Hydrol. Earth Syst. Sci. Discuss., 12, C2183–C2195, 2015
www.hydrol-earth-syst-sci-discuss.net/12/C2183/2015/

Hydrology and Earth System Sciences
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Discussions

Interactive comment on "Improving multi-objective reservoir operation optimization with sensitivity-informed problem decomposition" *by* J. G. Chu et al.

J. G. Chu et al.

czhang@dlut.edu.cn

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Dear Editor,

I upload my revised manuscript (hess-2015-92) now.

Thank you very much for you consideration.

Best wishes,

Chi Zhang

czhang@dlut.edu.cn

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/12/C2183/2015/hessd-12-C2183-2015-supplement.pdf

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 3719, 2015.

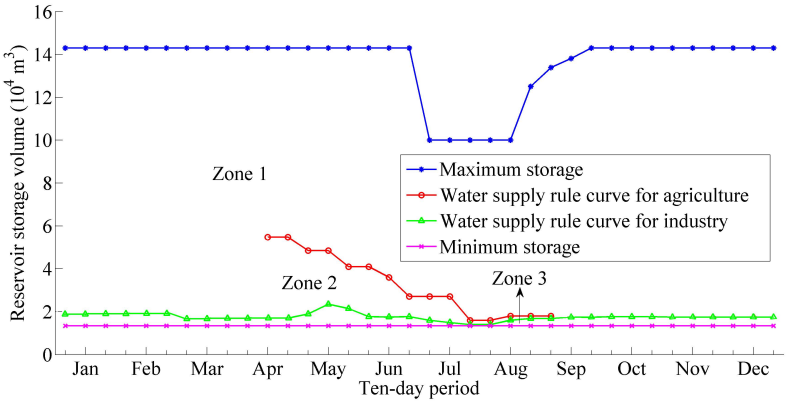

Fig. 1. Reservoir operational rule curves

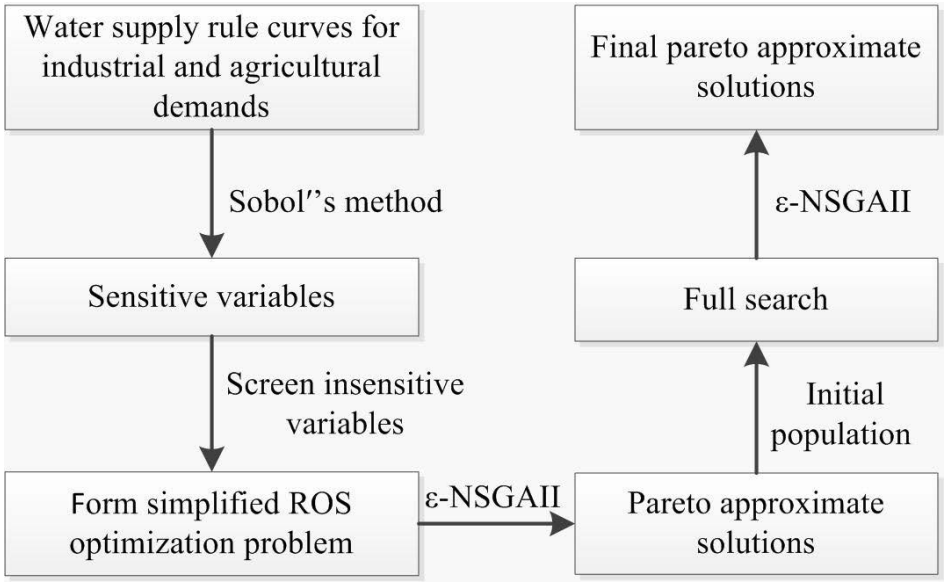

Fig. 2. Flowchart of the sensitivity-informed methodology

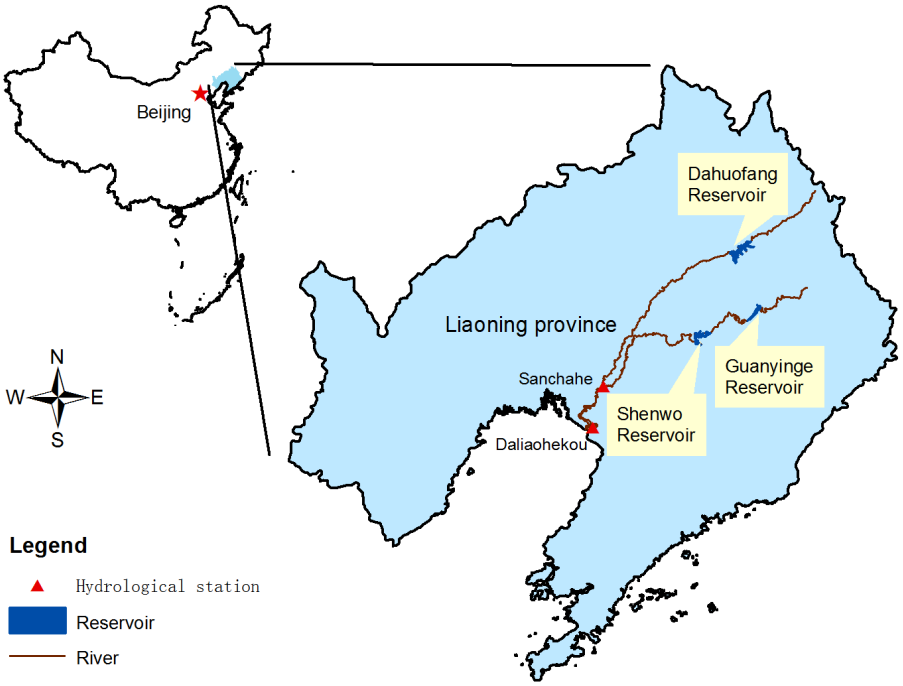

Fig. 3. Layout of the inter-basin multi-reservoir system

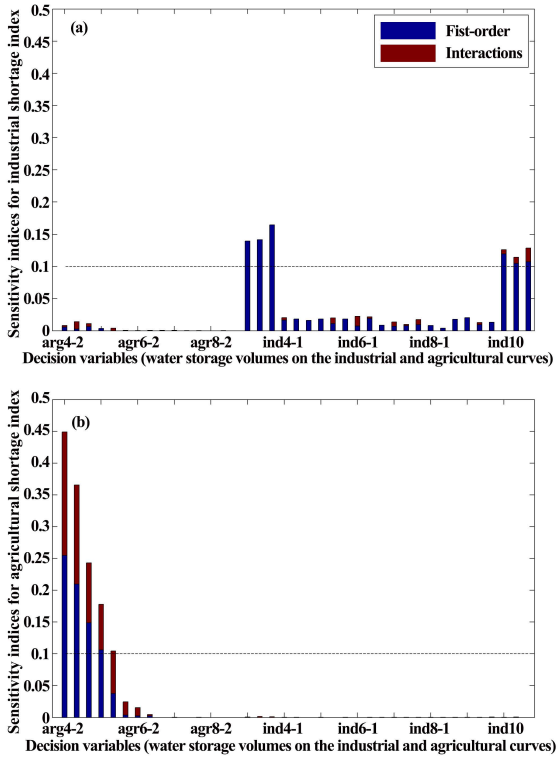

Fig. 4. First-order and total-order indices for the Dahuofang ROS problem

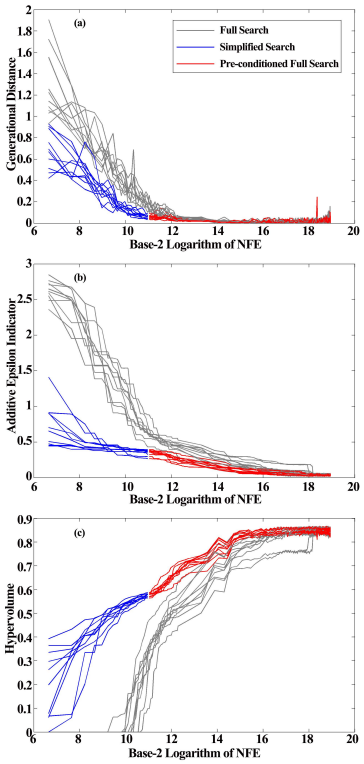

Fig. 5. Performance metrics for the Dahuofang ROS problem

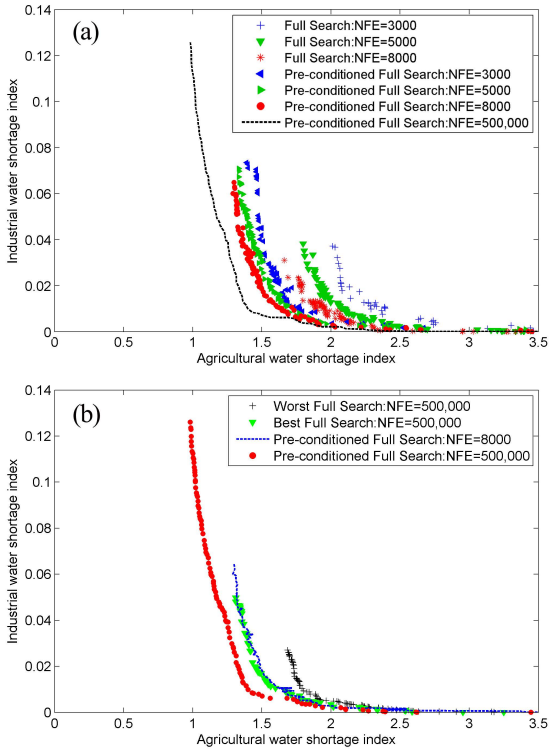

Fig. 6. Pareto fronts derived from pre-conditioned and standard full searches for the Dahuofang ROS problem

