LFM-MIX-1.0.3

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LFM-MIX 1.0.3

Released April 23, 2009

Download:

- LFM-MIX-1_0_3-pre_valid.tar.gz (Login required; email schmitt <at> ucar <dot> edu for an account)
  md5 checksum: dc2fbd15662ddc508a701c254177ec68

- To upgrade from a previous release:
    - Note: You should be able to re-use any prerequisites built for a previous LFM-MIX release.
    - un-tar the code into `LFM-MIX-1_0_3-pre_valid`
    - copy your `Make.$MACHINE` file into `LFM-MIX-1_0_3-pre_valid/env/`
    - To ensure the install works properly on your system, we recommend that you run the standard tests, starting with the unit tests, and proceed to test the LFM and LFM-MIX.

Change log

- Repository revision: 861
- New Features:
    - New compiler flag (-DNO_HARD_WALL) allowing for transparent inner boundary, although we do not support this feature and do not recommend turning it on (Revision 735).
- Changes
    - Merged CMIT branch changes into trunk (Revision 716). Note: LFM-MIX 1.0.3 does not include all the code necessary to run CMIT. Stay tuned for an upcoming release of CMIT.
        - Refactored MIX main loop
        - Added InterComm and File Exchange interfaces for CMIT
        - New unit tests & regression runs
        - ... and lots more! See revision 716 commit log for more information.
    - Bug fixes:
    - Fixed a case where InterComm LFM-MIX could deadlock in certain situations (Revisions 781, 772).
    - Adding closing "dobule quote" to IDL routines for processing solar wind input (Revision 780).
    - Updated standard ionosphere.param files included in the repository (Revision 755).
    - Vx is no longer overwritten by MIX (revision 735)
    - Major bug fix: calculation of the potential electric field around the axis (Revision 692 in CMIT branch, reintegrated to LFM-MIX trunk in Revision 716).