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The ISMIP-HOM benchmark experiments performed using the Finite-Element code Elmer.

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Complementary material containing the figures of all the outputs for the 6 ISMIP-HOM experiments performed with Elmer.

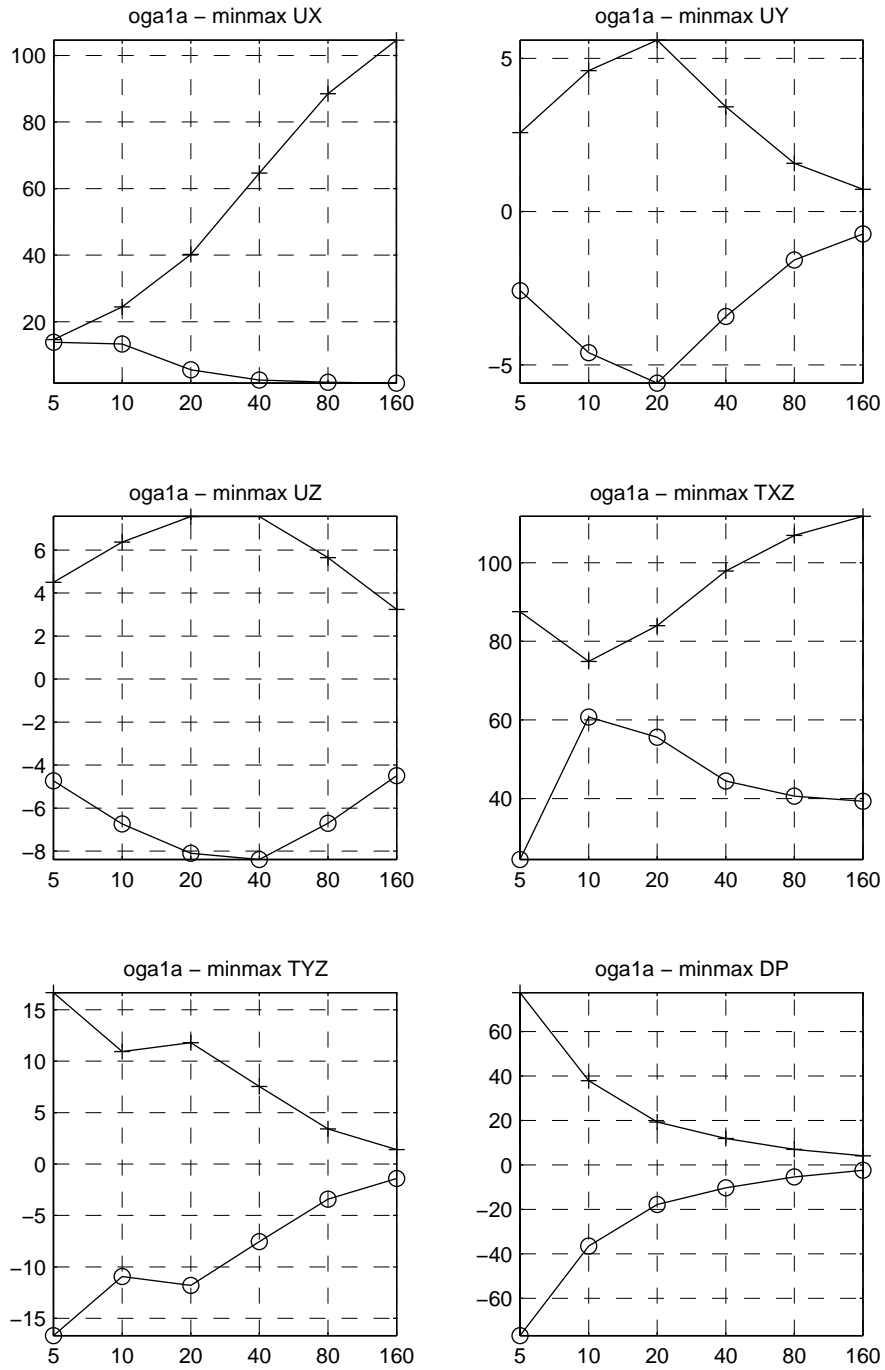
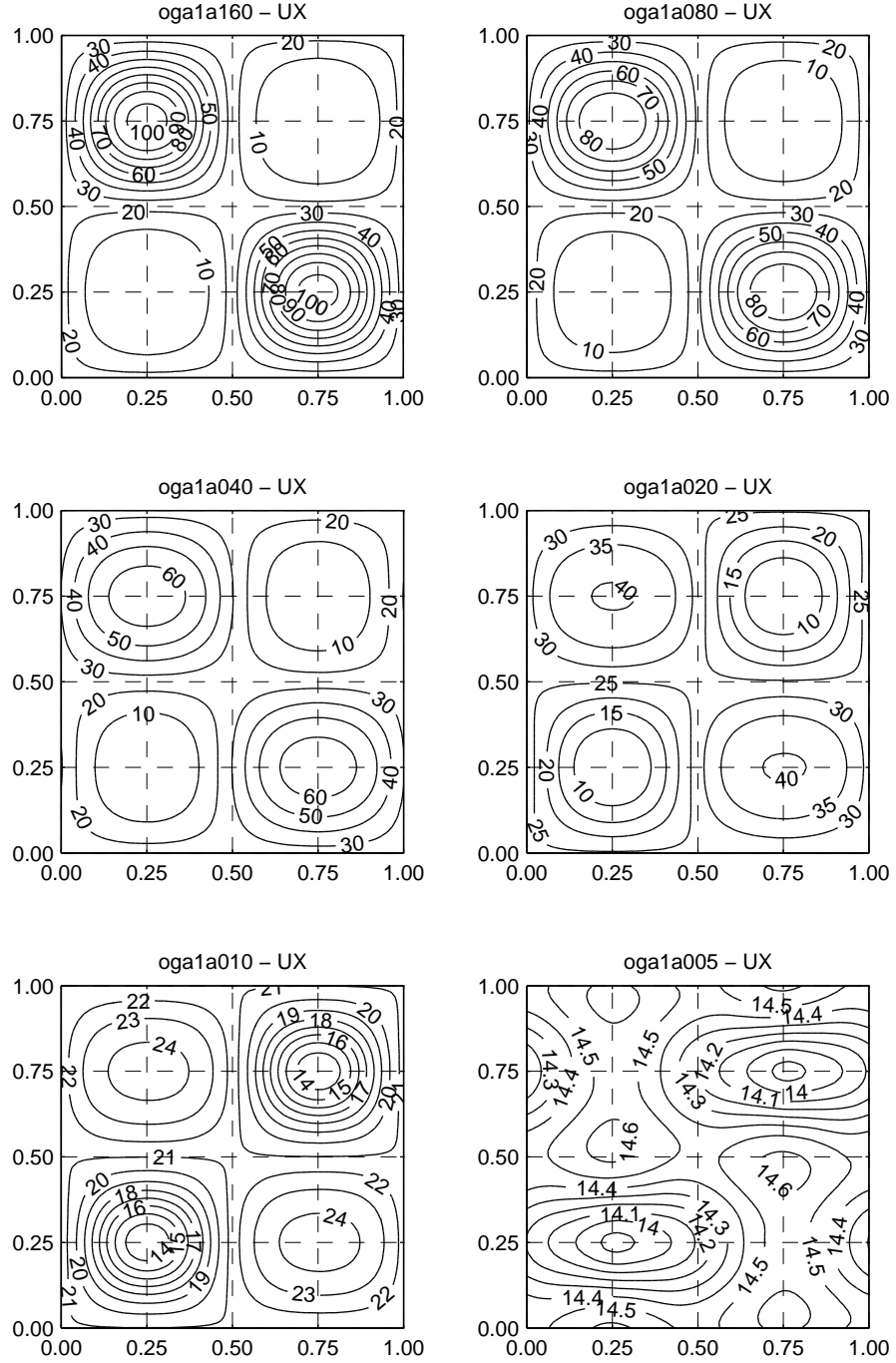


Fig. 1. Experiment A - Minimal and maximal values of the output variables

**Fig. 2.** Experiment A - $u_x(z_s)$ [ma^{-1}]

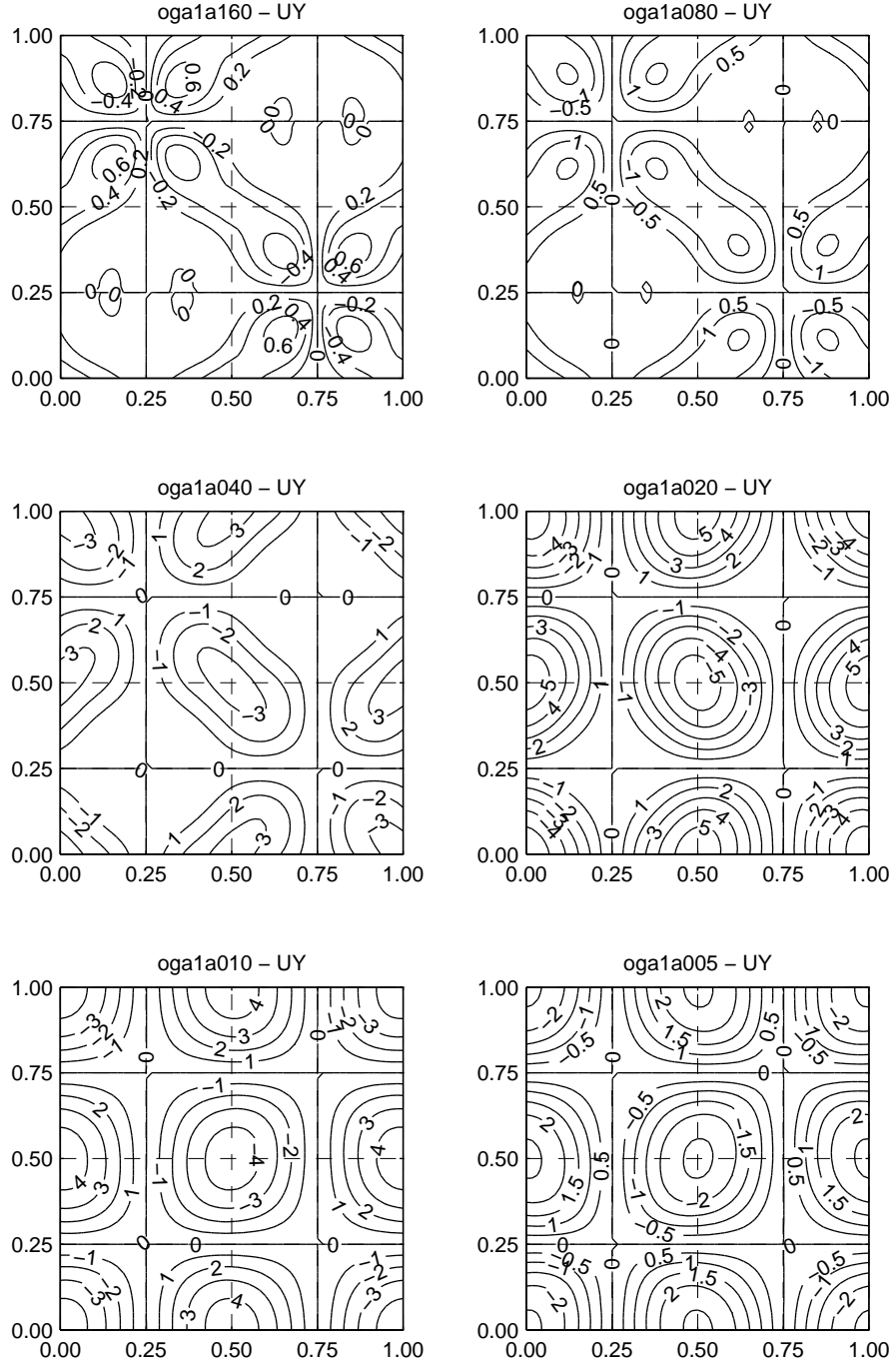
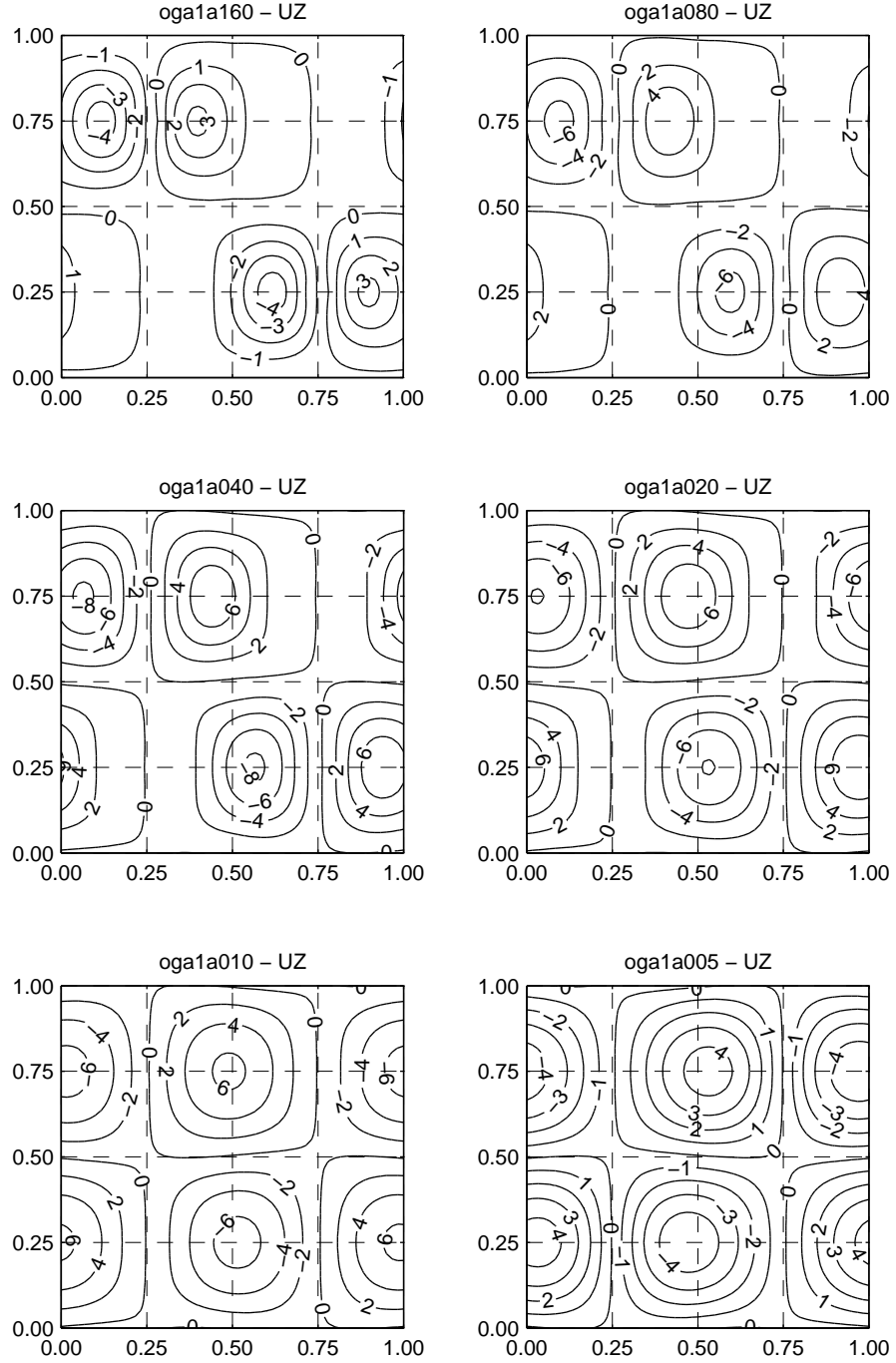


