

## BUREAU INTERNATIONAL DES POIDS ET MESURES

Key comparison CCTF-K001.UTC - Results  
 Degrees of equivalence  $D_k = [UTC - UTC(k)]$  for October 2020  
 Computed 2020 NOVEMBER 09, 09h UTC

Coordinated Universal Time **UTC** and its local realizations **UTC(k)** in National Metrology Institutes and Designated Institutes.

Computed values of  $[UTC - UTC(k)]$  and uncertainties valid for the period of this publication

| Date 2020 0h UTC    | OCT 2               | OCT 7   | OCT 12  | OCT 17  | OCT 22  | OCT 27  | Uncertainty/ns |
|---------------------|---------------------|---------|---------|---------|---------|---------|----------------|
| MJD                 | 59124               | 59129   | 59134   | 59139   | 59144   | 59149   |                |
| Laboratory <i>k</i> | $[UTC - UTC(k)]/ns$ |         |         |         |         |         | $U_k$          |
| BelGIM              | -4.2                | -3.9    | -1.8    | -0.8    | -1.9    | -2.0    | 24.6           |
| BEV                 | -14.2               | 0.3     | 1.9     | 13.3    | 20.8    | 25.5    | 6.4            |
| BFKH                | 1447.8              | 1473.5  | 1492.3  | 1520.5  | 1543.5  | 1567.7  | 40.2           |
| BIM                 | 13608.4             | 13642.4 | 13667.5 | 13683.0 | 13701.6 | 13732.3 | 14.2           |
| BMM                 | 671.2               | 699.7   | 726.8   | 765.2   | 793.0   | 829.8   | 40.0           |
| BOM                 | -3921.6             | -3927.8 | -3946.9 | -3972.7 | -3982.6 | -3991.3 | 15.2           |
| CENAM               | 3.1                 | 4.9     | 1.2     | 3.4     | 1.5     | 2.0     | 23.0           |
| CENAMAP AIP         | -1.7                | 1.3     | 1.5     | 5.7     | 11.3    | -0.5    | 14.8           |
| DEF-NAT             | 10209.7             | 10458.1 | 10676.1 | -       | 307.7   | 570.6   | 40.0           |
| DMDM                | -10.9               | -6.6    | 4.3     | 9.9     | 5.6     | 12.5    | 6.6            |
| EIM                 | -4.2                | 9.1     | 0.5     | 6.2     | 1.9     | 0.0     | 23.8           |
| EMI                 | 12.3                | 14.1    | 11.9    | 11.2    | 17.8    | 15.2    | 17.0           |
| ESA                 | -2.2                | -1.5    | -1.0    | -1.3    | -1.5    | -2.1    | 5.4            |
| FTMC                | 892.1               | 860.1   | 813.1   | 848.2   | 834.8   | 808.7   | 5.6            |
| GUM                 | 1.3                 | 1.0     | 0.8     | 1.0     | 0.6     | 0.4     | 5.6            |
| ILNAS               | -9.7                | -3.4    | -1.1    | 4.7     | 8.5     | 9.9     | 5.8            |
| IMBIH               | -4.3                | -1.0    | 0.1     | -3.6    | 0.0     | -0.9    | 5.4            |
| INACAL              | 3.4                 | -8.3    | -6.1    | -30.1   | -54.0   | -51.4   | 41.2           |
| INM                 | 2169.6              | 1828.7  | 1488.1  | 1145.9  | 798.3   | 452.2   | 15.0           |
| INM(CO)             | -65.5               | -62.1   | -70.6   | -76.1   | -65.8   | -81.1   | 40.2           |
| INMETRO             | -4.9                | -8.8    | -10.9   | -14.8   | -12.7   | -15.4   | 40.0           |
| INPL                | -32.0               | -20.8   | -21.2   | -25.1   | -32.2   | -40.5   | 14.4           |
| INRIM               | 0.5                 | -1.1    | -2.3    | -3.3    | -4.5    | -4.6    | 2.6            |
| INTI                | 58.8                | 69.0    | 68.4    | 66.1    | 60.0    | 60.0    | 40.4           |
| IPE/ASCR            | -5.4                | -13.4   | -18.1   | -14.7   | -12.1   | -15.1   | 5.4            |
| IPQ                 | 232.0               | 236.6   | 224.2   | 227.0   | 236.2   | 240.2   | 40.0           |

