

**OCEAN
DRILLING
PROGRAM**

**ADARA DOWNHOLE
TEMPERATURE UPLOADER**

USER'S MANUAL

Updated 7/9/99

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Introduction

The *Adara* program was designed to aid in the uploading of downhole temperature data into the central database. Downhole temperature data is recorded on the ship using a separate program. *Adara* is only used to upload data to the database and for minor editing functions.

Document Layout

This document is broken into several sections. The first two describe how to start and log into *Adara*. The next two describe each window and how to upload data. The fifth section describes the *Adara* editing functions. An appendix provides file format information.

Starting Adara

Start *Adara* in one of two ways:

- From the **Start Menu (Explorer Window)**, open the *Adara* group. Double click on the *Adara* icon.

OR

- Double click on the desktop *Adara* icon.

Login Procedure

The “Login” window is displayed in Figure 1 below.

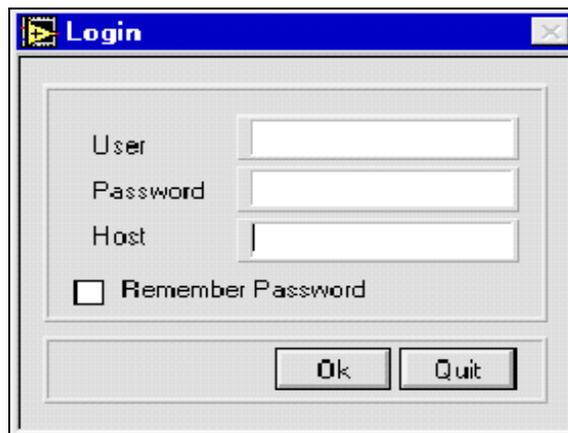


Figure 1. Adara “Login” Window.

- **Navigate** through the entry boxes using the mouse or the **Tab** key. <Tab> moves the cursor forward to the next entry box and <Shift+Tab> moves the cursor back to the previous entry box.
- Enter a **USER**, **PASSWORD**, and **HOST**. These restrict access to the central database and help to preserve data consistency and integrity.
- The very first time *Adara* is started, the **USER** and **PASSWORD** fields will be empty. Consult the on-duty lab technician or MCS for valid logins.
- Multiple databases are setup for production, testing, and development efforts. Select the “Test” or “Production” database via the **HOST** selection box. **Be sure the HOST is in “Production” mode during a “live” run.**
- For subsequent logins, Adara recalls the **USER** and **HOST** settings. Check the “Remember Password” box if you want the password recalled.

- If you enter an invalid **USER** or **PASSWORD**, the program displays the following message:



Figure 2. Warning for an incorrect login.

- Clicking **OK** takes you back to the **Login** window. Verify the **USER** and **PASS-WORD**. **If the login continues to fail, contact an MCS or the help desk.** They will ensure that the program is installed and configured properly, and that the central database is available.
- Clicking the **OK** button or the **Enter** key completes the login process. Clicking **Quit** or the **Esc** button exits the login procedure.

Main Adara Window

Purpose

The main Adara window displays “downhole temperature” data that has already been uploaded and is stored in the central database. The spreadsheet window displays data runs for the selected leg, site, and hole.

Note: This window is intended for data browsing and selection, and for minimal editing functions only.

