

# Abstract

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This paper reviews the importance of the testing of ECDIS (Electronic Chart Display and Information System) to ensure the absence of any of 19 anomalies that have been identified by IHO (International Hydrographic Organization) for Egyptian ships. The paper aims to submit a proposal to the EAMS (Egyptian Authority for Maritime Safety) about the special procedures and instructions for the ships entering Egyptian ports - as they rely on ECDIS as a primary means of navigation - to ensure the integrity of ECDIS operation. The paper also reviews the experimental operation that has been carried out on board the Egyptian Ship Aida IV by the researcher for testing the (CATZOC) Category of Zone of Confidence of Data for the Gulf of Suez, Gulf of Aqaba, Suez Canal and Red Sea electronic navigation charts in order to allow the (EAMS) to choose the most appropriate method to increase the safety of maritime navigation.