

# CREATIVE COMMONS FOR OPEN CLIMATE DATA



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# FACILITATING BETTER SHARING OF CLIMATE RESEARCH AND DATA

Supporting better data licensing, metadata, and database user-interface practices, so more people everywhere can find solutions to the climate crisis.

تعزيز التواصل بشكل أفضل فيما يتعلق بأبحاث وبيانات المناخ  
دعم أفضل الممارسات لترخيص البيانات والبيانات الوصفية وواجهات مستخدم قاعدة البيانات  
حتى يتمكن عدد أكبر من الأشخاص حول العالم من إيجاد حلول لأزمة المناخ.

## **Promouvoir une meilleure communication de la recherche et des données climatiques.**

Soutenez les meilleures pratiques en matière de licences de données, de métadonnées et d'interfaces utilisateur de bases de données afin qu'un plus grand nombre de personnes dans le monde puissent trouver des solutions à la crise climatique.

## **促进更好地交流气候研究和数据**

支持数据许可、元数据和数据库用户界面的最佳实践，以便世界各地更多的人能够找到应对气候危机的解决方案。

## **FACILITAR UN MEJOR INTERCAMBIO DE INVESTIGACIONES Y DATOS SOBRE EL CLIMA**

Apoyar mejores prácticas de licencias de datos, metadatos e interfaz de usuario de bases de datos, para que más personas en todas partes puedan encontrar soluciones a la crisis climática.



# URGENCY OF OPEN CLIMATE DATA

- **Immediate Global Impact**

- Climate change affects ecosystems, weather patterns, and sea levels. Immediate access to data is crucial for understanding and mitigating these impacts.

- **Informed Policy and Action**

- Policymakers need accurate data to make informed decisions quickly, develop effective climate policies, and implement action plans.

- **Disaster Preparedness**

- Open data improves the ability to predict, prepare for, and respond to extreme weather events, potentially saving lives and reducing economic losses.



# IMPORTANCE OF OPEN CLIMATE DATA

- **Empowers Research and Innovation**
  - Access to comprehensive data is crucial for validating climate models and developing innovative solutions to mitigate and adapt to climate change.
- **Informs Policy and Public Awareness**
  - Policymakers rely on accurate data to create effective climate strategies. Open data also educates the public, fostering a culture of environmental stewardship.
- **Enhances Global Collaboration**
  - Open data enables countries and organizations to share insights and strategies, ensuring a coordinated global response to climate challenges.



# BENEFICIARIES OF OPEN CLIMATE DATA

- **Public and NGOs**

- Open data allows individuals and non-governmental organizations to understand climate impacts, advocate for change, and hold authorities accountable.

- **Private Sector and Innovators**

- Businesses can leverage data to create climate-resilient products and services, while entrepreneurs can drive innovation in sustainability.

- **Local and Global Decision-Makers**

- Local governments can tailor climate strategies to their regions, and global entities can coordinate efforts to address climate change effectively.



# FOUR CONDITIONS



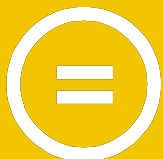
**Attribution (BY):** Credit must be given to you, the creator.



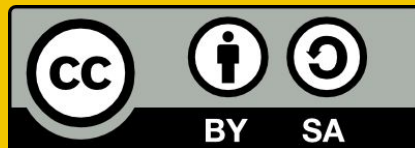
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**NonCommercial (NC):** Only noncommercial use of your work is permitted, not primarily intended for monetary compensation.



**NoDerivatives (ND):** No derivatives or adaptations of your work are permitted.



# CREATIVE COMMONS LICENSE LAYERS



# CONSULTED INSTITUTIONS



WORLD  
METEOROLOGICAL  
ORGANIZATION



**Met Office**



**NOAA**



**W3C**<sup>®</sup>



WORLD  
RESOURCES  
INSTITUTE







**Recommended  
Licensing and Legal  
Terms** that  
maximize free and  
unrestricted sharing



**Recommended  
Metadata Values**  
that center licensing,  
attribution, and  
provenance



# CC RECOMMENDED LEGAL TERMS

## Option A: CC0 + Attribution Request

***“This work is dedicated to the public domain, marked by [CC0 1.0](#). Attribution is requested.”***

Recommended for: Organizations developing new data policies; Those willing to share their data freely to maximally reduce the friction in use.

What it is: CC0 is not a license; It dedicates climate data to the global public domain. Attribution requests are added by default even though they are not legally required.

Benefits: Enables data distribution, remixing, and adaptation without legal restrictions; Encourages professional attribution; Eliminates legal complexities, releasing any burden on users.

Considerations: Address sensitive data proactively before sharing; Manage name trademarks if used.