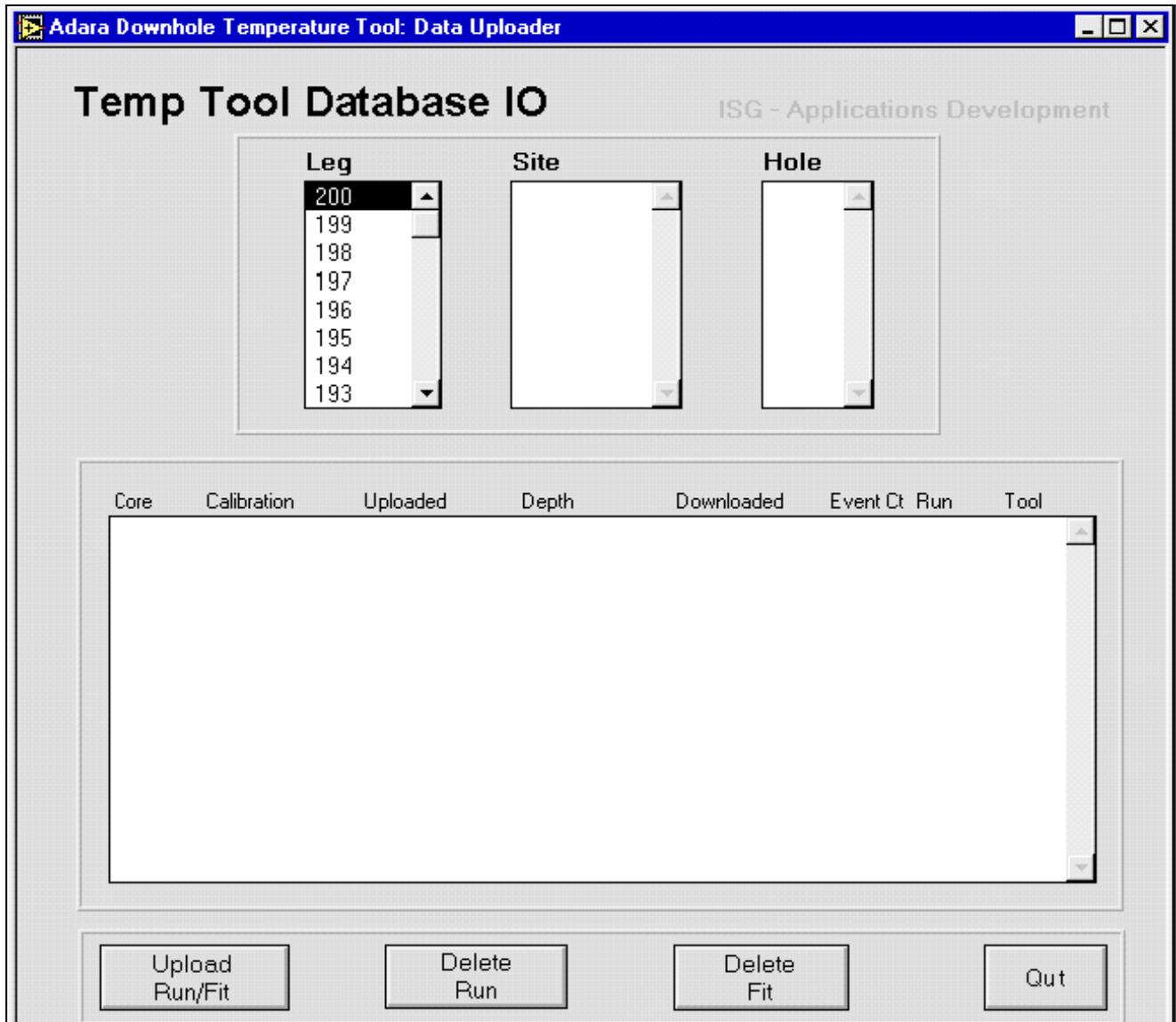


Figure 3. Adara's Main Working Window.

Window Layout

1. Notice that the top half of the window has columns for **leg**, **site**, and **hole**. **These columns display information that is stored in the database.** The site information displayed is dependent on the leg selected, as the hole information displayed is dependent on the site selected.
 - Use the mouse to highlight your choice in each column. Use the scrollbar or the arrow keys to move up or down a column.
 - Select a **leg number** by clicking on it, or by typing in the digits. The program displays the first item in the list that starts with those digits.

Note: If you select a leg, site, and hole and no runs are displayed, either no data has been uploaded to the database for that hole, or no data was collected.

2. The lower half is a spreadsheet displaying the data runs that correspond to the information selected in the leg/site/hole columns. **Each row corresponds to a single run of the temperature tool** (See Figure 4). The column headers briefly describe information about the tool run (e.g. core, calibration, etc.).

Core	Calibration	Uploaded	Depth	Downloaded	Event Ct	Run	Tool
3	09-OCT-91	08-JUL-97	30	02-FEB-98	2	1	17
6	09-OCT-91	08-JUL-97	60	02-FEB-98	2	2	17

Figure 4. Data runs corresponding to selected column information.

