Cabled Ocean Observatories: Perspectives from NEPTUNE Canada

presented by Scott McLean, ONCCEE Director
Outline

• NEPTUNE & Ocean Networks Canada
• Research Themes
• Early Results
• Education Themes
• Future
NEPTUNE Canada
Enabling Science

Climate & Marine Biota

Ecosystems

Seafloor processes

Coastal Processes

Technology

Earthquake dynamics
Early Results
Thomson et al. 2011
Hydrothermal Vents

COVIS
Rona & Light 2011
Methane Hydrate
Earthquakes
Marine Mammals

Listening to the Deep Ocean Environment

Ocean Networks Canada
Exploration • Innovation • Action
for a Changing Planet
A University of Victoria Initiative

NEPTUNE
Transforming ocean science
Education Foci
Future Directions

• Complete installations & repairs
• Endeavour Ridge expansion
• Core Instruments at all nodes
• New tiltmeter installation
• Focus on full water column
• Oxygen & acidification
• Expanded tsunami array
• Connect at ODP Site 889 to CORKs & future CORKs
• Middle Valley connectivity
Thank you