

Metadata for 3D Seismic Ecological Recovery



Purpose

The 3D Seismic Ecological Recovery line feature class (GEO_3D_ECOLOGICAL_RECOV_LN) is a value-added product derived from the BCER Geophysical Lines (Permitted) dataset; high-resolution satellite imagery was used to assess the condition of 3D seismic lines in a pilot study area to evaluate the current level of natural regeneration on 3D seismic lines. The information is useful in assessing the current condition of 3D seismic lines in the area and may be useful in potentially supporting restoration programs.

Background

The [3D Seismic Ecological Recovery study](#) was designed to assess the condition of 3D seismic lines in a pilot study area to evaluate the current level of natural regeneration on 3D seismic lines. The study looked at select lines and evaluated the current ecological condition of the line including canopy cover, shrub cover and alternate use. The information is useful in assessing the current condition of 3D seismic lines in the area.

While similar in nature to the 2D seismic ecological recovery project, there are a few small differences, including a changed to the alternate use classification and a more robust segmentation approach.

The results of this project are from a desktop analysis based on the available imagery datasets. This project is not an assessment of seismic recovery based on local ground-based field assessments. This data product should not be used in a one-to-one comparison with someone standing within a seismic line to assess ecological recovery. It is a landscape level planning tool to begin building more detailed strategies on a project-by-project level. You can find further information on the data limitations in Section 3.3 of [Caslys 2D Seismic Recovery Mapping Summary Report 2023](#).

Data Properties

Attributes / Column Name	Field Alias	Data Type	Data Precision	Comments
OBJECTID	OBJECTID	Object ID		
SHAPE	Shape	Geometry (Line)		
SHAPE_LENGTH	Shape_Length	Double		Line length automatically calculated by database
ALT_USE	Alternate Use	Text	30	Alternate use of the 3D seismic lines are grouped as follows: Agriculture, Cutblock, Forest Fire, Industrial, Infrastructure, Light Trees, No Trees, Not Visible, Pipeline, Recreation, Road, Residential
WIDTH_CLASS	Width Class	Long		Seismic line widths are grouped into the following 3 classes: 3: <3 m 5: 3-7 m 7: >7 m
TREE_CLASS	Tree Cover Class	Long		A numeric code that identifies the spatial distribution of the tree cover 0: no cover 2: rare 5: sporadic-significant 9: continuous

SHRUB_CLASS	Shrub Cover Class	Long		A numeric code that identifies the spatial distribution of the shrub cover 0: no cover 2: rare 5: sporadic-significant 9: continuous
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Renewal Triggers and Service Levels

1. Not Planned

Downstream Applications

Web Application	Map Service
REST SERVICE	https://geoweb-agr.bc-cr.ca/arcgis/rest/services/REFERENCE/GEO_3D_ECOLOGICAL_RECOV_LN

Use Limitations

This data is for representation purposes only and consists of a small portion of the 3D seismic lines in British Columbia. The Regulator provides this data "as is" with the understanding that it is not guaranteed to be accurate, correct or complete and conclusions drawn from such information are the responsibility of the user. It carries no guarantee of any kind, express or implied.

Please review the [BCER Open Data License](#) for complete details.

Contact Information:

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