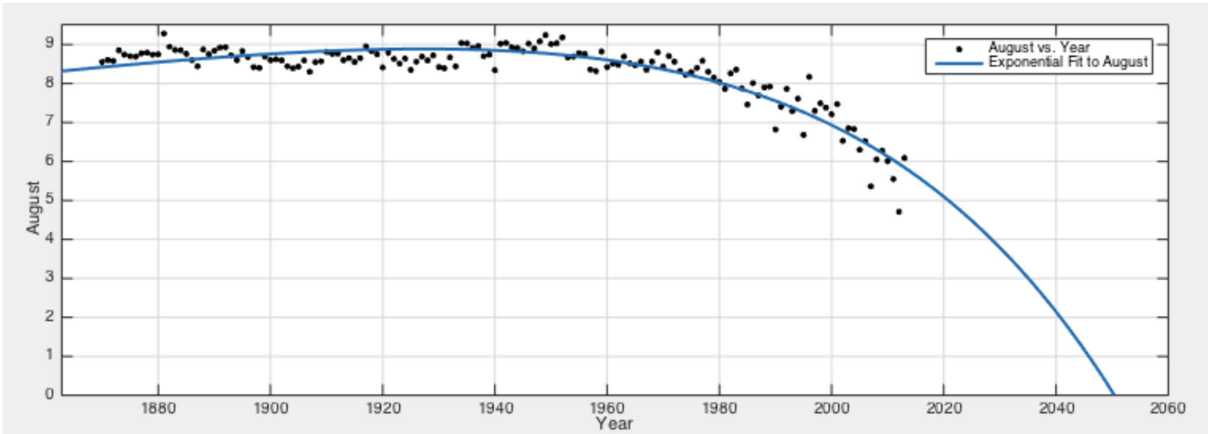
Exponential Fit of August Data:

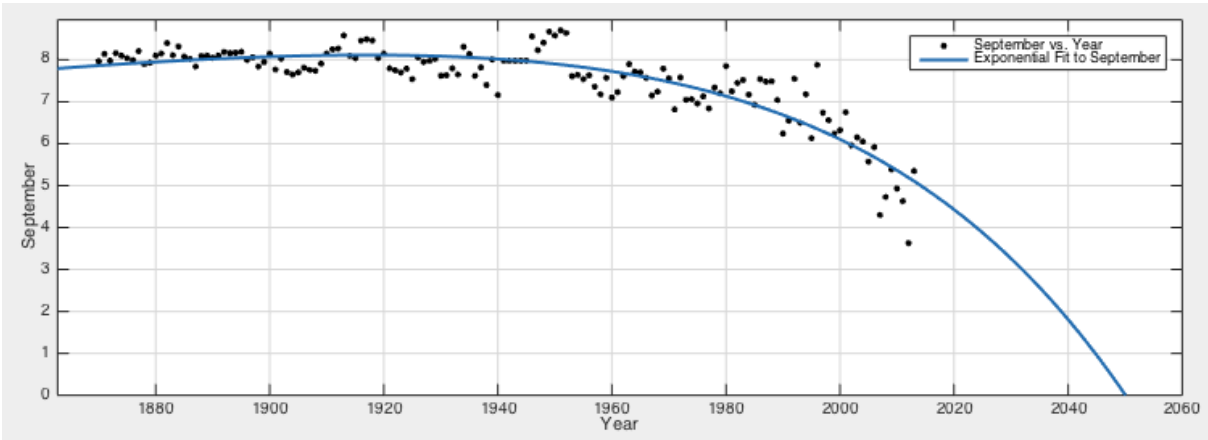


Suggested Cruiser Year: 2051

General model Exp2:
  f(x) = a*exp(b*x) + c*exp(d*x)
Coefficients (with 95% confidence bounds):
  a = 0.08908 (-0.2407, 0.4189)
  b = 0.002459 (0.0004295, 0.004489)
  c = -1.238e-16 (-2.861e-15, 2.613e-15)
  d = 0.01914 (0.008502, 0.02979)

Goodness of fit:
  SSE: 13.77
  R-square: 0.8589
  Adjusted R-square: 0.8559
  RMSE: 0.3136

Exponential Fit of September Data:

