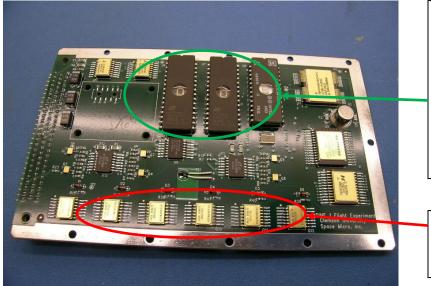
## **DIME-1 RADFETS**

Mission name: dsx-set\_dime1\_Radfets\_2019213T200035\_v01.csv Instrument: DIME-1 PI/Provider name: Dr Peter McNulty Institute: Clemson University Contact info: email: mpeter@g.clemson.edu Data format: CSV Data description (including how measurements were made): Read and record Radfet Vth Time resolution/cadence: Readings taken every 15 minutes Acknowledgement: Supported by NASA awards NNG04EE357C and 0978-204 2014361 Related publications: Most recent NSREC 2021 Conference Data publishing time: October 2021 Paper DOI or DOI of dataset if available: N/A Other relevant info:



Two STMicro 27C801 UVPROMs and one Intel 27C64 (right) programmed as dosimeters with different amounts of charge in individual FGMOS transistors

Five RadFETs shown without hemispherical shields attached.

DIME1 is shown with five operating RadFETS along the bottom of the board and three UVPROM dosimeters. The board has a mass of 0.2 kg and requires < 0.5 W to read the sensors. The RadFETS, circled, are referred to in the data files by number 2 through 6 starting on the left in the photo. The thickest Ta shield, 0.03", was mounted on 2 and the thinnest, 0.01", on 3. Al shields; thinnest, 0.125", was mounted on 4, next, 0.21875" on 5 and the thickest, 0.25" on 6. NASA daughter board not shown.

## DIME1\_ Experimental details

A constant current of 10 micro amps was passed through the RadFET to read the Threshold voltage Vth.

At all other times the RadFET was off.

It is below the recommended 12.7 micro amps for minimum temperature effects. The data is not corrected for temperature.

During the 1.75yrs there were many random shut down events and some longer planned power downs occurred. This causes disruptions in data collection and many files were corrupted on either the

uncontrolled shut down or start up. This appears as missing data or gaps longer than the 15minute scheduled reads.

A second event corrupting data was caused by the different clocks running data collection on the board and the system clock being out of synch. This results in a programmed time of 24 reads for the RADFETS being cut to 23 seconds or increased to 25 seconds. Not a big problem as long as the extraction of good data takes care of this factor. In other words simply setting an extraction to take place every 15 minutes and 24 seconds for each RadFET will result in the inclusion of bad data into your dataset.

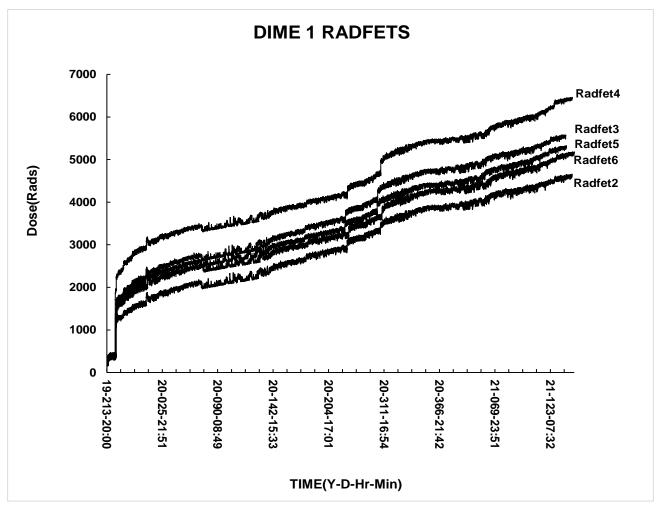


Figure 1 shows all radfets vs time

The next page shows the raw data and explains the different types of problems experienced and the pitfalls associated with extracting average values for the RADFETS over each 15 minute read cycle. Each radfet takes 23-25 seconds to read followed by a 3-5 second break when the next radfet is read. A full read of RadFET's 2,3,4,5 and 6 lasts approximately 1.5minutes.

