

RC Futures Workshop Nov 10

Coastal-SIG Priorities

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Top 3 Priorities

WATER QUALITY (saline/coastal/marine)

- Coastal waters highly valued – WQ a critical factor
- Contamination of coastal WQ a national issue
- RC's responsible for WQ management
- Limited local (NZ) available guidelines & standards
- Effective management requires robust NZ Marine WQ guidelines/standards
 - ANZECC review of local WQ data underway
 - Tool proposal - Coastal WQ index (mont, report, etc)
- ✓ RC's use outcomes in policies, plans, consents, monitoring to effectively manage marine WQ (use/value)

Top 3 Priorities

CUMULATIVE EFFECTS (estuarine/ coastal)

- Dominant risks to important coastal ecosystem uses/values from cumulative rather than individual stressor effects.
- RC's responsible for coastal management
 - Poorly understood (sub-lethal, synergistic, antagonistic, assimilative capacity, resilience, indicators, etc)
 - Effective management requires improved understanding
 - FRST projects; landward source, assimilative capacity
 - Tool Proposal; cumulative effects risk assessment
- ✓ RC's effectively manage stressor sources for coastal outcomes

Top 3 Priorities

NUTRIENT transport and coastal effects

- Significant risks to important coastal ecosystem uses/values from nutrient stressor effects.
- Poorly understood (transport mechanisms, ecosystem effects, assimilative capacity, resilience, indicators, etc)
- RC's responsible for coastal management
- Effective management requires improved understanding
- ✓ RC's effectively manage stressor sources for coastal outcomes

Other Priorities

- Coastal ecosystem biological value
- Climate change effects
- Combined cultural and western science indicators, monitoring, value identification
- Large river plume effects

Linkages

- **Air**
 - Multi-pollutant management (research 5)
 - Climate change (Guidance 4)
 - Level of science to underpin plan rules (Guidance 5)
- **Groundwater**
 - WQ targets, decision support for source control (2,d)
- **Waste & Contaminated Land**
 - Communicating & info sharing
- **Land Monitoring**
 - Valuing environmental services (soil)
 - Land use impacts on WQ
 - Erosion & sedimentation
- **River Managers**
 - River sediment transport
 - Climate change & river sediment transport
 - Land use change effects on runoff, river flow & sediment transport
 - Sea level rise impacts on coastal river-mouth systems

Linkages

- **Hazards**
 - LiDar coastal survey data
 - Seiching hazard on enclosed coastal waterways
 - Hazard info acquisition, storage, access
- **Policy**
 - Hazards (coastal risk management)
 - Policy effectiveness
 - Cumulative effects and valuing ecosystem services