

Contents

Glaciers and Ice Sheets

- A.N. Veres, A.A. Ekaykin, D.O. Vladimirova, A.V. Kozachek, V.Ya. Lipenkov, A.A. Skakun.* Climatic variability in the era of MIS-11 (370–440 ka BP) according to isotope composition (δD , $\delta^{18}O$, $\delta^{17}O$) of ice from the Vostok station cores 149
- E.N. Vilesov.* Changes in the size and condition of the glaciers in Kazakhstan for the last 60 years (1955–2015) 159
- V.V. Paromov, Yu.K. Narozhnyi, L.N. Shantykova.* Estimation of current dynamics and forecast of glaciological characteristics of the Malyi Aktru Glacier (Central Altai) 171

Snow Cover and Avalanches

- A.V. Sosnovsky, N.I. Osokin, G.A. Chernyakov.* Dynamics of snow storages in forests and fields of Russian plains under climate changes 183
- T.B. Titkova.* Variability of winter runoff of the Oka River and its relationship with climate change 191

Ground Ice and Icings

- A.N. Kurchatova, V.V. Rogov.* Formation of geochemical anomalies in hydrocarbon migration in the permafrost zone of Western Siberia 199

Sea, River and Lake Ice

- P.V. Bogorodskii, A.S. Grubiy, V.Y. Kustov, A.P. Makshtas, L.A. Sokolova.* Growth of the fast ice and its influence on the freezing of bottom sediments in the Buor-Khaya Bay coastal zone, Laptev Sea 213
- V.K. Smakhtin.* Ice regime of Transbaikalia lakes in the present-day warming 225

Palaeoglaciology

- V.V. Malakhova, A.V. Eliseev.* Influence of rift zones and thermokarst lakes on the formation of subaqueous permafrost and the stability zone of methane hydrates of the Laptev Sea shelf in the Pleistocene 231

Applied Problems

- A.N. Zolotokrylin, V.V. Vinogradova, I.A. Sokolov.* Climate change and the human life conditions in the Arctic Zone of the Russian Federation 243

Express Information

- V.Ya. Lipenkov, A.A. Ekaykin.* Hunting for Antarctica's oldest ice 255

Critique and Bibliography

- V.M. Kotlyakov, L.P. Chernova.* Annotated bibliography of the Russian languages literature on glaciology for 2016 261