Fig. 3. Experiment A - $u_y(z_s)$ [ma^{-1}]

**Fig. 4.** Experiment A $-u_z(z_s)$ [ma⁻¹]

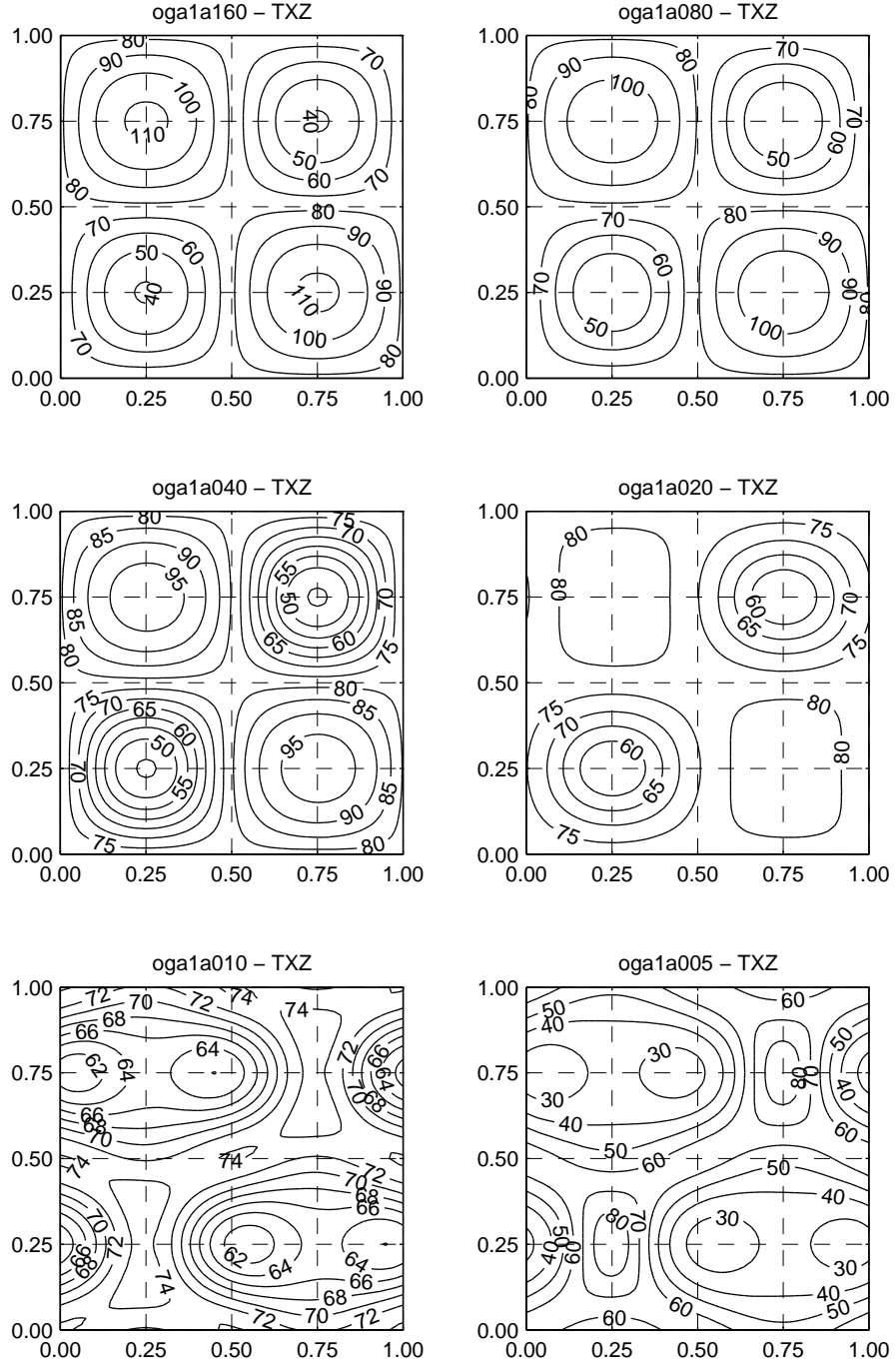
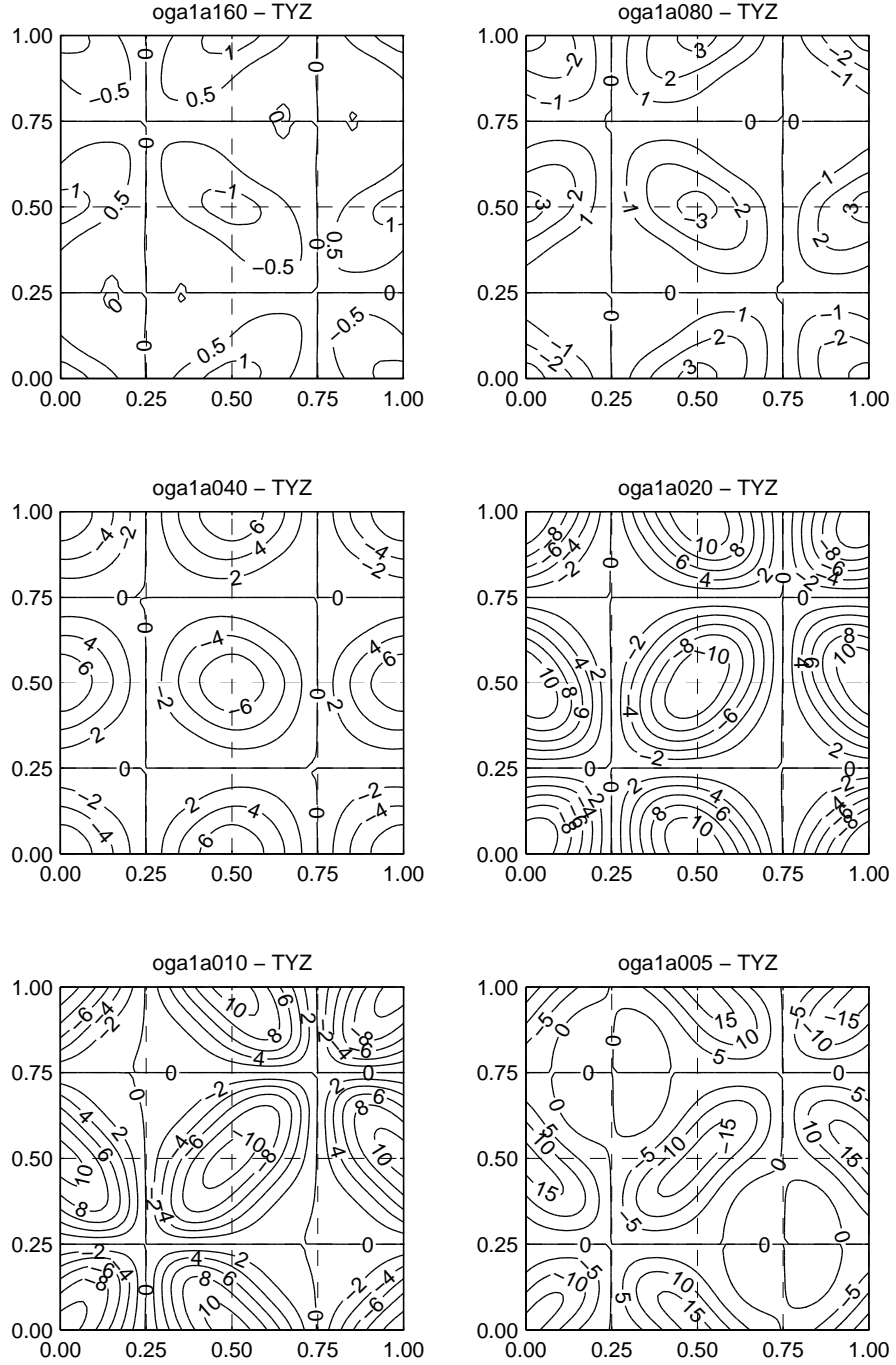


Fig. 5. Experiment A - $\sigma_{xz}(z_b)$ [kPa]

**Fig. 6.** Experiment A - $\sigma_{yz}(z_b)$ [kPa]

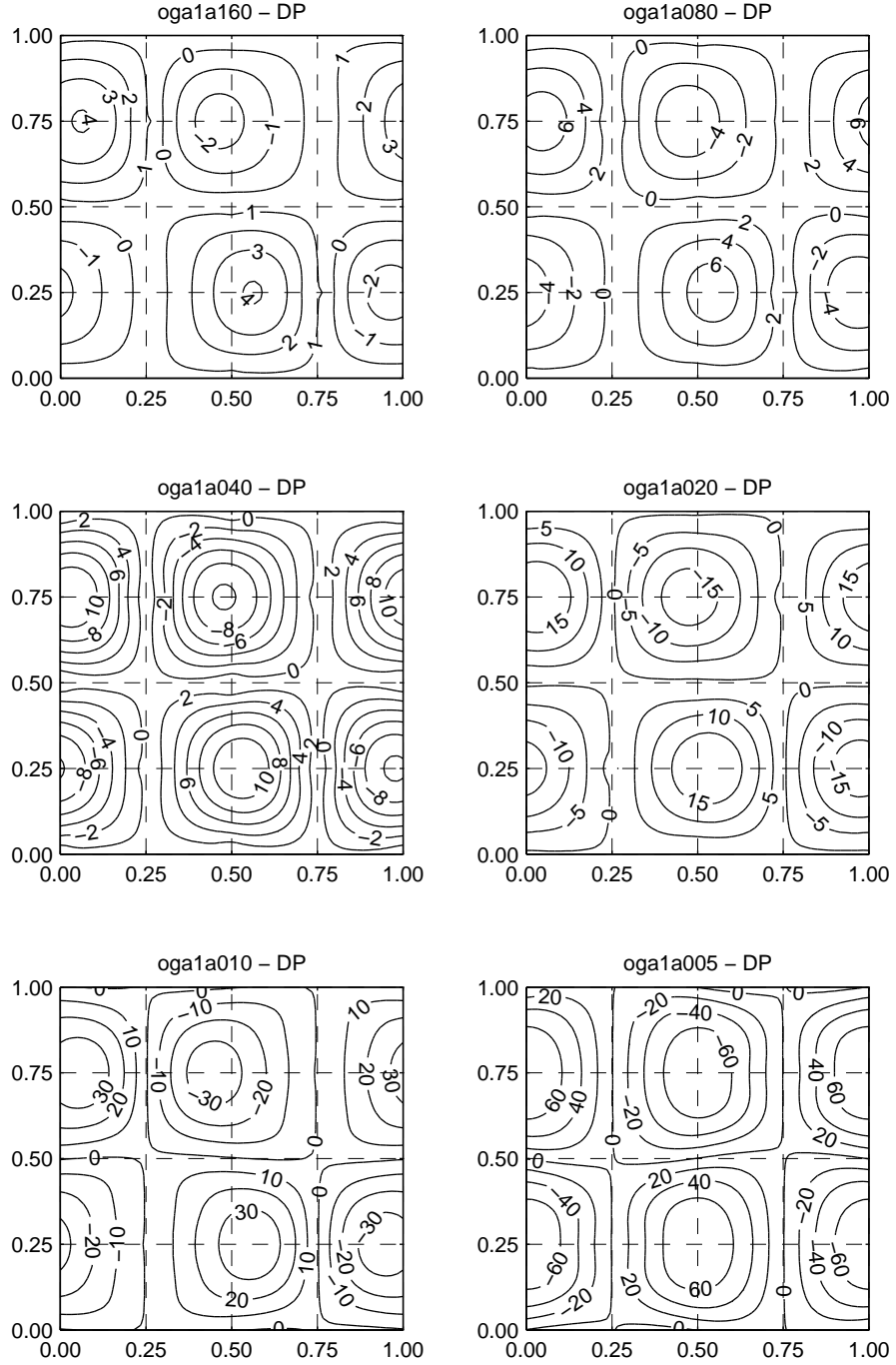


Fig. 7. Experiment A - $\Delta p(z_b)$ [kPa]

