



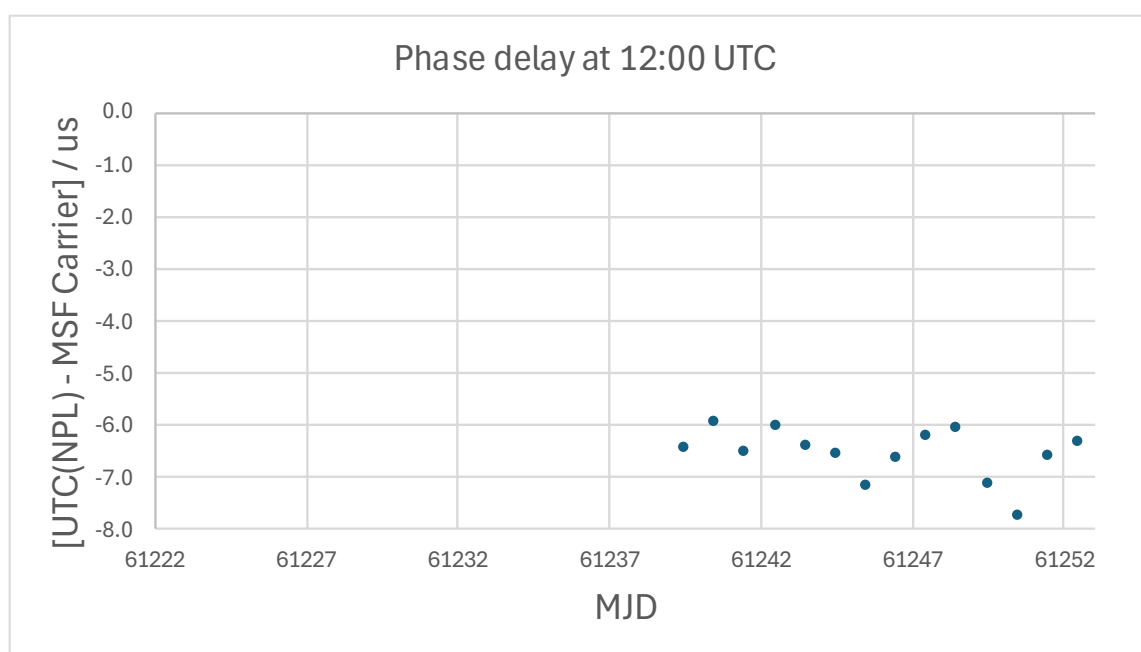
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## MSF Monitoring Bulletin

**1 July 2026 – 31 July 2026**

**MJD 61222 - MJD 61252**

The plot and table below show measurements of the 60 kHz carrier phase delay of the MSF signal relative to UTC(NPL) with an arbitrary fixed time offset (modulo  $16.67 \mu\text{s}$ ). The data has been averaged for 10 minutes at midday (11:55 – 12:05 UTC) each day.



### Statistics

|                    |                    |
|--------------------|--------------------|
| Mean Value         | -6.6 $\mu\text{s}$ |
| Standard Deviation | 0.5 $\mu\text{s}$  |

Note: Measurements impacted by daytime annual scheduled maintenance 29 June to 17 July 2026.

**Tabulated Values**

| <b>Day</b>        | <b>MJD</b> | <b>Phase delay / <math>\mu</math>s</b> |
|-------------------|------------|----------------------------------------|
| <b>2026-07-01</b> | 61222.5    | NaN                                    |
| <b>2026-07-02</b> | 61223.5    | NaN                                    |
| <b>2026-07-03</b> | 61224.5    | NaN                                    |
| <b>2026-07-04</b> | 61225.5    | NaN                                    |
| <b>2026-07-05</b> | 61226.5    | NaN                                    |
| <b>2026-07-06</b> | 61227.5    | NaN                                    |
| <b>2026-07-07</b> | 61228.5    | NaN                                    |
| <b>2026-07-08</b> | 61229.5    | NaN                                    |
| <b>2026-07-09</b> | 61230.5    | NaN                                    |
| <b>2026-07-10</b> | 61231.5    | NaN                                    |
| <b>2026-07-11</b> | 61232.5    | NaN                                    |
| <b>2026-07-12</b> | 61233.5    | NaN                                    |
| <b>2026-07-13</b> | 61234.5    | NaN                                    |
| <b>2026-07-14</b> | 61235.5    | NaN                                    |
| <b>2026-07-15</b> | 61236.5    | NaN                                    |
| <b>2026-07-16</b> | 61237.5    | NaN                                    |
| <b>2026-07-17</b> | 61238.5    | NaN                                    |
| <b>2026-07-18</b> | 61239.5    | -6.4                                   |
| <b>2026-07-19</b> | 61240.5    | -6.0                                   |
| <b>2026-07-20</b> | 61241.5    | -6.5                                   |
| <b>2026-07-21</b> | 61242.5    | -6.0                                   |
| <b>2026-07-22</b> | 61243.5    | -6.4                                   |
| <b>2026-07-23</b> | 61244.5    | -6.6                                   |
| <b>2026-07-24</b> | 61245.5    | -7.2                                   |
| <b>2026-07-25</b> | 61246.5    | -6.7                                   |
| <b>2026-07-26</b> | 61247.5    | -6.2                                   |
| <b>2026-07-27</b> | 61248.5    | -6.1                                   |
| <b>2026-07-28</b> | 61249.5    | -7.1                                   |
| <b>2026-07-29</b> | 61250.5    | -7.8                                   |
| <b>2026-07-30</b> | 61251.5    | -6.6                                   |
| <b>2026-07-31</b> | 61252.5    | -6.4                                   |

NaN indicates measurement is unavailable.

To find out more about the MSF Radio Time Signal:

[npl.co.uk/products-services/time-frequency/msf-radio-time-signal](https://npl.co.uk/products-services/time-frequency/msf-radio-time-signal)

To get in touch:

[npl.co.uk/contact](https://npl.co.uk/contact)

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