|                    |         |         |         |         |         |         |      |
|--------------------|---------|---------|---------|---------|---------|---------|------|
| JV                 | -38.3   | -38.6   | -32.4   | -33.9   | -25.8   | -22.5   | 8.6  |
| KRISS              | 8.1     | 8.0     | 8.7     | 8.0     | 7.9     | 8.1     | 6.2  |
| LACOMET            | -67.0   | -61.4   | -49.4   | -45.0   | -38.3   | -38.3   | 40.4 |
| LATMB              | -154.5  | -160.6  | -157.6  | -165.4  | -177.8  | -197.7  | 24.6 |
| LNE-SYRTE          | 0.0     | -0.2    | -0.5    | -0.5    | -0.5    | -0.6    | 2.4  |
| MASM               | -36.0   | -104.2  | -173.3  | -253.0  | -338.4  | -444.5  | 5.6  |
| METAS              | 0.9     | -1.8    | -0.8    | 0.5     | 1.3     | 1.8     | 4.8  |
| MIKES              | 13.6    | 13.0    | 12.6    | 11.9    | 10.7    | 10.4    | 5.2  |
| MIRS/SIQ/Metrology | 152.4   | 159.2   | 154.5   | 176.9   | 164.5   | 160.9   | 7.4  |
| MSL                | 12.8    | 16.8    | -4.3    | -1.6    | 7.5     | 7.8     | 40.2 |
| MUSSD              | -       | -       | 256.4   | 256.4   | 259.8   | 259.4   | 5.4  |
| NICT               | -2.8    | -2.0    | -1.4    | -1.4    | -1.1    | 0.0     | 4.2  |
| NIM                | -2.1    | -2.3    | -2.2    | -1.9    | -1.8    | -1.4    | 4.2  |
| NIMT               | -       | -       | -       | -       | -       | -       | -    |
| NIS                | 34.8    | 17.6    | 13.9    | 10.8    | 7.7     | 4.6     | 40.0 |
| NIST               | 1.5     | 0.8     | 0.3     | 0.3     | 0.9     | 1.3     | 4.2  |
| NMC, A*STAR        | -5.8    | 1.9     | 0.4     | -1.3    | -0.8    | 2.7     | 5.4  |
| NMIA               | -379.8  | -391.6  | -397.6  | -403.2  | -417.5  | -412.5  | 22.4 |
| NMIJ AIST          | 7.4     | 4.9     | 2.4     | 1.7     | 2.9     | 3.0     | 6.4  |
| NMIM               | -2174.5 | -2158.2 | -2131.3 | -2106.0 | -2073.5 | -2044.5 | 7.2  |
| NMISA              | -0.9    | -1.6    | 0.3     | 4.3     | 7.1     | 7.2     | 5.6  |
| NPL                | 0.4     | -0.3    | -0.4    | 0.0     | -0.3    | 0.0     | 5.4  |
| NPLI               | -1.8    | -1.7    | -1.9    | -1.7    | -1.8    | -1.4    | 5.6  |
| NRC                | -32.4   | -35.5   | -30.2   | -18.8   | -9.8    | 7.8     | 6.0  |
| NSAI NML           | -61.0   | -72.0   | -73.1   | -73.4   | -80.7   | -91.1   | 14.0 |
| NSC IM             | -1.1    | 6.6     | 12.1    | 8.2     | 12.1    | 14.2    | 14.6 |
| ON/DSHO            | -0.3    | 0.1     | 3.4     | -3.9    | -0.3    | 5.4     | 40.0 |
| PTB                | -0.6    | -1.0    | -1.2    | -1.3    | -1.4    | -1.4    | 1.6  |
| RISE               | -2.0    | -1.8    | -1.7    | -1.1    | -1.1    | -1.1    | 2.4  |
| ROA                | -4.4    | -5.3    | -5.0    | -5.1    | -3.7    | -3.0    | 2.6  |
| SASO               | -1718.4 | -1737.2 | -1754.7 | -1769.1 | -1782.9 | -1790.4 | 6.2  |
| SCL                | -182.7  | -183.0  | -170.8  | -159.9  | -156.7  | -152.2  | 6.2  |
| SMD                | -3.3    | 1.6     | 5.5     | 9.8     | 4.3     | 1.8     | 6.2  |
| SMU                | -45.4   | -40.0   | -33.4   | -34.0   | -42.4   | -39.0   | 24.6 |
| SNSU-BSN           | 2301.6  | 2299.3  | 2315.1  | 2308.3  | 2288.0  | 2307.9  | 5.4  |
| TL                 | -0.2    | -0.4    | -0.2    | -0.6    | -0.6    | -0.1    | 4.4  |
| UME                | 5.3     | 2.9     | 0.2     | -2.0    | -2.0    | -0.5    | 6.6  |
| VMI-STAMEQ         | 3.9     | 9.7     | 10.4    | 4.7     | 1.0     | -1.8    | 14.0 |
| VNIIFTRI           | -2.0    | -2.1    | -2.5    | -2.4    | -2.5    | -2.2    | 4.0  |
| VSL                | -0.4    | -4.4    | -11.1   | -15.5   | -10.3   | -8.2    | 3.8  |