# Supplement for “Working 9 to 5: not the way to make an academic living? An observational analysis of submission and peer reviewer data over time”

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## Flow diagrams of the number of included submissions and peer reviews

A screenshot of a cell phone screen with text

Description automatically generated

## Details on the regression model to examine the differences in submissions and peer reviews by time of day

We first consider a model that just examines submissions as the dependent variable and country as the key independent variable. The first equation is:

*C*(*i,c*) ~ Poisson [*μ*(*i,c*)], *i* = 0, 1, …, 23, *c* = 1,2, …, *N*.

So the count of submissions at hour *i* in country *c* has a Poisson distribution. We look at all 24 hours in the day and there are *N* countries. The mean is modelled as:

*μ*(*i,c*) = log[*T*(*c*)] + γ(*i*) + s(*i,c*),

where *Tc* is the total number of submissions in country *c* and is an offset which means that *μ* models the probability of submission. The γ’s model the overall pattern by hour, which is the pattern common to all countries. These are modelled as a random effect:

γ(i) ~ N(0, ).

The inverse-variance is modelled using a gamma distribution, which is standard in Bayesian modelling:

~ Ga(1, 1).

The smooth country effect is modelled using a sinusoid:

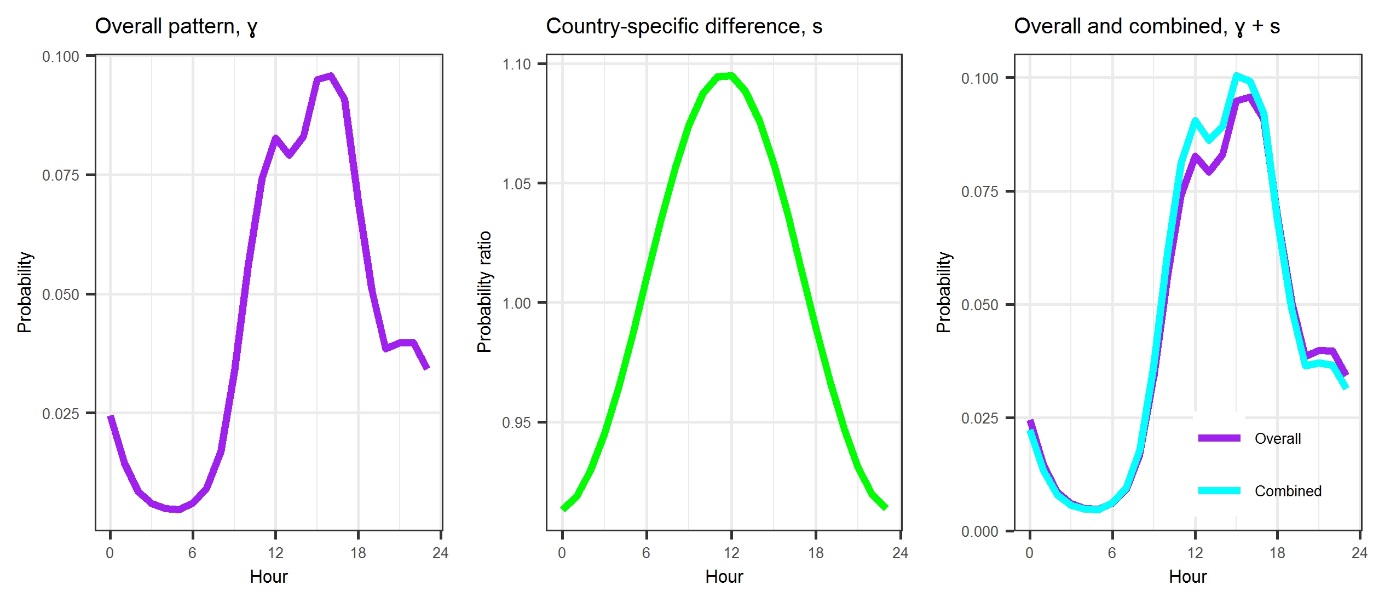
s(*i,c*) = *α*(*c*) cos(2*πi*/24) + *β*(*c*) sin(2*πi*/24)

This is a flexible function that allows a peak in submissions of any height and at any time during the 24-hour clock. The average of s() is zero, meaning the country-specific change is centred on the average. The sinusoid is symmetric, as the nadir is exactly 12 hours after the peak.

The priors for the sinusoid parameters are vague Normal distributions:

*α*(*c*) & *β*(*c*) ~ N(0, 104).

We give an example below showing the overall pattern, country-specific smooth effect, and the combination of the two.



For the example the timing of the peak is at midday, and the height of the peak is a probability ratio of 1.10.

