



# 2022 ANNUAL REPORT

“Building a geospatially empowered Philippines”



# Annual Report 2022

**National Mapping and Resource  
Information Authority**



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# ADMINISTRATOR'S REPORT



**S**trengthening competencies and adopting technological innovations were NAMRIA's foothold for the year 2022. The requirements for an agile workforce with future-proof competencies made up the main focus of the agency as it continues to build a resilient public institution. Improvements in our

capacities were also achieved as we introduced recent technologies on our map-making services, particularly on geospatial information systems (GIS) and remote sensing applications. These initiatives strengthen NAMRIA's position as the country's central mapping agency. Our 2022 Annual Report highlights the milestones and accomplishments of NAMRIA to support its overarching goal of geospatially empowering the nation.

This year, the land cover map of the Philippines was updated and distributed to various stakeholders. It will be very useful for both national and local government units (LGUs), the academia, and other practitioners in development projects and resource management. We implemented the Forestland Evaluation and Mapping Project, which continued to classify the remaining Unclassified Public Forests, for sustainable forest management.

The NAMRIA Open Data Policy (ODP), which the undersigned approved, is seen to widely enhance the exchange of and access to geospatial information (GI) by every Juana and Juan. This access will mean acceleration in the application of GI in aspects that will affect the quality of our lives, the economy, and especially in governance. NAMRIA would want all program planners and implementers to make informed decisions using relevant sources of information, GI most importantly. NAMRIA is paying particular attention towards digitalization through the ODP and the Philippine Integrated Geospatial Information Management policy.

Over the past years, NAMRIA has established and maintained numerous ties and partnerships with international and regional organizations. Our involvement with a number of projects from the United Nations (UN), World Bank (WB), and Asian Development Bank espouses the agency's thrust for global cooperation. In June, NAMRIA joined the Philippine delegation to the 32nd Meeting of the

States Parties to the United Nations (UN) Convention on the Law of the Sea at the UN Headquarters in New York City. At the end of the session, the Philippines was able to secure a seat at the Commission on the Limits of the Continental Shelf (CLCS) for the period 2023-2028.

In 2022, we managed to cover considerable ground with the WB Geospatial Team and the UN Platform for Space-based Information for Disaster Management and Emergency Response, to name a few.

We were also visited in July by a member of the Science, Information and Communications Technology, Broadcasting, and Communications Committee of the Republic of Korea's 21st National Assembly to learn about NAMRIA's capabilities in mapping, surveying, and remote sensing. We are also an active member and contributor to the UN Committee of Experts on Global Geospatial Information Management (GGIM) Working Group on Geospatial Information and Services for Disasters, Regional Committee of the UN-GGIM for Asia and the Pacific, UN Group of Experts on Geographical Names, and the International Hydrographic Organization (IHO).

Locally, we accommodate every office, local government, agency, and institution who reaches out to ask for our help. We are assisting local governments as they prepare/update their Comprehensive Land Use Plan through provision of existing land use maps and capacity building on basic GIS under our Participatory Mapping of Existing Land Use Project. Our commitment to implement innovative programs aiming to strengthen local governance, through the use of geospatial information, is unwavering.

A commemorative stamp was jointly released in April by the Philippine Postal Corporation (PHLPost) and NAMRIA in celebration of the 10th anniversary marking the official recognition of the Extended Continental Shelf (ECS) in the Philippine Rise. We have also maintained strong ties with the National Task Force for the West Philippine Sea, the Build Back Better Task Force, the Executive Committee on Real Property Valuation, and other committees within the Department of Environment and Natural Resources (DENR).

We have continuously invested in technology to implement our learning and development (L&D) activities. With the COVID-19 health and safety protocols still in place, most of our meetings and workshops were held online. This year saw an increasing number of GIS trainings offered by the NAMRIA Geomatics Training Center. Some of these trainings were jointly organized with other government agencies, including the Philippine Public Safety College, Bureau of Soils and Water Management-Department of Agriculture, Region IV-B (MIMAROPA [Mindoro

Occidental, Mindoro Oriental, Marinduque, Romblon, and Palawan))-Department of the Interior and Local Government, Philippine Air Force, Department of Health-MIMAROPA, and Laguna Lake Development Authority. Aside from the standard modules offered in GIS training, participants were also able to apply map-making concepts and principles in their respective fields. This ensures the transferability of our training program to the day-to-day operations of our trainees. Relevant online trainings and webinars on Gender and Development (GAD), Strategic Planning, Disaster Risk Management, and Mental Health and Wellbeing were also organized by the agency. As we implement gender mainstreaming, we were recognized by the Philippine Commission on Women (PCW) as having a Level III GAD Application, this following PCW evaluation using the Gender Mainstreaming Evaluation Framework tool.

Partnerships with academia also make up an important thrust of our L&D program. In July, the Philippine Science High School-CALABARZON (Cavite, Laguna, Batangas, Rizal, and Quezon) Regional Campus, through the Department of Science and Technology, engaged with NAMRIA for the school's Science Immersion Program. The student-interns were given hands-on Basic and Advanced GIS training and applied the same in developing science research skills for future research works.

Our Morale and Welfare Committee also implemented an array of activities for the year 2022. These activities were organized alongside our observance of national events and include targeted programs on health and wellness, including the annual vaccination program and physical exam, virtual fun run and calisthenics, and tree planting, among others. Our public extension activities were managed by our Bayanihang Bayan Desk (BBD). It was a productive year for BBD after implementing its outreach activities, including provision of school supplies to the communities of Barangay 826, Paco, Manila. It also provided assistance to Baclaran Elementary School Central, Parañaque City; Kapitolyo High School, Pasig City; and Makati Science High School, Makati City for their annual Brigada Eskwela activity. We are also elated to announce that the NAMRIA Damayan Fund became operational this year. The Fund provides an immediate source of financial assistance to NAMRIA employees in cases of hospitalization and death.


Our accomplishments in the past year were recognized through a number of accolades and awards we received. NAMRIA continues to be certified to ISO 9001:2015 for our Mapping and Geospatial Information Management processes after successfully hurdling the surveillance audit in August. Our Freedom of Information (FOI) practices were recognized anew. For Fiscal Year 2022, NAMRIA was FOI Champion under the Agencies/Bureaus/

Commissions/Councils Category. Our FOI Officer was again a Best FOI Officer awardee.

NAMRIA will continue to align its initiatives with the identified priority programs of the Philippine Government and strengthen its role as an active institutional partner for the socioeconomic and environmental agenda of Environment Secretary Maria Antonia Yulo Loyzaga and President Ferdinand R. Marcos, Jr. We look forward to another transformative year for NAMRIA as we implement the following programs, activities, and projects for the year 2023: conduct of nationwide hydrographic surveys, nautical charting, and physical oceanographic surveys; provision of assistance in the delineation of the country's maritime zones; continuous implementation of topographic base mapping, including the Unified Mapping Project and the Updating of the Philippine Gazetteer; modernization of the Philippine Geodetic Reference System; comprehensive mapping of environment and natural resources to update and integrate data on forestland, land cover, and coastal resources; participatory land use mapping; strengthening of geospatial information management activities, such as geospatial systems development, geospatial database development and maintenance, geospatial information services, and geospatial information and communication technology; and the implementation of human resource (HR) and organizational development programs such as organizational performance management, competency-based HR system, recruitment and placement system, strategic performance management system, strategic human resource development, morale and welfare, and employee engagement.

Our success as a public institution is also the success of the communities and advocacies that we serve. More than meeting and exceeding our targets and goals, the positive impacts of our work on the Filipino people are what matter most. In the years to come, NAMRIA will be more responsive and adaptable to the frequent and inevitable changes in our society. To achieve this, we will continue to recalibrate and reinvent our processes and procedures to better serve the public. We will go above and beyond our maps and charts and use a geospatial and gendered lens to better understand our purview as the country's official mapping agency.

