

c. COMMON CODE TABLES TO BINARY AND ALPHANUMERIC CODES

| | Status |
|--|-------------|
| COMMON CODE TABLE C-1: <i>Identification of originating/generating centre</i> F ₁ F ₂ for alphanumeric codes F ₃ F ₃ F ₃ for alphanumeric codes Code table 0 in GRIB Edition 1/Code table 0 01 033 for BUFR Edition 3 Octet 5 in Section 1 of GRIB Edition 1/Octet 6 in Section 1 of BUFR Edition 3 | Operational |
| COMMON CODE TABLE C-2: <i>Radiosonde/ sounding system used</i> Code table 3685 - r _a r _a (Radiosonde/sounding system used) - for alphanumeric codes Code table 0 02 011 (Radiosonde type) in BUFR | Operational |
| COMMON CODE TABLE C-3: <i>Instrument make and type for water temperature profile measurement with fall rate equation coefficients</i> Code table 1770 - I _X I _X I _X (Instrument type for XBT, with fall rate equation coefficients) - for alphanumeric codes Code table 0 22 067 (Instrument type for water temperature profile measurement) in BUFR | Operational |
| COMMON CODE TABLE C-4: <i>Water temperature profile recorder types</i> Code table 4770 - X _R X _R (Recorder type) - for alphanumeric codes Code table 0 22 068 (Water temperature profile recorder types) in BUFR | Operational |
| COMMON CODE TABLE C-5: <i>Satellite identifier</i> I ₆ I ₆ I ₆ for alphanumeric codes Code table 0 01 007 in BUFR Code used in GRIB Edition 2 | Operational |
| COMMON CODE TABLE C-6: <i>List of units for TDCFs</i> | Operational |
| COMMON CODE TABLE C-7: <i>Tracking technique/status of system used</i> Code table 3872 - s _a s _a for alphanumeric code Code table 0 02 014 in BUFR | Operational |
| COMMON CODE TABLE C-8: <i>Satellite Instruments</i> Code table 0 02 019 in BUFR | Operational |

COMMON CODE TABLE C-11: *Originating/generating centres*

Operational

BUFR 0 01 035
CREX Edition 2, ooooo in Group Poooooppp in Section 1
GRIB Edition 2, Octets 6-7 in Section 1
BUFR Edition 4, Octets 5-6 in Section 1

COMMON CODE TABLE C-12: *Sub-centres of originating centres defined by entries in Common Code tables C-1 or C-11*

Operational

BUFR 0 01 034
BUFR Edition 3, Octet 5 in Section 1
BUFR Edition 4, Octets 7-8 in Section 1
GRIB Edition 1, Octet 26 in Section 1
GRIB Edition 2, Octets 8-9 in Section 1
CREX Edition 2, ppp in Group Poooooppp in Section 1

COMMON CODE TABLE C-13: *Data sub-categories of categories defined by entries in BUFR Table A*

Operational

BUFR Edition 4, Octet 12 in Section 1 (if = 255, it means other sub-category or undefined)
CREX Edition 2, mmm in group Annnmmm of Section 1

COMMON CODE TABLE C-14: *Atmospheric chemical or physical constituent type*

Operational

Code Table 4.230 in GRIB 2
Code Table 0 08 046 in BUFR

Validation

COMMON CODE TABLE C-1: Identification of originating/generating centre

Common Code table { F₁ F₂ for alphanumeric codes
 F₃ F₃ F₃ for alphanumeric codes
 Code table 0 in GRIB Edition 1/Code table 0 01 033 in BUFR Edition 3
 Octet 5 in Section 1 of GRIB Edition 1/Octet 6 in Section 1 of BUFR Edition 3

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|---|-------------|
| 00 | 000 | 0 | WMO Secretariat | Operational |
| | | | 01-09: WMCs | Operational |
| 01 | 001 | 1 | Melbourne | Operational |
| 02 | 002 | 2 | Melbourne | Operational |
| 03 | 003 | 3 |) | Operational |
| 04 | 004 | 4 | Moscow | Operational |
| 05 | 005 | 5 | Moscow | Operational |
| 06 | 006 | 6 |) | Operational |
| 07 | 007 | 7 | US National Weather Service - National Centres for Environmental Prediction (NCEP) | Operational |
| 08 | 008 | 8 | US National Weather Service Telecommuni- cations Gateway (NWSTG) | Operational |
| 09 | 009 | 9 | US National Weather Service - Other | Operational |
| | | | 10-25: Centres in Region I | Operational |
| 10 | 010 | 10 | Cairo (RSMC) | Operational |
| 11 | 011 | 11 |) | Operational |
| 12 | 012 | 12 | Dakar (RSMC) | Operational |
| 13 | 013 | 13 |) | Operational |
| 14 | 014 | 14 | Nairobi (RSMC) | Operational |
| 15 | 015 | 15 |) | Operational |
| 16 | 016 | 16 | Casablanca (RSMC) | Operational |
| 17 | 017 | 17 | Tunis (RSMC) | Operational |
| 18 | 018 | 18 | Tunis - Casablanca (RSMC) | Operational |
| 19 | 019 | 19 |) | Operational |
| 20 | 020 | 20 | Las Palmas | Operational |
| 21 | 021 | 21 | Algiers (RSMC) | Operational |
| 22 | 022 | 22 | ACMAD | Operational |
| 23 | 023 | 23 | Mozambique (NMC) | Operational |
| 24 | 024 | 24 | Pretoria (RSMC) | Operational |
| 25 | 025 | 25 | La Réunion (RSMC) | Operational |
| | | | 26-40: Centres in Region II | Operational |
| 26 | 026 | 26 | Khabarovsk (RSMC) | Operational |
| 27 | 027 | 27 |) | Operational |
| 28 | 028 | 28 | New Delhi (RSMC) | Operational |
| 29 | 029 | 29 |) | Operational |
| 30 | 030 | 30 | Novosibirsk (RSMC) | Operational |

(continued)

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|---|-------------|
| 31 | 031 | 31 |) | Operational |
| 32 | 032 | 32 | Tashkent (RSMC) | Operational |
| 33 | 033 | 33 | Jeddah (RSMC) | Operational |
| 34 | 034 | 34 | Tokyo (RSMC), Japan Meteorological Agency | Operational |
| 35 | 035 | 35 |) | Operational |
| 36 | 036 | 36 | Bangkok | Operational |
| 37 | 037 | 37 | Ulaanbaatar | Operational |
| 38 | 038 | 38 | Beijing (RSMC) | Operational |
| 39 | 039 | 39 |) | Operational |
| 40 | 040 | 40 | Seoul | Operational |
| 41-50: Centres in Region III | | | | Operational |
| 41 | 041 | 41 | Buenos Aires (RSMC) | Operational |
| 42 | 042 | 42 |) | Operational |
| 43 | 043 | 43 | Brasilia (RSMC) | Operational |
| 44 | 044 | 44 |) | Operational |
| 45 | 045 | 45 | Santiago | Operational |
| 46 | 046 | 46 | Brazilian Space Agency - INPE | Operational |
| 47 | 047 | 47 | Colombia (NMC) | Operational |
| 48 | 048 | 48 | Ecuador (NMC) | Operational |
| 49 | 049 | 49 | Peru (NMC) | Operational |
| 50 | 050 | 50 | Venezuela (Bolivarian Republic of) (NMC) | Operational |
| 51-63: Centres in Region IV | | | | Operational |
| 51 | 051 | 51 | Miami (RSMC) | Operational |
| 52 | 052 | 52 | Miami RSMC, National Hurricane Centre | Operational |
| 53 | 053 | 53 | Montreal (RSMC) | Operational |
| 54 | 054 | 54 |) | Operational |
| 55 | 055 | 55 | San Francisco | Operational |
| 56 | 056 | 56 | ARINC Centre | Operational |
| 57 | 057 | 57 | US Air Force - Air Force Global Weather Central | Operational |
| 58 | 058 | 58 | Fleet Numerical Meteorology and Ocean- ography Center, Monterey, CA, USA | Operational |
| 59 | 059 | 59 | The NOAA Forecast Systems Laboratory, Boulder, CO, USA | Operational |
| 60 | 060 | 60 | United States National Center for Atmospheric Research (NCAR) | Operational |
| 61 | 061 | 61 | Service ARGOS - Landover | Operational |
| 62 | 062 | 62 | US Naval Oceanographic Office | Operational |
| 63 | 063 | 63 | International Research Institute for Climate and Society (IRI) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|--|-------------|
| | | | 64-73: Centres in Region V | Operational |
| 64 | 064 | 64 | Honolulu (RSMC) | Operational |
| 65 | 065 | 65 | Darwin (RSMC) | Operational |
| 66 | 066 | 66 |) | Operational |
| 67 | 067 | 67 | Melbourne (RSMC) | Operational |
| 68 | 068 | 68 | Reserved | Operational |
| 69 | 069 | 69 | Wellington (RSMC) | Operational |
| 70 | 070 | 70 |) | Operational |
| 71 | 071 | 71 | Nadi (RSMC) | Operational |
| 72 | 072 | 72 | Singapore | Operational |
| 73 | 073 | 73 | Malaysia (NMC) | Operational |
| | | | 74-99: Centres in Region VI | Operational |
| 74 | 074 | 74 | UK Meteorological Office - Exeter (RSMC) | Operational |
| 75 | 075 | 75 |) | Operational |
| 76 | 076 | 76 | Moscow (RSMC) | Operational |
| 77 | 077 | 77 | Reserved | Operational |
| 78 | 078 | 78 | Offenbach (RSMC) | Operational |
| 79 | 079 | 79 |) | Operational |
| 80 | 080 | 80 | Rome (RSMC) | Operational |
| 81 | 081 | 81 |) | Operational |
| 82 | 082 | 82 | Norrköping | Operational |
| 83 | 083 | 83 |) | Operational |
| 84 | 084 | 84 | Toulouse (RSMC) | Operational |
| 85 | 085 | 85 | Toulouse (RSMC) | Operational |
| 86 | 086 | 86 | Helsinki | Operational |
| 87 | 087 | 87 | Belgrade | Operational |
| 88 | 088 | 88 | Oslo | Operational |
| 89 | 089 | 89 | Prague | Operational |
| 90 | 090 | 90 | Episkopi | Operational |
| 91 | 091 | 91 | Ankara | Operational |
| 92 | 092 | 92 | Frankfurt/Main | Operational |
| 93 | 093 | 93 | London (WAFC) | Operational |
| 94 | 094 | 94 | Copenhagen | Operational |
| 95 | 095 | 95 | Rota | Operational |
| 96 | 096 | 96 | Athens | Operational |
| 97 | 097 | 97 | European Space Agency (ESA) | Operational |
| 98 | 098 | 98 | European Centre for Medium-Range Weather Forecasts (ECMWF) (RSMC) | Operational |
| 99 | 099 | 99 | De Bilt | Operational |

(continued)

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|---|-------------|
| | | | Additional Centres | Operational |
| Not applicable | 100 | 100 | Brazzaville | Operational |
| Not applicable | 101 | 101 | Abidjan | Operational |
| Not applicable | 102 | 102 | Libyan Arab Jamahiriya (NMC) | Operational |
| Not applicable | 103 | 103 | Madagascar (NMC) | Operational |
| Not applicable | 104 | 104 | Mauritius (NMC) | Operational |
| Not applicable | 105 | 105 | Niger (NMC) | Operational |
| Not applicable | 106 | 106 | Seychelles (NMC) | Operational |
| Not applicable | 107 | 107 | Uganda (NMC) | Operational |
| Not applicable | 108 | 108 | United Republic of Tanzania (NMC) | Operational |
| Not applicable | 109 | 109 | Zimbabwe (NMC) | Operational |
| Not applicable | 110 | 110 | Hong-Kong, China | Operational |
| Not applicable | 111 | 111 | Afghanistan (NMC) | Operational |
| Not applicable | 112 | 112 | Bahrain (NMC) | Operational |
| Not applicable | 113 | 113 | Bangladesh (NMC) | Operational |
| Not applicable | 114 | 114 | Bhutan (NMC) | Operational |
| Not applicable | 115 | 115 | Cambodia (NMC) | Operational |
| Not applicable | 116 | 116 | Democratic People's Republic of Korea (NMC) | Operational |
| Not applicable | 117 | 117 | Islamic Republic of Iran (NMC) | Operational |
| Not applicable | 118 | 118 | Iraq (NMC) | Operational |
| Not applicable | 119 | 119 | Kazakhstan (NMC) | Operational |
| Not applicable | 120 | 120 | Kuwait (NMC) | Operational |
| Not applicable | 121 | 121 | Kyrgyzstan (NMC) | Operational |
| Not applicable | 122 | 122 | Lao People's Democratic Republic (NMC) | Operational |
| Not applicable | 123 | 123 | Macao, China | Operational |
| Not applicable | 124 | 124 | Maldives (NMC) | Operational |
| Not applicable | 125 | 125 | Myanmar (NMC) | Operational |
| Not applicable | 126 | 126 | Nepal (NMC) | Operational |
| Not applicable | 127 | 127 | Oman (NMC) | Operational |
| Not applicable | 128 | 128 | Pakistan (NMC) | Operational |
| Not applicable | 129 | 129 | Qatar (NMC) | Operational |
| Not applicable | 130 | 130 | Yemen (NMC) | Operational |
| Not applicable | 131 | 131 | Sri Lanka (NMC) | Operational |
| Not applicable | 132 | 132 | Tajikistan (NMC) | Operational |
| Not applicable | 133 | 133 | Turkmenistan (NMC) | Operational |
| Not applicable | 134 | 134 | United Arab Emirates (NMC) | Operational |
| Not applicable | 135 | 135 | Uzbekistan (NMC) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|--|-------------|
| Not applicable | 136 | 136 | Viet Nam (NMC) | Operational |
| Not applicable | 137-139 | 137-139 | Reserved for other centres | Operational |
| Not applicable | 140 | 140 | Bolivia (Plurinational State of) (NMC) | Operational |
| Not applicable | 141 | 141 | Guyana (NMC) | Operational |
| Not applicable | 142 | 142 | Paraguay (NMC) | Operational |
| Not applicable | 143 | 143 | Suriname (NMC) | Operational |
| Not applicable | 144 | 144 | Uruguay (NMC) | Operational |
| Not applicable | 145 | 145 | French Guiana | Operational |
| Not applicable | 146 | 146 | Brazilian Navy Hydrographic Centre | Operational |
| Not applicable | 147 | 147 | National Commission on Space Activities (CONAE) - Argentina | Operational |
| Not applicable | 148-149 | 148-149 | Reserved for other centres | Operational |
| Not applicable | 150 | 150 | Antigua and Barbuda (NMC) | Operational |
| Not applicable | 151 | 151 | Bahamas (NMC) | Operational |
| Not applicable | 152 | 152 | Barbados (NMC) | Operational |
| Not applicable | 153 | 153 | Belize (NMC) | Operational |
| Not applicable | 154 | 154 | British Caribbean Territories Centre | Operational |
| Not applicable | 155 | 155 | San José | Operational |
| Not applicable | 156 | 156 | Cuba (NMC) | Operational |
| Not applicable | 157 | 157 | Dominica (NMC) | Operational |
| Not applicable | 158 | 158 | Dominican Republic (NMC) | Operational |
| Not applicable | 159 | 159 | El Salvador (NMC) | Operational |
| Not applicable | 160 | 160 | US NOAA/NESDIS | Operational |
| Not applicable | 161 | 161 | US NOAA Office of Oceanic and Atmospheric Research | Operational |
| Not applicable | 162 | 162 | Guatemala (NMC) | Operational |
| Not applicable | 163 | 163 | Haiti (NMC) | Operational |
| Not applicable | 164 | 164 | Honduras (NMC) | Operational |
| Not applicable | 165 | 165 | Jamaica (NMC) | Operational |
| Not applicable | 166 | 166 | Mexico City | Operational |
| Not applicable | 167 | 167 | Netherlands Antilles and Aruba (NMC) | Operational |
| Not applicable | 168 | 168 | Nicaragua (NMC) | Operational |
| Not applicable | 169 | 169 | Panama (NMC) | Operational |
| Not applicable | 170 | 170 | Saint Lucia (NMC) | Operational |
| Not applicable | 171 | 171 | Trinidad and Tobago (NMC) | Operational |
| Not applicable | 172 | 172 | French Departments in RA IV | Operational |
| Not applicable | 173 | 173 | US National Aeronautics and Space Administration (NASA) | Operational |

(continued)

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|--|-------------|
| Not applicable | 174 | 174 | Integrated System Data Management/Marine Environmental Data Service (ISDM/MEDS) - Canada | Operational |
| Not applicable | 175 | 175 | Reserved for other centres | Operational |
| Not applicable | 176 | 176 | U.S. Cooperative Institute for Meteorological Satellite Studies (CIMSS) | Operational |
| Not applicable | 177-189 | 177-189 | Reserved for other centres | Operational |
| Not applicable | 190 | 190 | Cook Islands (NMC) | Operational |
| Not applicable | 191 | 191 | French Polynesia (NMC) | Operational |
| Not applicable | 192 | 192 | Tonga (NMC) | Operational |
| Not applicable | 193 | 193 | Vanuatu (NMC) | Operational |
| Not applicable | 194 | 194 | Brunei Darussalam (NMC) | Operational |
| Not applicable | 195 | 195 | Indonesia (NMC) | Operational |
| Not applicable | 196 | 196 | Kiribati (NMC) | Operational |
| Not applicable | 197 | 197 | Federated States of Micronesia (NMC) | Operational |
| Not applicable | 198 | 198 | New Caledonia (NMC) | Operational |
| Not applicable | 199 | 199 | Niue | Operational |
| Not applicable | 200 | 200 | Papua New Guinea (NMC) | Operational |
| Not applicable | 201 | 201 | Philippines (NMC) | Operational |
| Not applicable | 202 | 202 | Samoa (NMC) | Operational |
| Not applicable | 203 | 203 | Solomon Islands (NMC) | Operational |
| Not applicable | 204 | 204 | National Institute of Water and Atmospheric Research (NIWA - New Zealand) | Operational |
| Not applicable | 205-209 | 205-209 | Reserved | Operational |
| Not applicable | 210 | 210 | Frascati (ESA/ESRIN) | Operational |
| Not applicable | 211 | 211 | Lannion | Operational |
| Not applicable | 212 | 212 | Lisbon | Operational |
| Not applicable | 213 | 213 | Reykjavik | Operational |
| Not applicable | 214 | 214 | Madrid | Operational |
| Not applicable | 215 | 215 | Zurich | Operational |
| Not applicable | 216 | 216 | Service ARGOS - Toulouse | Operational |
| Not applicable | 217 | 217 | Bratislava | Operational |
| Not applicable | 218 | 218 | Budapest | Operational |
| Not applicable | 219 | 219 | Ljubljana | Operational |
| Not applicable | 220 | 220 | Warsaw | Operational |
| Not applicable | 221 | 221 | Zagreb | Operational |
| Not applicable | 222 | 222 | Albania (NMC) | Operational |
| Not applicable | 223 | 223 | Armenia (NMC) | Operational |
| Not applicable | 224 | 224 | Austria (NMC) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-1 - continued)

| Code figure for F ₁ F ₂ | Code figure for F ₃ F ₃ F ₃ | Octet 5 in Section 1 of GRIB Edition 1 Octet 6 in Section 1 of BUFR Edition 3 | | Status |
|--|---|--|--|-------------|
| Not applicable | 225 | 225 | Azerbaijan (NMC) | Operational |
| Not applicable | 226 | 226 | Belarus (NMC) | Operational |
| Not applicable | 227 | 227 | Belgium (NMC) | Operational |
| Not applicable | 228 | 228 | Bosnia and Herzegovina (NMC) | Operational |
| Not applicable | 229 | 229 | Bulgaria (NMC) | Operational |
| Not applicable | 230 | 230 | Cyprus (NMC) | Operational |
| Not applicable | 231 | 231 | Estonia (NMC) | Operational |
| Not applicable | 232 | 232 | Georgia (NMC) | Operational |
| Not applicable | 233 | 233 | Dublin | Operational |
| Not applicable | 234 | 234 | Israel (NMC) | Operational |
| Not applicable | 235 | 235 | Jordan (NMC) | Operational |
| Not applicable | 236 | 236 | Latvia (NMC) | Operational |
| Not applicable | 237 | 237 | Lebanon (NMC) | Operational |
| Not applicable | 238 | 238 | Lithuania (NMC) | Operational |
| Not applicable | 239 | 239 | Luxembourg | Operational |
| Not applicable | 240 | 240 | Malta (NMC) | Operational |
| Not applicable | 241 | 241 | Monaco | Operational |
| Not applicable | 242 | 242 | Romania (NMC) | Operational |
| Not applicable | 243 | 243 | Syrian Arab Republic (NMC) | Operational |
| Not applicable | 244 | 244 | The former Yugoslav Republic of Macedonia (NMC) | Operational |
| Not applicable | 245 | 245 | Ukraine (NMC) | Operational |
| Not applicable | 246 | 246 | Republic of Moldova (NMC) | Operational |
| Not applicable | 247 | 247 | Operational Programme for the Exchange of weather RADar information (OPERA) - EUMETNET | Operational |
| Not applicable | 248-249 | 248-249 | Reserved for other centres | Operational |
| Not applicable | 250 | 250 | CONsortium for Small scale MOdelling (COSMO) | Operational |
| Not applicable | 251-253 | 251-253 | Reserved for other centres | Operational |
| Not applicable | 254 | 254 | EUMETSAT Operation Centre | Operational |
| Not applicable | 255 | 255 | Missing value | Operational |
| Not applicable | 256-999 | Not applicable | Not used | Operational |

Notes:

- (1) The closed bracket sign) indicates that the corresponding code figure is reserved for the previously named centre.

