Supplementary Material

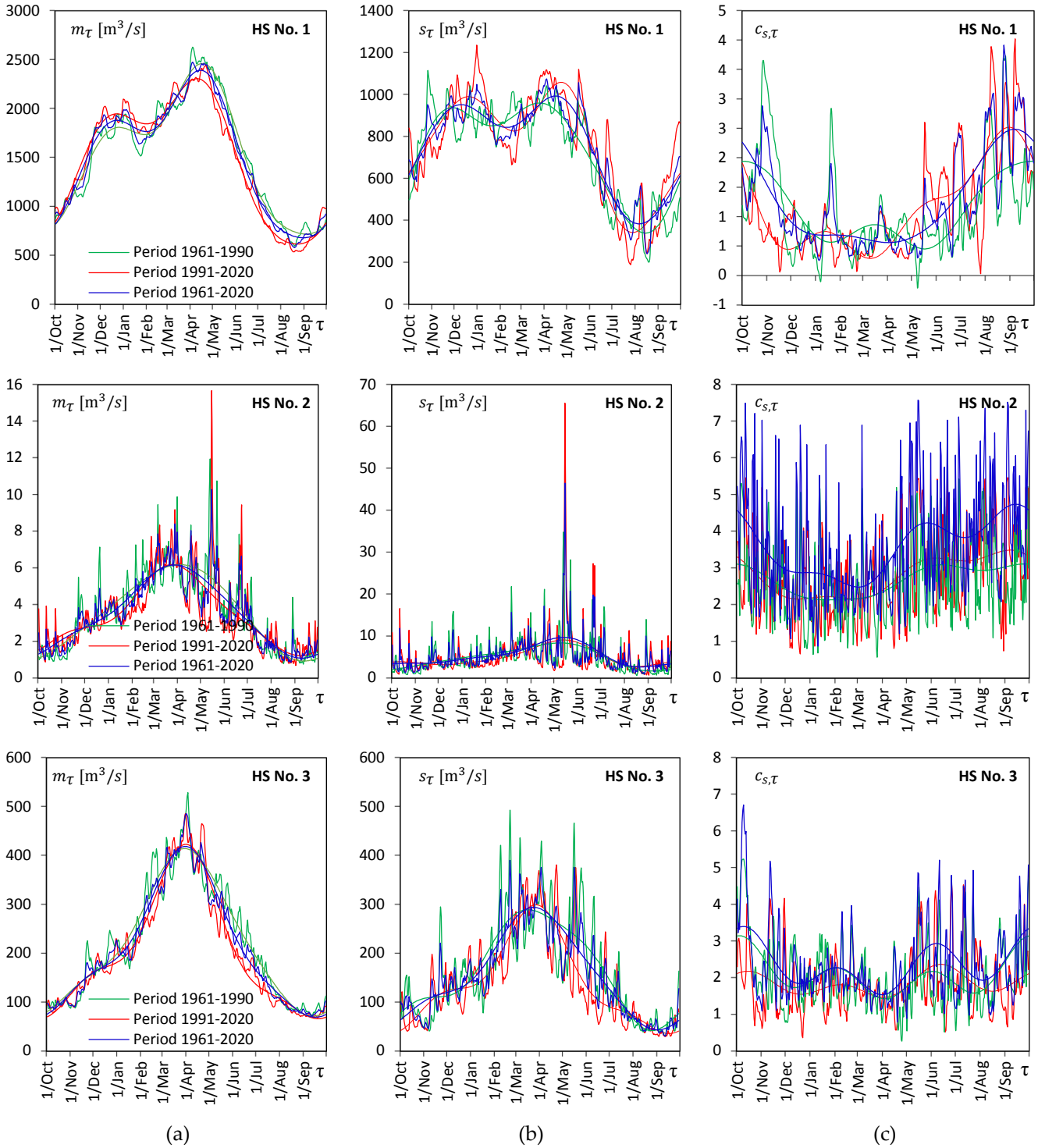

Figure S1. Seasonal variation of daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

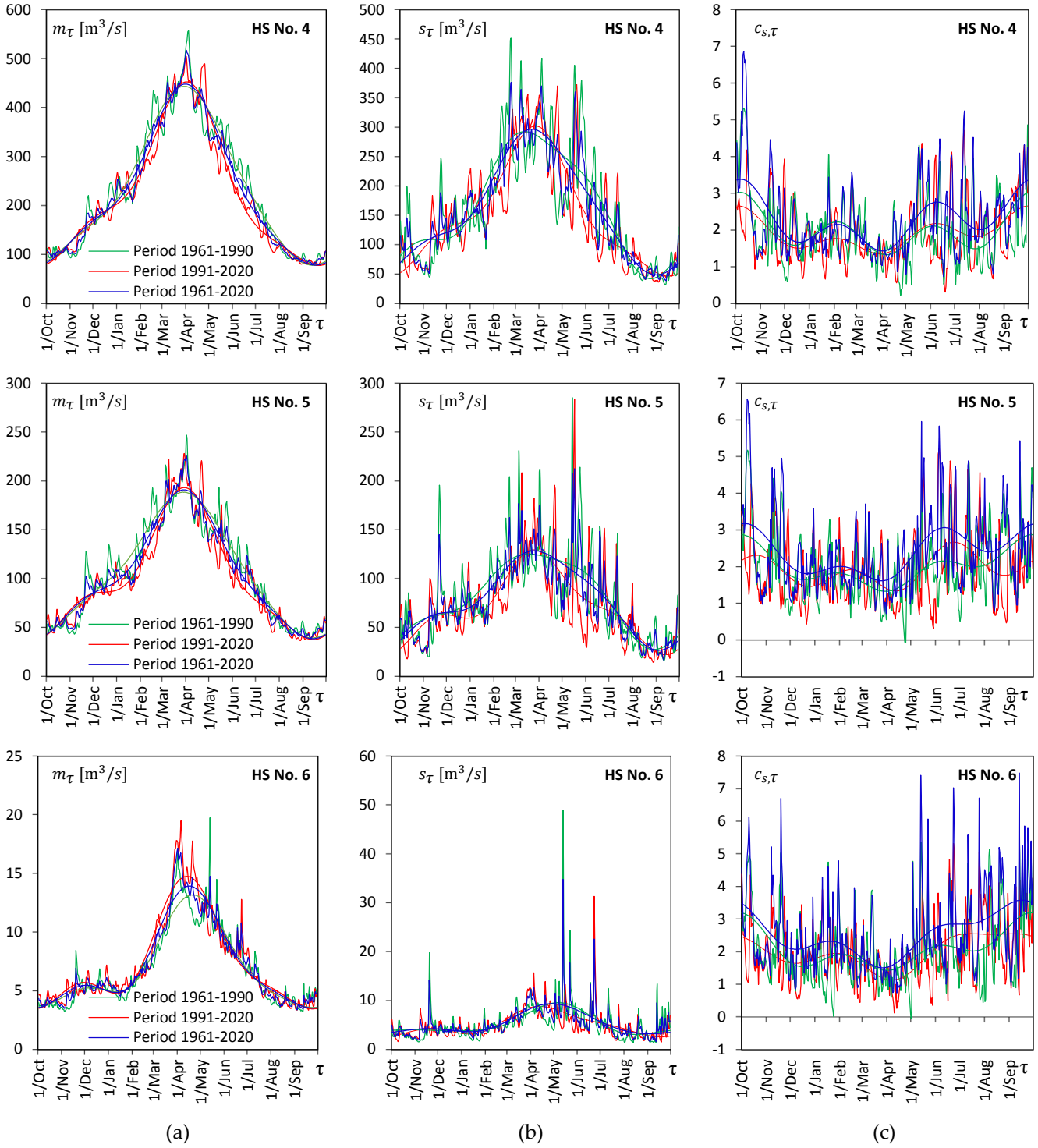

Figure S1-cont'd. Seasonal variation of daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

