

ecCodes version 2.5.0 released

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Changes for Version 2.5.0

Contributions

- [\[ECC-518\]](#) - grib_to_netcdf: support deflate option for netCDF-4 output formats
Thanks to Antonio S. Cofino Gonzalez.
New options provided for grib_to_netcdf to support deflate and shuffle options for netCDF-4 output formats.

New Features/Improvements

- [\[ECC-419\]](#) - Simple bufr_dump
A "-p" option is provided for bufr_dump to allow a "plain" mode dump, just listing key=value
- [\[ECC-533\]](#) - Implement grib_find_nearest() for Polar Stereographic grid_type
- [\[ECC-476\]](#) - Add new function codes_count_in_filename which takes a path
- [\[ECC-504\]](#) - New runoff parameters for system 5 seasonal forecast
- [\[ECC-534\]](#) - Add two parameters for river discharge in the last 6 and 24 hrs
- [\[ECC-537\]](#) - Update the local concepts for DWD (2017.09)
- [\[ECC-548\]](#) - Add GRIB2 Product Definition Templates 4.67 and 4.68
- [\[ECC-443\]](#) - netcdf4 compression with grib_to_netcdf
- [\[ECC-485\]](#) - Add support for non-integer size for the 'codetable' statement
- [\[ECC-505\]](#) - Add BUFR local descriptors from EUMETSAT
- [\[ECC-509\]](#) - Add option to skip install of fortran modules
- [\[ECC-468\]](#) - tables seem to be installed as files instead of symbolic links
- [\[ECC-500\]](#) - Performance: grib2: grib_ls using local parameter takes longer than WMO parameter
- [\[ECC-508\]](#) - Add option to not install grib definitions and samples
- [\[ECC-510\]](#) - Add new MARS class for ERA5 land surface parameters
- [\[ECC-526\]](#) - typeOfLevel key should include typeOfFirstFixedSurface == 10 (Entire atmosphere)
- [\[ECC-528\]](#) - Add wmo_read_any_from_stream_malloc()
- [\[ECC-540\]](#) - When using MEMFS the default should be not to install samples and definitions

Bug Fixes

- [\[ECC-532\]](#) - Problems with bufr_dump: taking all available memory
- [\[ECC-435\]](#) - CRASH: Python keys iterator on GRIB message
- [\[ECC-473\]](#) - isOctahedral does not work for non-global gaussian grids
- [\[ECC-478\]](#) - Scaling values using grib_set ignores values=9999. when bitmapPresent=0
- [\[ECC-480\]](#) - grib_filter slower on large GRIB file compared with grib_api
- [\[ECC-490\]](#) - GRIB-API -> ecCodes F90 migration issue
- [\[ECC-492\]](#) - bufr_dump problems for extracted Aeolus BUFR file
- [\[ECC-501\]](#) - GRIB2 encoding: longitude values should be 0 to 360
- [\[ECC-503\]](#) - Fortran interface: status argument of keys_iterator_next should not be optional
- [\[ECC-511\]](#) - Invalid data read from FRET grib2 files with grid_complex_spatial_differencing packing
- [\[ECC-515\]](#) - CRASH: reading very large GRIB1 message
- [\[ECC-517\]](#) - crash/error setting inputExtendedDelayedDescriptorReplicationFactor greater than 486
- [\[ECC-521\]](#) - grib_get_data for Lambert Conformal: incorrect if adjacent rows scan in the opposite directions
- [\[ECC-522\]](#) - Lat/Lon iterator gives wrong result for some scanning and organisation modes
- [\[ECC-524\]](#) - grib_iterator behaves strangely for lambert representation
- [\[ECC-529\]](#) - grib_get_data for polar stereographic gets wrong lat and long
- [\[ECC-535\]](#) - Workaround for internal compiler error in memfs.c on Cray
- [\[ECC-542\]](#) - Enabling memfs searches for Python include dir
- [\[ECC-545\]](#) - Assertion failure retrieving grib key