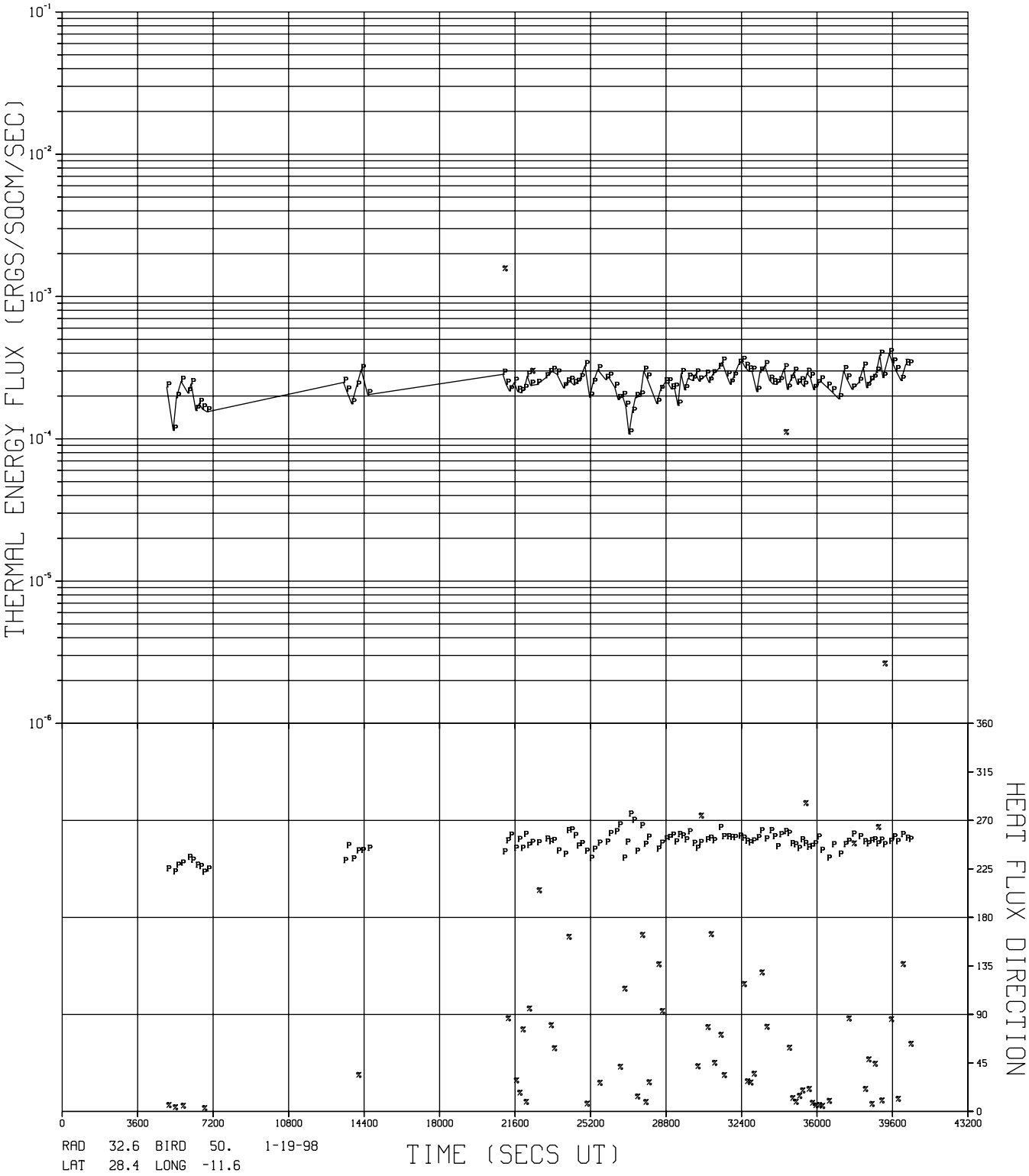

DIMENSIONLESS HEAT FLUX AND VC
1.0
0.5
0.0
ARCTAN(QPAR/QPER)
360.0
315.0
270.0
225.0
180.0
135.0
90.0
45.0
0.0
43200
46800
50400
54000
57600
61200
64800
68400
72000
75600
79200
82800
86400
TIME (SECS UT)
RAD 32.9 BIRD 50. 1-18-98
LAT 18.6 LONG -28.8

