

# Country Data and Graphs for Germany

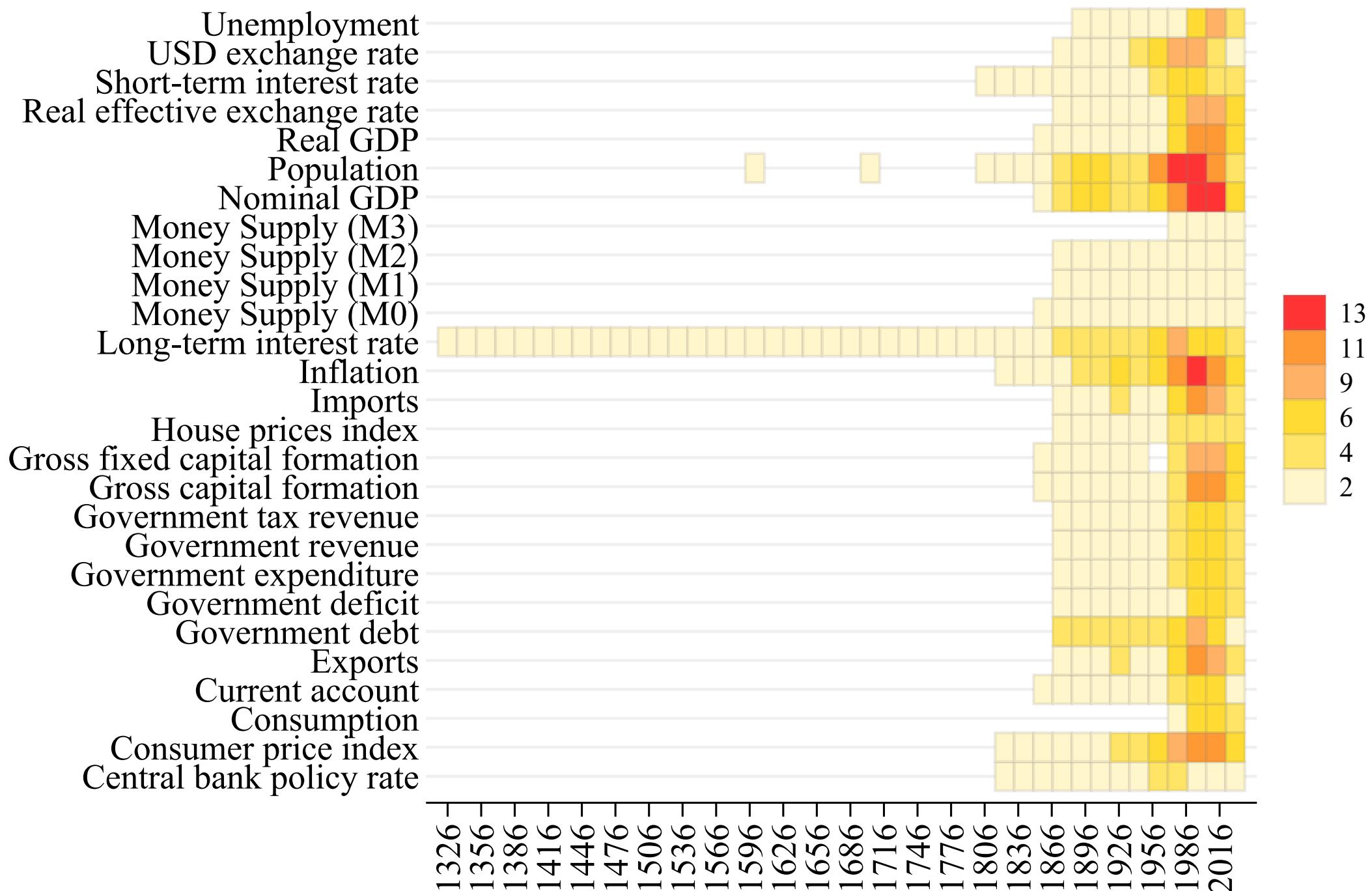
January 31, 2025

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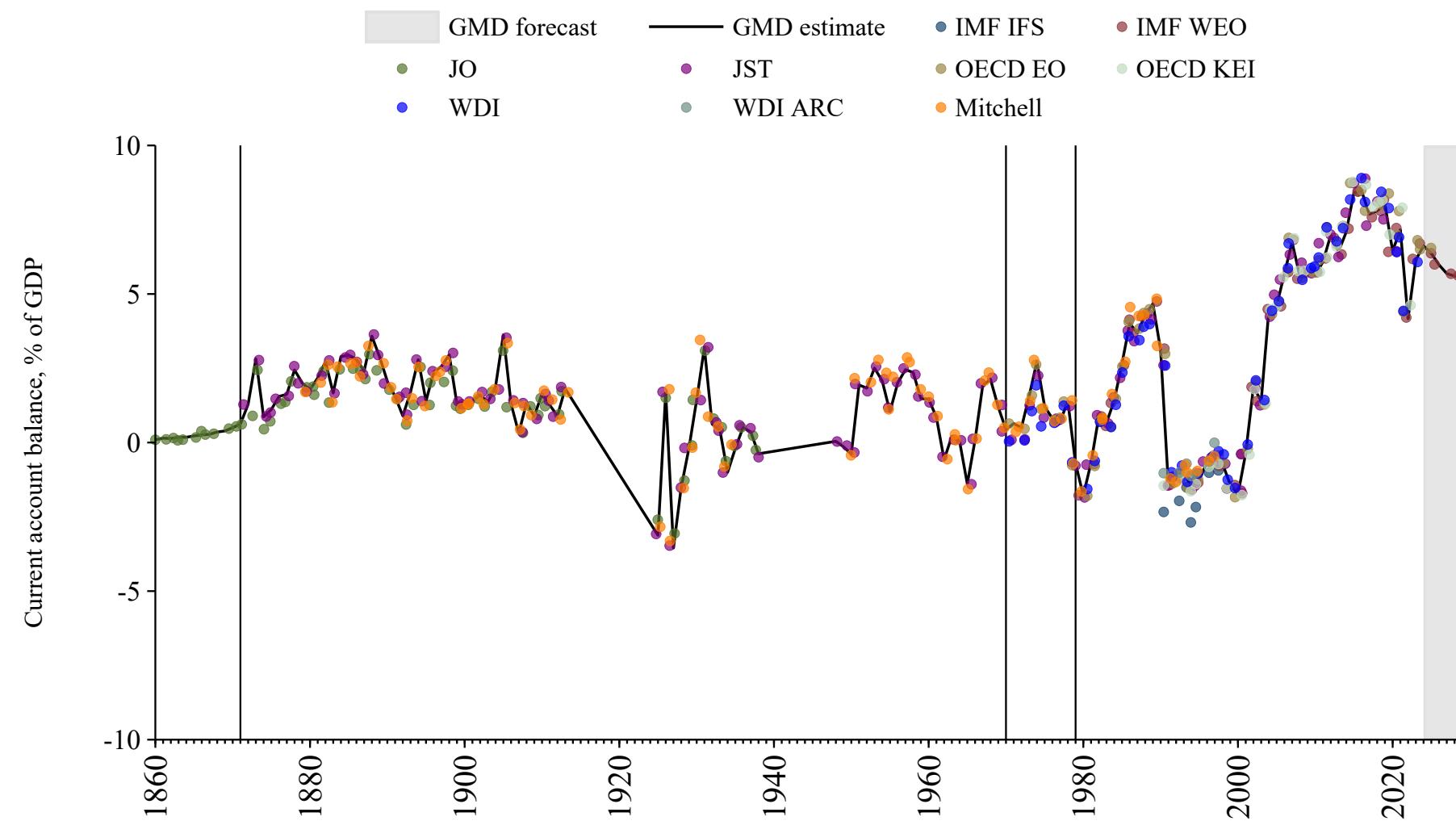
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## Data availability heatmap



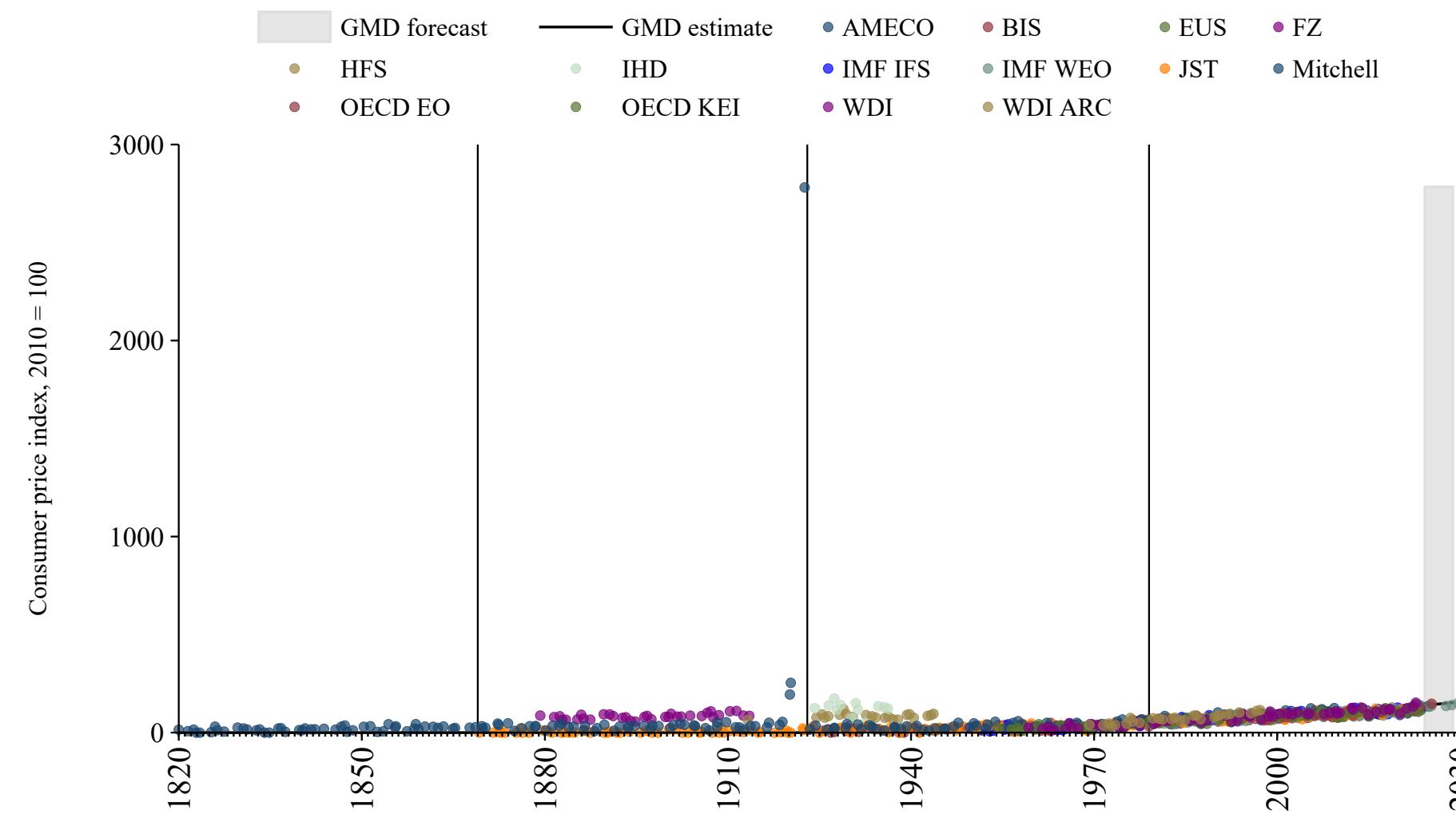
## Current account balance

| Source                       | Time span   | Notes   |
|------------------------------|-------------|---|
| Jones and Obstfeld (1997)    | 1860 - 1871 | Spliced using overlapping data in 1872        |
| Jordà et al. (2017)          | 1872 - 1970 | Spliced using overlapping data in 1971        |
| OECD Economic Outlook (2024) | 1971 - 1979 | Spliced using overlapping data in 1980        |
| WEO (2024)                   | 1980 - 2029 | Baseline source, overlaps with base year 2018 |



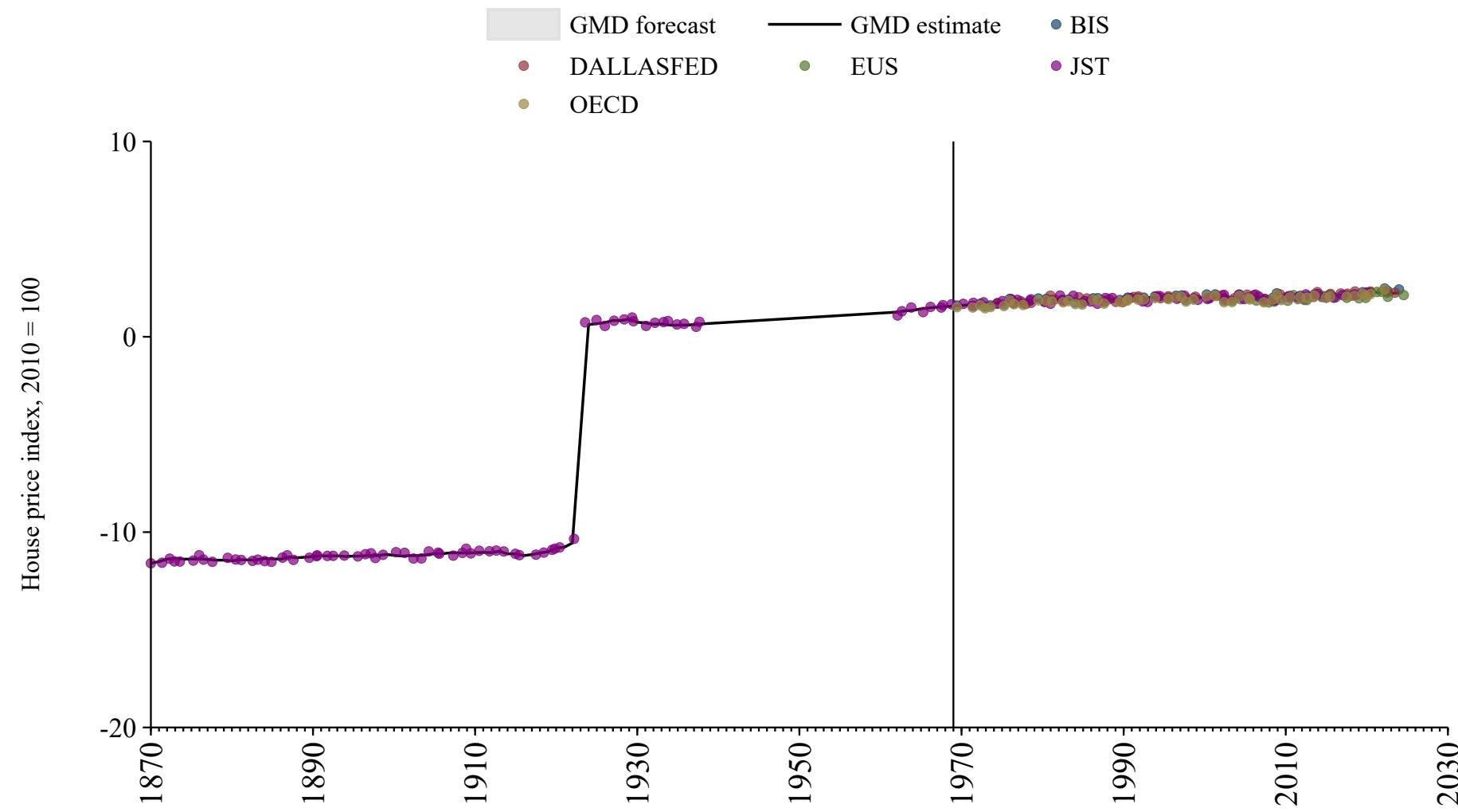
## Consumer price index

| Source                                    | Time span   | Notes  |
|---|-------------|--|
| Mitchell (2013)                           | 1820 - 1869 | Spliced using overlapping data in 1870: (ratio = 0%).    |
| Jordà et al. (2017)                       | 1870 - 1923 | Spliced using overlapping data in 1924: (ratio = 94.8%). |
| Bank for International Settlements (2024) | 1924 - 1979 | Spliced using overlapping data in 1980: (ratio = 93.1%). |
| WEO (2024)                                | 1980 - 2029 | Baseline source, overlaps with base year 2018            |



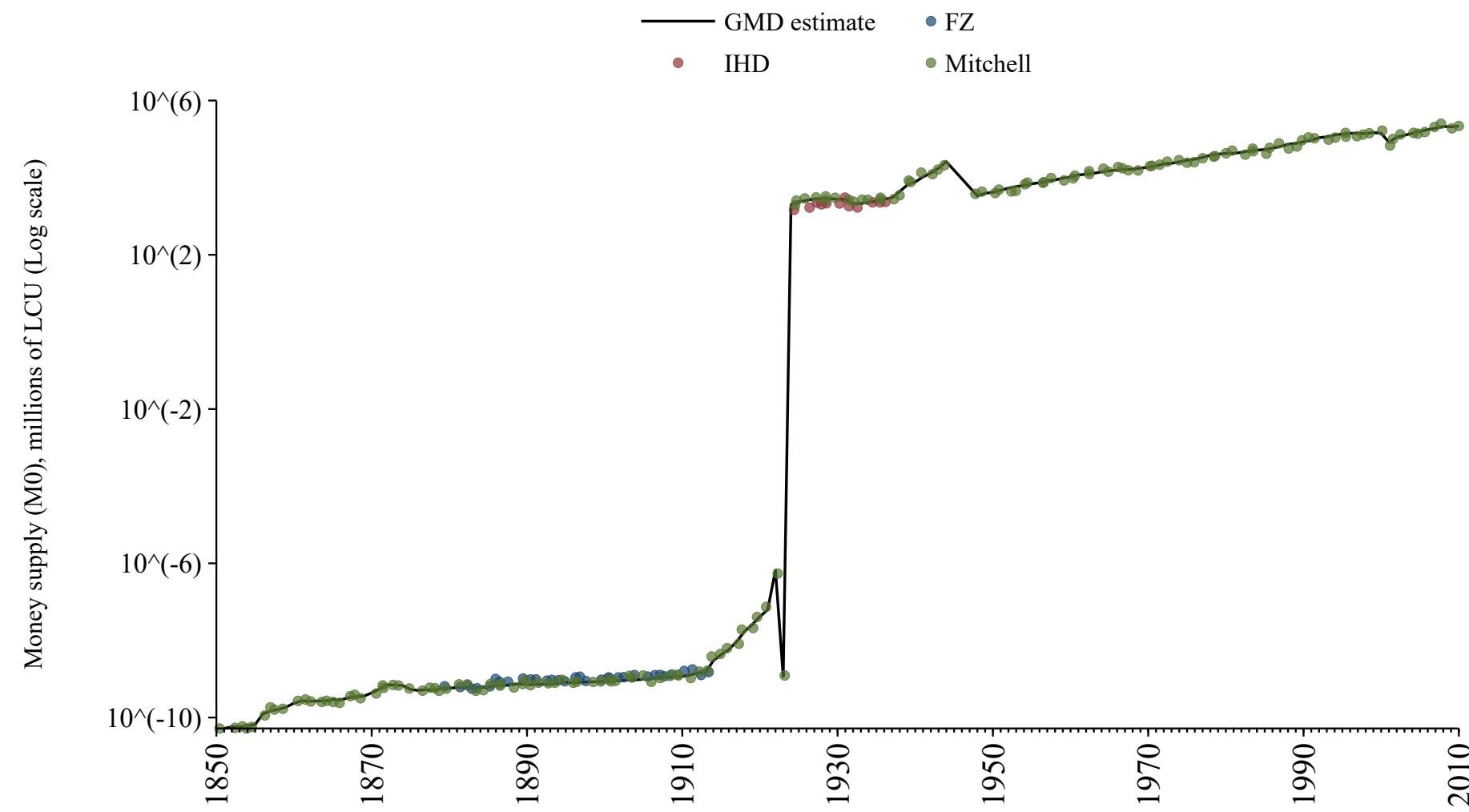
## House price index

| Source                                    | Time span   | Notes  |
|---|-------------|--|
| Jordà et al. (2017)                       | 1870 - 1969 | Spliced using overlapping data in 1970: (ratio = 99.8%). |
| Bank for International Settlements (2024) | 1970 - 2024 | Baseline source, overlaps with base year 2018            |



