



# ANNUAL REPORT 2019

"Building a geospatially-empowered Philippines"

PHILIPPINE RISE







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# ADMINISTRATOR'S REPORT

**A**chieving excellence and work-life balance define NAMRIA's performance in the year 2019. Central to the agency's mandate is its provision of quality service to the people, as shown in its accomplishments. As the central mapping agency of the government, NAMRIA continually improves its quality management system to fulfill its mission of providing *quality topographic maps, nautical charts, and other geospatial products and services in a timely and coordinated manner*.

The agency carried out its programs and projects based on its major functions, namely, (1) Topographic Mapping; (2) Hydrography, Physical Oceanography, and Nautical Charting; (3) Geodetic Reference System Development; (4) Environment and Natural Resource Mapping; (5) Geospatial Information Management and Services; and (6) General Administration and Support Services. NAMRIA also implemented activities for special and locally-funded projects, namely, Bathymetric Survey of Manila Bay, NAMRIA Geospatial Data Infrastructure (NGDI) Project, and Philippine Health Atlas Project Phase IV.

In August, NAMRIA led the Philippine Delegation to the Ninth Session of the United Nations Committee of Experts on Global Geospatial Information Management (UNGIM) held at the UN Headquarters in New York. As Co-Chair of the Working Group on Disasters, the agency introduced the biennium report (2018-2019) and cited the country's efforts to raise awareness on the Strategic Framework on Geospatial Information and Services for Disasters. The agency also continued to provide support

as member of the UN Group of Experts on Geographic Names Asia South East Division (UNGEGN-ASED) and the International Hydrographic Office.

In its efforts to modernize the Philippine Geodetic Reference System, NAMRIA spearheaded the first ever *Pambansang INisyatiba ng mga Agrimensor para sa Sabayang GNSS* Campaign in June. This is a nationwide and synchronized observation of passive geodetic control points using Global Navigation Satellite System equipment. The agency also continued to promote the use of the Philippine Active Geodetic Network (PAGeNet) for the surveying and research activities of the government and the private sector.

In environment and natural resource mapping, NAMRIA provided technical assistance in the final mapping and preparation of draft house bills fixing the final forest limits of the country, including those areas under the National Integrated Protected Area System (NIPAS). A series of consultations and training workshops were conducted to enhance the knowledge and skills of stakeholders on basic remote sensing and related mapping activities, including mapping of Safe Open Spaces and Critical Lifelines and Facilities for Earthquake Resiliency in Greater Metro Manila Area.

As hydrographic surveying remains one of its main priorities, the agency actively participated in the activities of the National Task Force for the West Philippine Sea. The survey vessel *Barako ng Republika ng Pilipinas* or BRP HYDROGRAPHER PRESBITERO conducted hydrographic



surveys in the vicinity of *Pag-Asa* and *Likas* Islands in May. The collected oceanographic and bathymetric data will be used to update the nautical charts and publications to ensure safety of navigation in the *Kalayaan* Island Group.

NAMRIA's objectives for efficiency led to its continued certification to ISO 9001:2015 standard on Quality Management System for Mapping and Geospatial Information Management, after passing a rigorous two-day surveillance audit in August. The agency also maintained its Investors in People (IIP) accreditation for international standards on good people management practices. It hopes to achieve a higher IIP accreditation award level in the coming years.

NAMRIA also invested in a wide array of learning and development activities such as the yearly cascading of updates on human resource (HR) policies and programs, and the training on geographic information systems for government agencies, local government units, the academe, private individuals, and corporations. They keep employees and the clientele abreast with changing geospatial trends and technologies.

The agency also joined the country in celebrating various international and national events, such as the National Women's Month Celebration, Philippine Civil Service Anniversary, World Hydrography Day, Climate Change Consciousness Week, and the 18-Day Campaign to End Violence against Women.

Core to NAMRIA's public service are corporate social responsibility programs. NAMRIA, through its *Bayanihang Bayan* Desk, participated in five *Brigada Eskwela* activities of the Department of Education in July, and a bloodletting activity for the indigent patients of the National Children's Hospital in December.

With its competent workforce and strengthened partnerships with stakeholders, NAMRIA will be more than ready to support the administration of President Rodrigo Roa Duterte, and the DENR led by Secretary Roy A. Cimatu. More so, the agency continues to be more proactive in responding to the needs of its constituents.

