

# Environmental Impact Assessment of Petroleum Spill Using GIS

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## Summary

This study aims to illustrate the environmental impacts caused by oil spill in an ocean area. The Gulf of Mexico is selected as the study area with its abundant data sources. Three major factors are considered as the economic loss, namely economic activity loss, biodiversity loss and commercial fishery loss. The oil spill area in this poster is imaginary, but it will not affect the methodology behind the scene. The fishery and biodiversity loss are calculated based on economic loss per pixel per year in a dollar. The economic activity loss is calculated based on whether the oil spill area will cover the economic activity points. The final assessment result would be the total economic loss for the whole oil spill area per day in dollars.

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