

LIST OF FIMA PROJECT PUBLICATIONS

2015

Onishchenko, D., Marchenko, A., 2015. Analytical estimation of maneuverability of moored FPU with internal turret in closed ice. POAC-00082.

Marchenko, A., Onishchenko, D., 2015. Analytical modeling of passive turn of turret moored vessel in closed drift ice. RAO / CIS OFFSHORE 2015, 348-353.

Onishchenko, D., Marchenko, A., 2015. Modelling of the turn at rest for a vessel-type floating structure with an inner gun ring in conditions of close ice. Vesti gazovoy nauki, Moscow, Gazprom VNIIGAZ LLC, 2(22), 124-132.

Marchenko, A., Gorbatsky, V., Turnbull, I., 2015. Characteristics of under-ice ocean currents measured during wave propagation events in the Barents Sea. POAC-00171.

Marchenko, N., Marchenko, A., 2015. Sea currents and ice drift in Western part of Barents Sea. Comparison of data from floating and fixed on ice buoys. POAC-00176.

Sakharov, A., Karulin, E., Marchenko, A., Karulina, M., Sodhi, D., Chistyakov, P., 2015. Failure envelope of the brittle strength of ice in the fixed-ends beam test (two scenarios). POAC-00230.

Karulina, M., Karulin, E., 2015. Challenges of ice model tests with moored structures: effect of measuring techniques on the results and reconstruction of ice loads. POAC-00041.

2016

Konstantinova, M., Marchenko, A., Karulina, M., Sakharov, A., Karulin, E., Chistyakov, P., 2016. In-situ investigations of ice deformations and loads in indentation tests. Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor, paper 4870465.

Chistyakov, P., Karulin, E., Marchenko, A., Sakharov, A., Lishman, B., 2016. The tensile strength of saline and freshwater ice in field tests. Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor, paper 4872921.

Murdza, A., Marchenko, A., Chistyakov, P., Karulin, E., Sakharov, A., Karulina, M., 2016. Test with L-shaped cantilever beam for complex shear and bending strength. Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor, paper 4865605.

Shestov, A.S., Marchenko, A.V., 2016. Thermodynamic consolidation of ice ridge keels in water at varying freezing points. Cold Regions Science and Technology, 121, 1-10.

Shestov, A.S., Marchenko, A.V., 2016. The consolidation of saline ice blocks in water of varying freezing points: Laboratory experiments and computer simulations. Cold Regions Science and Technology, 122, 71-79.

Yulmetov, R., Marchenko, A., Loset, S., 2016. Iceberg and sea ice drift tracking and analysis off north-east Greenland. Ocean Engineering, 123, 223-237.

Yulmetov, R., Lubbad, R., Løset, S., 2016. Planar multi-body model of iceberg free drift and towing in broken ice. *Cold Regions Science and Technology* 121, 154–166.

Marchenko, A., Diansky, N., Fomin, V., Marchenko, A., Ksenofontova, D., 2016. Consolidation of Drifting Ice Rubble in the North-West Barents Sea. *Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor*, paper 4868538.

Marchenko, A., Diansky, N., Onishchenko, D., Chumakov, M., Nikitin, M., Fomin, N., Marchenko, N., 2016. Investigation of ice drift and evolution of consolidated layer of ice ridges in North-West Barents Sea. *Proceedings of Hydrometcentre of Russia*, 361, 231–260.

Marchenko, A., 2016. Physical mechanisms limiting sizes of pressure ice ridges and model of ice rubble formation. *Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor*, paper 4868364.

Marchenko, N., 2016. Comparison of Sea Ice Products and data of drifting buoys. *Proc. of the 23rd IAHR Symposium on Ice, Ann-Arbor*, paper 4864850.