



# ANNUAL REPORT 2021



**“Building a geospatially-empowered Philippines”**





# Annual Report 2021

National Mapping and Resource  
Information Authority



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# Administrator's Report



The year 2021 reflects the transformation of NAMRIA into a more inclusive, innovative, and resilient organization. The unparalleled contributions of our workforce amid the ongoing pandemic have led to the realization of our goals, and the development of timely and modern approaches for providing public services under the “new normal.” As we enjoin the government in its rebuilding efforts, NAMRIA continues to render map-making and other related services to the Filipino people. Our 2021 Annual Report details how our work for the past year contributes to NAMRIA’s overarching goal of geospatially empowering the nation.

For the agency’s core program, Mapping and Resource Information, we continued to update our maps, charts, and statistics despite the challenges brought by the current pandemic. In our Hydrographic and Oceanographic Surveys and Nautical Charting Program, we conducted hydrographic surveys, updated our nautical charts, issued navigational warnings to seafarers, and published vital maritime information such as the 2022 *Philippine List of Lights and Tide and Current Tables*, as well as the 7<sup>th</sup> Edition, Volume 2 of *Philippine Coast Pilot* book. We also produced topographic maps on various scales depicting updated information for use as base data by other government agencies and related stakeholders in the production of geohazard and thematic maps, and for other uses under the Topographic Mapping and Geodetic

Surveys Program. We conducted assessment and mapping of the country’s environment and natural resource through the Resource Mapping and Assessment Program and produced provincial preliminary land classification and land cover maps, coastal resource and environment and natural resources (ENR) maps, and land use map.

Establishing and strengthening international and regional partnerships are central to the work of NAMRIA. In February, the ASEAN Geospatial, a cooperative network of ASEAN geospatial agencies, companies, and professional networks partnered with NAMRIA for the ASEAN Geospatial Challenge (AGC) 2021: Geospatial Youth Edition. AGC 2021 brings the youth in the ASEAN region together to use geospatial technology and information to support nations in achieving their Sustainable Development Goals. In August, NAMRIA joined the Department of Foreign Affairs as members of the Philippine delegation to the Eleventh Session of the United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM). We are also an active member and contributor to UN-GGIM’s Working Group on Geospatial Information and Services for Disasters, Regional Committee on the UN-GGIM for Asia and the Pacific, United Nations Group of Experts on Geographical Names, and the International Hydrographic Organization.

Engagements with local organizations were also established by the agency this year. In March, we forged alliance with the Dangerous Drugs Board (DDB) to strengthen our campaign against illegal drugs. We signed a Memorandum of Agreement (MOA) with DDB for our institutional support to the implementation of the Philippine Anti-Illegal Drugs Strategy of the Inter-Agency Committee on Anti-Illegal Drugs. The MOA included the granting of funds for NAMRIA to implement our own anti-illegal drugs action plan. We also formalized a Memorandum of Understanding with the Department of Public Works and Highways on the sharing of data for the Continuously Operating Reference Station networks. The partnership intends to optimize government resources and promote the use of Global Navigation Satellite Systems, particularly for infrastructure development. Apart from these partnerships, we also maintained strong ties with the National Task Force for the West Philippine Sea, the Build Back Better Task Force, Executive Committee on Real Property Valuation and other committees within the Department of Environment and Natural Resources (DENR).

The increasing availability of online platforms allowed the agency to continue its learning and development programs for 2021. We partnered with the Ateneo Bulatao Center to provide a series of webinars for all employees to better understand and cope with various mental health issues during the pandemic. For our 2021 Women’s Month Celebration, the NAMRIA Gender Focal Point System (GFPS) organized a Gender and Development (GAD) Talk on the agency’s women commissioned officers. We later expanded this into a learning event on starting a career in government service, as part of our observance of the 121st Philippine Civil Service Anniversary. In partnership with the National Irrigation



Administration–Region IX, our Hydrography Branch facilitated the first ever online Basic Hydrography Training. The said event is part of NIA's program for strengthening their strategies on mitigating environmental damage from dams. Relevant online trainings on Freedom of Information (FOI), Auditing for Quality Management System, and disaster resilience were also organized by the agency.

The year 2021 was also an active year for our NAMRIA Geomatics Training Center (GTC) as 31 online trainings were conducted on Basic and Advance Geographic Information System (GIS). Our trainings reached a wide profile of participants, including technical staff from national and local government units (LGUs), private sector, academia, and non-government organizations.


Several activities were conducted as part of NAMRIA's public service. For the year, our Morale and Welfare Committee implemented an array of activities focusing on physical health and wellness, including the annual vaccination program, virtual fun run and calisthenics, among others. Social welfare activities were provided by our Bayanihang Bayan Desk, including outreach activities to Hospicio de San Jose in May and donation drives to Kapitan Jose Cardones Integrated School, Apelo Cruz Elementary School, and Barangay Talaba in the City of Bacoor, all held in November.

Consistency with the goals and objectives and utmost dedication to the mandates led to various accolades and awards received by NAMRIA in 2021. After meeting all requirements for Investors in People (IIP) Generation 6 Framework, NAMRIA was awarded Silver accreditation in the reaccreditation assessment held in May. NAMRIA is the first national government agency to achieve silver accreditation under the IIP We invest in people program, next to the Civil Service Commission which is a constitutional commission. We have also been shortlisted as "Overseas Employer of the Year: Silver" in September. The shortlist was from a reported "record number of entries" received by the IIP that helps leaders, employees, and companies work together to create an effective environment through accreditation against a framework to measure performance. Finally, NAMRIA also secured its ISO 9001:2015 recertification from 2021 to 2024 after meeting the criteria for the overall effectiveness of the agency's system processes and documentation for Mapping and Geospatial Information Management.

With the increasing demand for geospatial information, NAMRIA will continue to produce timely, accurate, and relevant maps, charts, and other products as inputs to national and local planning and development. We will also adhere to the priority programs of the Philippine Government and maintain our roles as active institutional partners for the socioeconomic and environmental agenda

of Environment Secretary Roy A. Cimatu and President Rodrigo Roa Duterte. We anticipate another busy year for our agency as the following programs, activities, and projects will be implemented: conduct of nationwide hydrographic surveys, nautical charting, 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 (UMP) and the Philippine Gazetteer project; geodetic network development including the development and maintenance of the Philippine Geodetic Vertical Datum 2020; comprehensive mapping of environment and natural resources to update and integrate data on forestland, land cover, coastal resources; participatory land use mapping; strengthening of geospatial information management activities, such as geospatial systems development, geospatial database and maintenance, geospatial information services, and geospatial information and communications technology; and the implementation of human resource (HR) and organizational development programs such as competency-based HR system, recruitment and placement system, strategic performance management system, strategic human resource development, morale and welfare, and employee engagement.

The path to recovery and rehabilitation presents many challenges for the Philippine government—one that would require fervor and determination among all public servants. As the country gains traction towards normalcy, NAMRIA will continue to offer the public with relevant and timely map-making services. Performed by a competent workforce, NAMRIA will be in a better position to geospatially empower the nation.



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



## Topographic Mapping and Geodetic Surveys

**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 updated administrative maps showing the political boundaries of provinces, regions or municipalities.

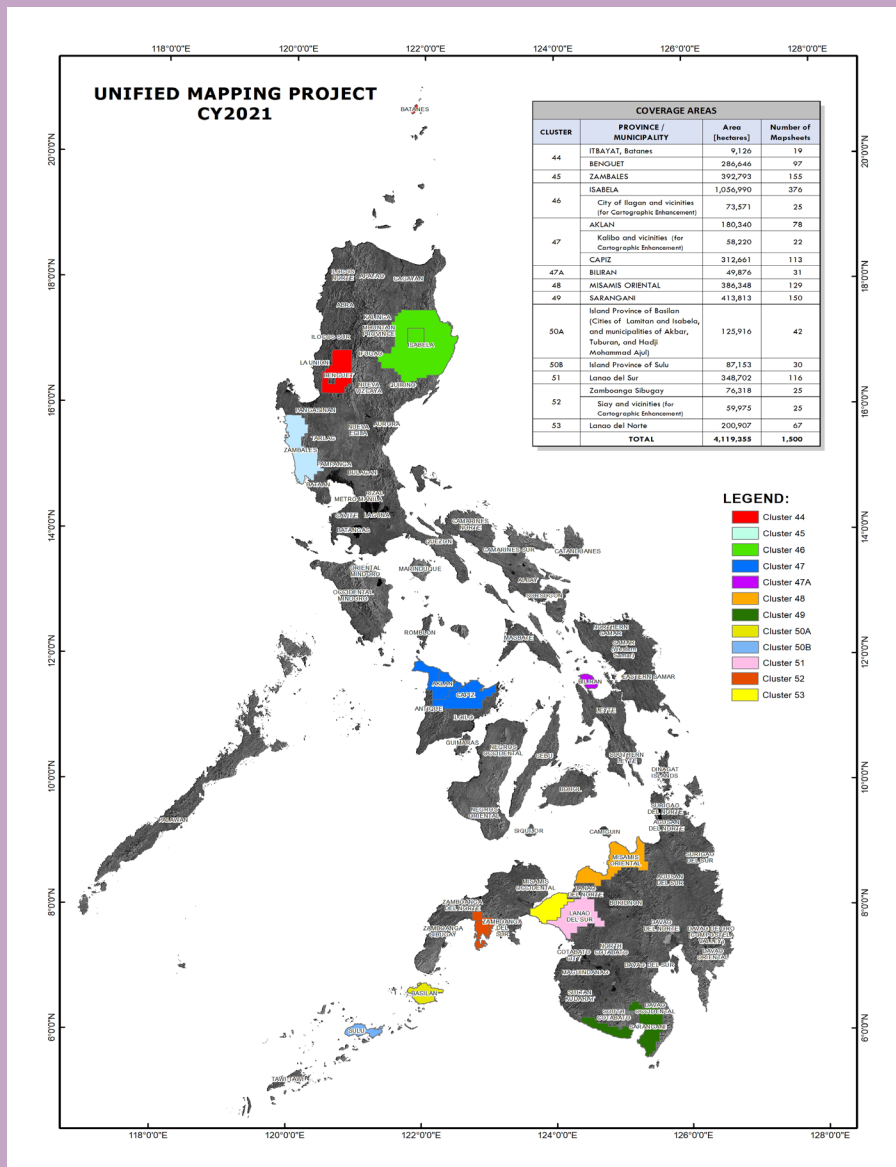




The following were accomplished during the year:

