

F-1

MAYNORD

**COMMENTS ON
REVISED REPORT**

Comments on revised Comparison report. 30 Aug 02 Steve Maynard

1. I thought we were going to change this to micromodels rather than small scale. — No
2. Under purpose, we need to define similarity as agreement of model and prototype and similarity criteria as the rules, ratios, parameters used to achieve similarity. After that we need to carefully use these terms.
3. part 1.1, 2nd pp- "If a prototype parameter varies over a considerable range.." This sentence should be omitted or we need to explain what we are saying. Similarity criteria should not be less stringent because a parameter varies over a considerable range. If someone wants to, that should be put in their individual opinion section.
4. Page 1-3, sec 1.1, next-to-last pp, last sentence- omit for same reasons or change to "This disparity makes it difficult to compare model and prototype."
5. Page 1-6- 1st full pp- how does hydraulic depth provide an indication of channel shape?
6. Page 1-7, last pp- omit 2nd sentence "Because ..." I don't know what the specific scale ratio values are.
7. Page 2-6- pp before 2.1.3-, last sentence- How can we say this? All we would have to do is use vertical or horizontal scale ratios. — No! but deleted
8. Page 2-13-CF plots

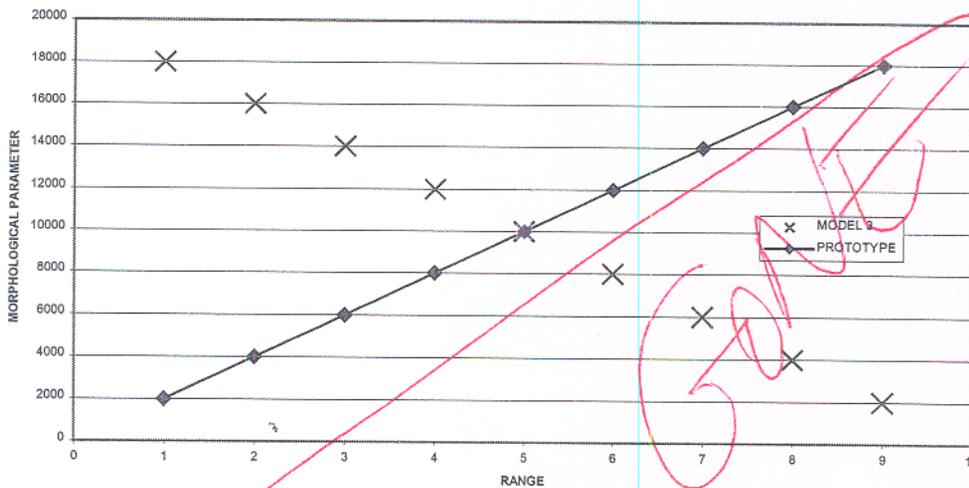


Figure 22. Hypothetical Model vs Prototype

The problem I have with the CF approach is shown in the above graph. I think we would all agree that the above model and prototype do not agree. However, the CF plot would show perfect agreement of model and prototype. The CF 50% values and plots need to be omitted.

9. Page 2-25- 3rd pp, first sentence- Provide examples of other loose bed models that do not use bankful stage or omit this sentence. *micromodels*
10. Page 2-25 to 2-26- last pp on 2-25- remove rest of pp beginning "Consequently ...". Remove speculation. First sentence and Fig 2-7 says what needs to be said.
11. Page 2-30- item 4- add "area" to cross section

delete
Not speculation
fact - leave

12. Page 3-36- range plots for predictive case still missing from report. Tables like 3-3 also missing for range plots for predictive case.

add - missed before

13. Page 3-48- 2nd pp- replace composite with average. Remove items relative to CF.

14. Page 3-50, Table 3-10- add to end of footnote "and are not indicative of model accuracy"

dealt with

15. Page 3-51- 1st pp, last sentence- remove unless you can show data where all inputs are constant except for a variable hydrograph and bed changes when surveyed at a consistent time.

16. Page 3-51- I received these 5 surveys about a year or so ago and heard nothing about them not being comparable. If you can state that the first survey was after hydrograph #x, and the other surveys were after hydrograph #y, #z, etc, then you will have made your case. "early" is not adequate. An observation was stated somewhere that models reach equilibrium at about 5 hydrographs. Compare hydrograph numbers to this to make the case.

dealt with

17. Page 3-56- The approach taken at JB where different surveys were compared at the same cross-section is valid. The approach for KA is not. Equal variance from survey to survey shows nothing about repeatability. One has to only look at the cross section plots to know that the statement in the 2nd pp "Except for the 022301a" is wrong. This is a conclusion that needs to be put elsewhere. Remove 3rd pp. Just because survey was different does not allow us to omit.

18. P 3-61- JB variance look reasonable when looking at cross-section plots. It is interesting that variance is about 1 grain size = $(1 \text{ mm}/1000)(1200)(3.28 \text{ ft}/\text{m}) = 3.9 \text{ ft}$ and that the typical range from max to min of the 18 runs is about 2 grain diameters. State whether a constant flow was used in the actual JB model or this was just done for the evaluation? In the last pp of 3.2.2, the first line is a conclusion. I would agree that this agreement is good, but to be consistent, we need to put conclusions in main report. In the last sentence, I think I agree with what you are saying but could you expound slightly?

19. P 3-62- I think I understand how variance was calculated in JB model. I am sure I don't understand what was done in Dogtooth. Please describe what was done.

Rob

20. Page 3-62- remove last sentence of 3.2.4. It is a conclusion that I don't agree with in KA.

done

21. Page 4-1- Add sentence that conclusions based on results of this comparison report will be reported in the main evaluation report.

22. Page 4-2, Table 4-1 - Of the 5 comparisons shown in Tables 4-1 to 4-5, all will be understood except how we calculated the thalweg. I am assuming these numbers were divided by something like width? Add footnote.

Text in sect 2.1.5.1

Thalweg shown fig 2-1