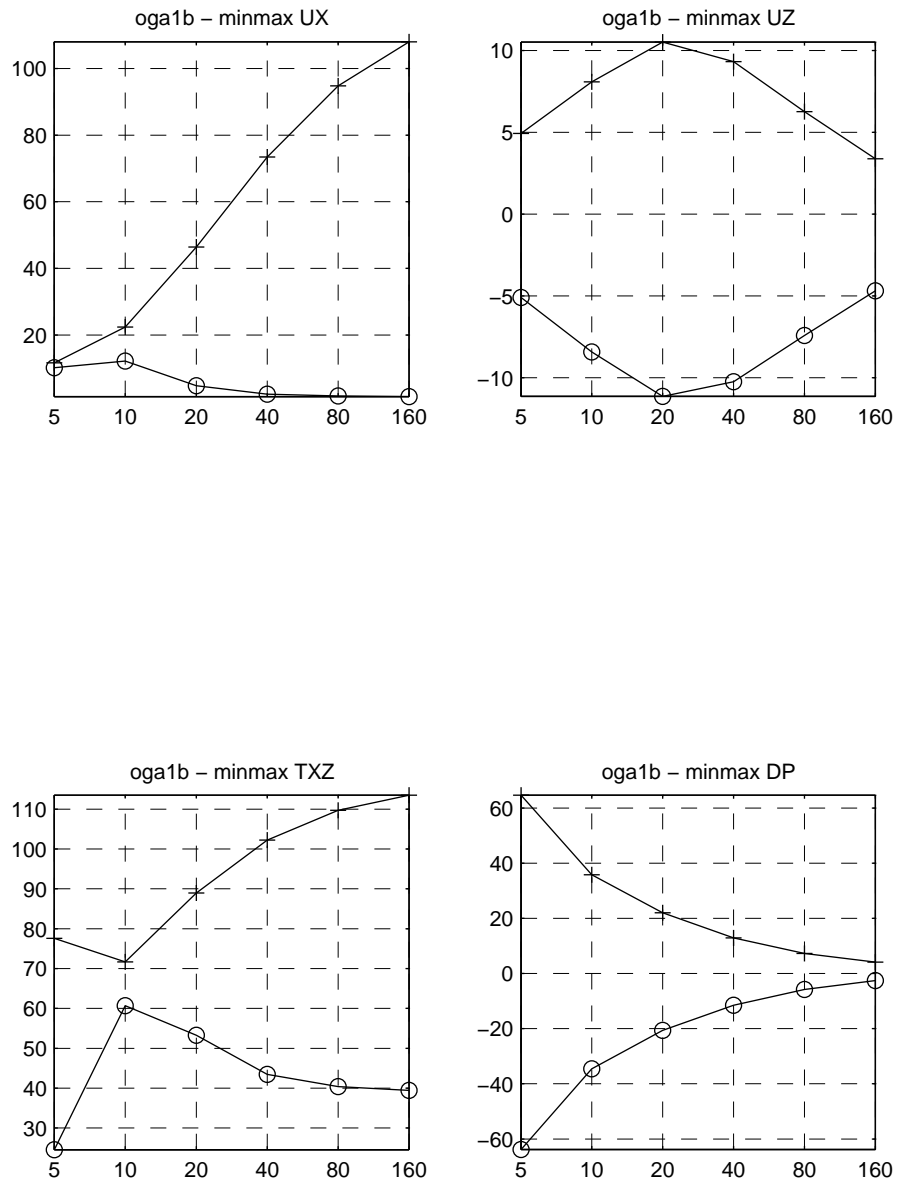


Fig. 8. Experiment B - Minimal and maximal values of the output variables

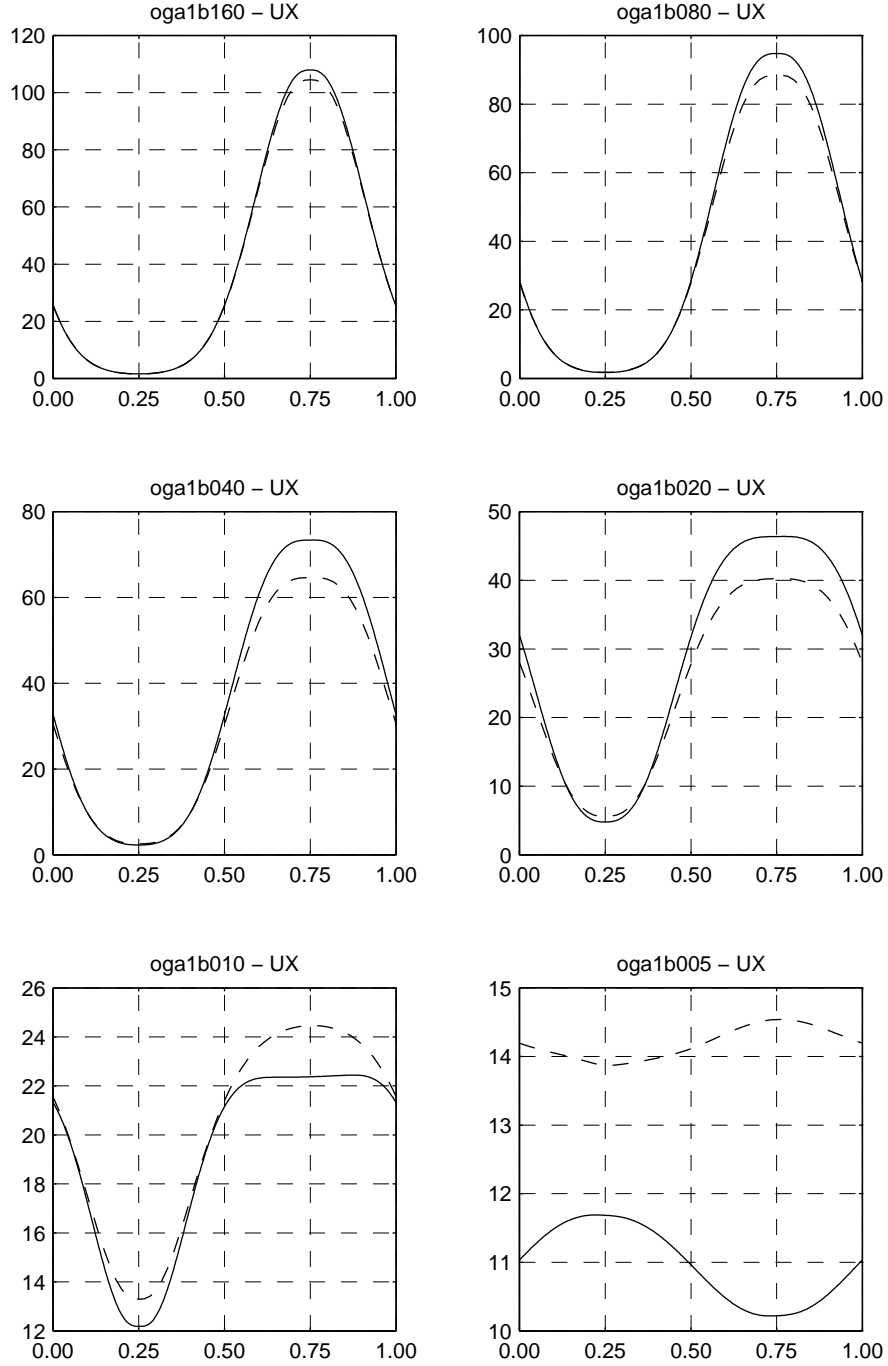


Fig. 9. Experiment B - $u_x(x, z_s)$ (solid line) and Experiment A - $u_x(x, L/4, z_s)$ (dashed line) [m s^{-1}]

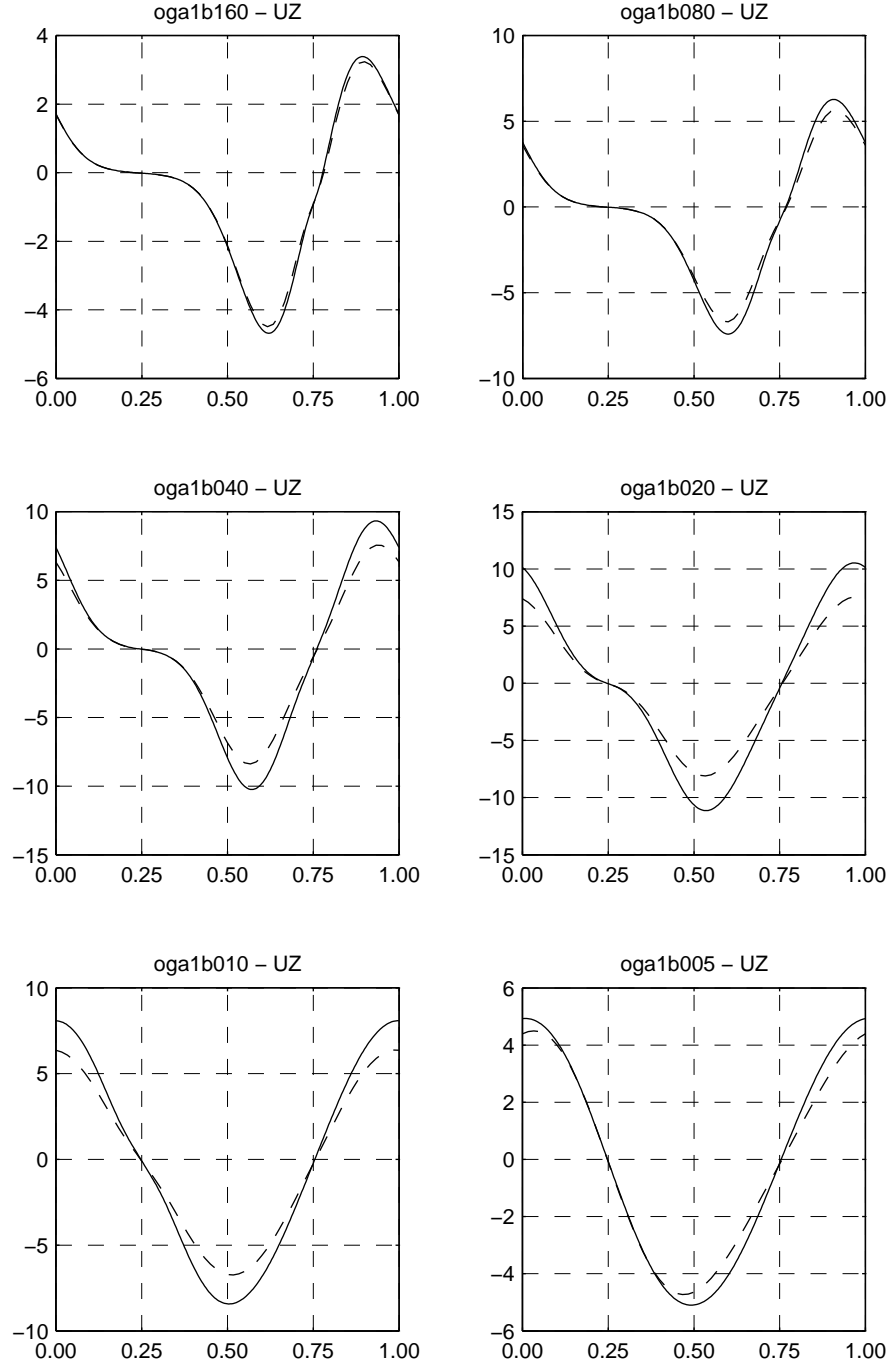


Fig. 10. Experiment B - $u_z(x, z_s)$ (solid line) and Experiment A - $u_z(x, L/4, z_s)$ (dashed line) [ma^{-1}]

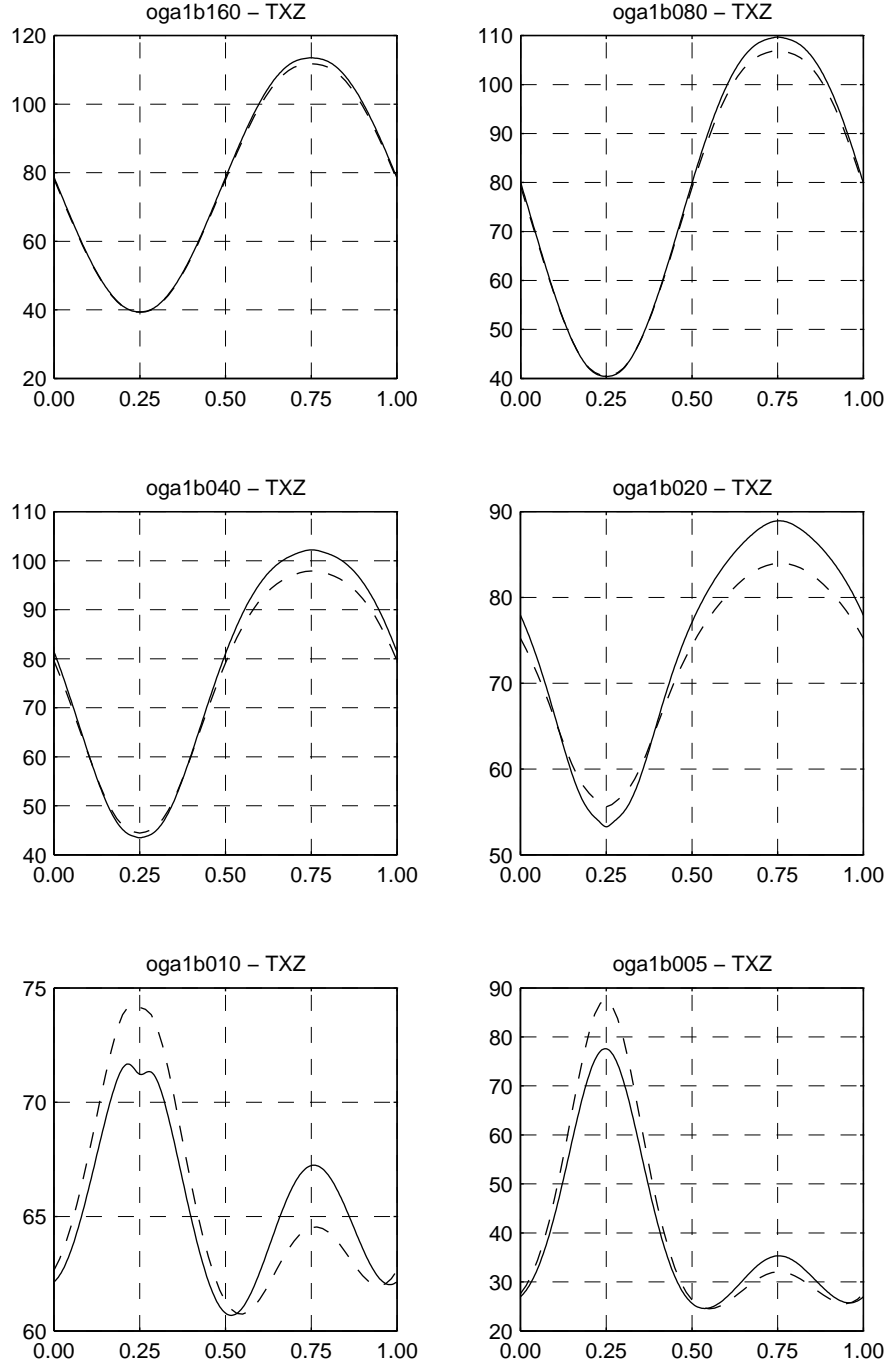


Fig. 11. Experiment B - $\sigma_{xz}(x, z_s)$ (solid line) and Experiment A - $\sigma_{xz}(x, L/4, z_s)$ (dashed line) [kPa]

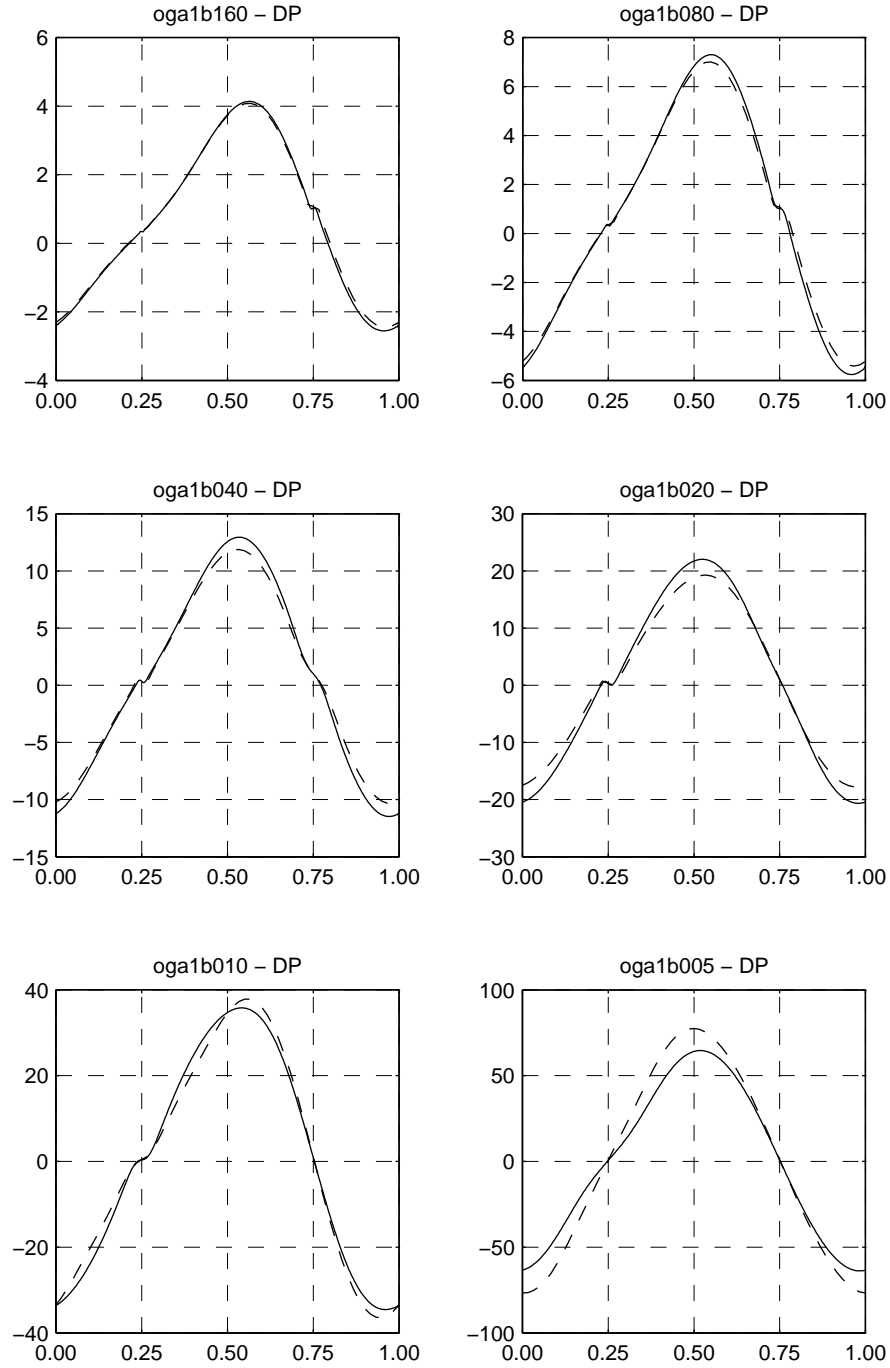


Fig. 12. Experiment B - $\Delta p(x, z_s)$ (solid line) and Experiment A - $\Delta p(x, L/4, z_s)$ (dashed line) [kPa]

