

Poster Number

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Topic	Risk assessment: Problem definition and conceptual model
Title	Transitional Waters Sediment Contamination – Assessment and Management
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Keywords: Sediment, transitional waters, integrative risk assessments, ecosystem services

Summary: Sediment contamination remains a global problem, particularly in transitional waters such as estuaries (fjords, river mouths, tidal creeks, the Arctic Ocean), coastal lagoons, fjords, and rias, all of which are the recipients of chemicals from multiple near- and far-field sources. Although transitional waters are highly productive ecosystems, approaches for assessing and managing sediment contamination are not as well developed as in marine and fresh waters. The following assessment techniques cannot be used similarly in transitional waters as they are used in fresh and marine waters: chemistry; toxicity tests; biological surveys; and, biomarkers of exposure and effect. Their specific use in transitional waters is outlined. Integrative risk assessments and management actions based on these and other techniques need to focus on ecosystem services.