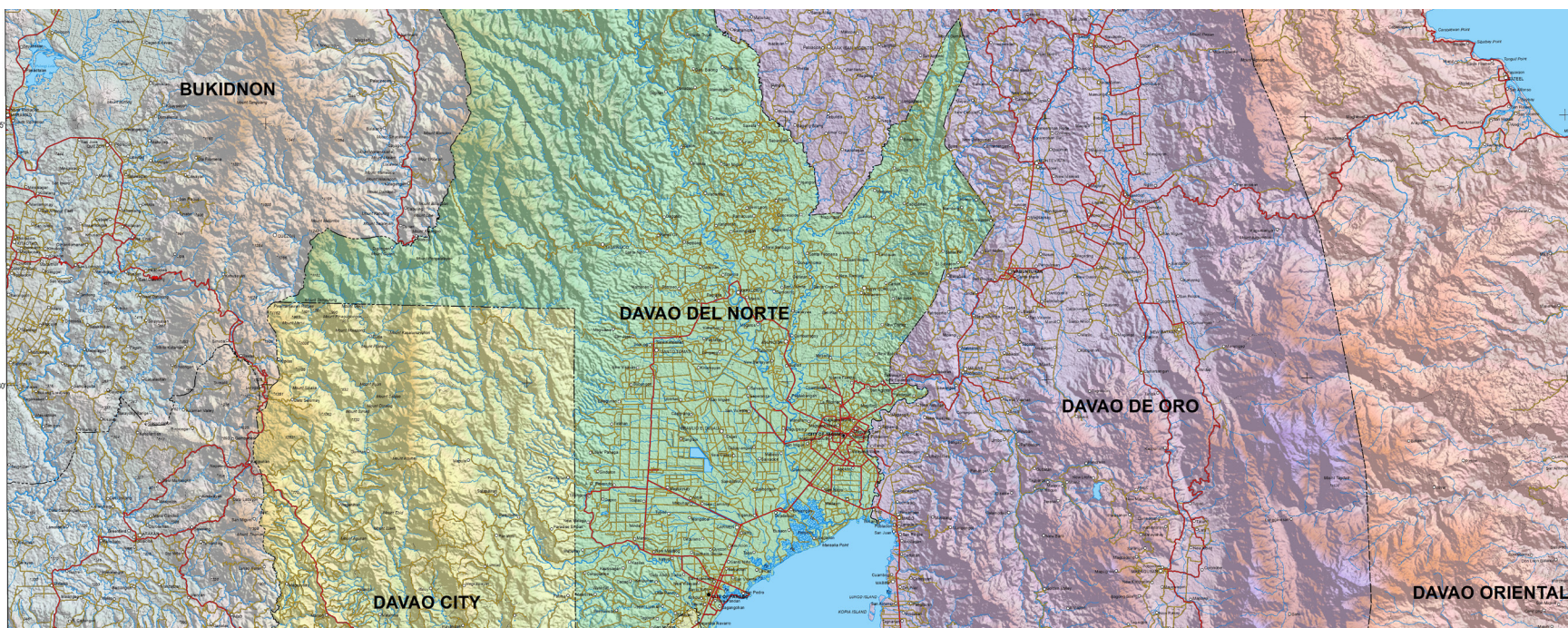
*Padayon, NAMRIA!*



**Usec. PETER N. TIANGCO, PhD, CESO I**  
Administrator



## Topographic Mapping and Geodetic Reference Frame Development and Management



**N**AMRIA produces topographic base maps at various scales, in print or digital format, for use by the national government agencies, LGUs, academia, scientific community, and the private sector. They are used as basic tools in development planning, disaster-risk reduction and management, investment and research activities, among others. They are regularly updated through the use of aerial photographs and satellite imageries, and conduct of field validation activities. Medium- and small-scale topographic maps (1:50,000 scale and 1:250,000 scale) generally cover large areas, while large-scale topographic maps (1:10,000 scale or larger) generally cover smaller areas but show more details. NAMRIA likewise produces administrative maps.

The Philippine Geodetic Network needs to be modernized to align with the International Terrestrial Reference Frame in order to provide the public with geodetic controls that will serve as reference points for all surveying and mapping activities in the country.

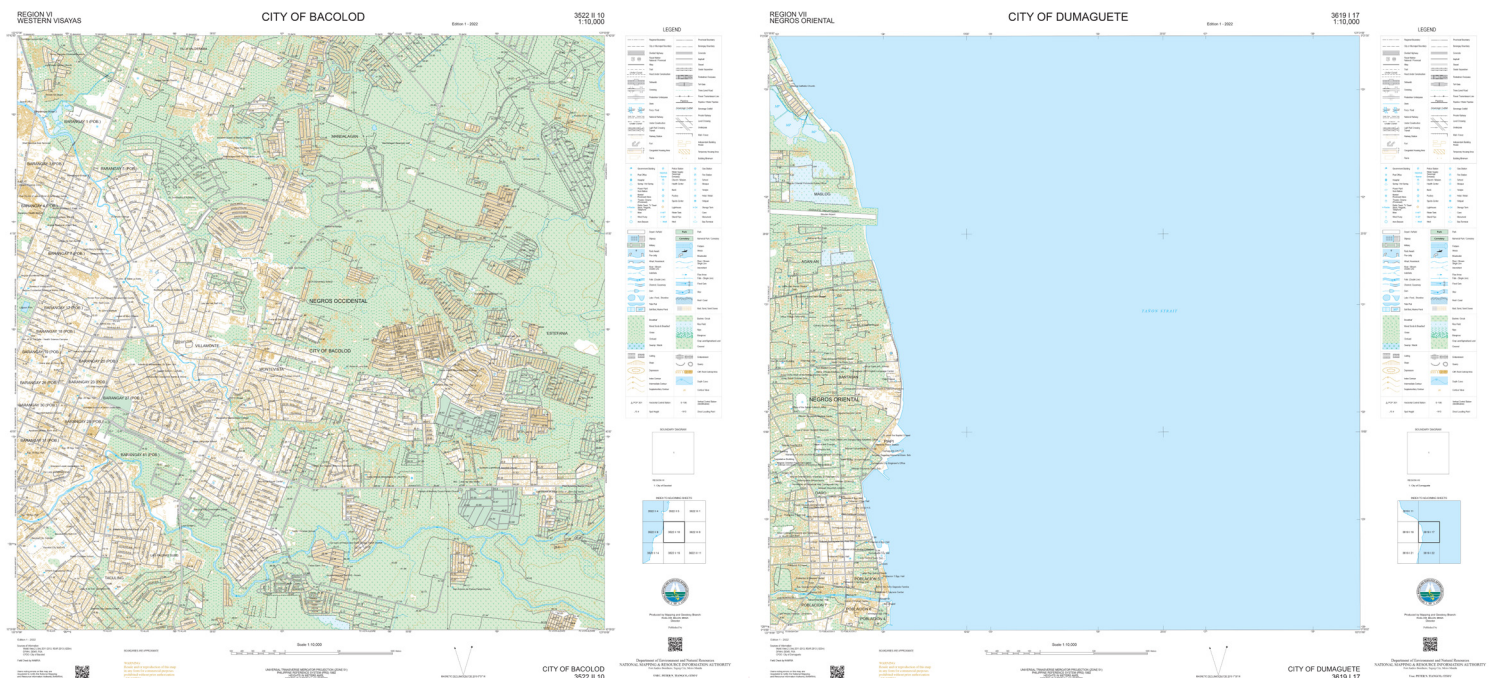




The following were accomplished during the year:

### Large-Scale Mapping (1:10,000 scale)

- ◆ Produced 360 map sheets on a scale of 1:4,000 covering Angeles City, Pampanga; Olongapo City, Subic in Zambales; and Ormoc City, Leyte
- ◆ Enhanced 55 map sheets on a scale of 1:10,000 covering Bacolod, Dumaguete, and General Santos
- ◆ Under the Unified Mapping Project (UMP), completed feature extraction for the production of 1,500 topographic maps on a scale of 1:10,000, covering the provinces of Bohol, Cagayan, Camarines Norte, Camarines Sur, Compostela Valley, Ilocos Norte, Occidental Mindoro, Oriental Mindoro, and Pangasinan; and the production of 12,820 sheets of first-cycle topographic maps on a scale of 1:10,000



