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**GEOLOGICAL SURVEY OF CANADA
OPEN FILE 7938**

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seismic data holdings (2006–2011)**

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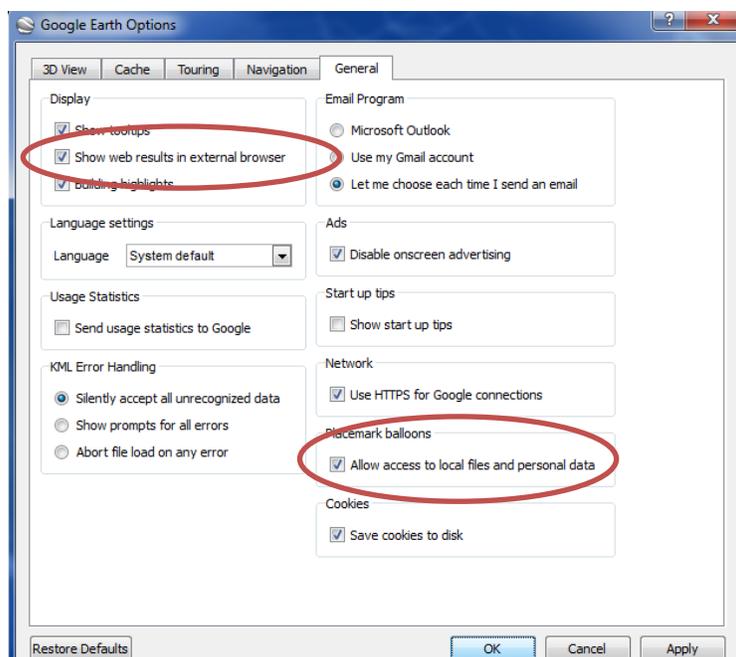
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The Geological Survey of Canada, either directly or by commercial contract, acquired in excess of 26,000 line-km of multi-channel seismic reflection data in support of extended continental shelf mapping in the western Arctic Ocean, the Labrador Sea and the Scotian margin. In the Arctic, these data were acquired jointly with the United States extended continental shelf program. The Arctic data set is companion to velocity data provided in GSC Open File 7661; Atlas of Sonobuoy velocity analyses in Canada Basin, by Chian et al. (available on GEOSCAN; [download](#)).

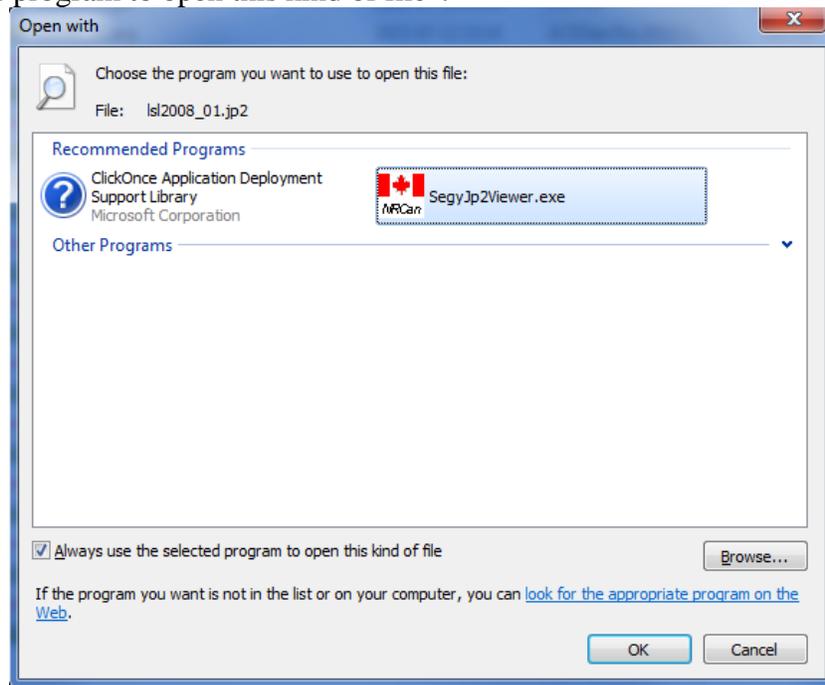
This report provides the Extended Continental Shelf Program seismic data set (2006-2011) as JPEG image files and as JPEG2000 (jp2) compressed image files. The supplied *UNCLOS Seismic Atlas.kmz* file is the track plot of the data for import to Google Earth™ (www.google.com/earth/). With Google Earth installed, clicking on [UNCLOS Seismic Atlas.kmz](#) will launch Google Earth™ and display the seismic track lines. Each line is hyperlinked to the associated seismic profile as a jpg image file and as a jp2000 file. Set option parameters in Google Earth to enable these hyperlinks as follows:

In Google Earth, on the menu, go to “Tools > Options > General” and enable the “Show web results in external browser” and “allow access to local files and personal data”.