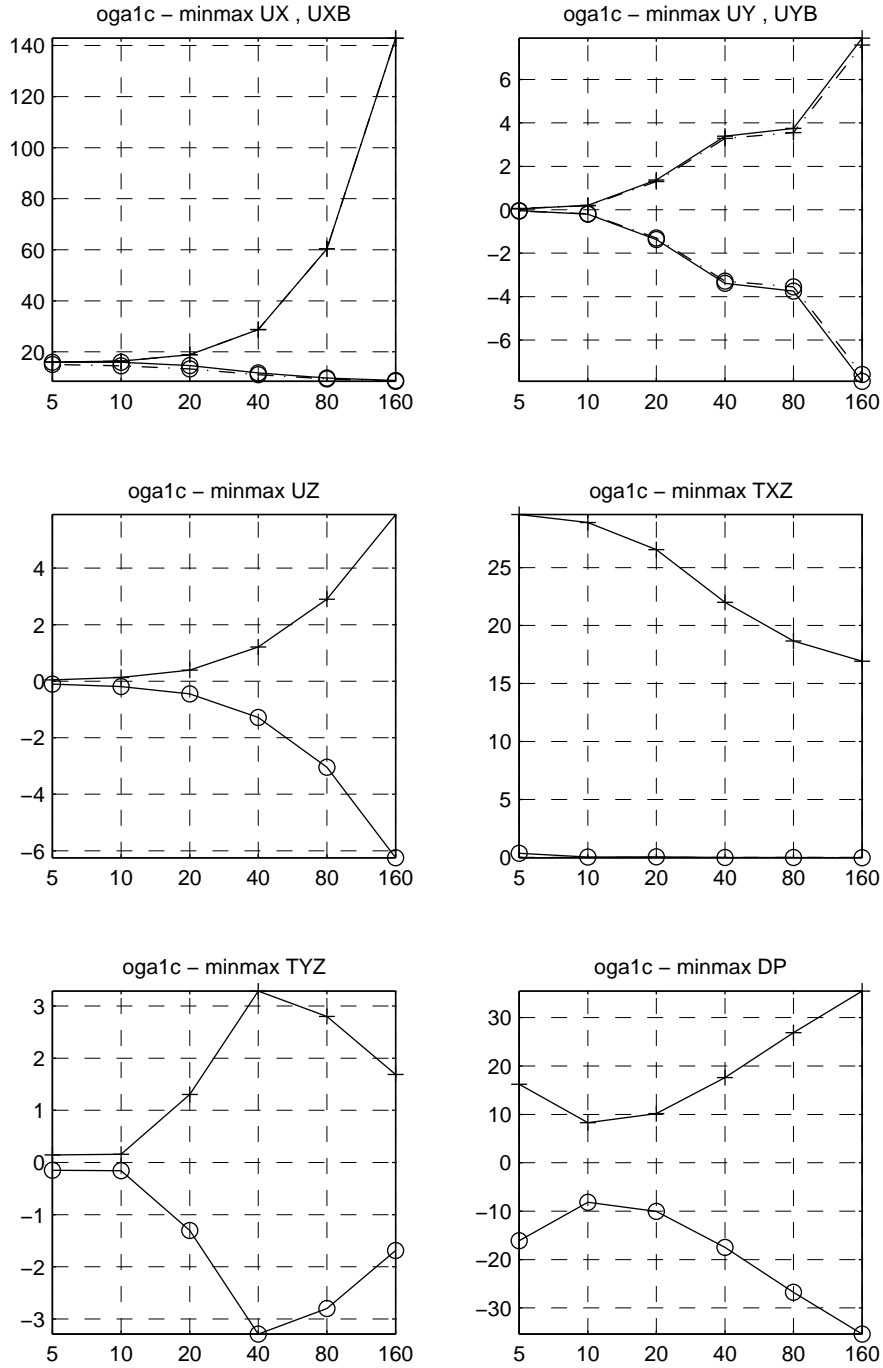
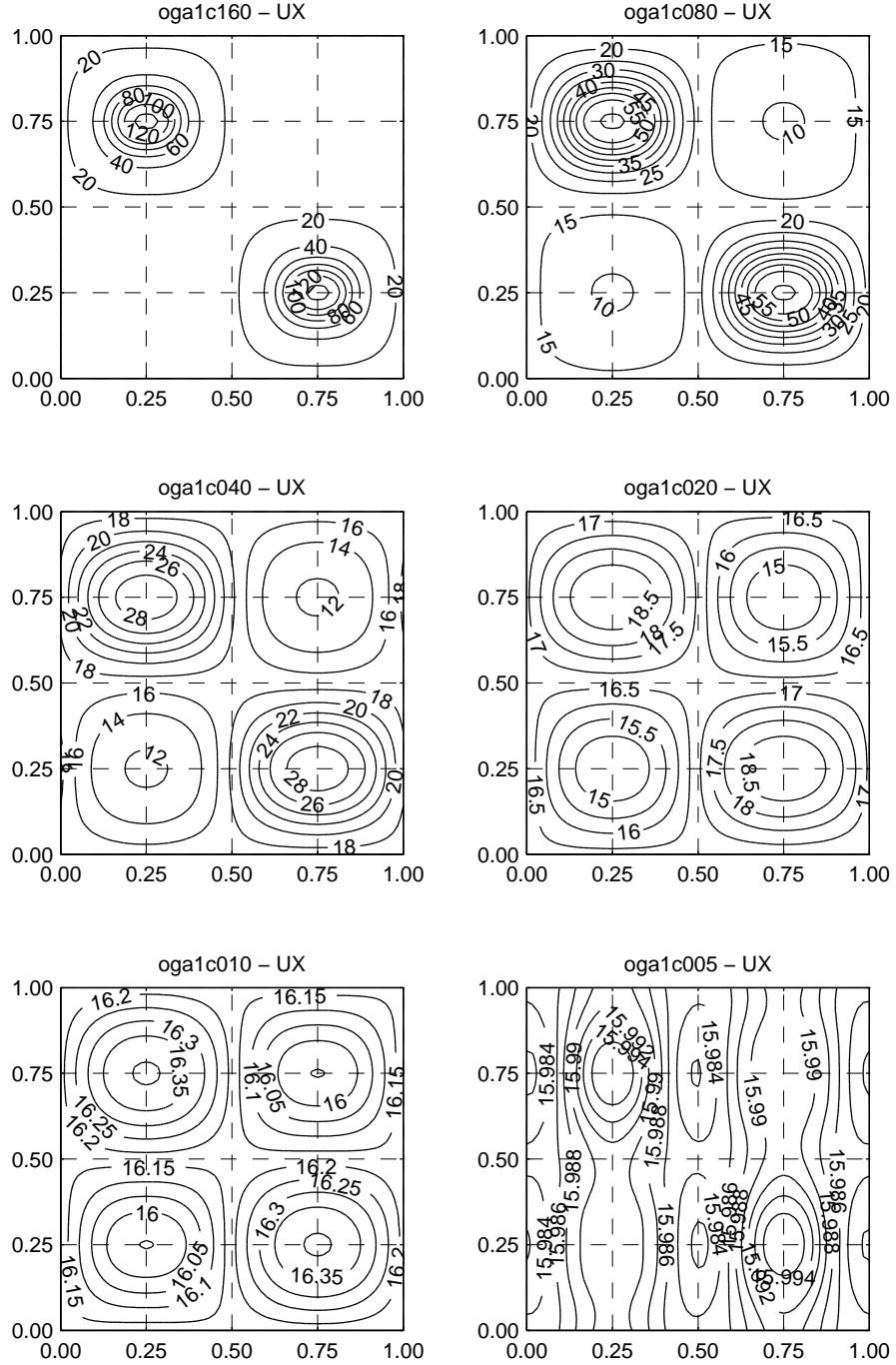


Fig. 13. Experiment C - Minimal and maximal values of the output variables

**Fig. 14.** Experiment C - $u_x(z_s)$ [ma^{-1}]

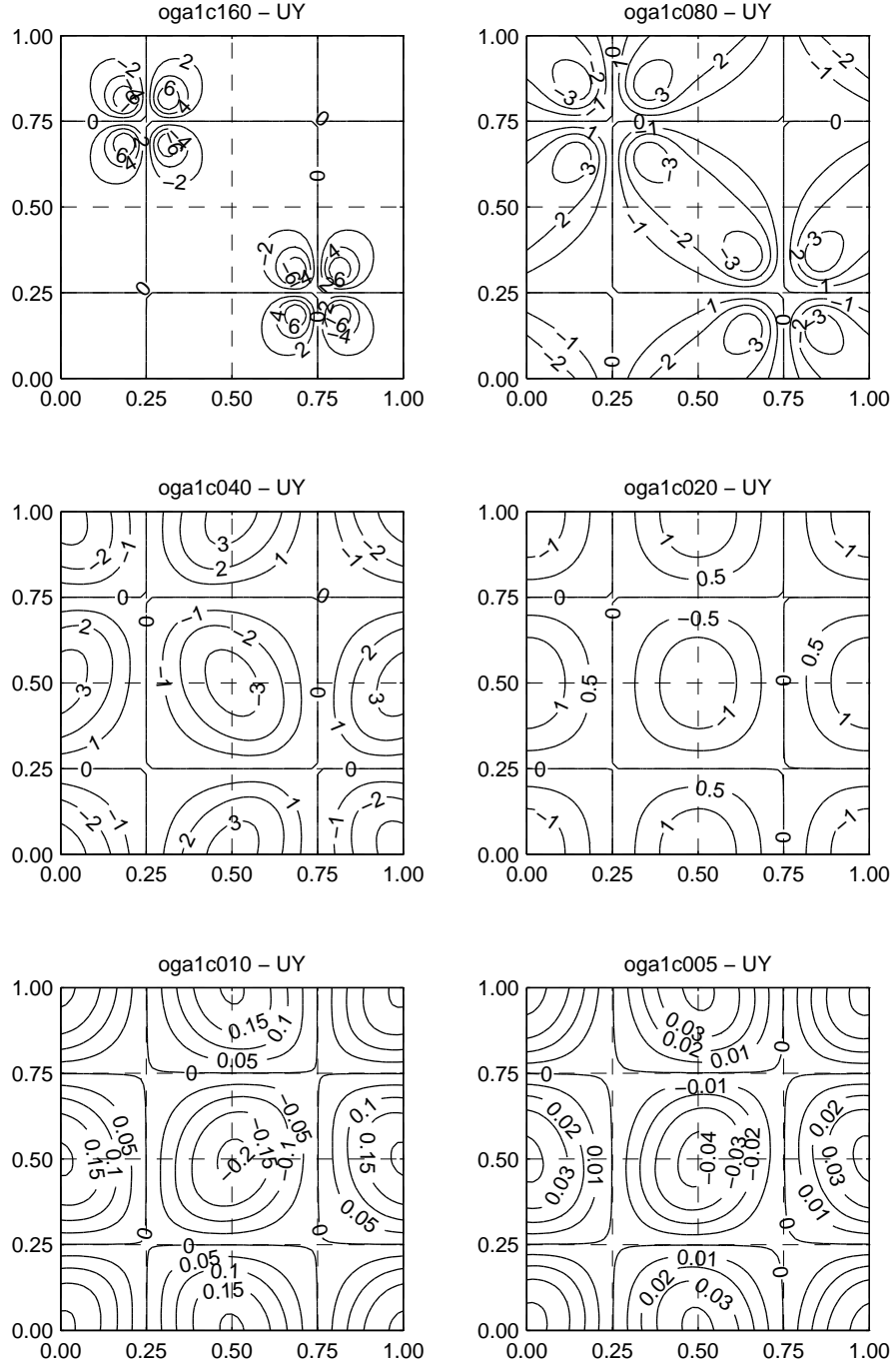
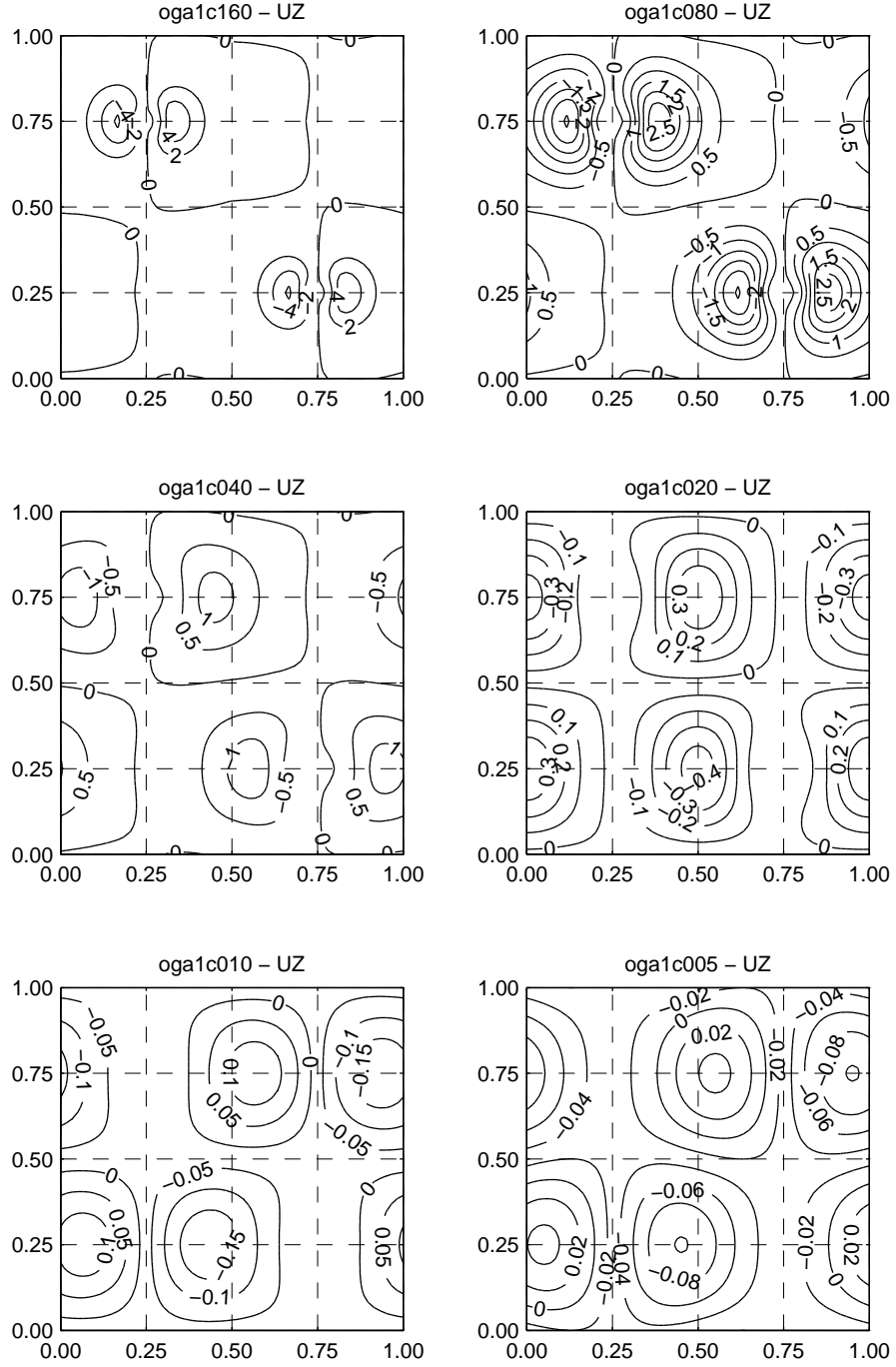