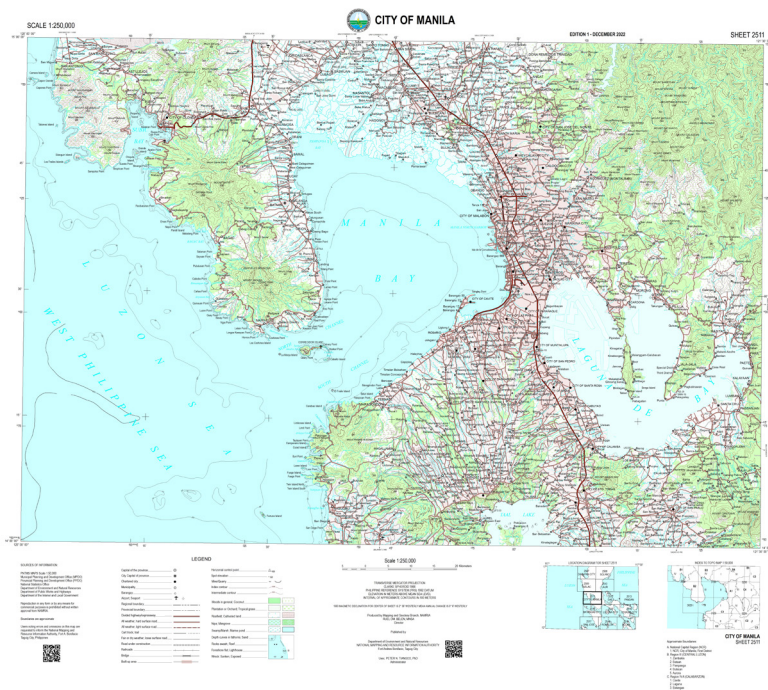
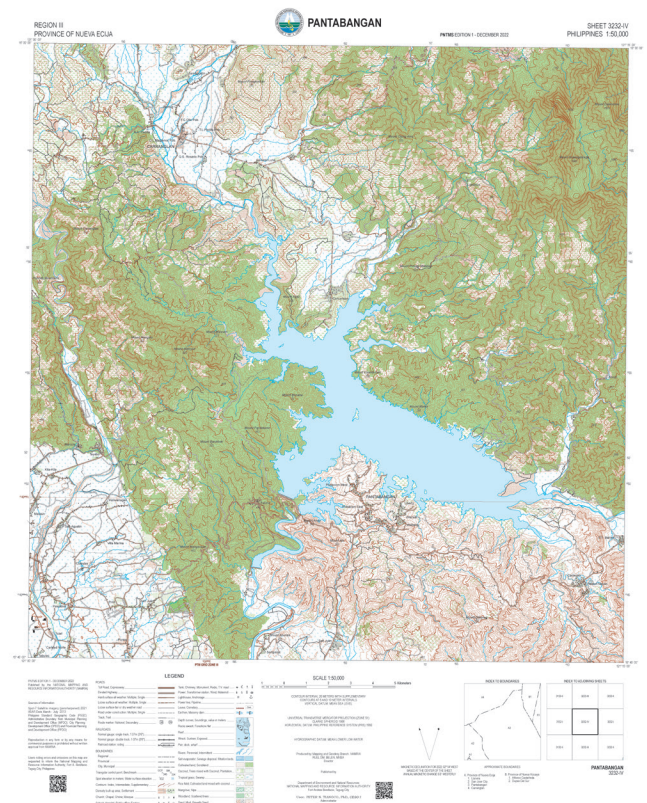
**Enhanced map sheet of the cities of Bacolod (left) and Dumaguete (right) on a scale of 1:10,000**



## Medium-Scale Mapping (1:50,000 scale) and Small-Scale Mapping (1:250,000 scale)

- ◆ For medium-scale mapping, produced 45 map sheets covering Batangas, Cavite, Eastern Visayas, Laguna, Metro Manila, Palawan, and Quezon
- ◆ For small-scale mapping, produced 5 map sheets covering Bogo, Cagayan Sulu Island, City of Manila, City of Tarlac, and Laur

*Medium-scale topographic map of Nasugbu in the Province of Batangas on a scale of 1:50,000*

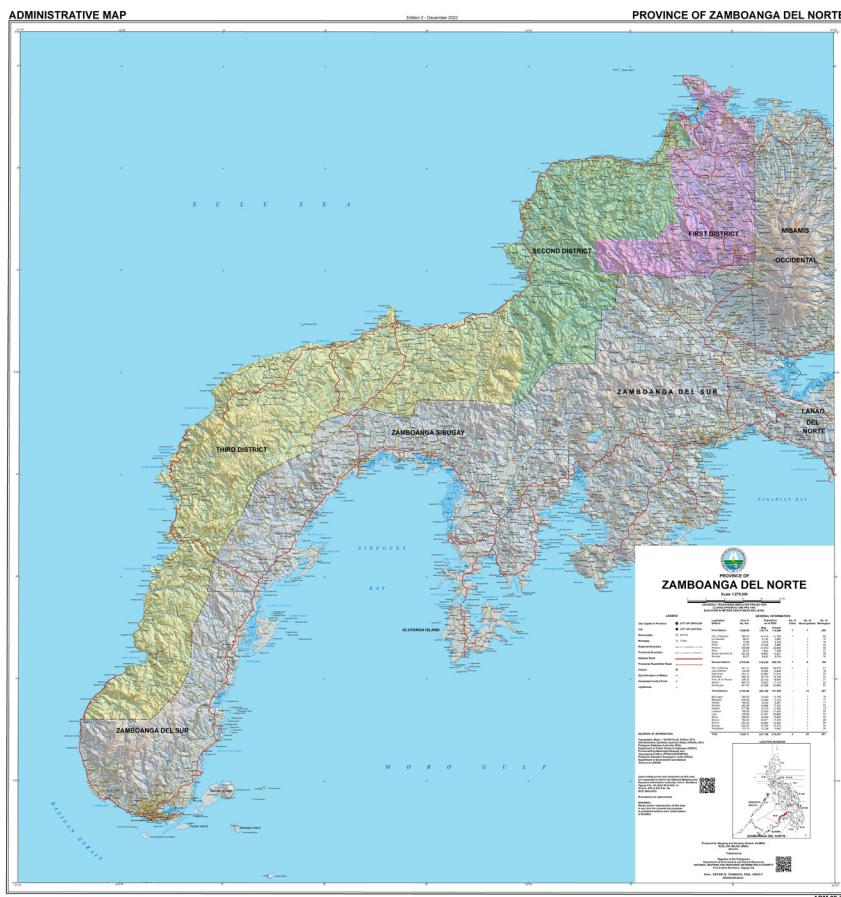


*Small-scale topographic map of the City of Manila on a scale of 1:250,000*

## Administrative/Special Mapping

- ◆ Produced 10 provincial maps covering the provinces of Lanao del Norte, Lanao del Sur, Misamis Occidental, Sorsogon, Surigao del Norte, Surigao del Sur, Sulu, Tawi-Tawi,

Zamboanga del Norte, and Zamboanga del Sur; and 2 regional maps covering Region XI and Region XII



*Administrative map of the Province of Zamboanga del Norte on a scale of 1:275,000*

## Updating of Philippine Gazetteer

- ◆ Updated Geographic Names Database of 10 provinces covering Batanes, Cagayan, Marinduque, Nueva Ecija, Nueva Vizcaya, Occidental Mindoro, Oriental Mindoro, Pangasinan, Romblon, and Tarlac

## Printing of Maps, Charts, and Publications

- ◆ Reproduced/printed 130 sets of topographic/administrative maps and nautical charts



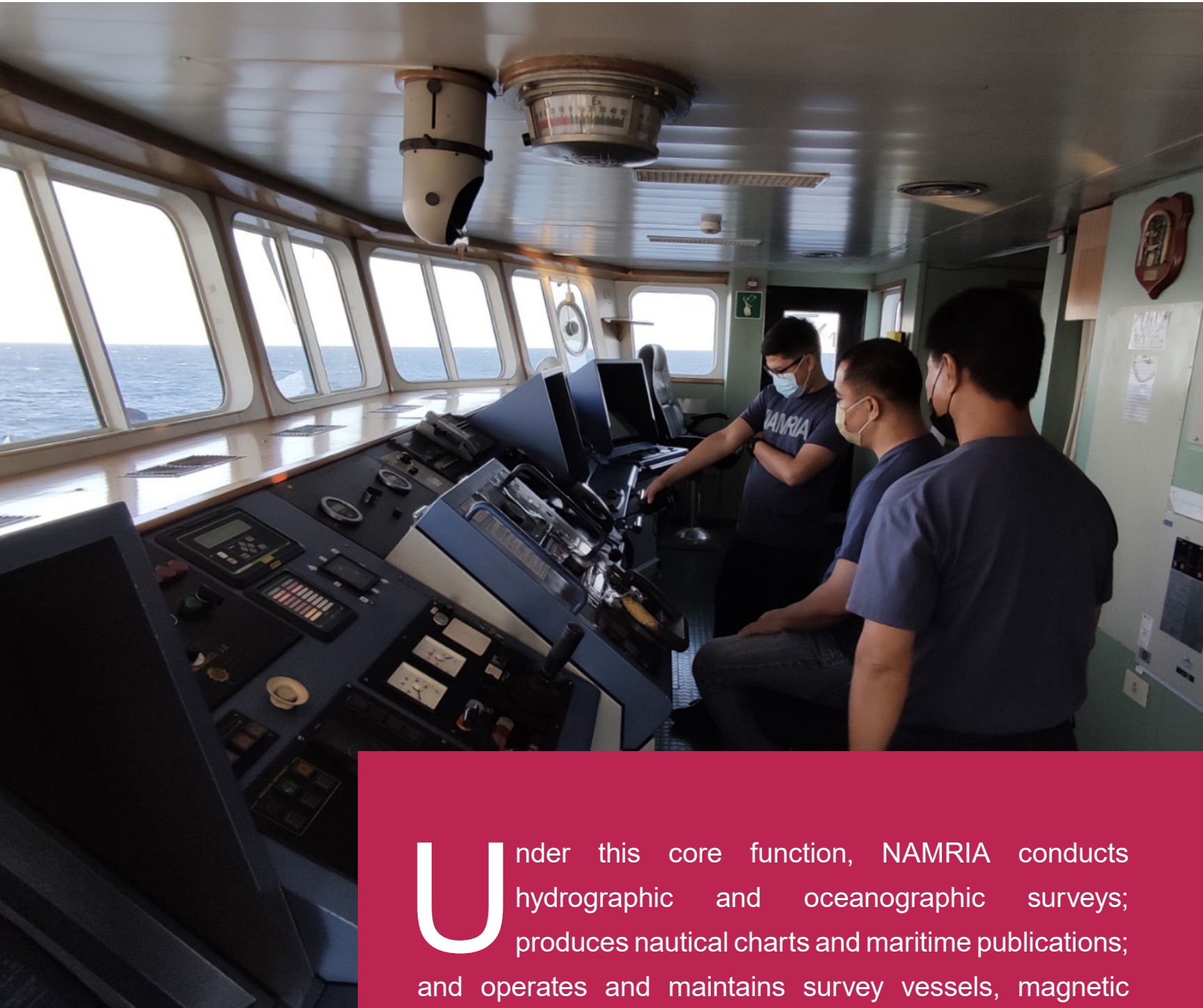
## Modernization of the Philippine Geodetic Reference System (PGRS)

