

AD-A207 370

Unclassified
SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				Form Approved OMB No 0704-0188 Exp. Date Jun 30, 1986	
1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S) R&D 5898-EN-01		
6a. NAME OF PERFORMING ORGANIZATION		6b. OFFICE SYMBOL (If applicable)	7a. NAME OF MONITORING ORGANIZATION USARDSG-UK		
6c. ADDRESS (City, State, and ZIP Code)			7b. ADDRESS (City, State, and ZIP Code) Box 65 FPO NY 09510-1500		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Riso National Laboratory		8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER DAJA45-87-M-0475		
8c. ADDRESS (City, State, and ZIP Code) Department of Meteorology & Wind Energy DK-4000 Roskilde, Denmark			10. SOURCE OF FUNDING NUMBERS PROGRAM ELEMENT NO. PROJECT NO. TASK NO. WORK UNIT ACCESSION NO. 61102A LL161102BH57 01		
11. TITLE (Include Security Classification) <i>See first page of text and cover</i> (U) Participation in Project Wind, Phase IV, Dispersion Study					
12. PERSONAL AUTHOR(S) Mikkelsen, Torben					
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM 9/87 TO 2/88		14. DATE OF REPORT (Year, Month, Day)	
15. PAGE COUNT					
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES FIELD GROUP SUB-GROUP 04 01 04 02			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) The present data report is based on direct turbulence and diffusion measurements performed by Riso National Laboratory during the AMADEUS smoke tests of Project Wind, Phase IV, which took place as a cooperative research-oriented field effort between the U.S. Army Atmospheric Sciences Laboratory (ASL) and the U.S. Department of Agriculture Forest Service (USDAFS) in the Meadow Brook Valley near Red Bluff, California, between 23 September and 7 October 1987. In particular, Riso National Laboratory performed: (1) direct measurements of the surface layer scaling parameters such as heat flux, shear stress, turbulence, and stability measurements at two characteristic locations in the Meadow Brook Valley floor, and (2) concurrently obtained documentation of the plume and puff spread based on aerial photography. The present report provides time series plots of the 10-min averaged covariance matrix of u, v, w, and T from the two sonics together with prints of photos taken of the smoke/puff plumes from an aircraft in a form suitable for subsequent model simulation of individual dispersion scenarios. Required: <i>Required: terrain, wind velocity, atmospheric conditions.</i>					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT. ☒ DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL Jerry C. Comati			22b. TELEPHONE (Include Area Code) +441-402-7331		22c. OFFICE SYMBOL AMXSN-UK-RE

DD FORM 1473, 84 MAR

83 APR edition may be used until exhausted.
All other editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE
Unclassified

RISØ-M-2718

**Project WIND, Phase IV, Dispersion Study:
Aerial Smoke Plume Observations And Surface Layer
Turbulence Measurements, Part I**

T. Mikkelsen, A. Hansen, R.M. Eckman¹, and S. Thykier-Nielsen

Abstract. The present data report contains direct turbulence and diffusion measurements taken by Risø National Laboratory during the AMADEUS smoke tests of Project Wind, Phase IV, which took place as a cooperative research-oriented field effort between the U.S. Army Atmospheric Sciences Laboratory (ASL) and the U.S. Department of Agriculture Forest Service (USDAFS) in the Meadow Brook Valley near Red Bluff, California, between 23 September and 7 October 1987.

In particular, Risø National Laboratory performed (1) direct measurements of the surface layer scaling parameters such as heat flux, shear stress, turbulence, and stability measurements at two characteristic locations in the Meadow Brook Valley floor and (2) concurrently obtained documentation of the plume and puff spread based on aerial photography.

The present report provides time series plots of the 10-min averaged covariance matrix of u, v, w , and T from the two sonics together with prints of photos taken of the smoke/puff plumes from an aircraft in a form suitable for subsequent model simulation of individual dispersion scenarios.

¹present affiliation: ATDD/NOAA, Oak Ridge, TN, USA

Risø National Laboratory, DK-4000 Roskilde, Denmark
January 1989

The present data report was performed under Contract No. DAJA45-87-M0475 to the U.S. Army Research, Development & Standardization Group-U.K. and will be continued in a part II under Contract No. DAJA45-88-M-0325, also to the U.S. Army Research, Development & Standardization Group-U.K.

ISBN 87-550-1431-3
ISSN 0418-6435

Grafisk Service Center, Risø, 1989

Preceding Pages Blank In
Document

Contents

1 Introduction	5
2 Status	7
2.1 Sonic measurements	7
2.2 Aerial photography	8
3 Future work	23
Acknowledgement	25
References	25
Appendix A: Time series plots from sonic A	27
Appendix B: Time series plots from sonic B	35
Appendix C: Listing of data from sonic A	53
Appendix D: Listing of data from sonic B	63
Appendix E: Aerial photographs and log book	99



✓	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	
101	
102	
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	
113	
114	
115	
116	
117	
118	
119	
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	
130	
131	
132	
133	
134	
135	
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
149	
150	
151	
152	
153	
154	
155	
156	
157	
158	
159	
160	
161	
162	
163	
164	
165	
166	
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	
187	
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	
205	
206	
207	
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	
219	
220	
221	
222	
223	
224	
225	
226	
227	
228	
229	
230	
231	
232	
233	
234	
235	
236	
237	
238	
239	
240	
241	
242	
243	
244	
245	
246	
247	
248	
249	
250	
251	
252	
253	
254	
255	
256	
257	
258	
259	
260	
261	
262	
263	
264	
265	
266	
267	
268	
269	
270	
271	
272	
273	
274	
275	
276	
277	
278	
279	
280	
281	
282	
283	
284	
285	
286	
287	
288	
289	
290	
291	
292	
293	
294	
295	
296	
297	
298	
299	
300	
301	
302	
303	
304	
305	
306	
307	
308	
309	
310	
311	
312	
313	
314	
315	
316	
317	
318	
319	
320	
321	
322	
323	
324	
325	
326	
327	
328	
329	
330	
331	
332	
333	
334	
335	
336	
337	
338	
339	
340	
341	
342	
343	
344	
345	
346	
347	
348	
349	
350	
351	
352	
353	
354	
355	
356	
357	
358	
359	
360	
361	
362	
363	
364	
365	
366	
367	
368	
369	
370	
371	
372	
373	
374	
375	
376	
377	
378	
379	
380	
381	
382	
383	
384	
385	
386	
387	
388	
389	
390	
391	
392	
393	
394	
395	
396	
397	
398	
399	
400	
401	
402	
403	
404	
405	
406	
407	
408	
409	
410	
411	
412	
413	
414	
415	
416	
417	
418	
419	
420	
421	
422	
423	
424	
425	
426	
427	
428	
429	
430	
431	
432	
433	
434	
435	
436	
437	
438	
439	
440	
441	
442	
443	
444	
445	
446	
447	
448	
449	
450	
451	
452	
453	
454	
455	
456	
457	
458	
459	
460	
461	
462	
463	
464	
465	
466	
467	
468	
469	
470	
471	
472	
473	
474	
475	
476	
477	
478	
479	
480	
481	
482	
483	
484	
485	
486	
487	
488	
489	
490	
491	
492	
493	
494	
495	
496	
497	
498	
499	
500	
501	
502	
503	
504	
505	
506	
507	
508	
509	
510	
511	
512	
513	
514	
515	
516	
517	
518	
519	
520	
521	
522	
523	
524	
525	
526	
527	
528	
529	
530	
531	
532	
533	
534	
535	
536	
537	
538	
539	
540	
541	
542	
543	
544	
545	
546	
547	
548	
549	
550	
551	
552	
553	
554	
555	
556	
557	
558	
559	
560	
561	
562	
563	
564	
565	
566	
567	
568	
569	
570	
571	
572	
573	
574	
575	
576	
577	
578	
579	
580	
581	
582	
583	
584	
585	
586	
587	
588	
589	
590	
591	
592	
593	
594	
595	
596	
597	
598	
599	
600	
601	
602	
603	
604	
605	
606	
607	
608	
609	
610	
611	
612	
613	
614	
615	
616	
617	
618	
619	
620	
621	
622	
623	
624	
625	
626	
627	
628	
629	
630	
631	
632	
633	
634	
635	
636	

1 Introduction

Aerial photographs of smoke plumes is a relatively inexpensive source of diffusion data. Surface-layer turbulence characteristics are obtainable from operational, on-line sonic-anemometer/thermometer-based data acquisition systems.

We have supported the AMADEUS dispersion study over complex terrain by conducting the two above-mentioned experimental activities in the Meadow Brook Valley, located some 15 miles northeast of Red Bluff, California during the period 23 September through 7 October 1987. The present report organizes the obtained data and pictures in a form suitable for subsequent modelling efforts.

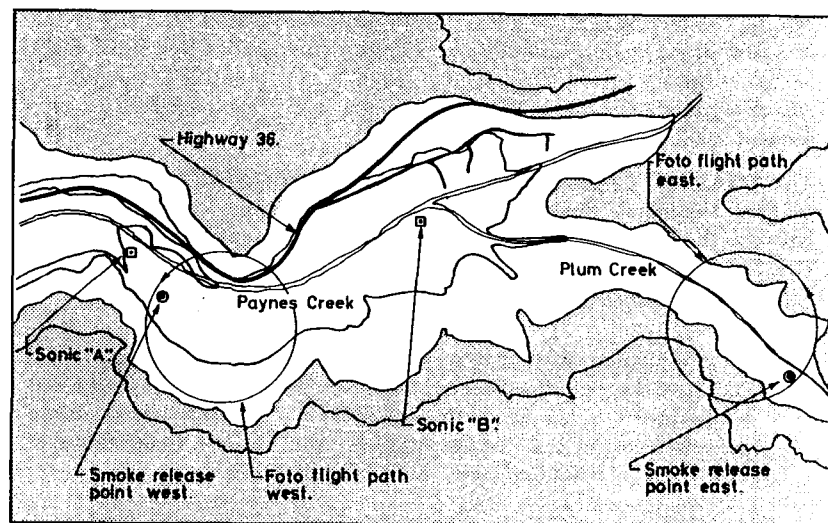
The AMADEUS dispersion study was part of Project WIND (Wind In Non-uniform Domains), Phase IV, a cooperative research-oriented field effort between the U.S. Army Atmospheric Sciences Laboratory (ASL) and the U.S. Department of Agriculture Field Service (USDAFS). In particular, our experimental objectives were set as follows:

1. To mount and operate two sonic anemometers/thermometers, A and B on two 7-m high meteorological masts, for measuring velocity and temperature signals above the valley floor – and from these obtain measurements of the 10-min averaged mean, variances, and fluxes of wind speed, turbulence level, shear, and heat flux.

Sonic A was located immediately upwind (down-valley) from the day-time smoke emission point, see Fig. 1.

Sonic B (see Fig. 1) was located in the central part of the valley near the command post, see Fig. 1.

2. A small general-aviation airplane was operated over the experimental site to obtain instantaneous observations of the plume dispersion, and to document the flow and dispersion pattern on photographs.



AMADEUS Experimental Area.

Figure 1: The AMADEUS experimental area.

2 Status

The present is the first of two data reports based on turbulence measurements and aerial plume photographs obtained during the Project WIND, Phase IV, AMADEUS experiments.

2.1 Sonic measurements

Sonic A was in operation during daytime (up-valley) smoke and tracer release trails.

Sonic B (central-valley) was in continuous operation through the ~400-hour experimental campaign lasting from 20 September through 5 October 1987.

Figures 2, 3, and 4 plot the temperature, wind speed, and direction measured by sonic B. There is a profound daily cycle in these signals, showing up-valley winds at daytime and down-valley night-time drainage. The temperature signal speaks for itself! The periodicity is amazing.

Data from the sonics, which are processed into some 20,000 10-min averaged surface layer scaling parameters by the method described in Mortensen et al. (1987), are contained in Appendices A, B, C, and D. Appendices A and B contain time series plots of the following surface layer parameters:

1. mean wind speed	$\bar{u}$	[m/s]
2. mean direction	$\bar{D}$	[degrees]
3. mean temperature	$\bar{T}$	[°C]
4. total energy ¹	e	[m ² /s ²]
5. stress ²	u_*	[m/s]
6. total heat flux ³	H	[watt/m ²]
7. stability parameter ⁴	$\xi \equiv \frac{z}{L}$	

measured at 7-m height above the valley floor with sonic A and B, respectively.

$$\text{note}^1 : e \equiv \frac{1}{2} (\overline{u'^2} + \overline{v'^2} + \overline{w'^2})$$

$$\text{note}^2 : u_*^2 \equiv (\overline{u'w'^2} + \overline{v'w'^2})^{1/2}$$

$$\text{note}^3 : H \equiv \rho c_p \overline{w'T'}$$

$$\text{note}^4 : L = - \frac{T u_*^3}{k g \overline{w'T'}}$$

Appendices C and D hold the corresponding values in tabular form. Note that the time group *scan start* is the time of start for the following 10-min

averaged period. Also note that the data-acquisition scan rate is 1 sec (600 readings per channel each 10-min period) and that *point sampling and hold* (no averaging of the sonic signals) have been applied.

2.2 Aerial photography

Approximately some 350 35-mm photos were taken from the aircraft which now serve as documentation of 10 successfully conducted smoke trials. Five of these were taken during unstable (daytime) conditions, the remaining five during stable (early morning) trials. Four trials were not supported by photographing: two trials are missing due to problems with the M3A4 smoke generator, two trials were conducted at night-time with insufficient light for aerial photography.

In Appendix E are enclosed contact prints of the original negatives from the smoke trials together with our log report on the experiments. Although not evident from the Xerox copies enclosed in Appendix I, the raw films are of very high quality and applicable for sufficient enlargement. In addition, each picture is provided with the exact timing of exposure (year, day, hour, min, sec).

Using a 50-mm lens, photographs were taken during daytime at a height of 2000 ft. and during night-time (early morning) at a height of 3000 ft above the smoke emission point. At this point the original negatives have been handed over to the ASL. Ten of these aerial photographs have been enlarged and appear as Figs. 5 through Fig. 14. They demonstrate the vast difference in the flow and diffusion pattern between day and night trials encountered during the AMADEUS experiments:

Figs. 5-7 represent the daytime up-valley diffusion - or rather convection. In Fig. 7 the plume shadow indicates that the plume is caught in a strong vertical updraft.

The photographs shown in Figs. 8 and 9 were taken during relatively strong winds (> 5 m/s) on 26 September and resemble more near-neutral plume behaviour, note that the plume keeps ground contact at extensive downwind distances.

During the unstable daytime trials it is difficult to see any significance of the orography on the dispersion process - at least on the ~ 1 -km scale of downwind diffusion observable from the aircraft.

The photographs shown in Figs. 10 through 14 were taken during early-morning stable down-valley drainage flow situations:

Figure 10 shows a typical drainage flow-dispersion situation where the plume is heavily influenced by the terrain because the flow follows the curvature and shape of the valley. Even though very stably stratified, the horizontal diffusion is very large - probably due to shear and turbulence created in the canopy.

Figure 11 shows the plume climbing over the bank of the valley - a relatively rare event, but possibly caused by large-scale temporal undulations in the flow field (gravity wave?).

In Fig. 12 the stable plume is leaving Plum Creek Valley and is spilling into the bigger Meadow Brook Valley where it will stick to the south bank at first and later gradually dilute and fill in the entire valley (Figs. 13 and 14).

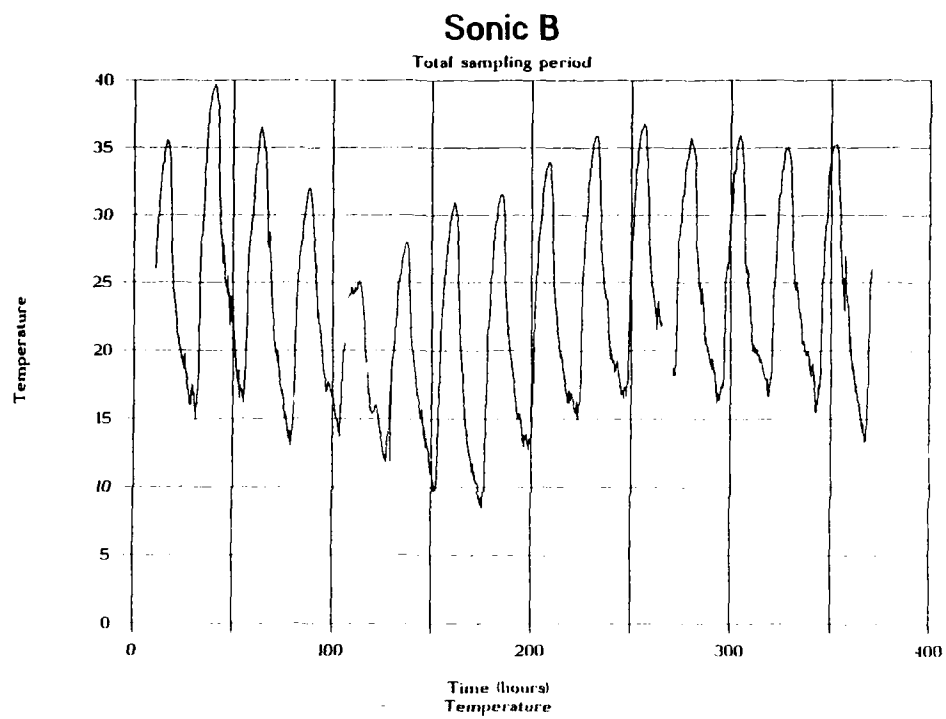


Figure 2: Daily temperature variation.

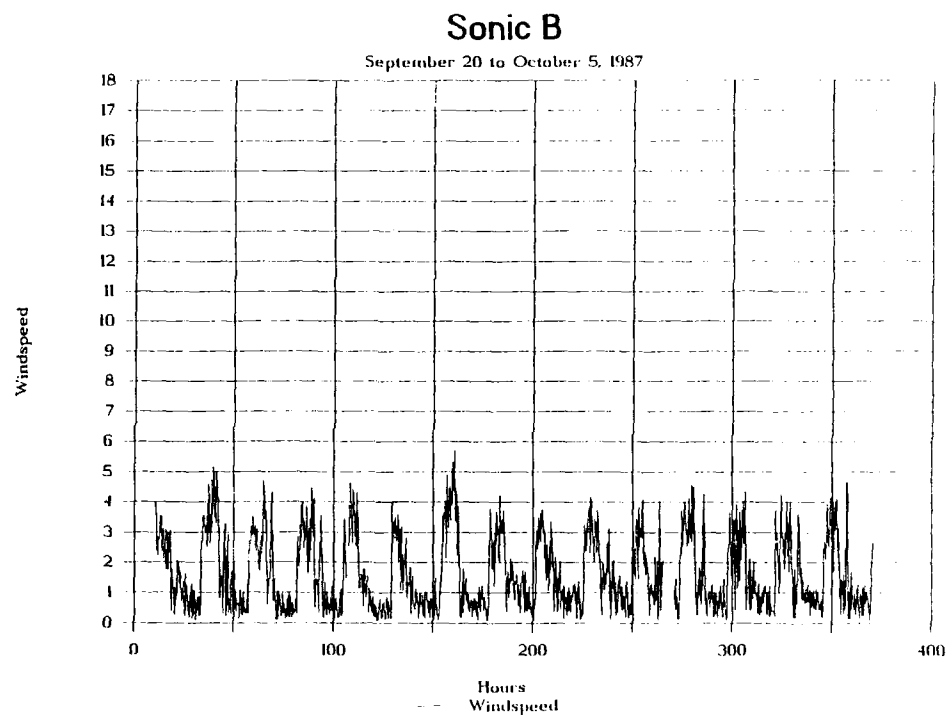


Figure 3: Daily wind speed variation.

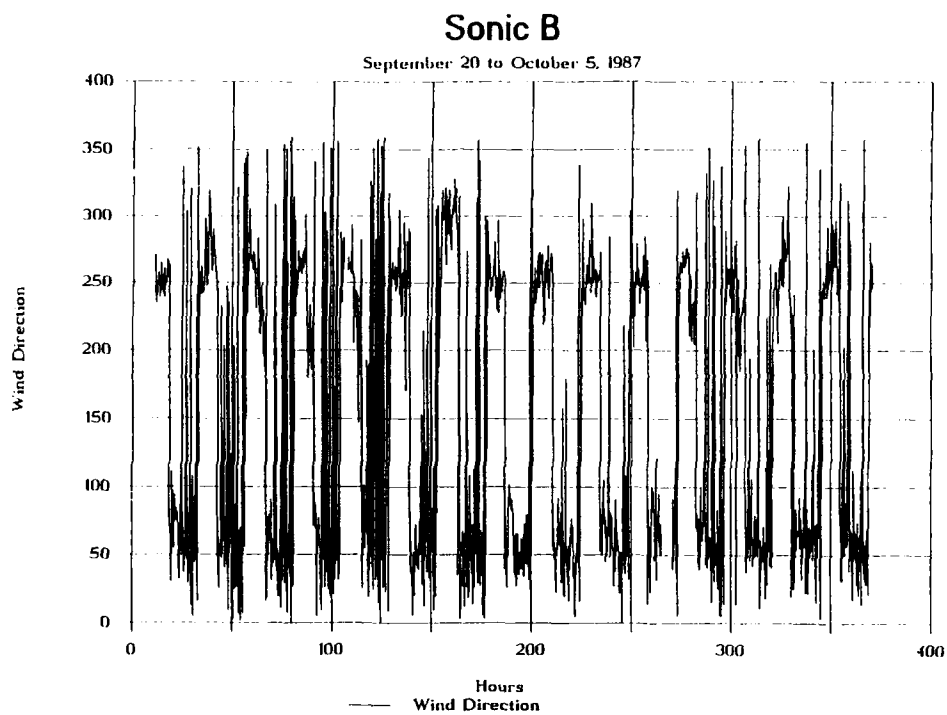


Figure 4: Daily wind direction variation.



Figure 5: Up-valley flow/unstable convection, plate No. 5, picture No. 10.



Figure 6: Up-valley flow/unstable convection, plate No. 11, picture No. 17.



Figure 7: Up-valley flow/the plume is caught in updraft, plate No. 9, picture No. 15.



Figure 8: Up-valley flow/strong wind near-neutral, plate No. 2, picture No. 23.

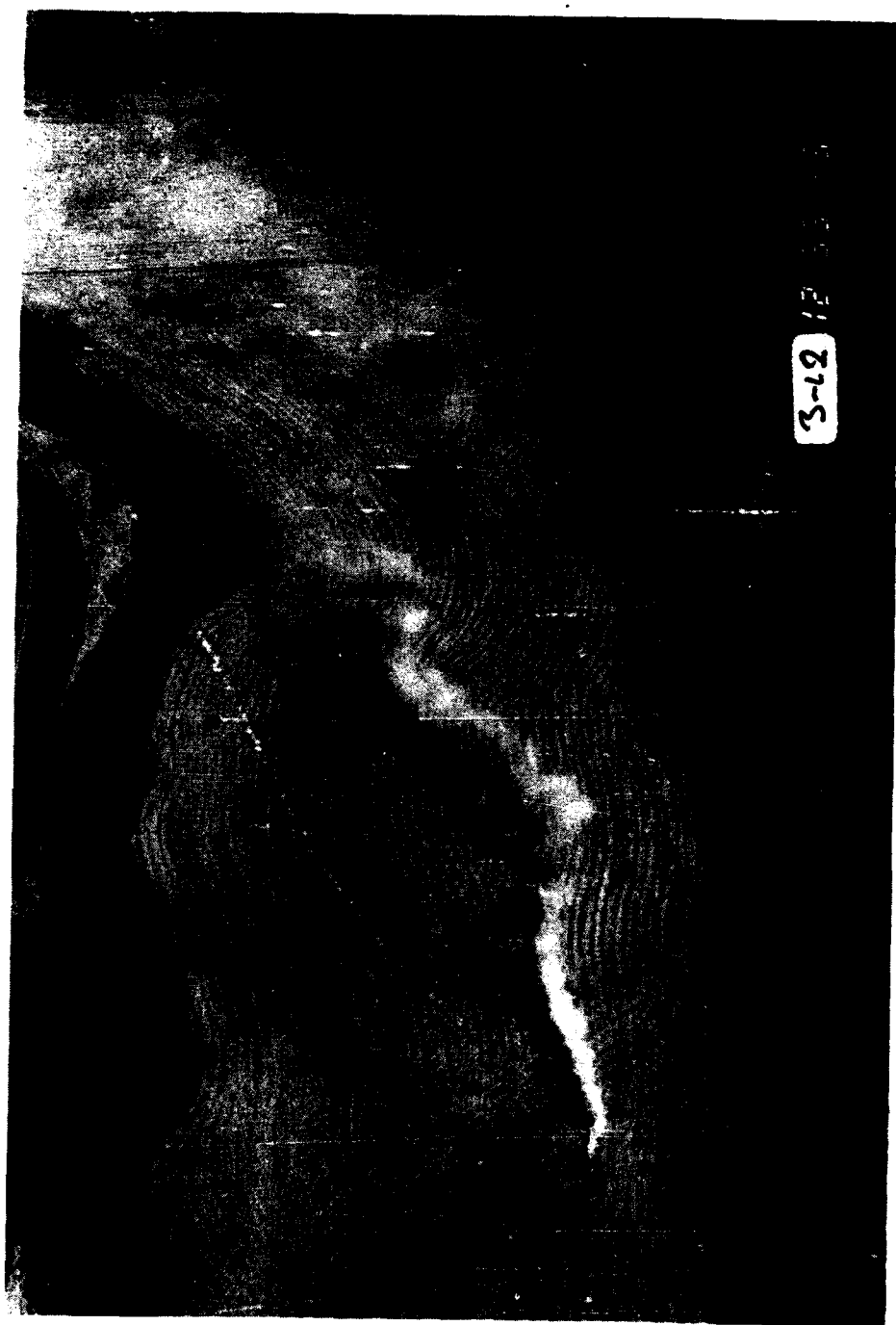


Figure 9: Up-valley flow/strong wind near-neutral as in Fig. 5, half an hour later, plate No. 3, picture No. 12.



Figure 10: Early morning drainage flow (down-valley), stable, plate No. 10, picture No. 21.



Figure 11: Drainage flow as in Fig. 7 – the plume meanders the valley bank, plate No. 7, picture No. 22.



Figure 12: Drainage flow. The plume leaves Plum Creek and spills into the bigger Meadow Brook Valley, plate No. 6, picture No. 16.



Figure 13: Drainage flow. The plume enters Meadow Brook Valley and dilutes, plate No. 8, picture No. 5.



Figure 14: Drainage flow continued - as in Fig. 10. Note that the plume sticks to the southern side of the valley because of cold air being drained into the valley from the left, plate No. 8, picture No. 6.

3 Future work

The work is continuing at Risø National Laboratory (Denmark) to extend the already completed statistical analysis of the sonic anemometer measurements, based on 10-min average quantities, to additionally include:

1. Time series plots of analog-recorded wind and temperature signals
2. Mean wind, direction, turbulence level, shear stress, and heat flux based on short averaging times (1–5 min).
3. Spectral analysis of the measured wind and temperature signals.

This additional analysis has been judged important to the overall AMADEUS experiments with respect to the following:

1. To gain deeper insight in the fine-scale temporal evaluation of the boundary layer flow and turbulence at the Madow Brook Valley floor during each of the successful SF_6 and smoke diffusion experiments.
2. To identify the most energetic turbulence scales (spectral values) responsible for the exchange and diffusion processes measured.
3. To provide detailed turbulence statistics for use in subsequent, model simulation of the individual experiments.

While the already calculated 10-min averaged statistical quantities were digitized and processed on-line during the AMADEUS experiments, the extension will require the FM analog-recorded sonic signals of the three wind components, u, v, w and temperature T , to be:

1. rapidly digitized and block-averaged into 20-Hz sampled raw-data time series
2. plotted as time series for full-quality assurance of the raw data
3. processed into 1-min averaged mean and turbulence quantities, including energy, heat flux, and shear stress
4. processed into normalized velocity component spectra of u, v, w , and normalized temperature spectra.

Consequently, a second and more detailed data report on the sonic turbulence measurements will become available during 1989.

Acknowledgement

The authors gratefully acknowledge senior meteorologist, AMADEUS project manager Ronald M. Cionco of the Atmosphere Sciences Laboratory together with Mr. Jerry C. Comati, the U.S. Army Research, Development and Standardization Group-UK, for facilitating our participation in the AMADEUS smoke diffusion tests. The work was sponsored by the U.S. Army Research Development and Standardization Group-UK under Contract No. DAJA45-87-M-0475.

References

Mortensen, N.G., Larsen, S.E., Troen, I, and Mikkelsen, T. (1986). Two-years-worth of turbulence data recorded by a sonic-anemometer-based data acquisition system. Sixth Symposium on Meteorological Observations and Instrumentation, 12-16 January 1987, New Orleans, LA, U.S.A.

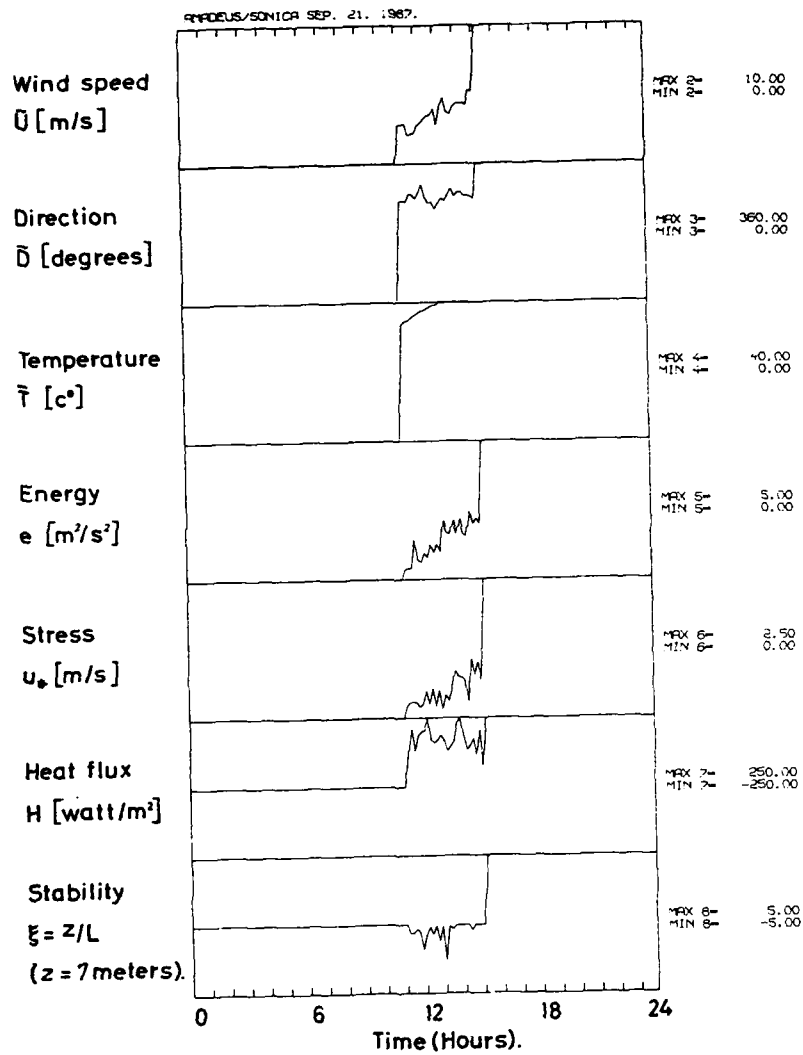
Appendix A

Time series plots from sonic A:

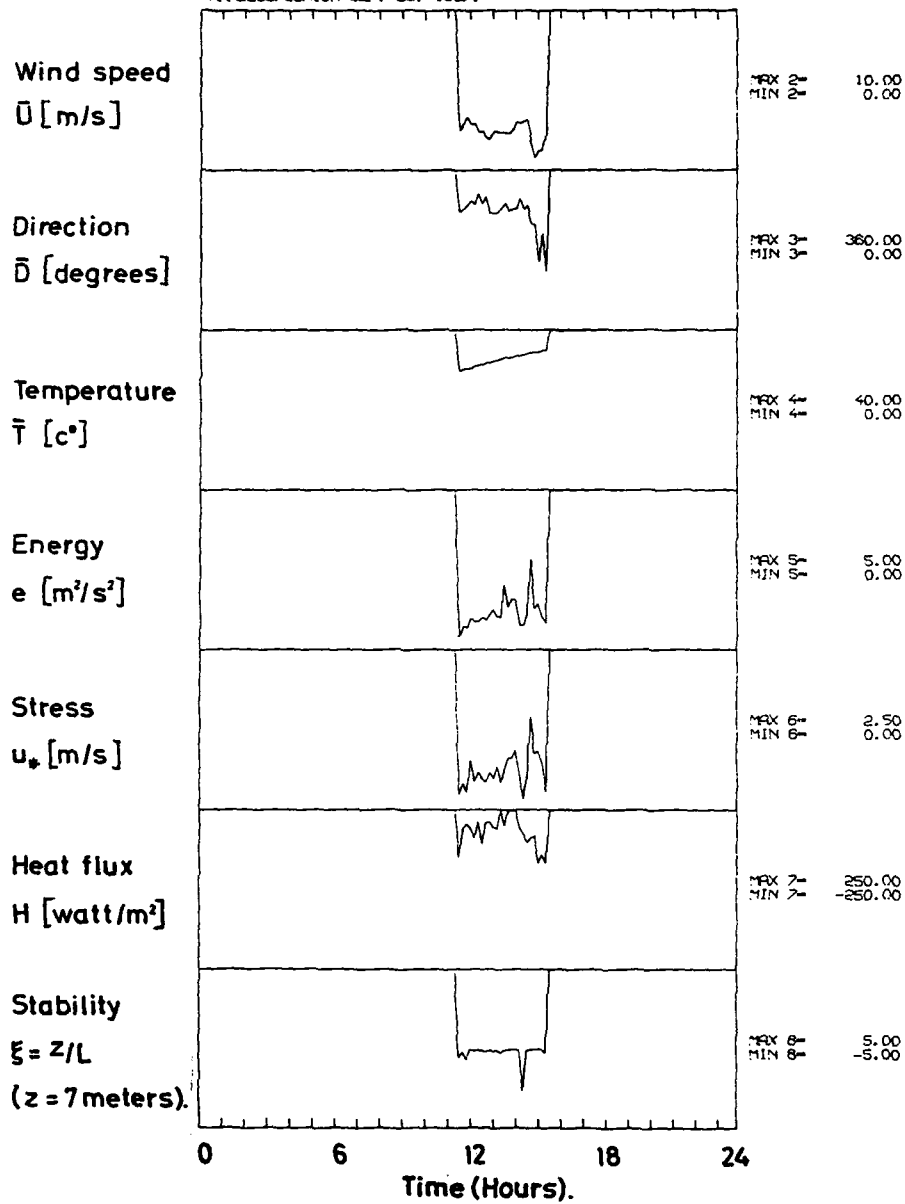
Sampling time per data point : 10 min
Scanning frequency : 1 Hz
Height of measurement : 7.0 m
Sonic anemometer : Kaijo Denki Type DAT-300
with probe TR61A (scientific type)

Data acquisition:

Voltmeter : Hewlett Packard type 3421A
Controller : Hewlett Packard HP85B



RADEUS/SONICA SEP. 23, 1987.



RADEUS/SONICA SEP. 25. 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 2- 10.00
MIN 2- 0.00

Direction
 $\bar{D}$ [degrees]

MAX 3- 360.00
MIN 3- 0.00

Temperature
 $\bar{T}$ [c°]

MAX 4- 40.00
MIN 4- 0.00

Energy
 e [m²/s²]

MAX 5- 5.00
MIN 5- 0.00

Stress
 u_* [m/s]

MAX 6- 2.50
MIN 6- 0.00

Heat flux
 H [watt/m²]

MAX 7- 250.00
MIN 7- -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 8- 5.00
MIN 8- -5.00

0 6 12 18 24
Time (Hours).