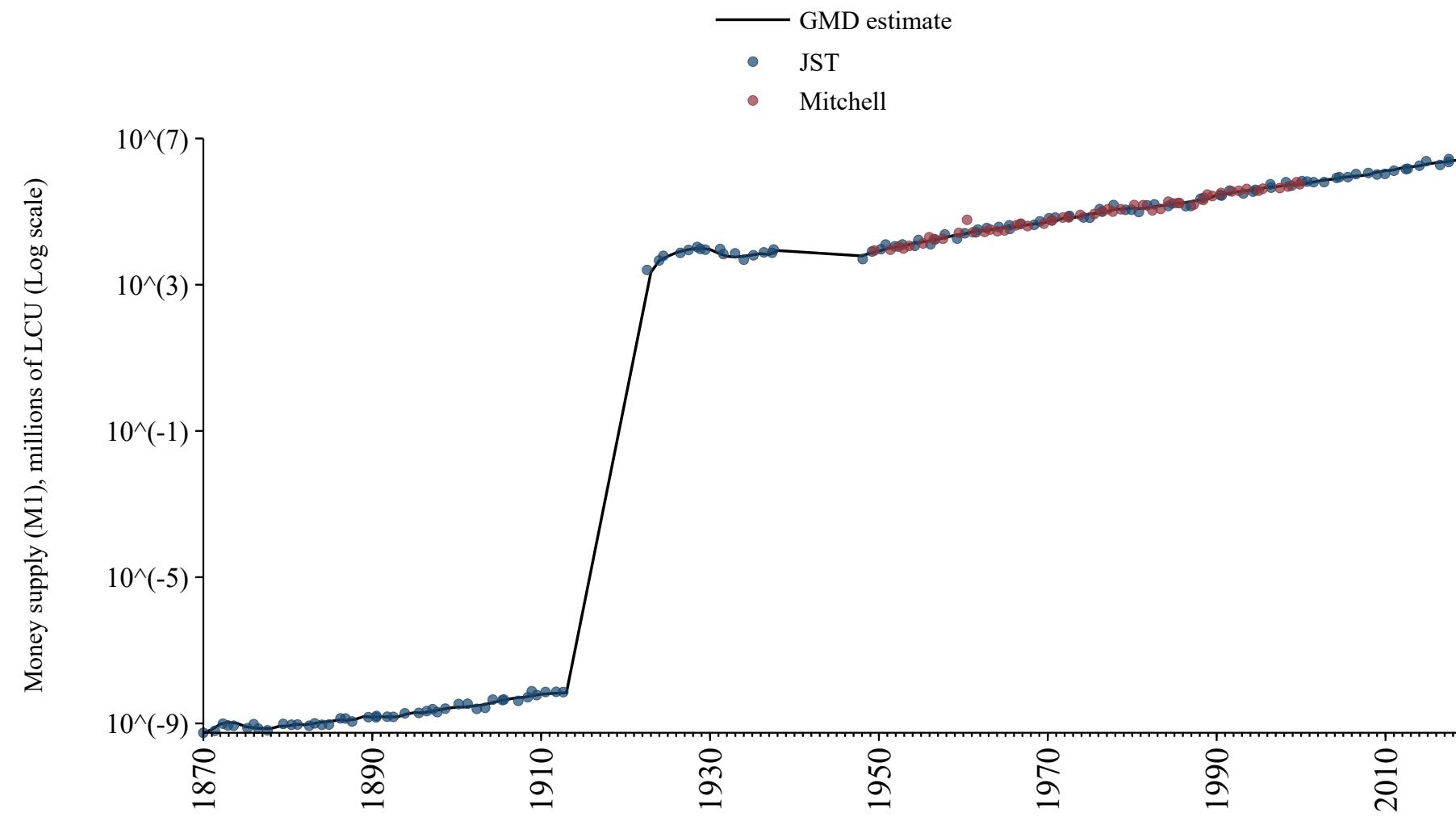
## Money supply (M0)

| Source          | Time span   | Notes                                  |
|-----------------|-------------|--|
| Mitchell (2013) | 1851 - 2010 | Spliced using overlapping data in 2011 |



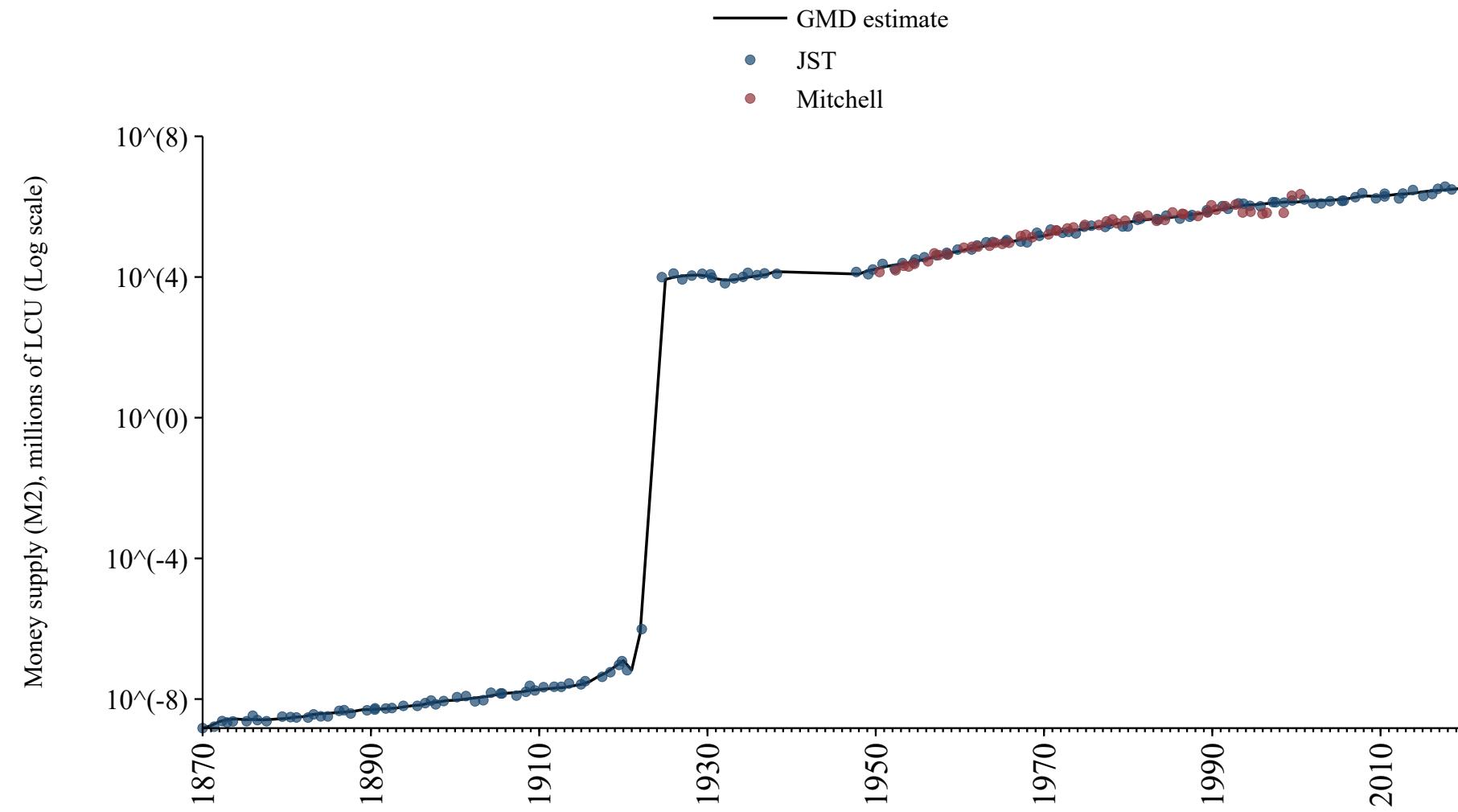
## Money supply (M1)

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Jordà et al. (2017) | 1870 - 2020 | Baseline source, overlaps with base year 2018 |



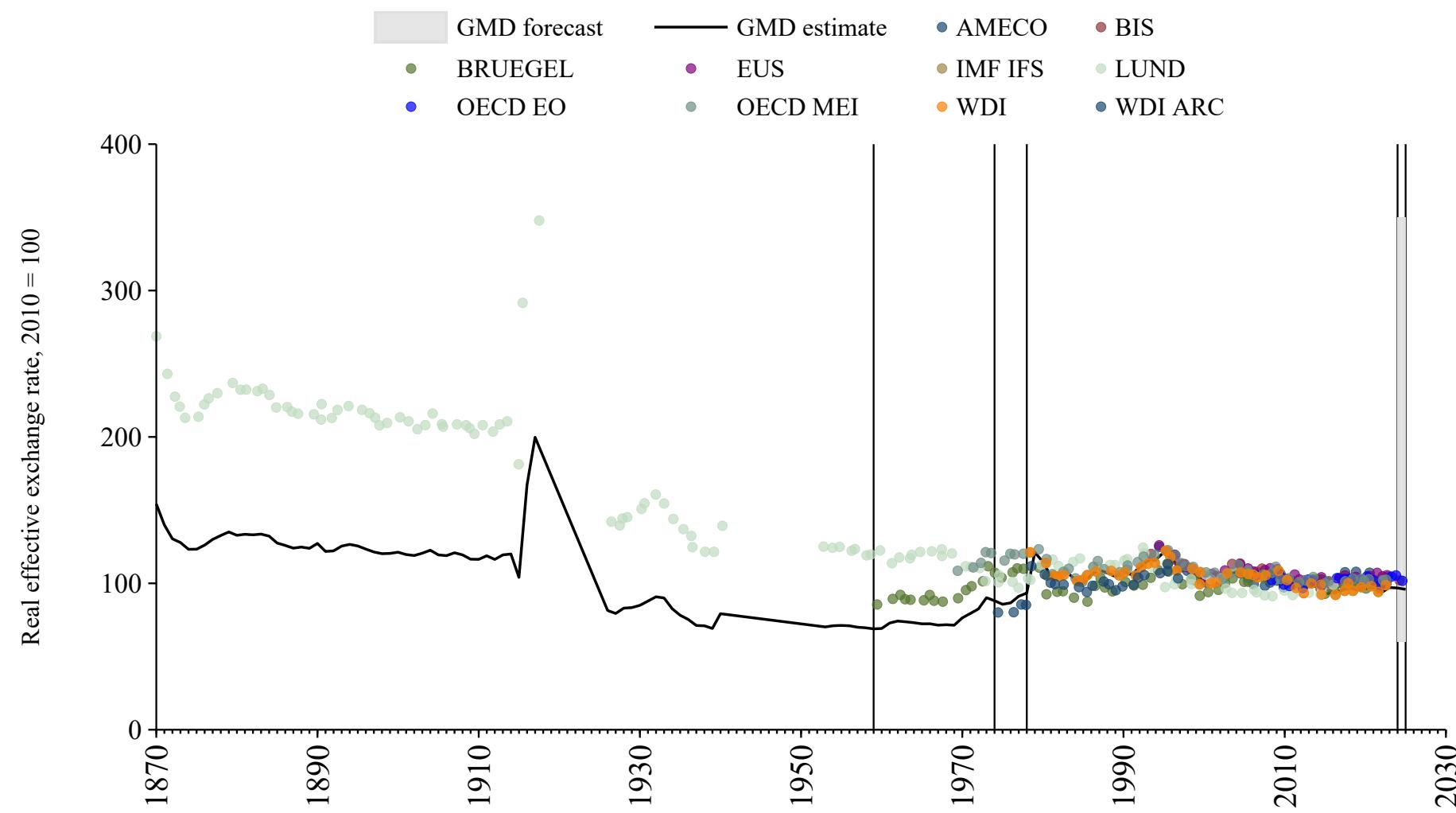
## Money supply (M2)

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Jordà et al. (2017) | 1870 - 2020 | Baseline source, overlaps with base year 2018 |



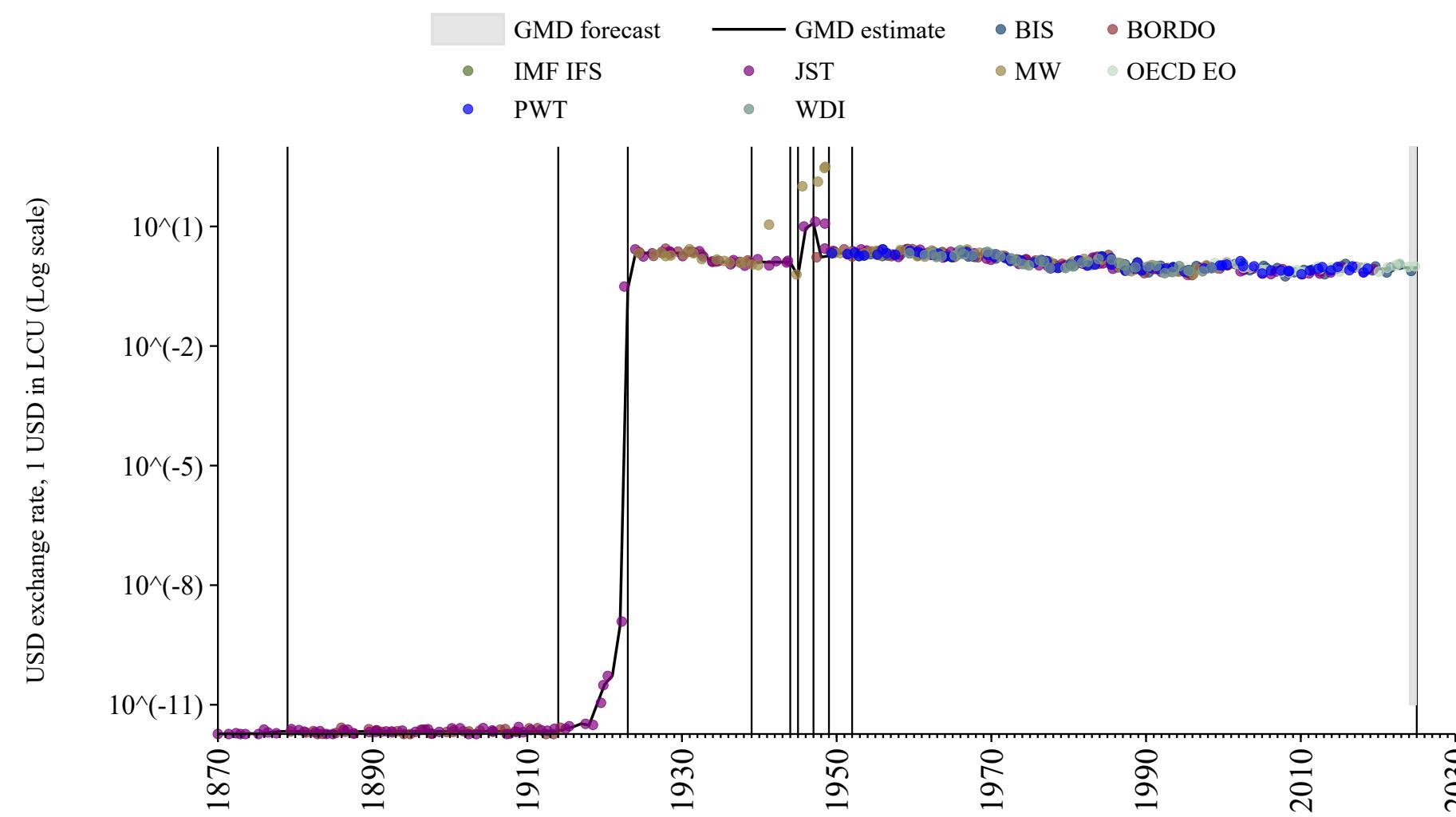
## Real effective exchange rate

| Source                                    | Time span   | Notes   |
|---|-------------|---|
| Ljungberg (2019)                          | 1870 - 1959 | Spliced using overlapping data in 1960: (ratio = 57.4%).  |
| Darvas (2021)                             | 1960 - 1974 | Spliced using overlapping data in 1975: (ratio = 80.9%).  |
| World Bank (Archives) (1999)              | 1975 - 1978 | Spliced using overlapping data in 1979: (ratio = 106.9%). |
| World Bank (2024)                         | 1979 - 2023 | Baseline source, overlaps with base year 2018             |
| Bank for International Settlements (2024) | 2024 - 2024 | Spliced using overlapping data in 2025: (ratio = 96.8%).  |
| OECD Economic Outlook (2024)              | 2025 - 2025 | Spliced using overlapping data in 2026: (ratio = 92.9%).  |



