

CCLEAN Selected Results for 2001–2005

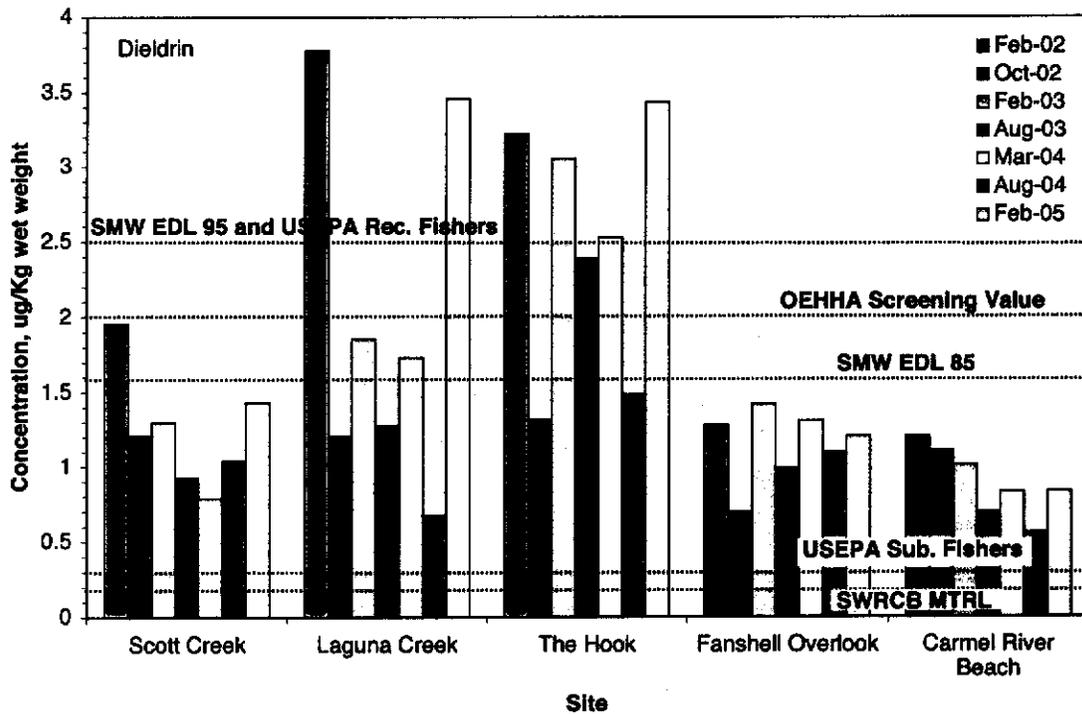


Figure 1. Comparison of Dieldrin concentrations in mussels and various screening levels. The State Water Resources Control Board has published Maximum Tissue Residue Levels (MTRLs) that were developed from water quality objectives in the 1997 California Ocean Plan and bioconcentration factors recommended by the U.S. Environmental Protection Agency. These MTRLs are used as alert levels or guidelines indicating water bodies with potential human health concerns and are an assessment tool and not compliance or enforcement criteria. The State Mussel Watch has ranked tissue concentrations measured over a 20-year period and designated concentrations corresponding to elevated data levels (EDL) for the 85th and 95th percentiles of all measurements. The EDL 85 indicates a concentration that is markedly elevated from the median of all measurements and the EDL 95 indicates a concentration that is highly elevated from the median of all measurements. The USEPA has set screening values for fish or shellfish taken by both recreational and subsistence fishers. These screening values are based upon the toxicity of different POPs and assume an average fisher body weight of 70 kg with consumption of 17.5 g/day by recreational fishers and 142.4 g/day by subsistence fishers. The California Office of Environmental Health Hazard Assessment has determined screening values using the same methods as used by USEPA, except that they assumed a consumption rate of 21 g/day of fish or shellfish.