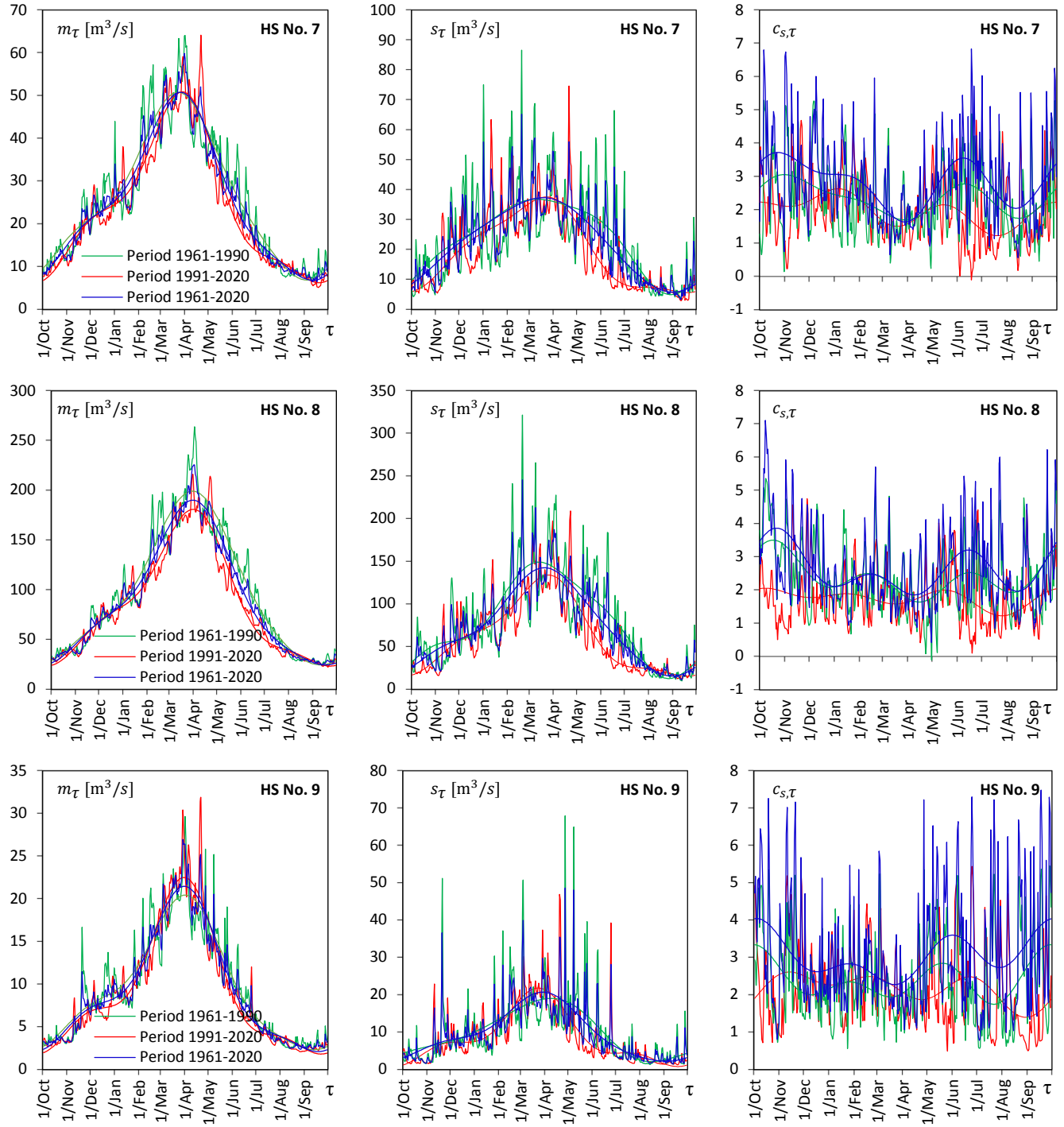

Figure S1-cont'd. Seasonal variation of daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

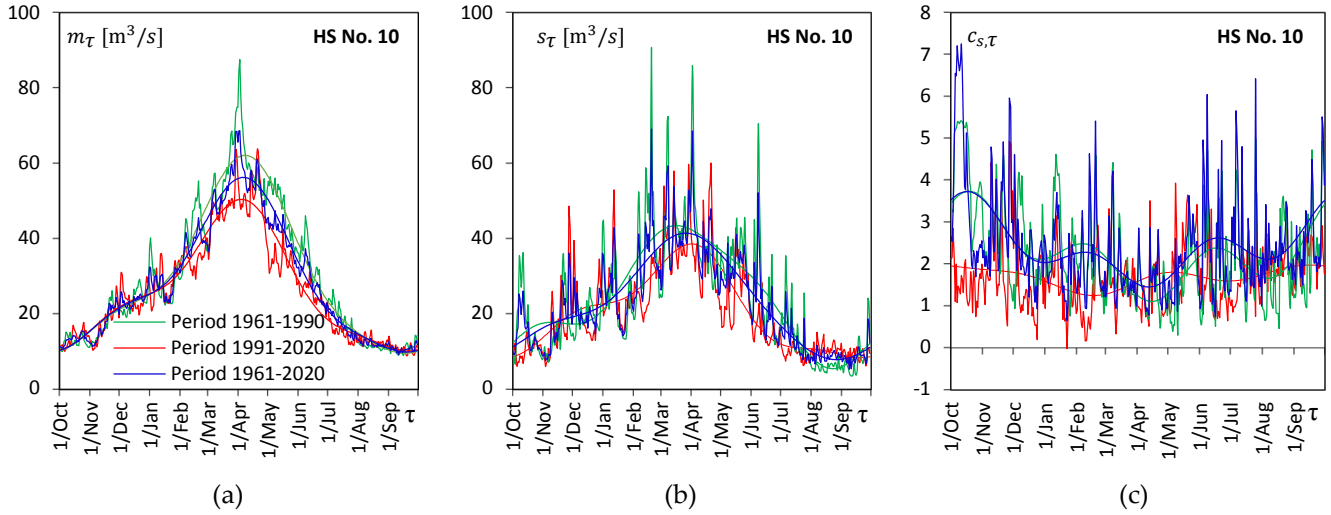

Figure S1-cont'd. Seasonal variation of daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