## NO SPACES IN RAW DATA

010-212-0202-03-948       2.768       3.995       13       7         010-213-2002-06-560       2.768       3.905       13       13       7         010-213-2002-06-560       2.768       3.905       13       13       13       13         010-213-2012-2016-21,400       2.774       6.21       33       33       33       33         010-213-2016-23,411       2.774       6.21       33       33       33       14 <th>time (yr-d-hr-min)</th> <th>Vth (V)</th> <th>temp (deg C)</th> <th>dose_linear (rads)</th> <th>dose_lii</th> <th>n Ave (rads)</th> <th></th>	time (yr-d-hr-min)	Vth (V)	temp (deg C)	dose_linear (rads)	dose_lii	n Ave (rads)	
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2019-213-20.16.54.442       2.774       6.293       33         2019-213-20.313.0929       2.778       8.446       47         2019-213-20.313.0929       2.778       8.446       47         2019-213-20.313.0939       2.778       8.446       67         2019-213-20.313.0932       2.784       8.446       67         2019-213-20.314.0934       2.784       8.446       67         2019-213-20.314.0934       2.784       8.446       67         2019-213-20.314.0934       2.784       8.446       67         2019-213-20.46:30.428       2.788       10.415       80         2019-213-20.46:30.428       2.788       10.415       80         2019-213-20.46:31.439       2.788       10.415       80         2019-213-20.46:31.439       2.788       10.415       80         2019-213-20.46:31.430       2.788       10.415       80         2019-213-20.46:31.430       2.788       10.415       80         2019-213-20.46:31.432       2.788       10.415       80         2019-213-20.46:31.432       2.788       10.415       80         2019-213-20.46:31.432       2.788       10.415       80         2019-213-20.46:43.435       2.78					33		
2019-213-20:31:30 929         2.778         8.446         47           2019-213-20:31:31 929         2.778         8.446         47           2019-213-20:31:32 930         2.778         8.446         47           2019-213-20:31:35 932         2.784         8.446         67           2019-213-20:31:30 932         2.784         8.446         67           2019-213-20:41:35 932         2.784         8.446         67           2019-213-20:46:30:428         2.784         8.446         67           2019-213-20:46:30:428         2.788         10.415         80           2019-213-20:46:30:428         2.788         10.415         80           2019-213-20:46:30:438         2.788         10.415         80           2019-213-20:46:30:433         2.788         10.415         80           2019-213-20:46:30:433         2.788         10.415         80           2019-21:3-20:46:3:430         2.788         10.415         80           2019-21:3-20:46:3:433         2.788         10.415         80           2019-21:3-20:46:3:433         2.788         10.467         80           2019-21:3-20:46:3:433         2.788         10.467         80           2019-21:3-20:46:4:435					33		
2019-213-02.31:31.929       2.778       8.44       47         2019-213-02.31:32.930       2.778       8.446       47         2019-213-02.31:35.931       2.784       8.446       67         2019-213-02.31:35.932       2.784       8.446       67         2019-213-02.31:40.934       2.784       8.446       67         2019-213-02.31:40.934       2.784       8.446       67         2019-213-02.31:52.941       2.784       8.446       67         2019-213-02.46:30.428       2.788       10.415       80         2019-213-02.46:30.428       2.788       10.415       80         2019-213-02.46:30.432       2.788       10.415       80         2019-213-02.46:30.433       2.788       10.415       80         2019-213-02.46:30.433       2.788       10.415       80         2019-213-02.46:30.433       2.788       10.415       80         2019-213-02.46:30.433       2.788       10.467       80         2019-213-02.46:30.434       2.788       10.467       80         2019-213-20.46:44.435       2.788       10.467       80         2019-213-20.46:44.435       2.788       10.467       80         2019-213-21.04:45.438       <	2019-213-20:16:54.442	2.774	6.293		33		