Fig. 15. Experiment C - $u_y(z_s)$ [ma^{-1}]

**Fig. 16.** Experiment C $-u_z(z_s)$ [ma^{-1}]

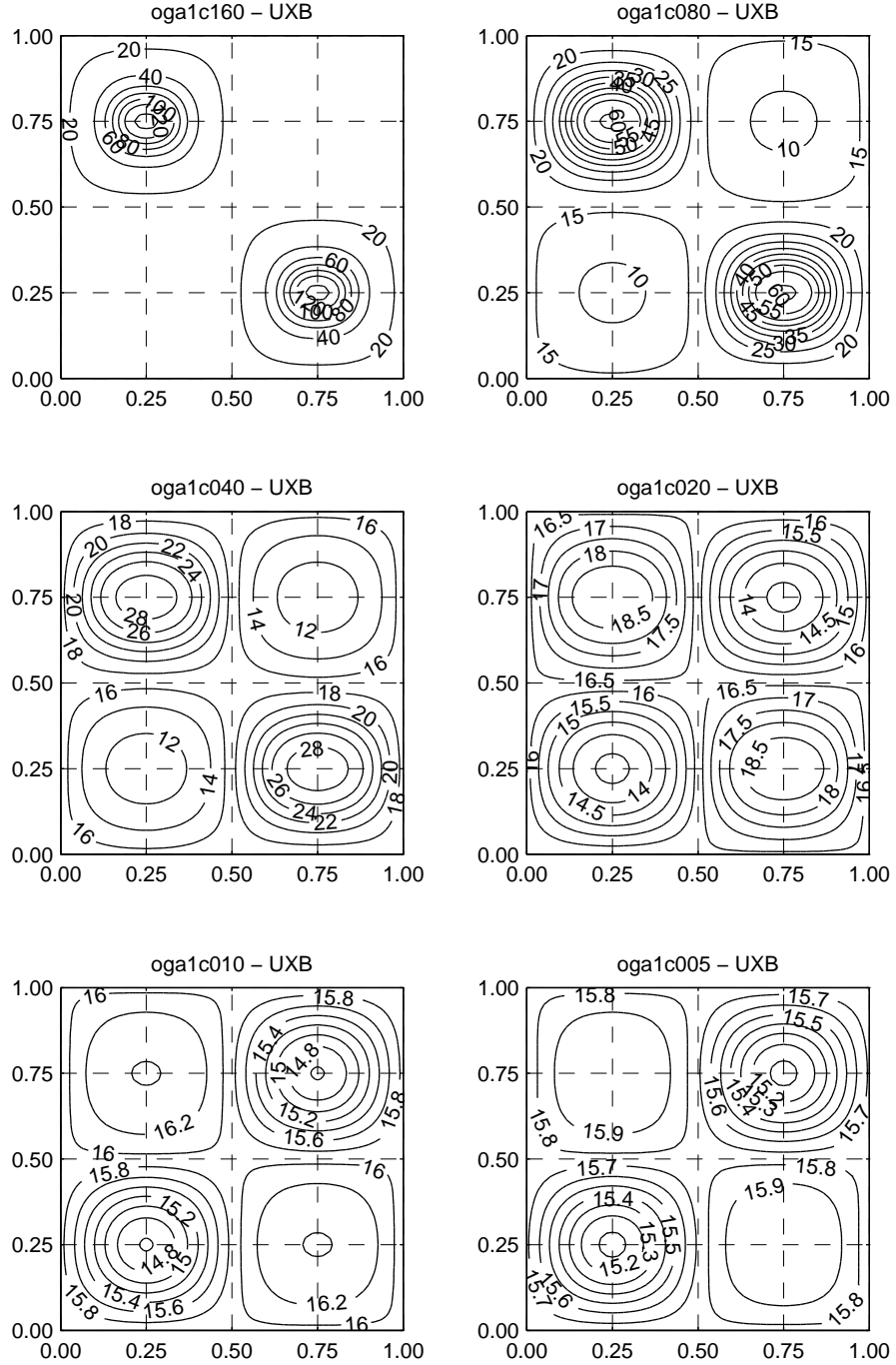
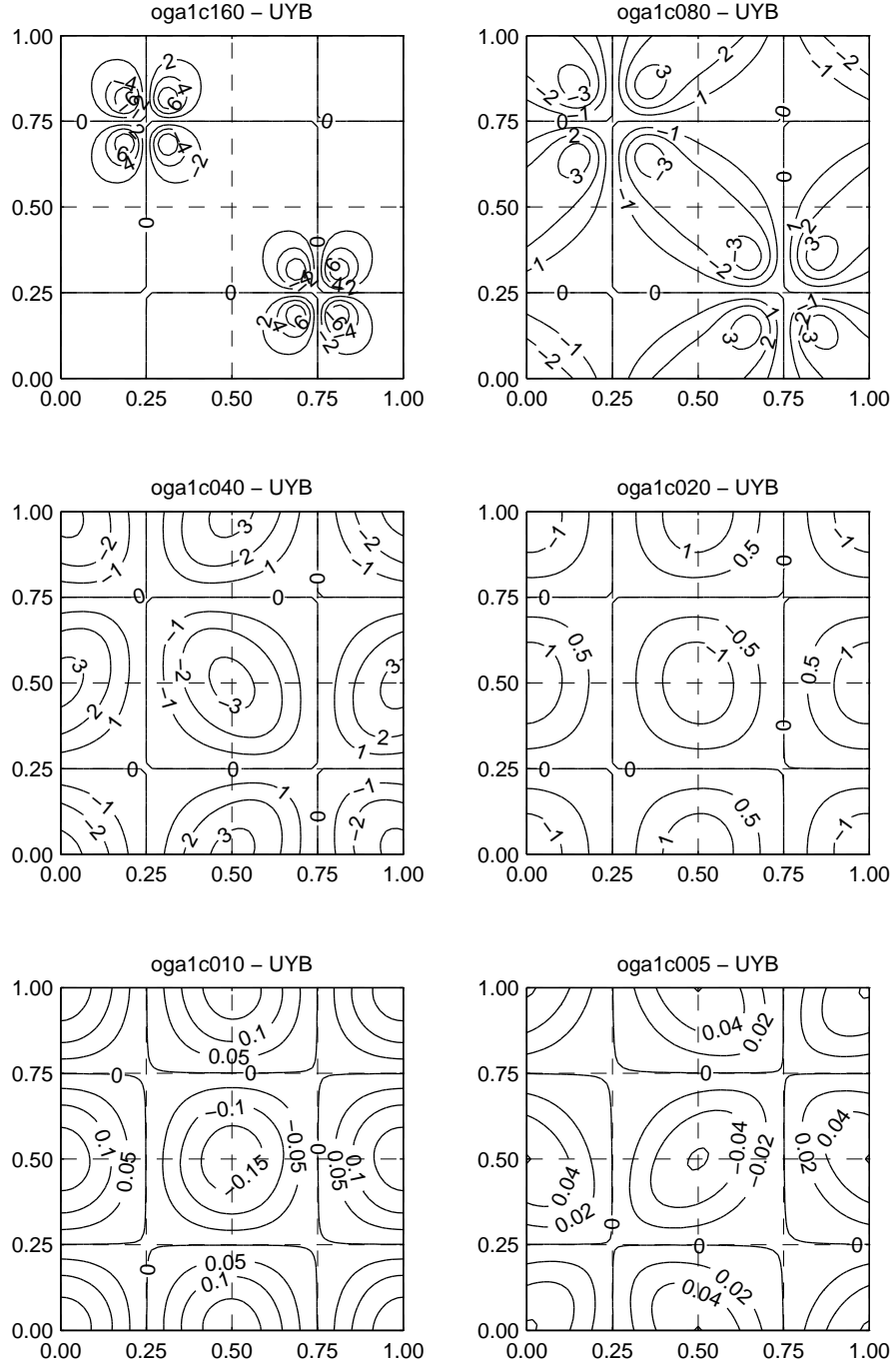


Fig. 17. Experiment C - $u_x(z_b)$ [ma^{-1}]

**Fig. 18.** Experiment C - $u_y(z_b)$ [ma^{-1}]

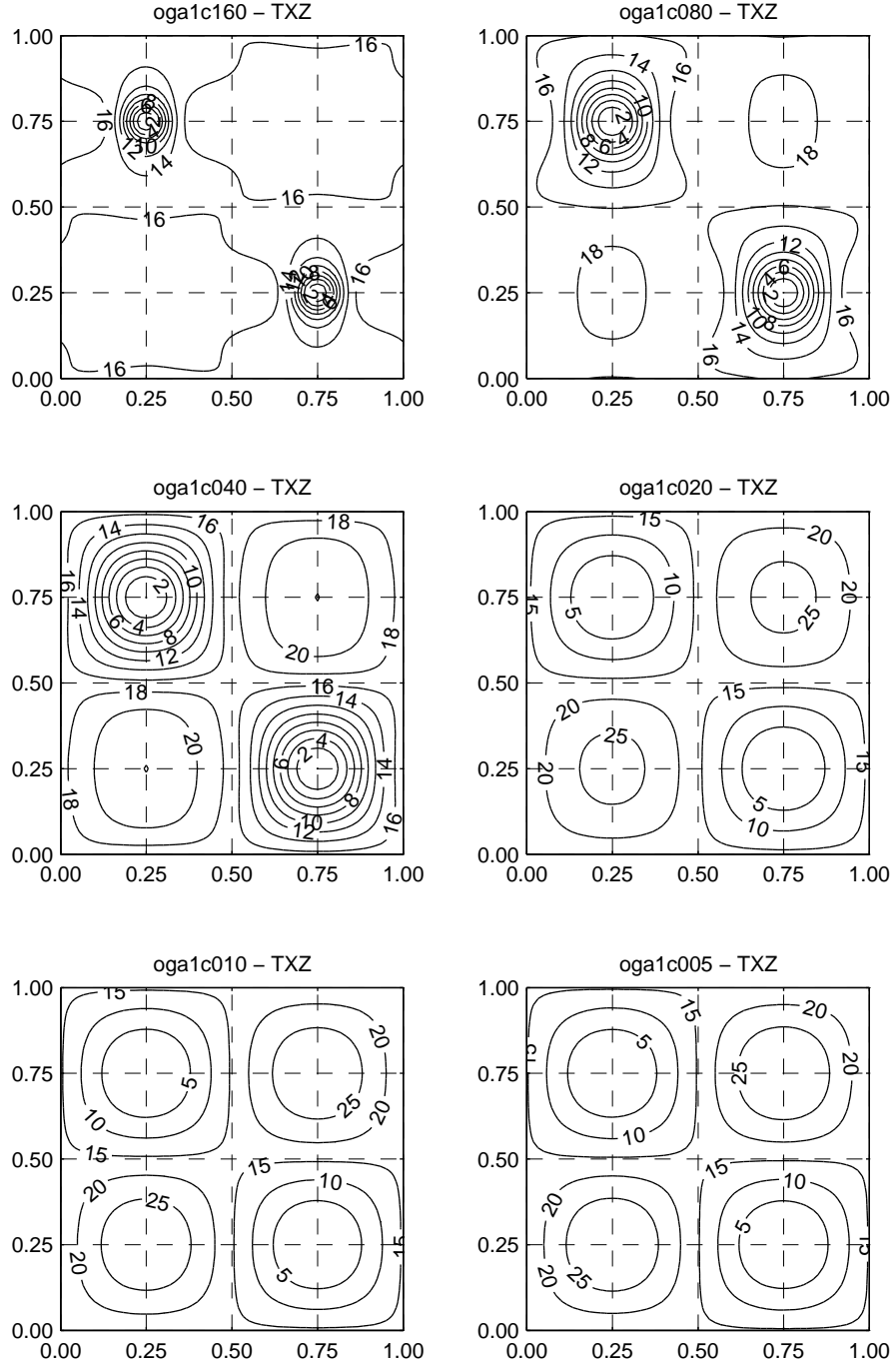
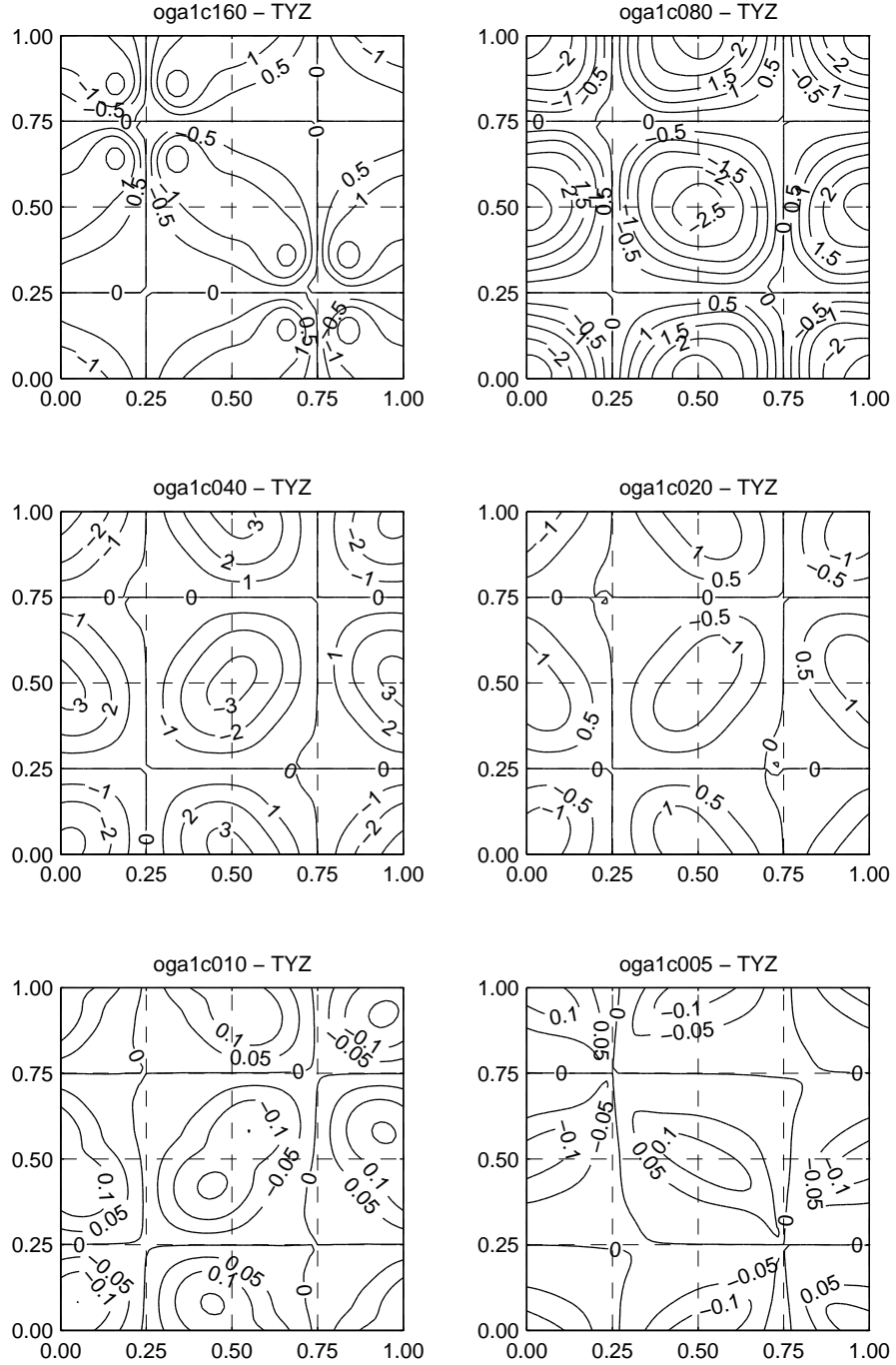


