

APPENDIX C
Measured Data From Each Test Site

Summary for all tests

page C-2

Detailed data for each site

page C-5

TABLE C-1
Summary of Measured Data From Each Site

C:\qpro\wql\tstat.wql Thermostat Cycling Data as of: 5/7/91 Range: al..o44

Name	House Type	Test	Avg Temp, F	Avg RH, %	Avg Run Time, %	Avg Temp Dbnd, F	Avg RH Dbnd, %	N=4*Nmax*X*(1-X)		Tavg = a0 + a1*X		
		Duration ,hrs						Nmax	Std Dev	a0	a1	Std Dev
1 Raustad	Block	34.85	76.62	56.48	61.89%	2.93	1.17	3.38	0.1148	74.00	4.29	0.280
2 Henderson	Block	58.15	80.70	54.27	19.30%	3.18	3.32	0.99	0.0649	80.59	0.72	0.220
3 Rudd	Block	109.23	77.47	53.05	22.86%	4.02	3.10	1.75	0.1409	76.80	2.86	0.320
4 Marvin	Block	11.33	76.91	54.55	43.95%	1.66	1.19	4.07	0.2561	75.35	3.56	0.280
5 Holder	Block	13.17	82.14	49.60	31.35%	3.04	1.05	2.87	0.0451	81.81	1.05	0.050
6 Sherwin	Block	110.05	79.83	66.37	32.07%	0.76	1.34	3.33	0.3244	79.61	0.91	0.620
7 Parker	Block	91.37	79.94	60.65	27.08%	4.66	1.06	2.37	0.4341	80.44	-2.06	0.760
8 Shirey	Apt	45.20	81.95	63.33	37.08%	0.88	0.35	2.46	0.2394	80.58	3.71	0.400
9 Redmond	Block	89.27	76.66	47.97	50.00%	1.92	1.49	2.37	0.5660	76.19	0.9	1.420
10 Faireyl	Frame	65.28	77.40	58.46	43.88%	1.64	1.54	2.46	0.1010	76.16	2.82	0.660
11 Fairey2	Frame	69.49	77.77	54.85	51.44%	1.58	1.43	2.46	0.1240	76.33	2.86	0.390
12 Kettles	Frame	70.42	73.59	49.80	62.29%	3.22	0.91	2.61	0.0850	70.97	4.29	0.300
13 Melody	Block	125.30	77.65	56.45	27.41%	1.33	1.59	2.8	0.1860	77.03	2.15	1.040
14 Dhere	Block	48.23	81.66	59.89	31.36%	0.80	1.06	3.33	0.2770	80.64	2.11	0.630
15 Dutton	Frame	48.2	74.69	70.03	51.10%	1.85	7.29	2.20	0.1588	73.50	2.38	0.440
16 Dernier	Block	45.27	78.92	63.53	63.52%	2.36	1.16	2.58	0.1309	77.37	2.39	0.280
17 Vieiral	Block	57.40	76.27	56.77	48.45%	6.71	4.15	0.15	0.0510	78.02	-3.82	0.350
18 Vieira2	Block	71.33	76.82	55.43	39.85%	2.95	0.45	1.74	0.1065	75.47	3.37	0.160
19 Dummer	Block	70.37	78.41	41.36	62.14%	1.03	0.7	3.64	0.1408	75.70	4.43	0.140
20 Raustad2	Block	46.74	79.01	54.90	49.89%	2.20	1.42	3.74	0.2001	76.13	5.78	0.240
21 Goulet	Block	78.08	78.17	55.93	33.26%	1.25	2.88	2.94	0.1897	77.37	2.42	0.290
22 Cummings3	Block	56.95	76.98	50.13	43.14%	2.75	2.38	1.23	0.0806	76.57	0.91	0.270
23 Cummings2	Block	22.16	79.45	49.58	39.29%	2.59	2.14	1.16	0.0649	78.99	1.16	0.130
24 Cummings1	Block	22.52	79.56	50.30	38.14%	2.57	2.4	1.52	0.1037	79.13	1.08	0.260
25 Mellor	Frame	69.58	78.59	60.73	25.67%	2.4	0.25	1.18	0.3972	78.81	-0.71	0.150
26 Walker	Block	28.79	79.33	47.89	40.31%	1.95	3.61	1.71	0.1228	78.23	2.72	0.110
27 Kalaghchy	Frame	58.05	76.94	50.78	36.25%	2.36	1.72	3.36	0.2713	77.20	-0.69	0.160
28 Shirey2	Apt	80.98	80.89	55.46	23.82%	1.13	1.26	2.44	0.2300	80.00	3.72	0.500
29 Kannan	Apt	95.77	76.79	59.45	35.95%	2.43	2.71	3.48	0.2558	74.44	6.57	0.540
30 Yarosh2	Block	37.4	77.42	63.38	31.42%	1.78	1.38	4.03	0.3796	76.76	2.09	1.070
Averages		61.03	78.28	55.71	0.40	2.33	1.88	2.48	0.1947	77.34	2.13	0.415
Std Dev		28.30	2.00	6.11	0.12	1.23	1.39	0.96	0.1245	2.41	2.14	0.312
Minimum		11.33	73.59	41.36	0.193	0.76	0.25	0.15	0.0451	70.97	-3.82	0.050
Maximum		125.3	82.14	70.03	0.6352	6.71	7.29	4.07	0.5660	81.81	6.57	1.420

TABLE C-1 (cont.)
Summary of Measured Data From Each Site

C:\qpro\wql\tstat.wql

5/7/91

Range: pl..ae44

	Ton= b0+b1*X		Std Dev	Toff= c0+c1*X		Std Dev	RHavg = d0 + d1*X			Tlon = e0/(1-x)		T2on=(f0+f1*x)/(1-x)		alpha f1/f0	Std Dev
	b0	b1		c0	c1		d0	d1	Dev	e0	Dev	f0	f1		
1 Raustad	75.05	5.25	0.37	71.47	6.43	0.40	53.51	5.06	1.15	4.52	0.959	3.70	1.26	0.34	0.790
2 Henderson	81.26	2.24	0.58	78.08	2.26	0.30	56.79	-15.90	2.57	15.66	3.182	14.07	3.44	0.24	3.047
3 Rudd	77.37	5.82	0.50	73.31	5.99	0.34	52.88	-0.43	1.69	8.63	0.965	9.45	-2.29	-0.24	0.851
4 Marvin	75.93	3.92	0.29	74.05	4.42	0.43	54.84	-0.71	0.88	3.68	0.497	4.02	-0.69	-0.17	0.479
5 Holder	81.92	4.24	0.09	79.60	2.22	0.21	52.97	-10.93	0.71	5.22	0.192	5.27	-0.10	-0.02	0.192
6 Sherwin	80.02	0.75	0.66	78.97	1.5	0.60	66.94	-1.39	2.77	4.54	0.864	4.68	-0.28	-0.06	0.861
7 Parker	81.29	0.83	0.69	76.10	2.39	0.91	59.92	1.00	1.84	6.61	2.710	6.68	-0.12	-0.02	2.720
8 Shirey	80.72	4.47	0.56	80.23	3.46	0.40	62.86	1.27	1.12	6.12	1.006	5.90	0.58	0.10	1.007
9 Redmond	76.81	1.46	1.53	74.72	1.83	1.36	49.32	-2.53	2.42	7.51	8.270	5.75	2.74	0.48	8.190
10 Fairey1	76.73	3.34	0.60	74.93	3.71	0.75	59.49	-2.18	1.48	6.25	0.842	5.24	1.90	0.36	0.601
11 Fairey2	76.73	3.66	0.34	75.00	3.96	0.50	56.92	-4.11	1.29	6.55	1.520	4.90	2.51	0.51	0.983
12 Kettles	71.12	7.16	0.48	68.49	6.15	0.29	47.96	2.94	0.50	5.84	2.010	5.10	1.07	0.21	1.960
13 Melody	77.55	2.31	1.04	76.13	2.6	1.10	56.94	-4.33	2.64	5.44	0.820	5.13	0.72	0.14	0.791
14 Dhere	80.96	2.04	0.63	79.97	2.44	0.70	58.85	1.31	2.18	4.76	1.070	3.49	2.17	0.62	0.778
15 Dutton	74.40	2.29	0.55	72.37	2.68	0.57	78.52	-17.11	3.79	7.30	2.186	6.18	1.76	0.28	2.000
16 Dernier	78.10	3.22	0.36	75.82	3.07	0.40	66.01	-3.66	2.65	5.05	1.180	5.28	1.20	0.23	1.043
17 Vieira1	79.54	0.14	0.36	71.69	2.47	0.35	58.17	-2.91	0.55	111.12	113.787	161.36	-90.87	-0.56	121.552
18 Vieira2	76.11	4.86	0.17	72.65	6.08	0.26	56.08	-1.77	0.98	8.69	1.128	8.30	0.84	0.10	1.118
19 Dummer	76.22	4.30	0.16	74.82	4.97	0.20	40.80	1.20	1.45	4.25	0.560	3.60	0.99	0.28	0.390
20 Raustad2	76.91	6.34	0.25	73.95	7.93	0.41	52.13	5.42	1.87	4.20	0.569	3.55	0.99	0.28	0.345
21 Goulet	77.81	2.66	0.32	76.73	2.19	0.30	57.74	-5.49	1.12	5.26	0.869	4.27	1.98	0.46	0.514
22 Cummings3	77.10	2.56	0.21	74.38	2.49	0.58	51.02	-2.09	0.86	12.2	1.811	12.75	-1.00	-0.08	1.791
23 Cummings2	79.49	2.62	0.09	76.93	2.55	0.35	51.44	-4.68	0.45	13	1.945	13.16	-0.28	-0.02	1.992
24 Cummings1	79.44	3.05	0.16	77.30	1.97	0.50	51.45	-2.94	0.67	9.89	1.270	10.57	-1.42	-0.13	1.231
25 Mellor	79.34	0.54	0.26	77.10	0.04	0.27	62.50	-6.13	1.11	13.84	6.757	13.87	-0.06	-0.00	6.830
26 Walker	78.51	4.14	0.18	76.99	3.09	0.21	45.56	5.84	1.66	8.88	1.283	8.35	1.12	0.13	1.271
27 Kalaghchy	77.59	0.59	0.21	75.51	-0.08	0.24	52.17	-3.82	1.10	4.58	0.978	4.66	-0.13	-0.03	0.980
28 Shirey2	80.26	4.52	0.62	79.47	3.27	0.41	55.99	-2.39	1.19	6.59	2.888	4.20	7.16	1.70	2.411
29 Kannan	75.09	7.47	0.61	72.28	8.51	0.60	57.72	6.01	2.89	4.36	0.591	4.05	0.70	0.17	0.570
30 Yarosh2	77.00	3.26	1.08	75.31	3.01	1.20	64.21	-2.77	1.77	3.75	0.686	4.00	-0.64	-0.16	0.679
Averages	77.88	3.34	0.47	75.48	3.45	0.50	56.39	-2.27	1.58	10.51	5.45	11.72	-2.16	0.17	5.599
Std Dev	2.36	1.89	0.32	2.75	2.02	0.29	7.07	5.34	0.82	18.93	20.19	27.97	16.56	0.38	21.602
Minimum	71.12	0.14	0.09	68.49	-0.08	0.2	40.8	-17.11	0.45	3.68	0.192	3.49	-90.87	-0.56	0.192
Maximum	81.92	7.47	1.53	80.23	8.51	1.36	78.52	6.01	3.79	111.12	113.787	161.36	7.16	1.70	121.552

C-3

TABLE C-1 (cont.)
Summary of Measured Data From Each Site

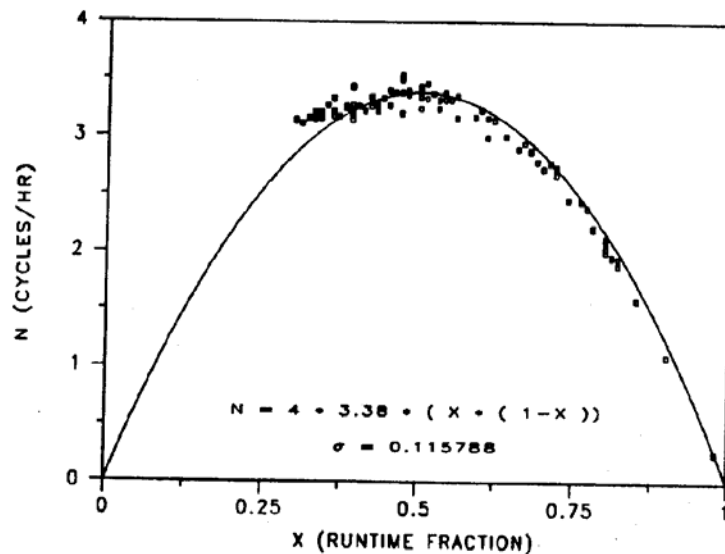
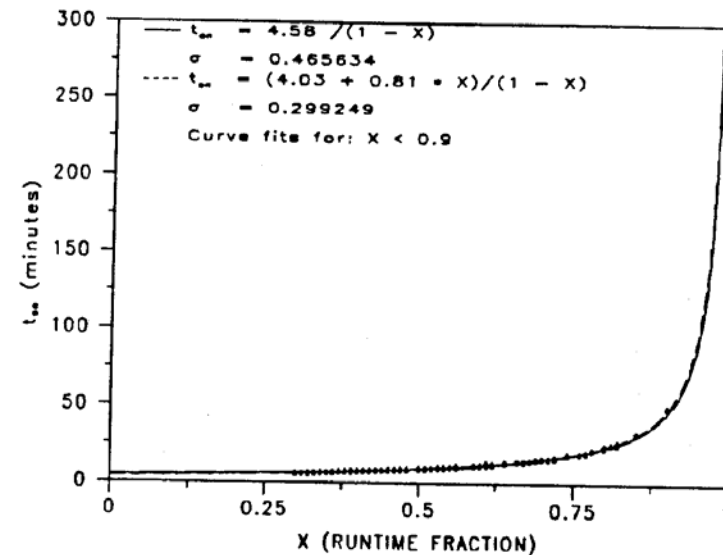
C:\qpro\wq1\tstat.wq1 Thermostat Cycling Data as of: 5/7/91 Range: agl..ar44

Name	Floor Area Ft2	No of People A C	AC Size Tons	sqft/ tons	Wall: In, Out or Gar	Age of House Years	Avg Ambient Temp ,F	Avg Amb Dew- Point ,F	Solar radiation w/m2
1 Raustad	1350	2 0	2.5	540.0	I	26	83.13	71.74	403.58
2 Henderson	1450	2 0	2.5	580.0	I	28	77.62	61.47	256.79
3 Rudd	1200	2 0	2	600.0	I	28	80.16	66.73	234.46
4 Marvin	2250	2 0	3.5	642.9	G	22	78.28	69.40	6.54
5 Holder	1200	3 1	3	400.0	I	30	80.76	70.80	49.90
6 Sherwin	1800	4 0	3	600.0	I	30	79.32	67.94	175.10
7 Parker	1200	2 0	2	600.0	G	33	79.90	69.23	250.11
8 Shirey	616	2 0	1.5	410.7	I	2.5	82.18	70.52	277.54
9 Redmond	2200	2 0	3.5	628.6	I	28	82.11	69.33	220.98
10 Fairey1	2700	5 0	4	675.0	I	1	84.71	69.82	302.68
11 Fairey2	2700	5 0	4	675.0	I	1	81.74	69.62	218.92
12 Kettles	1980	2 2	2.5	792.0	I	2.5	83.25	69.04	286.13
13 Melody	1600	2 0	3	533.3	I	3	80.64	67.15	245.05
14 Dhere	1200	2 0	2.5	480.0	I	30	83.02	69.83	261.33
15 Dutton	1200	2 5	2.5	480.0	I	2	79.16	68.18	21.80
16 Dernier	1080	2 2	2	540.0	I	35	82.57	68.19	274.80
17 Vieira1	1460	2 1	2.5	584.0	G	23	82.40	68.72	306.10
18 Vieira2	1460	2 1	2.5	584.0	G	23	81.94	68.04	254.63
19 Dummer	2000	2 2	3.5	571.4	I	25	82.09	66.81	250.84
20 Raustad2	1350	2 0	2.5	540.0	I	26	81.38		203.75
21 Goulet	1800	2 0	3	600.0	G	1	83.44		307.58
22 Cummings3	1650	2 2	3	550.0	O	28	81.13	65.12	178.20
23 Cummings2	1650	2 2	3	550.0	O	28	82.37	64.61	263.13
24 Cummings1	1650	2 2	3	550.0	O	28	83.27	66.77	284.00
25 Mellor	1764	2 0	3	588.0	G	3	80.43	62.28	175.93
26 Walker	1200	2 1	3	400.0	I	30	83.88	66.43	178.70
27 Kalaghchy	1600	2 0	3	533.3	I	4	80.90	62.55	180.29
28 Shirey2	616	2 0	1.5	410.7	I	2.5	80.65	61.23	173.25
29 Kannan	800	3 0	1.5	533.3	I	5	79.70	62.05	176.54
30 Yarosh2	2250	2 0	3.5	642.9	G	22	78.63	61.60	101.20
Averages	1565.9	2.3 0.7	2.75	560.5	0.00	18.4	81.36	66.97	217.33
Std Dev	516.5	0.8 1.1	0.66	85.6	0.00	12.4	1.73	3.10	85.68
Minimum	616	2 0	1.5	400.0	0	1	77.62	61.23	6.54
Maximum	2700	5 5	4	792.0	0	35	84.71	71.74	403.58

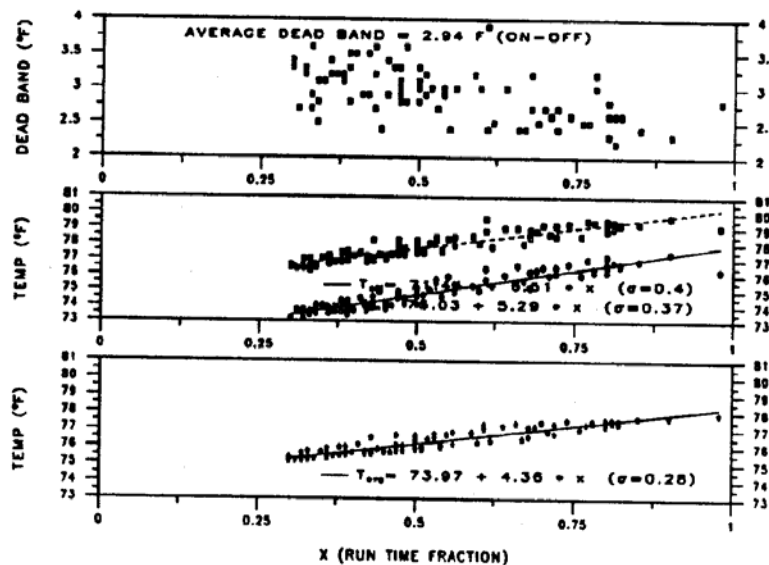
Detailed Data For Each Site

<u>ID</u>	<u>Test</u>	<u>Page</u>
A	Raustad1	C-6
B	Henderson	C-8
C	Rudd	C-10
D	Yarosh1	C-12
E	Holder	C-14
F	Sherwin	C-16
G	Parker	C-18
H	Shirey	C-20
I	Redmond	C-22
J	Fairey1	C-24
K	Fairey2	C-26
L	Kettles	C-28
M	Melody	C-30
N	Dhere	C-32
O	Dutton	C-34
P	Dernier	C-36
Q	Vieiral	C-38
R	Vieira2	C-40
S	Dummer	C-42
T	Raustad2	C-44
U	Goulet	C-46
V	Cummings3	C-48
W	Cummings2	C-50
X	Cummings1	C-52
Y	Mellor	C-54
Z	Walker	C-56
1	Kalaghchy	C-58
2	Shirey2	C-60
3	Kannan	C-62
4	Yarosh2	C-64

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: RAUSTAD
 START DATE: 6/9 OR 180 TIME: 8:0:35 JULEAN HR: 3824.01
 END DATE: 6/10 OR 181 TIME: 17:56:5 JULEAN HR: 3857.93
 ELAPSED TIME: 33.93

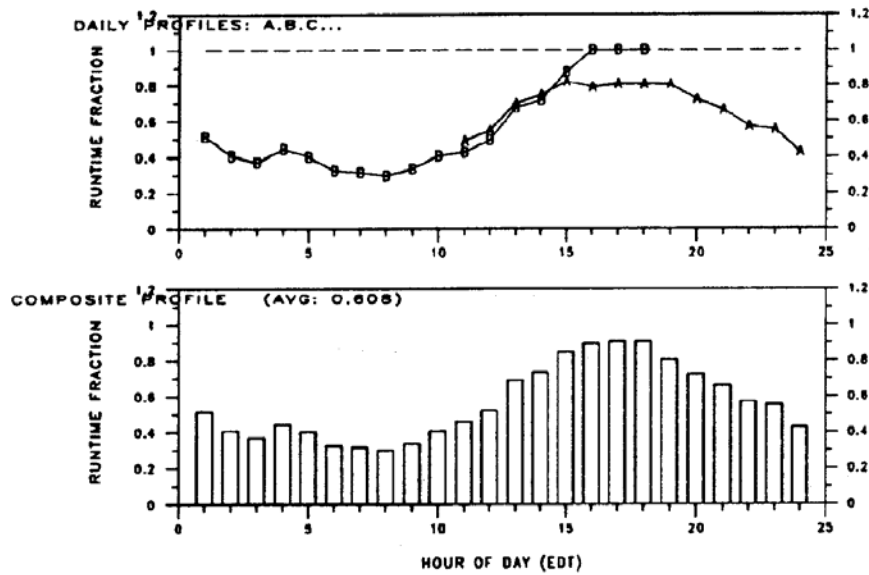
	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.81	76.69	76.49
AVERAGE RH (%)	56.52	56.86	55.96
HOURS	33.93	20.84	13.09
X HOURS		61.42	38.58

SELECTED DATA RANGE:

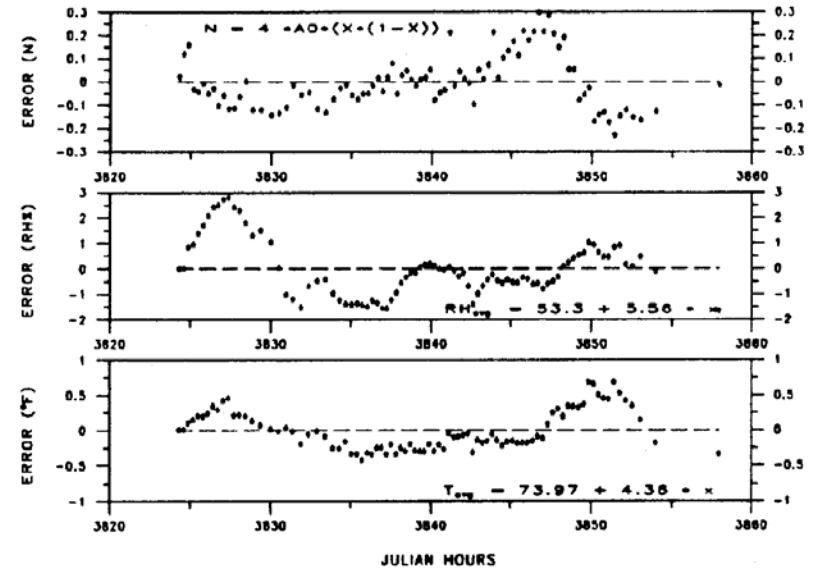
STARTING 180. . 8. (3824.000)
 ENDING 181. . 14. (3854.000)

THERMOSTAT DATA: RAUSTAD

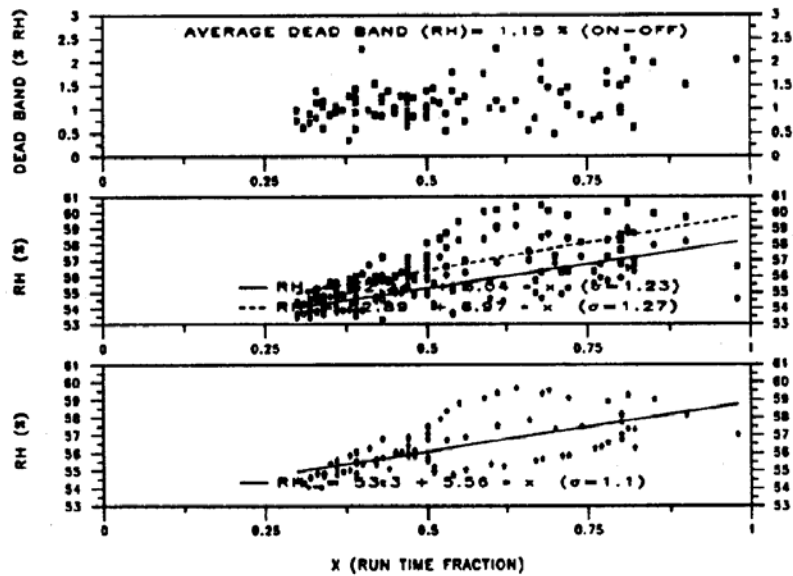
PLOT 4: RUN TIME PROFILES



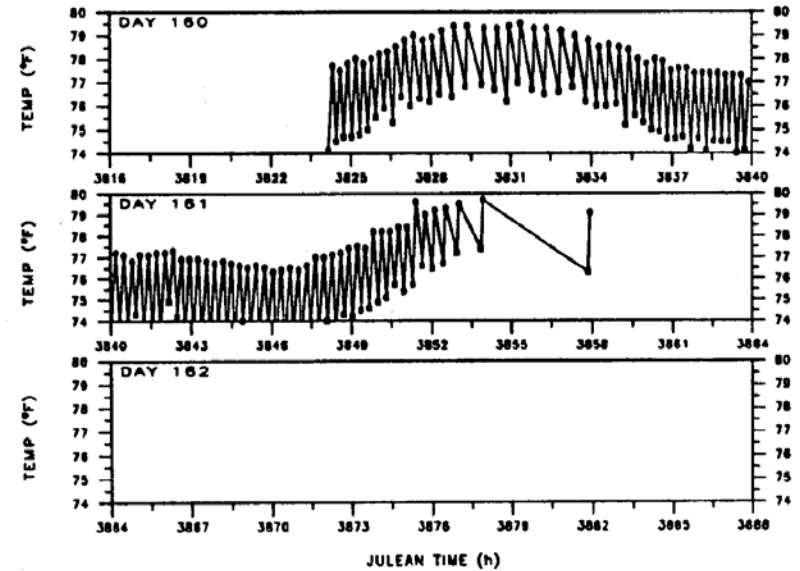
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

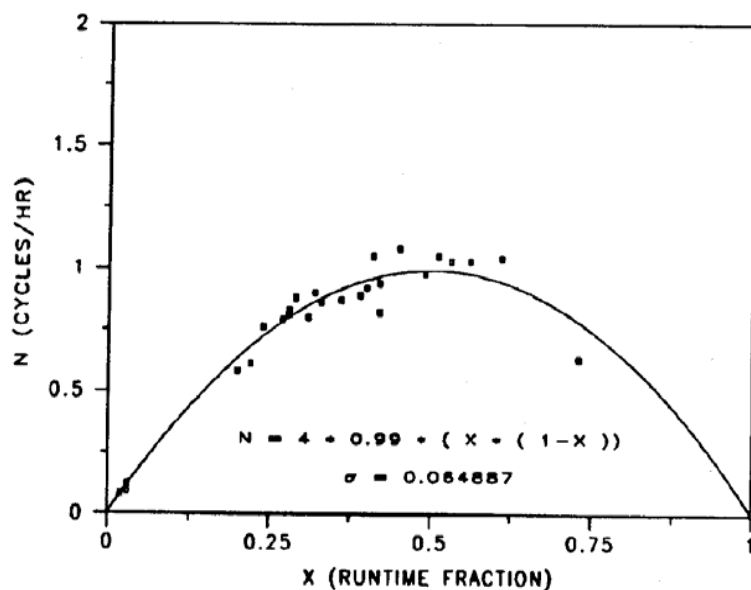
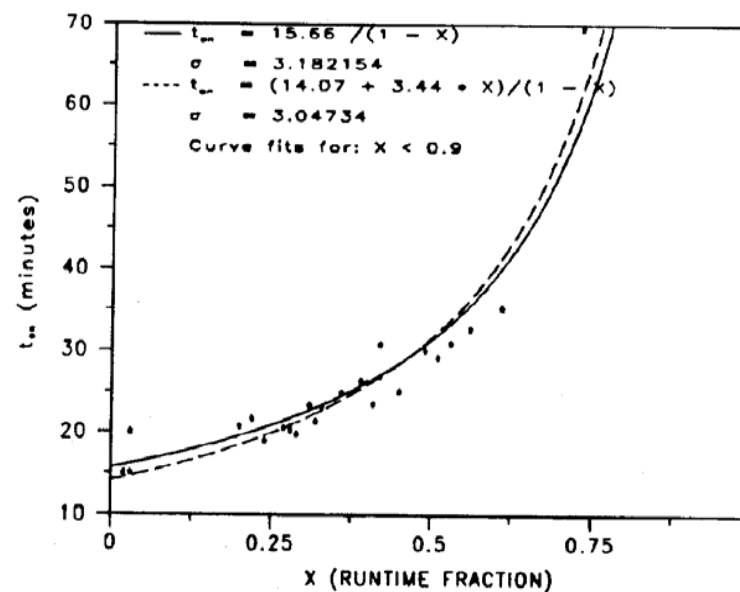


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

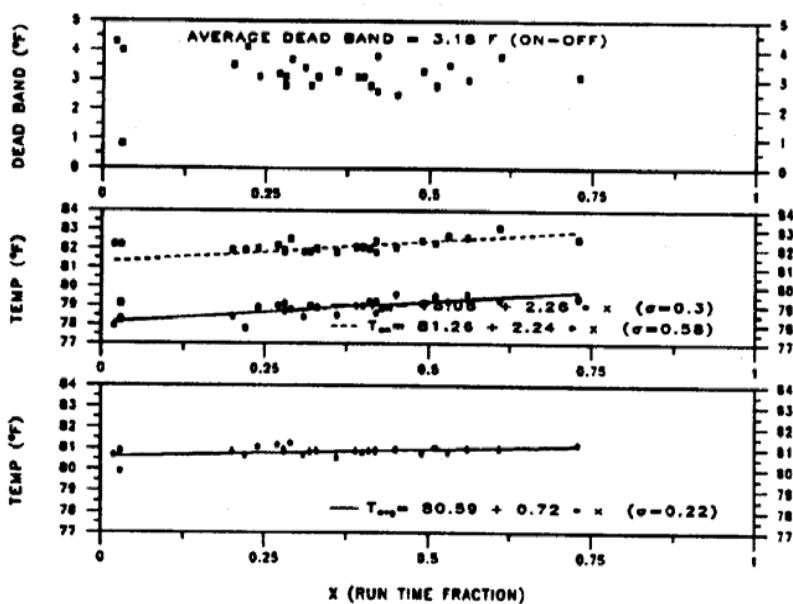


THERMOSTAT DATA: RAUSTAD

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: HENDERSON

START DATE: 6/11 OR 162 TIME: 21:17:15 JULEAN HR: 3885.29

END DATE: 6/14 OR 165 TIME: 7:26:20 JULEAN HR: 3943.44

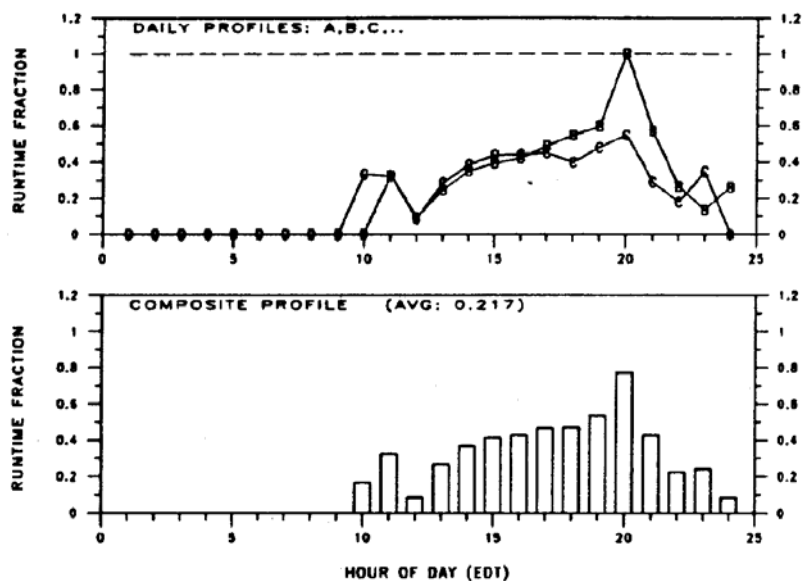
ELAPSED TIME: 58.15

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	80.70	80.20	80.81
AVERAGE RH (%)	54.27	49.89	55.32
HOURS	58.15	11.22	46.93
% HOURS		19.30	80.70

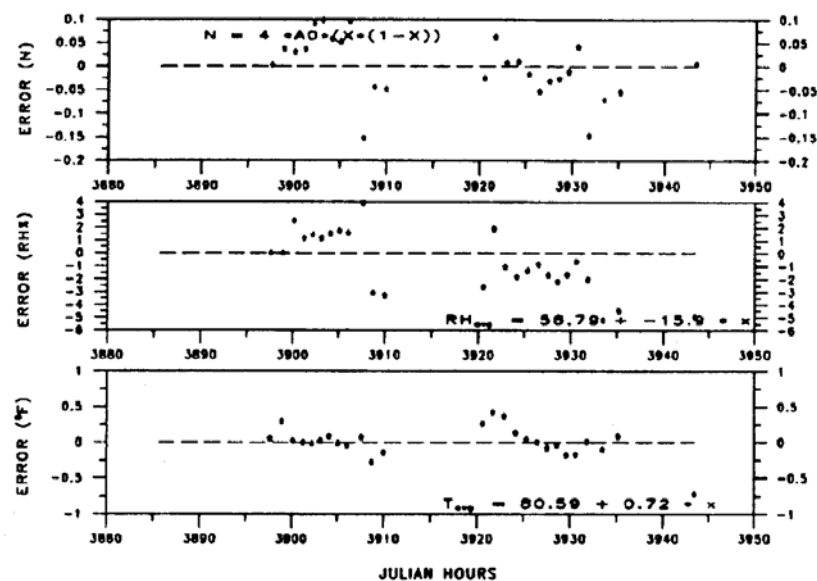
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: HENDERSON

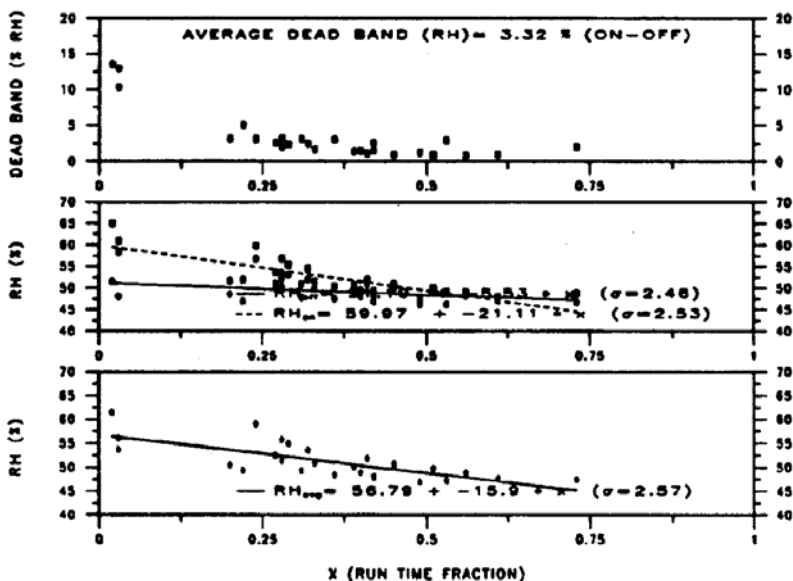
PLOT 4: RUN TIME PROFILES



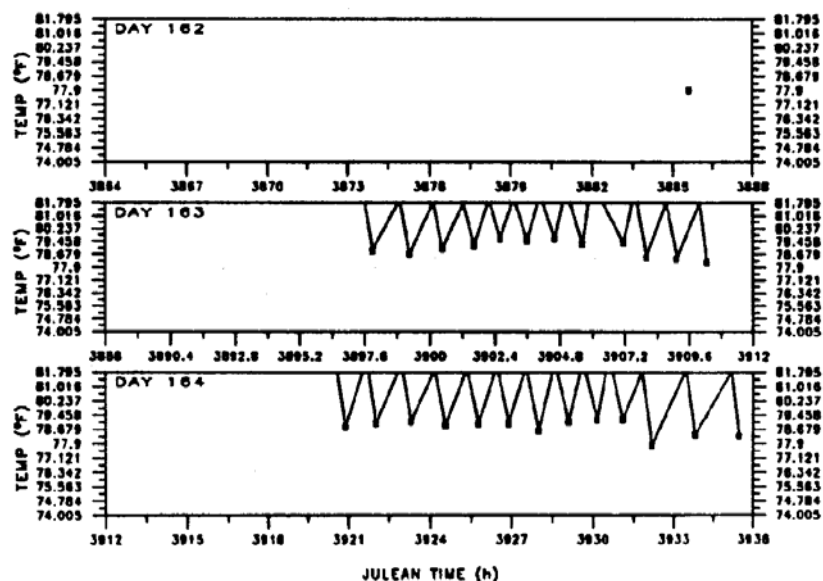
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

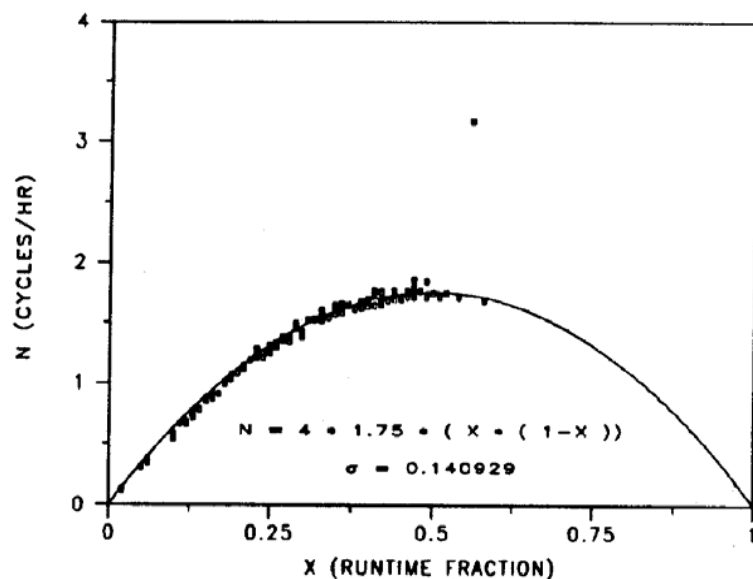
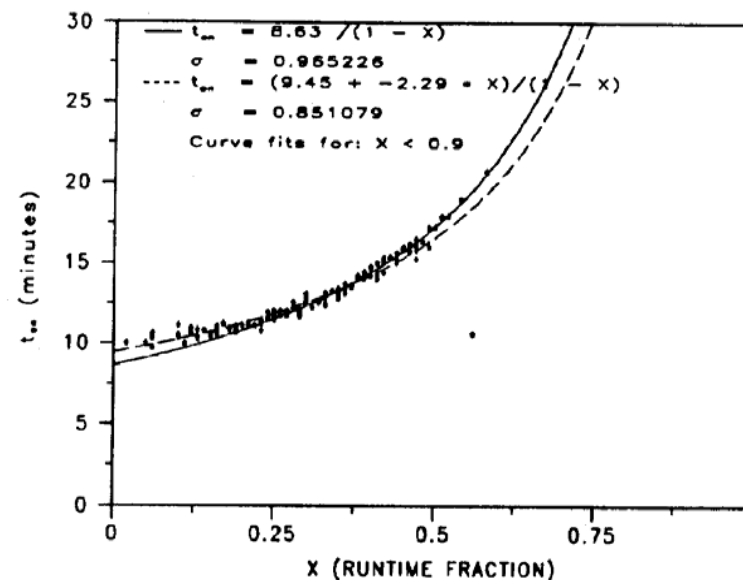


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

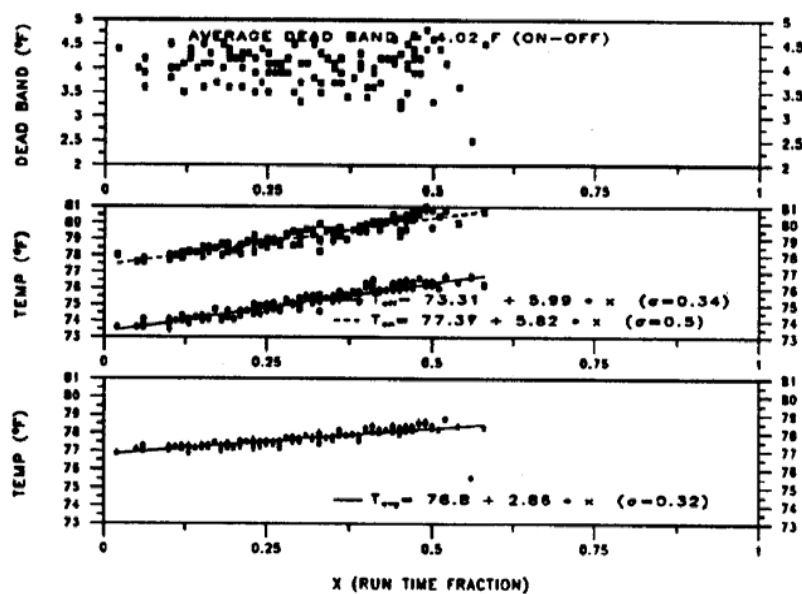


THERMOSTAT DATA: HENDERSON

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: RUDD

START DATE: 6/14 OR 165 TIME: 18:57:40 JULEAN HR: 3954.96

END DATE: 6/19 OR 170 TIME: 8:11:15 JULEAN HR: 4084.19

ELAPSED TIME: 109.23

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	77.47	76.67	77.71
AVERAGE RH (%)	53.05	51.97	53.37
HOURS	109.23	24.97	84.25
% HOURS		22.86	77.14