# CC RECOMMENDED LEGAL TERMS

## Option B: CC BY 4.0

*“This work is licensed under [CC BY 4.0](#).”*

Recommended for: Producers and publishers that want to share and still own their copyrightable data, where allowed.

What it is: CC BY 4.0 is a highly permissive license that allows unrestricted reuse as long as proper attribution is given.

Benefits: Retains data ownership in permitting jurisdictions; Offers a legal mechanism for enforcing attribution and proper data use; Could provide a way to track data use via attributions.

Considerations: Sharing can become complex when users want to merge with other licensed data; May not apply in all jurisdictions or on non-copyrightable material.



# ATTRIBUTIONS: USE TASL

A complete, formal attribution should include:

- Title
- Author or Publisher
- Source Link
- License or Legal Terms

*E.g., “Suggested Attribution: [Creative Commons for Open Climate Data](#) by Taylor Campbell.  
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# CC BY 4.0 LANGUAGES AVAILABLE

[Arabic - العربية](#)

[Bahasa Indonesia](#)

[Basque - Euskara](#)

[Chinese - 中文](#)

[Croatian - Hrvatski](#)

[Czech - Český](#)

[Danish - Dansk](#)

[Dutch - Nederlandse](#)

[Finnish - Suomen](#)

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[Latvian - Latviešu](#)

[Lithuanian - Lietuvių](#)

[Norwegian - Norsk](#)

[Polish - Polski](#)

[Portuguese - Português](#)

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[Spanish - Español](#)

[Swedish - Svenska](#)

[Turkish - Türk](#)

[Ukrainian - Українська](#)



most  
freedom



least  
freedom

1.



2.



3.



4.



5.



6.



7.





**Recommended  
Licensing and Legal  
Terms** that  
maximize free and  
unrestricted sharing



**Recommended  
Metadata Values**  
that center licensing,  
attribution, and  
provenance



# RECOMMENDED METADATA VALUES

<b><u>Metadata Value Label</u></b>	<b><u>Example Value</u></b>	<b><u>Structured data on Commons</u></b>
<b>Title</b>	Korean Land and Water Levels 2003	title (P1476)
<b>Author or Publisher</b>	Korea Meteorological Administration	publisher (P123)
<b>Source Link or Identifier</b>	doi:XXXXXXX/kma.domain	DOI (P356)
<b>License</b>	<a href="http://creativecommons.org/publicdomain/">http://creativecommons.org/publicdomain/</a>	copyright license (P275)
<b>Rights Statement</b>	CC0 + Attribution Request. This work is dedicated to the public domain, marked by CC0, which allows users worldwide to distribute, remix, adapt, and build upon the material in any medium or format, with no legal conditions on reuse. Attribution is requested in a standard format to allow reusers to include this information easily.	
<b>Bibliographical Citation</b>	Korea Meteorological Administration, Korean Land and Water Levels 2003, Issued 2004-01-01, Modified 2004-03-01, doi:XXXXXXX/kma.domain, <a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/publicdomain/zero/1.0/</a> , CC0 + Attribution Request	





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<b>Title</b>	Korean Land and Water Levels 2003
<b>Author or Publisher</b>	Korea Meteorological Administration
<b>Source Link or Identifier</b>	doi:XXXXXXX/kma.domain
<b>License</b>	<a href="http://creativecommons.org/publicdomain/zero/1.0">http://creativecommons.org/publicdomain/zero/1.0</a>
<b>Rights Statement</b>	CC0 + Attribution Request. This work is dedicated to the public domain, marked by CC0, which allows users worldwide to distribute, remix, adapt, and build upon the material in any medium or format, with no legal conditions on reuse. Attribution is requested in a standard format to allow reusers to include this information easily.
<b>Bibliographical Citation</b>	Korea Meteorological Administration, Korean Land and Water Levels 2003, Issued 2004-01-01, Modified 2004-03-01, doi:XXXXXXX/kma.domain, <a href="http://creativecommons.org/publicdomain/zero/1.0">http://creativecommons.org/publicdomain/zero/1.0</a> , CC0 + Attribution Request



# EXAMPLE: 100 YEARS OF OPEN ACCESS METEOROLOGICAL DATA

Environment and Climate Change Canada and Wikimedia Canada

**Data:** namespace for [tabular](#) and [map](#) data

on Wikimedia Commons

[ECCC Project, 100 Years of Open Access Meteorological Data](#)



Source: Weather stations of the Meteorological Service of Canada, [via Wikidata](#). Licensed [CC 0](#).



# Q&A + DISCUSSION

[Read the Report: Recommended Best Practices For Better Sharing Of Climate Data](#)

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