- ◆ Established 3 Active Geodetic Stations (AGS) in Romblon, Romblon; San Jose, Occidental Mindoro; and Sipalay City, Negros Occidental
- ◆ Conducted reconnaissance for the selection of AGS in 6 sites, namely: Claveria, Cagayan; Kabugao, Apayao; Lacub, Abra; Pasuquin, Ilocos Norte; Piat, Cagayan; and Sta. Teresita, Cagayan
- ◆ Releveled 137 kms (148 Benchmarks [BMs]) in Region IV-A; and 600 kms (635 BMs) in Regions X and XIII
- ◆ Conducted 500 gravity observations in Region VI
- ◆ Validated 150 BMs in Regions IV-B (Romblon, Occidental and Oriental Mindoro, and Palawan) and V (Catanduanes and Masbate) for the refinement of the Philippine Geoid Model
- ◆ Updated the AGS locations in the Geodetic Network Information System
- ◆ Updated the geodetic reference datasets in the *Geoportal Philippines* website



***Validation of BMs in Catanduanes for the refinement of the Philippine Geoid Model***

## Hydrography, Oceanography, Charting, and Maritime Boundaries Mapping



**U**nder this core function, NAMRIA conducts hydrographic and oceanographic surveys; produces nautical charts and maritime publications; and operates and maintains survey vessels, magnetic observatory, tide stations, and other related facilities. The data generated ensure the safety of navigation, support climate change mitigation and adaptation, and are used to delineate and delimit the country's maritime zones. They also support the requirements for infrastructure development, environmental management, resource exploration, and scientific research.



The following were accomplished during the year:

### Hydrographic Surveys

- ◆ Conducted hydrographic surveys in the Philippine Archipelagic Waters (AW) covering 348.19 sq kms for the Exclusive Economic Zone (EEZ) in the vicinity of West of Luzon and 1,472.23 sq kms for the Archipelagic and Internal Waters in the Coast of Bataan and Zambales
- ◆ Conducted hydrographic surveys in 2 ports and harbors covering the Port of Masinloc, Zambales; and the Western Coast of Subic Bay
- ◆ Conducted field geomagnetic observations of 20 Magnetic Repeat Stations (MRS) and established 1 MRS in Pag-asa Island, Palawan
- ◆ Acquired 8,472 hourly values of geomagnetic data and 152 absolute magnetic observations
- ◆ Performed preventive and corrective maintenance on 4 survey vessels
- ◆ Addressed 211 hydrographic and geomagnetic data provision requests



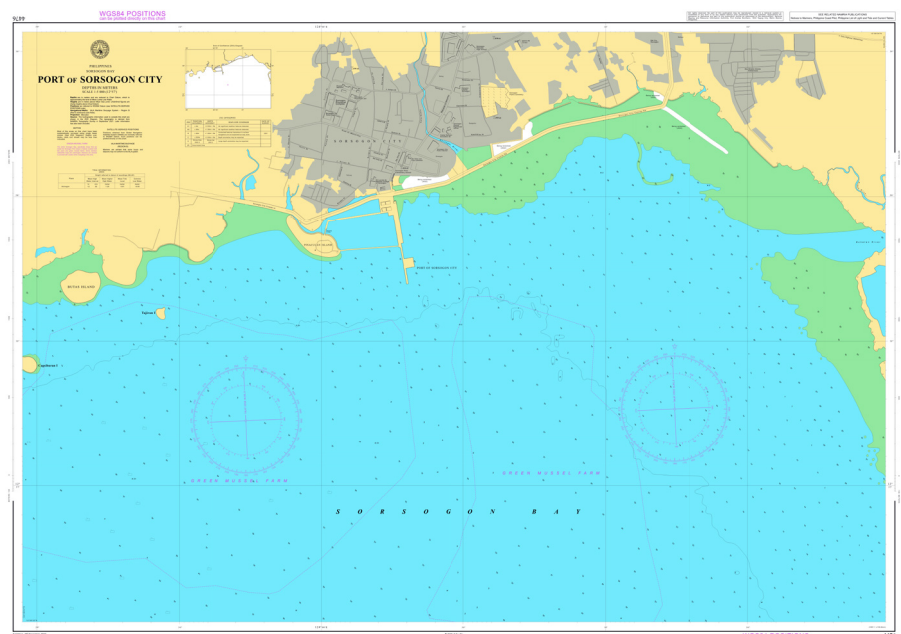
*Tidal leveling for the hydrographic survey of the West Coast of Subic Bay*



## Nautical Charting

- ◆ Compiled and enhanced the following charts:
  - 8 Port and Harbor Charts: Batangas, Cebu Harbor, Corregidor and Caballo Islands, Port of Capinpin, Port of Casiguran, Port of Castilla, Port of Magallanes, and Port of Sorsogon City
  - 2 Approach Charts: Cebu Harbor and Approaches, and Sorsogon Bay
- ◆ Produced the following:
  - 13 Coastal Charts with numbers: 1511, 1512, 1515, 1535, 1537, 1538, 1541, 1542, 1545, 1546, 1551, 1552, and 1559
  - 1 EEZ Chart: Chart number 4723 covering West Palawan Region, including Kalayaan Island Group (KIG)
  - 2 General Sailing Charts: Chart 5009 (covering Hondoy Bay to Coronado Bay) and 5011 (covering Pagkakaisa Banks and Reefs to Banguay Island)
- ◆ Created and updated 10 Electronic Navigational Charts covering from Bold Point to Malanao Point, Casiguran Bay, Casiguran Sound, Corregidor Island and Approaches, from Malanao Island to Filantropia, from Malanut Bay to Bonbon Point, from Malapackun Island to Camungyan Island, Port of Calapan, Port of Lamao, and Recto Bank (KIG Update)
- ◆ Manually corrected 500 printed nautical charts based on feedback from issued *Philippine Notices to Mariners* and other information
- ◆ Performed quality control and approved 30 paper nautical charts to create a master chart
- ◆ Printed 6,000 copies of nautical charts

**Enhanced Port and Harbor chart of the Port of Sorsogon City on a scale of 1:5,000**



## Physical Oceanographic Surveys

- ◆ Maintained 56 tide stations located all over the Philippines
- ◆ Established 3 new tide stations in Bislig, Surigao del Sur; Kalamansig, Sultan Kudarat; and Sta. Monica, Siargao Island
- ◆ Acquired various physical oceanographic data (sea level measurement, tidal data, temperature, density, and salinity) from 48 tide stations
- ◆ Observed 2 wave stations in Balabac, Palawan and Maconacon, Isabela
- ◆ Observed 2 tidal current stations in Balabac, Palawan and Maconacon, Isabela; and re-observed 2 subordinate stations in Bulalacao Port, Oriental Mindoro and Maconacon, Isabela
- ◆ Downloaded/retrieved 100% of tidal datasets
- ◆ Served 100% of client requests for oceanographic information