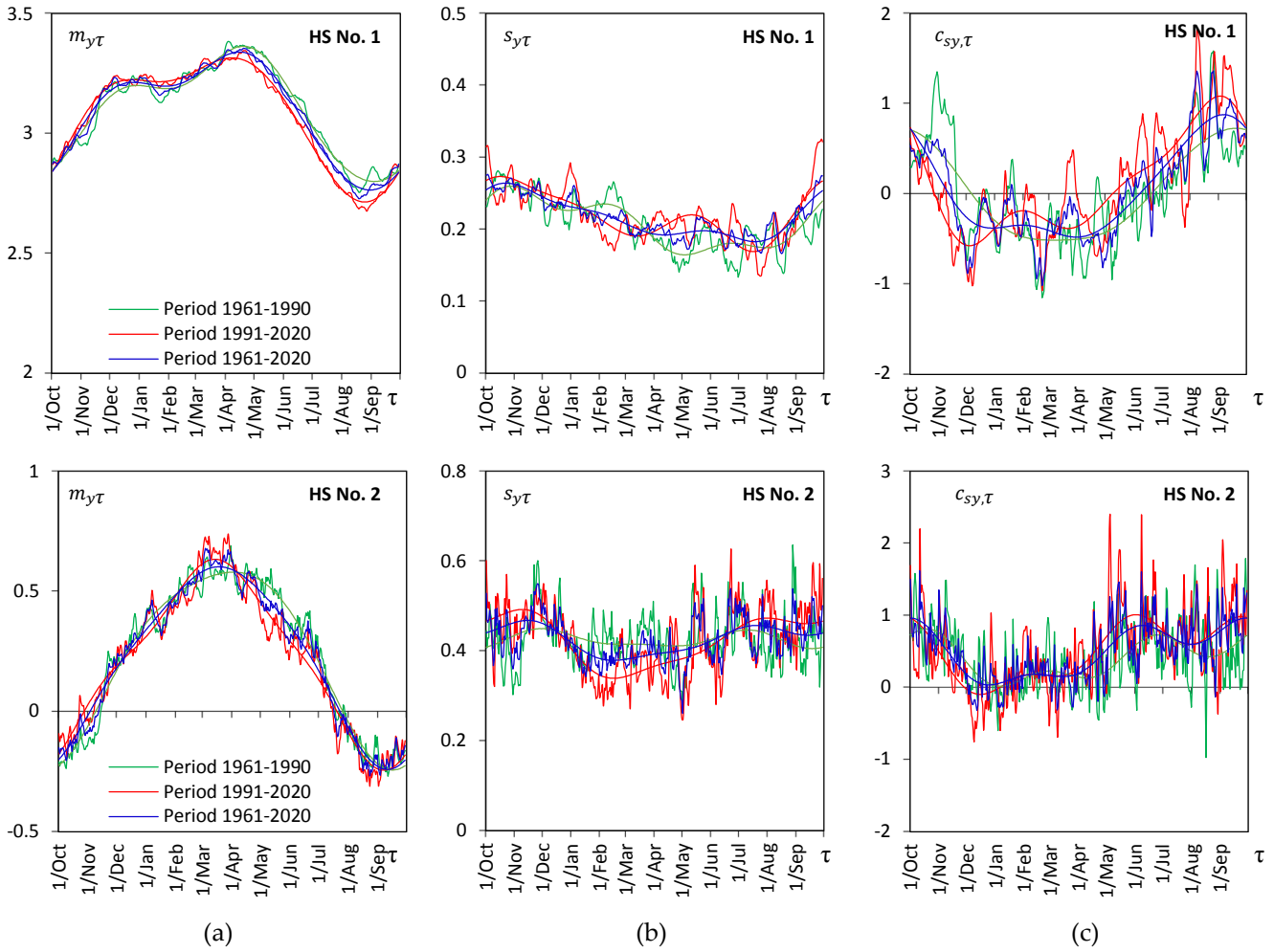

Figure S2. Seasonal variation of log-transformed daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

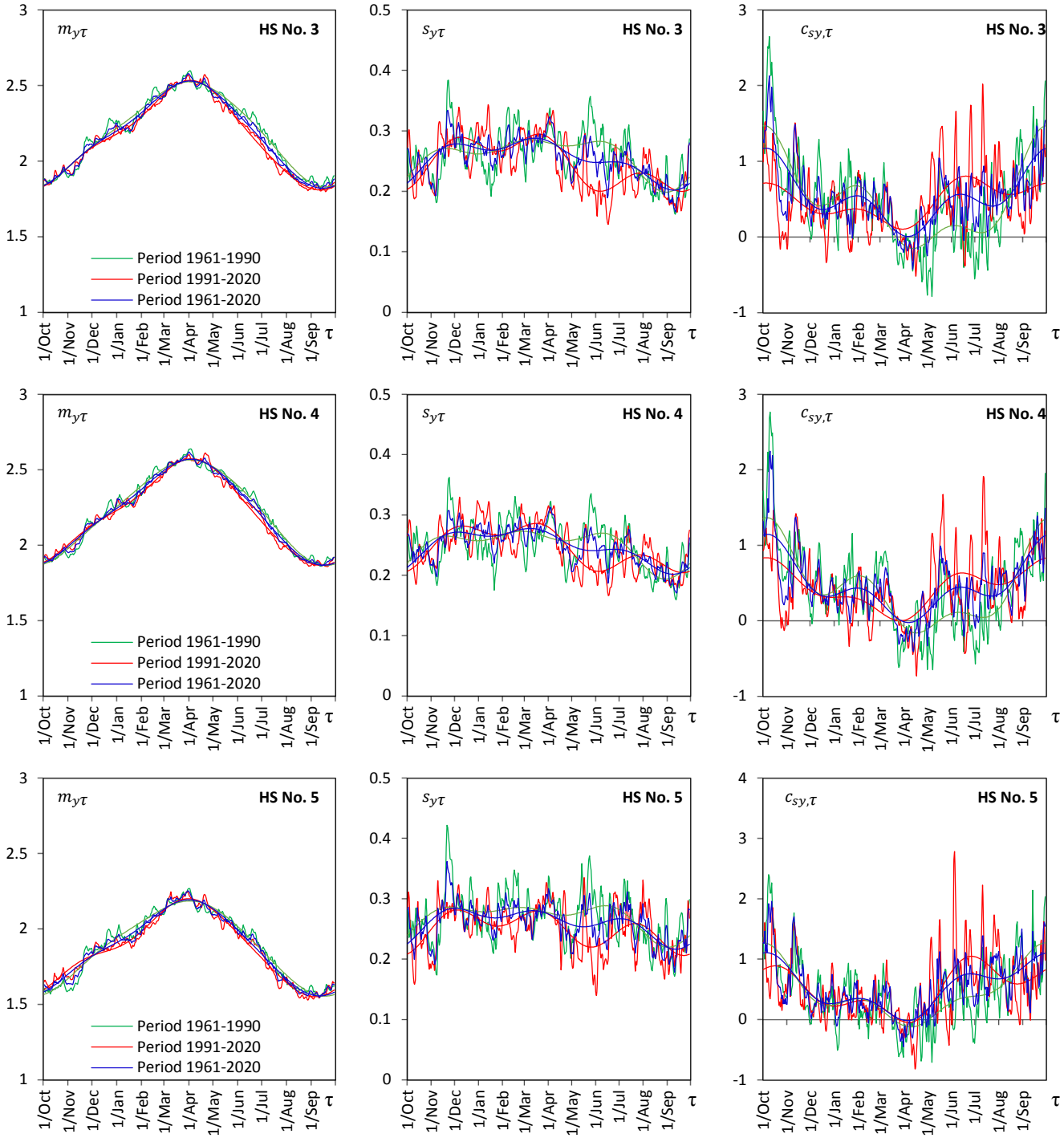

Figure S2-cont'd. Seasonal variation of log-transformed daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

