

```
plot(baguiorainseriesforecasts)
```

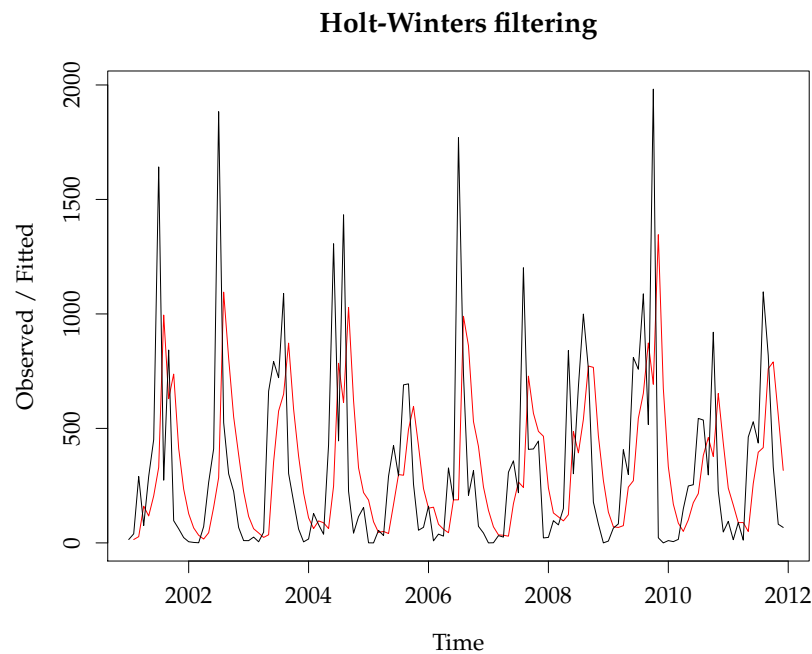


Figure 4.5: The original rainfall time series with the predicted values of the derived model in the same period.

The output of `HoltWinters()` function was stored in the variable `baguiorainseriesforecasts$fitted`. The forecast for the period January 2000 to December 2011 is shown partially in Figure (4.6), and in full in Figure (B.1) of **Appendix B**.

We now make forecasts for further time points by using the `forecast.HoltWinters()` function in the R forecast package. `forecast.HoltWinters()` uses the predictive model derived using the `HoltWinters()` function. The result is in Figure (4.7).

```
library(forecast)
```

```
This is forecast 4.01
```

```
baguiorainseriesforecasts2 <- forecast.HoltWinters(
  baguiorainseriesforecasts,
  h = 12)
baguiorainseriesforecasts2
```

	Point Forecast	Lo 80	Hi 80	Lo 95	Hi 95
Jan 2012	59.32	-366.29	484.9	-591.60	710.2
Feb 2012	40.91	-384.70	466.5	-610.01	691.8