(continued)

(Common Code table C-1 - continued)

- (2) With GRIB or BUFR, to indicate whether the originating/generating centre is a sub-centre or not, the following procedure should be applied:

In GRIB edition 1, use octet 26 of section 1, or in BUFR edition 3, use octet 5 of section 1, with the following meaning:

Code figure

- | | |
|----------|---|
| 0 | Not a sub-centre, the originating/generating centre is the centre defined by Octet 5 in section 1 of GRIB Edition 1, or by octet 6 in section 1 of BUFR edition 3. |
| 1 to 254 | Identifier of the sub-centre which is the originating/generating centre. The identifier of the sub-centre is allocated by the associated centre, which is defined by octet 5 in section 1 of GRIB edition 1, or octet 6 in section 1 of BUFR edition 3. The sub-centre identifiers should be supplied to the WMO Secretariat by the associated centre(s) for publication. |

- (3) For the definitions of sub-centres provided to the WMO Secretariat, see Common code table C-12.

COMMON CODE TABLE C-2: Radiosonde/sounding system used

Common Code table { Code table 3685 - $r_a r_a$ (Radiosonde/sounding system used) - for alphanumeric codes
 { Code table 0 02 011 (Radiosonde type) in BUFR

| Date of assignment of number (necessary after 30/06/2007) | Code figure for $r_a r_a$ (Code table 3685) | Code figure for BUFR (Code table 0 02 011) | | Status |
|---|---|--|---|-------------|
| Not applicable | 00 | 0 | Reserved | Operational |
| Before | 01 | 1 | iMet-1-BB (USA) | Operational |
| Not applicable | 02 | 2 | No radiosonde - passive target (e.g. reflector) | Operational |
| Not applicable | 03 | 3 | No radiosonde - active target (e.g. transponder) | Operational |
| Not applicable | 04 | 4 | No radiosonde - passive temperature-humidity profiler | Operational |
| Not applicable | 05 | 5 | No radiosonde - active temperature-humidity profiler | Operational |
| Not applicable | 06 | 6 | No radiosonde - radio acoustic sounder | Operational |
| Before | 07 | 7 | iMet-1-AB (USA) | Operational |
| Not applicable | 08 | 8 | No radiosonde - ... (reserved) | Operational |
| Not applicable | 09 | 9 | No radiosonde - system unknown or not specified | Operational |
| Before | 10 | 10 | VIZ type A pressure-commutated (USA) | Operational |
| Before | 11 | 11 | VIZ type B time-commutated (USA) | Operational |
| Before | 12 | 12 | RS SDC (Space Data Corporation - USA) | Operational |
| Before | 13 | 13 | Astor (no longer made - Australia) | Operational |
| Before | 14 | 14 | VIZ MARK I MICROSONDE (USA) | Operational |
| Before | 15 | 15 | EEC Company type 23 (USA) | Operational |
| Before | 16 | 16 | Elin (Austria) | Operational |
| Before | 17 | 17 | Graw G. (Germany) | Operational |
| Before | 18 | 18 | Graw DFM-06 (Germany) | Operational |
| Before | 19 | 19 | Graw M60 (Germany) | Operational |
| Before | 20 | 20 | Indian Meteorological Service MK3 (India) | Operational |
| Before | 21 | 21 | VIZ/Jin Yang MARK I MICROSONDE (Republic of Korea) | Operational |
| Before | 22 | 22 | Meisei RS2-80 (Japan) | Operational |
| Before | 23 | 23 | Mesural FMO 1950A (France) | Operational |
| Before | 24 | 24 | Mesural FMO 1945A (France) | Operational |
| Before | 25 | 25 | Mesural MH73A (France) | Operational |
| Before | 26 | 26 | Meteolabor Basora (Switzerland) | Operational |
| Before | 27 | 27 | AVK-MRZ (Russian Federation) | Operational |
| Before | 28 | 28 | Meteorit MARZ2-1 (Russian Federation) | Operational |
| Before | 29 | 29 | Meteorit MARZ2-2 (Russian Federation) | Operational |
| Before | 30 | 30 | Oki RS2-80 (Japan) | Operational |
| Before | 31 | 31 | VIZ/Valcom type A pressure-commutated (Canada) | Operational |
| Before | 32 | 32 | Shanghai Radio (China) | Operational |
| Before | 33 | 33 | UK Met Office MK3 (UK) | Operational |
| Before | 34 | 34 | Vinohrady (Czech Republic) | Operational |
| Before | 35 | 35 | Vaisala RS18 (Finland) | Operational |
| Before | 36 | 36 | Vaisala RS21 (Finland) | Operational |
| Before | 37 | 37 | Vaisala RS80 (Finland) | Operational |
| Before | 38 | 38 | VIZ LOCATE Loran-C (USA) | Operational |

(continued)

(Common Code table C-2 - continued)

| Date of assignment of number (necessary after 30/06/2007) | Code figure for r_a r_a (Code table 3685) | Code figure for BUFR (Code table 0 02 011) | | Status |
|---|---|--|--|-------------|
| Before | 39 | 39 | Sprenger E076 (Germany) | Operational |
| Before | 40 | 40 | Sprenger E084 (Germany) | Operational |
| Before | 41 | 41 | Sprenger E085 (Germany) | Operational |
| Before | 42 | 42 | Sprenger E086 (Germany) | Operational |
| Before | 43 | 43 | AIR IS - 4A - 1680 (USA) | Operational |
| Before | 44 | 44 | AIR IS - 4A - 1680 X (USA) | Operational |
| Before | 45 | 45 | RS MSS (USA) | Operational |
| Before | 46 | 46 | Air IS - 4A - 403 (USA) | Operational |
| Before | 47 | 47 | Meisei RS2-91 (Japan) | Operational |
| Before | 48 | 48 | VALCOM (Canada) | Operational |
| Before | 49 | 49 | VIZ MARK II (USA) | Operational |
| Before | 50 | 50 | Graw DFM-90 (Germany) | Operational |
| Before | 51 | 51 | VIZ-B2 (USA) | Operational |
| Before | 52 | 52 | Vaisala RS80-57H | Operational |
| Before | 53 | 53 | AVK-RF95 (Russian Federation) | Operational |
| Before | 54 | 54 | Graw DFM-97 (Germany) | Operational |
| Before | 55 | 55 | Meisei RS-016 (Japan) | Operational |
| Before | 56 | 56 | M2K2 (France) | Operational |
| Before | 57 | 57 | Modem M2K2-DC (France) | Operational |
| Before | 58 | 58 | AVK-BAR (Russian Federation) | Operational |
| Before | 59 | 59 | Modem M2K2-R 1680 MHz RDF radiosonde with pressure sensor chip (France) | Operational |
| Before | 60 | 60 | Vaisala RS80/MicroCora (Finland) | Operational |
| Before | 61 | 61 | Vaisala RS80/Loran/Digicora I, II or Marwin (Finland) | Operational |
| Before | 62 | 62 | Vaisala RS80/PCCora (Finland) | Operational |
| Before | 63 | 63 | Vaisala RS80/Star (Finland) | Operational |
| Before | 64 | 64 | Orbital Sciences Corporation, Space Data Division, transponder radiosonde, type 909-11-XX, where XX corresponds to the model of the instrument (USA) | Operational |
| Before | 65 | 65 | VIZ transponder radiosonde, model number 1499–520 (USA) | Operational |
| Before | 66 | 66 | Vaisala RS80 /Autosonde (Finland) | Operational |
| Before | 67 | 67 | Vaisala RS80/Digicora III (Finland) | Operational |
| Before | 68 | 68 | AVK-RZM-2 (Russian Federation) | Operational |
| Before | 69 | 69 | MARL-A or Vektor-M-RZM-2 (Russian Federation) | Operational |
| Before | 70 | 70 | Vaisala RS92/Star (Finland) | Operational |
| Before | 71 | 71 | Vaisala RS90/Loran/Digicora I, II or Marwin (Finland) | Operational |
| Before | 72 | 72 | Vaisala RS90/PC-Cora (Finland) | Operational |
| Before | 73 | 73 | Vaisala RS90/Autosonde (Finland) | Operational |
| Before | 74 | 74 | Vaisala RS90/Star (Finland) | Operational |
| Before | 75 | 75 | AVK-MRZ-ARMA (Russian Federation) | Operational |
| Before | 76 | 76 | AVK-RF95-ARMA (Russian Federation) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-2 - continued)

| Date of assignment of number (necessary after 30/06/2007) | Code figure for r_a r_a (Code table 3685) | Code figure for BUFR (Code table 0 02 011) | | Status |
|---|---|--|---|-------------|
| Before | 77 | 77 | GEOLINK GPSonde GL98 (France) | Operational |
| Before | 78 | 78 | Vaisala RS90/Digicora III (Finland) | Operational |
| Before | 79 | 79 | Vaisala RS92/Digicora I, II or Marwin (Finland) | Operational |
| Before | 80 | 80 | Vaisala RS92/Digicora III (Finland) | Operational |
| Before | 81 | 81 | Vaisala RS92/Autosonde (Finland) | Operational |
| Before | 82 | 82 | Sippican MK2 GPS/STAR (USA) with rod thermistor, carbon element and derived pressure | Operational |
| Before | 83 | 83 | Sippican MK2 GPS/W9000 (USA) with rod thermistor, carbon element and derived pressure | Operational |
| Before | 84 | 84 | Sippican MARK II with chip thermistor, carbon element and derived pressure from GPS height | Operational |
| Before | 85 | 85 | Sippican MARK IIA with chip thermistor, carbon element and derived pressure from GPS height | Operational |
| Before | 86 | 86 | Sippican MARK II with chip thermistor, pressure and carbon element | Operational |
| Before | 87 | 87 | Sippican MARK IIA with chip thermistor, pressure and carbon element | Operational |
| Before | 88 | 88 | MARL-A or Vektor-M-MRZ (Russian Federation) | Operational |
| Before | 89 | 89 | MARL-A or Vektor-M-BAR (Russian Federation) | Operational |
| Not applicable | 90 | 90 | Radiosonde not specified or unknown | Operational |
| Not applicable | 91 | 91 | Pressure only radiosonde | Operational |
| Not applicable | 92 | 92 | Pressure only radiosonde plus transponder | Operational |
| Not applicable | 93 | 93 | Pressure only radiosonde plus radar reflector | Operational |
| Not applicable | 94 | 94 | No pressure radiosonde plus transponder | Operational |
| Not applicable | 95 | 95 | No pressure radiosonde plus radar reflector | Operational |
| Not applicable | 96 | 96 | Descending radiosonde | Operational |
| Before | 97 | 97 | BAT-16P (South Africa) | Operational |
| Before | 98 | 98 | BAT-16G (South Africa) | Operational |
| Before | 99 | 99 | BAT-4G (South Africa) | Operational |
| | Not available | 100 | Reserved for BUFR only | Operational |
| | 01 | 101 | Not vacant | Operational |
| | Not available | 102-106 | Reserved for BUFR only | Operational |
| | 07 | 107 | Not vacant | Operational |
| | Not available | 108-109 | Reserved for BUFR only | Operational |
| 01/01/2008 | 10 | 110 | Sippican LMS5 w/Chip Thermistor, duct mounted capacitance relative humidity sensor and derived pressure from GPS height | Operational |
| 01/01/2008 | 11 | 111 | Sippican LMS6 w/Chip Thermistor, external boom mounted capacitance relative humidity sensor, and derived pressure from GPS height | Operational |
| | 12 | 112 | Not vacant | Operational |
| 15/09/2010 | 13 | 113 | Vaisala RS92/MARWIN MW32 (Finland) | Operational |
| Needed | 14-16 | 114-116 | Vacant | Operational |
| | 17-22 | 117-122 | Not vacant | Operational |

(continued)

(Common Code table C-2 - continued)

| Date of assignment of number (necessary after 30/06/2007) | Code figure for r_a r_a (Code table 3685) | Code figure for BUFR (Code table 0 02 011) | | Status |
|---|---|--|----------------------------|-------------|
| Needed | 23-25 | 123-125 | Vacant | Operational |
| | 26-29 | 126-129 | Not vacant | Operational |
| 01/01/2010 | 30 | 130 | Meisei RS06G (Japan) | Operational |
| Needed | 31 | 131 | Vacant | Operational |
| | 32 | 132 | Not vacant | Operational |
| Needed | 33-35 | 133-135 | Vacant | Operational |
| | 36-37 | 136-137 | Not vacant | Operational |
| Needed | 38-46 | 138-146 | Vacant | Operational |
| | 47 | 147 | Not vacant | Operational |
| Needed | 48 | 148 | Vacant | Operational |
| | 49-63 | 149-163 | Not vacant | Operational |
| Needed | 64-65 | 164-165 | Vacant | Operational |
| | 66-76 | 166-176 | Not vacant | Operational |
| 15/03/2010 | 77 | 177 | Modem GPSonde M10 (France) | Operational |
| | 78-89 | 177-189 | Not vacant | Operational |
| | Not available | 190-196 | Reserved for BUFR only | Operational |
| | 97-99 | 197-199 | Not vacant | Operational |
| | Not available | 200-254 | Reserved for BUFR only | Operational |
| | | 255 | Missing value | Operational |

Notes:

- (1) References to countries in brackets indicate the manufacturing location rather than the country using the instrument.
- (2) Some of the radiosondes listed are no longer in use but are retained for archiving purposes.
- (3) The alphanumeric code format reports only 2 digits, and the first digit for BUFR is identified from the date: the first digit is 0 if the introduction of the radiosonde for observation was before 30 June 2007, or 1 otherwise. Entries in the second part of the table (after 99), which are declared "Vacant" can be used for new radiosondes because the 2-digits number was originally attributed to sondes, which are no longer used. *This system has been adopted to accommodate reporting in TEMP traditional alphanumeric code format up to the time BUFR is fully used for radiosonding reports.*

COMMON CODE TABLES

COMMON CODE TABLE C-3: Instrument make and type for water temperature profile measurement with fall rate equation coefficients

Common Code table { Code table 1770 - I_x I_x I_x (Instrument type for XBT, with fall rate equation coefficients)
- for alphanumeric codes
Code table 0 22 067 (Instrument type for water temperature profile measurement) in BUFR

| Code figure for I _x I _x I _x | Code figure for BUFR (Code table 0 22 067) | Instrument make and type | Meaning | | Status |
|---|--|---------------------------------|-----------------------|---------|-------------|
| | | | Equation Coefficients | | |
| | | | a | b | |
| 001 | 1 | Sippican T-4 | 6.472 | -2.16 | Operational |
| 002 | 2 | Sippican T-4 | 6.691 | -2.25 | Operational |
| 011 | 11 | Sippican T-5 | 6.828 | -1.82 | Operational |
| 021 | 21 | Sippican Fast Deep | 6.346 | -1.82 | Operational |
| 031 | 31 | Sippican T-6 | 6.472 | -2.16 | Operational |
| 032 | 32 | Sippican T-6 | 6.691 | -2.25 | Operational |
| 041 | 41 | Sippican T-7 | 6.472 | -2.16 | Operational |
| 042 | 42 | Sippican T-7 | 6.691 | -2.25 | Operational |
| 051 | 51 | Sippican Deep Blue | 6.472 | -2.16 | Operational |
| 052 | 52 | Sippican Deep Blue | 6.691 | -2.25 | Operational |
| 061 | 61 | Sippican T-10 | 6.301 | -2.16 | Operational |
| 071 | 71 | Sippican T-11 | 1.779 | -0.255 | Operational |
| 081 | 81 | Sippican AXBT (300 m probes) | 1.52 | 0.0 | Operational |
| 201 | 201 | TSK T-4 | 6.472 | -2.16 | Operational |
| 202 | 202 | TSK T-4 | 6.691 | -2.25 | Operational |
| 211 | 211 | TSK T-6 | 6.472 | -2.16 | Operational |
| 212 | 212 | TSK T-6 | 6.691 | -2.25 | Operational |
| 221 | 221 | TSK T-7 | 6.472 | -2.16 | Operational |
| 222 | 222 | TSK T-7 | 6.691 | -2.25 | Operational |
| 231 | 231 | TSK T-5 | 6.828 | -1.82 | Operational |
| 241 | 241 | TSK T-10 | 6.301 | -2.16 | Operational |
| 251 | 251 | TSK Deep Blue | 6.472 | -2.16 | Operational |
| 252 | 252 | TSK Deep Blue | 6.691 | -2.25 | Operational |
| 261 | 261 | TSK AXBT | | | Operational |
| 401 | 401 | Sparton XBT-1 | 6.301 | -2.16 | Operational |
| 411 | 411 | Sparton XBT-3 | 5.861 | -0.0904 | Operational |
| 421 | 421 | Sparton XBT-4 | 6.472 | -2.16 | Operational |
| 431 | 431 | Sparton XBT-5 | 6.828 | -1.82 | Operational |
| 441 | 441 | Sparton XBT-5DB | 6.828 | -1.82 | Operational |
| 451 | 451 | Sparton XBT-6 | 6.472 | -2.16 | Operational |
| 461 | 461 | Sparton XBT-7 | 6.472 | -2.16 | Operational |
| 462 | 462 | Sparton XBT-7 | 6.705 | -2.28 | Operational |
| 471 | 471 | Sparton XBT-7DB | 6.472 | -2.16 | Operational |
| 481 | 481 | Sparton XBT-10 | 6.301 | -2.16 | Operational |
| 491 | 491 | Sparton XBT-20 | 6.472 | -2.16 | Operational |
| 501 | 501 | Sparton XBT-20DB | 6.472 | -2.16 | Operational |
| 510 | 510 | Sparton 536 AXBT | 1.524 | 0 | Operational |
| 700 | 700 | Sippican XCTD Standard | | | Operational |
| 710 | 710 | Sippican XCTD Deep | | | Operational |
| 720 | 720 | Sippican AXCTD | | | Operational |