*Lowering of the Acoustic Doppler Current Profiler near Candaraman Island along the North Balabac Strait with assistance from Balabac DENR Office, Balabac Coast Guard, and a diver from the Philippine Navy*



*Concrete stilling well is lowered by a crane for the Kalamansig Primary Tide Station in Sultan Kudarat*



## Delineation of Maritime Zones and Production of Nautical Publications

- ◆ Published 12 editions of *Philippine Notices to Mariners* (NM) and 100% of marine safety information collected as *Navigational Warnings*, which were e-mailed to subscribers, uploaded to the NAMRIA Web Content Management System, and provided free of charge to the maritime public and foreign hydrographic offices to ensure safety of life at sea and environmental protection
- ◆ Published the 2023 edition of *Philippine List of Lights*
- ◆ Updated manuscripts of 2 *Philippine Coast Pilot* books (8th Edition) with 100% NM data included
- ◆ Published 2022 Cumulative List of Notices to Mariners
- ◆ Provided 103 LGUs, national government agencies, and other stakeholders with technical assistance through the provision of preliminary maps and technical descriptions, training and information sessions, assistance on boundary dispute negotiations, validation of coastal terminal points, and issuance of the certification of final municipal water maps
- ◆ Compiled 20 15-Series Charts with internal waters limits
- ◆ Submitted 34 Undersea Feature Names (UFN) to the IHO General Bathymetric Chart of the Oceans (GEBCO) Sub-Committee on Undersea Feature Names (SCUFN)



**Coast pilot survey activities in the Province of Palawan**





## Resource Assessment and Mapping

**N**AMRIA conducts nationwide resource assessment and mapping of various thematic geospatial information on land cover, coastal resources, land classification status, existing land uses, and other ENR datasets, among others. The fundamental datasets serve as vital inputs to policy formulation, physical and developmental planning, provision of social services, disaster-risk management, and climate change mitigation and adaptation studies at various levels. NAMRIA also provides technical assistance to the DENR in support to the Senate and the House of Representatives for the enactment of various legislative measures.





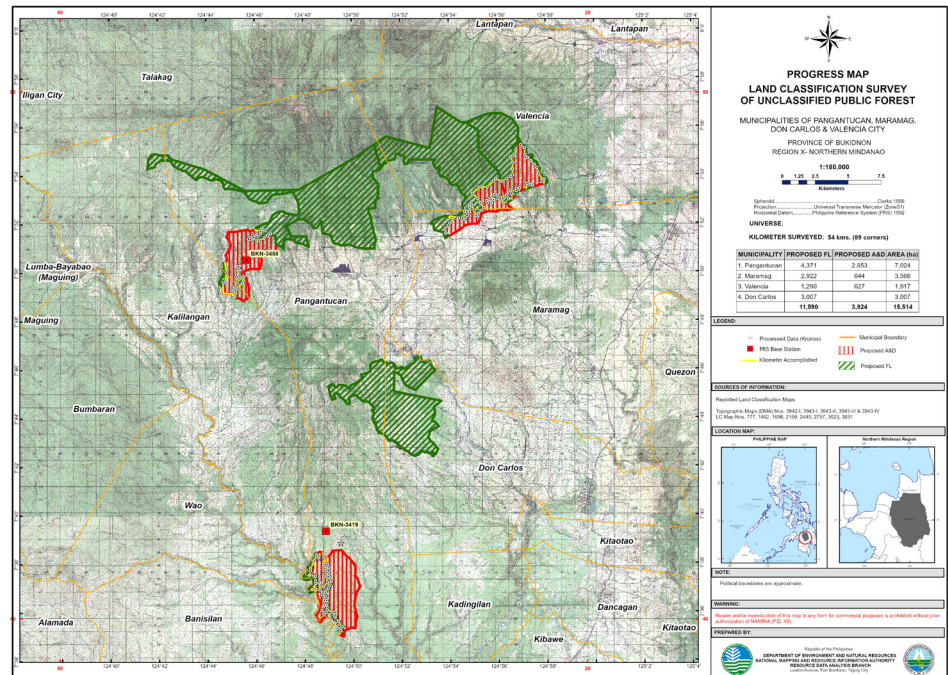
The following were accomplished during the year:

### Forestland Evaluation and Mapping

- ◆ Produced 2 preliminary Land Classification (LC) maps of Unclassified Public Forest (UPF) sites covering the municipalities of Don Carlos, Maramag, Pangantucan, and

Valencia City in the Province of Bukidnon; and of Ayungon and Tayasan in the Province of Negros Oriental

**Progress Map of the LC survey of UPF sites in the municipalities of Don Carlos, Maramag, Pangantucan, and Valencia City in the Province of Bukidnon**



**Conduct of field surveys at the proposed UPF sites in Negros Oriental**





# Highlights from



Visit of a member of Korea's  
21<sup>st</sup> National Assembly



Visit of DEN  
Yulo Loyzag



Philippines secures a seat in the  
Commission on the Limits of the  
Continental Shelf of the United Nations



10<sup>th</sup> anniversary of adoption  
Philippine Rise featured in con



Conduct of information campaign  
on drug awareness



Briefing and tour of facilities for the Air  
Intelligence and Security Wing of  
the Philippine Air Force



# n the Year 2022



NAMRIA Secretary General  
receiving a plaque from NAMRIA



Achievement of five-peat championship in  
the DENR Inter-Agency Sportsfest



Participation in full of the ECS in the  
commemorative PHLPost stamps

FOI CHAMPION  
Agencies/Bureaus/Commissions/Councils  
Category



National Mapping and Resource Information Authority  
(NAMRIA)

Recognition as a 2022 FOI Champion



Participation in the 2022 International  
Coastal Cleanup



Turnover of Existing Land Use  
Maps to Siquijor Province



## Land Cover Mapping

- ◆ Produced 13 land cover maps covering Abra, Cagayan, Ifugao, Kalinga, Mountain Province, Apayao, Aurora, Bataan, Benguet, Bulacan, Pampanga, Tarlac, and Zambales



*Editing of preliminary land cover data based on the validated sampling points and other gathered data*

## Coastal Resource Mapping and Assessment

- ◆ Produced 10 coastal resource maps covering Norte, Ilocos Sur, La Union, Pampanga, Aurora, Bataan, Bulacan, Cagayan, Ilocos Pangasinan, and Zambales



*Field validation of corals at Binuangan, Bagac in the Province of Bataan*





## Geospatial Information Management



**N**AMRIA's geospatial information management and services include information system strategic planning; geospatial databasing; information and web system development; information and communications technology resource and network management; GIS project collaboration and technical assistance; GIS trainings; packaging of geospatial information products and services; stakeholder relations and partnership development; information, education, and communication (IEC) activities; and client services.



## Geospatial System Development

- ◆ Developed the following systems for geospatial support:
  - LGU GIS Information System (LGIS) – This is the enhanced online version of the LGU GIS Capability Assessment Survey being implemented by the Geospatial Database Management System of the Geospatial Information System Management Branch to determine the level of GIS usage of the LGUs nationwide. This application serves as an input to the Partnership and Development program of NAMRIA to attain the Agency vision.
  - Geoportal Philippines: Navigational Warning (NW) Map App - This application will provide the mariners with an online map view of the NW (any matter relating to the safety of navigation in the Philippine waters) issued by NAMRIA. The map itself can be downloaded in raster and vector formats. It will also provide a link to the NW publication on the NAMRIA website.
  - Online Ordering System Phase 2 (OOS Ph2) – This system will facilitate the browsing and ordering of available NAMRIA products and services. The first phase focused on the products in the Map Sales Offices which are purely analog. For 2022, digital products will now be part of the system.
  - HRIS Add-On: Nomination List Generator (NLG) – This module will generate a list of nominees for an L&D intervention based on specific criteria. The system documentation for this was completed in 2021.
  - NAMRIA Cooperative Information System (NCIS) – This system is for the online management of members' loans and contributions, member registry, and the NAMRIA Multi-Purpose Cooperative training database.
- ◆ Maintained 36 information systems and continued to update NAMRIA's website content

**Screenshot of LGIS**

**LGIS**  
LGU GIS CAPABILITY ASSESSMENT INFORMATION SYSTEM

**ACCESS CONFIRMATION**

The LGU GIS Capability Assessment Information System (LGIS) is an online survey to assess the capability of the Local Government Units in terms of using Geographic Information System or GIS.

Username:

Password:

[Log In](#)

[Forgot Password?](#)

LGU GIS Capability Assessment Information System (LGIS)  
Geospatial Information System Management Branch  
Geospatial System Development Division  
8884-2852, 8884-2853 or Local 410



## eMAPA

The eMapa is the NAMRIA's answer to the government's call of providing the public with efficient service delivery. Through the system, the public can now make a request or purchase maps, charts, and publications that are available at our Map Sales Offices (MSO) located nationwide.