We extended the model to include a smooth difference for journal (*BMJ* or *BMJ Open*) using:

*μ*(*i,c,j,t*) = log[*T*(*c*)] + γ(*i*) + s(*i,c*) + x(i)×I(*j* = 1),

*x*(*i*) = *δ(1)* cos(2*πi*/24) + *δ(2)* sin(2*πi*/24),

where I() is an indicator function, and j is 0 for *BMJ Open* and 1 for BMJ. So the difference between journals are also a smooth sinusoid, with the *δ*’s also given vague Normal priors.

The models were estimated using WinBUGS version 1.4.3. We used 2 chains each with 5,000 estimates thinned by 3. We visually checked the convergence and mixing of the chains using a time series plot.

## Peak times and heights for submissions

The table below gives the estimated timing and height of the peak in submissions for each country. The height of the peak is presented as a probability ratio. The countries are ordered by the probability ratio. The hour labels [*a*-*b*) mean from time *a* to just before time *b* using a 24-hour clock.

|  |  |  |  |
| --- | --- | --- | --- |
| Country | Peak hour | Probability ratio | 95% CI |
| China | [0-1) | 1.86 | 1.79, 1.94 |
| Japan | [23-0) | 1.46 | 1.36, 1.57 |
| Denmark | [10-11) | 1.37 | 1.27, 1.47 |
| Brazil | [1-2) | 1.27 | 1.14, 1.42 |
| New Zealand | [12-13) | 1.25 | 1.12, 1.39 |
| France | [19-20) | 1.23 | 1.14, 1.33 |
| Canada | [9-10) | 1.20 | 1.13, 1.27 |
| Netherlands | [14-15) | 1.17 | 1.12, 1.23 |
| USA | [9-10) | 1.17 | 1.12, 1.23 |
| Norway | [10-11) | 1.15 | 1.05, 1.26 |
| Italy | [19-20) | 1.15 | 1.06, 1.25 |
| Belgium | [13-14) | 1.15 | 1.03, 1.29 |
| UK | [14-15) | 1.13 | 1.09, 1.16 |
| Australia | [12-13) | 1.09 | 1.05, 1.15 |
| Finland | [10-11) | 1.09 | 1.02, 1.20 |
| Spain | [22-23) | 1.09 | 1.02, 1.19 |
| Switzerland | [8-9) | 1.08 | 1.01, 1.19 |
| Sweden | [10-11) | 1.07 | 1.02, 1.15 |
| Germany | [14-15) | 1.07 | 1.01, 1.14 |

Submissions from China were 86% higher than the average during the hours of midnight to just before 1am. Germany had the smallest increase in submissions at just 7% higher than the average from 10am to just before 11am.

## Peak times and heights for peer reviews

This is the same table as above, but examining peer reviews.

|  |  |  |  |
| --- | --- | --- | --- |
| Country | Peak hour | Probability ratio | 95% CI |
| China | [0-1) | 1.57 | 1.46, 1.68 |
| Japan | [0-1) | 1.37 | 1.27, 1.47 |
| France | [20-21) | 1.22 | 1.13, 1.31 |
| USA | [8-9) | 1.22 | 1.18, 1.25 |
| Ireland | [13-14) | 1.22 | 1.11, 1.33 |
| Finland | [11-12) | 1.21 | 1.10, 1.33 |
| Canada | [8-9) | 1.21 | 1.15, 1.26 |
| Brazil | [22-23) | 1.19 | 1.09, 1.30 |
| Norway | [10-11) | 1.16 | 1.07, 1.26 |
| Germany | [14-15) | 1.15 | 1.08, 1.22 |
| Netherlands | [17-18) | 1.13 | 1.07, 1.20 |
| Italy | [17-18) | 1.13 | 1.07, 1.19 |
| Belgium | [16-17) | 1.13 | 1.03, 1.25 |
| Spain | [21-22) | 1.12 | 1.04, 1.20 |
| UK | [3-4) | 1.10 | 1.08, 1.13 |
| Sweden | [9-10) | 1.10 | 1.03, 1.18 |
| Australia | [10-11) | 1.10 | 1.05, 1.14 |
| Denmark | [8-9) | 1.09 | 1.03, 1.18 |
| New Zealand | [7-8) | 1.09 | 1.02, 1.18 |
| Switzerland | [11-12) | 1.09 | 1.02, 1.18 |

China had the highest relative increase in reviews, with an average 57% higher during the hours of midnight to just before 1am. Switzerland had the smallest increase in reviews at just 9% higher than the average from 11am to just before midday.

## Country national holidays

Countries listed in alphabetical order.

