

Pelletier, Greg (ECY)

From: Robert Ambrose [bobambrosejr@gmail.com]
Sent: Wednesday, March 16, 2011 1:58 PM
To: Pelletier, Greg (ECY)
Cc: Ahmed, Anise (ECY); Sackmann, Brandon (ECY)
Subject: Re: base 13 results
Attachments: base14.xls

Here is my proposed Series 14 sensitivity spreadsheet. Note that for each of the four series (sub-series?), the base parameters for that series is kept intact and only the parameter sensitivity changes are noted.

I will be available for dialogue for the next half hour, but then I'm off to my religion-science book group. I'll check back after that and resume correspondence around 8:00 EDT.

Bob

On Wed, Mar 16, 2011 at 4:23 PM, Robert Ambrose <bobambrosejr@gmail.com> wrote:
Greg, I've been through the results, and am working on the summary and recommendations. Here is my thinking to this point.

It seems to me that with a few parameter tweaks, we will have the observed data reasonably covered (though not optimized). The Series 13 sensitivity runs tend to show that specific parameter changes help at some stations and hurt at others. As a result, we won't be able to capture all stations optimally with a single parameter set. Reality is just too complex. I propose to keep the basic division that we started in Series 13, that is 4 different sets, and make one or maybe two more rounds to optimize each. Then we can choose the best and go with it, or perhaps choose to go forward with 3 or 4 alternate parameter sets. Projections could be shown as an envelop of the separate calibrations. Could you give that some thought, both theoretical and practical, and let's discuss some time?

Here is my table with suggested base runs for Series 14, with changes highlighted in yellow. I'll work on the sensitivity spreadsheet, assuming that the following parameters are (for now) locked in: anc, gmax, Isat, topt, cchl, ktg1. I'd like to try a slightly higher ktg2 on a couple of runs, and alternative values for k_n, k_R, and k_D, with combinations.

	Simulation Series			
Parameters	14a	14b	14c	14d
Generalanc	0.10	0.10	0.12	0.12
GAM1 gmax	2.2	2.4	2.2	2.4
Isat	30	40	30	40
Topt	10	11	10	11
ktg1	0.024	0.024	0.024	0.024
ktg2	0.024	0.024	0.024	0.024
cchl	60	70	60	60
k_n	24	24	24	24
k_R	0.07	0.07	0.07	0.07
k_D	0.03	0.03	0.03	0.03
w_s	0.5	0.5	0.5	0.5
GAM2 gmax	2.5	2.4	2.6	2.6
Isat	70	70	70	70

Topt	17	17	17	17
ktg1	0.020	0.020	0.015	0.015
ktg2	0.020	0.020	0.015	0.015
cchl	60	60	50	50
k_n	24	24	24	24
k_R	0.07	0.07	0.07	0.07
k_D	0.03	0.03	0.03	0.03
w_s	0.2	0.2	0.2	0.2

Bob

On Tue, Mar 15, 2011 at 1:22 PM, Pelletier, Greg (ECY) <gpel461@ecy.wa.gov> wrote:

The output plots for the xpj runs for base 13 are now online:

<https://fortress.wa.gov/ecy/spsdos/index.html>

From: Pelletier, Greg (ECY)
Sent: Monday, March 14, 2011 11:16 AM
To: 'Robert Ambrose'
Cc: Ahmed, Anise (ECY); Sackmann, Brandon (ECY)
Subject: base 13 results

Bob,

The base 13 time-series and depth-time charts for runs on xpb, xpc, and xpi are currently online at our model output browser:

<https://fortress.wa.gov/ecy/spsdos/index.html>

Runs in xpj will be added tomorrow.

Is it possible for you to review the base 13 results and send us your comments and spreadsheet for base 14 by the end of the day on Wednesday? That would allow us to start the base 24 runs this week.

Greg

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