Fig. 19. Experiment C - $\sigma_{xz}(z_b)$ [kPa]

**Fig. 20.** Experiment C - $\sigma_{yz}(z_b)$ [kPa]

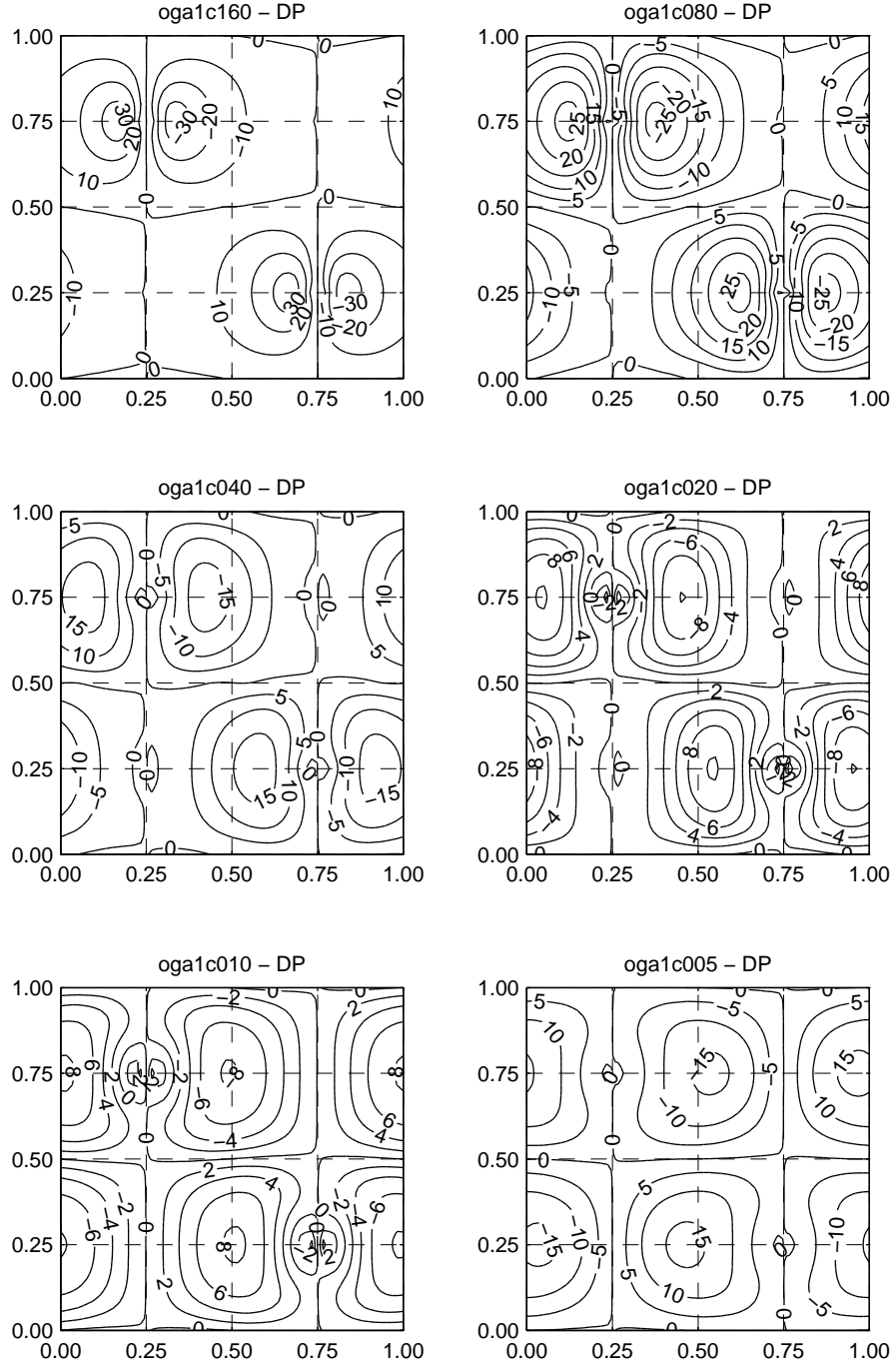
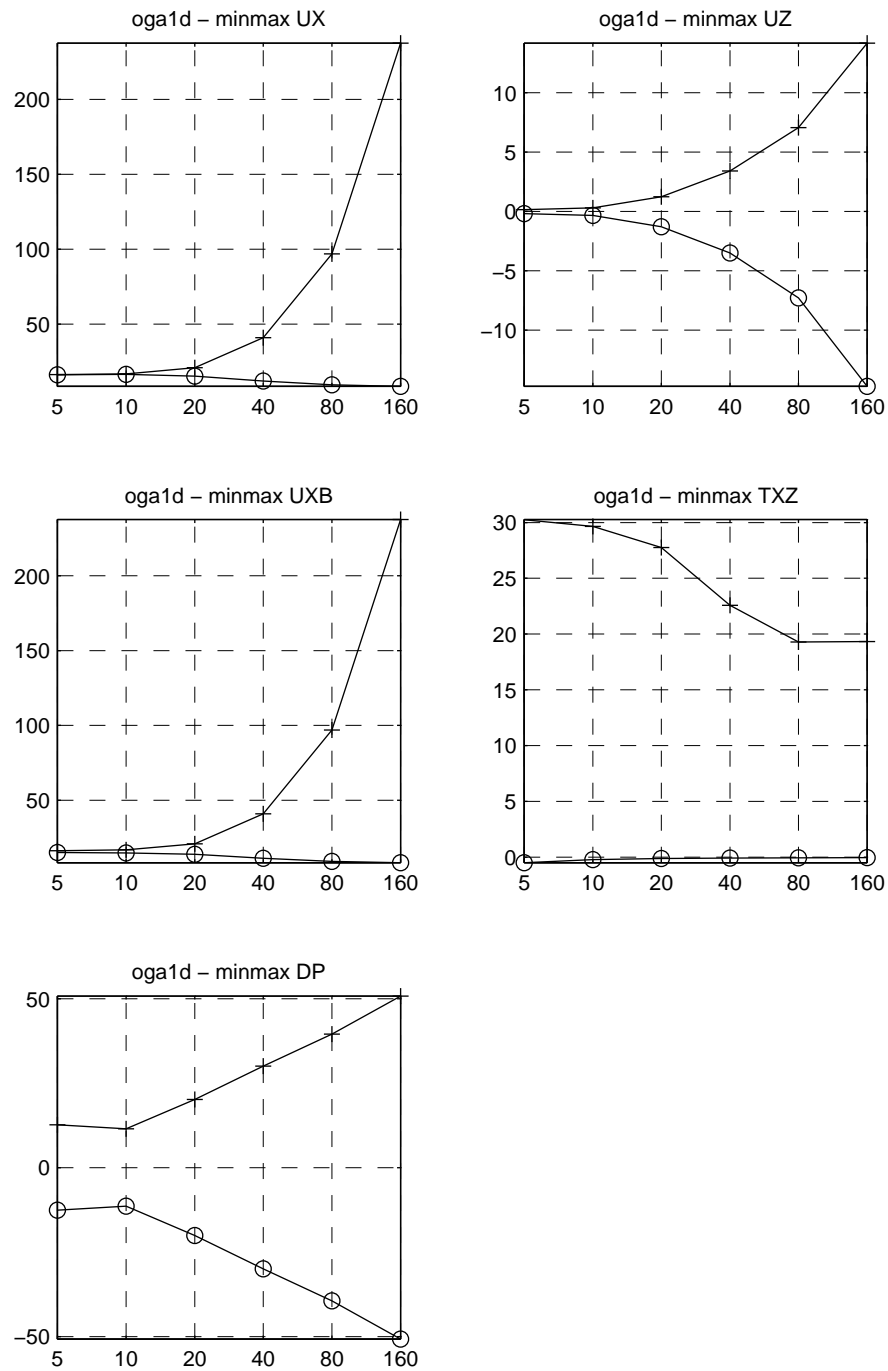


Fig. 21. Experiment C - $\Delta p(z_b)$ [kPa]

**Fig. 22.** Experiment D - Minimal and maximal values of the output variables

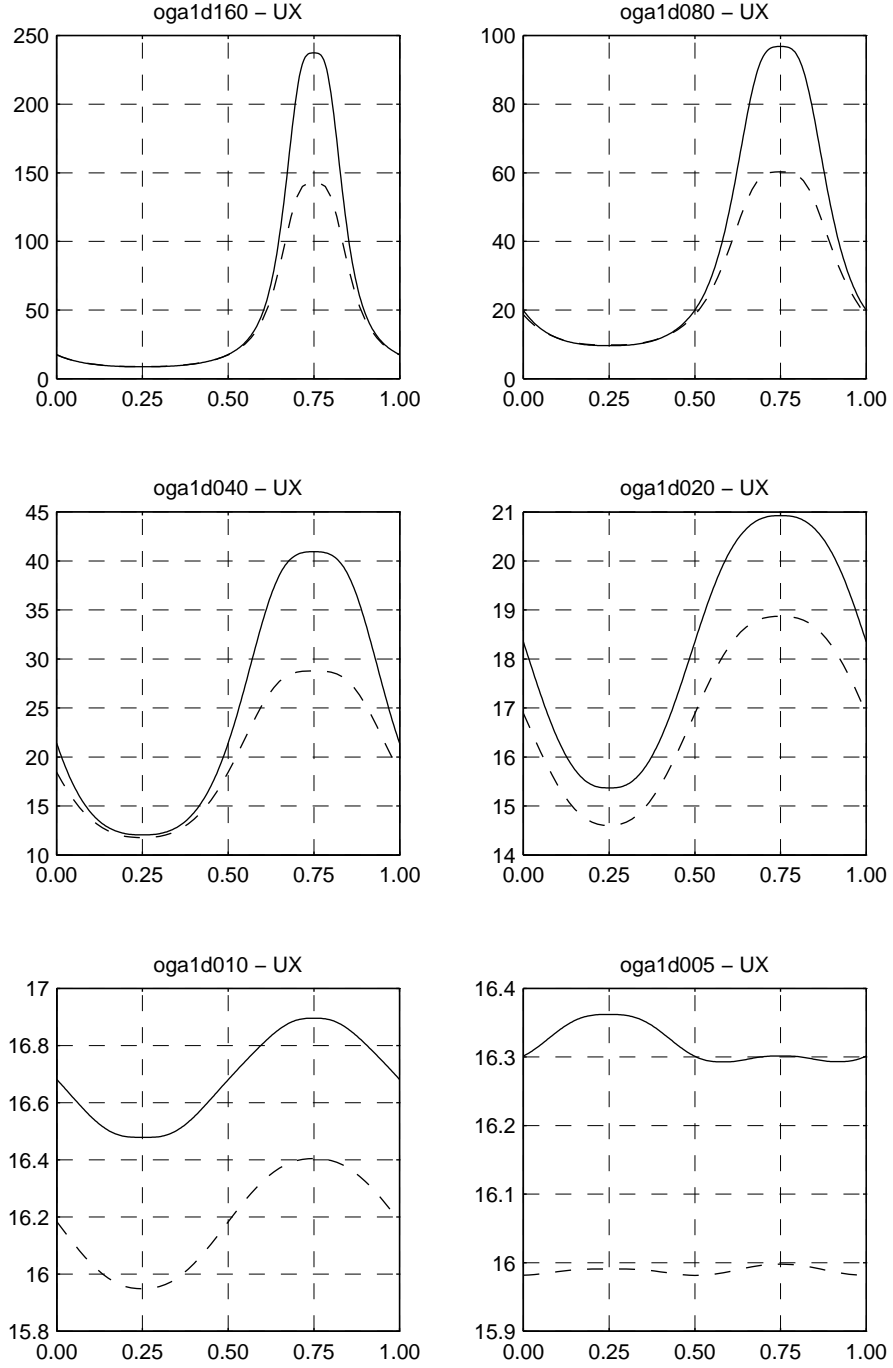


Fig. 23. Experiment D - $u_x(x, z_s)$ (solid line) and Experiment C $u_x(x, L/4, z_s)$ (dashed line) [m s^{-1}]