ATLAS/SONICA SEP. 26. 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 2= 10.00
MIN 2= 0.00

Direction
 $\bar{D}$ [degrees]

MAX 3= 360.00
MIN 3= 0.00

Temperature
 $\bar{T}$ [C°]

MAX 4= 40.00
MIN 4= 0.00

Energy
 e [m²/s²]

MAX 5= 5.00
MIN 5= 0.00

Stress
 u_* [m/s]

MAX 6= 2.50
MIN 6= 0.00

Heat flux
 H [watt/m²]

MAX 7= 250.00
MIN 7= -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 8= 5.00
MIN 8= -5.00

0 6 12 18 24
Time (Hours).

SHADEUS/SONICA SEP. 28. 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX MIN $\psi\psi$ 10.00 0.00

Direction
 $\bar{D}$ [degrees]

MAX MIN $\psi\psi$ 360.00 0.00

Temperature
 $\bar{T}$ [c°]

MAX MIN $\uparrow\uparrow$ 40.00 0.00

Energy
 e [m²/s²]

MAX MIN $\psi\psi$ 5.00 0.00

Stress
 u_* [m/s]

MAX MIN $\psi\psi$ 2.50 0.00

Heat flux
 H [watt/m²]

MAX MIN $\uparrow\downarrow$ 250.00 -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX MIN $\psi\psi$ 5.00 -5.00

0 6 12 18 24
Time (Hours).

RHODEUS/SONICA OCT. 1, 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 2 10.00
MIN 2 0.00

Direction
 $\bar{D}$ [degrees]

MAX 3 360.00
MIN 3 0.00

Temperature
 $\bar{T}$ [c°]

MAX 4 40.00
MIN 4 0.00

Energy
 e [m²/s²]

MAX 5 5.00
MIN 5 0.00

Stress
 $u_{\star}$ [m/s]

MAX 6 2.50
MIN 6 0.00

Heat flux
 H [watt/m²]

MAX 7 250.00
MIN 7 -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 8 5.00
MIN 8 -5.00

0 6 12 18 24
Time (Hours).

RHODEUS/SONICA OCT. 2. 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX $\bar{U}$ 10.00
MIN $\bar{U}$ 0.00

Direction
 $\bar{D}$ [degrees]

MAX $\bar{D}$ 360.00
MIN $\bar{D}$ 0.00

Temperature
 $\bar{T}$ [c°]

MAX $\bar{T}$ +0.00
MIN $\bar{T}$ 0.00

Energy
 e [m²/s²]

MAX e 5.00
MIN e 0.00

Stress
 u_τ [m/s]

MAX u_τ 2.50
MIN u_τ 0.00

Heat flux
 H [watt/m²]

MAX H 250.00
MIN H -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX ξ 5.00
MIN ξ -5.00

0 6 12 18 24
Time (Hours).

Appendix B

Time series plots from sonic B:

Sampling time per data point : 10 min
Scanning frequency : 1 Hz
Height of measurement : 7.0 m
Sonic anemometer : Kaijo Denki Type DAT-300
with probe TR61B (omnidirectional)

Data acquisition:

Voltmeter : Hewlett Packard type 3421A
Controller : Hewlett Packard HP85B

PHOEBUS/SONICS SEP. 20 1967.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

AMDEUS/SONICS SEP. 21 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

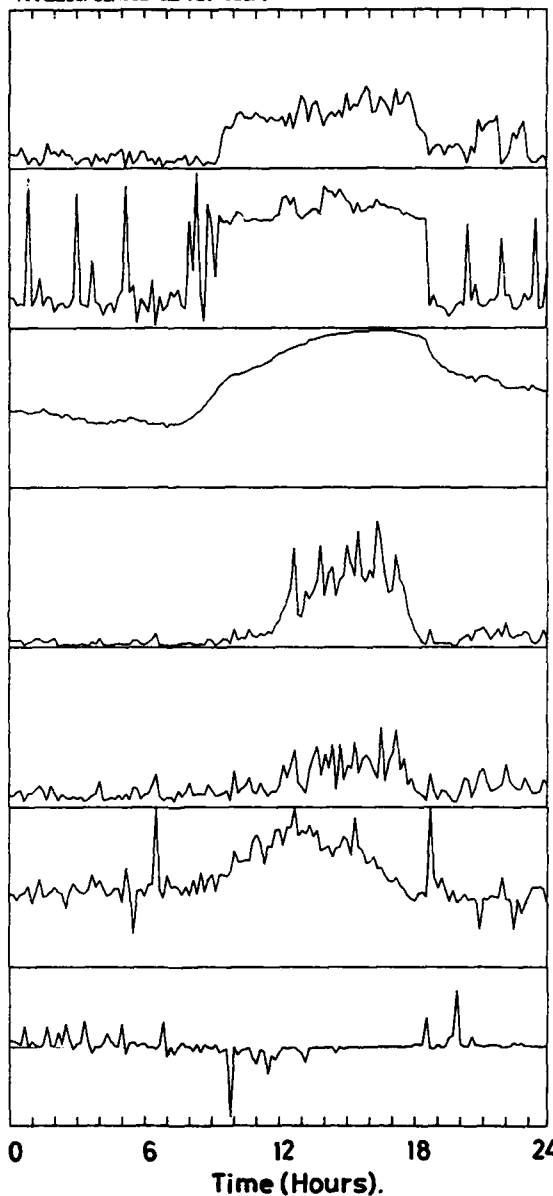
MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00



ANDEUS/SONIC8 SEP.22 1967.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

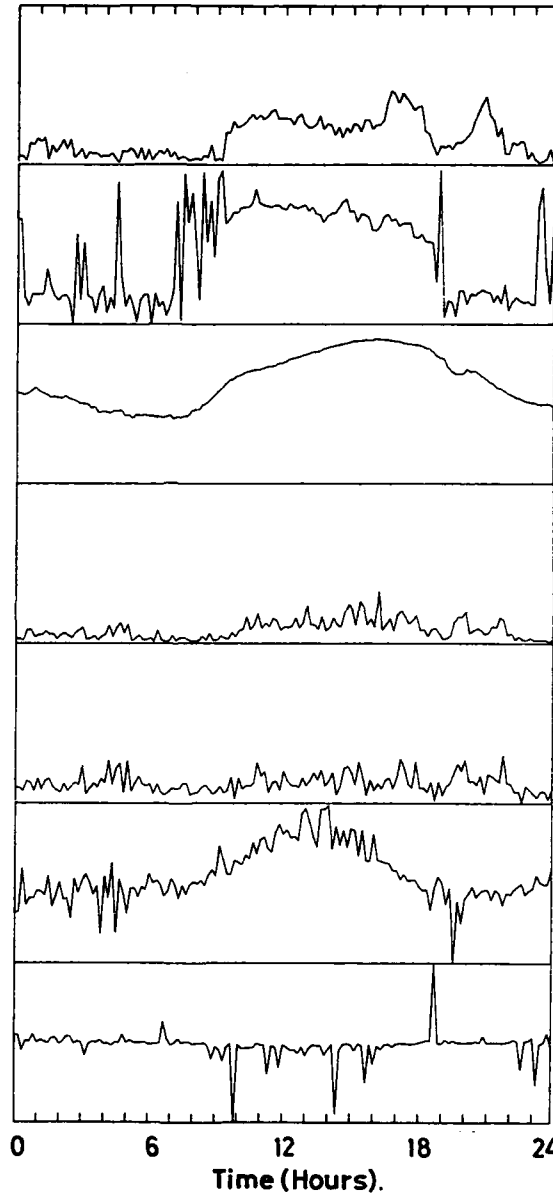
MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 280.00
MIN -280.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 0.50
MIN 0.00



AMDELS/SONICS SEP. 23 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 22 10.00
MIN 02 0.00

Direction
 $\bar{D}$ [degrees]

MAX 31 360.00
MIN 31 0.00

Temperature
 $\bar{T}$ [c°]

MAX 41 40.00
MIN 41 0.00

Energy
 e [m²/s²]

MAX 51 5.00
MIN 51 0.00

Stress
 u_* [m/s]

MAX 61 2.50
MIN 61 0.00

Heat flux
 H [watt/m²]

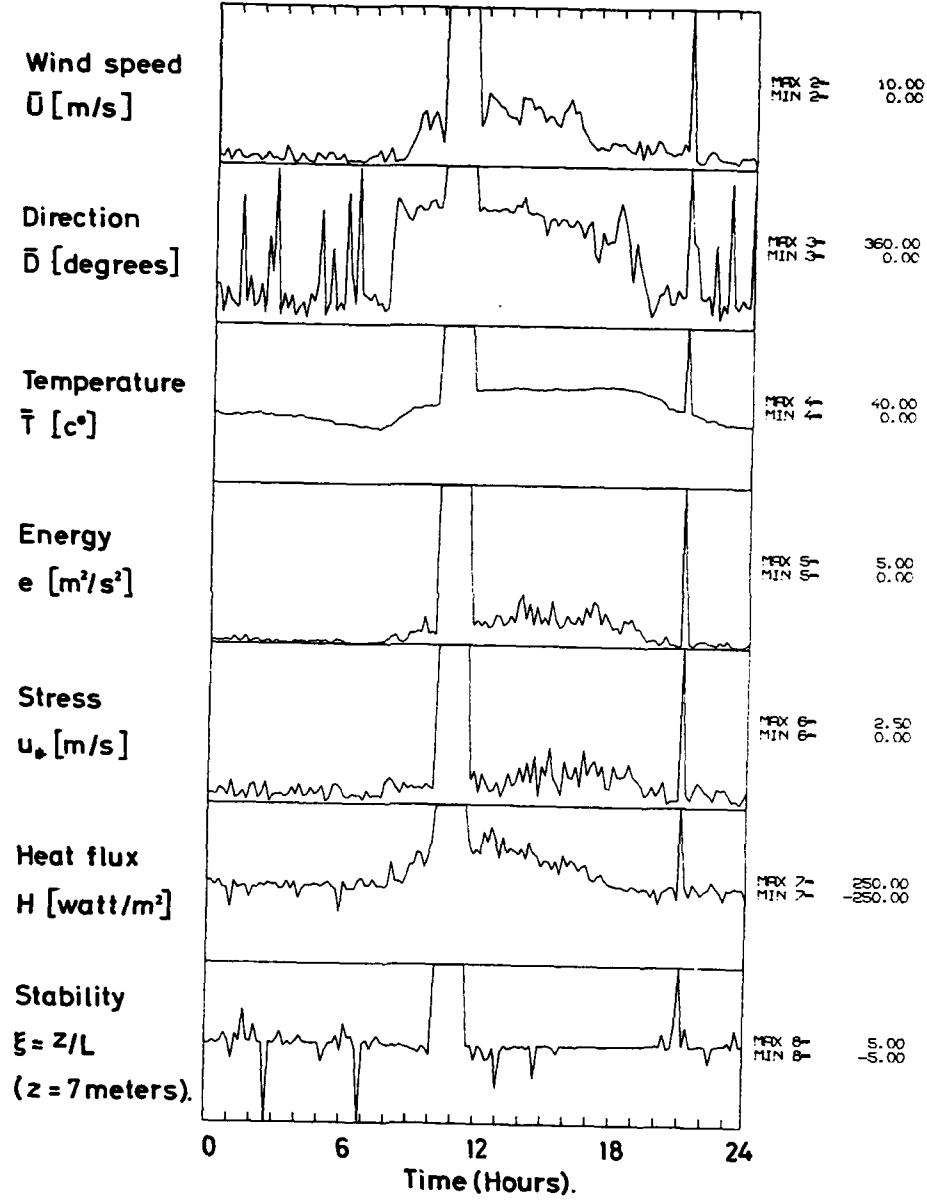
MAX 71 250.00
MIN 71 -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 81 5.00
MIN 81 -5.00

0 6 12 18 24
Time (Hours).

RTDEUS/SONICS SEP. 24 1987.



RADEUS/SONIC8 SEP. 25 1987.

Wind speed
 U [m/s]

MAX 2.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [C°]

MAX 40.00
MIN 0.00

Energy
 e [m³/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

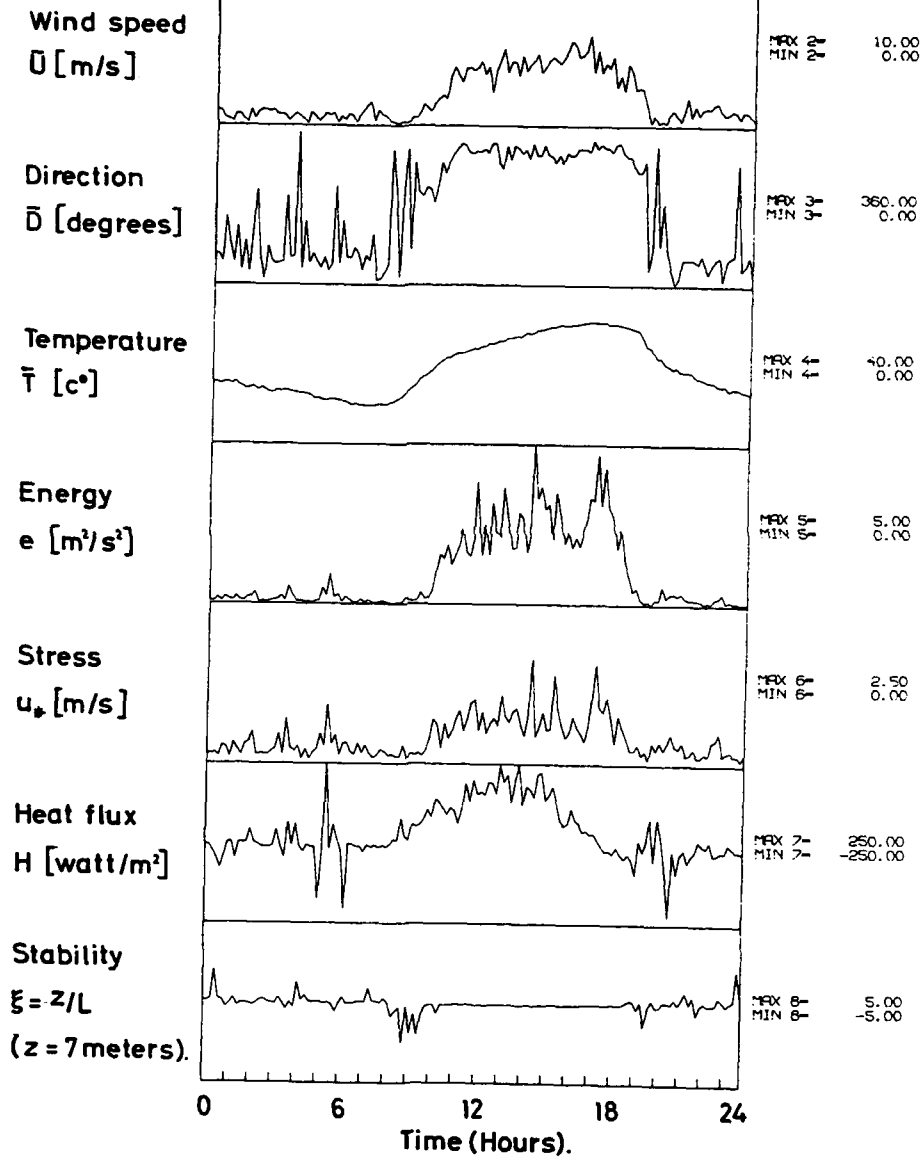
MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

ATLAS/SONICB SEP, 26 1987.



ATADEUS/SONICB SEP. 27 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

ARADEUS/SONIC8 SEP. 26 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

RADEUS/SONICB SEP. 29 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

AMDEUS/SONICB SEP.30 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 $u_\star$ [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

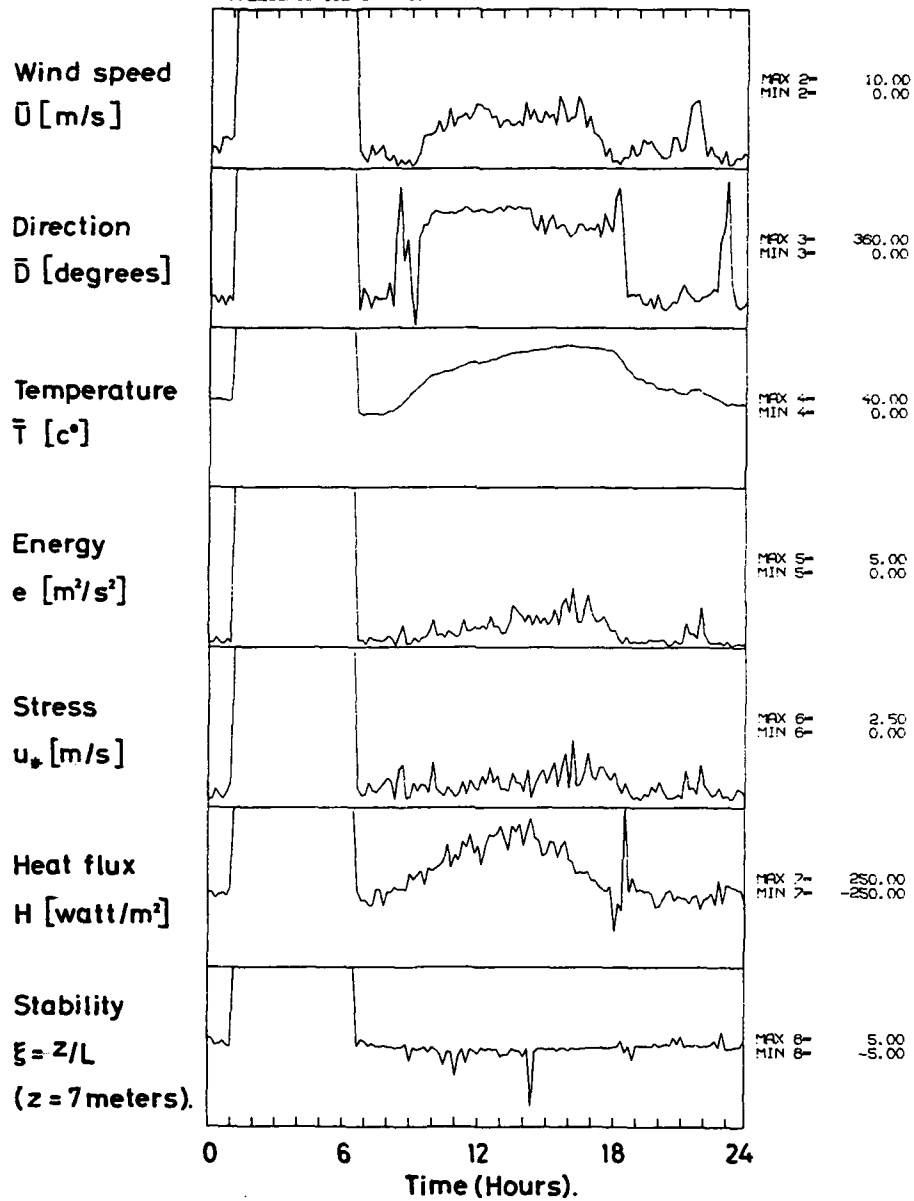
MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

SHADEUS/SONIC8 OCT. 1, 1987.



OMIDEUS/SONICB OCT. 2, 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 5.00
MIN 0.00

Stress
 u_* [m/s]

MAX 2.50
MIN 0.00

Heat flux
 H [watt/m²]

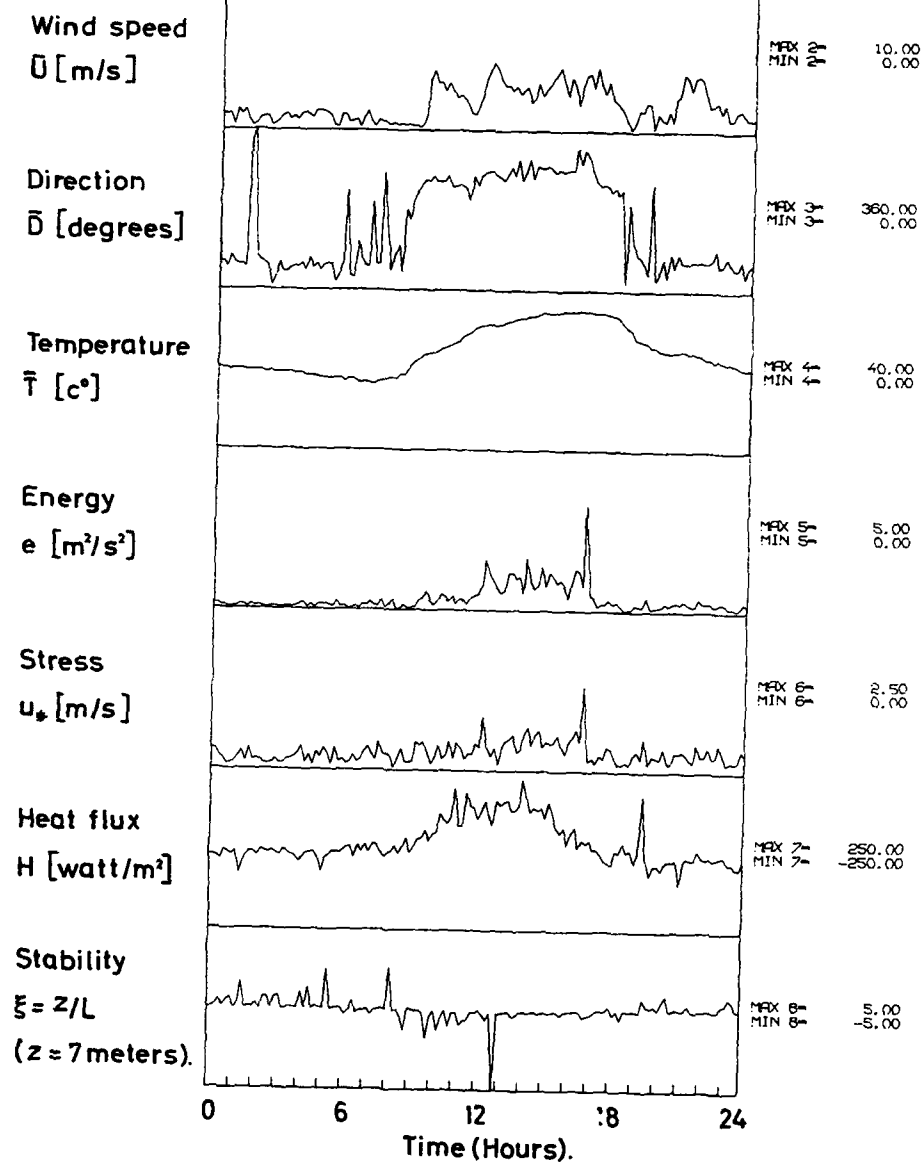
MAX 250.00
MIN -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 5.00
MIN -5.00

0 6 12 18 24
Time (Hours).

SHADEUS/SONICB OCT. 3, 1987.



RADEUS/SONIC8 OCT. 4, 1987.

Wind speed
 $\bar{U}$ [m/s]

MAX 10.00
MIN 0.00

Direction
 $\bar{D}$ [degrees]

MAX 360.00
MIN 0.00

Temperature
 $\bar{T}$ [c°]

MAX 40.00
MIN 0.00

Energy
 e [m²/s²]

MAX 0.00
MIN 0.00

Stress
 u_* [m/s]

MAX 0.00
MIN 0.00

Heat flux
 H [watt/m²]

MAX 200.00
MIN 0.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX 0.00
MIN 0.00

0 6 12 18 24
Time (Hours).

ATLAS/SONICB OCT. 5, 1967.

Wind speed
 $\bar{U}$ [m/s]

MAX $\bar{U}$ 10.00
MIN $\bar{U}$ 0.00

Direction
 $\bar{D}$ [degrees]

MAX $\bar{D}$ 360.00
MIN $\bar{D}$ 0.00

Temperature
 $\bar{T}$ [c°]

MAX $\bar{T}$ 40.00
MIN $\bar{T}$ 0.00

Energy
 e [m²/s²]

MAX e 5.00
MIN e 0.00

Stress
 u_* [m/s]

MAX u_* 2.50
MIN u_* 0.00

Heat flux
 H [watt/m²]

MAX H 250.00
MIN H -250.00

Stability
 $\xi = z/L$
($z = 7$ meters).

MAX ξ 5.00
MIN ξ -5.00

0 6
Time (Hours).

Appendix C

Listing of data from sonic A (corresponds to plots in Appendix A)

Table format:

0.	time group for start of the 10-min sampling period		(yymmddhhmm)
1.	mean wind speed	$\bar{u}$	[m/s]
2.	mean direction	$\bar{D}$	[degrees]
3.	mean temperature	$\bar{T}$	[°C]
4.	total energy	e	[m ² /s ²]
5.	stress	u_*	[m/s]
6.	total heat flux	H	[watt/m ²]
7.	stability parameter	$\xi \equiv \frac{z}{L}$	($z = 7.0$ m)

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709211115	2.86	265.00	34.00	0.38	0.24	126.67	-0.67
8709211125	2.86	266.00	34.60	0.43	0.29	209.61	-0.59
8709211135	2.94	261.00	34.90	0.42	0.30	131.97	-0.33
8709211145	2.09	285.00	35.70	1.47	0.28	190.20	-0.59
8709211155	2.19	280.00	36.40	0.72	0.20	203.14	-1.82
8709211205	2.27	271.00	37.00	0.62	0.27	207.02	-0.71
8709211215	2.83	288.00	37.70	0.96	0.49	285.95	-0.17
8709211225	3.01	309.00	37.90	0.80	0.25	169.50	-0.73
8709211235	3.30	274.00	38.40	1.27	0.53	160.44	-0.07
8709211245	3.51	259.00	39.00	0.98	0.21	172.08	-1.22
8709211255	3.59	261.00	39.40	1.29	0.50	188.91	-0.10
8709211305	4.01	244.00	39.50	1.02	0.16	166.91	-2.61
8709211315	2.78	258.00	40.20	2.13	0.41	129.39	-0.13
8709211325	4.21	271.00	40.40	1.68	0.31	147.50	-0.34
8709211335	4.75	264.00	40.90	1.63	0.54	166.91	-0.07
8709211345	3.73	281.00	41.10	2.14	0.85	231.60	-0.03
8709211355	3.55	297.00	41.30	1.64	0.73	256.19	-0.04
8709211405	4.18	276.00	41.70	2.19	0.72	182.44	-0.03
8709211415	4.37	287.00	41.40	1.64	0.68	133.27	-0.03
8709211425	4.35	287.00	41.80	1.54	0.29	150.09	-0.40
8709211435	4.42	276.00	42.20	2.45	1.07	174.67	-0.01
8709211445	4.20	278.00	41.90	2.02	0.78	115.54	-0.02
8709211455	5.33	275.00	42.20	2.20	1.00	205.73	-0.01
8709211505	5.26	269.00	42.10	1.99	0.68	75.95	-0.02
8709211515	*****						
8709211525	*****						
8709211535	*****						
8709211545	*****						
8709211555	*****						
8709211605	*****						
8709211615	*****						
8709211625	*****						
8709211635	*****						
8709211645	*****						
8709211655	*****						
8709211705	*****						
8709211715	*****						
8709211725	*****						
8709211735	*****						
8709211745	*****						
8709211755	*****						
8709211805	*****						
8709211815	*****						
8709211825	*****						
8709211835	*****						
8709211845	*****						
8709211855	*****						
8709211905	*****						
8709211915	*****						
8709211925	*****						
8709211935	*****						
8709211945	*****						
8709211955	*****						
8709212005	*****						
8709212015	*****						
8709212025	*****						
8709212035	*****						
8709212045	*****						
8709212055	*****						
8709212105	*****						
8709212115	*****						
8709212125	*****						

SCANSTART <U> DIR TEMP ENERGY U* HEAT Z/L

```

8709230555*****
8709230605*****
8709230615*****
8709230625*****
8709230635*****
8709230645*****
8709230655*****
8709230705*****
8709230715*****
8709230725*****
8709230735*****
8709230745*****
8709230755*****
8709230805*****
8709230815*****
8709230825*****
8709230835*****
8709230845*****
8709230855*****
8709230905*****
8709230915*****
8709230925*****
8709230935*****
8709230945*****
8709230955*****
8709231005*****
8709231015*****
8709231025*****
8709231035*****
8709231045*****
8709231055*****
8709231105*****
8709231115*****
8709231125*****
8709231135  2.48 267.00 29.90 0.41 0.24 100.02 -0.51
8709231145  2.97 275.00 30.50 0.74 0.41 194.08 -0.20
8709231155  3.37 283.00 30.50 0.70 0.28 207.02 -0.66
8709231205  2.88 293.00 30.60 0.99 0.79 191.49 -0.03
8709231215  2.95 283.00 31.20 0.91 0.44 163.03 -0.13
8709231225  2.38 309.00 31.30 0.90 0.59 213.49 -0.07
8709231235  2.45 285.00 31.50 1.02 0.48 142.33 -0.09
8709231245  2.01 300.00 32.00 0.95 0.44 210.90 -0.17
8709231255  1.89 264.00 32.10 1.12 0.59 214.78 -0.07
8709231305  2.51 265.00 32.40 1.28 0.49 194.08 -0.12
8709231315  2.38 266.00 32.60 1.04 0.67 188.91 -0.04
8709231325  2.39 276.00 32.90 1.01 0.42 256.19 -0.24
8709231335  2.32 287.00 33.20 2.06 0.66 203.14 -0.05
8709231345  2.29 268.00 33.20 1.34 0.82 275.59 -0.04
8709231355  2.57 275.00 33.40 1.63 0.83 263.95 -0.03
8709231405  3.06 275.00 33.70 1.57 0.94 260.07 -0.02
8709231415  2.98 298.00 33.80 0.77 0.51 192.79 -0.10
8709231425  3.08 273.00 34.10 0.79 0.16 172.08 -2.66
8709231435  3.21 282.00 34.30 1.13 0.57 148.80 -0.06
8709231445  1.84 240.00 34.60 2.86 1.46 163.03 0.00
8709231455  0.83 238.00 34.60 1.30 0.87 169.50 -0.02
8709231505  1.25 154.00 34.70 1.44 0.92 84.36 -0.01
8709231515  1.30 218.00 35.10 0.98 0.73 109.46 -0.02
8709231525  2.34 131.00 34.80 0.83 0.28 83.20 -0.27
8709231535*****
8709231545*****
8709231555*****
8709231605*****

```

SCANSTART <U> DIR TEMP ENERGY U* HEAT Z/L

8709251115*****
8709251125*****
8709251135*****
8709251145*****
8709251155*****
8709251205*****
8709251215*****
8709251225*****
8709251235*****
8709251245*****
8709251255*****
8709251305*****
8709251315*****
8709251325*****
8709251335*****
8709251345*****
8709251355*****
8709251405 2.15 225.00 28.90 1.59 0.78 271.71 -0.04
8709251415 1.80 239.00 28.90 0.72 0.41 123.44 -0.12
8709251425 1.38 260.00 29.20 0.75 0.50 156.56 -0.09
8709251435 2.78 275.00 29.50 1.28 0.62 183.73 -0.05
8709251445 1.38 259.00 29.50 0.38 0.30 131.97 -0.33
8709251455 2.17 253.00 29.90 0.85 0.45 177.26 -0.14
8709251505 1.34 248.00 30.20 0.95 0.53 213.49 -0.10
8709251515 1.30 320.00 30.30 1.33 0.59 152.68 -0.05
8709251525 2.69 344.00 30.30 0.54 0.30 137.15 -0.34
8709251535 1.54 319.00 30.80 1.48 0.32 261.36 -0.55
8709251545 3.44 275.00 30.50 0.71 0.44 151.38 -0.13
8709251555 1.71 258.00 30.60 0.74 0.43 138.44 -0.12
8709251605 1.16 212.00 30.90 0.64 0.27 150.09 -0.52
8709251615 0.43 225.00 30.80 0.72 0.57 106.74 -0.04
8709251625*****
8709251635*****
8709251645*****
8709251655*****
8709251705*****
8709251715*****
8709251725*****
8709251735*****
8709251745*****
8709251755*****
8709251805*****
8709251815*****
8709251825*****
8709251835*****
8709251845*****
8709251855*****
8709251905*****
8709251915*****
8709251925*****
8709251935*****
8709251945*****
8709251955*****
8709252005*****
8709252015*****
8709252025*****
8709252035*****
8709252045*****
8709252055*****
8709252105*****
8709252115*****
8709252125*****

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709260835	*****						
8709260845	*****						
8709260855	*****						
8709260905	*****						
8709260915	*****						
8709260925	*****						
8709260935	*****						
8709260945	2.40	288.00	22.50	0.53	0.43	60.16	-0.05
8709260955	1.90	303.00	23.10	0.58	0.26	57.97	-0.24
8709261005	1.95	300.00	23.90	0.65	0.47	129.39	-0.09
8709261015	4.18	298.00	24.90	1.13	0.33	141.03	-0.27
8709261025	3.38	321.00	25.40	0.89	0.45	157.85	-0.13
8709261035	3.88	309.00	25.80	1.34	0.71	151.38	-0.03
8709261045	3.84	314.00	26.10	1.30	0.69	138.44	-0.03
8709261055	4.23	309.00	26.70	1.44	0.71	212.19	-0.04
8709261105	3.48	306.00	27.10	1.91	0.84	229.01	-0.03
8709261115	4.51	313.00	27.20	1.62	0.84	178.55	-0.02
8709261125	3.25	307.00	27.60	1.29	0.69	241.95	-0.05
8709261135	3.41	309.00	27.80	3.94	1.52	226.43	0.00
8709261145	4.67	296.00	28.00	1.27	0.63	166.91	-0.05
8709261155	5.00	308.00	28.40	1.50	0.50	282.06	-0.16
8709261205	4.15	314.00	28.60	1.88	0.99	258.77	-0.02
8709261215	4.02	307.00	28.90	2.46	1.27	209.61	-0.01
8709261225	5.35	311.00	29.00	1.75	0.47	284.65	-0.19
8709261235	5.12	306.00	29.40	2.11	0.87	304.06	-0.03
8709261245	5.21	294.00	29.80	1.91	0.61	367.46	-0.11
8709261255	5.60	304.00	29.70	1.85	0.92	187.61	-0.02
8709261305	*****						
8709261315	*****						
8709261325	*****						
8709261335	*****						
8709261345	*****						
8709261355	*****						
8709261405	*****						
8709261415	*****						
8709261425	*****						
8709261435	*****						
8709261445	*****						
8709261455	*****						
8709261505	*****						
8709261515	*****						
8709261525	*****						
8709261535	*****						
8709261545	*****						
8709261555	*****						
8709261605	*****						
8709261615	*****						
8709261625	*****						
8709261635	*****						
8709261645	*****						
8709261655	*****						
8709261705	*****						
8709261715	*****						
8709261725	*****						
8709261735	*****						
8709261745	*****						
8709261755	*****						
8709261805	*****						
8709261815	*****						
8709261825	*****						
8709261835	*****						
8709261845	*****						

