



2025 Dataset Catalog

Updated 2025-09-15

INTRODUCTION

The Philippine Junior Data Science Challenge (PJDSC) 2025 is all about empowering bright minds like yours to tackle real-world issues. This year, we're diving deep into **Atmospheric Resilience** and we're super excited to see what you'll create!

As you embark on this challenge, you'll get your hands on some datasets you'll use to draft your initial concept proposals and develop your amazing projects. They are one of your tools to understand intense tropical cyclones, unpredictable monsoon rains, and those rising urban temperatures.

Your insights from the data are the key to your success. They're what will help us uncover sustainable solutions, sharpen forecasting, boost adaptation efforts, and ultimately build stronger, more resilient Filipino communities together. While these datasets are a starting point, **feel free to use additional dataset beyond what's provided here.**

01

Project CCHAIN Datasets

The Project Climate Change, Health, and Artificial Intelligence (Project CCHAIN) dataset is a validated, open-sourced linked dataset containing 20 years (2003-2022) of climate, environmental, socioeconomic, and health dimensions at the barangay (village) level across 12 Philippine cities (Dagupan, Palayan, Navotas, Mandaluyong, Muntinlupa, Legazpi, Iloilo, Mandaue, Tacloban, Zamboanga, Cagayan de Oro, Davao).

Source: Project CCHAIN. (2024, June 25). Kaggle.
<https://www.kaggle.com/datasets/thinkdatasci/project-cchain/>

Links

REQUEST DATASET HERE

PAGASA Climate Information Map (CliMap)

02

CliMap provides high-resolution climate projections and extremes indices for rainfall and temperature across Philippine provinces, based on RCP scenarios. Includes heatwave and temperature anomaly data (e.g., TX90p, WSDI) for assessing exposure to climate extremes.

Source: <https://www.pagasa.dost.gov.ph/climate/climate-change/dynamic-downscaling/climap>

Links

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Instructions:

1. Click province
2. Download CLIRAM/CERAM tables
3. Fill out form
4. Receive Excel/CSV via email

03

Philippine Climate Change Indicators Dashboard (IMF)

Aggregated indicators for climate change impacts and adaptation, including emissions, energy use, and resilience metrics.

Links

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Source: <https://climatedata.imf.org/pages/access-data>

Climate Change Knowledge Portal - Sea Level Rise Projections

04

Coastal exposure data showing projected sea level rise and inundation risks.

Links

Source:

[https://climateknowledgeportal.worldbank.org/country/
philippines/sea-level-historical](https://climateknowledgeportal.worldbank.org/country/philippines/sea-level-historical)

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Philippine Tropical Cyclone Tracks (GeoJSON)

05

Historical tracks of tropical cyclones entering the Philippine Area of Responsibility, compiled from PAGASA and humanitarian sources.

Source:

PAGASA Annual Tropical Cyclone Tracks
<https://www.pagasa.dost.gov.ph/information/annual-cyclone-track>

Philippine Disaster Resilience Foundation (PDRF)
<https://www.pdrf.org/>
<https://data.humdata.org/organization/c9acf432-a02a-4342-ba62-d22acca0af97>

Links

2024 Tropical Cyclone Tracks

DATASET 1

Tropical Cyclone Carina (Gaemi)
Private Sector Response Efforts (July 2024)

DATASET 2

Tropical Cyclone Kristine (Trami)
Private Sector Response Efforts (October 2024)

DATASET 3

Tropical Cyclone Nika, Ofel, and Pepito Private Sector Response Efforts (November 2024)

DATASET 4

06

LiPAD Flood Hazard Maps (Phil-LiDAR Program)

High-resolution flood hazard maps generated using LiDAR technology, covering major river basins and urban areas in the Philippines.

Source: <https://lipad.dream.upd.edu.ph/>

Links

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Open Hazards PH Repository

07

GitHub archive of publicly available hazard datasets including flood, landslide, storm surge, and typhoon tracks.

Links

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Philippine Major Cities Air Quality Index Data

08

Air Quality Index (AQI) dataset of 138 Major Philippine Cities
Weather Data Available In Open Weather Map, data of 1-hour
intervals extracted from <https://openweathermap.org/>.

Links

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Google Drive of flood, landslide, and storm surge data
from UP Resilience Institute.

Source: <https://noah.up.edu.ph/>

Links

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Berkeley Earth

10

Transparent and open source global warming and air pollution dataset from Berkeley Earth.

Links

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National Centers for Environmental Information

Unified and publicly available recent and historical tropical cyclone data. Developed with all World Meteorological Organization (WMO) Regional Specialized Meteorological Centres, as well as other organizations and individuals from around the world.

Links

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Geofabric

Open data extracted from the OpenStreetMap project,
normally updated every day.

Links

[GET DATASET HERE](#)

National Computational Infrastructure

13

Data from the Himawari series of geostationary weather satellites.

Links

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GainForest

Audio recording of natural ecosystems and 4 CSV tables with structured information on trees, plots, and field measurements.

Source:

https://docs.google.com/document/d/18chMg2y_6EDP7GvJbEzvBcmfYLKicznqjzw33Y91iI

Links

Bioacoustic Data

GOOGLE DRIVE

HUGGINGFACE

Ground Data

GOOGLE DRIVE

HUGGINGFACE