

README

BUFR data description

Compared to previous releases

The BUFR sequences have not changed, except for those related to **IASI-L1D** and **IASI-L1C**.

However, the *content* of the data has changed to reflect the updates introduced in the netCDF file and has been reviewed to be more representative.

Decoding the data

The data provided ranges from version 39 to version 45; please make sure you have all the WMO tables up to date.

IASI-L1D and IASI-L1C use **local descriptor table 1**. You will need to add the local codes as described below.

Local tables and information

If you are using **ecCodes**:

```
echo $ECCODES_DEFINITION_PATH # /usr/local/share/ecCodes/definitions/
```

- **Sequence definition file sequence.def** – the new sequence that does not yet exist in WMO Code Table D.
- **Element table element.table** – the new elements that do not yet exist in WMO Code Table B.

For \$ECCODES_DEFINITION_PATH/bufr/tables/0/local/1/254/0/element.table: N/A For

\$ECCODES_DEFINITION_PATH/bufr/tables/0/local/1/254/0/sequence.def:

```
"310101" = [001007, 001035, 001034, 002019, 002020, 004001, 004002, 004003, 004004, 004005, 202131, 201138, 004006, 201000, 202000, 005001, 006001, 007024, 005021, 007025, 005022, 005043, 005040, 201133, 005041, 201000, 202126, 007001, 202000, 033113, 002019, 111000, 031002, 005060, 005061, 020083, 106000, 031002, 005042, 008023, 014044, 008023, 014044, 008023, 008072, 020083, 008072, 020083, 008072, 020083, 008072, 020083, 008072, 020083, 008072, 008029, 020083, 008029, 020083, 008029, 020083, 008029, 020083, 008029, 020083, 008029, 020083, 008029, 020083, 008029, 020083, 008029]
```

```
"310102" = [310101, 002019, 105170, 104100, 201137, 005042, 201000, 014044]
```

```
"310103" = [310101, 002019, 109004, 201129, 025140, 025141, 201000, 040026, 040016, 101000, 031002, 040017]
```

You can now decode your data:

```
bufr_dump <your_bufr_file>
```

Data information

With required local descriptors

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-1D-PCS_C-EUMT_20170616120000_G_D_20070912091715_20070912091945_T_N____.bin

File size (bytes)	Master table version	Origin centre
72412	45	eums

- Local descriptor version: 1
- Template/Sequence-D used: 310103

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-1C-RAD_C_EUMT_20231214193143_G_O_20070912084636_20070912084754_T_N____.bin

File size (bytes)	Master table version	Origin centre
587624	45	eums

- Local descriptor version: 1
- Template/Sequence-D used: 310102

Without required local descriptors

W_XX-EUMETSAT-Darmstadt,SAT,SGB1-ICI-1B-RAD_C_EUMT_20241009111500_G_D_20070912102618_20070912102848_T_N____.bin

File size (bytes)	Master table version	Origin centre
10467607	40	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-CLD_C_EUMT_20240604092727_G_D_20070912105305_20070912105403_T_B____.bin

File size (bytes)	Master table version	Origin centre
29046902	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-OCA_C_EUMT_20240604162251_G_D_20070912095804_20070912095904_T_B____.bin

File size (bytes)	Master table version	Origin centre
85443434	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-OCA_C_EUMT_20240604162251_G_D_20070912095804_20070912095904_T_B____.bin

File size (bytes)	Master table version	Origin centre
3451560	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-CO__C_EUMT_20170616120000_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
730296	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-CO__C_EUMT_20240111094308_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
730296	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-NAC_C_EUMT_20240111094312_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
743689	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-NAC_C_EUMT_20170616120000_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
743689	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-TWV_C_EUMT_20240111094243_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
634044	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-TWV_C_EUMT_20170616120000_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
634044	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-GHG_C_EUMT_20240111094305_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
97598	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-GHG_C_EUMT_20170616120000_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
97598	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-SO2_C_EUMT_20170616120000_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
49176	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-SO2_C_EUMT_20240111094321_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
49176	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-AMV_C_EUMT_20240516162611_G_D_20070912120504_20070912120604_T_B____.bin

File size (bytes)	Master table version	Origin centre
172748	40	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGB1-MWI-1B-RAD_C_EUMT_20241008221500_G_D_20080223092902_20080223093132_T_N____.bin

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-RO_-1B-BND_C_EUMT_20230711073145_G_D_20080223091207_20080223091841_T_N_G17.bin

File size (bytes)	Master table version	Origin centre
10466	39	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-O3__C_EUMT_20170616120000_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
2187089	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-O3__C_EUMT_20240111094317_G_D_20070912101146_20070912101417_T_N____.bin

File size (bytes)	Master table version	Origin centre
2187089	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-MWS-1B-RAD_C_EUMT_20241111000000_G_D_20240224182105_20070912084621_T_N____.bin

File size (bytes)	Master table version	Origin centre
570100	40	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGB1-SCA-1B-SZF_C_EUMT_20190101000030_G_O_20111021080359_20111021080459_O_N____.bin

File size (bytes)	Master table version	Origin centre
9615514	40	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-CLD_C_EUMT_20170616120000_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
55100	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-CLD_C_EUMT_20240111094324_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
55100	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-SFC_C_EUMT_20240111094301_G_O_20070912101146_20070912101417_O_N____.bin

File size (bytes)	Master table version	Origin centre
66850	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-IAS-02-SFC_C_EUMT_20170616120000_G_O_20070912101146_20070912101417_O_N____.bin

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-WVI_C_EUMT_20240604100619_G_D_20070912114804_20070912114904_T_B____.bin

File size (bytes)	Master table version	Origin centre
4679816	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGA1-VII-02-CTP_C_EUMT_20240604145928_G_D_20070912091105_20070912091203_T_B____.bin

File size (bytes)	Master table version	Origin centre
47164845	41	eums

W_XX-EUMETSAT-Darmstadt,SAT,SGB1-SCA-1B-SZR_C_EUMT_20190101000030_G_O_20111021080900_20111021080959_O_N____.bin

File size (bytes)	Master table version	Origin centre
151991	40	eums