

## Attachment II

### LIST OF ALPHANUMERIC CODE TABLES RELATED TO BUFR AND CREX CODE TABLES AND FLAG TABLES

| BUFR/CREX<br>code or flag<br>table | Related code table,<br>regulation or code form<br>in alphanumeric codes      | Remarks                                   |
|------------------------------------|--|---|
| 0 01 003                           | A <sub>1</sub> – Code table 0161   | —   |
| 0 01 007                           | I <sub>6</sub> I <sub>6</sub> I <sub>6</sub>                                 | Common Code table C–5                     |
| 0 01 031                           | F <sub>1</sub> F <sub>2</sub> , F <sub>3</sub> F <sub>3</sub> F <sub>3</sub> | Common Code table C–1                     |
| 0 01 032                           | —  | Defined by originating/generating centre  |
| 0 01 033                           | F <sub>1</sub> F <sub>2</sub> , F <sub>3</sub> F <sub>3</sub> F <sub>3</sub> | Common Code table C–1                     |
| 0 01 034                           | F <sub>1</sub> F <sub>2</sub> , F <sub>3</sub> F <sub>3</sub> F <sub>3</sub> | See Common Code table C–12                |
| 0 02 001*                          | i <sub>x</sub> – Code table 1860   | —   |
| 0 02 002                           | i <sub>u</sub> – Code table 1853   | —   |
| 0 02 003                           | a <sub>4</sub> – Code table 0265   | —   |
| 0 02 004                           | i <sub>E</sub> – Code table 1806   | —   |
| 0 02 011                           | r <sub>a</sub> r <sub>a</sub> – Code table 3685 (0–89)                       | Defined in common Code table C–2          |
| 0 02 012                           | —  | To be developed                           |
| 0 02 013                           | s <sub>r</sub> – Code table 3849   | —   |
| 0 02 014                           | s <sub>a</sub> s <sub>a</sub> – Code table 3872                              | —   |
| 0 02 015                           | r <sub>a</sub> r <sub>a</sub> – Code table 3685 (91–95)                      | Defined in common Code table C–2          |
| 0 02 016                           | —  | —   |
| 0 02 019                           | —  | Common Code table C-8                     |
| 0 02 021                           | I <sub>3</sub>   | —   |
| 0 02 022                           | I <sub>4</sub> – Code table 1765   | —   |
| 0 02 023                           | w <sub>i</sub> – Code table 4639   | —   |
| 0 02 030                           | k <sub>5</sub> – Code table 2266   | —   |
| 0 02 031                           | k <sub>3</sub> – Code table 2264   | —   |
|                                    | k <sub>4</sub> – Code table 2265   |   |
| 0 02 032                           | k <sub>1</sub> – Code table 2262   | Numerical variation in each table         |
| 0 02 033                           | k <sub>2</sub> – Code table 2263   | —   |
| 0 02 034                           | X <sub>t</sub> X <sub>t</sub> – Code table 4780                              | —   |
| 0 02 038                           | s <sub>s</sub> – Code table 3850   | —   |
| 0 02 039                           | s <sub>w</sub> – Code table 3855   | —   |
| 0 02 040                           | k <sub>6</sub> – Code table 2267   | —   |
| 0 02 042                           | i <sub>c</sub> – Code table 1833   | —   |
| 0 02 044                           | I <sub>m</sub> – Code table 1744   | —   |
| 0 02 045                           | I <sub>p</sub> – Code table 1747   | —   |
| 0 02 051                           | i <sub>y</sub> – Code table 1857   | —   |
| 0 02 061                           | s <sub>1</sub> – Code table 3866   | —   |
| 0 02 062                           | s <sub>2</sub> – Code table 3867   | —   |
| 0 02 149                           | B <sub>i</sub> B <sub>t</sub> – Code table 0370                              | Additional entries in Code table 0 02 149 |
| 0 02 160                           | R <sub>w</sub> – Code table 3555   | —   |

\* See note at the end of this attachment.