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

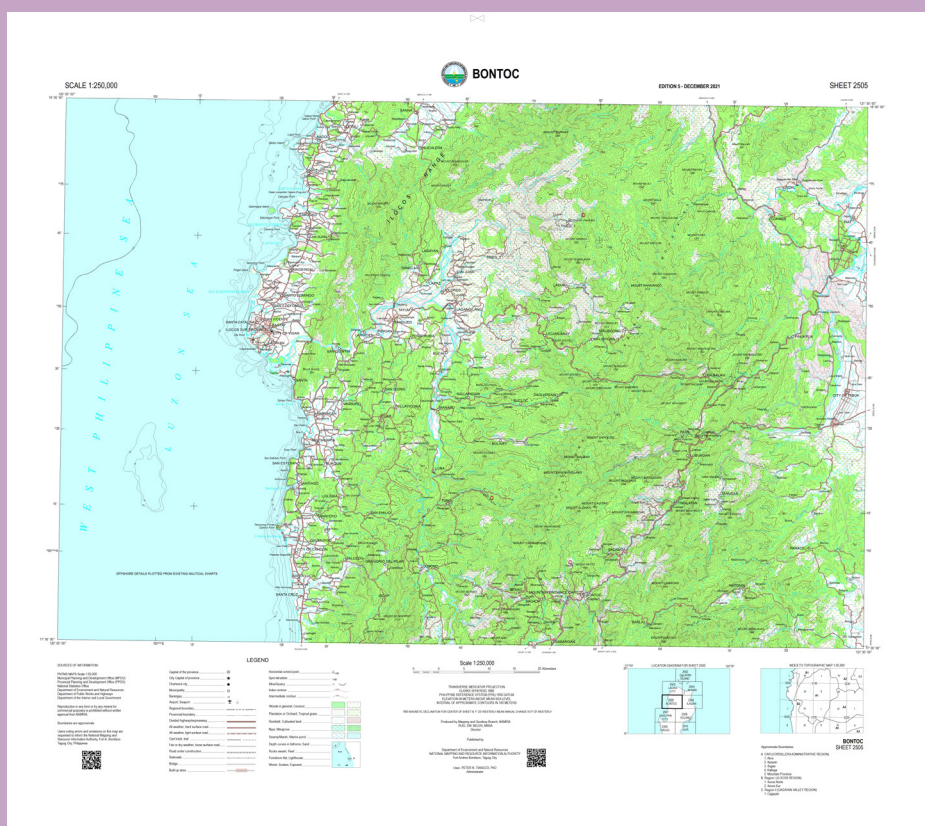
- ◆ Produced 360 map sheets on a scale of 1:4,000 covering Baguio City, Iligan City, Itogon, La Trinidad, Lanao del Norte, Tuba, and Tublay
- ◆ Enhanced 55 map sheets covering Bukidnon, Malaybalay City, Puerto Princesa City, Sorsogon City, and Valencia
- ◆ Under the UMP, completed feature extraction for the production of 1,500 topographic maps on a scale of 1:10,000, covering Aklan, Basilan, Biliran, Capiz, Lanao del Norte, Lanao del Sur, Misamis Oriental, Sarangani, Sulu, and Zamboanga Sibugay



*UMP for Calendar Year 2021 featuring 1,500 topographic maps on a scale of 1:10,000*

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

- ◆ For medium-scale mapping, completed the enhancement of 45 map sheets on a scale of 1:50,000 covering Aklan, Antique, Capiz, Guimaras, Iloilo, Masbate, Negros Occidental, and Romblon
- ◆ For small-scale mapping, produced 5 map sheets on a scale of 1:250,000 covering Bontoc, Dagupan City, Mambahenauhan Island, and Tawi-tawi Islands



*Cartographically enhanced topographic map of the Province of Bontoc on a scale of 1:250,000*

## Topographic Database Mapping

- ◆ Produced 24 map sheets covering portions of the provinces in Mindandao

## Updating of Philippine Gazetteer

- ◆ Uploaded/encoded 1 Geographic Names Database with 13 provinces covering Abra, Apayao, Bataan, Benguet, Bulacan, Ifugao, Ilocos Norte, Ilocos Sur, Kalinga, La Union, Mt. Province, Pampanga, and Zambales

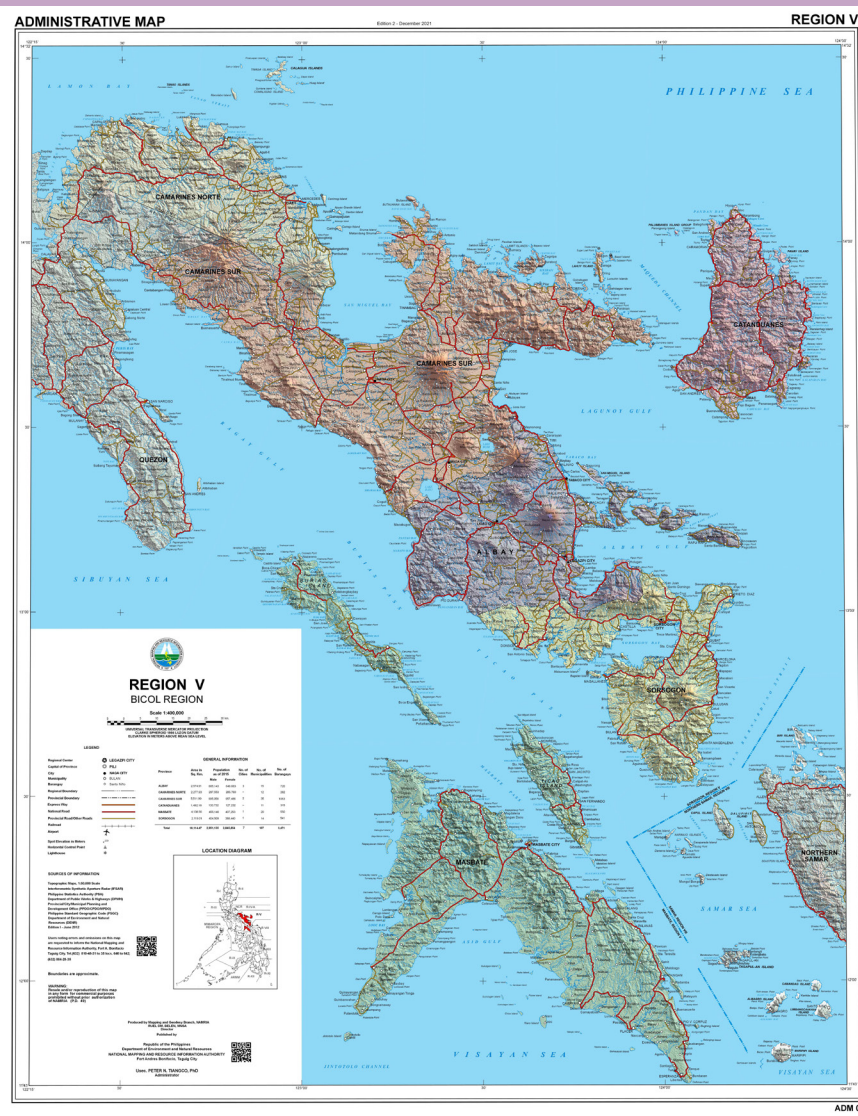


## Administrative/Special Mapping

- ◆ Completed 12 administrative maps covering 7 provinces: Agusan del Norte, Agusan del Sur, Aklan, Davao de Oro, Davao del Norte, Davao Oriental, and Masbate; and 5 regions: National Capital Region (NCR), Region III (Central Luzon), Region IV-A (CALABARZON), Region V, and Region VII

## Printing of Maps, Charts, and Publications

- ◆ Reproduced/printed 85 sets of topographic/administrative maps and nautical charts
- ◆ Printed copies of the NAMRIA centennial calendar (5,000 sheets), NAMRIA 2022 planner (3,000 sheets), and NAMRIA 2022 Calendar (13,000 sheets)



*Administrative map of Region V (Bicol) on a scale of 1:400,000*

The following were accomplished during the year:

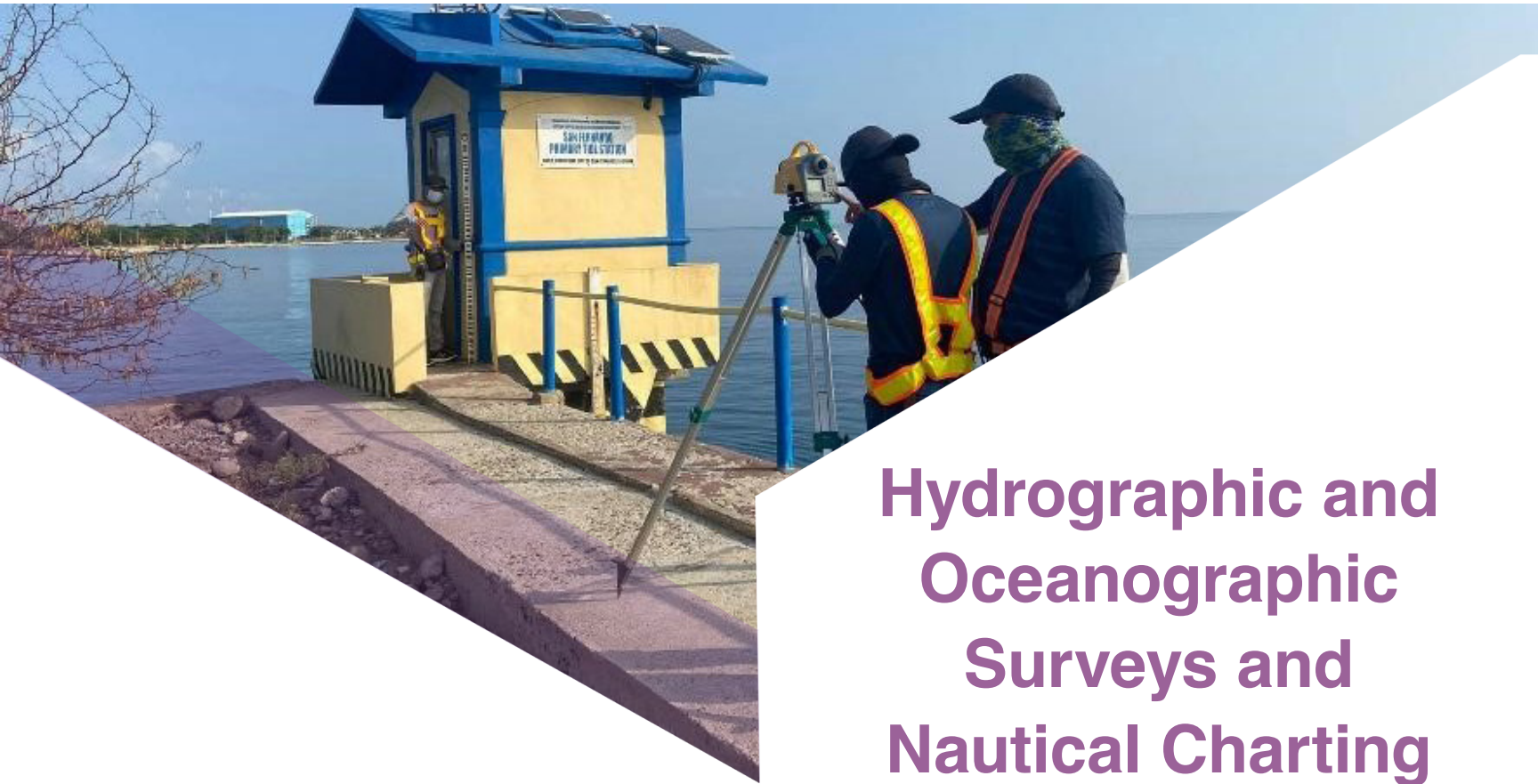
### Modernization of the Philippine Geodetic Reference System (PGRS)