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709280315	*****						
8709280325	*****						
8709280335	*****						
8709280345	*****						
8709280355	*****						
8709280405	*****						
8709280415	*****						
8709280425	*****						
8709280435	*****						
8709280445	*****						
8709280455	*****						
8709280505	*****						
8709280515	*****						
8709280525	*****						
8709280535	*****						
8709280545	*****						
8709280555	*****						
8709280605	*****						
8709280615	*****						
8709280625	*****						
8709280635	*****						
8709280645	*****						
8709280655	*****						
8709280705	*****						
8709280715	*****						
8709280725	*****						
8709280735	*****						
8709280745	*****						
8709280755	*****						
8709280805	*****						
8709280815	*****						
8709280825	*****						
8709280835	*****						
8709280845	*****						
8709280855	*****						
8709280905	*****						
8709280915	*****						
8709280925	*****						
8709280935	*****						
8709280945	*****						
8709280955	*****						
8709281005	2.34	249.00	27.20	0.16	0.21	38.30	-0.31
8709281015	2.20	260.00	28.10	0.26	0.34	143.62	-0.26
8709281025	2.38	261.00	28.40	0.19	0.18	105.97	-1.38
8709281035	2.64	268.00	28.60	0.30	0.21	101.44	-0.80
8709281045	2.96	265.00	28.80	0.20	0.09	93.68	-10.28
8709281055	2.60	257.00	29.40	0.32	0.31	138.44	-0.32
8709281105	2.56	257.00	29.90	0.39	0.36	151.38	-0.23
8709281115	2.75	261.00	30.30	0.46	0.35	147.50	-0.25
8709281125	2.68	273.00	31.00	0.94	0.31	186.32	-0.42
8709281135	2.45	303.00	31.20	0.84	0.65	130.68	-0.03
8709281145	3.17	287.00	31.70	0.61	0.39	147.50	-0.18
8709281155	2.71	289.00	31.90	0.97	0.43	173.38	-0.16
8709281205	3.02	301.00	32.30	0.82	0.56	182.44	-0.07
8709281215	2.98	284.00	32.80	1.19	0.77	157.85	-0.02
8709281225	3.05	293.00	33.00	0.97	0.24	192.79	-0.91
8709281235	1.99	285.00	33.40	1.48	0.44	227.72	-0.19
8709281245	2.80	280.00	33.70	0.91	0.32	196.67	-0.42
8709281255	2.67	279.00	34.10	1.61	0.71	205.73	-0.04
8709281305	2.06	280.00	34.10	1.19	0.63	168.20	-0.05
8709281315	2.38	284.00	34.70	0.99	0.46	305.35	-0.21
8709281325	1.95	261.00	34.90	1.05	0.23	194.08	-1.16

59

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710010555	*****						
8710010605	*****						
8710010615	*****						
8710010625	*****						
8710010635	*****						
8710010645	*****						
8710010655	*****						
8710010705	*****						
8710010715	*****						
8710010725	*****						
8710010735	*****						
8710010745	*****						
8710010755	*****						
8710010805	*****						
8710010815	*****						
8710010825	*****						
8710010835	*****						
8710010845	*****						
8710010855	*****						
8710010905	*****						
8710010915	*****						
8710010925	*****						
8710010935	*****						
8710010945	*****						
8710010955	*****						
8710011005	*****						
8710011015	*****						
8710011025	*****						
8710011035	*****						
8710011045	*****						
8710011055	*****						
8710011105	*****						
8710011115	*****						
8710011125	*****						
8710011135	*****						
8710011145	*****						
8710011155	*****						
8710011205	*****						
8710011215	*****						
8710011225	*****						
8710011235	*****						
8710011245	2.39 294.00 35.20 0.67 0.29 200.55 -0.55						
8710011255	1.97 290.00 35.90 0.95 0.60 230.31 -0.07						
8710011305	2.86 287.00 36.10 0.62 0.40 137.15 -0.14						
8710011315	2.35 293.00 36.50 0.75 0.57 165.62 -0.06						
8710011325	2.91 299.00 36.80 0.97 0.59 129.39 -0.04						
8710011335	2.80 290.00 37.30 1.30 0.73 207.02 -0.04						
8710011345	3.12 309.00 37.10 0.94 0.41 139.74 -0.14						
8710011355	3.54 306.00 37.30 0.99 0.43 150.09 -0.13						
8710011405	3.71 305.00 37.50 1.01 0.50 187.61 -0.10						
8710011415	3.11 301.00 37.90 1.79 0.98 231.60 -0.02						
8710011425	2.44 270.00 38.00 1.08 0.43 163.03 -0.14						
8710011435	2.87 263.00 37.80 0.77 0.31 95.36 -0.21						
8710011445	*****						
8710011455	*****						
8710011505	*****						
8710011515	*****						
8710011525	*****						
8710011535	*****						
8710011545	*****						
8710011555	*****						
8710011605	*****						

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710020315	*****						
8710020325	*****						
8710020335	*****						
8710020345	*****						
8710020355	*****						
8710020405	*****						
8710020415	*****						
8710020425	*****						
8710020435	*****						
8710020445	*****						
8710020455	*****						
8710020505	*****						
8710020515	*****						
8710020525	*****						
8710020535	*****						
8710020545	*****						
8710020555	*****						
8710020605	*****						
8710020615	*****						
8710020625	*****						
8710020635	*****						
8710020645	*****						
8710020655	*****						
8710020705	*****						
8710020715	*****						
8710020725	*****						
8710020735	*****						
8710020745	*****						
8710020755	*****						
8710020805	*****						
8710020815	*****						
8710020825	*****						
8710020835	*****						
8710020845	*****						
8710020855	*****						
8710020905	*****						
8710020915	*****						
8710020925	*****						
8710020935	*****						
8710020945	*****						
8710020955	*****						
8710021005	*****						
8710021015	*****						
8710021025	*****						
8710021035	*****						
8710021045	*****						
8710021055	*****						
8710021105	*****						
8710021115	*****						
8710021125	*****						
8710021135	*****						
8710021145	*****						
8710021155	*****						
8710021205	2.97	281.00	32.90	0.58	0.26	156.56	-0.64
8710021215	1.80	270.00	33.20	0.77	0.39	135.86	-0.16
8710021225	2.09	275.00	33.80	0.64	0.20	179.85	-1.49
8710021235	2.23	281.00	34.10	1.08	0.70	205.73	-0.04
8710021245	2.19	254.00	34.40	0.60	0.48	197.96	-0.12

Appendix D

Listing of data from sonic B (corresponds to plots in Appendix B)

Table format:

0.	time grup for start of the 10-min sampling period		(yymmddhhmm)
1.	mean wind speed	$\bar{u}$	[m/s]
2.	mean direction	$\bar{D}$	[degrees]
3.	mean temperature	$\bar{T}$	[°C]
4.	total energy	e	[m ² /s ²]
5.	stress	u_*	[m/s]
6.	total heat flux	H	[watt/m ²]
7.	stability parameter	$\xi \equiv \frac{z}{L}$	($z = 7.0$ m)

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709201055	4.00	261.90	26.10	0.34	0.11	69.61	-4.26
8709201105	3.33	259.00	26.70	0.45	0.30	78.93	-0.21
8709201115	2.91	271.50	27.30	0.95	0.62	186.32	-0.05
8709201125	2.42	269.40	27.90	0.67	0.43	229.01	-0.20
8709201135	2.74	244.70	28.10	0.33	0.27	175.97	-0.60
8709201145	2.59	241.10	28.70	0.40	0.30	157.85	-0.41
8709201155	2.85	251.50	29.00	0.30	0.17	113.21	-1.54
8709201205	2.23	234.90	29.70	0.60	0.36	166.91	-0.25
8709201215	2.79	246.60	30.00	0.51	0.27	190.20	-0.68
8709201225	2.82	242.10	30.60	0.50	0.40	196.67	-0.21
8709201235	2.96	252.40	30.90	0.54	0.28	161.73	-0.50
8709201245	3.37	258.60	31.40	0.59	0.27	201.84	-0.70
8709201255	3.04	249.20	31.60	1.07	0.46	178.55	-0.13
8709201305	2.99	252.30	31.70	0.77	0.33	173.38	-0.34
8709201315	3.56	252.40	31.90	0.60	0.19	135.86	-1.36
8709201325	2.92	254.50	32.10	0.93	0.31	216.08	-0.50
8709201335	3.02	254.30	32.30	0.96	0.70	190.20	-0.04
8709201345	3.57	241.10	32.70	0.64	0.29	170.79	-0.48
8709201355	2.76	239.60	32.80	0.82	0.35	168.20	-0.26
8709201405	2.38	265.90	33.20	0.75	0.48	223.84	-0.14
8709201415	3.08	244.00	33.40	0.68	0.30	133.27	-0.34
8709201425	2.61	257.50	33.70	0.80	0.31	241.95	-0.55
8709201435	3.16	252.70	33.80	0.69	0.37	168.20	-0.23
8709201445	2.13	247.40	34.00	0.83	0.44	178.55	-0.14
8709201455	2.24	248.30	34.20	0.68	0.39	135.86	-0.16
8709201505	2.53	251.00	34.60	0.71	0.33	194.08	-0.38
8709201515	2.40	243.10	34.70	1.11	0.61	96.65	-0.03
8709201525	2.82	259.20	34.80	0.96	0.33	168.20	-0.31
8709201535	2.73	260.70	34.80	0.85	0.23	107.91	-0.61
8709201545	1.96	240.50	35.10	0.77	0.33	129.39	-0.26
8709201555	3.11	261.40	35.00	0.93	0.24	120.20	-0.63
8709201605	1.78	239.50	35.40	0.87	0.36	114.90	-0.17
8709201615	2.29	249.90	35.30	0.50	0.35	63.79	-0.11
8709201625	2.28	245.30	35.60	0.48	0.33	124.99	-0.25
8709201635	2.51	252.10	35.50	0.78	0.20	74.14	-0.66
8709201645	3.03	254.80	35.30	0.51	0.48	33.77	-0.02
8709201655	2.48	252.10	35.40	0.43	0.13	39.33	-1.15
8709201705	1.77	261.10	35.50	0.57	0.52	40.24	-0.02
8709201715	2.62	268.10	35.50	0.86	0.53	42.05	-0.02
8709201725	2.37	263.00	35.30	0.91	0.78	18.63	0.00
8709201735	3.00	256.90	35.10	0.18	0.08	3.13	-0.49
8709201745	2.44	254.00	34.90	0.12	0.19	-3.23	0.03
8709201755	2.92	266.70	34.70	0.13	0.23	-12.25	0.07
8709201805	3.08	262.10	34.30	0.10	0.16	-16.04	0.25
8709201815	2.38	252.70	33.80	0.06	0.14	0.15	0.00
8709201825	1.16	263.70	32.50	0.17	0.35	-61.72	0.10
8709201835	0.40	220.00	31.50	0.03	0.14	-15.66	0.38
8709201845	0.60	77.00	30.20	0.35	0.56	63.14	-0.02
8709201855	1.78	89.00	29.10	0.11	0.25	10.60	-0.05
8709201905	1.45	73.00	27.30	0.12	0.14	-23.55	0.60
8709201915	1.32	67.00	26.90	0.10	0.20	2.94	-0.03
8709201925	1.46	62.00	26.70	0.30	0.28	-46.19	0.16
8709201935	1.47	46.00	26.00	0.30	0.28	-94.06	0.29
8709201945	0.80	59.00	25.50	0.05	0.16	-12.29	0.23
8709201955	1.10	30.00	24.60	0.56	0.36	3.47	-0.01
8709202005	0.25	112.00	24.20	0.24	0.14	-30.02	0.71
8709202015	0.70	71.00	24.20	0.26	0.27	-14.49	0.05
8709202025	1.21	88.00	23.60	0.22	0.12	2.72	-0.10
8709202035	0.71	97.00	23.50	0.18	0.21	-42.70	0.33
8709202045	0.87	55.00	23.70	0.22	0.23	-24.84	0.15
8709202055	0.77	55.00	23.20	0.17	0.12	8.07	-0.31
8709202105	1.07	74.00	22.70	0.20	0.18	-29.76	0.35

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709202135	1.00	95.00	21.90	0.37	0.36	-72.20	0.11
8709202145	2.08	77.00	21.90	0.15	0.18	-9.25	0.11
8709202155	1.59	75.00	21.60	0.17	0.21	1.33	-0.01
8709202205	2.01	85.00	20.90	0.37	0.22	-37.65	0.27
8709202215	1.74	85.00	20.90	0.27	0.24	-65.21	0.32
8709202225	1.82	75.00	20.50	0.28	0.09	-20.57	1.94
8709202235	1.31	80.00	21.00	0.23	0.25	-18.24	0.08
8709202245	1.71	76.00	20.60	0.14	0.10	-22.64	1.46
8709202255	1.43	82.00	20.30	0.40	0.23	-44.51	0.28
8709202305	1.68	76.00	20.30	0.31	0.22	-39.59	0.25
8709202315	1.56	72.00	20.10	0.14	0.22	-25.10	0.16
8709202325	1.20	58.00	20.30	0.21	0.36	-7.25	0.01
8709202335	1.07	39.00	19.80	0.10	0.17	4.37	-0.06
8709202345	0.70	46.00	19.40	0.15	0.12	-50.72	2.00
8709202355	0.83	32.00	19.40	0.15	0.13	-7.30	0.24
8709210005	1.12	87.00	19.60	0.25	0.16	-22.13	0.42
8709210015	0.91	68.00	19.10	0.20	0.17	-23.29	0.33
8709210025	0.87	53.00	19.30	0.20	0.24	-41.02	0.21
8709210035	1.40	56.00	19.50	0.24	0.27	-21.35	0.08
8709210045	0.89	53.00	19.00	0.08	0.10	-16.82	1.29
8709210055	0.25	338.00	18.70	0.14	0.22	2.77	-0.02
8709210105	0.70	49.00	18.60	0.19	0.23	-50.85	0.32
8709210115	0.64	69.00	19.00	0.26	0.28	-15.91	0.06
8709210125	0.21	113.00	19.00	0.24	0.33	25.49	-0.05
8709210135	0.58	50.00	19.80	0.15	0.25	-30.15	0.13
8709210145	1.67	71.00	19.00	0.15	0.11	-24.32	1.25
8709210155	0.97	68.00	18.40	0.23	0.34	-12.94	0.02
8709210205	1.10	37.00	18.30	0.29	0.22	-0.22	0.00
8709210215	0.83	55.00	18.40	0.05	0.11	-15.53	0.86
8709210225	1.26	59.00	17.50	0.07	0.21	-19.41	0.14
8709210235	0.87	47.00	18.40	0.10	0.15	-65.21	1.39
8709210245	0.95	53.00	18.10	0.08	0.13	-13.59	0.45
8709210255	0.56	70.00	17.10	0.09	0.17	12.51	-0.17
8709210305	0.25	304.60	17.50	0.06	0.14	-5.99	0.18
8709210315	0.57	54.00	17.30	0.11	0.17	-16.17	0.23
8709210325	0.71	51.00	17.40	0.07	0.09	-18.24	1.66
8709210335	0.69	47.00	16.20	0.05	0.13	-7.54	0.26
8709210345	0.19	154.00	16.50	0.18	0.19	39.59	-0.45
8709210355	0.97	58.00	16.00	0.10	0.22	1.82	-0.01
8709210405	0.51	54.00	16.30	0.30	0.42	23.29	-0.02
8709210415	0.72	29.00	16.30	0.09	0.12	-4.50	0.20
8709210425	0.35	53.00	16.00	0.06	0.13	-26.78	0.84
8709210435	1.03	59.00	16.80	0.09	0.16	-19.15	0.32
8709210445	0.88	36.00	16.20	0.11	0.13	-1.33	0.05
8709210455	1.10	73.00	17.20	0.13	0.20	-3.35	0.03
8709210505	1.30	88.00	16.90	0.10	0.13	-46.06	1.44
8709210515	0.14	321.10	16.70	0.11	0.21	61.59	-0.48
8709210525	1.10	80.00	17.60	0.10	0.13	-8.50	0.25
8709210535	0.26	99.00	17.40	0.23	0.32	-143.62	0.32
8709210545	0.55	13.00	16.90	0.22	0.29	-9.42	0.03
8709210555	1.08	67.00	16.70	0.12	0.13	-5.38	0.17
8709210605	1.07	53.00	17.00	0.09	0.21	-27.43	0.22
8709210615	0.49	36.00	16.00	0.18	0.23	9.91	-0.06
8709210625	0.63	109.00	16.10	0.28	0.36	8.58	-0.01
8709210635	0.27	4.40	15.90	0.47	0.54	333.82	-0.16
8709210645	0.77	72.00	16.00	0.07	0.17	-8.22	0.13
8709210655	0.11	39.00	16.20	0.08	0.11	-31.96	1.57
8709210705	0.50	51.00	15.10	0.09	0.16	38.69	-0.67
8709210715	0.53	83.00	16.10	0.07	0.17	0.84	-0.01
8709210725	0.37	71.00	15.90	0.06	0.10	6.29	-0.47
8709210735	0.64	87.00	15.70	0.10	0.27	-1.44	0.01
8709210745	0.59	50.00	16.10	0.12	0.18	-22.38	0.29

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709210815	0.40	129.00	17.90	0.09	0.19	23.81	-0.27
8709210825	0.86	352.40	18.80	0.08	0.21	-21.74	0.16
8709210835	0.49	77.00	19.40	0.11	0.21	46.84	-0.36
8709210845	0.23	16.00	20.50	0.09	0.19	-14.62	0.15
8709210855	0.46	282.00	21.80	0.28	0.35	27.04	-0.04
8709210905	0.37	231.80	23.00	0.22	0.27	40.37	-0.15
8709210915	0.32	115.00	24.20	0.08	0.18	-13.46	0.15
8709210925	0.81	257.00	25.80	0.16	0.20	40.63	-0.35
8709210935	2.17	239.70	26.60	0.28	0.23	39.59	-0.24
8709210945	2.69	242.10	27.40	0.26	0.27	35.45	-0.12
8709210955	2.50	234.20	28.20	0.11	0.09	51.11	-4.44
8709211005	2.78	253.20	28.60	0.58	0.58	113.34	-0.04
8709211015	3.47	263.30	28.50	0.23	0.22	78.80	-0.54
8709211025	3.58	258.20	28.90	0.32	0.30	81.00	-0.21
8709211035	3.25	241.70	29.30	0.28	0.35	85.65	-0.15
8709211045	3.17	243.90	29.80	0.56	0.47	83.33	-0.06
8709211055	3.22	248.00	30.30	0.37	0.24	147.50	-0.73
8709211105	3.56	245.90	30.60	0.32	0.22	164.32	-1.08
8709211115	3.27	242.60	30.80	0.43	0.39	139.74	-0.16
8709211125	3.24	245.70	31.30	0.38	0.26	72.59	-0.28
8709211135	2.96	245.00	31.90	0.50	0.18	131.97	-1.71
8709211145	3.25	242.70	32.30	0.45	0.25	126.54	-0.55
8709211155	3.03	254.30	33.10	0.71	0.25	181.14	-0.82
8709211205	2.99	256.80	33.80	0.85	0.33	179.85	-0.33
8709211215	3.31	294.90	34.10	1.19	0.65	129.39	-0.03
8709211225	2.64	299.20	34.80	1.45	0.46	187.61	-0.13
8709211235	3.54	278.10	35.10	1.84	0.68	186.32	-0.04
8709211245	2.52	295.60	35.50	3.12	0.90	258.77	-0.02
8709211255	3.55	254.90	35.90	1.02	0.38	160.44	-0.20
8709211305	4.60	247.10	36.20	0.96	0.31	178.55	-0.42
8709211315	4.23	256.60	36.30	1.77	0.23	168.20	-0.97
8709211325	2.95	262.80	37.30	1.52	0.62	195.37	-0.06
8709211335	4.08	269.60	37.50	1.77	0.82	159.15	-0.02
8709211345	4.28	268.80	37.80	2.09	0.96	179.85	-0.01
8709211355	3.46	256.40	38.00	3.21	0.50	114.90	-0.06
8709211405	2.64	319.90	38.20	1.59	0.84	123.82	-0.01
8709211415	3.28	309.20	38.50	2.34	0.61	129.26	-0.04
8709211425	3.55	307.40	38.50	2.52	0.99	94.32	-0.01
8709211435	3.26	294.70	38.70	1.59	0.28	123.05	-0.38
8709211445	3.67	315.50	39.00	2.14	0.99	128.87	-0.01
8709211455	3.17	301.80	39.00	2.26	0.42	159.15	-0.14
8709211505	4.75	287.90	38.90	3.20	0.66	146.21	-0.03
8709211515	3.66	281.50	39.20	2.63	0.61	98.46	-0.03
8709211525	4.02	258.60	39.40	2.23	1.02	218.66	-0.01
8709211535	3.95	284.00	39.40	3.65	0.53	123.56	-0.06
8709211545	4.55	263.40	39.40	2.20	0.76	116.97	-0.02
8709211555	5.17	266.20	39.30	2.06	0.82	74.53	-0.01
8709211605	4.78	274.30	39.50	2.44	0.73	82.16	-0.01
8709211615	3.50	270.40	39.70	2.16	0.58	96.26	-0.03
8709211625	3.59	290.80	39.60	3.95	0.44	56.15	-0.04
8709211635	4.49	278.20	39.70	3.42	1.25	61.98	0.00
8709211645	4.22	278.60	39.70	2.28	0.41	34.55	-0.03
8709211655	3.81	272.00	39.60	1.70	0.73	18.50	0.00
8709211705	3.31	272.60	39.70	1.80	0.88	16.82	0.00
8709211715	5.01	268.90	39.30	2.92	1.22	30.15	0.00
8709211725	4.01	268.40	39.30	2.12	0.58	3.74	0.00
8709211735	4.16	256.10	39.00	1.91	0.77	-5.20	0.00
8709211745	4.81	261.00	38.80	1.18	0.36	-26.65	0.04
8709211755	4.58	254.50	38.50	0.86	0.46	-36.23	0.03
8709211805	3.73	250.30	38.30	0.52	0.26	-42.83	0.16
8709211815	2.68	244.20	38.00	0.37	0.22	-17.86	0.11
8709211825	2.40	246.40	37.60	0.13	0.19	-14.62	0.16

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709211855	1.32	76.00	32.50	0.12	0.25	29.37	-0.13
8709211905	1.53	49.00	31.50	0.13	0.12	-3.45	0.14
8709211915	1.40	49.00	30.50	0.15	0.27	28.59	-0.10
8709211925	0.83	44.00	30.10	0.12	0.26	-8.59	0.03
8709211935	1.47	26.00	29.10	0.14	0.17	-42.31	0.59
8709211945	1.33	38.00	29.10	0.05	0.09	-8.36	0.72
8709211955	1.57	54.00	28.30	0.06	0.10	-47.49	3.57
8709212005	1.44	61.00	28.50	0.26	0.25	-36.49	0.16
8709212015	0.98	52.00	28.00	0.34	0.47	-20.31	0.01
8709212025	0.30	233.90	27.30	0.42	0.42	-38.82	0.04
8709212035	1.37	61.00	27.90	0.19	0.15	-33.25	0.65
8709212045	0.97	99.00	26.40	0.53	0.32	-40.76	0.09
8709212055	3.09	54.00	27.80	0.55	0.55	-133.27	0.06
8709212105	2.28	48.00	28.00	0.62	0.61	-33.12	0.01
8709212115	2.75	53.00	27.90	0.47	0.39	-39.85	0.05
8709212125	2.95	65.00	27.30	0.25	0.26	-26.52	0.11
8709212135	2.95	63.00	26.80	0.41	0.28	-28.85	0.09
8709212145	3.32	77.00	27.00	0.58	0.31	-33.12	0.08
8709212155	0.22	204.10	25.60	0.34	0.36	30.41	-0.05
8709212205	0.62	72.00	25.00	0.78	0.68	-37.26	0.01
8709212215	1.00	76.00	24.90	0.37	0.40	-37.78	0.04
8709212225	2.22	45.00	25.10	0.29	0.33	-133.27	0.27
8709212235	1.81	41.00	24.70	0.39	0.28	-36.36	0.11
8709212245	2.51	51.00	25.10	0.36	0.28	-81.38	0.27
8709212255	2.94	78.00	25.10	0.49	0.46	-51.63	0.04
8709212305	0.70	62.00	24.10	0.42	0.33	-29.50	0.06
8709212315	0.39	75.00	25.60	0.15	0.22	-0.92	0.01
8709212325	0.33	248.00	24.70	0.11	0.23	-2.57	0.02
8709212335	0.59	43.00	24.40	0.24	0.24	1.16	-0.01
8709212345	0.82	48.00	24.00	0.55	0.43	-7.35	0.01
8709212355	0.45	133.00	24.30	0.25	0.35	-52.40	0.09
8709220005	0.52	9.70	21.80	0.33	0.50	26.01	-0.01
8709220015	0.55	236.30	22.60	0.14	0.24	-89.79	0.46
8709220025	0.30	60.00	22.30	0.09	0.19	46.97	-0.50
8709220035	1.41	41.00	22.80	0.44	0.35	-68.06	0.11
8709220045	1.27	69.00	23.40	0.46	0.32	-44.12	0.10
8709220055	1.70	68.00	24.10	0.20	0.19	-48.13	0.51
8709220105	1.49	69.00	23.20	0.28	0.39	-22.38	0.03
8709220115	1.75	68.00	22.70	0.28	0.22	-25.62	0.17
8709220125	0.35	125.00	22.40	0.39	0.36	-37.52	0.06
8709220135	1.25	85.00	21.70	0.28	0.39	23.94	-0.03
8709220145	0.80	63.00	21.90	0.30	0.26	-73.88	0.32
8709220155	1.17	55.00	21.60	0.15	0.20	-36.88	0.32
8709220205	1.61	66.00	21.50	0.28	0.17	4.96	-0.07
8709220215	1.00	67.00	22.00	0.33	0.31	-51.37	0.12
8709220225	1.63	52.00	21.40	0.24	0.20	-46.97	0.42
8709220235	0.48	2.50	21.00	0.18	0.27	-111.40	0.40
8709220245	0.73	203.50	20.70	0.33	0.33	14.10	-0.03
8709220255	1.05	55.00	20.10	0.44	0.28	-31.31	0.10
8709220305	0.37	186.30	20.10	0.51	0.59	6.02	0.00
8709220315	0.83	63.00	19.90	0.14	0.14	29.11	-0.82
8709220325	0.74	60.00	19.00	0.17	0.25	5.96	-0.03
8709220335	0.77	25.00	19.30	0.25	0.31	-35.58	0.09
8709220345	0.54	70.00	17.90	0.12	0.25	-8.62	0.04
8709220355	0.62	88.00	18.20	0.24	0.39	-159.15	0.20
8709220405	0.56	26.00	18.10	0.30	0.32	23.68	-0.05
8709220415	0.75	62.00	17.70	0.57	0.67	-47.10	0.01
8709220425	0.46	36.00	18.40	0.22	0.29	64.05	-0.18
8709220435	0.15	322.80	18.30	0.50	0.55	-156.56	0.07
8709220445	0.91	105.00	18.60	0.66	0.63	13.72	0.00
8709220455	0.84	41.00	17.20	0.32	0.16	-30.02	0.53
8709220505	1.09	68.00	17.40	0.61	0.66	-95.49	0.02

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709220535	1.09	59.00	17.10	0.28	0.42	-41.92	0.04
8709220545	0.26	69.00	17.50	0.12	0.30	-10.58	0.03
8709220555	0.97	65.00	17.10	0.13	0.27	-18.63	0.07
8709220605	0.28	1.80	17.20	0.19	0.31	30.92	-0.08
8709220615	0.66	71.00	16.90	0.08	0.15	1.69	-0.04
8709220625	0.92	40.00	16.70	0.44	0.31	10.52	-0.03
8709220635	0.67	51.00	16.60	0.10	0.18	-2.55	0.03
8709220645	1.01	19.00	16.80	0.07	0.13	-41.40	1.38
8709220655	0.47	44.00	17.10	0.08	0.19	-23.03	0.26
8709220705	0.81	79.00	16.20	0.26	0.25	16.30	-0.08
8709220715	0.33	276.80	16.70	0.10	0.23	-4.45	0.03
8709220725	0.50	7.20	16.70	0.18	0.24	-46.97	0.26
8709220735	0.44	340.20	17.00	0.19	0.32	-5.90	0.01
8709220745	0.30	228.90	17.20	0.12	0.32	-32.86	0.08
8709220755	0.39	298.10	18.40	0.06	0.14	-2.68	0.07
8709220805	0.45	190.60	18.70	0.07	0.16	5.54	-0.10
8709220815	0.32	56.00	18.80	0.08	0.17	-0.05	0.00
8709220825	0.62	344.20	19.90	0.23	0.25	8.14	-0.04
8709220835	0.50	185.40	20.40	0.10	0.29	-7.85	0.02
8709220845	1.28	280.40	21.30	0.32	0.23	25.62	-0.16
8709220855	0.29	151.00	22.30	0.10	0.14	41.66	-1.00
8709220905	0.43	332.10	23.30	0.11	0.19	22.77	-0.24
8709220915	0.31	348.30	24.20	0.25	0.27	118.39	-0.43
8709220925	2.07	227.90	25.20	0.18	0.17	74.14	-1.12
8709220935	2.05	239.80	26.10	0.14	0.21	29.63	-0.23
8709220945	2.74	254.60	26.50	0.36	0.41	28.34	-0.03
8709220955	2.36	252.70	27.20	0.22	0.07	71.68	-13.11
8709221005	2.47	264.60	27.40	0.43	0.40	65.60	-0.07
8709221015	2.65	266.80	28.00	0.45	0.23	58.74	-0.35
8709221025	2.91	266.90	28.30	0.85	0.28	88.24	-0.30
8709221035	3.21	275.50	28.60	0.44	0.27	76.47	-0.28
8709221045	2.90	306.60	28.80	0.61	0.31	127.96	-0.29
8709221055	3.14	273.60	28.80	0.94	0.64	91.35	-0.02
8709221105	2.88	269.80	29.20	0.48	0.43	138.44	-0.13
8709221115	3.05	268.00	29.50	0.64	0.50	146.21	-0.08
8709221125	3.38	265.50	29.60	0.53	0.16	107.91	-1.95
8709221135	3.54	269.60	29.70	0.80	0.34	98.08	-0.18
8709221145	2.88	270.30	30.30	0.71	0.35	161.73	-0.26
8709221155	2.95	262.70	30.50	0.42	0.20	185.02	-1.50
8709221205	2.93	260.10	30.80	0.54	0.51	152.68	-0.08
8709221215	2.93	274.00	31.40	0.51	0.35	169.50	-0.27
8709221225	2.54	265.60	31.70	0.56	0.28	143.62	-0.44
8709221235	3.04	262.50	31.80	0.82	0.29	147.50	-0.41
8709221245	3.24	268.10	32.20	0.50	0.25	134.56	-0.63
8709221255	2.58	271.40	32.50	0.67	0.40	221.25	-0.24
8709221305	2.35	257.00	32.80	1.21	0.28	235.48	-0.78
8709221315	2.40	265.30	33.20	0.60	0.36	192.79	-0.28
8709221325	2.57	249.90	33.30	0.59	0.48	144.91	-0.09
8709221335	3.12	247.80	33.50	0.46	0.36	114.25	-0.17
8709221345	2.25	231.30	34.10	0.86	0.53	232.90	-0.11
8709221355	2.61	246.00	34.30	0.43	0.28	232.90	-0.76
8709221405	2.51	252.10	34.60	0.51	0.35	244.54	-0.38
8709221415	1.91	253.20	34.80	0.81	0.49	107.00	-0.06
8709221425	2.38	264.70	35.10	0.60	0.14	179.85	-4.42
8709221435	1.72	277.80	35.20	0.52	0.27	119.94	-0.42
8709221445	2.37	284.80	35.50	1.00	0.56	165.62	-0.07
8709221455	2.03	254.20	35.70	1.24	0.59	112.18	-0.04
8709221505	2.62	256.90	36.00	1.05	0.48	172.08	-0.11
8709221515	2.50	231.10	36.10	0.57	0.29	164.32	-0.47
8709221525	2.10	251.20	36.00	1.32	0.65	86.69	-0.02
8709221535	2.86	246.70	36.30	1.15	0.41	166.91	-0.16
8709221545	2.90	241.90	36.20	0.61	0.13	70.52	-2.47

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709221615	2.57	221.30	36.30	1.65	0.31	72.97	-0.17
8709221625	2.82	243.70	36.40	0.43	0.23	68.32	-0.37
8709221635	3.98	249.60	36.20	0.62	0.37	64.69	-0.09
8709221645	4.71	234.40	36.00	0.81	0.40	63.27	-0.07
8709221655	4.42	239.50	35.80	0.41	0.23	40.63	-0.24
8709221705	3.81	222.70	35.80	0.93	0.41	39.20	-0.04
8709221715	4.54	229.20	35.50	1.04	0.70	12.94	0.00
8709221725	4.20	228.70	35.20	0.86	0.54	27.82	-0.01
8709221735	3.89	230.20	35.10	0.63	0.30	8.22	-0.02
8709221745	3.44	197.90	35.00	0.74	0.24	10.08	-0.05
8709221755	3.68	194.90	34.90	0.89	0.66	11.18	0.00
8709221805	3.74	204.90	34.60	0.43	0.24	-11.15	0.06
8709221815	2.09	187.40	34.20	0.44	0.24	-22.00	0.11
8709221825	1.92	186.90	33.90	0.23	0.19	-18.24	0.20
8709221835	1.17	183.00	33.20	0.45	0.33	-83.20	0.16
8709221845	0.61	96.00	32.20	0.49	0.05	-11.68	8.47
8709221855	1.22	349.80	31.60	0.33	0.35	22.00	-0.04
8709221905	1.11	16.00	31.40	0.13	0.13	1.00	-0.03
8709221915	1.28	55.00	29.30	0.17	0.27	-64.05	0.22
8709221925	1.00	50.00	28.20	0.26	0.32	-12.43	0.03
8709221935	1.44	18.00	27.70	0.70	0.48	-278.18	0.18
8709221945	1.39	78.00	27.60	0.84	0.62	-53.82	0.02
8709221955	1.56	76.00	27.70	0.85	0.51	-125.89	0.07
8709222005	1.81	46.00	28.80	1.00	0.68	-44.77	0.01
8709222015	2.10	70.00	28.10	0.32	0.34	-30.02	0.06
8709222025	2.80	65.00	28.50	0.40	0.35	-8.93	0.01
8709222035	3.37	74.00	27.60	0.48	0.29	-43.86	0.12
8709222045	3.90	80.00	26.90	0.41	0.43	-27.69	0.02
8709222055	4.36	73.00	26.20	0.29	0.14	-18.63	0.44
8709222105	3.13	72.00	25.40	0.35	0.46	-19.41	0.01
8709222115	2.79	51.00	25.00	0.54	0.42	-50.33	0.05
8709222125	1.79	67.00	24.00	0.48	0.37	-18.37	0.03
8709222135	2.36	47.00	23.80	0.83	0.33	-30.92	0.06
8709222145	0.70	91.00	23.20	0.73	0.76	-66.76	0.01
8709222155	0.69	31.00	22.50	0.26	0.31	-28.85	0.07
8709222205	1.44	52.00	22.20	0.32	0.30	-35.06	0.10
8709222215	1.29	62.00	21.60	0.12	0.18	-18.37	0.24
8709222225	1.49	54.00	21.30	0.22	0.19	-9.17	0.10
8709222235	1.47	49.00	20.90	0.11	0.02	0.29	-1.67
8709222245	0.40	53.00	20.50	0.10	0.27	-34.29	0.12
8709222255	0.83	45.00	20.30	0.17	0.21	-21.74	0.17
8709222305	0.33	44.00	20.30	0.09	0.15	-15.53	0.35
8709222315	0.11	266.20	19.80	0.10	0.09	25.36	-2.64
8709222325	0.27	309.60	19.90	0.11	0.19	3.60	-0.04
8709222335	0.37	121.00	20.10	0.10	0.19	-3.86	0.04
8709222345	1.03	47.00	19.80	0.05	0.06	-1.91	0.62
8709222355	0.12	227.50	19.20	0.11	0.22	40.24	-0.27
8709230005	0.66	46.00	19.70	0.08	0.16	-21.87	0.38
8709230015	1.08	53.00	19.90	0.07	0.11	-11.15	0.56
8709230025	0.83	42.00	19.70	0.11	0.14	-6.37	0.18
8709230035	0.75	47.00	19.10	0.19	0.30	-15.53	0.04
8709230045	0.57	31.00	18.70	0.11	0.24	-9.59	0.05
8709230055	0.91	54.00	18.50	0.15	0.27	-11.04	0.04
8709230105	0.51	49.00	18.50	0.12	0.08	-16.17	2.09
8709230115	0.90	19.00	18.30	0.14	0.23	-21.48	0.13
8709230125	0.45	39.00	17.50	0.19	0.27	-87.85	0.34
8709230135	0.21	23.00	17.70	0.09	0.23	-30.41	0.18
8709230145	0.52	19.00	17.50	0.17	0.17	-21.74	0.34
8709230155	0.24	56.00	17.20	0.08	0.23	-18.76	0.12
8709230205	0.42	83.00	16.80	0.06	0.14	8.32	-0.21
8709230215	0.97	50.00	17.10	0.17	0.19	4.41	-0.04
8709230225	0.75	35.00	16.90	0.08	0.13	-3.36	0.10

