

PACKAGE ID - 001327MLTPL00 SRFGUI/SNDGUI

KWIC TITLE - A Visualization Tool for Meteorological Data

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LIMITATION CODE -COPY **AUDIENCE CODE** - LIM

COMPLETION DATE - 07/06/1998 **PUBLICATION DATE** - 07/06/1998

DESCRIPTION - Graphical user interfaces (GUIs) have been built to visualize surface and upper-meteorology data for any global location and time of interest. The user selects a domain (geographic location and bounding range) and time of interest using the Gui, and a file containing coded observations is accessed and decoded. two styles of the GUI have been built, depending on whether surface or upper air visualization is desired. The former indicates weather conditions near the earth's surface, while the latter illustrates a vertical profile of atmospheric conditions.

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - Media Directory: Software Abstract; Software Supporting Documentation; Media Includes Source Code, Executable Module;/1 CD Rom

METHOD OF SOLUTION - A graphical user interface is built which prompts the user to select a time and geographical location. Depending on these selections, meteorological datafiles are accessed and decoded. The data are then displayed with the GUI.

COMPUTER - MLT-PLTFM

OPERATING SYSTEMS - Unix, Windows NT

PROGRAMMING LANGUAGES - IDL

SOFTWARE LIMITATIONS - Must have IDL license to use

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - Surface and/or upper meteorological data are usually not archived. Thus, plots of this information are typically restricted to the current time. If data is archived, plots of the data are restricted to a given location (or station). This GUI design is unique in that the user may select any global location, domain size, and time (for which data has been archived) from which to view meteorological information.

RELATED SOFTWARE - Must have access to the meteorological database (obtained from Weather Services International).

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RELATED SOFTWARE - (CONT)

OTHER PROG/OPER SYS INFO - Appearance of GUI may differ from one computer architecture to another.

HARDWARE REQS - For IDL v5.1, recommended minimums: IBM RISC/6000: 80 Mb disk space, 30 Mb RAM. PC: 80 Mb disk space, 30 Mb RAM, 256 color capability and a high resolution graphics card.

TIME REQUIREMENTS - On the order of 1 to 10 minutes.

ABSTRACT STATUS - Released AS-IS 12/10/1999.

SUBJECT CLASS CODE - Z

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
S CODES
METEOROLOGY
DATA

EDB SUBJECT CATEGORIES -
990200

SPONSOR - DOE

PACKAGE TYPE - AS - IS