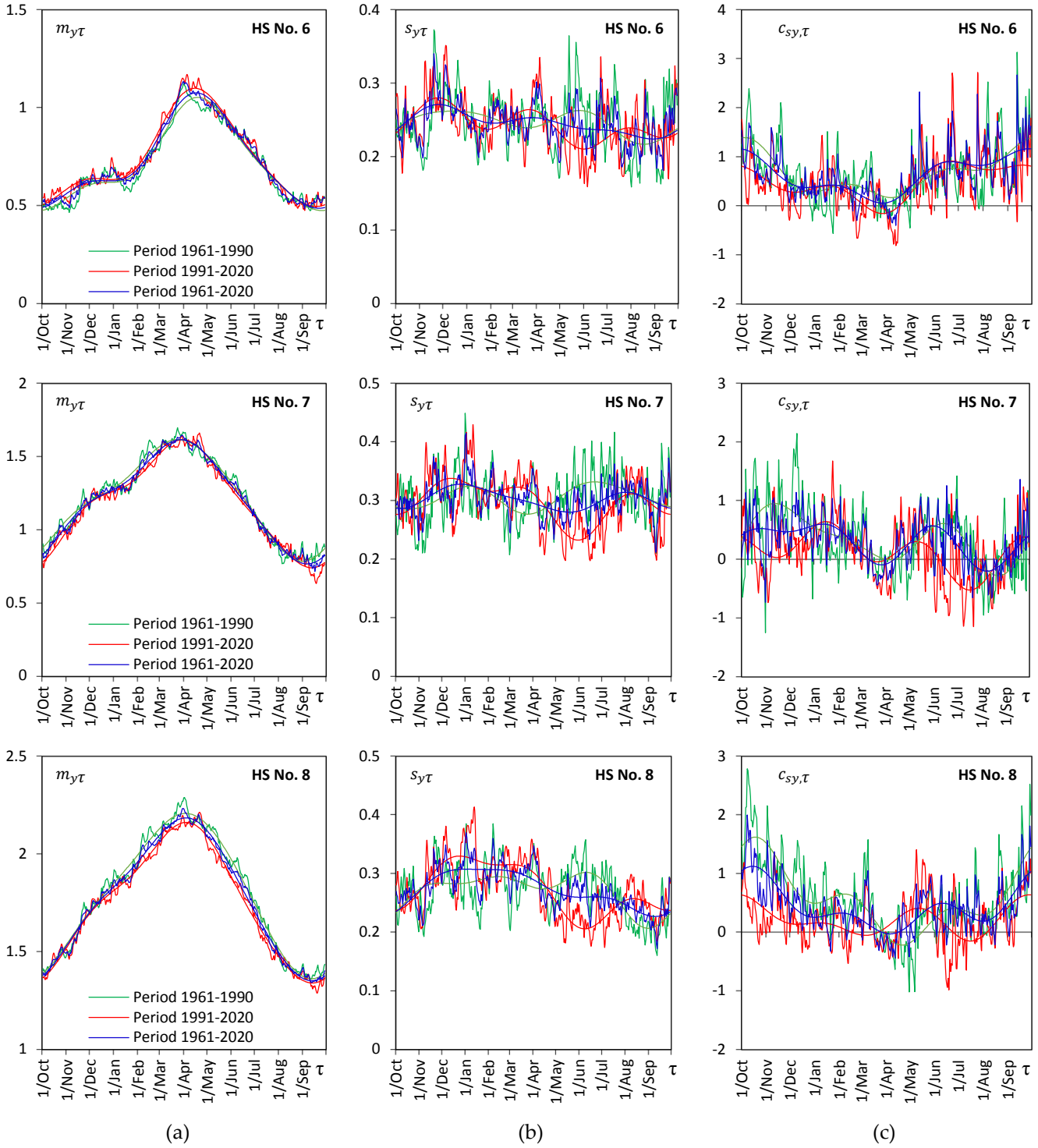

Figure S2-cont'd. Seasonal variation of log-transformed daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

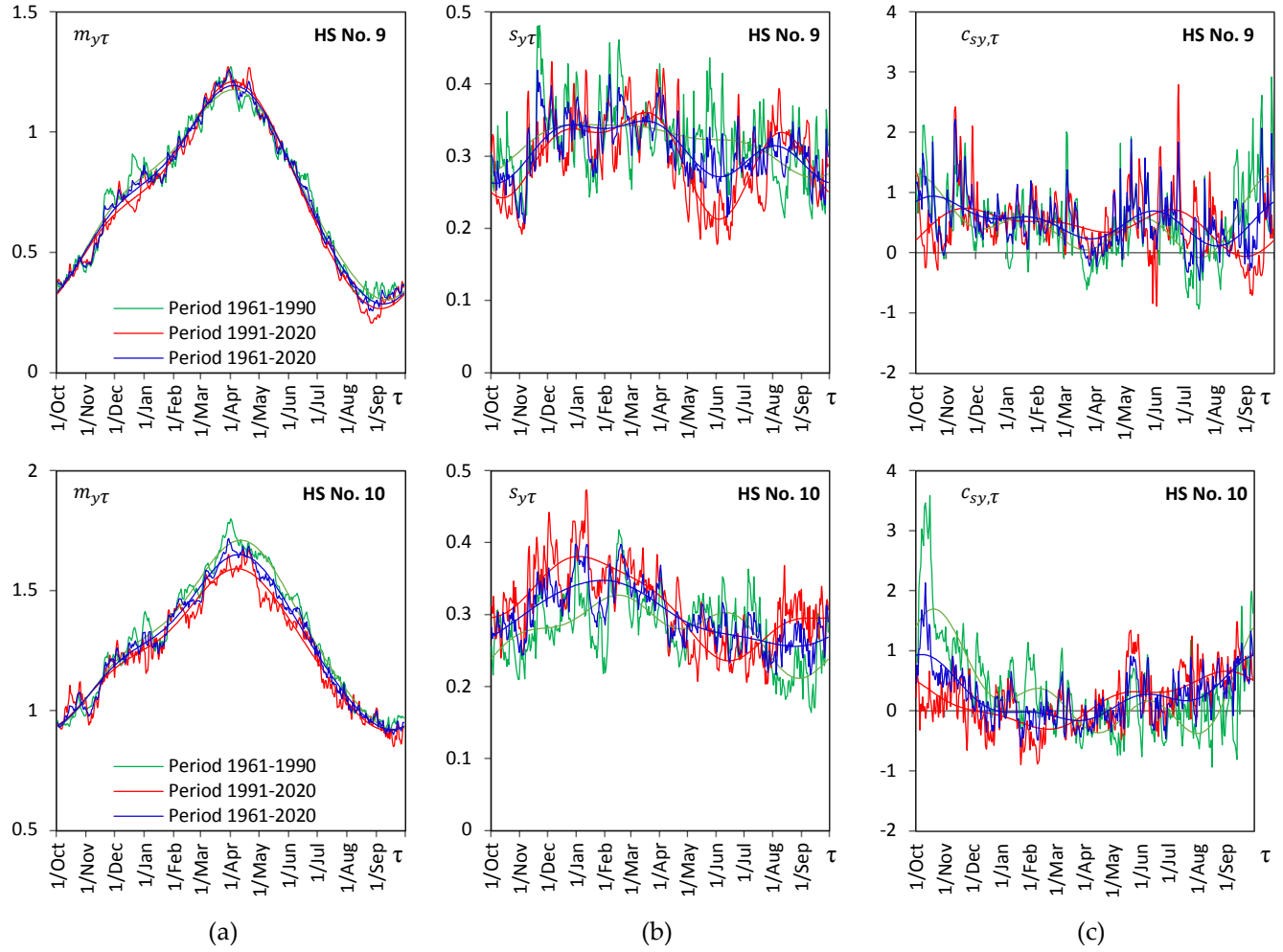

Figure S2-cont'd. Seasonal variation of log-transformed daily flow statistics (peaky lines) and their corresponding periodic functions (smooth lines) at all HS estimated for the three periods: (a) mean, (b) standard deviation, and (c) coefficient of skewness.