These data runs are intended for browsing, selection, and minor editing only (See "Editing Uploaded Data" p. 12).

3. There are several buttons at the bottom of the window (See Figure 5).

Upload Run/Fit		Delete Run		Delete Fit		Quit
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Figure 5. Buttons of the main Adara window.

- **Upload Run/Fit** – opens the *Adara* “Upload” window. Downhole Temperature data is uploaded to the central database from this window (See "Uploading" p. 10).
- **Delete Run** – Deletes all **FIT** and **DAT** data from a selected run (See "Delete Run" p. 13).
- **Delete Fit** – Deletes only the **FIT** data associated with a selected run (See "Delete Fit" p. 13).
- **Quit** – Exits the *Adara* program.

Adara “Upload” Window

Purpose

Use this window to upload selected Adara files to the database. **Open this window by clicking on the “Upload Run/Fit” button on the main window.** You can upload individual files from those listed, or groups of files. Once the files are uploaded to the central database, the data becomes available on the main *Adara* window (Section 3).



Figure 6. The “Upload” window of Adara.

Configuring Files

The **upload path** (directory path that tells the program where to upload Adara files from) must be set correctly before uploading. If it is not set correctly, the following message is displayed when you click on the **Upload Run/Fit** button.



Figure 7. Improper directory name warning.

This message indicates that you have not set the correct configuration. Without the correct configuration, the program cannot display files containing *Adara* data. Follow these directions

to set the correct upload path.

1. Click **OK** on the warning message. This re-opens the “Upload” window (See Figure 8). **At this point, if you already know the upload path, type it into the entry box. If not, continue...**

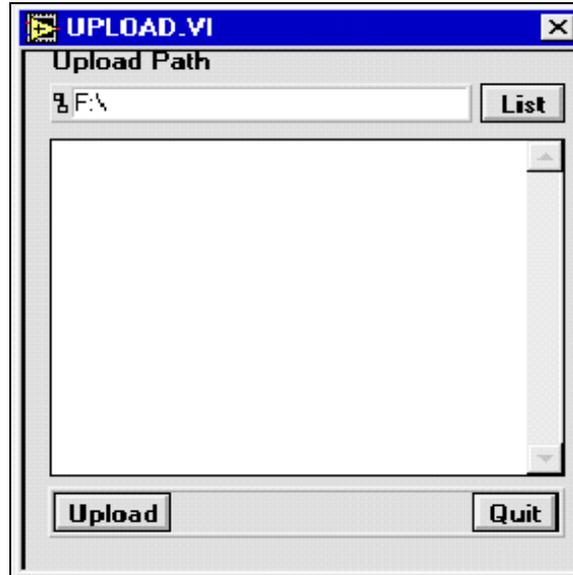


Figure 8. The Adara “Upload” window.