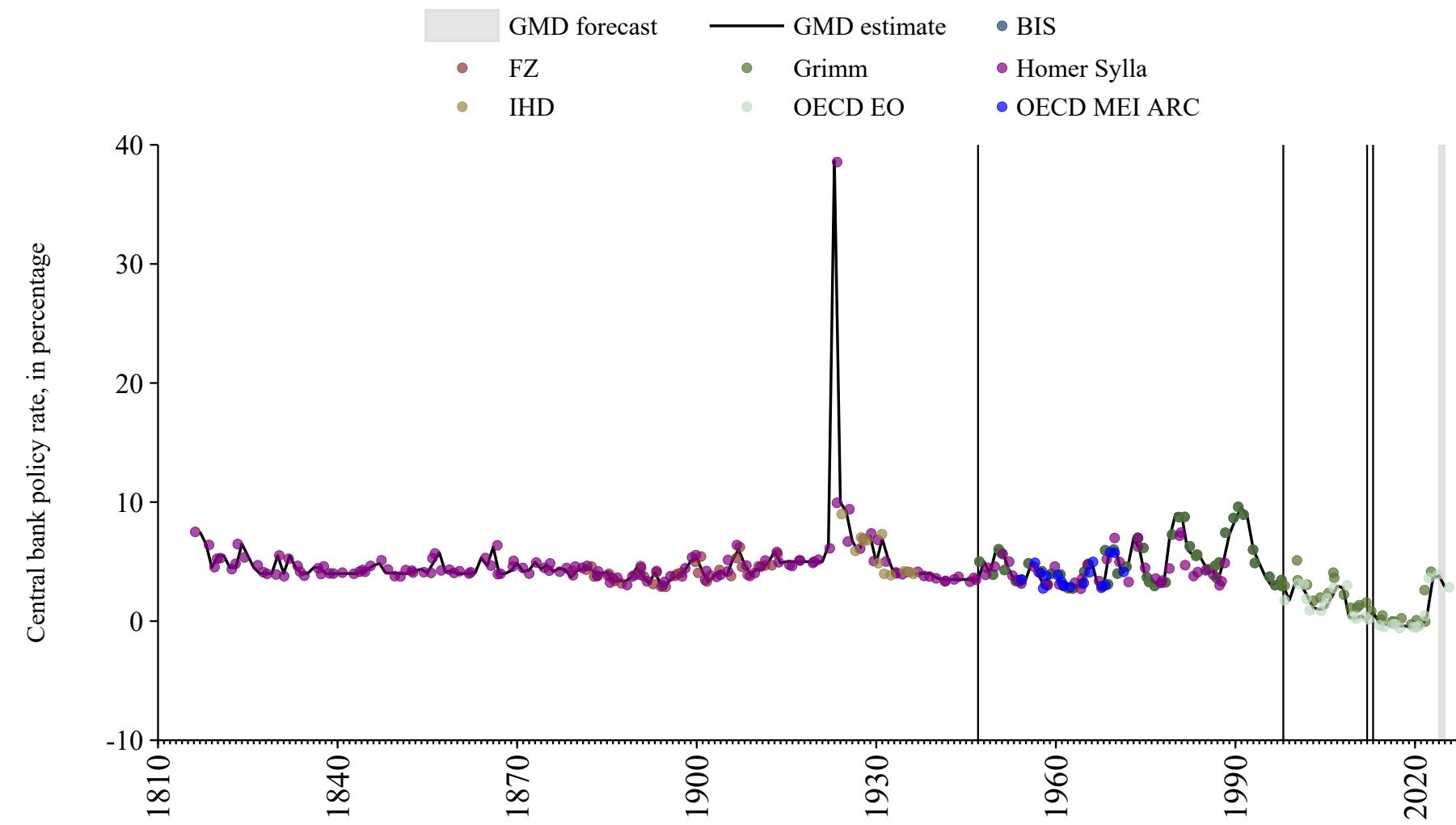
## USD exchange rate

| Source                                    | Time span   | Notes   |
|---|-------------|---|
| Jordà et al. (2017)                       | 1870 - 1879 | Spliced using overlapping data in 1880        |
| Bordo et al. (2001)                       | 1880 - 1914 | Spliced using overlapping data in 1915        |
| Jordà et al. (2017)                       | 1915 - 1923 | Spliced using overlapping data in 1924        |
| Bordo et al. (2001)                       | 1924 - 1939 | Spliced using overlapping data in 1940        |
| Jordà et al. (2017)                       | 1940 - 1944 | Spliced using overlapping data in 1945        |
| Officer and Williamson (2024)             | 1945 - 1945 | Spliced using overlapping data in 1946        |
| Jordà et al. (2017)                       | 1946 - 1947 | Spliced using overlapping data in 1948        |
| Bordo et al. (2001)                       | 1948 - 1949 | Spliced using overlapping data in 1950        |
| International Monetary Fund (2024b)       | 1950 - 1952 | Spliced using overlapping data in 1953        |
| Bank for International Settlements (2024) | 1953 - 2024 | Baseline source, overlaps with base year 2018 |
| OECD Economic Outlook (2024)              | 2025 - 2025 | Spliced using overlapping data in 2026        |



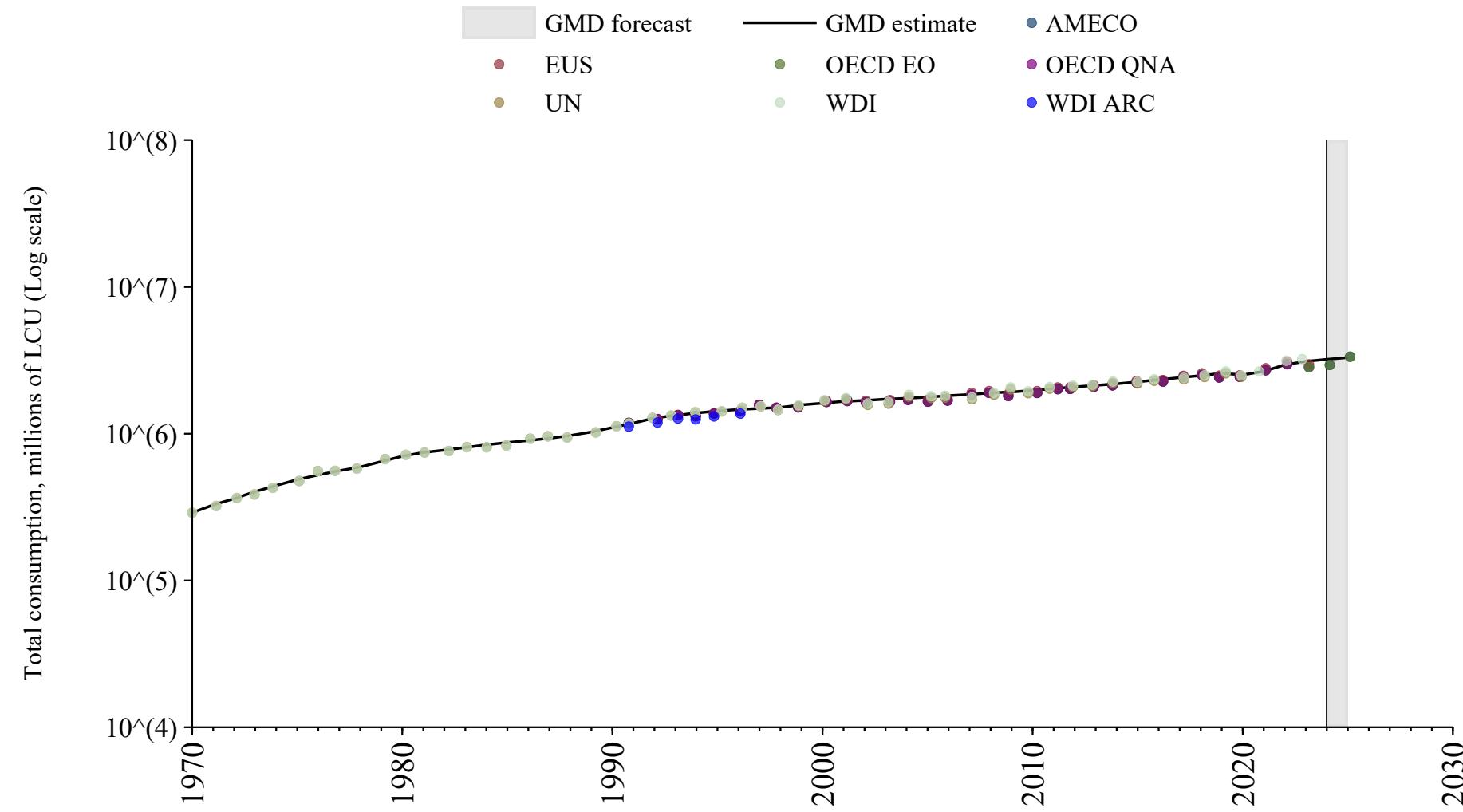
## Central bank policy rate

| Source                                    | Time span   | Notes   |
|---|-------------|---|
| Homer and Sylla (1996)                    | 1817 - 1947 | Spliced using overlapping data in 1948        |
| Bank for International Settlements (2024) | 1948 - 1998 | Spliced using overlapping data in 1999        |
| OECD Economic Outlook (2024)              | 1999 - 2012 | Spliced using overlapping data in 2013        |
| Grimm (2024)                              | 2013 - 2013 | Spliced using overlapping data in 2014        |
| OECD Economic Outlook (2024)              | 2014 - 2025 | Baseline source, overlaps with base year 2018 |



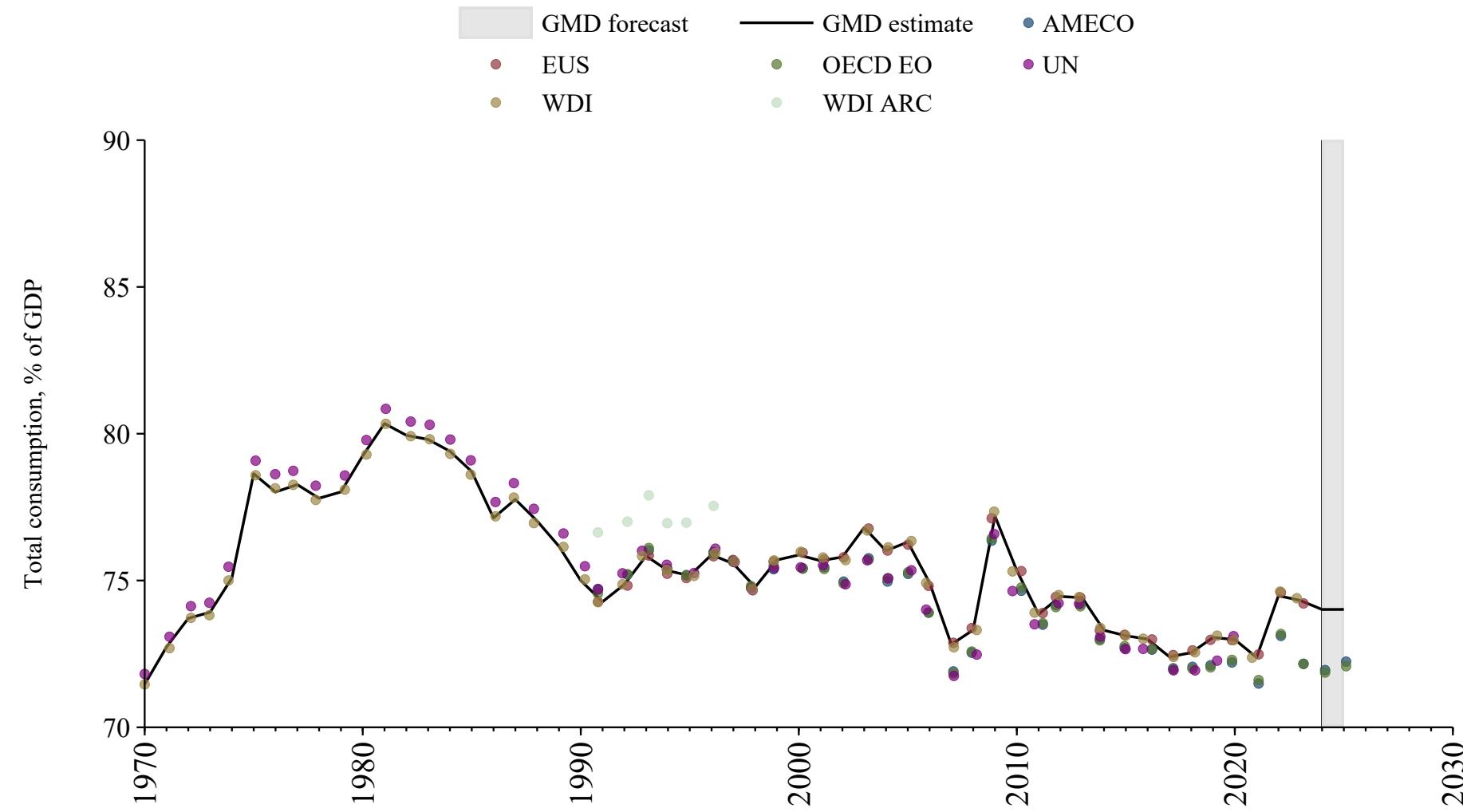
## Total consumption

| Source                                       | Time span   | Notes   |
|--|-------------|---|
| <a href="#">World Bank (2024)</a>            | 1970 - 2023 | Baseline source, overlaps with base year 2018             |
| <a href="#">OECD Economic Outlook (2024)</a> | 2024 - 2025 | Spliced using overlapping data in 2026: (ratio = 104.4%). |



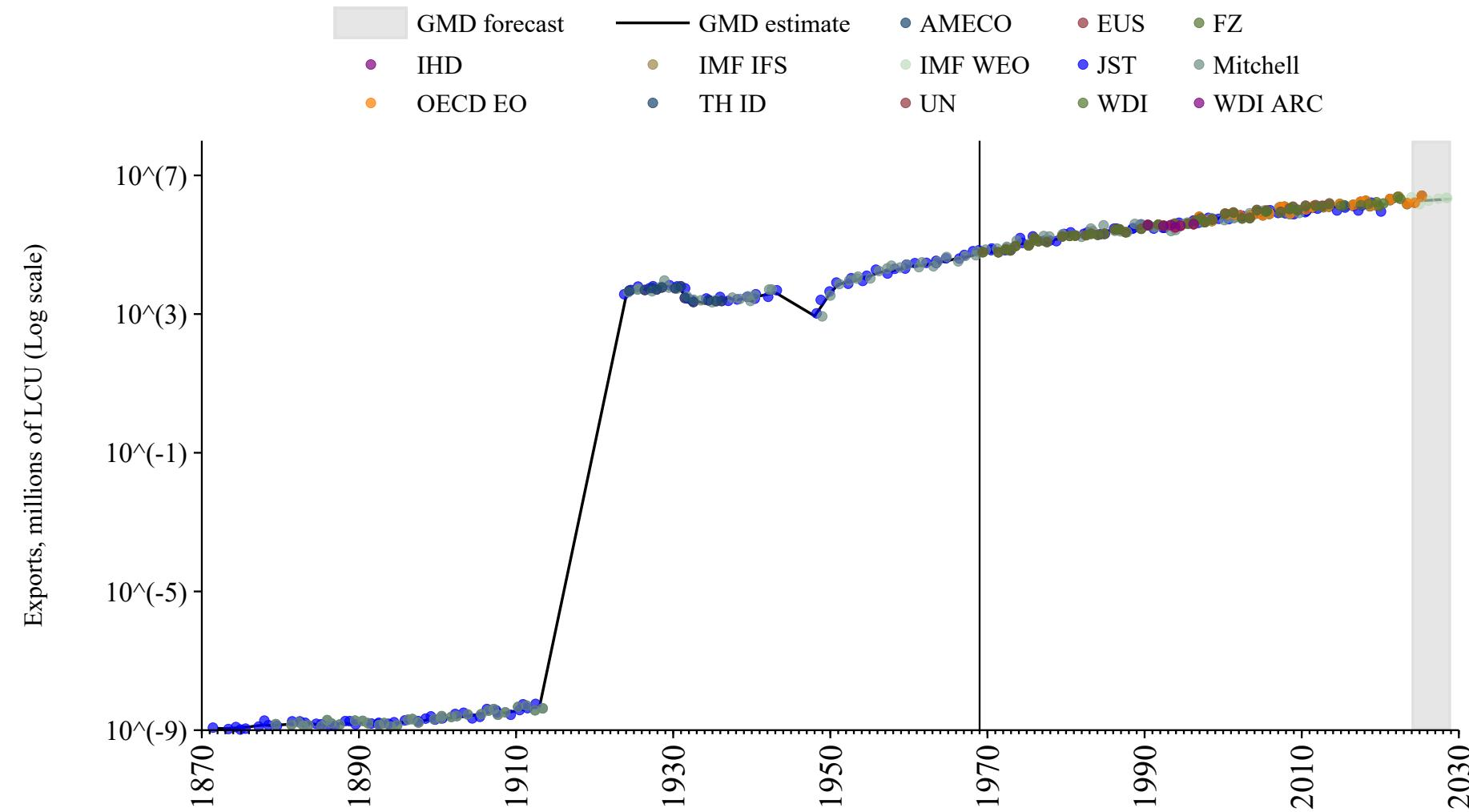
## Total consumption to GDP ratio

| Source                       | Time span   | Notes   |
|------------------------------|-------------|---|
| World Bank (2024)            | 1970 - 2023 | Baseline source, overlaps with base year 2018             |
| OECD Economic Outlook (2024) | 2024 - 2025 | Spliced using overlapping data in 2026: (ratio = 102.9%). |



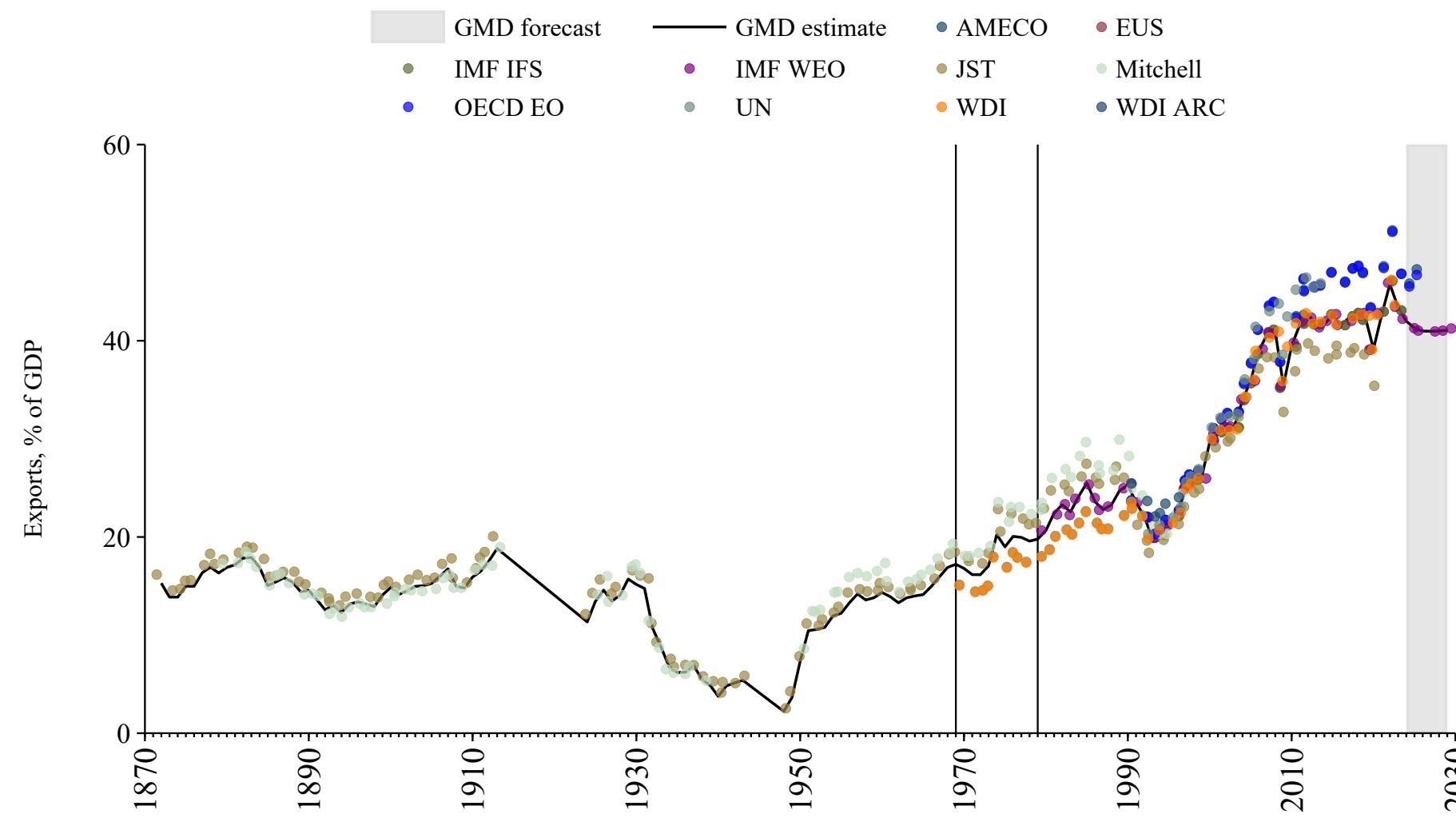
## Exports

| Source              | Time span   | Notes  |
|---------------------|-------------|--|
| Jordà et al. (2017) | 1872 - 1969 | Spliced using overlapping data in 1970: (ratio = 95.3%). |
| WEO (2024)          | 1970 - 2029 | Baseline source, overlaps with base year 2018            |