(continued)

(Common Code table C-3 - continued)

| Code figure for I _x I _x I _x | Code figure for BUFR (Code table 0 22 067) | Instrument make and type | Meaning | | Status |
|---|--|---|----------------|----------------------------|-------------|
| | | | a | Equation Coefficients b | |
| 730 | 730 | Sippican SXCTD | | | Operational |
| 741 | 741 | TSK XCTD | 3.42543 | -0.47 | Operational |
| 742 | 742 | TSK XCTD-2 | | | Operational |
| 743 | 743 | TSK XCTD-2F | | | Operational |
| 751 | 751 | TSK AXCTD | | | Operational |
| 780 | 780 | Sea-Bird SBE21 SEACAT Thermosalinograph | Not applicable | | Operational |
| 781 | 781 | Sea-Bird SBE45 MicroTSG Thermosalinograph | Not applicable | | Operational |
| 800 | 800 | Mechanical BT | Not applicable | | Operational |
| 810 | 810 | Hydrocast | Not applicable | | Operational |
| 820 | 820 | Thermistor chain | Not applicable | | Operational |
| 825 | 825 | Temperature (sonic) and pressure probes | Not applicable | | Operational |
| 830 | 830 | CTD | Not applicable | | Operational |
| 831 | 831 | CTD-P-ALACE float | Not applicable | | Operational |
| 840 | 840 | PROVOR, no conductivity sensor | Not applicable | | Operational |
| 841 | 841 | PROVOR, Sea-Bird conductivity sensor | Not applicable | | Operational |
| 842 | 842 | PROVOR, FSI conductivity sensor | Not applicable | | Operational |
| 843 | 843 | Polar Ocean Profiling System (POPS), PROVOR, SBE CTD | | | Operational |
| 844 | 844 | Profiling Float, ARVOR, Sea-Bird conductivity sensor | | | Operational |
| 845 | 845 | Webb Research, no conductivity sensor | Not applicable | | Operational |
| 846 | 846 | Webb Research, Sea-Bird conductivity sensor | Not applicable | | Operational |
| 847 | 847 | Webb Research, FSI conductivity sensor | Not applicable | | Operational |
| 850 | 850 | SOLO, no conductivity sensor | Not applicable | | Operational |
| 851 | 851 | SOLO, Sea-Bird conductivity sensor | Not applicable | | Operational |
| 852 | 852 | SOLO, FSI conductivity sensor | Not applicable | | Operational |
| 853 | 853 | Profiling Float, SOLO2 (SCRIPPS), Sea-Bird conductivity sensor | | | Operational |
| 854 | 854 | Reserved | | | Operational |
| 855 | 855 | Profiling Float, NINJA, no conductivity sensor | Not applicable | | Operational |
| 856 | 856 | Profiling Float, NINJA, SBE conductivity sensor | Not applicable | | Operational |
| 857 | 857 | Profiling Float, NINJA, FSI conductivity sensor | Not applicable | | Operational |
| 858 | 858 | Profiling Float, NINJA, TSK conductivity sensor | Not applicable | | Operational |
| 859 | 859 | Profiling Float, NEMO, no conductivity sensor | Not applicable | | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-3 - continued)

| Code figure for I _x I _x I _x | Code figure for BUFR (Code table 0 22 067) | Instrument make and type | Meaning | | Status |
|---|--|---|---------|----------------------------|-------------|
| | | | a | Equation Coefficients b | |
| 860 | 860 | Profiling Float, NEMO, SBE conductivity sensor | | Not applicable | Operational |
| 861 | 861 | Profiling Float, NEMO, FSI conductivity sensor | | Not applicable | Operational |
| 862-899 | 862-899 | Reserved | | | Operational |
| 900 | 900 | Sippican LMP-5 XBT | 9.727 | 0.0000473 | Operational |
| 901 | 901 | Ice-tethered Profiler (ITP), SBE CTD | | | Operational |
| 902-994 | 902-994 | Reserved | | | Operational |
| 995 | 995 | Instrument attached to marine mammals | | Not applicable | Operational |
| 996 | 996 | Instrument attached to animals other than marine mammals | | Not applicable | Operational |
| 997-999 | 997-999 | Reserved | | | Operational |
| | 1000-1022 | Reserved | | | Operational |
| | 1023 | Missing value | | | Operational |

Notes:

- (1) The depth is calculated from coefficients a and b and the time t as follows: $z = at + 10^{-3} bt^2$
- (2) All unassigned numbers are reserved for future use.
- (3) The values of a and b are supplied for information only.

COMMON CODE TABLE C-4: Water temperature profile recorder types

Common Code table { Code table 4770 - X_RX_R (Recorder type) - for alphanumeric codes
 { Code table 0 22 068 (Water temperature profile recorder types) in BUFR

| Code figure for X _R X _R | Code figure for BUFR (Code table 0 22 068) | Meaning | Status |
|--|--|---|-------------|
| 01 | 1 | Sippican Strip Chart Recorder | Operational |
| 02 | 2 | Sippican MK2A/SSQ-61 | Operational |
| 03 | 3 | Sippican MK-9 | Operational |
| 04 | 4 | Sippican AN/BHQ-7/MK8 | Operational |
| 05 | 5 | Sippican MK-12 | Operational |
| 06 | 6 | Sippican MK-21 | Operational |
| 08 | 8 | Sippican MK-10 | Operational |
| 10 | 10 | Sparton SOC BT/SV Processor Model 100 | Operational |
| 11 | 11 | Lockheed-Sanders Model OL5005 | Operational |
| 20 | 20 | ARGOS XBT-ST | Operational |
| 21 | 21 | CLS-ARGOS/Protecno XBT-ST Model-1 | Operational |
| 22 | 22 | CLS-ARGOS/Protecno XBT-ST Model-2 | Operational |
| 30 | 30 | BATHY Systems SA-810 | Operational |
| 31 | 31 | Scripps Metrobyte Controller | Operational |
| 32 | 32 | Murayama Denki Z-60-16 III | Operational |
| 33 | 33 | Murayama Denki Z-60-16 II | Operational |
| 34 | 34 | Protecno ETSM2 | Operational |
| 35 | 35 | Nautilus Marine Service NMS-XBT | Operational |
| 40 | 40 | TSK MK-2A | Operational |
| 41 | 41 | TSK MK-2S | Operational |
| 42 | 42 | TSK MK-30 | Operational |
| 43 | 43 | TSK MK-30N | Operational |
| 45 | 45 | TSK MK-100 | Operational |
| 46 | 46 | TSK MK-130 Compatible recorder for both XBT and XCTD | Operational |
| 47 | 47 | TSK MK-130A XCTD recorder | Operational |
| 48 | 48 | TSK AXBT RECEIVER MK-300 | Operational |
| 50 | 50 | JMA ASTOS | Operational |
| 60 | 60 | ARGOS communications, sampling on up transit | Operational |
| 61 | 61 | ARGOS communications, sampling on down transit | Operational |
| 62 | 62 | Orbcomm communications, sampling on up transit | Operational |
| 63 | 63 | Orbcomm communications, sampling on down transit | Operational |
| 64 | 64 | Iridium communications, sampling on up transit | Operational |
| 65 | 65 | Iridium communications, sampling on down transit | Operational |
| 70 | 70 | CSIRO Devil-1 XBT acquisition system | Operational |
| 71 | 71 | CSIRO Devil-2 XBT acquisition system | Operational |
| 80 | 80 | Applied Microsystems Ltd., MICRO-SVT&P | Operational |
| 81 | 81 | Sea Mammal Research Unit, Univ. St. Andrews, UK, uncorrected salinity from a sea mammal mounted instrument | Operational |
| 82 | 82 | Sea Mammal Research Unit, Univ. St. Andrews, UK, corrected salinity from a sea mammal mounted instrument | Operational |
| 99 | 99 | Unknown | Operational |
| | 127 | Missing value | Operational |

Note: All unassigned numbers are reserved for future use.

COMMON CODE TABLE C-5: *Satellite identifier*

Common Code table { I₆ I₆ I₆ for alphanumeric codes
 Code table 0 01 007 in BUFR
 Code used in GRIB Edition 2

(EVEN DECILES INDICATE POLAR-ORBITING SATELLITES AND ODD DECILES INDICATE GEOSTATIONARY SATELLITES.)

| Code figure for I ₆ I ₆ I ₆ | Code figure for BUFR (Code table 0 01 007) | Code figure for GRIB Edition 2 | | Status |
|---|--|--------------------------------------|-------------|-------------|
| 000 | 0 | 0 | Reserved | Operational |
| 001-099: Numbers allocated to Europe | | | | Operational |
| 001 | 1 | 1 | ERS 1 | Operational |
| 002 | 2 | 2 | ERS 2 | Operational |
| 003 | 3 | 3 | METOP-1 | Operational |
| 004 | 4 | 4 | METOP-2 | Operational |
| 005 | 5 | 5 | METOP-3 | Operational |
| 020 | 20 | 20 | SPOT1 | Operational |
| 021 | 21 | 21 | SPOT2 | Operational |
| 022 | 22 | 22 | SPOT3 | Operational |
| 023 | 23 | 23 | SPOT4 | Operational |
| 040 | 40 | 40 | OERSTED | Operational |
| 041 | 41 | 41 | CHAMP | Operational |
| 042 | 42 | 42 | TerraSAR-X | Operational |
| 046 | 46 | 46 | SMOS | Operational |
| 050 | 50 | 50 | METEOSAT 3 | Operational |
| 051 | 51 | 51 | METEOSAT 4 | Operational |
| 052 | 52 | 52 | METEOSAT 5 | Operational |
| 053 | 53 | 53 | METEOSAT 6 | Operational |
| 054 | 54 | 54 | METEOSAT 7 | Operational |
| 055 | 55 | 55 | METEOSAT 8 | Operational |
| 056 | 56 | 56 | METEOSAT 9 | Operational |
| 057 | 57 | 57 | METEOSAT 10 | Operational |
| 058 | 58 | 58 | METEOSAT 1 | Operational |
| 059 | 59 | 59 | METEOSAT 2 | Operational |
| 060 | 60 | 60 | ENVISAT | Operational |
| 070 | 70 | 70 | METEOSAT 11 | Operational |
| 100-199: Numbers allocated to Japan | | | | Operational |
| 120 | 120 | 120 | ADEOS | Operational |
| 121 | 121 | 121 | ADEOS II | Operational |
| 140 | 140 | 140 | GOSAT | Operational |
| 150 | 150 | 150 | GMS 3 | Operational |
| 151 | 151 | 151 | GMS 4 | Operational |
| 152 | 152 | 152 | GMS 5 | Operational |
| 171 | 171 | 171 | MTSAT-1R | Operational |
| 172 | 172 | 172 | MTSAT-2 | Operational |

(continued)

(Common Code table C-5 - continued)

| Code figure for I ₆ I ₆ I ₆ | Code figure for BUFR (Code table 0 01 007) | Code figure for GRIB Edition 2 | | Status |
|---|--|--------------------------------------|-----------|-------------|
| 200-299: Numbers allocated to USA | | | | Operational |
| 200 | 200 | 200 | NOAA 8 | Operational |
| 201 | 201 | 201 | NOAA 9 | Operational |
| 202 | 202 | 202 | NOAA 10 | Operational |
| 203 | 203 | 203 | NOAA 11 | Operational |
| 204 | 204 | 204 | NOAA 12 | Operational |
| 205 | 205 | 205 | NOAA 14 | Operational |
| 206 | 206 | 206 | NOAA 15 | Operational |
| 207 | 207 | 207 | NOAA 16 | Operational |
| 208 | 208 | 208 | NOAA 17 | Operational |
| 209 | 209 | 209 | NOAA 18 | Operational |
| | | | | |
| 220 | 220 | 220 | LANDSAT 5 | Operational |
| 221 | 221 | 221 | LANDSAT 4 | Operational |
| 222 | 222 | 222 | LANDSAT 7 | Operational |
| 223 | 223 | 223 | NOAA 19 | Operational |
| 224 | 224 | 224 | NPP | Operational |
| | | | | |
| 240 | 240 | 240 | DMSP 7 | Operational |
| 241 | 241 | 241 | DMSP 8 | Operational |
| 242 | 242 | 242 | DMSP 9 | Operational |
| 243 | 243 | 243 | DMSP 10 | Operational |
| 244 | 244 | 244 | DMSP 11 | Operational |
| 245 | 245 | 245 | DMSP 12 | Operational |
| 246 | 246 | 246 | DMSP 13 | Operational |
| 247 | 247 | 247 | DMSP 14 | Operational |
| 248 | 248 | 248 | DMSP 15 | Operational |
| 249 | 249 | 249 | DMSP 16 | Operational |
| | | | | |
| 250 | 250 | 250 | GOES 6 | Operational |
| 251 | 251 | 251 | GOES 7 | Operational |
| 252 | 252 | 252 | GOES 8 | Operational |
| 253 | 253 | 253 | GOES 9 | Operational |
| 254 | 254 | 254 | GOES 10 | Operational |
| 255 | 255 | 255 | GOES 11 | Operational |
| 256 | 256 | 256 | GOES 12 | Operational |
| 257 | 257 | 257 | GOES 13 | Operational |
| 258 | 258 | 258 | GOES 14 | Operational |
| 259 | 259 | 259 | GOES 15 | Operational |
| | | | | |
| 260 | 260 | 260 | JASON 1 | Operational |
| 261 | 261 | 261 | JASON 2 | Operational |
| | | | | |
| 281 | 281 | 281 | QUIKSCAT | Operational |
| 282 | 282 | 282 | TRMM | Operational |
| 283 | 283 | 283 | CORIOLIS | Operational |
| 285 | 285 | 285 | DMSP17 | Operational |
| 286 | 286 | 286 | DMSP18 | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-5 - continued)

| Code figure for I ₆ I ₆ I ₆ | Code figure for BUFR (Code table 0 01 007) | Code figure for GRIB Edition 2 | | Status |
|---|--|--------------------------------------|------------------|-----------------|
| 300-399: Numbers allocated to Russian Federation | | | | Operational |
| 310 | 310 | 310 | GOMS 1 | Operational |
| 311 | 311 | 311 | GOMS 2 | Operational |
| 320 | 320 | 320 | METEOR 2-21 | Operational |
| 321 | 321 | 321 | METEOR 3-5 | Operational |
| 322 | 322 | 322 | METEOR 3M-1 | Operational |
| 323 | 323 | 323 | METEOR 3M-2 | Operational |
| 341 | 341 | 341 | RESURS 01-4 | Operational |
| 400-499: Numbers allocated to India | | | | Operational |
| 410 | 410 | 410 | KALPANA-1 | Operational |
| 430 | 430 | 430 | INSAT 1B | Operational |
| 431 | 431 | 431 | INSAT 1C | Operational |
| 432 | 432 | 432 | INSAT 1D | Operational |
| 441 | 441 | 441 | SARAL | Operational |
| 450 | 450 | 450 | INSAT 2A | Operational |
| 451 | 451 | 451 | INSAT 2B | Operational |
| 452 | 452 | 452 | INSAT 2E | Operational |
| 470 | 470 | 470 | INSAT 3A | Operational |
| 471 | 471 | 471 | INSAT 3D | Operational |
| 472 | 472 | 472 | INSAT 3E | Operational |
| 500-599: Numbers allocated to China | | | | Operational |
| 500 | 500 | 500 | FY-1C | Operational |
| 501 | 501 | 501 | FY-1D | Operational |
| 510 | 510 | 510 | FY-2 | Operational |
| 512 | 512 | 512 | FY-2B | Operational |
| 513 | 513 | 513 | FY-2C | Operational |
| 514 | 514 | 514 | FY-2D | Operational |
| 515 | 515 | 515 | FY-2E | Pre-operational |
| 520 | 520 | 520 | FY-3A | Operational |
| 600-699: Numbers allocated to Europe | | | | Operational |
| 700-799: Numbers allocated to USA | | | | Operational |
| 700 | 700 | 700 | TIROS M (ITOS 1) | Operational |
| 701 | 701 | 701 | NOAA 1 | Operational |
| 702 | 702 | 702 | NOAA 2 | Operational |
| 703 | 703 | 703 | NOAA 3 | Operational |
| 704 | 704 | 704 | NOAA 4 | Operational |
| 705 | 705 | 705 | NOAA 5 | Operational |
| 706 | 706 | 706 | NOAA 6 | Operational |
| 707 | 707 | 707 | NOAA 7 | Operational |

(continued)

(Common Code table C-5 - continued)

| Code figure for I ₆ I ₆ I ₆ | Code figure for BUFR (Code table 0 01 007) | Code figure for GRIB Edition 2 | | Status |
|---|--|--------------------------------------|------------------------|-------------|
| 708 | 708 | 708 | TIROS-N | Operational |
| 710 | 710 | 710 | GOES (SMS 1) | Operational |
| 711 | 711 | 711 | GOES (SMS 2) | Operational |
| 720 | 720 | 720 | TOPEX | Operational |
| 721 | 721 | 721 | GFO (GEOSAT follow on) | Operational |
| 722 | 722 | 722 | GRACE A | Operational |
| 723 | 723 | 723 | GRACE B | Operational |
| 731 | 731 | 731 | GOES 1 | Operational |
| 732 | 732 | 732 | GOES 2 | Operational |
| 733 | 733 | 733 | GOES 3 | Operational |
| 734 | 734 | 734 | GOES 4 | Operational |
| 735 | 735 | 735 | GOES 5 | Operational |
| 740 | 740 | 740 | COSMIC-1 | Operational |
| 741 | 741 | 741 | COSMIC-2 | Operational |
| 742 | 742 | 742 | COSMIC-3 | Operational |
| 743 | 743 | 743 | COSMIC-4 | Operational |
| 744 | 744 | 744 | COSMIC-5 | Operational |
| 745 | 745 | 745 | COSMIC-6 | Operational |
| 763 | 763 | 763 | NIMBUS 3 | Operational |
| 764 | 764 | 764 | NIMBUS 4 | Operational |
| 765 | 765 | 765 | NIMBUS 5 | Operational |
| 766 | 766 | 766 | NIMBUS 6 | Operational |
| 767 | 767 | 767 | NIMBUS 7 | Operational |
| 780 | 780 | 780 | ERBS | Operational |
| 781 | 781 | 781 | UARS | Operational |
| 782 | 782 | 782 | EARTH PROBE | Operational |
| 783 | 783 | 783 | TERRA | Operational |
| 784 | 784 | 784 | AQUA | Operational |
| 785 | 785 | 785 | AURA | Operational |
| 800-849 Numbers allocated to other satellite operators | | | | Operational |
| 800 | 800 | 800 | SUNSAT | Operational |
| 820 | 820 | 820 | SAC-C | Operational |
| 850-998 | 850-998 | 850-998 | Reserved | Operational |
| 999 Missing value | 999-1022 | 999-65534 | Reserved | Operational |
| | 1023 | 65535 | Missing value | Operational |