- ◆ Established 3 Active Geodetic Stations (AGS) in Maitum, Sarangani; Mati, Davao Oriental; and Tacurong, Sultan Kudarat
- ◆ Completed reconnaissance of 1 site for the establishment of AGS in Pinamalayan, Oriental Mindoro
- ◆ Conducted reconnaissance for the selection of AGS in 6 sites, namely: Buenavista, Marinduque; Del Gallego, Camarines Sur; Matnog, Sorsogon; Mauban, Quezon; Pinamalayan, Oriental Mindoro; and Tibiao, Antique;
- ◆ Conducted releveling surveys in Mindanao (620 km) and in NCR, Regions III and IV (100 km)
- ◆ Maintained 52 AGS for the year
- ◆ Validated 100 GCPs in Regions II, III, and Cordillera Administrative Region for the Philippine Geoid Model
- ◆ Conducted reconnaissance survey of 135 Geodetic Control Points (GCPs)
- ◆ Performed densification of 800 Gravity Stations and maintenance of 100 GCPs in Pampanga, NCR, and Regions IV and V



*Establishment of AGS in Tacurong, Sultan Kudarat*





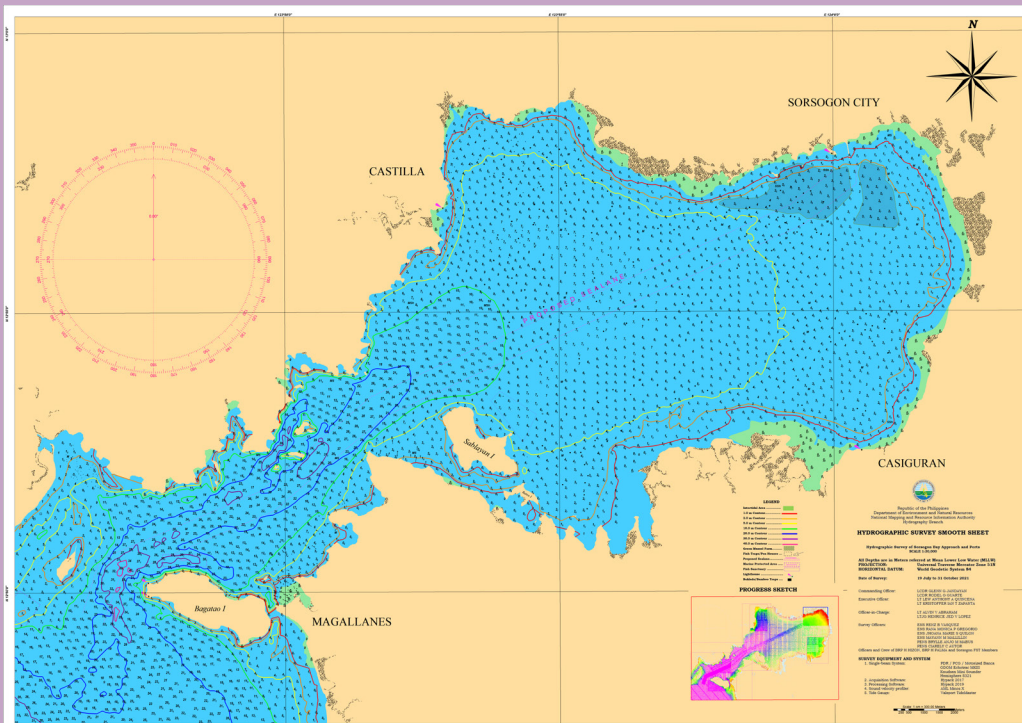
## Hydrographic and Oceanographic Surveys and Nautical Charting

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

The following were accomplished during the year:

### Hydrographic Surveys

- ◆ Conducted hydrographic surveys in the Philippine Archipelagic Waters (AW) covering 270 sq. km. of Tayabas Bay-Ragay Gulf-Sorsogon Bay and 190.37 sq. km. covering the vicinity of Bataan and Zambales, and 14.031 sq. km. covering the Subic Bay Navigational Lane
- ◆ Conducted hydrographic surveys in 11 ports and harbors covering Casiguran; Castilla; Cebu North and South Approach; Magallanes; Masbate; Pasacao; Polambato, Bogo City; Polambato and berths; Sorsogon; and Subic
- ◆ Conducted field geomagnetic observations of 21 Magnetic Repeat Stations (MRS)
- ◆ Acquired 8,200 hourly values of geomagnetic data and 102 absolute magnetic observations
- ◆ Performed quality control of bathymetric data of the ff:
  - o 10 port and harbor areas covering Candelaria, Catbalogan, Cebu, Cebu Channel, EEZ-West Philippine Sea, Pag-asa Island, Patag/Lawak Island, Manila North Harbor, Manila South Harbor, and Moro Gulf
- ◆ Performance of preventive and corrective maintenance on 4 survey vessels and land-based systems
- ◆ Responded to 364 client requests for data/service provision

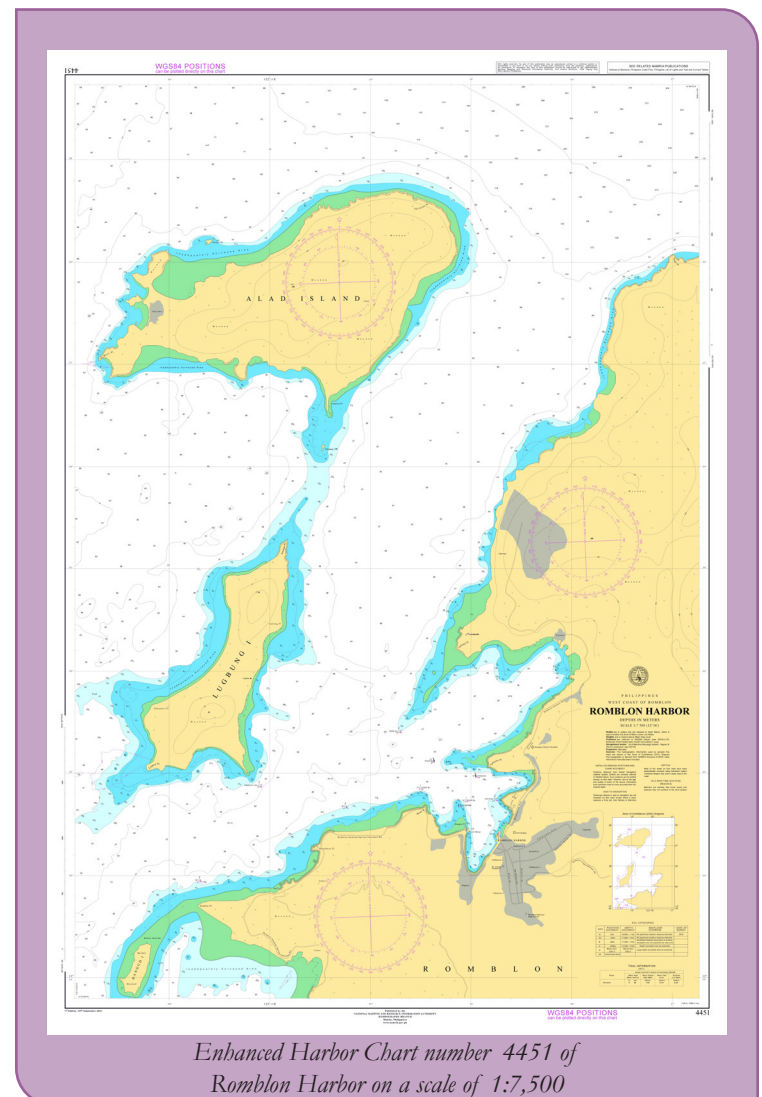


*Hydrographic survey smooth sheet of Sorsogon Bay Approaches and Ports on a scale of 1:30,000*



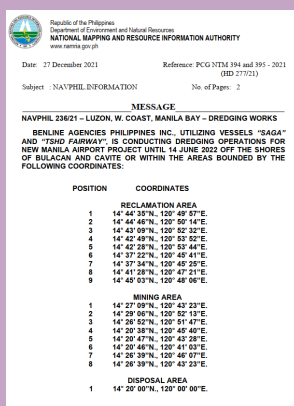
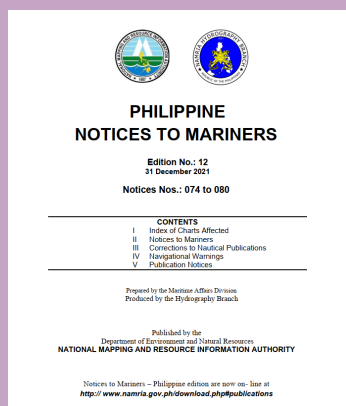
## Nautical Charting

- ◆ Compiled and enhanced the following charts:
  - 8 harbor charts: Borongan, Catbalogan, Culion, Danao, Lamac, Palompon, Romblon, and Tilik
  - 2 approach charts: Casiguran Sound (update); and Corregidor Island and Approaches
- ◆ Updated the following:
  - 13 Coastal Charts with numbers 1502, 1517, 1524, 1525, 1526, 1527, 1534, 1543, 1547, 1553, 1554, 1555, and 1564
  - 1 EEZ chart: chart no. 4791B covering Sulu Sea to Molucca Sea
  - 2 general sailing charts: chart numbers 5017 (covering Davao Gulf to the Philippine Sea) and 5010 (covering Sulu Archipelago)
  - 22 master charts: 1501, 1502, 1518, 1519, 1543, 1544, 1547, 1554, 1556, 1560, 1561, 1564, 4250, 4278, 4282, 4329, 4344, 4358, 4360, 4441, 4445, and 4451
- ◆ Performed data compilation and updating of 10 ENCs covering Baran Island to Bashi Channel, Cabauna Island to Gamay Bay, Canino Island to Catanduanes, Lamon Bay, Loon, Palompon, Port of Sual, Romblon, Roxas, and Tarigtig Point to Dicapanisan Point
- ◆ Manually corrected 900 printed nautical charts based on feedback from issued *Notice to Mariners* and other information
- ◆ Reviewed and performed quality control of 26 paper nautical charts
- ◆ Reviewed and performed quality control of 15 paper nautical charts to prepare a Master Chart
- ◆ Printed 6,000 nautical charts

