



Adventures in Bayesian Structural Time Series

Part 3: Analyzing SST Data

Andrew Bates, Josh Gloyd, Tyler Tucker





⊠ SST Data



- ⊠ SST Data
- ⊠ Use **bsts** for



- ⊠ SST Data
- ⊠ Use **bsts** for
 - ⊠ Fit



- ❖ SST Data
- ❖ Use **bsts** for
 - ❖ Fit
 - ❖ local level



- ⊠ SST Data
- ⊠ Use **bsts** for
 - ⊠ Fit
 - ⊠ local level
 - ⊠ local linear trend model



- ⊠ SST Data
- ⊠ Use **bsts** for
 - ⊠ Fit
 - ⊠ local level
 - ⊠ local linear trend model
 - ⊠ local trend with seasonality



- ⊠ SST Data
- ⊠ Use **bsts** for
 - ⊠ Fit
 - ⊠ local level
 - ⊠ local linear trend model
 - ⊠ local trend with seasonality
 - ⊠ Posterior distribution



- ⊠ SST Data
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 - ⊠ local level
 - ⊠ local linear trend model
 - ⊠ local trend with seasonality
 - ⊠ Posterior distribution
 - ⊠ Forecast



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- ⊠ Use **bsts** for
 - ⊠ Fit
 - ⊠ local level
 - ⊠ local linear trend model
 - ⊠ local trend with seasonality
 - ⊠ Posterior distribution
 - ⊠ Forecast
 - ⊠ Model Comparison



⊗ Sea Surface Temperature near Gibraltar



- ⊠ Sea Surface Temperature near Gibraltar
- ⊠ Collected every 12 days



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- ⊠ Collected every 12 days
- ⊠ January 2004 to November 2017



- ⊠ Sea Surface Temperature near Gibraltar
- ⊠ Collected every 12 days
- ⊠ January 2004 to November 2017
- ⊠ Obtained from [Argovis](#)



SST of Gilbralter region

