

# Package: roroph (via r-universe)

June 8, 2026

**Title** Philippine Roll-on/Roll-Off (RoRo) Connectivity and Transport Data

**Version** 0.1.1.9999

**Description** Provides the first standardized dataset of the Philippines' Roll-on/Roll-off (RoRo) shipping network, reflecting the 2024-2026 operational state. It digitizes fragmented records from the Maritime Industry Authority (MARINA) and Philippine Ports Authority (PPA) into a unified framework for transport modeling. The package includes 108 bidirectional provincial links across the Western, Central, and Eastern Nautical Highways, complete with GADM-standardized naming, geospatial coordinates, and metrics such as distance, travel time, and vessel frequency. Methodology follows Anselin (1988, ISBN:9024737354) and LeSage and Pace (2009) <doi:10.1201/9781420064254> for spatial weight construction. Data sources include ``MARINA Inventory of RoRo Routes" <<https://marina.gov.ph>> and ``PPA Port Statistics" <[https://www.ppa.com.ph/ppa\\_statistics](https://www.ppa.com.ph/ppa_statistics)>. Designed to support research in economic geography and disaster-response logistics.

**License** MIT + file LICENSE

**URL** <https://github.com/pinasr/roroph>,  
<https://pinasr.r-universe.dev/roroph>

**BugReports** <https://github.com/pinasr/roroph/issues>

**Depends** R (>= 3.5.0)

**Imports** dplyr, ggplot2, sf, vctrs, spdep

**Suggests** knitr, rmarkdown, rnaturalearth, rnaturalearthdata, ggrepel, ggspatial, ArchipelagoEngine

**VignetteBuilder** knitr

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.3

**Language** en-PH

**X-schema.org-keywords** maritime-logistics, connectivity, philippines,  
maritime-logistics, island, roro

**Config/pak/sysreqs** libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libssl-dev libproj-  
dev libsqlite3-dev libudunits2-dev

**Repository** <https://pinasr.r-universe.dev>

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**RemoteUrl** <https://github.com/pinasr/roroph>

**RemoteRef** HEAD

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## Contents

roro_routes . . . . .	2
<b>Index</b>	<b>4</b>

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roro_routes	<i>Philippine RoRo Connectivity Network</i>
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## Description

A comprehensive dataset of the Philippine Strong Republic Nautical Highway (SRNH) and Missionary Routes (2024-2026).

## Usage

roro\_routes

## Format

A data frame with 108 rows and 16 variables:

**from\_prov** Origin province name, GADM-standardized  
**to\_prov** Destination province name, GADM-standardized  
**route\_name** The official name of the ferry connection  
**dist\_nm** Distance in nautical miles  
**avg\_time\_hrs** Average travel time in hours  
**freq\_daily** Average daily frequency of trips (The Weight)  
**pax\_cap** Estimated passenger capacity  
**cargo\_cap** Estimated truck units (Logistical Flow)  
**marina\_code** Official MARINA classification code  
**highway\_type** Western, Central, Eastern, or Missionary

**from\_lat** Origin Latitude  
**from\_lon** Origin Longitude  
**from\_region** Luzon, Visayas, or Mindanao  
**to\_lat** Destination Latitude  
**to\_lon** Destination Longitude  
**to\_region** Destination Region

**Source**

Philippine Ports Authority (PPA) and MARINA (2025).

# Index

\* **datasets**

roro\_routes, [2](#)

roro\_routes, [2](#)