The following is the result of the 5x5 grid using downloaded RSS data and the updated surface temperature set from the S09 SI. The results match S09, but the economic indicators are just above the threshold.

Call:

lm(formula = surf_2v ~ myrss_trop + slp + dry + dslp + Water +

    abslat + g + e + x + p + m + y + c, data = global)

Residuals:

      Min   1Q   Median   3Q   Max

-0.911555 -0.107258 -0.001062 0.100944 0.570798

Coefficients:

	Estimate	Std. Error	t value	Pr(>|t|)	
(Intercept)	-4.4125563	3.3372552	-1.322	0.1868	
myrss_trop	0.9640263	0.0712500	13.530	< 2e-16	***
slp	0.0044394	0.0032918	1.349	0.1782	
dryTRUE	4.3267130	4.1005754	1.055	0.2920	
dslp	-0.0041792	0.0040335	-1.036	0.3007	
Water	-0.0214401	0.0196639	-1.090	0.2762	
abslat	0.0037517	0.0008518	4.404	1.34e-05	***
g	0.0409017	0.0167852	2.437	0.0152	*
e	-0.0022104	0.0004452	-4.965	9.94e-07	***
x	0.0015365	0.0035009	0.439	0.6610	
p	0.2189860	0.1157556	1.892	0.0592	.
m	0.2715069	0.1412815	1.922	0.0553	.
y	-0.1986197	0.1099987	-1.806	0.0717	.
c	0.0068292	0.0024578	2.779	0.0057	**

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

Residual standard error: 0.1728 on 426 degrees of freedom

Multiple R-squared: 0.5376,   Adjusted R-squared: 0.5235

F-statistic: 38.1 on 13 and 426 DF, p-value: < 2.2e-16

This is the result with the UAH data and the updated surface temperature set. It is little changed from MM07.

Call:

lm(formula = surf_2v ~ myuah_trop + slp + dry + dslp + Water +

    abslat + g + e + x + p + m + y + c, data = global)

Residuals:

Min	1Q	Median	3Q	Max
-0.860930	-0.112782	-0.005793	0.096112	0.611674

Coefficients:

	Estimate	Std. Error	t value	Pr(>|t|)	
(Intercept)	-5.4603120	3.2571610	-1.676	0.09439	.
myuah_trop	0.9442298	0.0645621	14.625	< 2e-16	***
slp	0.0056230	0.0032128	1.750	0.08081	.
dryTRUE	4.4833159	3.9931411	1.123	0.26217	
dslp	-0.0043212	0.0039276	-1.100	0.27186	
Water	-0.0328515	0.0192456	-1.707	0.08856	.
abslat	0.0002056	0.0009120	0.225	0.82172	
g	0.0387406	0.0163760	2.366	0.01844	*
e	-0.0024791	0.0004325	-5.732	1.88e-08	***
x	0.0019676	0.0034146	0.576	0.56477	
p	0.3079468	0.1117825	2.755	0.00612	**
m	0.2938376	0.1373945	2.139	0.03303	*
y	-0.2231583	0.1068967	-2.088	0.03743	*
c	0.0055201	0.0024045	2.296	0.02218	*

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

Residual standard error: 0.1686 on 426 degrees of freedom

Multiple R-squared: 0.5599,   Adjusted R-squared: 0.5464

F-statistic: 41.68 on 13 and 426 DF, p-value: < 2.2e-16

The following is the result of the 5x5 grid using downloaded RSS data and the original surface data. Note that the economic statistics are significant.

Call:

lm(formula = surf ~ myrss_trop + slp + dry + dslp + Water + abslat +

    g + e + x + p + m + y + c, data = global)

Residuals:

      Min   1Q   Median   3Q   Max

-0.914653 -0.111308 -0.003613 0.107243 0.550788

Coefficients:

	Estimate	Std. Error	t value	Pr(>|t|)	
(Intercept)	-4.4754978	3.4362030	-1.302	0.19346	
myrss_trop	0.9977093	0.0733626	13.600	< 2e-16	***
slp	0.0045159	0.0033894	1.332	0.18345	
dryTRUE	3.2925920	4.2221553	0.780	0.43592	
dslp	-0.0031536	0.0041531	-0.759	0.44807	
Water	-0.0207742	0.0202469	-1.026	0.30545	
abslat	0.0034674	0.0008771	3.953	9.02e-05	***
g	0.0390095	0.0172829	2.257	0.02451	*
e	-0.0022957	0.0004584	-5.008	8.06e-07	***
x	0.0037540	0.0036047	1.041	0.29827	

```
p              0.2314315  0.1191876    1.942   0.05283 .

m              0.2926747  0.1454704    2.012   0.04486 *

y             -0.2166781  0.1132601   -1.913   0.05641 .

c              0.0070253  0.0025307    2.776   0.00575 **

---

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


Residual standard error: 0.1779 on 426 degrees of freedom

Multiple R-squared: 0.5364,   Adjusted R-squared: 0.5222

F-statistic: 37.91 on 13 and 426 DF,  p-value: < 2.2e-16
```

This is the result of the 5x5 grid with the downloaded UAH data and the original surface temperature set. It closely matches the results off MM07.

```
Call:

lm(formula = surf ~ myuah_trop + slp + dry + dslp + Water + abslat +

    g + e + x + p + m + y + c, data = global)


Residuals:

    Min        1Q     Median       3Q        Max

-0.86225  -0.11171  -0.00834   0.10490   0.59310


Coefficients:

              Estimate Std. Error t value Pr(>|t|)

(Intercept) -5.5597667  3.3529723   -1.658   0.09802 .

myuah_trop   0.9771562  0.0664612   14.703   < 2e-16 ***

slp          0.0057407  0.0033073    1.736   0.08333 .

dryTRUE      3.4538226  4.1106016    0.840   0.40125

dslp        -0.0032997  0.0040431   -0.816   0.41488

Water       -0.0325824  0.0198117   -1.645   0.10079
```

```
abslat       -0.0002021  0.0009388   -0.215   0.82967
g             0.0367758  0.0168577    2.182   0.02969 *
e            -0.0025737  0.0004452   -5.781 1.44e-08 ***
x             0.0041995  0.0035151    1.195   0.23286
p             0.3235150  0.1150707    2.811   0.00516 **
m             0.3158065  0.1414361    2.233   0.02608 *
y            -0.2420899  0.1100412   -2.200   0.02834 *
c             0.0056706  0.0024752    2.291   0.02245 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1


Residual standard error: 0.1735 on 426 degrees of freedom
Multiple R-squared: 0.5589,   Adjusted R-squared: 0.5455
F-statistic: 41.53 on 13 and 426 DF,  p-value: < 2.2e-16
```