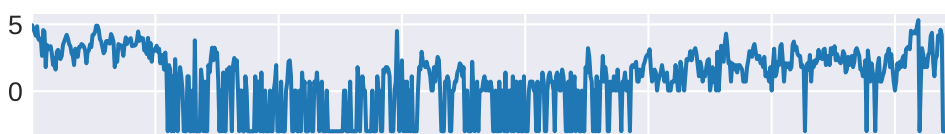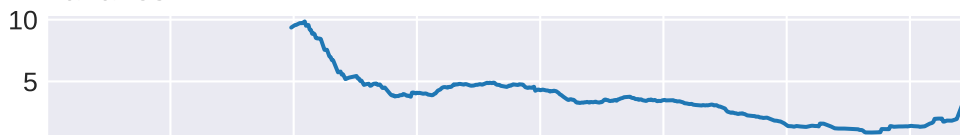observed-log-mean-impute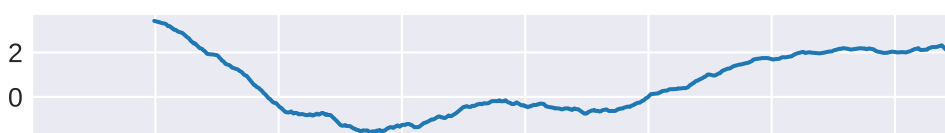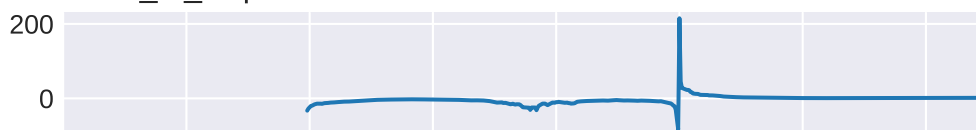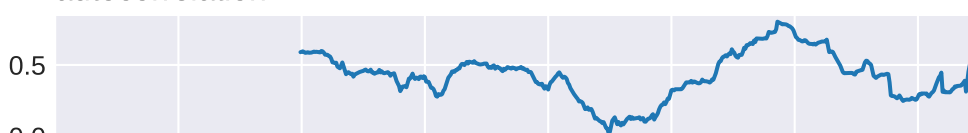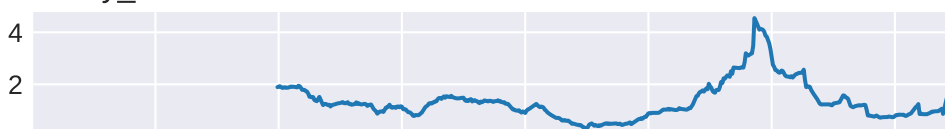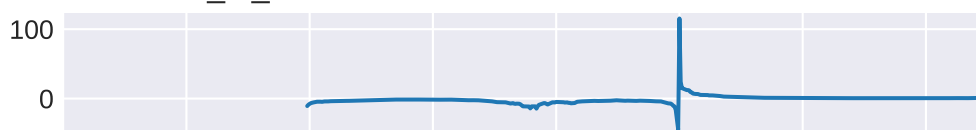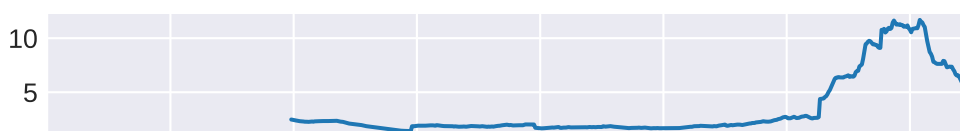d