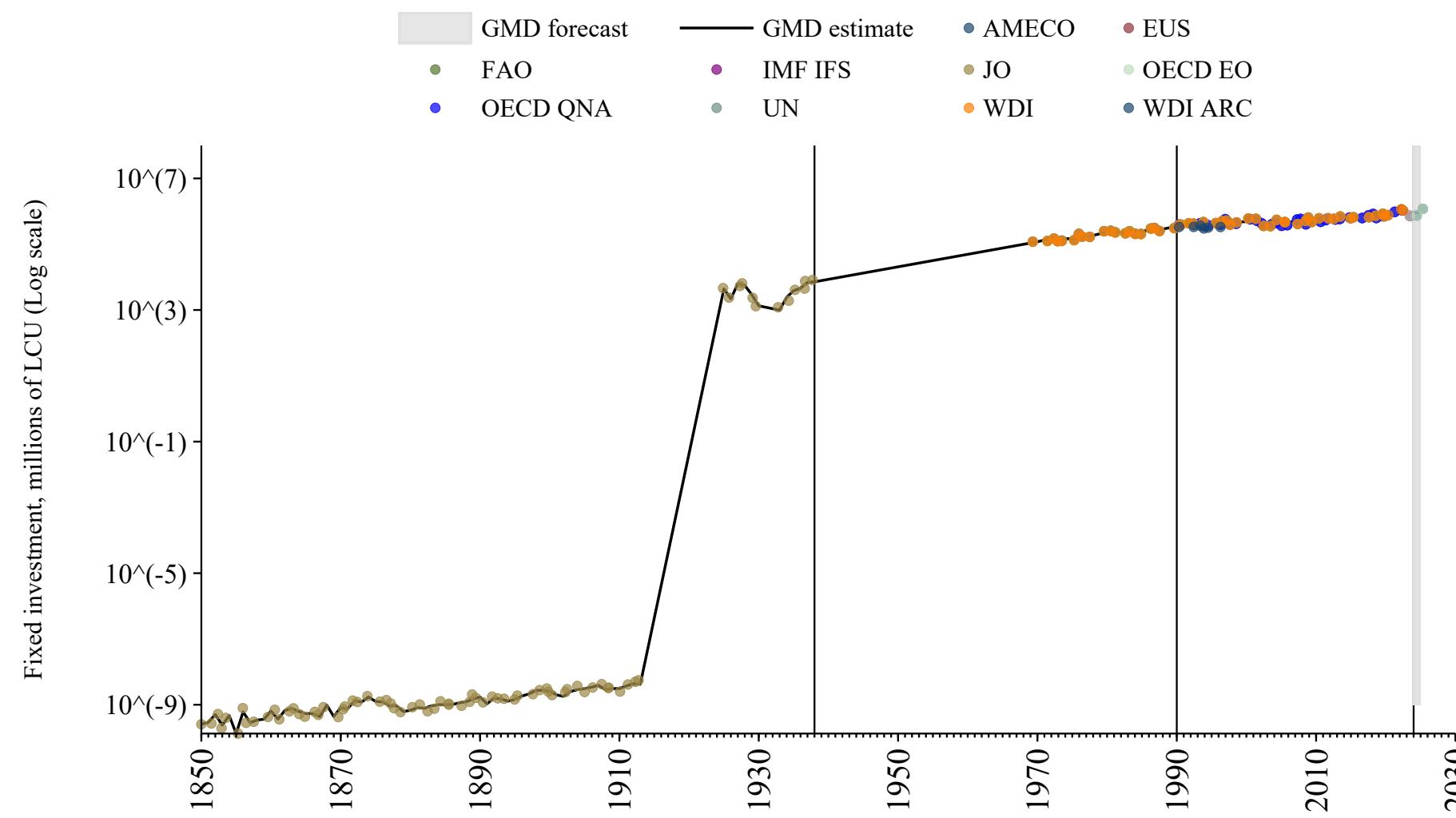
## Exports to GDP ratio

| Source                | Time span   | Notes  |
|-----------------------|-------------|--|
| Jordà et al. (2017)   | 1872 - 1969 | Spliced using overlapping data in 1970: (ratio = 94.6%). |
| United Nations (2024) | 1970 - 1979 | Spliced using overlapping data in 1980: (ratio = 111%).  |
| WEO (2024)            | 1980 - 2029 | Baseline source, overlaps with base year 2018            |



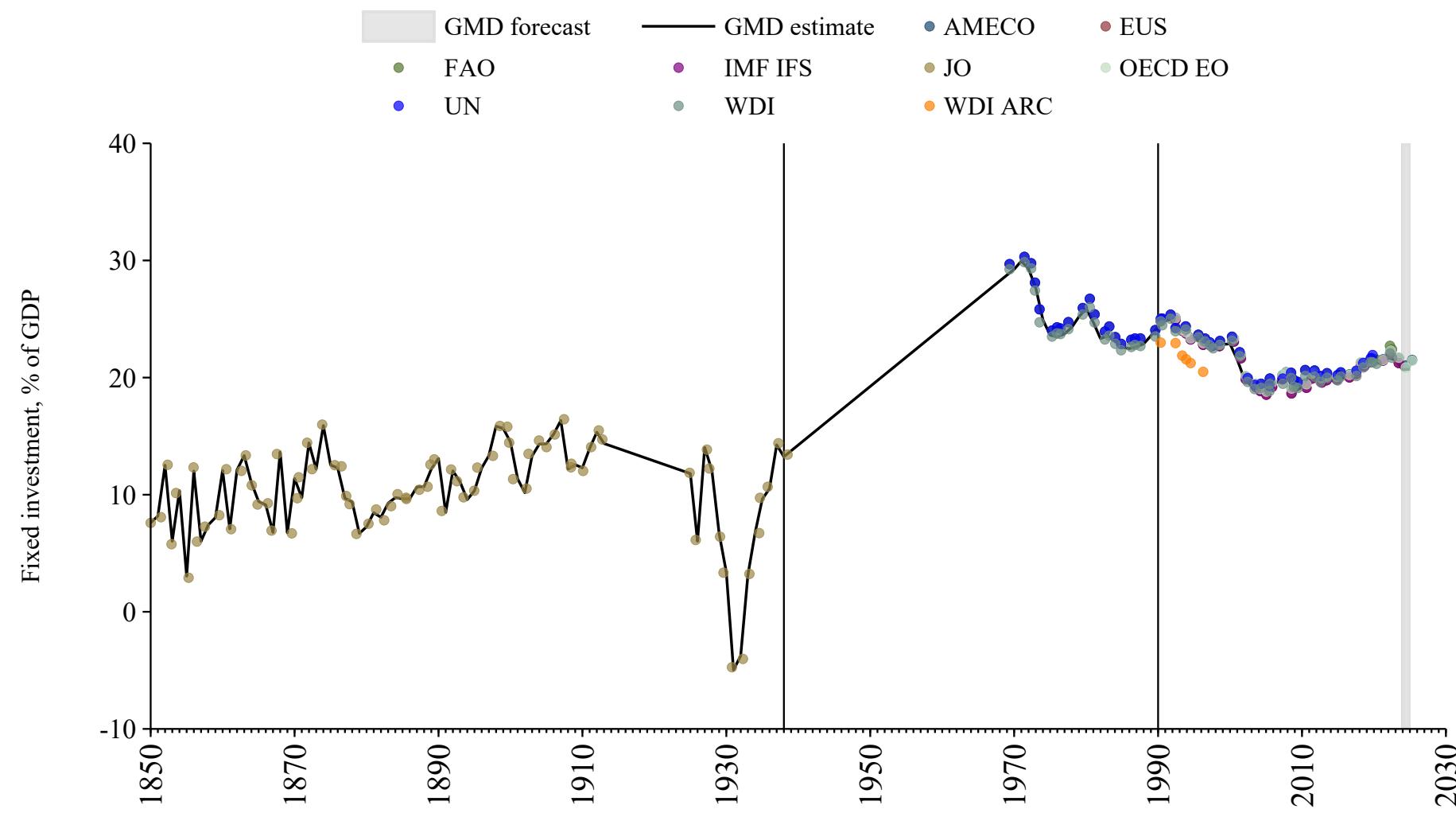
## Fixed investment

| Source                       | Time span   | Notes  |
|------------------------------|-------------|--|
| Jones and Obstfeld (1997)    | 1850 - 1938 | Spliced using overlapping data in 1939                   |
| World Bank (2024)            | 1939 - 1990 | Spliced using overlapping data in 1991                   |
| Eurostat (2024)              | 1991 - 2023 | Baseline source, overlaps with base year 2018            |
| OECD Economic Outlook (2024) | 2024 - 2025 | Spliced using overlapping data in 2026: (ratio = 99.5%). |



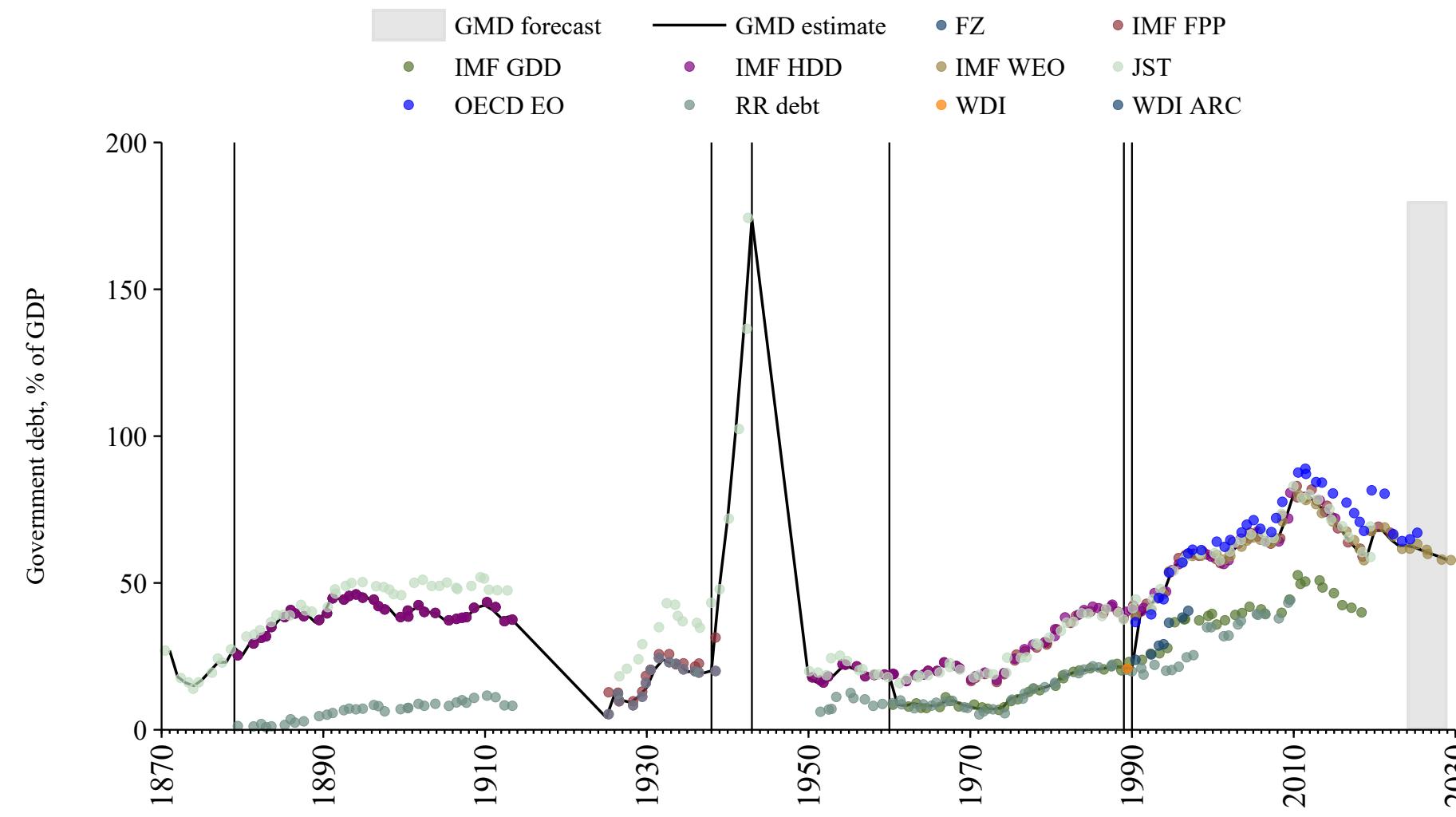
## Fixed investment to GDP ratio

| Source                       | Time span   | Notes  |
|------------------------------|-------------|--|
| Jones and Obstfeld (1997)    | 1850 - 1938 | Spliced using overlapping data in 1939                 |
| World Bank (2024)            | 1939 - 1990 | Spliced using overlapping data in 1991                 |
| Eurostat (2024)              | 1991 - 2023 | Baseline source, overlaps with base year 2018          |
| OECD Economic Outlook (2024) | 2024 - 2025 | Spliced using overlapping data in 2026: (ratio = 98%). |



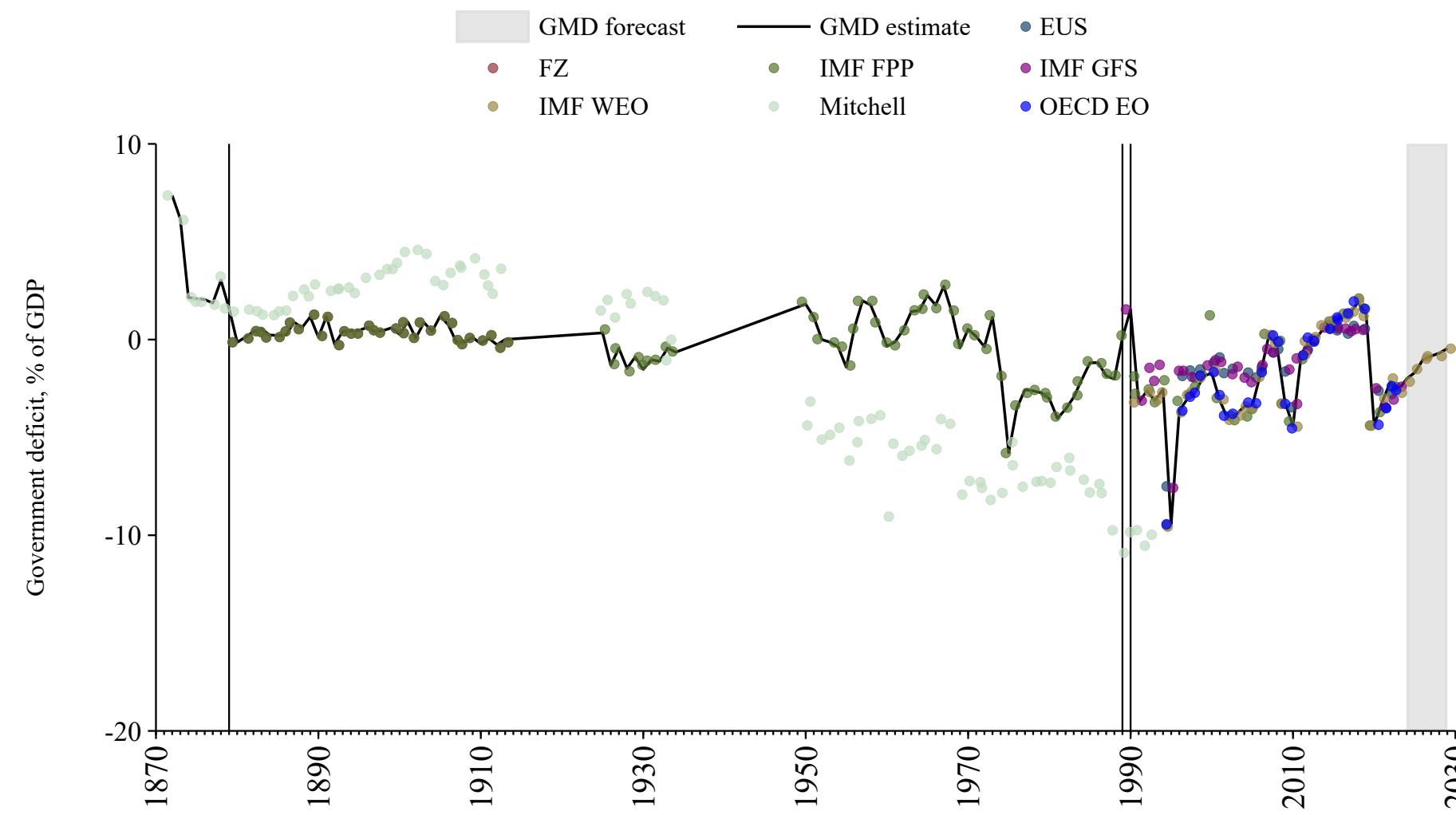
## Government debt

| Source                             | Time span   | Notes   |
|------------------------------------|-------------|---|
| Jordà et al. (2017)                | 1871 - 1879 | Spliced using overlapping data in 1880        |
| International Monetary Fund (2010) | 1880 - 1938 | Spliced using overlapping data in 1939        |
| Jordà et al. (2017)                | 1939 - 1943 | Spliced using overlapping data in 1944        |
| International Monetary Fund (2010) | 1944 - 1960 | Spliced using overlapping data in 1961        |
| Mbaye et al. (2018)                | 1961 - 1989 | Spliced using overlapping data in 1990        |
| World Bank (2024)                  | 1990 - 1990 | Spliced using overlapping data in 1991        |
| WEO (2024)                         | 1991 - 2029 | Baseline source, overlaps with base year 2018 |



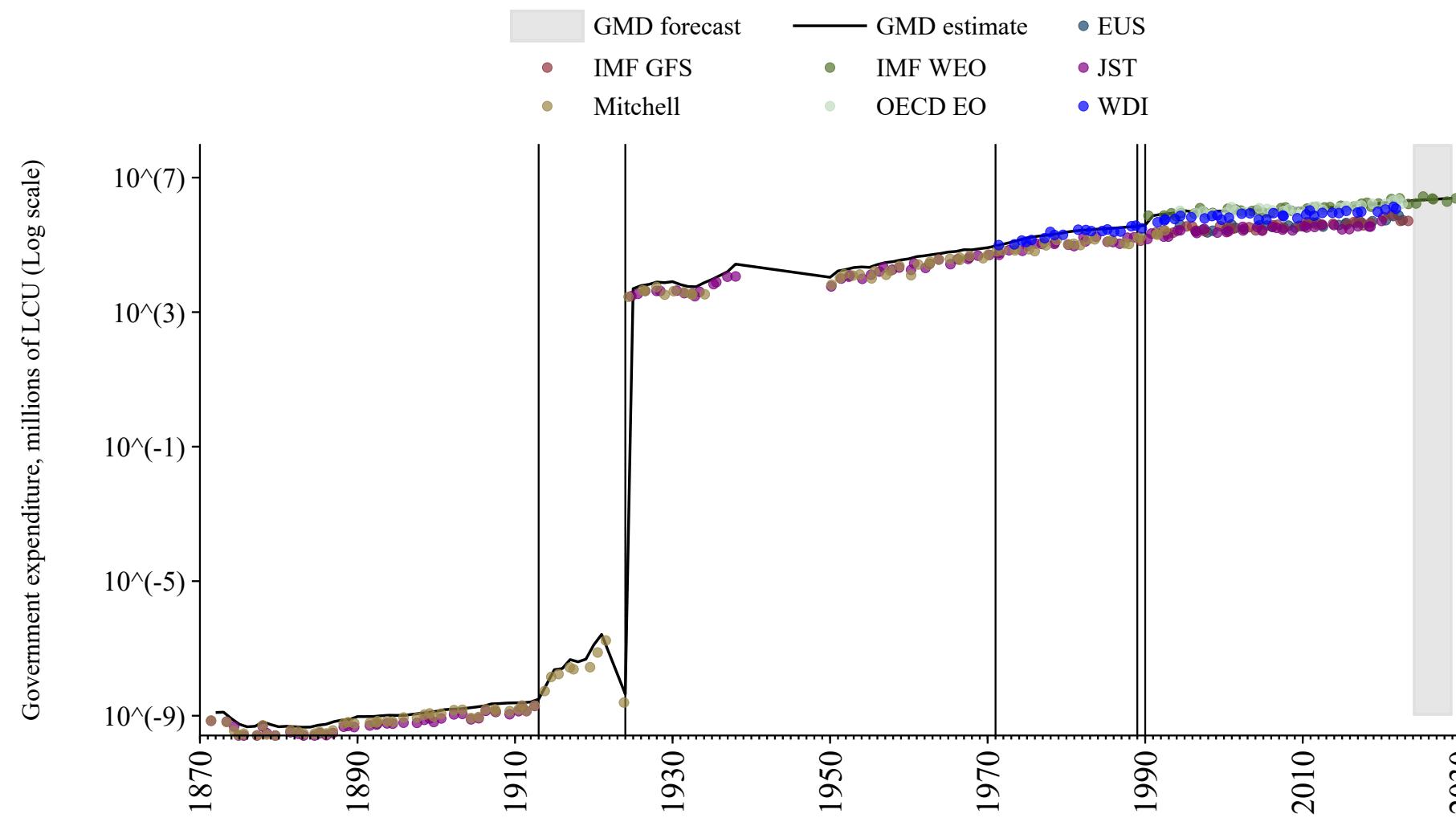
## Government deficit

| Source                              | Time span   | Notes   |
|-------------------------------------|-------------|---|
| Mitchell (2013)                     | 1872 - 1879 | Spliced using overlapping data in 1880        |
| Mauro et al. (2015)                 | 1880 - 1951 | Spliced using overlapping data in 1952        |
| Mitchell (2013)                     | 1952 - 1952 | Spliced using overlapping data in 1953        |
| Mauro et al. (2015)                 | 1953 - 1989 | Spliced using overlapping data in 1990        |
| International Monetary Fund (2024a) | 1990 - 1990 | Spliced using overlapping data in 1991        |
| WEO (2024)                          | 1991 - 2029 | Baseline source, overlaps with base year 2018 |



