METEOHACK RESOURCE GUIDE

OBJECTIVE

METEOHACK is all about the mash-up of earth science data with other data sets to extract maximum value and insight addressing one of the themes below:

The Earth and Us: Combine Earth Science data and/or meteorological/climate data with sociological and/or economic information to generate new understandings and perspectives on human-environment interactions.

New Audiences: Find new applications for a diverse audience that generally does not care about the Earth science and meteorological data: young audiences, students, non-experts and diverse socio-cultural communities.

Warning! Danger Ahead!: Analyze Earth Science data and weather data to assist in monitoring natural disasters and phenomena associated with health risks, and to assess their impacts on life and property.

Artify the Earth: Interpret our Earth Science data and weather data artistically to create beautiful data visualisations, virtual reality experiences, music, or unique pieces of art.

METEOROLOGICAL SERVICE OF CANADA (MSC) AND CANADIAN CENTRE FOR CLIMATE SERVICES (CCCS) DATA

The Exceptional MSC Open Data Documentation
This is new documentation released exclusively for METEOHACK. Everything you need to know to get started!
https://eccc-msc.github.io/open-data

GeoMet Web Services
Access to an abundance of MSC, CCCS data with data clipping, reproduction, format conversion, etc.
https://www.canada.ca/en/environment-climate-change/services/weather-general-tools-resources/weather-tools-specialized-data/geospatial-web-services.html

https://www.canada.ca/en/environment-climate-change/services/climate-change/canadian-centre-climate-services/display-download.html

MSC Datamart
Access to an abundance of ECCC Open Data governed by ECCC, published in many open formats for your use.
https://dd.meteo.gc.ca/

Open Data Portal:
You can find the Open Data 101 page, the Apps Gallery to get acquainted with open data, and some application programming interfaces. As well as some resources
https://open.canada.ca/en

https://open.canada.ca/en/maps/open-data-canada

DATA TOOLS

Knime
With more than 1000 modules, hundreds of ready-to-run examples, a comprehensive range of integrated tools, and the widest choice of advanced algorithms available, KNIME Analytics Platform is the perfect toolbox for any data scientist.
https://www.knime.com/

OpenRefine
OpenRefine (formerly Google Refine) is a powerful tool for working with messy data: cleaning it, transforming it from one format into another, and extending it with web services and external data. OpenRefine can help you explore large data sets with ease.
http://openrefine.org/

Orange
Orange is open source data visualization and data analysis for novice and expert, and provides interactive workflows with a large toolbox to create interactive workflows to analyse and visualize data. Orange is packed with different visualizations, from scatter plots, bar charts, trees, to dendrograms, networks and heat maps.
https://orange.biolab.si/

Tad Viewer
Tad is a free (MIT Licensed) desktop application for viewing and analyzing tabular data.
https://www.tadviewer.com

CSView
CSView is a lightweight viewer that displays the start of a data file immediately so there's no waiting around for very large files to load. Using very little memory CSView can comfortably open files larger than 4GB. With copy and paste functionality and selectable delimiter support CSView provides a fast, clean and simple way to access very large CSV files.
https://kothar.net/csview

Power BI
Power BI is a business analytics service provided by Microsoft. It provides interactive visualizations with self-service business intelligence capabilities, where end users can create reports and dashboards by themselves.
https://powerbi.microsoft.com/en-us

Datawrapper
Datawrapper is an online data-visualization tool for making interactive charts. Once you upload the data from CSV/PDF/Excel file or paste it directly into the field, Datawrapper will generate a bar, line, map or any other related visualization. Datawrapper graphs can be embedded into any website or CMS with ready-to-use embed codes. So many reporters and news organizations use Datawrapper to embed live charts into their articles. It is very easy to use and produces effective graphics.
https://www.datawrapper.de/

Qlik
Qlik lets you create visualizations, dashboards, and apps that answer your company's most important questions. Now you can see the whole story that lives within your data.
https://www.qlik.com/us/

Tableau Public
Tableau democratizes visualization in an elegantly simple and intuitive tool. It is exceptionally powerful in business because it communicates insights through data visualization. In the analytics process, Tableau's visuals allow you to quickly investigate a hypothesis, sanity check your gut, and just go explore the data before embarking on a treacherous statistical journey.
https://www.tableau.com/

Infogram
Infogram offers over 35 interactive charts and more than 500 maps to help you visualize your data beautifully. Create a variety of charts including column, bar, pie, or word cloud. You can even add a map to your infographic or report to really impress your audience.
https://infogram.com/

DESIGN TOOLS

Google Slides
Create a new presentation and edit with others at the same time
https://www.google.com/slides/about

Prezi
Prezi introduces a better way to present; everything you need to create, present and analyze your best presentations ever
https://prezi.com

Keynote
Keynote for Mac, iOS and iCloud lets your make dazzling presentations. Anyone can collaborate – even on a PC. And it works with Microsoft PowerPoint
https://www.apple.com/keynote

Sketch
The most advanced responsive front-end framework in the world. Sketch gives you the power, flexibility and speed you always wanted in a lightweight and easy-to-use package. Finally you can focus on what you do best: Design.
https://www.sketchapp.com

Webflow
Webflow gives designers and developers the power to design, build, and launch responsive websites visually, while writing clean, semantic code for you

Adobe Photoshop
The world's best imaging and design app. Work across desktop and mobile devices to create and enhance your photographs, web and mobile app designs, 3D artwork, videos, and more
http://www.adobe.com/ca/products/photoshop

Adobe Illustrator
The industry-standard vector graphics app that lets you create logos, icons, drawings, typography, and complex illustrations for any medium
http://www.adobe.com/ca/products/illustrator.html

Gimp
A cross-platform image editor available for NGU/Linux, OS X, Windows and more operating systems. It is free software; you can change its source code and distribute your changes
http://www.gimp.org

Pixlr
Make every moment beautiful with our family of photo editing apps. Work in layers, replace colour, transform objects, and more- all from your browser
https://pixlr.com

FREE ASSETS

Pexels
Free stock photos to use anywhere, for any personal and commercial purpose
https://www.pexels.com

Pixabay
Discover over 1.3 million images and videos shared by our generous community
https://pixabay.com

Unsplash
Beautiful, free photos. Gifted by the world's most generous community of photographers
https://unsplash.com

freepik
Free vectors for personal and commercial use. Download in .AI and .EPS format
https://www.freepik.com/

VectorStock
Free stock photos to use anywhere, for any personal and commercial purpose.
https://www.vectorstock.com/free-vectors

Shutterstock
Great stories start here. Discover over 125 million royalty-free images, video clips and music tracks
https://www.shutterstock.com

Flaticon
The largest database of free icons available in PNG, SVG, EPS, PSD and BASE 64 formats.
https://www.flaticon.com

Google Fonts
Make the web more beautiful, fast and open through great typography. Browse and adopt different font styles of your choosing
https://fonts.google.com

Toptal:Subtle Patterns
Free textures for your next web project, brought to you by Topal
http://subtlepatterns.com

The Noun Project
Icons for everything. Over a million curated icons, created by a global community
http://thenounproject.com

Font Squirrel
Font Squirrel scours the internet for high quality, legitimately free fonts. Download thousands of completely legal, high quality, free fonts
http://www.fontsquirrel.com

Lorem Ipsum Generator
A placeholder text commonly used in the graphic, print and publishing industries for previewing layouts and visual mockups
https://loremipsumgenerator.com