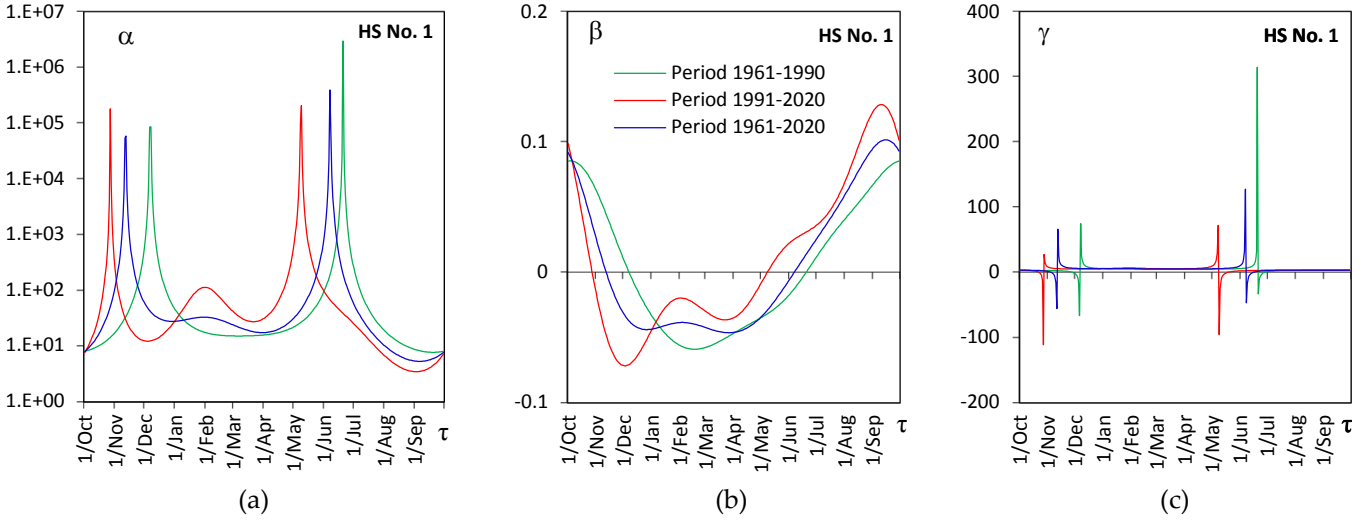

Figure S3. Periodical parameters of LPT3 marginal distribution of daily flows at all HS: (a) shape parameter $\alpha_{\tau,per}$, (b) scale parameter $\beta_{\tau,per}$, (c) location parameter $\gamma_{\tau,per}$.

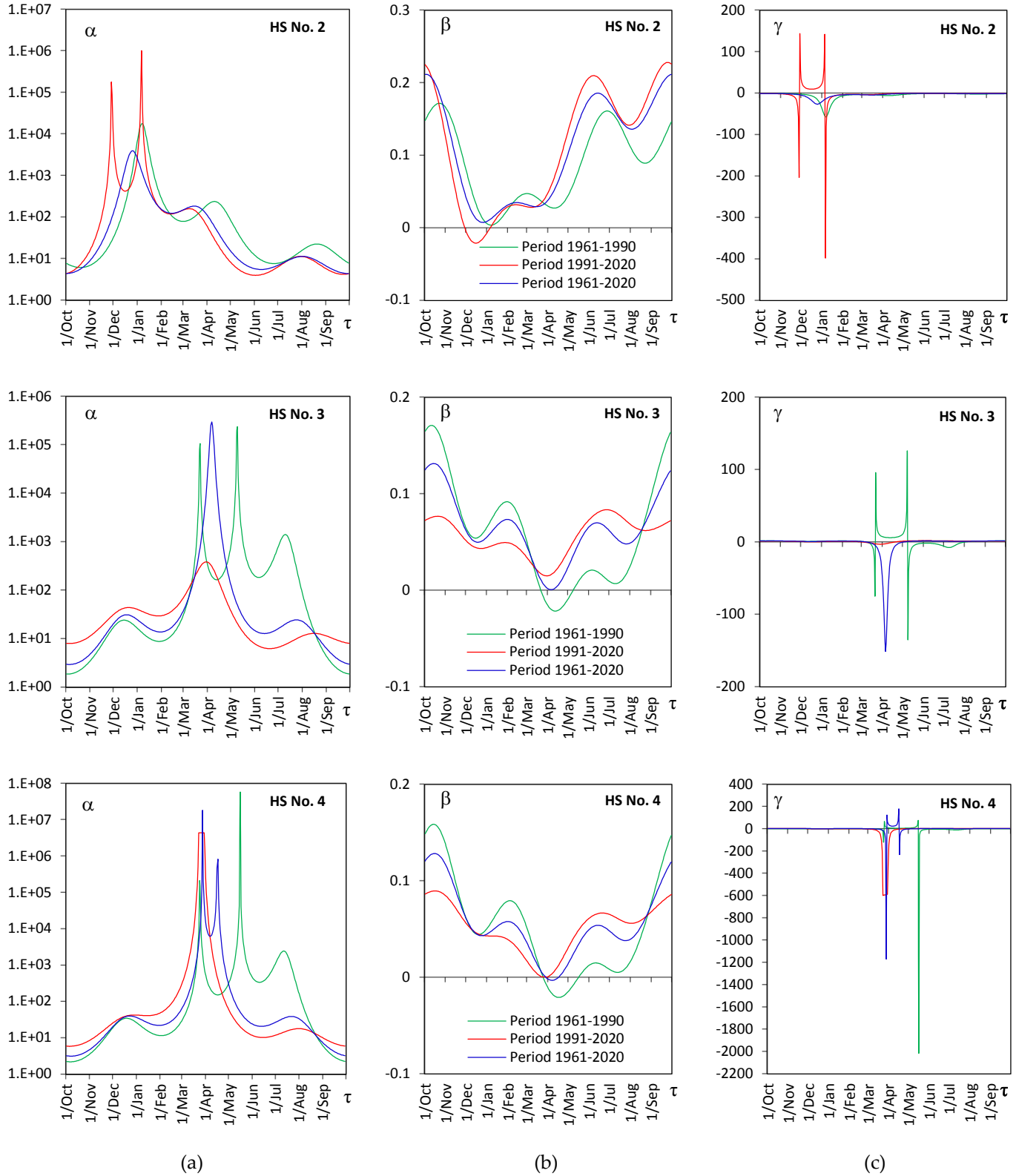

Figure S3-cont'd. Periodical parameters of LPT3 marginal distribution of daily flows at all HS: (a) shape parameter $\alpha\tau,per$, (b) scale parameter $\beta\,\tau,per$, (c) location parameter $\gamma\,\tau,per$.

