

CREATIVE COMMONS FOR OPEN CLIMATE DATA



This work is licensed [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/). Suggested attribution: “Creative Commons for Open Climate Data by Creative Commons is licensed [CC BY 4.0](https://creativecommons.org/licenses/by/4.0/).”

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.



ShareAlike (SA): Adaptations must be shared under the same terms.



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[®]



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.
Licensed [CC BY 4.0](#).”*



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](#)

[French - Français](#)

[Frisian - Frysk](#)

[German - Deutsche](#)

[Greek - Ελληνική](#)

[Italian - Italiana](#)

[Japanese - 日本語](#)

[Korean - 한국어](#)

[Latvian - Latviešu](#)

[Lithuanian - Lietuvių](#)

[Norwegian - Norsk](#)

[Polish - Polski](#)

[Portuguese - Português](#)

[Romanian - Română](#)

[Russian - Русский](#)

[Slovenian - Slovenski](#)

[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

<u>Metadata Value Label</u>	<u>Example Value</u>	<u>Structured data on Commons</u>
Title	Korean Land and Water Levels 2003	title (P1476)
Author or Publisher	Korea Meteorological Administration	publisher (P123)
Source Link or Identifier	doi:XXXXXXX/kma.domain	DOI (P356)
License	http://creativecommons.org/publicdomain/	copyright license (P275)
Rights Statement	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.	
Bibliographical Citation	Korea Meteorological Administration, Korean Land and Water Levels 2003, Issued 2004-01-01, Modified 2004-03-01, doi:XXXXXXX/kma.domain, http://creativecommons.org/publicdomain/zero/1.0/ , CC0 + Attribution Request	



RECOMMENDED METADATA VALUES

<u>Metadata Value Label</u>	<u>Example Value</u>
Title	Korean Land and Water Levels 2003
Author or Publisher	Korea Meteorological Administration
Source Link or Identifier	doi:XXXXXXX/kma.domain
License	http://creativecommons.org/publicdomain/zero/1.0
Rights Statement	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.
Bibliographical Citation	Korea Meteorological Administration, Korean Land and Water Levels 2003, Issued 2004-01-01, Modified 2004-03-01, doi:XXXXXXX/kma.domain, http://creativecommons.org/publicdomain/zero/1.0 , 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](#)

[التوصيات متوفرة باللغة العربية](#) | [提供中文版推荐](#) | [Recommandations en français](#) | [Recomendaciones en español](#)

✉: taylor@creativecommons.org ✉: jan@creativecommons.org