COMMON CODE TABLE C-6: List of units for *TDCFs*

| Code figure | | Conventional abbreviation | Abbreviation in IA5/ASCII (5) | Abbreviation in ITA2 (5) | Definition in base units (2) |
|--|----------------|---------------------------|-------------------------------|--------------------------|------------------------------|
| Base SI units (1) | | | | | |
| 001 | metre | m | m | M | |
| 002 | kilogram | kg | kg | KG | |
| 003 | second | s | s | S | |
| 004 | ampere | A | A | A | |
| 005 | kelvin | K | K | K | |
| 006 | mole | mol | mol | MOL | |
| 007 | candela | cd | cd | CD | |
| Supplementary SI Units (1) | | | | | |
| 021 | radian | rad | rad | RAD | |
| 022 | steradian | sr | sr | SR | |
| Derived SI Units with special names (1) | | | | | |
| 030 | hertz | Hz | Hz | HZ | s^{-1} |
| 031 | newton | N | N | N | $kg\ m\ s^{-2}$ |
| 032 | pascal | Pa | Pa | PAL | $kg\ m^{-1}\ s^{-2}$ |
| 033 | joule | J | J | J | $kg\ m^2\ s^{-2}$ |
| 034 | watt | W | W | W | $kg\ m^2\ s^{-3}$ |
| 035 | coulomb | C | C | C | A s |
| 036 | volt | V | V | V | $kg\ m^2\ s^{-3}\ A^{-1}$ |
| 037 | farad | F | F | F | $kg^{-1}\ m^{-2}\ s^4\ A^2$ |
| 038 | ohm | Ω | Ohm | OHM | $kg\ m^2\ s^{-3}\ A^{-2}$ |
| 039 | siemens | S | S | SIE | $kg^{-1}\ m^{-2}\ s^3\ A^2$ |
| 040 | weber | Wb | Wb | WB | $kg\ m^2\ s^{-2}\ A^{-1}$ |
| 041 | tesla | T | T | T | $kg\ s^{-2}\ A^{-1}$ |
| 042 | henry | H | H | H | $kg\ m^2\ s^{-2}\ A^{-2}$ |
| 060 | degree Celsius | $^{\circ}C$ | Cel | CEL | K+273.15 |
| 070 | lumen | lm | lm | LM | cd sr |
| 071 | lux | lx | lx | LX | cd sr m^{-2} |
| 080 | becquerel | Bq | Bq | BQ | s^{-1} |
| 081 | gray | Gy | Gy | GY | $m^2\ s^{-2}$ |
| 082 | sievert | Sv | Sv | SV | $m^2\ s^{-2}$ |
| SI Unit prefixes (1) (3) (4) | | | | | |
| no | (yotta) | (Y) | (Y) | (Y) | |
| no | (zetta) | (Z) | (Z) | (Z) | |
| no | exa | E | E | E | |
| no | peta | P | P | PE | |
| no | tera | T | T | T | |
| no | giga | G | G | G | |
| no | mega | M | M | MA | |
| no | kilo | k | k | K | |
| no | hecto | h | h | H | |
| no | deca | da | da | DA | |
| no | deci | d | d | D | |

(continued)

(Common Code table C-6 - continued)

| Code figure | | Conventional abbreviation | Abbreviation in IA5/ASCII (5) | Abbreviation in ITA2 (5) | Definition in base units (2) |
|-------------|--|---------------------------|-------------------------------|--------------------------|------------------------------|
| no | centi | c | c | C | |
| no | milli | m | m | M | |
| no | micro | μ | u | U | |
| no | nano | n | n | N | |
| no | pico | p | p | P | |
| no | femto | f | f | F | |
| no | atto | a | a | A | |
| no | (zepto) | (z) | (z) | | |
| no | (yocto) | (y) | (y) | | |
| | Other, non-SI, units recognized by CGPM (4) | | | | |
| 110 | degree (angle) | ° | deg | DEG | |
| 111 | minute (angle) | ' | ' | MNT | |
| 112 | second (angle) | " | " | SEC | |
| 120 | litre | l or L | l or L | L | |
| 130 | minute (time) | min | min | MIN | |
| 131 | hour | h | h | HR | |
| 132 | day | d | d | D | |
| 150 | tonne | t | t | TNE | |
| 160 | electron volt | eV | eV | EV | |
| 161 | atomic mass unit | u | u | U | |
| 170 | astronomic unit | AU | AU | ASU | |
| 171 | parsec | pc | pc | PRS | |
| | Non-SI Units tolerated because of widespread use | | | | |
| 200 | nautical mile | | | | |
| 201 | knot | kt | kt | KT | |
| 210 | decibel (6) | dB | dB | DB | |
| 220 | hectare | ha | ha | HAR | |
| 230 | week | | | | |
| 231 | year | a | a | ANN | |
| | Other Units as used by WMO (7) | | | | |
| 300 | percent | % | % | PERCENT | |
| 301 | parts per thousand | ‰ | 0/00 | PERTHOU | |
| 310 | eighths of cloud | okta | okta | OKTA | |
| 320 | degrees true | ° | deg | DEG | |
| 321 | degrees per second | degree/s | deg/s | DEG/S | |
| 350 | degrees Celsius (8) | °C | C | C | |
| 351 | degrees Celsius per metre | °C/m | C/m | C/M | |
| 352 | degrees Celsius per 100 metres | °C/100 m | C/100 m | C/100 M | |
| 360 | Dobson Unit (9) | DU | DU | DU | |

(continued)

COMMON CODE TABLES

(Common Code table C-6 - continued)

| Code figure | | Conventional abbreviation | Abbreviation in IA5/ASCII (5) | Abbreviation in ITA2 (5) | Definition in base units (2) |
|-------------|--|-------------------------------------|-------------------------------|--------------------------|------------------------------|
| 430 | month | mon | mon | MON | |
| 441 | per second (same as hertz) | s ⁻¹ | /s | /S | |
| 442 | per second squared | s ⁻² | s-2 | | |
| 501 | knots per 1000 metres | kt/1000 m | kt/km | KT/KM | |
| 510 | foot | ft | ft | FT | |
| 511 | inch | in | in | IN | |
| 520 | decipascals per second (microbar per second) | dPa s ⁻¹ | dPa/s | DPAL/S | |
| 521 | centibars per second | cb s ⁻¹ | cb/s | CB/S | |
| 522 | centibars per 12 hours | cb/12 h | cb/12 h | CB/12 HR | |
| 523 | dekapascal | daPa | daPa | DAPAL | |
| 530 | hectopascal | hPa | hPa | HPAL | |
| 531 | hectopascals per second | hPa s ⁻¹ | hPa/s | HPAL/S | |
| 532 | hectopascals per hour | hPa h ⁻¹ | hPa/h | HPAL/HR | |
| 533 | hectopascals per 3 hours | hPa/3 h | hPa/3 h | HPAL/3 HR | |
| 535 | nanobar = hPa 10 ⁻⁶ | nbar | nbar | NBAR | |
| 620 | grams per kilogram | g kg ⁻¹ | g/kg | G/KG | |
| 621 | grams per kilogram per second | g kg ⁻¹ s ⁻¹ | g kg-1 s-1 | | |
| 622 | kilograms per kilogram | kg kg ⁻¹ | kg/kg | KG/KG | |
| 623 | kilograms per kilogram per second | kg kg ⁻¹ s ⁻¹ | kg kg-1 s-1 | | |
| 624 | kilograms per square metre | kg m ⁻² | kg m-2 | | |
| 630 | acceleration due to gravity | g | g | | |
| 631 | geopotential metre | gpm | gpm | | |
| 710 | millimetre | mm | mm | MM | |
| 711 | millimetres per second | mm s ⁻¹ | mm/s | MM/S | |
| 712 | millimetres per hour | mm h ⁻¹ | mm/h | MM/HR | |
| 713 | millimetres to the sixth power per cubic metre | mm ⁶ m ⁻³ | mm6 m-3 | | |
| 715 | centimetre | cm | cm | CM | |
| 716 | centimetres per second | cm s ⁻¹ | cm/s | CM/S | |
| 717 | centimetres per hour | cm h ⁻¹ | cm/h | CM/HR | |
| 720 | decimetre | dm | dm | DM | |
| 731 | metres per second | m s ⁻¹ | m/s | M/S | |
| 732 | metres per second per metre | m s ⁻¹ /m | m s-1/m | | |
| 733 | metres per second per 1000 metres | m s ⁻¹ /1000 m | m s-1/km | | |
| 734 | square metres | m ² | m2 | M2 | |
| 735 | square metres per second | m ² s ⁻¹ | m2/s | M2/S | |
| 740 | kilometre | km | km | KM | |
| 741 | kilometres per hour | km h ⁻¹ | km/h | KM/HR | |
| 742 | kilometres per day | km/d | km/d | KM/D | |
| 743 | per metre | m ⁻¹ | m-1 | /M | |
| 750 | becquerels per litre | Bq l ⁻¹ | Bq/l | BQ/L | |
| 751 | becquerels per square metre | Bq m ⁻² | Bq m-2 | BQ/M2 | |
| 752 | becquerels per cubic metre | Bq m ⁻³ | Bq m-3 | BQ/M3 | |
| 753 | millisievert | mSv | mSv | MSV | |

(continued)

(Common Code table C-6 - continued)

| Code figure | | Conventional abbreviation | Abbreviation in IA5/ASCII (5) | Abbreviation in ITA2 (5) | Definition in base units (2) |
|-------------|---|---|---|--------------------------|------------------------------|
| 760 | metres per second squared | m s^{-2} | m s-2 | | |
| 761 | square metres second | $\text{m}^2 \text{s}$ | m2 s | | |
| 762 | square metres per second squared | $\text{m}^2 \text{s}^{-2}$ | m2 s-2 | | |
| 763 | square metres per radian second | $\text{m}^2 \text{rad}^{-1} \text{s}$ | m2 rad-1 s | | |
| 764 | square metres per hertz | $\text{m}^2 \text{Hz}^{-1}$ | m2/Hz | | |
| 765 | cubic metres | m^3 | m3 | | |
| 766 | cubic metres per second | $\text{m}^3 \text{s}^{-1}$ | m3/s | | |
| 767 | cubic metres per cubic metre | $\text{m}^3 \text{m}^{-3}$ | m3 m-3 | | |
| 768 | metres to the fourth power | m^4 | m4 | | |
| 769 | metres to the two thirds power per second | $\text{m}^{2/3} \text{s}^{-1}$ | m2/3 s-1 | | |
| 772 | logarithm per metre | $\log (\text{m}^{-1})$ | log (m-1) | | |
| 773 | logarithm per square metre | $\log (\text{m}^{-2})$ | log (m-2) | | |
| 775 | kilograms per metre | kg m^{-1} | kg/m | | |
| 776 | kilograms per square metre per second | $\text{kg m}^{-2} \text{s}^{-1}$ | kg m-2 s-1 | | |
| 777 | kilograms per cubic metre | kg m^{-3} | kg m-3 | | |
| 778 | per square kilogram per second | $\text{kg}^{-2} \text{s}^{-1}$ | kg-2 s-1 | | |
| 779 | seconds per metre | s m^{-1} | s/m | | |
| 785 | kelvin metres per second | K m s^{-1} | K m s-1 | | |
| 786 | kelvins per metre | K m^{-1} | K/m | | |
| 787 | kelvin square metres per kilogram per second | $\text{K m}^2 \text{kg}^{-1} \text{s}^{-1}$ | K m2 kg-1 s-1 | | |
| 788 | moles per mole | mol mol^{-1} | mol/mol | | |
| 790 | radians per metre | rad m^{-1} | rad/m | | |
| 795 | newtons per square metre | N m^{-2} | N m-2 | | |
| 800 | pascals per second | Pa s^{-1} | Pa/s | | |
| 801 | kilopascal | kPa | kPa | | |
| 805 | joules per square metre | J m^{-2} | J m-2 | | |
| 806 | joules per kilogram | J kg^{-1} | J/kg | | |
| 810 | watts per metre per steradian | $\text{W m}^{-1} \text{sr}^{-1}$ | W m-1 sr-1 | | |
| 811 | watts per square metre | W m^{-2} | W m-2 | | |
| 812 | watts per square metre per steradian | $\text{W m}^{-2} \text{sr}^{-1}$ | W m-2 sr-1 | | |
| 813 | watts per square metre per steradian per centimetre | $\text{W m}^{-2} \text{sr}^{-1} \text{cm}^{-1}$ | $\text{W m}^{-2} \text{sr}^{-1} \text{cm}^{-1}$ | | |
| 814 | watts per square metre per steradian per metre | $\text{W m}^{-2} \text{sr}^{-1} \text{m}^{-1}$ | W m-2 sr-1 m-1 | | |
| 815 | watts per cubic metre per steradian | $\text{W m}^{-3} \text{sr}^{-1}$ | W m-3 sr-1 | | |
| 820 | siemens per metre | S m^{-1} | S/m | | |
| 825 | square degrees | degree ² | deg2 | | |
| 830 | becquerel seconds per cubic metre | Bq s m^{-3} | Bq s m-3 | | |
| 835 | decibels per metre | dB m^{-1} | dB/m | | |
| 836 | decibels per degree | dB degree^{-1} | dB/deg | | |
| 841 | pH unit | pH unit | pH unit | | |
| 842 | N units | N units | N units | | |

(continued)

COMMON CODE TABLES

(Common Code table C-6 - continued)

Notes:

- (1) The international system of units, *Système International d'Unités* (SI), was established by the eleventh General Conference on Weights and Measures in 1960, and extended at the 1980 conference. There are seven base units, two dimensionless supplementary units and a set of prefixes for decimal scaling. These may be combined to give compound units. Some compound units have special names, and are called derived Units.
- (2) When documenting compound SI units, each symbol for each base unit has been separated from the others by a space. There is no space between the unit and any prefix or exponent. Any prefix establishes a new unit to which any exponent applies (e.g. $\text{km}^2 = (\text{km})^2 = \text{m}^6$ not $\text{k}(\text{m}^2) = \text{m}^5$). Prefixes must be in the case specified. The full name of the unit must not start with an upper case letter. If the solidus (/) is used, there must be only one. There is no space before or after it.
- (3) Prefixes beyond exa and atto have been proposed but not yet adopted. Use of the prefixes hecto, deca, deci and centi is discouraged.
- (4) Prefixes generally should not be used with units having non-decimal multiples and sub-multiples, such as units of time and angle, or with knots and nautical miles.
- (5) Non-WMO abbreviations with limited character sets taken from ISO 2955-1983. Other abbreviations try to be consistent with this.
- (6) The decibel is one tenth of a bel, which is the decimal logarithm of a ratio of two powers. Frequently, suffixes are supplied to indicate information about one of the quantities in the ratio, such as dB(mW), dBm, **dBZ**, dBW, dBmW, dB($\mu\text{V}/\text{m}$). It is recommended that only dB is used, with the full meaning of the ratio explained, including reference levels.
- (7) This list consists of the units not mentioned previously that occur in existing WMO Manuals.
- (8) The abbreviation for degrees Celsius proposed for WMO use, C, could be confused with Coulombs. In this case, Amperes second should be used instead.
- (9) Dobson Unit = DU. One Dobson Unit corresponds to a layer of 0.01 mm of pure ozone, if the whole column of atmosphere were compressed at $P = 1013 \text{ hPa}$ and $T = 0^\circ\text{C}$.

COMMON CODE TABLE C-7: *Tracking technique/status of system used*

Common Code table { Code table 3872 - s_as_a for alphanumeric code
Code table 0 02 014 in BUFR

| Code figure for s _a s _a | Code figure for BUFR (Code table 0 02 014) | | Status |
|--|--|--|-------------|
| 00 | 0 | No wind finding | Operational |
| 01 | 1 | Automatic with auxiliary optical direction finding | Operational |
| 02 | 2 | Automatic with auxiliary radio direction finding | Operational |
| 03 | 3 | Automatic with auxiliary ranging | Operational |
| 04 | 4 | Not used | Operational |
| 05 | 5 | Automatic with multiple VLF-Omega signals | Operational |
| 06 | 6 | Automatic cross chain Loran-C | Operational |
| 07 | 7 | Automatic with auxiliary wind profiler | Operational |
| 08 | 8 | Automatic satellite navigation | Operational |
| 09-18 | 9-18 | Reserved | Operational |
| 19 | 19 | Tracking technique not specified | Operational |
| | | TRACKING TECHNIQUES/STATUS OF ASAP SYSTEM | Operational |
| | | STATUS OF SHIP SYSTEM | Operational |
| 20 | 20 | Vessel stopped | Operational |
| 21 | 21 | Vessel diverted from original destination | Operational |
| 22 | 22 | Vessel's arrival delayed | Operational |
| 23 | 23 | Container damaged | Operational |
| 24 | 24 | Power failure to container | Operational |
| 25-28 | 25-28 | Reserved for future use | Operational |
| 29 | 29 | Other problems | Operational |
| | | SOUNDING SYSTEM | Operational |
| 30 | 30 | Major power problems | Operational |
| 31 | 31 | UPS inoperative | Operational |
| 32 | 32 | Receiver hardware problems | Operational |
| 33 | 33 | Receiver software problems | Operational |
| 34 | 34 | Processor hardware problems | Operational |
| 35 | 35 | Processor software problems | Operational |
| 36 | 36 | NAVAID system damaged | Operational |
| 37 | 37 | Shortage of lifting gas | Operational |
| 38 | 38 | Reserved | Operational |
| 39 | 39 | Other problems | Operational |
| | | LAUNCH FACILITIES | Operational |
| 40 | 40 | Mechanical defect | Operational |
| 41 | 41 | Material defect (hand launcher) | Operational |
| 42 | 42 | Power failure | Operational |
| 43 | 43 | Control failure | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-7 - continued)

| Code figure for S _a S _a | Code figure for BUFR (Code table 0 02 014) | | Status |
|--|--|---|-------------|
| 44 | 44 | Pneumatic/hydraulic failure | Operational |
| 45 | 45 | Other problems | Operational |
| 46 | 46 | Compressor problems | Operational |
| 47 | 47 | Balloon problems | Operational |
| 48 | 48 | Balloon release problems | Operational |
| 49 | 49 | Launcher damaged | Operational |
| | | DATA ACQUISITION SYSTEM | Operational |
| 50 | 50 | R/S receiver antenna defect | Operational |
| 51 | 51 | NAVAID antenna defect | Operational |
| 52 | 52 | R/S receiver cabling (antenna) defect | Operational |
| 53 | 53 | NAVAID antenna cabling defect | Operational |
| 54-58 | 54-58 | Reserved | Operational |
| 59 | 59 | Other problems | Operational |
| | | COMMUNICATIONS | Operational |
| 60 | 60 | ASAP communications defect | Operational |
| 61 | 61 | Communications facility rejected data | Operational |
| 62 | 62 | No power at transmitting antenna | Operational |
| 63 | 63 | Antenna cable broken | Operational |
| 64 | 64 | Antenna cable defect | Operational |
| 65 | 65 | Message transmitted power below normal | Operational |
| 66-68 | 66-68 | Reserved | Operational |
| 69 | 69 | Other problems | Operational |
| 70 | 70 | All systems in normal operation | Operational |
| 71-98 | 71-98 | Reserved | Operational |
| 99 | 99 | Status of system and its components not specified | Operational |
| | 100-126 | Reserved | Operational |
| | 127 | Missing value | Operational |