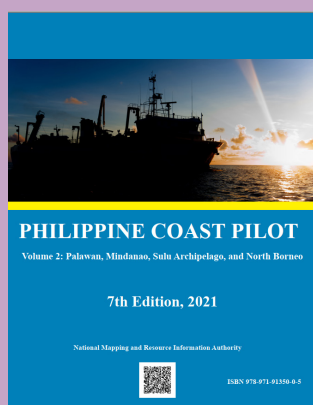


## Delineation of Maritime Zones and Production of Nautical Publications

- ◆ Published 12 editions of *Philippine Notices to Mariners* and 234 *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 2022 edition of *Philippine List of Lights*
- ◆ Published the 7<sup>th</sup> Edition, Volume 2 of *Philippine Coast Pilot* book packaged in compact disk form
- ◆ Provided Certification of Municipal Water Maps of LGUs showing 24 municipal waters boundary and 48 10.1km limit
- ◆ Provided 80 LGUs, National Government Agencies, and other stakeholders with technical assistance on the delineation of municipal waters
- ◆ Compiled and databased internal waters maps and related data
- ◆ Conducted field surveys in Cagayan, Cavite, Davao, Ilocos Norte, and Ilocos Sur for the updating of nautical publications



*Maritime publications (a sample navigational warning is included in this spread)*





### Physical Oceanographic Surveys

- ◆ Maintained 47 tide stations located all over the Philippines
- ◆ Established 7 new tide stations in Baybay, Leyte; Buenavista, Guimaras; Hinoba-an, Negros Occidental; Liloy, Zamboanga del Norte; Masinloc, Zambales; Naval, Biliran; and Roxas City, Capiz;
- ◆ Acquired various physical oceanographic data (sea level measurement, tidal data, temperature, density, and salinity) from 48 tide stations
- ◆ Downloaded/retrieved and processed monthly datasets
- ◆ Prepared and printed 2,000 copies of the 2022 *Tide and Current Tables*
- ◆ Updated tidal information on 48 nautical charts
- ◆ Responded to 82 client requests for oceanographic information



*Establishment /  
Construction of  
Liloy Tide Station in  
Zamboanga del Norte*



## Resource Mapping and Assessment

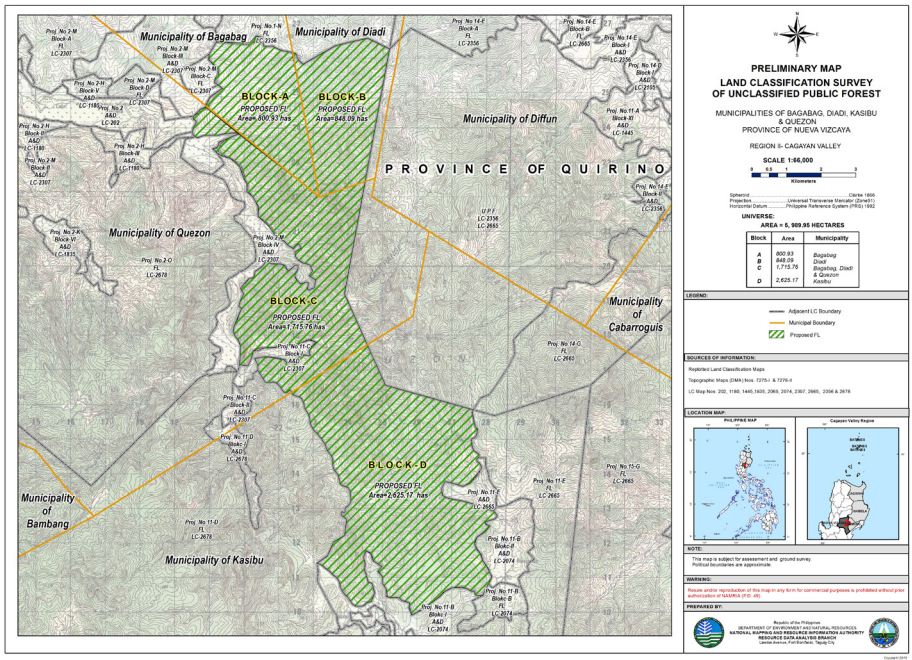
**N**AMRIA conducts nationwide resource mapping and assessment of various thematic geospatial information on land cover, coastal resources, low-lying areas vulnerable to sea-level rise, and upland/forestland population including validation of protected areas and other ENR datasets among others. The fundamental 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. In addition, the agency continues to provide information on the classification of lands of the public domain. 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

- ◆ Completed 8 Preliminary Land Classification maps of Unclassified Public Forests (UPFs) covering the various municipalities in Aklan, Camarines Norte, Camarines Sur, Misamis Oriental, Nueva Ecija, Nueva Vizcaya, Quezon, and Sarangani
- ◆ Continued to survey and classify the remaining UPFs as part of NAMRIA's mandate and compliance to the 1987 Constitution

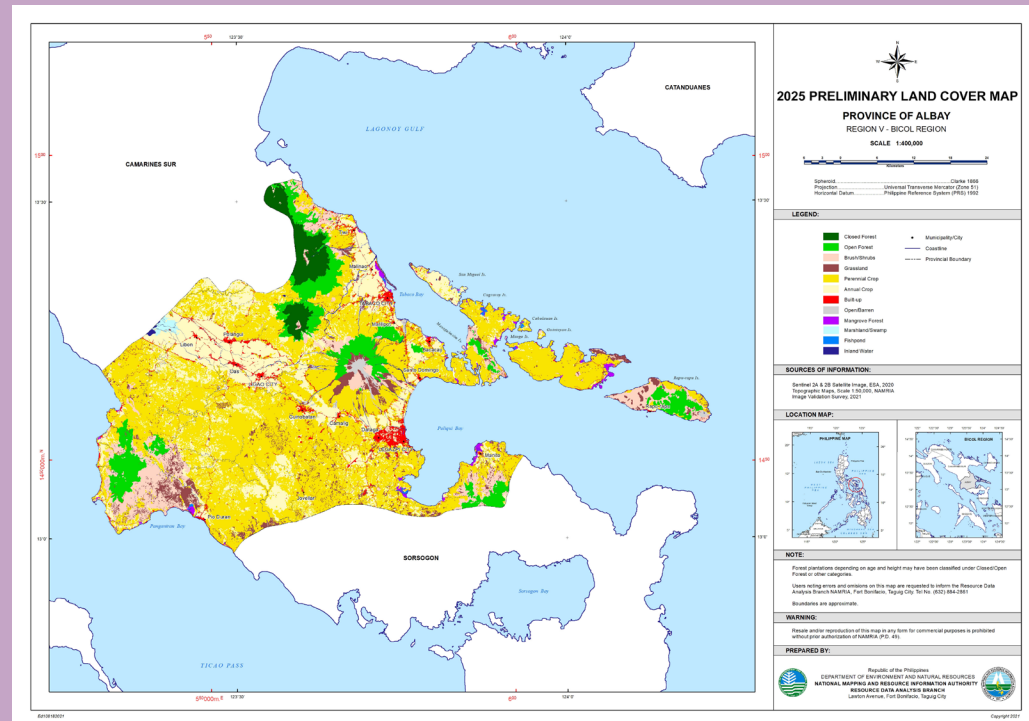


## Land Cover Mapping

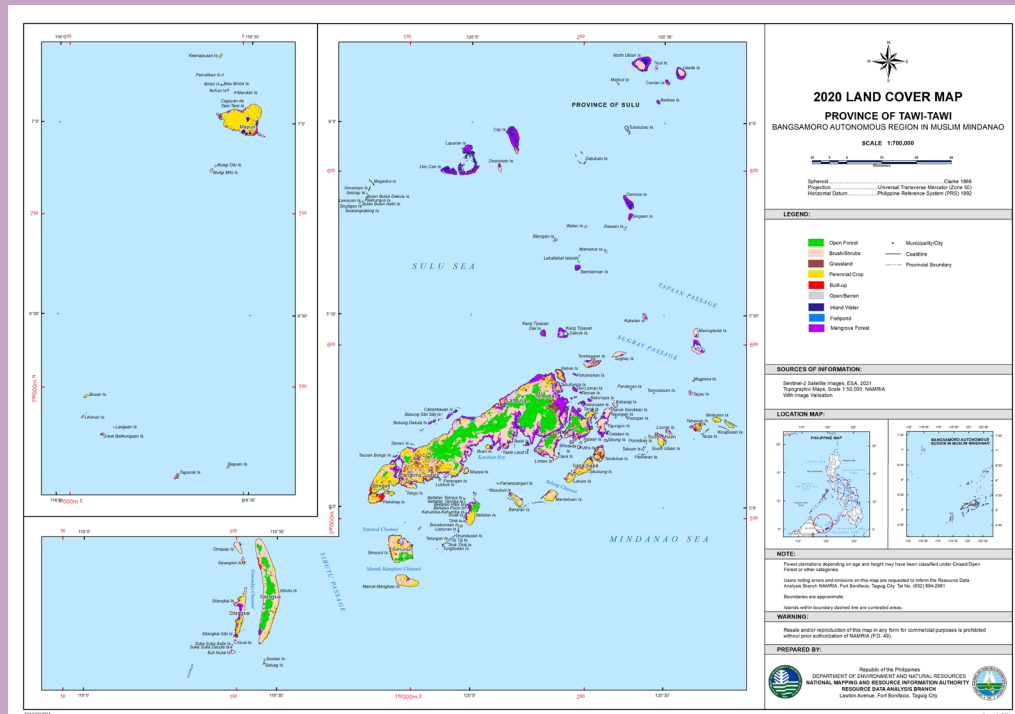
- ◆ Produced 18 preliminary land cover maps covering covering Albay, Basilan, Camarines Norte, Camarines Sur, Catanduanes, Ilocos Norte, Ilocos Sur, Isabela, La Union, Lanao

del Sur, Maguindanao, Masbate, Nueva Vizcaya, Pangasinan, Quirino, Sorsogon, Sulu, and Tawi-tawi

*2025 preliminary land cover map of the province of Albay on a scale of 1:400,000*