2. Click on the **List** button. This displays the “Open” dialog box (See Figure 9).

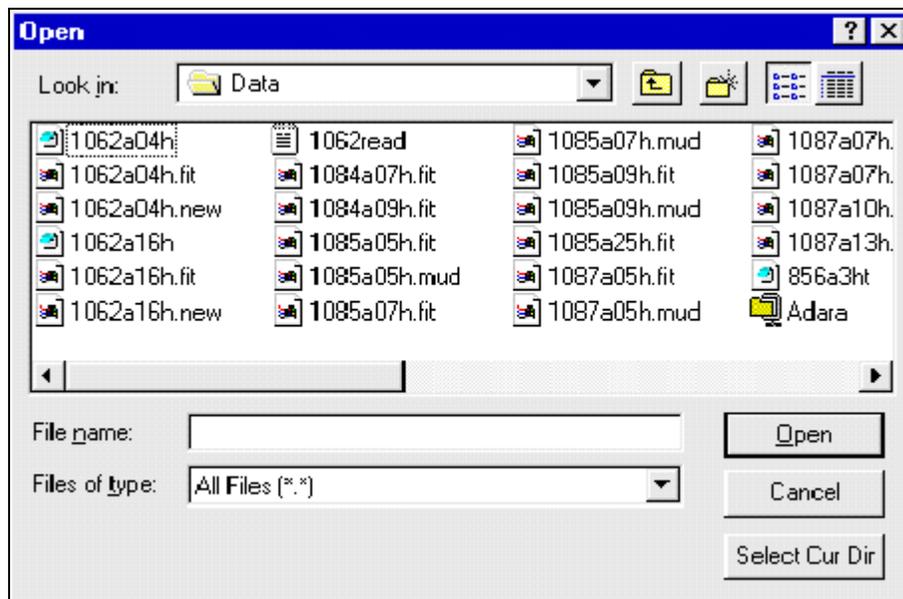


Figure 9. Set the Configuration at this dialog box.

3. Navigate through the "Open" dialog box until you find the files you want to upload, then click the **Select Cur Dir** button. The "Upload" window should now contain a list of files, ready for uploading, and the upload path should be in the entry field (See Figure 10).

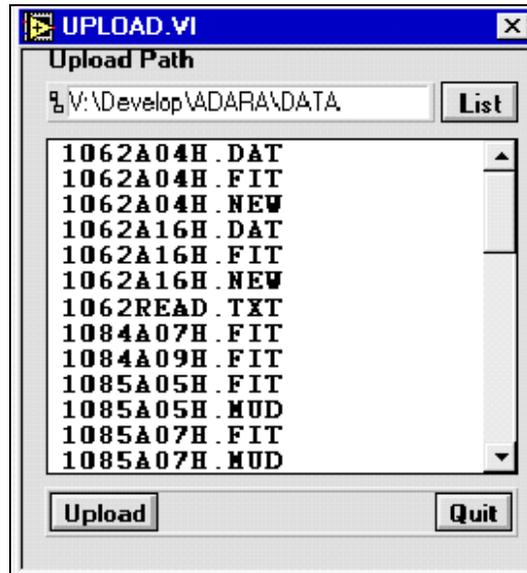


Figure 10. Files ready for upload.

Note: This program has no mechanism to sort files into different directories. For example, it does not have separate directories to store files already uploaded versus those that have not been uploaded. Therefore, some files listed on the screen may already be uploaded to the database, while others may still need to be uploaded. *The best way to keep track of these files is to keep a written record, or to manually move uploaded files to their own sub-directory in the computer file system.*

Uploading

1. Select the files you want to upload to the central database from the “Upload” window. There are several ways to do this:
 - Select only one file by clicking on it. This will highlight the file.
 - Select multiple individual files by holding down the **Shift** key while clicking on each file (See Figure 11).



Figure 11. Multiple individual files selected.

- Highlight a block of files by holding down the **Shift** key while dragging the mouse over the files.
2. Once you have selected all the files you want to upload, click the **Upload** button.
 3. If there are problems uploading data to the central database, you will receive the following message.



Figure 12. Upload Error warning.

Note: This program does not give specific error messages.

Check the Log screen for possible problems (See "Upload Log" p. 11).

4. All successfully uploaded files should now be in the central database. You can see the data in the "Downhole Temperature" web browser reports at the following address:
http://janusaxp.tamu.edu/predef_queries/physprops/adara.htm.

Upload Log

The upload log displays information regarding the progress and success/failure during each upload (See Figure 13). It is cleared for each new batch of files submitted for uploading.