EOF

EOF

EOF

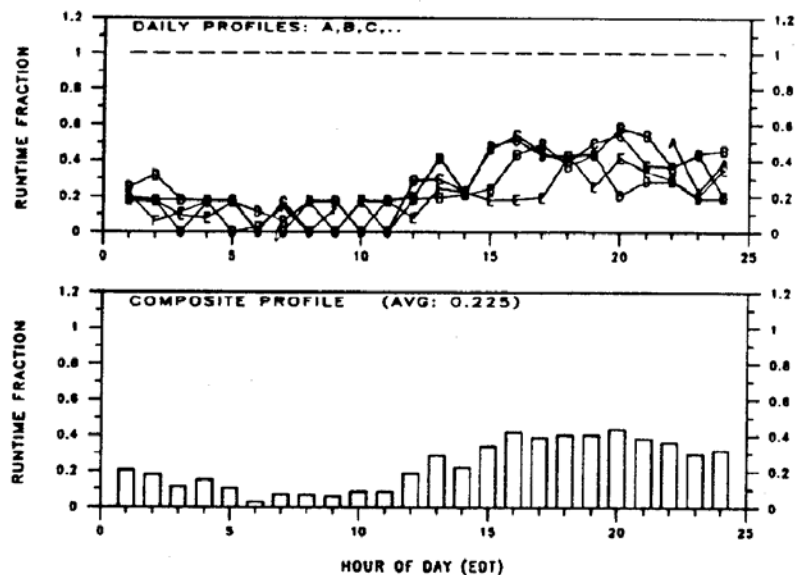
EOF

EOF

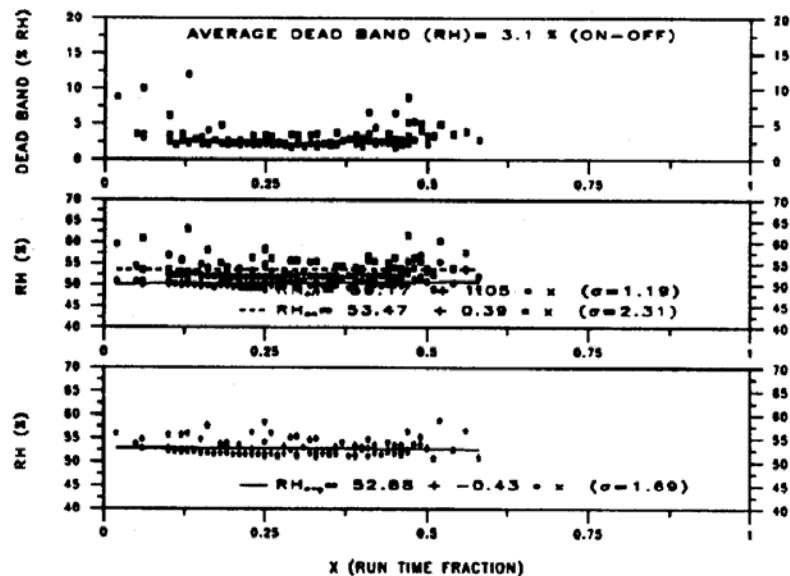
EOF

THERMOSTAT DATA: RUDD

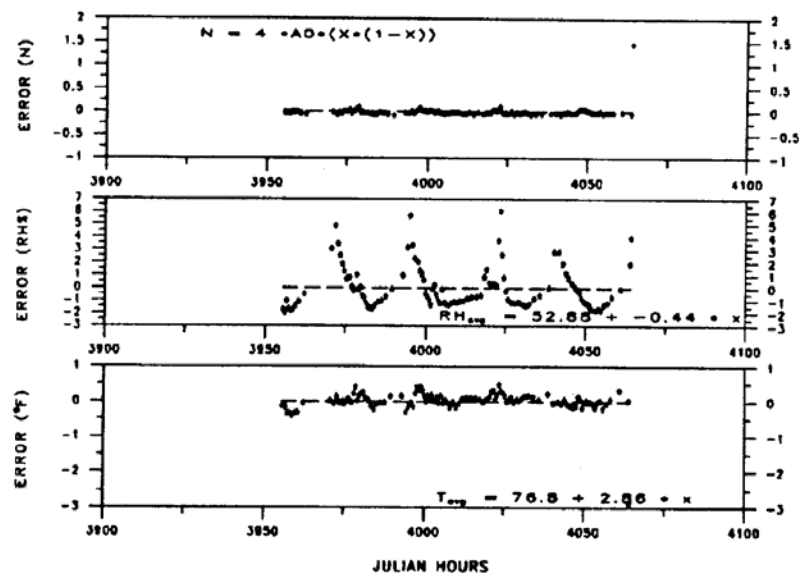
PLOT 4: RUN TIME PROFILES



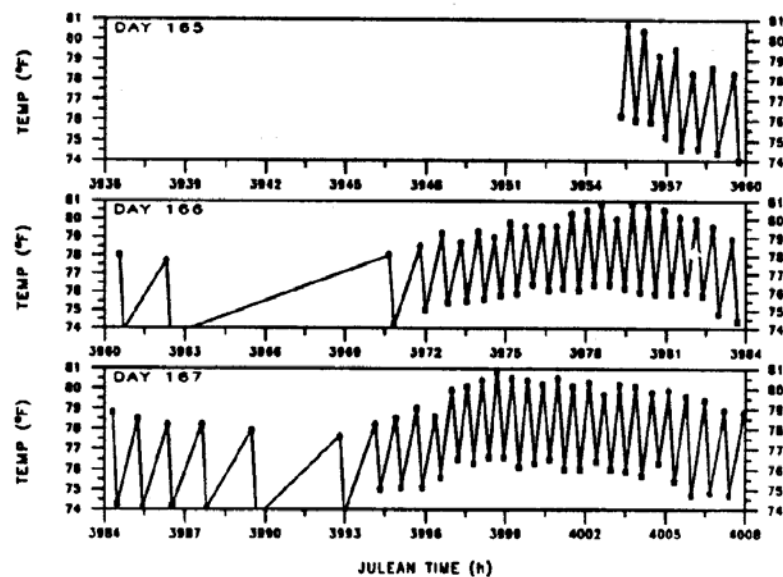
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

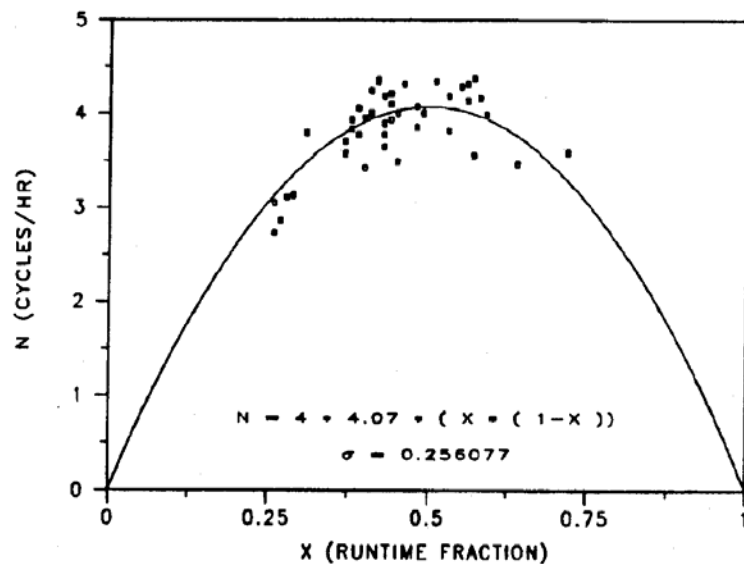
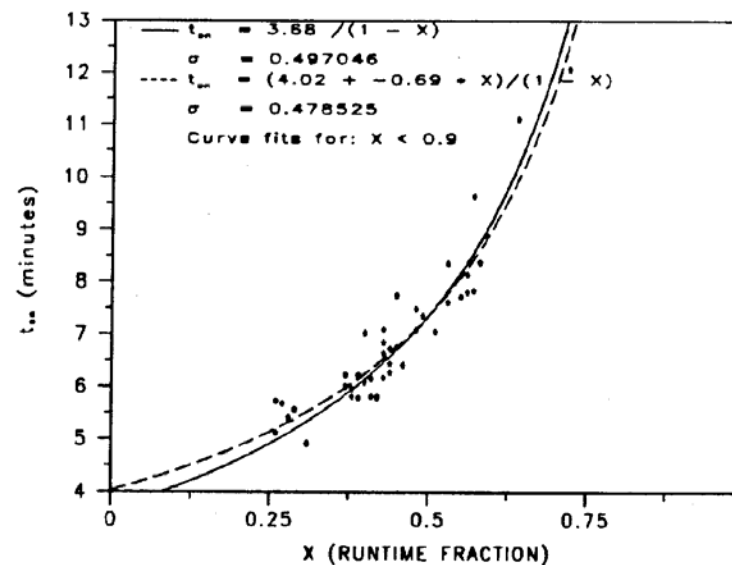


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

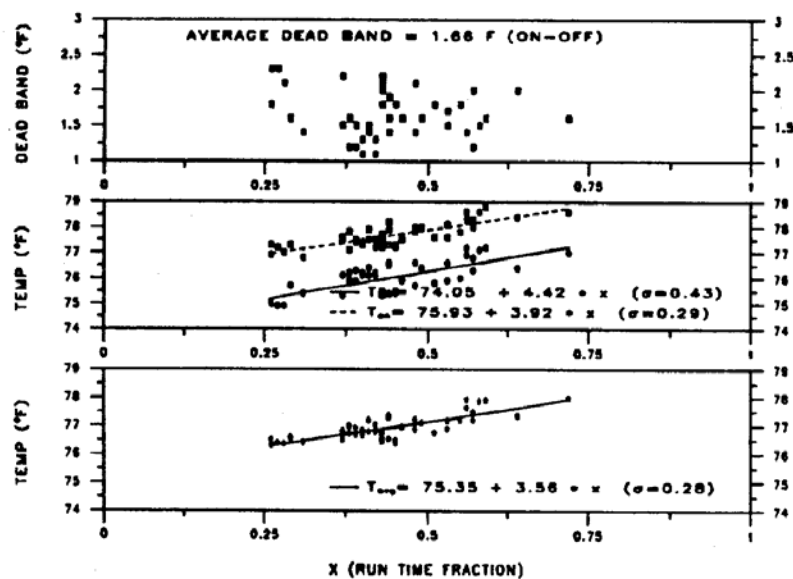


THERMOSTAT DATA: RUDD

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: YAROSH1

START DATE: 6/25 OR 176 TIME: 19:48:10 JULEAN HR: 4219.80

END DATE: 6/26 OR 177 TIME: 7: 7: 40 JULEAN HR: 4231.13

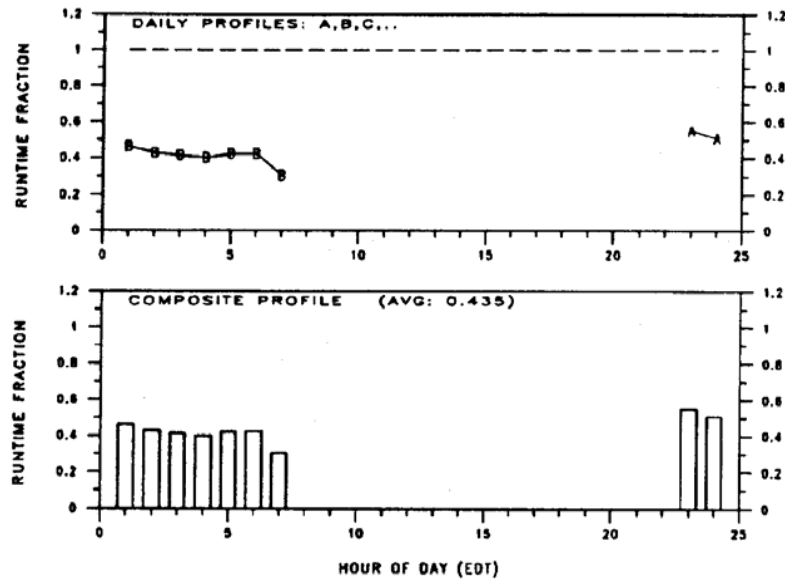
ELAPSED TIME: 11.33

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.91	76.72	77.06
AVERAGE RH (%)	54.55	54.30	54.75
HOURS	11.33	4.98	6.35
% HOURS		43.95	56.05

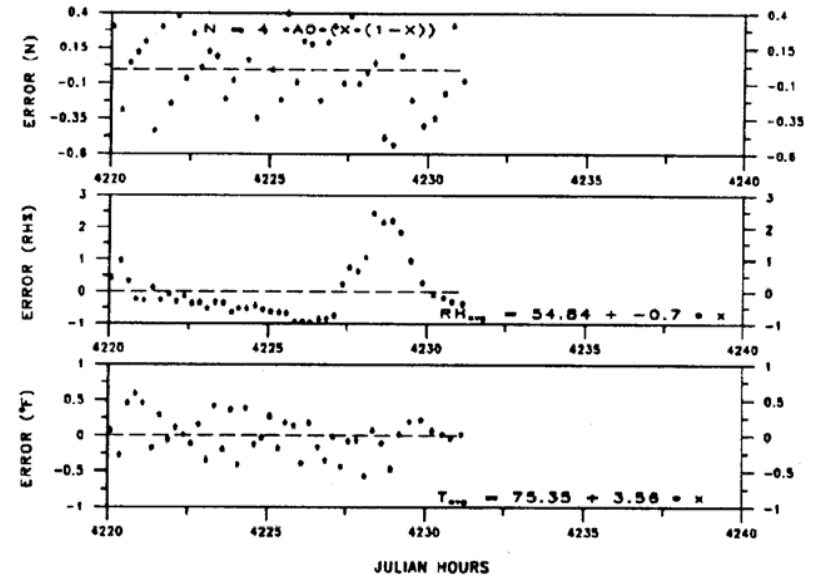
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: YAROSH1

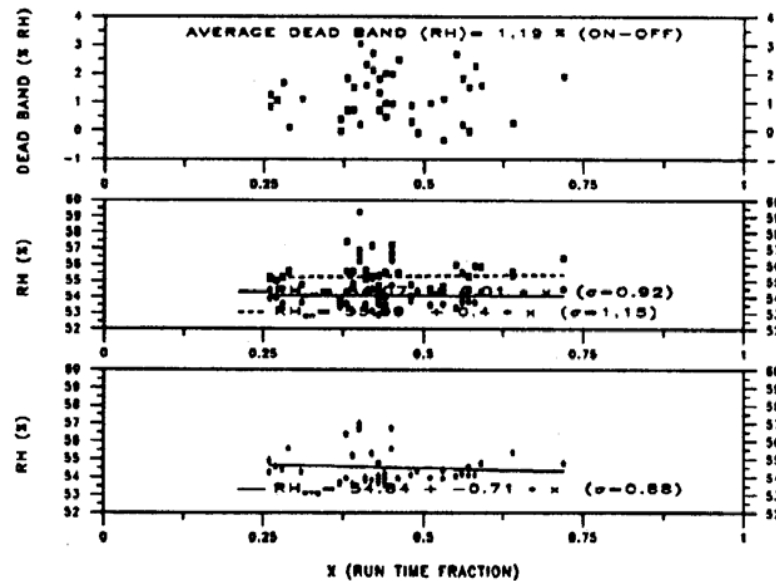
PLOT 4: RUN TIME PROFILES



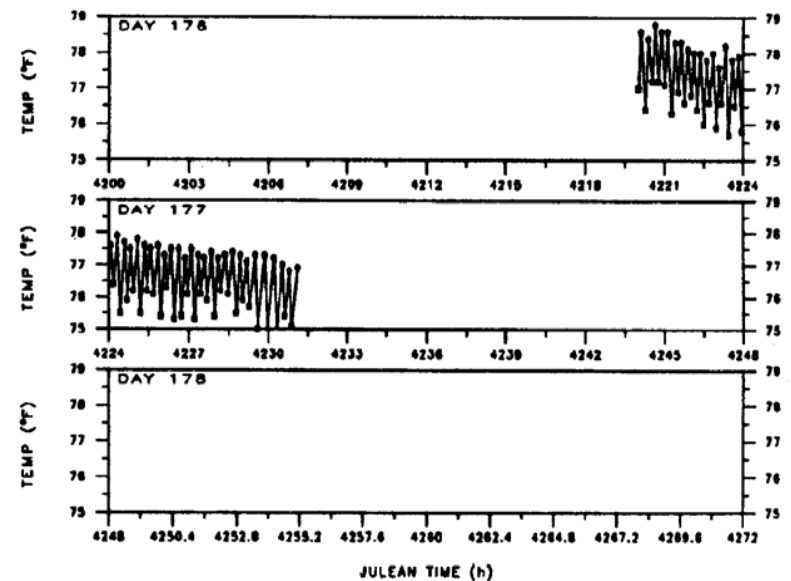
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

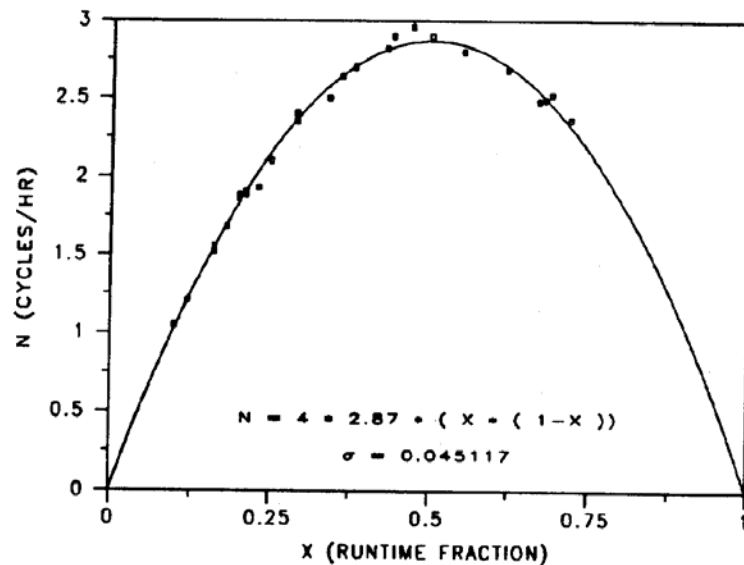
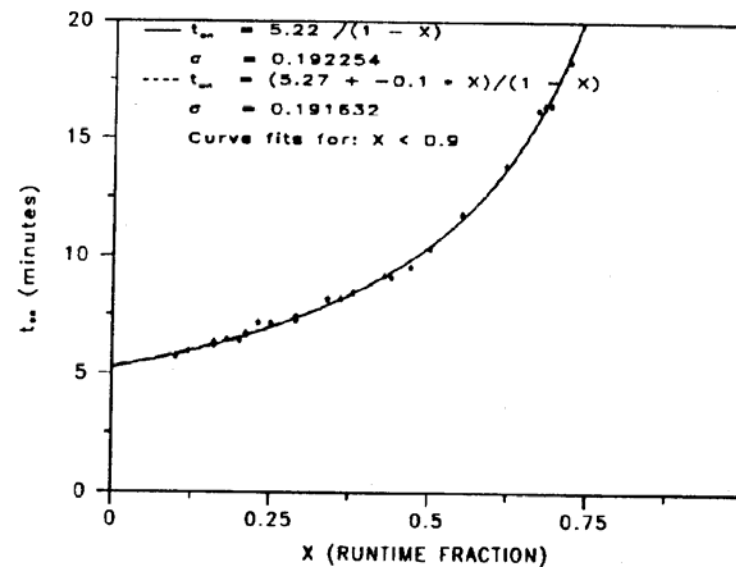


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

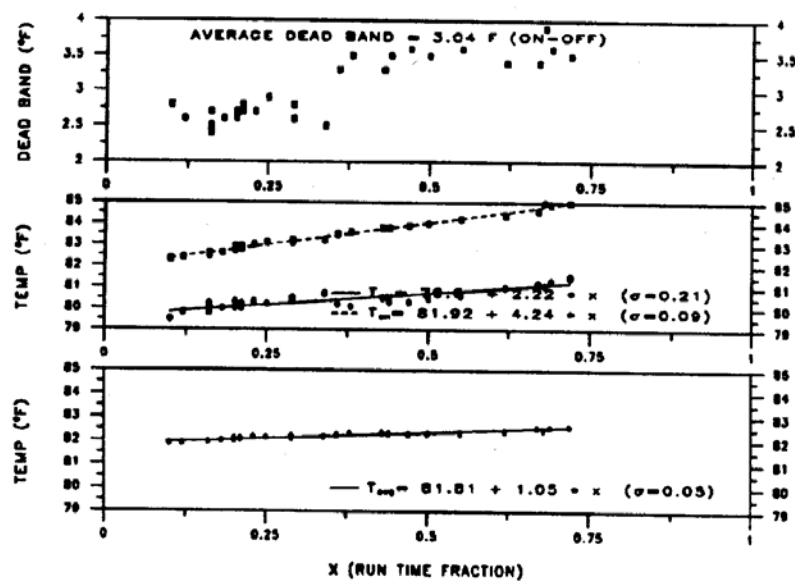


THERMOSTAT DATA: YAROSH1

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: HOLDER

START DATE: 6/29 OR 180 TIME: 17:13:0 JULEAN HR: 4313.22

END DATE: 7/0 OR 181 TIME: 8:23:30 JULEAN HR: 4326.39

ELAPSED TIME: 13.17

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	82.14	81.50	82.43
AVERAGE RH (%)	49.60	48.10	50.29
HOURS	13.17	4.13	9.04
% HOURS		31.35	68.65

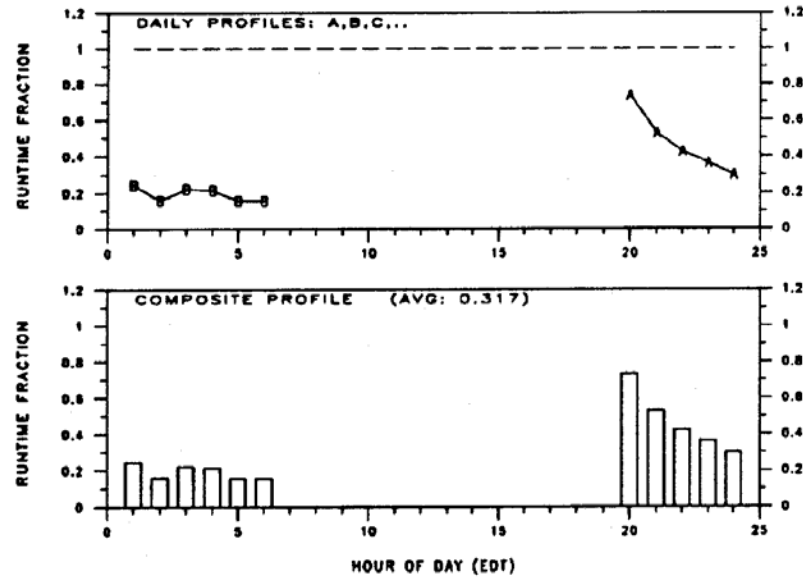
SELECTED DATA RANGE:

STARTING 180. . 12. (4308.000)

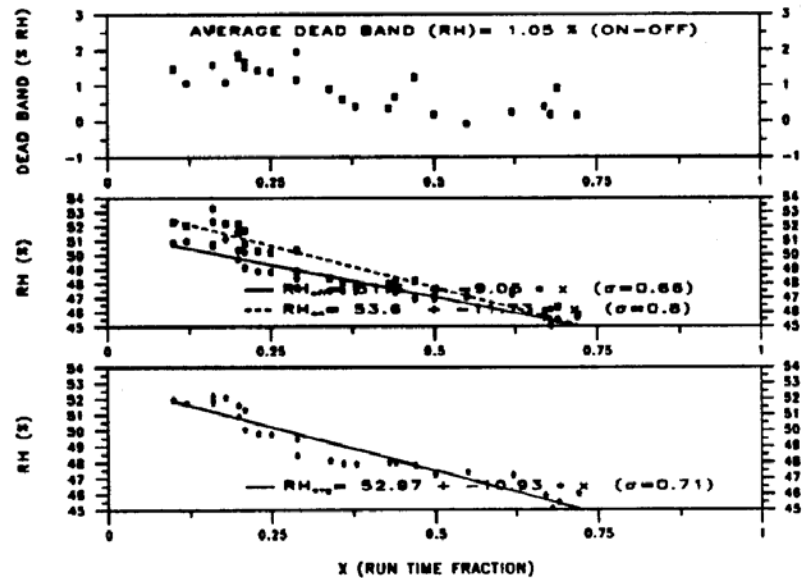
ENDING 181. . 6. (4326.000)

THERMOSTAT DATA: HOLDER

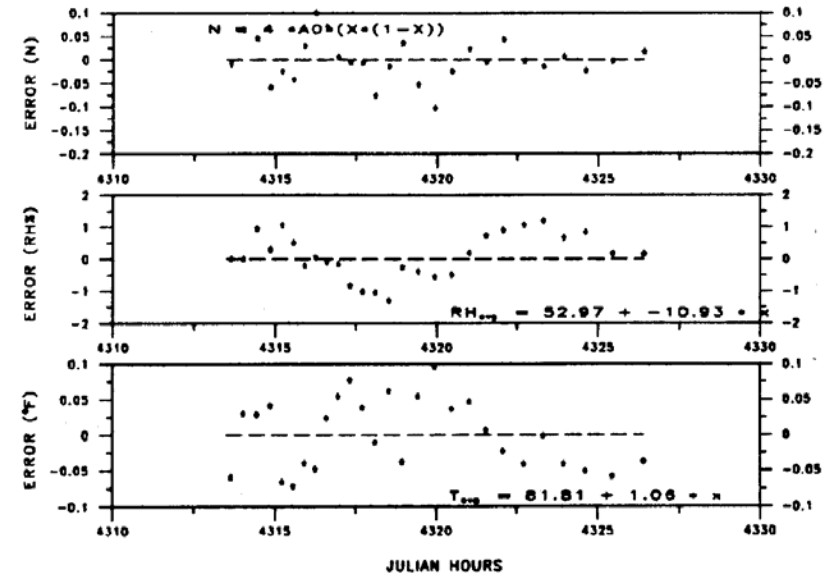
PLOT 4: RUN TIME PROFILES



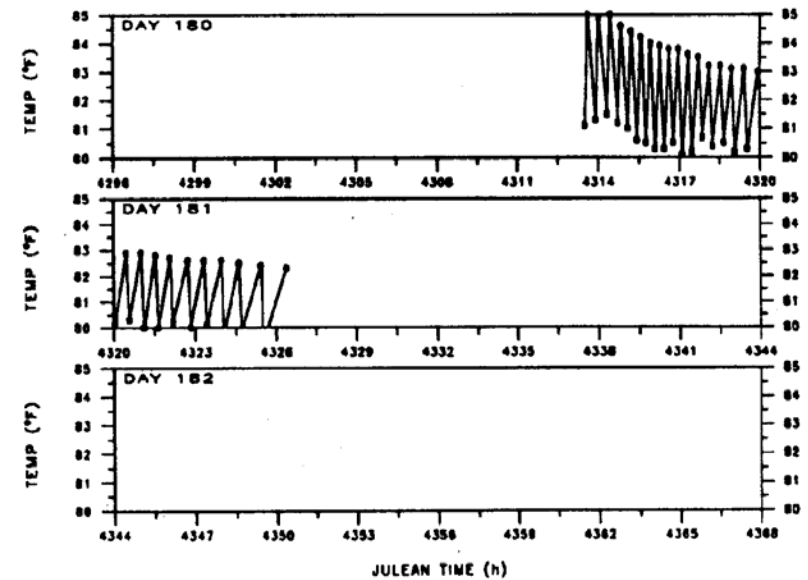
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

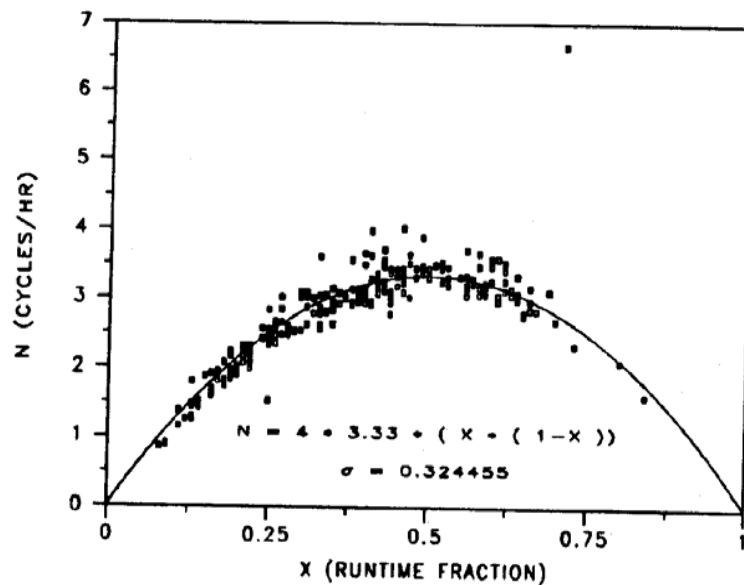
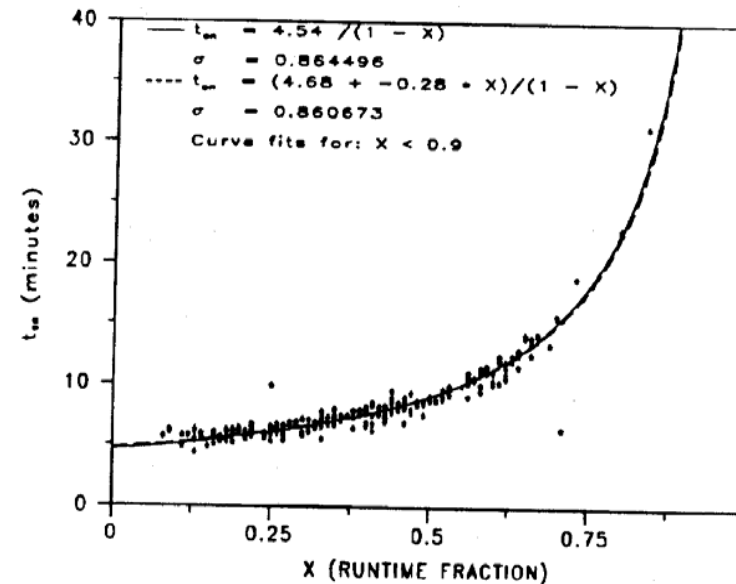


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

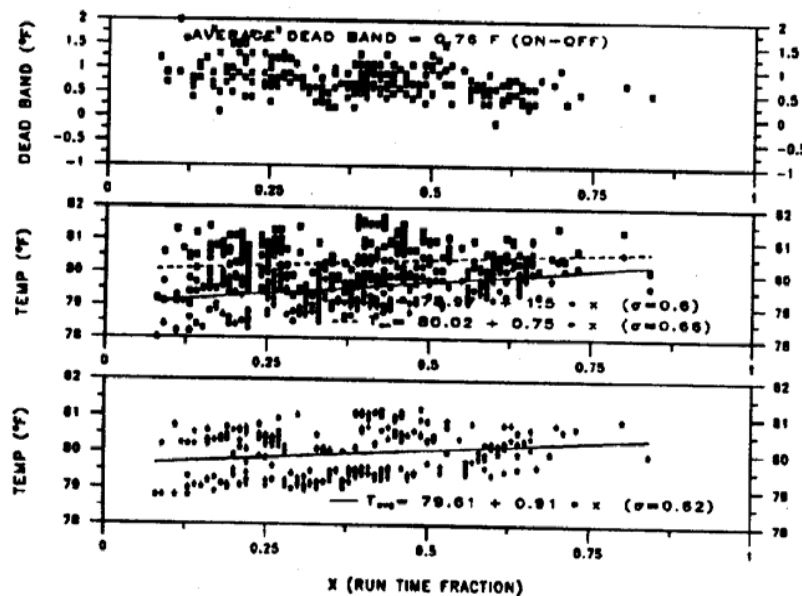


THERMOSTAT DATA: HOLDER

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: SHERWIN

START DATE: 7/11 OR 192 TIME: 17:58:35 JULEAN HR: 4601.98

END DATE: 7/16 OR 197 TIME: 8:1:25 JULEAN HR: 4712.02

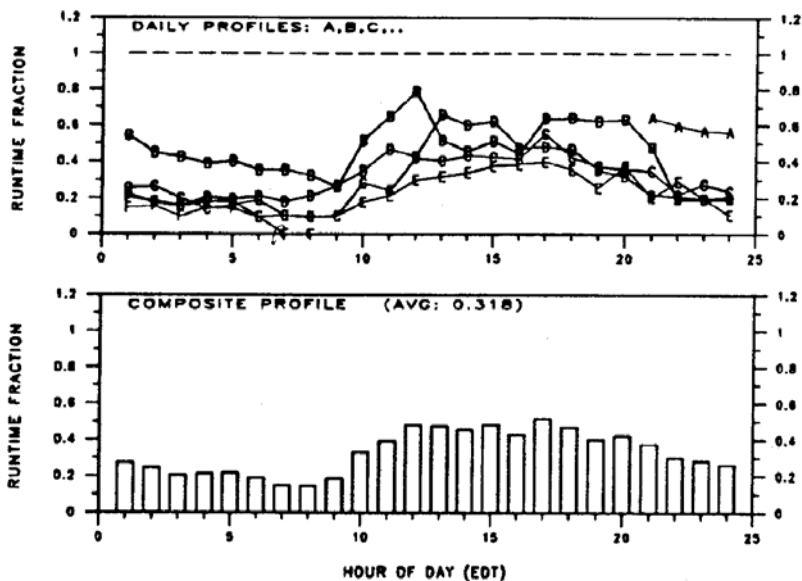
ELAPSED TIME: 110.05

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.83	79.96	79.77
AVERAGE RH (%)	66.37	66.31	66.40
HOURS	110.05	35.29	74.75
% HOURS		32.07	67.93

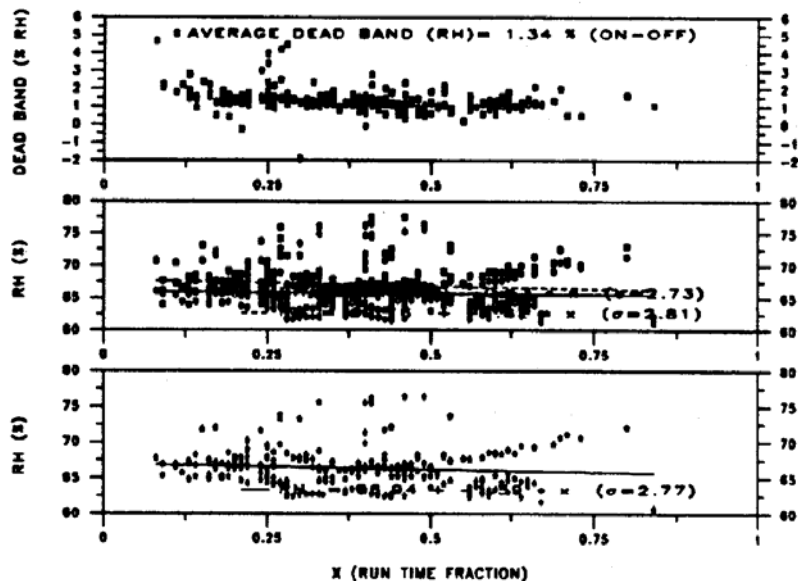
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: SHERWIN

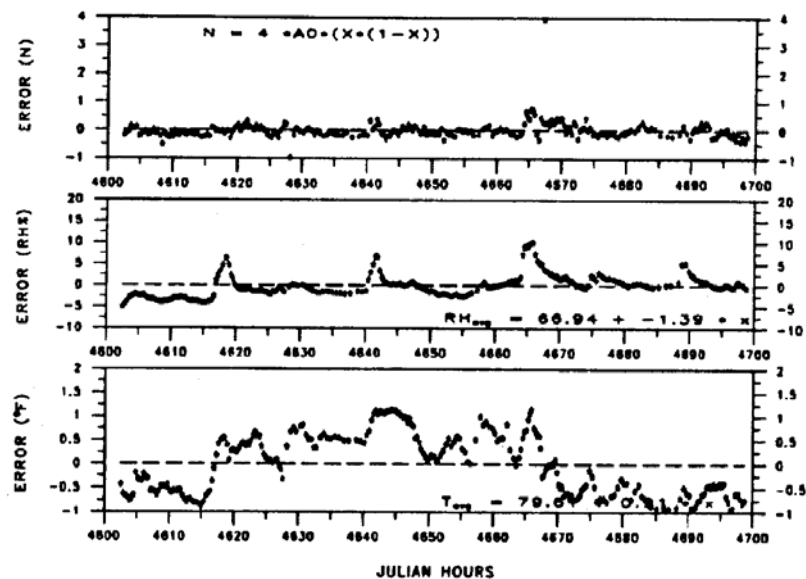
PLOT 4: RUN TIME PROFILES



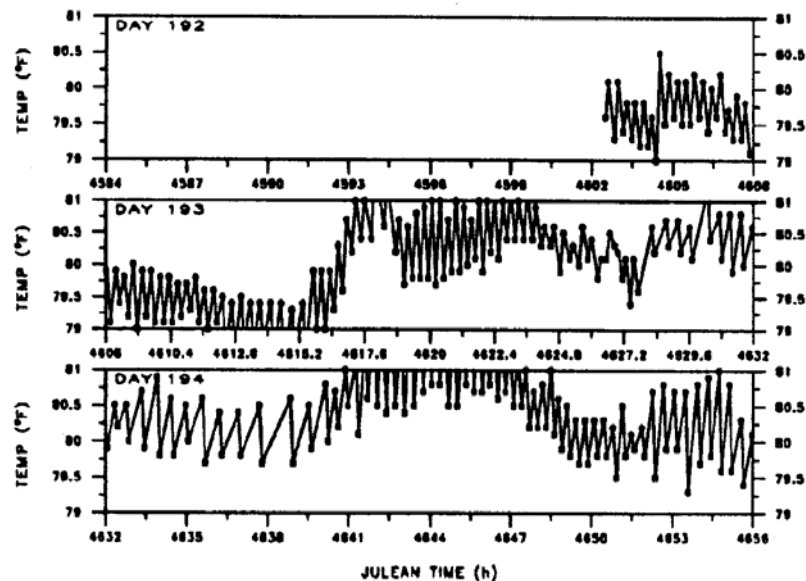
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

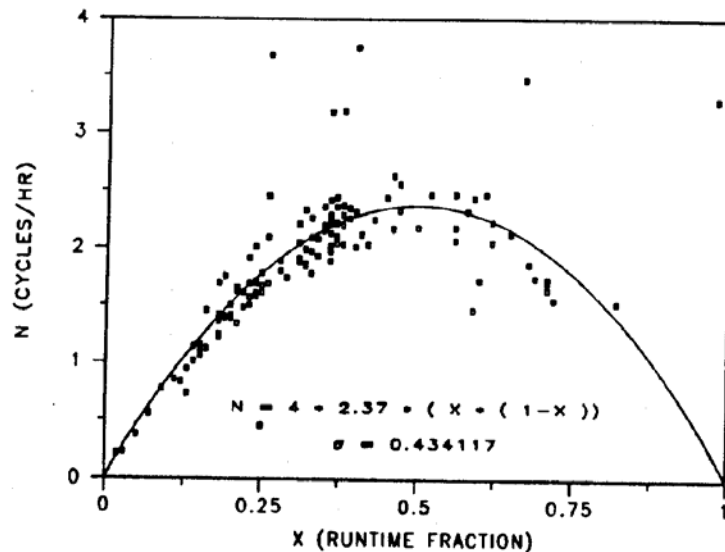
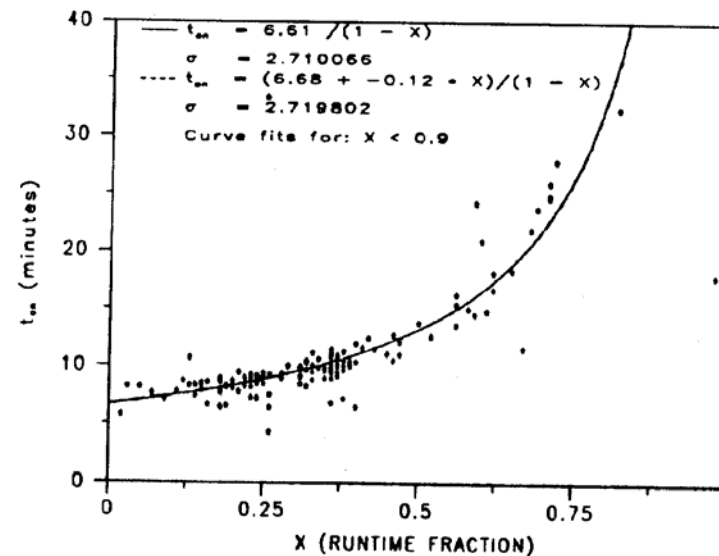


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

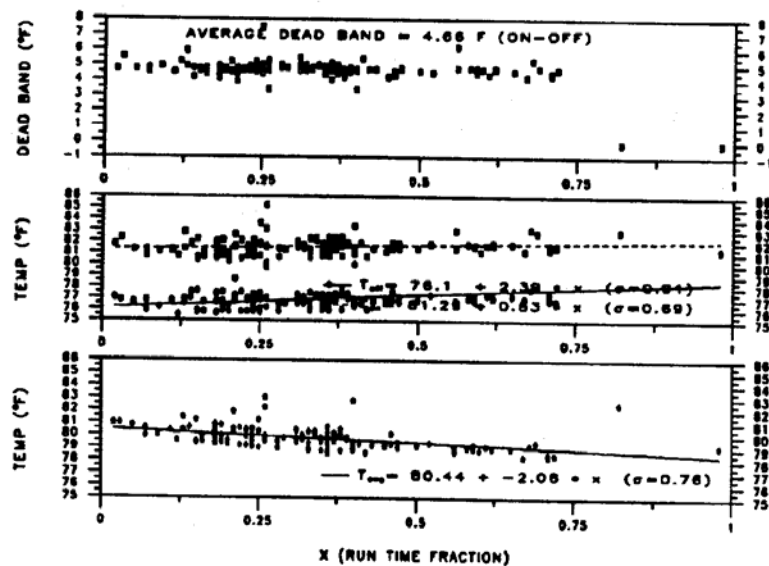


THERMOSTAT DATA: SHERWIN

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: PARKER

START DATE: 7/16 OR 197 TIME: 17:58:35 JULEAN HR: 4721.98

END DATE: 7/20 OR 201 TIME: 13:20:50 JULEAN HR: 4813.35

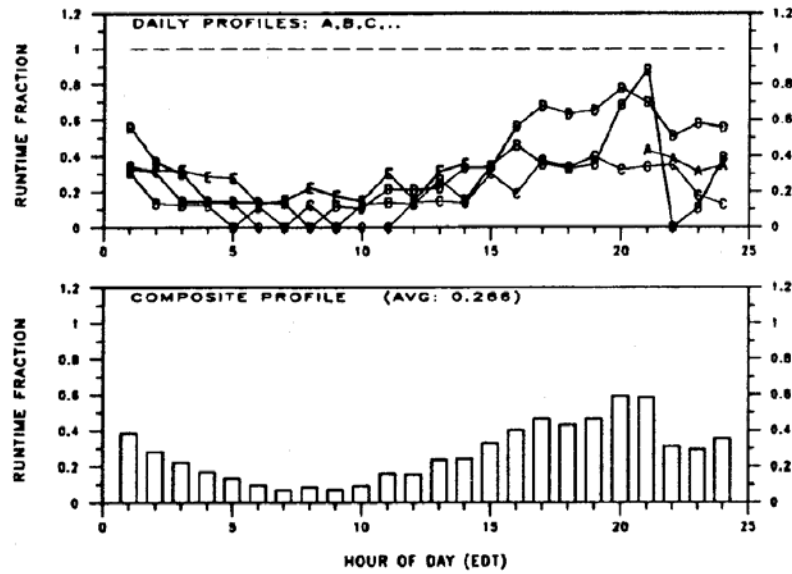
ELAPSED TIME: 91.37

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.94	77.99	80.67
AVERAGE RH (%)	60.65	59.85	60.94
HOURS	91.37	24.75	66.63
% HOURS		27.08	72.92