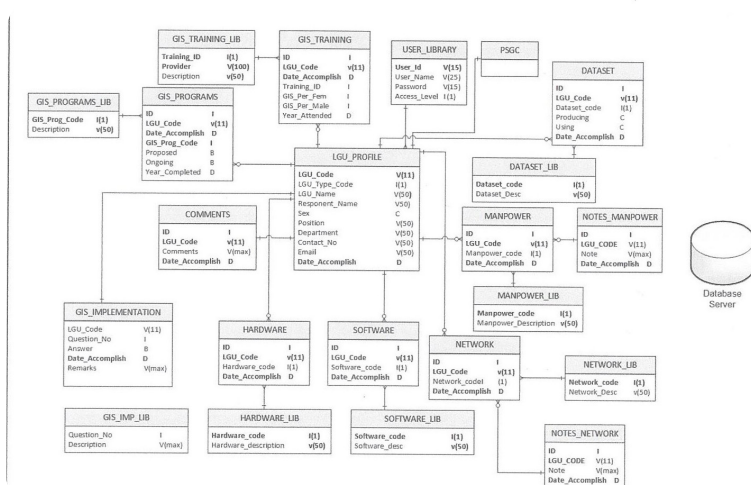


Screenshot of OOS

## Geospatial Database and Maintenance

- ◆ Developed 2 database designs for LGIS and Strategic Performance Information Management System (SPIMS v3)
- ◆ Updated 2 operations support and geospatial corporate databases, namely: Geoportal

Philippines; Property Acknowledgement Receipt Monitoring System (PARMS); and NAMRIA Provident Fund Information Systems (NPFIS)



Database schema of LGIS (top) and SPIMS v3 (right)



## Geographic Information Services

- ◆ Produced 4 IEC materials: NAMRIA Fiscal Year (FY) 2021 Annual Report, Infomapper Volume XXVII, 1 institutional advertisement, and 1 GTC Brochure
- ◆ Conducted 6 IEC campaigns
- ◆ Conducted 38 regular/Memorandum of Agreement-based trainings on Basic/Advanced GIS and Remote Sensing online
- ◆ Served 100% of clients through phone-in, walk-in, Short Message Service, and via online (email and Facebook) queries



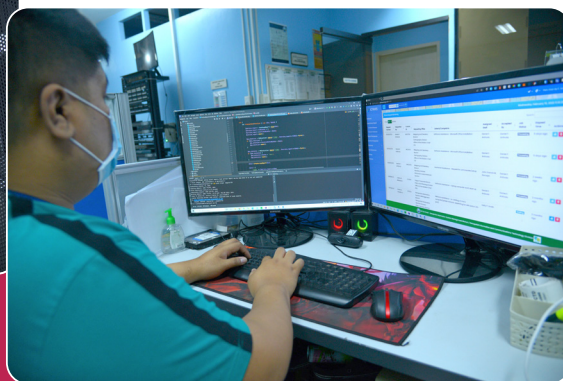
*IEC campaigns conducted*

## Information and Communications Technology (ICT) Resource Management

- ◆ Maintained all computer systems at 99.99% operational capacity
- ◆ Maintained 1 system network at 99.99% operational capacity



*Preventive maintenance of the main server room in Fort Bonifacio Office*





## General Administration and Support



**G**eneral Administration and Support (GAS) are strategic programs covering Organizational Performance Management, Financial Management, Administrative Support Services, and Engineering Development and Management. These programs are the crucial bedrocks to the efficient implementation of NAMRIA's mandated functions. **Organizational Performance Management** encompasses overall strategic planning, annual planning, policy development and implementation, plan and program monitoring and evaluation, and strategic performance management. These activities ensure that NAMRIA's programs, projects, and undertakings are anchored on national thrusts and priorities and implemented efficiently and effectively; and that individual performance is linked with the agency performance, vision, mission, and strategic goals. **Financial Management** involves NAMRIA budget program and guideline formulation, fiscal control, accounting, and management and internal audit. These activities promote sound financial decision making and judicious utilization of government funds for agency operation and public service delivery. **Administrative Support Services** are strategic services on human resource management and development, property and supply management, records management, cash management, and library management. These services provide the necessary office support essential to the performance and accomplishment of NAMRIA's objectives. **Engineering Development and Management** entails the development, maintenance, and upgrading of buildings, facilities, vehicles, and technical, scientific, and communication equipment. These activities manage NAMRIA's infrastructure requirements and warrant the availability and functionality of facilities and equipment. GAS programs are aligned and supportive of NAMRIA's strategic goals, championing organizational transformation to enhance organizational performance.



The following were accomplished during the year:

### General Management and Supervision

- ◆ Approved agency plans, proposals, and reports
- ◆ Provided legal assistance and review of legal documents
- ◆ Continued partnership and collaboration with other agencies and organizations
- ◆ Conducted Management Reviews, Quarterly Physical and Financial Performance Reviews, and Staff Meetings
- ◆ Approved documentation on Internal Controls, Audit Engagement Plan, and Internal Audit Program



*Joint meeting between World Bank and NAMRIA*

### Organizational Performance Management

- ◆ Accomplished the following for the period:
  - Prepared 1 Final Assessment Report per FY 2022 Project Folder (PF); 1 Initial Assessment Report per FY 2023 PF; and 2 Post-Activity Reports and Department of Budget and Management forms and other required documents
  - Prepared and submitted 2023 Budget Proposal, 1 Agency Work and Financial Plan, and 1 Planning Workshop Post-Activity report
  - Prepared 1 NAMRIA Forward Estimates, and 1 consolidated Public Investment Program and Three-Year Rolling Infrastructure Program proposal
  - Facilitated the review and formulation of various policy reform targets under the 2021-2028 NAMRIA Strategic Plan
  - Formulated the Guidelines on the Preparation of FY 2023 Work and Financial Plan
  - Enhanced, finalized, and packaged the NAMRIA Public Service Continuity Plan
  - Conducted quarterly program review and analysis
  - Conducted 4 field inspection/validation and prepared field inspection reports
  - Prepared 1 draft guidelines on the standardization of Quality Management and Operations Manual
  - Prepared draft guidelines on the use of the new Risk Register Form using the Risk Management Information System
  - Facilitated 1 management review event and prepared its report

*Philippine Civil Service Anniversary Oath-taking Ceremony*



## Administrative Support Services

- ◆ Strategic Human Resource Management
  - On Recruitment, Selection, and Placement:
    - Conducted 1 Self-Assessment on the Civil Service Commission Program to Institutionalize Meritocracy and Excellence in Human Resource Management (PRIME HRM) indicators
    - Conducted 1 PRIME HRM Level III Assessment on the 4 core HR processes (Recruitment, Selection, and Placement; L&D; Performance Management; and Rewards and Recognition)
    - Processed/filled up vacant positions
    - Reviewed the Competency-Based System–Job Description for priority positions
    - Outsourced personnel complement
  - On Individual Performance Management:
    - Summarized Individual Performance Ratings and Performance-Based Bonus
    - Evaluated Matrix Rankings for submission to Administrative Order Number 25 Secretariat
    - Crafted 1 HR Data Metrics and Analytics
    - Drafted 1 Succession Development Program and 1 Retirement Program
    - Prepared 1 Report on Performance Management and Competency Framework Integration
  - On L&D:
    - Approved and posted 2022 L&D Plan and Training Calendar
    - Submitted 1 Report on Individual Development Plan
    - Implemented 12 L&D activities (in-house and outsourced, both virtual)
    - Approved 1 Annual L&D Monitoring Report
  - On Rewards and Recognition:
    - Granted 146 of awards based on Program on Awards and Incentives for Service Excellence (PRAISE) Guidelines
    - Approved 1 NAMRIA PRAISE Guidelines by the Administrator
  - On HRIS Management:
    - Updated 3 HR databases monthly for HRIS, L&D Management System, and Personal Service Itemization and Plantilla of Personnel
  - On Morale and Welfare:
    - Processed compensation and benefit documents
    - Reviewed 629 Statement of Assets, Liabilities, and Net Worth forms
- ◆ On Acquisition and Management of Goods and Services:
  - Accomplished processing of Purchase Requests; and acceptance of delivered Purchase Orders and Work Orders
  - Prepared monthly, semestral, and annual reports such as Performance Evaluation Reports; Annual Procurement Plan; Report of Supplies and Materials Issued; Agency Report on Physical Count of NAMRIA Property, Plant, and Equipment; Inventory and Inspection Report on Unserviceable Property; and consolidated Monthly Inventory and Inspection Report
- ◆ On Records Management:
  - Received and processed internal and external documents
  - Compiled 2021 Report of Branch Annual Records Inventory and Appraisal
  - Updated Records Disposition Schedule
  - Addressed altered documented information
- ◆ On Cash Management:
  - Prepared Report of Checks Issued for List of Due and Demandable Accounts Payable/Advice to Debit and check folders
  - Reported Accountability for Accountable Forms (RAAF) for checks, Summary of Daily Actual Disbursement Report, Cash Receipts Record, Report of Collection and Deposits, and RAAF for Official Receipts
- ◆ On Library Management:
  - Acquired and circulated information materials requested
  - Processed library materials which include cataloguing of rare books and new acquisitions
  - Preserved and conserved library materials consisting of rare books, maps, and scanned pages of old news clips