2019-213-02:13:2930       2.778       8.446       47         2019-213-02:13:3931       2.784       8.446       67         2019-213-02:13:6932       2.784       8.446       67         2019-213-02:13:6932       2.784       8.446       67         2019-213-02:13:4936       2.784       8.446       67         2019-213-02:13:4936       2.784       8.446       67         2019-213-02:13:4936       2.784       8.446       67         2019-213-02:13:4936       2.788       10.415       80         2019-213-00:46:30:428       2.788       10.415       80         2019-213-00:46:30:428       2.788       10.415       80         2019-213-00:46:30:433       2.788       10.415       80         2019-213-20:46:30:433       2.788       10.415       80         2019-213-20:46:30:433       2.788       10.415       80         2019-213-20:46:42:435       2.788       10.415       80         2019-213-20:46:42:435       2.788       10.415       80         2019-213-20:46:42:435       2.788       10.467       80         2019-213-20:46:42:435       2.788       10.467       80         2019-213-20:46:42:435       2.788							
2019-213-203:135.931       2.784       8.44       67       60.3       May want to discard         2019-213-203:135.932       2.784       8.446       67       7       60.3       May want to discard         2019-213-203:14.0.934       2.784       8.446       67       7       60.3       May want to discard         2019-213-203:15.2941       2.784       8.446       67       7       60.3       May want to discard         2019-213-20:46:29.428       2.788       10.415       80       80       7       8         2019-213-20:46:30.428       2.788       10.415       80       7       8       7         2019-213-20:46:31.430       2.788       10.415       80       7       8       7         2019-213-20:46:32.430       2.788       10.415       80       80       Middle 10 reads       7         2019-213-20:46:34.33       2.788       10.415       80       80       10       10       80       10							
2019-213-203:136.0932       2.784       8.446       67       As INSUFFICIENT data         2019-213-203:14:0.934       2.784       8.446       67         2019-213-203:15:2.941       2.784       8.446       67         2019-213-203:15:2.941       2.788       10.415       80         2019-213-204:6:30.428       2.788       10.363       80         2019-213-204:6:30.428       2.788       10.415       80         2019-213-204:6:32.429       2.788       10.415       80         2019-213-204:6:32.430       2.788       10.415       80         2019-213-204:6:34.30       2.788       10.415       80         2019-213-204:6:34.33       2.788       10.415       80         2019-213-204:6:34.33       2.788       10.415       80         2019-213-204:6:4:343       2.788       10.415       80         2019-213-204:6:4:4:35       2.788       10.415       80         2019-213-204:6:4:4:37       2.788       10.467       80         2019-213-204:6:4:4:37       2.788       10.467       80         2019-213-204:6:4:4:37       2.788       10.467       80         2019-213-21:0:1:29:02       2.792       12.272       93         <	2019-213-20:31:33.931	2.784	8.4		67	(0.2	
2019-213-20:31-40.934       2.784       8.446       67         2019-213-20:31:32.941       2.784       8.446       67         2019-213-20:46:30-428       2.788       10.415       80         2019-213-20:46:30-428       2.788       10.415       80         2019-213-20:46:31.429       2.788       10.415       80         2019-213-20:46:31.429       2.788       10.415       80         2019-213-20:46:31.430       2.788       10.415       80         2019-213-20:46:31.430       2.788       10.415       80         2019-213-20:46:31.430       2.788       10.415       80         2019-213-20:46:31.430       2.788       10.415       80         2019-213-20:46:31.435       2.788       10.415       80         2019-213-20:46:41.435       2.788       10.467       80         2019-213-20:46:41.436       2.788       10.467       80         2019-213-20:46:41.436       2.792       12.272       93         2019-213-20:46:41.438       2.792       12.272       93         2019-213-20:46:41.438       2.792       12.272       93         2019-213-20:46:41.438       2.792       12.272       93         2019-213-21:01:32.992						60.3	
2019-213-20:31:52.941       2.784       8.446       67         2019-213-20:46:30,428       2.788       10.415       80         2019-213-20:46:31,429       2.788       10.415       80         2019-213-20:46:31,429       2.788       10.415       80         2019-213-20:46:31,430       2.788       10.415       80         2019-213-20:46:31,430       2.788       10.415       80         2019-213-20:46:37,432       2.788       10.415       80         2019-213-20:46:37,432       2.788       10.415       80         2019-213-20:46:37,432       2.788       10.415       80         2019-213-20:46:41,435       2.788       10.467       80         2019-213-20:46:44,435       2.788       10.467       80         2019-213-20:46:44,435       2.788       10.467       80         2019-213-20:46:44,338       2.788       10.467       80         2019-213-20:46:44,338       2.792       12.272       93         2019-213-20:46:44,338       2.792       12.272       93         2019-213-20:46:44,338       2.792       12.272       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:32.939	2019-213-20:31:40.934	2.784	8.446		67		