*2020 land cover map of the province of Tawi-tawi on a scale of 1:700,000*

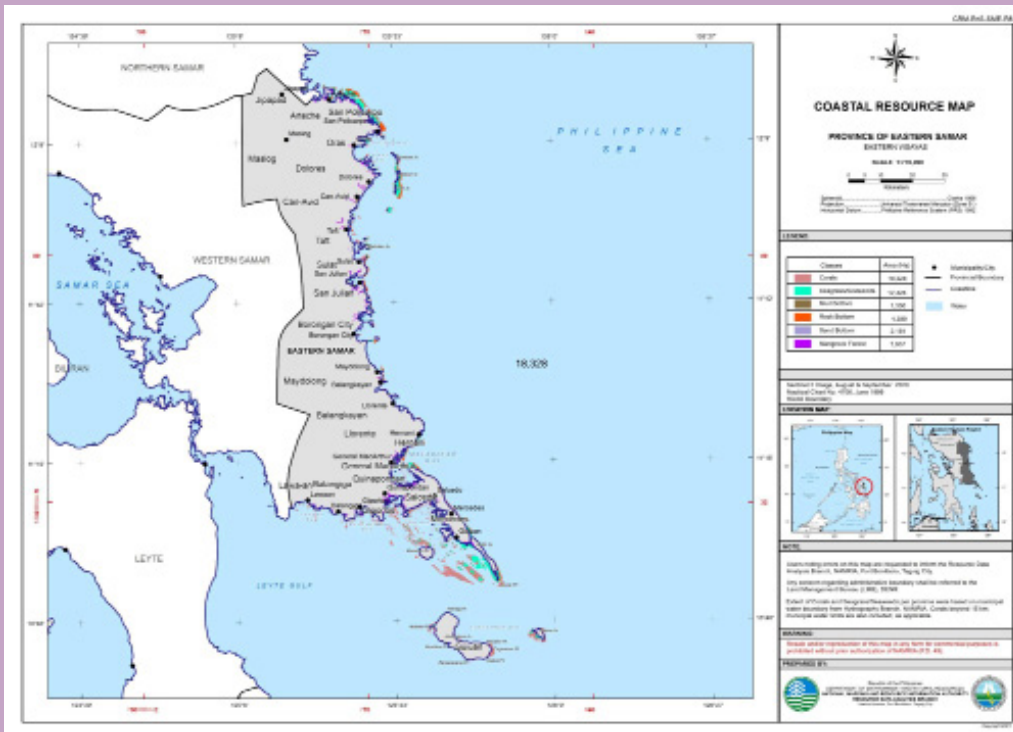




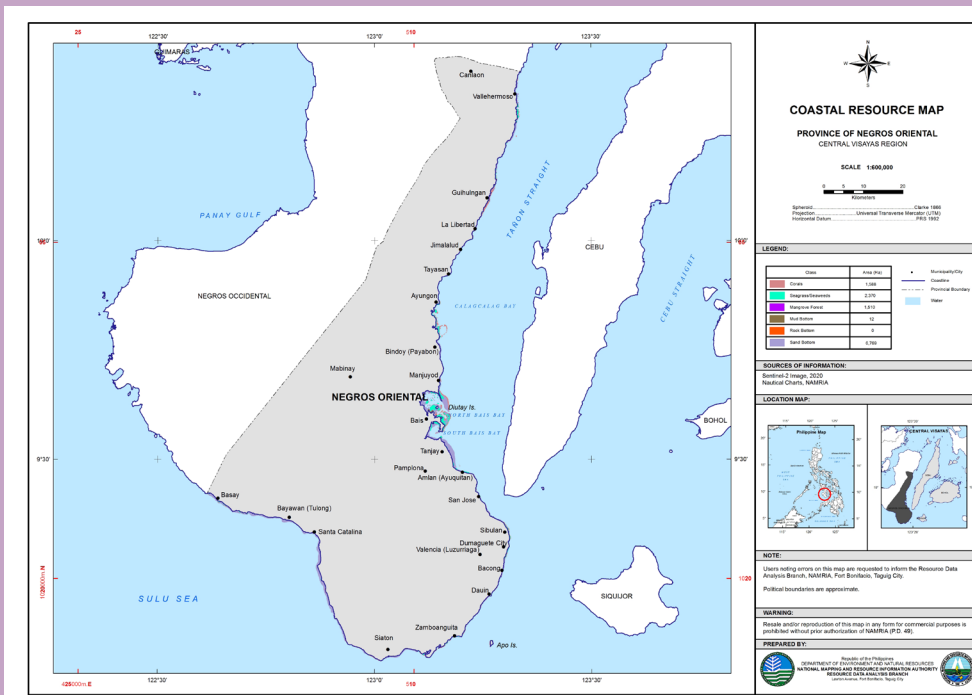
## Coastal Resource Mapping and Assessment

- ◆ Produced 12 coastal resource preliminary provincial maps covering Basilan (including the City of Isabela), Davao del Norte, Eastern Samar, Lanao del Sur, Negros Oriental,

Palawan, Southern Leyte, Sultan Kudarat, Sulu, Surigao del Norte, Surigao del Sur, and Western Samar



*Coastal resource map of the province of Eastern Samar on a scale of 1:770,000*

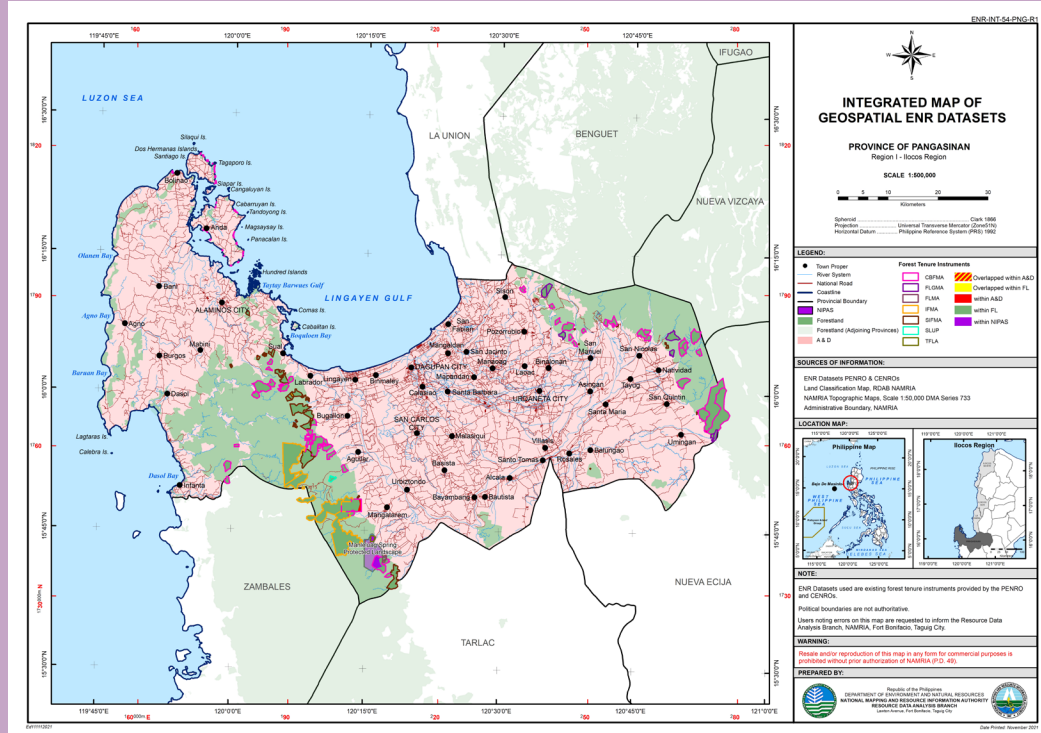
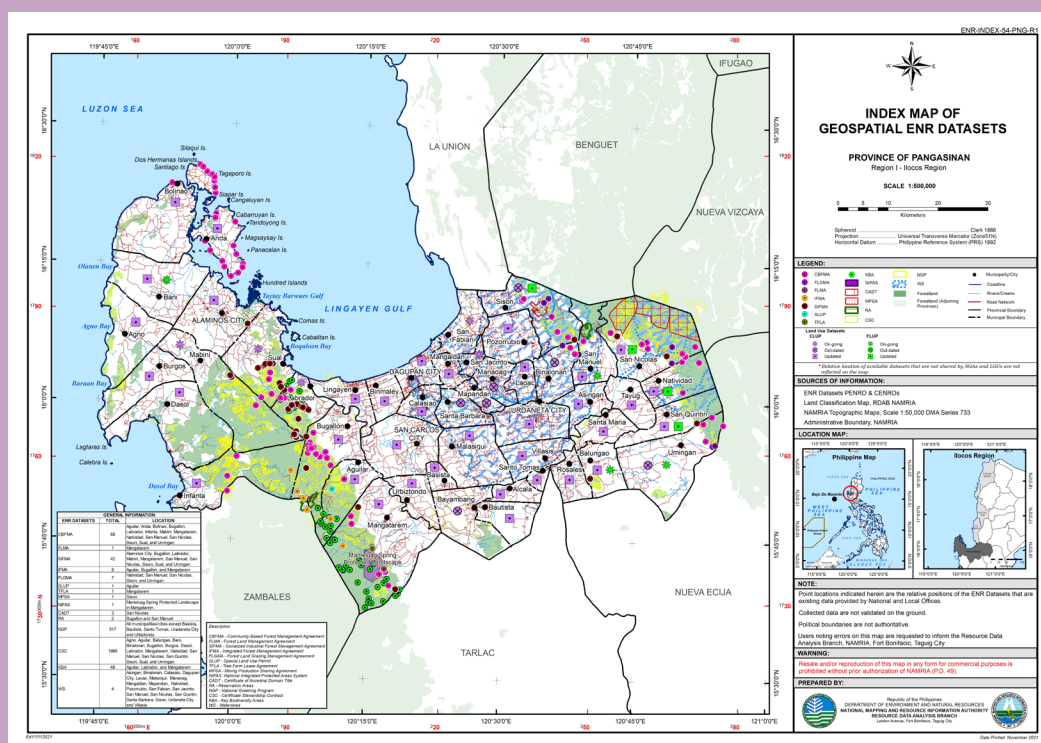


*Coastal resource map of the province of Negros Oriental on a scale of 1:600,000*

## ENR Data Integration

- ◆ Produced 10 provincial ENR maps covering  
Abra, Albay, Bataan, Benguet, Camarines

