

OPERA FM94-BUFR Encoding and Decoding Software

Release notes for Version 3.1

This release of the BUFR software includes the source code, BUFR tables, documentation and examples. Please note that the BUFR tables are a result of a different OPERA project and can be updated in the future independent of a software release. The latest local tables are version 8 for originating centre 247.

What's new in this version:

Command line option “-s1” for encbufr and decbufr to select the name of the section 1 file

Command line option “-show” for decbufr to display information about a certain descriptor or print a list of all descriptors

Support for bitmap file in PGM P5 format, selection and detection of this format is based on file ending “.pgm” or “.PGM

Change of reference value 2 3 y implemented

New data modification descriptors 2 5 y, 2 6 y and 2 21 y to 2 37 y (all from BUFR edition 3) implemented

Decoding of optional section

Decoding of several subsets (encoding is also possible if using the library)

Local table selection improved: the sub-centre is ignored if no matching file is found.

Command line option “-e4” for encbufr to use BUFR edition 4

API for run-length encoding/decoding of float values

Support for data file with 4 byte float in the platform native format (memory dump of float array)

Table driven definition of the special OPERA bitmap descriptors allows extension of list of special descriptors without source-code changes

ODIM polar data (with zlib-compression)