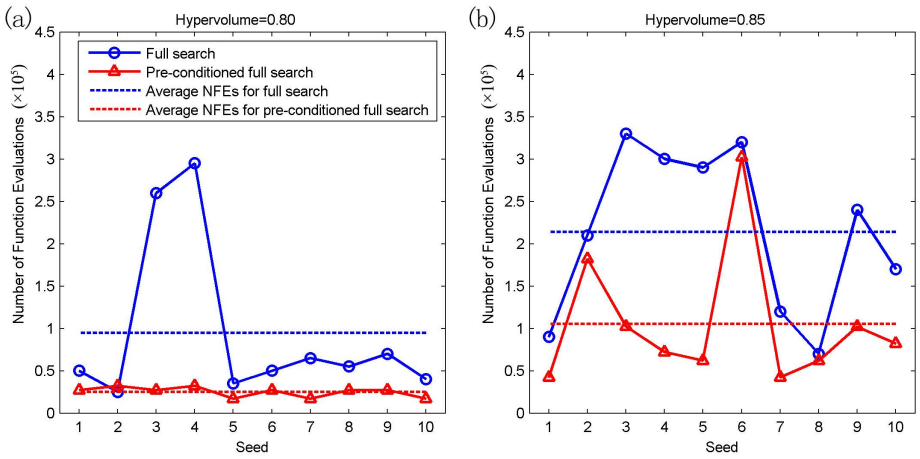

Fig. 7. Computational savings for two hypervolume thresholds

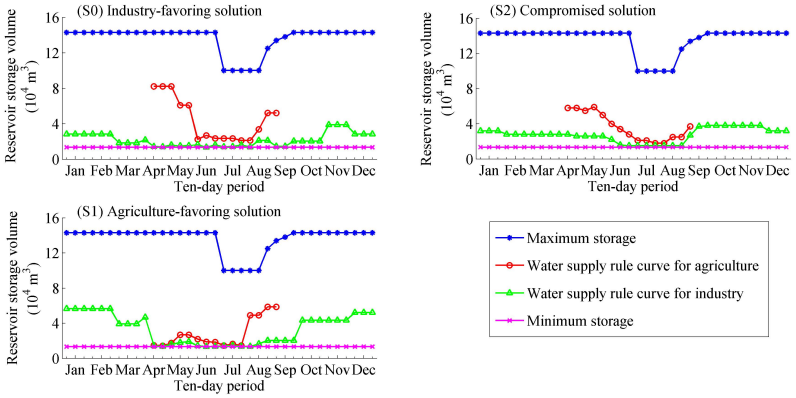

Fig. 8. Optimal rule curves for different solutions

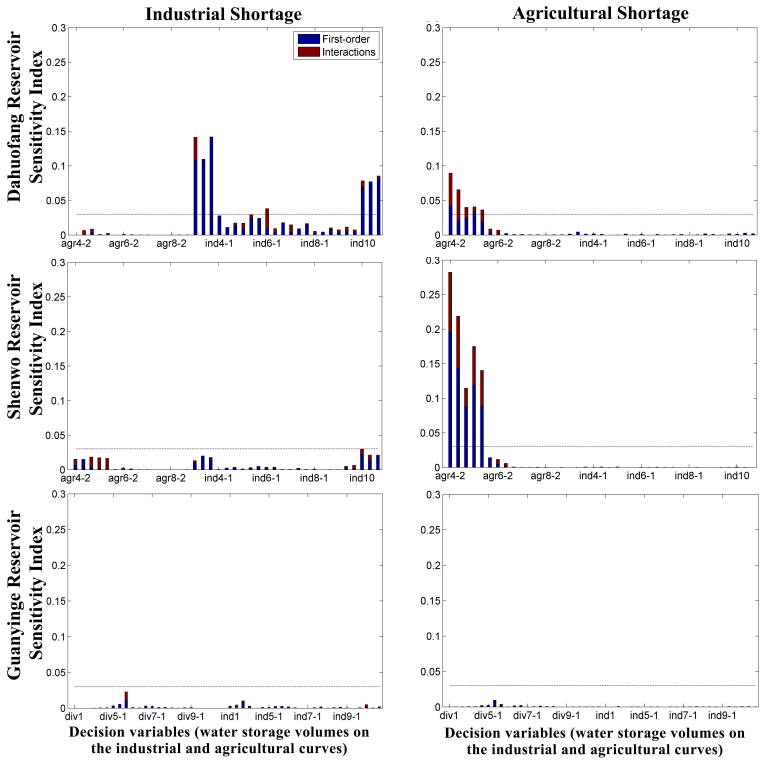

Fig. 9. First-order and total-order indices for the inter-basin multi-reservoir operation system problem