COMMON CODE TABLE C-8: Satellite instruments

Common Code table Code table 0 02 019 in BUFR

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|--------|--|--|--|-------------|
| 10 | BNSC | Radiometer | AATSR | Advanced along track scanning radiometer | Operational |
| 11 | BNSC | Radiometer | ATSR | Along track scanning radiometer | Operational |
| 12 | BNSC | Radiometer | ATSR-2 | Along track scanning radiometer - 2 | Operational |
| 13 | BNSC | Radiometer | MWR | Microwave radiometer | Operational |
| 30 | CNES | Communications | ARGOS | | Operational |
| 40 | CNES | Lidar | Laser reflectors | | Operational |
| 41 | CNES | Lidar | DORIS | Doppler orbitography and radio-positioning integrated by satellite | Operational |
| 42 | CNES | Lidar | DORIS-NG | Doppler orbitography and radio-positioning integrated by satellite-NG | Operational |
| 47 | CNES | Radar altimeter | POSEIDON-1 (SSALT1) | Positioning ocean solid Earth ice dynamics orbiting navigator (single frequency solid state radar altimeter) | Operational |
| 48 | CNES | Radar altimeter | POSEIDON-2 (SSALT2) | Positioning ocean solid Earth ice dynamics orbiting navigator (double frequency solid state radar altimeter) | Operational |
| 50 | CNES | Imaging radiometer | ATSR/M | ATSR/M | Operational |
| 51 | CNES | High resolution optical imager | HRG | | Operational |
| 52 | CNES | Radiometer | HRV | High-resolution visible | Operational |
| 53 | CNES | Radiometer | HRVIR | High-resolution visible and infrared | Operational |
| 54 | CNES | Radiometer | ScaRaB/MV2 | Scanner for Earth's radiation budget | Operational |
| 55 | CNES | Radiometer | POLDER | POLDER | Operational |
| 60 | CNES | Spectrometer | VEGETATION | VEGETATION | Operational |
| 61 | CNES | Spectrometer | WINDII | WINDII | Operational |
| 80 | CSA | Communications | RADARSAT DTT | | Operational |
| 81 | CSA | Communications | RADARSAT TTC | Operational | |
| 85 | CSA | Radar | SAR (CSA) | Synthetic aperture radar (CSA) | Operational |
| 90 | CSA | Radiometer | MOPITT | Measurements of pollution in the troposphere | Operational |
| 91 | CSA | Atmospheric chemistry instrument | OSIRIS | Optical spectrograph and Infra-red imaging system | Operational |
| 97 | CSIRO | Radiometer | Panchromatic imager | | Operational |
| 98 | CRCSS | Atmospheric temperature and humidity sounder | GPS receiver | | Operational |
| 102 | DLR | Radiometer | CHAMP GPS sounder | GPS turborogue space receiver (TRSR) | Operational |
| 103 | DLR | Radiometer | IGOR | Integrated GPS and Occultation Receiver | Operational |
| 116 | DLR | Magnetometer | CHAMP gravity package (Accelerometer+GPS) | STAR accelerometer | Operational |
| 117 | DLR | Magnetometer | CHAMP magnetometry package (1 scalar+ 2 vector magnetometer) | Overhauser magnetometer (OVM) and fluxgate magnetometer (FGM) | Operational |
| 120 | ESA | Communications | ENVISAT Comms | Communications package on ENVISAT | Operational |

(continued)

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|------------------|---|-----------------------|--|-------------|
| 121 | ESA | Communications | ERS Comms | Communication package for ERS | Operational |
| 130 | ESA | Lidar | ALADIN | Atmospheric laser Doppler instrument | Operational |
| 131 | ESA | Lidar | ATLID | Atmospheric lidar | Operational |
| 140 | ESA | Radar | AMI/SAR/image | Active microwave instrumentation image mode | Operational |
| 141 | ESA | Radar | AMI/SAR/wave | Active microwave instrumentation wave mode | Operational |
| 142 | ESA | Radar | AMI/scatterometer | Active microwave instrumentation wind mode | Operational |
| 143 | ESA | Radar | ASAR | ASAR | Operational |
| 144 | ESA | Imaging microwave | ASAR | Advanced synthetic aperture radar (image mode) | Operational |
| 145 | ESA | Imaging microwave | ASAR | Advanced synthetic aperture radar (wave mode) | Operational |
| 146 | ESA | Cloud profile and rain radar | CPR | Cloud radar | Operational |
| 147 | ESA | Radar | RA-2/MWR | Radar altimeter - 2 | Operational |
| 148 | ESA | Radar | RA/MWR | Radar altimeter | Operational |
| 150 | ESA | Scatterometer | SCATTEROMETER | Scatterometer | Operational |
| 161 | ESA | Radiometer | MIPAS | Michelson interferometric passive atmosphere sounder | Operational |
| 162 | ESA | Imaging multi-spectral radiometer (passive microwave) | MWR-2 | Microwave radiometer-2 | Operational |
| 163 | ESA | Atmospheric chemistry instrument | SOPRANO | Sub-millimetre observation of processes in the absorption noteworthy for ozone | Operational |
| 170 | ESA | Atmospheric chemistry instrument | GOME | Global ozone monitoring experiment | Operational |
| 172 | ESA | Spectrometer | GOMOS | Global ozone monitoring by occultation of stars | Operational |
| 174 | ESA | Spectrometer | MERIS | Medium resolution imaging spectrometer | Operational |
| 175 | ESA | Spectrometer | SCIAMACHY | Scanning imaging absorption spectrometer for atmospheric cartography | Operational |
| 176 | ESA | Radiometer | MIRAS | Microwave imaging radiometer using aperture synthesis | Operational |
| 181 | EUMETSAT | Communications | METEOSAT Comms | Communications package for METEOSAT | Operational |
| 182 | EUMETSAT | Communications | MSG Comms | Communications package for MSG | Operational |
| 190 | ESA/ EUMETSAT | Scatterometer | ASCAT | Advanced scatterometer | Operational |
| 200 | EUMETSAT | Radiometer | GERB | Geostationary Earth radiation budget | Operational |
| 202 | ESA/ EUMETSAT | Radiometer | GRAS | GNSS receiver for atmospheric sounding | Operational |
| 203 | EUMETSAT | Radiometer | MHS | Microwave humidity sounder | Operational |
| 205 | EUMETSAT | Radiometer | MVIRI | METEOSAT visible and infrared imager | Operational |
| 207 | EUMETSAT | Radiometer | SEVIRI | Spinning enhanced visible and infrared imager | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|-------------------|---|------------------------|--|-------------|
| 208 | EUMETSAT | Imaging multi-spectral radiometer (vis/IR) | VIRI | VIRI | Operational |
| 220 | ESA/ EUMETSAT | Spectrometer | GOME-2 | Global ozone monitoring experiment - 2 | Operational |
| 221 | CNES/ EUMETSAT | Atmospheric temperature and humidity sounder | IASI | Infrared atmospheric sounding interferometer | Operational |
| 240 | CAST | Communications | DCP | Data-collection platform transponder | Operational |
| 245 | CAST | Radiometer | CCD | High-resolution CCD camera | Operational |
| 246 | INPE | Atmospheric temperature and humidity sounder | HSB | Humidity sounder/Brazil | Operational |
| 248 | INPE | Imaging multi-spectral radiometer (vis/IR) | OBA | Observador Brasileiro da Amazonia | Operational |
| 250 | CAST | Radiometer | WFI | Wide field imager | Operational |
| 255 | CAST | Spectrometer | IRMSS | Infrared multispectral scanner | Operational |
| 260 | ISRO | Precision orbit | BSS & FSS transponders | | Operational |
| 261 | ISRO | Precision orbit | DRT-S&R | | Operational |
| 262 | ISRO | Communications | INSAT Comms | Communications package for INSAT | Operational |
| 268 | ISRO | High resolution optical imager | HR-PAN | High-resolution panchromatic camera | Operational |
| 269 | ISRO | Imaging multi-spectral radiometer (passive microwave) | MSMR | Multifrequency scanning microwave radiometer | Operational |
| 270 | ISRO | Imaging multi-spectral radiometer (vis/IR) | VHRR | Very high resolution radiometer | Operational |
| 271 | ISRO | Imaging multi-spectral radiometer (vis/IR) | WIFS | Wide field sensor | Operational |
| 275 | ISRO | High-resolution optical imager | AWiFS | Advanced wide field sensor | Operational |
| 276 | ISRO | High-resolution optical imager | LISS-I | Linear imaging self scanner - I | Operational |
| 277 | ISRO | High-resolution optical imager | LISS-II | Linear imaging self scanner - II | Operational |
| 278 | ISRO | High-resolution optical imager | LISS-III | Linear imaging self scanner - III | Operational |
| 279 | ISRO | High-resolution optical imager | LISS-IV | Linear imaging self scanner - IV | Operational |
| 284 | ISRO | High-resolution optical imager | PAN | Panchromatic sensor | Operational |
| 285 | ISRO | Imaging multi-spectral radiometer (vis/IR) | MOS | Modular opto-electronic scanner | Operational |
| 286 | ISRO | Ocean colour instrument | OCM | Ocean colour monitor | Operational |

(continued)

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|--------|---|-----------------------|--|-------------|
| 290 | ISRO | Communications | MTSAT Comms | Communications package for MTSAT | Operational |
| 294 | ISRO | Imaging multi-spectral radiometer | IMAGER/MTSAT-1R | Imager/MTSAT | Operational |
| 295 | ISRO | Imaging multi-spectral radiometer | IMAGER/MTSAT | Imager/MTSAT | Operational |
| 296 | ISRO | Imaging multi-spectral radiometer | VISSR | Visible and infrared spin scan radiometer | Operational |
| 300 | NASA | Lidar | GLAS | Geoscience laser altimeter system | Operational |
| 301 | NASA | Precision orbit | LRA | Laser retroreflector array | Operational |
| 302 | NASA | Lidar | MBLA | Multi beam laser altimeter | Operational |
| 309 | NASA | Cloud profile and rain radar | CPR (Cloudsat) | Cloud profiling radar | Operational |
| 312 | NASA | Radar | NSCAT | NASA scatterometer | Operational |
| 313 | NASA | Radar | SeaWinds | ADEOS II - NASA scatterometer | Operational |
| 330 | NASA | Earth radiation budget radiometer | ACRIM | Active cavity radiometer irradiance monitor | Operational |
| 334 | NASA | Total and profile ozone | BUV | Backscatter ultraviolet instrument | Operational |
| 336 | NASA | High-resolution optical imager | ALI | Advanced land imager | Operational |
| 347 | NASA | High-resolution optical imager | ASTER | Advanced spaceborne thermal emission and reflection radiometer | Operational |
| 348 | NASA | Earth radiation budget radiometer | CERES-2 | Cloud and the Earth's radiant energy system | Operational |
| 351 | NASA | Atmospheric temperature and humidity sounder | GPSDR | GPS demonstration receiver | Operational |
| 353 | NASA | Total and profile ozone | HiRDLS | High-resolution dynamics limb sounder | Operational |
| 354 | NASA | Total and profile ozone | HRDI | High-resolution Doppler imager | Operational |
| 356 | NASA | Radiometer | LIS | Lightning imaging sensor | Operational |
| 358 | NASA | Magnetic field, Auroal imagery Scintillation boundary | PEM | Particle environment monitor | Operational |
| 359 | NASA | Ocean colour instrument | SeaWiFS | Sea-viewing wide field-of-view sensor | Operational |
| 360 | NASA | Earth radiation budget radiometer | SUSIM (UARS) | Solar ultraviolet irradiance monitor | Operational |
| 363 | NASA | Total and profile ozone | SBUV/1 | Solar backscatter ultraviolet 1 instrument | Operational |
| 365 | NASA | Imaging multi-spectral radiometer (passive microwave) | TMI | TRMM microwave imager | Operational |
| 366 | NASA | Imaging multi-spectral radiometer (passive microwave) | JMR | JASON-1 microwave radiometer | Operational |
| 369 | NASA | Total and profile ozone | LIMS | Limb infrared monitor of the stratosphere | Operational |
| 370 | NASA | Total and profile ozone | LRIR | Limb radiance inversion radiometer instrument | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|--------|---|-----------------------|---|-------------|
| 371 | NASA | Total and profile ozone | EPIC | Earth polychromatic imaging camera | Operational |
| 372 | NASA | Earth radiation budget radiometer | NISTAR | NIST advanced radiometer | Operational |
| 373 | NASA | Magnetic field, auroal imagery scintillation boundary | Plasma-Mag | | Operational |
| 374 | NASA | Other | XPS | XUV photometer system | Operational |
| 375 | NASA | Imaging multi-spectral radiometer (vis/IR) | VIRS | Visible infrared scanner | Operational |
| 376 | CNES | Multiple direction/ polarisation radiometer | POLDER II | Polarization and directionality of the Earth's reflectance - II | Operational |
| 377 | NASA | Earth radiation budget radiometer | TIM | Total irradiance monitor | Operational |
| 379 | NASA | Imaging multi-spectral radiometer (vis/IR) | WFC | Wide field camera | Operational |
| 382 | NASA | Spectro-radiometer | CLAES | Cryogenic limb array etalon spectrometer | Operational |
| 383 | NASA | Spectro-radiometer | HALOE | Halogen occultation experiment | Operational |
| 384 | NASA | Spectro-radiometer | ISAMS | Improved stratospheric and mesospheric sounder | Operational |
| 385 | NASA | Spectro-radiometer | MISR | Multi-angle imaging spectroradiometer | Operational |
| 386 | NASA | Spectro-radiometer | MLS | Microwave limb sounder | Operational |
| 387 | NASA | Spectro-radiometer | MLS (EOS-Aura) | Microwave limb sounder (EOS-Aura) | Operational |
| 389 | NASA | Spectro-radiometer | MODIS | Moderate-resolution imaging spectroradiometer | Operational |
| 393 | NASA | Gravity | HAIRS | High accuracy inter-satellite ranging system | Operational |
| 394 | NASA | Total and profile ozone | OMI | Ozone measuring instrument | Operational |
| 395 | NASA | Radiometer | Atmospheric corrector | Atmospheric corrector | Operational |
| 396 | NASA | Radiometer | Hyperion | Hyperspectral imager | Operational |
| 399 | NASA | Spectro-radiometer | SAGE I | Stratospheric aerosol and gas experiment - I | Operational |
| 400 | NASA | Spectro-radiometer | SAGE II | Stratospheric aerosol and gas experiment - II | Operational |
| 401 | NASA | Spectro-radiometer | SAGE III | Stratospheric aerosol and gas experiment - III | Operational |
| 402 | NASA | Spectro-radiometer | SAMS | Stratospheric and mesospheric sounder | Operational |
| 403 | NASA | Spectro-radiometer | SAM-II | Stratospheric aerosol measurement - II | Operational |
| 404 | NASA | Spectro-radiometer | IRIS | Infrared interferometer spectrometer | Operational |
| 405 | NASA | Atmospheric temperature and humidity sounder | GIFTS | Geosynchronous imaging Fourier transform spectrometer | Operational |
| 420 | NASA | Spectrometer | AIRS | Atmospheric Infrared sounder | Operational |

(continued)

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|--------|---|-----------------------|---|-------------|
| 426 | NASA | Spectrometer | SOLSTICE | Solar stellar irradiance comparison experiment | Operational |
| 430 | NASA | Spectrometer | TES | Tropospheric emission spectrometer | Operational |
| 431 | NASA | Spectrometer | TOMS | Total ozone mapping spectrometer | Operational |
| 450 | JAXA | Communications | ADEOS Comms | Communications package for ADEOS | Operational |
| 451 | JAXA | Communications | DCS (JAXA) | Data collection system (JAXA) | Operational |
| 453 | NASDA | Communications | GMS Comms | Communications package on GMS | Operational |
| 454 | NASDA | Communications | JERS-1 Comms | Communications package for JERS-1 | Operational |
| 460 | NASDA | Lidar | RIS | Retroreflector in space | Operational |
| 461 | NASDA | Radar | PR | Precipitation radar | Operational |
| 462 | NASDA | Imaging microwave radar | SAR | Synthetic aperture radar | Operational |
| 470 | JAXA | Imaging microwave radar | PALSAR | Phased array type L-band synthetic aperture radar | Operational |
| 479 | JAXA | Imaging multi-spectral radiometer (passive microwave) | AMSR-E | Advanced microwave scanning radiometer - EOS | Operational |
| 480 | JAXA | High resolution optical imager | PRISM (ALOS) | Panchromatic remote-sensing Instrument for stereo mapping | Operational |
| 481 | JAXA | Radiometer | AMSR | Advanced microwave scanning radiometer | Operational |
| 482 | NASDA | High-resolution optical imager | AVNIR | Advanced visible and near infrared radiometer | Operational |
| 483 | JAXA | High-resolution optical imager | AVNIR-2 | Advanced visible and near infra-red radiometer type 2 | Operational |
| 484 | JAXA | Imager | GLI | Global imager | Operational |
| 485 | NASDA | Radiometer | MESSR | Multispectral electronic self scanning radiometer | Operational |
| 486 | NASDA | Radiometer | MSR | Microwave scanning radiometer | Operational |
| 487 | NASDA | Radiometer | OCTS | Ocean color and temperature scanner | Operational |
| 488 | NASDA | Radiometer | OPS | Optical sensor | Operational |
| 489 | NASDA | Radiometer | VISSR (GMS-5) | Visible and infrared spin scan radiometer (GMS-5) | Operational |
| 490 | NASDA | Radiometer | VTIR | Visible and thermal infrared radiometer | Operational |
| 510 | NASDA | Spectrometer | ILAS-I | Improved limb atmospheric spectrometer | Operational |
| 511 | NASDA | Spectrometer | ILAS-II | Improved limb atmospheric spectrometer | Operational |
| 512 | NASDA | Spectrometer | IMG | Inferometric monitor of greenhouse gases | Operational |
| 514 | NASDA | Space environment | SEM | Space environment monitor (NASDA) | Operational |
| 515 | JAXA | Total and profile ozone | SOFIS | Solar occultation Fourier transform spectrometer for inclined orbit satellite | Operational |
| 516 | JAXA | Spectrometer | TANSO-FTS | Thermal and Near infrared Sensor for carbon Observations (TANSO) Fourier Transform Spectrometer (FTS) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|--------|--|---------------------------------|---|-------------|
| 517 | JAXA | Imager | TANSO-CAI | Thermal and Near infrared Sensor for carbon Observations (TANSO) Cloud and Aerosol Imager (CAI) | Operational |
| 540 | NOAA | Communications | DCS (NOAA) | Data-collection system (NOAA) | Operational |
| 541 | NOAA | Communications | GOES Comms | Communications package on GOES | Operational |
| 542 | NOAA | Communications | LANDSAT Comms | Communications package for LANDSAT | Operational |
| 543 | NOAA | Communications | NOAA Comms | Communications package for NOAA | Operational |
| 544 | NOAA | Communications | S&R (GOES) | Search and rescue | Operational |
| 545 | NOAA | Communications | S&R (NOAA) | Search and rescue | Operational |
| 546 | NOAA | Communications | WEFAX | Weather facsimile | Operational |
| 547 | NOAA | Spectrometer | SEM(GOES) | Space environment monitor | Operational |
| 550 | NOAA | Magnetic field | SSM | Special sensor magnetometer | Operational |
| 551 | NOAA | Magnetic field | SSJ/4 | Special sensor precipitating plasma monitor | Operational |
| 552 | NOAA | Space environment | SSIES-2 | Special sensor ionospheric plasma drift/scintillation meter | Operational |
| 553 | NOAA | Space environment | SSB/X-2 | Special sensor gamma ray particle detector | Operational |
| 570 | NOAA | Radiometer | AMSU-A | Advanced microwave sounding unit-A | Operational |
| 574 | NOAA | Radiometer | AMSU-B | Advanced microwave sounding unit-B | Operational |
| 580 | NOAA | Radiometer | ATOVS (HIRS/3 + AMSU + AVHRR/3) | Advanced TIROS operational vertical sounder | Operational |
| 590 | NOAA | Radiometer | AVHRR/2 | Advanced very high-resolution radiometer/2 | Operational |
| 591 | NOAA | Radiometer | AVHRR/3 | Advanced very high-resolution radiometer/3 | Operational |
| 592 | NOAA | Radiometer | AVHRR/4 | Advanced very high-resolution radiometer/4 | Operational |
| 600 | NOAA | Radiometer | ERBE | Earth's radiation budget experiment | Operational |
| 601 | NOAA | Radiometer | ETM+ | Enhanced thematic mapper | Operational |
| 605 | NOAA | Radiometer | HIRS/2 | High-resolution infrared sounder/2 | Operational |
| 606 | NOAA | Radiometer | HIRS/3 | High-resolution infrared sounder/3 | Operational |
| 607 | NOAA | Radiometer | HIRS/4 | High-resolution infrared sounder/4 | Operational |
| 615 | NOAA | Radiometer | IMAGER | Imager | Operational |
| 616 | NOAA | Imaging multi-spectral radiometer (vis/IR) | VIIRS | Visible/infrared imager radiometer suite | Operational |
| 620 | NOAA | Atmospheric temperature and humidity sounder | CrIRS/NP | Cross track infrared sounder/NPOESS | Operational |
| 621 | NOAA | Atmospheric temperature and humidity sounder | ATMS | Advanced technology microwave sounder | Operational |
| 622 | NOAA | Radiometer | MSS | Multispectral scanning system | Operational |
| 623 | NOAA | Radiometer | MSU | Microwave sounding unit | Operational |
| 624 | NOAA | Radiometer | SBUV/2 | Solar backscatter ultraviolet instrument/2 | Operational |