Sur, Ilocos Norte, Ilocos Sur, La Union,  
Pangasinan, and Zambales



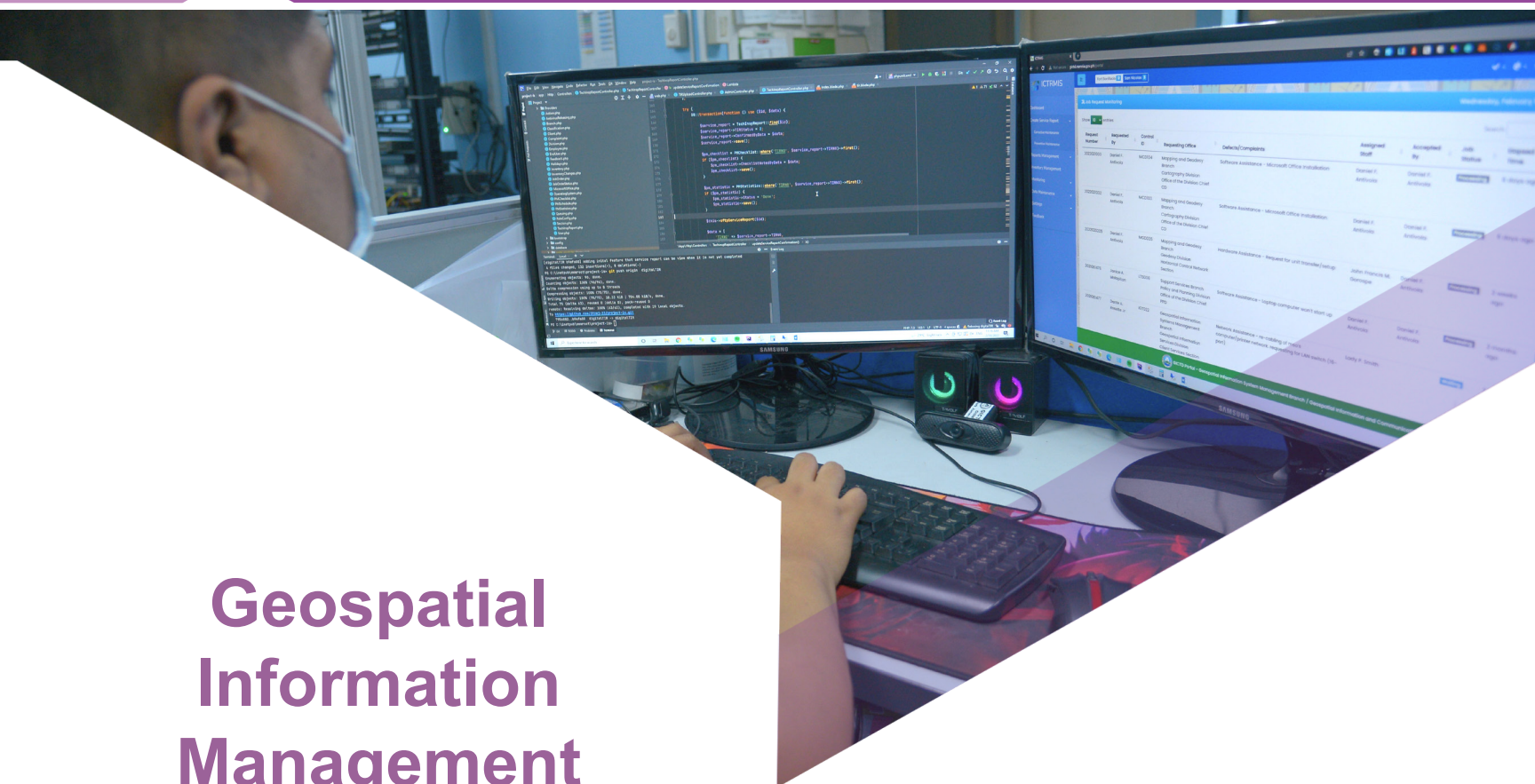
Index map of geospatial ENR datasets (top) and integrated map of geospatial ENR datasets (bottom) of the province of Pangasinan both on a scale of 1:500,000





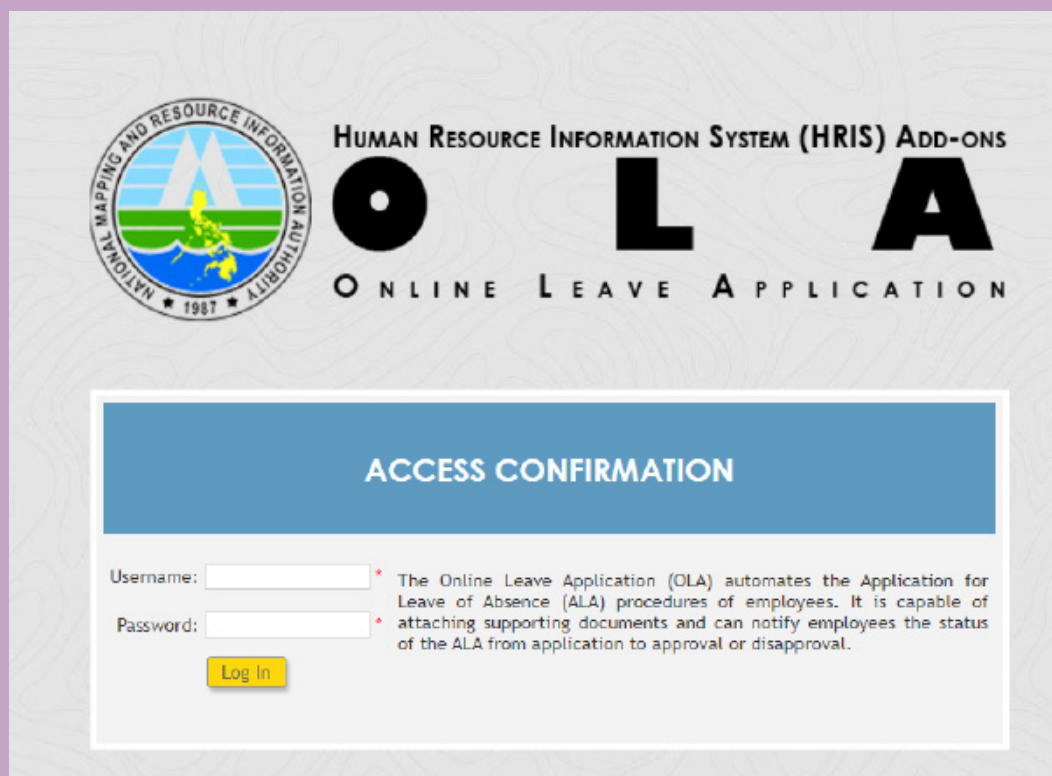
## Geospatial Information Management

**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.



## Information Systems Development and Maintenance

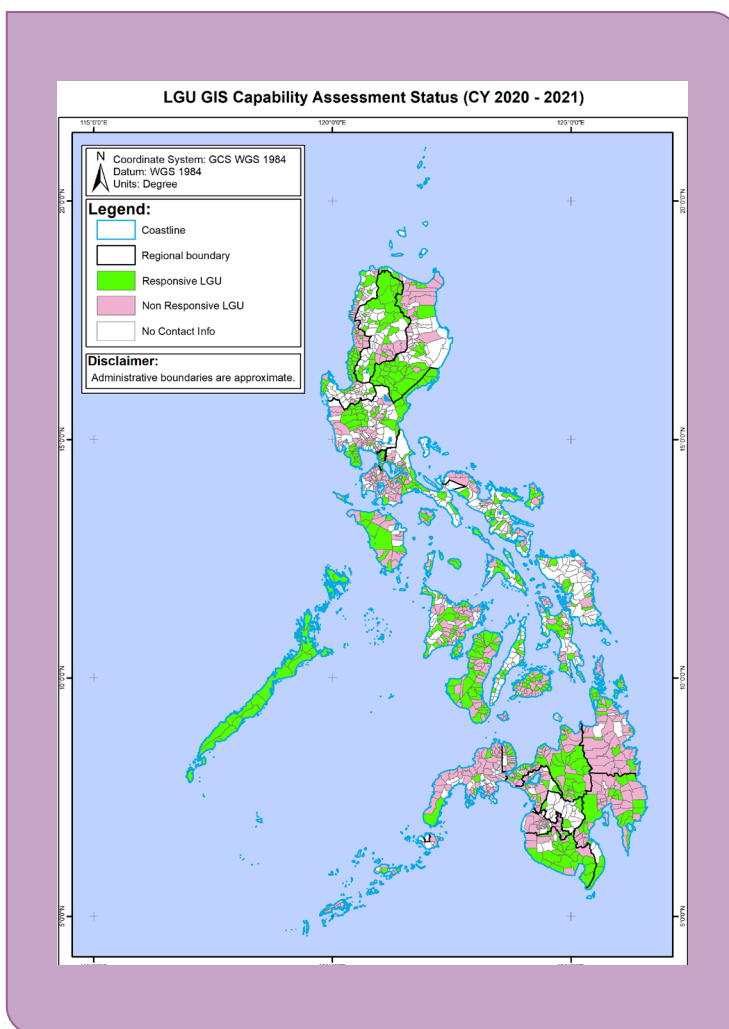
- ◆ Developed the following systems for operational support:
  - ONE Information System (ONE IS) – A system for the online management and reporting of the Organization of NAMRIA Employees (ONE) member's loan, contribution, and financial position
  - Human Resource Information System (HRIS) Add-On: Online Leave Application (OLA) – A module for the online application and approval of leave of absence of employees
  - Online Ordering System – A system that facilitates the browsing and ordering of available NAMRIA Products and Services
- ◆ Developed the following system for geospatial support:
  - Geoportal Philippines (GP): Enhanced Disaster Risk Reduction and Management Map App – An application that displays layers and relevant information on known natural and man-made hazards, as well as government provisions for disaster risk reduction
- ◆ Maintained 33 systems and continued to update NAMRIA's website content



