> source('~/Dropbox/BFM/FitScript.Potomac.R')

summary(eList$Sample)

Date Q LogQ ConcLow ConcHigh Uncen

Min. :1984-10-02 Min. : 28.09 Min. :3.335 Min. :0.068 Min. :0.168 Min. :0.0000

1st Qu.:1991-10-15 1st Qu.: 100.52 1st Qu.:4.610 1st Qu.:1.370 1st Qu.:1.370 1st Qu.:1.0000

Median :1997-04-22 Median : 234.18 Median :5.456 Median :1.700 Median :1.700 Median :1.0000

Mean :1997-07-29 Mean : 493.80 Mean :5.531 Mean :1.771 Mean :1.772 Mean :0.9948

3rd Qu.:2001-09-20 3rd Qu.: 526.69 3rd Qu.:6.267 3rd Qu.:2.080 3rd Qu.:2.080 3rd Qu.:1.0000

Max. :2013-07-23 Max. :9259.49 Max. :9.133 Max. :9.220 Max. :9.220 Max. :1.0000

ConcAve Julian Month Day DecYear MonthSeq

Min. :0.118 Min. :49217 Min. : 1.000 Min. : 3.0 Min. :1985 Min. :1618

1st Qu.:1.370 1st Qu.:51786 1st Qu.: 4.000 1st Qu.:100.0 1st Qu.:1992 1st Qu.:1702

Median :1.700 Median :53802 Median : 7.000 Median :184.0 Median :1997 Median :1768

Mean :1.771 Mean :53900 Mean : 6.551 Mean :183.3 Mean :1998 Mean :1771

3rd Qu.:2.080 3rd Qu.:55414 3rd Qu.: 9.000 3rd Qu.:269.0 3rd Qu.:2002 3rd Qu.:1821

Max. :9.220 Max. :59738 Max. :12.000 Max. :366.0 Max. :2014 Max. :1963

SinDY CosDY yHat SE ConcHat

Min. :-1.00000 Min. :-1.00000 Min. :-0.7233 Min. :0.1547 Min. :0.5085

1st Qu.:-0.76235 1st Qu.:-0.72661 1st Qu.: 0.2979 1st Qu.:0.1982 1st Qu.:1.3843

Median : 0.00000 Median :-0.10738 Median : 0.5175 Median :0.2185 Median :1.7120

Mean :-0.01673 Mean :-0.05536 Mean : 0.4835 Mean :0.2189 Mean :1.7377

3rd Qu.: 0.72803 3rd Qu.: 0.61867 3rd Qu.: 0.6914 3rd Qu.:0.2389 3rd Qu.:2.0426

Max. : 0.99999 Max. : 0.99996 Max. : 1.6393 Max. :0.3067 Max. :5.3737

summary(Qdf)

X.01646500. X1.1.1970 X14000 X8916.36 X63.6883

'01646500':15917 1/1/1971: 1 Min. : 958 Min. : 731.4 Min. : 8.009

1/1/1972: 1 1st Qu.: 3820 1st Qu.: 2773.6 1st Qu.: 56.757

1/1/1973: 1 Median : 7900 Median : 5739.1 Median : 74.508

1/1/1974: 1 Mean : 13122 Mean : 7649.6 Mean : 71.845

1/1/1975: 1 3rd Qu.: 15300 3rd Qu.:10341.1 3rd Qu.: 90.917

1/1/1976: 1 Max. :334000 Max. :50592.5 Max. :100.000

(Other) :15911

summary(Date)

Min. 1st Qu. Median Mean 3rd Qu. Max.

"1970-01-02" "1980-11-24" "1991-10-17" "1991-10-17" "2002-09-08" "2013-07-31"

summary(Sample$Date)

Min. 1st Qu. Median Mean 3rd Qu. Max.

"1984-10-02" "1991-10-15" "1997-04-22" "1997-07-29" "2001-09-20" "2013-07-23"

summary(newSample)

Date Q.x LogQ ConcLow ConcHigh Uncen

Min. :1984-10-02 Min. : 28.09 Min. :3.335 Min. :0.068 Min. :0.168 Min. :0.0000

1st Qu.:1991-10-15 1st Qu.: 100.52 1st Qu.:4.610 1st Qu.:1.370 1st Qu.:1.370 1st Qu.:1.0000

Median :1997-04-22 Median : 234.18 Median :5.456 Median :1.700 Median :1.700 Median :1.0000

Mean :1997-07-29 Mean : 493.80 Mean :5.531 Mean :1.771 Mean :1.772 Mean :0.9948

3rd Qu.:2001-09-20 3rd Qu.: 526.69 3rd Qu.:6.267 3rd Qu.:2.080 3rd Qu.:2.080 3rd Qu.:1.0000

Max. :2013-07-23 Max. :9259.49 Max. :9.133 Max. :9.220 Max. :9.220 Max. :1.0000

ConcAve Julian Month Day DecYear MonthSeq

Min. :0.118 Min. :49217 Min. : 1.000 Min. : 3.0 Min. :1985 Min. :1618

1st Qu.:1.370 1st Qu.:51786 1st Qu.: 4.000 1st Qu.:100.0 1st Qu.:1992 1st Qu.:1702

Median :1.700 Median :53802 Median : 7.000 Median :184.0 Median :1997 Median :1768

Mean :1.771 Mean :53900 Mean : 6.551 Mean :183.3 Mean :1998 Mean :1771

3rd Qu.:2.080 3rd Qu.:55414 3rd Qu.: 9.000 3rd Qu.:269.0 3rd Qu.:2002 3rd Qu.:1821

Max. :9.220 Max. :59738 Max. :12.000 Max. :366.0 Max. :2014 Max. :1963

SinDY CosDY yHat SE ConcHat

Min. :-1.00000 Min. :-1.00000 Min. :-0.7233 Min. :0.1547 Min. :0.5085

1st Qu.:-0.76235 1st Qu.:-0.72661 1st Qu.: 0.2979 1st Qu.:0.1982 1st Qu.:1.3843

Median : 0.00000 Median :-0.10738 Median : 0.5175 Median :0.2185 Median :1.7120

Mean :-0.01673 Mean :-0.05536 Mean : 0.4835 Mean :0.2189 Mean :1.7377

3rd Qu.: 0.72803 3rd Qu.: 0.61867 3rd Qu.: 0.6914 3rd Qu.:0.2389 3rd Qu.:2.0426

Max. : 0.99999 Max. : 0.99996 Max. : 1.6393 Max. :0.3067 Max. :5.3737

Q.y Qb Qp

Min. : 28.09 Min. : 20.95 Min. : 8.009

1st Qu.: 100.52 1st Qu.: 73.45 1st Qu.: 50.609

Median : 234.18 Median : 157.37 Median : 72.082

Mean : 493.80 Mean : 233.17 Mean : 68.023

3rd Qu.: 526.69 3rd Qu.: 305.64 3rd Qu.: 89.511

Max. :9259.49 Max. :1238.05 Max. :100.000

summary(ratio)

Min. 1st Qu. Median Mean 3rd Qu. Max.

1 1 1 1 1 1

fraction of data set censored 0.005203816 if greater than about 0.05 we should not proceed







