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# ***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.**

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Received and published: 23 June 2015

Dear Editor,

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

Thank you very much for your consideration.

Best wishes,

Chi Zhang

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C2183

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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>

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

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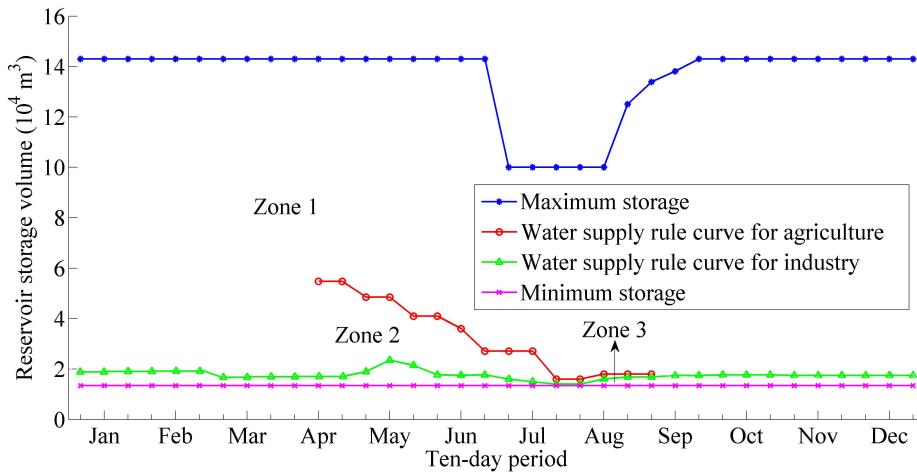
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**Fig. 1.** Reservoir operational rule curves

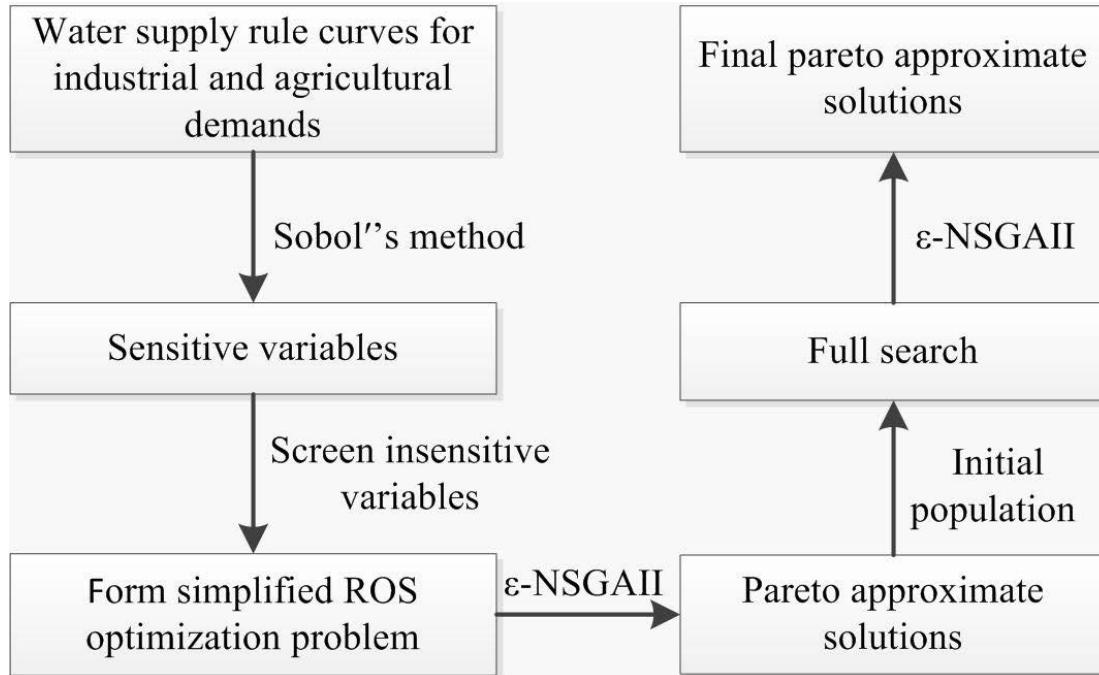
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**Fig. 2.** Flowchart of the sensitivity-informed methodology

