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Oceanography of a Large-Scale Estuarine System

By El-Sabh, Mohammed I. / Silverberg, Norman

Book Condition: New. Publisher/Verlag: Springer, Berlin | The St. Lawrence | This is the first book for over twenty years on the physical, biological, chemical and geological characteristics of a large-scale estuary. Interdisciplinary, concise and cohesive, it is applicable as a model for worldwide estuary study. From the contents : Mathematical Modeling of Tides in the St. Lawrence Estuary.- Fronts and Mesoscale Features in the St. Lawrence Estuary.- Nearshore Sediment Dynamics in the St. Lawrence Estuary.- Organic Geochemical Studies in the St. Lawrence Estuary. | 1. The St. Lawrence Estuary: Introduction.- Why this book ?.- Historical notes.- A large estuary.- of the volume.- 2. Mathematical Modelling of Tides in the St. Lawrence Estuary.- Tidal characteristics of the St. Lawrence Estuary.- Barotropic models.- Baroclinic models.- Conclusions.- 3. Meteorologically and Buoyancy Induced Subtidal Salinity and Velocity Variations in the St. Lawrence Estuary.- Field observation and data analysis.- The meteorological and buoyancy forcing.- The meteorologically induced variations.- The buoyancy induced variations.- Summary and conclusions.- 4. Fronts and Mesoscale Features in the St. Lawrence Estuary.- Upper Estuary.- Lower Estuary.- The Gaspé Current.- Conclusions.- 5. Topographic Waves and Topographically Induced Motions in the St. Lawrence Estuary.- Internal waves.- Internal tides and upwelling.- Vorticity waves.- Conclusions.-...



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