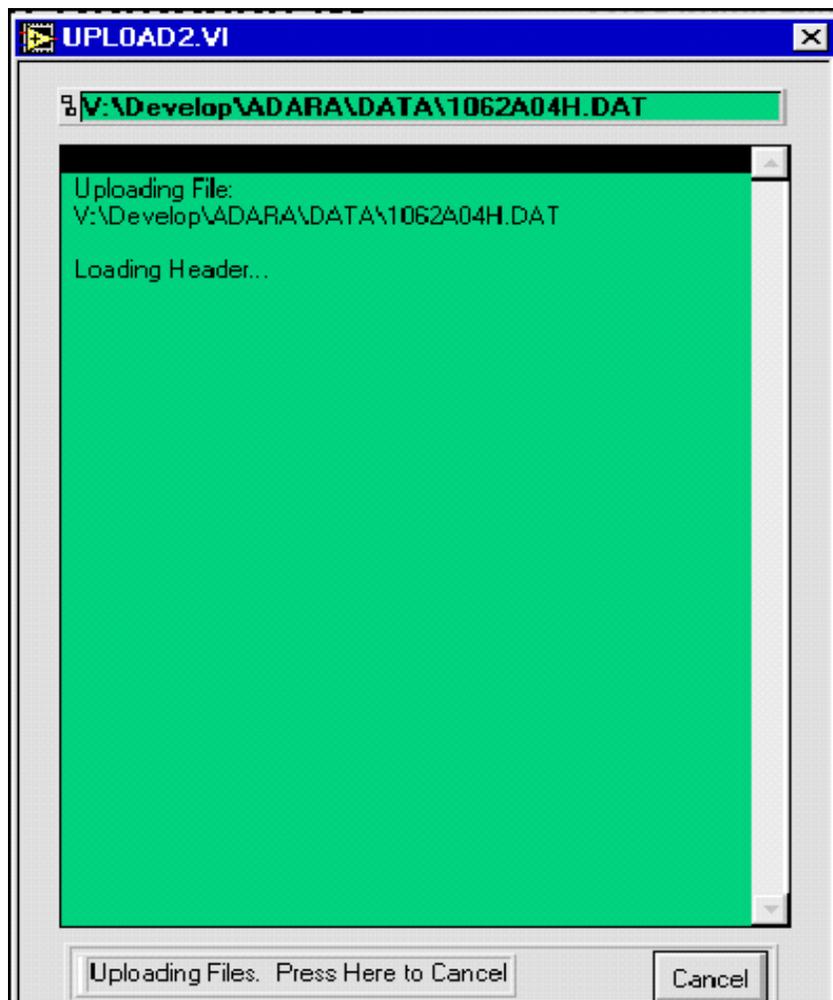


Figure 13. The Upload Log of Adara.

Note: The Cancel button will only halt the upload after processing is complete on the current file. It will NOT halt processing in the middle of a file.

Editing Uploaded Data

Purpose

The *Adara* program contains two editing functions. These are used to edit samples in the Janus database so as to correct for common data oversights/errors. The editing functions are displayed as buttons on the main *Adara* window (See Figure 14).

Note: remember that both of the editing functions DELETE data from the central database. To retrieve it, you must upload the file again!

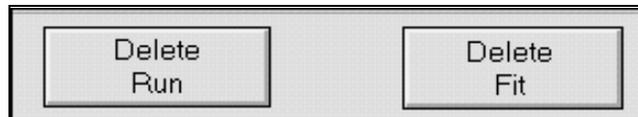


Figure 14. Adara editing buttons.

Run Identification

1. To edit, you must first identify the run of data files that needs editing. Select the appropriate **leg**, **site** and **hole** from the main *Adara* window (See Figure 15).
2. The corresponding runs are displayed on the spreadsheet below the columns.
3. Each run may have one or more filenames associated with it. The **“.DAT”** files contain calculated temperature data results. The **“.FIT”** and **“.MUD”** files contain raw new data, which is used to generate the temperature results from the tool run.

Temp Tool Database IO

ISG - Applications Development

Leg

- 187
- 186
- 185
- 184
- 183
- 182
- 181
- 180

Site

- 1125
- 1124
- 1123
- 1122
- 1121
- 1120
- 1119

Hole

- B
- A

Core	Calibration	Uploaded	Depth	Downloaded	Event Ct	Run	Tool
5	09-APR-90	03-OCT-98	42.3	06-OCT-98	2	1	12
7	09-APR-90	03-OCT-98	61.3	06-OCT-98	2	2	12
9	09-APR-90	03-OCT-98	80.3	06-OCT-98	2	3	12

Figure 15. Displayed runs corresponding to the selected information.

4. If the needed data is not displayed in the list, first verify that the source data file was successfully uploaded. If problems were encountered or the data is still missing, then check with the Lab Technician, Curator, or Database Administrator to ensure that the data has been entered into the database.
5. Before an editing function can occur, a run must be selected. Click on any of the runs listed. This highlights and selects a run for editing.

