



**Republic of the Philippines**  
**Department of Environment and Natural Resources**  
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**JAN 04 2023**

**DENR ADMINISTRATIVE ORDER**

No. 2023 - 01

**SUBJECT : ESTABLISHMENT OF THE NATIONAL ENVIRONMENT AND NATURAL RESOURCES GEOSPATIAL DATABASE UNDER THE OFFICE OF THE SECRETARY**

Pursuant to Executive Order No. 292 also known as the *Administrative Code of 1987* and Presidential directives to establish a national environment and natural resources geospatial database as a platform for the planning and implementation of integrated strategies of the DENR, the creation of an office on National Environment and Natural Resources Geospatial Database is hereby created.

**Section 1. Basic Policy.**

It is the policy of the state to promote the use of Information and Communication Technology (ICT) for the enhancement of key public services, including promoting sustainable development through technology enabled governance. It is also the policy of the State to undertake exploration, assessment, classification, and inventory of the country's natural resources using ground survey, remote sensing and complementary technologies.

**Section 2. Objectives.**

This Order aims to:

- 2.1 Establish, operate and maintain a national environment and natural resources geospatial database for DENR;
- 2.2 Promote the utilization of satellite remote sensing, machine learning, artificial intelligence and GIS for policy, planning and decision-making; and
- 2.3 Create an office to ensure the implementation of the national environment and natural resources geospatial database.

**Section 3. Scope and Coverage.**

This Order shall establish, operate, and maintain a national environment and natural geospatial database in the Department, integrating and harmonizing data from the bureaus, attached agencies, regional offices, PENROs, and CENROs that will include, among others, information as follows:

- 3.1 Natural resources on land, in air, inland water and sea of the country, including biodiversity, coastal and marine, forest, land, minerals and water;
- 3.2 Environmental conditions of these resources;
- 3.3 Inputs to the natural capital accounting program of the government;
- 3.4 Boundary maps, including political, administrative and environmental as created by pertinent laws and DENR policies;
- 3.5 DENR interventions in the form of approved applications, programs, projects and activities; and
- 3.6 Supporting information needed for a more robust, inclusive and integrated strategies for a science-based, risk- informed, ethical and equitable stewardship of our environments.

## **Section 4. Creation of the Office on the National Environment and Natural Resources Geospatial Database and its Organizational Structure.**

There is hereby created the office on National Environment and Natural Resources Geospatial Database under the Office of the Secretary, as the lead implementing office in the planning and implementation of integrated geospatial strategies of the Department.

The Office on National Environment and Natural Resources Geospatial Database shall be composed of the following units and functions:

### **4.1 Geodatabase Management Unit**

- 4.1.1 Create, plan and design the Geodatabase;
- 4.1.2 Perform database administration and maintenance;
- 4.1.3 Ensure the backup and recovery of the whole database management system;
- 4.1.4 Design, plan, recommend and/or determine resources including IT resources needed for the administration and maintenance of its database;
- 4.1.5 Manage users and permission access to the database;
- 4.1.6 Maintain, monitor and manage performance including the security of the entire database and its IT infrastructure; and
- 4.1.7 Perform other functions as may be directed by the Office of the Secretary.

### **4.2 Mapping Unit**

- 4.2.1 Create geoprocessing models;
- 4.2.2 Create, design, generate maps and web maps;
- 4.2.3 Create and configure GIS web and mobile applications;
- 4.2.4 Perform geospatial analysis;
- 4.2.5 Coordinate with all appropriate offices in the performance of its functions; and
- 4.2.6 Perform other functions as may be directed by the Office of the Secretary.

The office shall have its own operational working area to be assigned by the Secretary. It shall be provided with the necessary equipment and logistical support coming from the Knowledge and Information Systems Service and the Administrative Service.

## **Section 5. Staffing.**

The Secretary shall determine the staffing pattern and designate the necessary officials and personnel that will compose the office.

## **Section 6. Funding.**

Initial funds for the operations of the office shall be taken from the Office of the Secretary and from the approved budgets of related programs based on the submitted Work and Financial Plan (WFP). For 2024 and thereafter, funds for the office shall be taken from the regular budget of the Department, as may be proposed and approved in the General Appropriations Act, and other appropriate sources subject to the existing accounting and auditing rules and regulations.

## **Section 7. Support of Other Offices.**

All offices in the Department, including bureaus, attached agencies and field offices, are hereby directed to provide the necessary support and logistics in the operations of the office. All units performing GIS or remote sensing – related functions, including DENR Control Map, shall serve as the counterpart of the office in their respective offices and are directed to provide support to the office as needed.

## **Section 8. Rules of Engagement.**

The office shall formulate and recommend appropriate rules of engagement that will guide its operations.

## **Section 9. Performance Evaluation and Accomplishments.**

The office shall submit to the Office of the Secretary a Geospatial Data Roadmap for a period of six (6) years which shall contain tangible deliverables and other outputs including timelines that can be objectively evaluated as an indicator of performance. The Program Monitoring and Evaluation Division (PMED) under the Policy and Planning Service shall undertake the periodic review of the performance and accomplishments of the office.

## **Section 10. Separability Clause.**

If any provision of this Order shall be held invalid or unconstitutional, the other portions or provisions hereof which are not affected shall continue in full force and effect.

## **Section 11. Repealing Clause.**

All Orders and other similar issuances inconsistent herewith are hereby revoked, amended, or modified accordingly.

## **Section 12. Effectivity Clause.**

This Order shall take effect fifteen (15) days after its publication in a newspaper of general circulation and upon acknowledgment of the receipt of the copy thereof by the Office of the National Administrative Register (ONAR).

  
MARIA ANTONIA YULO DOYZAGA  
Secretary



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