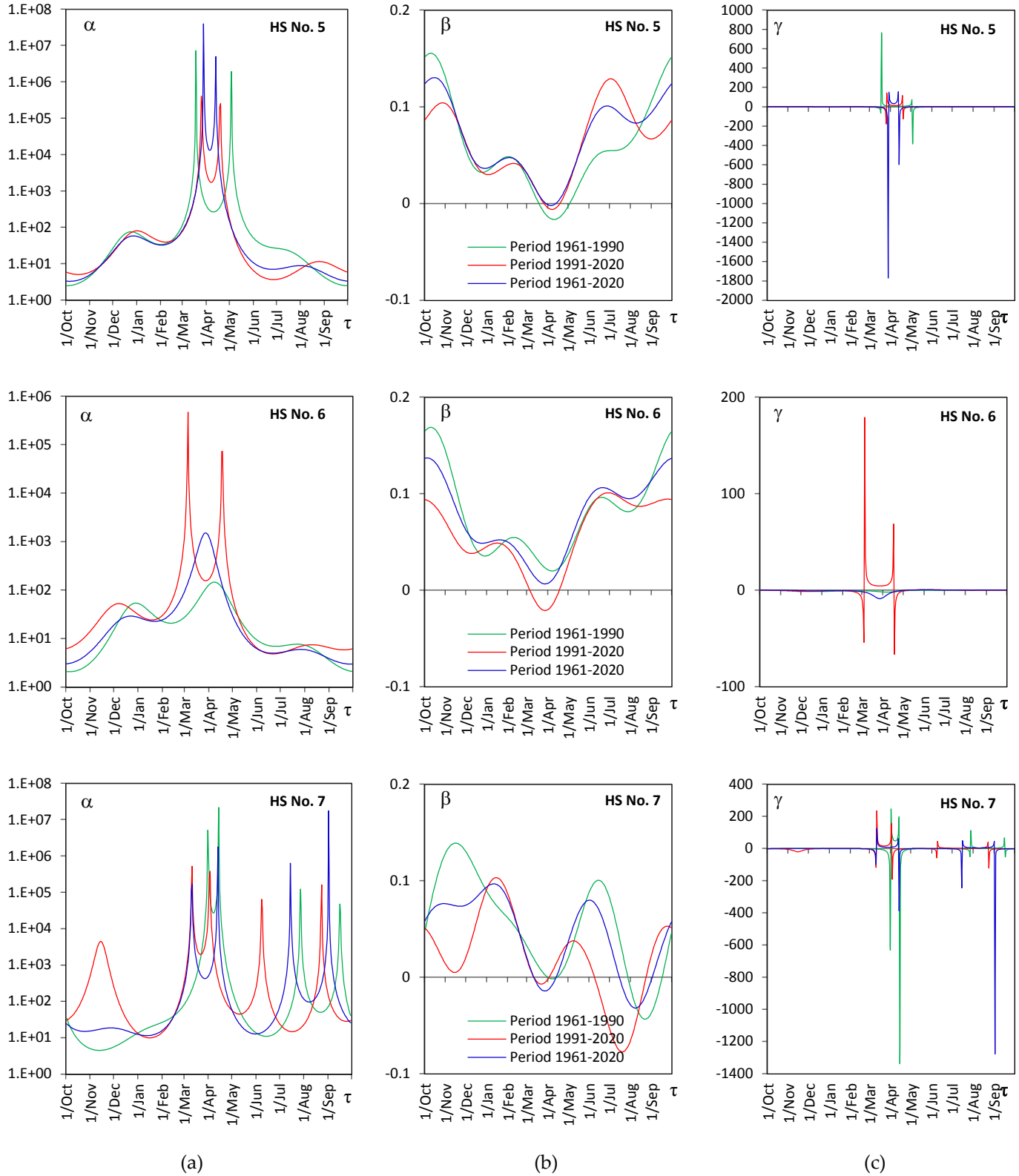

Figure S3-cont'd. Periodical parameters of LPT3 marginal distribution of daily flows at all HS: (a) shape parameter $\alpha\tau,per$, (b) scale parameter $\beta\,\tau,per$, (c) location parameter $\gamma\,\tau,per$.

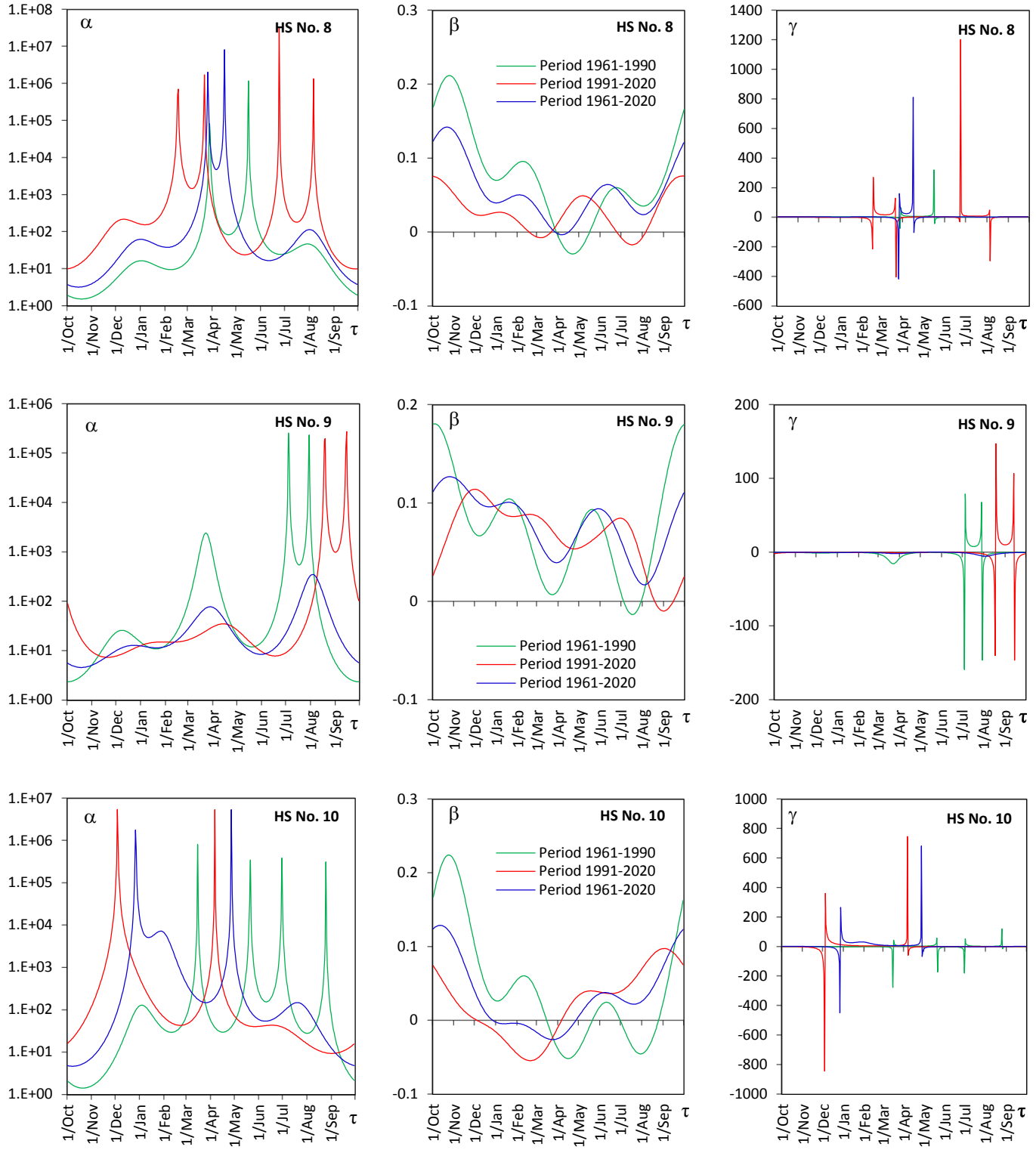

Figure S3-cont'd. Periodical parameters of LPT3 marginal distribution of daily flows at all HS: (a) shape parameter $\alpha\tau,per$, (b) scale parameter $\beta\,\tau,per$, (c) location parameter $\gamma\,\tau,per$.

