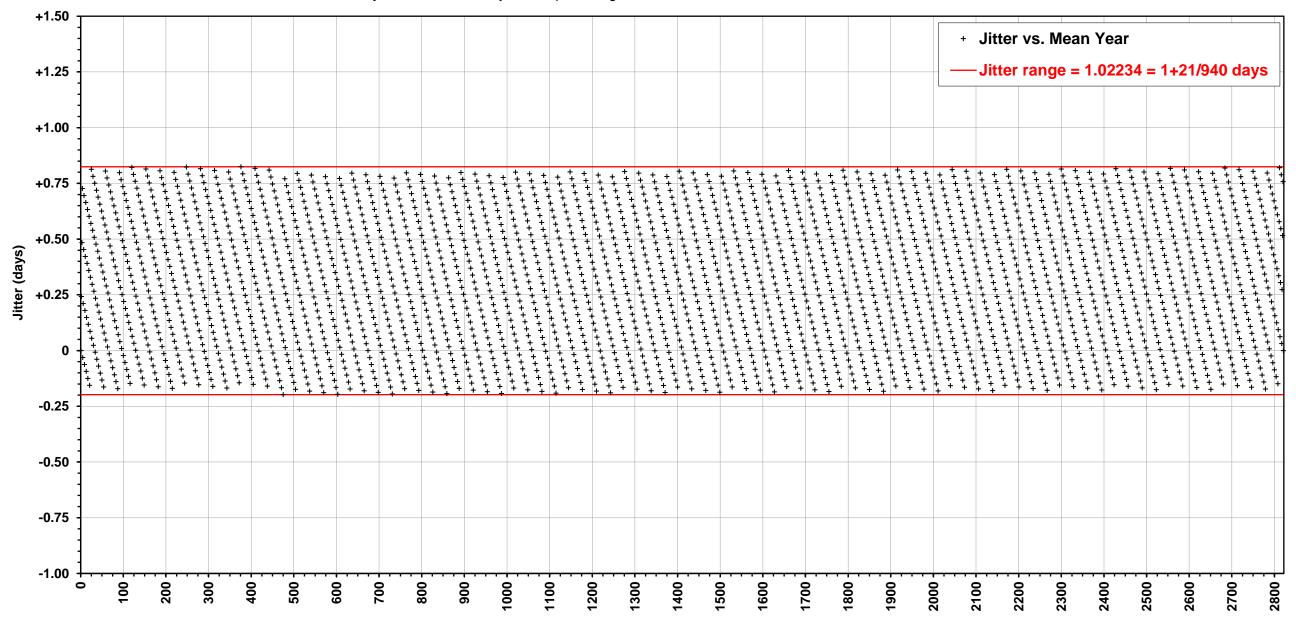
Arithmetic Persian (Birashk) 2820-Year Leap Cycle Jitter

Year is a leap year if the **remainder** of { [(*year* + 38) x 31] / 128 } is less than 31 where *year* is shifted +474 years as per Reingold & Dershowitz, "Calendrical Calculations: The Ultimate Edition"



Year (excessively long cycle, mean year of $365+^{683}/_{2820}$ days = 365d 5h 48m $45+^{45}/_{47}$ s = about 365.24219858 days, approximates mean tropical year)