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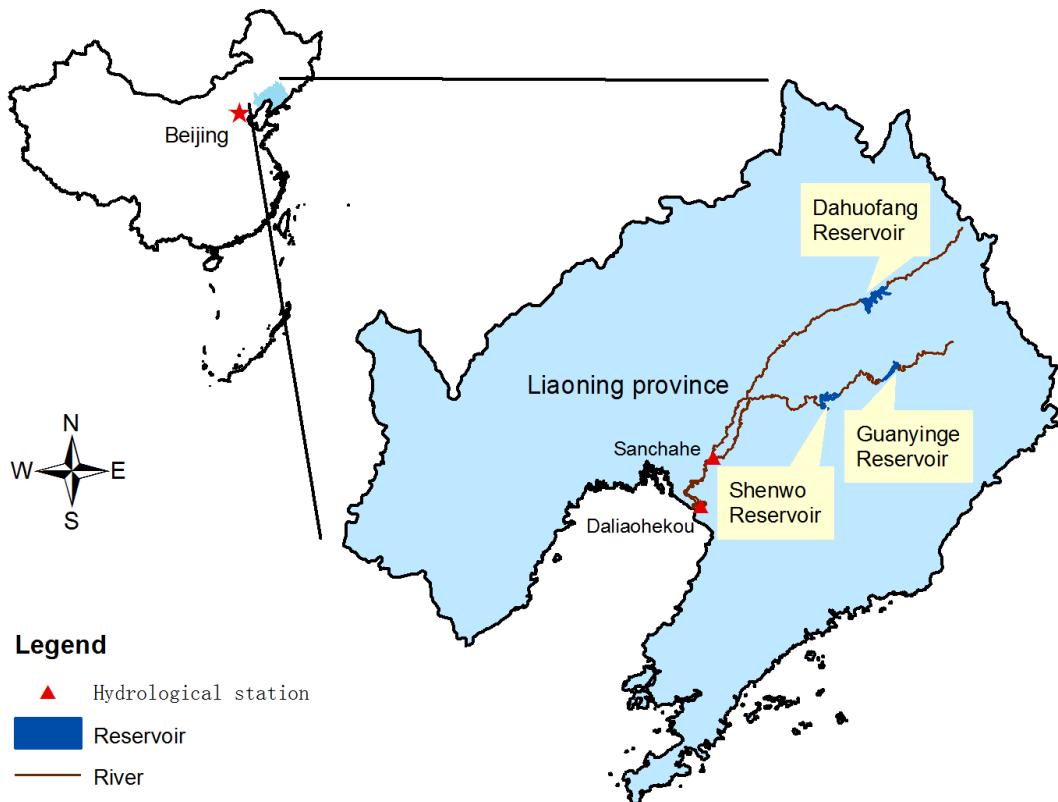
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**Fig. 3.** Layout of the inter-basin multi-reservoir system

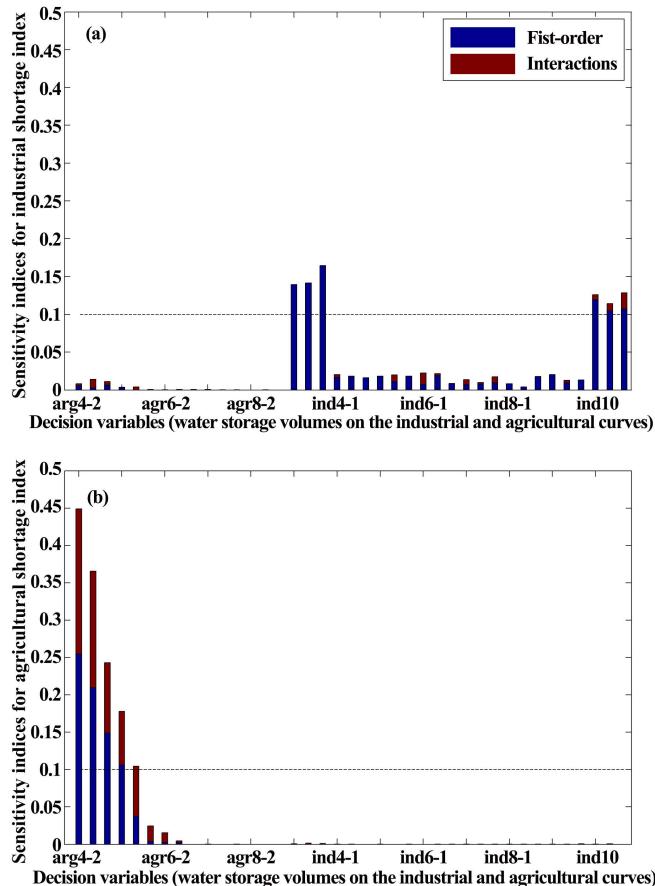
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**Fig. 4.** First-order and total-order indices for the Dahuofang ROS problem