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709230255	0.29	131.00	17.00	0.06	0.19	12.33	-0.12
8709230305	0.63	39.00	16.30	0.06	0.14	-3.91	0.11
8709230315	0.65	30.00	16.00	0.09	0.20	-2.03	0.02
8709230325	0.24	32.00	16.10	0.07	0.17	24.71	-0.37
8709230335	0.45	354.30	16.10	0.07	0.19	1.15	-0.01
8709230345	0.46	49.00	15.10	0.07	0.13	18.89	-0.57
8709230355	0.20	51.00	15.30	0.06	0.21	26.14	-0.21
8709230405	0.15	326.70	15.40	0.07	0.12	-8.28	0.33
8709230415	0.18	98.00	15.50	0.02	0.09	-1.41	0.14
8709230425	0.79	52.00	15.10	0.06	0.09	0.19	-0.02
8709230435	0.73	29.00	14.80	0.04	0.06	-6.37	2.66
8709230445	0.23	351.50	14.50	0.06	0.17	-15.79	0.23
8709230455	0.21	196.70	14.90	0.04	0.12	-26.78	1.24
8709230505	0.82	75.00	14.50	0.06	0.16	2.16	-0.04
8709230515	0.87	65.00	13.90	0.09	0.06	-5.78	1.90
8709230525	0.22	265.70	14.20	0.11	0.25	-14.23	0.07
8709230535	0.86	39.00	13.80	0.11	0.19	6.62	-0.07
8709230545	0.16	7.40	13.90	0.12	0.25	-12.11	0.06
8709230555	1.04	47.00	13.50	0.07	0.10	-6.15	0.46
8709230605	0.25	57.00	13.60	0.07	0.17	-4.00	0.06
8709230615	0.86	47.00	13.50	0.10	0.19	0.99	-0.01
8709230625	0.86	57.00	14.20	0.07	0.14	-15.01	0.41
8709230635	0.43	76.00	14.00	0.06	0.12	10.13	-0.45
8709230645	0.53	40.00	13.00	0.12	0.22	17.60	-0.12
8709230655	0.17	359.80	13.90	0.12	0.20	-28.21	0.28
8709230705	0.70	34.00	13.70	0.14	0.26	-10.43	0.04
8709230715	0.62	69.00	13.30	0.05	0.13	-0.86	0.03
8709230725	0.65	47.00	13.70	0.05	0.17	0.85	-0.01
8709230735	0.23	339.50	14.00	0.05	0.20	33.77	-0.31
8709230745	0.29	0.10	14.50	0.10	0.22	-15.53	0.10
8709230755	0.56	45.00	14.20	0.08	0.22	-4.64	0.03
8709230805	0.40	188.20	15.00	0.02	0.09	-10.66	1.03
8709230815	0.30	66.00	15.70	0.02	0.08	6.37	-0.97
8709230825	0.31	293.40	16.40	0.02	0.04	9.45	-15.93
8709230835	0.53	315.40	17.30	0.04	0.16	-9.19	0.16
8709230845	0.37	27.00	18.40	0.05	0.13	27.04	-0.89
8709230855	0.54	255.10	19.00	0.06	0.12	4.96	-0.21
8709230905	0.80	247.30	19.90	0.05	0.05	2.15	-1.28
8709230915	0.33	298.10	21.00	0.13	0.27	39.46	-0.15
8709230925	0.27	225.60	22.00	0.13	0.22	35.19	-0.22
8709230935	1.46	240.20	22.80	0.30	0.32	42.18	-0.10
8709230945	2.86	250.90	23.30	0.33	0.42	51.37	-0.05
8709230955	2.31	254.60	23.70	0.28	0.11	70.77	-3.82
8709231005	2.54	240.70	24.10	0.16	0.18	72.07	-0.85
8709231015	2.00	249.60	24.50	0.40	0.36	126.41	-0.20
8709231025	1.85	258.90	25.00	0.24	0.22	107.00	-0.68
8709231035	2.19	259.40	25.20	0.33	0.21	93.42	-0.70
8709231045	2.27	273.70	25.80	0.32	0.15	120.46	-2.48
8709231055	2.51	275.20	26.00	0.43	0.14	111.53	-3.16
8709231105	3.28	263.20	25.90	0.30	0.17	92.25	-1.31
8709231115	3.06	258.30	26.30	0.36	0.25	131.97	-0.60
8709231125	2.43	264.50	26.90	0.48	0.26	164.32	-0.69
8709231135	3.23	266.70	27.20	0.50	0.24	138.44	-0.70
8709231145	3.20	269.80	27.30	0.48	0.18	117.10	-1.46
8709231155	3.83	266.20	27.70	0.67	0.23	191.49	-1.17
8709231205	4.00	261.60	27.60	0.72	0.38	170.79	-0.22
8709231215	3.91	256.80	27.80	0.56	0.15	143.62	-3.04
8709231225	3.72	257.80	28.10	0.52	0.29	181.14	-0.54
8709231235	3.21	269.00	28.20	0.66	0.38	142.33	-0.18
8709231245	3.09	260.60	28.60	0.78	0.30	197.96	-0.54
8709231255	2.81	273.30	28.60	1.27	0.86	119.81	-0.01
8709231305	2.47	272.60	29.20	1.15	0.74	173.38	-0.03

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709231335	2.73	276.20	29.70	1.13	0.76	151.38	-0.02
8709231345	3.10	267.00	30.10	1.45	0.46	236.78	-0.17
8709231355	3.08	268.00	30.10	1.29	0.72	147.50	-0.03
8709231405	2.90	276.40	30.50	1.23	0.70	173.38	-0.03
8709231415	3.87	264.60	30.60	1.07	0.42	150.09	-0.14
8709231425	2.69	302.50	30.80	1.28	0.32	161.73	-0.36
8709231435	3.58	276.70	31.00	0.91	0.59	200.55	-0.07
8709231445	2.22	249.00	31.30	1.93	0.66	261.36	-0.06
8709231455	2.33	250.50	31.30	1.06	0.63	127.83	-0.04
8709231505	1.64	230.30	31.20	1.95	0.49	92.51	-0.05
8709231515	2.91	235.10	31.80	0.92	0.40	216.08	-0.23
8709231525	3.04	218.60	31.70	1.32	0.23	174.67	-0.99
8709231535	2.91	220.10	31.80	1.30	0.37	146.21	-0.20
8709231545	3.15	218.20	31.90	1.18	0.64	141.03	-0.04
8709231555	2.05	180.30	32.00	1.37	0.46	144.91	-0.10
8709231605	3.48	193.50	32.00	0.99	0.49	127.58	-0.07
8709231615	3.03	194.60	32.00	0.93	0.23	108.94	-0.62
8709231625	2.42	201.30	32.10	1.63	0.44	75.69	-0.06
8709231635	3.81	223.80	31.90	1.15	0.64	53.31	-0.01
8709231645	4.48	234.50	31.80	1.02	0.28	76.73	-0.24
8709231655	3.12	220.60	31.60	1.14	0.15	19.93	-0.38
8709231705	4.36	222.70	31.40	0.81	0.35	42.18	-0.07
8709231715	3.77	212.00	31.20	1.15	0.35	34.16	-0.06
8709231725	3.99	191.20	31.00	1.11	0.25	26.65	-0.11
8709231735	2.84	195.20	30.80	1.23	0.51	11.35	-0.01
8709231745	3.40	186.10	30.30	1.01	0.68	10.29	0.00
8709231755	4.02	200.80	30.00	1.24	0.47	9.94	-0.01
8709231805	4.14	205.20	29.70	1.18	0.37	-8.02	0.01
8709231815	1.73	191.00	29.30	0.74	0.41	-22.77	0.02
8709231825	0.50	242.10	29.00	0.31	0.23	-15.40	0.09
8709231835	0.75	159.00	28.70	0.57	0.34	-27.30	0.05
8709231845	0.69	341.70	28.10	0.34	0.30	-11.31	0.03
8709231855	1.41	72.00	27.90	0.53	0.35	-27.56	0.05
8709231905	1.47	79.00	26.80	0.30	0.20	-5.21	0.05
8709231915	1.25	76.00	26.00	0.14	0.12	-24.20	0.91
8709231925	1.43	96.00	26.50	0.11	0.05	-2.96	1.35
8709231935	1.30	82.00	26.30	0.27	0.19	-22.77	0.25
8709231945	1.22	70.00	25.00	0.30	0.40	8.84	-0.01
8709231955	1.46	87.00	24.90	0.14	0.22	22.51	-0.15
8709232005	1.39	66.00	23.20	0.30	0.25	-33.51	0.16
8709232015	1.01	81.00	22.40	0.30	0.31	-110.37	0.28
8709232025	0.34	5.40	22.80	0.22	0.36	32.61	-0.05
8709232035	2.09	62.00	23.00	0.23	0.08	-16.43	2.43
8709232045	2.00	50.00	22.80	0.15	0.15	-0.90	0.02
8709232055	1.79	66.00	22.00	0.16	0.16	-23.03	0.37
8709232105	2.42	69.00	22.10	0.46	0.46	-27.56	0.02
8709232115	2.29	64.00	22.10	0.29	0.39	-38.30	0.05
8709232125	3.22	78.00	21.80	0.24	0.23	-32.35	0.19
8709232135	3.59	72.00	21.70	0.13	0.15	-9.52	0.22
8709232145	2.85	62.00	21.70	0.24	0.35	-15.66	0.03
8709232155	2.28	56.00	21.40	0.18	0.31	-12.64	0.03
8709232205	2.31	53.00	21.20	0.20	0.29	-21.09	0.06
8709232215	0.28	54.00	20.60	0.34	0.52	-212.19	0.11
8709232225	0.19	15.00	20.20	0.12	0.29	-3.86	0.01
8709232235	1.64	52.00	20.20	0.21	0.28	2.43	-0.01
8709232245	0.22	9.70	19.80	0.07	0.18	-26.39	0.35
8709232255	0.18	328.40	19.50	0.06	0.12	8.95	-0.36
8709232305	0.26	26.00	18.70	0.07	0.18	-15.53	0.21
8709232315	0.40	356.20	18.60	0.05	0.18	-2.04	0.03
8709232325	0.49	85.00	18.40	0.10	0.21	0.93	-0.01
8709232335	0.45	55.00	18.50	0.05	0.12	-15.14	0.61
8709232345	1.39	47.00	18.20	0.14	0.11	-5.78	0.33

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709240015	0.53	88.00	17.60	0.09	0.15	5.38	-0.12
8709240025	1.00	26.00	17.10	0.10	0.14	-5.77	0.15
8709240035	0.23	84.00	17.00	0.10	0.26	11.30	-0.05
8709240045	0.82	54.00	17.10	0.14	0.20	-13.46	0.12
8709240055	0.91	44.00	17.30	0.07	0.12	-14.23	0.60
8709240105	0.47	37.00	17.50	0.21	0.37	-75.69	0.11
8709240115	0.35	289.40	17.00	0.09	0.08	7.87	-1.04
8709240125	0.54	50.00	17.40	0.09	0.13	-14.62	0.53
8709240135	0.63	108.00	17.70	0.25	0.20	-7.35	0.07
8709240145	0.60	38.00	17.40	0.04	0.06	-5.68	2.10
8709240155	0.26	49.00	17.70	0.12	0.29	-43.73	0.13
8709240205	0.46	89.00	17.80	0.15	0.31	-9.76	0.02
8709240215	0.86	25.00	17.40	0.06	0.09	-10.48	1.18
8709240225	0.42	198.60	17.30	0.08	0.18	-0.52	0.01
8709240235	0.47	118.00	17.60	0.13	0.34	-7.76	0.01
8709240245	0.29	351.90	16.90	0.02	0.03	4.70	-16.54
8709240255	0.33	21.00	17.00	0.11	0.14	-3.09	0.07
8709240305	1.22	70.00	17.00	0.04	0.16	1.45	-0.03
8709240315	0.70	35.00	17.00	0.07	0.16	-15.01	0.26
8709240325	0.15	66.00	17.10	0.03	0.11	-12.69	0.77
8709240335	0.31	19.00	16.60	0.04	0.15	9.24	-0.22
8709240345	0.75	38.00	17.10	0.11	0.25	-17.21	0.08
8709240355	0.35	50.00	17.10	0.06	0.14	5.56	-0.16
8709240405	0.25	17.00	16.70	0.12	0.31	-46.58	0.11
8709240415	0.18	70.00	16.60	0.04	0.13	-13.59	0.49
8709240425	0.78	53.00	16.50	0.10	0.15	-3.40	0.08
8709240435	0.58	97.00	16.30	0.09	0.26	-6.21	0.03
8709240445	0.35	258.90	16.20	0.14	0.15	-0.12	0.00
8709240455	0.77	21.00	16.00	0.08	0.19	-1.60	0.02
8709240505	0.82	48.00	16.00	0.13	0.28	-8.46	0.03
8709240515	0.36	172.90	15.80	0.04	0.04	0.96	-1.16
8709240525	0.42	32.00	15.10	0.04	0.11	7.48	-0.39
8709240535	0.70	50.00	15.00	0.14	0.31	-6.75	0.02
8709240545	0.19	34.00	15.00	0.12	0.31	-17.21	0.04
8709240555	0.32	297.50	15.00	0.08	0.24	-88.11	0.46
8709240605	0.26	113.00	15.10	0.05	0.12	10.04	-0.46
8709240615	0.34	45.00	14.90	0.03	0.10	-15.79	1.29
8709240625	0.19	356.70	14.60	0.04	0.15	-16.30	0.34
8709240635	0.28	70.00	14.30	0.02	0.13	-13.97	0.46
8709240645	0.53	63.00	14.70	0.04	0.14	11.06	-0.30
8709240655	0.61	57.00	14.40	0.02	0.07	18.37	-4.86
8709240705	0.66	72.00	14.00	0.05	0.21	-5.45	0.04
8709240715	0.98	46.00	14.40	0.06	0.12	-4.57	0.20
8709240725	0.24	50.00	13.70	0.06	0.14	14.88	-0.39
8709240735	0.67	32.00	14.40	0.08	0.14	-6.86	0.19
8709240745	1.13	40.00	14.90	0.10	0.10	-6.91	0.48
8709240755	0.27	203.10	15.10	0.21	0.36	-9.50	0.01
8709240805	0.37	288.70	15.70	0.28	0.42	2.06	0.00
8709240815	0.34	277.00	16.70	0.34	0.36	69.74	-0.11
8709240825	0.62	260.10	17.40	0.13	0.26	10.86	-0.05
8709240835	1.15	242.70	18.00	0.08	0.18	11.41	-0.14
8709240845	1.60	235.90	18.50	0.19	0.34	1.67	0.00
8709240855	2.13	265.40	19.50	0.41	0.25	27.95	-0.13
8709240905	3.27	271.80	19.40	0.40	0.30	65.99	-0.19
8709240915	3.47	260.10	19.20	0.47	0.25	63.66	-0.29
8709240925	2.23	261.40	19.90	0.40	0.28	103.77	-0.35
8709240935	3.02	280.30	20.00	0.91	0.24	99.11	-0.52
8709240945	3.44	284.70	19.90	0.37	0.32	55.51	-0.12
8709240955	2.48	265.30	20.10	0.43	0.29	92.38	-0.28
8709241005	1.50	267.60	20.60	0.32	0.25	134.56	-0.66
8709241015	*****						
8709241025	*****						

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709241055	*****						
8709241105	*****						
8709241115	*****						
8709241125	*****						
8709241135	*****						
8709241145	2.54	259.00	23.80	0.64	0.39	135.86	-0.16
8709241155	3.22	270.10	23.90	0.80	0.55	99.63	-0.04
8709241205	4.66	260.70	24.00	0.62	0.20	112.18	-1.00
8709241215	4.35	261.90	24.00	0.77	0.50	99.89	-0.06
8709241225	4.15	263.90	24.10	0.57	0.34	165.62	-0.30
8709241235	3.82	258.90	24.20	0.62	0.22	134.56	-0.95
8709241245	3.70	264.20	24.10	0.97	0.25	182.44	-0.88
8709241255	3.22	266.60	24.10	0.93	0.37	146.21	-0.20
8709241305	3.10	258.60	24.10	0.62	0.13	84.49	-2.75
8709241315	3.08	257.00	24.40	0.75	0.30	150.09	-0.40
8709241325	2.63	274.40	24.60	0.94	0.50	101.57	-0.06
8709241335	4.44	269.40	24.60	0.72	0.31	116.45	-0.29
8709241345	4.33	294.20	24.70	1.39	0.37	112.44	-0.15
8709241355	4.34	258.70	24.60	1.65	0.61	99.24	-0.03
8709241405	3.66	254.60	24.40	0.86	0.38	118.52	-0.16
8709241415	3.87	258.20	24.10	1.37	0.69	84.23	-0.02
8709241425	3.60	253.30	24.20	0.67	0.35	137.15	-0.22
8709241435	2.86	248.40	24.30	1.27	0.80	101.83	-0.01
8709241445	3.23	205.30	24.20	0.70	0.15	92.90	-2.10
8709241455	3.19	242.70	24.20	0.91	0.63	60.55	-0.02
8709241505	2.71	246.90	24.30	0.68	0.47	80.35	-0.06
8709241515	2.53	228.70	24.70	1.42	0.92	75.69	-0.01
8709241525	3.52	243.40	24.40	0.82	0.43	51.88	-0.05
8709241535	3.81	244.20	24.40	0.60	0.33	79.31	-0.16
8709241545	4.34	228.60	24.30	0.70	0.17	38.30	-0.52
8709241555	3.43	228.60	24.50	0.98	0.72	98.72	-0.02
8709241605	3.63	243.80	24.50	0.77	0.46	64.43	-0.05
8709241615	2.47	229.80	24.60	0.71	0.44	83.33	-0.07
8709241625	2.17	202.20	24.50	0.98	0.63	71.29	-0.02
8709241635	1.66	231.10	24.60	0.68	0.31	49.17	-0.12
8709241645	1.39	241.30	24.90	1.26	0.90	63.92	-0.01
8709241655	1.13	165.00	25.00	0.95	0.49	68.45	-0.04
8709241705	1.33	147.00	25.10	1.43	0.66	22.90	-0.01
8709241715	1.16	216.60	25.00	1.32	0.73	17.73	0.00
8709241725	1.18	189.50	25.00	0.71	0.48	30.02	-0.02
8709241735	1.63	196.70	25.10	1.09	0.66	40.24	-0.01
8709241745	1.59	196.80	25.20	0.84	0.29	17.47	-0.05
8709241755	1.46	250.70	25.00	0.58	0.29	6.57	-0.02
8709241805	1.59	282.80	24.80	0.64	0.66	2.26	0.00
8709241815	1.25	243.20	24.80	0.44	0.46	-0.95	0.00
8709241825	1.06	191.90	24.60	0.86	0.47	-0.40	0.00
8709241835	0.96	103.00	24.40	0.78	0.50	-6.55	0.00
8709241845	1.81	192.80	24.30	0.90	0.68	-8.45	0.00
8709241855	0.54	141.00	24.10	0.57	0.47	3.45	0.00
8709241905	1.57	100.00	23.80	0.58	0.41	-4.80	0.01
8709241915	0.90	64.00	23.50	0.35	0.34	-13.20	0.02
8709241925	1.15	26.00	23.10	0.22	0.18	-3.44	0.04
8709241935	1.81	44.00	22.90	0.27	0.22	-8.79	0.06
8709241945	1.59	78.00	22.50	0.26	0.34	-27.95	0.05
8709241955	1.06	82.00	22.00	0.12	0.19	-2.91	0.03
8709242005	1.01	102.00	21.30	0.19	0.29	-51.24	0.16
8709242015	0.83	56.00	19.80	0.40	0.42	-11.36	0.01
8709242025	0.98	55.00	19.90	0.12	0.07	-3.80	0.84
8709242035	0.92	87.00	19.30	0.11	0.13	3.79	-0.14
8709242045	1.59	70.00	19.40	0.06	0.11	0.85	-0.04
8709242055	1.15	72.00	19.10	0.09	0.13	-38.04	1.39
8709242105	*****						

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709242135	0.36	68.00	18.00	0.17	0.28	11.52	-0.04
8709242145	0.91	65.00	17.60	0.22	0.40	-5.93	0.01
8709242155	1.16	77.00	16.80	0.21	0.32	-23.55	0.05
8709242205	1.04	31.00	17.20	0.13	0.24	-10.66	0.05
8709242215	0.63	190.30	17.10	0.11	0.20	-4.11	0.04
8709242225	0.52	19.00	16.30	0.06	0.11	18.63	-1.07
8709242235	0.54	55.00	16.20	0.19	0.30	0.15	0.00
8709242245	0.47	38.00	15.60	0.11	0.27	-14.88	0.06
8709242255	0.42	327.10	15.90	0.23	0.30	-40.76	0.12
8709242305	0.32	54.00	15.90	0.07	0.20	-5.42	0.05
8709242315	0.75	42.00	15.70	0.05	0.11	-5.71	0.36
8709242325	0.71	66.00	15.70	0.03	0.12	1.24	-0.06
8709242335	0.73	53.00	15.60	0.04	0.06	-2.60	1.14
8709242345	0.86	49.00	15.50	0.09	0.15	-2.41	0.05
8709242355	0.37	323.70	15.40	0.20	0.26	-31.18	0.13
8709250005	0.20	248.30	15.40	0.09	0.20	-0.36	0.00
8709250015	0.45	351.80	15.50	0.08	0.22	-16.95	0.12
8709250025	0.65	47.00	15.50	0.08	0.21	-6.34	0.05
8709250035	0.63	36.00	15.60	0.04	0.16	-8.35	0.14
8709250045	0.19	195.30	15.50	0.05	0.18	29.63	-0.37
8709250055	0.28	25.00	15.50	0.11	0.31	-37.65	0.09
8709250105	0.52	71.00	15.70	0.09	0.12	-10.03	0.42
8709250115	0.58	47.00	15.90	0.03	0.09	-3.78	0.39
8709250125	0.12	284.50	15.90	0.03	0.13	15.40	-0.52
8709250135	0.39	214.20	15.80	0.02	0.06	-0.94	0.38
8709250145	0.12	219.60	16.00	0.01	0.07	-1.79	0.46
8709250155	0.17	188.60	16.10	0.02	0.06	-0.15	0.05
8709250205	0.23	32.00	15.90	0.03	0.10	-6.79	0.49
8709250215	0.09	358.70	15.90	0.01	0.06	5.47	-1.92
8709250225	0.23	350.10	15.80	0.02	0.06	2.20	-0.72
8709250235	0.56	45.00	15.70	0.02	0.07	-6.62	1.35
8709250245	0.55	357.00	15.70	0.02	0.02	-3.08	65.62
8709250255	0.72	35.00	15.00	0.15	0.32	-21.48	0.05
8709250305	0.68	35.00	14.90	0.12	0.29	-27.30	0.08
8709250315	0.81	57.00	14.70	0.03	0.09	-3.13	0.34
8709250325	0.19	15.00	14.30	0.07	0.20	-27.69	0.27
8709250335	0.39	253.60	14.40	0.01	0.04	0.58	-0.66
8709250345	0.28	319.20	14.20	0.07	0.12	-10.42	0.43
8709250355	0.34	258.80	14.00	0.04	0.14	5.76	-0.17
8709250405	0.17	286.10	13.90	0.04	0.13	3.71	-0.11
8709250415	0.67	0.70	14.10	0.21	0.43	-14.36	0.01
8709250425	0.28	353.90	13.50	0.10	0.20	-33.51	0.30
8709250435	0.26	338.20	13.50	0.03	0.13	-6.06	0.21
8709250445	0.22	248.50	13.40	0.01	0.06	-6.94	3.07
8709250455	0.27	341.30	13.20	0.01	0.09	0.84	-0.10
8709250505	0.26	237.90	13.20	0.01	0.08	-2.99	0.51
8709250515	0.40	47.00	12.70	0.11	0.23	28.72	-0.17
8709250525	0.72	56.00	12.60	0.05	0.12	-0.46	0.02
8709250535	0.16	359.70	12.40	0.09	0.16	4.15	-0.08
8709250545	0.40	26.00	12.10	0.03	0.07	2.29	-0.49
8709250555	0.10	255.60	12.30	0.06	0.13	6.77	-0.21
8709250605	0.35	61.00	12.40	0.05	0.17	22.25	-0.33
8709250615	0.52	51.00	11.90	0.05	0.14	0.71	-0.02
8709250625	0.73	44.00	11.90	0.04	0.14	-14.75	0.45
8709250635	0.86	47.00	11.90	0.09	0.16	-12.77	0.22
8709250645	0.86	30.00	11.80	0.07	0.11	-9.03	0.46
8709250655	0.62	63.00	12.30	0.07	0.20	-5.60	0.05
8709250705	0.14	23.00	12.70	0.03	0.14	-18.37	0.46
8709250715	0.20	149.00	13.00	0.02	0.06	2.70	-1.12
8709250725	0.55	196.80	13.30	0.03	0.13	0.67	-0.02
8709250735	0.71	228.20	13.60	0.03	0.07	5.02	-1.35
8709250745	0.70	247.40	13.60	0.05	0.19	-0.71	0.01

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709250815	0.33	8.70	14.30	0.03	0.11	-2.91	0.18
8709250825	0.26	111.00	14.90	0.04	0.08	12.69	-1.66
8709250835	0.14	298.60	16.00	0.03	0.08	8.95	-1.23
8709250845	0.59	255.60	16.60	0.11	0.09	41.53	-4.73
8709250855	1.53	222.70	17.30	0.20	0.10	37.39	-2.41
8709250905	*****						
8709250915	2.35	232.10	18.40	0.66	0.43	53.82	-0.05
8709250925	3.00	260.20	18.70	0.33	0.18	43.09	-0.58
8709250935	2.80	260.00	18.80	0.32	0.25	74.14	-0.36
8709250945	3.24	256.80	19.10	0.69	0.11	55.51	-3.18
8709250955	3.24	266.30	19.30	0.93	0.61	82.81	-0.03
8709251005	3.40	256.10	19.50	0.51	0.26	113.99	-0.50
8709251015	3.11	253.00	19.60	0.44	0.43	121.75	-0.11
8709251025	2.80	256.60	19.80	0.73	0.20	152.68	-1.41
8709251035	3.10	248.90	20.00	0.51	0.33	147.50	-0.30
8709251045	3.40	256.10	20.30	0.87	0.44	245.84	-0.22
8709251055	3.54	263.70	20.50	0.59	0.21	169.50	-1.41
8709251105	3.21	252.70	20.70	0.66	0.49	143.62	-0.09
8709251115	2.66	251.00	21.00	1.15	0.51	155.26	-0.08
8709251125	3.10	252.80	21.60	0.63	0.31	213.49	-0.52
8709251135	3.08	244.40	21.80	0.77	0.67	225.13	-0.05
8709251145	3.25	262.60	22.20	1.09	0.29	221.25	-0.64
8709251155	2.89	261.00	22.30	0.74	0.29	187.61	-0.58
8709251205	3.63	255.30	22.70	0.85	0.09	178.55	-16.46
8709251215	3.39	246.90	23.00	1.04	0.30	179.85	-0.50
8709251225	2.05	277.30	23.40	1.79	0.65	144.91	-0.04
8709251235	3.39	266.80	23.70	1.59	0.78	192.79	-0.03
8709251245	2.28	275.60	24.40	1.62	0.98	296.30	-0.02
8709251255	2.69	265.90	24.50	1.41	0.58	328.64	-0.12
8709251305	3.16	267.80	24.90	2.19	0.43	315.70	-0.29
8709251315	1.76	241.80	25.20	1.18	0.78	274.30	-0.04
8709251325	2.28	306.40	25.00	2.91	0.53	196.67	-0.09
8709251335	1.10	272.40	25.20	2.02	1.11	166.91	-0.01
8709251345	2.59	247.40	25.30	1.32	0.68	161.73	-0.04
8709251355	3.24	245.10	25.40	0.58	0.24	155.26	-0.81
8709251405	1.35	225.90	25.70	1.36	0.97	168.20	-0.01
8709251415	2.21	250.10	25.90	1.27	0.92	190.20	-0.02
8709251425	2.29	258.10	26.00	1.84	0.94	135.86	-0.01
8709251435	1.37	255.10	26.20	0.91	0.15	172.08	-3.99
8709251445	2.29	258.80	26.50	0.80	0.32	194.08	-0.41
8709251455	1.08	225.90	26.60	1.37	0.36	168.20	-0.25
8709251505	1.80	233.40	26.90	0.79	0.52	227.72	-0.12
8709251515	1.80	231.90	26.80	1.35	0.38	177.26	-0.22
8709251525	2.03	261.00	27.10	0.69	0.13	142.33	-4.39
8709251535	1.89	254.70	27.10	1.46	0.32	97.95	-0.21
8709251545	2.19	296.50	27.10	0.49	0.19	109.07	-1.08
8709251555	2.38	270.40	27.30	0.98	0.67	134.56	-0.03
8709251605	2.83	251.20	27.50	1.33	0.37	187.61	-0.27
8709251615	1.90	213.50	27.60	0.65	0.29	110.76	-0.31
8709251625	1.25	237.30	27.60	0.46	0.07	47.10	-8.65
8709251635	1.15	207.20	27.70	0.37	0.30	104.29	-0.27
8709251645	0.81	170.00	27.90	0.76	0.35	75.69	-0.12
8709251655	0.86	236.60	27.80	0.61	0.33	75.43	-0.15
8709251705	1.20	282.10	27.90	0.33	0.34	45.54	-0.09
8709251715	1.16	262.20	28.00	0.23	0.13	43.09	-1.24
8709251725	1.26	275.60	27.90	0.43	0.25	36.75	-0.16
8709251735	1.20	245.70	28.00	0.08	0.10	18.89	-1.43
8709251745	1.54	263.50	28.00	0.09	0.14	14.49	-0.37
8709251755	1.56	291.90	27.60	0.10	0.24	-6.02	0.03
8709251805	1.86	259.90	27.40	0.04	0.08	-4.50	0.55
8709251815	1.43	254.60	26.50	0.05	0.12	1.72	-0.08
8709251825	0.98	254.20	26.00	0.05	0.15	-11.96	0.24

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709251855	1.09	87.00	23.30	0.24	0.32	47.74	-0.11
8709251905	1.08	80.00	22.30	0.09	0.10	-4.74	0.31
8709251915	0.62	66.00	21.60	0.33	0.46	39.46	-0.03
8709251925	0.93	38.00	21.60	0.18	0.26	50.07	-0.22
8709251935	1.58	61.00	21.20	0.09	0.11	-10.88	0.52
8709251945	1.14	45.00	20.50	0.10	0.13	2.60	-0.08
8709251955	1.06	47.00	20.40	0.13	0.22	-9.63	0.06
8709252005	0.58	37.00	20.10	0.11	0.16	-16.82	0.31
8709252015	0.50	26.00	20.00	0.14	0.22	-0.71	0.00
8709252025	0.47	36.00	19.40	0.07	0.18	-69.61	0.81
8709252035	0.46	6.20	19.40	0.08	0.24	-23.68	0.13
8709252045	0.69	36.00	18.90	0.03	0.07	2.32	-0.42
8709252055	0.97	53.00	18.90	0.07	0.10	-8.05	0.59
8709252105	1.16	45.00	18.70	0.08	0.13	-12.30	0.45
8709252115	0.77	35.00	18.60	0.04	0.06	-11.10	3.50
8709252125	0.82	20.00	18.20	0.09	0.13	-12.28	0.43
8709252135	0.64	24.00	18.10	0.12	0.17	-26.52	0.42
8709252145	0.88	51.00	17.70	0.09	0.23	-20.05	0.12
8709252155	1.00	66.00	17.90	0.11	0.10	8.54	-0.56
8709252205	0.57	73.00	17.30	0.07	0.18	-5.99	0.08
8709252215	0.72	42.00	17.30	0.06	0.19	-39.46	0.41
8709252225	0.14	52.00	16.70	0.04	0.12	-2.77	0.11
8709252235	0.51	54.00	16.90	0.14	0.23	-32.86	0.19
8709252245	0.49	47.00	16.60	0.10	0.16	-34.42	0.62
8709252255	0.94	41.00	16.60	0.05	0.11	-10.34	0.63
8709252305	0.96	42.00	16.30	0.06	0.08	-15.14	2.40
8709252315	0.58	49.00	16.40	0.12	0.16	-18.50	0.32
8709252325	1.00	59.00	16.10	0.14	0.29	3.93	-0.01
8709252335	0.69	40.00	15.90	0.11	0.17	25.10	-0.38
8709252345	0.65	40.00	15.70	0.04	0.14	-2.96	0.08
8709252355	0.66	75.00	15.50	0.21	0.29	19.02	-0.06
8709260005	0.57	58.00	15.00	0.15	0.28	1.16	0.00
8709260015	0.93	68.00	15.50	0.08	0.15	-4.83	0.11
8709260025	0.46	51.00	15.10	0.19	0.17	-21.35	0.30
8709260035	0.42	154.00	15.50	0.09	0.12	-46.45	2.08
8709260045	0.23	92.00	15.60	0.21	0.29	-76.60	0.24
8709260055	0.77	51.00	15.00	0.14	0.25	-38.30	0.17
8709260105	0.74	132.00	15.80	0.10	0.10	3.57	-0.27
8709260115	0.41	34.00	14.80	0.24	0.33	8.14	-0.02
8709260125	0.16	98.00	14.40	0.11	0.22	-47.36	0.33
8709260135	1.00	28.00	13.80	0.08	0.13	5.06	-0.17
8709260145	0.42	121.00	14.20	0.21	0.31	3.01	-0.01
8709260155	0.90	215.10	14.50	0.23	0.34	4.48	-0.01
8709260205	1.06	55.00	13.70	0.38	0.50	45.93	-0.03
8709260215	0.98	13.00	14.20	0.06	0.14	3.95	-0.11
8709260225	0.91	87.00	13.60	0.09	0.16	-1.33	0.02
8709260235	1.01	54.00	13.10	0.06	0.15	-9.04	0.22
8709260245	0.72	47.00	12.90	0.10	0.14	-9.65	0.25
8709260255	0.72	50.00	13.60	0.14	0.20	-9.57	0.09
8709260305	0.68	53.00	13.30	0.17	0.24	-4.72	0.02
8709260315	0.32	200.60	13.70	0.27	0.46	44.12	-0.03
8709260325	0.58	61.00	13.40	0.10	0.14	-11.66	0.35
8709260335	0.79	65.00	13.10	0.55	0.71	-42.96	0.01
8709260345	0.59	344.40	12.90	0.26	0.24	66.25	-0.37
8709260355	0.45	37.00	12.80	0.09	0.20	-6.08	0.06
8709260405	0.16	145.00	12.80	0.12	0.27	62.75	-0.23
8709260415	0.83	50.00	12.60	0.06	0.08	-8.85	1.34
8709260425	0.62	71.00	12.20	0.09	0.22	-24.20	0.16
8709260435	0.29	53.00	11.50	0.04	0.07	-2.37	0.47
8709260445	0.52	39.00	11.70	0.11	0.18	-9.78	0.12
8709260455	0.82	63.00	11.20	0.12	0.23	-10.35	0.06
8709260505	0.65	33.00	11.00	0.49	0.47	-172.08	0.13

