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| WORLD METEOROLOGICAL ORGANIZATIONCOMMISSION FOR BASIC SYSTEMS-----------------------------THIRD MEETING OFINTER-PROGRAMME EXPERT TEAM ONCODES MAINTENANCEMARRAKECH, MOROCCO, 15 - 19 APRIL 2019 |  | IPET-CM-III / Doc. 2.5(4)10.04.2018-------------------------ITEM 2.5ENGLISH ONLY |

MANUAL ON CODES: TABLE-DRIVEN CODE FORMS

Common Code tables

Update to XBT Fall Rate Equations (Common Code Table C-3)

*Submitted by David Berry (on behalf of JCOMM)*

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**Summary and Purpose of Document**

Two typographical errors have been detected in Common Code Table C-3, this proposal corrects those errors to be consistent with the manufacturers values.

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**ACTION PROPOSED**

The meeting is requested to approve the contents of this proposal for implementation in FT2019-2.

**ANNEXES:**

 1. (Title of annex)

**DISCUSSIONS**

During the intersessional period two typographical errors have been detected in the Common Code Table C-3 (Instrument make and type for water temperature profile measurement with fall rate equation coefficients) for Sippican XBT probes T-11 (entry 071) and LMP-5 (entry 900). For probe T-11 a digit has been omitted from coefficient *a*. The incorrect value currently listed is 1.779 whilst the manufacturers value is 1.7779. For probe LMP-5, coefficient *b*is unscaled whilst it should be scaled by a factor of 1000 to be consistent with the other entries and with note 1 (repeated below):

(1) The depth is calculated from coefficients a and b and the time t as follows: z = at + 10–3 bt2

Noting that the fall rate equation coefficients listed in Common Code Table C-3 are for information only and do not require validation, it is proposed that the changes be implemented as part of FT2019-2.

**PROPOSAL**

Amend entries in Common Code Table C-3 (Instrument make and type for water temperature profile measurement with fall rate equation coefficients) with the values below (changes in red).

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| Code figure for IxIxIx | Code figure for BUFR(Code table 0 22 067) | Meaning |
| Instrument make and type | Equation Coefficients |
| a | b |
| 071 | 71 | Sippican T-11 | 1.7779 | -0.255 |
| 900 | 900 | Sippican LMP-5 XBT | 9.727 | –0.0473 |

(Details of proposal)