(continued)

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|-----------|--|---------------------------|--|-------------|
| 625 | NOAA | Radiometer | SBUV/3 | Solar backscatter ultraviolet instrument/3 | Operational |
| 626 | NOAA | Radiometer | SOUNDER | SOUNDER | Operational |
| 627 | NOAA | Radiometer | SSU | Stratospheric sounding unit | Operational |
| 628 | NOAA | Radiometer | TM | Thematic mapper | Operational |
| 629 | NOAA | Radiometer | TOVS (HIRS/2 + MSU + SSU) | TIROS operational vertical sounder | Operational |
| 630 | NOAA | Radiometer | VAS | VISSR atmospheric sounder | Operational |
| 631 | NOAA | Radiometer | SSZ | | Operational |
| 645 | NOAA | Spectrometer | SEM | Space environment monitor | Operational |
| 650 | NRSCC | Radiometer | MVIRSR (10 channel) | Multispectral visible and infrared scan radiometer | Operational |
| 651 | NRSCC | Radiometer | MVIRSR (3 channel) | Multispectral visible and infrared scan radiometer | Operational |
| 652 | NRSCC | Radiometer | MVIRSR (5 channel) | Multispectral visible and infrared scan radiometer | Operational |
| 670 | NSAU | Radar | RLSBO | Side looking microwave radar | Operational |
| 680 | NSAU | High-resolution optical imager | MSU-EU | Multi-spectral radiometer with high resolution | Operational |
| 681 | NSAU | Imaging multi-spectral radiometer (vis/IR) | MSU-UM | Visible multi-spectral radiometer | Operational |
| 682 | NSAU | Radiometer | RM-08 | Imaging microwave radiometer | Operational |
| 683 | NSAU | High-resolution optical imager | SU-UMS | Stereo radiometer with high resolution | Operational |
| 684 | NSAU | High-resolution optical imager | SU-VR | Visible radiometer with high resolution | Operational |
| 685 | NSAU | Radiometer | TRASSER | | Operational |
| 700 | ROSCOSMOS | Communications | KONDOR-2 | Data collection and transmission system | Operational |
| 701 | ROSCOSMOS | Communications | BRK | | Operational |
| 710 | ROSCOSMOS | Lidar | ALISSA | Backscatter lidar | Operational |
| 712 | ROSCOSMOS | Lidar | Balkan-2 lidar | | Operational |
| 715 | ROSCOSMOS | Lidar | MK-4 | | Operational |
| 716 | ROSCOSMOS | Lidar | MK-4M | | Operational |
| 730 | ROSCOSMOS | Radar | Greben | Radar altimeter | Operational |
| 731 | ROSCOSMOS | Radar | SAR-10 | Synthetic aperture radar | Operational |
| 732 | ROSCOSMOS | Radar | SAR-3 | Synthetic aperture radar | Operational |
| 733 | ROSCOSMOS | Radar | SAR-70 | Synthetic aperture radar | Operational |
| 740 | ROSCOSMOS | Radar | SLR-3 | Side looking radar | Operational |
| 745 | ROSCOSMOS | Radar | Travers SAR | | Operational |
| 750 | ROSCOSMOS | Radiometer | 174-K | Temperature and humidity profiler | Operational |
| 751 | ROSCOSMOS | Radiometer | BTVK | Scanning television radiometer | Operational |
| 752 | ROSCOSMOS | Radiometer | Chaika | Scanning infrared radiometer | Operational |
| 753 | ROSCOSMOS | Radiometer | DELTA-2 | Multispectral microwave scanner | Operational |
| 755 | ROSCOSMOS | Radiometer | IKAR-D | Multispectral microwave scanner | Operational |
| 756 | ROSCOSMOS | Radiometer | IKAR-N | Multispectral microwave scanner | Operational |
| 757 | ROSCOSMOS | Radiometer | IKAR-P | Multispectral microwave scanner | Operational |
| 760 | ROSCOSMOS | Radiometer | ISP | | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|-----------|---|-----------------------|--|-------------|
| 761 | ROSCOSMOS | Radiometer | KFA-1000 | Photographic camera | Operational |
| 762 | ROSCOSMOS | Radiometer | KFA-200 | Photographic camera | Operational |
| 763 | ROSCOSMOS | Radiometer | KFA-3000 | Photographic camera | Operational |
| 770 | ROSCOSMOS | Radiometer | Klimat | Scanning infrared radiometer | Operational |
| 771 | ROSCOSMOS | Radiometer | Klimat-2 | Scanning infrared radiometer | Operational |
| 775 | ROSCOSMOS | Radiometer | MIRAS | | Operational |
| 776 | ROSCOSMOS | Radiometer | MIVZA | | Operational |
| 777 | ROSCOSMOS | Radiometer | MIVZA-M | Microwave scanning radiometer | Operational |
| 780 | ROSCOSMOS | Radiometer | MR-2000 | | Operational |
| 781 | ROSCOSMOS | Radiometer | MR-2000M | | Operational |
| 785 | ROSCOSMOS | Radiometer | MR-900 | Scanning telephotometer | Operational |
| 786 | ROSCOSMOS | Radiometer | MR-900B | Scanning visual band telephotometer | Operational |
| 790 | ROSCOSMOS | Radiometer | MSU-E | Multispectral high-resolution electronic scanner | Operational |
| 791 | ROSCOSMOS | Radiometer | MSU-E1 | Multispectral high-resolution electronic scanner | Operational |
| 792 | ROSCOSMOS | Radiometer | MSU-E2 | Multispectral high-resolution electronic scanner | Operational |
| 793 | ROSCOSMOS | Radiometer | MSU-M | | Operational |
| 794 | ROSCOSMOS | Radiometer | MSU-S | Multispectral medium-resolution scanner | Operational |
| 795 | ROSCOSMOS | Radiometer | MSU-SK | Multispectral medium-resolution conical scanner | Operational |
| 796 | ROSCOSMOS | Radiometer | MSU-V | Multispectral high-resolution conical scanner | Operational |
| 810 | ROSCOSMOS | Radiometer | MTZA | Scanning microwave radiometer | Operational |
| 815 | ROSCOSMOS | Imaging multi-spectral radiometer (passive microwave) | MZOAS | Scanning microwave radiometer | Operational |
| 820 | ROSCOSMOS | Imaging multi-spectral radiometer (passive microwave) | R-225 | Single channel microwave radiometer | Operational |
| 821 | ROSCOSMOS | Radiometer | R-400 | | Operational |
| 822 | ROSCOSMOS | Radiometer | R-600 | Single channel microwave radiometer | Operational |
| 830 | ROSCOSMOS | Radiometer | RMS | Radiation measurement system | Operational |
| 835 | ROSCOSMOS | Radiometer | TV camera | | Operational |
| 836 | ROSCOSMOS | Radiometer | SILVA | | Operational |
| 840 | ROSCOSMOS | Spectro-radiometer | SROSMO | Spectroradiometer for ocean monitoring | Operational |
| 850 | ROSCOSMOS | Spectrometer | BUFS-2 | Backscatter spectrometer/2 | Operational |
| 851 | ROSCOSMOS | Spectrometer | BUFS-4 | Backscatter spectrometer/4 | Operational |
| 855 | ROSCOSMOS | Spectrometer | ISTOK-1 | Infrared spectrometer | Operational |
| 856 | ROSCOSMOS | Spectrometer | SFM-2 | Spectrometer to measure direct solar radiation | Operational |
| 857 | ROSCOSMOS | Spectrometer | DOPI | | Operational |
| 858 | ROSCOSMOS | Spectrometer | KGI-4 | | Operational |

(continued)

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|------|-----------|--|----------------------------|--|-------------|
| 859 | ROSCOSMOS | Spectrometer | Ozon-M | | Operational |
| 860 | ROSCOSMOS | Spectrometer | RMK-2 | | Operational |
| 900 | NOAA | Radiometer | MAXIE | Magnetospheric atmospheric X-ray imaging experiment | Operational |
| 901 | NOAA | Radiometer | OLS | Operational linescan system | Operational |
| 905 | NOAA | Radiometer | SSM/I | Mission sensor microwave imager | Operational |
| 906 | NOAA | Radiometer | SSM/T-1 | Mission sensor microwave temperature sounder | Operational |
| 907 | NOAA | Radiometer | SSM/T-2 | Mission sensor microwave water vapour sounder | Operational |
| 908 | NOAA | Radiometer | SSMIS | Special sensor microwave imager sounder | Operational |
| 910 | NOAA | Radiometer | SXI | Solar X-ray imager | Operational |
| 930 | NOAA | Spectrometer | EHIC | Energetic heavy ion composition experiment | Operational |
| 931 | NOAA | Spectrometer | X-ray astronomy payload | | Operational |
| 932 | NRSCC | Imaging multi- spectral radiometer (vis/IR) | IVISSR (FY-2) | Improved multispectral visible and Infrared scan radiometer (5 channels) | Operational |
| 933 | NRSCC | Atmospheric temperature and humidity sounder | IRAS | Infrared atmospheric sounder | Operational |
| 934 | NRSCC | Atmospheric temperature and humidity sounder | MWAS | Microwave atmospheric sounder | Operational |
| 935 | NRSCC | Atmospheric temperature and humidity sounder | IMWAS | Improved Microwave atmospheric sounder | Operational |
| 936 | NRSCC | Atmospheric temperature and humidity sounder | MWHS | Microwave humidity sounder | Operational |
| 937 | NRSCC | Imaging multi- spectral radiometer (vis/IR) | MVIRS | Moderate resolution visible and infrared imaging spectroradiometer | Operational |
| 938 | NRSCC | Imaging multi- spectral radiometer (passive microwave) | MWRI | Microwave radiation imager | Operational |
| 940 | ROSCOSMOS | Atmospheric temperature and humidity sounder | MTVZA-OK | Scanning microwave radiometer | Operational |
| 941 | CNES | Atmospheric temperature and humidity sounder | SAPHIR | | Operational |
| 944 | NOAA | Radar altimeter | ALT | Altimeter | Operational |
| 945 | NOAA | Earth radiation budget radiometer | TSIS | Total solar irradiance sensor | Operational |
| 946 | NOAA | Imaging multi- spectral radiometer (passive microwave) | CMIS | Conical-scanning microwave imager/sounder | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-8 - continued)

| Code | Agency | Type | Instrument short name | Instrument long name | Status |
|-----------|---------------|--|-----------------------|--|-------------|
| 947 | NOAA | Total and profile ozone | OMPS | Ozone mapping and profiler suite | Operational |
| 948 | NOAA | Space environment atmospheric temperature and humidity sounder | GPSOS | Global positioning system occultation sensor | Operational |
| 949 | NOAA | Magnetic field, auroal imagery scintillation boundary | SESS | Space environmental sensor suite | Operational |
| 950 | NRSCC | Imaging multi-spectral radiometer (vis/IR) | VIRR | Multispectral visible and infrared scan radiometer (10 channels) | Operational |
| 951 | NRSCC | Total and profile ozone | TOM | Total ozone mapper | Operational |
| 952 | NRSCC | Total and profile ozone | OP | Ozone profiler | Operational |
| 953-999 | | Reserved | | | Operational |
| 1000-2046 | | Reserved for long-term future use | | | Operational |
| 2047 | Missing value | Operational | | | |

COMMON CODE TABLE C-11: *Originating/generating centres*

Common Code table { BUFR 0 01 035
 CREX Edition 2, 00000 in Group P00000ppp in Section 1
 GRIB Edition 2, Octets 6-7 in Section 1
 BUFR Edition 4, Octets 5-6 in Section 1

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|--|-------------|
| 00000 | 0 | WMO Secretariat | Operational |
| | | 00001-00009: WMCs | Operational |
| 00001 | 1 | Melbourne | Operational |
| 00002 | 2 | Melbourne | Operational |
| 00003 | 3 |) | Operational |
| 00004 | 4 | Moscow | Operational |
| 00005 | 5 | Moscow | Operational |
| 00006 | 6 |) | Operational |
| 00007 | 7 | US National Weather Service, National Centres for Environmental Prediction (NCEP) | Operational |
| 00008 | 8 | US National Weather Service Telecommunications Gateway (NWSTG) | Operational |
| 00009 | 9 | US National Weather Service - Other | Operational |
| | | 00010-00025: Centres in Region I | Operational |
| 00010 | 10 | Cairo (RSMC) | Operational |
| 00011 | 11 |) | Operational |
| 00012 | 12 | Dakar (RSMC) | Operational |
| 00013 | 13 |) | Operational |
| 00014 | 14 | Nairobi (RSMC) | Operational |
| 00015 | 15 |) | Operational |
| 00016 | 16 | Casablanca (RSMC) | Operational |
| 00017 | 17 | Tunis (RSMC) | Operational |
| 00018 | 18 | Tunis-Casablanca (RSMC) | Operational |
| 00019 | 19 |) | Operational |
| 00020 | 20 | Las Palmas | Operational |
| 00021 | 21 | Algiers (RSMC) | Operational |
| 00022 | 22 | ACMAD | Operational |
| 00023 | 23 | Mozambique (NMC) | Operational |
| 00024 | 24 | Pretoria (RSMC) | Operational |
| 00025 | 25 | La Réunion (RSMC) | Operational |
| | | 00026-00040: Centres in Region II | Operational |
| 00026 | 26 | Khabarovsk (RSMC) | Operational |
| 00027 | 27 |) | Operational |
| 00028 | 28 | New Delhi (RSMC) | Operational |
| 00029 | 29 |) | Operational |
| 00030 | 30 | Novosibirsk (RSMC) | Operational |

(continued)

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|---|-------------|
| 00031 | 31 |) | Operational |
| 00032 | 32 | Tashkent (RSMC) | Operational |
| 00033 | 33 | Jeddah (RSMC) | Operational |
| 00034 | 34 | Tokyo (RSMC), Japan Meteorological Agency | Operational |
| 00035 | 35 |) | Operational |
| 00036 | 36 | Bangkok | Operational |
| 00037 | 37 | Ulaanbaatar | Operational |
| 00038 | 38 | Beijing (RSMC) | Operational |
| 00039 | 39 |) | Operational |
| 00040 | 40 | Seoul | Operational |
| 00041-00050: Centres in Region III | | | Operational |
| 00041 | 41 | Buenos Aires (RSMC) | Operational |
| 00042 | 42 |) | Operational |
| 00043 | 43 | Brasilia (RSMC) | Operational |
| 00044 | 44 |) | Operational |
| 00045 | 45 | Santiago | Operational |
| 00046 | 46 | Brazilian Space Agency - INPE | Operational |
| 00047 | 47 | Colombia (NMC) | Operational |
| 00048 | 48 | Ecuador (NMC) | Operational |
| 00049 | 49 | Peru (NMC) | Operational |
| 00050 | 50 | Venezuela (NMC) | Operational |
| 00051-00063: Centres in Region IV | | | Operational |
| 00051 | 51 | Miami (RSMC) | Operational |
| 00052 | 52 | Miami RSMC, National Hurricane Centre | Operational |
| 00053 | 53 | Montreal (RSMC) | Operational |
| 00054 | 54 |) | Operational |
| 00055 | 55 | San Francisco | Operational |
| 00056 | 56 | ARINC Centre | Operational |
| 00057 | 57 | U.S. Air Force - Air Force Global Weather Central | Operational |
| 00058 | 58 | Fleet Numerical Meteorology and Oceanography Center, Monterey, CA, USA | Operational |
| 00059 | 59 | The NOAA Forecast Systems Laboratory, Boulder, CO, USA | Operational |
| 00060 | 60 | United States National Center for Atmospheric Research (NCAR) | Operational |
| 00061 | 61 | Service ARGOS - Landover | Operational |
| 00062 | 62 | US Naval Oceanographic Office | Operational |
| 00063 | 63 | International Research Institute for Climate and Society (IRI) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|--|-------------|
| | | 00064-00073: Centres in Region V | Operational |
| 00064 | 64 | Honolulu (RSMC) | Operational |
| 00065 | 65 | Darwin (RSMC) | Operational |
| 00066 | 66 |) | Operational |
| 00067 | 67 | Melbourne (RSMC) | Operational |
| 00068 | 68 | Reserved | Operational |
| 00069 | 69 | Wellington (RSMC) | Operational |
| 00070 | 70 |) | Operational |
| 00071 | 71 | Nadi (RSMC) | Operational |
| 00072 | 72 | Singapore | Operational |
| 00073 | 73 | Malaysia (NMC) | Operational |
| | | 00074-00099: Centres in Region VI | Operational |
| 00074 | 74 | UK Meteorological Office - Exeter (RSMC) | Operational |
| 00075 | 75 |) | Operational |
| 00076 | 76 | Moscow (RSMC) | Operational |
| 00077 | 77 | Reserved | Operational |
| 00078 | 78 | Offenbach (RSMC) | Operational |
| 00079 | 79 |) | Operational |
| 00080 | 80 | Rome (RSMC) | Operational |
| 00081 | 81 |) | Operational |
| 00082 | 82 | Norrköping | Operational |
| 00083 | 83 |) | Operational |
| 00084 | 84 | Toulouse (RSMC) | Operational |
| 00085 | 85 | Toulouse (RSMC) | Operational |
| 00086 | 86 | Helsinki | Operational |
| 00087 | 87 | Belgrade | Operational |
| 00088 | 88 | Oslo | Operational |
| 00089 | 89 | Prague | Operational |
| 00090 | 90 | Episkopi | Operational |
| 00091 | 91 | Ankara | Operational |
| 00092 | 92 | Frankfurt/Main | Operational |
| 00093 | 93 | London (WAFC) | Operational |
| 00094 | 94 | Copenhagen | Operational |
| 00095 | 95 | Rota | Operational |
| 00096 | 96 | Athens | Operational |
| 00097 | 97 | European Space Agency (ESA) | Operational |
| 00098 | 98 | European Centre for Medium Range Weather Forecasts (ECMWF) (RSMC) | Operational |
| 00099 | 99 | De Bilt | Operational |

(continued)