2019-213-20:46:29.428         2.788         10.415         80           2019-213-20:46:30.428         2.788         10.363         80           2019-213-20:46:31.429         2.788         10.415         80           2019-213-20:46:32.429         2.788         10.415         80           2019-213-20:46:33.430         2.788         10.415         80           2019-213-20:46:33.430         2.788         10.415         80           2019-213-20:46:34:32         2.788         10.415         80           2019-213-20:46:34:32         2.788         10.415         80           2019-213-20:46:34:33         2.788         10.467         80           2019-213-20:46:44:435         2.788         10.467         80           2019-213-20:46:44:435         2.788         10.467         80           2019-213-20:46:44:435         2.788         10.467         80           2019-213-20:46:44:435         2.788         10.467         80           2019-213-20:46:44:33         2.792         12.272         93           2019-213-20:46:44:38         2.792         12.272         93           2019-213-21:01:32.930         2.792         12.329         93           2019-213-21:01:32.931							
2019-213-20-46:30.428       2.788       10.363       80         2019-213-20-46:31.430       2.788       10.415       80         2019-213-20-46:32.429       2.788       10.415       80         2019-213-20-46:32.430       2.788       10.415       80         2019-213-20-46:37.430       2.788       10.415       80         2019-213-20-46:37.432       2.788       10.415       80         2019-213-20-46:34.430       2.788       10.415       80         2019-213-20-46:40.434       2.788       10.467       80         2019-213-20-46:44.435       2.788       10.467       80         2019-213-20-46:44.436       2.788       10.467       80         2019-213-20-46:44.438       2.788       10.467       80         2019-213-20-46:44.438       2.788       10.467       80         2019-213-20-46:44.438       2.782       10.467       80         2019-213-20-46:44.438       2.792       12.272       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:39.930       2.792       12.272       93         2019-213-21:01:39.931       2.792       12.272       93         2019-213-21:01:39.933							
2019-213-20-46:31.429       2.788       10.415       80         2019-213-20-46:33.430       2.788       10.407       80         2019-213-20-46:34.430       2.788       10.415       80         2019-213-20-46:34.430       2.788       10.415       80         2019-213-20-46:34.430       2.788       10.415       80         2019-213-20-46:42.432       2.788       10.415       80         2019-213-20-46:42.433       2.788       10.467       80         2019-213-20-46:42.435       2.788       10.467       80         2019-213-20-46:42.437       2.788       10.467       80         2019-213-20-46:42.437       2.788       10.467       80         2019-213-20-46:42.438       2.792       12.272       93         2019-213-20-46:44.438       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:29.928       2.792       12.272       93         2019-213-21:01:39.92       2.792       12.272       93         2019-213-21:01:39.931       2.792       12.272       93         2019-213-21:01:39.933       2.792       12.329       93         2019-213-21:01:38.933							
2019-213-20-46:33.430       2.788       10.467       80         2019-213-20-46:36.432       2.788       10.415       80         2019-213-20-46:36.432       2.788       10.415       80         2019-213-20-46:37.432       2.788       10.415       80         2019-213-20-46:39.433       2.788       10.415       80         2019-213-20-46:40.434       2.788       10.415       80         2019-213-20-46:42.435       2.788       10.467       80         2019-213-20-46:44.436       2.788       10.467       80         2019-213-20-46:44.436       2.788       10.467       80         2019-213-20-46:44.438       2.792       10.467       80         2019-213-20-46:44.438       2.792       12.272       93         2019-213-21:0:128.927       2.792       12.272       93         2019-213-21:0:128.927       2.792       12.272       93         2019-213-21:0:132.929       2.792       12.272       93         2019-213-21:0:132.929       2.792       12.272       93         2019-213-21:0:132.933       2.792       12.272       93         2019-213-21:0:132.933       2.792       12.272       93         2019-213-21:0:132.933	2019-213-20:46:31.429	2.788	10.415		80		