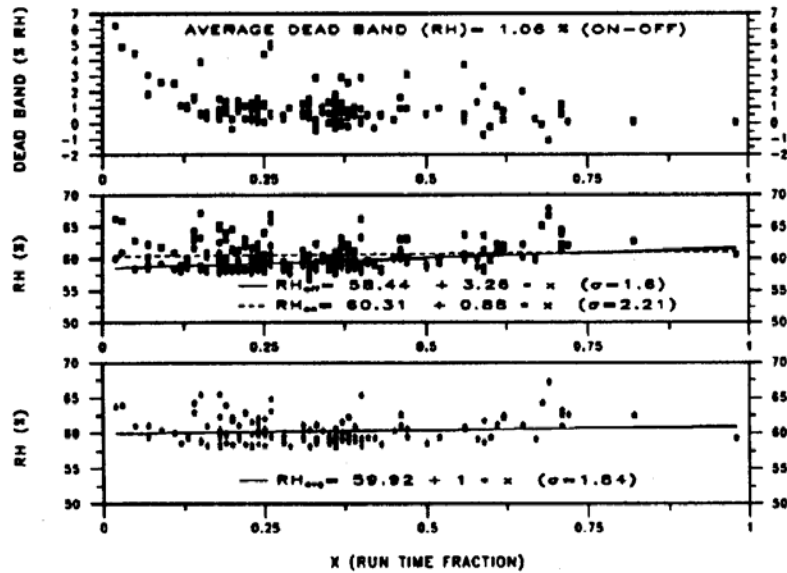
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: PARKER

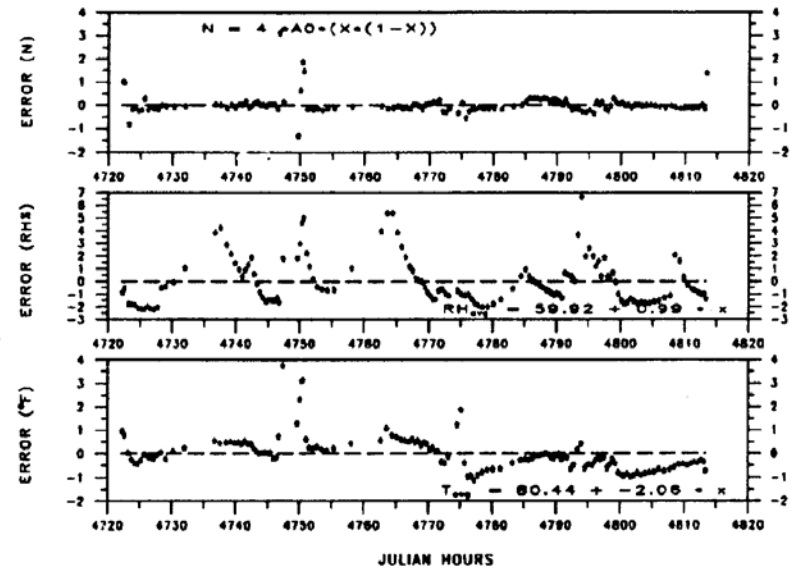
PLOT 4: RUN TIME PROFILES



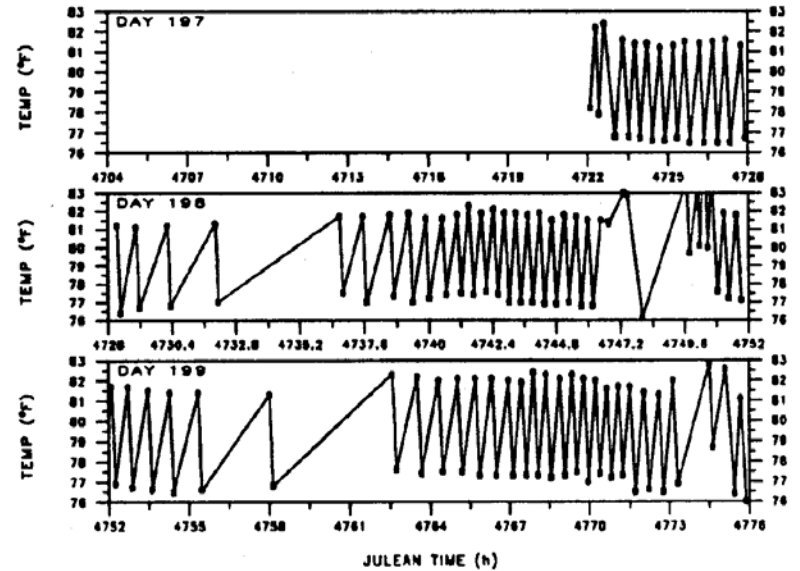
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

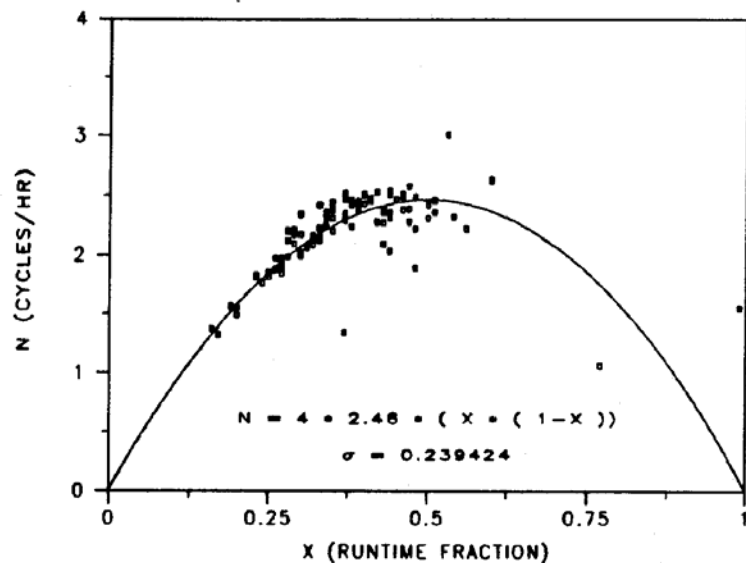
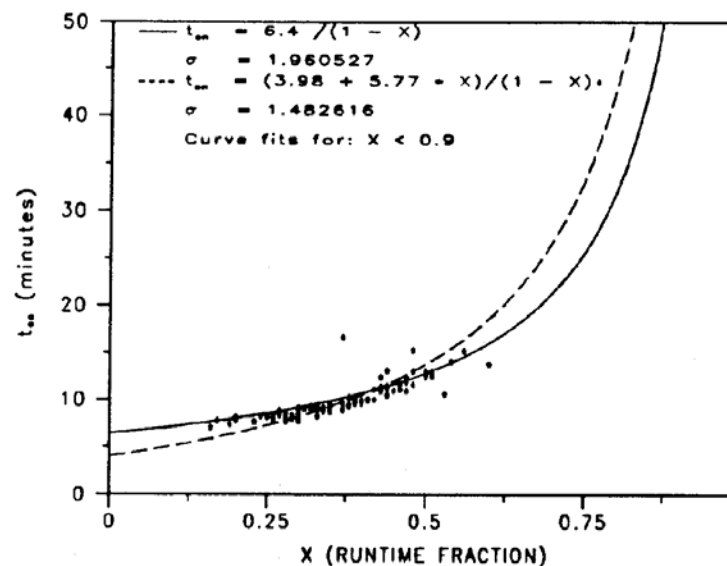


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

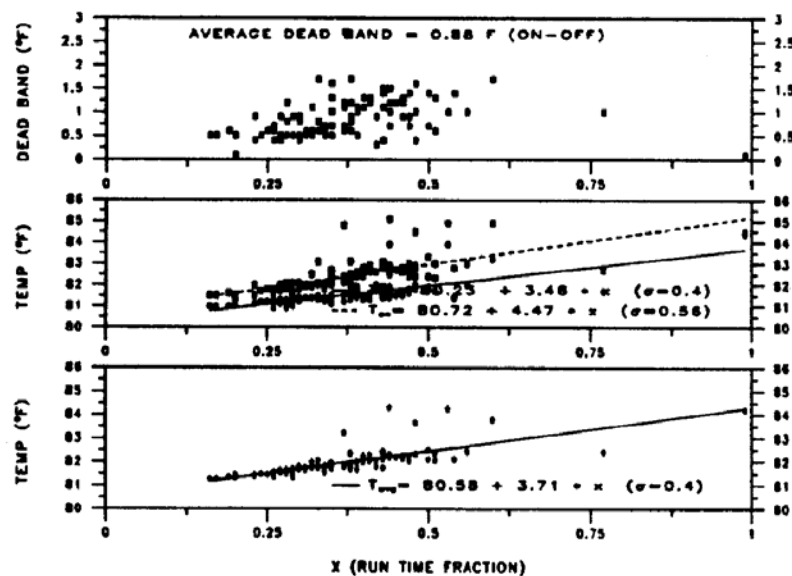


THERMOSTAT DATA: PARKER

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: SHIREY

START DATE: 7/20 OR 201 TIME: 20:27:30 JULEAN HR: 4820.46

END DATE: 7/22 OR 203 TIME: 17:39:35 JULEAN HR: 4865.66

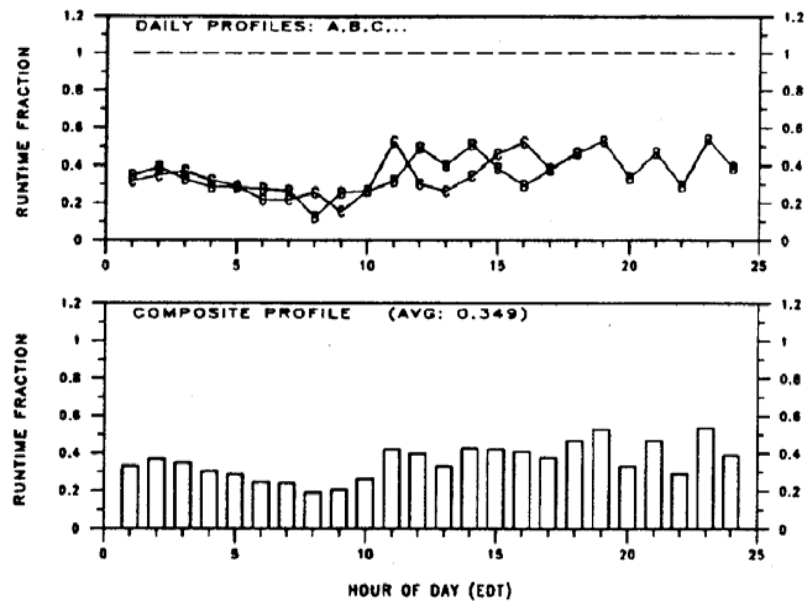
ELAPSED TIME: 45.20

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	81.95	81.90	81.98
AVERAGE RH (%)	63.33	63.26	63.36
HOURS	45.20	16.76	28.44
X HOURS		37.08	62.92

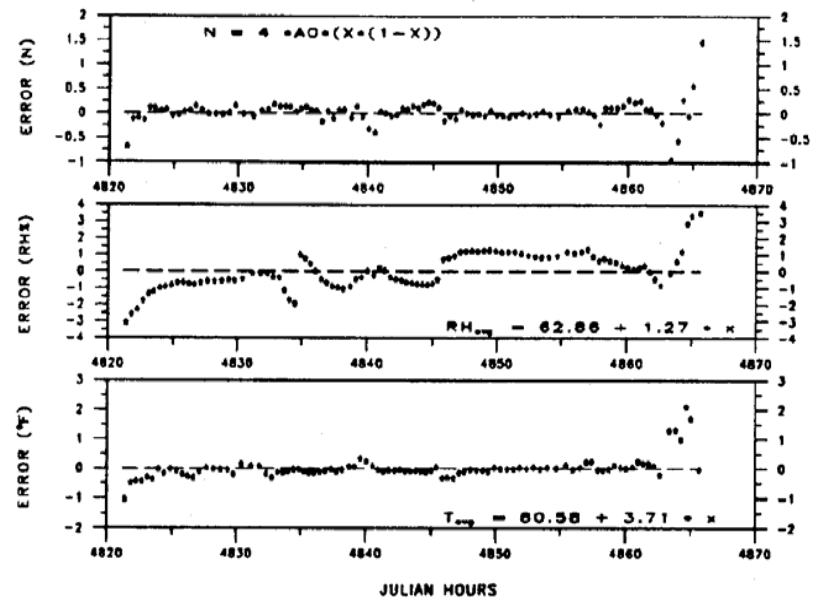
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: SHIREY

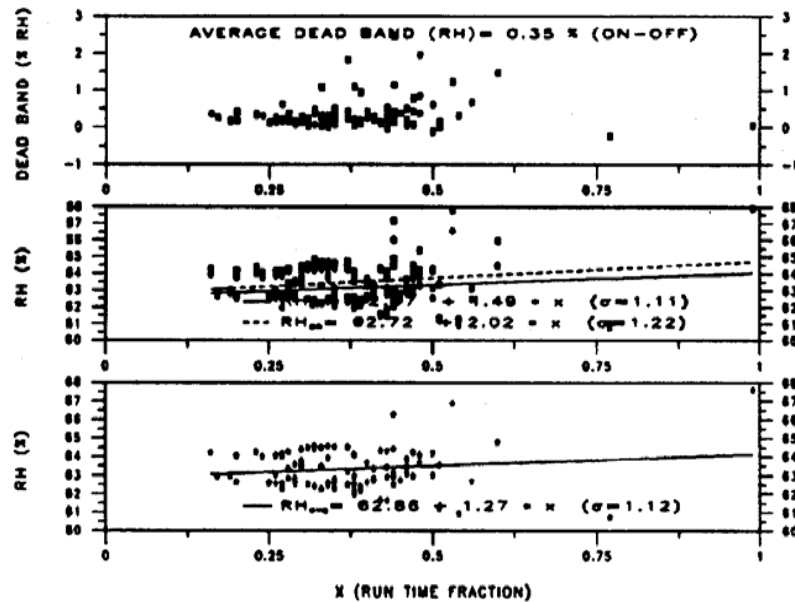
PLOT 4: RUN TIME PROFILES



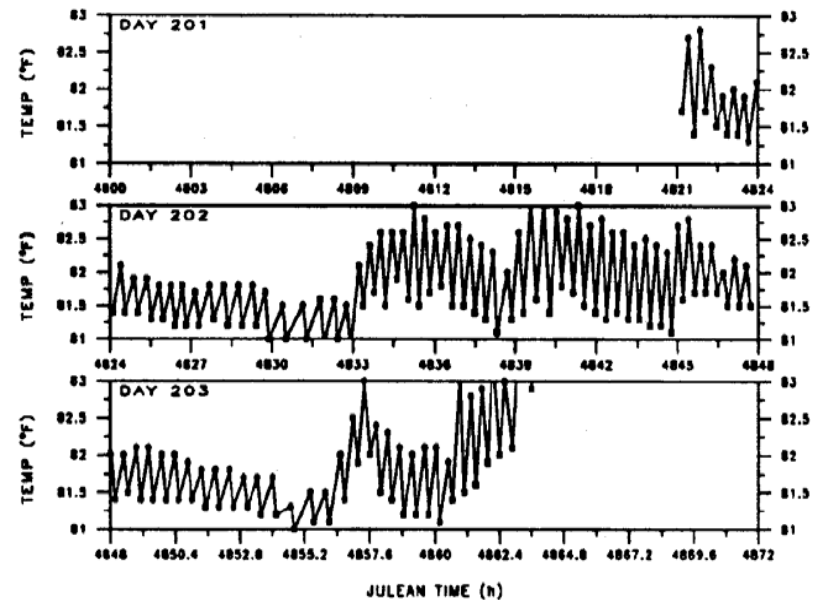
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

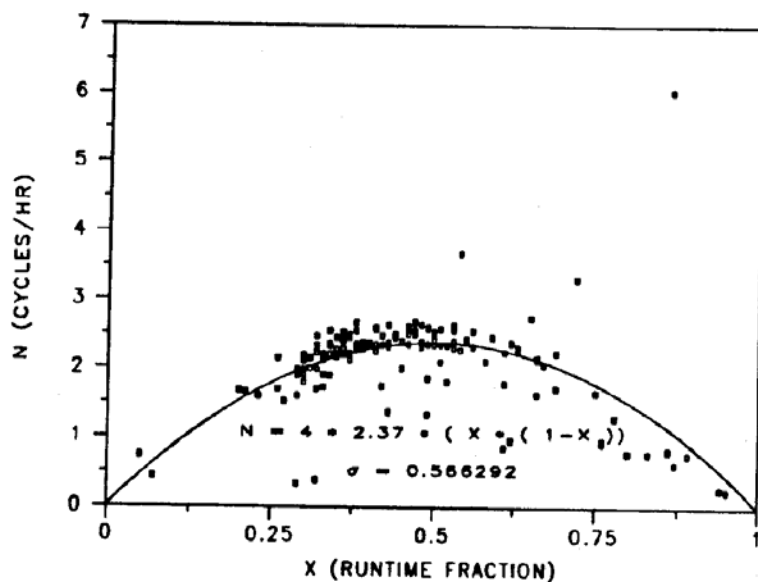
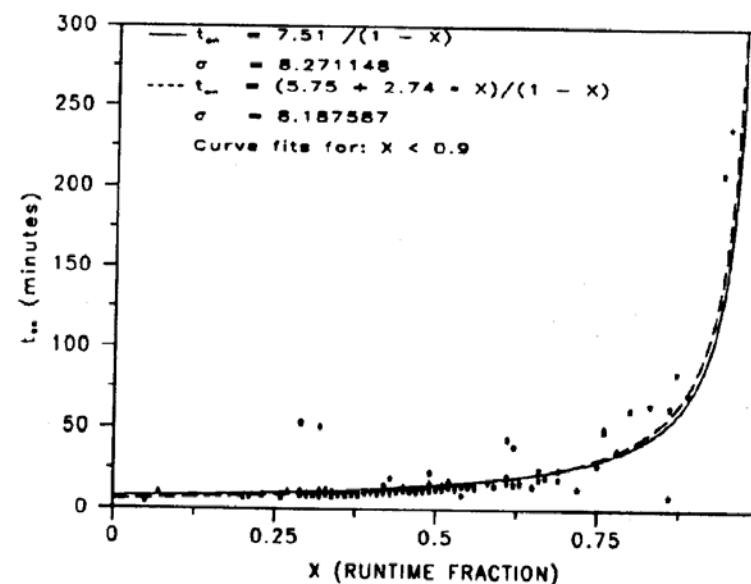


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

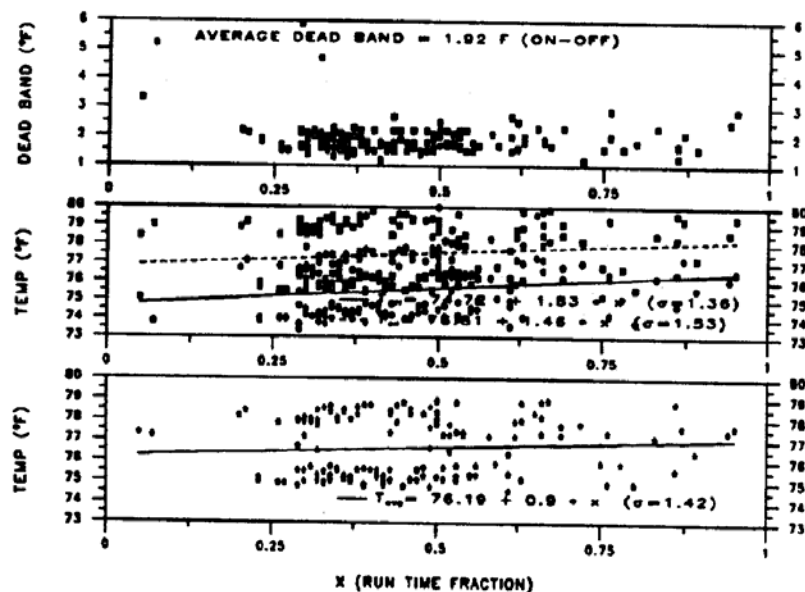


THERMOSTAT DATA: SHIREY

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: REDMOND

START DATE: 7/23 OR 204 TIME: 19: 9: 45 JULEAN HR: 4891.16

END DATE: 7/27 OR 208 TIME: 12: 25: 50 JULEAN HR: 4980.43

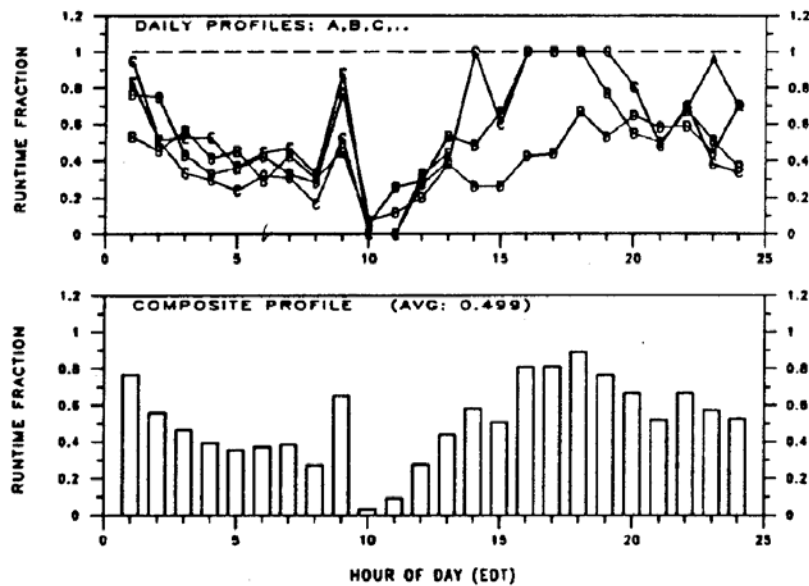
ELAPSED TIME: 89.27

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.66	76.46	76.85
AVERAGE RH (%)	47.97	47.44	48.51
HOURS	89.27	44.64	44.63
% HOURS		50.01	49.99

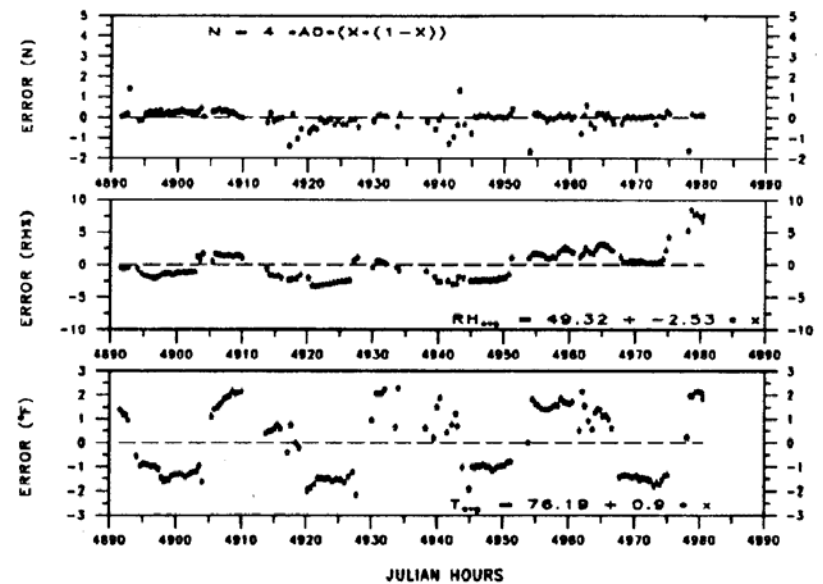
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: REDMOND

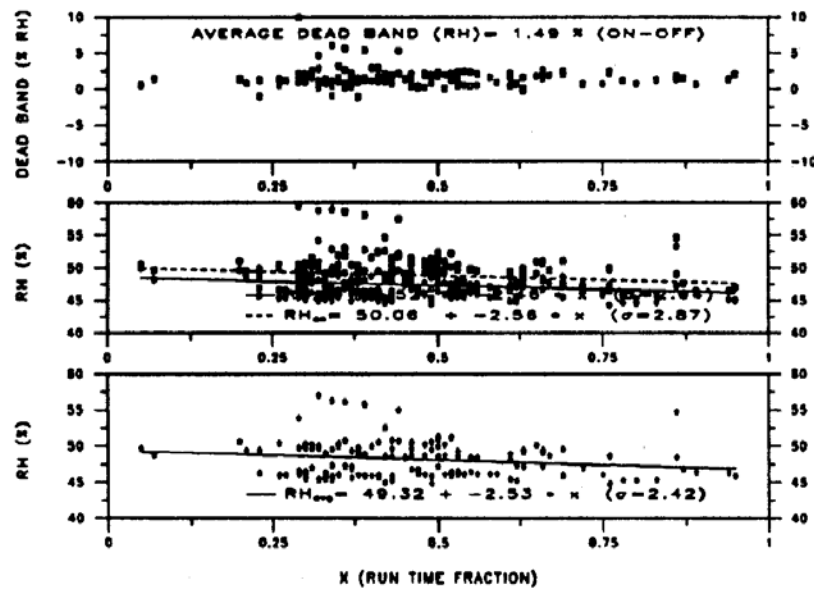
PLOT 4: RUN TIME PROFILES



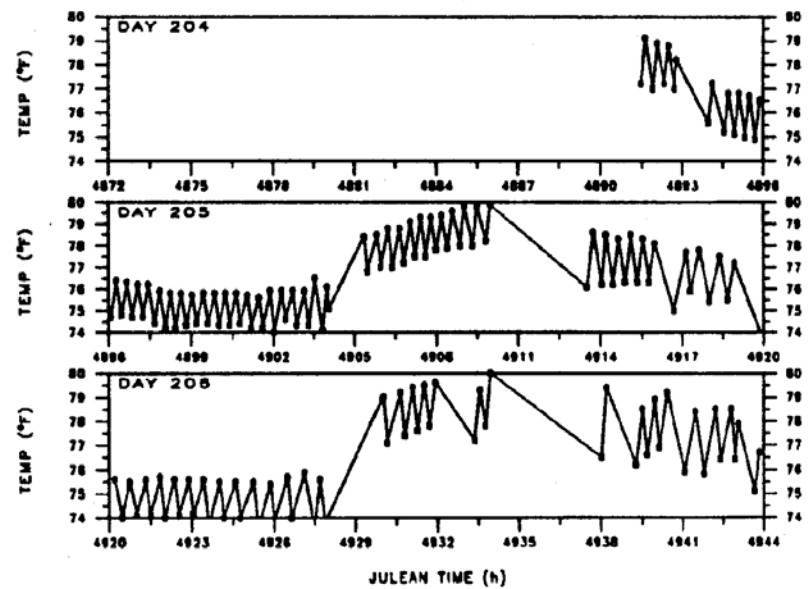
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

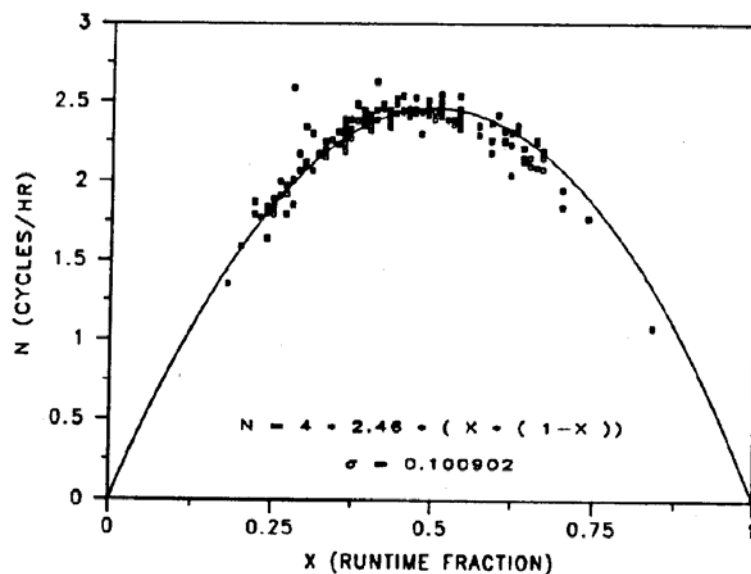
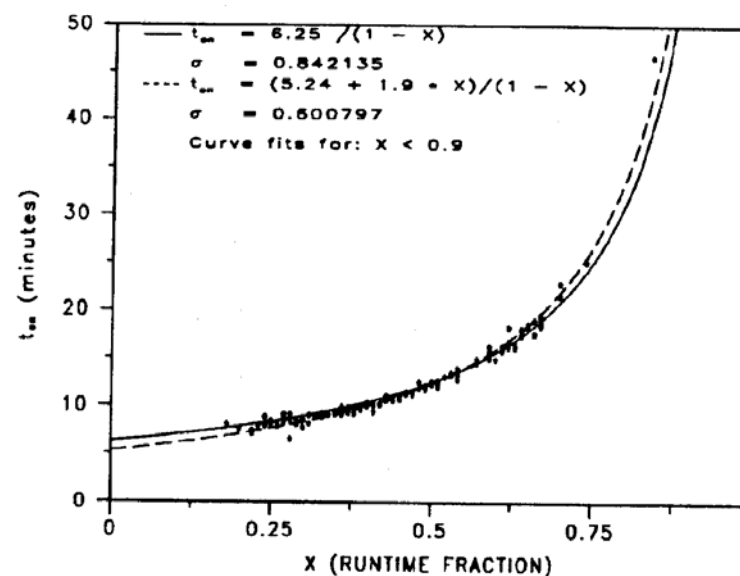


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

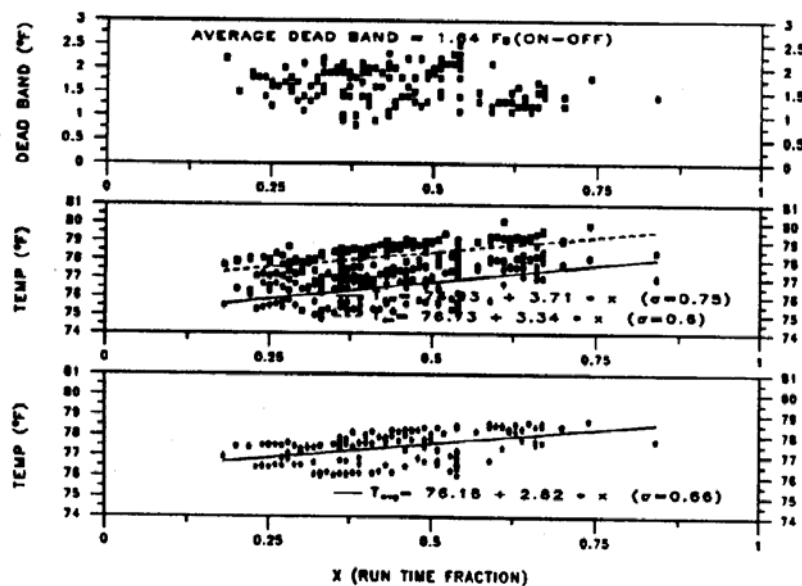


THERMOSTAT DATA: REDMOND

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: FAI REY1

START DATE: 7/27 OR 208 TIME: 18: 9: 20 JULEAN HR: 4986.16

END DATE: 7/30 OR 211 TIME: 11: 26: 25 JULEAN HR: 5051.44

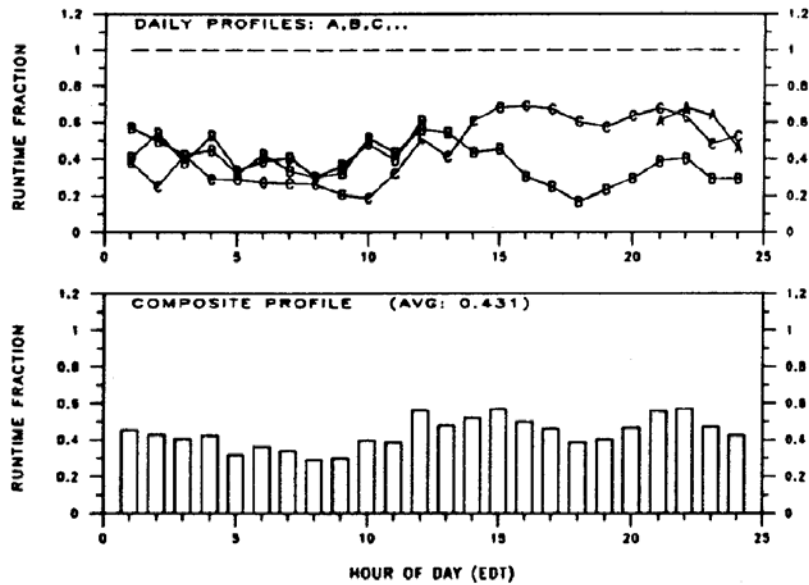
ELAPSED TIME: 65.28

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	77.40	77.37	77.42
AVERAGE RH (%)	58.46	58.12	58.72
HOURS	65.28	28.65	36.64
% HOURS		43.88	56.12

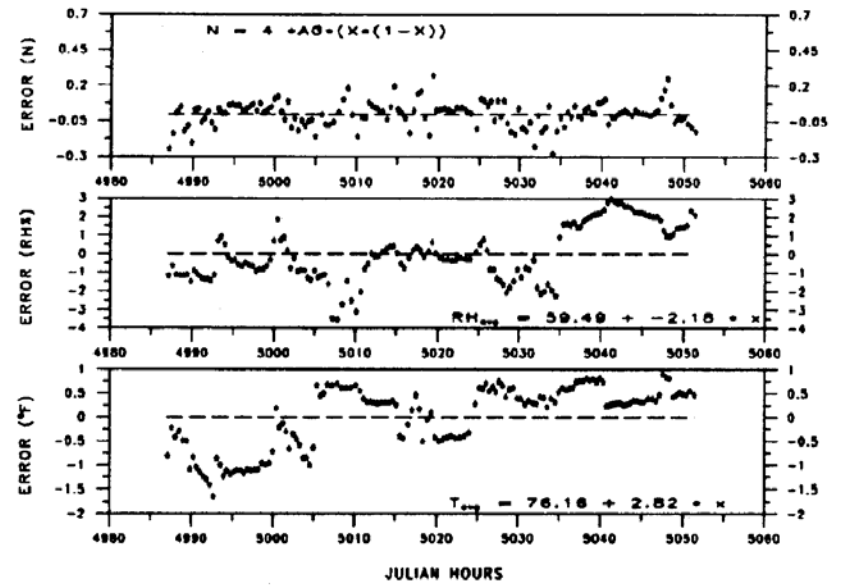
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: FAIREY1

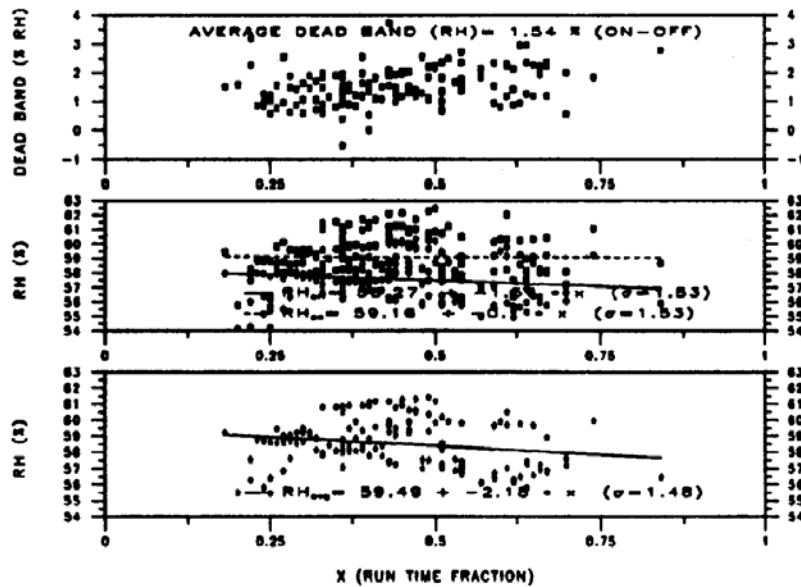
PLOT 4: RUN TIME PROFILES



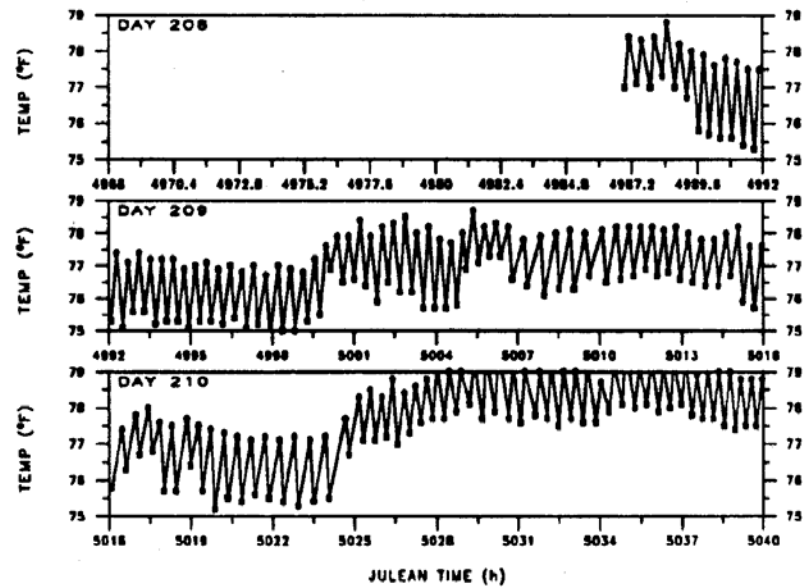
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

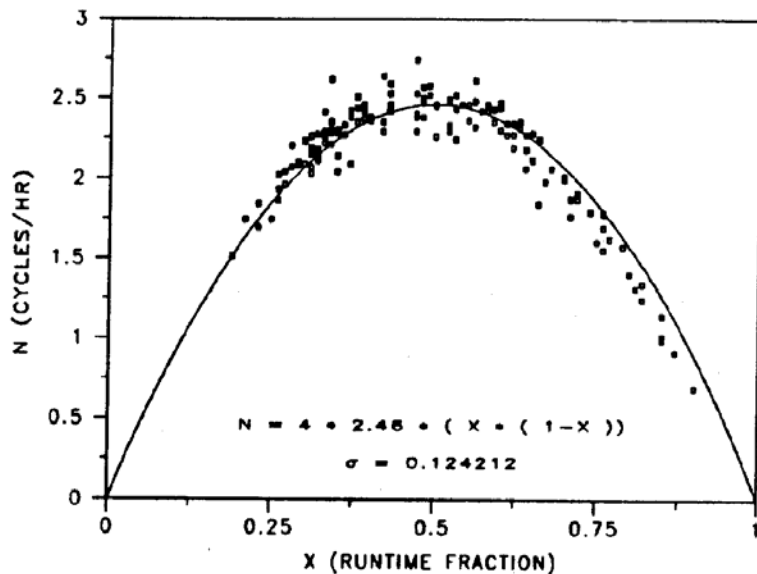
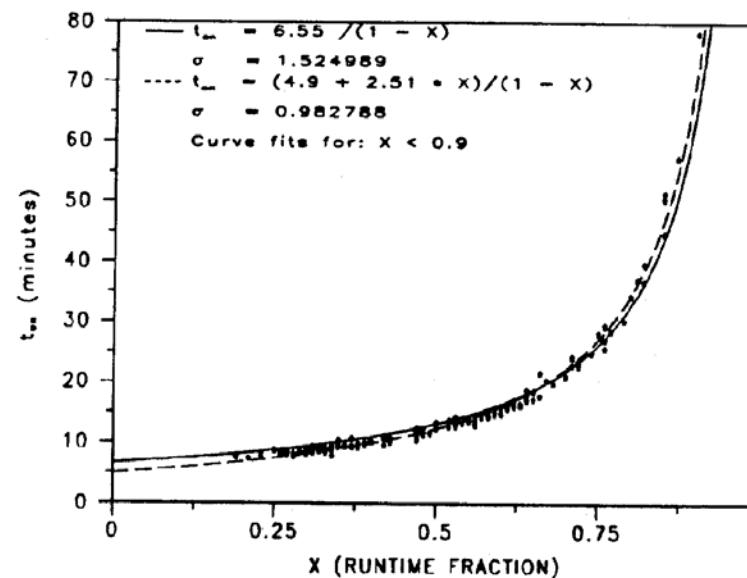