## Financial and Management Services

- ◆ Financial Management
  - Processed Statement of Allotment, Obligations and Balances; and vouchers for end-users and suppliers
  - Prepared Disbursement and Income Report, Financial Statements, Taxation Reports, monthly Financial Performance Reports, Quarterly Budget and Financial Accountability Reports, Status of Funds, Aging of Cash Advance, Bank Reconciliation Reports, and remittances to the Government Service Insurance System, Bureau of Internal Revenue, Philippine Health Insurance Corporation, and other collecting agencies
  - Submitted budget proposals
  - Conducted pre- and post-audit on all travel- and fieldwork-related documents

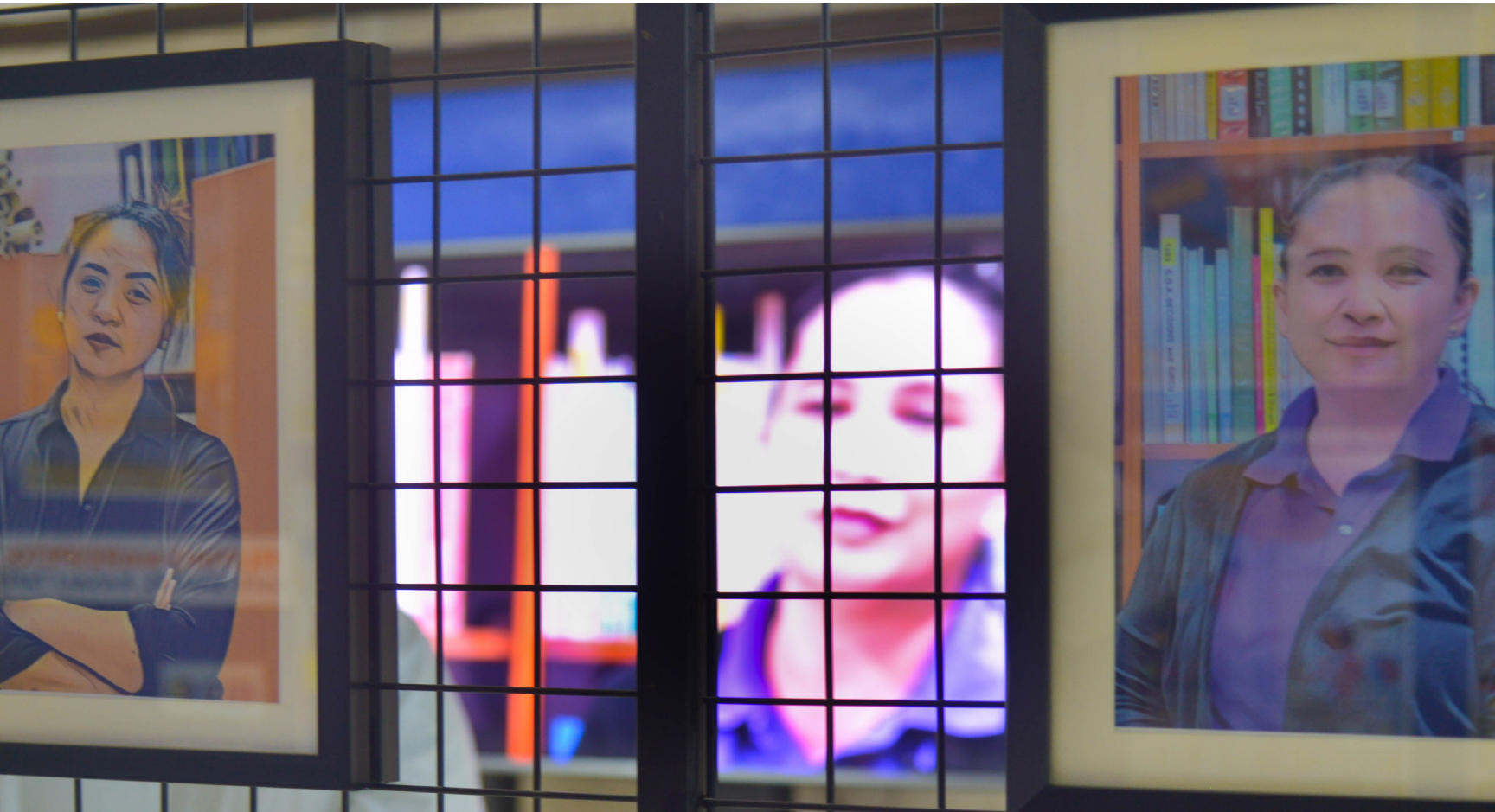
## Engineering Services

- Renovated the NAMRIA Map Sales Office (MSO) in Cebu City
- Installed 25 units of inverter type air-conditioners
- Established 1 rainwater harvesting facility
- Maintained and repaired buildings, appurtenances, power stations, grounds, and air conditioning/plumbing facilities
- Performed preventive maintenance for 48 technical equipment and 16 communications equipment
- Performed 236 preventive and 177 corrective maintenance for NAMRIA vehicles
- Served the transportation needs of officials and employees



*Before (left) and after (right) photos showing the renovation of the NAMRIA Region VII-Cebu MSO*

## Gender and Development



**N**AMRIA, in partnership with the DENR and other concerned institutions, conducts and participates in various GAD programs/activities. Its GAD program aims to heighten the awareness and understanding of employees on GAD concepts and agenda, such as the protection of children and the enhancement of the role of women in its various endeavors.



**Accomplishments under the NAMRIA GAD program are as follows:**

- Produced and distributed GAD IEC materials
- Conducted 14 activities under the 2022 Women's Month Celebration and 6 activities under the observance of the 18-Day Campaign to End Violence against Women (VAW)
- Prepared and submitted 1 Gender Mainstreaming Evaluation Framework report, 1 2023 GAD Plan and Budget, and 1 2022 GAD Accomplishment Report
- Formulated policies on solo parents and on anti-VAW and children
- Maintained a lactation station and the NAMRIA Day Care Center
- Trained 1 GAD Focal Point System personnel for GAD Resource Pool
- Maintained and enhanced the GAD Information System (GADIS)
- Conducted 1 IEC on GADIS