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|---|-------------|
| | | Additional Centres | Operational |
| 00100 | 100 | Brazzaville | Operational |
| 00101 | 101 | Abidjan | Operational |
| 00102 | 102 | Libyan Arab Jamahiriya (NMC) | Operational |
| 00103 | 103 | Madagascar (NMC) | Operational |
| 00104 | 104 | Mauritius (NMC) | Operational |
| 00105 | 105 | Niger (NMC) | Operational |
| 00106 | 106 | Seychelles (NMC) | Operational |
| 00107 | 107 | Uganda (NMC) | Operational |
| 00108 | 108 | United Republic of Tanzania (NMC) | Operational |
| 00109 | 109 | Zimbabwe (NMC) | Operational |
| 00110 | 110 | Hong-Kong, China | Operational |
| 00111 | 111 | Afghanistan (NMC) | Operational |
| 00112 | 112 | Bahrain (NMC) | Operational |
| 00113 | 113 | Bangladesh (NMC) | Operational |
| 00114 | 114 | Bhutan (NMC) | Operational |
| 00115 | 115 | Cambodia (NMC) | Operational |
| 00116 | 116 | Democratic People's Republic of Korea (NMC) | Operational |
| 00117 | 117 | Islamic Republic of Iran (NMC) | Operational |
| 00118 | 118 | Iraq (NMC) | Operational |
| 00119 | 119 | Kazakhstan (NMC) | Operational |
| 00120 | 120 | Kuwait (NMC) | Operational |
| 00121 | 121 | Kyrgyzstan (NMC) | Operational |
| 00122 | 122 | Lao People's Democratic Republic (NMC) | Operational |
| 00123 | 123 | Macao, China | Operational |
| 00124 | 124 | Maldives (NMC) | Operational |
| 00125 | 125 | Myanmar (NMC) | Operational |
| 00126 | 126 | Nepal (NMC) | Operational |
| 00127 | 127 | Oman (NMC) | Operational |
| 00128 | 128 | Pakistan (NMC) | Operational |
| 00129 | 129 | Qatar (NMC) | Operational |
| 00130 | 130 | Yemen (NMC) | Operational |
| 00131 | 131 | Sri Lanka (NMC) | Operational |
| 00132 | 132 | Tajikistan (NMC) | Operational |
| 00133 | 133 | Turkmenistan (NMC) | Operational |
| 00134 | 134 | United Arab Emirates (NMC) | Operational |
| 00135 | 135 | Uzbekistan (NMC) | Operational |
| 00136 | 136 | Viet Nam (NMC) | Operational |
| 00137-00139 | 137-139 | Reserved for other centres | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|---|-------------|
| 00140 | 140 | Bolivia (Plurinational State of) (NMC) | Operational |
| 00141 | 141 | Guyana (NMC) | Operational |
| 00142 | 142 | Paraguay (NMC) | Operational |
| 00143 | 143 | Suriname (NMC) | Operational |
| 00144 | 144 | Uruguay (NMC) | Operational |
| 00145 | 145 | French Guiana | Operational |
| 00146 | 146 | Brazilian Navy Hydrographic Centre | Operational |
| 00147 | 147 | National Commission on Space Activities (CONAE) - Argentina | Operational |
| 00148-00149 | 148-149 | Reserved for other centres | Operational |
| 00150 | 150 | Antigua and Barbuda (NMC) | Operational |
| 00151 | 151 | Bahamas (NMC) | Operational |
| 00152 | 152 | Barbados (NMC) | Operational |
| 00153 | 153 | Belize (NMC) | Operational |
| 00154 | 154 | British Caribbean Territories Centre | Operational |
| 00155 | 155 | San José | Operational |
| 00156 | 156 | Cuba (NMC) | Operational |
| 00157 | 157 | Dominica (NMC) | Operational |
| 00158 | 158 | Dominican Republic (NMC) | Operational |
| 00159 | 159 | El Salvador (NMC) | Operational |
| 00160 | 160 | US NOAA/NESDIS | Operational |
| 00161 | 161 | US NOAA Office of Oceanic and Atmospheric Research | Operational |
| 00162 | 162 | Guatemala (NMC) | Operational |
| 00163 | 163 | Haiti (NMC) | Operational |
| 00164 | 164 | Honduras (NMC) | Operational |
| 00165 | 165 | Jamaica (NMC) | Operational |
| 00166 | 166 | Mexico | Operational |
| 00167 | 167 | Netherlands Antilles and Aruba (NMC) | Operational |
| 00168 | 168 | Nicaragua (NMC) | Operational |
| 00169 | 169 | Panama (NMC) | Operational |
| 00170 | 170 | Saint Lucia (NMC) | Operational |
| 00171 | 171 | Trinidad and Tobago (NMC) | Operational |
| 00172 | 172 | French Departments in RA IV | Operational |
| 00173 | 173 | US National Aeronautics and Space Administration (NASA) | Operational |
| 00174 | 174 | Integrated Science Data Management/Marine Environmental Data Service (ISDM/MEDS - Canada) | Operational |
| 00175 | 175 | Reserved for other centres | Operational |
| 00176 | 176 | Cooperative Institute for Meteorological Satellite Studies (CIMSS) - United States | Operational |

(continued)

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|--|-------------|
| 00177-00189 | 177-189 | Reserved for other centres | Operational |
| 00190 | 190 | Cook Islands (NMC) | Operational |
| 00191 | 191 | French Polynesia (NMC) | Operational |
| 00192 | 192 | Tonga (NMC) | Operational |
| 00193 | 193 | Vanuatu (NMC) | Operational |
| 00194 | 194 | Brunei Darussalam (NMC) | Operational |
| 00195 | 195 | Indonesia (NMC) | Operational |
| 00196 | 196 | Kiribati (NMC) | Operational |
| 00197 | 197 | Federated States of Micronesia (NMC) | Operational |
| 00198 | 198 | New Caledonia (NMC) | Operational |
| 00199 | 199 | Niue | Operational |
| 00200 | 200 | Papua New Guinea (NMC) | Operational |
| 00201 | 201 | Philippines (NMC) | Operational |
| 00202 | 202 | Samoa (NMC) | Operational |
| 00203 | 203 | Solomon Islands (NMC) | Operational |
| 00204 | 204 | National Institute of Water and Atmospheric Research (NIWA – New Zealand) | Operational |
| 00205-00209 | 205-209 | Reserved for other centres | Operational |
| 00210 | 210 | Frascati (ESA/ESRIN) | Operational |
| 00211 | 211 | Lannion | Operational |
| 00212 | 212 | Lisboa | Operational |
| 00213 | 213 | Reykjavik | Operational |
| 00214 | 214 | Madrid | Operational |
| 00215 | 215 | Zurich | Operational |
| 00216 | 216 | Service ARGOS Toulouse | Operational |
| 00217 | 217 | Bratislava | Operational |
| 00218 | 218 | Budapest | Operational |
| 00219 | 219 | Ljubljana | Operational |
| 00220 | 220 | Warsaw | Operational |
| 00221 | 221 | Zagreb | Operational |
| 00222 | 222 | Albania (NMC) | Operational |
| 00223 | 223 | Armenia (NMC) | Operational |
| 00224 | 224 | Austria (NMC) | Operational |
| 00225 | 225 | Azerbaijan (NMC) | Operational |
| 00226 | 226 | Belarus (NMC) | Operational |
| 00227 | 227 | Belgium (NMC) | Operational |
| 00228 | 228 | Bosnia and Herzegovina (NMC) | Operational |
| 00229 | 229 | Bulgaria (NMC) | Operational |
| 00230 | 230 | Cyprus (NMC) | Operational |
| 00231 | 231 | Estonia (NMC) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|---|-------------|
| 00232 | 232 | Georgia (NMC) | Operational |
| 00233 | 233 | Dublin | Operational |
| 00234 | 234 | Israel (NMC) | Operational |
| 00235 | 235 | Jordan (NMC) | Operational |
| 00236 | 236 | Latvia (NMC) | Operational |
| 00237 | 237 | Lebanon (NMC) | Operational |
| 00238 | 238 | Lithuania (NMC) | Operational |
| 00239 | 239 | Luxembourg | Operational |
| 00240 | 240 | Malta (NMC) | Operational |
| 00241 | 241 | Monaco | Operational |
| 00242 | 242 | Romania (NMC) | Operational |
| 00243 | 243 | Syrian Arab Republic (NMC) | Operational |
| 00244 | 244 | The former Yugoslav Republic of Macedonia (NMC) | Operational |
| 00245 | 245 | Ukraine (NMC) | Operational |
| 00246 | 246 | Republic of Moldova (NMC) | Operational |
| 00247 | 247 | Operational Programme for the Exchange of weather RADar information (OPERA) - EUMETNET | Operational |
| 00248-00249 | 248-249 | Reserved for other centres | Operational |
| 00250 | 250 | COnsortium for Small scale MOdelling (COSMO) | Operational |
| 00251-00253 | 251-253 | Reserved for other centres | Operational |
| 00254 | 254 | EUMETSAT Operation Centre | Operational |
| 00255 | 255 | Not to be used | Operational |
| 00256 | 256 | Angola (NMC) | Operational |
| 00257 | 257 | Benin (NMC) | Operational |
| 00258 | 258 | Botswana (NMC) | Operational |
| 00259 | 259 | Burkina Faso (NMC) | Operational |
| 00260 | 260 | Burundi (NMC) | Operational |
| 00261 | 261 | Cameroon (NMC) | Operational |
| 00262 | 262 | Cape Verde (NMC) | Operational |
| 00263 | 263 | Central African Republic (NMC) | Operational |
| 00264 | 264 | Chad (NMC) | Operational |
| 00265 | 265 | Comoros (NMC) | Operational |
| 00266 | 266 | Democratic Republic of the Congo (NMC) | Operational |
| 00267 | 267 | Djibouti (NMC) | Operational |
| 00268 | 268 | Eritrea (NMC) | Operational |
| 00269 | 269 | Ethiopia (NMC) | Operational |
| 00270 | 270 | Gabon (NMC) | Operational |
| 00271 | 271 | Gambia (NMC) | Operational |
| 00272 | 272 | Ghana (NMC) | Operational |
| 00273 | 273 | Guinea (NMC) | Operational |

(continued)

(Common Code table C-11 - continued)

| CREX Edition 2 B 01 035 (5 characters) and Group 3 in Section 1 | GRIB Edition 2 Octets 6-7 in Section 1 BUFR Edition 4 0 01 035 (16 bits) and Octets 5-6 in Section 1 | | Status |
|---|--|-----------------------------|-------------|
| 00274 | 274 | Guinea-Bissau (NMC) | Operational |
| 00275 | 275 | Lesotho (NMC) | Operational |
| 00276 | 276 | Liberia (NMC) | Operational |
| 00277 | 277 | Malawi (NMC) | Operational |
| 00278 | 278 | Mali (NMC) | Operational |
| 00279 | 279 | Mauritania (NMC) | Operational |
| 00280 | 280 | Namibia (NMC) | Operational |
| 00281 | 281 | Nigeria (NMC) | Operational |
| 00282 | 282 | Rwanda (NMC) | Operational |
| 00283 | 283 | Sao Tome and Principe (NMC) | Operational |
| 00284 | 284 | Sierra Leone (NMC) | Operational |
| 00285 | 285 | Somalia (NMC) | Operational |
| 00286 | 286 | Sudan (NMC) | Operational |
| 00287 | 287 | Swaziland (NMC) | Operational |
| 00288 | 288 | Togo (NMC) | Operational |
| 00289 | 289 | Zambia (NMC) | Operational |
| 00290-65534 | 290-65534 | Reserved for other centres | Operational |
| 65535 | 65535 | Missing value | Operational |
| 65536-99999 | Not applicable | Not used | Operational |

Notes:

- (1) The closed bracket sign ")" indicates that the corresponding code figure is reserved for the previously named centre.
- (2) With GRIB or BUFR, to indicate whether the originating/generating centre is a sub-centre or not, the following procedure should be applied:
In GRIB edition 2, use octets 8-9 of section 1, or in BUFR Edition 4, use octets 7-8 of section 1, with the following meaning:
Code figure
0 Not a sub-centre, the originating/generating centre is the centre defined by octets 6-7 in section 1 of GRIB edition 2, or by octets 5-6 in section 1 of BUFR edition 4.
1 to 254 Identifier of the sub-centre which is the originating/generating centre. The identifier of the sub-centre is allocated by the associated centre, which is defined by octets 6-7 in section 1 of GRIB edition 2 or by octets 5-6 in section 1 of BUFR edition 4. The sub-centre identifiers should be supplied to the WMO Secretariat by the associated centre(s) for publication.
- (3) For the definitions of sub-centres provided to the WMO Secretariat, see Common Code table C-12.

COMMON CODE TABLE C-12: *Sub-centres of originating centres defined by entries in Common tables C-1 or C-11*

| ORIGINATING CENTRES C-1, C-11 or C-12 | | SUB-CENTRES | | |
|--|---|--|---------------------------------------|-------------|
| | | BUFR 0 01 034 BUFR Edition 3, Octet 5 in Section 1 BUFR Edition 4, Octets 7-8 in Section 1 GRIB Edition 1, Octet 26 in Section 1 GRIB Edition 2, Octets 8-9 in Section 1 CREX Edition 2, ppp in Group Pooooopp in Section 1 | | |
| Code figure | Name | Code figure | Name | Status |
| | | 0 | No sub-centre | Operational |
| Region II | | | | Operational |
| 34 | Tokyo (RSMC), Japan Meteorological Agency | 207 | Syowa | Operational |
| | | 240 | Kiyose | Operational |
| 39 | Beijing (RSMC) | 225 | Beijing | Operational |
| | | 226 | Guangzhou | Operational |
| | | 228 | Urumuqi | Operational |
| 40 | Seoul | 243 | Seoul | Operational |
| | | 245 | Jincheon | Operational |
| 110 | Hong-Kong, China | 229 | Hong-Kong | Operational |
| Region III | | | | Operational |
| 46 | Brazilian Space Agency - INPE | 10 | Cachoeira Paulista (INPE) | Operational |
| | | 11 | Cuiaba (INPE) | Operational |
| | | 12 | Brasilia (INMET) | Operational |
| | | 13 | Fortaleza (FUNCEME) | Operational |
| | | 14 | Natal (Navy Hygrog. Centre) | Operational |
| | | 15 | Manaus (SIVAM) | Operational |
| | | 16 | Natal (INPE) | Operational |
| | | 17 | Boa Vista | Operational |
| 147 | National Commission on Space Activities (CONAE) - Argentina | 10 | Córdoba | Operational |
| | | 15 | Ushuaia | Operational |
| | | 20 | Marambio | Operational |
| | | 30 | Santiago de Chile | Operational |
| | | 40 | Punta Arenas | Operational |
| | | 50 | Base Presidente Frei | Operational |
| | | 60 | Cotopaxi | Operational |
| Region IV | | | | Operational |
| 7 | US National Weather Service, NCEP | 1 | NCEP Reanalysis Project | Operational |
| | | 2 | NCEP Ensemble Products | Operational |
| | | 3 | NCEP Central Operations | Operational |
| | | 4 | Environmental Modeling Center | Operational |
| | | 5 | Hydrometeorological Prediction Center | Operational |
| | | 6 | Marine Prediction Center | Operational |
| | | 7 | Climate Prediction Center | Operational |

(continued)

(Common Code table C-12 - continued)

ORIGINATING CENTRES

C-1, C-11 or C-12

SUB-CENTRES

BUFR 0 01 034
 BUFR Edition 3, Octet 5 in Section 1
 BUFR Edition 4, Octets 7-8 in Section 1
 GRIB Edition 1, Octet 26 in Section 1
 GRIB Edition 2, Octets 8-9 in Section 1
 CREX Edition 2, ppp in Group Pooooopp in Section 1

| Code figure | Name | Code figure | Name | Status |
|------------------------------|---|-------------|--|-------------|
| Region IV (continued) | | 8 | Aviation Weather Center | Operational |
| | | 9 | Storm Prediction Center | Operational |
| | | 10 | National Hurricane Center | Operational |
| | | 11 | NWS Techniques Development Laboratory | Operational |
| | | 12 | NESDIS Office of Research and Applications | Operational |
| | | 13 | Federal Aviation Administration | Operational |
| | | 14 | NWS Meteorological Development Laboratory | Operational |
| | | 15 | North American Regional Reanalysis Project | Operational |
| | | 16 | Space Weather Prediction Center | Operational |
| 160 | U.S. NOAA/NESDIS | 10 | Tromso (Norway) | Operational |
| | | 11 | McMurdo (Antarctica) | Operational |
| 161 | U.S. NOAA Office of Oceanic and Atmospheric Research (NOAA/OAR) | 1 | Great Lakes Environmental Research Laboratory | Operational |
| | | 2 | Earth System Research Laboratory | Operational |
| 173 | US National Aeronautics and Space Administration (NASA) | 1 | Ames Research Center | Operational |
| | | 2 | Dryden Flight Research Center | Operational |
| | | 3 | Glenn Research Center | Operational |
| | | 4 | Goddard Space Flight Center | Operational |
| | | 5 | Jet Propulsion Laboratory | Operational |
| | | 6 | Johnson Space Center | Operational |
| | | 7 | Kennedy Space Center | Operational |
| | | 8 | Langley Research Center | Operational |
| | | 9 | Marshall Space Flight Center | Operational |
| | | 10 | Stennis Space Center | Operational |
| | | 11 | Goddard Institute for Space Studies | Operational |
| | | 12 | Independent Verification and Validation Facility | Operational |
| | | 13 | NASA Shared Service Center | Operational |
| | | 14 | Wallops Flight Facility | Operational |
| 176 | U.S. Cooperative Institute for Meteorological Satellite Studies (CIMSS) | 10 | Tromso (Norway) | Operational |
| | | 11 | McMurdo (Antarctica) | Operational |
| | | 12 | Sodankyla (Finland) | Operational |
| | | 13 | Fairbanks (United States) | Operational |
| | | 14 | Barrow (United States) | Operational |
| | | 15 | Rothera (Antarctica) | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-12 - continued)

ORIGINATING CENTRES

C-1, C-11 or C-12

SUB-CENTRES

BUFR 0 01 034
 BUFR Edition 3, Octet 5 in Section 1
 BUFR Edition 4, Octets 7-8 in Section 1
 GRIB Edition 1, Octet 26 in Section 1
 GRIB Edition 2, Octets 8-9 in Section 1
 CREX Edition 2, ppp in Group Poooooppp
 in Section 1

| Code figure | Name | Code figure | Name | Status |
|------------------|--|-------------|--|-------------|
| Region V | | | | Operational |
| 2 | Melbourne | 201 | Casey | Operational |
| | | 203 | Davis | Operational |
| | | 211 | Melbourne Crib Point 1 | Operational |
| | | 214 | Darwin | Operational |
| | | 217 | Perth | Operational |
| | | 219 | Townsville | Operational |
| | | 232 | Fiji | Operational |
| | | 235 | Noumea | Operational |
| | | 237 | Papeete | Operational |
| | | 250 | Vladivostock | Operational |
| | | 251 | Guam | Operational |
| | | 252 | Honolulu | Operational |
| 69 | Wellington (RSMC) | 243 | Kelburn | Operational |
| 72 | Singapore | 249 | Singapore | Operational |
| 204 | National Institute of Water and Atmospheric Research (NIWA -New Zealand) | 101 | Maupia | Operational |
| | | 102 | Lauder | Operational |
| Region VI | | | | Operational |
| 74 | UK Met Office, Exeter (RSMC) | 1 | Shanwick Oceanic Area Control Centre | Operational |
| | | 2 | Fucino | Operational |
| | | 3 | Gatineau | Operational |
| | | 4 | Maspalomas | Operational |
| | | 5 | ESA ERS Central Facility | Operational |
| | | 6 | Prince Albert | Operational |
| | | 7 | West Freugh | Operational |
| | | 13 | Tromso | Operational |
| | | 21 | Agenzia Spaziale Italiana (Italy) | Operational |
| | | 22 | Centre National de la Recherche Scientifique (France) | Operational |
| | | 23 | GeoForschungs Zentrum (Germany) | Operational |
| | | 24 | Geodetic Observatory Pecny (Czech Republic) | Operational |
| | | 25 | Institut d'Estudis Espacials de Catalunya (Spain) | Operational |
| | | 26 | Federal Office of Topography (Switzerland) | Operational |
| | | 27 | Nordic Commission of Geodesy (Norway) | Operational |
| | | 28 | Nordic Commission of Geodesy (Sweden) | Operational |

(continued)

(Common Code table C-12 - continued)