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

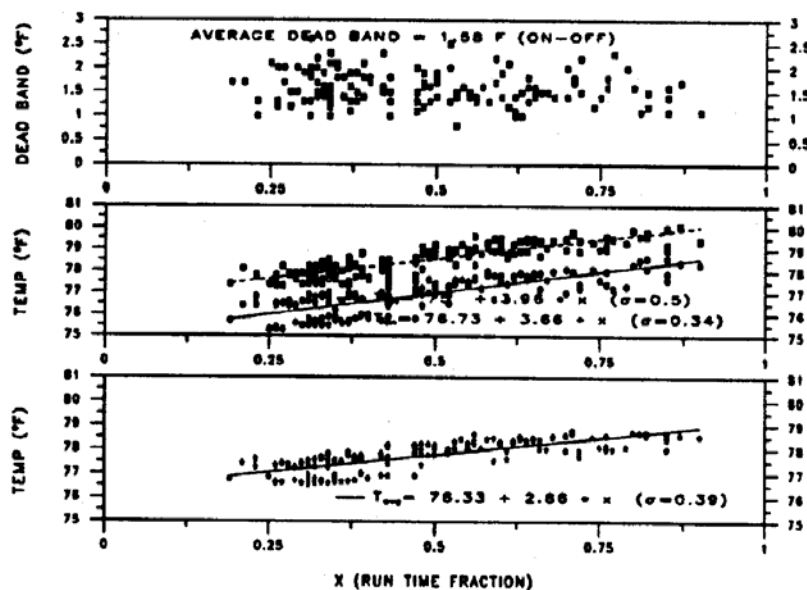


THERMOSTAT DATA: FAIREY1

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: FAIREY2

START DATE: 7/30 OR 211 TIME: 20:18:55 JULEAN HR: 5060.28

END DATE: 8/2 OR 214 TIME: 17:48:5 JULEAN HR: 5129.77

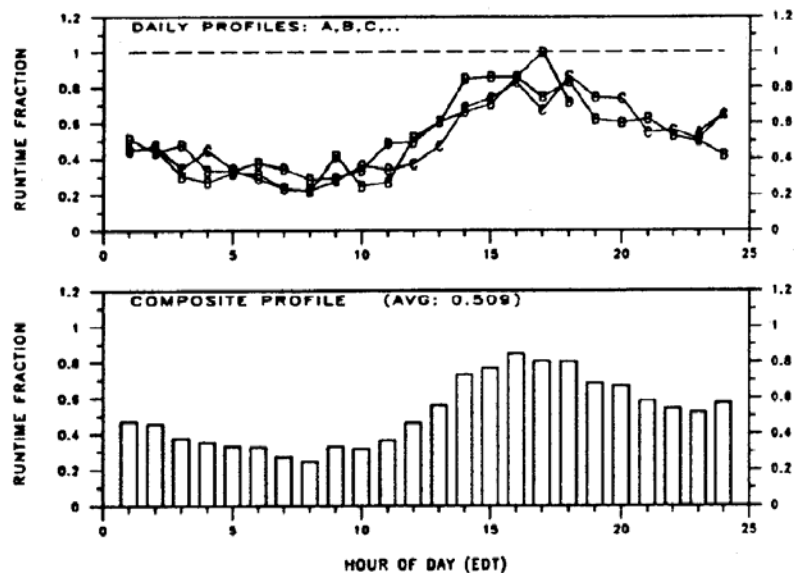
ELAPSED TIME: 69.49

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	77.77	77.85	77.69
AVERAGE RH (%)	54.85	54.35	55.38
HOURS	69.49	35.74	33.74
% HOURS		51.44	48.56

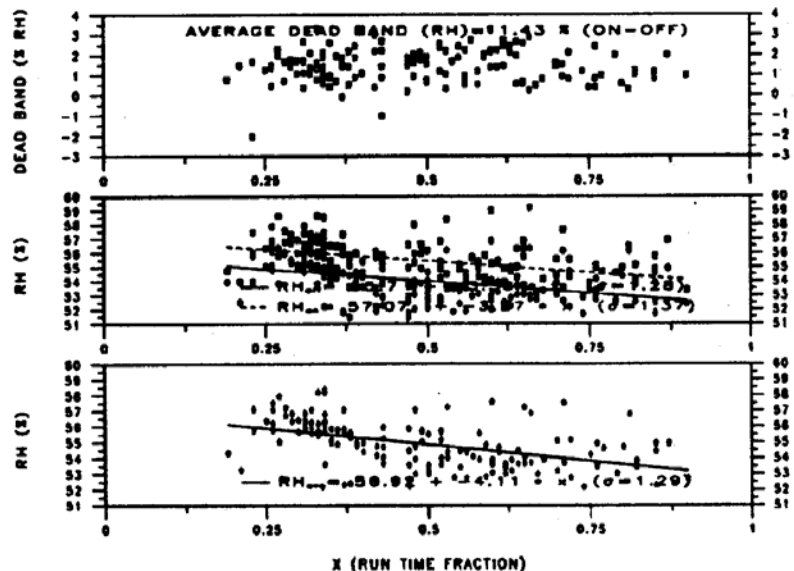
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: FAIREY2

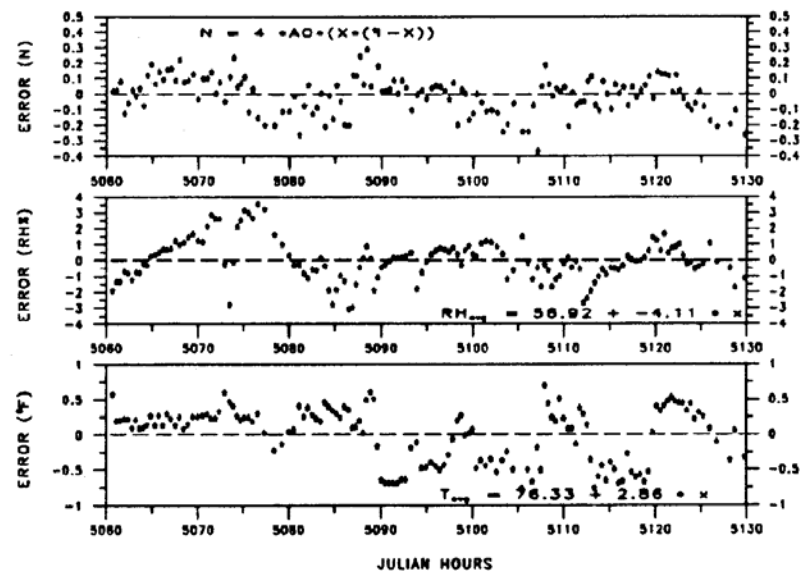
PLOT 4: RUN TIME PROFILES



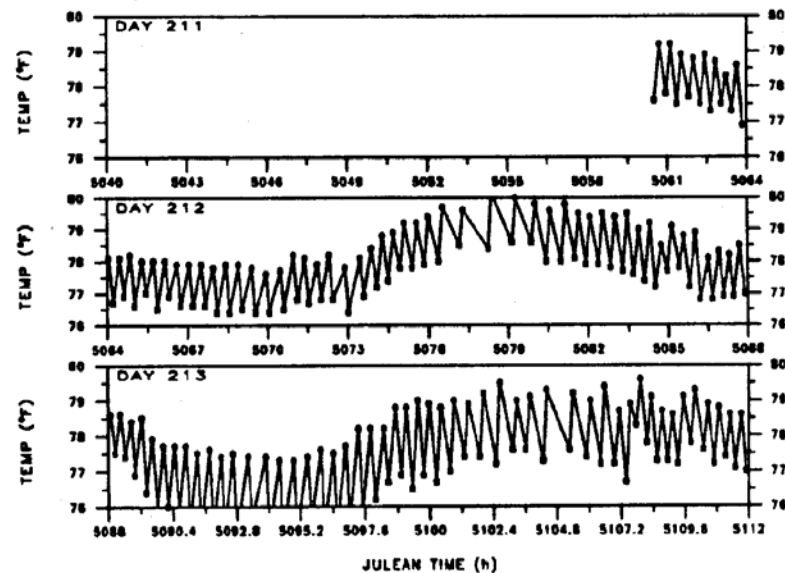
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

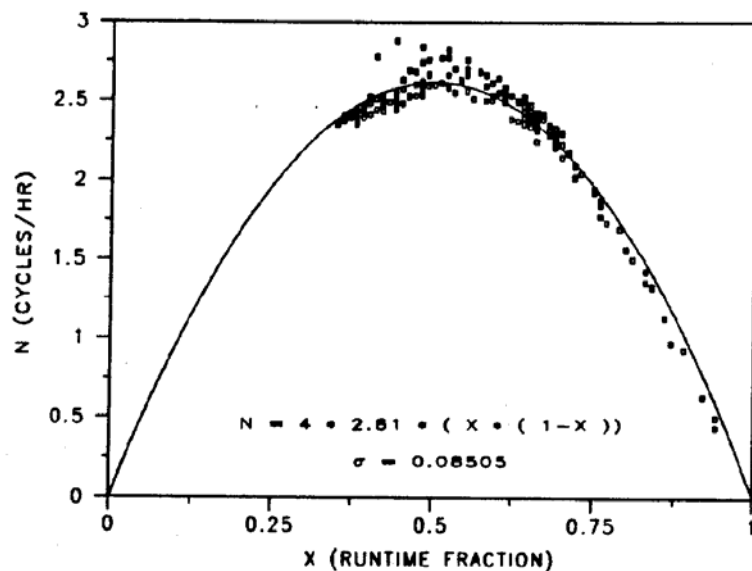
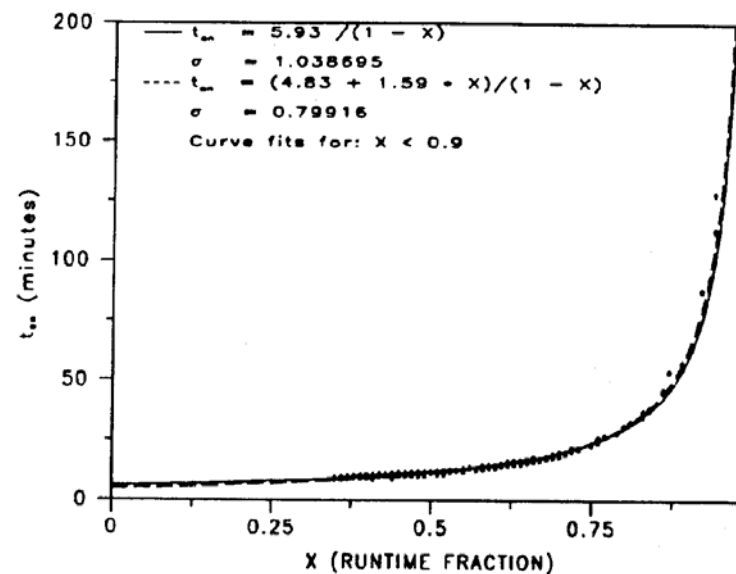


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

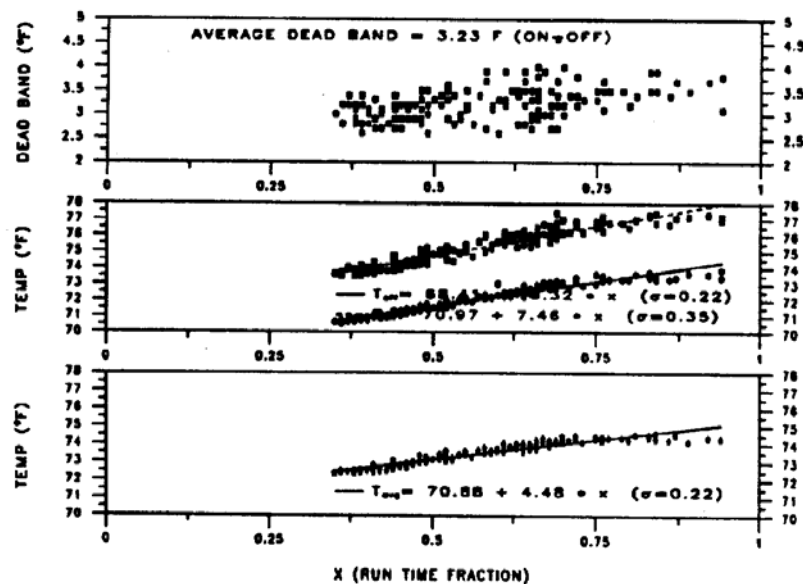


THERMOSTAT DATA: FAIREY2

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: KETTLES

START DATE: 8/ 4 OR 216 TIME: 9: 19: 55 JULEAN HR: 5169.33

END DATE: 8/ 7 OR 219 TIME: 7: 32: 55 JULEAN HR: 5239.55

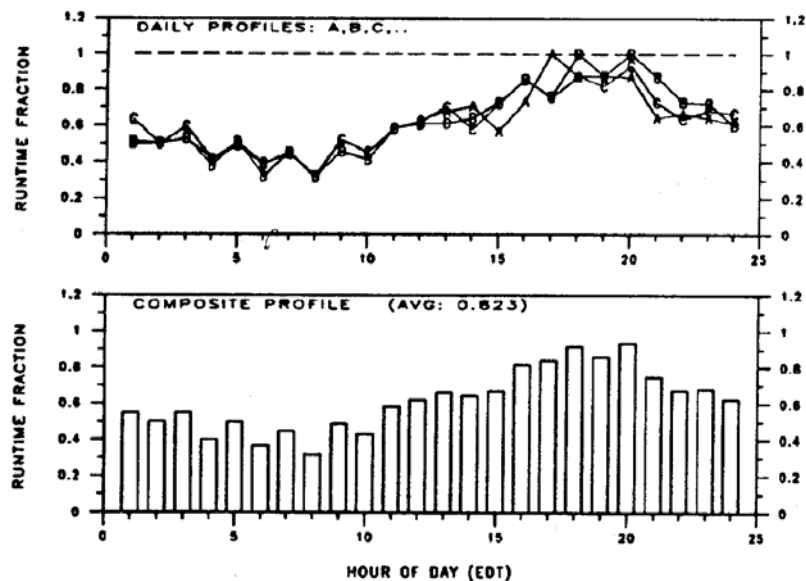
ELAPSED TIME: 70.22

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	73.60	73.29	74.10
AVERAGE RH (%)	49.80	49.78	49.85
HOURS	70.22	43.70	26.52
X HOURS		62.23	37.77

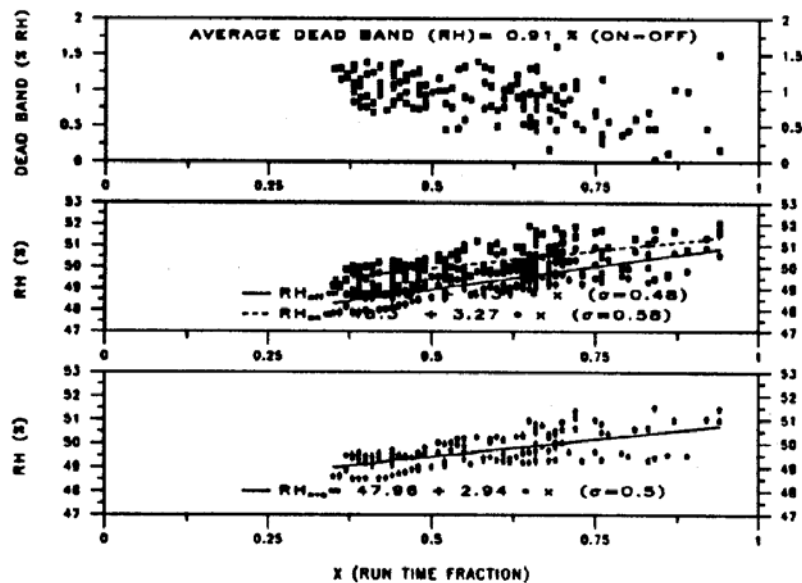
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: KETTLES

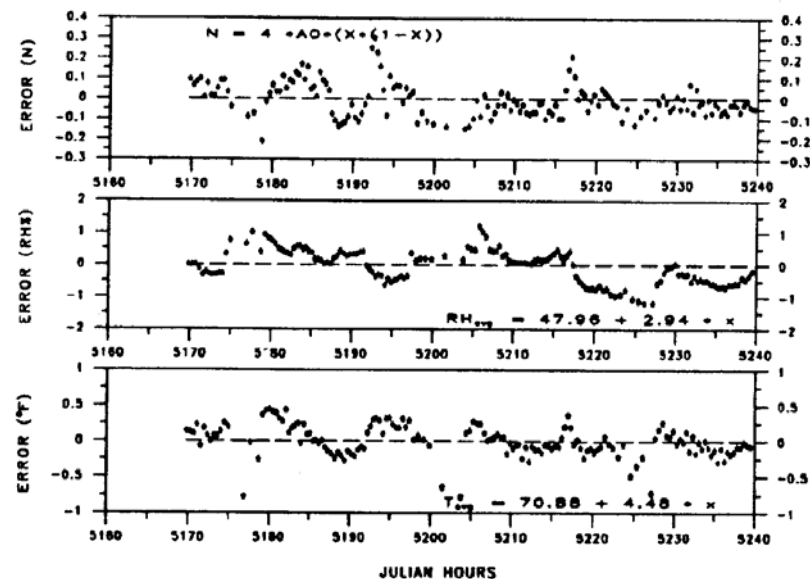
PLOT 4: RUN TIME PROFILES



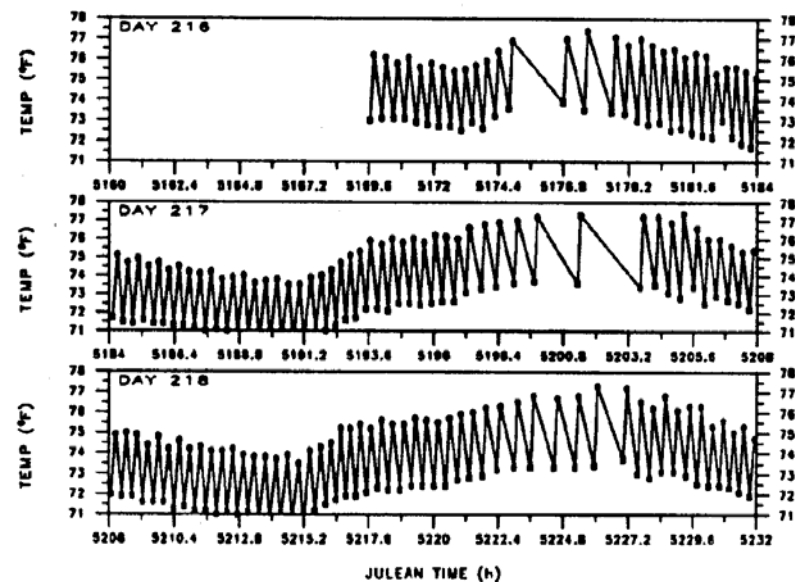
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

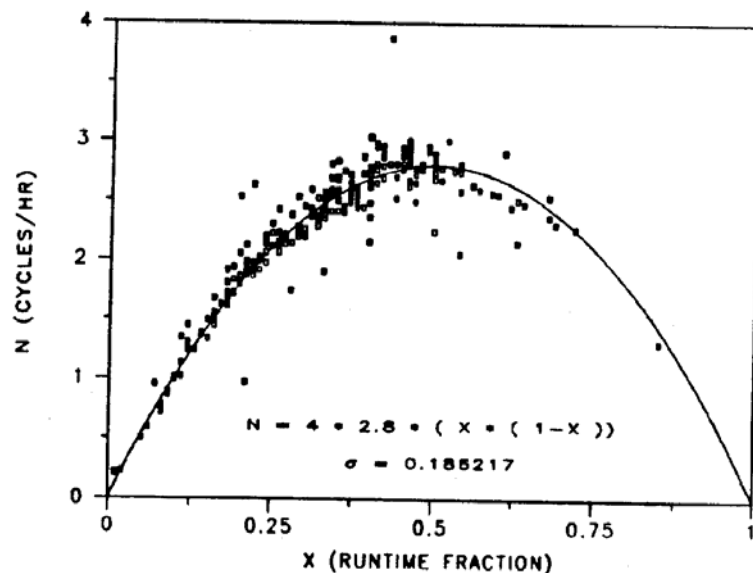
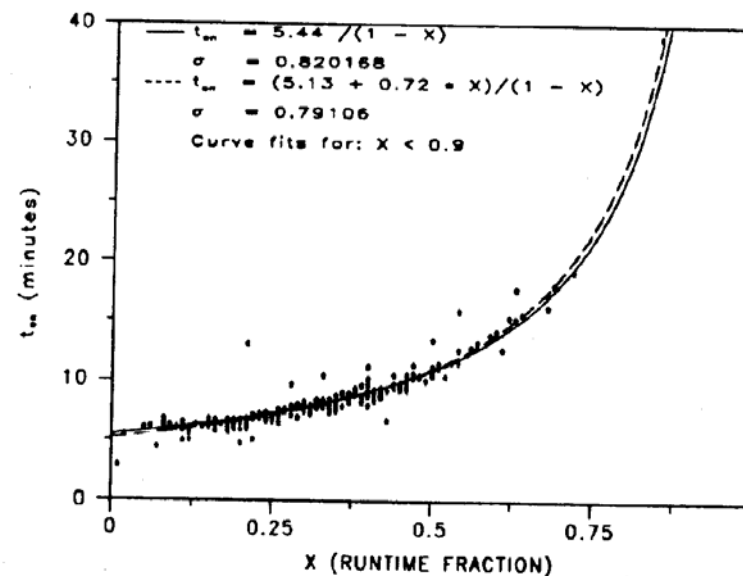


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

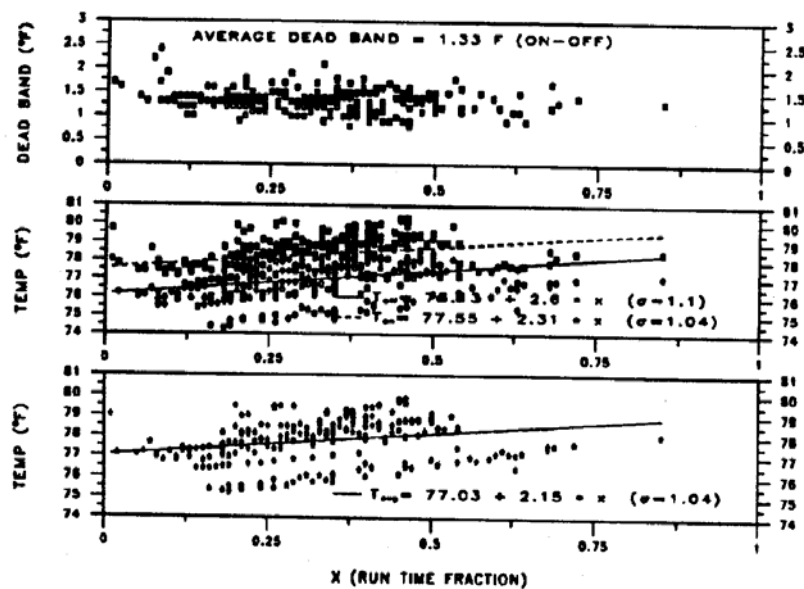


THERMOSTAT DATA: KETTLES

PLOT 1: CYCLING

PLOT 2: t_m 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: MELODY

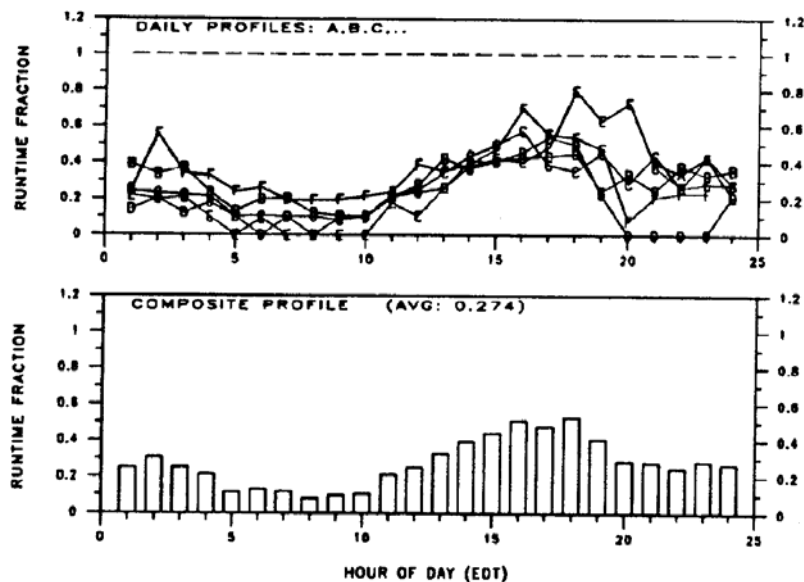
START DATE: 8/ 8 OR 220 TIME: 18: 1: 25 JULEAN HR: 5274.02
 END DATE: 8/13 OR 225 TIME: 23: 19: 20 JULEAN HR: 5399.32
 ELAPSED TIME: 125.30

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	77.85	77.85	77.57
AVERAGE RH (%)	56.45	55.30	56.89
HOURS	125.30	34.35	90.95
% HOURS		27.41	72.59

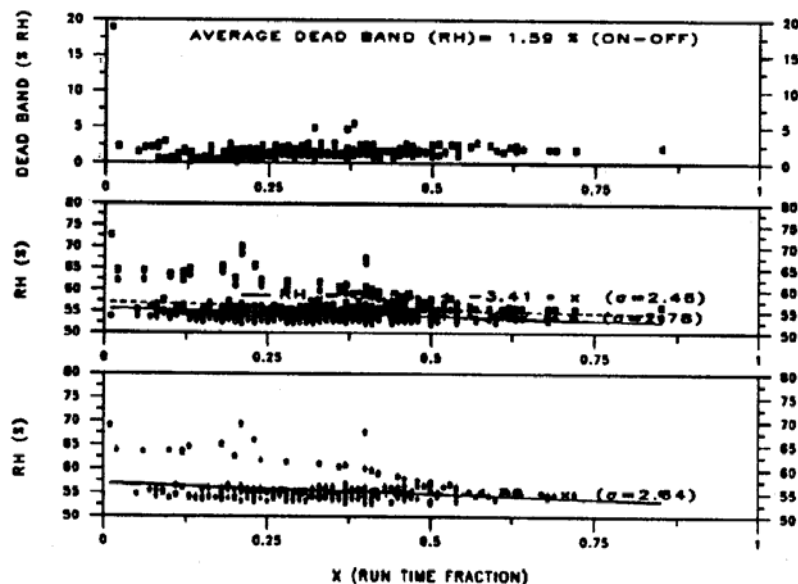
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: MELODY

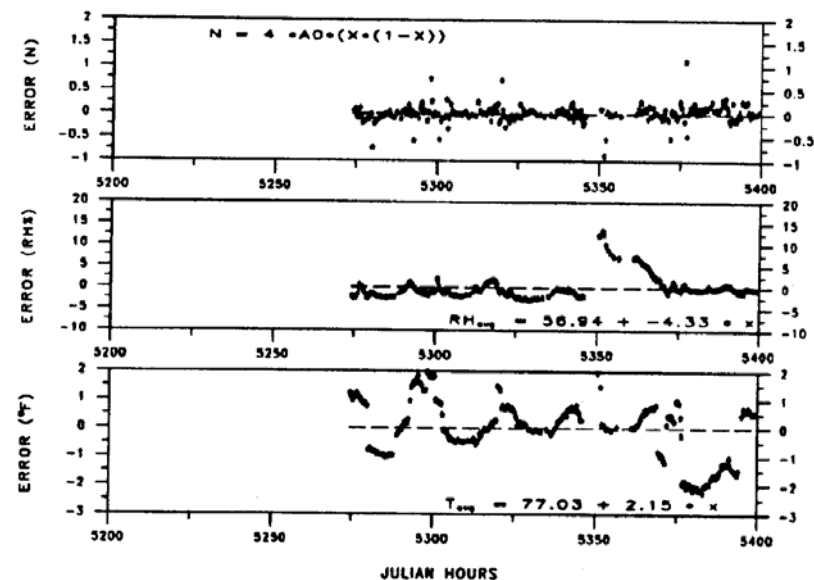
PLOT 4: RUN TIME PROFILES



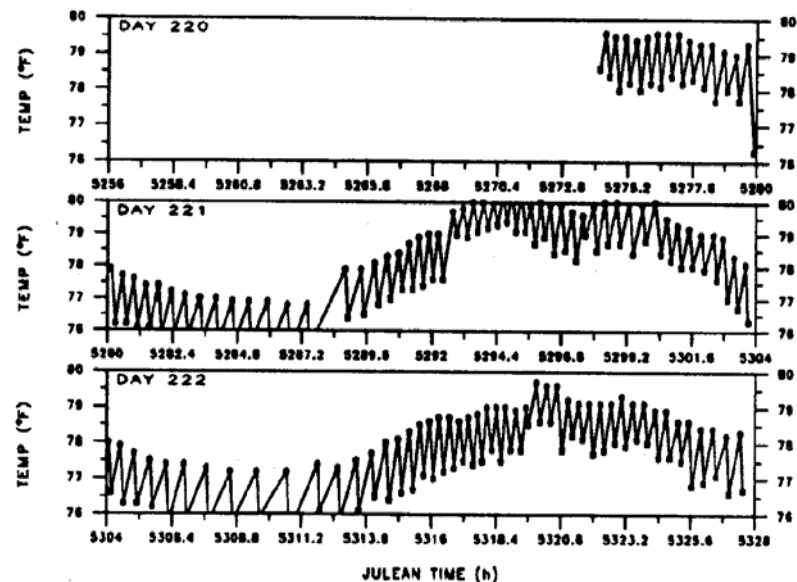
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

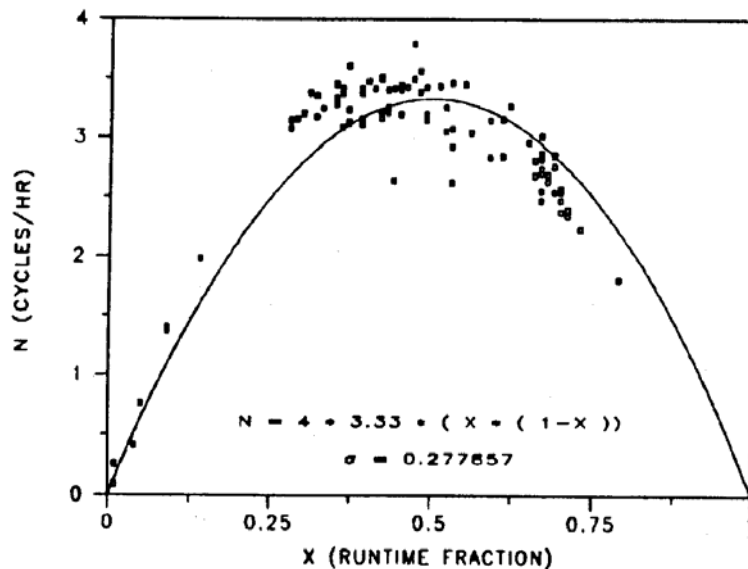
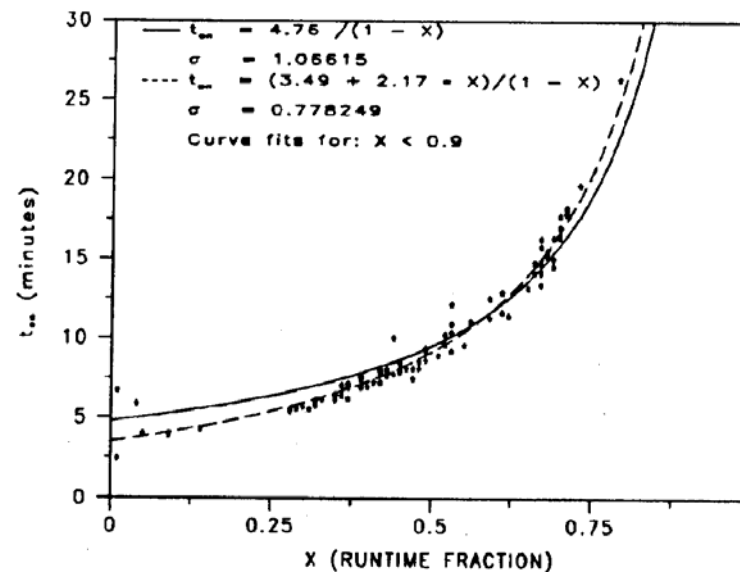


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

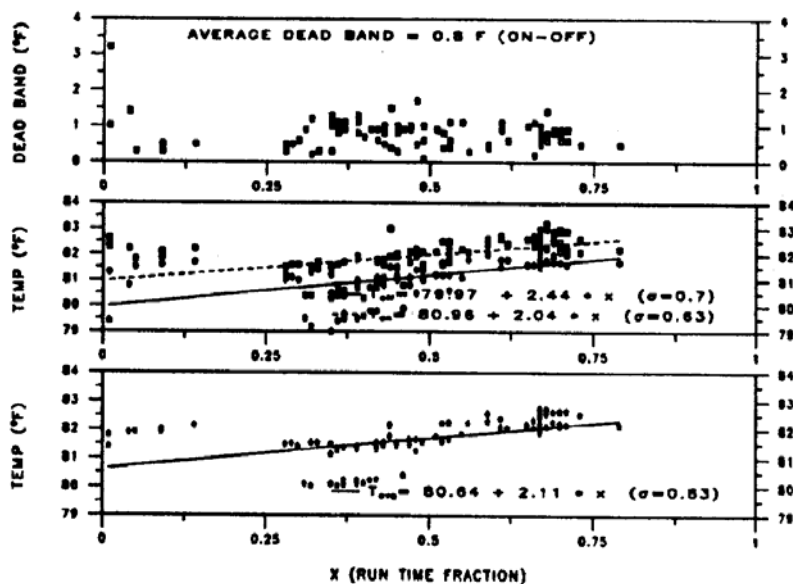


THERMOSTAT DATA: MELODY

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: DHERE

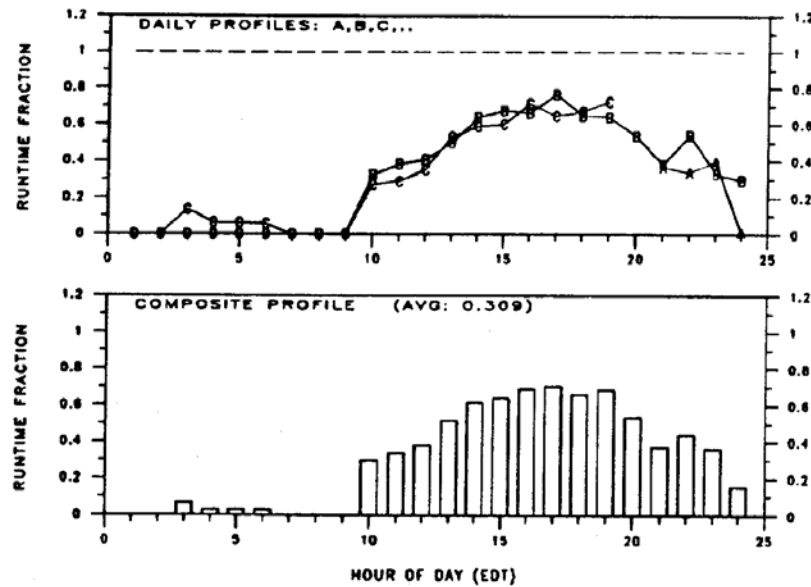
START DATE: 8/14 OR 226 TIME: 17:58:50 JULEAN HR: 5417.98
 END DATE: 8/16 OR 226 TIME: 18:12:55 JULEAN HR: 5466.22
 ELAPSED TIME: 48.23

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	81.66	81.69	81.55
AVERAGE RH (%)	59.89	59.73	59.96
HOURS	48.23	15.13	33.11
* HOURS		31.36	68.64

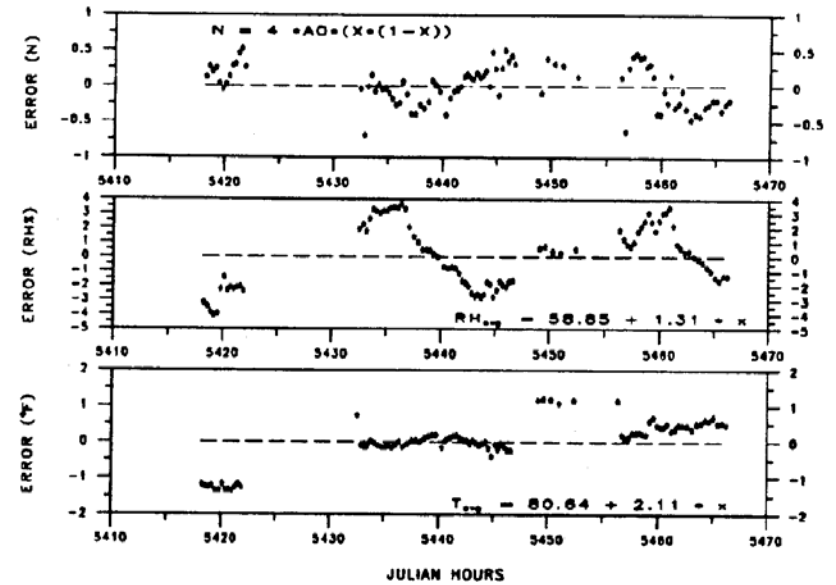
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: DHERE

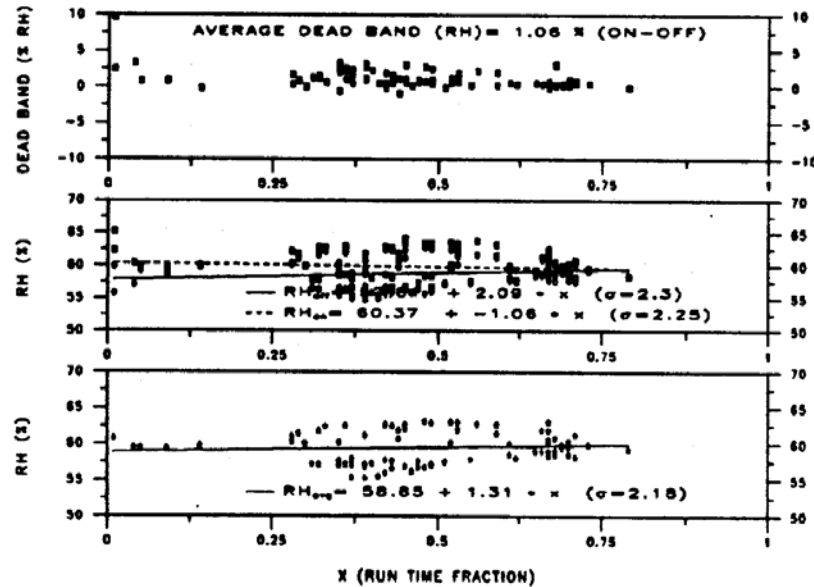
PLOT 4: RUN TIME PROFILES



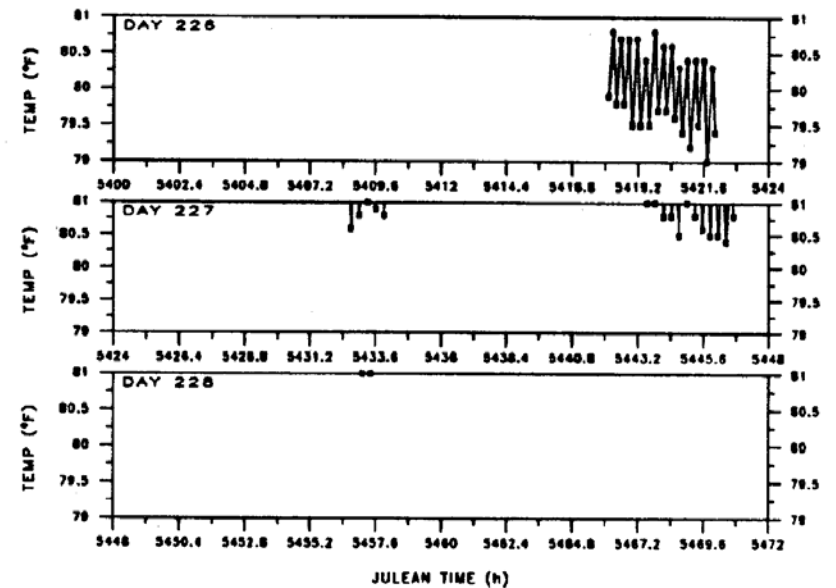
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

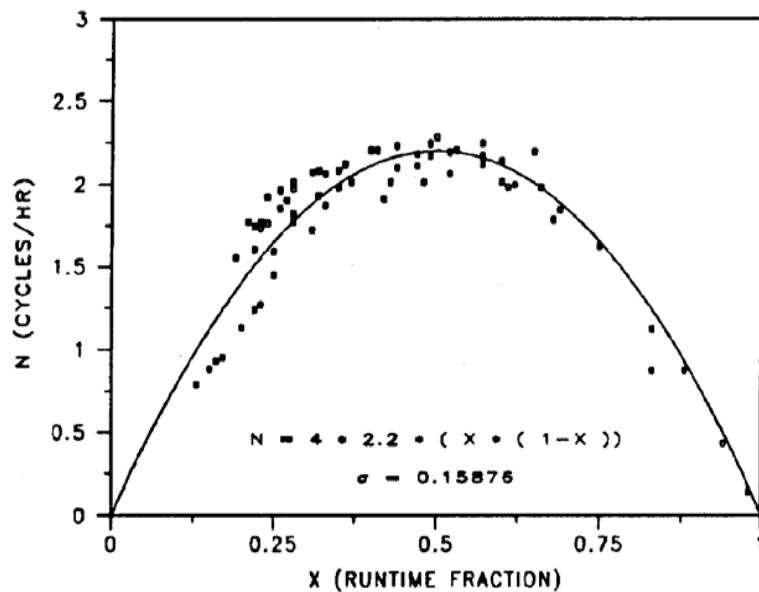
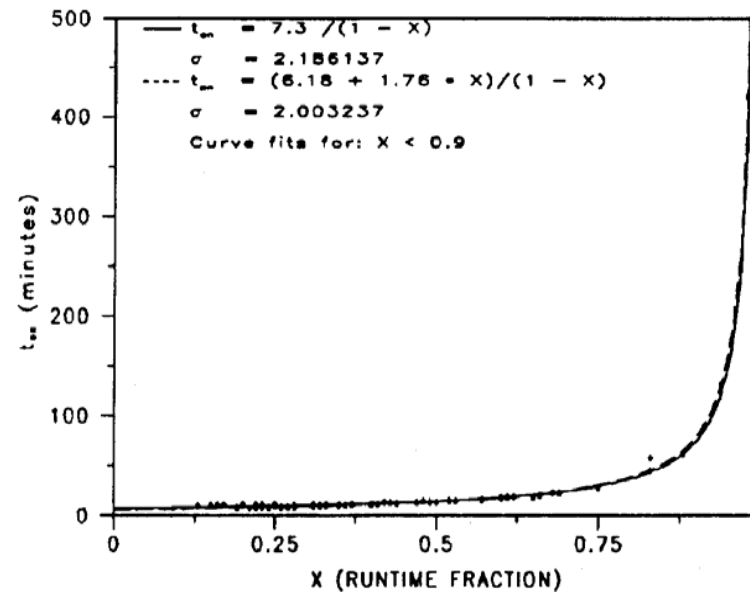


