Problems and Perspectives of Modern Transportations
Through Northern Sea Route of the Russian Federation

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ABSTRACT

This work is devoted to issues related to the organization of traffic between the Far East and Northern Europe via the Northern Sea Route (NSR). The paper the overview (2010-2012 years) of the experience transportation of Russian and foreign cargoes along arctic coast of Russia is given. The development of icebreaking cargo ships of the Russian transport fleet, ice-reinforced drilling platforms and other infrastructure is reviewed. The description of geographic and climatic features and histories of development for the NSR is given.

For this work materials of the author on research of water transport systems (Taranukha, 2010) and sea ice-resistant drilling platforms (Taranukha, 2004, 2009, 2010) are used. In the survey part of the report open materials of the Internet (Northern …, 2009-2012, Economic …, 2009-2012) are used.

KEY WORDS: Northern Sea Route, Russian Federation, transportation, problems.

DESCRIPTION OF THE NORTHERN SEA ROUTE

The Northern Sea Route (Fig.1) is shortest route between the European part of Russia and the Far East.

ADVANTAGES AND PROBLEMS OF TRANSIT TRANSPORTATIONS BY NORTHERN SEA ROUTE

Advantages:
– reduction of duration of flight: and as a result reduction of cost of a freight and expenses on crew compensation;
– reduction of length of a route and as a result reduction of costs on fuel;
– reduction of distance and as a result reduction of expenses by fuel;
– absence of payment for pass by channel;
– absence of sequential queue of the ship at pass on a channel;
– absence of risk of attack of pirates.

Problems:
– existence of ice dangers (not always);