***GAD Webinar on different fields of NAMRIA Juanas***

***Kick-off for the 2022 18-Day Campaign to End VAW***



# NAMRIA

# ORGANIZATIONAL CHART



**Usec. PETER N. TIANGCO, PhD, CESO I**  
ADMINISTRATOR



**EFREN P. CARANDANG**  
Deputy Administrator



**JOHN SANTIAGO F. FABIC**  
Deputy Administrator



**ROWENA E. BONGALOS**  
Chief of Staff



**CONCEPCION A. BRINGAS**  
Director  
Support Services Branch



**Capt. ANTONIO G. VALENZUELA, JR.**  
Officer in Charge  
Director  
Hydrography Branch



**RUEL DM. BELEN**  
Director  
Mapping and Geodesy  
Branch



**OFELIA T. CASTRO**  
Director  
Resource Data Analysis  
Branch



**FEBRINA E. DAMASO**  
Director  
Geospatial Information  
System Management Branch



**Capt. CARTER S. LUMA-ANG**  
Officer in Charge  
Assistant Director  
Hydrography Branch



**Capt. JOSE T. AREVALO Jr.**  
Officer in Charge  
Assistant Director  
Hydrography Branch



**BRIAN A. DELA CRUZ**  
Officer in Charge  
Assistant Director  
Mapping and Geodesy  
Branch



**VIOLETA A. QUILIZA**  
Assistant Director  
Resource Data Analysis  
Branch



**BENJAMIN P. BALAIS**  
Assistant Director  
Geospatial Information  
System Management Branch



**NOEL R. VEGA**  
Chief  
Financial and Management  
Division



**DENNIS ARSEPIO B. BRINGAS**  
Chief  
Physical Oceanography  
Division



**NICANDRO P. PARAYNO**  
Chief  
Photogrammetry  
Division



**BEATA D. BATADLAN**  
Chief  
Land Classification Division



**MAGELLAN C. AZUCENA**  
Chief  
Geospatial Information  
and Communications  
Technology Division



**VIRGILIO N. PANGA**  
Chief  
Engineering Services  
Division



**Cdr. TEODORO D. PASAHOL**  
Officer in Charge  
Survey Support Division



**RONALDO C. GATCHALIAN**  
Chief  
Geodesy Division



**SYLVIA L. ESPERANZA**  
Chief  
Land Resource Data  
Analysis Division



**MARIA ROMINA dr. PE BENITO**  
Chief  
Geospatial Information  
Services Division



**XENIA R. ANDRES**  
Officer in Charge  
Policy and Planning  
Division



**LCdr. AARON ANDRO V. CHING**  
Officer in Charge  
Maritime Affairs Division



**CELEDONIO D. PILI**  
Officer in Charge  
Reprography and  
Printing Division



**RAUL T. MAGABO**  
Officer in Charge  
Physiography and Coastal  
Resource Division



**ARLENE B. BRILLANTES**  
Chief  
Geospatial System  
Development Division



**Atty. JESSIE M. RACIMO**  
Officer in Charge  
Administrative Division



**LCdr. MAYLORD M. DE CHAVEZ**  
Officer in Charge  
Nautical Charting Division



**LEO B. GRAFIL**  
Officer in Charge  
Cartography Division



**CRISTINA M. MONTOYA**  
Officer in Charge  
Geospatial Integration  
Division



**ROSAL H. DOLANAS**  
Chief  
Geospatial Database  
Management Division



# Financial Report

## STATEMENT OF FINANCIAL POSITION ALL FUNDS AS OF DECEMBER 31, 2022

	2022	2021
<b>ASSETS</b>		
<b>Current Assets</b>		
Cash and Cash Equivalents	24,854,452.14	17,162,288.91
Receivables	1,126,971.66	
Inventories	137,035,893.45	86,674,690.44
Other Current Assets	5,988,770.67	6,500,291.48
<b>Total Current Assets</b>	<b>169,006,087.92</b>	<b>110,337,270.83</b>
<b>Non-Current Assets</b>		
Receivables	1,673,435.75	2,042,880.14
Property, Plant and Equipment	1,071,394,593.45	1,234,863,554.70
Intangible Assets	1,039,456,907.63	1,064,463,251.58
Other Non-Current Asset	11,678,096.34	13,217,886.53
<b>Total Non-Current Assets</b>	<b>2,124,203,033.17</b>	<b>2,314,587,572.95</b>
<b>Total Assets</b>	<b>2,293,209,121.09</b>	<b>2,424,924,843.78</b>
<b>LIABILITIES</b>		
<b>Current Liabilities</b>		
Financial Liabilities	101,886,535.54	298,099,240.93
Inter-Agency Payables	23,311,978.13	29,516,789.29
Due to Operating Units	24,635,126.31	15,418,926.17
Other Payables	2,507,290.15	4,192,694.11
<b>Total Current Liabilities</b>	<b>152,340,930.13</b>	<b>347,227,650.50</b>
<b>Non-Current Liabilities</b>		
Trust Liabilities	3,865,373.66	219,182.35
<b>Total Non-Current Liabilities</b>	<b>3,865,373.66</b>	<b>219,182.35</b>
<b>Total Liabilities</b>	<b>156,206,303.79</b>	<b>347,446,832.85</b>
<b>Net Assets/Equity</b>		
Accumulated Surplus/(Deficit)	2,137,002,817.30	2,077,478,010.93
<b>Total Net Assets/Equity</b>	<b>2,137,002,817.30</b>	<b>2,077,478,010.93</b>
<b>TOTAL LIABILITIES AND NET ASSETS/EQUITY</b>	<b>2,293,209,121.09</b>	<b>2,424,924,843.78</b>

# MAP SALES OFFICES

REGION	ADDRESS	MSO STAFF	CONTACT NUMBER
(Main) Taguig City	Lawton Avenue Fort Andres Bonifacio Taguig City	Dante A. Rosette, Jr. Rina Grace G. Gersalia Ana Victoria A. Labor Sheila Mae G. Lopez Marlon Y. Aguilar	(02) 8810 4831 to 42 local 431 (02) 8810 54 67 0956 5587584 0915 2777903
Manila	421 Barraca Street San Nicolas, Manila	SN3 Marilou B. Cinco Romeo B. Brizuela Mary Jane M. Montano John Paul C. Villarico	(02) 8245 94 98 (02) 8241 3495 local 117 0966 8523814 0921 3627524
Quezon City	FMB Building DENR Compound Visayas Avenue, Quezon City	Sherry Ann S. Perez Glenn M. De Jesus	0999 6079193 0928 4497159
Region I - La Union	DENR Government Center Sevilla, City of San Fernando La Union	Bona G. Perez	0917 1885162 0961 4552526
Region II – Cagayan*	DENR-Land Evaluation Party Building II, Carig, Tuguegarao City		
Region III - Pampanga	DENR Compound, Diosdado Macapagal Government Center Maimpis, City of San Fernando Pampanga	Lily C. Pineda	0917 8980403
Region IVA - Batangas	Provincial Planning and Development Office Capitol Complex, Batangas City	Eng'r. Leda P. Velasquez	0961 4552583
Region IVB - Palawan	DENR-PENRO - Santa Monica, Puerto Princesa City, Palawan	Juvy B. Sarmiento Corazon L. Zefarosa	0916 203 8041
Region V - Albay	DENR Operation/Survey Division Rizal Street, Sagpon Legazpi City	Isabelita T. Climaco	0919 8944613
Region VI – Iloilo	Manuel Lagunilla Building, DENR Compound, Parola Iloilo City	Dorothy C. Salvador	0919 8873862
Region VII - Cebu	DENR-CENRO Building, Arellano Boulevard corner V. Sotto Street Pier 3, Cebu City	Melchor E. Togonon Renato B. Alcontin, Jr.	0922 7910372 0961 4552579 0931 0010341
Region VIII - Leyte*	DENR Compound, Santo Niño Extension, Tacloban City		
Region IX - Zamboanga City	DENR CENRO West General Vicente Alvarez Street, Zone 4 Zamboanga City	Annete P. Flores	0955 892 8777 0961 4552574
Region IX – Zamboanga del Sur	President Corazon C. Aquino Regional Government Center Balintawak, Pagadian City	Lucero A. Santillan	0935 5962917
Region X - Misamis Oriental	DENR Building Macabalan, Cagayan de Oro City	Jennifer D. Bagamaspad	0966 8524887
Region XI - Davao del Sur	Kilometer 7, SPED Road Bangkal, Davao City	Eduardo A. Deocampo	0915 6127770 0966 8523825
Region XII - South Cotabato	3rd Floor, DENR Building Land Evaluation Survey Section Aurora Street, Barangay Zone IV Koronadal City, South Cotabato	Jeanyluz B. Bautista	0909 9324745
CARAGA, Region XIII Agusan del Norte	DENR Regional Office Land Management Building Ambago, Butuan City	Maricar E. Siega	0948 3619452

\*Temporarily closed

as of December 31, 2022





## NAMRIA MISSION

NAMRIA's mission is to provide quality topographic maps, nautical charts, and other geospatial products and services in a timely and coordinated manner.

## NAMRIA VISION

NAMRIA's vision is to become a center of excellence, building a geospatially empowered Philippines.

## NAMRIA SERVICE PLEDGE

We at NAMRIA, guided by our mandate, vision, mission, and core values, are committed to our clients' and stakeholders' utmost satisfaction in providing quality geospatial information and services while upholding the regulatory, professional, ethical, and efficiency standards.

In any disruptive situation, we shall exert best efforts to promptly recover our viability, restore our operations, ensure the continuity of our essential functions, and strengthen the resilience of our agency, bearing in mind the welfare of our fellow employees and guests, and the protection of our resources.

We shall constantly enhance our competencies to continually improve our quality and continuity management systems, adopt world-class technologies, respond to the needs of changing times, and be an agent for a geospatially empowered Philippines.



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**ISO 9001:2015-CERTIFIED FOR MAPPING AND  
GEOSPATIAL INFORMATION MANAGEMENT**

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We invest in people Silver



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Prepared by the  
GEOSPATIAL INFORMATION SERVICES DIVISION  
Geospatial Information System Management Branch  
in coordination with the Policy and Planning Division and  
the other NAMRIA Branches

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