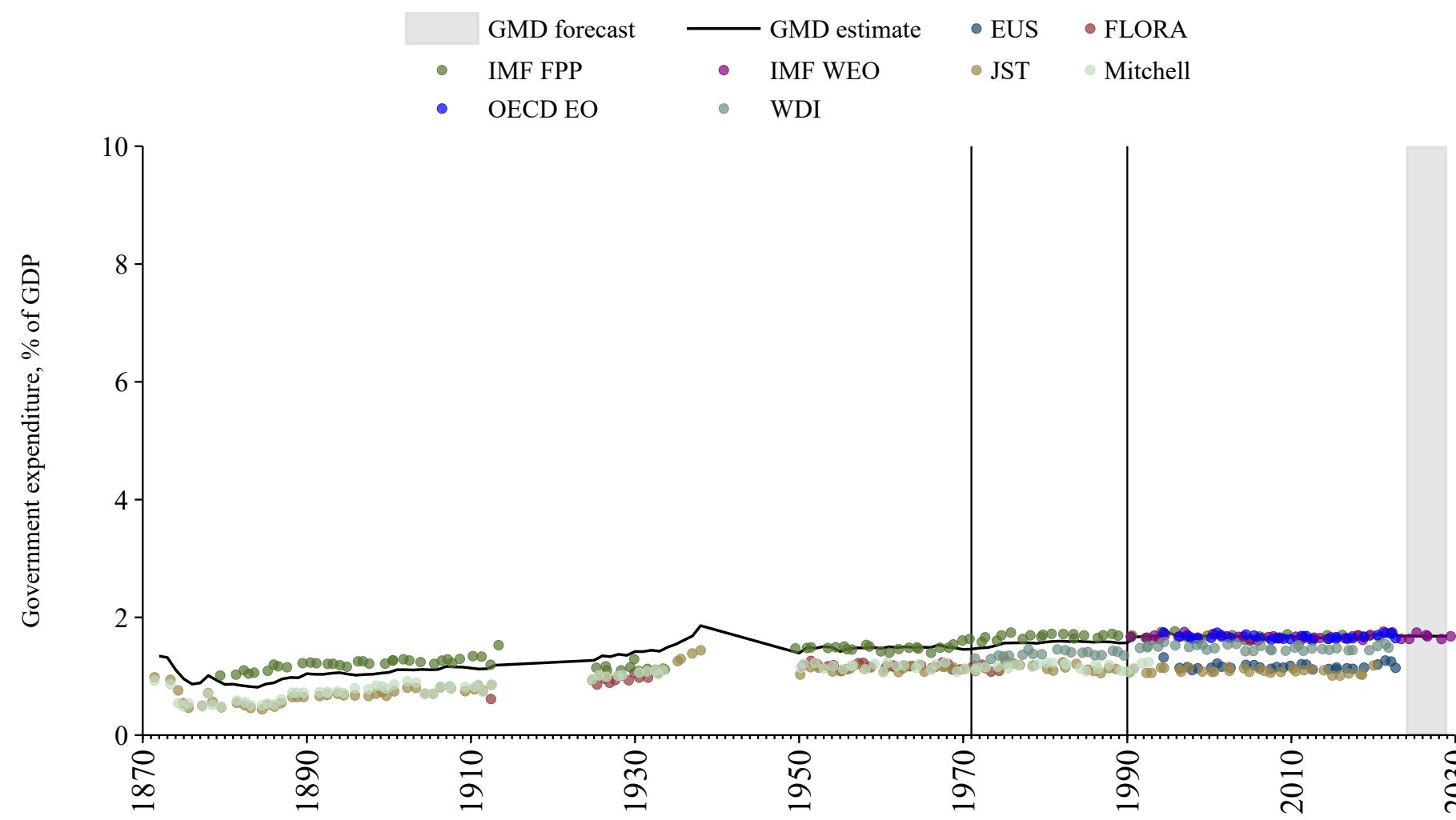
## Government expenditure

| Source                              | Time span   | Notes  |
|-------------------------------------|-------------|--|
| Jordà et al. (2017)                 | 1872 - 1913 | Spliced using overlapping data in 1914: (ratio = 176.8%). Data refers to central government. |
| Mitchell (2013)                     | 1914 - 1924 | Spliced using overlapping data in 1925: (ratio = 171.6%). Data refers to central government. |
| Jordà et al. (2017)                 | 1925 - 1971 | Spliced using overlapping data in 1972: (ratio = 183.3%). Data refers to central government. |
| World Bank (2024)                   | 1972 - 1989 | Spliced using overlapping data in 1990: (ratio = 107%). Data refers to central government.   |
| International Monetary Fund (2024a) | 1990 - 1990 | Spliced using overlapping data in 1991: (ratio = 291.4%).                                    |
| WEO (2024)                          | 1991 - 2029 | Baseline source, overlaps with base year 2018 Data refers to general government.             |



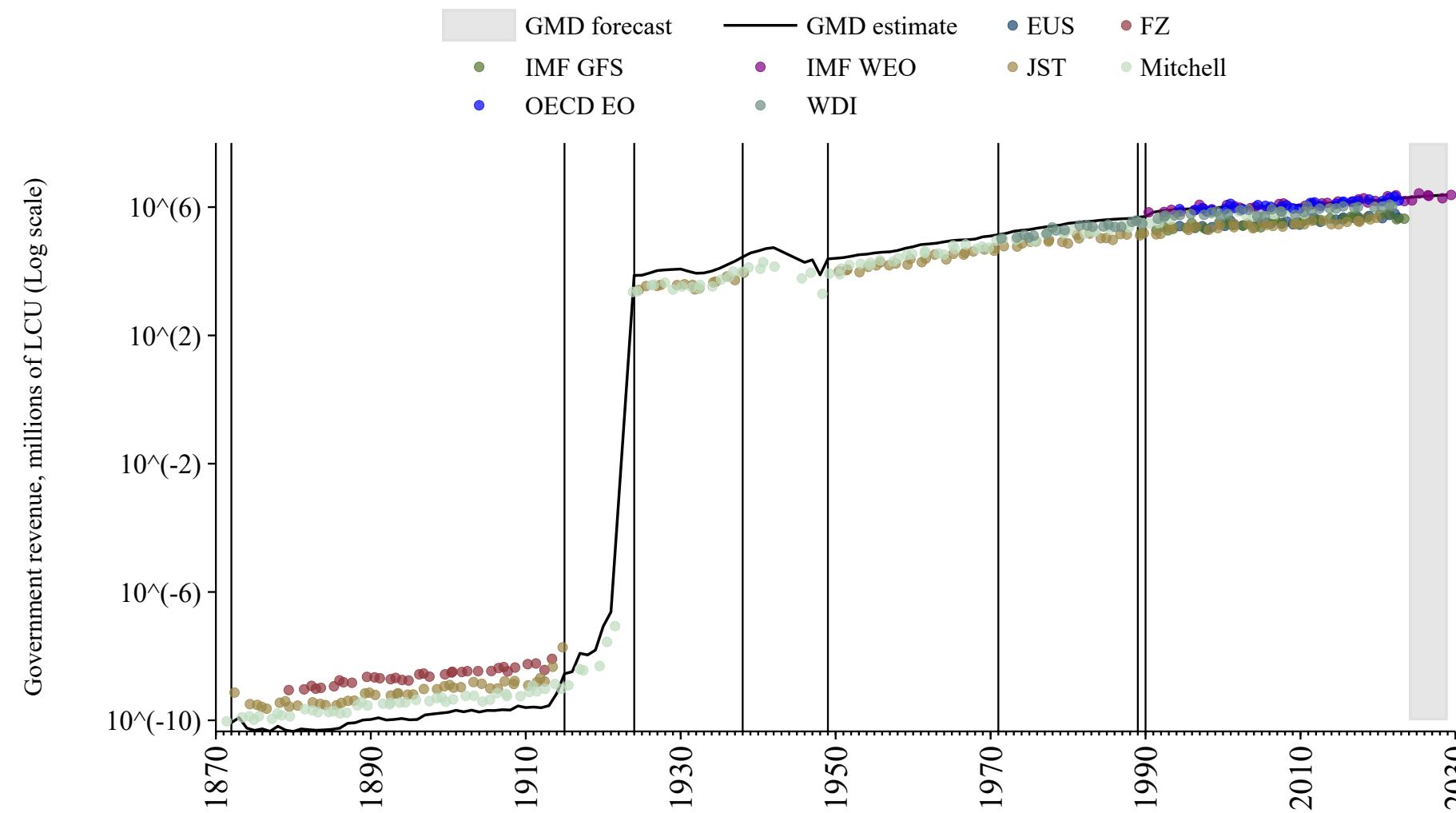
## Government expenditure to GDP ratio

| Source              | Time span   | Notes  |
|---------------------|-------------|--|
| Jordà et al. (2017) | 1872 - 1971 | Spliced using overlapping data in 1972 Data refers to central government.        |
| World Bank (2024)   | 1972 - 1990 | Spliced using overlapping data in 1991 Data refers to central government.        |
| WEO (2024)          | 1991 - 2029 | Baseline source, overlaps with base year 2018 Data refers to general government. |



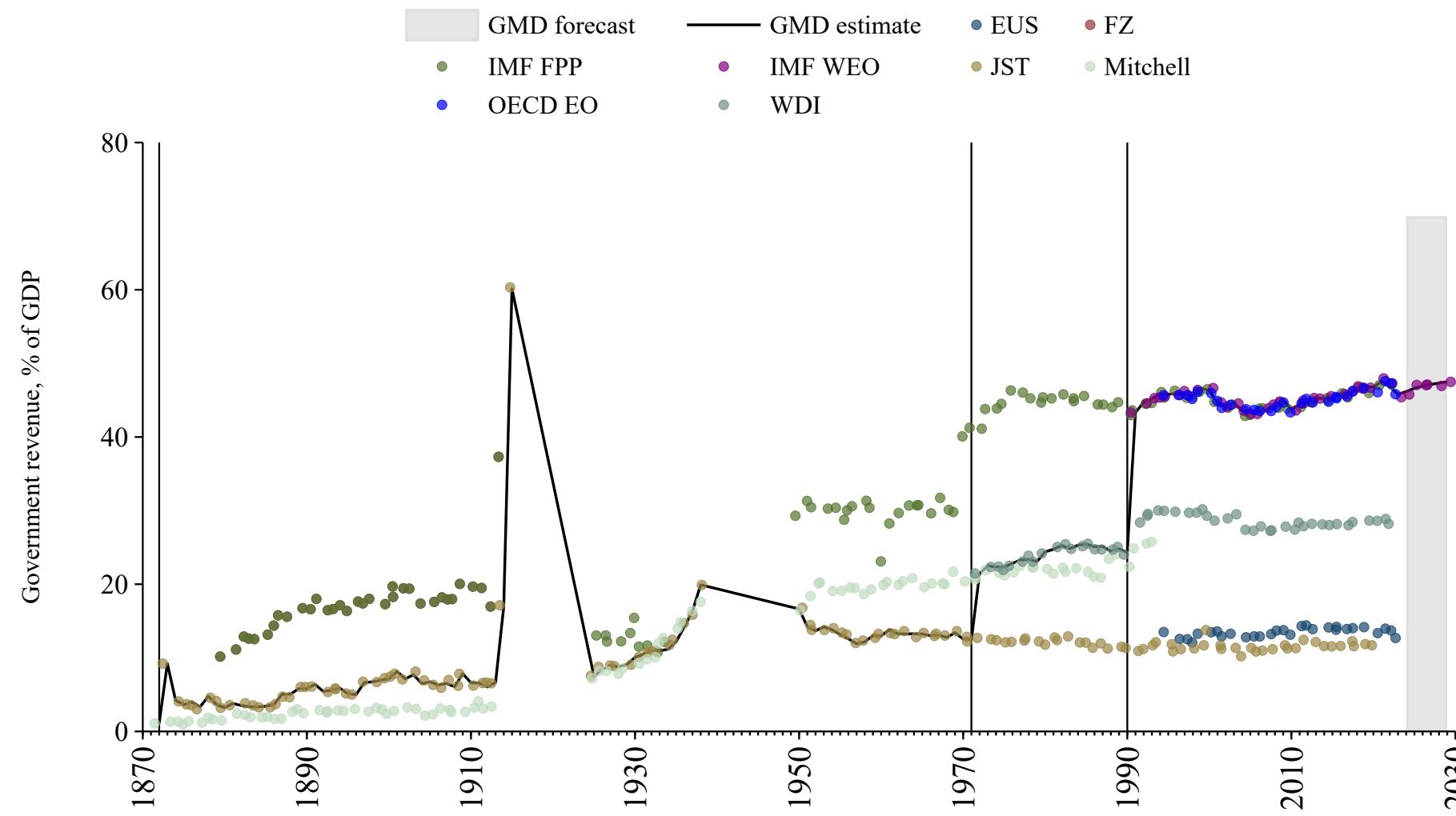
## Government revenue

| Source                              | Time span   | Notes  |
|-------------------------------------|-------------|--|
| Mitchell (2013)                     | 1872 - 1872 | Spliced using overlapping data in 1873: (ratio = 90.2%). Data refers to central government.  |
| Jordà et al. (2017)                 | 1873 - 1915 | Spliced using overlapping data in 1916: (ratio = 16.6%). Data refers to central government.  |
| Mitchell (2013)                     | 1916 - 1924 | Spliced using overlapping data in 1925: (ratio = 312.2%). Data refers to central government. |
| Jordà et al. (2017)                 | 1925 - 1938 | Spliced using overlapping data in 1939: (ratio = 303.2%). Data refers to central government. |
| Mitchell (2013)                     | 1939 - 1949 | Spliced using overlapping data in 1950: (ratio = 308.7%). Data refers to central government. |
| Jordà et al. (2017)                 | 1950 - 1971 | Spliced using overlapping data in 1972: (ratio = 277.7%). Data refers to central government. |
| World Bank (2024)                   | 1972 - 1989 | Spliced using overlapping data in 1990: (ratio = 143.9%). Data refers to central government. |
| International Monetary Fund (2024a) | 1990 - 1990 | Spliced using overlapping data in 1991: (ratio = 335.6%). Data refers to central government. |
| WEO (2024)                          | 1991 - 2029 | Baseline source, overlaps with base year 2018 Data refers to general government.             |



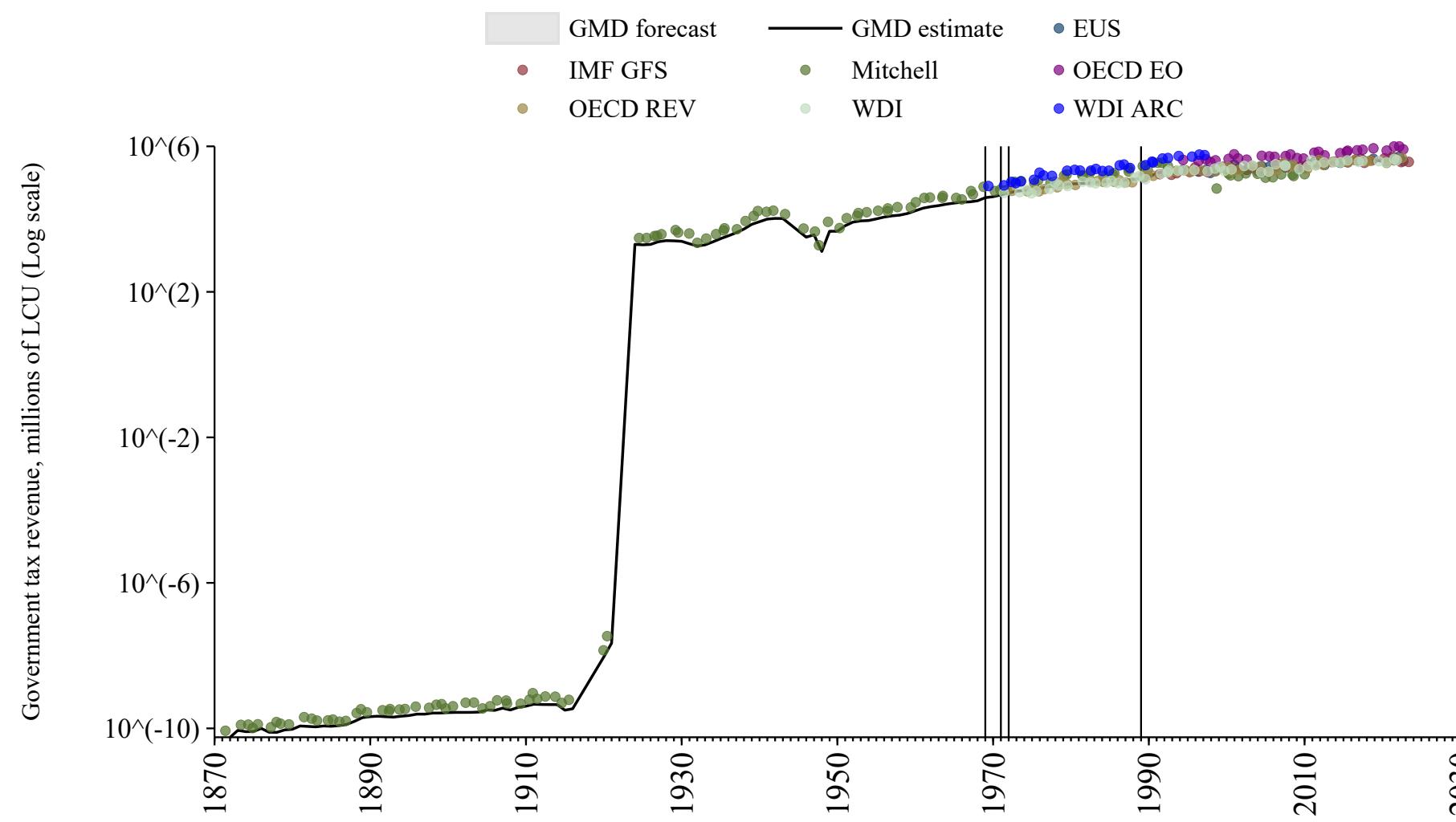
## Government revenue to GDP ratio

| Source              | Time span   | Notes  |
|---------------------|-------------|--|
| Mitchell (2013)     | 1872 - 1872 | Spliced using overlapping data in 1873 Data refers to central government.        |
| Jordà et al. (2017) | 1873 - 1971 | Spliced using overlapping data in 1972 Data refers to central government.        |
| World Bank (2024)   | 1972 - 1990 | Spliced using overlapping data in 1991 Data refers to central government.        |
| WEO (2024)          | 1991 - 2029 | Baseline source, overlaps with base year 2018 Data refers to general government. |



