Abstract: Noise emissions from various transportation modes including seaports have become a major concern to environmental and governmental agencies in recent years due to the impact they have on the community. The Los Angeles-Long Beach port complex is one of the nation's largest ocean freight hubs and its busiest container port complex. As the container sector has the highest growth potential, the levels of noise generated by container traffic and handling activities may present a problem. The purpose of this study is to model the noise of container terminals at the Port of Long Beach and Port of Los Angeles using the noise mapping approach. The noise map provides a geographical view of the noise distribution in and around the Port areas and is used to assess the noise impact and identify the key noise source in the area. In addition, the noise model can help the port authorities predict the potential noise impact of future development plans of the Ports.

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