### Australia

2012: Jan-1, Jan-26, Apr-6, Apr-9, Apr-25, Dec-25, Dec-26

2013: Jan-1, Jan-26, Mar-29, Apr-1, Apr-25, Dec-25, Dec-26

2014: Jan-1, Jan-26, Apr-18, Apr-21, Apr-25, Dec-25, Dec-26

2015: Jan-1, Jan-26, Apr-3, Apr-6, Apr-25, Dec-25, Dec-26

2016: Jan-1, Jan-26, Mar-25, Mar-28, Apr-25, Dec-25, Dec-26

2017: Jan-1, Jan-26, Apr-14, Apr-17, Apr-25, Dec-25, Dec-26

2018: Jan-1, Jan-26, Mar-30, Apr-2, Apr-25, Dec-25, Dec-26

2019: Jan-1, Jan-26, Apr-19, Apr-22, Apr-25, Dec-25, Dec-26

### Austria

2012: Jan-1, Jan-6, Apr-9, May-1, May-17, May-28, Jun-7, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2013: Jan-1, Jan-6, Apr-1, May-1, May-9, May-20, May-30, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2014: Jan-1, Jan-6, Apr-21, May-1, May-29, Jun-9, Jun-19, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2015: Jan-1, Jan-6, Apr-6, May-1, May-14, May-25, Jun-4, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2016: Jan-1, Jan-6, Mar-28, May-1, May-5, May-16, May-26, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2017: Jan-1, Jan-6, Apr-17, May-1, May-25, Jun-5, Jun-15, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2018: Jan-1, Jan-6, Apr-2, May-1, May-10, May-21, May-31, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

2019: Jan-1, Jan-6, Apr-22, May-1, May-30, Jun-10, Jun-20, Aug-15, Oct-26, Nov-1, Dec-8, Dec-25, Dec-26

### Belgium

2012: Jan-1, Apr-8, Apr-9, May-1, May-17, May-28, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2013: Jan-1, Mar-31, Apr-1, May-1, May-9, May-20, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2014: Jan-1, Apr-20, Apr-21, May-1, May-29, Jun-9, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2015: Jan-1, Apr-5, Apr-6, May-1, May-14, May-25, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2016: Jan-1, Mar-27, Mar-28, May-1, May-5, May-16, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2017: Jan-1, Apr-16, Apr-17, May-1, May-25, Jun-5, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2018: Jan-1, Apr-1, Apr-2, May-1, May-10, May-21, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

2019: Jan-1, Apr-21, Apr-22, May-1, May-30, Jun-10, Jul-21, Aug-15, Nov-1, Nov-11, Dec-25

### Brazil

2012: Jan-1, Feb-21, Apr-6, Apr-8, Apr-21, May-1, Jun-7, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2013: Jan-1, Feb-12, Mar-29, Mar-31, Apr-21, May-1, May-30, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2014: Jan-1, Mar-4, Apr-18, Apr-20, Apr-21, May-1, Jun-19, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2015: Jan-1, Feb-17, Apr-3, Apr-5, Apr-21, May-1, Jun-4, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2016: Jan-1, Feb-9, Mar-25, Mar-27, Apr-21, May-1, May-26, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2017: Jan-1, Feb-28, Apr-14, Apr-16, Apr-21, May-1, Jun-15, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2018: Jan-1, Feb-13, Mar-30, Apr-1, Apr-21, May-1, May-31, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

2019: Jan-1, Mar-5, Apr-19, Apr-21, Apr-21, May-1, Jun-20, Sep-7, Oct-12, Nov-2, Nov-15, Dec-25

