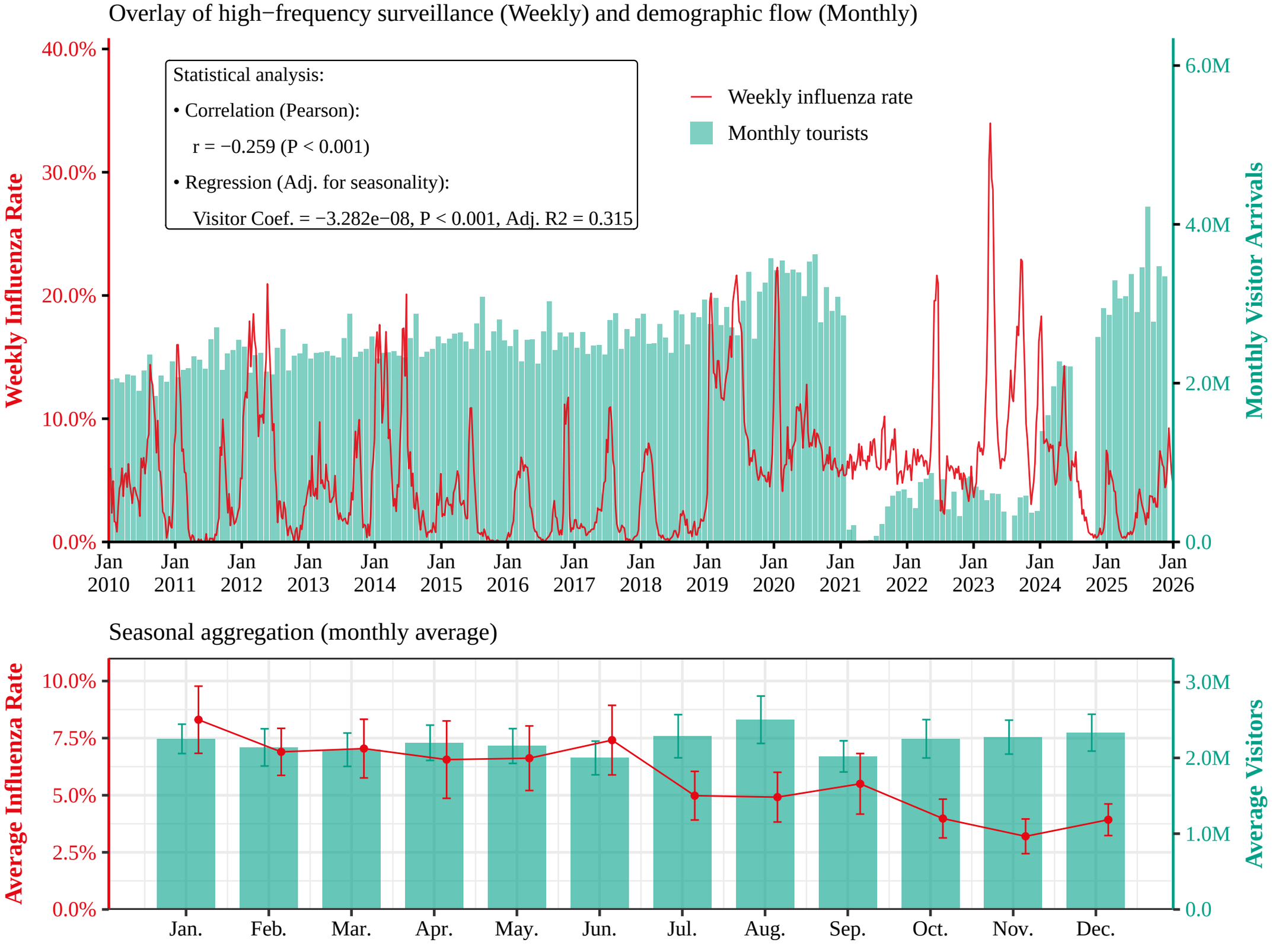
Overlay of high−frequency surveillance (Weekly) and demographic flow (Monthly)
Statistical analysis:
• Correlation (Pearson):
r = −0.259 (P < 0.001)
• Regression (Adj. for seasonality):
Visitor Coef. = −3.282e−08, P < 0.001, Adj. R2 = 0.315
Weekly influenza rate
Monthly tourists
Weekly Influenza Rate
Monthly Visitor Arrivals
40.0%
30.0%
20.0%
10.0%
0.0%
6.0M
4.0M
2.0M
0.0
Jan 2010
Jan 2011
Jan 2012
Jan 2013
Jan 2014
Jan 2015
Jan 2016
Jan 2017
Jan 2018
Jan 2019
Jan 2020
Jan 2021
Jan 2022
Jan 2023
Jan 2024
Jan 2025
Jan 2026
Seasonal aggregation (monthly average)
Average Influenza Rate
Average Visitors
10.0%
7.5%
5.0%
2.5%
0.0%
3.0M
2.0M
1.0M
0.0
Jan.
Feb.
Mar.
Apr.
May.
Jun.
Jul.
Aug.
Sep.
Oct.
Nov.
Dec.