# ATTACHMENT II

| BUFR/CREX<br>code or flag<br>table | Related code table,<br>regulation or code form<br>in alphanumeric codes | Remarks                            |
|------------------------------------|---|------------------------------------|
| 0 04 059                           | g – Code table 1400   | More flexible than Code table 1400 |
| 0 04 080                           | m <sub>S</sub> , m <sub>T</sub> , m <sub>C</sub> – Code table 2604      | —                                  |
| 0 08 001                           | TEMP/TEMP SHIP – Sections 2 to 6  | —                                  |
| 0 08 002                           | SYNOP/SHIP – Regulation 12.4.10.1                                       | —                                  |
| 0 08 004                           | AMDAR – Regulation 42.2   | —                                  |
| 0 08 009                           | i <sub>p</sub> i <sub>p</sub> i <sub>p</sub> – AMDAR                    | —                                  |
| 0 08 011                           | F <sub>t</sub> – Code table 1152  | —                                  |
| 0 08 014                           | METAR/SPECI – Regulation 15.7.6   | —                                  |
| 0 08 016                           | METAR/SPECI – Regulation 15.14  | —                                  |
| 0 08 017                           | METAR/SPECI – Regulation 15.14.3  | —                                  |
| 0 08 050                           | CLIMAT – Qualifier for number of missing values                         | —                                  |
| 0 08 052                           | CLIMAT – Condition for which number of days of occurrence               | —                                  |
| 0 08 053                           | CLIMAT – Day of occurrence  | —                                  |
| 0 08 054                           | METAR/SPECI – Regulation 15.5.6   | —                                  |
| 0 08 079                           | METAR/SPECI/TAF – Product status  | —                                  |
| 0 10 063                           | a – Code table 0200   | —                                  |
| 0 11 031                           | i – Code table 1800   | —                                  |
|                                    | B <sub>A</sub> – Code table 0302  |                                    |
| 0 13 041                           | s <sub>p</sub> – Code table 3847  | —                                  |
| 0 13 051                           | R <sub>d</sub> – Code table 3534  | —                                  |
| 0 19 100                           | t <sub>e</sub> – Code table 4035  | —                                  |
| 0 19 101                           | A <sub>C</sub> – Code table 0104  | —                                  |
| 0 19 102                           | S <sub>C</sub> – Code table 3704  | —                                  |
| 0 19 103                           | W <sub>C</sub> – Code table 4504  | —                                  |
| 0 19 104                           | a <sub>C</sub> – Code table 0204  | —                                  |
| 0 19 105                           | r <sub>t</sub> – Code table 3652  | —                                  |
| 0 19 107                           | t <sub>m</sub> – Code table 4044  | —                                  |
| 0 19 108                           | A <sub>t</sub> – Code table 0152  | —                                  |
| 0 19 109                           | W <sub>f</sub> – Code table 4536  | —                                  |
| 0 19 110                           | a <sub>t</sub> – Code table 0252  | —                                  |
| 0 20 003*                          | ww – Code table 4677  | —                                  |
|                                    | w <sub>a</sub> w <sub>a</sub> – Code table 4680                         |                                    |
|                                    | w <sub>1</sub> w <sub>1</sub> – Code table 4687                         |                                    |
| 0 20 004                           | W <sub>1</sub> – Code table 4561  | —                                  |
|                                    | W <sub>a1</sub> – Code table 4531                                       |                                    |
| 0 20 005                           | W <sub>2</sub> – Code table 4561  | —                                  |
|                                    | W <sub>a2</sub> – Code table 4531                                       |                                    |
| 0 20 009                           | METAR/SPECI   | —                                  |
| 0 20 011                           | N – Code table 2700   | —                                  |
| 0 20 012                           | C – Code table 0500   | —                                  |
|                                    | C <sub>H</sub> – Code table 0509  |                                    |
|                                    | C <sub>M</sub> – Code table 0515  |                                    |
|                                    | C <sub>L</sub> – Code table 0513  |                                    |
| 0 20 017                           | C <sub>t</sub> – Code table 0552  | —                                  |
| 0 20 018                           | METAR/SPECI – Regulation 15.7.4.3                                       | —                                  |
| 0 20 032                           | R <sub>s</sub> – Code table 3551  | —                                  |
| 0 20 033                           | I <sub>s</sub> – Code table 1751  | —                                  |
| 0 20 034                           | c <sub>i</sub> – Code table 0639  | —                                  |

\* See note at the end of this attachment.