*Screenshot of OLA*

## Geospatial Database Development and Maintenance

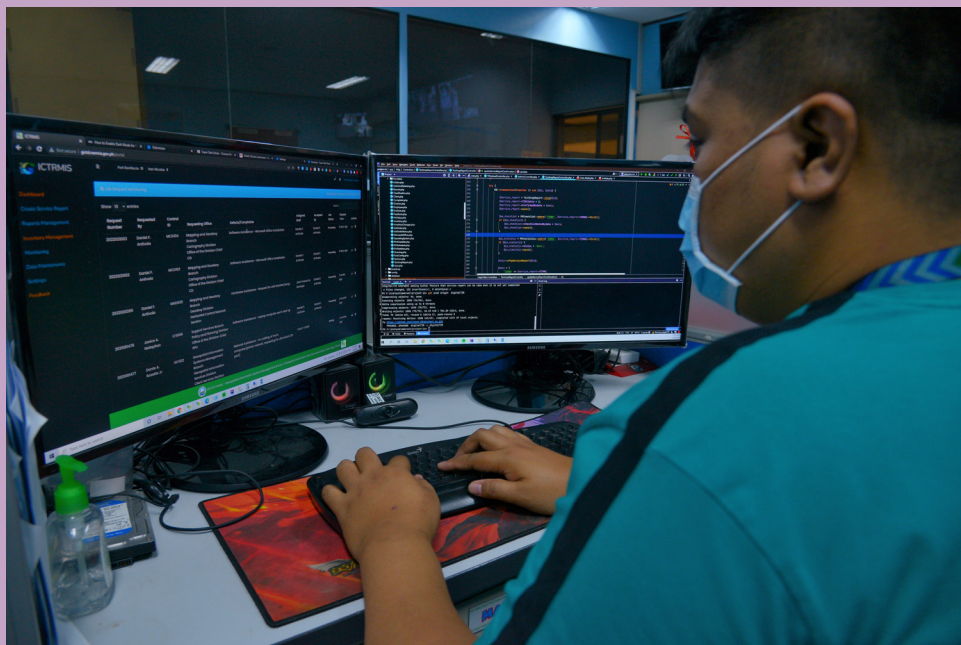
- ◆ Completed final database design documents for HRIS Add-on: Learning and Development (L&D) Nomination List Generator, HRIS Add-on: OLA, and ONE IS
- ◆ Updated and maintained 6 databases, namely: NAMRIA Products and Services Information System, Property Acknowledgement and Receipt Management System, Gender and Development Information System, NAMRIA Provident Fund Information System, NAMRIA Geospatial Information System (NGIMS), and GP
- ◆ Created 1,060 maps on COVID-19 case information disaggregated geospatially by region, province, and city/municipality; and 365 maps of licensed COVID-19 Testing Laboratories nationwide
- ◆ Prepared 2 research and analysis reports to determine the need for enhancement in the database structure or schema of 5 existing geospatial databases namely: Environment and Natural Resources Management Information System, GP, Maritime Information System, NGIMS, and Topographic Mapping Information System
- ◆ Backed up NAMRIA operations support geospatial databases and maintained GIS software
- ◆ Provided resource persons for the NAMRIA GTC GIS training programs
- ◆ Prepared 2 research and analysis reports based on the result of LGU GIS Capability Assessment





### Information and Communications Technology (ICT) Resource Management

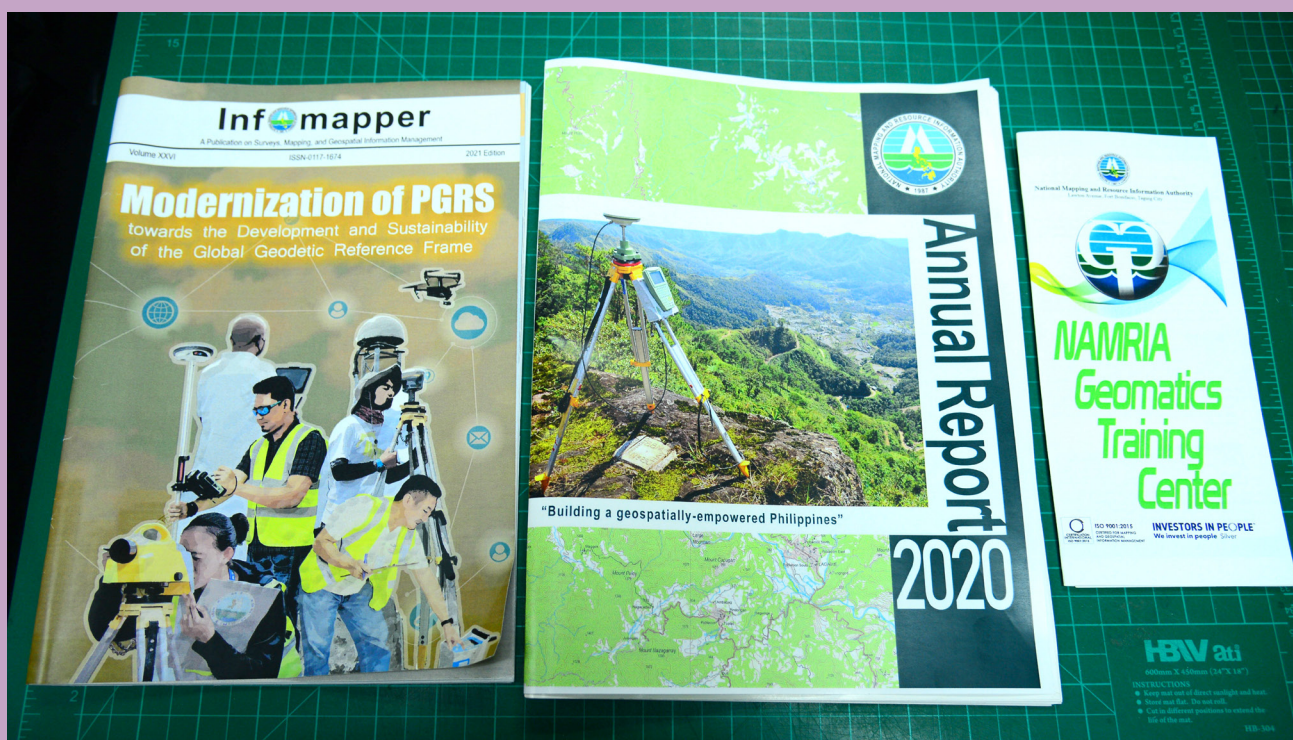
- ◆ Performed preventive and corrective maintenance for 556 computer systems
- ◆ Maintained 1 system network at 99.54% operational capacity
- ◆ Concluded 1 Technology Case Study for NAMRIA Deployment and Utilization
- ◆ Maintained 1 ICT Resource Management Information System (ICTRMIS)



*Corrective maintenance is done for NAMRIA's network/data center.*

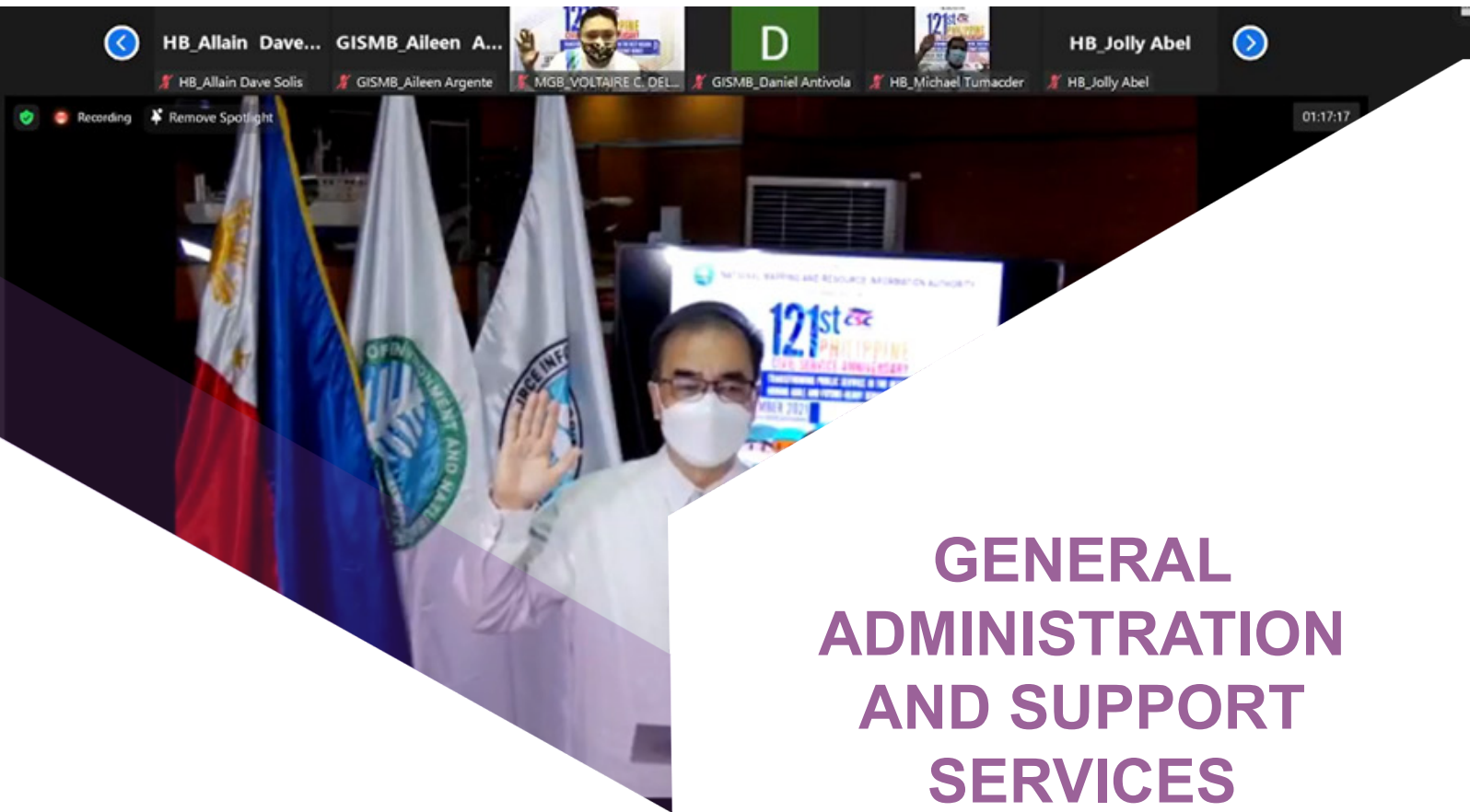
### Geographic Information Services and Production of NAMRIA IEC Materials

- ◆ Prepared and printed the NAMRIA Fiscal Year (FY) 2020 Annual Report and Infomapper Volume XXVI
- ◆ Published 43 NAMRIA Newscoops
- ◆ Packaged 1 institutional advertisement and posted it on NAMRIA's Facebook page
- ◆ Prepared GTC Brochure
- ◆ Conducted 4 IEC campaigns; 3 virtual tour of facilities; and 2 map and technology exhibits
- ◆ Served requests for 16 photo and 21 video documentation of CY 2021 agency events
- ◆ Conducted 31 regular/Memorandum of Agreement (MOA)-based trainings on Basic/Advanced GIS and Remote Sensing online and renewal of the Professional Regulation Commission accreditation for the NAMRIA GTC; and submitted the 2020 NAMRIA GTC Training Report
- ◆ Served a total of 9,675 clients through phone-in, walk-in, Short Message Service, and via online (email and FB) queries and submitted an updated concept paper on e-commerce
- ◆ Prepared 4 quarterly 2021 Client Satisfaction Reports, 2020 Client Satisfaction Report, 2020 Product Evaluation Report
- ◆ Submitted 12 monthly sales reports, 2020 Map Sales Office (MSO) Sales Report, and two MSO inventory reports



*NAMRIA IEC materials published in 2021*





## GENERAL ADMINISTRATION AND SUPPORT SERVICES

**G**eneral Administration and Support Services (GASS) 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, 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 able 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. GASS programs are aligned and supportive of NAMRIA's strategic initiatives, ensuring efficient utilization of financial resources, providing a sufficient pool of competent human resources, and sustaining the functional capacity of equipment and facilities; thus, enhancing organizational capacity.