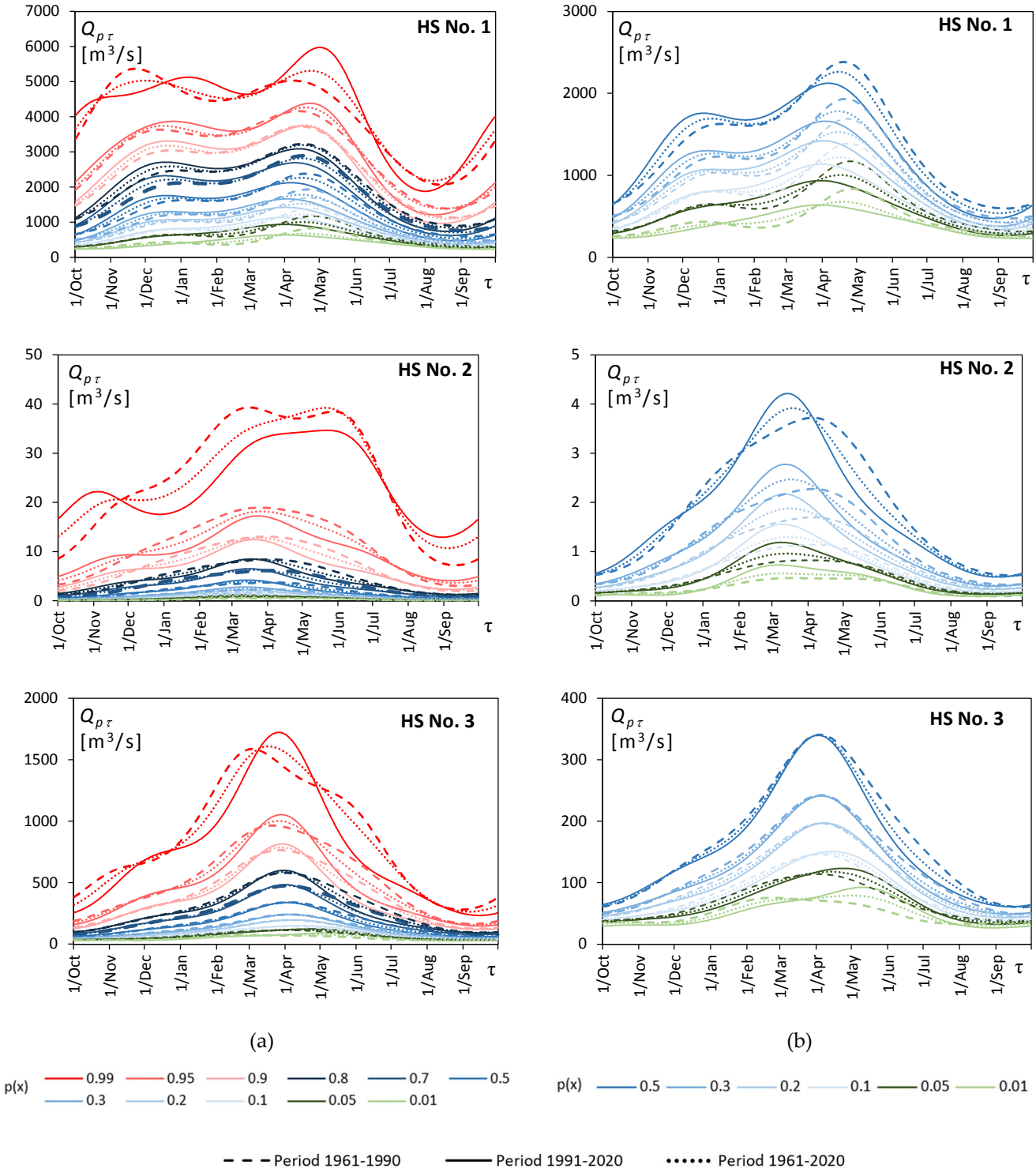

Figure S4. The diagrams of MDDF at all HS for the three periods showing the quantiles (a) for a full range of probabilities $p(x)$, from 0.01 to 0.99, and (b) for low to median probabilities. Solid lines represent the latest 1991-2020 period, the dashed lines represent the earlier 1961-1990 period, and the dotted lines represent the whole 1961-2020 period.

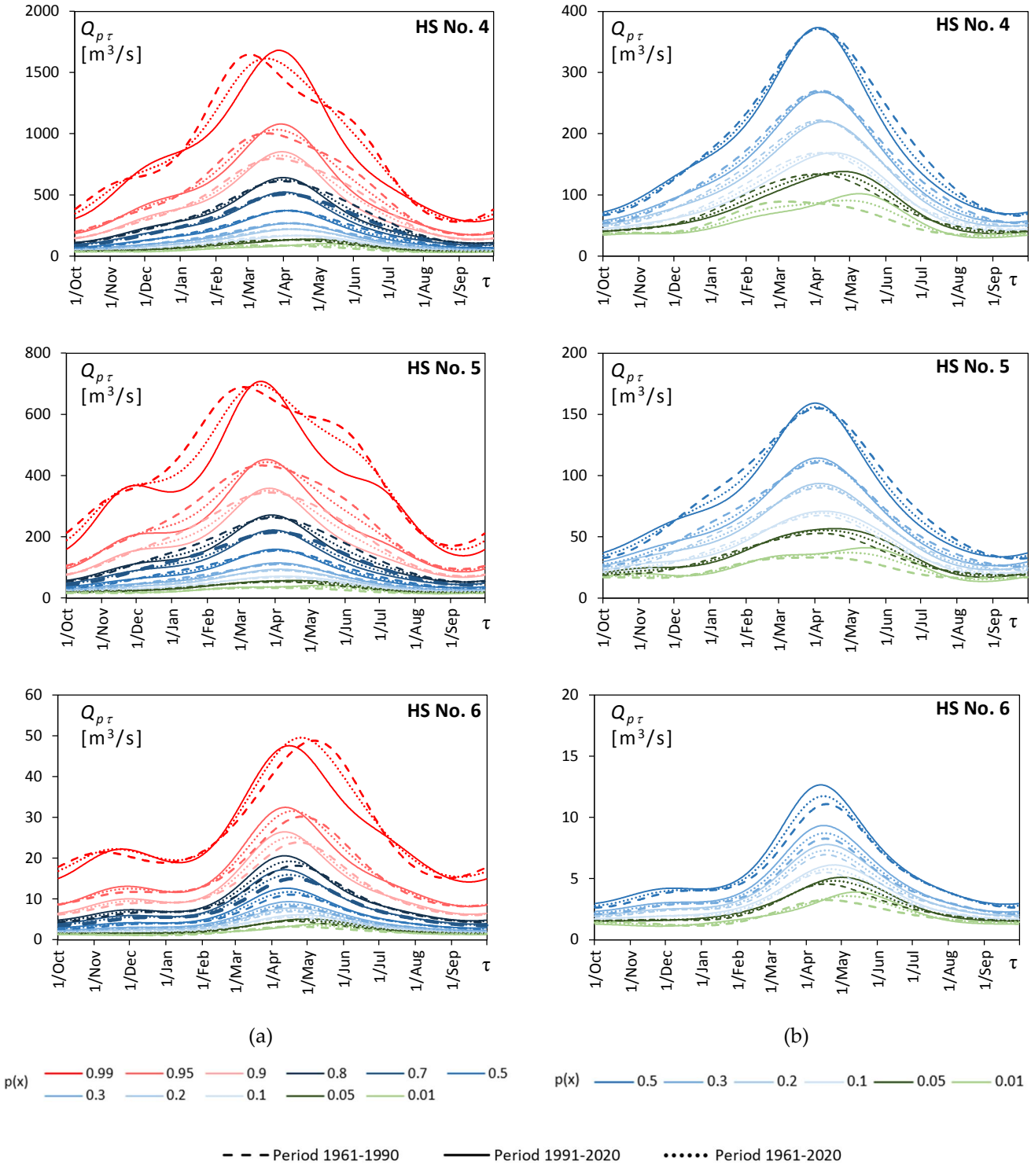

Figure S4- cont'd. The diagrams of MDDF at all HS for the three periods showing the quantiles (a) for a full range of probabilities $p(x)$, from 0.01 to 0.99, and (b) for low to median probabilities. Solid lines represent the latest 1991-2020 period, the dashed lines represent the earlier 1961-1990 period, and the dotted lines represent the whole 1961-2020 period.