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709260535	0.59	47.00	11.10	0.22	0.31	-18.76	0.05
8709260545	0.39	146.00	11.00	0.31	0.45	59.52	-0.05
8709260555	0.74	62.00	10.80	0.09	0.14	17.98	-0.53
8709260605	0.68	62.00	10.50	0.24	0.33	-18.63	0.04
8709260615	0.22	85.00	9.97	0.15	0.34	-203.14	0.40
8709260625	0.67	71.00	10.40	0.06	0.18	0.89	-0.01
8709260635	0.98	34.00	9.83	0.06	0.15	-1.86	0.04
8709260645	1.28	67.00	9.84	0.16	0.32	-8.88	0.02
8709260655	1.52	56.00	9.68	0.07	0.17	-7.14	0.11
8709260705	0.33	115.00	9.73	0.13	0.29	-24.32	0.08
8709260715	0.98	9.40	9.84	0.06	0.16	-3.88	0.08
8709260725	0.67	15.00	10.00	0.03	0.10	-11.49	0.93
8709260735	0.58	27.00	10.00	0.07	0.14	-3.89	0.11
8709260745	0.25	49.00	9.91	0.10	0.22	-12.77	0.09
8709260755	0.24	306.40	10.50	0.06	0.20	-4.58	0.04
8709260805	0.12	219.60	10.70	0.03	0.14	-10.78	0.31
8709260815	0.29	19.00	11.30	0.03	0.14	-2.07	0.05
8709260825	0.20	219.70	11.90	0.05	0.11	13.72	-0.82
8709260835	0.27	309.00	12.80	0.07	0.12	10.47	-0.51
8709260845	0.55	81.00	13.60	0.23	0.29	78.54	-0.24
8709260855	0.53	277.40	14.50	0.11	0.09	23.03	-2.46
8709260905	0.82	210.30	15.20	0.10	0.16	10.43	-0.17
8709260915	1.36	202.00	16.60	0.14	0.14	61.33	-1.82
8709260925	1.11	221.70	17.20	0.37	0.18	53.95	-0.70
8709260935	0.92	216.80	17.70	0.17	0.13	61.98	-1.94
8709260945	1.50	188.00	18.50	0.22	0.20	77.11	-0.66
8709260955	1.76	227.90	19.60	0.43	0.41	108.04	-0.12
8709261005	1.96	277.10	20.50	1.05	0.70	84.49	-0.02
8709261015	1.71	252.60	21.20	1.57	0.63	139.74	-0.04
8709261025	3.19	283.40	21.90	1.43	0.25	129.39	-0.62
8709261035	3.69	299.10	22.10	1.89	0.63	112.44	-0.03
8709261045	3.17	311.20	22.70	1.24	0.40	92.51	-0.10
8709261055	2.73	320.60	23.10	1.57	0.52	114.38	-0.06
8709261105	3.66	316.50	23.10	1.85	0.71	103.90	-0.02
8709261115	3.67	298.90	23.50	2.38	0.85	63.92	-0.01
8709261125	3.48	297.30	23.80	1.61	0.52	111.53	-0.06
8709261135	3.67	303.00	24.10	1.48	0.72	187.61	-0.04
8709261145	4.07	302.20	24.30	2.10	0.97	133.27	-0.01
8709261155	3.26	308.30	24.80	3.87	1.02	200.55	-0.01
8709261205	3.77	299.70	24.90	1.55	0.53	156.56	-0.07
8709261215	2.14	320.90	25.60	2.52	0.83	163.03	-0.02
8709261225	3.62	322.00	25.50	1.54	0.49	155.26	-0.10
8709261235	4.17	277.60	25.90	3.20	0.65	195.37	-0.05
8709261245	4.88	263.90	26.20	2.28	0.72	188.91	-0.04
8709261255	3.39	315.10	26.30	2.11	0.61	157.85	-0.05
8709261305	4.04	283.50	26.90	3.68	1.08	247.13	-0.01
8709261315	4.04	315.80	26.80	2.71	0.75	194.08	-0.03
8709261325	3.14	309.10	27.30	1.72	0.66	217.37	-0.05
8709261335	4.44	298.60	27.20	1.80	0.83	129.39	-0.02
8709261345	3.48	307.20	27.60	2.90	0.89	203.14	-0.02
8709261355	3.95	286.90	28.40	2.70	0.63	253.60	-0.07
8709261405	4.15	320.80	28.00	1.63	0.45	123.95	-0.10
8709261415	4.55	293.80	28.40	2.28	0.76	182.44	-0.03
8709261425	3.38	294.10	28.90	5.67	1.67	170.79	0.00
8709261435	3.72	317.30	29.10	3.33	0.43	147.50	-0.13
8709261445	4.14	295.50	29.30	3.70	0.60	219.96	-0.07
8709261455	4.36	290.80	29.60	2.99	0.82	226.43	-0.03
8709261505	4.12	277.00	29.80	3.13	0.54	137.15	-0.06
8709261515	3.90	293.70	29.90	2.05	0.56	156.56	-0.06
8709261525	4.25	274.90	30.20	3.51	1.41	181.14	0.00
8709261535	4.78	300.80	30.10	2.84	0.85	129.39	-0.01
8709261545	5.37	294.20	30.20	1.94	0.60	78.02	-0.03

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709261615	4.48	309.10	30.60	2.11	0.75	112.70	-0.02
8709261625	4.78	308.40	30.80	1.82	0.58	75.17	-0.03
8709261635	5.71	301.90	30.90	2.28	0.49	66.50	-0.04
8709261645	3.41	329.00	31.00	2.63	0.36	40.76	-0.06
8709261655	4.75	308.20	30.90	3.33	0.60	43.09	-0.01
8709261705	3.36	318.70	30.90	3.28	1.03	32.22	0.00
8709261715	3.95	311.70	30.80	4.71	1.57	35.06	0.00
8709261725	3.64	309.50	30.80	3.11	0.89	14.88	0.00
8709261735	4.39	302.90	30.50	4.31	0.82	-4.71	0.00
8709261745	2.49	321.40	30.50	3.01	1.05	-19.28	0.00
8709261755	3.18	321.90	30.40	2.77	0.76	-17.86	0.00
8709261805	2.23	299.70	30.20	1.77	0.33	-27.04	0.05
8709261815	3.90	291.30	30.00	2.39	0.77	-6.29	0.00
8709261825	3.46	290.20	29.80	1.33	0.58	-29.50	0.01
8709261835	2.30	269.10	29.40	0.91	0.41	-42.96	0.04
8709261845	2.41	255.90	29.00	0.42	0.23	-27.95	0.17
8709261855	2.27	257.70	28.70	0.52	0.22	-45.41	0.30
8709261905	1.40	280.80	27.00	0.17	0.32	-91.74	0.20
8709261915	0.19	35.00	24.80	0.07	0.15	13.84	-0.29
8709261925	0.68	83.00	24.40	0.11	0.20	-21.87	0.19
8709261935	0.22	316.20	23.40	0.03	0.08	11.26	-1.37
8709261945	0.36	88.00	22.10	0.17	0.34	81.26	-0.14
8709261955	0.19	185.60	21.90	0.14	0.23	-51.11	0.30
8709262005	0.75	73.00	20.40	0.59	0.36	83.71	-0.13
8709262015	1.02	34.00	19.90	0.23	0.23	24.71	-0.15
8709262025	0.68	3.10	19.30	0.34	0.34	-87.08	0.16
8709262035	0.31	16.00	19.60	0.36	0.48	-223.84	0.14
8709262045	0.95	59.00	18.50	0.30	0.29	-19.02	0.06
8709262055	1.82	59.00	18.40	0.38	0.26	-88.50	0.35
8709262105	0.57	60.00	18.40	0.22	0.36	-27.82	0.04
8709262115	1.29	57.00	18.20	0.16	0.14	-14.36	0.36
8709262125	0.70	50.00	17.20	0.17	0.17	-54.86	0.82
8709262135	1.11	69.00	16.90	0.18	0.26	-31.31	0.13
8709262145	1.17	46.00	16.70	0.14	0.13	-17.98	0.55
8709262155	1.10	27.00	16.10	0.06	0.12	14.36	-0.60
8709262205	1.40	50.00	16.00	0.11	0.19	-2.06	0.02
8709262215	1.50	61.00	15.70	0.06	0.15	-7.94	0.18
8709262225	0.97	66.00	15.00	0.21	0.37	11.53	-0.02
8709262235	0.70	12.00	14.80	0.23	0.39	-31.83	0.04
8709262245	0.83	58.00	15.00	0.37	0.50	-28.08	0.02
8709262255	1.00	66.00	13.80	0.09	0.15	-20.57	0.49
8709262305	0.89	68.00	14.40	0.13	0.20	-24.45	0.23
8709262315	0.47	274.40	14.20	0.07	0.21	3.44	-0.03
8709262325	0.97	35.00	14.00	0.08	0.15	-6.87	0.16
8709262335	0.91	47.00	13.60	0.06	0.16	-17.34	0.32
8709262345	0.63	68.00	13.40	0.04	0.09	-18.50	2.18
8709262355	0.36	26.00	13.10	0.06	0.18	-22.25	0.27
8709270005	0.39	98.00	13.20	0.05	0.14	-13.84	0.40
8709270015	0.54	58.00	12.70	0.09	0.17	-0.33	0.01
8709270025	0.52	18.00	12.80	0.06	0.09	-18.76	1.84
8709270035	0.75	58.00	12.20	0.03	0.09	-6.03	0.71
8709270045	0.60	45.00	12.30	0.10	0.23	1.28	-0.01
8709270055	0.68	23.00	12.50	0.04	0.15	-1.44	0.03
8709270105	0.79	63.00	12.50	0.22	0.20	-55.77	0.53
8709270115	0.72	55.00	12.00	0.07	0.15	-7.87	0.16
8709270125	0.20	109.00	12.10	0.21	0.31	85.27	-0.21
8709270135	0.50	49.00	11.80	0.08	0.17	-34.29	0.51
8709270145	0.61	46.00	11.10	0.19	0.25	-33.90	0.16
8709270155	0.76	61.00	11.40	0.04	0.13	-10.49	0.36
8709270205	0.42	36.00	11.40	0.10	0.20	-9.25	0.08
8709270215	0.50	37.00	11.80	0.12	0.31	-15.79	0.04
8709270225	0.84	73.00	10.90	0.12	0.22	-15.91	0.11

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709270255	0.81	45.00	10.60	0.19	0.37	-26.01	0.04
8709270305	0.80	25.00	11.20	0.13	0.21	-47.74	0.39
8709270315	0.33	113.00	11.10	0.08	0.12	-8.59	0.35
8709270325	0.32	36.00	10.50	0.08	0.09	1.91	-0.17
8709270335	0.23	65.00	10.50	0.09	0.17	13.33	-0.21
8709270345	0.76	26.00	10.30	0.06	0.16	8.77	-0.15
8709270355	0.41	121.00	10.50	0.04	0.12	7.31	-0.30
8709270405	0.10	311.20	10.20	0.07	0.17	-42.18	0.65
8709270415	1.00	78.00	10.40	0.28	0.32	-21.74	0.05
8709270425	0.61	50.00	10.30	0.12	0.13	-9.15	0.28
8709270435	0.42	357.50	10.30	0.20	0.29	-17.34	0.05
8709270445	0.87	59.00	9.75	0.09	0.11	-19.41	0.96
8709270455	0.94	91.00	9.53	0.21	0.35	1.89	0.00
8709270505	1.21	44.00	9.88	0.18	0.13	-7.39	0.28
8709270515	0.35	29.00	9.20	0.15	0.20	-25.75	0.23
8709270525	1.08	73.00	9.23	0.08	0.11	-4.61	0.24
8709270535	0.96	43.00	9.35	0.25	0.35	-58.61	0.10
8709270545	0.36	342.50	9.51	0.26	0.30	-36.88	0.10
8709270555	0.61	58.00	9.20	0.09	0.21	-1.63	0.01
8709270605	0.89	49.00	8.70	0.14	0.32	1.36	0.00
8709270615	0.86	60.00	8.91	0.21	0.32	-18.89	0.04
8709270625	1.12	44.00	8.83	0.06	0.16	-9.51	0.18
8709270635	1.24	27.00	8.76	0.18	0.15	17.08	-0.41
8709270645	0.91	69.00	9.34	0.23	0.30	-46.71	0.14
8709270655	0.61	47.00	8.53	0.12	0.26	-10.84	0.05
8709270705	0.40	43.00	9.21	0.09	0.22	-4.96	0.03
8709270715	0.78	49.00	8.60	0.04	0.10	-8.81	0.66
8709270725	0.75	66.00	8.95	0.17	0.35	-4.40	0.01
8709270735	0.49	6.00	9.52	0.25	0.27	-18.76	0.07
8709270745	0.86	36.00	9.44	0.09	0.19	-13.07	0.13
8709270755	0.58	82.00	9.73	0.15	0.28	4.81	-0.02
8709270805	0.45	22.00	10.50	0.12	0.13	7.47	-0.26
8709270815	0.41	106.00	11.70	0.11	0.28	35.32	-0.12
8709270825	0.12	299.70	12.10	0.02	0.09	5.89	-0.54
8709270835	0.43	3.30	12.90	0.07	0.16	-5.81	0.11
8709270845	0.43	84.00	14.00	0.09	0.11	28.47	-1.66
8709270855	0.43	20.00	15.20	0.13	0.29	11.92	-0.04
8709270905	0.06	20.00	16.20	0.10	0.21	93.16	-0.72
8709270915	0.45	235.80	17.40	0.07	0.11	68.45	-4.23
8709270925	0.45	297.00	18.60	0.07	0.08	17.34	-2.24
8709270935	0.63	282.30	19.70	0.11	0.09	45.03	-5.10
8709270945	1.31	233.00	20.80	0.21	0.20	87.21	-0.81
8709270955	2.46	271.50	21.70	0.37	0.42	57.45	-0.06
8709271005	3.15	270.70	21.80	0.23	0.12	46.19	-1.92
8709271015	3.40	270.70	22.10	0.26	0.11	69.61	-4.07
8709271025	3.37	271.20	22.30	0.30	0.21	47.61	-0.36
8709271035	3.81	265.00	22.40	0.40	0.10	84.75	-5.32
8709271045	3.41	264.60	22.60	0.41	0.20	119.42	-1.12
8709271055	3.08	254.90	23.00	0.46	0.18	146.21	-1.92
8709271105	2.53	251.90	23.40	0.70	0.43	141.03	-0.13
8709271115	2.66	243.60	24.00	0.45	0.23	156.56	-0.89
8709271125	2.40	253.70	24.50	1.26	0.30	148.80	-0.39
8709271135	1.79	253.60	25.20	0.88	0.51	159.15	-0.09
8709271145	2.55	244.80	25.40	0.84	0.63	157.85	-0.04
8709271155	2.75	249.90	25.80	0.96	0.34	229.01	-0.42
8709271205	2.38	261.70	26.20	1.09	0.59	143.62	-0.05
8709271215	2.28	254.50	26.50	1.72	0.73	197.96	-0.04
8709271225	1.20	259.80	27.20	0.78	0.31	196.67	-0.45
8709271235	3.04	266.60	27.30	1.30	0.36	248.42	-0.39
8709271245	2.80	261.40	27.50	0.74	0.08	115.67	-19.00
8709271255	2.32	256.10	28.00	1.80	0.61	150.09	-0.05
8709271305	2.02	282.10	28.40	1.32	0.63	194.08	-0.05

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709271335	3.49	239.10	29.20	1.15	0.42	182.44	-0.17
8709271345	2.92	255.40	29.40	1.34	0.80	127.32	-0.02
8709271355	3.72	239.30	29.40	1.48	0.67	120.59	-0.03
8709271405	3.12	253.10	29.80	0.80	0.22	192.79	-1.20
8709271415	3.00	230.20	30.00	0.72	0.51	173.38	-0.09
8709271425	3.10	246.60	30.40	0.87	0.47	196.67	-0.13
8709271435	2.18	248.70	30.40	0.76	0.20	115.80	-1.07
8709271445	2.16	251.20	30.90	0.95	0.33	231.60	-0.44
8709271455	2.12	297.00	30.80	1.21	0.39	69.22	-0.08
8709271505	2.05	227.50	31.00	0.58	0.33	197.96	-0.39
8709271515	4.24	236.30	31.00	0.87	0.31	150.09	-0.36
8709271525	3.30	239.60	31.00	0.68	0.34	96.91	-0.17
8709271535	3.53	259.70	31.10	0.70	0.46	120.98	-0.09
8709271545	3.00	253.30	31.40	0.98	0.22	172.08	-1.16
8709271555	3.03	257.60	31.50	1.01	0.30	106.61	-0.27
8709271605	3.33	238.00	31.40	0.56	0.22	77.89	-0.53
8709271615	2.96	252.30	31.50	0.41	0.32	80.09	-0.16
8709271625	3.40	251.70	31.60	0.43	0.24	67.54	-0.34
8709271635	3.46	249.60	31.60	0.54	0.43	73.88	-0.06
8709271645	3.39	243.10	31.60	0.39	0.21	42.70	-0.32
8709271655	3.34	252.60	31.50	0.56	0.37	34.16	-0.05
8709271705	2.65	257.00	31.60	0.36	0.30	37.91	-0.10
8709271715	3.75	258.10	31.40	0.58	0.31	21.35	-0.05
8709271725	3.02	256.60	31.40	0.55	0.32	15.14	-0.03
8709271735	3.17	259.00	31.20	0.26	0.31	1.46	0.00
8709271745	2.38	255.90	30.90	0.16	0.20	-10.71	0.10
8709271755	2.23	257.20	30.50	0.13	0.21	-13.33	0.10
8709271805	1.99	256.60	30.20	0.04	0.07	-1.24	0.24
8709271815	1.14	250.00	29.20	0.10	0.28	-27.82	0.09
8709271825	0.77	214.80	27.70	0.13	0.22	-44.64	0.30
8709271835	0.37	40.00	26.90	0.31	0.44	15.40	-0.01
8709271845	0.91	88.00	25.90	0.10	0.15	-40.63	0.86
8709271855	1.52	77.00	24.00	0.13	0.25	-3.47	0.02
8709271905	1.32	71.00	23.70	0.11	0.14	-24.71	0.70
8709271915	1.75	62.00	23.40	0.05	0.09	-4.59	0.48
8709271925	1.63	50.00	22.70	0.07	0.09	-15.79	1.65
8709271935	1.25	44.00	22.40	0.07	0.09	-7.93	0.67
8709271945	0.83	26.00	21.20	0.14	0.29	-67.67	0.20
8709271955	1.41	45.00	21.50	0.08	0.10	4.90	-0.33
8709272005	1.09	49.00	21.90	0.06	0.11	-7.36	0.44
8709272015	1.02	68.00	21.70	0.10	0.12	-10.62	0.43
8709272025	1.32	92.00	21.10	0.14	0.17	-14.88	0.20
8709272035	1.87	88.00	20.80	0.28	0.29	-38.04	0.11
8709272045	2.14	86.00	20.80	0.28	0.38	-50.20	0.07
8709272055	1.37	102.00	19.80	0.26	0.31	-34.42	0.09
8709272105	1.56	94.00	19.80	0.24	0.23	-18.37	0.11
8709272115	1.86	96.00	19.80	0.16	0.17	-17.73	0.25
8709272125	2.05	88.00	19.80	0.19	0.15	-33.51	0.68
8709272135	1.89	95.00	19.50	0.22	0.18	-24.32	0.29
8709272145	1.58	89.00	19.00	0.16	0.14	-15.91	0.44
8709272155	1.61	84.00	18.90	0.18	0.16	-25.23	0.45
8709272205	1.05	84.00	18.60	0.28	0.28	-21.35	0.07
8709272215	1.07	91.00	18.40	0.22	0.23	-54.08	0.33
8709272225	1.43	83.00	18.10	0.22	0.25	-28.47	0.13
8709272235	1.41	85.00	17.90	0.20	0.20	-53.05	0.46
8709272245	0.76	75.00	17.90	0.17	0.24	-36.88	0.20
8709272255	0.93	54.00	17.90	0.19	0.21	-40.76	0.34
8709272305	1.22	50.00	17.70	0.22	0.33	-7.44	0.02
8709272315	1.30	64.00	17.20	0.16	0.21	-19.80	0.16
8709272325	1.40	52.00	16.90	0.19	0.18	-36.36	0.48
8709272335	1.29	62.00	17.00	0.19	0.15	-12.73	0.30
8709272345	1.63	36.00	16.70	0.09	0.11	-11.94	0.65

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709280015	1.30	50.00	15.90	0.07	0.14	-8.50	0.24
8709280025	0.54	27.00	15.40	0.24	0.30	1.44	0.00
8709280035	1.29	37.00	15.90	0.06	0.10	-4.50	0.36
8709280045	0.59	32.00	14.90	0.11	0.20	-27.04	0.26
8709280055	1.18	66.00	15.10	0.08	0.11	-8.41	0.47
8709280105	0.79	38.00	15.30	0.34	0.35	-14.36	0.02
8709280115	0.75	52.00	15.30	0.08	0.16	-4.97	0.10
8709280125	0.33	51.00	15.10	0.04	0.10	-5.86	0.39
8709280135	0.53	41.00	15.10	0.08	0.14	-22.77	0.65
8709280145	0.59	52.00	15.30	0.07	0.13	-23.16	0.84
8709280155	1.16	36.00	15.50	0.08	0.19	-15.40	0.17
8709280205	1.53	47.00	15.40	0.12	0.14	-38.56	1.00
8709280215	1.32	53.00	14.90	0.33	0.40	-1.24	0.00
8709280225	1.40	39.00	15.40	0.13	0.13	-23.55	0.75
8709280235	1.74	63.00	14.80	0.15	0.18	-35.45	0.44
8709280245	1.42	49.00	14.80	0.10	0.13	-5.01	0.17
8709280255	1.60	54.00	14.20	0.13	0.22	-4.93	0.03
8709280305	1.30	42.00	14.20	0.08	0.15	-14.36	0.30
8709280315	0.98	42.00	13.50	0.09	0.11	7.52	-0.43
8709280325	1.34	40.00	13.50	0.14	0.25	-40.89	0.20
8709280335	0.34	63.00	13.30	0.04	0.13	-4.72	0.16
8709280345	1.14	48.00	13.90	0.18	0.15	-15.40	0.31
8709280355	1.71	64.00	13.60	0.09	0.21	-3.03	0.02
8709280405	1.20	66.00	13.30	0.09	0.20	-6.18	0.06
8709280415	1.02	34.00	13.00	0.12	0.12	-3.01	0.12
8709280425	0.41	74.00	13.90	0.10	0.21	-42.05	0.32
8709280435	0.83	35.00	13.70	0.06	0.16	-13.07	0.25
8709280445	0.61	53.00	13.70	0.08	0.17	-20.05	0.30
8709280455	1.03	44.00	13.60	0.51	0.54	-22.25	0.01
8709280505	0.38	45.00	13.50	0.93	0.85	-104.80	0.01
8709280515	0.67	80.00	13.50	0.83	0.77	-81.90	0.01
8709280525	0.72	70.00	14.00	0.09	0.20	-8.73	0.08
8709280535	1.03	69.00	13.40	0.14	0.07	-6.92	1.86
8709280545	0.79	43.00	13.20	0.05	0.14	-2.15	0.06
8709280555	0.44	76.00	13.40	0.07	0.13	-29.37	0.93
8709280605	1.23	70.00	13.10	0.16	0.27	-15.14	0.06
8709280615	0.52	80.00	13.30	0.12	0.30	-1.90	0.01
8709280625	0.70	68.00	12.70	0.18	0.21	-31.44	0.25
8709280635	0.66	52.00	13.70	0.06	0.14	-4.45	0.12
8709280645	0.74	32.00	13.40	0.04	0.12	-8.50	0.35
8709280655	0.32	264.10	13.20	0.06	0.18	5.84	-0.08
8709280705	0.39	210.90	13.40	0.04	0.13	-10.56	0.33
8709280715	0.31	239.10	13.20	0.04	0.11	-2.85	0.16
8709280725	0.18	345.20	13.50	0.05	0.16	-11.02	0.20
8709280735	0.52	229.40	13.60	0.04	0.13	-1.08	0.04
8709280745	0.43	25.00	14.00	0.08	0.16	-23.94	0.40
8709280755	0.99	72.00	13.90	0.08	0.18	-4.01	0.05
8709280805	0.35	135.00	14.80	0.03	0.11	1.11	-0.06
8709280815	0.16	146.00	15.60	0.05	0.17	1.71	-0.03
8709280825	0.78	188.00	16.10	0.05	0.09	-11.85	1.31
8709280835	0.51	214.50	17.00	0.05	0.15	0.60	-0.01
8709280845	0.50	251.00	18.10	0.06	0.06	14.23	-5.14
8709280855	0.49	231.40	19.10	0.07	0.18	10.97	-0.15
8709280905	0.68	262.70	20.20	0.10	0.11	23.03	-1.27
8709280915	0.69	255.30	20.90	0.08	0.19	36.49	-0.41
8709280925	1.07	252.00	21.90	0.17	0.22	44.38	-0.30
8709280935	2.68	239.00	22.70	0.10	0.14	24.20	-0.62
8709280945	3.12	234.80	23.30	0.14	0.10	53.18	-3.85
8709280955	2.61	240.80	24.10	0.21	0.19	30.28	-0.31
8709281005	2.45	243.80	24.70	0.26	0.22	72.20	-0.48
8709281015	2.64	259.40	25.30	0.23	0.17	96.01	-1.33
8709281025	2.69	265.60	25.70	0.24	0.16	72.07	-1.28

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709281055	3.45	262.10	26.20	0.22	0.09	69.87	-6.83
8709281105	3.26	265.90	26.70	0.36	0.16	128.09	-2.12
8709281115	3.41	259.70	26.90	0.48	0.27	84.23	-0.30
8709281125	2.87	246.40	27.40	0.38	0.14	119.94	-3.06
8709281135	2.82	273.80	28.30	0.91	0.37	166.91	-0.22
8709281145	2.68	268.60	28.60	1.05	0.68	222.55	-0.05
8709281155	3.66	258.80	28.50	0.71	0.36	111.79	-0.17
8709281205	3.11	271.20	28.90	1.35	0.66	173.38	-0.04
8709281215	3.30	257.00	29.20	0.76	0.41	169.50	-0.17
8709281225	3.77	263.20	29.50	1.23	0.31	143.62	-0.33
8709281235	3.78	255.30	29.70	0.63	0.22	177.26	-1.21
8709281245	2.94	272.40	30.20	1.71	0.89	148.80	-0.01
8709281255	3.71	255.20	30.50	0.91	0.41	166.91	-0.17
8709281305	3.17	241.60	30.70	0.75	0.35	173.38	-0.29
8709281315	3.29	250.80	31.00	0.57	0.30	212.19	-0.56
8709281325	2.88	247.50	31.30	0.88	0.44	134.56	-0.11
8709281335	2.70	230.30	31.50	1.21	0.81	216.08	-0.03
8709281345	3.07	232.20	31.90	0.50	0.26	204.43	-0.77
8709281355	2.13	218.80	32.00	0.64	0.20	188.91	-1.56
8709281405	3.00	266.00	32.10	0.58	0.35	183.73	-0.30
8709281415	1.68	221.20	32.20	2.09	0.78	108.43	-0.02
8709281425	1.92	254.30	32.40	0.71	0.41	173.38	-0.17
8709281435	1.41	263.50	32.70	1.05	0.57	147.50	-0.05
8709281445	1.59	267.60	32.80	0.72	0.49	151.38	-0.09
8709281455	2.66	267.10	32.90	0.78	0.23	106.36	-0.57
8709281505	2.50	251.40	33.20	0.75	0.33	123.44	-0.24
8709281515	1.62	254.10	33.30	0.79	0.63	133.27	-0.04
8709281525	2.11	250.10	33.50	0.45	0.18	94.19	-1.13
8709281535	2.20	248.30	33.50	0.94	0.49	101.70	-0.06
8709281545	2.12	278.60	33.60	0.34	0.15	111.14	-2.27
8709281555	1.07	247.50	33.60	0.35	0.28	73.49	-0.24
8709281605	1.32	244.70	33.90	0.53	0.57	102.09	-0.04
8709281615	2.01	245.40	34.00	0.52	0.32	55.25	-0.11
8709281625	2.76	238.10	34.00	0.51	0.22	89.79	-0.59
8709281635	1.78	259.20	34.00	0.35	0.25	38.56	-0.16
8709281645	2.04	256.90	34.00	0.29	0.13	73.88	-2.43
8709281655	2.72	263.90	34.00	0.30	0.32	25.62	-0.05
8709281705	3.39	269.90	33.80	0.27	0.23	16.95	-0.10
8709281715	2.43	268.80	33.90	0.21	0.26	11.26	-0.04
8709281725	2.77	260.80	33.70	0.21	0.20	8.60	-0.07
8709281735	1.85	272.80	33.60	0.07	0.10	0.71	-0.05
8709281745	2.08	268.90	33.30	0.17	0.07	-4.62	1.03
8709281755	2.53	260.00	33.00	0.07	0.17	-13.33	0.20
8709281805	2.18	254.30	32.30	0.03	0.09	-0.39	0.04
8709281815	1.41	244.00	30.90	0.10	0.26	-23.16	0.09
8709281825	0.37	221.60	29.80	0.24	0.39	-183.73	0.21
8709281835	0.54	54.00	29.40	0.18	0.33	21.61	-0.04
8709281845	0.74	72.00	28.10	0.10	0.19	-48.65	0.52
8709281855	1.24	73.00	26.60	0.12	0.08	-2.29	0.32
8709281905	1.14	71.00	26.20	0.14	0.08	16.04	-2.50
8709281915	1.29	66.00	25.20	0.16	0.27	-54.73	0.19
8709281925	2.19	48.00	25.00	0.15	0.23	-18.63	0.10
8709281935	1.70	59.00	24.40	0.15	0.19	-26.78	0.28
8709281945	1.26	49.00	23.70	0.11	0.17	-35.19	0.52
8709281955	1.28	54.00	23.10	0.18	0.22	-30.02	0.20
8709282005	0.35	40.00	23.00	0.35	0.40	-109.20	0.12
8709282015	0.59	23.00	22.60	0.19	0.25	-59.65	0.26
8709282025	1.48	55.00	23.20	0.09	0.18	-20.05	0.23
8709282035	0.60	53.00	22.00	0.16	0.28	-36.88	0.12
8709282045	0.98	50.00	22.10	0.12	0.15	-13.46	0.31
8709282055	1.66	62.00	21.50	0.18	0.15	-39.72	0.92
8709282105	1.49	54.00	21.40	0.11	0.11	-12.49	0.70

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709282135	2.04	74.00	20.90	0.21	0.23	-21.09	0.13
8709282145	1.42	93.00	20.90	0.16	0.22	-4.98	0.03
8709282155	0.46	58.00	20.60	0.13	0.18	-23.81	0.32
8709282205	1.06	60.00	19.50	0.22	0.19	-70.13	0.80
8709282215	1.04	55.00	20.10	0.16	0.14	-24.07	0.60
8709282225	0.87	67.00	19.60	0.23	0.21	-43.09	0.35
8709282235	0.77	40.00	19.70	0.14	0.16	-22.77	0.40
8709282245	0.98	82.00	19.40	0.15	0.17	-34.55	0.47
8709282255	1.13	79.00	19.80	0.11	0.14	-10.95	0.26
8709282305	0.85	29.00	19.50	0.08	0.09	-9.61	0.93
8709282315	0.45	31.00	19.50	0.10	0.16	-28.72	0.49
8709282325	0.14	158.00	18.90	0.04	0.14	10.45	-0.27
8709282335	0.78	30.00	19.20	0.16	0.20	6.02	-0.06
8709282345	1.25	85.00	18.50	0.06	0.08	-0.07	0.01
8709282355	1.21	58.00	18.60	0.10	0.15	-7.05	0.15
8709290005	0.61	50.00	18.10	0.14	0.21	-56.02	0.46
8709290015	0.68	20.00	18.00	0.07	0.18	-20.83	0.25
8709290025	0.40	59.00	17.50	0.09	0.22	-30.66	0.21
8709290035	0.50	19.00	17.90	0.08	0.26	-21.09	0.09
8709290045	0.87	38.00	17.80	0.05	0.10	-9.67	0.63
8709290055	0.85	57.00	17.00	0.08	0.18	7.84	-0.11
8709290105	0.27	179.60	17.10	0.05	0.14	-6.77	0.18
8709290115	0.70	47.00	17.20	0.04	0.13	-11.01	0.41
8709290125	0.95	61.00	16.80	0.05	0.12	-11.92	0.49
8709290135	0.54	53.00	16.60	0.16	0.23	-67.67	0.42
8709290145	1.06	48.00	16.90	0.22	0.33	-12.82	0.03
8709290155	0.43	39.00	16.20	0.11	0.16	-22.51	0.41
8709290205	1.19	34.00	16.50	0.09	0.12	-19.54	0.94
8709290215	1.20	51.00	16.80	0.10	0.18	-21.09	0.27
8709290225	0.90	57.00	16.80	0.11	0.18	-20.05	0.24
8709290235	0.86	41.00	16.90	0.09	0.17	0.88	-0.01
8709290245	0.33	16.00	16.20	0.14	0.17	-26.39	0.38
8709290255	0.91	31.00	17.20	0.03	0.06	-10.79	3.08
8709290305	0.71	64.00	16.80	0.14	0.20	-37.26	0.32
8709290315	0.95	39.00	17.00	0.12	0.12	-15.14	0.69
8709290325	0.68	57.00	16.70	0.28	0.34	-35.84	0.07
8709290335	0.79	61.00	16.30	0.26	0.32	-4.46	0.01
8709290345	0.73	73.00	16.80	0.09	0.16	-17.73	0.31
8709290355	0.88	70.00	16.80	0.10	0.22	-20.05	0.14
8709290405	1.10	59.00	16.90	0.07	0.05	-1.32	0.96
8709290415	1.26	77.00	16.60	0.13	0.20	-23.29	0.22
8709290425	1.18	64.00	16.60	0.21	0.19	-26.39	0.27
8709290435	1.05	56.00	16.60	0.12	0.16	-15.91	0.27
8709290445	0.99	72.00	16.40	0.08	0.09	-16.82	1.71
8709290455	1.04	57.00	16.20	0.21	0.34	-38.43	0.07
8709290505	1.30	48.00	16.30	0.07	0.16	-5.33	0.09
8709290515	0.73	34.00	15.80	0.10	0.20	-30.54	0.28
8709290525	1.22	38.00	15.90	0.08	0.10	-13.59	1.06
8709290535	0.94	28.00	15.60	0.08	0.16	-39.72	0.68
8709290545	0.20	7.90	15.50	0.09	0.23	-49.81	0.32
8709290555	0.15	4.60	15.80	0.10	0.24	-27.43	0.15
8709290605	1.02	44.00	15.40	0.15	0.11	-10.61	0.62
8709290615	0.75	46.00	15.50	0.15	0.23	-13.84	0.08
8709290625	0.81	36.00	15.80	0.08	0.14	-3.65	0.10
8709290635	0.94	59.00	16.40	0.06	0.14	-16.95	0.48
8709290645	1.43	57.00	16.10	0.15	0.20	-32.61	0.28
8709290655	1.22	55.00	15.80	0.06	0.17	-2.73	0.04
8709290705	1.26	45.00	15.60	0.10	0.16	-46.32	0.88
8709290715	0.66	79.00	15.00	0.10	0.20	-2.59	0.02
8709290725	0.33	338.80	15.00	0.12	0.16	-4.76	0.09
8709290735	1.16	53.00	15.40	0.12	0.15	-21.22	0.48
8709290745	0.40	100.00	15.70	0.23	0.39	-24.58	0.03