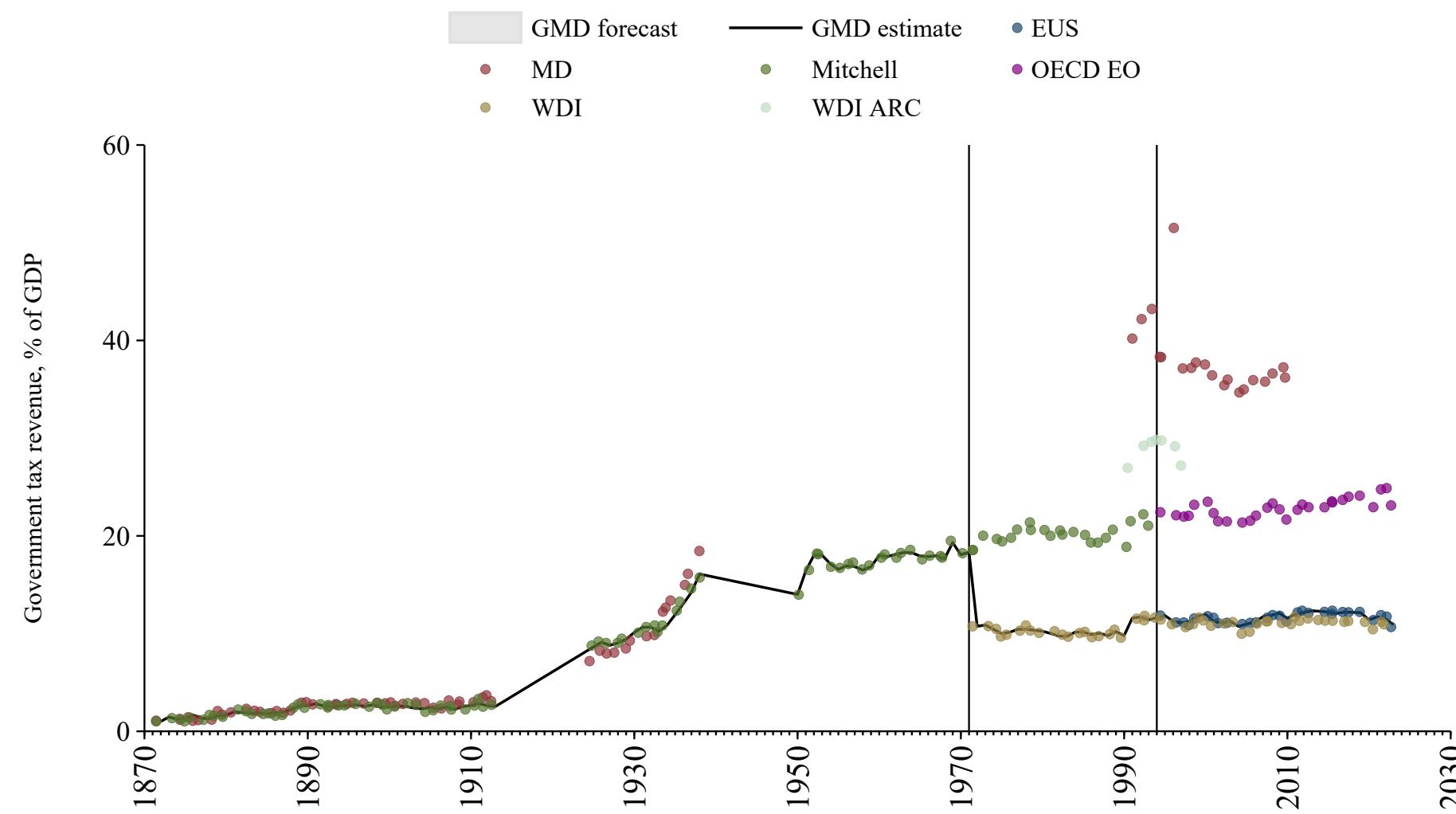
## Government tax revenue

| Source                              | Time span   | Notes   |
|-------------------------------------|-------------|---|
| Mitchell (2013)                     | 1872 - 1969 | Spliced using overlapping data in 1970: (ratio = 66%). Data refers to central government.   |
| World Bank (Archives) (1999)        | 1970 - 1971 | Spliced using overlapping data in 1972: (ratio = 50.9%). Data refers to central government. |
| World Bank (2024)                   | 1972 - 1972 | Spliced using overlapping data in 1973: (ratio = 98.8%). Data refers to central government. |
| OECD (2024d)                        | 1973 - 1989 | Spliced using overlapping data in 1990: (ratio = 98%). Data refers to general government.   |
| International Monetary Fund (2024a) | 1990 - 2023 | Baseline source, overlaps with base year 2018 Data refers to central government.            |



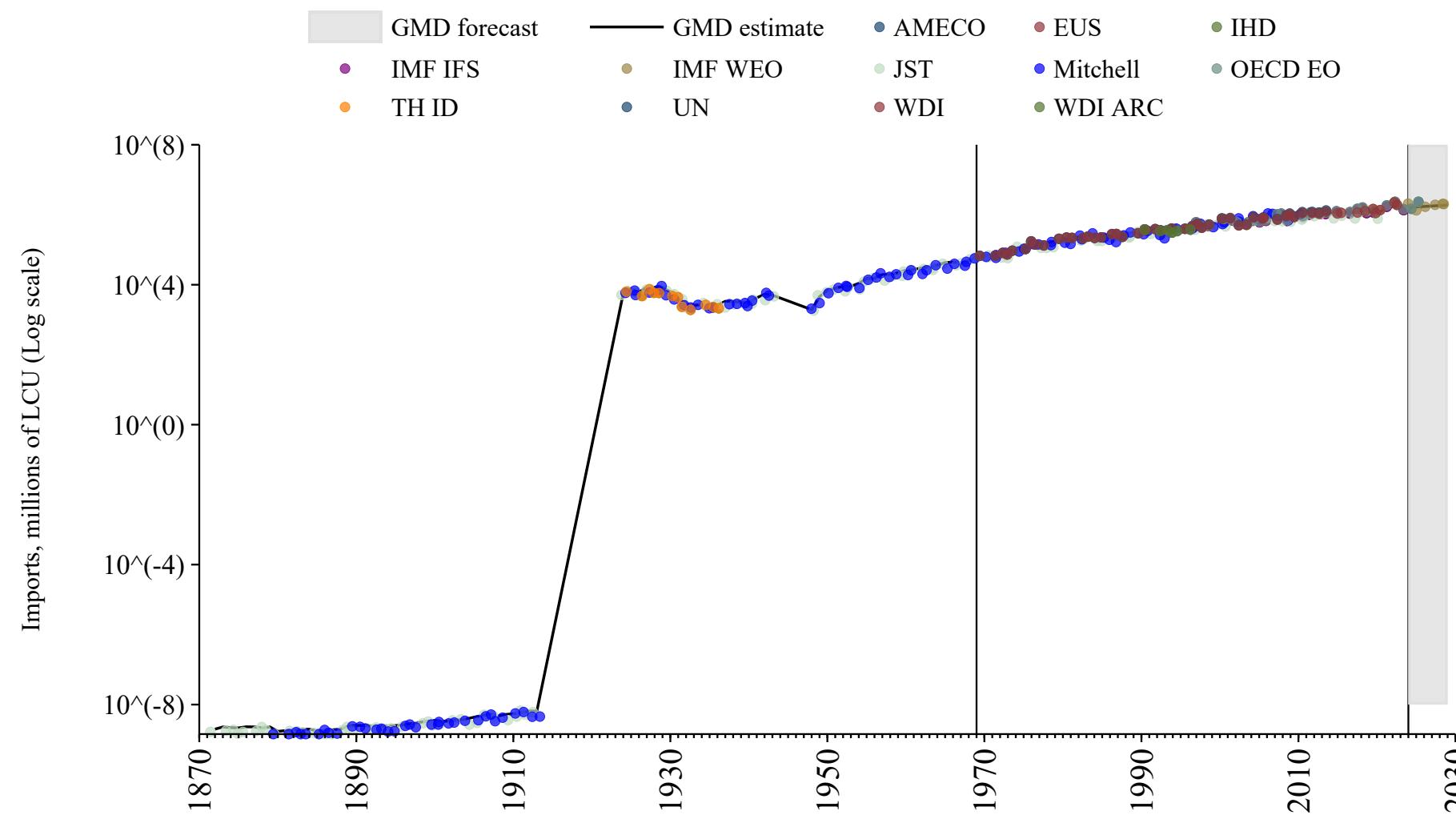
## Government tax revenue to GDP ratio

| Source            | Time span   | Notes  |
|-------------------|-------------|--|
| Mitchell (2013)   | 1872 - 1971 | Spliced using overlapping data in 1972 Data refers to central government.        |
| World Bank (2024) | 1972 - 1994 | Spliced using overlapping data in 1995 Data refers to central government.        |
| Eurostat (2024)   | 1995 - 2023 | Baseline source, overlaps with base year 2018 Data refers to central government. |



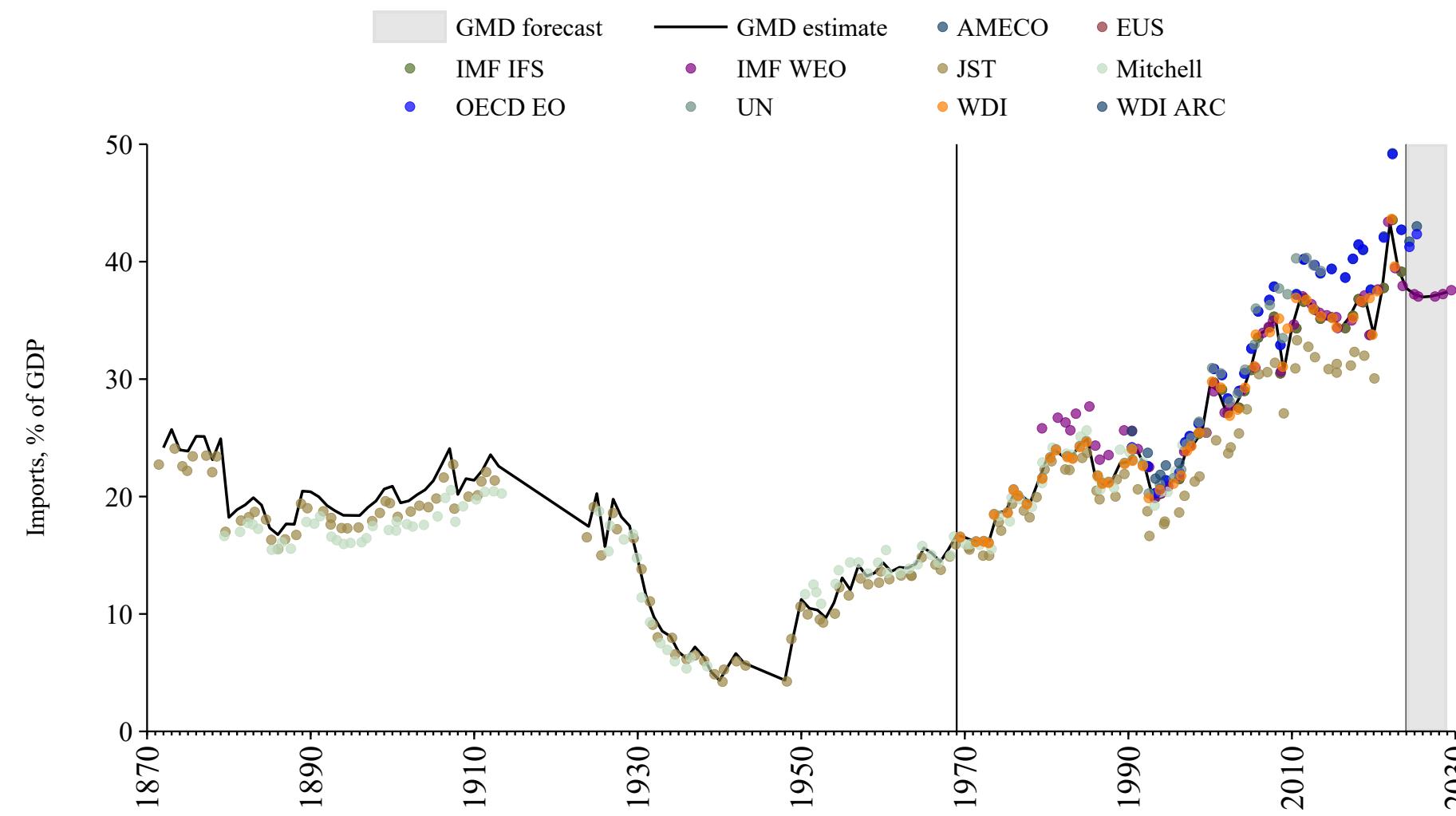
## Imports

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Jordà et al. (2017) | 1872 - 1969 | Spliced using overlapping data in 1970: (ratio = 119.5%). |
| World Bank (2024)   | 1970 - 2023 | Baseline source, overlaps with base year 2018             |
| WEO (2024)          | 2024 - 2029 | Spliced using overlapping data in 2030                    |



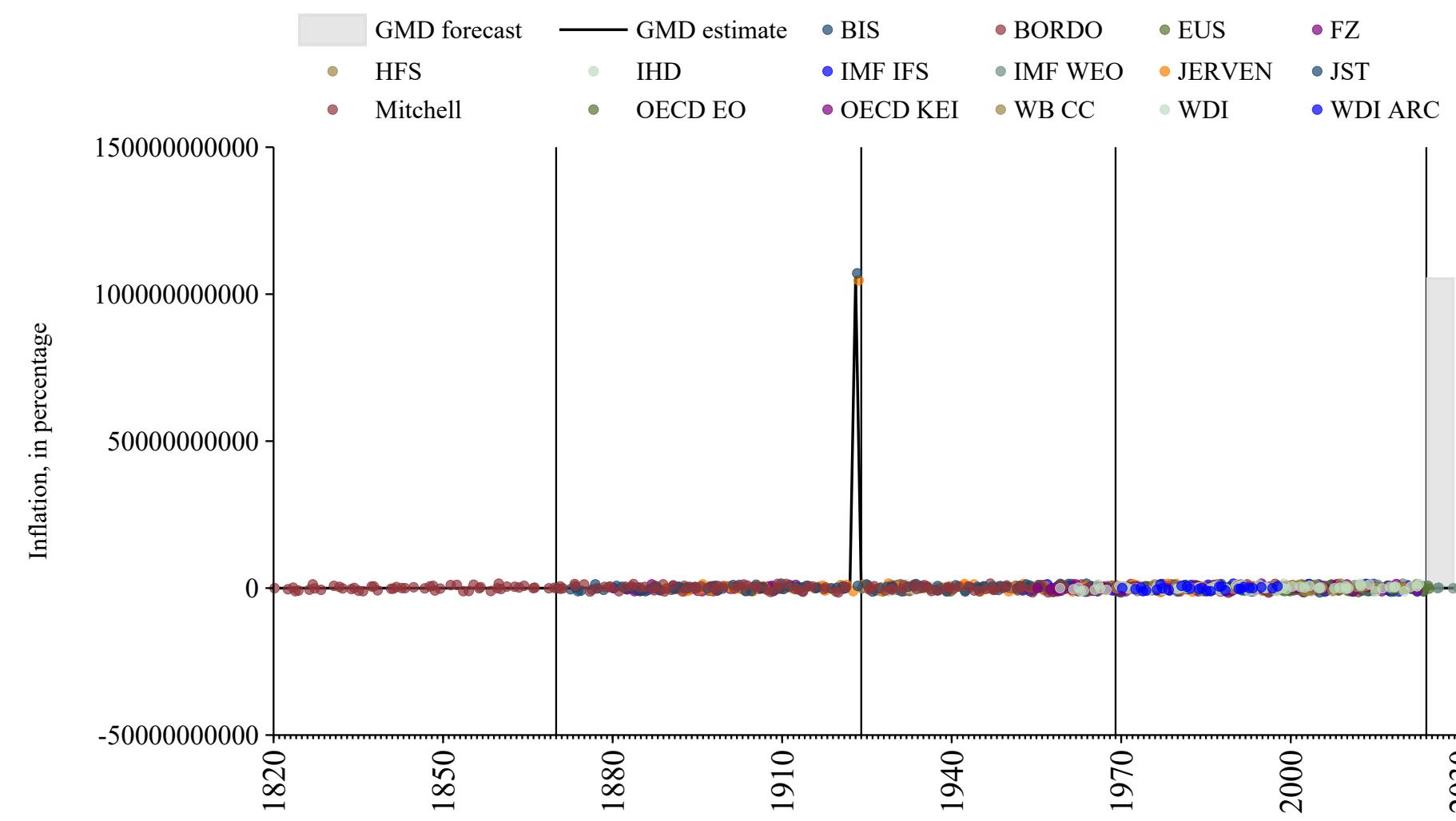
## Imports to GDP ratio

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Jordà et al. (2017) | 1872 - 1969 | Spliced using overlapping data in 1970: (ratio = 106.3%). |
| World Bank (2024)   | 1970 - 2023 | Baseline source, overlaps with base year 2018             |
| WEO (2024)          | 2024 - 2029 | Spliced using overlapping data in 2030                    |