2019-213-20-46:34.430       2.788       10.415       80         2019-213-20-46:37.432       2.788       10.415       80         2019-213-20-46:37.432       2.788       10.415       80         2019-213-20-46:37.432       2.788       10.467       80         2019-213-20-46:40.434       2.788       10.467       80         2019-213-20-46:44.435       2.788       10.467       80         2019-213-20-46:44.436       2.788       10.467       80         2019-213-20-46:47.438       2.788       10.467       80         2019-213-20-46:47.438       2.788       10.467       80         2019-213-20-46:47.438       2.792       12.272       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:39.928       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93         2019-213-21:01:38.933							
2019-213-20:46:37,432       2.788       10.415       80       80       Take Average of         2019-213-20:46:40,434       2.788       10.467       80       Middle 10 reads         2019-213-20:46:40,434       2.788       10.467       80       Middle 10 reads         2019-213-20:46:44,435       2.788       10.467       80       Middle 10 reads         2019-213-20:46:44,436       2.788       10.467       80       Middle 10 reads         2019-213-20:46:44,437       2.788       10.467       80       Middle 10 reads         2019-213-20:46:44,437       2.788       10.467       80       Middle 10 reads         2019-213-20:46:44,438       2.792       12.272       93       Middle 10 reads         2019-213-21:01:27.927       2.792       12.272       93       Middle 10 reads         2019-213-21:01:32.929       2.792       12.272       93       Sin false reading as device         2019-213-21:01:33.930       2.792       12.	2019-213-20:46:34.430	2.788	10.415		80		
2019-213-20:46:49.433       2.788       10.467       80       Middle 10 reads         2019-213-20:46:40.434       2.788       10.467       80         2019-213-20:46:42.435       2.788       10.467       80         2019-213-20:46:42.436       2.788       10.467       80         2019-213-20:46:45.437       2.788       10.467       80         2019-213-20:46:44.438       2.788       10.467       80         2019-213-20:46:44.438       2.788       10.467       80         2019-213-20:46:44.438       2.792       12.272       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:39.928       2.792       12.272       93         2019-213-21:01:39.929       2.792       12.272       93         2019-213-21:01:39.930       2.792       12.272       93         2019-213-21:01:39.931       2.792       12.272       93         2019-213-21:01:39.933       2.792       12.272       93       Switches OFF         2019-213-21:01:49.933       2.792       12.272       93       Switches OFF         2019-213-21:01:49.935       2.792 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>80</td><td>Take Average of</td></t<>						80	Take Average of
2019-213-20:46:42.435       2.788       10.467       80         2019-213-20:46:42.436       2.788       10.415       80         2019-213-20:46:43.437       2.788       10.467       80         2019-213-20:46:4.437       2.788       10.467       80         2019-213-20:46:4.438       2.792       10.467       80         2019-213-20:46:4.438       2.792       10.467       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:32.999       2.792       12.272       93         2019-213-21:01:32.999       2.792       12.272       93         2019-213-21:01:32.999       2.792       12.272       93         2019-213-21:01:33.930       2.792       12.272       93         2019-213-21:01:33.931       2.792       12.272       93         2019-213-21:01:37.932       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93         2019-213-21:01:49.935       2.792       12.272       93       10 readings         2019-213-21:01:49.935       2.792       12.272       93       10 readings		2.788			80	00	