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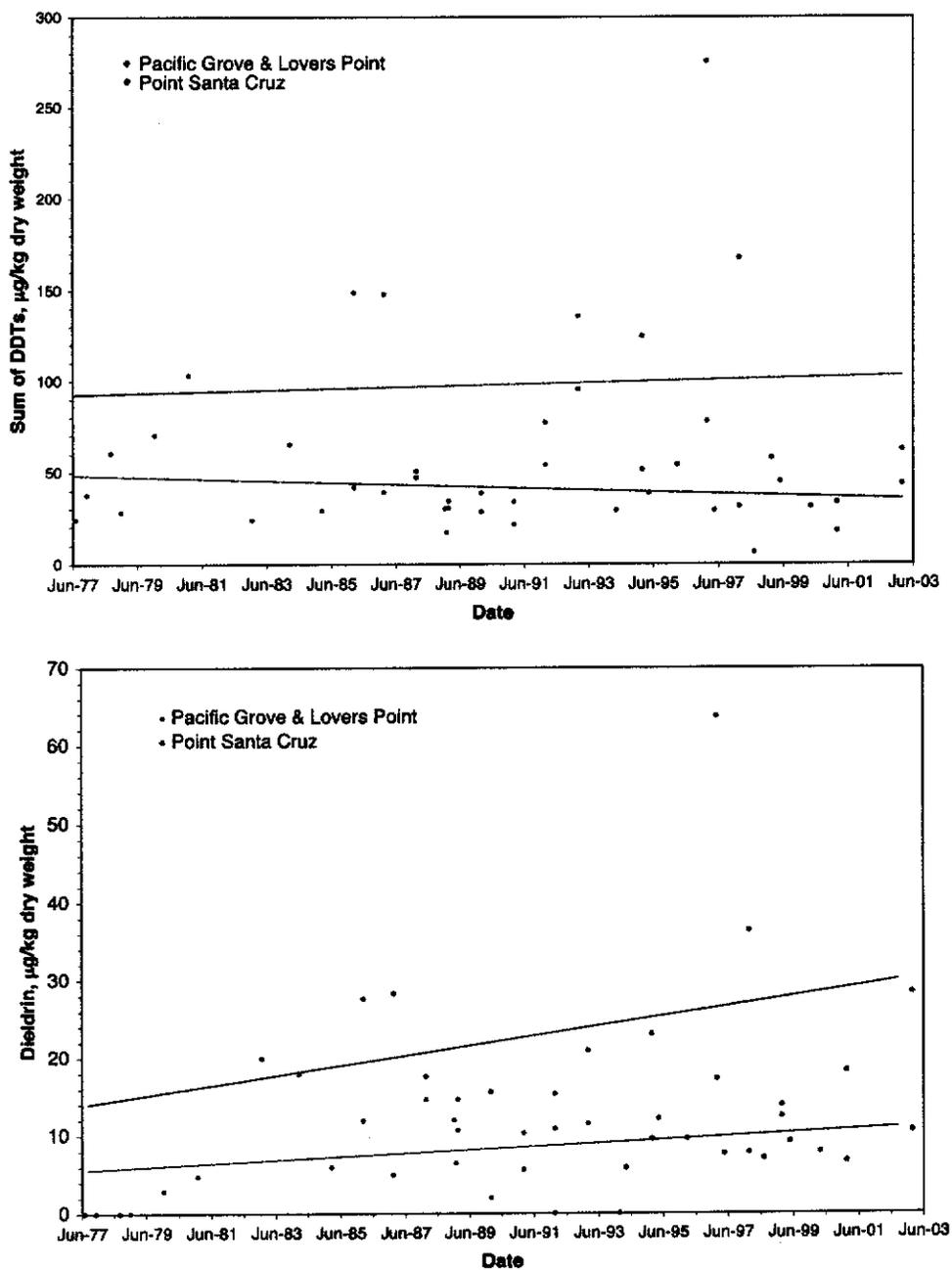


Figure 2. Long-term trends in DDTs and dieldrin at Pacific Grove (State Mussel Watch data) & Lovers Point (National Status and Trends data) and Point Santa Cruz (National Status and Trends data). Slightly downward and upward trends are not significant.