## ATTACHMENT II

| BUFR/CREX<br>code or flag<br>table | Related code table,<br>regulation or code form<br>in alphanumeric codes | Remarks                                   |
|------------------------------------|---|---|
| 0 20 036                           | $z_i$ – Code table 5239   | —   |
| 0 20 037                           | $S_i$ – Code table 3739   | —   |
| 0 20 040                           | $S'_8$ – Code table 3776  | —   |
| 0 20 041                           | $I_c$ – Code table 1733   | Additional entries in Code table 0 20 041 |
| 0 20 055                           | $C_s$ – Code table 430 (Vol. II)  | —   |
| 0 20 062                           | $E$ – Code table 0901   | —   |
|                                    | $E'$ – Code table 0975  | —   |
| 0 20 063                           | $SpSpSpSp$ – Code table 3778  | —   |
| 0 20 071                           | $A_i$ – Code table 0139   | —   |
| 0 20 085                           | METAR/SPECI – Regulation 15.13.6.1                                      | —   |
| 0 20 086                           | $E_R$ – Code table 0919   | —   |
| 0 20 087                           | $C_R$ – Code table 0519   | —   |
| 0 20 089                           | $B_R B_R$ – Code table 0366   | —   |
| 0 20 090                           | $C_s$ – Code table 0521   | —   |
| 0 20 101                           | $L_n$ – Code table 162 (Vol. II)  | —   |
| 0 20 102                           | $L_c$ – Code table 159 (Vol. II)  | —   |
| 0 20 103                           | $L_d$ – Code table 160 (Vol. II)  | —   |
| 0 20 104                           | $L_g$ – Code table 161 (Vol. II)  | —   |
| 0 20 105                           | $s_L$ – Code table 173 (Vol. II)  | —   |
| 0 20 106                           | $d_L$ – Code table 139 (Vol. II)  | —   |
| 0 20 107                           | $D_L$ – Code table 140 (Vol. II)  | —   |
| 0 20 108                           | $v_e$ – Code table 182 (Vol. II)  | —   |
| 0 22 061                           | $S$ – Code table 3700   | —   |
| 0 22 067                           | $I_X I_X I_X$ – Code table 1770   | Common Code table C–3                     |
| 0 22 068                           | $X_R X_R$ – Code table 4770   | Common Code table C–4                     |
| 0 23 001                           | $A_a$ – Code table 0131   | —   |
| 0 23 002                           | $AA$ – Code table 0177  | —   |
| 0 23 003                           | $B_T$ – Code table 0324   | —   |
| 0 23 004                           | $P_a$ – Code table 3131   | —   |
| 0 23 005                           | $A_c$ – Code table 0133   | —   |
| 0 23 006                           | $A_e$ – Code table 0135   | —   |
| 0 23 007                           | $E_c$ – Code table 0933   | —   |
| 0 23 008 }<br>0 23 009 }           | $E_s$ – Code table 0943   | —   |
| 0 23 016                           | $R_e$ – Code table 3535   | —   |
| 0 23 018                           | $E_e$ – Code table 0935   | —   |
| 0 23 031                           | $R_p$ – Code table 3548   | —   |
| 0 23 032                           | $I_n$ – Code table 1743   | —   |
| 0 24 003                           | $R_c$ – Code table 3533   | —   |
| 0 25 041                           | $D_s$ – Code table 0700   | —   |
| 0 25 042                           | $v_s$ – Code table 4451   | —   |
| 0 25 086                           | $Q_z$ – Code table 3318   | —   |
| 0 29 001                           | $grgr$ – Code table 1487  | —   |
| 0 33 020                           | $Q_d, Q_{d1}, Q_{d2}, Q_l, Q_t$ – Code table 3334                       | —   |
| 0 33 021                           | $Q_P, Q_{TW}$ – Code tables 3315 - 3319                                 | —   |
| 0 33 022                           | $Q_N$ – Code table 3313   | —   |
| 0 33 023                           | $Q_L$ – Code table 3311   | —   |
| 0 33 024                           | $i_m$ – Code table 1845   | —   |
| 0 33 027                           | $Q_A$ – Code table 3302   | —   |

\* See note at the end of this attachment.

**Note: Encoding/decoding of  
SYNOP/SHIP i<sub>x</sub> – Code table 1860**

| Code<br>figure | Type of station operation  | to/from BUFR code tables       |                                |
|----------------|--|--------------------------------|--------------------------------|
|                |  | 0 02 001<br>Type of<br>station | 0 20 003<br>Present<br>weather |
| 1              | Manned station (group 7wwW <sub>1</sub> W <sub>2</sub> included)<br>(but actually missing)   | 1<br>(1)                       | 00–99 (200–299)<br>(510)       |
| 2              | Manned station (group 7ww W <sub>1</sub> W <sub>2</sub> omitted,<br>no significant phenomenon to report)   | 1                              | 508                            |
| 3              | Manned station (group 7ww W <sub>1</sub> W <sub>2</sub> omitted,<br>no observation, data not available)  | 1                              | 509                            |
| 4              | Automatic station (group 7ww W <sub>1</sub> W <sub>2</sub> included,<br>using Code tables 4677 and 4561)<br>(but actually missing)                               | 0<br>(0)                       | 00–99 (200–299)<br>(510)       |
| 5              | Automatic station (group 7w <sub>a</sub> w <sub>a</sub> W <sub>a1</sub> W <sub>a2</sub> omitted,<br>no significant phenomenon to report)                         | 0                              | 508                            |
| 6              | Automatic station (group 7 w <sub>a</sub> w <sub>a</sub> W <sub>a1</sub> W <sub>a2</sub> omitted,<br>no observation, data not available)                         | 0                              | 509                            |
| 7              | Automatic station (group 7 w <sub>a</sub> w <sub>a</sub> W <sub>a1</sub> W <sub>a2</sub> included,<br>using Code tables 4680 and 4531)<br>(but actually missing) | 0<br>(0)                       | 100–199 (200–299)<br>(510)     |