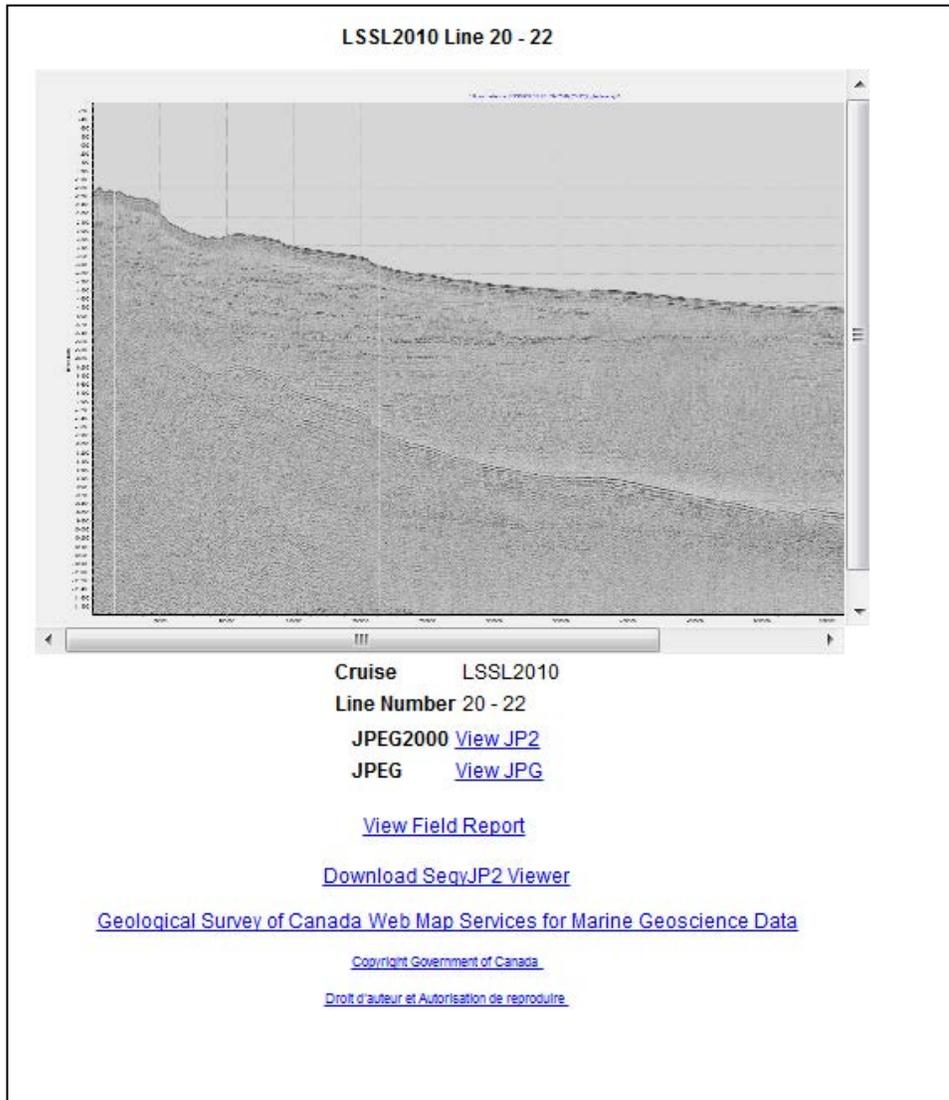


JPEG files will open in the default software associated with this file format or in a Google Earth™ window. The jp2 files are to be used in the supplied *SegyJp2Viewer* software, which is available only for Windows. Install for this software is included in this package in the folder “SegyJp2Viewer_install”. Run the “[setup.exe](#)” application. Instructions for using the *SgyJp2Viewer* software are included in the [SegyJp2 Viewer.htm](#) file. To access these jp2 files through Google Earth™, conduct the following modifications:

In Windows Explorer, associate the jp2 extension with the *SegyJp2Viewer* software. Right click on any *.jp2 file and select “Open with” and “Choose default program”. The following window will appear. Browse to and select *SegyJp2Viewer.exe* and make sure the check box is selected to “Always use the selected program to open this kind of file”.



Left-clicking on a line in Google Earth will open a dialogue bubble and thumbnail of the seismic profile, as shown below. The option is provided to the user to open the JPG or JP2 files by clicking the “View JPG” or “View JP2” hyperlinks. The bubble also has links to the acquisition field report as pdf documents. These reports can also be accessed in the folder “[Field_Reports](#)” provided herein or from [GEOSCAN](#).



The jp2 files can also be loaded directly into the *SegyJp2Viewer* software without Google Earth. Navigation data can be extracted from the kmz file or exported from the jp2 files using the *SegyJp2Viewer* software. The shape file generated by exporting navigation data from the jp2 can be loaded directly into most GIS products. These shapefiles will have hyperlinks to the originating jp2 file. Resizing, scaling and imaging capabilities of *SegyJp2Viewer* make it highly functional for studying seismic data and outputting quality images for reports and publications. In addition, horizons and events can be picked and measurements made directly on the image files.

For access to original seismic SEG-Y data, please contact:

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Selected Relevant Publications

- Chian, D. and Lebedeva-Ivanova, N., 2015. Atlas of Sonobuoy velocity analyses in Canada Basin; Geological Survey of Canada, Open File 7661, 55 pages, doi:10.4095/295857
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