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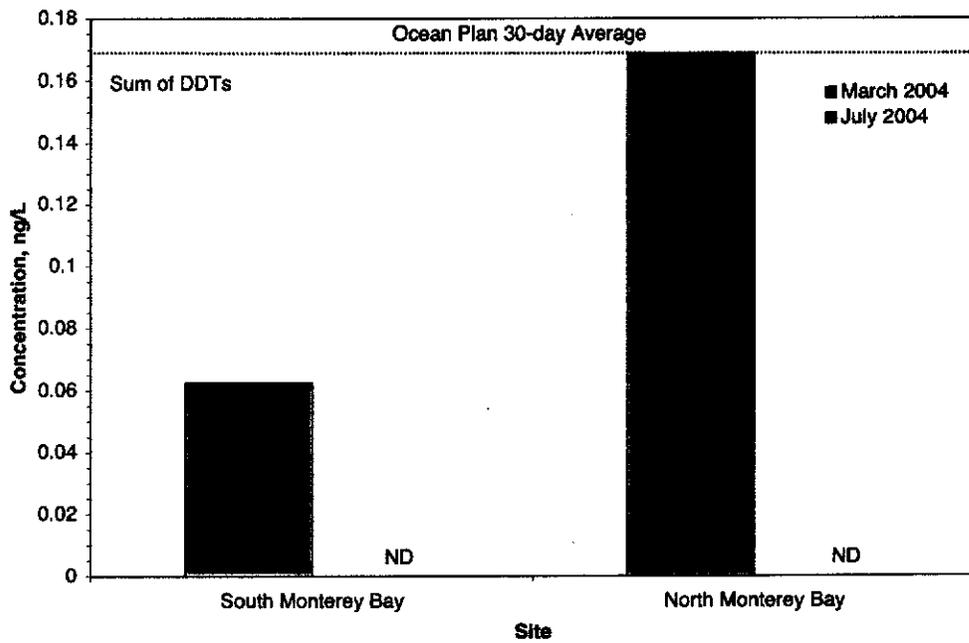
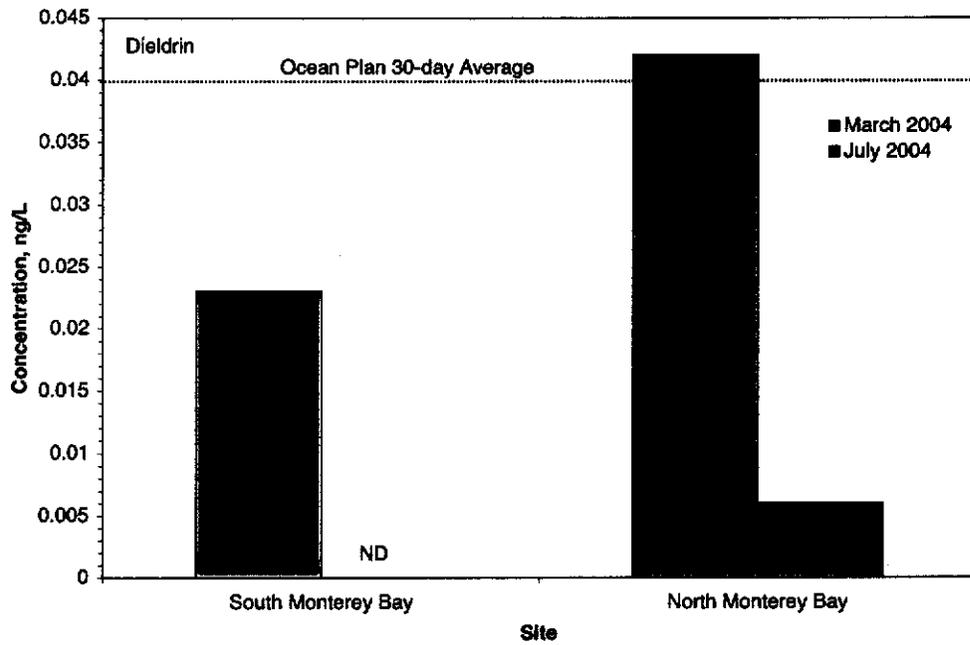


Figure 3. Comparison of 30-day composite dieldrin and DDT concentrations in water from two sites 4-5 miles from shore in Monterey Bay with the Ocean Plan Table B water quality objectives.