### Canada

2012: Jan-1, Apr-6, Jul-1, Sep-3, Oct-8, Dec-25

2013: Jan-1, Mar-29, Jul-1, Sep-2, Oct-14, Dec-25

2014: Jan-1, Apr-18, Jul-1, Sep-1, Oct-13, Dec-25

2015: Jan-1, Apr-3, Jul-1, Sep-7, Oct-12, Dec-25

2016: Jan-1, Mar-25, Jul-1, Sep-5, Oct-10, Dec-25

2017: Jan-1, Apr-14, Jul-1, Sep-4, Oct-9, Dec-25

2018: Jan-1, Mar-30, Jul-1, Sep-3, Oct-8, Dec-25

2019: Jan-1, Apr-19, Jul-1, Sep-2, Oct-14, Dec-25

### China

2012: Jan-1, Jan-23, Apr-5, May-1, May-25, Sep-30, Oct-1

2013: Jan-1, Feb-10, Apr-5, May-1, Jun-12, Sep-19, Oct-1

2014: Jan-1, Jan-31, Apr-5, May-1, Jun-2, Sep-8, Oct-1

2015: Jan-1, Feb-19, Apr-5, May-1, Jun-20, Sep-27, Oct-1

2016: Jan-1, Feb-8, Apr-5, May-1, Jun-9, Sep-15, Oct-1

2017: Jan-1, Jan-28, Apr-5, May-1, May-30, Oct-1, Oct-4

2018: Jan-1, Feb-16, Apr-5, May-1, Jun-18, Sep-24, Oct-1

2019: Jan-1, Feb-5, Apr-5, May-1, Jun-7, Sep-13, Oct-1

### Denmark

2012: Jan-1, Apr-5, Apr-6, Apr-8, Apr-9, May-4, May-17, May-18, May-27, May-28, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2013: Jan-1, Mar-28, Mar-29, Mar-31, Apr-1, Apr-26, May-9, May-10, May-19, May-20, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2014: Jan-1, Apr-17, Apr-18, Apr-20, Apr-21, May-16, May-29, May-30, Jun-5, Jun-8, Jun-9, Dec-24, Dec-25, Dec-26, Dec-31

2015: Jan-1, Apr-2, Apr-3, Apr-5, Apr-6, May-1, May-14, May-15, May-24, May-25, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2016: Jan-1, Mar-24, Mar-25, Mar-27, Mar-28, Apr-22, May-5, May-6, May-15, May-16, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2017: Jan-1, Apr-13, Apr-14, Apr-16, Apr-17, May-12, May-25, May-26, Jun-4, Jun-5, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2018: Jan-1, Mar-29, Mar-30, Apr-1, Apr-2, Apr-27, May-10, May-11, May-20, May-21, Jun-5, Dec-24, Dec-25, Dec-26, Dec-31

2019: Jan-1, Apr-18, Apr-19, Apr-21, Apr-22, May-17, May-30, May-31, Jun-5, Jun-9, Jun-10, Dec-24, Dec-25, Dec-26, Dec-31

### Finland

2012: Jan-1, Jan-6, Apr-6, Apr-8, Apr-9, May-1, May-17, May-27, Jun-22, Jun-23, Nov-24, Dec-6, Dec-24, Dec-25, Dec-26

2013: Jan-1, Jan-6, Mar-29, Mar-31, Apr-1, May-1, May-9, May-19, Jun-21, Jun-22, Nov-23, Dec-6, Dec-24, Dec-25, Dec-26

2014: Jan-1, Jan-6, Apr-18, Apr-20, Apr-21, May-1, May-29, Jun-8, Jun-20, Jun-21, Nov-22, Dec-6, Dec-24, Dec-25, Dec-26

2015: Jan-1, Jan-6, Apr-3, Apr-5, Apr-6, May-1, May-14, May-24, Jun-19, Jun-20, Nov-21, Dec-6, Dec-24, Dec-25, Dec-26

2016: Jan-1, Jan-6, Mar-25, Mar-27, Mar-28, May-1, May-5, May-15, Jun-24, Jun-25, Nov-19, Dec-6, Dec-24, Dec-25, Dec-26

2017: Jan-1, Jan-6, Apr-14, Apr-16, Apr-17, May-1, May-25, Jun-4, Jun-23, Jun-24, Nov-25, Dec-6, Dec-24, Dec-25, Dec-26

2018: Jan-1, Jan-6, Mar-30, Apr-1, Apr-2, May-1, May-10, May-20, Jun-22, Jun-23, Nov-24, Dec-6, Dec-24, Dec-25, Dec-26

2019: Jan-1, Jan-6, Apr-19, Apr-21, Apr-22, May-1, May-30, Jun-9, Jun-21, Jun-22, Nov-23, Dec-6, Dec-24, Dec-25, Dec-26

### France

2012: Jan-1, Apr-9, May-1, May-8, May-17, May-28, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2013: Jan-1, Apr-1, May-1, May-8, May-9, May-20, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2014: Jan-1, Apr-21, May-1, May-8, May-29, Jun-9, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2015: Jan-1, Apr-6, May-1, May-8, May-14, May-25, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2016: Jan-1, Mar-28, May-1, May-5, May-8, May-16, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2017: Jan-1, Apr-17, May-1, May-8, May-25, Jun-5, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2018: Jan-1, Apr-2, May-1, May-8, May-10, May-21, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

2019: Jan-1, Apr-22, May-1, May-8, May-30, Jun-10, Jul-14, Aug-15, Nov-1, Nov-11, Dec-25