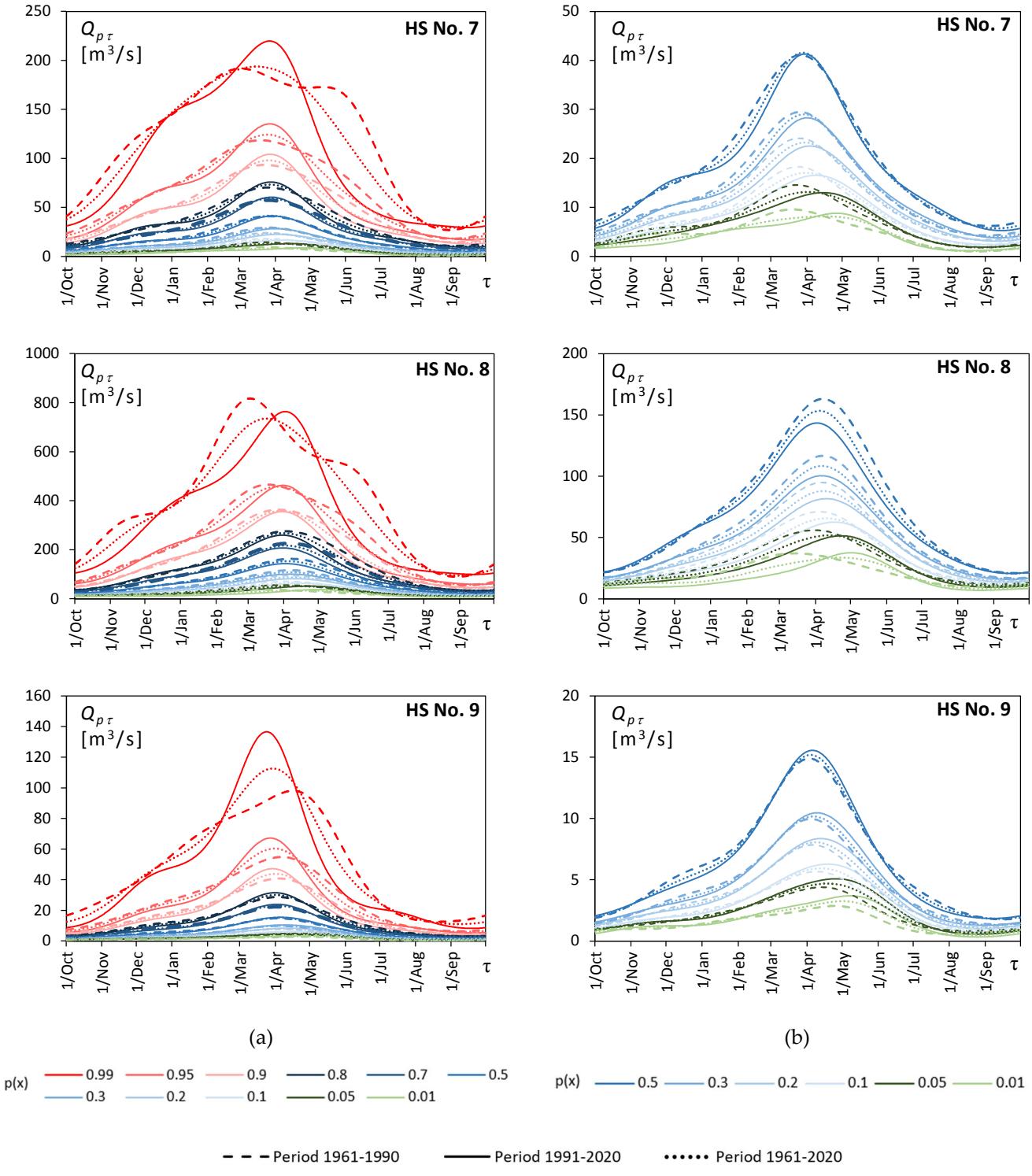

Figure S4- cont'd. The diagrams of MDDF at all HS for the three periods showing the quantiles (a) for a full range of probabilities $p(x)$, from 0.01 to 0.99, and (b) for low to median probabilities. Solid lines represent the latest 1991-2020 period, the dashed lines represent the earlier 1961-1990 period, and the dotted lines represent the whole 1961-2020 period.

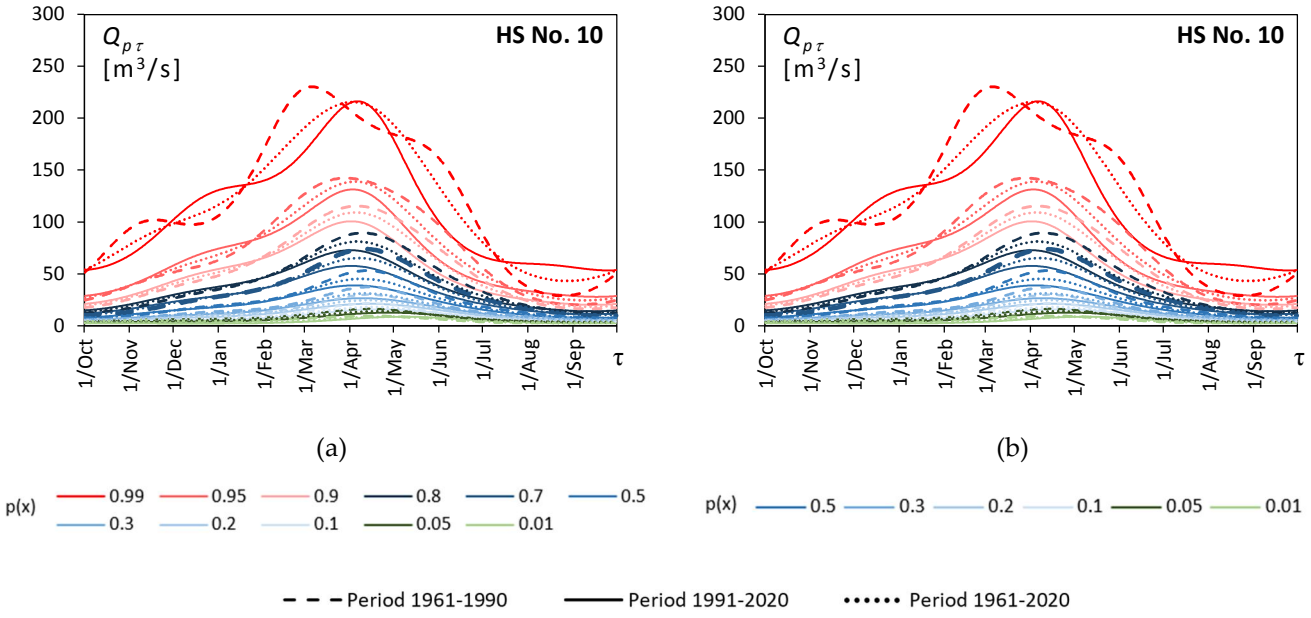

Figure S4- cont'd. The diagrams of MDDF at all HS for the three periods showing the quantiles (a) for a full range of probabilities $p(x)$, from 0.01 to 0.99, and (b) for low to median probabilities. Solid lines represent the latest 1991-2020 period, the dashed lines represent the earlier 1961-1990 period, and the dotted lines represent the whole 1961-2020 period.