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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  THIRD MEETING OF  INTER-PROGRAMME EXPERT TEAM ON CODES MAINTENANCE  MARRAKECH, MOROCCO, 15 - 19 APRIL 2019 |  | IPET-CM-III / Doc. 2.5(6)  10.04.2019  -------------------------  ITEM 2.5  ENGLISH ONLY |

MANUAL ON CODES: TABLE-DRIVEN CODE FORMS

Common Code tables

Editorial changes to Common Code Table C-14 – Atmospheric chemical or physical constituent types

*Submitted by Sébastien Villaume (ECMWF)*

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**Summary and Purpose of Document**

The aim of this document is to propose several editorial changes for Common Code Table C-14 – *Atmospheric chemical or physical constituent types* to improve its overall consistency.

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**ACTION PROPOSED**

The team is requested to approve the editorial changes listed below for inclusion within the next update to the WMO Manual on Codes.

**DISCUSSIONS**

While preparing a separate proposal with new entries in Common Code Table C-14, we noticed several typos, errors and lack of consistency. This document lists several editorial changes to improve Common Code Table C-14.

**PROPOSAL**

**Common Code Table C-14 – Atmospheric chemical or physical constituent types**

**EDIT** the entries (in blue)

|  |  |  |
| --- | --- | --- |
| **Code** | **Name** | **Formula** |
| **10** | Ammonium cation | NH4+ |
| **13** | Nitrate radical | NO3• |
| **14** | Hydroperoxyl radical | HOO• |
| **20** | Dihydrogen | H2 |
| **22** | Sulphate anion | SO42- |
| **23** | Atomic Radon | Rn |
| **24** | Mercury vapor | Hg(0) |
| **25** | Mercury(II) cation | Hg2+ |
| **38** | Dioxygen | O2 |
|  |  |  |
| **10000** | Hydroxyl radical | HO• |
| **10001** | Methyl peroxy radical | CH3OO• |
| **10016** | Butane (all isomers) | C4H10 |
|  |  |  |
| **20001** | Hydrogen Chloride | HCl |
| **20002** | CFC-11 (trichlorofluoromethane) | CCl3F |
| **20003** | CFC-12 (dichlorodifluoromethane) | CCl2F2 |
| **20004** | CFC-113 (1,1,2-trichloro-1,2,2-trifluoroethane) | Cl2FC-CClF2 |
| **20005** | CFC-113a (1,1,1-trichloro-2,2,2-trifluoroethane) | Cl3C-CF3 |
| **20006** | CFC-114 (1,2-dichloro-1,1,2,2-tetrafluoroethane) | ClF2C-CClF2 |
| **20007** | CFC-115 (1-chloro-1,1,2,2,2-pentafluoroethane) | ClF2C-CF3 |
| **20008** | HCFC-22 (chlorodifluoromethane) | CHClF2 |
| **20009** | HCFC-141b (1,1-dichloro-1-fluoroethane) | Cl2FC-CH3 |
| **20010** | HCFC-142b (1-chloro-1,1-difluoroethane) | ClF2C-CH3 |
| **20011** | Halon-1202 (dibromo(difluoro)methane) | CBr2F2 |
| **20012** | Halon-1211 (bromochlorodifluoromethane) | CBrClF2 |
| **20013** | Halon-1301 (bromo(trifluoro)methane) | CBrF3 |
| **20014** | Halon-2402 (1,2-dibromo-1,1,2,2-tetrafluoroethane) | BrF2C-CBrF2 |
| **20015** | HCC-40 (methyl chloride) | CH3Cl |
| **20016** | HCC-10 (carbon tetrachloride) | CCl4 |
| **20017** | HCC-140a (1,1,1-trichloroethane) | Cl3C-CH3 |
| **20018** | HBC-40B1 (methyl bromide) | CH3Br |
| **20019** | HCH (hexachlorocyclohexane) all isomers | C6H6Cl6 |
| **20020** | α-HCH (α-hexachlorocyclohexane) both enantiomers | α-C6H6Cl6 |
| **20021** | PCB-153 (2,2',4,4',5,5'-hexachlorobiphenyl) | (C6H2Cl3)2 |
| **20022** | HCFC-141a (1,1-dichloro-2-fluoroethane) | Cl2HC-CH2F |
| **30010** | Tritium (Hydrogen 3) | H-3 |
| **30011** | Tritium organic bounded | H-3o |
| **30012** | Tritium inorganic | H-3a |
|  |  |  |
| **60000** | HOx radical (OH+HO2) | HOx• |
| **60001** | Total inorganic and organic peroxy radicals (HOO• + ROO•) | ROO• |

Note that entry 20022 which is not yet operational has the wrong chemical formula. It is now corrected in this document.