### Germany

2012: Jan-1, Apr-6, Apr-9, May-1, May-17, May-28, Oct-3, Dec-25, Dec-26

2013: Jan-1, Mar-29, Apr-1, May-1, May-9, May-20, Oct-3, Dec-25, Dec-26

2014: Jan-1, Apr-18, Apr-21, May-1, May-29, Jun-9, Oct-3, Dec-25, Dec-26

2015: Jan-1, Apr-3, Apr-6, May-1, May-14, May-25, Oct-3, Dec-25, Dec-26

2016: Jan-1, Mar-25, Mar-28, May-1, May-5, May-16, Oct-3, Dec-25, Dec-26

2017: Jan-1, Apr-14, Apr-17, May-1, May-25, Jun-5, Oct-3, Oct-31, Dec-25, Dec-26

2018: Jan-1, Mar-30, Apr-2, May-1, May-10, May-21, Oct-3, Dec-25, Dec-26

2019: Jan-1, Apr-19, Apr-22, May-1, May-30, Jun-10, Oct-3, Dec-25, Dec-26

### Greece

2012: Jan-1, Jan-6, Feb-27, Mar-25, Mar-25, Apr-13, Apr-15, Apr-16, May-1, Jun-3, Jun-4, Aug-15, Oct-28, Dec-25, Dec-26

2013: Jan-1, Jan-6, Mar-18, Mar-25, Mar-25, May-1, May-3, May-5, May-6, Jun-23, Jun-24, Aug-15, Oct-28, Dec-25, Dec-26

2014: Jan-1, Jan-6, Mar-3, Mar-25, Mar-25, Apr-18, Apr-20, Apr-21, May-1, Jun-8, Jun-9, Aug-15, Oct-28, Dec-25, Dec-26

2015: Jan-1, Jan-6, Feb-23, Mar-25, Mar-25, Apr-10, Apr-12, Apr-13, May-1, May-31, Jun-1, Aug-15, Oct-28, Dec-25, Dec-26

2016: Jan-1, Jan-6, Mar-14, Mar-25, Mar-25, Apr-29, May-1, May-1, May-2, Jun-19, Jun-20, Aug-15, Oct-28, Dec-25, Dec-26

2017: Jan-1, Jan-6, Feb-27, Mar-25, Mar-25, Apr-14, Apr-16, Apr-17, May-1, Jun-4, Jun-5, Aug-15, Oct-28, Dec-25, Dec-26

2018: Jan-1, Jan-6, Feb-19, Mar-25, Mar-25, Apr-6, Apr-8, Apr-9, May-1, May-27, May-28, Aug-15, Oct-28, Dec-25, Dec-26

2019: Jan-1, Jan-6, Mar-11, Mar-25, Mar-25, Apr-26, Apr-28, Apr-29, May-1, Jun-16, Jun-17, Aug-15, Oct-28, Dec-25, Dec-26

### Ireland

2012: Jan-1, Mar-17, Apr-9, May-7, Jun-4, Aug-6, Oct-29, Dec-25, Dec-26

2013: Jan-1, Mar-17, Apr-1, May-6, Jun-3, Aug-5, Oct-28, Dec-25, Dec-26

2014: Jan-1, Mar-17, Apr-21, May-5, Jun-2, Aug-4, Oct-27, Dec-25, Dec-26

2015: Jan-1, Mar-17, Apr-6, May-4, Jun-1, Aug-3, Oct-26, Dec-25, Dec-26

2016: Jan-1, Mar-17, Mar-28, May-2, Jun-6, Aug-1, Oct-31, Dec-25, Dec-26

2017: Jan-1, Mar-17, Apr-17, May-1, Jun-5, Aug-7, Oct-30, Dec-25, Dec-26

2018: Jan-1, Mar-17, Apr-2, May-7, Jun-4, Aug-6, Oct-29, Dec-25, Dec-26

2019: Jan-1, Mar-17, Apr-22, May-6, Jun-3, Aug-5, Oct-28, Dec-25, Dec-26

### Italy

2012: Jan-1, Jan-6, Apr-8, Apr-9, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2013: Jan-1, Jan-6, Mar-31, Apr-1, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2014: Jan-1, Jan-6, Apr-20, Apr-21, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2015: Jan-1, Jan-6, Apr-5, Apr-6, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2016: Jan-1, Jan-6, Mar-27, Mar-28, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2017: Jan-1, Jan-6, Apr-16, Apr-17, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2018: Jan-1, Jan-6, Apr-1, Apr-2, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

2019: Jan-1, Jan-6, Apr-21, Apr-22, Apr-25, May-1, Jun-2, Aug-15, Nov-1, Dec-8, Dec-25, Dec-26

### Japan

2012: Jan-2, Jan-9, Feb-11, Apr-30, May-3, May-4, May-5, Jul-16, Aug-11, Sep-17, Oct-8, Nov-3, Nov-23, Dec-24

2013: Jan-1, Jan-14, Feb-11, Apr-29, May-3, May-4, May-6, Jul-15, Aug-12, Sep-16, Oct-14, Nov-4, Nov-23, Dec-23