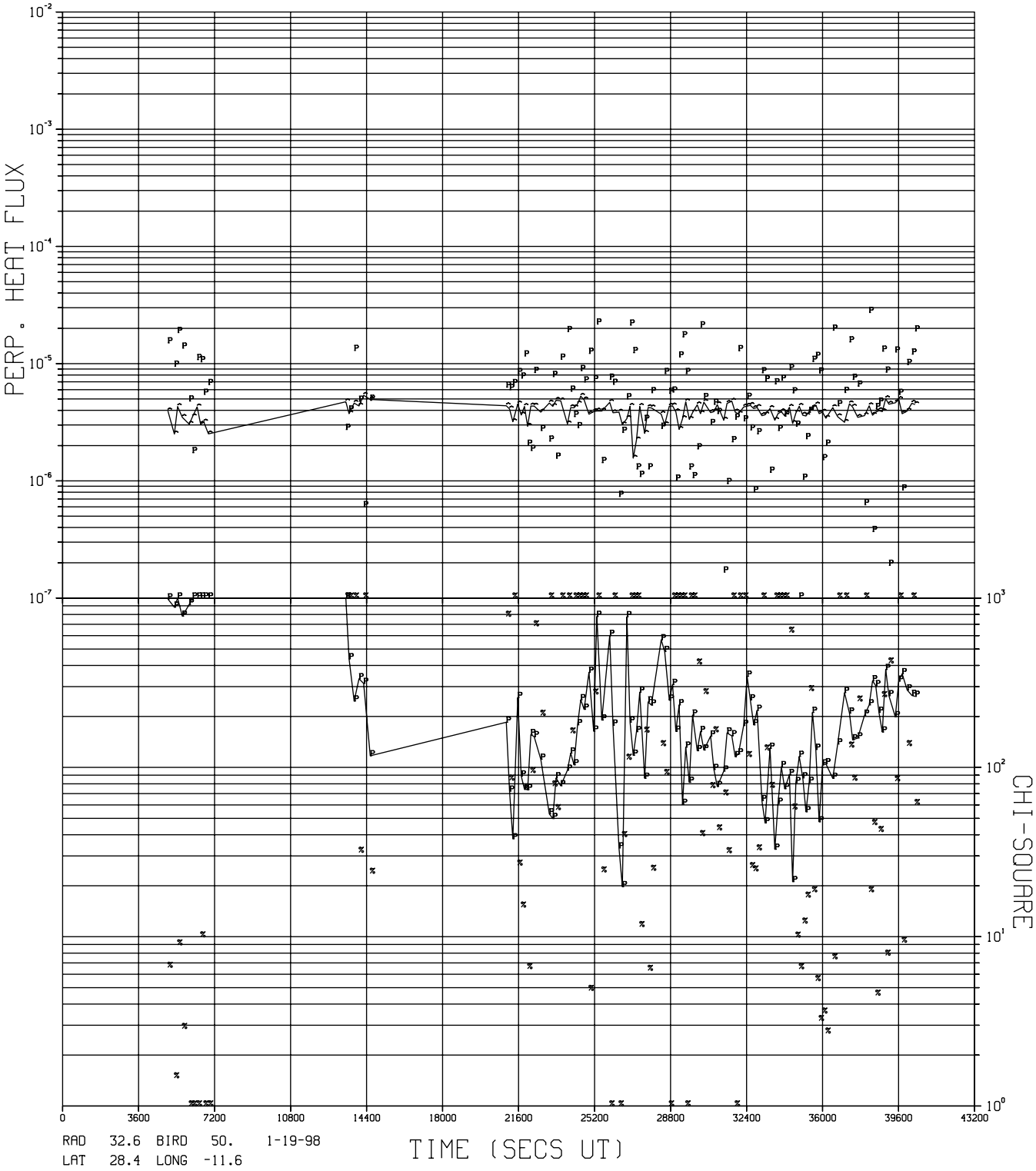

DENSITY
DENSITY RATIO
TIME (SECS UT)
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6