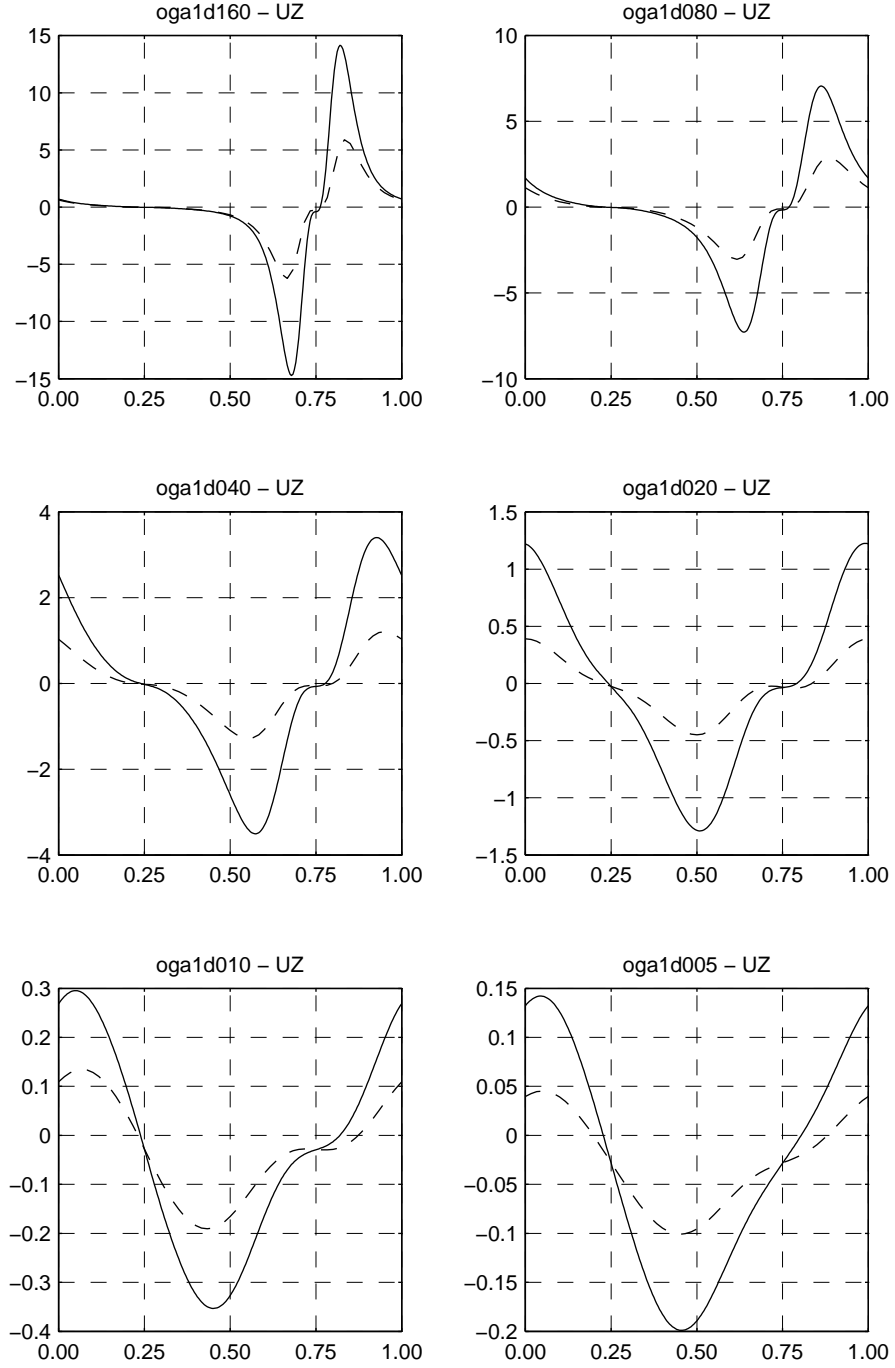


Fig. 24. Experiment D - $u_z(x, z_s)$ (solid line) and Experiment C $u_z(x, L/4, z_s)$ (dashed line) [ma^{-1}]

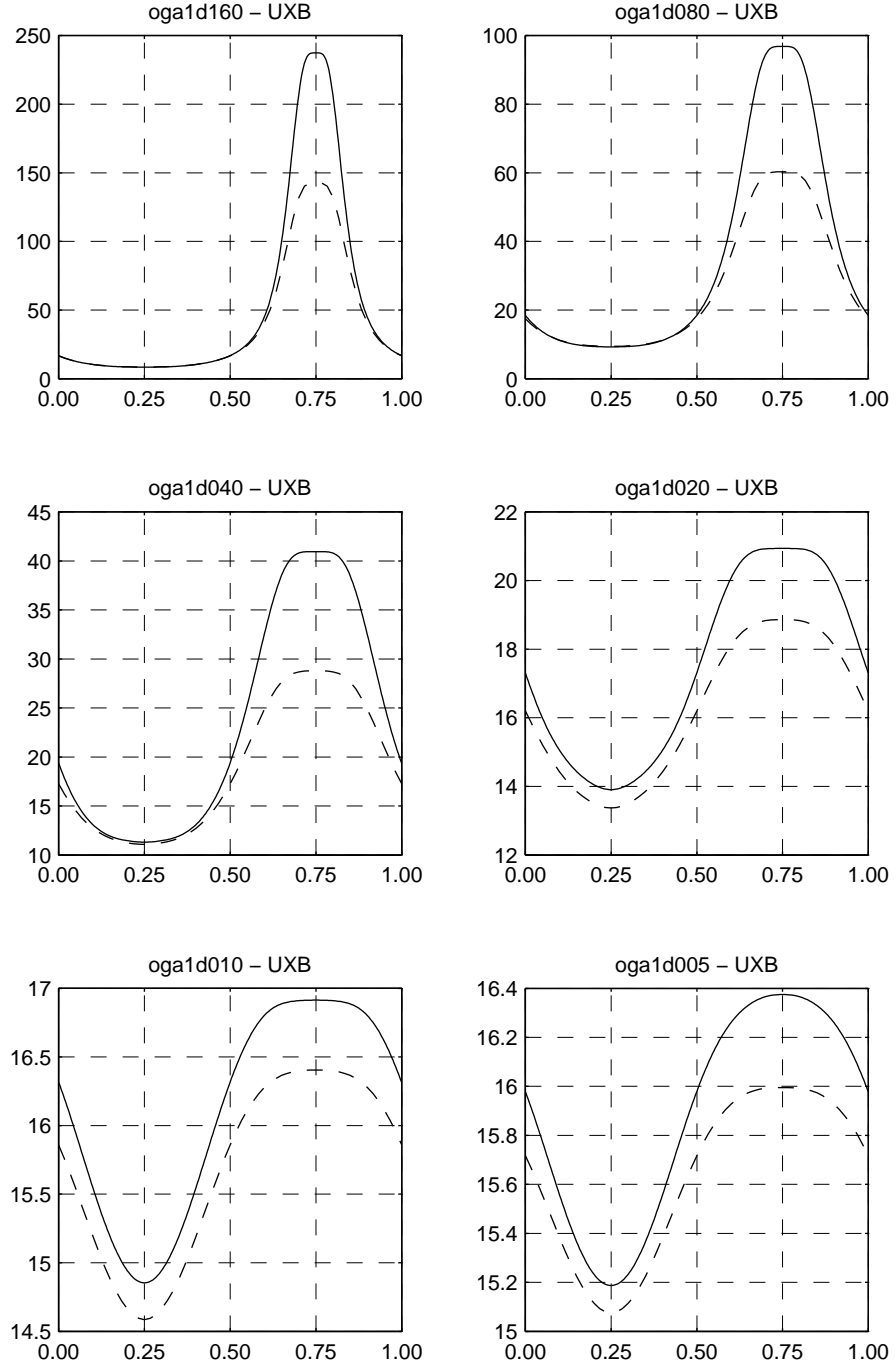


Fig. 25. Experiment D - $u_x(x, z_b)$ (solid line) and Experiment C $u_x(x, L/4, z_b)$ (dashed line) [ma^{-1}]

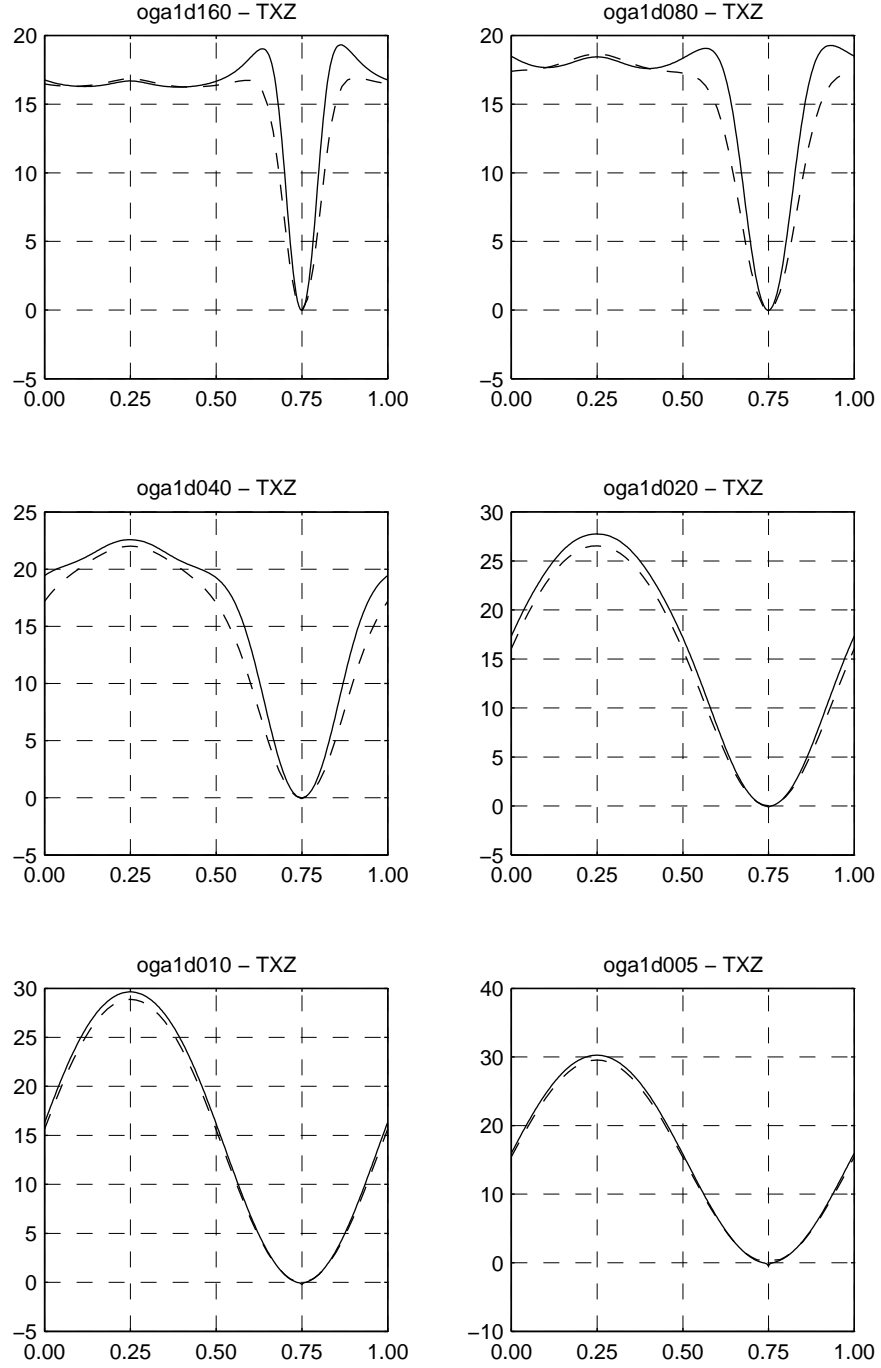


Fig. 26. Experiment D - $\sigma_{xz}(x, z_b)$ (solid line) and Experiment C $\sigma_{xz}(x, L/4, z_b)$ (dashed line) [kPa]

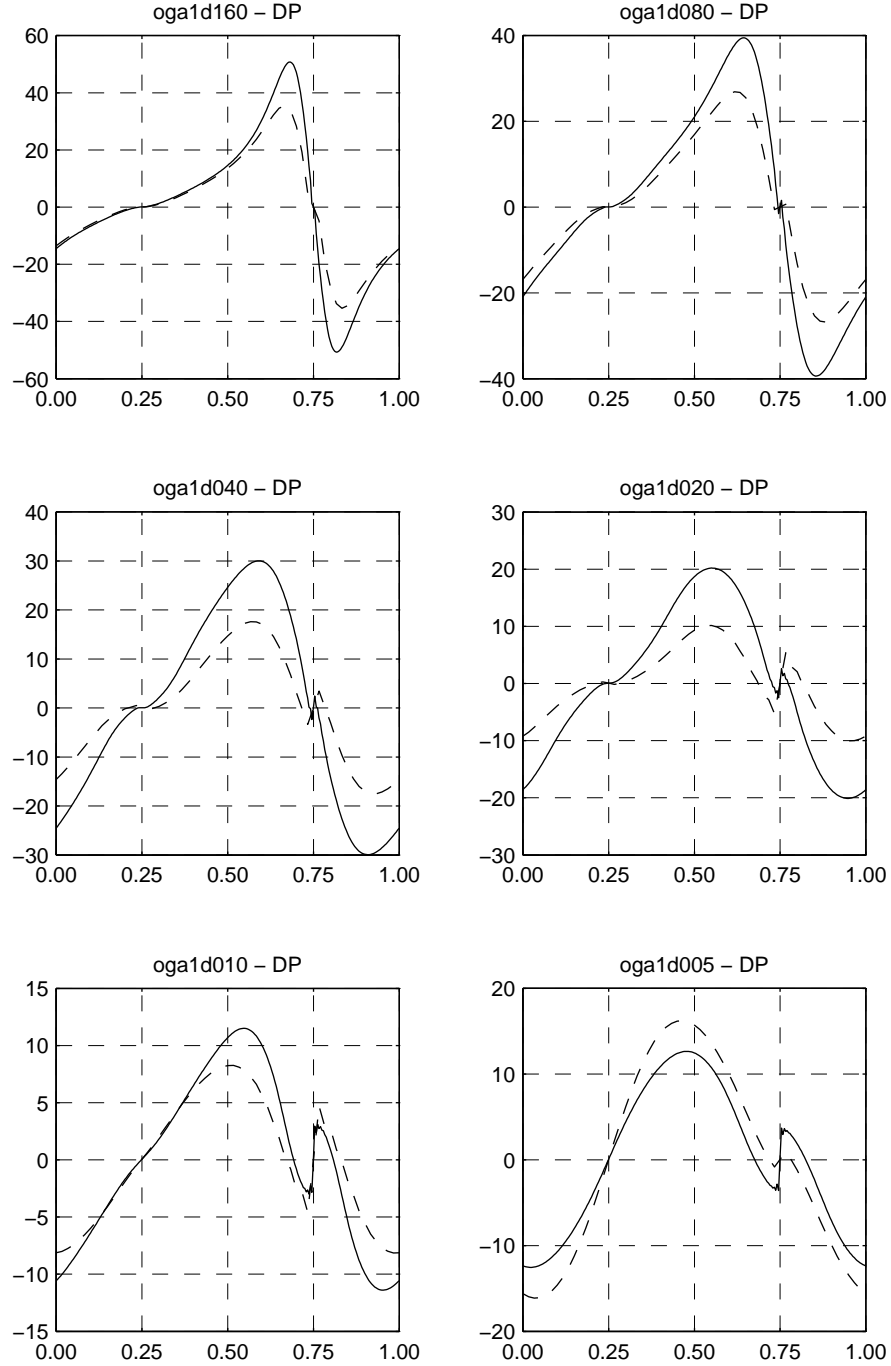


Fig. 27. Experiment D - $\Delta p(x, z_b)$ (solid line) and Experiment C $\Delta p(x, L/4, z_b)$ (dashed line) [kPa]

