BUFRDC encoding/decoding software

ECMWF BUFRDC software is used for encoding and decoding WMO FM-94 BUFR code messages. As a part of software there are tools for conversion between BUFR and CREX .

- Description
- SYNOP to BUFR conversion
- Download

Description

The WMO FM-94 BUFR, **B**inary **U**niversal **F**orm for the **R**epresentation of Meteorological data, is a binary code designed to represent, employing a continuous binary stream, any meteorological data. It has been designed to achieve efficient exchange and storage of meteorological and oceanographic data. It is self defining, table driven and very flexible data representation system, especially for huge volumes of data.

ECMWF provide BUFR User's Guide (pdf) and BUFR Reference Manual (pdf) that describes latest BUFR tables and ECMWF observation types and subtypes. For each subtype there is a template describing the observation.

The first version of ECMWF BUFRDC software was designed and implemented in 1987. A great deal of experience has been gathered in handling binary coded observations since then.

SYNOP to BUFR conversion

From version 000383 there is tool available for conversion WMO FM-12 SYNOP code to FM-94 BUFR code

Download

Check the Releases page to see all available versions and the History of BUFRDC changes page for the release notes.

The following instructions explain how to build the library and install:

1. Run first build_library script, to build the library
2. Then the install script, to install library and BUFR tables.