## UTCr README (05 February 2020)

THIS DIRECTORY CONTAINS:

- utcr/Results of the computation of UTCr (one file per week).
- utcrlab/ Results of the computation of UTCr (one file per laboratory).
- data/data processed for the computation of UTCr.
- documents/ with information related to UTCr

Official results published from 1 July 2013 are in:

- utcr/

files **UTCr\_yyww** with daily values of [UTCr-UTC(k)] at 0 h UTC for year yy and week ww starting from UTCr\_1326. They are also available at http://www.bipm.org/jsp/en/TimeFtp.jsp?TypePub=publication;

Sub-directory "pilot\_experiment" contains the results published during the pilot experiment phase: files UTCr\_yyww with daily values of [UTCr-UTC(k)] at 0 h UTC for year yy and week ww from UTCr\_1205 to UTCr\_1325; files UTCr\_p-lab with daily values of the differences between UTCr and UTC(lab) at 0 h UTC from MJD 55956 to MJD 56466.

- utcrlab/

files **UTCr-lab** contain daily values of the differences between UTCr and UTC(lab) at 0 h UTC starting from MJD 56467. They are also available at http://www.bipm.org/jsp/en/TimeFtp.jsp?TypePub=publication.

- data/

Folder 'yyww/clocks/' where 'yy' is for the year 20yy. This directory contains all weekly clock data formatted for UTCr computation, for the corresponding year 20yy:

Files 'uh\_\_\_dd.ddd' are daily values UTC(k)- clock of all clocks for MJD ddddd.

The file format is: XXXXX.XXX 100YY CCCCCCC aaaaaaa.aaa 000000.000 AAAA Description of a line containing clock data: field 01 to 09 : XXXXX.XXX is MJD in format f9.3. field 10 to 12 : blank characters field 13 to 17 : 100YY is the laboratory code : blank character field 18 field 19 to 25 : CCCCCCC is the code of one clock on 7 digits field 26 : blank character field 27 to 37 : aaaaaaa.a is [UTC(lab)-clock)] in format F11.3, in ns field 38 : blank character field 39 to 48 : uuuuuuu.u is uncertainty in format F10.3, in ns field 49 : blank character field 50 to 53 : AAAA is the laboratory acronym, up to 4 characters

Files 'sh\_\_\_\_dd.ddd' are daily declared clock steps. \_ \_ \_ \_ \_ The file format is: 1234567890123456789012345678901234567890123456789012 XXXXX.XXX CCCCCCC cccccc.ccc bbbbbbb.bbb AAAA 100YY Description of a line containing clock step data: field 01 to 09 : XXXXX.XXX is MJD on 5 digits and the fraction of day of the step field 10 : blank character field 11 to 17 : CCCCCCC is the code of the clock on 7 digits field 18 : blank character field 19 to 29 : cccccc.ccc is the amount of the time step in format F11.3, in ns field 30 : blank character field 31 to 41 : bbbbbbb.bbb is the amount of the frequency step in format F11.3, in ns/d field 42 : blank character field 43 to 46 : AAAA is the laboratory acronym, up to 4 characters field 47 : blank character field 48 to 52 : 100YY is the laboratory code on 5 digits

- documents/
- Files FA-TA.452/453/454 are the messages circulated among the laboratories informing on the pilot experiment on UTCr.
- Files FA-TA.xxx dated from 1 July 2013 concern the regular calculation of UTCr.
- Files UTCr-Bull\_xx are the information bulletins on UTCr issued by the Time Department.
- File ReadMe\_guidelines.pdf gives the information on data submission for UTCr via FTP server.