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



*NAMRIA inks MOA with the Dangerous Drugs Board to strengthen NAMRIA's campaign against illegal drugs.*

### Organizational Performance Management

- ◆ Accomplished the following for the period:
  - Assessed Fiscal Year 2022 Project Folders
  - Prepared the 2022 agency budget proposal and the summary of budget proposal
  - Accomplished the Online Submission of Budget Proposal
  - Presented documents to the technical budget hearing on Tier-2 budget proposals
  - Conducted online survey for Organizational Assessment and Focus Group Discussion with the Institute for Solidarity Asia for the 2021-2028 NAMRIA Strategic Plan (SP); Memorandum Circular number 345, series of 2021 was approved for the adoption and implementation of the NAMRIA SP
  - Submitted agency physical and financial accomplishment reports to oversight agencies
  - Reviewed/finalized the Quality Management Operations Manual (QMOM) on various operational and support processes
  - Updated the Transparency Seal's monthly and quarterly requirements
  - Conducted field project inspections at different project sites in the country



## Administrative Support

- ◆ Strategic Human Resource Management
  - On Recruitment, Selection, and Placement:
    - Prepared FY 2021 Recruitment Plan
    - 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
    - Piloted the Performance Management and Competency Framework
  - On L&D:
    - Submitted for approval a process for QMOM
    - Submitted, for approval, L&D Plan and Training Calendar
    - Implemented 17 L&D activities (in-house and outsourced, both virtual)
  - On Rewards and Recognition:
    - Reviewed the Program on Awards and Incentives for Service Excellence Guidelines
  - On Human Resource Information System Management (HRISM):
    - Updated 3 HR databases monthly for HRIS, L&D Management System, and Personal Service Itemization and Plantilla of Personnel
  - On Morale and Welfare:
    - Approved QMOM on compensation and benefits process
    - Processed compensation and benefit documents
- ◆ On Acquisition and Management of Goods:
  - 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, and consolidated Monthly Inventory and Inspection Report

- ◆ On Records Management:
  - Received and processed internal and external documents; compiled 2020 Report of Branch Annual Records Inventory and Appraisal; and 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, 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



*NAMRIA conducts virtual retirement tribute activities for its employees*

## Engineering Services

- ◆ Maintained and repaired buildings, appurtenances, power stations, grounds, and air conditioning/plumbing facilities
- ◆ Performed preventive maintenance for 64 technical equipment and 201 communications equipment
- ◆ Performed 264 preventive and 96 corrective maintenance for NAMRIA vehicles
- ◆ Served the transportation needs of officials and employees



*Corrective maintenance is done for NAMRIA vehicles.*





## 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 4 activities under the 2021 Women's Month Celebration
- ◆ Formulated policies on solo parents and violence against women and children
- ◆ Maintained 2 lactation stations and the NAMRIA Day Care Center
- ◆ Trained 1 GFPS personnel for GAD Resource Pool



*Top: Women's Month Exhibit*

*Bottom: 20th NAMRIA Day Care Center Virtual Moving Up Ceremony*





# NAMRIA

## ORGANIZATIONAL CHART



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



**EFREN P. CARANDANG**  
Deputy Administrator



**JOHN SANTIAGO F. FABIC**  
Deputy Administrator



**ROWENA E. BONGALOS**  
Chief of Staff



**CONCEPCION A. BRINGAS**  
Office in Charge  
Director  
Support Services Branch



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



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



**OFELIA T. CASTRO**  
Officer in Charge  
Director  
Resource Data Analysis  
Branch



**FEBRINA E. DAMASO**  
Officer in Charge  
Director  
Geospatial Information  
System Management Branch



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



**Cdr. JOSE T. AREVALO JR.**  
Officer in Charge  
Assistant Director  
Hydrography Branch



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



**FEDERICO D. MACARAEG**  
Assistant Director  
Resource Data Analysis  
Branch



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



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



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



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



**VIRGILIO N. PANGA**  
Officer in Charge  
Engineering Services  
Division



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



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



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



**Cdr. JOSE T. AREVALO JR.**  
Officer in Charge  
Survey Support Division



**RONALDO C. GATCHALIAN**  
Chief  
Geodesy Division



**NICANDRO P. PARAYNO**  
Chief  
Photogrammetry  
Division



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



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



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



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



**VIOLETA A. QUILIZA**  
Chief  
Geospatial Integration  
Division



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



**JOSELITO T. REASOL**  
Chief  
Geospatial Database  
Management Division



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



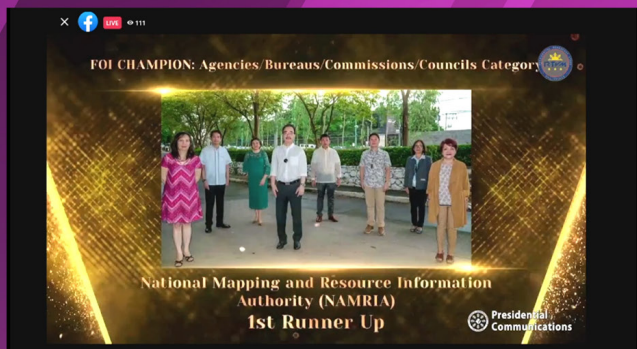
**MAGELLAN C. AZUCENA**  
Chief  
Geospatial Information  
and Communications  
Technology Division



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



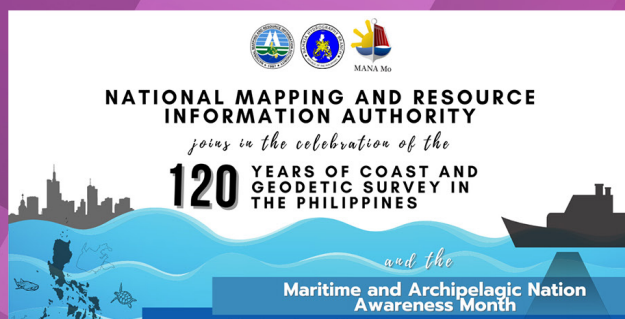
# Highlights from



NAMRIA receives first runner-up award under the FOI Champion for Agencies/Bureaus/Commissions/Councils category



Oath-taking ceremony held in NAMRIA for 121st Philippine Civil Service Anniversary



NAMRIA celebrates MANA Mo 2021 and 120th year of Philippine Coast and Geodetic Survey



Innovation in a crisis: NAMRIA best practices during



NAMRIA awarded We invest in people Silver accreditation



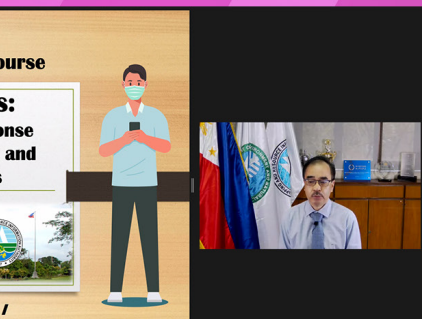
# in the Year 2021



NAMRIA marks its 34th Anniversary with a virtual program



NAMRIA observes National Disaster Resilience Month through webinar on earthquake resiliency



NAMRIA shares COVID-19 response during 14th IIPConcours



NAMRIA heeds the call of Hospicio de San Jose for donations



NAMRIA is ISO recertified for another 3 years

# Financial Report

## STATEMENT OF FINANCIAL POSITION ALL FUNDS AS OF DECEMBER 31, 2021

	<u>2021</u>	<u>2020</u>
<b>ASSETS</b>		
<b>Current Assets</b>		
Cash and Cash Equivalents	17,162,288.91	13,738,560.57
Receivables	2,042,880.14	3,814,913.93
Inventories	121,792,715.23	83,562,000.20
Other Current Assets	19,718,178.01	37,112,107.59
<b>Total Current Assets</b>	<u>160,716,062.29</u>	<u>138,227,582.29</u>
<b>Non-Current Assets</b>		
Property, Plant and Equipment	1,234,863,554.70	1,397,339,063.14
Intangible Assets	1,064,463,251.58	1,096,125,789.83
Other Non-Current Asset		
<b>Total Non-Current Assets</b>	<u>2,299,326,806.28</u>	<u>2,493,464,852.97</u>
<b>Total Assets</b>	<u>2,460,042,868.57</u>	<u>2,631,692,435.26</u>

## LIABILITIES

<b>Current Liabilities</b>		
Financial Liabilities	298,099,240.93	45,614,069.63
Inter-Agency Payables	29,516,789.29	38,556,625.97
Due to Operating Units	15,418,926.17	8,379,564.87
Other Payables	4,192,694.11	681,391.20
<b>Total Current Liabilities</b>	<u>347,227,650.50</u>	<u>93,231,651.67</u>
<b>Non-Current Liabilities</b>		
Financial Liabilities	219,182.35	219,182.35
<b>Total Non-Current Liabilities</b>	<u>219,182.35</u>	<u>219,182.35</u>
<b>Total Liabilities</b>	<u>347,446,832.85</u>	<u>93,450,834.02</u>

## Net Assets/Equity

Accumulated Surplus/(Deficit)	2,112,596,035.72	2,538,241,601.24
<b>Total Net Assets/Equity</b>	<u>2,112,596,035.72</u>	<u>2,538,241,601.24</u>

<b>TOTAL LIABILITIES AND NET ASSETS/EQUITY</b>	<u>2,460,042,868.57</u>	<u>2,631,692,435.26</u>
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# Map Sales Offices

Providing Maps, Nautical Charts, and other NAMRIA Products

REGION	ADDRESS	MSO STAFF	PHONE/FAX
(Main) Taguig City	Lawton Avenue Fort Andres Bonifacio	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 5467 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 9498 (02) 8241 3495 local 117 0966 8523814 0921 3627524
Quezon City	DENR-FMB 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 2038041
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	Room 301, Osmeña Building II, Osmeña Boulevard, 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 8928777 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	Jeanlyuz 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 31 December 2021





## NAMRIA QUALITY POLICY

We at NAMRIA are committed to our clients' utmost satisfaction by providing quality geospatial information and services.

We will uphold professional and ethical standards, ensure efficient utilization of resources, empower ourselves to continually improve the quality management system, and respond to the needs of changing times through world-class technology.



[www.namria.gov.ph](http://www.namria.gov.ph)

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

**INVESTORS IN PEOPLE™**  
We invest in people **SILVERPASTE**









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

**[www.namria.gov.ph](http://www.namria.gov.ph)**