

ecCodes version 2.3.0 released

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Changes for Version 2.3.0

Contributions

- [\[ECC-441\]](#) - MeteoFrance contribution: GRIB second order packing
- [\[ECC-458\]](#) - MeteoFrance contribution: GRIB spectral complex packing
- [\[ECC-461\]](#) - Python: GribMessage class to allow multiple keys to be set

New Features/Improvements

- [\[ECC-475\]](#) - BUFR WMO version 28 and local tables to be added to ecCodes
- [\[ECC-472\]](#) - Update GRIB2 definitions with the latest WMO V19.0.0 code tables/templates
- [\[ECC-452\]](#) - codes_bufc_copy_data missing in Pythonic interface
- [\[ECC-460\]](#) - Add centre codes for New Delhi (dems/vabb)
- [\[ECC-454\]](#) - Add new parameters for land reanalysis (ERA5-Land)
- [\[ECC-466\]](#) - Add two parameters for evaporation in the last 6 and 24 hrs
- [\[ECC-437\]](#) - tigge_check: bitmap fields with only undefined values
- [\[ECC-449\]](#) - Remove unused "unpack" data member from grib_context
- [\[ECC-456\]](#) - type=oi for UERRA class
- [\[ECC-457\]](#) - GRIB1 to GRIB2 conversion: total precipitation
- [\[ECC-459\]](#) - GRIB1 to GRIB2 conversion: Local Definition 5 (Forecast probability data)
- [\[ECC-465\]](#) - Key 'deleteLocalDefinition' works for GRIB edition 1 only

Bug Fixes

- [\[ECC-438\]](#) - stepUnits throws errors when processing GRIBs with stepUnit != 1 (hour)
- [\[ECC-444\]](#) - eccodes fails to build when both fmemopen and funopen are available
- [\[ECC-447\]](#) - ecCodes Python packages not added to the installation manifest
- [\[ECC-448\]](#) - codes_new_from_message does not set product_kind on handle
- [\[ECC-451\]](#) - new pythonic interface segv
- [\[ECC-453\]](#) - grib_set fails randomly: Unable to set stepRange: end must be equal to start when timeRangeIndicator=10
- [\[ECC-467\]](#) - JRA55: map indicatorOfTypeOfLevel=101 to mars.levtype='sfc'