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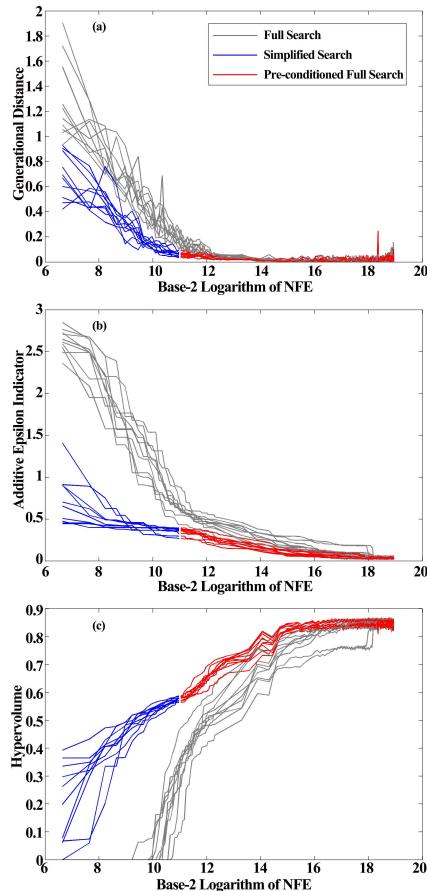
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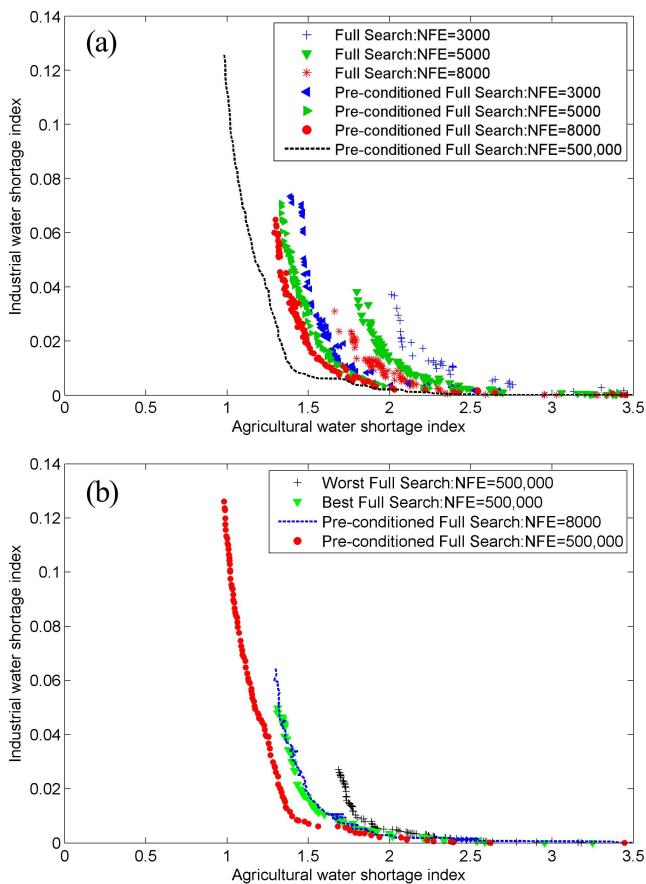
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**Fig. 5.** Performance metrics for the Dahuofang ROS problem