ORIGINATING CENTRES

C-1, C-11 or C-12

SUB-CENTRES

BUFR 0 01 034
BUFR Edition 3, Octet 5 in Section 1
BUFR Edition 4, Octets 7-8 in Section 1
GRIB Edition 1, Octet 26 in Section 1
GRIB Edition 2, Octets 8-9 in Section 1
CREX Edition 2, ppp in Group Poooooppp
in Section 1

| Code figure | Name | Code figure | Name | Status |
|------------------------------|---------------------------|-------------|---|-------------|
| Region VI (continued) | | 29 | Institute Géographique National (France) - Service de géodésie | Operational |
| | | 30 | Bundesamt für Kartographie und Geodäsie (Germany) | Operational |
| | | 31 | Institute of Engineering Satellite Surveying and Geodesy (U.K.) | Operational |
| | | 32 | Joint Operational Meteorology and Oceanography Centre (JOMOC) | Operational |
| | | 33 | Koninklijk Nederlands Meteorologisch Instituut (Netherlands) | Operational |
| | | 34 | Nordic GPS Atmospheric Analysis centre (Sweden) | Operational |
| | | 35 | Instituto Geografico Nacional de España (Spain) | Operational |
| | | 36 | Met Éireann (Ireland) | Operational |
| | | 37 | Royal Observatory of Belgium (Belgium) | Operational |
| 254 | EUMETSAT Operation Centre | 10 | Tromso (Norway) | Operational |
| | | 20 | Maspalomas (Spain) | Operational |
| | | 30 | Kangerlussuaq (Greenland) | Operational |
| | | 40 | Edmonton (Canada) | Operational |
| | | 50 | Bedford (Canada) | Operational |
| | | 60 | Gander (Canada) | Operational |
| | | 70 | Monterey (United States) | Operational |
| | | 80 | Wallops Island (United States) | Operational |
| | | 90 | Gilmor Creek (United States) | Operational |
| | | 100 | Athens (Greece) | Operational |
| | | 120 | Ewa Beach, Hawaii | Operational |
| | | 130 | Miami, Florida | Operational |
| | | 140 | Lannion (France) | Operational |
| | | 150 | Svalbard (Norway) | Operational |
| | | 170 | St Denis (La Réunion) | Operational |
| | | 180 | Moscow | Operational |
| | | 190 | Muscat | Operational |
| | | 200 | Khabarovsk | Operational |
| | | 210 | Novosibirsk | Operational |

COMMON CODE TABLE C-13: Data sub-categories of categories defined by entries in BUFR Table A

| DATA CATEGORIES | | INTERNATIONAL DATA SUB-CATEGORIES | | |
|---|---|---|--|-----------------|
| BUFR Edition 4, Octet 11 in Section 1 | | BUFR Edition 4, Octet 12 (if = 255, it means other sub-category or undefined) | | |
| CREX Edition 2, nnn in Group Annnmmm of Section 1 | | CREX Edition 2, mmm in Group Annnmmm of Section 1 | | |
| Code figure | Name | Code figure | Name (corresponding traditional alphanumeric codes are in brackets) | Status |
| 000 | Surface data - land | 000 | Hourly synoptic observations from fixed-land stations (SYNOP) | Operational |
| | | 001 | Intermediate synoptic observations from fixed-land stations (SYNOP) | Operational |
| | | 002 | Main synoptic observations from fixed-land stations (SYNOP) | Operational |
| | | 003 | Hourly synoptic observations from mobile-land stations (SYNOP MOBIL) | Operational |
| | | 004 | Intermediate synoptic observations from mobile-land stations (SYNOP MOBIL) | Operational |
| | | 005 | Main synoptic observations from mobile land stations (SYNOP MOBIL) | Operational |
| | | 006 | One-hour observations from automated stations | Operational |
| | | 007 | n-minute observations from AWS stations | Operational |
| | | 010 | Routine aeronautical observations (METAR) | Operational |
| | | 011 | Special aeronautical observations (SPECI) | Operational |
| | | 014 | Ground-based GPS humidity observations (GPSIWV) | Operational |
| | | 020 | Climatological observations (CLIMAT) | Operational |
| | | 030 | Sferics locations | Pre-operational |
| | | 040 | Hydrologic reports | Operational |
| | | 050 | Hourly synoptic observations with supplementary one-hour data | Operational |
| 001 | Surface data - sea | 000 | Synoptic observations (SHIP) | Operational |
| | | 006 | One-hour observations from automated stations | Operational |
| | | 007 | n-minute observations from AWS stations | Operational |
| | | 020 | Climatological observations (CLIMAT SHIP) | Operational |
| | | 025 | Buoy observation (BUOY) | Operational |
| | | 030 | Tide gauge | Operational |
| | | 031 | Observed water level time series | Operational |
| 002 | Vertical soundings (other than satellite) | 001 | Upper-wind reports from fixed-land stations (PILOT) | Operational |
| | | 002 | Upper-wind reports from ships (PILOT SHIP) | Operational |

(continued)

(Common Code table C-13 - continued)

| DATA CATEGORIES | | INTERNATIONAL DATA SUB-CATEGORIES | | |
|--|--|---|---|-------------|
| BUFR Edition 4, Octet 11 in Section 1 | | BUFR Edition 4, Octet 12 (if = 255, it means other sub-category or undefined) | | |
| CREX Edition 2, nnn in Group Annnmmmm of Section 1 | | CREX Edition 2, mmm in Group Annnmmmm of Section 1 | | |
| Code figure | Name | Code figure | Name (corresponding traditional alphanumeric codes are in brackets) | Status |
| | | 003 | Upper-wind reports from mobile land stations (PILOT MOBIL) | Operational |
| | | 004 | Upper-level temperature/humidity/wind reports from fixed-land stations (TEMP) | Operational |
| | | 005 | Upper-level temperature/humidity/wind reports from ships (TEMP SHIP) | Operational |
| | | 006 | Upper-level temperature/humidity/wind report from mobile land stations (TEMP MOBIL) | Operational |
| | | 007 | Upper-level temperature/humidity/wind reports from dropwinsondes (TEMP DROP) | Operational |
| | | 010 | Wind profiler reports | Operational |
| | | 011 | RASS temperature profiles | Operational |
| | | 020 | ASDAR/ACARS profiles (AMDAR) | Operational |
| | | 025 | Climatological observations from fixed-land stations (CLIMAT TEMP) | Operational |
| | | 026 | Climatological observations from ships (CLIMAT TEMP SHIP) | Operational |
| 003 | Vertical soundings (satellite) | 000 | Temperature (SATEM) | Operational |
| | | 001 | TIROS (TOVS) | Operational |
| | | 002 | ATOVS | Operational |
| | | 003 | AMSU-A | Operational |
| | | 004 | AMSU-B | Operational |
| | | 005 | HIRS | Operational |
| | | 006 | MHS | Operational |
| | | 007 | IASI | Operational |
| | | 020 | IR temperature/humidity sounding | Validation |
| | | 030 | Hyperspectral temperature/humidity sounding | Validation |
| | | 040 | MW temperature/humidity sounding | Validation |
| | | 050 | Radio occultation sounding | Validation |
| 004 | Single level upper-air data (other than satellite) | 000 | ASDAR/ACARS (AMDAR) | Operational |
| | | 001 | Manual (AIREP, PIREP) | Operational |
| 005 | Single level upper-air data (satellite) | 000 | Cloud wind data (SATOBS) | Operational |
| 006 | Radar data | 000 | Reflectivity data | Operational |
| | | 001 | Doppler wind profiles | Operational |
| | | 002 | Derived products | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-13 - continued)

DATA CATEGORIES

INTERNATIONAL DATA SUB-CATEGORIES

BUFR Edition 4, Octet 11 in Section 1

BUFR Edition 4, Octet 12 (if = 255, it means other sub-category or undefined)

CREX Edition 2, nnn in Group Annnmmm of Section 1

CREX Edition 2, mmm in Group Annnmmm of Section 1

| Code figure | Name | Code figure | Name (corresponding traditional alphanumeric codes are in brackets) | Status |
|-------------|---|-------------|---|-------------|
| | | 003 | Ground radar weather (RADOB) | Operational |
| 007 | Synoptic features | 000 | Forecast tropical cyclone tracks from EPS | Operational |
| | | 001 | Squall line | Operational |
| 008 | Physical/chemical constituents | 000 | Ozone measurement at surface | Operational |
| | | 001 | Ozone vertical sounding | Operational |
| 009 | Dispersal and transport | 000 | Trajectories, analysis or forecast | Operational |
| 010 | Radiological data | 001 | Observation (RADREP) | Operational |
| | | 002 | Forecast (RADO) | Operational |
| 012 | Surface data (satellite) | 000 | ERS-uwa | Operational |
| | | 001 | ERS-uwj | Operational |
| | | 002 | ERS-ura | Operational |
| | | 003 | ERS-uat | Operational |
| | | 004 | SSM/I radiometer | Operational |
| | | 005 | Quikscat | Operational |
| | | 006 | Surface temp./radiation (SATO) | Operational |
| | | 007 | ASCAT data | Operational |
| 021 | Radiances (satellite measured) | 000 | Earth radiation budget | Validation |
| | | 005 | Cross-track infrared sounder | Operational |
| 022 | Radar (satellite) but not altimeter and scatterometer | 000 | Cloud and precipitation radar | Validation |
| | | 001 | Synthetic aperture radar | Validation |
| 023 | Lidar (satellite) | 000 | Lidar based missions (for wind, for cloud/aerosol, for water vapour, for altimetry) | Validation |
| 024 | Scatterometry (satellite) | 000 | Wind scatterometry | Validation |
| 025 | Altimetry (satellite) | 000 | Radar altimetry | Validation |
| 026 | Spectrometry (satellite) | 000 | Cross nadir shortwave spectrometry (for chemistry) | Validation |
| | | 001 | Cross nadir IR spectrometry (for chemistry) | Validation |
| | | 002 | Limb sounding shortwave spectrometry | Validation |
| | | 003 | Limb sounding IR spectrometry | Validation |
| | | 004 | Limb sounding sub-millimetre wave spectrometry | Validation |
| 027 | Gravity measurements (satellite) | | To be defined | Validation |

(continued)

(Common Code table C-13 - continued)

| DATA CATEGORIES | | INTERNATIONAL DATA SUB-CATEGORIES | | |
|---|---------------------------------|---|---|-------------|
| BUFR Edition 4, Octet 11 in Section 1 | | BUFR Edition 4, Octet 12 (if = 255, it means other sub-category or undefined) | | |
| CREX Edition 2, nnn in Group Annnmmm of Section 1 | | CREX Edition 2, mmm in Group Annnmmm of Section 1 | | |
| Code figure | Name | Code figure | Name (corresponding traditional alphanumeric codes are in brackets) | Status |
| 028 | Precision orbit (satellite) | | To be defined | Validation |
| 029 | Space environment (satellite) | | To be defined | Validation |
| 030 | Calibration dataset (satellite) | | To be defined | Validation |
| 031 | Oceanographic data | 000 | Surface observation | Operational |
| | | 001 | Surface observation along track (TRACKOB) | Operational |
| | | 002 | Spectral wave observation (WAVEOB) | Operational |
| | | 003 | Bathothermal observation (BATHY) | Operational |
| | | 004 | Sub-surface floats (profile) | Operational |
| | | 005 | XBT/XCTD profiles (TESAC) | Operational |
| | | 006 | Waves reports | Operational |
| | | 007 | Tsunameter data | Operational |
| | | 000 | Multi-purpose VIS/IR imagery | Validation |
| | | 001 | Conical scanning MW imagery (intermediate frequencies) | Validation |
| | | 002 | Low frequency MW imagery | Validation |
| | | 003 | Ocean colour imagery | Validation |
| | | 004 | Imagery with special viewing geometry | Validation |
| | | 005 | Lightning imagery | Validation |
| 101 | Image data (satellite) | 006 | High resolution shortwave imagery for land observation | Validation |
| | | 007 | SMOS data | Operational |

COMMON CODE TABLE C-14: *Atmospheric chemical or physical constituent type*

Common Code table Code Table 4.230 in GRIB Edition 2

| Code figure | Meaning | Chemical formula | Status |
|-------------|----------------------|---------------------------------|-------------|
| 0 | Ozone | O ₃ | Operational |
| 1 | Water vapour | H ₂ O | Operational |
| 2 | Methane | CH ₄ | Operational |
| 3 | Carbon dioxide | CO ₂ | Operational |
| 4 | Carbon monoxide | CO | Operational |
| 5 | Nitrogen dioxide | NO ₂ | Operational |
| 6 | Nitrous oxide | N ₂ O | Operational |
| 7 | Formaldehyde | HCHO | Operational |
| 8 | Sulphur dioxide | SO ₂ | Operational |
| 9 | Ammonia | NH ₃ | Operational |
| 10 | Ammonium | NH ₄ ⁺ | Operational |
| 11 | Nitrogen monoxide | NO | Operational |
| 12 | Atomic oxygen | O | Operational |
| 13 | Nitrate radical | NO ₃ | Operational |
| 14 | Hydroperoxyl radical | HO ₂ | Operational |
| 15 | Dinitrogen pentoxide | N ₂ O ₅ | Operational |
| 16 | Nitrous acid | HONO | Operational |
| 17 | Nitric acid | HNO ₃ | Operational |
| 18 | Peroxynitric acid | HO ₂ NO ₂ | Operational |
| 19 | Hydrogen peroxide | H ₂ O ₂ | Operational |
| 20 | Molecular hydrogen | H | Operational |
| 21 | Atomic nitrogen | N | Operational |
| 22 | Sulphate | SO ₄ ²⁻ | Operational |
| 23 | Radon | Rn | Operational |
| 24 | Elemental mercury | Hg (0) | Operational |
| 25 | Divalent mercury | Hg ²⁺ | Operational |
| 26 | Atomic chlorine | Cl | Operational |
| 27 | Chlorine monoxide | ClO | Operational |
| 28 | Dichlorine peroxide | Cl ₂ O ₂ | Operational |
| 29 | Hypochlorous acid | HCIO | Operational |
| 30 | Chlorine nitrate | ClONO ₂ | Operational |
| 31 | Chlorine dioxide | ClO ₂ | Operational |
| 32 | Atomic bromine | Br | Operational |
| 33 | Bromine monoxide | BrO | Operational |
| 34 | Bromine chloride | BrCl | Operational |
| 35 | Hydrogen bromide | HBr | Operational |
| 36 | Hypobromous acid | HBrO | Operational |
| 37 | Bromine nitrate | BrONO ₂ | Operational |
| 38-9999 | Reserved | | Operational |

(continued)

(Common Code table C-14 - continued)

| Code figure | Meaning | Chemical formula | Status |
|-------------|---|--|-------------|
| 10000 | Hydroxyl radical | OH | Operational |
| 10001 | Methyl peroxy radical | CH ₃ O ₂ | Operational |
| 10002 | Methyl hydroperoxide | CH ₃ O ₂ H | Operational |
| 10004 | Methanol | CH ₃ OH | Operational |
| 10005 | Formic acid | CH ₃ OOH | Operational |
| 10006 | Hydrogen cyanide | HCN | Operational |
| 10007 | Aceto nitrile | CH ₃ CN | Operational |
| 10008 | Ethane | C ₂ H ₆ | Operational |
| 10009 | Ethene (= Ethylene) | C ₂ H ₄ | Operational |
| 10010 | Ethyne (= Acetylene) | C ₂ H ₂ | Operational |
| 10011 | Ethanol | C ₂ H ₅ OH | Operational |
| 10012 | Acetic acid | C ₂ H ₅ OOH | Operational |
| 10013 | Peroxyacetyl nitrate | CH ₃ C(O)OONO ₂ | Operational |
| 10014 | Propane | C ₃ H ₈ | Operational |
| 10015 | Propene | C ₃ H ₆ | Operational |
| 10016 | Butanes | C ₄ H ₁₀ | Operational |
| 10017 | Isoprene | C ₅ H ₁₀ | Operational |
| 10018 | Alpha pinene | C ₁₀ H ₁₆ | Operational |
| 10019 | Beta pinene | C ₁₀ H ₁₆ | Operational |
| 10020 | Limonene | C ₁₀ H ₁₆ | Operational |
| 10021 | Benzene | C ₆ H ₆ | Operational |
| 10022 | Toluene | C ₇ H ₈ | Operational |
| 10023 | Xylene | C ₈ H ₁₀ | Operational |
| 10024-10499 | Reserved for other simple organic molecules (e.g. higher aldehydes, alcohols, peroxides,...) | | Operational |
| 10500 | Dimethyl sulphide | CH ₃ SCH ₃ (DMS) | Operational |
| 10501-20000 | Reserved | | Operational |
| 20001 | Hydrogen chloride | | Operational |
| 20002 | CFC-11 | | Operational |
| 20003 | CFC-12 | | Operational |
| 20004 | CFC-113 | | Operational |
| 20005 | CFC-113a | | Operational |
| 20006 | CFC-114 | | Operational |
| 20007 | CFC-115 | | Operational |
| 20008 | HCFC-22 | | Operational |
| 20009 | HCFC-141b | | Operational |
| 20010 | HCFC-142b | | Operational |
| 20011 | Halon-1202 | | Operational |
| 20012 | Halon-1211 | | Operational |
| 20013 | Halon-1301 | | Operational |
| 20014 | Halon-2402 | | Operational |
| 20015 | Methyl chloride (HCC-40) | | Operational |
| 20016 | Carbon tetrachloride (HCC-10) | | Operational |

(continued)

COMMON CODE TABLES

(Common Code table C-14 - continued)

| Code figure | Meaning | Chemical formula | Status |
|-------------|--|---------------------------|-------------|
| 20017 | HCC-140a | CH_3CCl_3 | Operational |
| 20018 | Methyl bromide (HBC-40B1) | | Operational |
| 20019 | Hexachlorocyclohexane (HCH) | | Operational |
| 20020 | Alpha hexachlorocyclohexane | | Operational |
| 20021 | Hexachlorobiphenyl (PCB-153) | | Operational |
| 20022-29999 | Reserved | | Operational |
| 30000-59999 | Reserved | | Operational |
| 60000 | HO_x radical ($\text{OH} + \text{HO}_2$) | | Operational |
| 60001 | Total inorganic and organic peroxy radicals ($\text{HO}_2 + \text{RO}_2$) | RO_2 | Operational |
| 60002 | Passive Ozone | | Operational |
| 60003 | NO_x expressed as nitrogen | NO_x | Operational |
| 60004 | All nitrogen oxides (NO_y) expressed as nitrogen | NO_y | Operational |
| 60005 | Total inorganic chlorine | Cl_x | Operational |
| 60006 | Total inorganic bromine | Br_x | Operational |
| 60007 | Total inorganic chlorine except HCl , ClONO_2 : ClO_x | | Operational |
| 60008 | Total inorganic bromine except HBr , BrONO_2 : BrO_x | | Operational |
| 60009 | Lumped alkanes | | Operational |
| 60010 | Lumped alkenes | | Operational |
| 60011 | Lumped aromatic compounds | | Operational |
| 60012 | Lumped terpenes | | Operational |
| 60013 | Non-methane volatile organic compounds expressed as carbon | NMVOC | Operational |
| 60014 | Anthropogenic non-methane volatile organic compounds expressed as carbon | aNMVOC | Operational |
| 60015 | Biogenic non-methane volatile organic compounds expressed as carbon | bNMVOC | Operational |
| 60016 | Lumped oxygenated hydrocarbons | OVOC | Operational |
| 60017-61999 | Reserved | | Operational |
| 62000 | Total aerosol | | Operational |
| 62001 | Dust dry | | Operational |
| 62002 | Water in ambient | | Operational |
| 62003 | Ammonium dry | | Operational |
| 62004 | Nitrate dry | | Operational |
| 62005 | Nitric acid trihydrate | | Operational |
| 62006 | Sulphate dry | | Operational |
| 62007 | Mercury dry | | Operational |
| 62008 | Sea salt dry | | Operational |
| 62009 | Black carbon dry | | Operational |
| 62010 | Particulate organic matter dry | | Operational |
| 62011 | Primary particulate organic matter dry | | Operational |
| 62012 | Secondary particulate organic matter dry | | Operational |
| 62013-65534 | Reserved | | Operational |
| 65535 | Missing | | Operational |