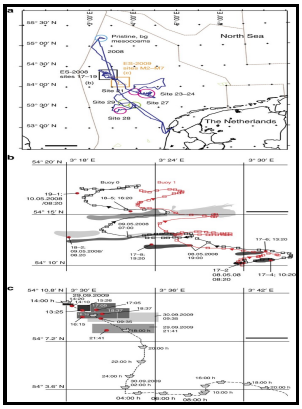
# Effects of oil and chemically dispersed oil on selected marine biota - a laboratory study contract 212B00439

## Battelle Pacific Northwest Laboratories - EFFECTS OF UNTREATED AND CHEMICALLY DISPERSED OIL ON TROPICAL MARINE COMMUNITIES: A LONG



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**Effects of oil and chemically dispersed oil on selected marine biota (1973 edition)**

Conclusions were drawn from these results on decision making for actual spills based on trade-offs between dispersing or not dispersing the oil. F-test comparisons from the fitted curves demonstrated a significant effect of exposure duration on EC 50 values for each dispersant and SDS Table. The time-dependent relationship between the EC x values and concentration was captured using a three parameter exponential decay function Fig.

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Each of the tasks proposed for the initial laboratory phase was designed to be applied during the proposed field phase, or to the assessment of an actual oil spill and need to be considered in that context. Toxicity testing of dispersed oil requires adherence to standardized protocols to assess potential real world effects. Surfactants impact organisms in a variety of ways but all are capable of denaturing and binding to proteins and altering the permeability of cell membranes.

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The SSDs were used to determine the predicted no-effect concentration which was assigned as 95% species protection PC95, this is equivalent to the HC5 where 5% of species are affected. In the first, oil and water could be mechanically mixed to a degree that a uniform distribution of small oil globules would exist throughout the system. .

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The only other study to publish EC 10 or EC 50 values on the effects of dispersants to coral, indicated that Corexit EC9500A was more than 10-fold less toxic to adult fragments of a temperate octocoral than to A. It is generally not recommended to apply dispersants in shallow environments or near coral reefs ,; however, dispersants were employed to reduce the surface slicks during the grounding of the Shen Neng 1 on a reef in the Great Barrier Reef Marine Park ,.

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AMOP technical seminar on environmental contamination and response. This assay therefore assessed whether larvae were functional following the dispersant exposure.

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In this study the toxicity of five dispersant formulations to coral larvae were tested over three short exposure periods 2, 6 and 24 h. Solutions of eight nominal concentrations 0, 1. Surfactants have a wide range of toxicities, with no effect concentrations of environmentally relevant endpoints reported between 0.

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