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

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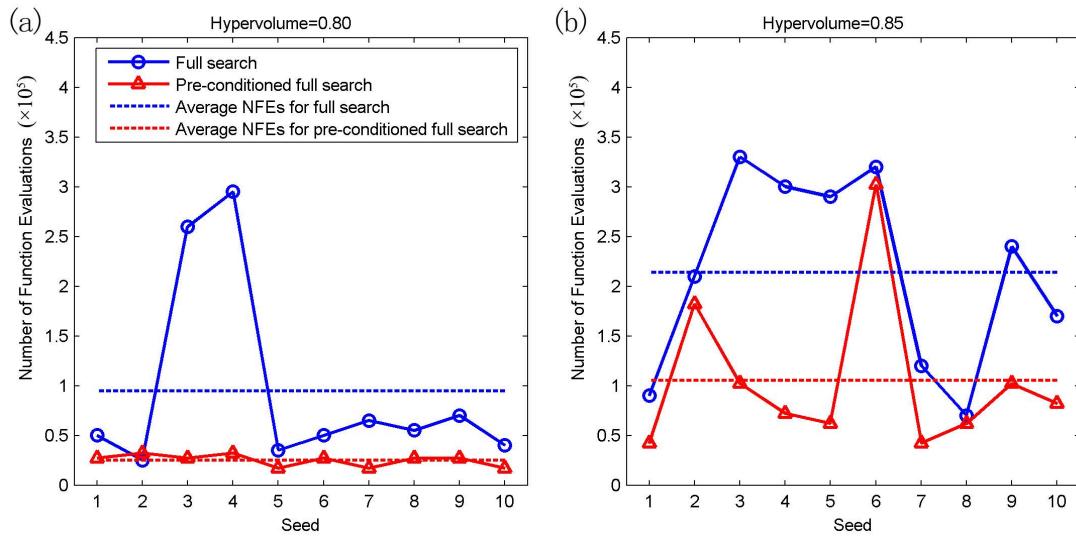
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**Fig. 7.** Computational savings for two hypervolume thresholds

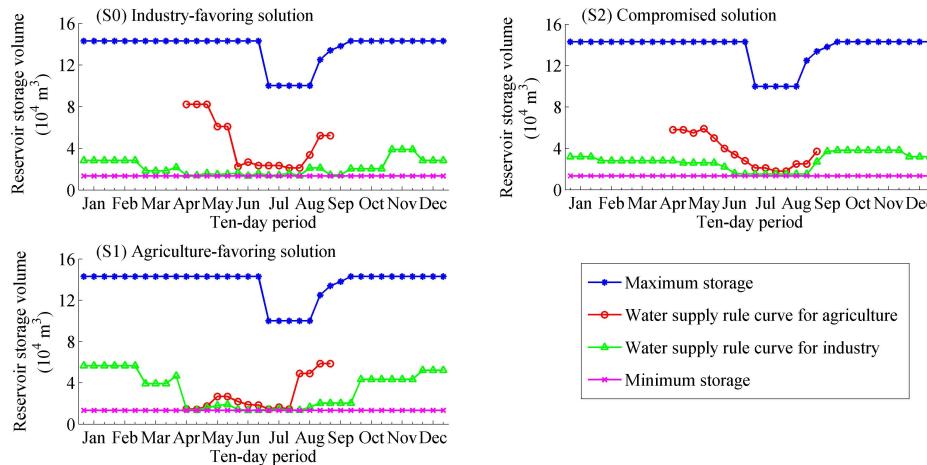
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**Fig. 8.** Optimal rule curves for different solutions

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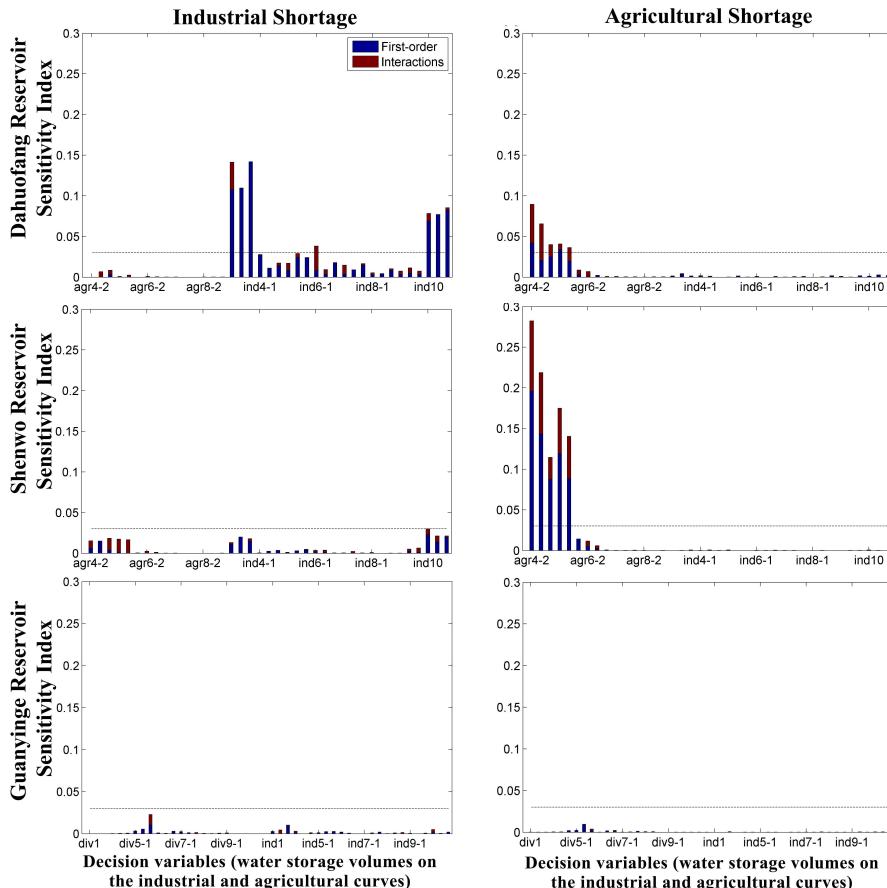
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**Fig. 9.** First-order and total-order indices for the inter-basin multi-reservoir operation system problem

