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Numerical modeling of water dynamics of Russian zone of the Black Sea within the framework of operational oceanography tasks

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Modeling of the Black Sea waters dynamics (Russian zone) was conducted within the framework of the European ARENA and ECOOP projects and Russian project JISWO on the basis of Princeton Ocean Model (POM). Nowcasting and three days forecasting of the Black Sea dynamics was carried out in a daily mode with horizontal resolution of ~1 km along the Russian coast of the basin. Examples of calculations are presented and their comparison with space remote sensing and in situ (hydrological measurements) data is fulfilled, results of model validation are discussed. Model data reproduce observed real dynamic structures. Increasing a spatial resolution of processes allows reproduce in calculations the details of hydrological structure, which do not principally find displaying in large-scale models (vortexes with horizontal spatial sizes ~10 km). The conclusion that the proposed modeling technology can adequately monitor the variability of the waters of the region with the spatial and temporal resolution, unattainable using only field data, can prove important for operational oceanography.

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Investment opportunity in coastal areas

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Investment in coastal area poses high risk but having huge business potentiality in the global changing atmosphere. It could generate huge employment opportunity as well. Hunting of Coastal resources could be added at least 1% growth in the global GDP. Coastal towns throughout the world are flooded with tourists who are keen to soak up the sun and unwind in relaxing surroundings. With the warmer climates of summer approaching, it's only natural for investors to begin looking at coastal property markets for potential investment opportunities. For the past 10 years, house prices in coastal markets have typically seen strong levels of growth. In the majority of coastal locations, house prices have recorded annual growth of 10% over the last one decade. Environment and Natural Resources experts identified five projects intended to accelerate the development of the coastal and marine sector as priority areas for investment during the Coral Triangle Initiative (CTI) High-Level Financial Round Table meeting at the Philippine International Convention Center in Manila, in conjunction with the annual meeting of the Asian Development Bank. These include the establishment of an endowment fund as a sustainable financing mechanism for projects; design of a payment scheme for ecological services to promote private sector involvement; rehabilitation of mangroves as climate change adaptation strategy; establishment of an integrated information management system; and development of national integrated coastal and management program to uplift lives in coastal communities in Asia. Maine Coastal Program, promote sound waterfront planning and harbor management, balanced development of shore and harbor areas, advance planning for waterfront infrastructure improvements and access to the shore.

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