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

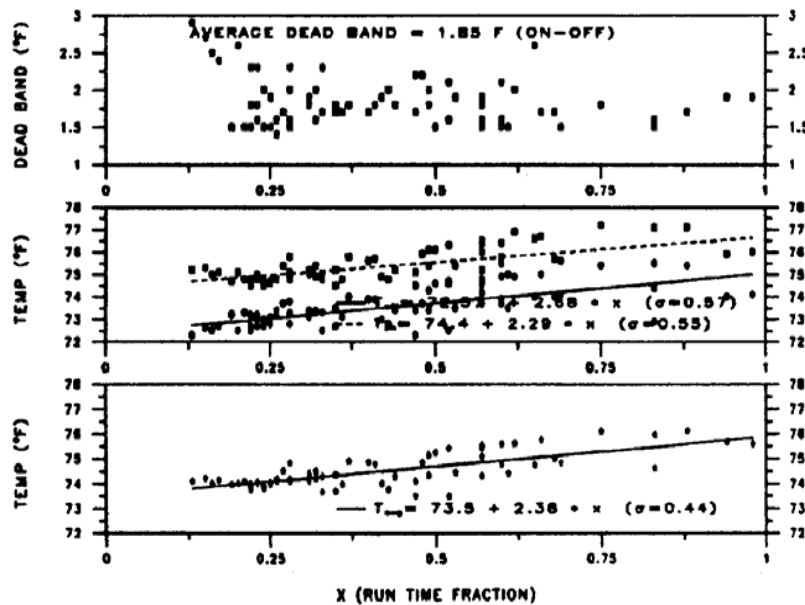


THERMOSTAT DATA: DHERE

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: DUTTON

START DATE: 8/18 OR 230 TIME: 17:16:15 JULEAN HR: 5513.27

END DATE: 8/20 OR 232 TIME: 17:28:15 JULEAN HR: 5561.47

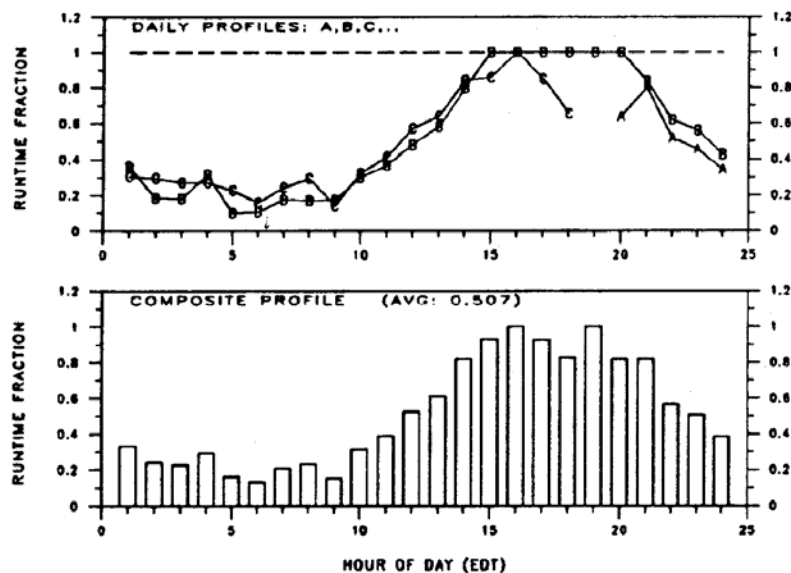
ELAPSED TIME: 48.20

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	74.89	75.00	74.37
AVERAGE RH (%)	70.03	67.00	73.19
HOURS	48.20	24.63	23.57
% HOURS		51.10	48.90

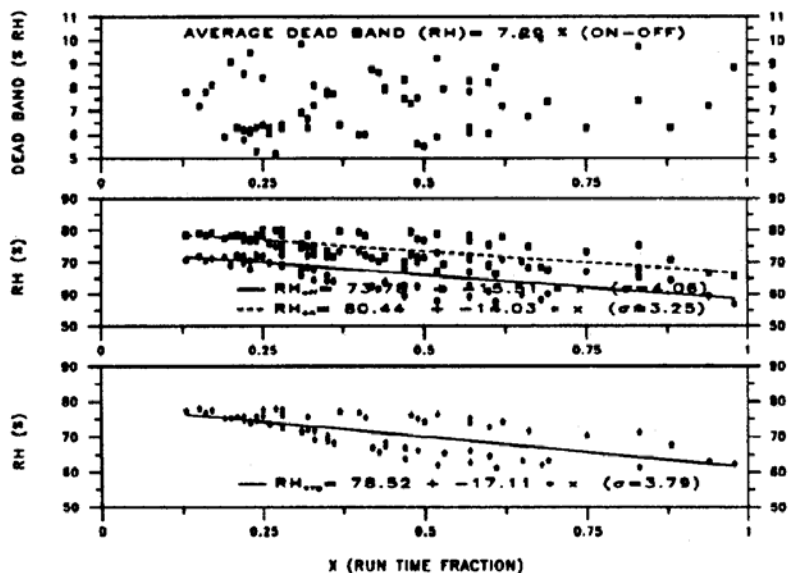
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: DUTTON

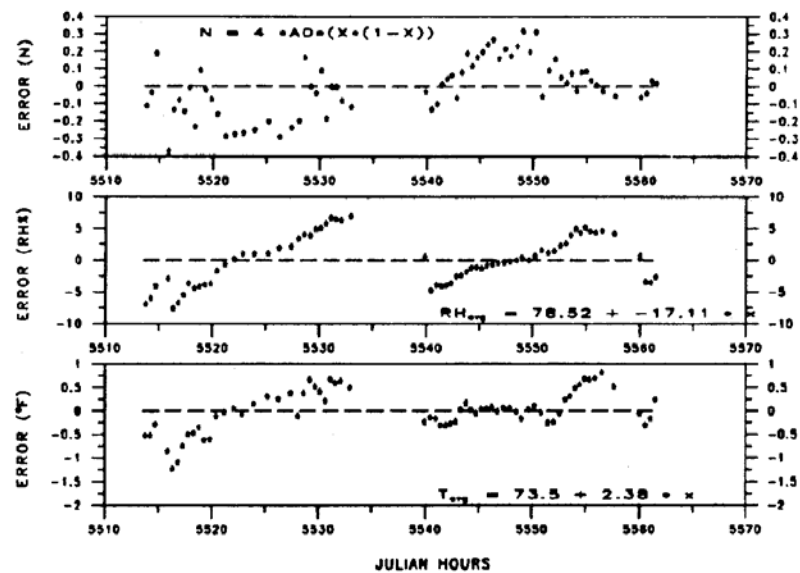
PLOT 4: RUN TIME PROFILES



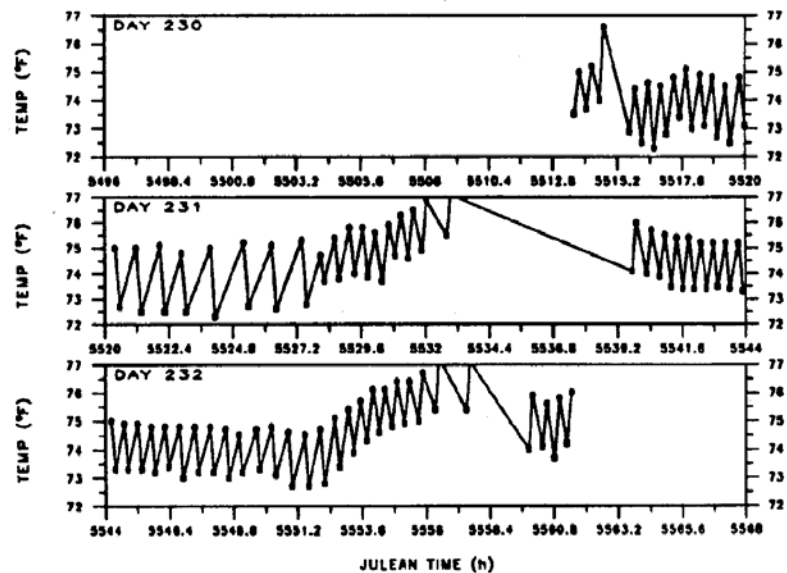
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

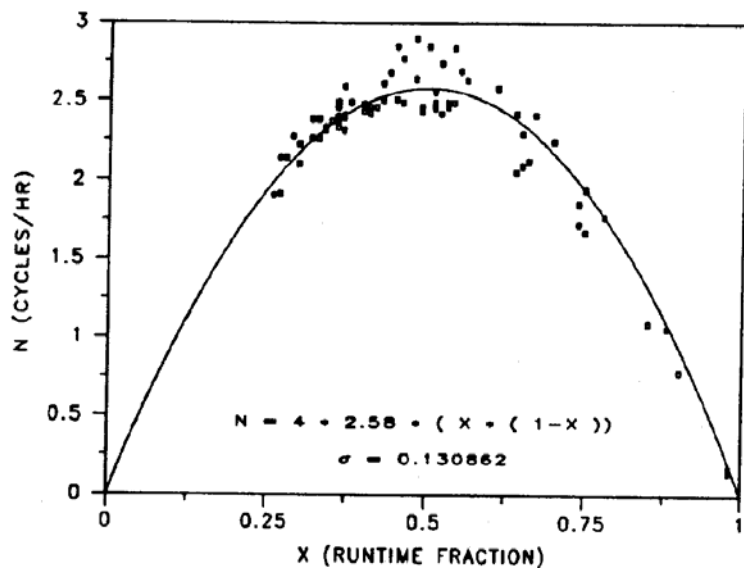
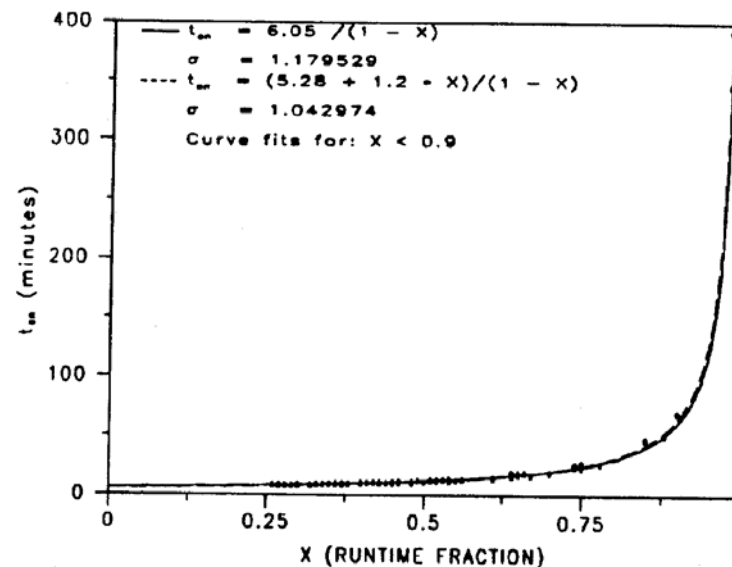


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

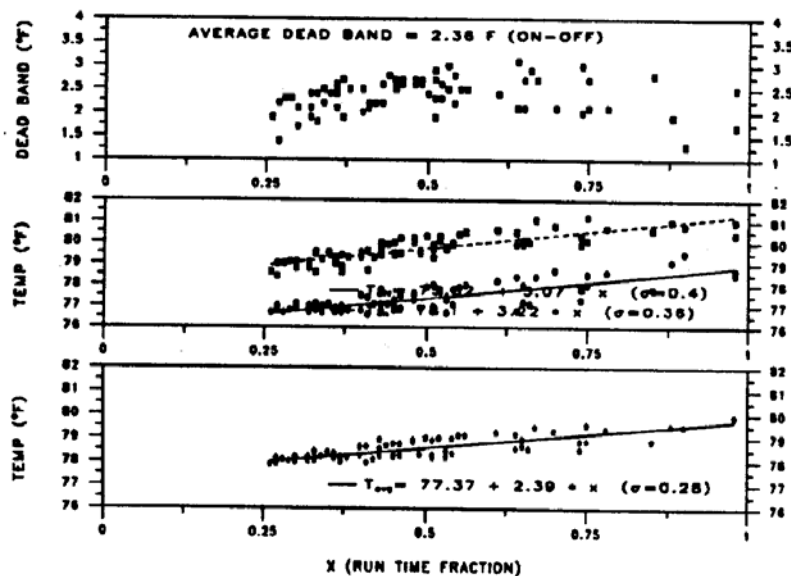


THERMOSTAT DATA: DUTTON

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

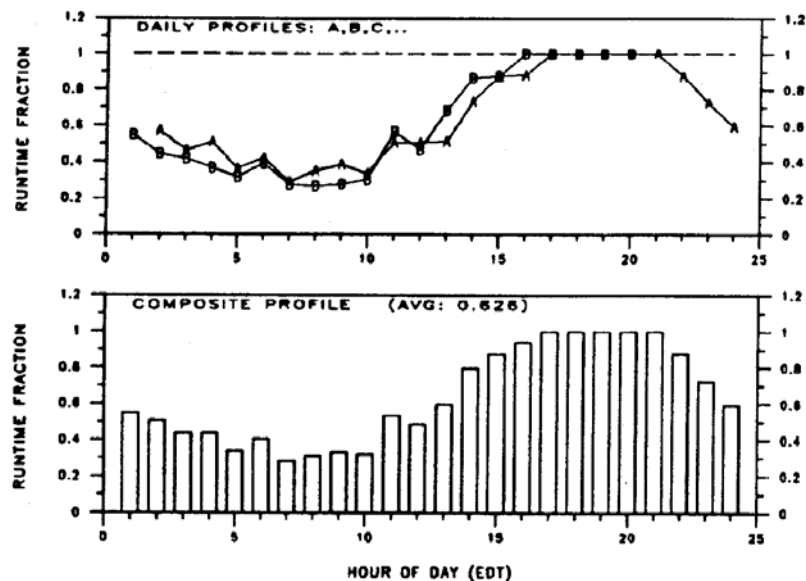
LOCATION: DERNIER
 START DATE: 8/21 OR 233 TIME: 22:39:20 JULEAN HR: 5590.66
 END DATE: 8/23 OR 235 TIME: 19:55:25 JULEAN HR: 5635.92
 ELAPSED TIME: 45.27

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	78.92	78.98	78.86
AVERAGE RH (%)	63.53	63.13	64.23
HOURS	45.27	28.75	16.52
% HOURS		63.52	36.48

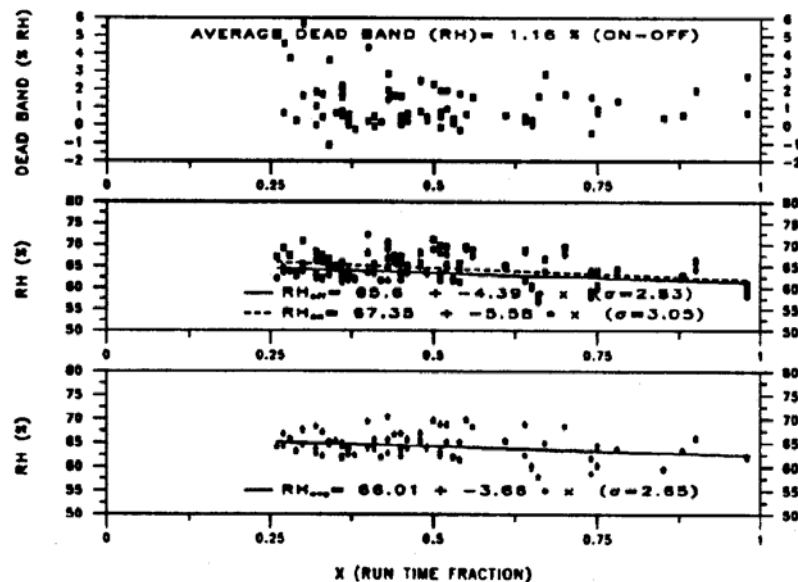
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: DERNIER

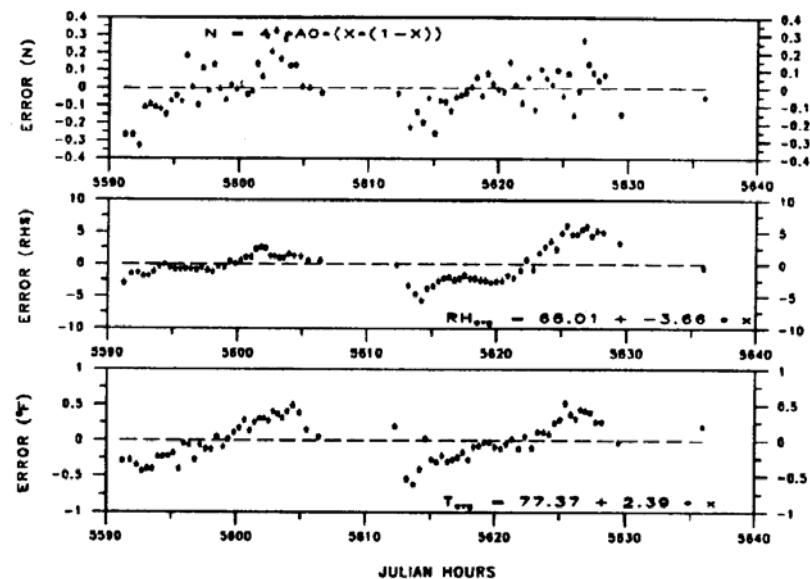
PLOT 4: RUN TIME PROFILES



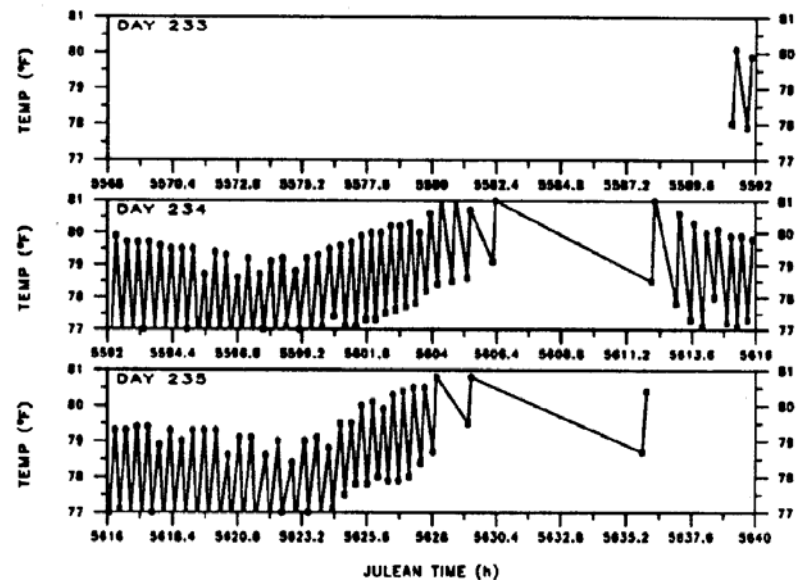
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

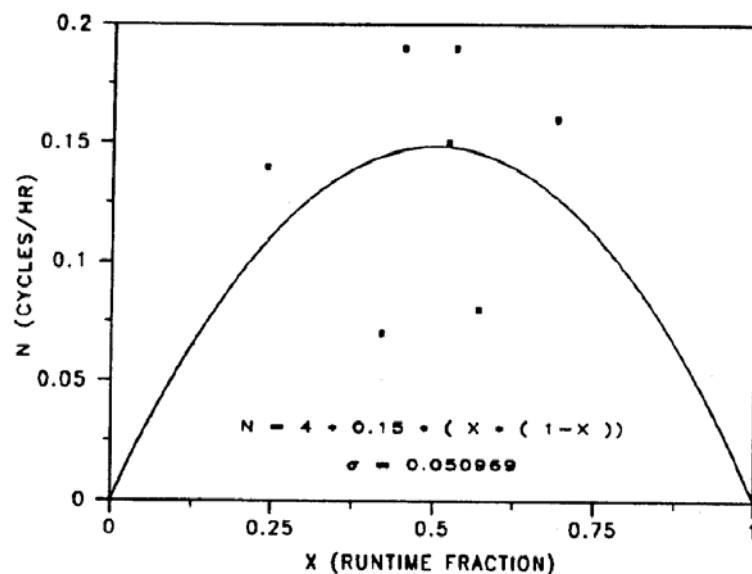
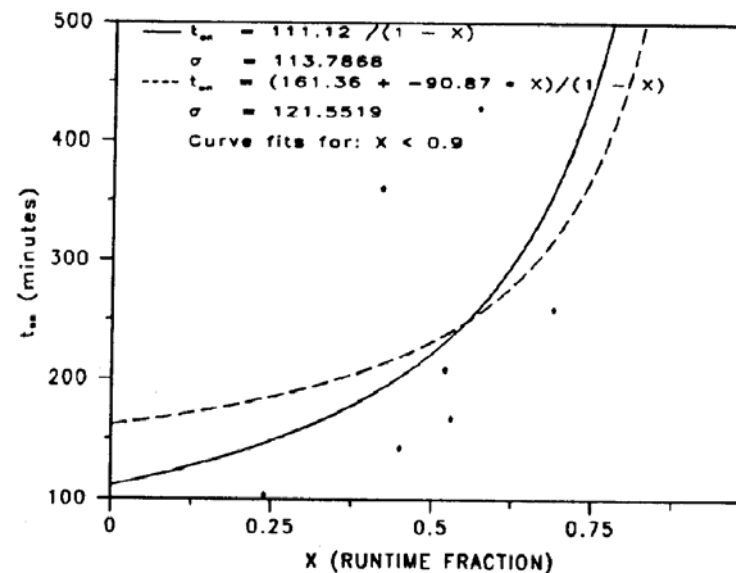


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

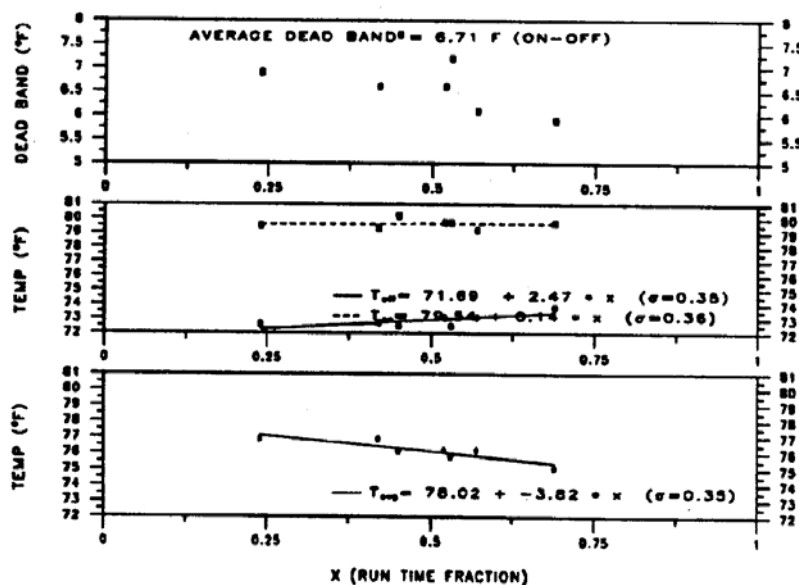


THERMOSTAT DATA: DERNIER

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: VIEIRA1

START DATE: 8/25 OR 237 TIME: 8:54:50 JULEAN HR: 5672.91

END DATE: 8/27 OR 239 TIME: 18:19:0 JULEAN HR: 5730.32

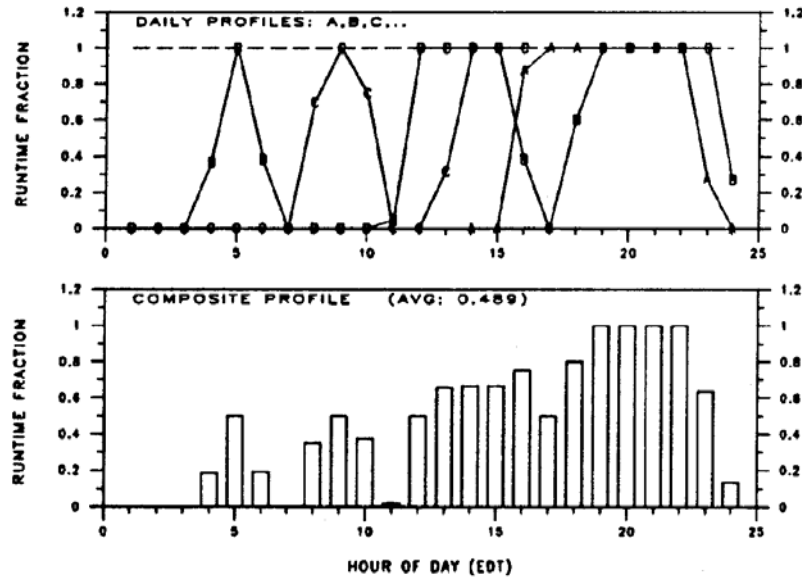
ELAPSED TIME: 57.40

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.27	74.37	78.05
AVERAGE RH (%)	56.77	56.27	57.23
HOURS	57.40	27.81	29.59
% HOURS		48.45	51.55

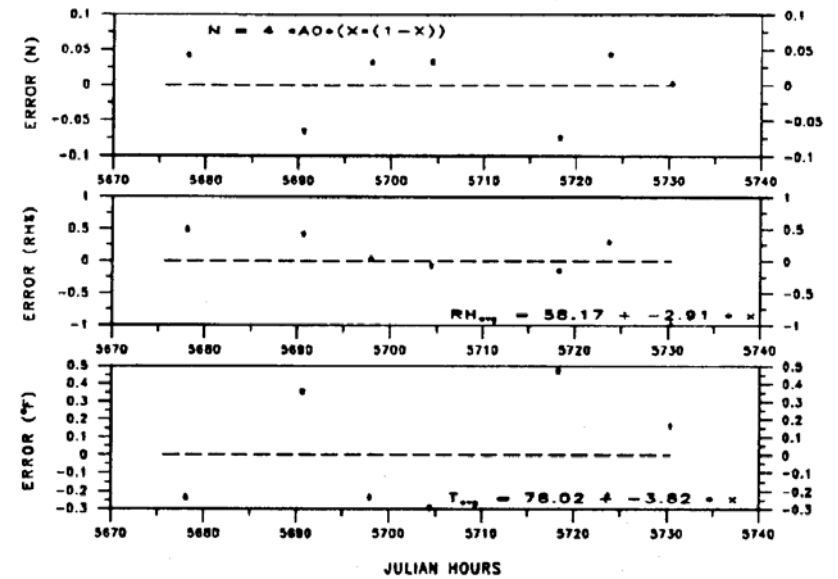
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: VIEIRA1

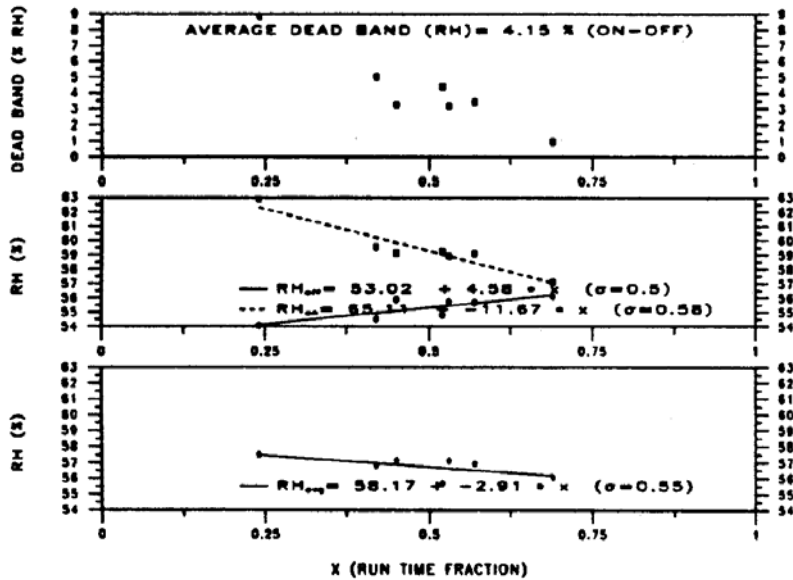
PLOT 4: RUN TIME PROFILES



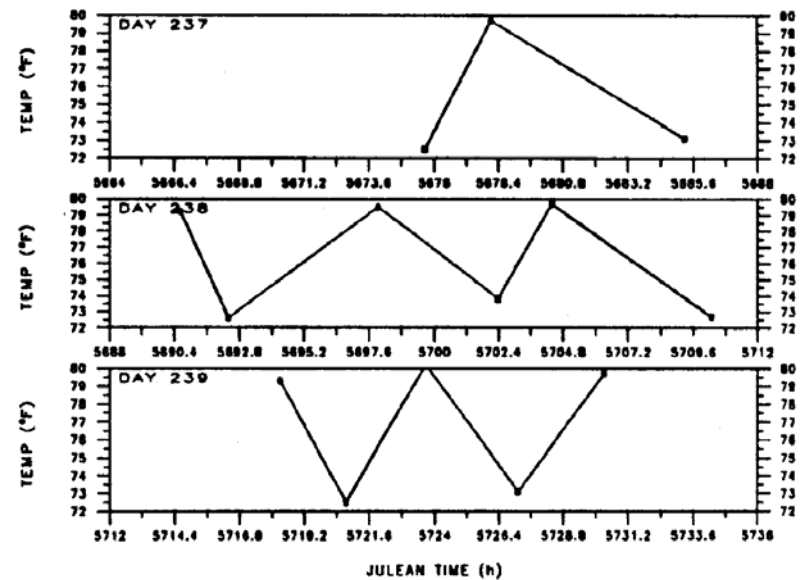
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

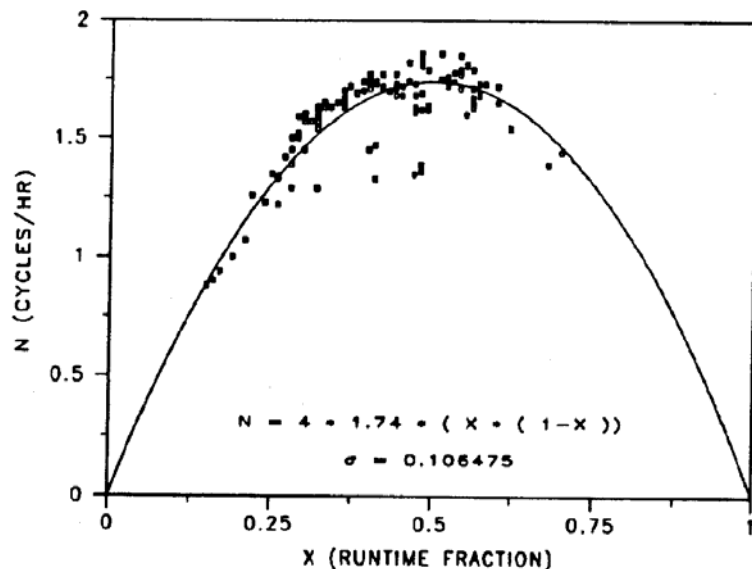
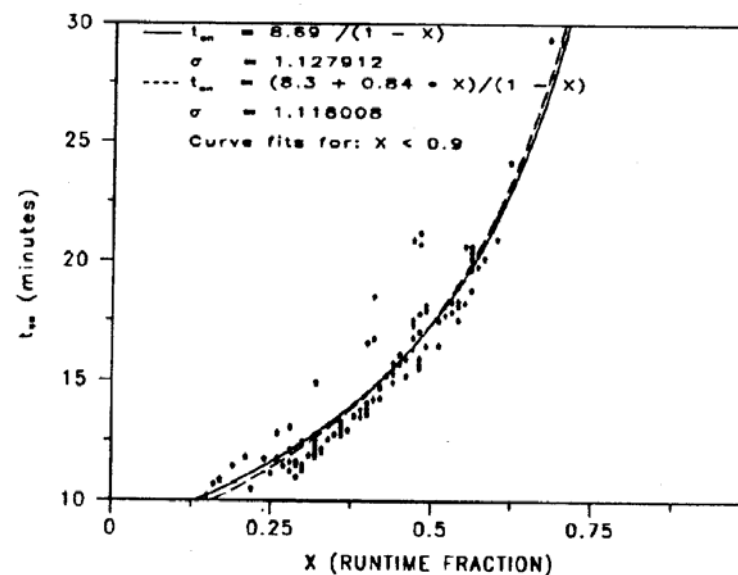


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

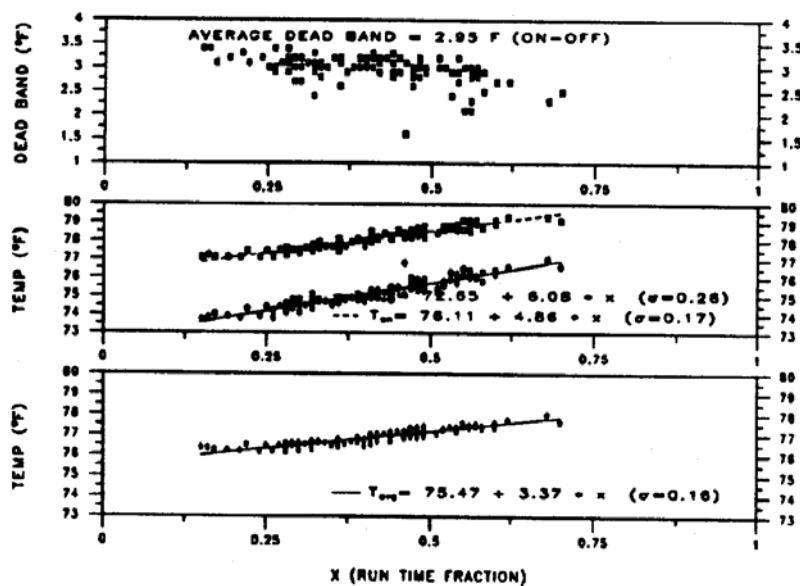


THERMOSTAT DATA: VIEIRA1

PLOT 1: CYCLING

PLOT 2: t_m 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: VIEIRA2

START DATE: 8/27 OR 239 TIME: 22:52:45 JULEAN HR: 5734.88

END DATE: 8/30 OR 242 TIME: 22:12:25 JULEAN HR: 5806.21

ELAPSED TIME: 71.33

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.82	76.28	77.18
AVERAGE RH (%)	55.43	55.03	55.69
HOURS	71.33	28.43	42.90
% HOURS		39.85	60.15

EOF

EOF

EOF

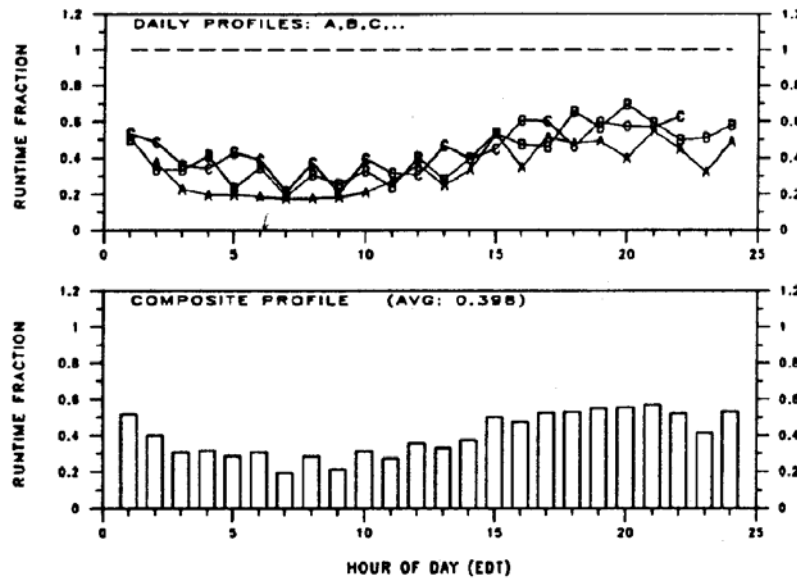
EOF

EOF

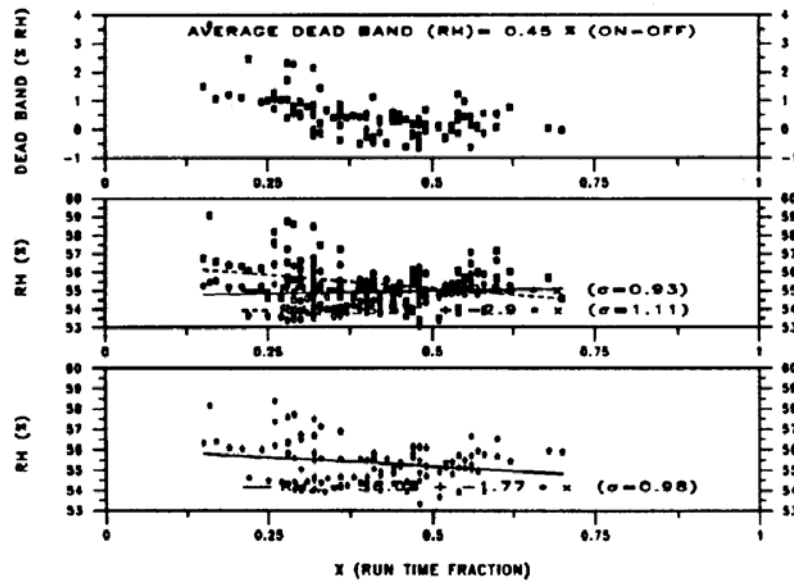
EOF

THERMOSTAT DATA: VIEIRA2

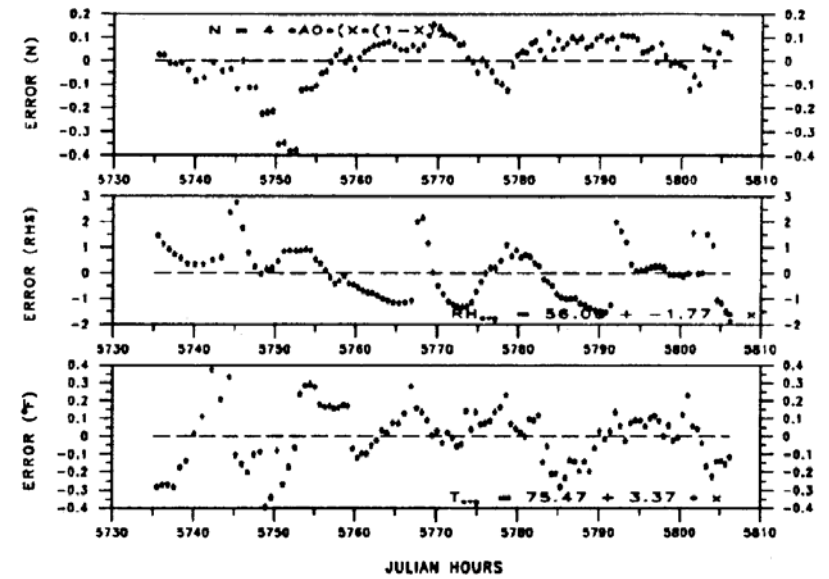
PLOT 4: RUN TIME PROFILES



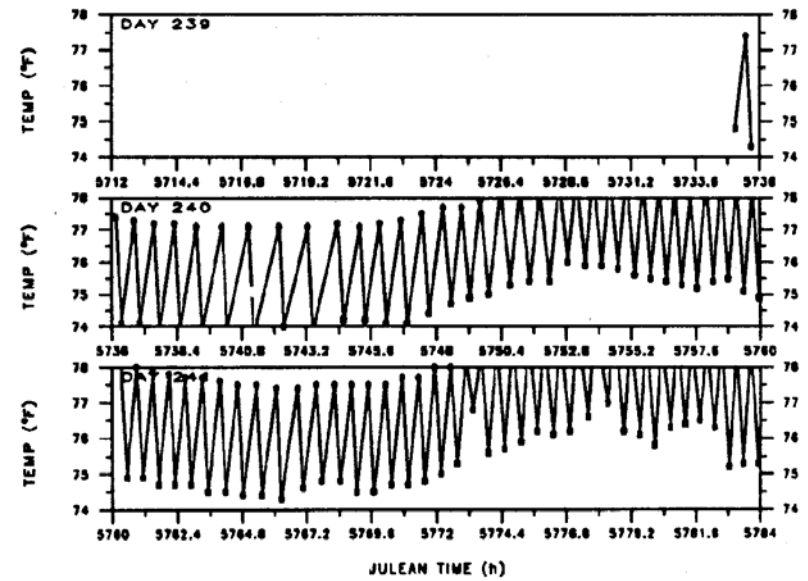
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

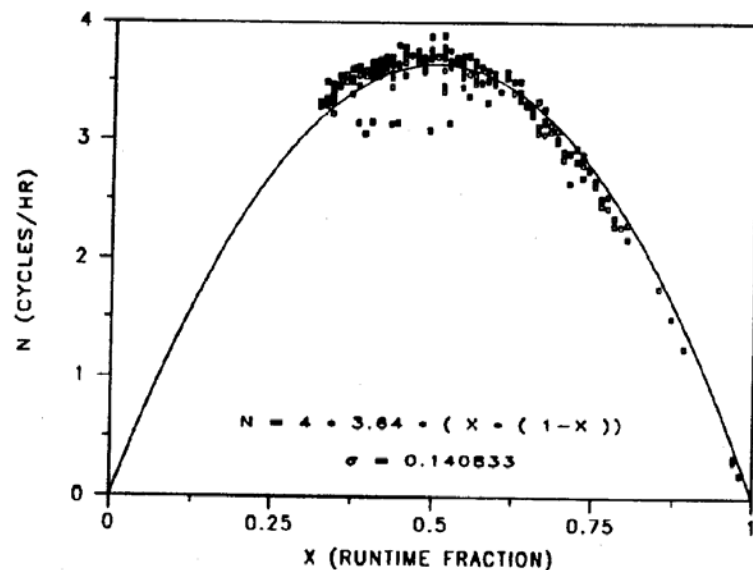
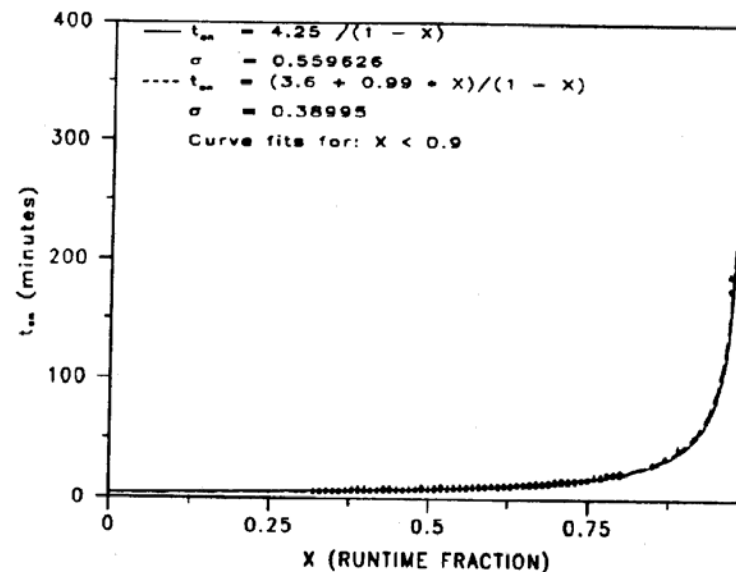