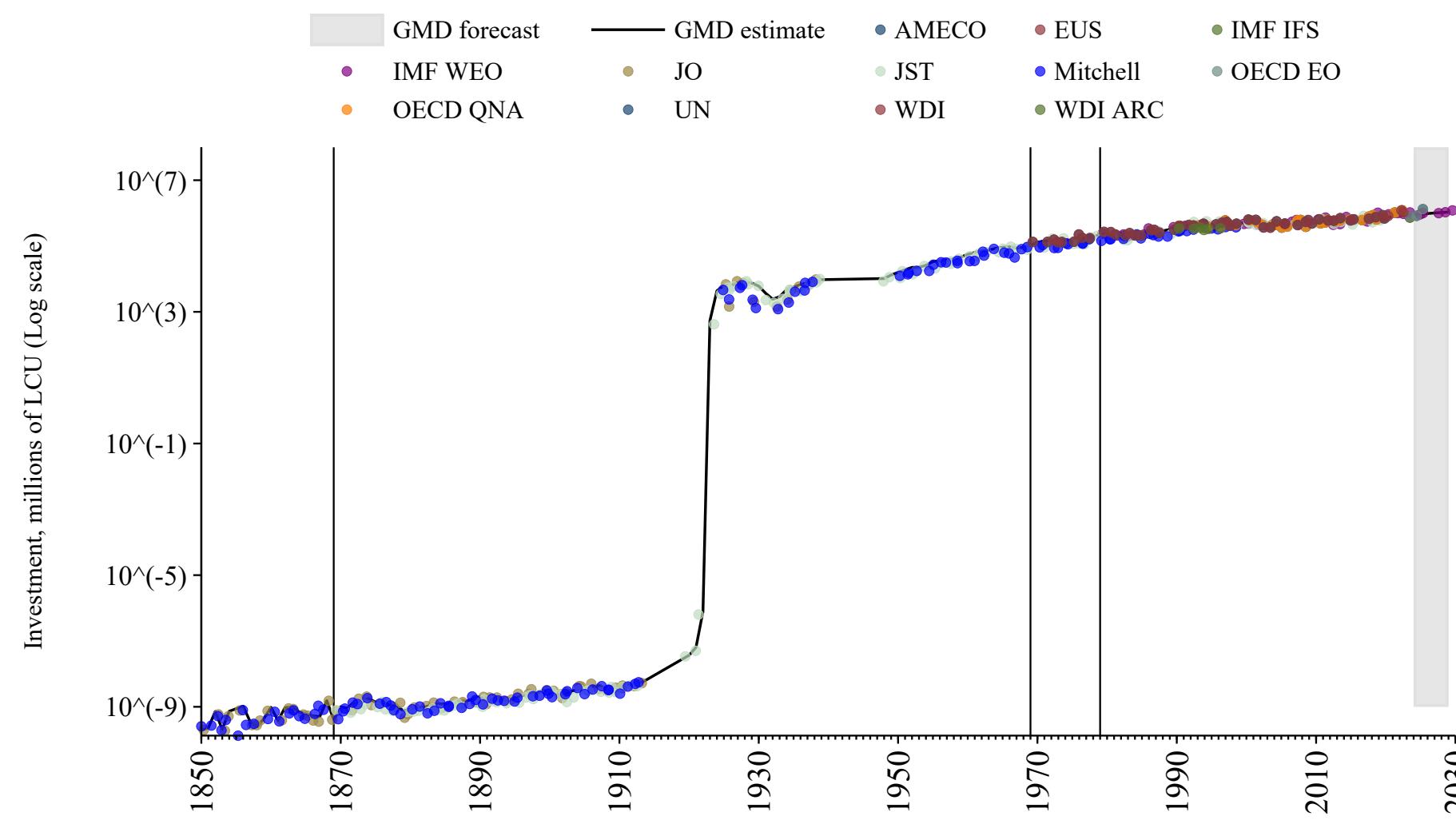
## Inflation

| Source                                    | Time span   | Notes   |
|---|-------------|---|
| Mitchell (2013)                           | 1821 - 1870 | Spliced using overlapping data in 1871        |
| Jordà et al. (2017)                       | 1871 - 1924 | Spliced using overlapping data in 1925        |
| Bank for International Settlements (2024) | 1925 - 1969 | Spliced using overlapping data in 1970        |
| Ha et al. (2023)                          | 1970 - 2023 | Baseline source, overlaps with base year 2018 |
| WEO (2024)                                | 2024 - 2029 | Spliced using overlapping data in 2030        |



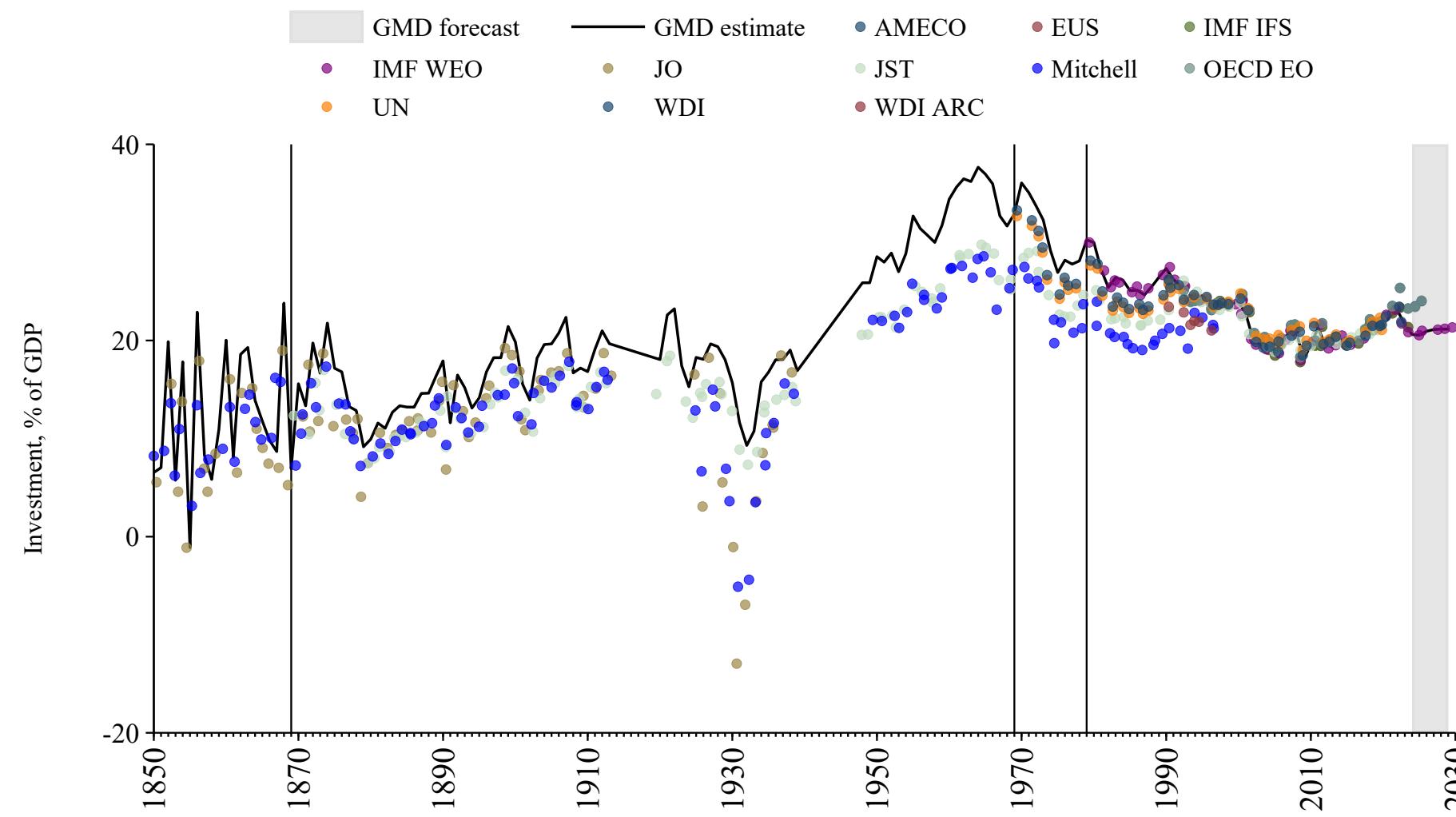
## Investment

| Source                    | Time span   | Notes   |
|---------------------------|-------------|---|
| Mitchell (2013)           | 1850 - 1850 | Spliced using overlapping data in 1851: (ratio = 77.8%).  |
| Jones and Obstfeld (1997) | 1851 - 1869 | Spliced using overlapping data in 1870: (ratio = 114.4%). |
| Jordà et al. (2017)       | 1870 - 1969 | Spliced using overlapping data in 1970: (ratio = 127.3%). |
| World Bank (2024)         | 1970 - 1979 | Spliced using overlapping data in 1980: (ratio = 97.2%).  |
| WEO (2024)                | 1980 - 2029 | Baseline source, overlaps with base year 2018             |



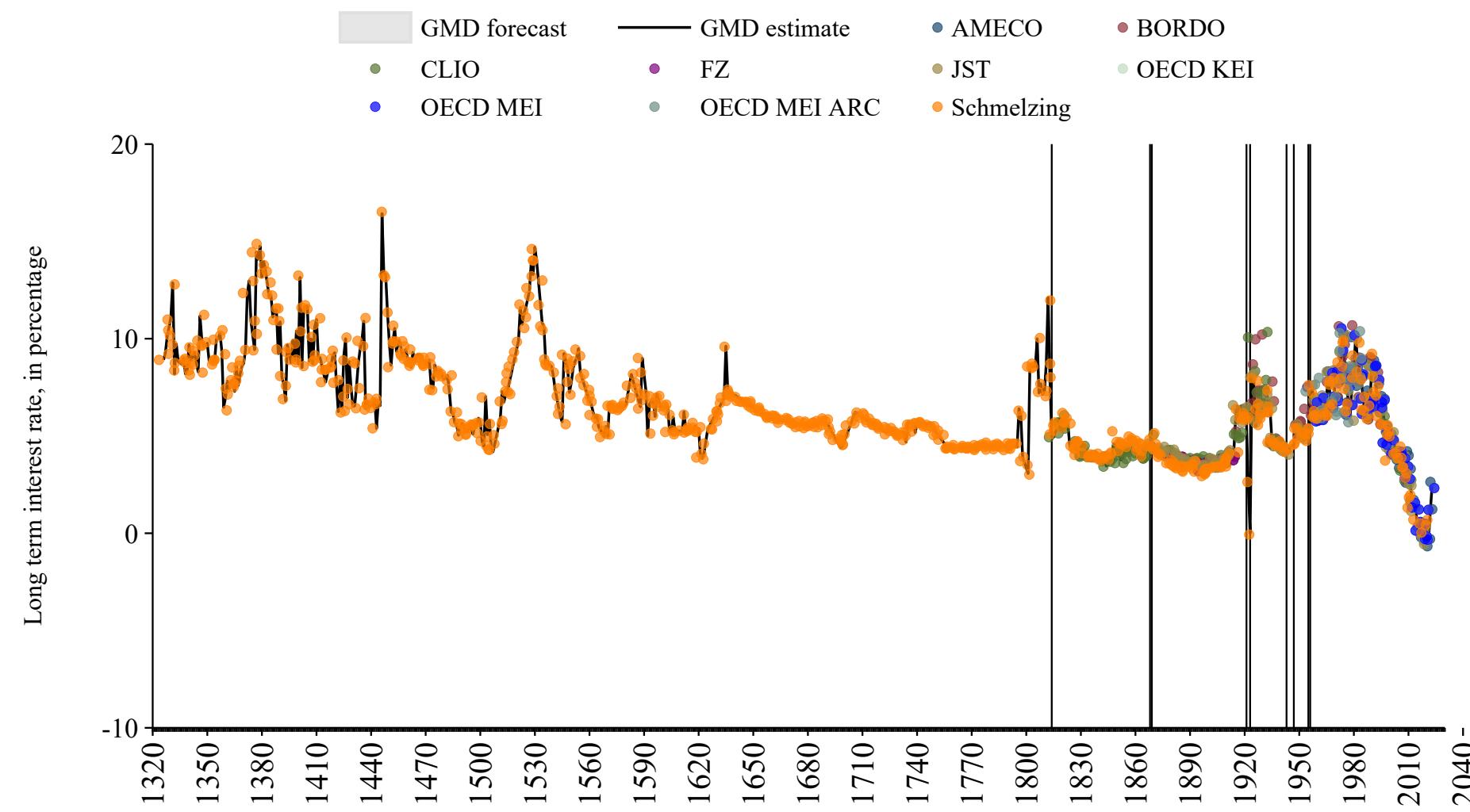
## Investment to GDP ratio

| Source                    | Time span   | Notes   |
|---------------------------|-------------|---|
| Mitchell (2013)           | 1850 - 1850 | Spliced using overlapping data in 1851: (ratio = 87.9%).  |
| Jones and Obstfeld (1997) | 1851 - 1854 | Spliced using overlapping data in 1855: (ratio = 140.1%). |
| Mitchell (2013)           | 1855 - 1855 | Spliced using overlapping data in 1856: (ratio = 175.8%). |
| Jones and Obstfeld (1997) | 1856 - 1869 | Spliced using overlapping data in 1870: (ratio = 126.6%). |
| Jordà et al. (2017)       | 1870 - 1969 | Spliced using overlapping data in 1970: (ratio = 126.3%). |
| World Bank (2024)         | 1970 - 1979 | Spliced using overlapping data in 1980: (ratio = 108.4%). |
| WEO (2024)                | 1980 - 2029 | Baseline source, overlaps with base year 2018             |



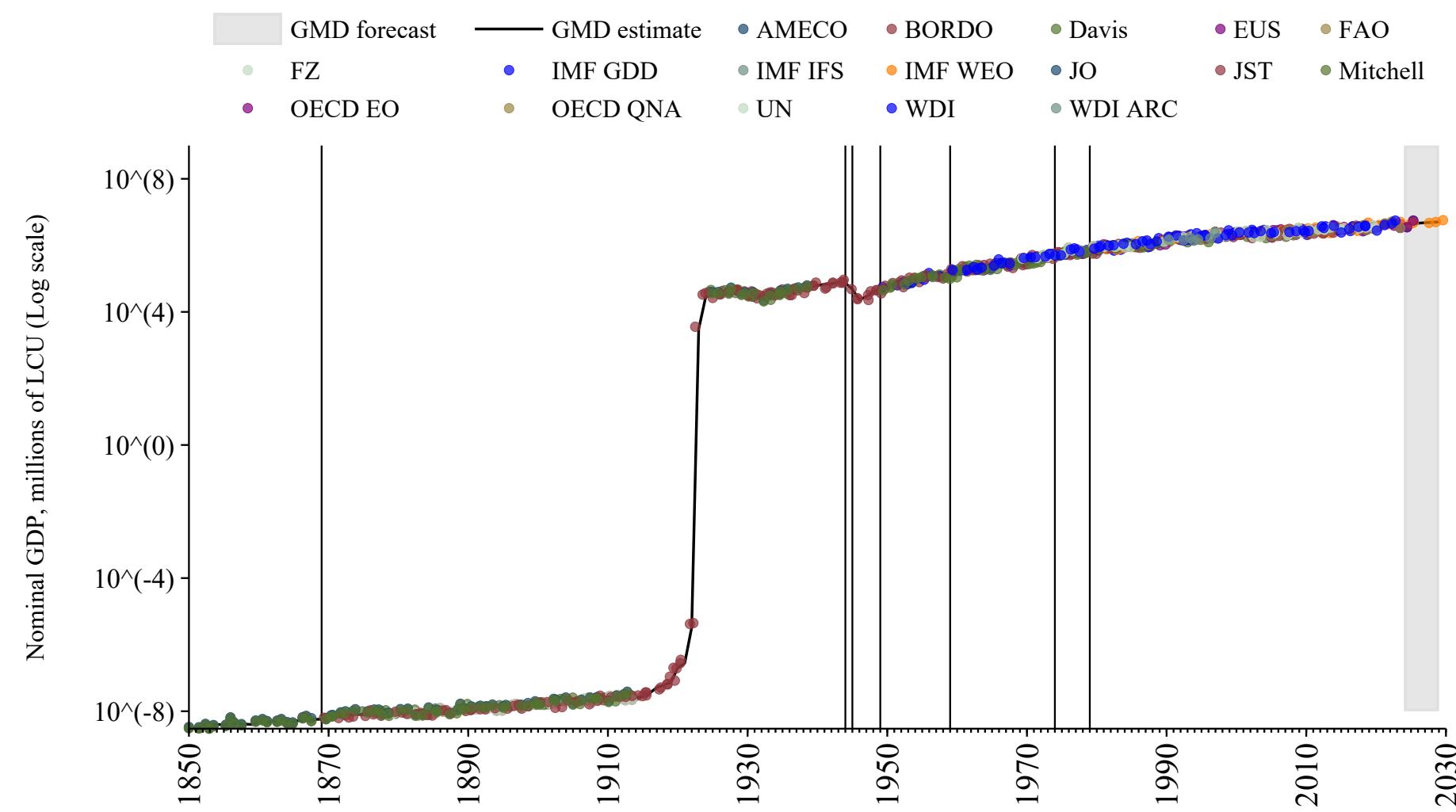
## Long term interest rate

| Source   | Time span   | Notes   |
|--|-------------|---|
| Schmelzing (2019)                                | 1326 - 1814 | Spliced using overlapping data in 1815        |
| International Institute of Social History (2024) | 1815 - 1868 | Spliced using overlapping data in 1869        |
| Schmelzing (2019)                                | 1869 - 1869 | Spliced using overlapping data in 1870        |
| Jordà et al. (2017)                              | 1870 - 1921 | Spliced using overlapping data in 1922        |
| Schmelzing (2019)                                | 1922 - 1923 | Spliced using overlapping data in 1924        |
| Jordà et al. (2017)                              | 1924 - 1943 | Spliced using overlapping data in 1944        |
| Schmelzing (2019)                                | 1944 - 1947 | Spliced using overlapping data in 1948        |
| Jordà et al. (2017)                              | 1948 - 1955 | Spliced using overlapping data in 1956        |
| OECD (2024b)                                     | 1956 - 1956 | Spliced using overlapping data in 1957        |
| OECD (2024c)                                     | 1957 - 2023 | Baseline source, overlaps with base year 2018 |



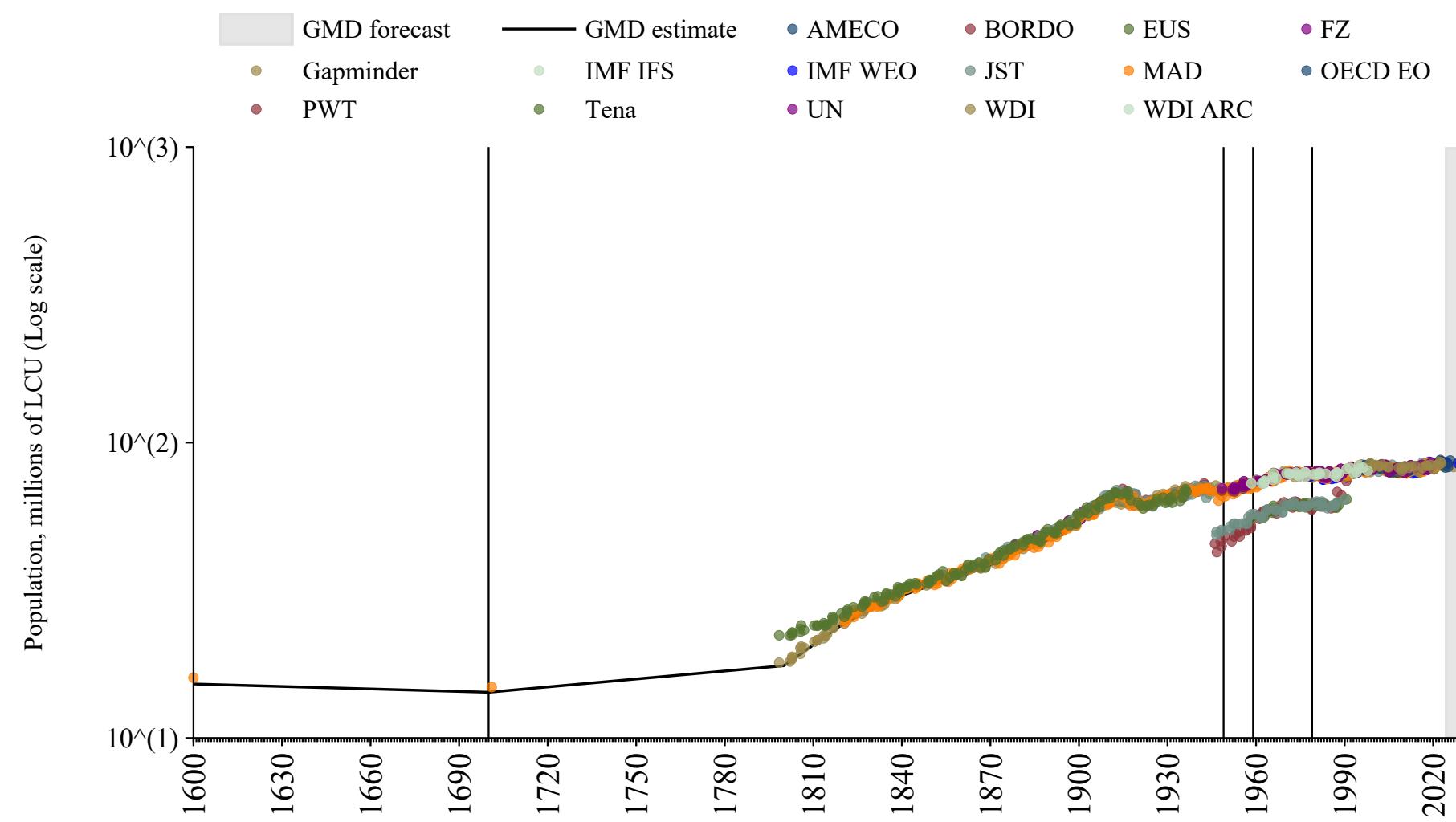
## Nominal GDP

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Mitchell (2013)     | 1850 - 1869 | Spliced using overlapping data in 1870: (ratio = 96.2%).  |
| Jordà et al. (2017) | 1870 - 1944 | Spliced using overlapping data in 1945: (ratio = 99%).    |
| Bordo et al. (2001) | 1945 - 1945 | Spliced using overlapping data in 1946: (ratio = 105.1%). |
| Jordà et al. (2017) | 1946 - 1949 | Spliced using overlapping data in 1950: (ratio = 101.7%). |
| Mbaye et al. (2018) | 1950 - 1959 | Spliced using overlapping data in 1960: (ratio = 100.1%). |
| World Bank (2024)   | 1960 - 1974 | Spliced using overlapping data in 1975: (ratio = 89.7%).  |
| Eurostat (2024)     | 1975 - 1979 | Spliced using overlapping data in 1980: (ratio = 100.8%). |
| WEO (2024)          | 1980 - 2029 | Baseline source, overlaps with base year 2018             |