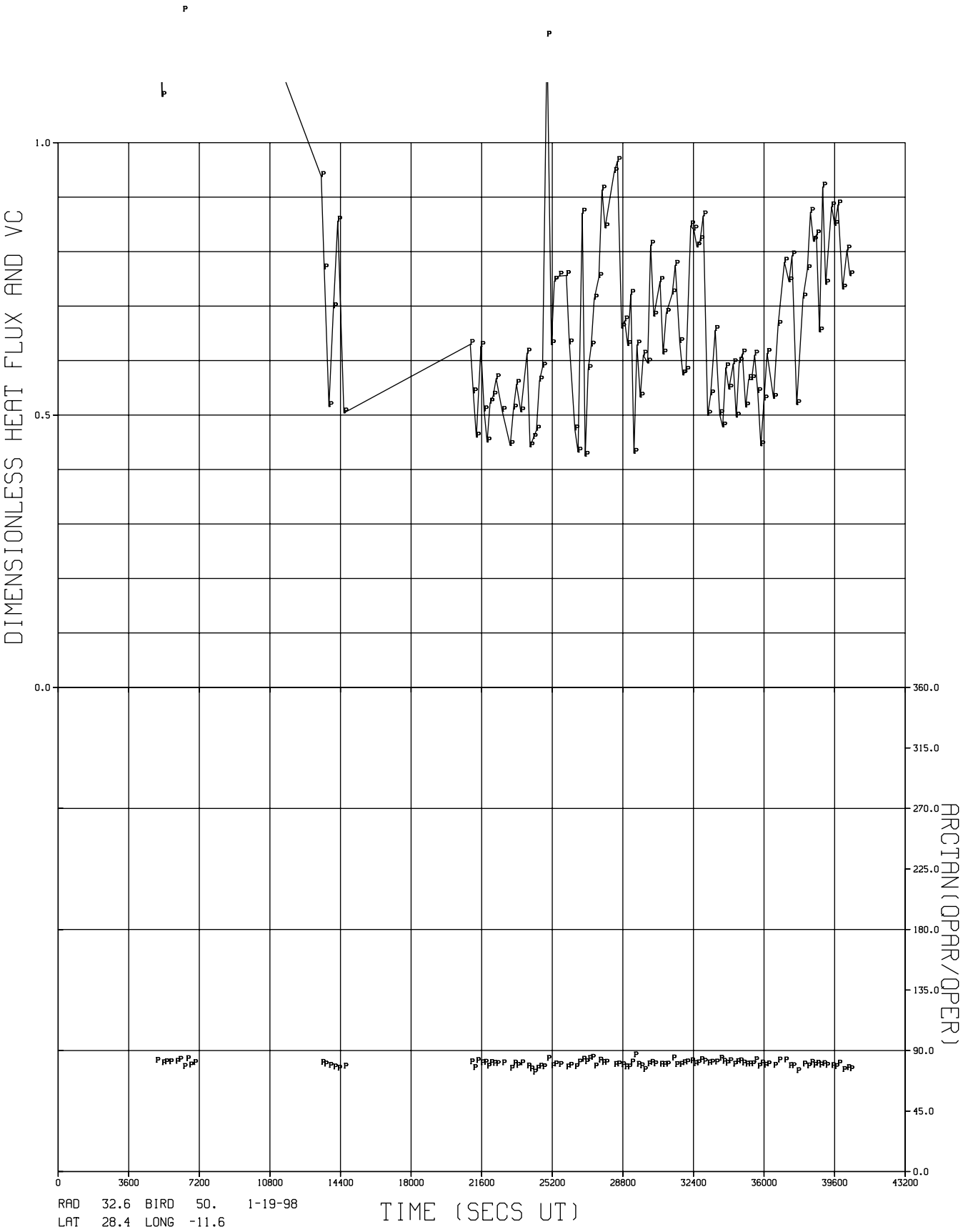

VELOCITY
VELOCITY DIFFERENCE
TIME (SECS UT)
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6


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 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6


TEMPERATURE
TEMPERATURE RATIO
TIME (SECS UT)
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6


THERMAL ENERGY FLUX (ERGS/SQCM/SEC)
HEAT FLUX DIRECTION
TIME (SECS UT)
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6


PERP. HEAT FLUX
CHI-SQUARE
TIME (SECS UT)
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6


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
0
3600
7200
10800
14400
18000
21600
25200
28800
32400
36000
39600
43200
TIME (SECS UT)
RAD 32.6 BIRD 50. 1-19-98
LAT 28.4 LONG -11.6