2019-213-20:46:44.436       2.788       10.415       80         2019-213-20:46:45.4377       2.788       10.467       80         2019-213-20:46:46.437       2.788       10.467       80         2019-213-20:46:46.437       2.788       10.467       80         2019-213-20:46:48.438       2.792       10.467       93         2019-213-20:10:127.927       2.792       12.272       93         2019-213-21:01:29.928       2.792       12.272       93         2019-213-21:01:32.929       2.792       12.272       93         2019-213-21:01:32.929       2.792       12.272       93         2019-213-21:01:32.929       2.792       12.329       93         2019-213-21:01:32.930       2.792       12.272       93         2019-213-21:01:32.930       2.792       12.272       93         2019-213-21:01:33.930       2.792       12.272       93         2019-213-21:01:32.931       2.792       12.272       93         2019-213-21:01:39.933       2.792       12.272       93         2019-213-21:01:49.935       2.792       12.272       93       Take AVERAGE of middle         2019-213-21:01:49.935       2.792       12.272       93       Simil							
2019-213-20:46:46.437       2.788       10.467       80         2019-213-20:46:48.438       2.792       10.467       93         2019-213-20:46:48.438       2.792       10.467       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:29.928       2.792       12.214       93         2019-213-21:01:31.929       2.792       12.272       93         2019-213-21:01:31.929       2.792       12.272       93         2019-213-21:01:31.929       2.792       12.272       93         2019-213-21:01:32.929       2.792       12.329       93         2019-213-21:01:35.931       2.792       12.272       93         2019-213-21:01:35.931       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93       Sialse reading as device         2019-213-21:01:38.933       2.792       12.272       93       10 reading S         2019-213-21:01:49.935       2.792       12.272       93       10 reading S         2019-213-21:01:49.935       2.792       12.272       93       10 reading S         2019-213-21:01:49.9							
2019-213-20:46:47.438       2.788       10.467       80         2019-213-20:46:48.438       2.792       10.467       93         2019-213-20:01:27.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:29.928       2.792       12.272       93         2019-213-21:01:39.929       2.792       12.272       93         2019-213-21:01:39.929       2.792       12.272       93         2019-213-21:01:39.929       2.792       12.272       93         2019-213-21:01:39.930       2.792       12.272       93         2019-213-21:01:39.931       2.792       12.272       93         2019-213-21:01:39.933       2.792       12.272       93       Take AVERAGE of middle         2019-213-21:01:39.933       2.792       12.272       93       Take AVERAGE of middle         2019-213-21:01:41.935       2.792       12.272       93       Take AVERAGE of middle         2019-213-21:01:42.935       2.792       12.272       93       Take AVERAGE of middle         2019-213-21:01:42.935       2.792       12.272       93       Similarly on START UP,         2019-213-21:01:43.936       2.792       12.272							
2019-213-20:46:48.438       2.792       10.467       93         2019-213-21:01:27.927       2.792       12.272       93         2019-213-21:01:28.927       2.792       12.272       93         2019-213-21:01:29.928       2.792       12.272       93         2019-213-21:01:31.929       2.792       12.272       93         2019-213-21:01:31.929       2.792       12.272       93         2019-213-21:01:32.929       2.792       12.272       93         2019-213-21:01:34.930       2.792       12.272       93         2019-213-21:01:34.930       2.792       12.272       93         2019-213-21:01:35.931       2.792       12.272       93         2019-213-21:01:38.933       2.792       12.272       93       Switches OFF         2019-213-21:01:39.933       2.792       12.272       93       93       10 readings         2019-213-21:01:40.934       2.792       12.272       93       93       10 readings         2019-213-21:01:42.935       2.792       12.272       93       93       10 readings         2019-213-21:01:42.935       2.792       12.272       93       bimlarly on START UP,         2019-213-21:01:44.936       2.792       12							
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2019-213-21:16:26.425	2.792	13.457	93
2019-213-21:16:27.426	2.798	13.519	113

It is necessary to parse the data into the 15minute blocks of reads. Many reads may be missing and many individual reads of a Radfet will not contain the full 24-25 values as can be seen in the above page of typical early data. The 2021 data is generally better and agrees more closely with the description.

The DIME experiment telemetered data is stored at the Nasa Space Physics Data facility (SPDF)

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