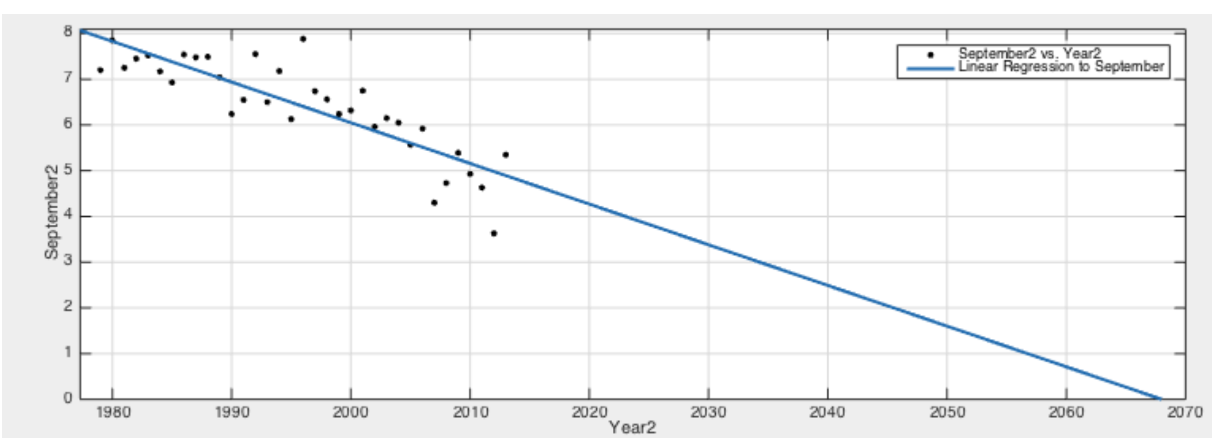


Suggested Cruiser Year: 2050

General model Exp2:
$f(x) = a*\exp(b*x) + c*\exp(d*x)$
Coefficients (with 95% confidence bounds):
a = 0.185 (-0.8124, 1.182)
b = 0.002032 (-0.0009242, 0.004989)
c = -2.511e-16 (-8.349e-15, 7.847e-15)
d = 0.01873 (0.003203, 0.03426)

Goodness of fit:
SSE: 24.22
R-square: 0.7878
Adjusted R-square: 0.7833
RMSE: 0.4159

Linear Regression of Satellite Data for September:



Suggested Cruiser Year: 2069

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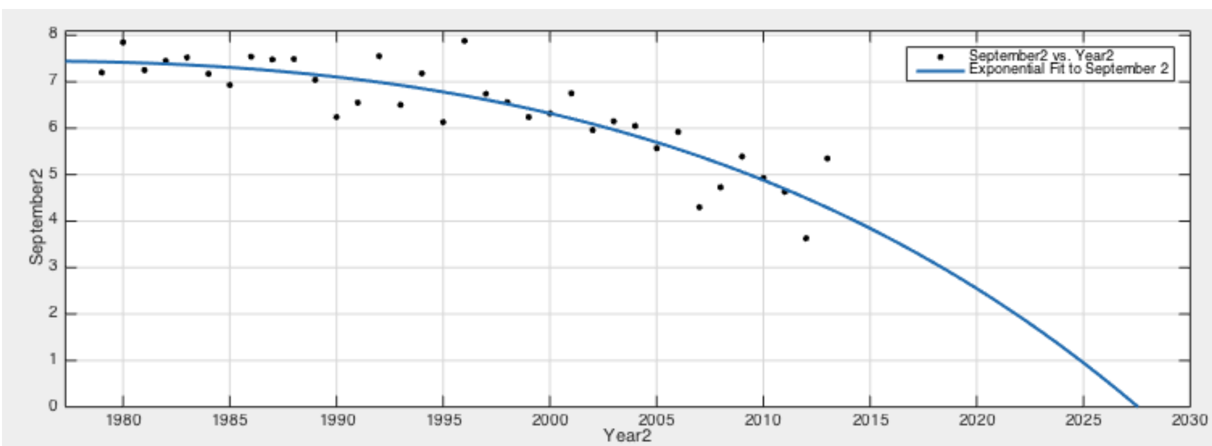
Linear model Poly1:
    f(x) = p1*x + p2
Coefficients (with 95% confidence bounds):
      p1 =    -0.08896  (-0.1083, -0.06963)
      p2 =         184  (145.4, 222.6)

Goodness of fit:
  SSE: 10.64
  R-square: 0.7265
  Adjusted R-square: 0.7182
  RMSE: 0.5678
```

<u>Exponential Fit of Satellite Data for September:</u>



Suggested Cruiser Year: 2027

General model Exp2:

$$f(x) = a*\exp(b*x) + c*\exp(d*x)$$

Coefficients (with 95% confidence bounds):

a = -4.554e-13 (-6.947e-05, 6.947e-05)
b = 0.01928 (-684.9, 684.9)
c = 4.639e-13 (-6.947e-05, 6.947e-05)
d = 0.01927 (-684.7, 684.7)

Goodness of fit:

SSE: 8.134
R-square: 0.7909
Adjusted R-square: 0.7706
RMSE: 0.5122