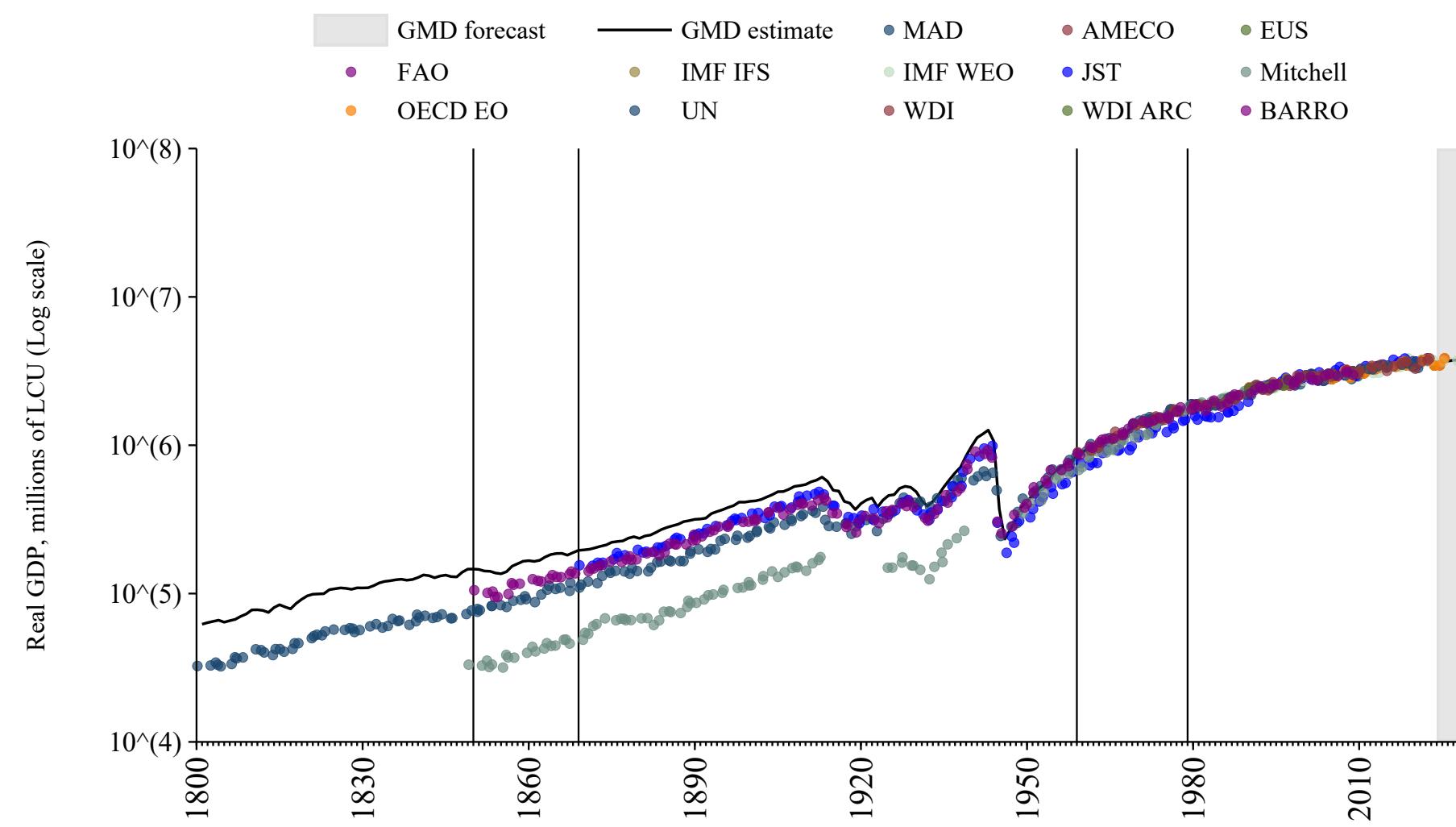
## Population

| Source                              | Time span   | Notes   |
|-------------------------------------|-------------|---|
| Bolt et al. (2018)                  | 1600 - 1700 | Spliced using overlapping data in 1701: (ratio = 95.2%).  |
| Gapminder (2024)                    | 1701 - 1949 | Spliced using overlapping data in 1950: (ratio = 97.6%).  |
| International Monetary Fund (2024b) | 1950 - 1959 | Spliced using overlapping data in 1960: (ratio = 97.4%).  |
| World Bank (2024)                   | 1960 - 1979 | Spliced using overlapping data in 1980: (ratio = 98.2%).  |
| WEO (2024)                          | 1980 - 2029 | Baseline source, overlaps with base year 2018             |
| Gapminder (2024)                    | 2030 - 2030 | Spliced using overlapping data in 2031: (ratio = 102.7%). |



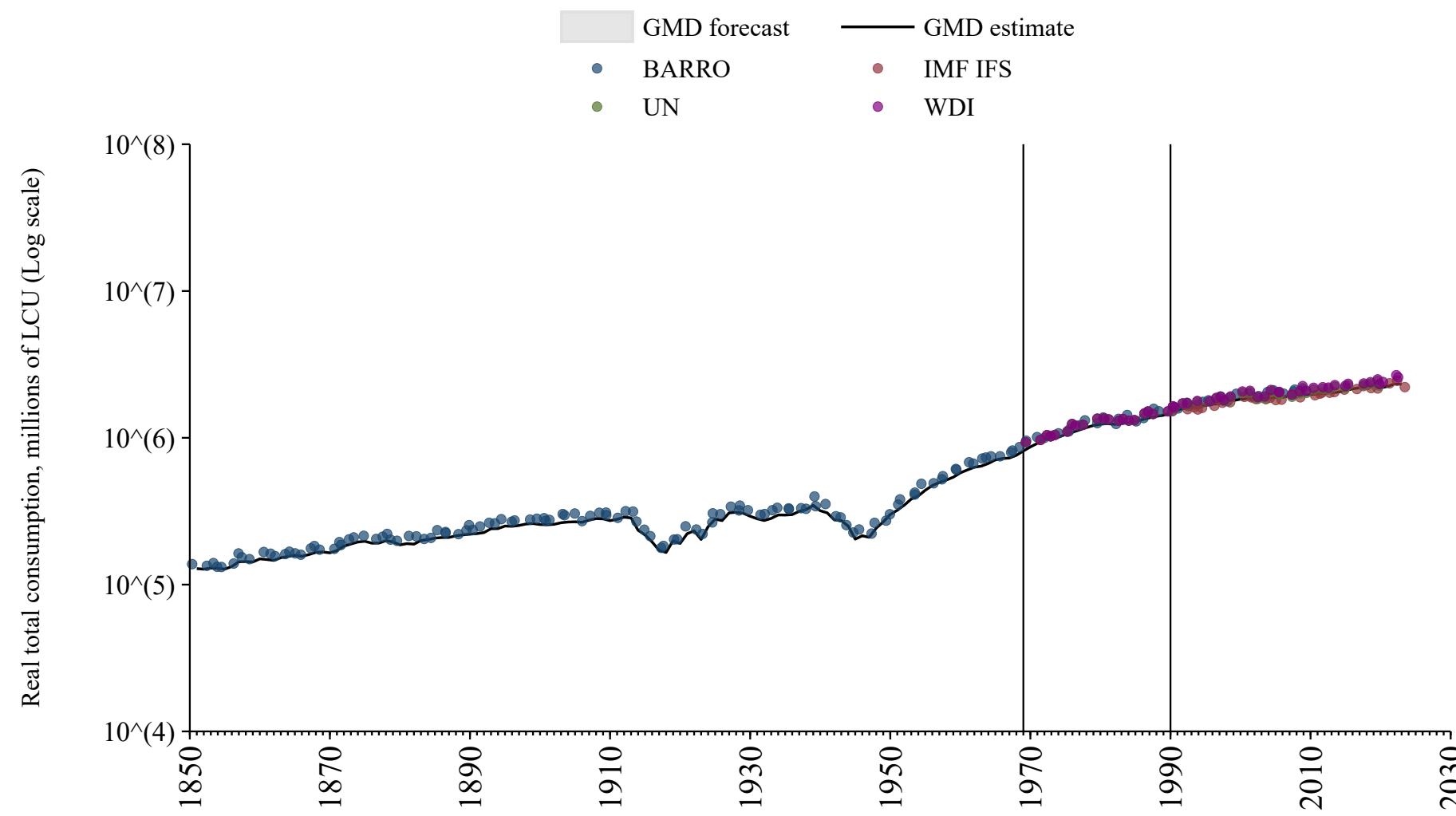
## Real GDP

| Source                   | Time span   | Notes   |
|--------------------------|-------------|---|
| Bolt et al. (2018)       | 1801 - 1850 | Spliced using overlapping data in 1851: (ratio = 191%).   |
| Barro and Redlick (2011) | 1851 - 1869 | Spliced using overlapping data in 1870: (ratio = 138%).   |
| Jordà et al. (2017)      | 1870 - 1959 | Spliced using overlapping data in 1960: (ratio = 127%).   |
| World Bank (2024)        | 1960 - 1979 | Spliced using overlapping data in 1980: (ratio = 100.4%). |
| WEO (2024)               | 1980 - 2029 | Baseline source, overlaps with base year 2018             |



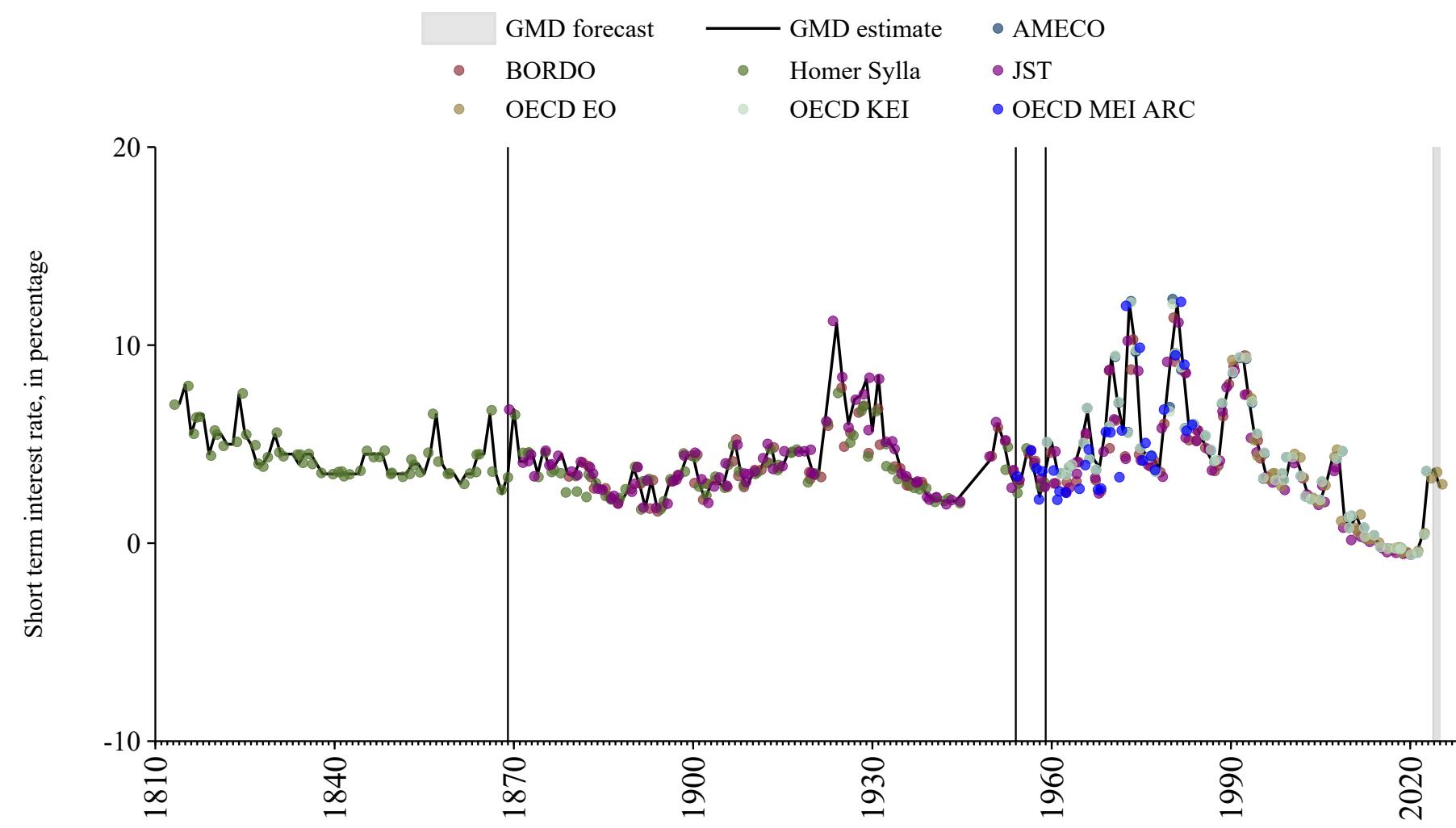
## Real total consumption

| Source                              | Time span   | Notes  |
|-------------------------------------|-------------|--|
| Barro and Redlick (2011)            | 1851 - 1969 | Spliced using overlapping data in 1970: (ratio = 93.1%). |
| World Bank (2024)                   | 1970 - 1990 | Spliced using overlapping data in 1991: (ratio = 93.1%). |
| International Monetary Fund (2024b) | 1991 - 2023 | Baseline source, overlaps with base year 2018            |



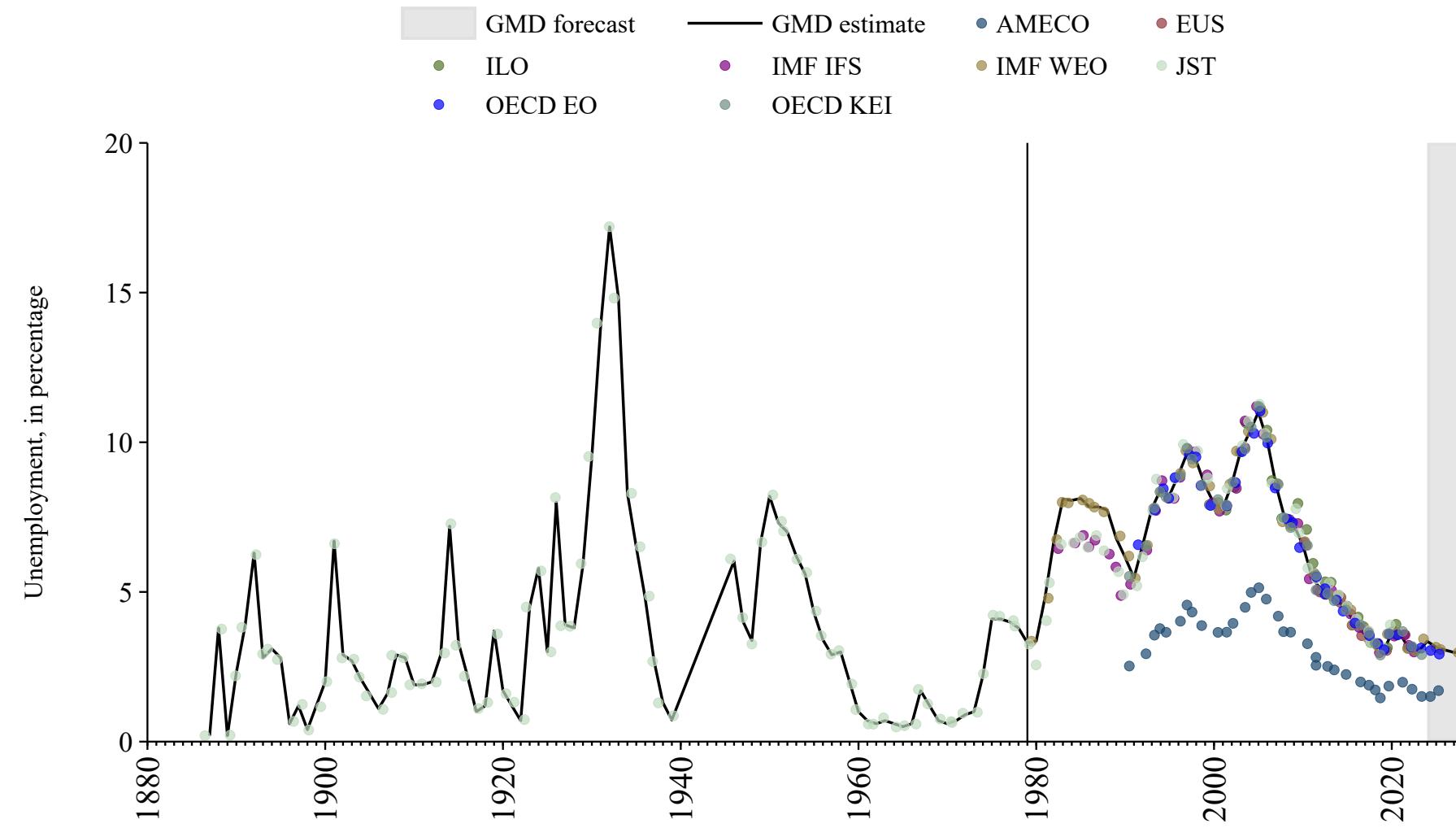
## Short term interest rate

| Source                       | Time span   | Notes   |
|------------------------------|-------------|---|
| Homer and Sylla (1996)       | 1814 - 1869 | Spliced using overlapping data in 1870        |
| Jordà et al. (2017)          | 1870 - 1954 | Spliced using overlapping data in 1955        |
| OECD (2024b)                 | 1955 - 1959 | Spliced using overlapping data in 1960        |
| OECD (2024a)                 | 1960 - 2023 | Baseline source, overlaps with base year 2018 |
| OECD Economic Outlook (2024) | 2024 - 2025 | Spliced using overlapping data in 2026        |



## Unemployment

| Source              | Time span   | Notes   |
|---------------------|-------------|---|
| Jordà et al. (2017) | 1887 - 1979 | Spliced using overlapping data in 1980        |
| WEO (2024)          | 1980 - 2029 | Baseline source, overlaps with base year 2018 |



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