



Figure S4: FPCA results at sites in QC, NB, PE, and NS combined (top row) and in NL alone (bottom row): after the same preprocessing procedure as for BC: (a) and (c) show the mean functions which present similar trends of monotonic increasing bacteria levels from the 20th to around the 35th week; differing from the mean functions, over 95% of the variance were explained by (b) and (d), the top 2 FPCs (with proportions of variance explained in the brackets), in both scenarios.