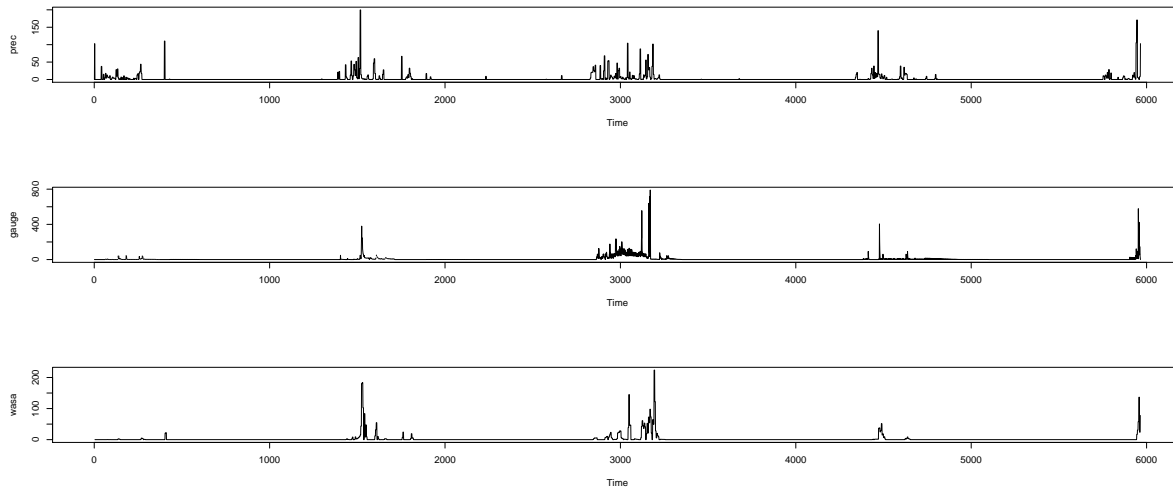


```

> rgs<-read.table('sum_rsd.out', header=T, na.string='NaN')
> attach(rgs)
> names(rgs)
[1] "prec" "gauge" "wasa"
> ts.plot(prec)
> ts.plot(gauge)
> ts.plot(wasa)

```



```

> prec<-as.ts(prec)
> gauge<-as.ts(gauge)
> wasa<-as.ts(wasa)
> mod1<-lm(gauge[1000:2000] ~ prec[1000:2000])
> mod3<-lm(gauge[4000:5000] ~ prec[4000:5000])
> mod2<-lm(gauge[2500:3500] ~ prec[2500:3500])
> mod4<-lm(gauge[5500:6000] ~ prec[5500:6000])
>
> summary(mod1)

```

```

Call:
lm(formula = gauge[1000:2000] ~ prec[1000:2000])

```

Residuals:

Min	1Q	Median	3Q	Max
-11.370	-4.369	-4.369	-3.729	375.145

Coefficients:

Estimate	Std. Error	t value	Pr(> t )

```

(Intercept)      4.3687      0.7847      5.567 3.34e-08 ***
prec[1000:2000]  0.1052      0.0462      2.278  0.0230 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Residual standard error: 23.73 on 973 degrees of freedom
(26 observations deleted due to missingness)
Multiple R-Squared: 0.005304, Adjusted R-squared: 0.004282
F-statistic: 5.189 on 1 and 973 DF, p-value: 0.02295

```

```
> summary(mod3)
```

```

Call:
lm(formula = gauge[4000:5000] ~ prec[4000:5000])

```

```

Residuals:
      Min       1Q   Median       3Q      Max
-15.2405  -3.2312  -2.5712  -0.2787  400.0570

```

```

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)    3.23117    0.51652   6.256 5.86e-10 ***
prec[4000:5000] 0.08570    0.04779   1.793  0.0733 .
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

```

Residual standard error: 15.9 on 999 degrees of freedom
Multiple R-Squared: 0.003208, Adjusted R-squared: 0.00221
F-statistic: 3.215 on 1 and 999 DF, p-value: 0.07327

```

```
> summary(mod4)
```

```

Call:
lm(formula = gauge[5500:6000] ~ prec[5500:6000])

```

```

Residuals:
      Min       1Q   Median       3Q      Max
-39.365  -5.431  -5.431  -5.431  571.111

```

```

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)    5.43134    1.87802   2.892  0.00401 **
prec[5500:6000] 0.28758    0.09437   3.047  0.00244 **
---

```

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 39.48 on 464 degrees of freedom  
(35 observations deleted due to missingness)

Multiple R-Squared: 0.01962, Adjusted R-squared: 0.01751

F-statistic: 9.287 on 1 and 464 DF, p-value: 0.002439

> summary(mod2)

Call:

lm(formula = gauge[2500:3500] ~ prec[2500:3500])

Residuals:

Min	1Q	Median	3Q	Max
-78.823	-22.087	-22.087	3.933	764.083

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	22.0870	1.9842	11.131	< 2e-16 ***
prec[2500:3500]	0.5780	0.1225	4.719	2.71e-06 ***

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 59.08 on 999 degrees of freedom

Multiple R-Squared: 0.02181, Adjusted R-squared: 0.02083

F-statistic: 22.27 on 1 and 999 DF, p-value: 2.708e-06

>

> a<-sum(prec[1000:2000],na.rm=TRUE)\*0.25\*0.001\*550000000

> b<-sum(gauge[1000:2000],na.rm=TRUE)\*0.25\*24\*3600

> b/(a/100)

[1] 17.62397

>

> a<-sum(prec[2500:3500],na.rm=TRUE)\*0.25\*0.001\*550000000

> b<-sum(gauge[2500:3500],na.rm=TRUE)\*0.25\*24\*3600

> b/(a/100)

[1] 72.42909

>

> a<-sum(prec[4000:5000],na.rm=TRUE)\*0.25\*0.001\*550000000

> b<-sum(gauge[4000:5000],na.rm=TRUE)\*0.25\*24\*3600

> b/(a/100)

[1] 21.6798

>

> a<-sum(prec[5500:6000],na.rm=TRUE)\*0.25\*0.001\*550000000

```
> b<-sum(gauge[5500:6000],na.rm=TRUE)*0.25*24*3600  
> b/(a/100)  
[1] 23.35642
```