

Marine Vital Signs of Southeast Alaska National Parks

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National Park Service's Southeast Alaska Network



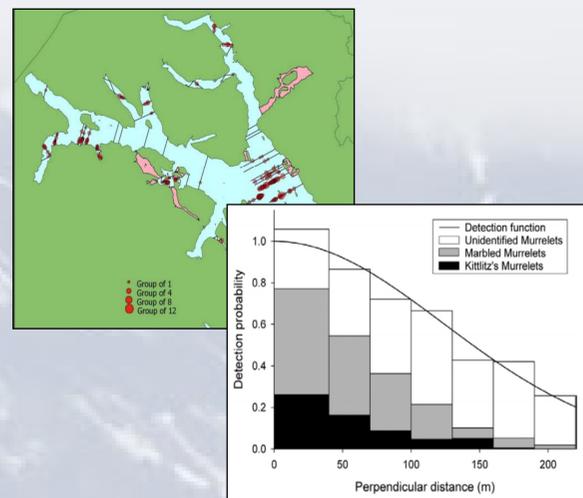
Track annual abundance of Kittlitz's murrelets



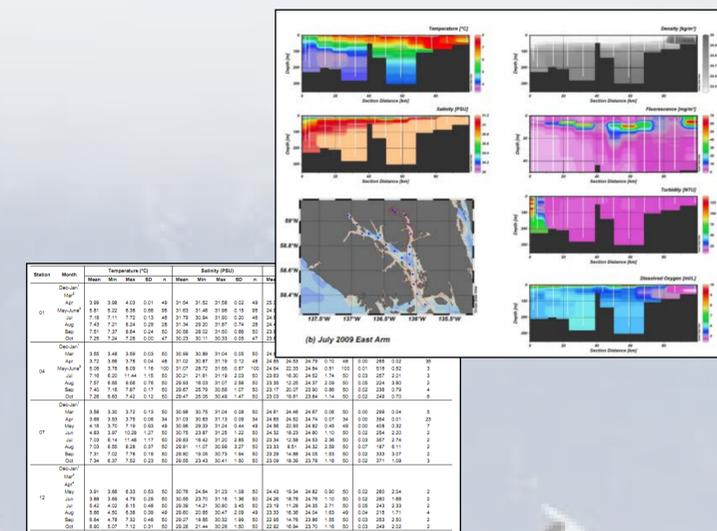
Assess contaminants in bay mussels



Observe oceanographic trends in Glacier Bay



Sample	Park	Site Description	As	Cd	Hg	TBT
1801704	GLBA	Lituya Bay	0.52	0.39	0.0057	NA
1801705	SITK	Visitor's Center	0.75	0.63	0.0073	<LOQ
1801706	SITK	Indian R	0.79	0.70	0.0068	<LOQ
1801707	SITK	Crescent Harbor*	1.00	0.33	0.0210	52.46
1801708	GLBA	Berg Bay	0.51	0.37	0.0075	<LOQ
200901	GLBA	E Russell Rocks	0.26	0.15	0.0025	<LOQ
200902	GLBA	W Hazelton Camp	0.52	0.18	0.0022	<LOQ
200903	GLBA	Ripple Cove	0.53	0.26	0.0023	<LOQ
200904	GLBA	Bartlett Cove	1.10	0.75	0.0084	<LOQ
200905	SITK	Visitor's Center	0.53	0.13	0.0068	<LOQ
200906	SITK	Crescent Harbor*	0.39	0.14	0.0031	<LOQ



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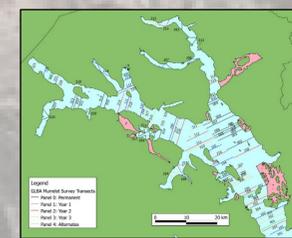
Prioritize and select Vital Signs

SEAN's twelve priority Vital Signs:

Airborne Contaminants	Landform and Landcover
Freshwater Contaminants	Marine Contaminants
Freshwater Water Quality	Marine Predators
Glacial Dynamics	Oceanography
Intertidal Communities	Streamflow
Kittlitz's Murrelets	Weather and Climate

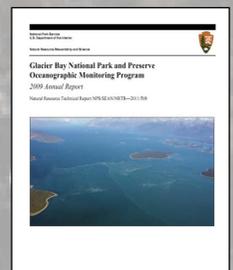
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Develop sampling design



6

Draft protocols, data management, analysis, and reporting procedures



7

Implement program



1

Define goals and objectives



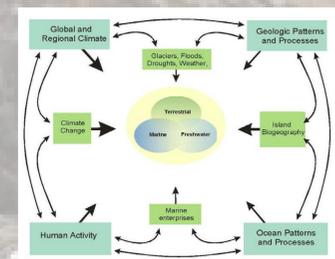
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Summarize existing information



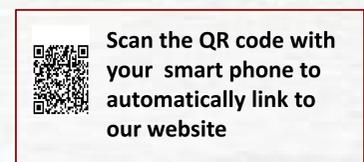
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Develop conceptual model



Vital Signs Monitoring Program Development

Find monitoring protocols, reports, data, and more at the SEAN website:
<http://science.nature.nps.gov/im/units/sean>



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