

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) Enhancements and Bug Fixes (GUI) May 2013

THEMIS and ARTEMIS Science Data Analysis Software (TDAS) - Post v7.0

1. The following enhancements were made to the TDAS GUI:

- Axis titles and subtitles can now be added to plots in the TDAS GUI.
- Velocity slices enhancements: Multiple slices plotted with fixed range (GUI only).
- Tab key navigation now supported in most GUI panels
- Several TDAS GUI panels updated to include more intuitive “Apply to All” functionality for changing multiple panels, pages, or other display elements.
- A console error that occurred when selecting instrument type “None” in the GUI “Load THEMIS Data” panel was fixed.
- TDAS now implements some SPEDAS (Space Physics Environment Data Analysis System) API routines to allow plugin developers to integrate their code with the TDAS GUI.
- A “terms of use” dialog is now available as a SPEDAS API function. Plugin authors can use this function to display a message on the IDL console, or as a popup in the GUI, either once per IDL session or once per plugin installation, rather than each time that plugin's load routine is invoked.
- A SPEDAS API for adding new plugins to the GUI “Load Data” panel has been implemented. New tabs can now be added to the “Load Data” panel by editing a simple plain text configuration file, rather than modifying IDL code.
- It is now possible to delete variables directly from the GUI “Data Processing” panel.
- An error that occurred when the GUI page size is set to a value that is too large for IDL to render is now handled more gracefully.
- Improved error detection and handling for bad dates in the GUI Load Data panels.
- A “Legend options” menu has been added, allowing the user to control the formatting of legend timestamps and data values.
- Improved tick placement algorithms for X and Y axes.
- The TDAS Users Guide is now distributed with TDAS and can be opened directly from the Help menu.
- Some redundant layout controls were removed from the panel options.
- Removed Symbol and Monospace Symbol fonts – most text displays now support embedded IDL formatting codes.
- Configuration options panel now allows saving of ISTP and WIND download parameters.
- Status bar and history window messages are now timestamped.
- Some IDL version-specific code was added to improve the GUI operation under IDL 8 and above.
- OMNI data can now be loaded from the GUI “Load Data” panel.