

**SPECIFICATIONS OF SECTIONS****Notes:**

- (1) Each section contains one or more groups of characters separated by one separator character.
- (2) In the following, each group is numbered as group 1, group 2 and so on, from the beginning of the section.
- (3) CREX edition 1 may be used up to the first Tuesday of November 2012. Edition 2 may be used as from 2 November 2005. A CREX message shall not mix features of both editions; the content shall be consistent and in accordance with a single edition. It is recommended to use, if possible, the latest edition of CREX, i.e. number 2, after 2 November 2005. Specific features for editions 1 and 2, when different, will be clearly indicated in sequence.
- (4) When accuracy of the time does not define a time unit, then the value for this unit is set to zero (e.g., SYNOP observation at 09 UTC, then minute = 0, second = 0).
- (5) For Master Table 0, the master table version numbers are as follows:
 

0	Experimental
1	Version implemented on 3 May 2000
2	Version implemented on 7 November 2001
3	Version implemented on 4 November 2003
4	Version implemented on 2 November 2005
5	Version implemented on 7 November 2007
6	Version implemented on 4 November 2009
7	Version implemented on 15 September 2010
8–15	Not used
16	Version implemented on 4 May 2011
17	Version implemented on 2 November 2011
18	Pre-operational to be implemented by next amendment

**Section 0 – Indicator section**

Group No.	Contents	Meaning
1	CREX	CREX: Beginning of the CREX message

**Section 1 – Data description section for CREX edition 1**

Group No.	Contents	Meaning
1	Ttteevv	T: Indicator for CREX tables tt: CREX Master Table used (00 for WMO standard FM 95 CREX tables) ee: CREX edition number (01) vv: CREX Master Table version number (see Note 5 above)
2	Annn	A: Indicator for CREX Table A entry nnn: Data category from CREX Table A
3 to n	Bxyyyy, Cxyyyy, Dxyyyy and/or Rxyyyy	B, C, D: Indicators for CREX Tables B, C, D entries xxyyy: 5 digits which indicate references from CREX Tables B, C and/or D R: Indicator for replication xx: Number of replicated descriptors yyy: Number of replications (delayed replication if yyy = 0)
(n + 1)	(E)	E: Optional check digit indicator

**Section 1 – Data description section for CREX edition 2**

Group No.	Contents	Meaning
1	Ttteevvbbww	T: Indicator for CREX tables tt: CREX Master Table used (00 for WMO standard FM 95 CREX tables) ee: CREX edition number (02) vv: CREX Master Table version number (see Note 5 above) bb: BUFR Master Table version number used (see Note 5 under section 1 of the BUFR regulations for edition 4) ww: Version number of local table
2	Annnmmm	A: Indicator for CREX Table A entry nnn: Data category from CREX Table A mmm: International data sub-category from Common Code table C-13
3	Pooooopp	P: Indicator for originating centre ooooo: Originating centre from Common Code table C-11 ppp: Originating sub-centre from Common Code table C-12
4	Uuu	U: Indicator for sequence number of message uu: Update sequence number (00 for original message, uu for updated version)
5	Ssss	S: Indicator for number of subsets sss: Number of subsets included in the report

## FM 95 CREX

Group No.	Contents	Meaning
6	Yyyyymmdd	Y: Indicator for date yyyy: Year mm: Month dd: Day
7	Hhhnn	H: Indicator for time hh: Hour nn: Minute
8 to n	Bxyyy, Cxyyy, Dxyyy, and/or Rxyyy	B,C,D: Indicators for CREX Tables B, C, D entries xyyy: 5 digits each which indicate references from CREX Tables B, C, and/or D R: Indicator for replication xx: Number of replicated descriptors yyy: Number of replications (delayed replication if yyy = 0)
(n + 1)	(E)	E: Optional check digit indicator

Most typical time for the CREX message content (see Note 4 above)

### Section 2 – Data section

Group No.	Contents	Meaning
1 to m	(d) Data values	d: Optional check digit Data : Data values corresponding to section 1 descriptors values

### Section 3 – Optional section

Group No.	Contents	Meaning
1	SUPP	SUPP: The four letters SUPP indicate the presence of a supplementary optional section
2 to p	Items for local use	Additional items for local use developed by the generating centre

### Section 4 – End section

Group No.	Contents	Meaning
1	7777	7777: End of CREX

## VISUALIZATION OF CREX CODE FORM

(Bold characters are fixed alphanumeric characters; features in brackets are optional)

### For edition 1:

**CREX++**

**Ttteevv Annn**

**R**xxxxx ..... (E)++

or **B**xxxxx

or **C**xxxxx

or **D**xxxxx

((d)Data values .....+)

.....

.....

((d)Data values .....+)

(d)Data values .....++

**(SUPP** Items for local use .....++)

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### For edition 2:

**CREX++**

**Ttteevvbbww Annnmmm Poooooppp Uuu Ssss Yyyymmdd Hhhnn**

**R**xxxxx ..... (E)++

or **B**xxxxx

or **C**xxxxx

or **D**xxxxx

((d)Data values .....+)

.....

.....

((d)Data values .....+)

(d)Data values .....++

**(SUPP** Items for local use .....++)

7777

Note: If there is more than one subset, there shall be one "+" padded at the end of each subset, except for the last one (see Regulations 95.1.4, 95.1.5 and 95.4.1).