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

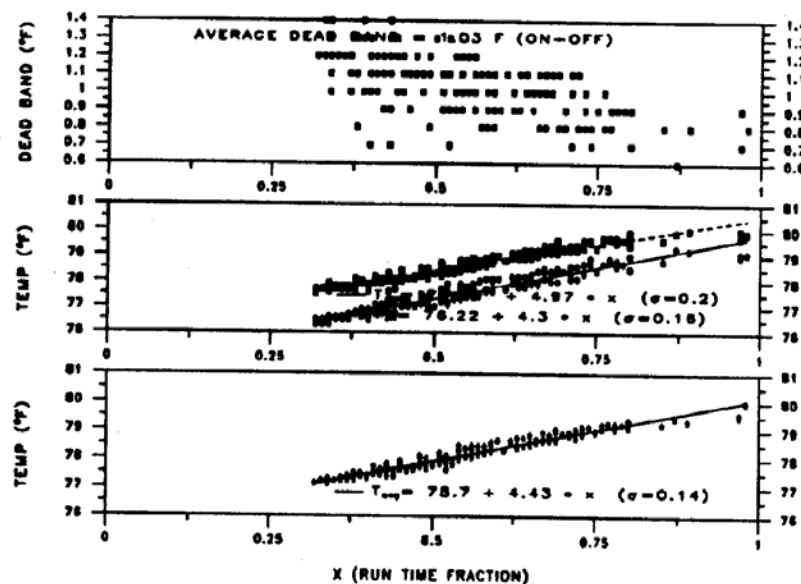


THERMOSTAT DATA: VIEIRA2

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: DUMMER

START DATE: 9/ 0 OR 243 TIME: 20:53:15 JULEAN HR: 5828.89

END DATE: 9/ 3 OR 246 TIME: 19:15:35 JULEAN HR: 5899.28

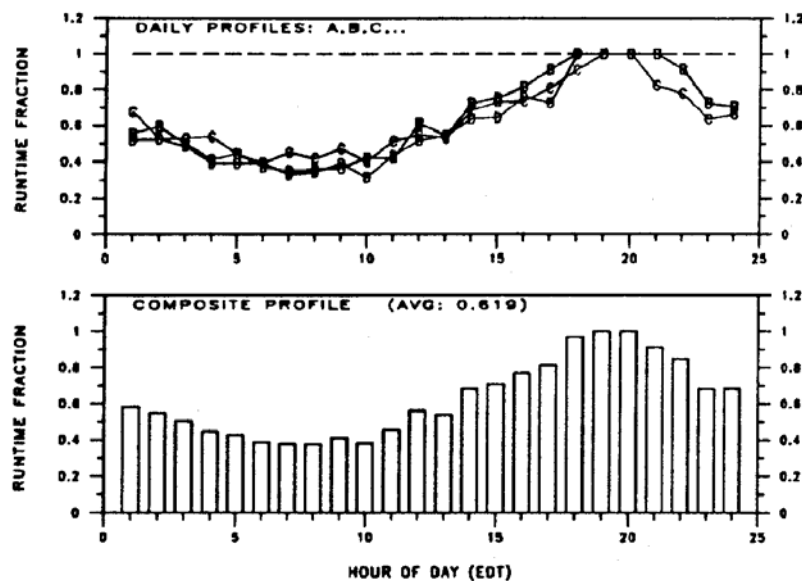
ELAPSED TIME: 70.37

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	78.41	78.64	78.02
AVERAGE RH (%)	41.36	41.34	41.38
HOURS	70.37	43.73	26.64
% HOURS		62.14	37.86

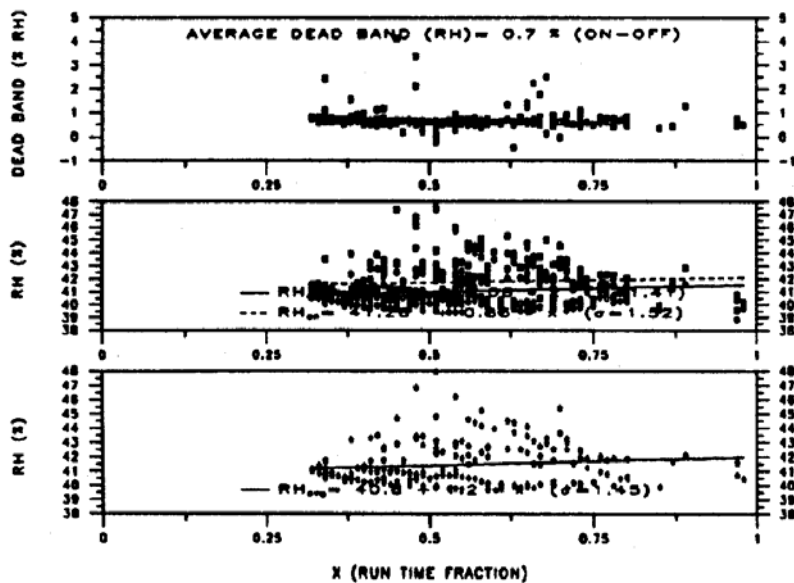
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: DUMMER

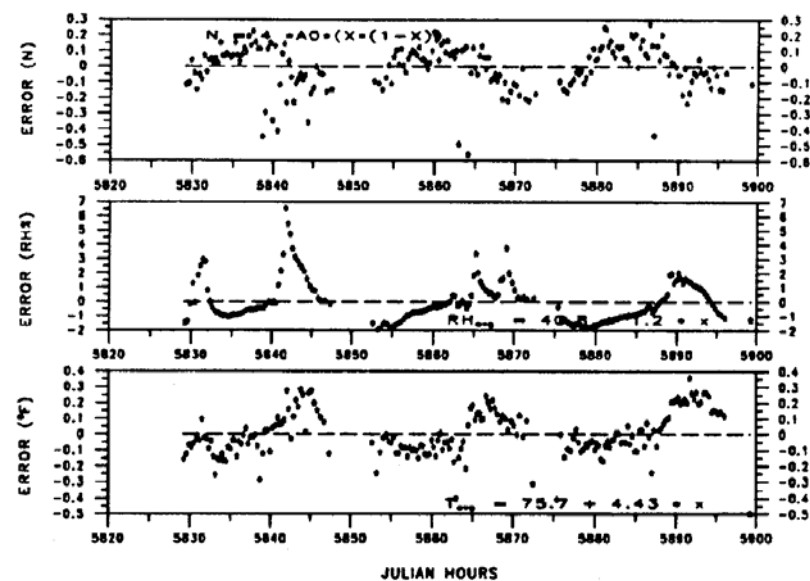
PLOT 4: RUN TIME PROFILES



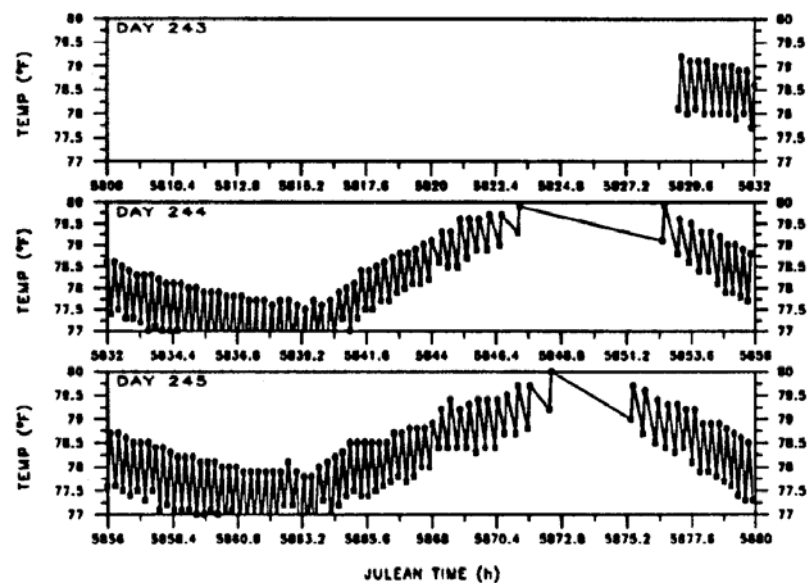
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

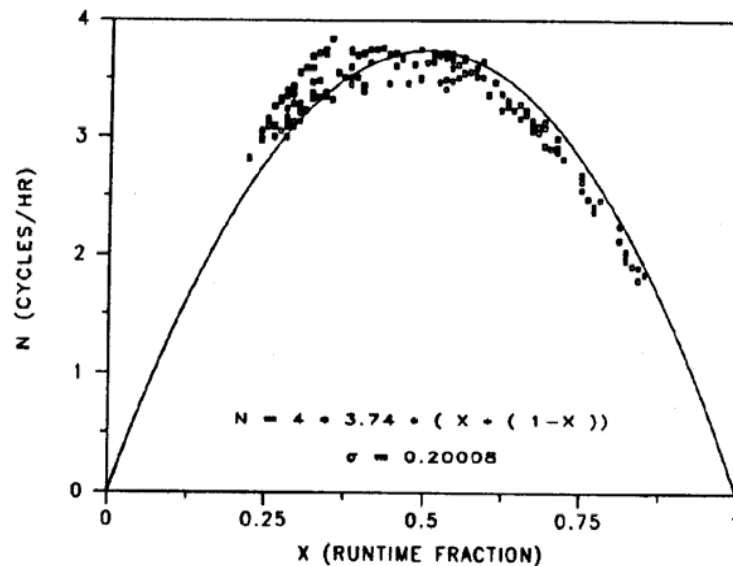
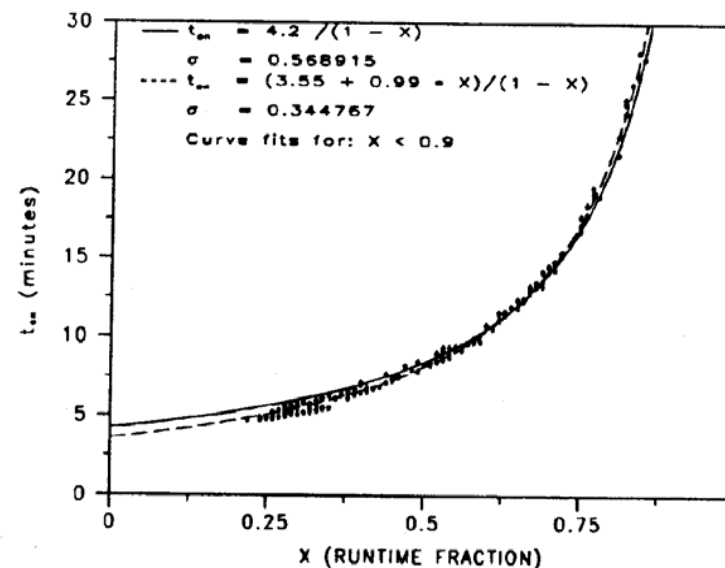


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

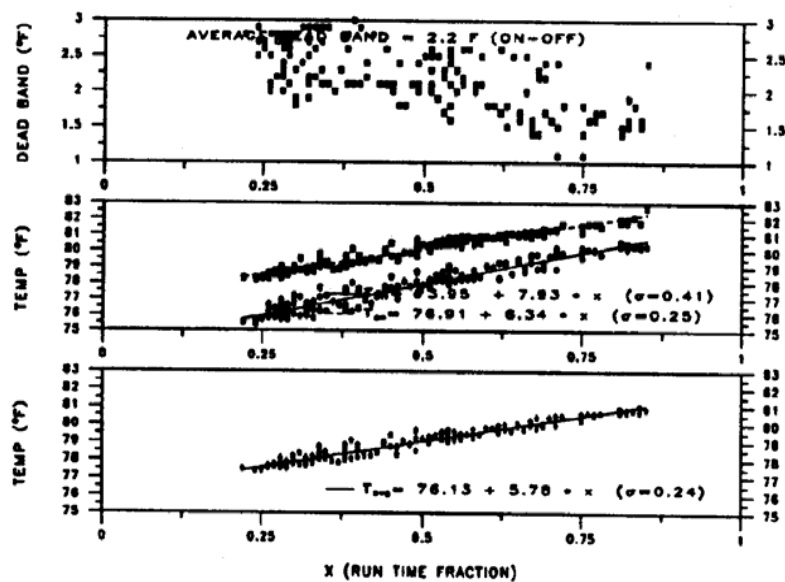


THERMOSTAT DATA: DUMMER

PLOT 1: CYCLING

PLOT 2: t_m 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

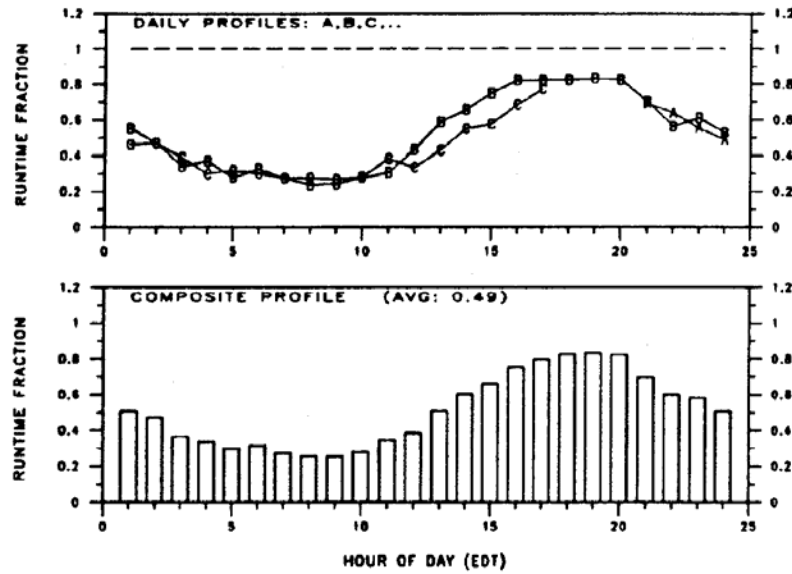
LOCATION: RAUSTAD2

START DATE: 9/ 5 OR 248 TIME: 17:50:25 JULEAN HR: 5945.84
 END DATE: 9/ 7 OR 250 TIME: 18:34:50 JULEAN HR: 5992.58
 ELAPSED TIME: 46.74

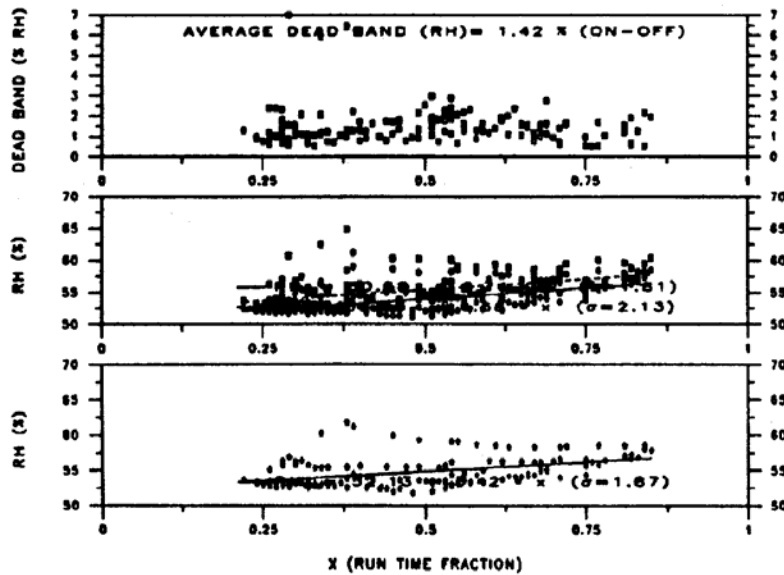
	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.01	79.22	78.80
AVERAGE RH (%)	54.90	55.18	54.63
HOURS	46.74	23.32	23.42
% HOURS		49.89	50.11
EOF			
EOF			
EOF			
EOF			
EOF			
EOF			

THERMOSTAT DATA: RAUSTAD2

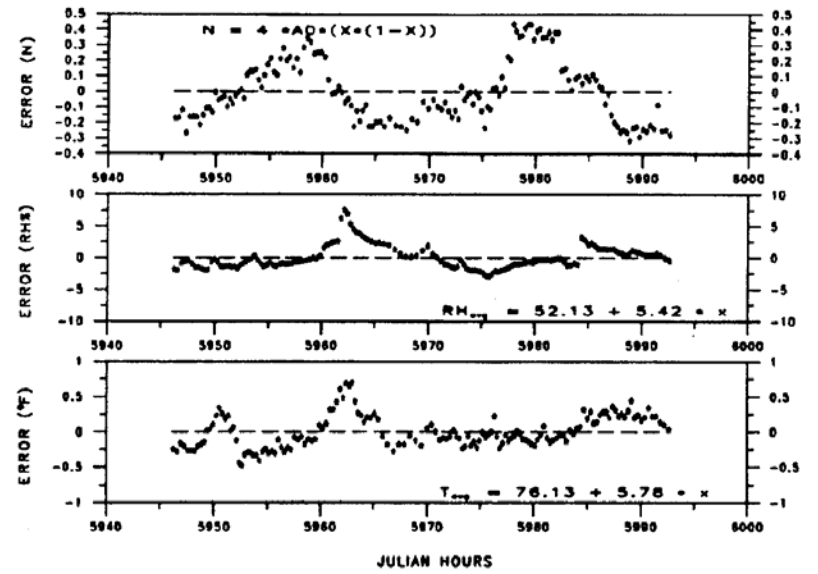
PLOT 4: RUN TIME PROFILES



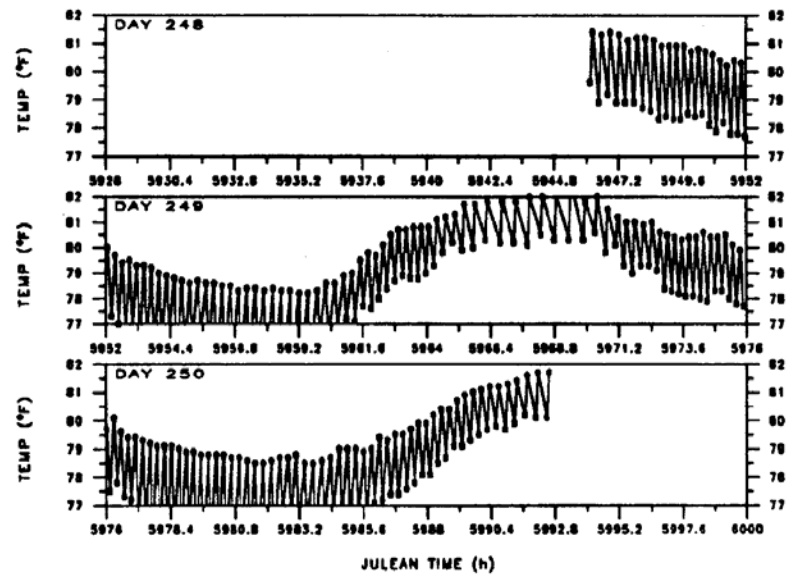
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

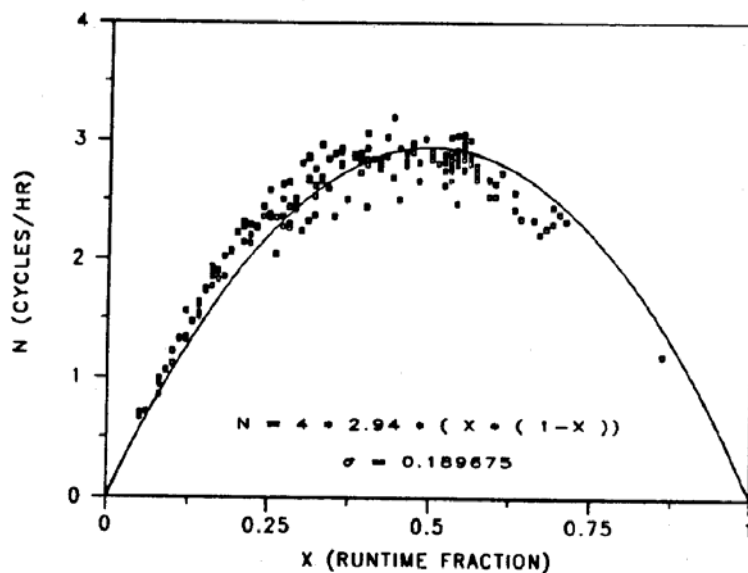
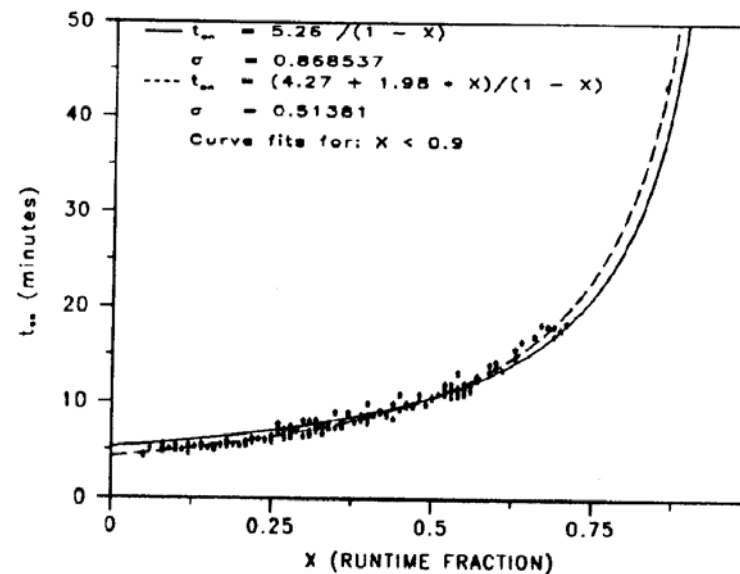


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

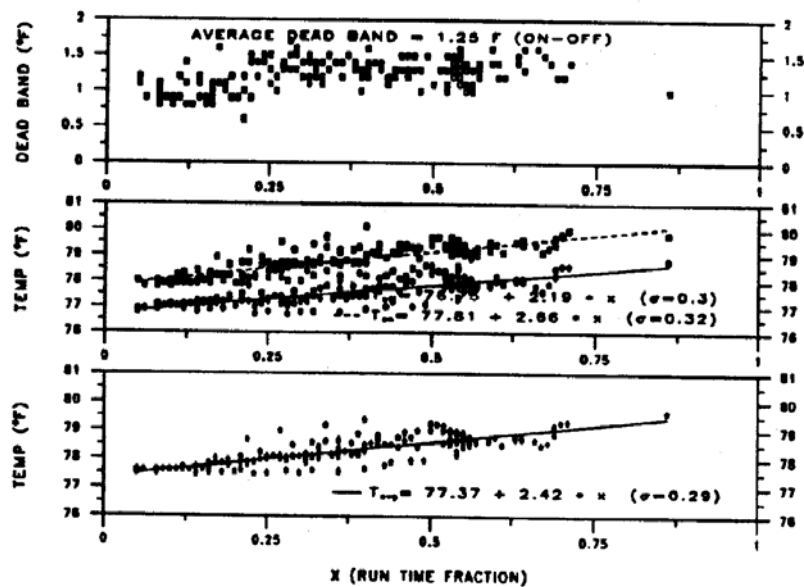


THERMOSTAT DATA: RAUSTAD2

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: GOULET

START DATE: 9/ 8 OR 251 TIME: 13: 55: 50 JULEAN HR: 6013. 93

END DATE: 9/11 OR 254 TIME: 20: 0: 25 JULEAN HR: 6092. 01

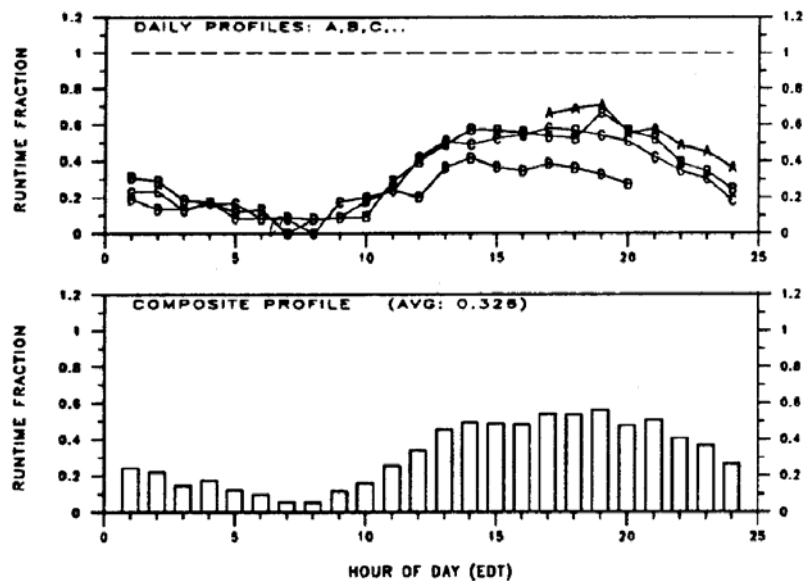
ELAPSED TIME: 78. 08

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	78. 17	78. 56	77. 98
AVERAGE RH (%)	55. 93	54. 96	56. 42
HOURS	78. 08	25. 97	52. 11
% HOURS		33. 26	66. 74

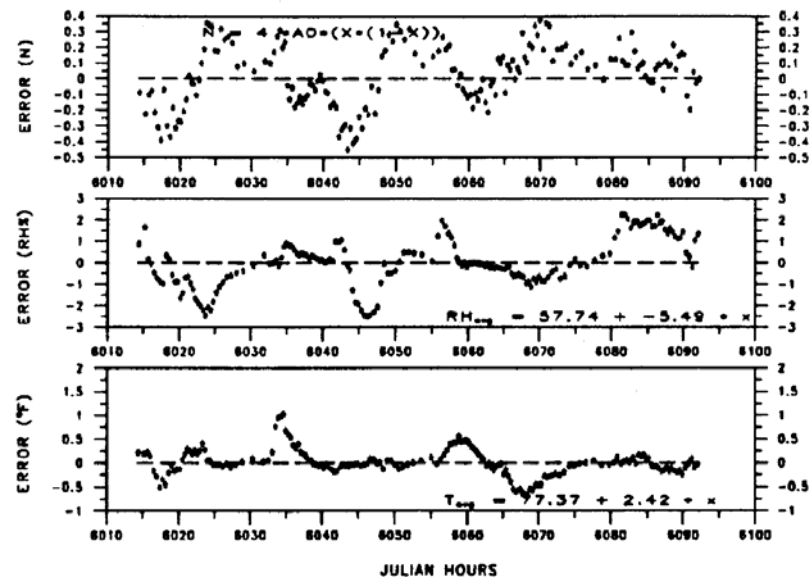
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: GOULET

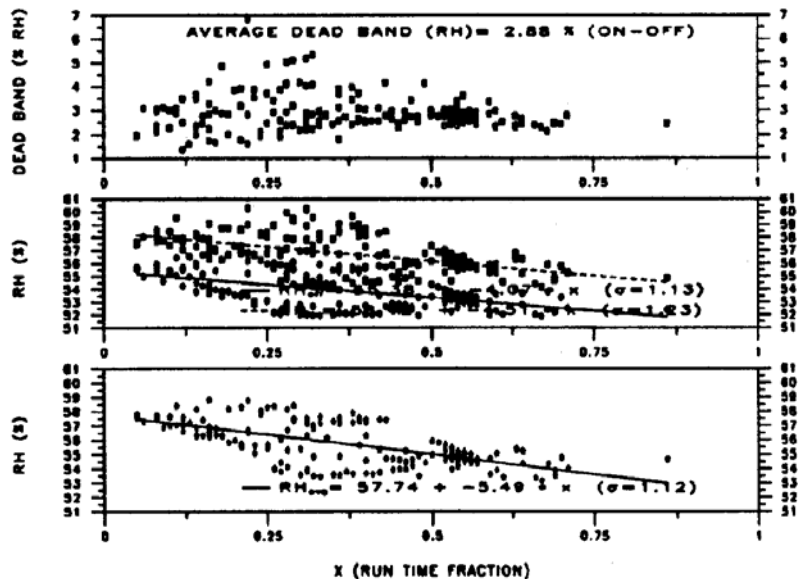
PLOT 4: RUN TIME PROFILES



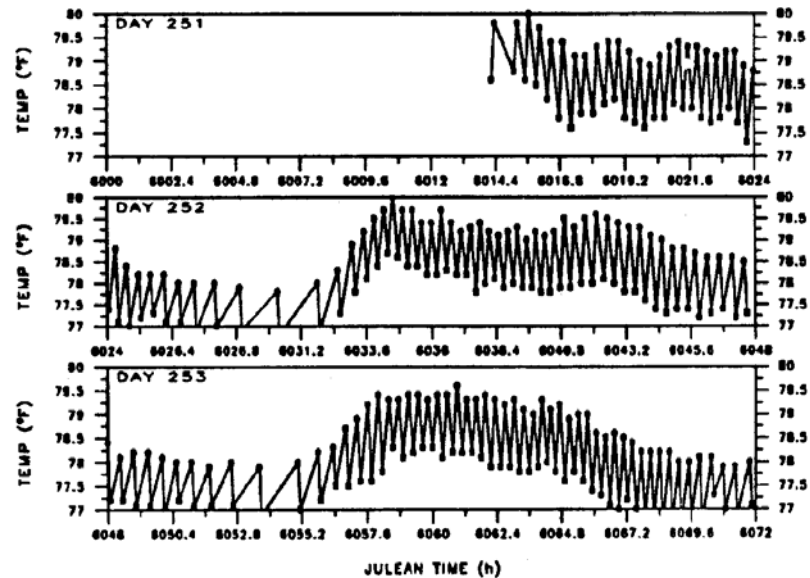
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

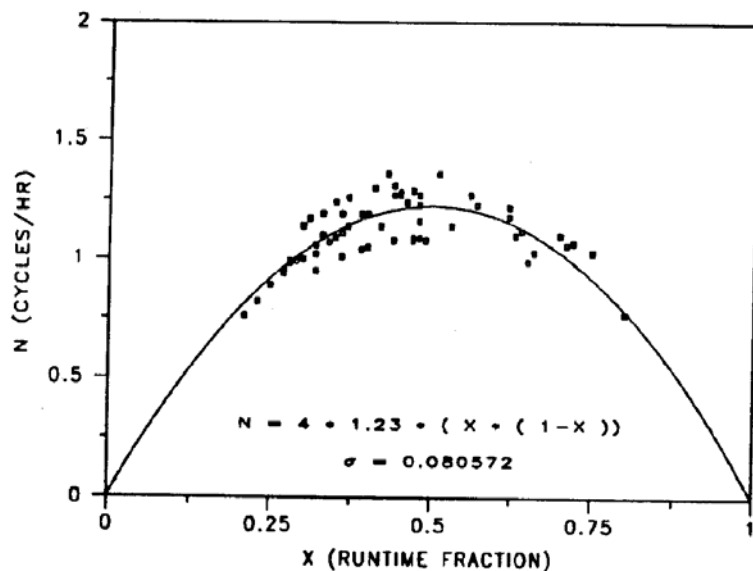
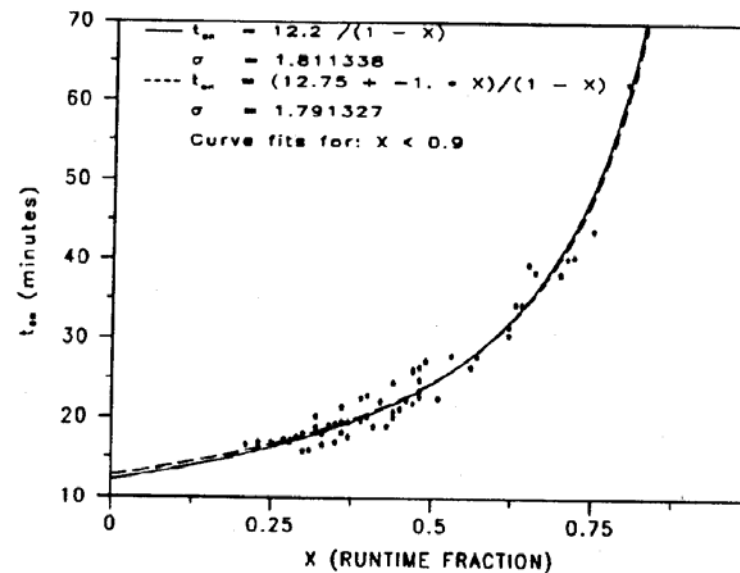


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

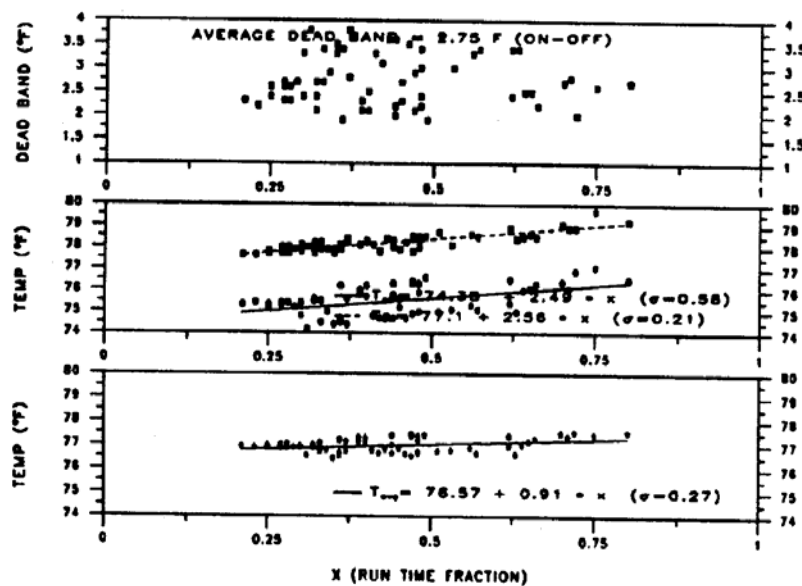


THERMOSTAT DATA: GOULET

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: CUMMINGS3

START DATE: 9/14 OR 257 TIME: 22: 9: 30 JULEAN HR: 6166.16

END DATE: 9/17 OR 260 TIME: 7: 6: 40 JULEAN HR: 6223.11

ELAPSED TIME: 56.95

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.98	76.48	77.36
AVERAGE RH (%)	50.13	49.50	50.62
HOURS	56.95	24.57	32.38
% HOURS		43.14	56.86

EOF

EOF

EOF

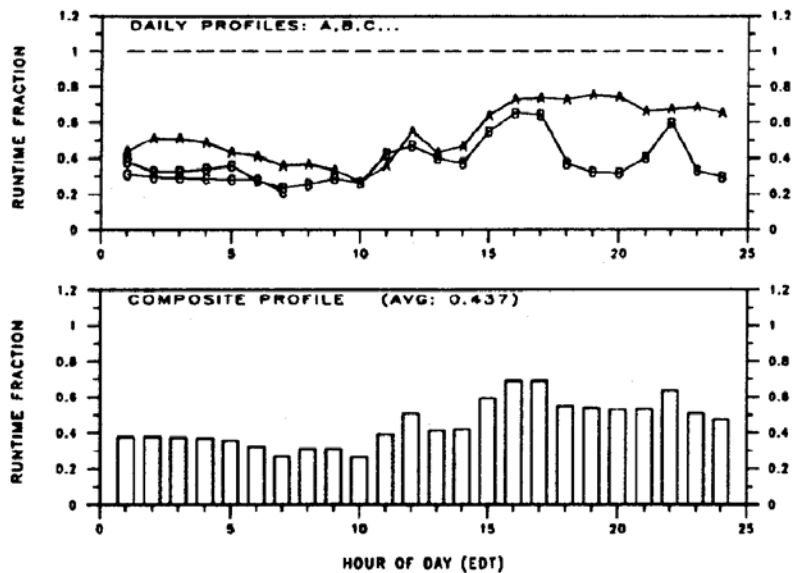
EOF

EOF

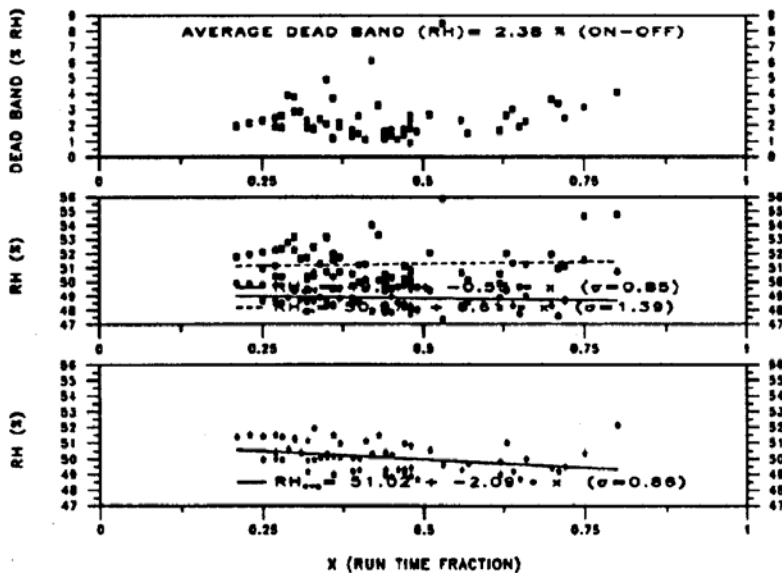
EOF

THERMOSTAT DATA: CUMMINGS3

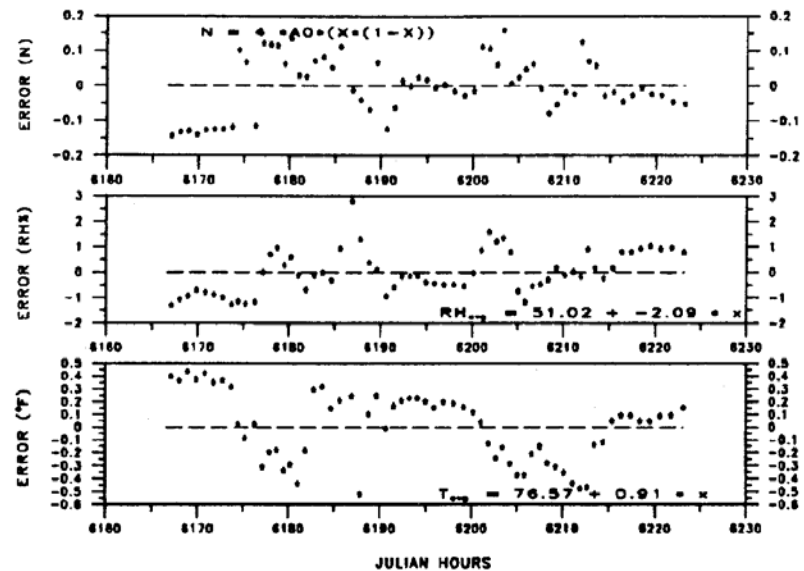
PLOT 4: RUN TIME PROFILES



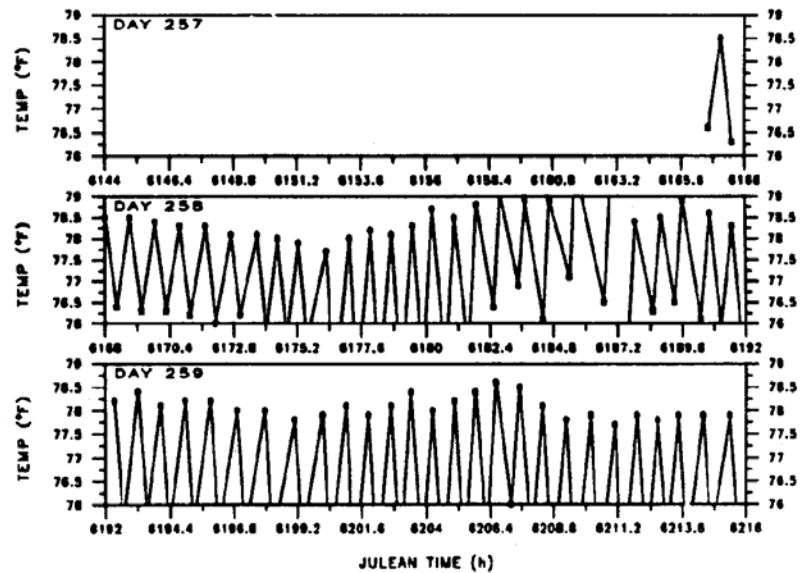
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

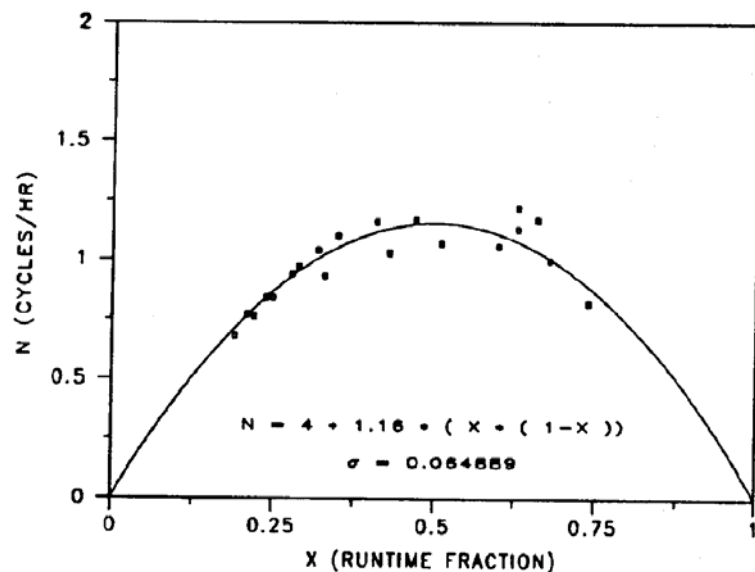
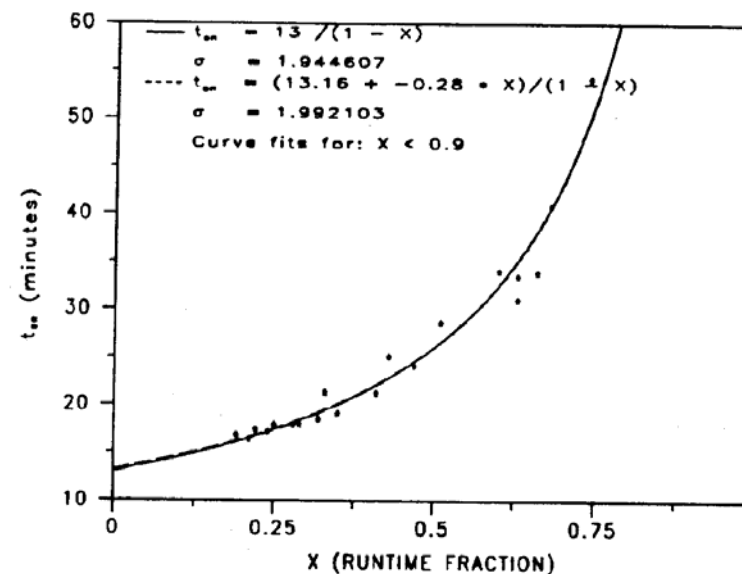