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709290815	0.28	41.00	16.80	0.05	0.14	-3.12	0.09
8709290825	0.49	79.00	17.30	0.04	0.10	-4.88	0.37
8709290835	0.60	246.70	18.50	0.03	0.06	-1.03	0.41
8709290845	0.70	227.70	19.50	0.05	0.09	1.35	-0.16
8709290855	0.27	153.00	20.90	0.06	0.13	36.49	-1.11
8709290905	0.53	208.10	21.70	0.07	0.14	12.72	-0.33
8709290915	0.64	265.20	22.80	0.06	0.08	18.37	-2.83
8709290925	0.80	298.50	23.80	0.10	0.12	21.35	-0.89
8709290935	1.38	249.50	24.80	0.32	0.34	36.75	-0.07
8709290945	3.29	237.10	24.90	0.15	0.19	41.15	-0.42
8709290955	3.21	241.00	25.70	0.26	0.29	24.20	-0.07
8709291005	3.07	244.50	26.20	0.20	0.10	27.30	-1.90
8709291015	2.89	246.90	26.60	0.26	0.16	51.11	-0.82
8709291025	2.38	242.80	27.10	0.23	0.19	88.24	-0.86
8709291035	2.47	234.00	27.60	0.16	0.14	95.36	-2.25
8709291045	2.89	235.40	27.80	0.20	0.14	100.66	-2.39
8709291055	3.05	252.00	28.60	0.29	0.16	66.89	-1.12
8709291105	3.31	261.20	29.10	0.39	0.16	92.25	-1.60
8709291115	3.27	264.70	29.50	0.32	0.24	147.50	-0.73
8709291125	3.00	263.50	29.80	0.27	0.14	110.76	-2.62
8709291135	3.33	260.50	29.90	0.42	0.24	98.59	-0.50
8709291145	3.68	256.50	30.20	0.33	0.21	113.34	-0.84
8709291155	3.53	249.50	30.50	0.37	0.20	135.86	-1.11
8709291205	3.85	250.80	30.70	0.35	0.19	129.39	-1.34
8709291215	3.22	256.00	31.40	0.65	0.31	188.91	-0.43
8709291225	3.22	254.70	31.80	0.78	0.47	139.74	-0.09
8709291235	2.32	283.20	32.60	1.25	0.52	199.26	-0.10
8709291245	3.99	255.90	32.30	0.48	0.28	147.50	-0.49
8709291255	4.19	251.20	32.40	0.60	0.35	120.85	-0.19
8709291305	3.95	252.00	32.80	0.66	0.28	151.38	-0.46
8709291315	3.77	254.70	33.00	0.74	0.33	187.61	-0.37
8709291325	3.42	245.30	33.00	0.65	0.36	150.09	-0.23
8709291335	3.04	243.20	33.50	0.59	0.18	165.62	-2.02
8709291345	3.41	260.00	33.70	0.71	0.30	163.03	-0.41
8709291355	2.64	310.80	33.90	1.39	0.66	111.40	-0.03
8709291405	2.81	272.60	34.50	1.28	0.68	165.62	-0.04
8709291415	2.86	250.00	34.60	0.96	0.33	218.66	-0.43
8709291425	2.63	252.10	34.70	0.73	0.28	155.26	-0.47
8709291435	2.05	270.20	34.80	1.22	0.39	104.03	-0.12
8709291445	2.43	255.90	35.20	0.82	0.37	168.20	-0.23
8709291455	3.17	268.80	35.30	0.98	0.31	128.09	-0.31
8709291505	3.50	255.30	35.30	1.15	0.64	133.27	-0.04
8709291515	2.84	250.90	35.40	0.79	0.30	133.27	-0.34
8709291525	2.84	254.40	35.60	0.98	0.27	79.44	-0.27
8709291535	3.39	256.40	35.60	0.88	0.49	91.09	-0.05
8709291545	2.60	261.20	35.80	1.05	0.21	127.70	-0.93
8709291555	2.31	243.50	35.90	0.87	0.41	108.81	-0.11
8709291605	3.27	239.80	35.80	0.65	0.18	51.37	-0.61
8709291615	3.24	241.20	35.90	0.42	0.24	44.25	-0.22
8709291625	3.75	259.30	35.90	1.01	0.33	57.84	-0.11
8709291635	3.22	254.00	35.90	0.40	0.37	67.41	-0.09
8709291645	2.81	251.30	35.90	0.51	0.43	38.17	-0.03
8709291655	2.57	254.80	35.90	0.28	0.32	31.44	-0.06
8709291705	2.28	250.90	35.90	0.19	0.16	17.86	-0.33
8709291715	2.23	254.40	35.80	0.15	0.16	10.43	-0.19
8709291725	2.28	254.50	35.50	0.09	0.16	-7.94	0.15
8709291735	1.97	258.50	35.50	0.19	0.29	-6.46	0.02
8709291745	2.03	252.10	34.90	0.03	0.04	3.07	-2.57
8709291755	1.61	257.50	34.00	0.03	0.10	-2.15	0.15
8709291805	0.51	273.90	33.40	0.06	0.18	-65.47	0.83
8709291815	0.27	272.10	32.20	0.07	0.11	16.17	-0.76
8709291825	0.53	53.00	31.50	0.05	0.16	44.38	-0.80

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709291855	1.31	76.00	28.30	0.21	0.21	-20.83	0.15
8709291905	2.00	58.00	27.90	0.20	0.24	-160.44	0.85
8709291915	1.59	68.00	26.80	0.31	0.39	1.90	0.00
8709291925	1.78	50.00	26.80	0.16	0.24	-32.48	0.17
8709291935	1.42	57.00	26.00	0.13	0.15	-25.36	0.56
8709291945	1.72	57.00	26.30	0.16	0.24	-23.55	0.12
8709291955	1.10	89.00	26.10	0.14	0.20	-40.63	0.35
8709292005	1.48	91.00	25.00	0.29	0.32	-43.09	0.09
8709292015	1.67	106.00	25.40	0.23	0.28	-21.74	0.07
8709292025	1.28	74.00	24.60	0.16	0.15	-21.61	0.42
8709292035	1.65	83.00	24.50	0.36	0.29	-29.50	0.08
8709292045	1.60	80.00	24.30	0.20	0.24	-15.14	0.08
8709292055	2.01	64.00	24.50	0.22	0.19	-52.92	0.54
8709292105	2.69	78.00	24.00	0.41	0.41	-20.57	0.02
8709292115	1.73	76.00	23.80	1.08	0.31	-29.89	0.07
8709292125	2.47	45.00	24.20	0.63	0.31	-69.22	0.17
8709292135	1.68	54.00	23.80	0.42	0.29	-66.63	0.19
8709292145	2.21	56.00	23.90	0.61	0.38	-96.13	0.13
8709292155	3.15	64.00	23.80	0.30	0.24	-40.50	0.22
8709292205	2.12	53.00	23.70	0.24	0.23	-10.29	0.06
8709292215	1.66	66.00	22.50	0.22	0.19	-34.42	0.37
8709292225	1.53	75.00	22.50	0.25	0.21	-15.01	0.12
8709292235	1.31	97.00	22.10	0.50	0.51	-49.68	0.03
8709292245	0.12	285.50	20.80	0.38	0.43	-524.02	0.46
8709292255	0.43	91.00	21.20	0.59	0.50	-80.35	0.05
8709292305	0.51	80.00	20.50	0.56	0.53	-72.84	0.04
8709292315	0.83	48.00	19.90	0.50	0.43	-251.01	0.23
8709292325	1.43	80.00	19.30	0.06	0.12	-3.30	0.13
8709292335	1.47	51.00	20.20	0.07	0.08	-11.49	1.51
8709292345	2.06	82.00	19.60	0.25	0.33	-1.95	0.00
8709292355	2.03	79.00	19.60	0.20	0.23	-45.54	0.29
8709300005	1.14	55.00	19.40	0.48	0.31	-70.39	0.18
8709300015	1.88	61.00	19.70	0.11	0.18	-36.62	0.48
8709300025	2.13	79.00	19.80	0.14	0.13	-23.16	0.68
8709300035	1.76	55.00	19.10	0.38	0.46	-39.46	0.03
8709300045	0.96	55.00	19.10	0.32	0.38	-43.73	0.06
8709300055	1.16	53.00	19.20	0.11	0.13	-12.08	0.42
8709300105	0.50	51.00	19.10	0.16	0.21	-36.36	0.29
8709300115	1.33	45.00	19.30	0.14	0.25	-38.43	0.18
8709300125	0.23	27.00	18.40	0.12	0.25	-117.22	0.52
8709300135	0.76	71.00	18.70	0.17	0.22	-61.85	0.45
8709300145	0.98	41.00	18.90	0.10	0.15	-8.72	0.20
8709300155	0.34	51.00	18.70	0.17	0.28	-30.15	0.10
8709300205	0.48	38.00	18.80	0.25	0.34	-104.80	0.20
8709300215	0.34	91.00	18.50	0.18	0.30	-27.82	0.08
8709300225	0.74	63.00	19.10	0.20	0.30	-34.42	0.09
8709300235	1.12	61.00	19.10	0.07	0.17	-19.54	0.31
8709300245	0.83	69.00	19.10	0.10	0.15	-20.31	0.43
8709300255	1.45	53.00	19.30	0.12	0.10	-12.16	1.00
8709300305	1.39	57.00	19.00	0.18	0.17	-9.34	0.15
8709300315	1.36	66.00	19.00	0.33	0.34	-33.51	0.06
8709300325	1.19	55.00	18.40	0.09	0.12	-20.83	0.87
8709300335	1.58	55.00	18.10	0.05	0.07	-5.30	1.03
8709300345	1.07	51.00	18.30	0.12	0.16	0.21	0.00
8709300355	0.54	29.00	17.70	0.09	0.17	-67.28	1.06
8709300405	0.79	22.00	17.60	0.17	0.32	-31.57	0.07
8709300415	1.20	52.00	17.30	0.09	0.23	-14.10	0.08
8709300425	0.42	47.00	17.50	0.12	0.21	-57.32	0.48
8709300435	0.94	41.00	17.30	0.08	0.09	-44.25	3.94
8709300445	1.24	33.00	17.40	0.07	0.09	9.85	-1.14
8709300455	0.98	53.00	16.70	0.05	0.09	-14.75	1.28
8709300505	0.83	41.00	16.90	0.08	0.14	-16.56	0.40

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709300535	0.51	0.50	16.80	0.24	0.31	-84.23	0.21
8709300545	0.55	73.00	17.20	0.29	0.51	-107.26	0.06
8709300555	0.94	41.00	17.20	0.05	0.11	-21.22	1.34
8709300605	0.18	219.10	16.60	0.13	0.31	91.22	-0.23
8709300615	0.36	218.10	16.50	0.07	0.14	-1.80	0.05
8709300625	1.27	45.00	17.40	0.14	0.21	-9.57	0.08
8709300635	1.18	40.00	17.30	0.06	0.10	0.69	-0.05
8709300645	1.33	57.00	17.10	0.18	0.22	-57.32	0.38
8709300655	1.42	72.00	17.10	0.14	0.12	-7.34	0.30
8709300705	1.14	55.00	17.20	0.07	0.19	-6.31	0.06
8709300715	1.14	36.00	17.30	0.11	0.14	2.68	-0.07
8709300725	1.01	72.00	17.00	0.16	0.16	-20.05	0.39
8709300735	0.33	109.00	16.60	0.23	0.30	-21.35	0.06
8709300745	0.16	103.00	17.10	0.09	0.22	-7.74	0.05
8709300755	0.47	46.00	17.40	0.10	0.18	-33.12	0.42
8709300805	0.30	53.00	17.70	0.09	0.17	-2.96	0.04
8709300815	0.63	61.00	18.00	0.07	0.18	-4.27	0.05
8709300825	0.26	121.00	18.70	0.05	0.19	13.59	-0.14
8709300835	0.68	215.30	19.90	0.04	0.18	4.31	-0.06
8709300845	0.25	117.00	20.80	0.07	0.18	-8.16	0.11
8709300855	0.57	32.00	21.70	0.07	0.12	16.95	-0.65
8709300905	0.29	304.60	22.60	0.06	0.11	18.37	-1.13
8709300915	0.64	229.60	23.50	0.10	0.16	13.84	-0.23
8709300925	0.58	183.10	24.60	0.10	0.19	105.45	-1.14
8709300935	0.99	285.90	25.60	0.12	0.20	25.36	-0.22
8709300945	3.11	259.50	26.40	0.42	0.42	20.18	-0.02
8709300955	2.80	275.30	26.60	0.35	0.38	43.99	-0.06
8709301005	3.11	263.10	26.30	0.32	0.22	50.33	-0.32
8709301015	2.95	257.40	26.50	0.42	0.32	74.79	-0.17
8709301025	2.86	255.80	27.00	0.22	0.17	60.94	-0.01
8709301035	1.68	247.30	27.70	0.27	0.27	152.68	-0.52
8709301045	1.82	224.20	28.20	0.27	0.18	111.14	-1.41
8709301055	1.69	224.60	28.70	0.28	0.17	95.23	-1.26
8709301105	1.45	226.20	29.60	0.23	0.27	147.50	-0.55
8709301115	2.04	202.10	30.20	0.24	0.29	76.60	-0.22
8709301125	2.97	248.10	31.10	0.56	0.58	129.39	-0.05
8709301135	3.20	259.00	31.10	0.32	0.26	98.85	-0.40
8709301145	3.33	255.00	31.30	0.33	0.20	98.46	-0.91
8709301155	3.50	255.30	31.70	0.31	0.15	94.06	-2.11
8709301205	3.45	248.70	31.90	0.45	0.29	94.06	-0.27
8709301215	3.11	255.70	32.30	0.87	0.42	164.32	-0.15
8709301225	1.96	280.50	32.90	1.15	0.42	148.80	-0.14
8709301235	1.79	263.70	33.40	0.92	0.55	183.73	-0.08
8709301245	1.44	263.70	33.80	1.27	0.90	229.01	-0.02
8709301255	3.40	256.60	33.90	1.05	0.50	157.85	-0.09
8709301305	3.86	247.50	33.80	0.48	0.15	103.51	-1.97
8709301315	3.48	260.50	34.10	0.59	0.43	98.20	-0.09
8709301325	3.59	255.00	34.60	0.90	0.58	182.44	-0.07
8709301335	2.84	253.20	34.90	0.50	0.26	157.85	-0.59
8709301345	3.00	241.90	35.20	0.43	0.16	179.85	-2.94
8709301355	3.00	234.60	35.40	0.72	0.51	174.67	-0.09
8709301405	2.95	239.10	35.60	0.56	0.48	174.67	-0.11
8709301415	3.18	245.60	35.70	0.83	0.19	112.05	-1.09
8709301425	2.82	252.90	35.90	0.61	0.24	177.26	-0.83
8709301435	2.96	254.30	36.10	0.62	0.50	135.86	-0.07
8709301445	3.90	251.40	36.20	0.84	0.30	127.58	-0.32
8709301455	4.13	257.10	36.10	0.86	0.50	93.03	-0.05
8709301505	3.47	254.20	36.30	0.49	0.47	124.73	-0.08
8709301515	3.66	246.70	36.30	0.61	0.27	98.46	-0.36
8709301525	2.12	263.20	36.40	1.61	0.99	113.73	-0.01
8709301535	2.22	257.50	36.40	0.74	0.50	105.71	-0.06
8709301545	2.61	271.30	36.40	1.35	0.87	57.45	-0.01

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8709301615	2.21	258.50	36.70	1.05	0.69	79.31	-0.02
8709301625	1.59	285.10	36.80	0.95	0.54	33.90	-0.01
8709301635	2.10	274.90	36.70	0.59	0.55	58.09	-0.02
8709301645	2.17	265.40	36.60	0.38	0.24	27.69	-0.14
8709301655	1.79	262.00	36.60	0.40	0.23	23.42	-0.14
8709301705	2.13	243.20	36.60	0.29	0.28	28.85	-0.09
8709301715	1.67	207.00	36.60	0.17	0.25	17.08	-0.07
8709301725	1.95	260.50	36.50	0.34	0.47	11.09	-0.01
8709301735	1.47	267.90	36.10	0.08	0.14	-2.17	0.06
8709301745	1.31	262.70	35.20	0.10	0.22	2.54	-0.02
8709301755	1.13	261.20	34.60	0.09	0.14	34.42	-0.80
8709301805	1.09	238.30	33.80	0.05	0.14	-16.43	0.38
8709301815	0.25	14.00	32.50	0.19	0.39	-3.64	0.00
8709301825	0.59	77.00	32.40	0.08	0.14	-1.58	0.04
8709301835	1.27	72.00	30.50	0.18	0.31	16.56	-0.04
8709301845	1.27	85.00	30.20	0.29	0.42	-24.32	0.02
8709301855	1.19	59.00	28.20	0.09	0.14	-40.37	0.99
8709301905	1.09	65.00	28.20	0.16	0.16	-49.17	0.88
8709301915	1.34	41.00	27.50	0.16	0.23	-16.69	0.10
8709301925	1.03	45.00	27.20	0.06	0.16	-12.94	0.21
8709301935	0.91	23.00	27.00	0.04	0.11	-3.17	0.19
8709301945	1.25	37.00	26.10	0.09	0.24	-11.00	0.05
8709301955	0.91	55.00	25.80	0.08	0.16	-36.49	0.69
8709302005	0.91	89.00	25.60	0.14	0.22	-48.78	0.32
8709302015	1.12	89.00	25.40	0.21	0.19	-23.55	0.24
8709302025	1.02	88.00	25.10	0.17	0.27	-27.56	0.10
8709302035	0.68	101.00	25.10	0.17	0.24	-26.91	0.14
8709302045	0.59	98.00	24.30	0.23	0.34	-52.40	0.10
8709302055	0.77	86.00	24.40	0.27	0.18	-29.24	0.34
8709302105	2.25	85.00	24.70	0.33	0.25	-31.70	0.14
8709302115	0.97	97.00	24.00	0.12	0.16	-15.27	0.26
8709302125	0.98	89.00	23.80	0.17	0.21	-28.47	0.23
8709302135	0.74	76.00	24.00	0.18	0.18	-48.65	0.61
8709302145	0.90	47.00	23.80	0.30	0.34	-12.76	0.02
8709302155	0.91	75.00	22.80	0.28	0.38	6.21	-0.01
8709302205	1.18	63.00	22.70	0.16	0.19	-18.76	0.20
8709302215	2.10	49.00	23.10	0.41	0.49	-19.15	0.01
8709302225	1.01	70.00	22.10	0.65	0.63	-101.31	0.03
8709302235	1.12	122.00	21.50	0.10	0.15	19.15	-0.40
8709302245	0.86	32.00	22.20	0.38	0.28	-86.56	0.28
8709302255	1.37	78.00	22.20	0.28	0.21	-53.70	0.44
8709302305	1.06	70.00	22.70	0.26	0.31	-91.48	0.22
8709302315	2.28	78.00	22.80	0.38	0.42	-24.45	0.02
8709302325	4.08	73.00	23.60	0.36	0.35	-35.71	0.06
8709302335	3.16	60.00	23.60	0.51	0.49	-23.03	0.01
8709302345	2.15	71.00	23.70	1.19	0.50	-182.44	0.10
8709302355	0.40	96.00	22.50	0.35	0.48	-25.75	0.02
8710010005	1.38	50.00	22.50	0.21	0.25	-13.46	0.06
8710010015	1.32	71.00	22.00	0.13	0.12	-14.36	0.56
8710010025	0.87	56.00	22.20	0.30	0.28	-31.96	0.10
8710010035	1.98	72.00	22.10	0.15	0.19	-19.54	0.19
8710010045	2.02	51.00	22.10	0.12	0.14	-14.36	0.40
8710010055	1.79	74.00	21.70	0.26	0.24	-24.07	0.12
8710010105	2.11	60.00	22.10	0.13	0.37	0.00	0.00
8710010115	*****						
8710010125	*****						
8710010135	*****						
8710010145	*****						
8710010155	*****						
8710010205	*****						
8710010215	*****						
8710010225	*****						

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710010255	*****						
8710010305	*****						
8710010315	*****						
8710010325	*****						
8710010335	*****						
8710010345	*****						
8710010355	*****						
8710010405	*****						
8710010415	*****						
8710010425	*****						
8710010435	*****						
8710010445	*****						
8710010455	*****						
8710010505	*****						
8710010515	*****						
8710010525	*****						
8710010535	*****						
8710010545	*****						
8710010555	*****						
8710010605	*****						
8710010615	*****						
8710010625	*****						
8710010635	*****						
8710010645	1.07	40.00	18.80	0.20	0.29	-13.84	0.04
8710010655	0.77	92.00	18.20	0.24	0.19	-41.15	0.45
8710010705	0.41	76.00	18.60	0.09	0.20	-38.69	0.34
8710010715	1.46	45.00	18.50	0.32	0.39	-54.21	0.07
8710010725	0.85	73.00	18.60	0.24	0.26	-55.90	0.23
8710010735	1.14	65.00	18.40	0.21	0.23	-4.52	0.03
8710010745	1.49	66.00	18.20	0.19	0.31	-6.18	0.01
8710010755	0.68	67.00	18.60	0.21	0.38	-56.41	0.08
8710010805	0.46	103.00	19.00	0.36	0.46	-12.94	0.01
8710010815	0.88	47.00	19.00	0.26	0.41	-13.33	0.01
8710010825	0.15	224.50	19.70	0.05	0.12	2.15	-0.09
8710010835	0.53	320.20	20.50	0.40	0.60	-5.16	0.00
8710010845	0.30	151.00	21.50	0.68	0.67	-2.37	0.00
8710010855	0.55	201.90	22.40	0.09	0.14	-8.28	0.20
8710010905	0.14	66.00	23.60	0.11	0.16	45.93	-0.86
8710010915	0.44	5.10	24.40	0.30	0.38	25.36	-0.03
8710010925	1.04	206.20	25.40	0.16	0.25	37.65	-0.17
8710010935	2.06	234.50	26.20	0.31	0.37	53.18	-0.08
8710010945	2.15	235.10	27.30	0.33	0.34	8.27	-0.02
8710010955	2.19	259.50	28.10	0.50	0.23	60.55	-0.36
8710011005	2.35	267.00	28.50	0.87	0.72	52.92	-0.01
8710011015	3.00	262.60	28.60	0.36	0.29	63.27	-0.19
8710011025	2.28	260.70	29.00	0.43	0.23	71.94	-0.43
8710011035	2.66	260.50	29.30	0.31	0.17	84.75	-1.15
8710011045	3.79	262.40	29.30	0.51	0.32	135.86	-0.28
8710011055	2.61	258.00	29.60	0.43	0.24	63.14	-0.32
8710011105	3.20	264.60	30.10	0.34	0.16	102.09	-1.81
8710011115	3.28	266.20	30.40	0.38	0.22	85.40	-0.53
8710011125	3.48	274.80	30.80	0.87	0.40	142.33	-0.16
8710011135	3.05	268.90	31.30	0.51	0.21	125.51	-1.01
8710011145	3.45	261.30	31.50	0.53	0.42	166.91	-0.16
8710011155	4.02	263.10	31.40	0.62	0.31	107.52	-0.24
8710011205	4.05	270.60	31.50	0.61	0.28	131.97	-0.42
8710011215	3.80	267.60	31.70	0.71	0.50	71.94	-0.04
8710011225	3.76	262.80	31.80	0.57	0.37	135.86	-0.18
8710011235	3.21	264.40	32.30	0.99	0.63	165.62	-0.05
8710011245	3.36	271.40	32.30	0.66	0.39	161.73	-0.18
8710011255	2.57	275.40	32.80	0.67	0.50	170.79	-0.09
8710011305	3.00	264.50	33.30	0.46	0.28	192.79	-0.60

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710011335	2.76	268.80	33.90	1.33	0.54	192.79	-0.08
8710011345	2.99	276.40	34.10	1.18	0.40	174.67	-0.19
8710011355	2.65	271.10	34.20	1.03	0.39	199.26	-0.24
8710011405	4.19	269.60	34.20	0.80	0.25	131.97	-0.57
8710011415	3.05	273.20	34.30	1.03	0.60	181.14	-0.06
8710011425	3.74	234.30	34.60	0.70	0.16	218.66	-3.71
8710011435	2.97	220.80	34.50	1.02	0.36	156.56	-0.24
8710011445	2.87	256.50	34.90	0.76	0.52	148.80	-0.07
8710011455	3.63	211.10	34.70	0.94	0.60	99.76	-0.03
8710011505	3.19	242.10	35.00	0.71	0.37	108.94	-0.14
8710011515	3.40	256.00	35.30	0.87	0.56	146.21	-0.06
8710011525	2.72	224.70	35.50	1.21	0.72	142.33	-0.03
8710011535	4.59	233.20	35.30	0.71	0.32	96.13	-0.20
8710011545	3.95	235.10	35.70	1.34	0.64	130.68	-0.03
8710011555	2.93	215.90	35.80	1.56	0.85	147.50	-0.02
8710011605	3.20	206.70	35.70	1.09	0.30	89.15	-0.22
8710011615	3.28	216.10	35.60	1.86	1.06	81.64	0.00
8710011625	4.56	236.70	35.30	0.80	0.33	44.51	-0.08
8710011635	4.00	234.10	35.30	0.79	0.37	50.85	-0.07
8710011645	2.56	219.20	35.30	1.25	0.56	44.64	-0.02
8710011655	3.33	227.50	35.10	1.65	0.85	52.27	-0.01
8710011705	2.21	222.90	35.00	1.00	0.49	24.45	-0.01
8710011715	2.04	236.60	35.00	0.80	0.43	23.68	-0.02
8710011725	1.76	204.70	34.90	0.86	0.63	7.44	0.00
8710011735	0.77	259.10	34.70	0.97	0.64	-5.02	0.00
8710011745	1.31	232.60	34.60	0.73	0.51	-8.80	0.00
8710011755	0.44	217.20	34.50	0.52	0.43	5.30	0.00
8710011805	0.53	296.70	33.80	0.55	0.56	-135.86	0.05
8710011815	0.26	318.20	32.70	0.26	0.35	-46.97	0.08
8710011825	0.74	214.00	31.50	0.11	0.22	-69.61	0.43
8710011835	0.63	70.00	29.70	0.33	0.38	245.84	-0.32
8710011845	1.48	78.00	28.90	0.12	0.22	-13.07	0.08
8710011855	0.81	75.00	27.80	0.21	0.14	33.12	-0.80
8710011905	0.99	80.00	27.30	0.15	0.17	-9.37	0.13
8710011915	1.86	57.00	27.30	0.19	0.12	-3.40	0.13
8710011925	1.58	53.00	26.40	0.15	0.22	-11.59	0.08
8710011935	1.75	69.00	26.50	0.26	0.18	-8.40	0.10
8710011945	1.31	44.00	26.00	0.22	0.34	-18.24	0.03
8710011955	0.97	78.00	25.00	0.22	0.25	-59.26	0.28
8710012005	0.70	46.00	24.90	0.25	0.41	-54.99	0.06
8710012015	0.60	40.00	24.60	0.25	0.26	-31.44	0.13
8710012025	0.81	50.00	24.70	0.07	0.15	-11.20	0.24
8710012035	1.97	61.00	25.00	0.08	0.15	-5.49	0.13
8710012045	1.89	57.00	24.00	0.22	0.17	-41.53	0.61
8710012055	1.05	82.00	23.70	0.12	0.20	-24.97	0.22
8710012105	1.29	100.00	23.40	0.16	0.15	-32.22	0.70
8710012115	2.60	80.00	23.50	0.76	0.58	-32.86	0.01
8710012125	3.97	70.00	24.50	0.42	0.29	-47.49	0.14
8710012135	4.21	61.00	24.60	0.42	0.31	-27.95	0.07
8710012145	4.30	61.00	24.70	0.28	0.20	-21.22	0.18
8710012155	2.43	70.00	23.90	1.25	0.67	-64.95	0.02
8710012205	0.71	72.00	23.30	0.40	0.35	-36.93	0.06
8710012215	1.38	78.00	23.00	0.15	0.27	-28.98	0.11
8710012225	0.78	89.00	22.60	0.14	0.19	-15.91	0.18
8710012235	0.70	82.00	22.20	0.14	0.21	-53.31	0.42
8710012245	0.30	195.60	21.70	0.14	0.31	23.68	-0.06
8710012255	1.10	230.70	21.10	0.08	0.16	-50.20	0.97
8710012305	0.21	333.30	20.50	0.19	0.18	8.42	-0.11
8710012315	0.21	93.00	21.10	0.04	0.12	2.35	-0.11
8710012325	0.71	51.00	20.90	0.10	0.17	0.04	0.00
8710012335	0.58	43.00	20.80	0.12	0.30	-6.08	0.02
8710012345	0.97	50.00	21.00	0.09	0.25	-10.76	0.05

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710020015	1.07	53.00	20.10	0.03	0.05	-3.52	2.11
8710020025	0.48	351.90	20.30	0.20	0.29	-73.75	0.22
8710020035	0.64	46.00	19.90	0.10	0.19	-26.65	0.27
8710020045	0.83	49.00	19.70	0.04	0.07	-12.78	2.44
8710020055	0.68	61.00	19.60	0.07	0.19	-19.15	0.22
8710020105	1.06	55.00	19.80	0.06	0.11	-14.23	0.89
8710020115	1.00	48.00	19.40	0.16	0.30	-40.76	0.11
8710020125	0.75	58.00	19.40	0.06	0.16	-3.44	0.06
8710020135	1.01	64.00	19.10	0.14	0.25	7.49	-0.04
8710020145	0.90	55.00	19.10	0.07	0.11	-7.23	0.43
8710020155	1.31	51.00	18.90	0.09	0.17	18.63	-0.28
8710020205	1.01	62.00	19.40	0.15	0.27	-17.98	0.06
8710020215	0.17	15.00	18.60	0.13	0.32	-33.12	0.07
8710020225	0.32	327.80	18.90	0.10	0.09	2.89	-0.26
8710020235	0.69	40.00	19.50	0.10	0.15	-28.72	0.59
8710020245	1.00	58.00	19.20	0.14	0.14	-30.79	0.87
8710020255	0.25	85.00	18.90	0.28	0.46	29.11	-0.02
8710020305	0.70	38.00	18.90	0.12	0.20	-16.43	0.14
8710020315	0.96	48.00	18.50	0.17	0.23	-14.88	0.08
8710020325	0.29	49.00	18.30	0.24	0.42	-45.29	0.04
8710020335	0.47	293.50	18.70	0.03	0.05	-6.77	3.33
8710020345	0.92	62.00	18.50	0.09	0.16	-10.98	0.18
8710020355	0.69	30.00	18.10	0.11	0.21	-23.94	0.18
8710020405	1.00	68.00	17.50	0.08	0.21	-0.19	0.00
8710020415	0.19	46.00	17.80	0.07	0.23	-55.77	0.34
8710020425	0.65	42.00	17.60	0.21	0.21	-22.51	0.18
8710020435	0.76	50.00	17.50	0.08	0.14	-2.07	0.05
8710020445	0.79	43.00	17.30	0.09	0.15	-16.04	0.38
8710020455	0.67	60.00	16.20	0.07	0.19	-0.52	0.01
8710020505	0.44	30.00	16.60	0.15	0.26	-34.03	0.15
8710020515	0.55	84.00	16.70	0.12	0.30	13.84	-0.04
8710020525	1.07	60.00	16.60	0.04	0.09	-4.88	0.52
8710020535	0.58	25.00	17.00	0.03	0.12	-4.35	0.17
8710020545	0.78	49.00	16.60	0.11	0.12	-22.13	0.95
8710020555	0.81	68.00	16.50	0.11	0.23	-24.32	0.15
8710020605	1.28	50.00	16.30	0.04	0.06	-16.95	6.33
8710020615	0.75	47.00	16.50	0.11	0.16	-7.97	0.14
8710020625	0.40	5.40	16.60	0.14	0.21	11.30	-0.09
8710020635	0.53	337.70	16.70	0.03	0.07	1.08	-0.25
8710020645	0.37	285.00	17.00	0.23	0.32	9.25	-0.02
8710020655	0.59	4.70	16.90	0.15	0.14	-34.42	0.99
8710020705	0.18	337.50	17.30	0.08	0.17	-18.63	0.28
8710020715	0.66	14.00	17.40	0.04	0.06	-2.65	0.73
8710020725	0.81	56.00	17.70	0.05	0.12	-12.40	0.58
8710020735	1.50	70.00	17.70	0.06	0.09	-6.30	0.56
8710020745	1.45	65.00	17.30	0.06	0.14	-9.17	0.25
8710020755	0.85	76.00	17.20	0.13	0.16	-31.83	0.62
8710020805	0.68	88.00	17.50	0.08	0.13	18.76	-0.69
8710020815	0.32	14.00	18.30	0.02	0.04	-1.44	1.73
8710020825	0.18	239.10	18.60	0.04	0.14	8.91	-0.21
8710020835	0.26	165.00	19.60	0.03	0.10	23.16	-1.70
8710020845	0.10	265.50	20.60	0.03	0.08	-17.98	2.91
8710020855	0.45	265.40	21.50	0.05	0.09	26.91	-2.41
8710020905	0.17	290.20	22.40	0.06	0.07	43.73	-10.49
8710020915	0.33	235.90	23.20	0.14	0.27	41.27	-0.15
8710020925	1.24	252.90	24.40	0.14	0.19	51.50	-0.50
8710020935	2.21	261.50	25.60	0.42	0.53	23.12	-0.02
8710020945	2.06	253.30	25.70	0.38	0.50	33.77	-0.02
8710020955	2.66	254.60	26.00	0.24	0.25	74.27	-0.35
8710021005	2.68	248.70	26.20	0.24	0.21	83.97	-0.64
8710021015	3.16	255.70	26.50	0.31	0.22	110.63	-0.75
8710021025	3.30	261.70	26.30	0.35	0.20	95.62	-0.84

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710021055	2.34	246.00	26.70	0.15	0.15	83.97	-1.63
8710021105	2.30	240.30	27.40	0.28	0.35	76.47	-0.13
8710021115	2.14	238.70	28.10	0.40	0.19	120.07	-1.18
8710021125	1.57	239.30	28.90	0.60	0.38	194.08	-0.24
8710021135	1.47	304.60	29.20	1.31	0.82	111.53	-0.01
8710021145	2.48	259.10	29.70	1.10	0.79	187.61	-0.03
8710021155	2.73	261.80	30.20	0.79	0.47	191.49	-0.13
8710021205	2.83	263.90	30.20	0.91	0.57	219.96	-0.08
8710021215	3.19	243.60	30.30	0.38	0.33	103.90	-0.20
8710021225	3.15	251.40	30.70	0.64	0.12	175.97	-7.12
8710021235	3.45	259.90	31.00	0.66	0.44	161.73	-0.13
8710021245	2.07	250.00	31.50	0.90	0.61	309.23	-0.09
8710021255	1.64	246.50	31.60	0.67	0.38	148.80	-0.19
8710021305	2.20	228.30	32.40	0.73	0.58	234.19	-0.08
8710021315	0.42	279.40	32.60	0.72	0.17	128.61	-1.98
8710021325	2.58	261.70	33.30	1.64	0.65	258.77	-0.07
8710021335	2.62	267.90	33.20	1.17	0.31	137.15	-0.31
8710021345	3.01	276.30	33.20	0.94	0.54	111.40	-0.05
8710021355	3.92	271.80	33.20	0.53	0.41	53.31	-0.05
8710021405	3.59	274.40	33.10	0.53	0.36	109.46	-0.17
8710021415	2.26	282.60	33.60	0.83	0.65	106.10	-0.03
8710021425	1.14	14.00	34.20	0.60	0.50	157.85	-0.09
8710021435	1.26	228.20	34.70	1.00	0.46	103.25	-0.07
8710021445	3.11	231.10	35.00	1.21	0.39	194.08	-0.22
8710021455	2.67	253.60	34.90	1.68	1.01	178.55	-0.01
8710021505	2.60	247.30	35.10	1.33	0.81	218.66	-0.03
8710021515	3.31	236.40	35.40	2.42	0.60	207.02	-0.06
8710021525	1.40	196.20	35.30	1.20	0.52	101.96	-0.05
8710021535	3.12	222.00	35.60	2.02	0.39	156.56	-0.19
8710021545	3.73	232.40	35.60	1.90	0.58	168.20	-0.06
8710021555	2.89	194.30	35.70	1.53	0.47	62.88	-0.04
8710021605	2.09	184.60	35.90	1.90	0.39	129.39	-0.15
8710021615	3.01	217.90	35.80	2.45	1.00	82.81	-0.01
8710021625	2.59	224.30	36.00	0.76	0.51	101.96	-0.05
8710021635	2.77	212.70	35.90	1.61	0.88	68.06	-0.01
8710021645	2.87	195.70	35.70	1.02	0.44	54.60	-0.04
8710021655	3.43	228.40	35.70	1.58	0.50	29.76	-0.02
8710021705	4.07	230.10	35.60	1.33	0.65	47.23	-0.01
8710021715	2.61	227.00	35.50	0.78	0.37	30.15	-0.04
8710021725	3.25	228.40	35.30	0.63	0.34	5.49	-0.01
8710021735	3.80	237.90	35.00	0.65	0.46	-3.52	0.00
8710021745	3.13	234.20	34.80	0.53	0.25	-14.36	0.06
8710021755	3.29	239.00	34.20	0.48	0.28	-19.15	0.06
8710021805	4.37	240.20	33.60	0.57	0.40	-13.20	0.01
8710021815	2.94	228.60	32.90	0.44	0.42	-13.59	0.01
8710021825	2.08	242.40	32.00	0.90	0.83	-36.75	0.00
8710021835	1.37	313.90	31.80	0.25	0.29	-16.43	0.04
8710021845	0.42	353.50	30.20	0.77	0.80	-412.74	0.06
8710021855	0.47	146.00	29.10	0.21	0.29	-168.20	0.49
8710021905	1.06	46.00	27.60	0.22	0.21	-4.53	0.03
8710021915	0.94	67.00	26.60	0.13	0.19	-26.52	0.29
8710021925	1.11	68.00	26.20	0.16	0.23	-8.49	0.05
8710021935	0.85	56.00	25.70	0.21	0.35	10.25	-0.02
8710021945	1.61	37.00	26.20	0.15	0.18	-75.56	0.91
8710021955	1.75	62.00	26.20	0.23	0.38	-33.38	0.04
8710022005	0.87	80.00	25.80	0.14	0.22	-36.10	0.24
8710022015	0.81	48.00	24.70	0.38	0.24	-78.54	0.40
8710022025	0.41	121.00	24.90	0.72	0.57	153.56	-0.06
8710022035	2.15	60.00	26.00	0.57	0.55	-42.31	0.02
8710022045	1.45	55.00	25.40	0.28	0.33	-69.22	0.14
8710022055	0.42	73.00	24.20	0.24	0.28	-32.61	0.11
8710022105	0.70	194.40	24.50	0.15	0.12	-22.38	0.98