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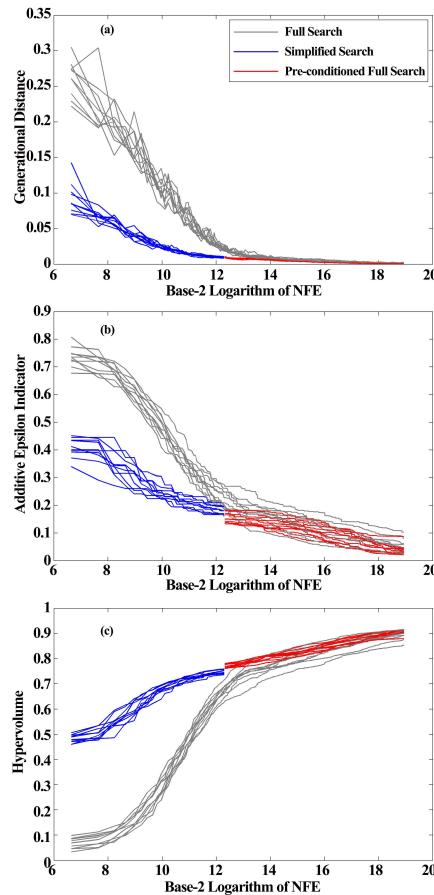
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**Fig. 10.** Performance metrics for the inter-basin multi-reservoir operation system problem

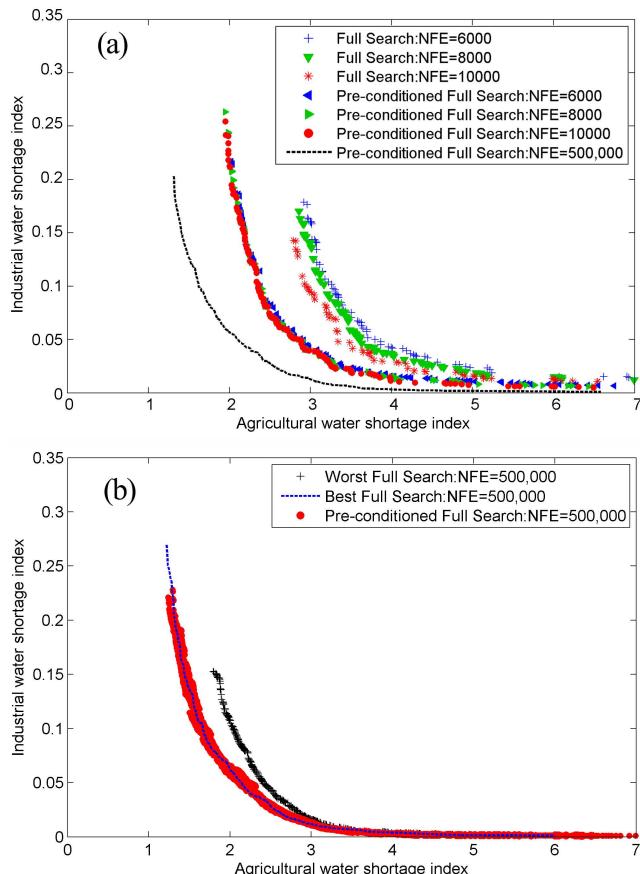
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**Fig. 11.** Pareto fronts derived from pre-conditioned and standard full searches for the inter-basin multi-reservoir water supply operation system problem

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