Delete Run

This button allows you to delete **all** data associated with a run, including **DAT**, **FIT**, and **MUD** data.

The following message is displayed before the function will continue. Click **OK** to proceed, or **Cancel** to stop the deletion.



Figure 16. Warning for deleting runs.

Delete Fit

This button allows you to delete all **FIT** data associated with a run. This function does **NOT** delete **DAT** data.

The following message is displayed before the function will continue. Click **OK** to proceed, or **Cancel** to stop the deletion.

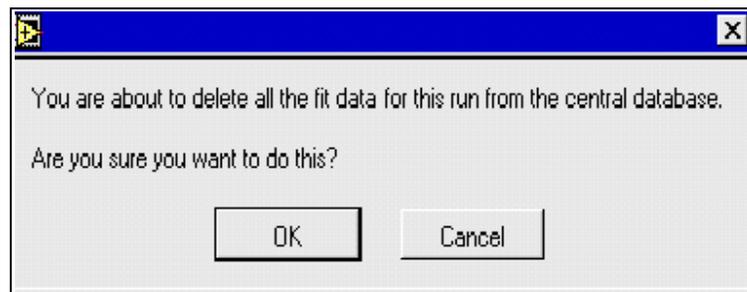


Figure 17. Warning for deleting fit data

Appendix: File Formats

This appendix includes an example of a “.dat” and a “.fit” file. A “.dat” file is the raw file produced, and the “.fit” file is the result of processing data through a program called TFit.

A. “.dat” Example

Please note that several lines of data have been eliminated from the bottom in the essence of space.

“ **** Adara Temperature Tool Data File Version 3.0 ****”

“ Serial Number: 14”

“ Calibration Date: 17:10:1991”

“ Download Reference: 01:02:37:59”

“ Start Logging Time: Mon May 24 02:38:08 1999”

“ Data Uploaded @: Mon May 24 04:57:02 1999”

“ Cruise Leg: 185 “

“ Cruise Subleg: 0 “

“ Site: 1149 “

“ Hole: A “

“ Core: 0008 “

“ Run number: 03 “

“ Subbottom depth: 00070.7 “

“ Event count: 2”

“ Event Number: 01”

“ Start time: 01:02:38:29”

“ Stop time: 01:02:38:44”

“ Increment time: 00:00:00:05”

“ Number Scans: 0003”

000001, 20.089

000002, 20.097

000003, 20.089

“ Event Number: 02”

“ Start time: 01:02:38:59”

“ Stop time: 01:05:17:59”

“ Increment time: 00:00:00:10”

“ Number Scans: 0827”

000004, 20.013

000005, 20.021

000006,	20.013
000007,	20.005
000008,	20.005
000009,	19.998
000010,	20.013
000011,	20.013
000012,	20.021
000013,	20.005
000014,	20.013
000015,	20.028
000016,	20.021
000017,	20.028
000018,	20.013
000019,	20.226
000020,	20.522
000021,	20.674
000022,	20.765
000023,	20.879
000024,	20.963
000025,	21.062
000026,	21.199
000027,	21.358
000028,	21.389
000029,	21.411
000030,	21.411
000031,	21.419
000032,	21.434
000033,	21.427
000034,	21.434
000035,	21.457
000036,	21.472
000037,	21.488
000038,	21.457
000039,	21.442
000040,	21.411
000041,	21.381
000042,	21.343
000043,	21.320
000044,	21.297
000045,	21.267
000046,	21.244
000047,	21.221
000048,	21.183

B. “.fit” Example

LEG 185
HOLE A
CORE 0008

RESULTS OF APC TEMPERATURE FITTING

Penetration record # = 311
First data to process = 317
Last data to process = 406

MATERIAL PARAMETERS

A= .03099 B= .04534 M
C1= .820 C2= 19.700 W/M-K
D1= .00000023 D2= .00000586 M**2/S
96 Temperature data at 10.0 second intervals
First 6 data points not processed