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710022135	0.46	91.00	22.70	0.39	0.31	-42.70	0.10
8710022145	1.55	68.00	23.40	0.08	0.20	-14.49	0.13
8710022155	0.85	55.00	22.00	0.20	0.25	3.01	-0.01
8710022205	0.75	107.00	22.10	0.21	0.35	-3.04	0.01
8710022215	1.40	59.00	21.00	0.09	0.16	-16.95	0.30
8710022225	2.05	61.00	21.20	0.19	0.15	-23.29	0.52
8710022235	0.98	58.00	20.80	0.18	0.32	-20.83	0.04
8710022245	1.40	42.00	20.00	0.12	0.19	-27.56	0.29
8710022255	0.98	47.00	20.00	0.21	0.29	8.69	-0.03
8710022305	1.14	48.00	20.30	0.18	0.35	-7.70	0.01
8710022315	1.06	64.00	20.50	0.17	0.25	-12.91	0.06
8710022325	1.41	49.00	20.50	0.06	0.12	-3.27	0.16
8710022335	1.03	70.00	20.20	0.27	0.40	-34.68	0.04
8710022345	0.87	80.00	19.80	0.35	0.32	-75.69	0.17
8710022355	1.00	49.00	20.10	0.14	0.15	-27.95	0.63
8710030005	1.00	56.00	20.30	0.21	0.16	-31.70	0.55
8710030015	0.98	62.00	20.20	0.15	0.30	-20.70	0.05
8710030025	0.97	50.00	20.10	0.10	0.21	-23.55	0.20
8710030035	0.31	77.00	19.80	0.08	0.16	-32.35	0.56
8710030045	1.32	60.00	20.10	0.05	0.08	-1.23	0.18
8710030055	0.98	56.00	20.10	0.06	0.10	-8.45	0.54
8710030105	1.32	58.00	20.10	0.07	0.12	-18.11	0.73
8710030115	0.62	49.00	19.80	0.14	0.19	-6.53	0.06
8710030125	0.26	340.50	19.60	0.11	0.29	-76.34	0.24
8710030135	0.40	359.10	19.80	0.06	0.12	-37.00	1.65
8710030145	0.74	71.00	19.60	0.14	0.33	-18.89	0.04
8710030155	0.84	63.00	19.70	0.09	0.14	-6.17	0.16
8710030205	0.91	59.00	19.50	0.12	0.17	-9.24	0.13
8710030215	0.35	53.00	19.10	0.07	0.15	-17.21	0.37
8710030225	0.47	11.00	19.70	0.03	0.09	-0.27	0.03
8710030235	0.68	29.00	19.20	0.05	0.09	-6.34	0.75
8710030245	0.91	62.00	19.40	0.11	0.10	-10.33	0.74
8710030255	1.04	39.00	19.30	0.07	0.17	-1.88	0.03
8710030305	0.66	41.00	19.10	0.06	0.10	-12.38	0.79
8710030315	0.86	48.00	19.40	0.07	0.11	-16.04	0.86
8710030325	0.65	53.00	18.90	0.06	0.15	1.22	-0.02
8710030335	1.01	54.00	19.10	0.07	0.18	-9.10	0.11
8710030345	1.18	60.00	19.00	0.11	0.20	-16.17	0.14
8710030355	0.96	45.00	18.80	0.16	0.26	-20.96	0.09
8710030405	0.82	72.00	18.40	0.24	0.37	-37.91	0.06
8710030415	1.25	49.00	18.40	0.07	0.12	-21.87	1.04
8710030425	1.25	59.00	18.30	0.16	0.24	-9.25	0.05
8710030435	1.19	44.00	18.10	0.05	0.07	-6.43	1.38
8710030445	1.07	56.00	17.90	0.17	0.27	-6.31	0.02
8710030455	0.87	60.00	17.90	0.16	0.20	-23.16	0.21
8710030505	0.30	58.00	18.00	0.19	0.35	-66.89	0.11
8710030515	0.25	18.00	17.90	0.13	0.26	-23.03	0.10
8710030525	1.01	34.00	18.00	0.10	0.08	-16.56	2.52
8710030535	1.03	63.00	18.00	0.26	0.36	-4.17	0.01
8710030545	0.53	225.10	17.20	0.08	0.13	-4.23	0.13
8710030555	0.65	32.00	17.80	0.14	0.17	-9.10	0.15
8710030605	0.71	28.00	18.00	0.03	0.10	-0.07	0.00
8710030615	0.18	108.00	17.40	0.06	0.13	10.56	-0.33
8710030625	0.86	69.00	16.70	0.11	0.23	10.79	-0.06
8710030635	1.23	56.00	17.00	0.08	0.14	-20.18	0.57
8710030645	0.60	53.00	17.00	0.17	0.18	17.60	-0.21
8710030655	0.27	199.30	16.60	0.15	0.30	-2.46	0.01
8710030705	0.67	59.00	16.60	0.26	0.37	18.11	-0.03
8710030715	0.55	58.00	17.10	0.14	0.25	-6.24	0.03
8710030725	0.49	264.40	17.40	0.12	0.16	18.89	-0.35
8710030735	0.35	144.00	17.60	0.31	0.45	17.86	-0.01
8710030745	0.45	42.00	18.00	0.09	0.25	-4.10	0.02

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710030815	0.38	41.00	19.00	0.03	0.04	-2.92	2.66
8710030825	0.40	183.30	18.80	0.06	0.20	14.36	-0.13
8710030835	0.33	160.00	20.20	0.17	0.35	-10.78	0.02
8710030845	0.36	201.50	21.30	0.05	0.13	12.40	-0.43
8710030855	0.21	225.90	22.20	0.09	0.13	39.72	-1.31
8710030905	0.38	241.70	22.90	0.09	0.15	-6.42	0.13
8710030915	0.99	249.00	23.70	0.30	0.44	9.68	-0.01
8710030925	3.31	248.90	24.30	0.44	0.40	37.00	-0.04
8710030935	3.78	258.80	24.50	0.60	0.45	40.50	-0.03
8710030945	3.01	246.20	24.50	0.30	0.28	64.43	-0.21
8710030955	3.03	245.90	24.80	0.16	0.11	29.24	-1.78
8710031005	2.49	246.00	25.50	0.29	0.21	53.31	-0.41
8710031015	3.01	259.10	25.80	0.52	0.39	58.61	-0.07
8710031025	2.48	233.30	26.30	0.41	0.19	115.67	-1.29
8710031035	2.07	235.40	26.70	0.26	0.24	94.06	-0.48
8710031045	2.19	233.30	27.10	0.43	0.45	85.27	-0.06
8710031055	1.97	234.00	27.80	0.22	0.20	109.98	-0.99
8710031105	1.70	226.80	28.60	0.38	0.45	196.67	-0.16
8710031115	1.11	205.00	29.30	0.31	0.36	77.37	-0.11
8710031125	1.03	258.50	29.80	0.20	0.18	76.99	-0.94
8710031135	1.60	237.20	30.70	0.43	0.27	182.44	-0.63
8710031145	2.35	260.90	31.10	0.49	0.26	141.03	-0.54
8710031155	3.26	265.70	31.40	0.52	0.42	134.56	-0.13
8710031205	3.83	268.50	31.40	0.80	0.36	98.72	-0.14
8710031215	4.28	269.00	31.60	1.59	0.85	123.95	-0.01
8710031225	3.89	261.50	31.50	1.11	0.36	157.85	-0.23
8710031235	3.22	256.60	31.60	0.90	0.23	107.00	-0.62
8710031245	2.87	248.80	31.70	0.71	0.35	80.87	-0.13
8710031255	2.87	263.80	32.20	0.55	0.11	159.15	-7.92
8710031305	2.52	278.30	32.50	0.63	0.38	143.62	-0.19
8710031315	2.80	259.30	32.70	1.19	0.47	153.97	-0.10
8710031325	2.31	296.50	33.00	1.20	0.49	160.44	-0.09
8710031335	2.58	247.40	33.30	0.99	0.57	126.54	-0.05
8710031345	2.76	268.60	33.20	1.06	0.28	127.96	-0.39
8710031355	1.80	299.70	33.80	0.56	0.34	141.03	-0.24
8710031405	2.12	254.00	33.90	1.65	0.59	225.13	-0.08
8710031415	3.01	281.60	34.00	0.88	0.69	168.20	-0.03
8710031425	2.21	277.60	34.20	0.69	0.40	122.92	-0.13
8710031435	2.57	277.20	34.80	0.84	0.59	137.15	-0.05
8710031445	2.91	283.30	34.50	1.37	0.64	128.09	-0.03
8710031455	3.30	274.70	34.70	0.74	0.37	135.86	-0.19
8710031505	3.63	266.30	34.70	1.20	0.46	102.73	-0.07
8710031515	4.00	276.00	34.80	1.07	0.44	155.26	-0.13
8710031525	3.10	262.10	35.00	0.87	0.45	121.62	-0.09
8710031535	2.21	271.50	35.00	0.98	0.57	73.23	-0.03
8710031545	3.39	273.70	34.90	0.78	0.38	56.28	-0.07
8710031555	2.89	272.20	35.00	0.39	0.27	75.30	-0.27
8710031605	1.67	323.10	34.90	0.89	0.45	20.44	-0.02
8710031615	2.91	286.60	35.20	1.31	0.53	60.16	-0.03
8710031625	3.53	318.20	35.00	1.22	0.65	75.30	-0.02
8710031635	3.63	303.00	34.90	0.77	0.46	9.78	-0.01
8710031645	2.75	272.90	34.90	3.32	1.34	37.00	0.00
8710031655	4.03	248.90	34.70	0.47	0.17	26.14	-0.38
8710031705	2.98	237.70	34.70	0.39	0.21	36.36	-0.26
8710031715	2.38	242.80	34.60	0.15	0.13	6.91	-0.20
8710031725	3.18	236.90	34.40	0.24	0.26	6.87	-0.03
8710031735	2.04	225.90	34.40	0.23	0.20	-5.50	0.05
8710031745	1.83	233.20	33.90	0.36	0.38	-27.95	0.04
8710031755	1.54	216.90	33.60	0.24	0.36	-36.88	0.05
8710031805	1.17	227.80	32.80	0.29	0.21	-39.72	0.28
8710031815	0.60	19.00	31.70	0.18	0.12	5.74	-0.22
8710031825	0.18	197.40	30.70	0.05	0.11	-1.42	0.07

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710031855	1.28	74.00	27.60	0.22	0.27	7.44	-0.03
8710031905	1.84	61.00	27.20	0.17	0.33	-33.38	0.07
8710031915	1.76	38.00	27.00	0.16	0.21	-2.87	0.02
8710031925	0.18	242.00	25.90	0.43	0.51	175.97	-0.09
8710031935	1.18	25.00	26.20	0.10	0.12	-19.15	0.83
8710031945	0.82	43.00	25.30	0.13	0.25	-73.36	0.32
8710031955	0.65	75.00	25.10	0.16	0.23	-40.63	0.24
8710032005	1.32	30.00	24.80	0.18	0.20	-41.40	0.37
8710032015	0.63	85.00	24.50	0.27	0.38	-55.25	0.07
8710032025	2.16	54.00	24.80	0.18	0.16	-32.48	0.57
8710032035	2.45	84.00	24.70	0.27	0.12	-24.20	1.03
8710032045	3.65	65.00	25.20	0.28	0.29	-30.02	0.09
8710032055	3.34	63.00	25.00	0.23	0.29	-23.42	0.07
8710032105	2.56	65.00	24.60	0.35	0.33	-100.40	0.20
8710032115	3.40	68.00	24.70	0.25	0.27	-28.59	0.10
8710032125	3.53	66.00	24.30	0.19	0.20	-14.75	0.14
8710032135	3.27	69.00	24.20	0.16	0.15	-21.61	0.44
8710032145	2.25	65.00	23.70	0.42	0.43	-21.09	0.02
8710032155	1.56	65.00	23.10	0.27	0.24	5.16	-0.03
8710032205	1.69	71.00	23.10	0.26	0.25	-14.49	0.07
8710032215	1.86	93.00	22.40	0.28	0.38	-21.22	0.03
8710032225	1.21	55.00	22.90	0.18	0.23	-16.04	0.10
8710032235	1.77	61.00	22.60	0.23	0.25	-22.13	0.11
8710032245	0.75	78.00	22.20	0.29	0.44	-17.98	0.02
8710032255	0.81	64.00	22.30	0.23	0.25	-12.50	0.06
8710032305	1.32	51.00	21.90	0.11	0.12	-11.10	0.42
8710032315	1.44	51.00	21.70	0.13	0.18	-35.58	0.46
8710032325	1.06	70.00	21.00	0.08	0.14	-35.19	0.87
8710032335	0.78	32.00	20.50	0.12	0.18	-50.20	0.64
8710032345	0.75	57.00	20.60	0.30	0.35	-50.98	0.08
8710032355	0.89	62.00	20.50	0.18	0.25	-25.49	0.11
8710040005	1.02	55.00	20.50	0.12	0.13	-47.10	1.41
8710040015	0.65	70.00	20.80	0.12	0.14	-35.84	0.92
8710040025	0.95	86.00	20.50	0.09	0.15	-35.19	0.77
8710040035	0.74	73.00	20.60	0.14	0.20	-28.72	0.25
8710040045	0.99	92.00	20.10	0.15	0.15	-18.63	0.43
8710040055	1.10	55.00	20.00	0.11	0.16	-43.86	0.83
8710040105	1.15	58.00	20.20	0.09	0.14	-11.66	0.30
8710040115	0.69	65.00	19.90	0.21	0.28	-29.11	0.10
8710040125	0.73	355.70	19.60	0.10	0.12	-1.08	0.05
8710040135	0.67	22.00	19.60	0.12	0.15	-19.93	0.46
8710040145	0.74	43.00	19.90	0.10	0.14	-17.08	0.44
8710040155	1.31	68.00	20.00	0.09	0.11	-4.35	0.21
8710040205	0.70	85.00	20.00	0.12	0.18	-10.26	0.13
8710040215	0.87	58.00	19.70	0.10	0.16	-23.16	0.39
8710040225	0.80	69.00	19.70	0.15	0.22	-35.71	0.23
8710040235	0.72	22.00	19.80	0.17	0.23	-29.24	0.17
8710040245	1.06	46.00	19.90	0.04	0.06	-9.77	2.86
8710040255	0.24	37.00	19.40	0.12	0.25	-40.50	0.20
8710040305	1.16	53.00	18.90	0.08	0.18	1.37	-0.02
8710040315	0.65	72.00	19.20	0.06	0.12	-22.77	0.85
8710040325	1.00	57.00	18.50	0.05	0.12	-17.34	0.66
8710040335	1.05	48.00	18.50	0.08	0.24	-3.43	0.02
8710040345	0.52	57.00	18.10	0.32	0.49	-60.29	0.04
8710040355	1.04	57.00	18.90	0.09	0.18	-26.78	0.34
8710040405	0.80	53.00	18.60	0.07	0.16	-10.65	0.18
8710040415	0.61	86.00	18.80	0.10	0.24	-16.17	0.08
8710040425	1.00	54.00	18.90	0.13	0.11	-3.07	0.16
8710040435	0.47	124.00	18.90	0.09	0.14	-1.53	0.04
8710040445	0.98	96.00	19.20	0.08	0.14	-12.20	0.31
8710040455	1.12	59.00	17.80	0.18	0.22	33.77	-0.23
8710040505	1.00	46.00	18.80	0.13	0.19	0.09	0.00

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710040535	0.54	77.00	17.80	0.40	0.53	65.08	-0.03
8710040545	0.60	61.00	17.30	0.35	0.36	-42.31	0.07
8710040555	0.41	72.00	16.90	0.13	0.13	16.43	-0.57
8710040605	1.16	47.00	15.60	0.14	0.06	-9.92	3.94
8710040615	0.58	64.00	15.50	0.14	0.21	27.69	-0.21
8710040625	0.94	30.00	16.40	0.18	0.19	5.93	-0.07
8710040635	0.88	74.00	16.00	0.57	0.69	-23.42	0.01
8710040645	1.00	15.00	16.40	0.29	0.29	-29.50	0.09
8710040655	0.93	64.00	15.60	0.11	0.12	-12.94	0.59
8710040705	1.06	66.00	16.20	0.12	0.10	-17.98	1.53
8710040715	0.46	49.00	16.10	0.12	0.24	-74.40	0.38
8710040725	0.58	53.00	16.60	0.10	0.22	-26.01	0.17
8710040735	0.41	69.00	16.60	0.08	0.19	-105.32	1.11
8710040745	0.61	118.00	17.60	0.16	0.11	-17.86	0.86
8710040755	0.55	167.00	17.00	0.18	0.16	-65.73	1.23
8710040805	0.44	163.00	17.20	0.04	0.09	-12.67	1.29
8710040815	0.59	336.20	17.70	0.14	0.19	-6.72	0.08
8710040825	0.75	86.00	17.80	0.05	0.16	7.35	-0.12
8710040835	0.56	41.00	18.70	0.04	0.11	0.91	-0.04
8710040845	0.18	3.50	19.50	0.05	0.08	96.26	-13.59
8710040855	0.26	244.70	20.40	0.08	0.04	10.00	-12.68
8710040905	0.20	14.00	21.60	0.11	0.26	75.04	-0.31
8710040915	0.47	172.30	22.40	0.10	0.23	58.35	-0.36
8710040925	0.56	236.80	23.40	0.14	0.11	59.52	-2.99
8710040935	1.19	224.00	23.90	0.20	0.22	42.44	-0.28
8710040945	2.31	238.90	24.70	0.18	0.17	49.56	-0.73
8710040955	2.71	252.50	25.30	0.21	0.27	64.69	-0.24
8710041005	2.47	244.60	25.70	0.16	0.13	62.62	-1.89
8710041015	2.33	245.70	26.10	0.16	0.19	135.86	-1.32
8710041025	2.42	243.40	26.50	0.16	0.18	51.11	-0.58
8710041035	2.49	239.00	27.10	0.15	0.11	59.00	-2.99
8710041045	2.11	238.80	27.70	0.23	0.21	134.56	-1.08
8710041055	2.41	245.20	28.20	0.18	0.20	125.25	-1.09
8710041105	2.90	256.40	28.80	0.36	0.26	113.73	-0.45
8710041115	2.98	252.00	29.00	0.39	0.29	120.07	-0.36
8710041125	3.94	255.80	29.20	0.50	0.39	84.36	-0.10
8710041135	3.69	276.00	29.80	1.89	0.56	169.50	-0.07
8710041145	3.42	253.50	29.80	0.94	0.56	173.38	-0.07
8710041155	2.74	239.80	29.80	0.55	0.34	117.10	-0.21
8710041205	2.50	292.70	30.80	1.68	0.96	139.74	-0.01
8710041215	3.13	243.70	31.00	0.73	0.43	104.16	-0.09
8710041225	2.92	257.90	31.70	0.97	0.33	201.84	-0.40
8710041235	2.82	257.50	32.20	0.87	0.21	148.80	-1.06
8710041245	3.83	249.80	32.40	0.79	0.35	128.22	-0.20
8710041255	3.64	267.90	32.90	0.91	0.68	166.91	-0.04
8710041305	4.20	260.30	33.10	1.36	0.27	183.73	-0.62
8710041315	3.46	254.20	33.50	1.32	0.39	172.08	-0.20
8710041325	2.78	253.50	33.80	2.00	1.11	183.73	-0.01
8710041335	3.45	268.10	33.90	1.83	0.67	143.62	-0.03
8710041345	3.05	275.50	34.10	2.65	0.67	120.33	-0.03
8710041355	2.48	300.90	34.20	1.68	0.44	124.60	-0.10
8710041405	2.88	282.90	34.50	1.69	0.32	160.44	-0.33
8710041415	4.87	248.80	34.40	2.24	0.53	68.58	-0.03
8710041425	3.12	254.00	34.80	1.75	0.39	153.97	-0.18
8710041435	3.87	295.00	34.60	1.08	0.43	142.33	-0.12
8710041445	1.71	259.70	34.80	0.87	0.67	81.90	-0.02
8710041455	3.70	264.30	34.90	2.15	0.80	85.01	-0.01
8710041505	2.96	275.40	35.20	1.50	0.77	150.09	-0.02
8710041515	2.96	290.80	35.00	1.58	0.52	70.52	-0.03
8710041525	3.40	274.40	35.20	2.10	0.88	155.26	-0.02
8710041535	3.79	263.30	35.20	1.08	0.35	125.63	-0.21
8710041545	4.07	262.40	35.20	1.19	0.34	57.06	-0.10

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710041615	4.14	263.40	35.20	0.75	0.43	38.17	-0.03
8710041625	2.67	289.50	35.20	0.76	0.37	48.78	-0.06
8710041635	2.46	273.60	35.30	2.03	0.75	37.65	-0.01
8710041645	2.99	254.80	35.30	0.45	0.46	22.64	-0.02
8710041655	2.42	241.90	35.30	0.40	0.51	29.63	-0.02
8710041705	3.00	254.00	35.20	0.47	0.48	11.22	-0.01
8710041715	3.15	250.80	35.10	0.20	0.24	4.40	-0.02
8710041725	2.36	251.00	34.90	0.37	0.32	-8.29	0.02
8710041735	2.40	250.60	34.60	0.15	0.18	-8.22	0.10
8710041745	1.88	237.40	34.60	0.06	0.16	-5.40	0.08
8710041755	1.57	259.70	33.60	0.05	0.10	-14.75	0.89
8710041805	1.42	240.90	32.90	0.12	0.20	-10.97	0.10
8710041815	0.27	326.10	31.50	0.31	0.19	80.87	-0.76
8710041825	0.82	73.00	30.50	0.04	0.12	2.79	-0.11
8710041835	1.17	91.00	29.80	0.05	0.08	11.42	-1.58
8710041845	1.47	81.00	28.20	0.13	0.15	-35.71	0.74
8710041855	1.23	64.00	27.70	0.07	0.12	-6.48	0.27
8710041905	1.23	57.00	27.20	0.08	0.13	-17.08	0.61
8710041915	1.06	31.00	26.80	0.16	0.19	32.61	-0.33
8710041925	1.21	59.00	25.90	0.07	0.17	-11.02	0.16
8710041935	0.92	48.00	25.40	0.12	0.21	-28.47	0.21
8710041945	1.64	62.00	25.30	0.14	0.20	-21.22	0.18
8710041955	0.31	31.00	24.90	0.58	0.29	-66.63	0.19
8710042005	0.55	179.00	25.00	0.15	0.21	-14.10	0.11
8710042015	0.50	131.00	25.40	0.74	0.35	-72.72	0.13
8710042025	1.41	50.00	24.40	0.38	0.28	-15.91	0.05
8710042035	0.44	81.00	23.70	0.49	0.56	-254.89	0.10
8710042045	0.48	203.20	22.90	0.22	0.25	-67.80	0.31
8710042055	0.72	51.00	23.00	1.27	0.66	-32.48	0.01
8710042105	4.32	84.00	27.10	0.91	0.51	-166.91	0.09
8710042115	4.68	88.00	27.00	0.81	0.42	15.66	-0.01
8710042125	4.40	88.00	26.30	0.79	0.27	-28.21	0.10
8710042135	4.54	66.00	25.70	0.47	0.02	-65.73	488.94
8710042145	4.65	62.00	24.90	0.50	0.35	-9.91	0.02
8710042155	3.76	56.00	24.80	0.33	0.29	-22.64	0.07
8710042205	0.15	84.00	23.60	0.88	0.63	36.49	-0.01
8710042215	0.67	313.20	24.00	0.36	0.30	-71.16	0.18
8710042225	0.39	58.00	23.80	0.29	0.34	-119.55	0.22
8710042235	0.61	100.00	23.20	0.57	0.23	-33.38	0.20
8710042245	1.08	35.00	22.50	0.21	0.23	-26.27	0.16
8710042255	0.75	81.00	22.60	0.18	0.36	-118.91	0.19
8710042305	0.15	296.50	22.00	0.10	0.16	-19.54	0.33
8710042315	0.60	38.00	20.90	0.44	0.40	-94.84	0.11
8710042325	0.40	282.90	20.40	0.16	0.26	0.35	0.00
8710042335	1.28	60.00	20.00	0.29	0.21	12.82	-0.11
8710042345	1.75	55.00	21.10	0.17	0.26	-21.09	0.08
8710042355	1.19	47.00	20.70	0.07	0.11	-14.10	0.80
8710050005	0.47	62.00	20.30	0.32	0.46	-4.52	0.00
8710050015	1.21	51.00	18.60	0.35	0.47	-42.31	0.03
8710050025	0.84	68.00	19.30	0.26	0.43	-17.21	0.02
8710050035	0.71	61.00	19.00	0.22	0.22	-66.25	0.46
8710050045	0.73	35.00	18.90	0.15	0.24	-39.85	0.22
8710050055	0.70	55.00	19.10	0.19	0.35	-31.31	0.05
8710050105	0.42	17.00	18.50	0.19	0.25	-88.50	0.42
8710050115	0.94	47.00	18.40	0.09	0.12	-10.49	0.44
8710050125	0.80	113.00	18.70	0.18	0.14	-28.85	0.79
8710050135	1.00	81.00	17.70	0.18	0.09	-28.85	2.72
8710050145	0.87	47.00	18.10	0.13	0.17	-3.11	0.04
8710050155	0.27	70.00	17.70	0.19	0.38	2.12	0.00
8710050205	0.83	49.00	17.10	0.08	0.15	-12.85	0.30
8710050215	0.50	67.00	17.00	0.16	0.18	-6.86	0.08
8710050225	0.74	50.00	17.60	0.12	0.18	5.36	-0.07

SCANSTART	<U>	DIR	TEMP	ENERGY	U*	HEAT	Z/L
8710050255	1.28	52.00	16.80	0.14	0.19	-42.44	0.44
8710050305	0.77	28.00	17.00	0.32	0.42	38.43	-0.04
8710050315	1.18	50.00	16.70	0.04	0.10	-14.49	0.54
8710050325	0.38	75.00	16.30	0.19	0.37	-27.17	0.04
8710050335	0.45	54.00	16.20	0.11	0.28	10.23	-0.04
8710050345	0.62	42.00	16.30	0.12	0.21	-13.72	0.11
8710050355	0.14	20.00	16.40	0.02	0.10	12.60	-1.07
8710050405	0.74	31.00	15.90	0.09	0.18	-1.93	0.02
8710050415	0.98	50.00	16.10	0.12	0.27	-17.98	0.07
8710050425	0.95	52.00	15.60	0.12	0.20	-23.03	0.22
8710050435	0.53	80.00	16.00	0.06	0.18	1.94	-0.02
8710050445	0.82	40.00	15.30	0.15	0.19	-14.49	0.16
8710050455	0.91	66.00	15.20	0.04	0.15	-4.86	0.12
8710050505	0.24	105.00	14.90	0.13	0.18	-29.24	0.36
8710050515	0.55	14.00	15.10	0.09	0.22	-1.97	0.01
8710050525	0.61	53.00	14.70	0.11	0.13	10.35	-0.33
8710050535	0.34	55.00	14.20	0.07	0.18	13.84	-0.18
8710050545	1.19	56.00	14.40	0.28	0.36	-11.52	0.02
8710050555	0.20	250.90	14.10	0.05	0.21	15.79	-0.12
8710050605	0.47	358.30	14.80	0.18	0.37	7.53	-0.01
8710050615	1.15	44.00	14.20	0.03	0.08	0.10	-0.01
8710050625	0.91	61.00	13.80	0.07	0.13	14.88	-0.47
8710050635	1.27	37.00	14.00	0.15	0.10	0.69	-0.05
8710050645	0.58	48.00	13.50	0.10	0.11	1.91	-0.11
8710050655	0.71	58.00	13.30	0.18	0.31	-34.93	0.08
8710050705	1.03	32.00	13.70	0.20	0.25	-20.96	0.10
8710050715	0.76	32.00	13.40	0.14	0.15	11.54	-0.25
8710050725	1.04	28.00	13.90	0.07	0.13	-2.23	0.08
8710050735	1.01	46.00	13.60	0.06	0.14	-4.55	0.11
8710050745	0.80	56.00	14.30	0.16	0.26	4.90	-0.02
8710050755	0.96	68.00	14.40	0.04	0.09	-0.21	0.02
8710050805	0.79	28.00	14.80	0.10	0.18	12.50	-0.15
8710050815	0.61	70.00	15.20	0.10	0.15	-4.77	0.11
8710050825	0.45	38.00	16.20	0.14	0.34	1.31	0.00
8710050835	0.66	44.00	17.10	0.12	0.18	0.83	-0.01
8710050845	0.10	21.00	18.20	0.17	0.26	-97.43	0.40
8710050855	0.35	64.00	19.50	0.15	0.31	63.01	-0.16
8710050905	0.40	226.80	20.40	0.09	0.20	85.78	-0.72
8710050915	0.46	281.60	21.50	0.05	0.08	37.91	-5.09
8710050925	0.32	201.90	22.90	0.08	0.14	3.36	-0.08
8710050935	0.96	234.00	23.70	0.16	0.13	39.85	-1.33
8710050945	1.71	224.20	24.40	0.34	0.33	93.93	-0.19
8710050955	2.03	262.40	25.10	0.17	0.21	56.54	-0.43
8710051005	2.14	261.20	25.60	0.17	0.15	72.84	-1.43
8710051015	2.42	265.80	25.80	0.24	0.22	63.27	-0.40
8710051025	2.69	246.80	26.10	0.39	0.29	75.17	-0.22

Appendix E

Aerial photographs of smoke plumes and log book.

Table 1.

Project Wind. Phase 4 Meadow Brook CA.

Overview - Rise air, Rise ground activity.

Unstable trials (daytime).

STATUS.

			TURBULENCE (SONIC).	AERIAL PHOTO- GRAPHY.
21. Sep.	Dry run.	No smoke.	OK.	-
23. Sep.	Run no 1.	Smoke.	OK.	OK.
25. Sep.	Run no 3.	No smoke.	OK.	-
26. Sep.	Run no 4.	Smoke.	OK.	OK.
28. Sep.	Run no 6.	Smoke.	OK.	OK.
1. Oct.	Run no 10.	Smoke.	OK.	OK.
2. Oct.	Run no 12.	Smoke.	OK.	OK.

Stable trials (night & early morning).

24. Sep.	Run no 2.	No light.	OK.	-
27. Sep.	Run no 5.	Smoke.	OK.	OK.
30. Sep.	Run no 7.	Smoke.	OK.	OK.
30. Sep.	Run no 8.	No light.	OK.	-
1. Oct.	Run no 9.	Smoke.	OK.	OK.
2. Oct.	Run no 11.	Smoke.	OK.	OK.
3. Oct.	Run no 13.	Smoke.	OK.	OK.
3. Oct.	Run no 14.	SF ₆ -tracer only.	OK.	-

PROJECT WIND, PHASE 4

Log-report

Day: Mon. Sep. 21.

Meteorology:

Sonic station no 1. Start time: 10:45
Stop time: cont

Sonic station no 2. Start time: 11:00
Stop time: 16:00

Tracer-release run: (dry run) No smoke

FM - tape at st. no 1. Start time: 10:35
Stop time: 18:35

Photography (Aerial) Start time: %
Stop time: %

Pictures taken: %

PROJECT WIND, PHASE 4

Log-report

Day : Tues. Sep. 22

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: ✓

Stop time: ✓

Tracer-release run: ✓

FM - tape at st. no 1. Start time: ✓

Stop time: ✓

Photography (Aerial) Start time: ✓

Stop time: ✓

Pictures taken: ✓

PROJECT WIND, PHASE 4

Log-report

Day: Wed. Sep. 23

Meteorology:

Sonic station no 1. Start time: cont.
Stop time: cont.

