

Using LMDZ & *WRFMeas*: A documentation

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1 Introduction

This document describes how to compile and use the system where LMDZ physics have been integrated into WRF model (http://web.lmd.jussieu.fr/trac-LMDZ_WRF), which at the same time has the *WRFMeas* modifications (<http://www.lmd.jussieu.fr/~lflmd/>).

2 Compilation

Compilation in cyclad for a domain of 80×90 grid points with 39 vertical levels. Starting from [/data/lfita/DATA/WRF/WRFV3.3/WRFmeas_LMDZ/gfortran/serial](#)

- Getting the WRF_LMDZ code:
`svn co http://svn.lmd.jussieu.fr/LMDZ_WRF/trunk/WRFV3 WRFmeas_80x90x39`
- Getting the *WRFMeas* code:
`svn co http://svn.lmd.jussieu.fr/LMDZ_WRF/branches/LMDZ_WRFmeas/WRFV3 WRFmeas`
- Getting to the folder to compile:
`cd WRFmeas_80x90x39`
- Copying content from *WRFMeas* folder:
`cp ../WRFmeas/configure.serial_lmdz2wrf.lmd_WRFmeas.ciclad.wrf ./`
`cp ../WRFmeas/frame/* frame`
`cp ../WRFmeas/Registry/* Registry/`
`cp ../WRFmeas/share/* share`
- Linking right version of the 'Registry' files:
`cd Registry/`
`rm registry.dimspec`
`ln -s registry.dimspec.lmdz+WRFmeas ./registry.dimspec`
`rm Registry.EM`
`ln -s ln -s Registry.EM.LMDZ+WRFmeas ./Registry.EM`
- Compile WRF_LMDZ as usual¹, but using:
`cp configure.serial_lmdz2wrf.lmd_WRFmeas.ciclad.wrf configure.wrf`

¹http://web.lmd.jussieu.fr/trac-LMDZ_WRF/wiki/WikiCompilation