**Data is shown in a single tab and comprises the full dataset needed for the analyses to replicate this study.**

**Tab ‘Incubation onset’**

**Year:** year when data from a certain nestbox was collected. Either 2015, 2016 or 2017.

**Site:** breeding population where a nestbox belongs: P = Pina, Quintos = Q and S = Sagunto.

**Nest:** Alphanumeric code of a nestbox. Codes are unique.

**LD:** Laying date, date when a female laid the first egg of a clutch. 1 = 1st April.

**CS:** Clutch size, number of total eggs laid by a female in a nest.

**TPset\_eggday:** Egg day when a thermocouple was placed in a nest. Egg day 1 = laying date.

**NPI\_eggday:** Egg day when a female started Nocturnal Partial Incubation. Egg day 1 = laying date.

**NPI\_day**: Number of days that Nocturnal Partial Incubation lasted.

**NPI\_mins:** Total sum of minutes that Nocturnal Partial Incubation lasted.

**NPI\_minsCC:** Total sum of minutes that Nocturnal Partial Incubation lasted until the female completed the clutch.

**NPI\_minsFI:** Total sum of minutes that Nocturnal Partial Incubation lasted until the start of diurnal Full Incubation.

**T\_NPI:** Mean ambient temperature (ºC) during Nocturnal Partial Incubation.

**NFI\_eggday:** Egg day when a female started Nocturnal Full Incubation. Egg day 1 = laying date.

**NFI\_ccday:** Day when a female started Nocturnal Full Incubation in relation to the clutch completion. Clutch completion = 0. Starting before clutch completion implies negative values.

**NFI\_early:** Number of days that Nocturnal Full Incubation lasted until the clutch was complete.

**NFI\_daysFI:** Number of days until females established Diurnal Full Incubation.

**T\_toPI:** Mean ambient temperature (ºC) since a thermocouple was placed in a nest until the start of Diurnal Partial Incubation.

**PI\_eggday:** Egg day when a female started Diurnal Partial Incubation. Egg day 1 = laying date.

**PI\_ccday:** Day when a female started Diurnal Partial Incubation in relation to the clutch completion. Clutch completion = 0. Starting before clutch completion implies negative values

**PI\_day**: Number of days that Diurnal Partial Incubation lasted.

**PI\_mins:** Total sum of minutes that Diurnal Partial Incubation lasted.

**PI\_minsCC:** Total sum of minutes that Diurnal Partial Incubation lasted until the female completed the clutch.

**T\_PI**: Mean ambient temperature (ºC) during Diurnal Partial incubation.

**FI\_eggday:** Egg day when a female started Diurnal Full Incubation. Egg day 1 = laying date.

**FI\_ccday:** Day when a female started Diurnal Full Incubation in relation to the clutch completion. Clutch completion = 0. Starting before clutch completion implies negative values.

**FI\_early:** Number of days that Diurnal Full Incubation lasted until the clutch was complete.

**HD:** Hatching date, day that the first eggs was born in a nest. 1 = 1st April.

**HL\_ratio:** Ration between the lightest and the heaviest hatching of the nest. Measured when the last nestling hatched.

**Inc\_length:** Number of days since the day diurnal full incubation started until the day before the first hatchling appeared.