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

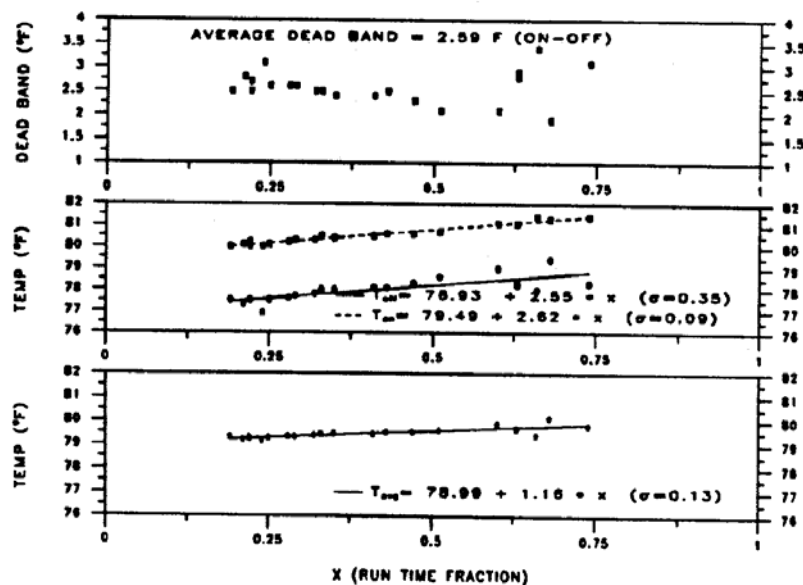


THERMOSTAT DATA: CUMMINGS3

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: CUMMINGS2

START DATE: 9/13 OR 256 TIME: 18:10:40 JULEAN HR: 6136.16

END DATE: 9/14 OR 257 TIME: 16:20:5 JULEAN HR: 6160.33

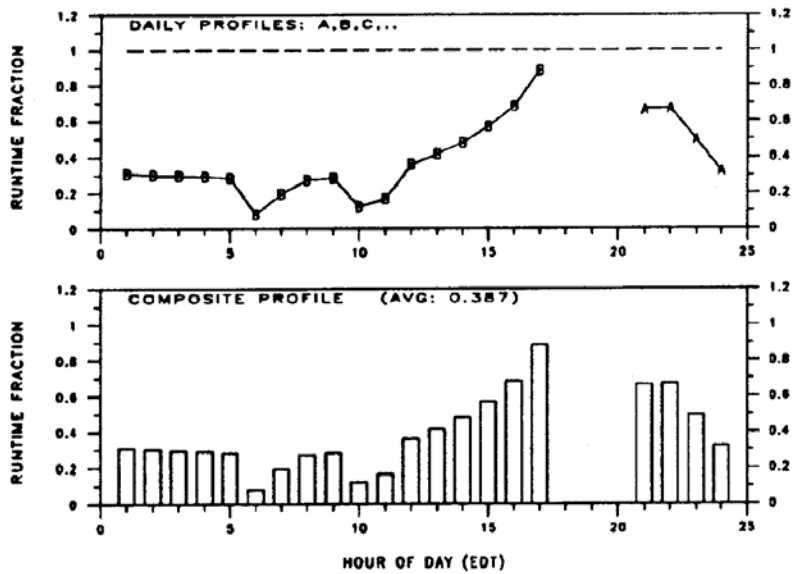
ELAPSED TIME: 22.16

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.45	79.01	79.73
AVERAGE RH (%)	49.58	48.70	50.14
HOURS	22.16	8.71	13.45
% HOURS		39.29	60.71

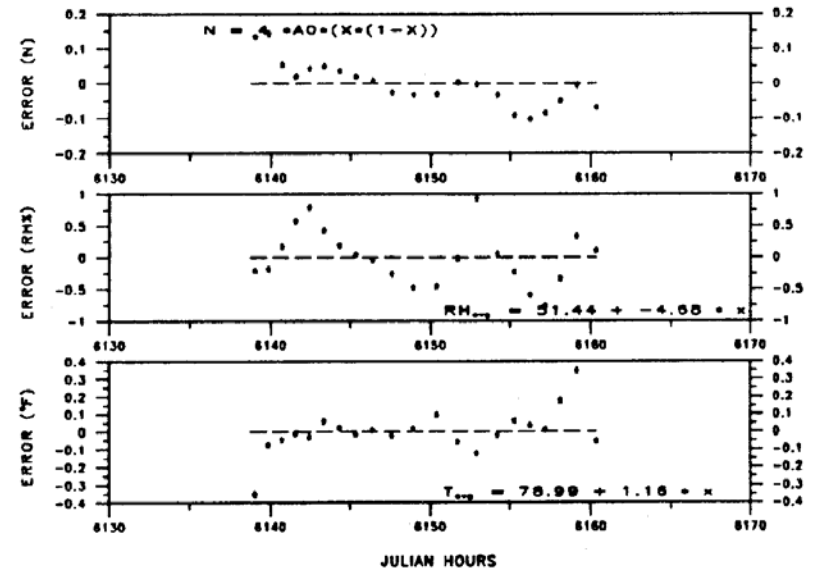
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: CUMMINGS2

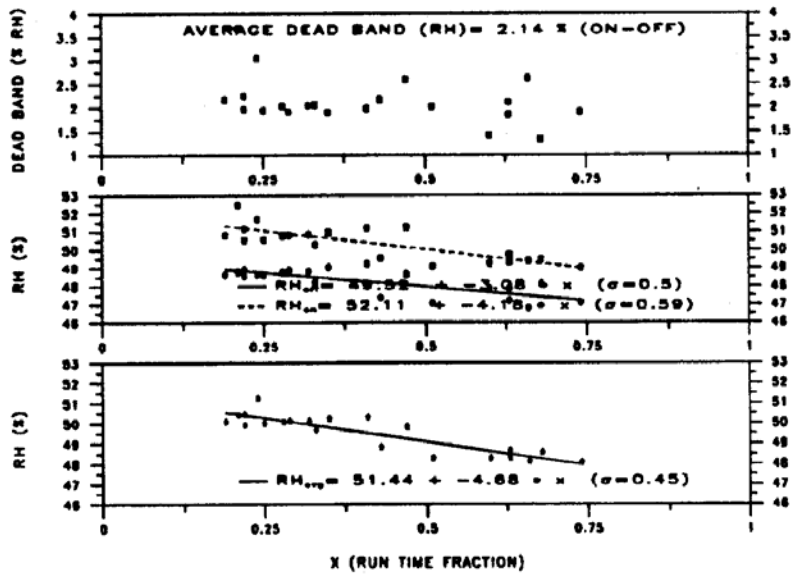
PLOT 4: RUN TIME PROFILES



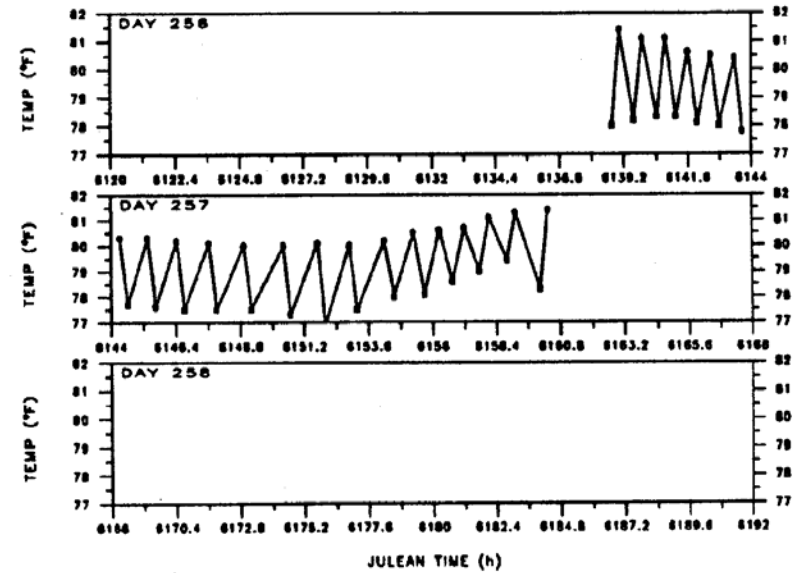
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

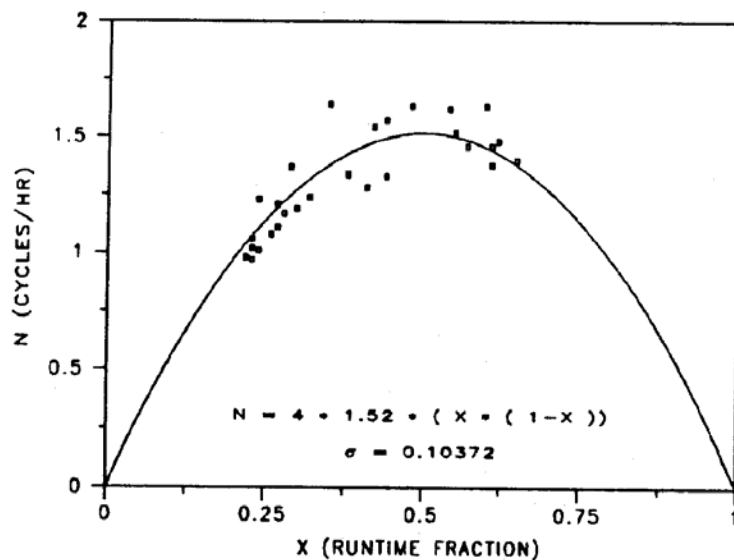
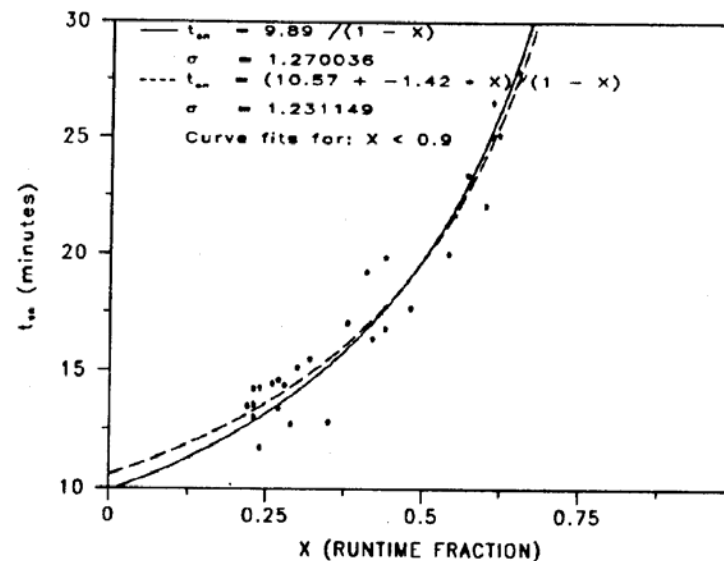


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

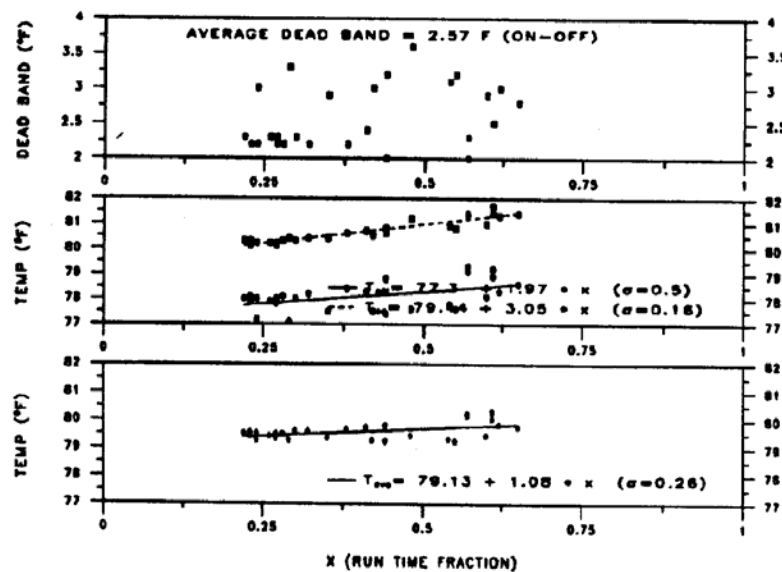


THERMOSTAT DATA: CUMMINGS2

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: CUMMINGS1

START DATE: 9/12 OR 255 TIME: 18:57:40 JULEAN HR: 6114.96

END DATE: 9/13 OR 256 TIME: 17:28:40 JULEAN HR: 6137.48

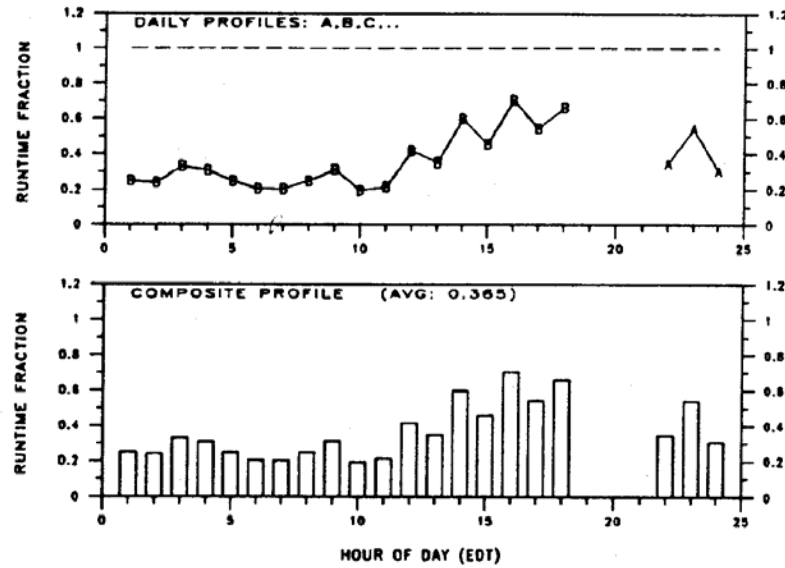
ELAPSED TIME: 22.52

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.56	79.09	79.85
AVERAGE RH (%)	50.30	49.49	50.79
HOURS	22.52	8.59	13.93
% HOURS		38.14	61.86

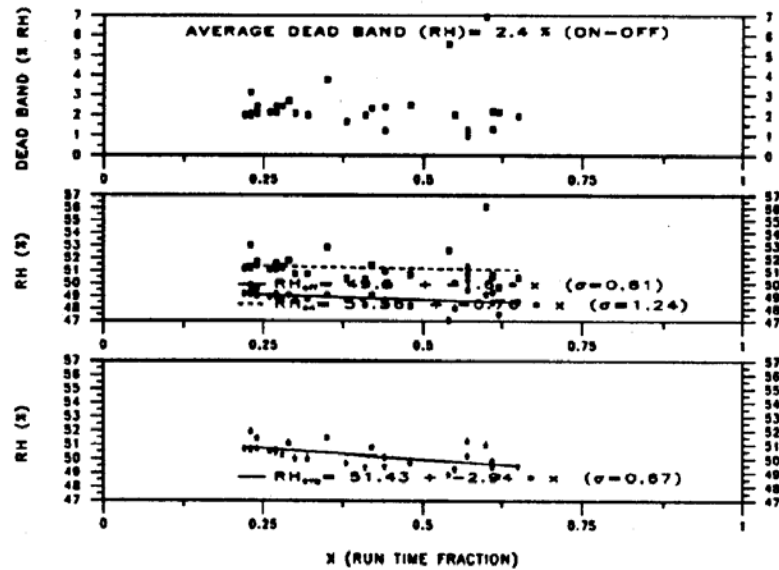
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: CUMMINGS1

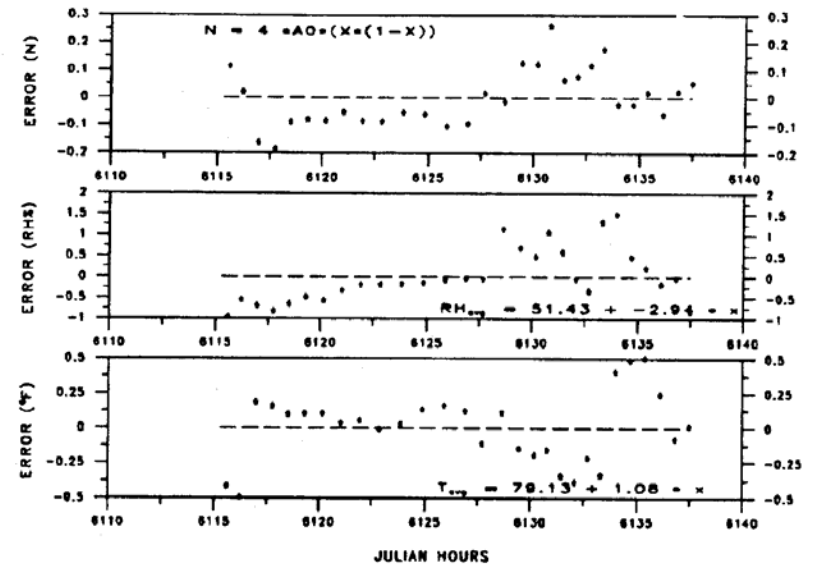
PLOT 4: RUN TIME PROFILES



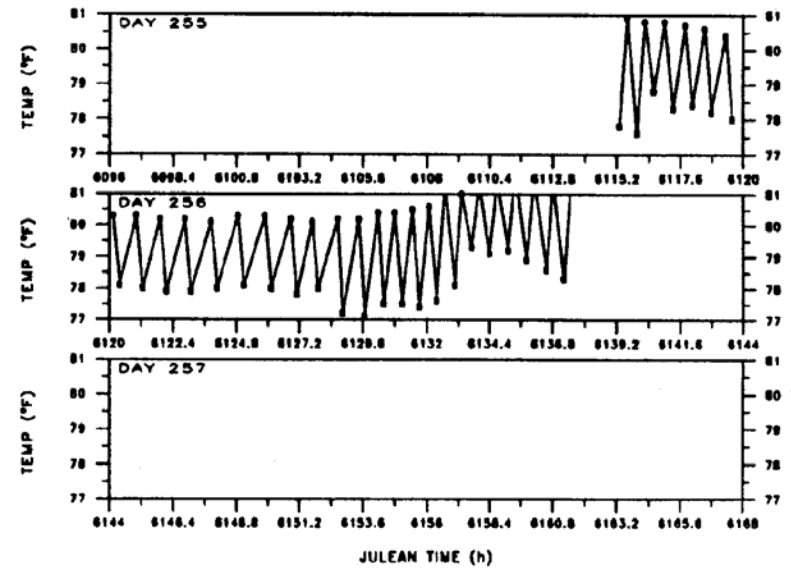
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

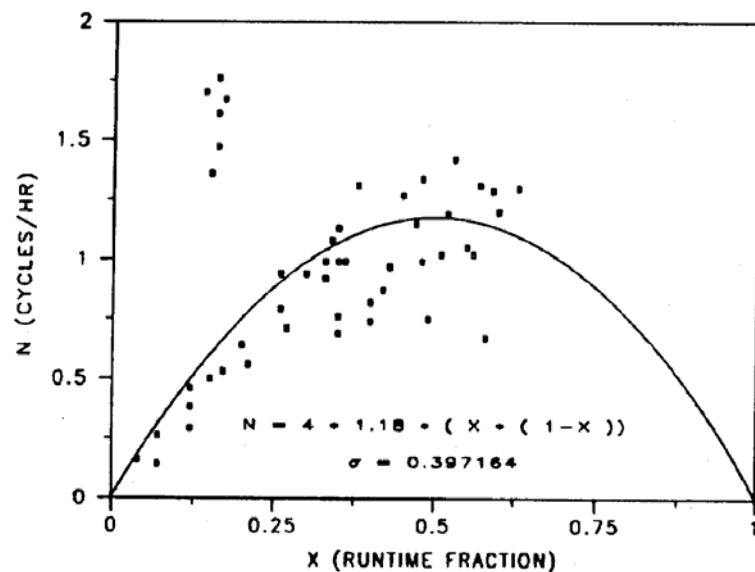
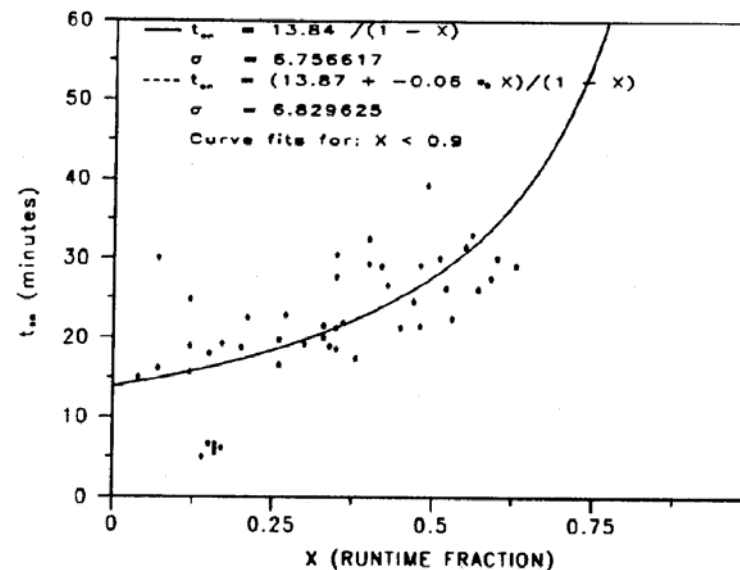


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

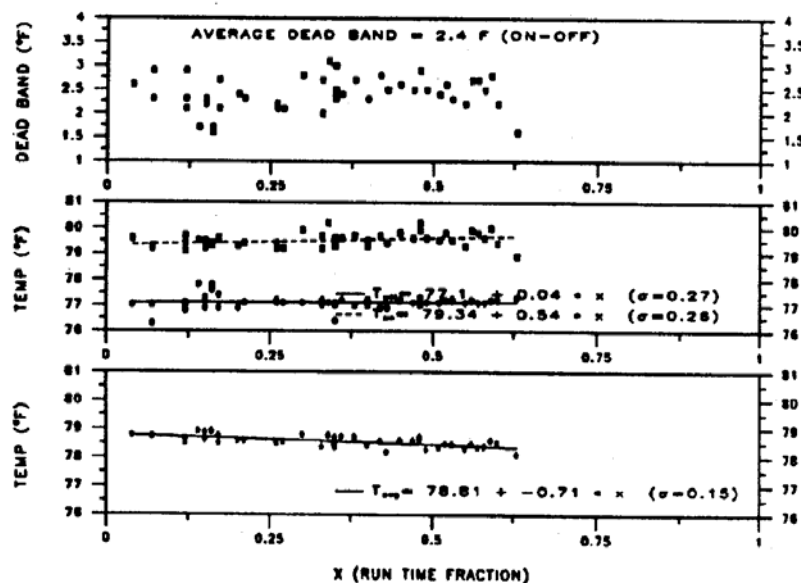


THERMOSTAT DATA: CUMMINGS1

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: MELLOR

START DATE: 9/17 OR 260 TIME: 22: 2: 0 JULEAN HR: 6238.03

END DATE: 9/20 OR 263 TIME: 19: 36: 40 JULEAN HR: 6307.61

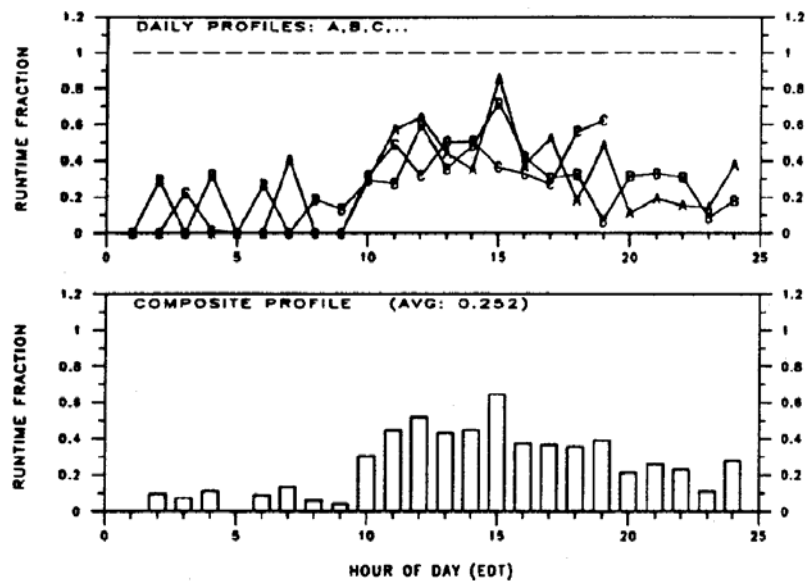
ELAPSED TIME: 69.58

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	78.59	78.13	78.75
AVERAGE RH (%)	60.73	60.05	60.96
HOURS	69.58	17.86	51.71
% HOURS		25.67	74.33

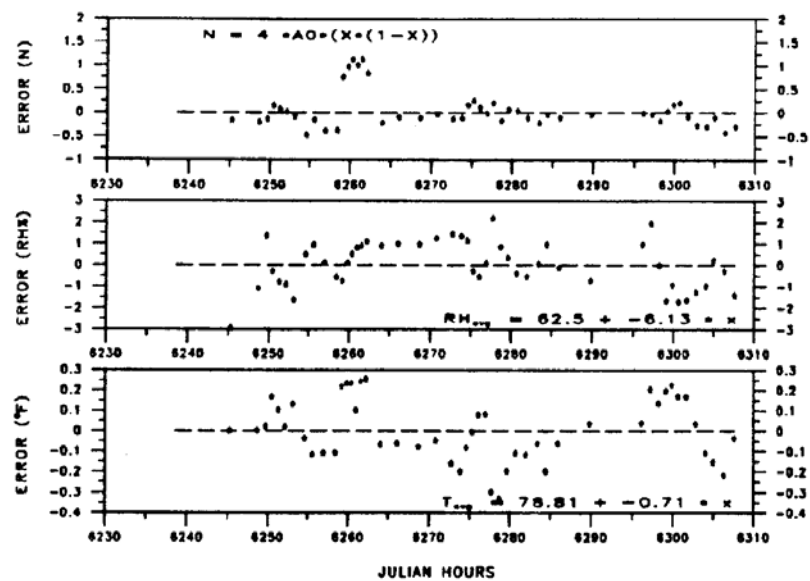
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: MELLOR

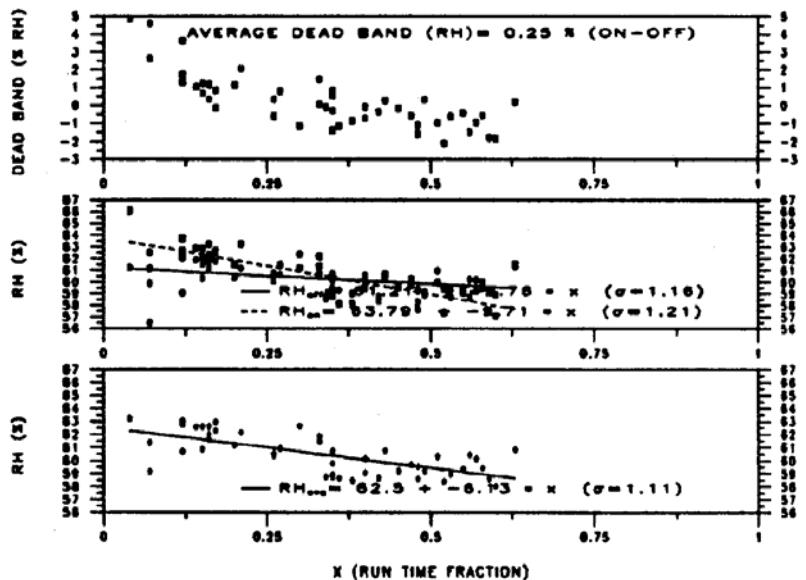
PLOT 4: RUN TIME PROFILES



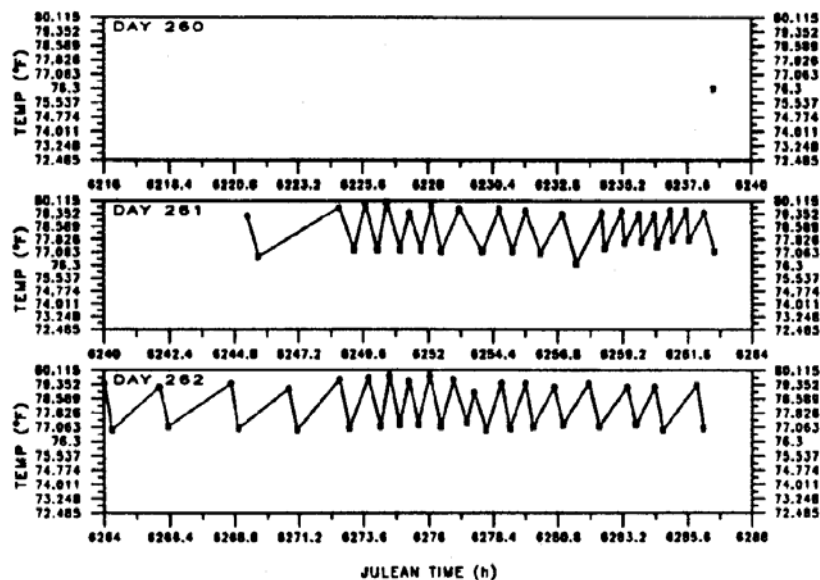
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

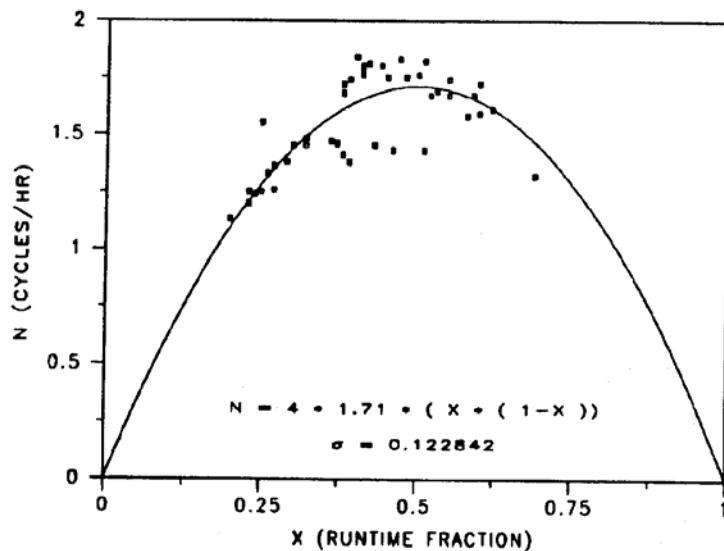
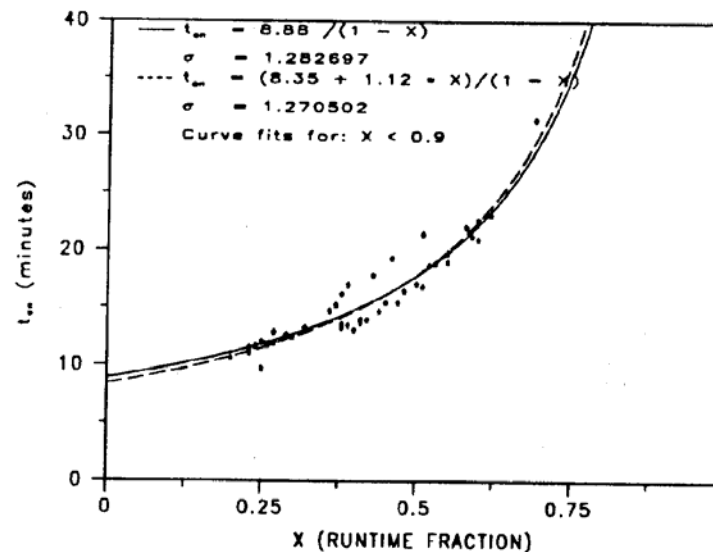


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

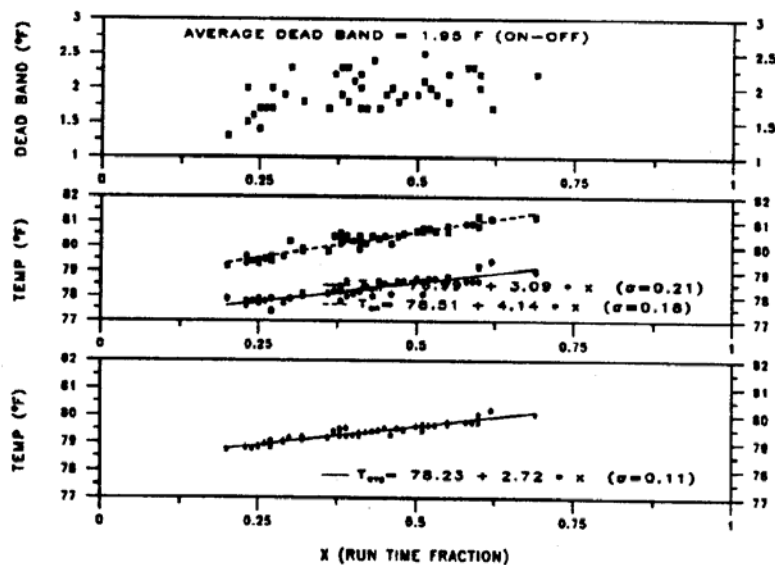


THERMOSTAT DATA: MELLOR

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: WALKER

START DATE: 9/21 OR 264 TIME: 19:16:40 JULEAN HR: 6331.28

END DATE: 9/23 OR 265 TIME: 0:4:5 JULEAN HR: 6360.07

ELAPSED TIME: 28.79

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	79.33	79.09	79.48
AVERAGE RH (%)	47.89	47.69	48.03
HOURS	28.79	11.60	17.19
% HOURS		40.31	59.69

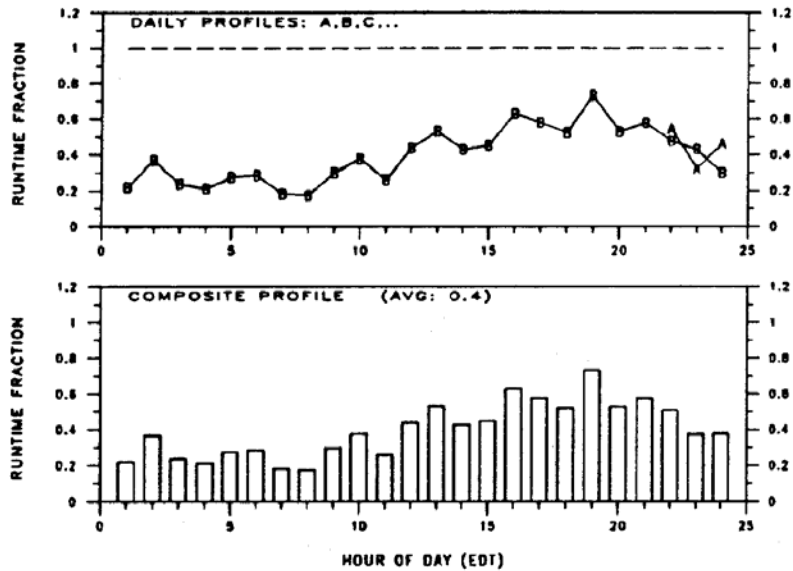
SELECTED DATA RANGE:

STARTING 264. , 19. (6331.000)

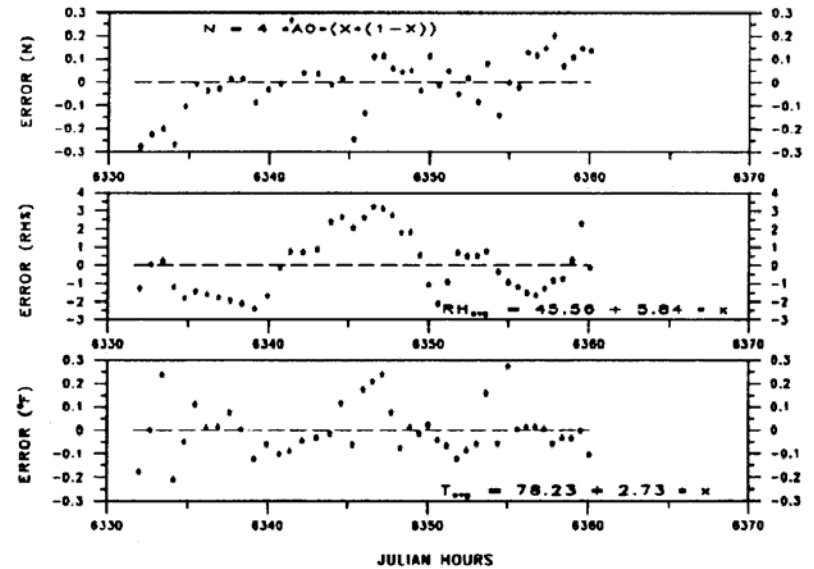
ENDING 265. , 0. (6360.000)

THERMOSTAT DATA: WALKER

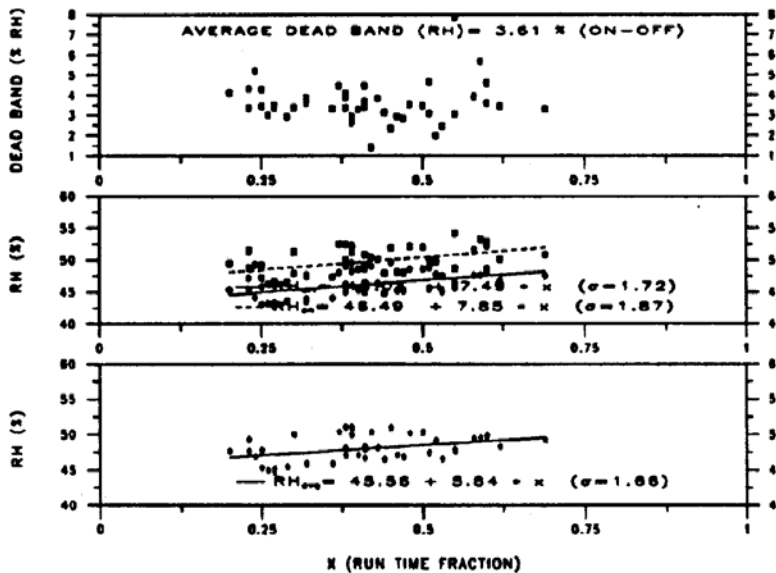
PLOT 4: RUN TIME PROFILES



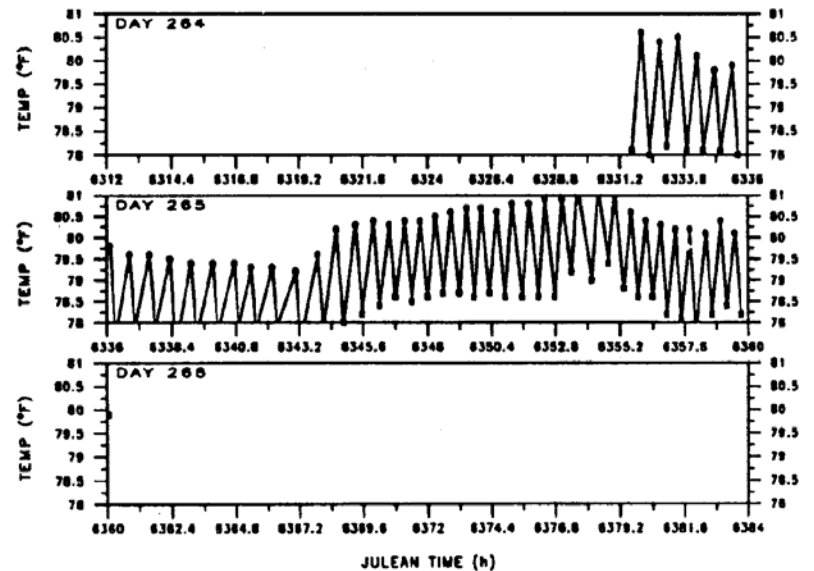
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

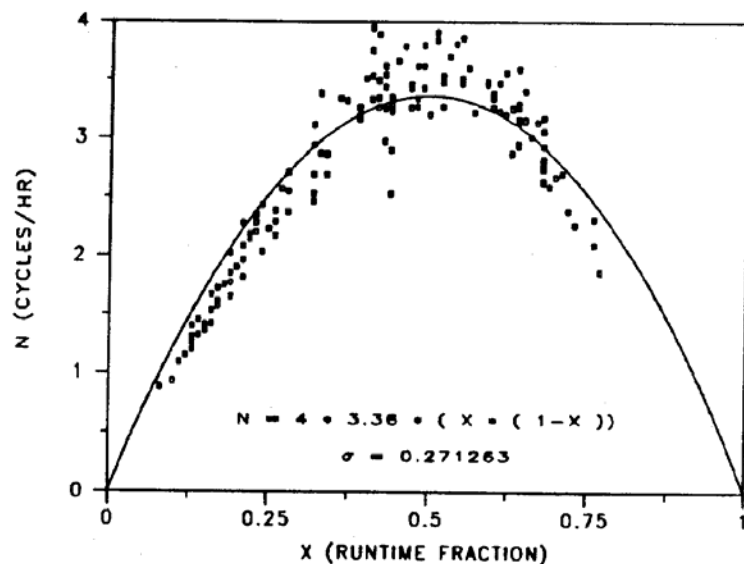
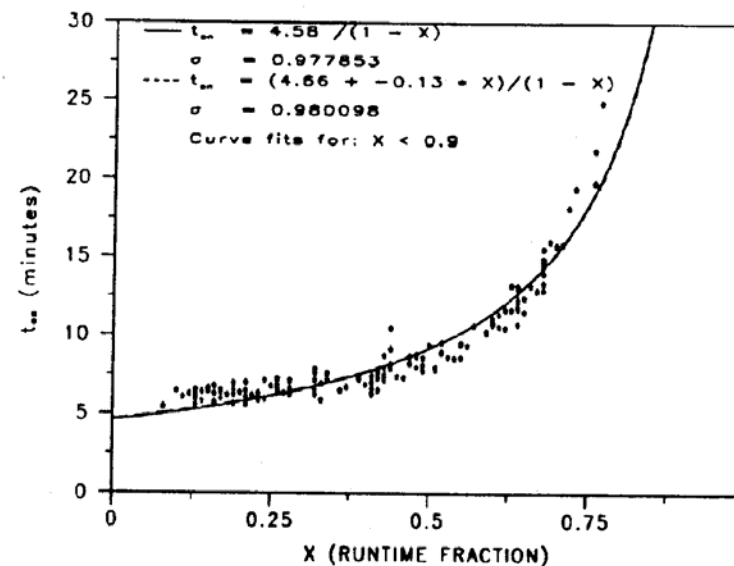