The year 2020 promises to be another busy year for NAMRIA as it implements the following major programs: conduct of nationwide hydrographic and physical oceanographic surveys, and nautical charting; provision of technical assistance in the delineation of

the country's maritime zones; production of large- and medium-scale topographic maps; development of the Philippine Gazetteer; continuation of the Unified Mapping Program; Geodetic Network Development, including the Philippine Geodetic Vertical Datum 2020; comprehensive mapping of environment and natural resources to update and integrate data on forestland, land cover, land use, and coastal resources; continuous geospatial information management activities, including database design and system development, information and communication technology, and information services; sustainability of Geoportal Philippines and the NGDI; and the implementation of HR and organizational development programs such as competency-based HR system, recruitment and placement system, strategic performance management system, strategic HR development, morale and welfare, and employee engagement.

Looking forward, NAMRIA envisions to be a center of excellence in geospatial information toward its goal of providing a holistic public service. The agency will continue to upscale its skills and competencies, strengthen networks and partnerships, and deliver globally-recognized products and services. It hopes to do even more and better as it continuously builds a geospatially-empowered Philippines.



Usec. PETER N. TIANGCO, PhD  
ADMINISTRATOR

# TOPOGRAPHIC MAPPING



**N**AMRIA produces topographic base maps at various scales, in print or digital format, for use by the national government agencies, local government units (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)

- |   |   |
|---|---|
| ◆ Enhanced 55 map sheets on a 1:10,000 scale covering Bolinao and vicinities, Pagadian City and vicinities, Vigan City and vicinities                   | ◆ Delivered and evaluated 360 orthoimages and line maps on a 1:4,000 scale, covering Metro Manila and fringe areas of Manila Bay  |
| ◆ Databased 130 map sheets covering Bolinao, Pangasinan and vicinities; Oslob, Cebu and vicinities; Vigan City and Ilocos Sur, including its vicinities | ◆ Under the Unified Mapping Project (UMP), completed feature extraction for the production of 1,500 topographic maps on a 1:10,000 scale, covering Abra, Aurora, Cavite, Kalinga, North Palawan, Northern Samar, Nueva Ecija, Pampanga, Quirino, South Cotabato, South Palawan, Sultan Kudarat, Tarlac, and Tawi-Tawi |



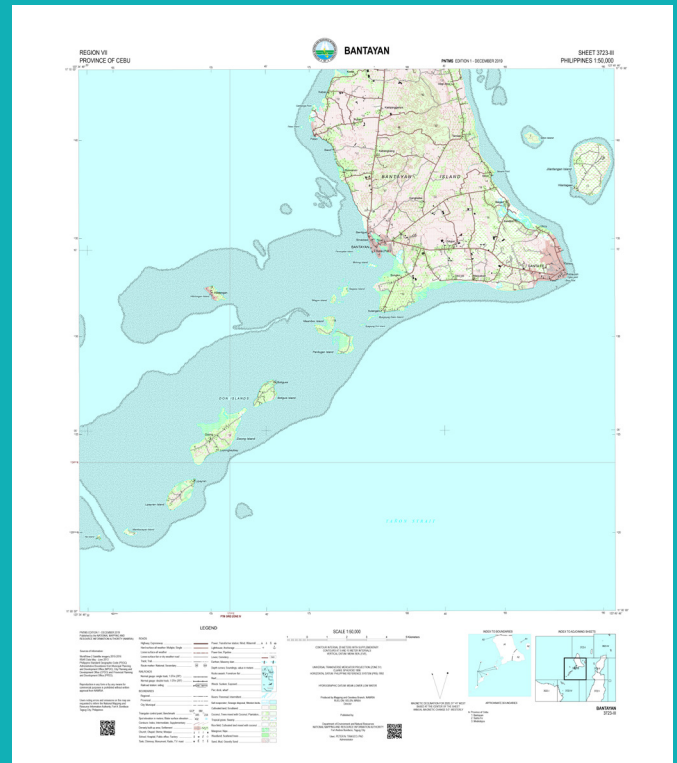
*Orthoimage map of the City of Pagadian  
in Zamboanga del Sur on a 1:10,000 scale*



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

- ◆ Completed the enhancement of 45 map sheets on a 1:50,000 scale covering Abra, Bohol, Cagayan, Cebu, Eastern Samar, Ilocos Norte, Ilocos Sur, Marinduque, Negros Occidental, Palawan, Pangasinan, Quezon, and Siquijor
- ◆ Completed 5 map sheets on a 1:250,000 scale, covering Coron, Daet, El Nido, Lucena City, and San Jose