Sonic station no 2. Start time: 11:30
Stop time: 15:45

Tracer-release run: 1 smoke

FM - tape at st. no 1. Start time: 11:00
Stop time: 15:57

Photography (Aerial) Start time: 14:07
Stop time: 14:53

Plate no 1. Pictures taken: 35

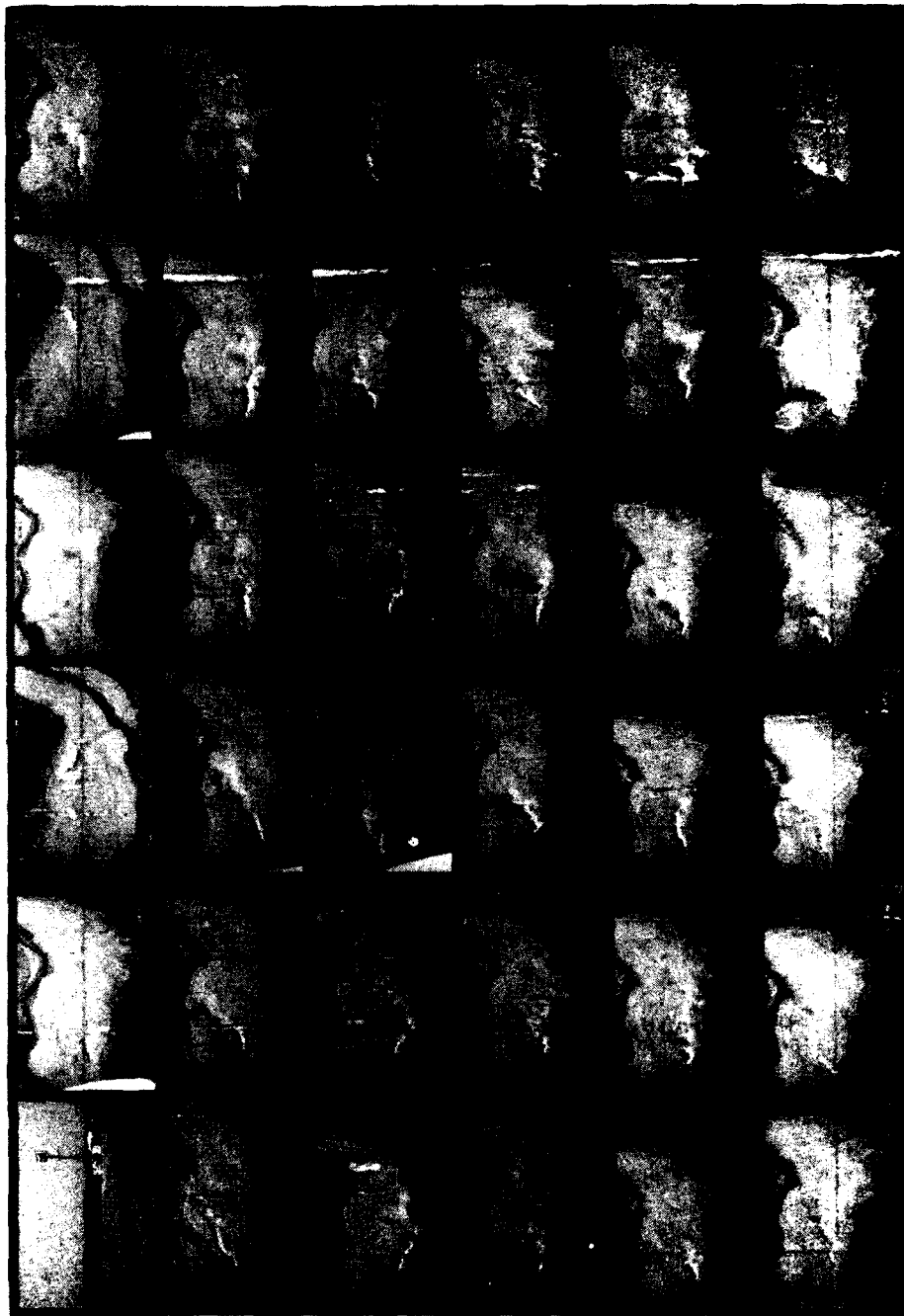


Plate no 1.

PROJECT WIND, PHASE 4

Log-report

Day: Thu. Sep. 24.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: %

Stop time: %

Tracer-release run: 2 (night run) no smoke

FM - tape at st. no 1. Start time: 21:05

Stop time: + 8 hours.

Photography (Aerial) Start time: %

Stop time: %

Pictures taken: %

PROJECT WIND, PHASE 4

Log-report

Day : Fri. Sep. 25.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: 13:00

Stop time: 14:00

Tracer-release run: 3 (canceled) no smoke

FM - tape at st. no 1. Start time: 13:35

Stop time: 21:35

Photography (Aerial) Start time: X

Stop time: X

Pictures taken: X

PROJECT WIND, PHASE 4

Log-report

Day: Sat. Sep. 26.

Meteorology:

Sonic station no 1. Start time: cont.
Stop time: cont.

Sonic station no 2. Start time: 09:45
Stop time: 13:30

Tracer-realese run: 4 smoke.

FM - tape at st. no 1. Start time: 10:30
Stop time: 13:30

Photography (Aerial) Start time: 12:03
Stop time: 13:08

Plate no 2.

Plate no 3. Pictures taken: 56

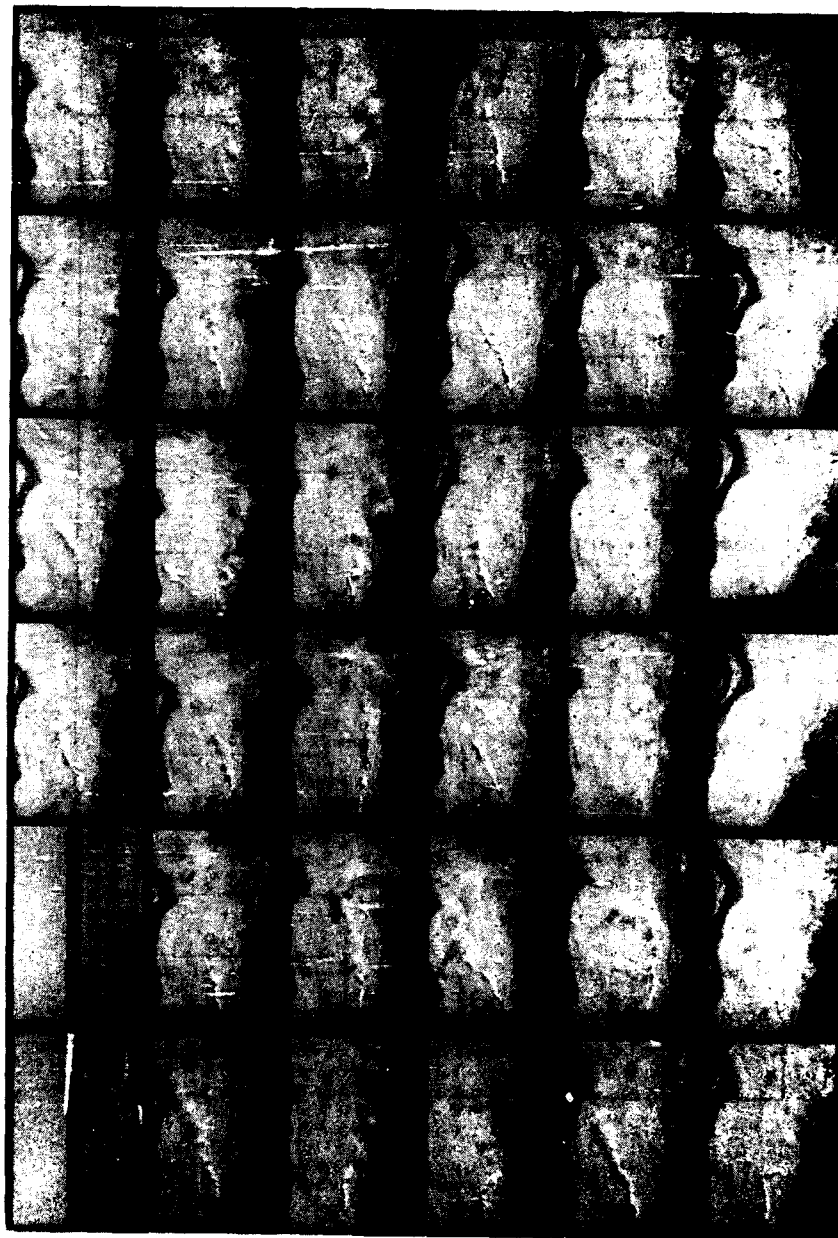


Plate no 2.



Plate no 3.

PROJECT WIND, PHASE 4

Log-report

Day: Sun. Sep. 27.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: X

Stop time: X

Tracer-realese run: 5 early morning

FM - tape at st. no 1. Start time: 06:15

Stop time: 12:15

Photography (Aerial) Start time: 06:45

Stop time: 07:13

Plate no 4. Pictures taken: 34

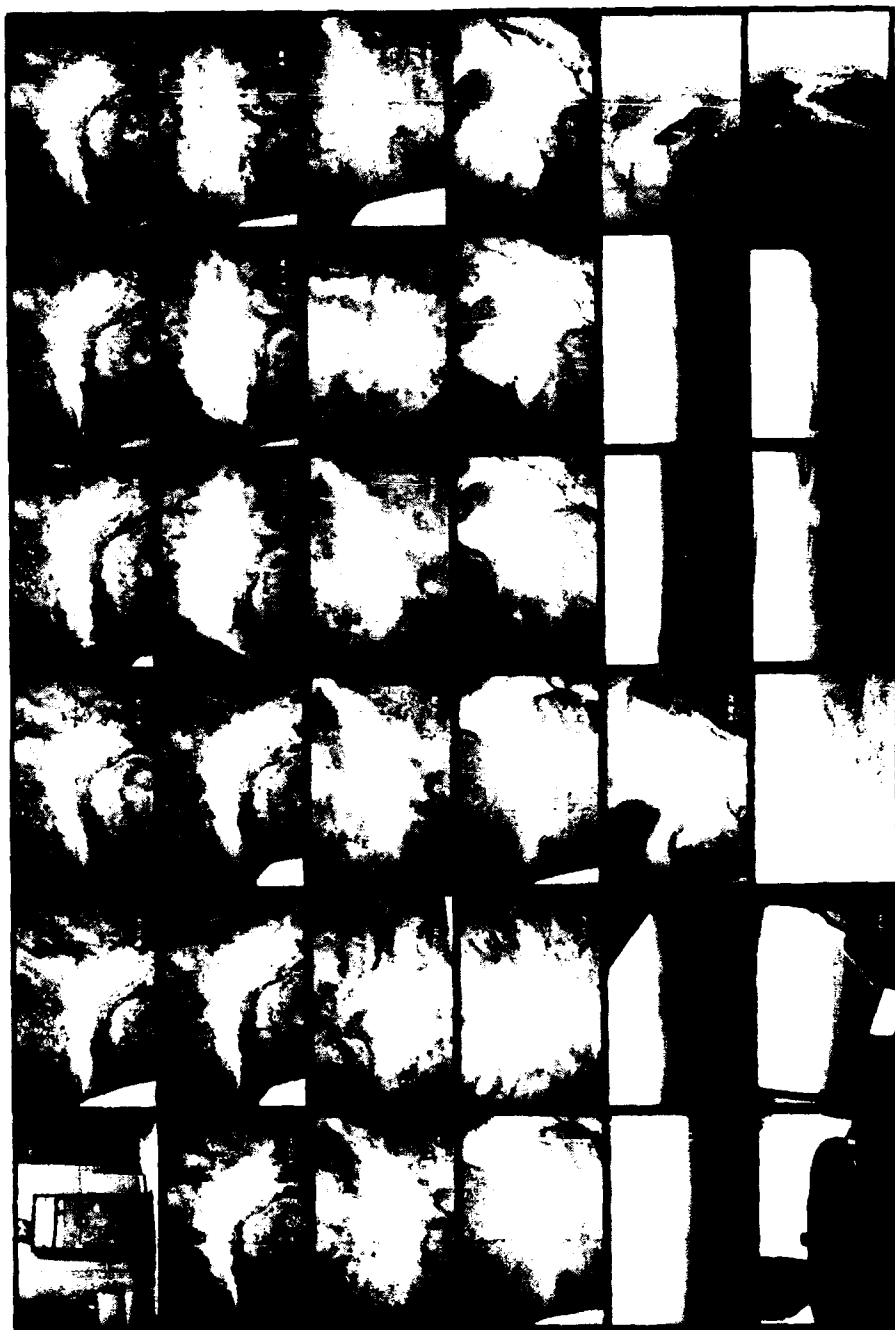


Plate no 4.

PROJECT WIND, PHASE 4

Log-report

Day: Mon. Sep. 28.

Meteorology:

Sonic station no 1. Start time: Cont.
Stop time: Cont.

Sonic station no 2. Start time: 10:00
Stop time: 14:30

Tracer-release run: 6 smoke

FM - tape at st. no 1. Start time: 10:20
Stop time: 14:52

Photography (Aerial) Start time: 10:39
Stop time: 10:58

Plate no 5. Pictures taken: 20

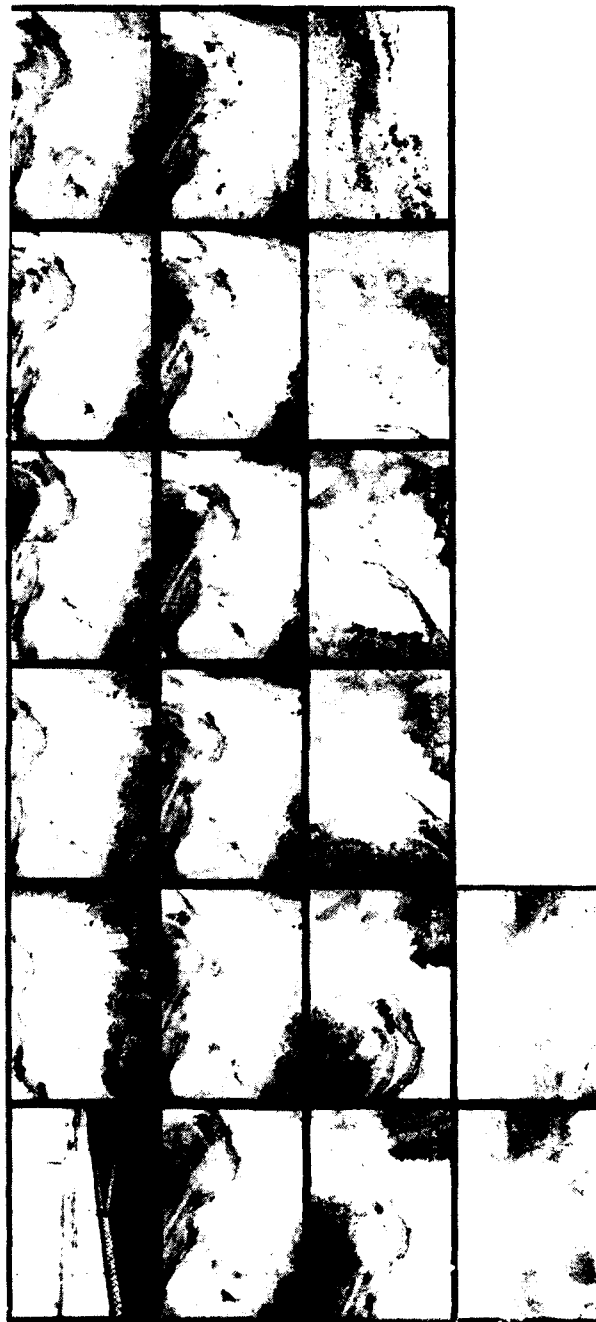


Plate no 5.

PROJECT WIND, PHASE 4

Log-report

Day: Tue. Sep. 29.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: ✓

Stop time: ✓

Tracer-release run: ✓

FM - tape at st. no 1. Start time: ✓

Stop time: ✓

Photography (Aerial) Start time: ✓

Stop time: ✓

Pictures taken: ✓

PROJECT WIND, PHASE 4

Log-report

Day: Wed. Sep. 30.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: x

Stop time: x

Tracer-release run: 7 smoke

FM-tape at st. no 1. Start time: 06:22

Stop time: 08:00

Photography (Aerial) Start time: 06:48

Stop time: 07:36

Plate no 6. Pictures taken: 37

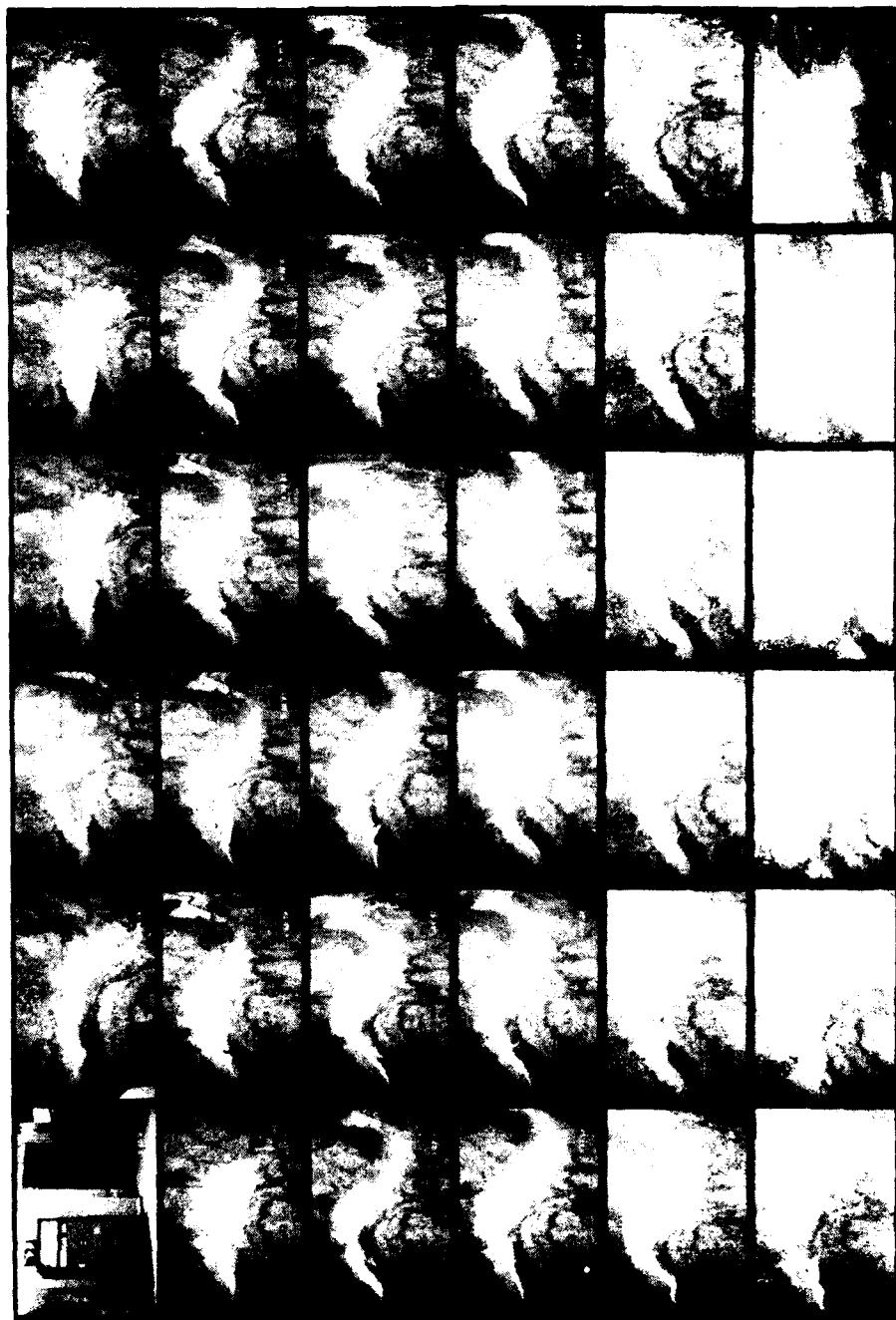


Plate no 6.

PROJECT WIND, PHASE 4

Log-report

Day: Wed. Sep. 30 cont.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: X

Stop time: X

Tracer-realese run: 8 night run.

FM - tape at st. no 1. Start time: 17:35

Stop time: + 8 hours

Photography (Aerial) Start time: X

Stop time: X

Pictures taken: X

PROJECT WIND, PHASE 4

Log-report

Day: Thu. Oct. 1.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: ✓

Stop time: ✓

Tracer-release run: 9 smoke.

FM - tape at st. no 1. Start time: 06:32

Stop time: 14:40

Photography (Aerial) Start time: 06:53

Stop time: 07:53

Plate no 7.

Plate no 8. Pictures taken: 56

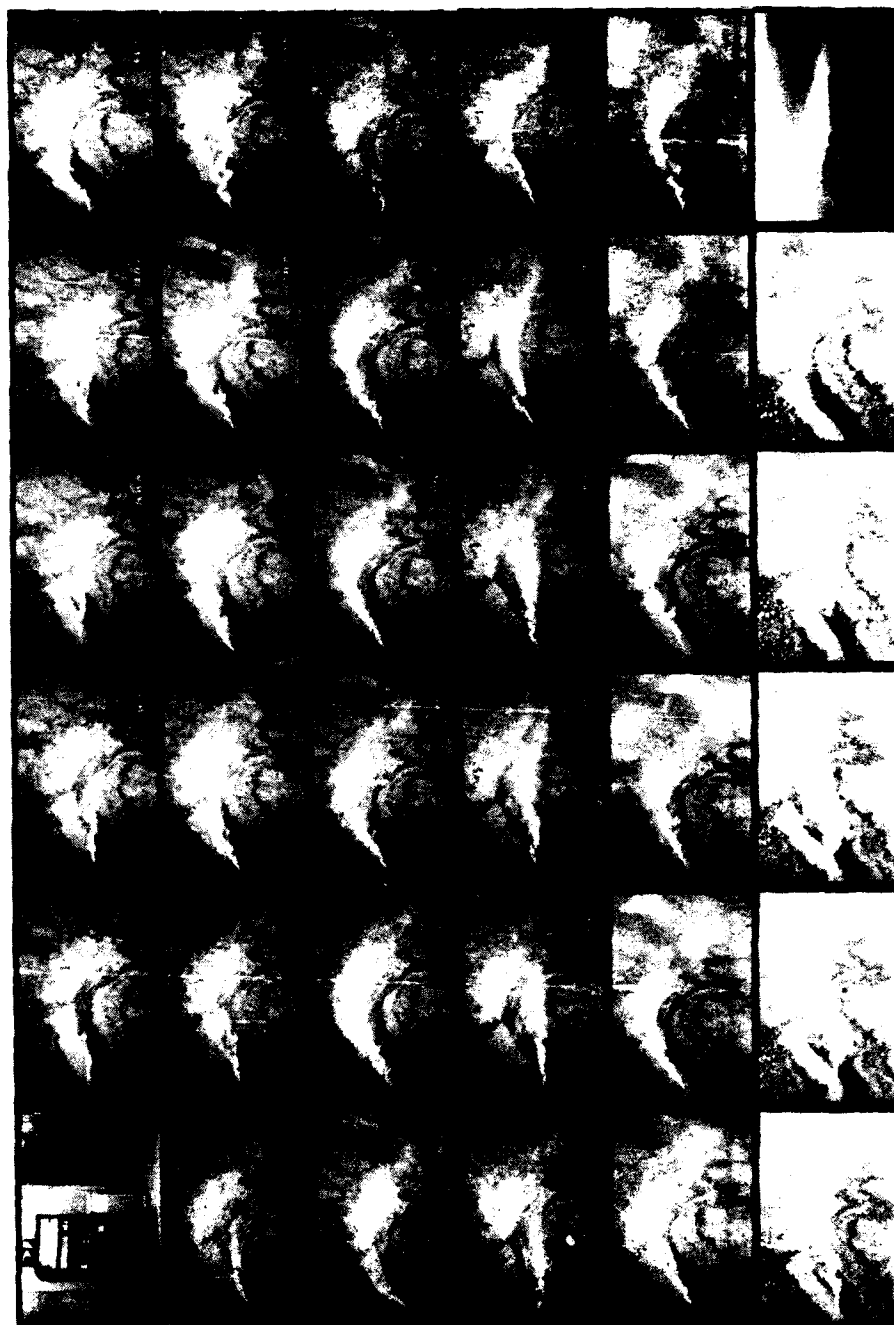


Plate no 7.



Plate no 8.

PROJECT WIND, PHASE 4

Log-report

Day: Thu. Oct. 1. cont.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: 12:40

Stop time: 15:00

Tracer-release run: 10 smoke.

FM - tape at st. no 1. Start time: 06:32

Stop time: 14:40

Photography (Aerial) Start time: 14:11

Stop time: 14:32

Plate no 9. Pictures taken: 19



Plate no 9.

PROJECT WIND, PHASE 4

Log-report

Day: Fri. Oct. 2.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: X

Stop time: X

Tracer-release run: 11 smoke.

FM - tape at st. no 1. Start time: 06:40

Stop time: 13:20

Photography (Aerial) Start time: 07:18

Stop time: 07:57

Plate no 10. Pictures taken: 36



Plate no 10.

PROJECT WIND, PHASE 4

Log-report

Day : Fri. Oct. 2.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: 12:00

Stop time: 13:20

Tracer-release run: 12 smoke.

FM - tape at st. no 1. Start time: 06:40

Stop time: 19:20

Photography (Aerial) Start time: 12:17

Stop time: 12:59

Plate no 11. Pictures taken: 27

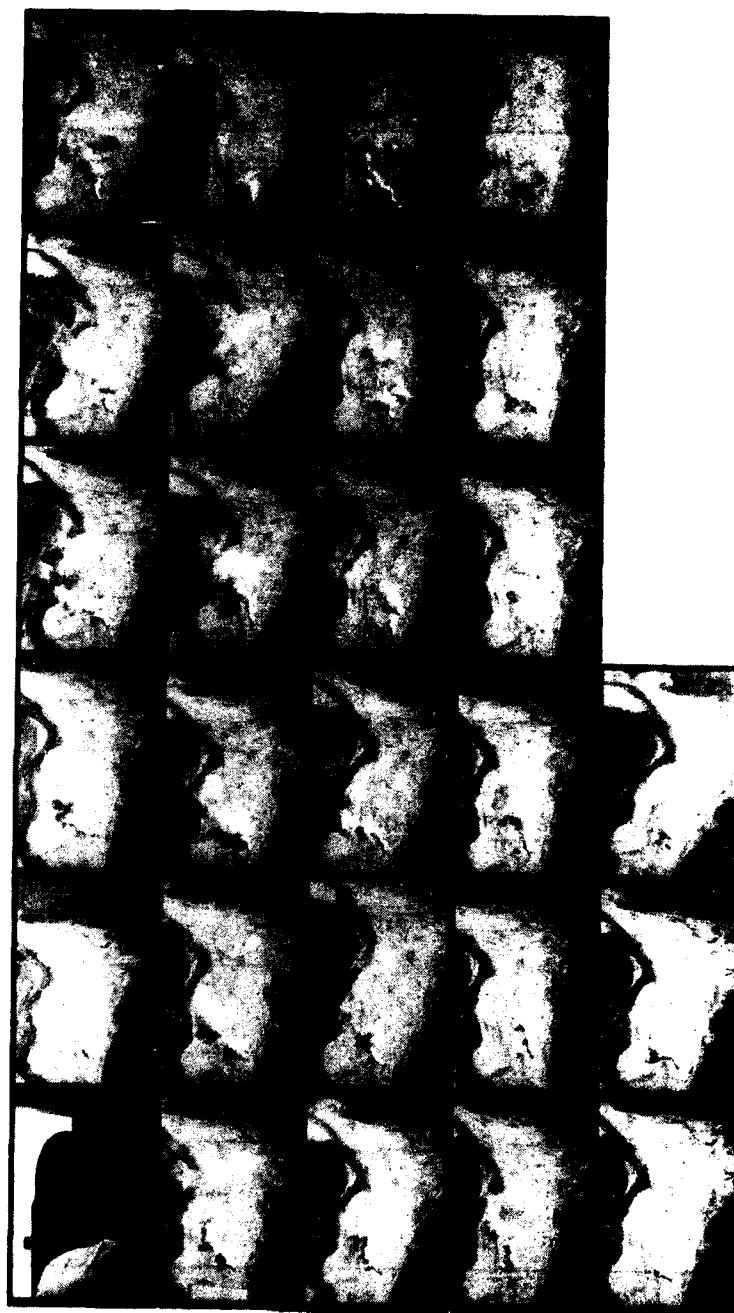


Plate no 11.

PROJECT WIND, PHASE 4

Log-report

Day: Sat. Oct. 3.

Meteorology:

Sonic station no 1. Start time: cont.

Stop time: cont.

Sonic station no 2. Start time: %

Stop time: %

Tracer-release run: 13 smoke.

FM - tape at st. no 1. Start time: 06:40

Stop time: 12:34

Photography (Aerial) Start time: 06:57

Stop time: 07:35

Plate no 12. Pictures taken: 30

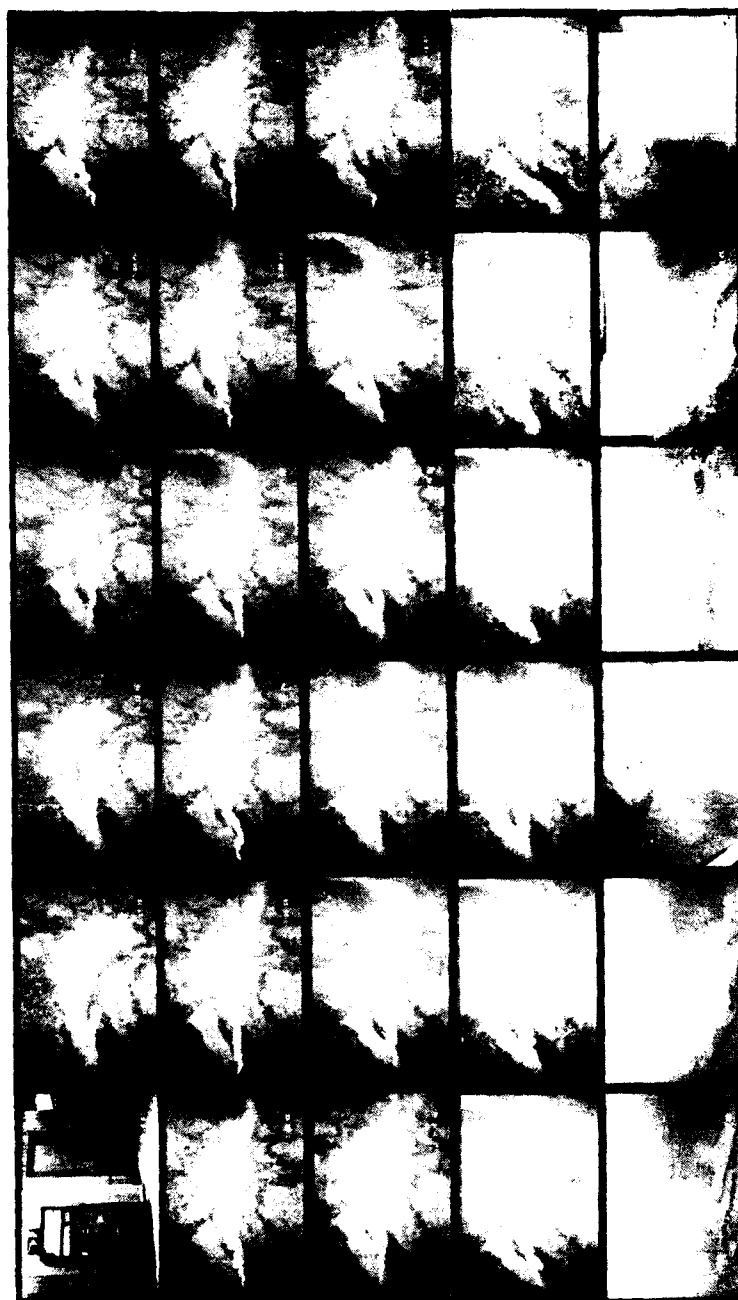


Plate no 12.

PROJECT WIND, PHASE 4

Log-report

Day: Sat. Oct. 3.

Meteorology:

Sonic station no 1. Start time: cont.
Stop time: 24:00

Sonic station no 2. Start time: ✓
Stop time: ✓

Tracer-release run: 14 no smoke.

FM - tape at st. no 1. Start time: 14:10
Stop time: 22:18

Photography (Aerial) Start time: ✓
Stop time: ✓

Pictures taken: ✓

Unclassified
SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				Form Approved OMB No 0704-0188 Exp Date Jun 30, 1986	
1a REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS		
2a SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution unlimited.		
2b DECLASSIFICATION/DOWNGRADING SCHEDULE					
4 PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S) R&D 5898-EN-01		
6a NAME OF PERFORMING ORGANIZATION		6b. OFFICE SYMBOL (If applicable)		7a. NAME OF MONITORING ORGANIZATION USARDSG-UK	
6c. ADDRESS (City, State, and ZIP Code)				7b. ADDRESS (City, State, and ZIP Code) Box 65 FPO NY 09510-1500	
8a NAME OF FUNDING/SPONSORING ORGANIZATION Riso National Laboratory		8b. OFFICE SYMBOL (If applicable)		9 PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER DAJA45-87-M-0475	
8c. ADDRESS (City, State, and ZIP Code) Department of Meteorology & Wind Energy DK-4000 Roskilde, Denmark				10. SOURCE OF FUNDING NUMBERS	
				PROGRAM ELEMENT NO 61102A	PROJECT NO 11161102BH57
				TASK NO 01	WORK UNIT ACCESSION NO
11. TITLE (Include Security Classification) (U) Participation in Project WIND, Phase IV, Dispersion Study					
12 PERSONAL AUTHOR(S) Mikkelsen, Torben					
13a TYPE OF REPORT Final		13b. TIME COVERED FROM 9/87 TO 2/88		14. DATE OF REPORT (Year, Month, Day)	
15 PAGE COUNT					
16 SUPPLEMENTARY NOTATION					
17 COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP			
04	01				
04	02				
19 ABSTRACT (Continue on reverse if necessary and identify by block number)					
The present data report is based on direct turbulence and diffusion measurements performed by Riso National Laboratory during the AMADEUS smoke tests of Project Wind, Phase IV, which took place as a cooperative research-oriented field effort between the U.S. Army Atmospheric Sciences Laboratory (ASL) and the U.S. Department of Agriculture Forest Service (USDAFS) in the Meadow Brook Valley near Red Bluff, California, between 23 September and 7 October 1987. In particular, Riso National Laboratory performed (1) direct measurements of the surface layer scaling parameters such as heat flux, shear stress, turbulence, and stability measurements at two characteristic locations in the Meadow Brook Valley floor and (2) concurrently obtained documentation of the plume and puff spread based on aerial photography. The present report provides time series plots of the 10-min averaged covariance matrix of u, v, w, and T from the two sonics together with prints of photos taken of the smoke/puff plumes from an aircraft in a form suitable for subsequent model simulation of individual dispersion scenarios.					
20 DISTRIBUTION/AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT. ☒ DTIC USERS			21 ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a NAME OF RESPONSIBLE INDIVIDUAL Jerry C. Comati			22b TELEPHONE (Include Area Code) +441-402-7331		22c OFFICE SYMBOL AMXSN-UK-RE

DD FORM 1473, 84 MAR

83 APR edition may be used until exhausted
All other editions are obsolete

SECURITY CLASSIFICATION OF THIS PAGE
Unclassified

Risø-M-2718

Title and author(s)		Date January 1989
Project WIND, Phase IV, Dispersion Study: Aerial Smoke Plume Observations and Surface Layer Turbulence Measurements, Part I		Department or group Meteorology and Wind Energy
T. Mikkelsen, A. Hansen, R.M. Eckman, and S. Thykier-Nielsen		Groups own registration no.
		Project/contract no. 1L161102BH57/DAJA45-87-M- 0475
Pages 130	Tables 1	Illustrations 27
References 1	ISBN 87-550-1431-3	
Abstract (max. 2000 characters)		
The present data report is based on direct turbulence and diffusion measurements performed by Risø National Laboratory during the AMADEUS smoke tests of Project Wind, Phase IV, which took place as a cooperative research-oriented field effort between the U.S. Army Atmospheric Sciences Laboratory (ASL) and the U.S. Department of Agriculture Forest Service (USDAFS) in the Meadow Brook Valley near Red Bluff, California, between 23 September and 7 October 1987. In particular, Risø National Laboratory performed (1) direct measurements of the surface layer scaling parameters such as heat flux, shear stress, turbulence, and stability measurements at two characteristic locations in the Meadow Brook Valley floor and (2) concurrently obtained documentation of the plume and puff spread based on aerial photography. The present report provides time series plots of the 10-min averaged covariance matrix of u, v, w, and T from the two sonics together with prints of photos taken of the smoke/puff plumes from an aircraft in a form suitable for subsequent model simulation of individual dispersion scenarios.		
Descriptors - EDB		
AERIAL SURVEYING; AMBIENT TEMPERATURE; BOUNDARY LAYERS; CALIFORNIA; COMPLEX TERRAIN; DAILY VARIATIONS; DIFFUSION; EXPERIMENTAL DATA; HEAT FLUX; PHOTOGRAPHY; PLUMES; SMOKES; STABILITY; STATISTICAL DATA; STRESSES; TURBULENCE; VELOCITY; WIND		
Available on request from Risø Library, Risø National Laboratory (Risø Bibliotek, Forskningscenter Risø) P.O. Box 49, DK-4000 Roskilde, Denmark. Telephone: 02 37 12 12, ext. 2262. Telex: 43116, Telefax: 02 36 06 09		