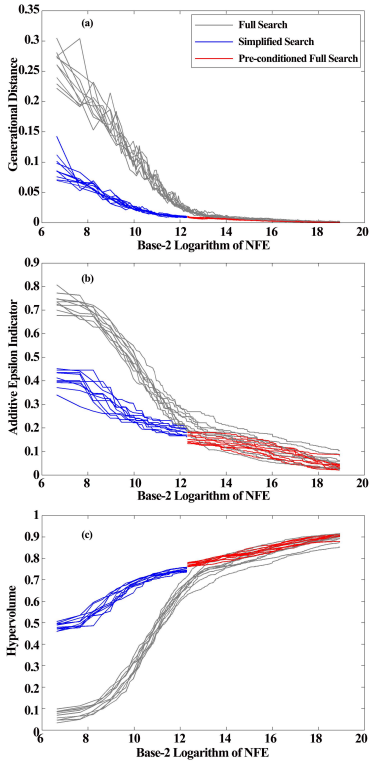

Fig. 10. Performance metrics for the inter-basin multi-reservoir operation system problem

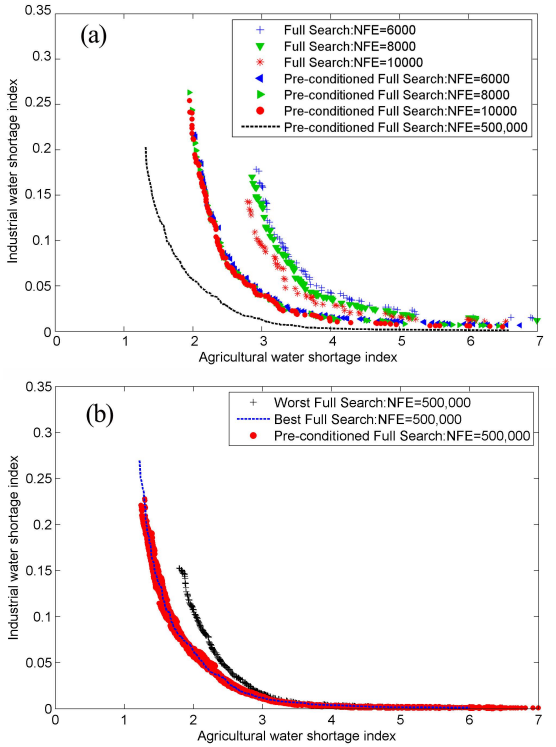

Fig. 11. Pareto fronts derived from pre-conditioned and standard full searches for the inter-basin multi-reservoir water supply operation system problem