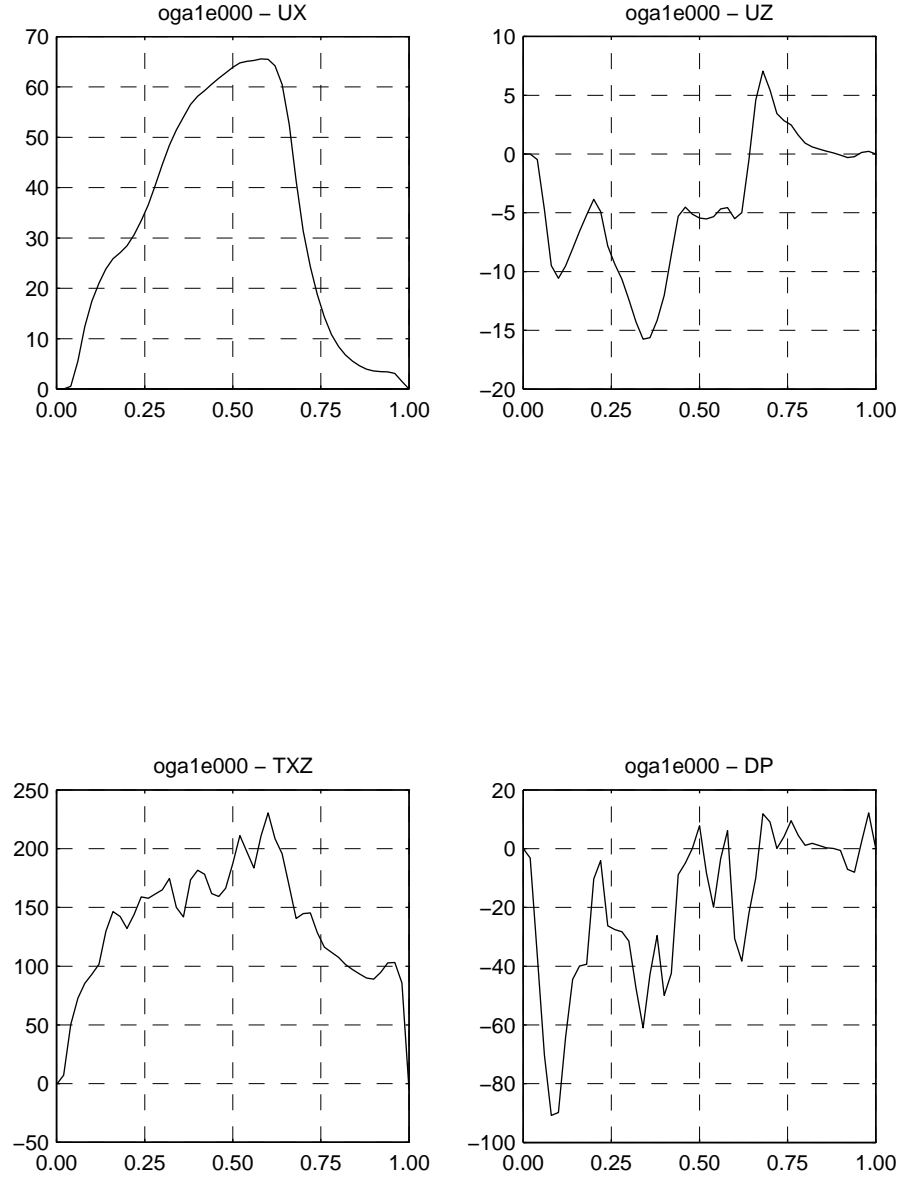


Fig. 28. Experiment E000 - $u_x(z_s)$ [ma^{-1}], $u_z(z_s)$ [ma^{-1}], $\sigma_{xz}(z_b)$ [kPa] and $\Delta p(x, z_b)$ [kPa]

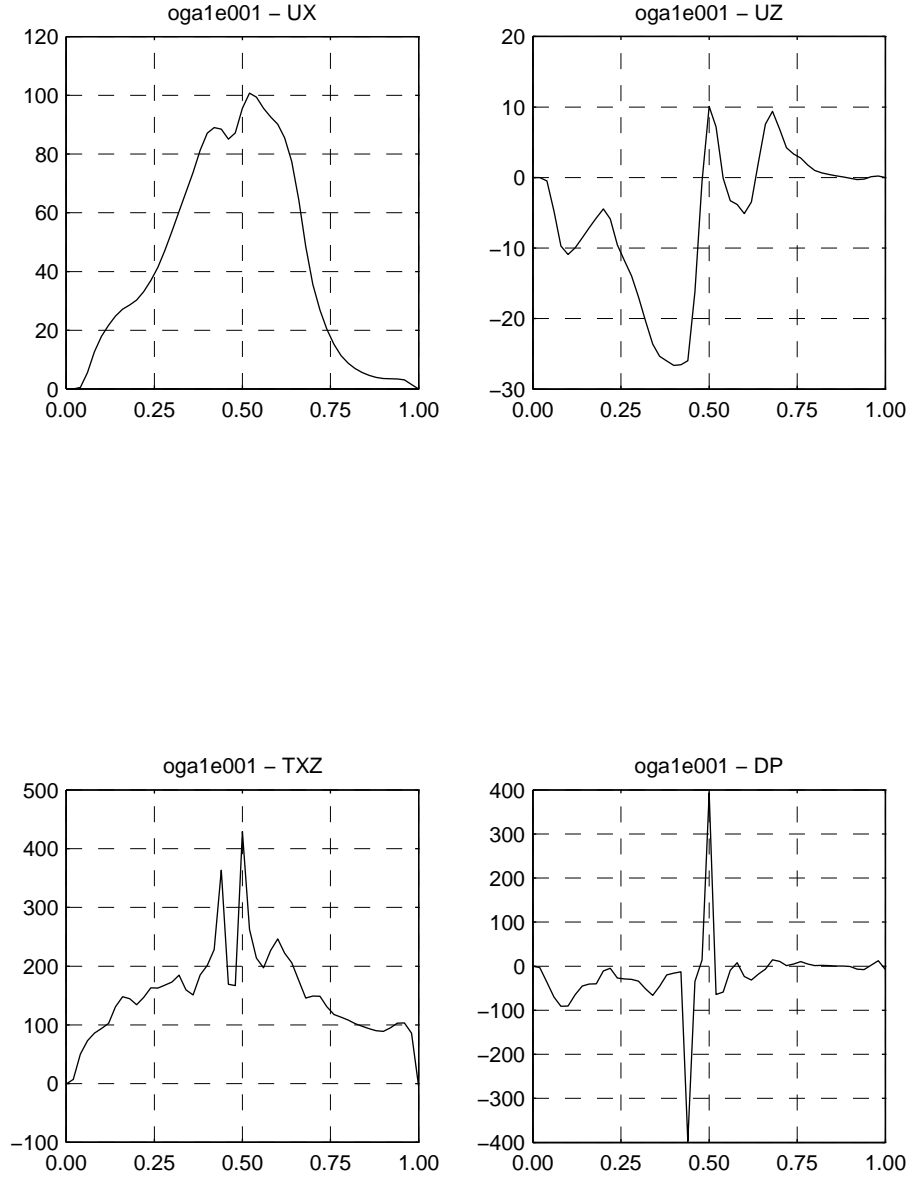


Fig. 29. Experiment E001 - $u_x(z_s)$ [ma^{-1}], $u_z(z_s)$ [ma^{-1}], $\sigma_{xz}(z_b)$ [kPa] and $\Delta p(x, z_b)$ [kPa]

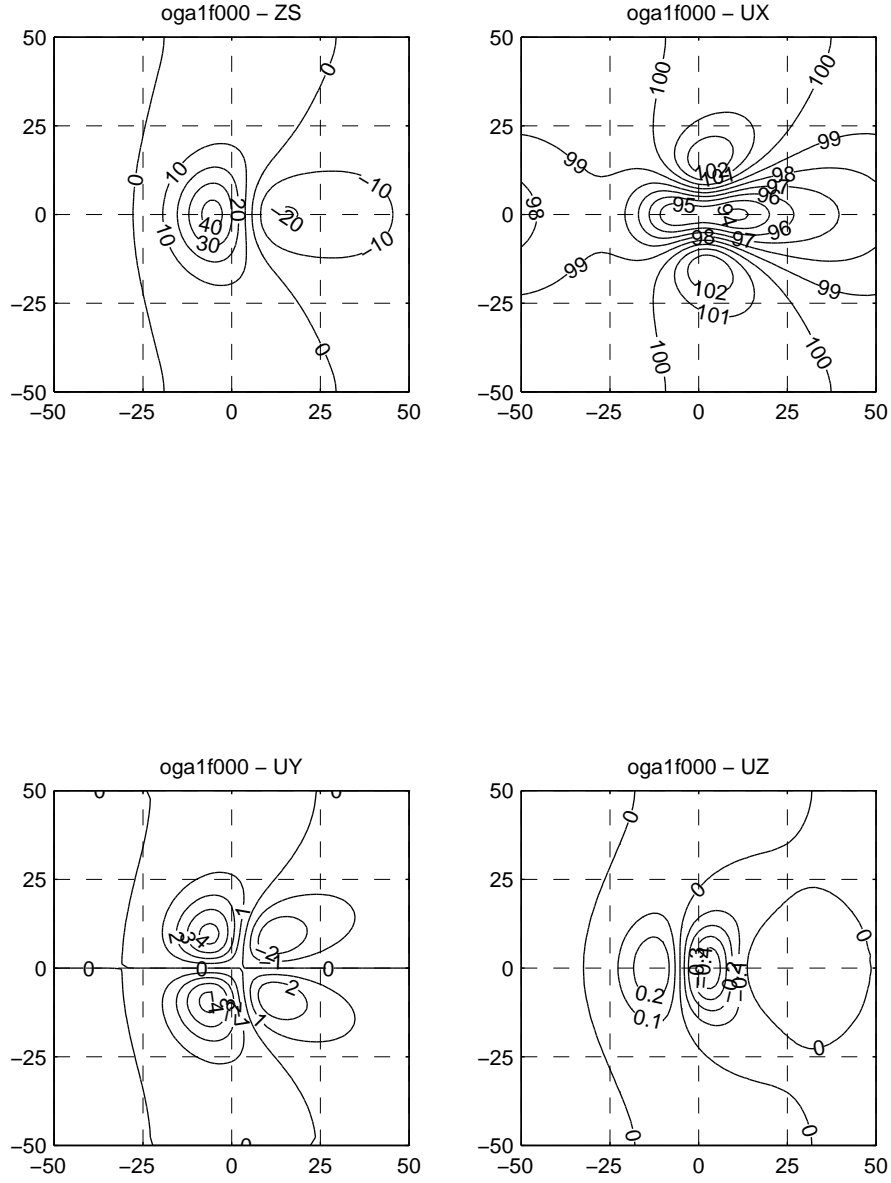


Fig. 30. Experiment F000 - z_s [m], $u_x(z_s)$ [ma^{-1}], $u_y(z_s)$ [ma^{-1}] and $u_z(z_s)$ [ma^{-1}]

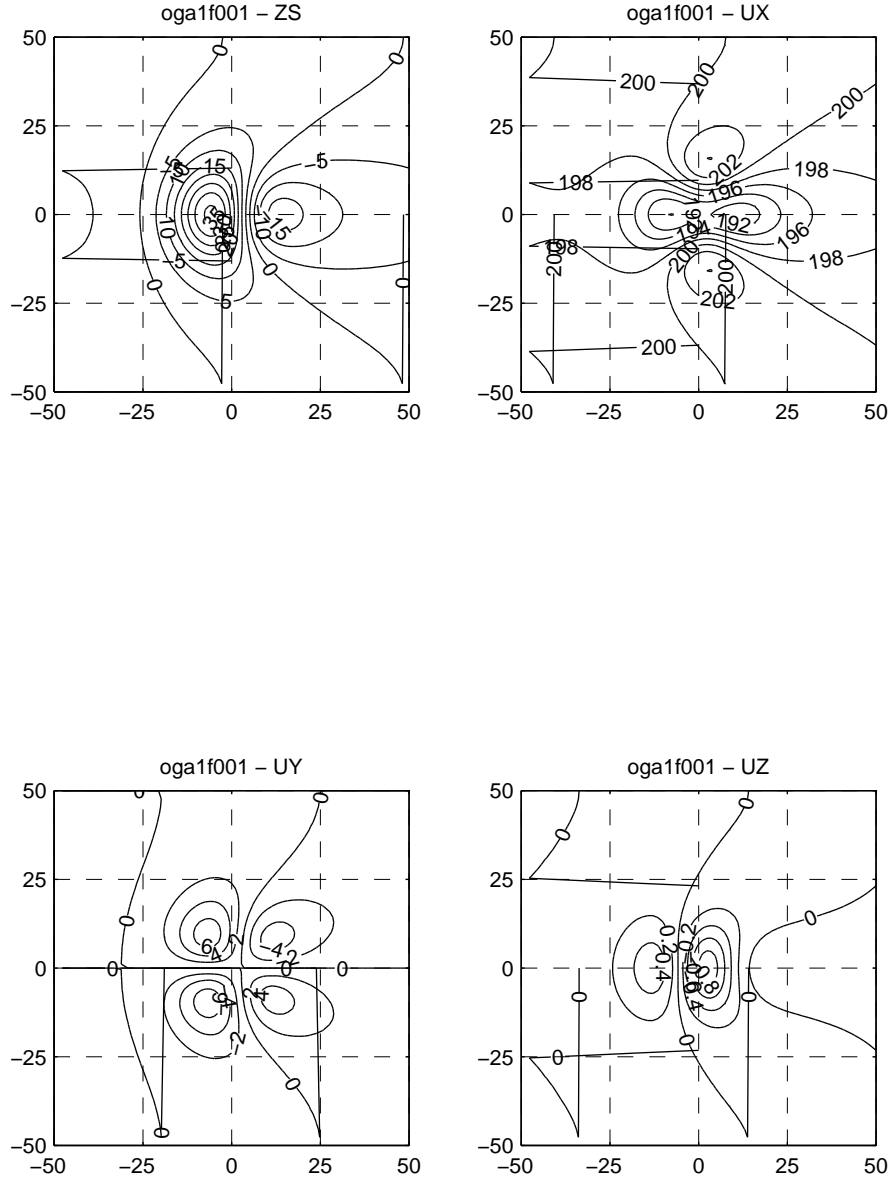


Fig. 31. Experiment F001 - z_s [m], $u_x(z_s)$ [ma^{-1}], $u_y(z_s)$ [ma^{-1}] and $u_z(z_s)$ [ma^{-1}]