SHIFT	# DATA	T0	B	RMS RES
-6	90	6.550	4.868	.061
-5	90	6.480	5.162	.037
-4	90	6.390	5.519	.031
-3	90	6.298	5.889	.032
-2	90	6.206	6.267	.039
-1	90	6.115	6.649	.048
0	90	6.024	7.035	.058
1	90	5.934	7.424	.068
2	90	5.845	7.818	.078
3	90	5.756	8.214	.087
4	90	5.667	8.615	.095
5	90	5.579	9.020	.104
6	90	5.490	9.430	.111
7	90	5.402	9.843	.119
8	90	5.314	10.262	.125
9	90	5.226	10.685	.132

BEST FIT $TD=T0+B*TT$
SHIFT= -4 T0= 6.390 B= 5.519 SE= .031

REC #	DATA	MODEL	CALCULATED	RESIDUAL
311	2.439			
312	2.751			
313	6.962			

314	15.703			
315	13.848			
316	12.663			
317	11.789	.944	11.601	.188
318	11.302	.891	11.309	-.007
319	10.968	.843	11.043	-.075
320	10.724	.800	10.805	-.081
321	10.519	.762	10.593	-.074
322	10.344	.727	10.402	-.058
323	10.185	.696	10.231	-.046
324	10.056	.668	10.076	-.020
325	9.926	.642	9.935	-.009
326	9.797	.619	9.807	-.010
327	9.683	.598	9.690	-.007
328	9.577	.578	9.582	-.005
329	9.486	.560	9.483	.003
330	9.394	.544	9.391	.003
331	9.311	.528	9.306	.005
332	9.227	.514	9.226	.001
333	9.143	.501	9.152	-.009
334	9.083	.488	9.083	.000
335	9.029	.476	9.018	.011
336	8.976	.465	8.957	.019
337	8.908	.455	8.900	.008
338	8.855	.445	8.846	.009
339	8.809	.436	8.794	.015
340	8.756	.427	8.746	.010
341	8.718	.419	8.700	.018
342	8.672	.411	8.656	.016
343	8.627	.403	8.615	.012
344	8.589	.396	8.575	.014
345	8.558	.389	8.538	.020
346	8.520	.383	8.502	.018
347	8.482	.376	8.468	.014
348	8.452	.370	8.435	.017
349	8.421	.365	8.403	.018
350	8.399	.359	8.373	.026
351	8.361	.354	8.345	.016
352	8.330	.349	8.317	.013
353	8.307	.344	8.290	.017
354	8.277	.340	8.265	.012
355	8.254	.335	8.240	.014
356	8.239	.331	8.217	.022

357	8.209	.327	8.194	.015
358	8.186	.323	8.172	.014
359	8.171	.319	8.151	.020
360	8.140	.315	8.130	.010
361	8.125	.312	8.111	.014
362	8.110	.308	8.092	.018
363	8.087	.305	8.073	.014
364	8.072	.302	8.055	.017
365	8.049	.299	8.038	.011
366	8.034	.296	8.022	.012
367	8.011	.293	8.005	.006
368	8.003	.290	7.990	.013
369	7.988	.287	7.975	.013
370	7.965	.284	7.960	.005
371	7.965	.282	7.946	.019
372	7.950	.279	7.932	.018
373	7.927	.277	7.919	.008
374	7.920	.275	7.906	.014
375	7.897	.272	7.893	.004
376	7.897	.270	7.881	.016
377	7.889	.268	7.869	.020
378	7.867	.266	7.857	.010
379	7.859	.264	7.846	.013
380	7.836	.262	7.835	.001
381	7.844	.260	7.824	.020
382	7.821	.258	7.814	.007
383	7.806	.256	7.803	.003
384	7.790	.254	7.793	-.003
385	7.783	.253	7.784	-.001
386	7.775	.251	7.774	.001
387	7.760	.249	7.765	-.005
388	7.745	.248	7.756	-.011
389	7.737	.246	7.747	-.010
390	7.722	.244	7.739	-.017
391	7.714	.243	7.731	-.017
392	7.707	.241	7.723	-.016
393	7.692	.240	7.715	-.023
394	7.692	.239	7.707	-.015
395	7.684	.237	7.699	-.015
396	7.669	.236	7.692	-.023
397	7.661	.235	7.684	-.023
398	7.646	.233	7.677	-.031
399	7.638	.232	7.670	-.032