2014: Jan-1, Jan-13, Feb-11, Apr-29, May-3, May-5, May-5, Jul-21, Aug-11, Sep-15, Oct-13, Nov-3, Nov-24, Dec-23

2015: Jan-1, Jan-12, Feb-11, Apr-29, May-4, May-4, May-5, Jul-20, Aug-11, Sep-21, Oct-12, Nov-3, Nov-23, Dec-23

2016: Jan-1, Jan-11, Feb-11, Apr-29, May-3, May-4, May-5, Jul-18, Aug-11, Sep-19, Oct-10, Nov-3, Nov-23, Dec-23

2017: Jan-2, Jan-9, Feb-11, Apr-29, May-3, May-4, May-5, Jul-17, Aug-11, Sep-18, Oct-9, Nov-3, Nov-23, Dec-23

2018: Jan-1, Jan-8, Feb-12, Apr-30, May-3, May-4, May-5, Jul-16, Aug-11, Sep-17, Oct-8, Nov-3, Nov-23, Dec-24

2019: Jan-1, Jan-14, Feb-11, Apr-29, May-3, May-4, May-6, Jul-15, Aug-12, Sep-16, Oct-14, Nov-4, Nov-23, Dec-23

### Mexico

2012: Jan-2, Feb-6, Mar-19, May-1, Sep-17, Nov-19, Nov-30, Dec-25

2013: Jan-1, Feb-4, Mar-18, May-1, Sep-16, Nov-18, Dec-25

2014: Jan-1, Feb-3, Mar-17, May-1, Sep-16, Nov-17, Dec-25

2015: Jan-1, Feb-2, Mar-16, May-1, Sep-16, Nov-16, Dec-25

2016: Jan-1, Feb-1, Mar-21, May-2, Sep-16, Nov-21, Dec-25

2017: Jan-2, Feb-6, Mar-20, May-1, Sep-15, Nov-20, Dec-25

2018: Jan-1, Feb-5, Mar-19, May-1, Sep-17, Nov-19, Nov-30, Dec-25

2019: Jan-1, Feb-4, Mar-18, May-1, Sep-16, Nov-18, Dec-25

### Netherlands

2012: Jan-1, Apr-6, Apr-8, Apr-9, Apr-27, May-5, May-17, May-28, Dec-25, Dec-26

2013: Jan-1, Mar-29, Mar-31, Apr-1, Apr-27, May-5, May-9, May-20, Dec-25, Dec-26

2014: Jan-1, Apr-18, Apr-20, Apr-21, Apr-26, May-5, May-29, Jun-9, Dec-25, Dec-26

2015: Jan-1, Apr-3, Apr-5, Apr-6, Apr-27, May-5, May-14, May-25, Dec-25, Dec-26

2016: Jan-1, Mar-25, Mar-27, Mar-28, Apr-27, May-5, May-5, May-16, Dec-25, Dec-26

2017: Jan-1, Apr-14, Apr-16, Apr-17, Apr-27, May-5, May-25, Jun-5, Dec-25, Dec-26

2018: Jan-1, Mar-30, Apr-1, Apr-2, Apr-27, May-5, May-10, May-21, Dec-25, Dec-26

2019: Jan-1, Apr-19, Apr-21, Apr-22, Apr-27, May-5, May-30, Jun-10, Dec-25, Dec-26

### New Zealand

2012: Jan-2, Jan-2, Feb-6, Apr-6, Apr-9, Apr-25, Jun-4, Oct-22, Dec-25, Dec-26

2013: Jan-1, Jan-2, Feb-6, Mar-29, Apr-1, Apr-25, Jun-3, Oct-28, Dec-25, Dec-26

2014: Jan-1, Jan-2, Feb-6, Apr-18, Apr-21, Apr-25, Jun-2, Oct-27, Dec-25, Dec-26

2015: Jan-1, Jan-2, Feb-6, Apr-3, Apr-6, Apr-27, Jun-1, Oct-26, Dec-25, Dec-28

2016: Jan-1, Jan-4, Feb-8, Mar-25, Mar-28, Apr-25, Jun-6, Oct-24, Dec-26, Dec-26

2017: Jan-2, Jan-2, Feb-6, Apr-14, Apr-17, Apr-25, Jun-5, Oct-23, Dec-25, Dec-26

2018: Jan-1, Jan-2, Feb-6, Mar-30, Apr-2, Apr-25, Jun-4, Oct-22, Dec-25, Dec-26

2019: Jan-1, Jan-2, Feb-6, Apr-19, Apr-22, Apr-25, Jun-3, Oct-28, Dec-25, Dec-26

### Norway

2012: Jan-1, Apr-5, Apr-6, Apr-8, Apr-9, May-1, May-17, May-17, May-27, May-28, Dec-25, Dec-26