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

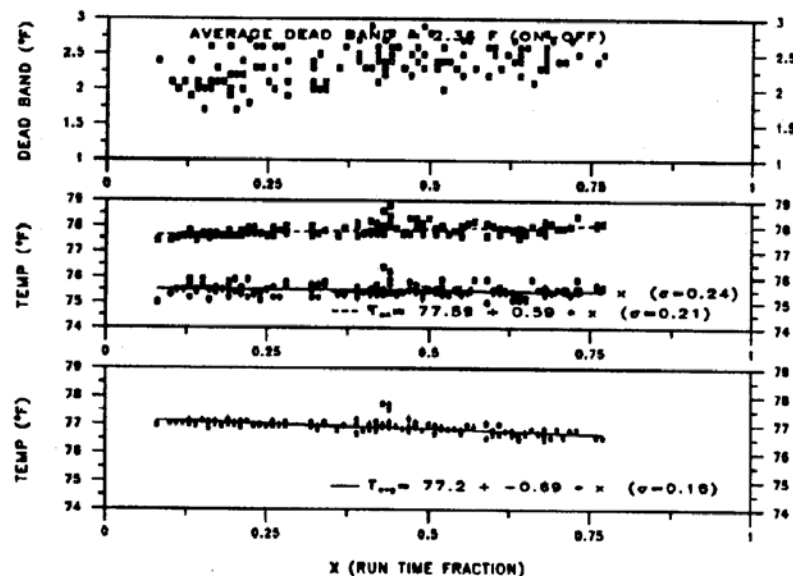


THERMOSTAT DATA: WALKER

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: KALAGHCHY

START DATE: 10/ 1 OR 274 TIME: 20: 42: 10 JULEAN HR: 6572. 70

END DATE: 10/ 4 OR 277 TIME: 6: 45: 15 JULEAN HR: 6630. 75

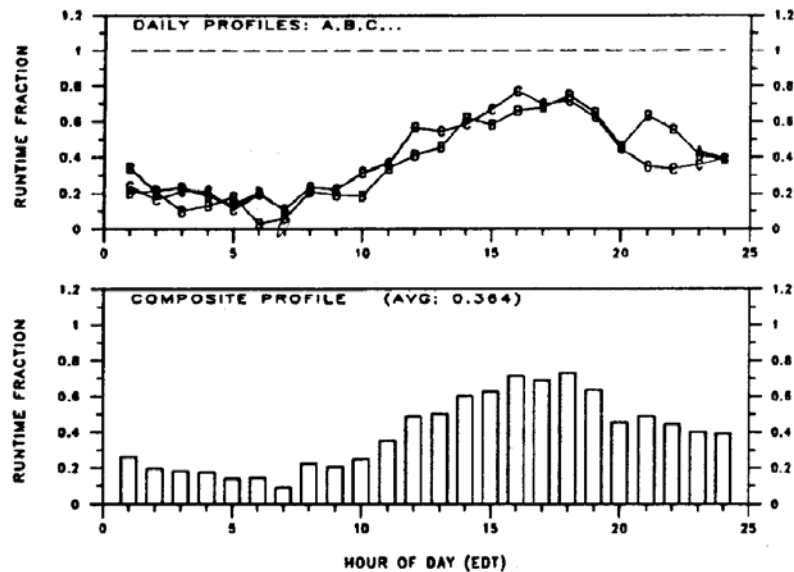
ELAPSED TIME: 58. 05

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	78. 94	78. 63	77. 11
AVERAGE RH (%)	50. 78	50. 36	51. 02
HOURS	58. 05	21. 04	37. 01
% HOURS		36. 25	63. 75

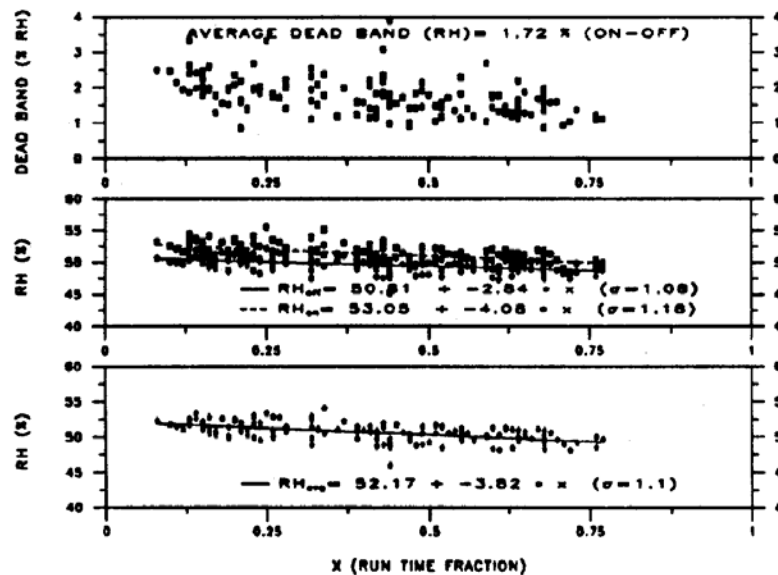
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: KALAGHCHY

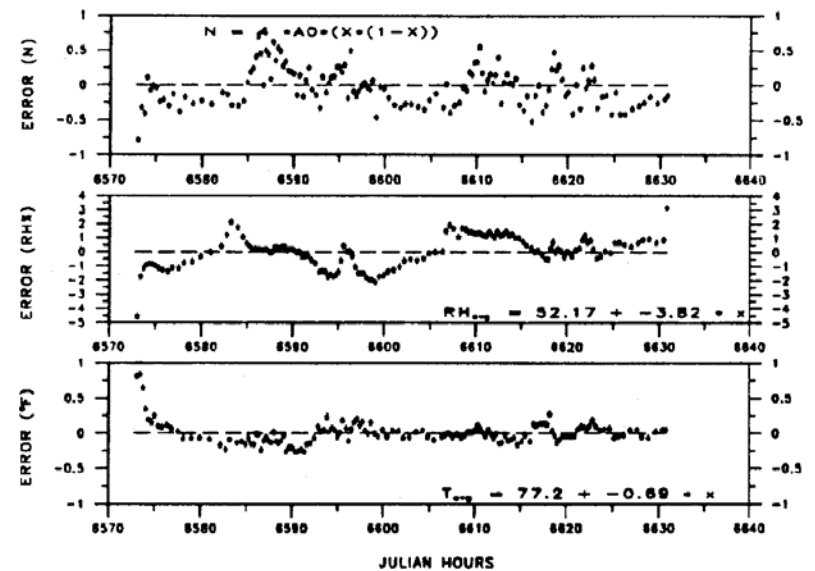
PLOT 4: RUN TIME PROFILES



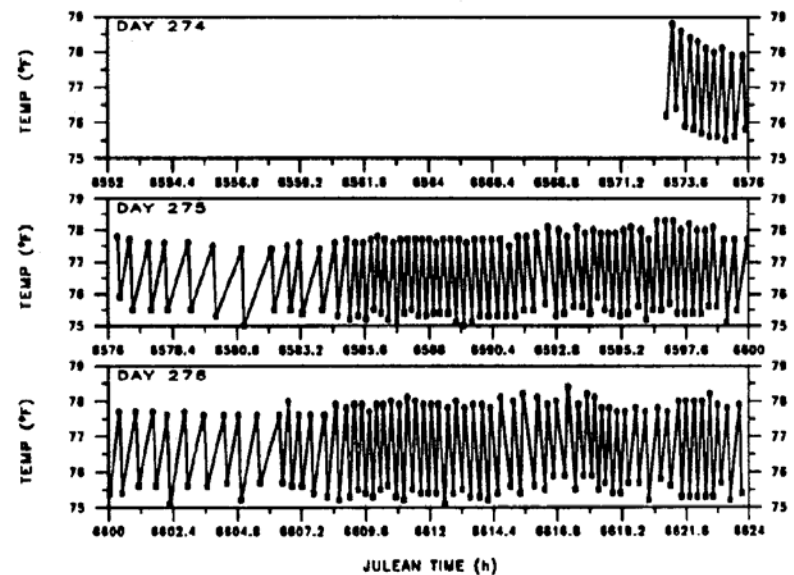
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS

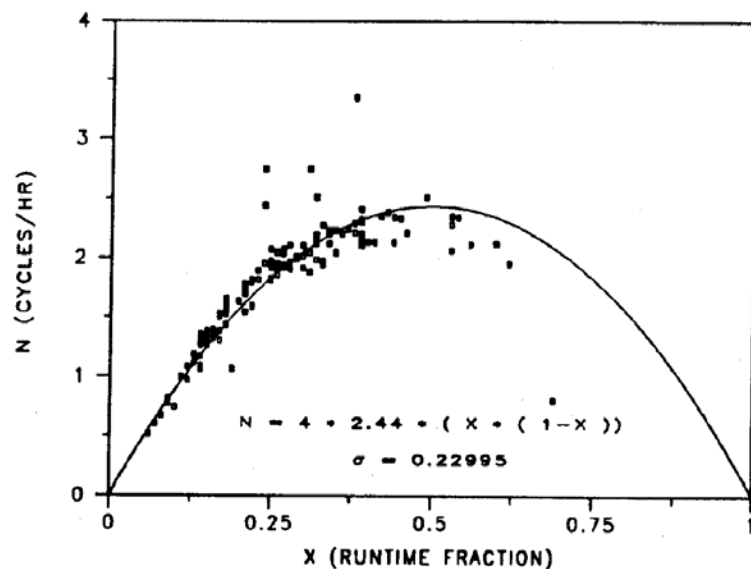
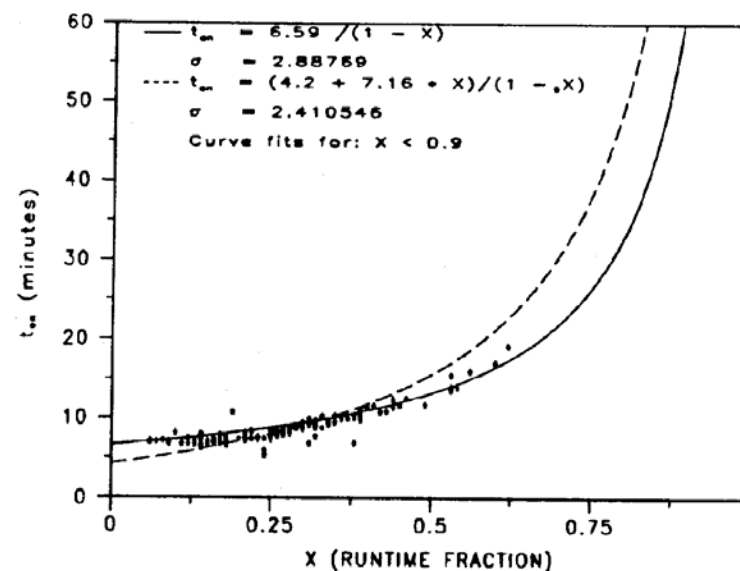


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

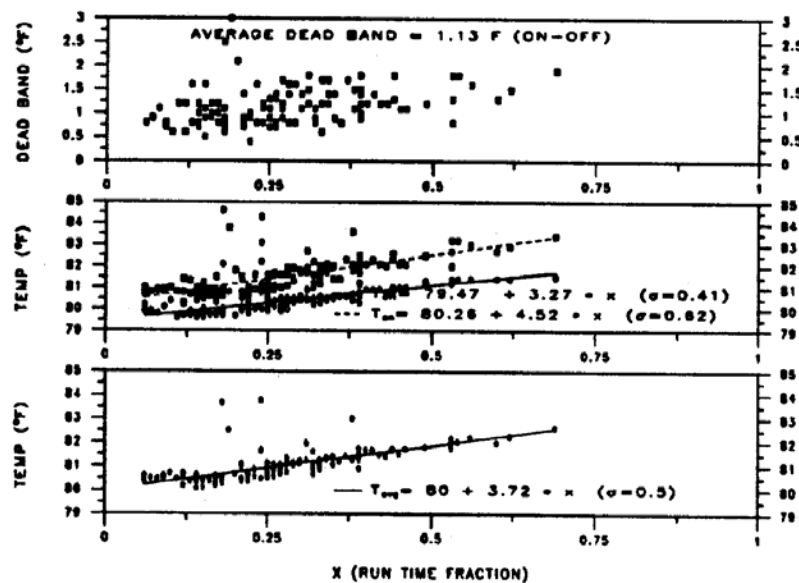


THERMOSTAT DATA: KALAGHCHY

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: SHIREY2

START DATE: 10/ 4 OR 277 TIME: 21:44:45 JULEAN HR: 6645.75

END DATE: 10/ 8 OR 281 TIME: 6:43:40 JULEAN HR: 6726.73

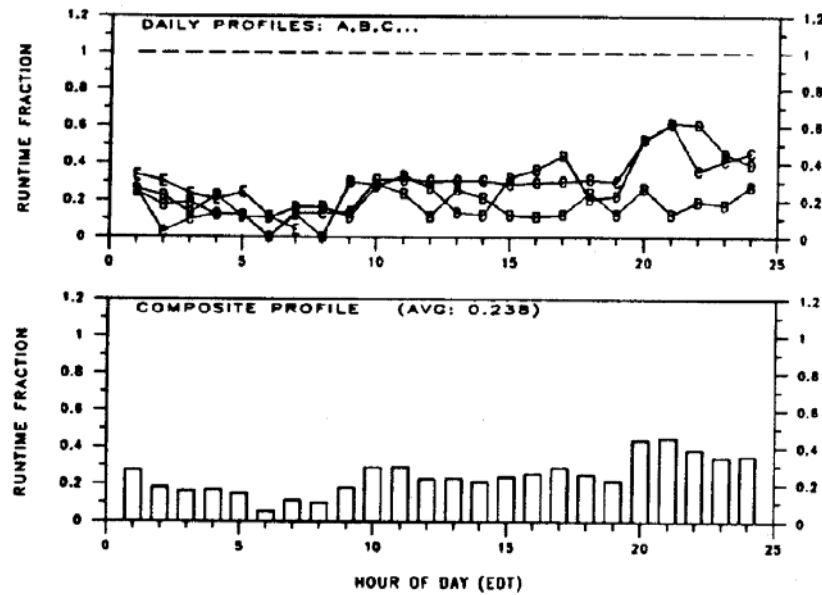
ELAPSED TIME: 80.98

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	80.89	80.98	80.86
AVERAGE RH (%)	55.46	55.14	55.56
HOURS	80.98	10.29	61.69
% HOURS		23.82	76.18

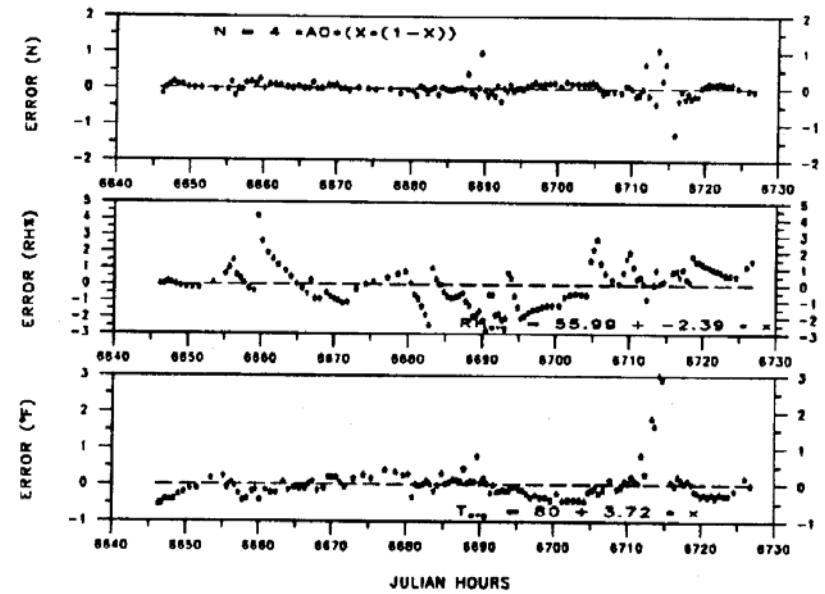
EOF
 EOF
 EOF
 EOF
 EOF
 EOF

THERMOSTAT DATA: SHIREY2

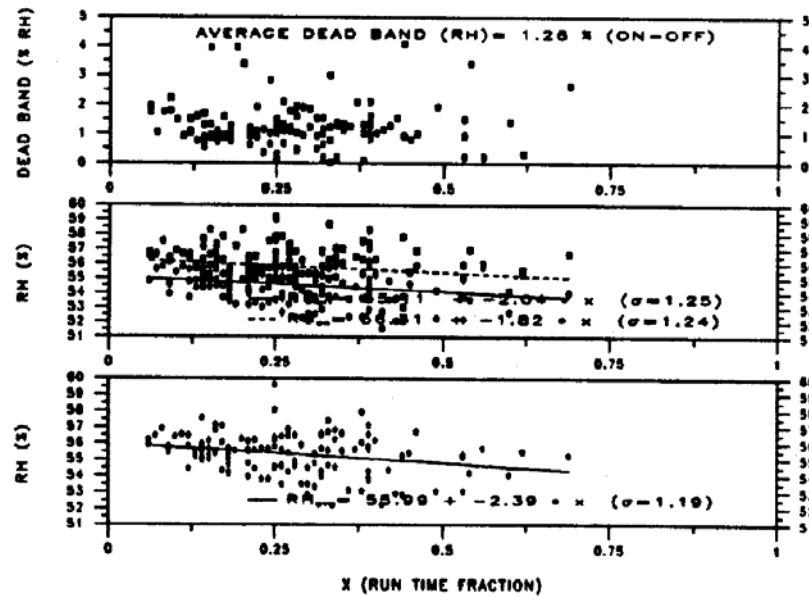
PLOT 4: RUN TIME PROFILES



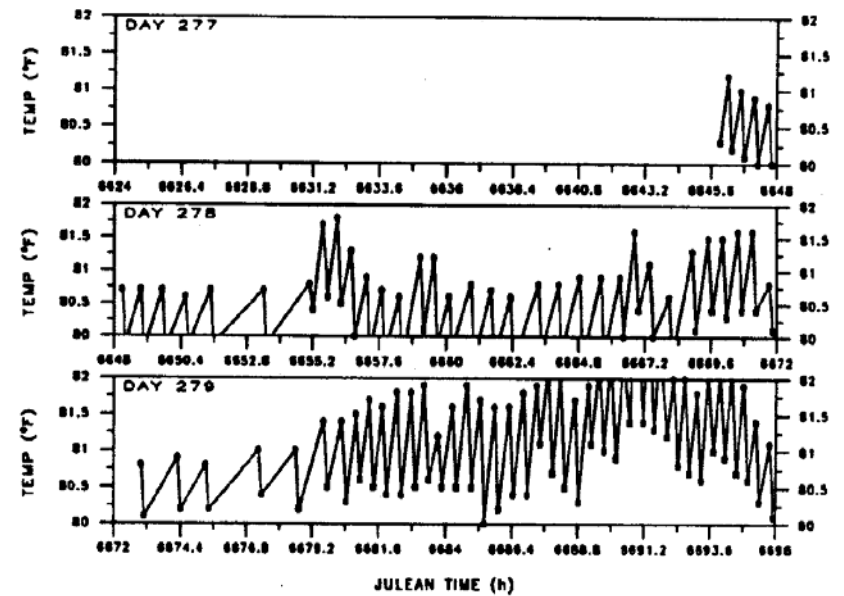
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

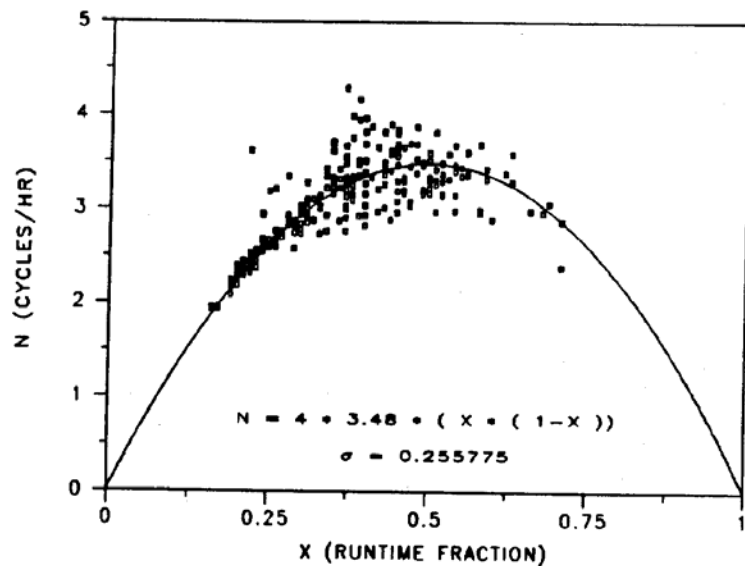
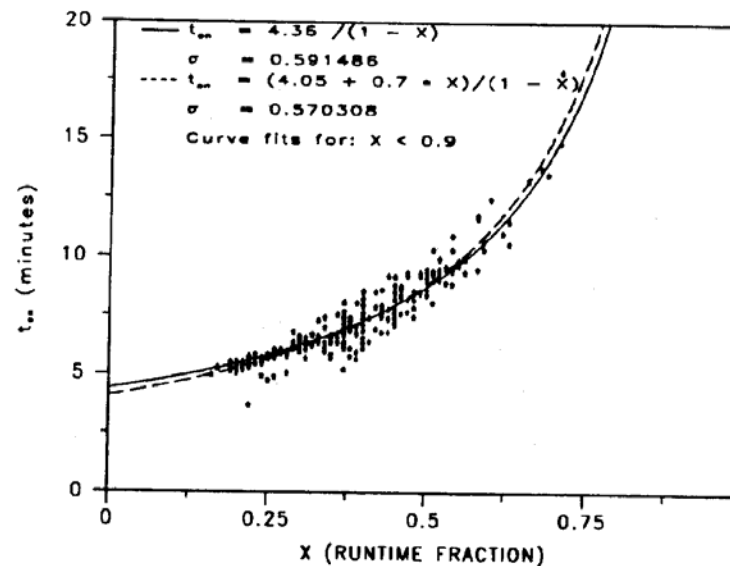


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

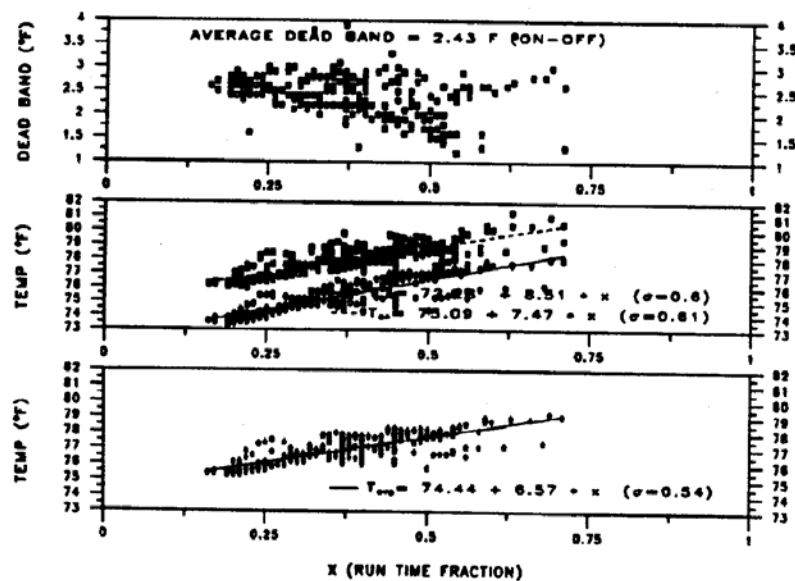


THERMOSTAT DATA: SHIREY2

PLOT 1: CYCLING

PLOT 2: t_{on} 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: KANNAN

START DATE: 10/11 OR 284 TIME: 22: 7: 40 JULEAN HR: 6814.13

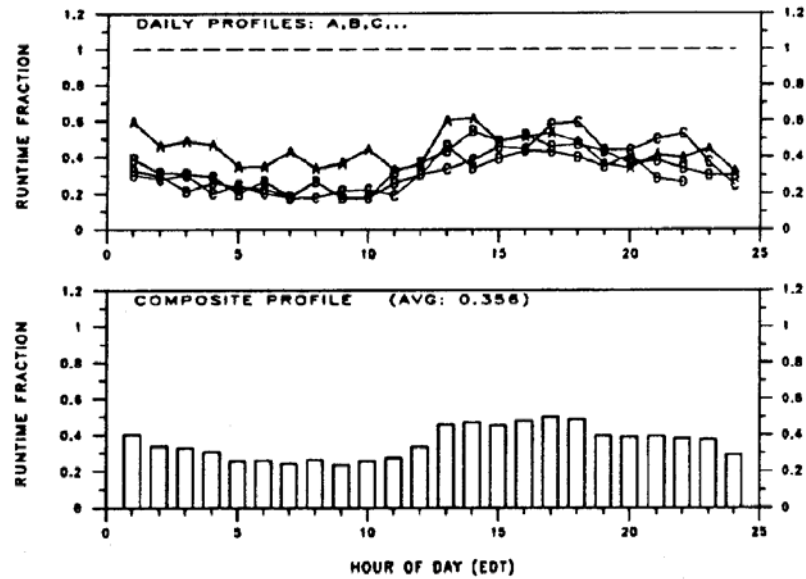
END DATE: 10/15 OR 288 TIME: 21: 53: 55 JULEAN HR: 6909.90

ELAPSED TIME: 95.77

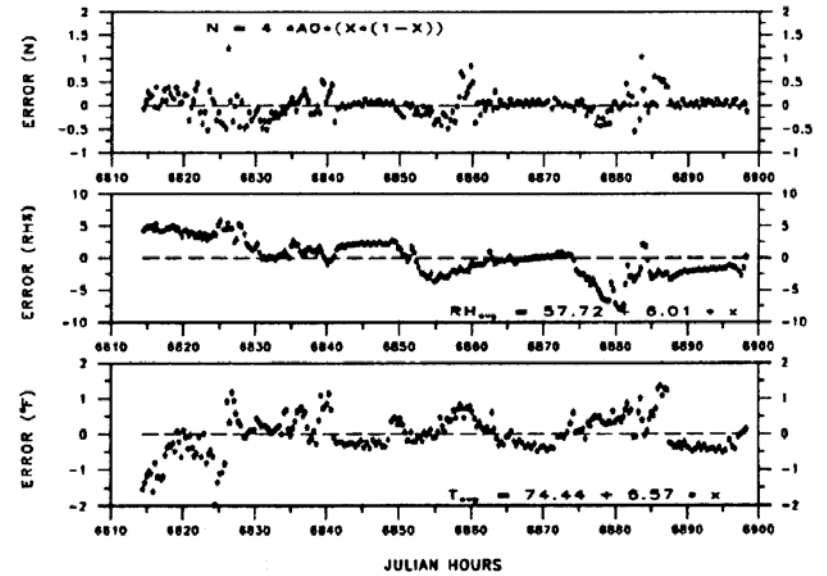
	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	76.79	76.70	76.83
AVERAGE RH (%)	59.45	59.28	59.55
HOURS	95.77	34.43	61.34
% HOURS		35.95	64.05
EOF			
EOF			
EOF			
EOF			
EOF			
EOF			

THERMOSTAT DATA: KANNAN

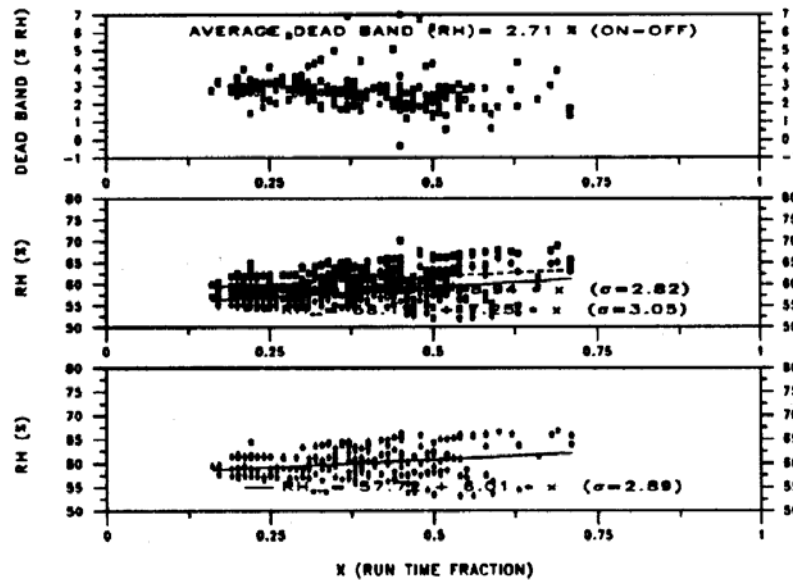
PLOT 4: RUN TIME PROFILES



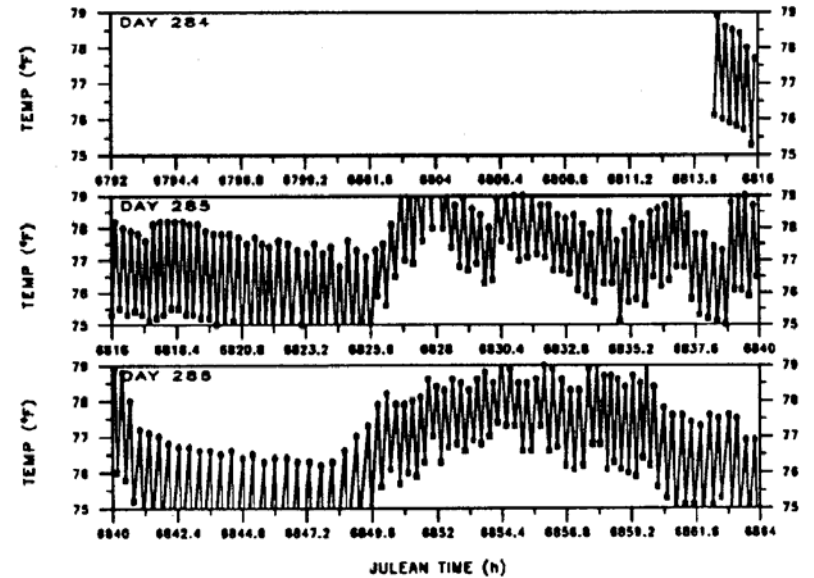
PLOT 5: ERROR ANALYSIS



PLOT 6: HUMIDITY

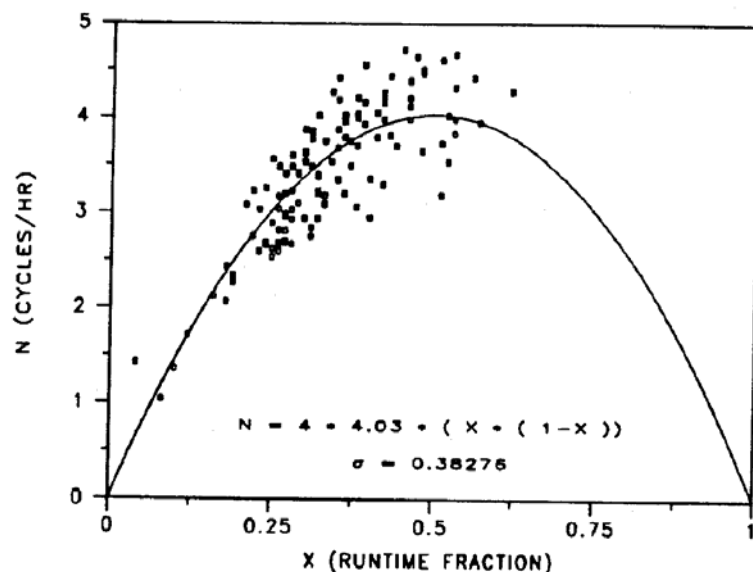
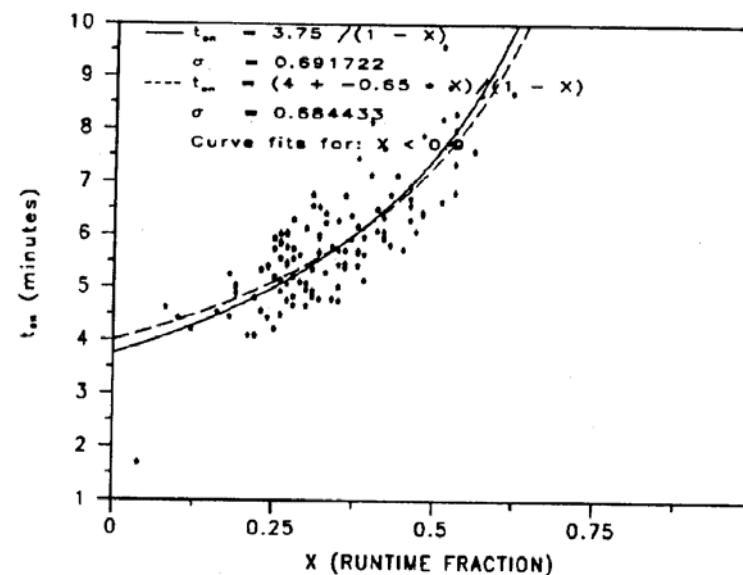


PLOT 7: TEMPERATURE VS TIME (3 DAYS)

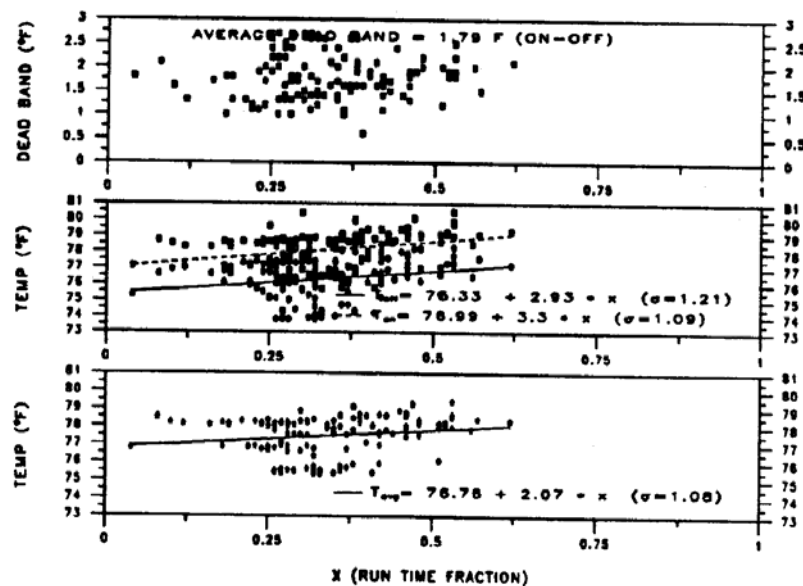


THERMOSTAT DATA: KANNAN

PLOT 1: CYCLING

PLOT 2: t_m 

PLOT 3: TEMPERATURE



SUMMARY OF THERMOSTAT PERFORMANCE DATA

LOCATION: YAROSH2

START DATE: 10/20 OR 293 TIME: 18:13:55 JULEAN HR: 7026.23

END DATE: 10/22 OR 295 TIME: 7: 8:25 JULEAN HR: 7063.14

ELAPSED TIME: 36.91

	TOTAL	ON	OFF
AVERAGE TEMP (DEG F)	77.41	76.99	77.61
AVERAGE RH (%)	63.32	63.05	63.45
HOURS	36.91	11.50	25.41
% HOURS		31.16	68.84

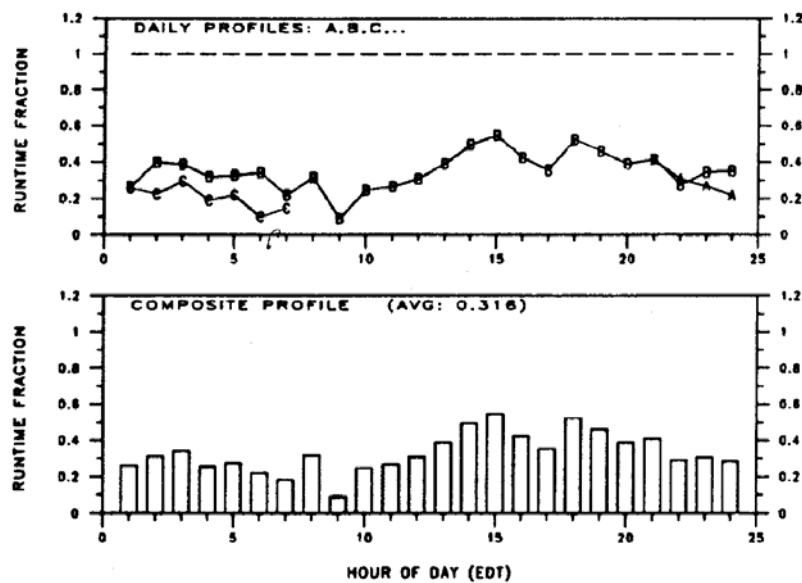
SELECTED DATA RANGE:

STARTING 293. . 18. (7026.000)

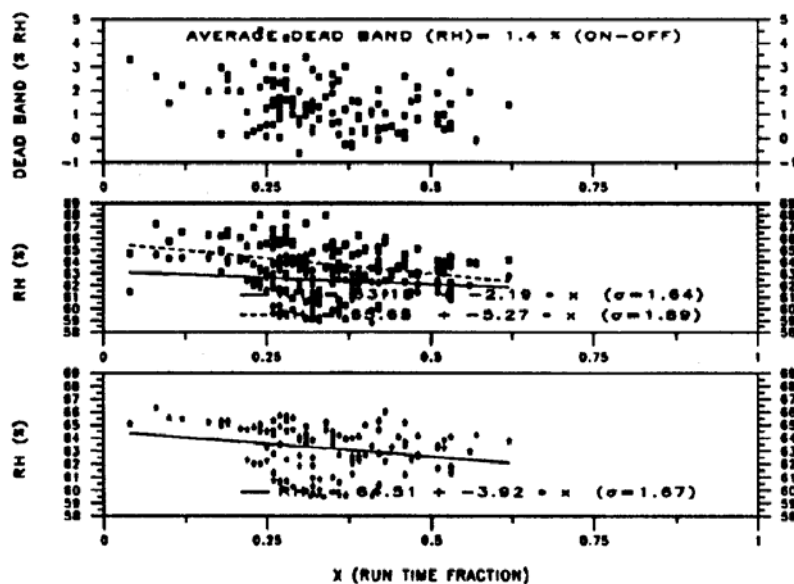
ENDING 295. . 7. (7063.000)

THERMOSTAT DATA: YAROSH2

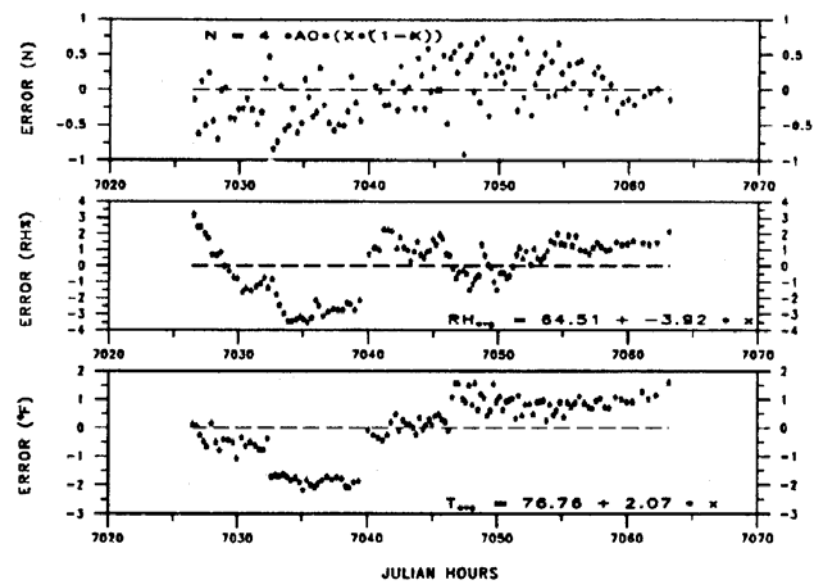
PLOT 4: RUN TIME PROFILES



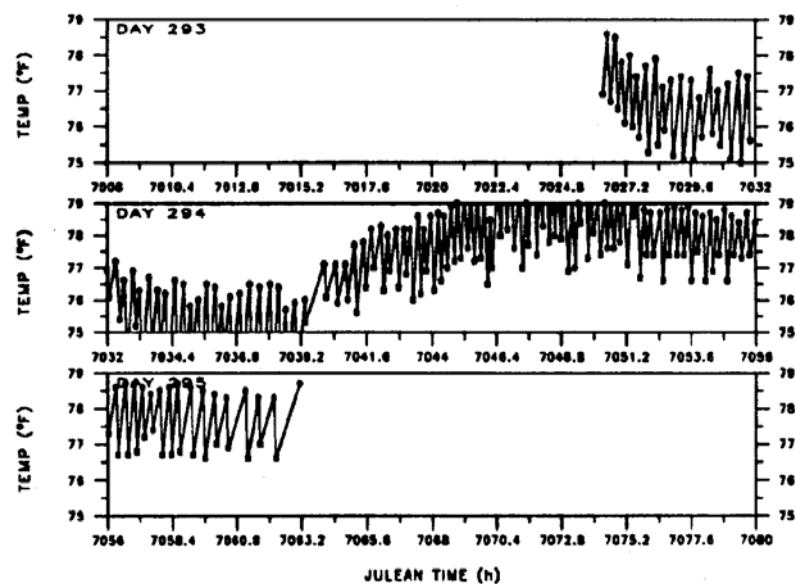
PLOT 6: HUMIDITY



PLOT 5: ERROR ANALYSIS



PLOT 7: TEMPERATURE VS TIME (3 DAYS)



THERMOSTAT DATA: YAROSH2