2013: Jan-1, Mar-28, Mar-29, Mar-31, Apr-1, May-1, May-9, May-17, May-19, May-20, Dec-25, Dec-26

2014: Jan-1, Apr-17, Apr-18, Apr-20, Apr-21, May-1, May-17, May-29, Jun-8, Jun-9, Dec-25, Dec-26

2015: Jan-1, Apr-2, Apr-3, Apr-5, Apr-6, May-1, May-14, May-17, May-24, May-25, Dec-25, Dec-26

2016: Jan-1, Mar-24, Mar-25, Mar-27, Mar-28, May-1, May-5, May-15, May-16, May-17, Dec-25, Dec-26

2017: Jan-1, Apr-13, Apr-14, Apr-16, Apr-17, May-1, May-17, May-25, Jun-4, Jun-5, Dec-25, Dec-26

2018: Jan-1, Mar-29, Mar-30, Apr-1, Apr-2, May-1, May-10, May-17, May-20, May-21, Dec-25, Dec-26

2019: Jan-1, Apr-18, Apr-19, Apr-21, Apr-22, May-1, May-17, May-30, Jun-9, Jun-10, Dec-25, Dec-26

### Poland

2012: Jan-1, Jan-6, Apr-8, Apr-9, May-1, May-3, May-27, Jun-7, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2013: Jan-1, Jan-6, Mar-31, Apr-1, May-1, May-3, May-19, May-30, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2014: Jan-1, Jan-6, Apr-20, Apr-21, May-1, May-3, Jun-8, Jun-19, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2015: Jan-1, Jan-6, Apr-5, Apr-6, May-1, May-3, May-24, Jun-4, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2016: Jan-1, Jan-6, Mar-27, Mar-28, May-1, May-3, May-15, May-26, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2017: Jan-1, Jan-6, Apr-16, Apr-17, May-1, May-3, Jun-4, Jun-15, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

2018: Jan-1, Jan-6, Apr-1, Apr-2, May-1, May-3, May-20, May-31, Aug-15, Nov-1, Nov-11, Nov-12, Dec-25, Dec-26

2019: Jan-1, Jan-6, Apr-21, Apr-22, May-1, May-3, Jun-9, Jun-20, Aug-15, Nov-1, Nov-11, Dec-25, Dec-26

### Portugal

2012: Jan-1, Feb-21, Apr-6, Apr-8, Apr-25, May-1, Jun-7, Jun-10, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2013: Jan-1, Feb-12, Mar-29, Mar-31, Apr-25, May-1, May-30, Jun-10, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2014: Jan-1, Mar-4, Apr-18, Apr-20, Apr-25, May-1, Jun-10, Jun-19, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2015: Jan-1, Feb-17, Apr-3, Apr-5, Apr-25, May-1, Jun-4, Jun-10, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2016: Jan-1, Feb-9, Mar-25, Mar-27, Apr-25, May-1, May-26, Jun-10, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2017: Jan-1, Feb-28, Apr-14, Apr-16, Apr-25, May-1, Jun-10, Jun-15, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2018: Jan-1, Feb-13, Mar-30, Apr-1, Apr-25, May-1, May-31, Jun-10, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

2019: Jan-1, Mar-5, Apr-19, Apr-21, Apr-25, May-1, Jun-10, Jun-20, Aug-15, Oct-5, Nov-1, Dec-1, Dec-8, Dec-25

### South Africa

2012: Jan-1, Mar-21, Apr-6, Apr-9, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2013: Jan-1, Mar-21, Mar-29, Apr-1, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2014: Jan-1, Mar-21, Apr-18, Apr-21, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2015: Jan-1, Mar-21, Apr-3, Apr-6, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2016: Jan-1, Mar-21, Mar-25, Mar-28, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2017: Jan-1, Mar-21, Apr-14, Apr-17, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2018: Jan-1, Mar-21, Mar-30, Apr-2, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

2019: Jan-1, Mar-21, Apr-19, Apr-22, Apr-27, May-1, Jun-16, Aug-9, Sep-24, Dec-16, Dec-25, Dec-26

### Spain

2012: Jan-1, Jan-6, Apr-6, Apr-8, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2013: Jan-1, Jan-6, Mar-29, Mar-31, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2014: Jan-1, Jan-6, Apr-18, Apr-20, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2015: Jan-1, Jan-6, Apr-3, Apr-5, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2016: Jan-1, Jan-6, Mar-25, Mar-27, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2017: Jan-1, Jan-6, Apr-14, Apr-16, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2018: Jan-1, Jan-6, Mar-30, Apr-1, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

2019: Jan-1, Jan-6, Apr-19, Apr-21, May-1, Aug-15, Oct-12, Nov-1, Dec-6, Dec-8, Dec-25

### Sweden

2012: Jan-1, Jan-6, Apr-6, Apr-8, Apr-9, May-1, May-17, Jun-6, Jun-22, Jun-23, Nov-3, Dec-24, Dec-25, Dec-26, Dec-31

2013: Jan-1, Jan-6, Mar-29, Mar-31, Apr-1, May-1, May-9, Jun-6, Jun-21, Jun-22, Nov-2, Dec-24, Dec-25, Dec-26, Dec-31

2014: Jan-1, Jan-6, Apr-18, Apr-20, Apr-21, May-1, May-29, Jun-6, Jun-20, Jun-21, Nov-1, Dec-24, Dec-25, Dec-26, Dec-31

2015: Jan-1, Jan-6, Apr-3, Apr-5, Apr-6, May-1, May-14, Jun-6, Jun-19, Jun-20, Oct-31, Dec-24, Dec-25, Dec-26, Dec-31

2016: Jan-1, Jan-6, Mar-25, Mar-27, Mar-28, May-1, May-5, Jun-6, Jun-24, Jun-25, Nov-5, Dec-24, Dec-25, Dec-26, Dec-31

2017: Jan-1, Jan-6, Apr-14, Apr-16, Apr-17, May-1, May-25, Jun-6, Jun-23, Jun-24, Nov-4, Dec-24, Dec-25, Dec-26, Dec-31

2018: Jan-1, Jan-6, Mar-30, Apr-1, Apr-2, May-1, May-10, Jun-6, Jun-22, Jun-23, Nov-3, Dec-24, Dec-25, Dec-26, Dec-31

2019: Jan-1, Jan-6, Apr-19, Apr-21, Apr-22, May-1, May-30, Jun-6, Jun-21, Jun-22, Nov-2, Dec-24, Dec-25, Dec-26, Dec-31

### Switzerland

2012: Jan-1, May-17, Aug-1, Dec-25

2013: Jan-1, May-9, Aug-1, Dec-25

2014: Jan-1, May-29, Aug-1, Dec-25

2015: Jan-1, May-14, Aug-1, Dec-25

2016: Jan-1, May-5, Aug-1, Dec-25

2017: Jan-1, May-25, Aug-1, Dec-25

2018: Jan-1, May-10, Aug-1, Dec-25

2019: Jan-1, May-30, Aug-1, Dec-25

### Turkey

2012: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2013: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2014: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2015: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2016: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2017: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2018: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

2019: Jan-1, Apr-23, May-1, May-19, Jul-15, Aug-30, Oct-29

### United Kingdom

2012: Apr-6, Apr-9, May-7, May-28, Dec-25, Dec-26

2013: Jan-1, Mar-29, Apr-1, May-6, May-27, Dec-25, Dec-26

2014: Jan-1, Apr-18, Apr-21, May-5, May-26, Dec-25, Dec-26

2015: Jan-1, Apr-3, Apr-6, May-4, May-25, Dec-25, Dec-28

2016: Jan-1, Mar-25, Mar-28, May-2, May-30, Dec-26, Dec-27

2017: Apr-14, Apr-17, May-1, May-29, Dec-25, Dec-26

2018: Jan-1, Mar-30, Apr-2, May-7, May-28, Dec-25, Dec-26

2019: Jan-1, Apr-19, Apr-22, May-6, May-27, Dec-25, Dec-26

### United States

2012: Jan-2, Jan-16, Feb-20, May-28, Jul-4, Sep-3, Nov-12, Nov-22, Dec-25

2013: Jan-1, Jan-21, Feb-18, May-27, Jul-4, Sep-2, Nov-11, Nov-28, Dec-25

2014: Jan-1, Jan-20, Feb-17, May-26, Jul-4, Sep-1, Nov-11, Nov-27, Dec-25

2015: Jan-1, Jan-19, Feb-16, May-25, Jul-3, Sep-7, Nov-11, Nov-26, Dec-25

2016: Jan-1, Jan-18, Feb-15, May-30, Jul-4, Sep-5, Nov-11, Nov-24, Dec-26

2017: Jan-2, Jan-16, Feb-20, May-29, Jul-4, Sep-4, Nov-10, Nov-23, Dec-25

2018: Jan-1, Jan-15, Feb-19, May-28, Jul-4, Sep-3, Nov-12, Nov-22, Dec-25

2019: Jan-1, Jan-21, Feb-18, May-27, Jul-4, Sep-2, Nov-11, Nov-28, Dec-25