*Cartographically enhanced topographic map of the City of Bantayan in the Province of Cebu on a 1:50,000 scale*



### Administrative/Special Mapping

- ◆ Produced 12 provincial maps covering Albay, Antique, Batangas, Cagayan, Cavite, Cebu, Misamis Oriental, Leyte, Nueva Vizcaya, Quirino, Tarlac, and Zamboanga Sibugay
- ◆ Completed the City Road Atlas Maps of Luzon islands covering 73 cities

### Printing of Maps, Charts, and Publications

- ◆ Reproduced/printed 130 sets of topographic/administrative maps and nautical charts
- ◆ Printed copies of the 2020 Tide and Current Tables, NAMRIA centennial calendar, and NAMRIA 2020 calendar and planner

# HYDROGRAPHY, PHYSICAL OCEANOGRAPHY AND NAUTICAL CHARTING

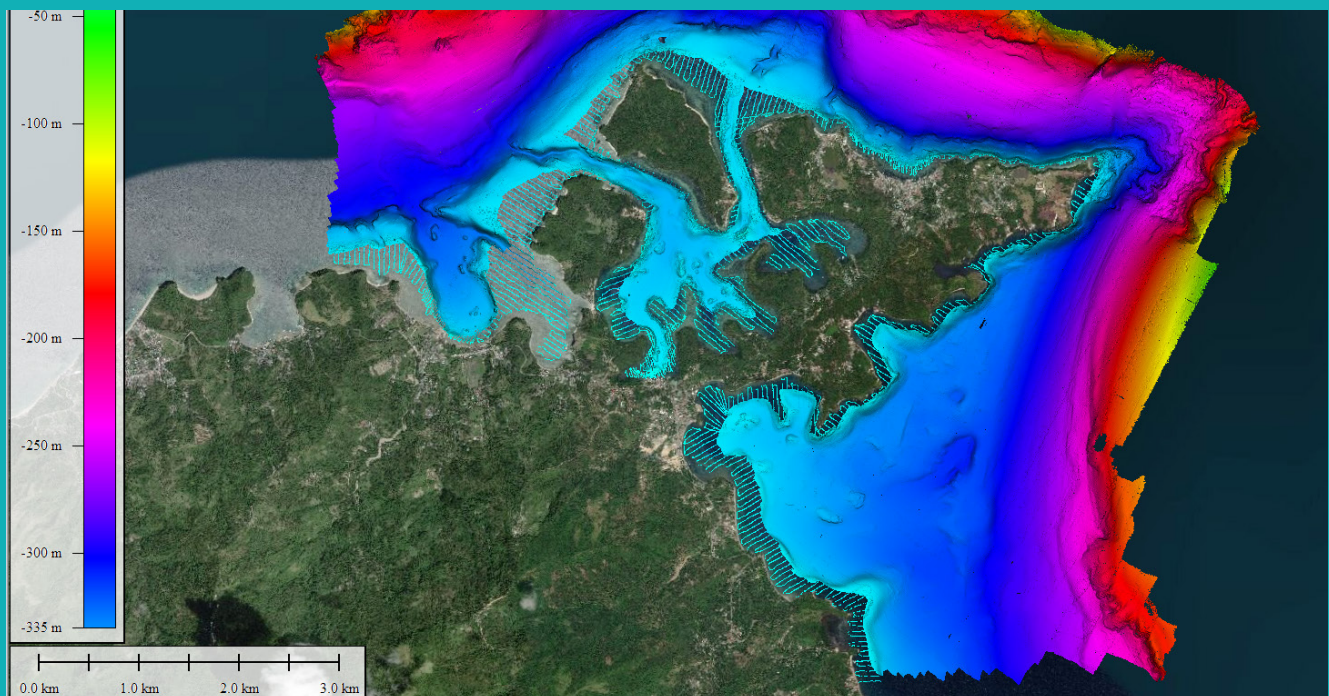


**U**nder this core function, NAMRIA conducts hydrographic and oceanographic surveys; produces nautical charts and maritime publications; and operates and maintains survey vessels, tide stations, and other related facilities. The technical data generated contribute to ensuring safety of life at sea, 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 Exclusive Economic Zone (EEZ) and in the Philippine Archipelagic Waters covering Panay Gulf and Sulu Sea
- ◆ Conducted hydrographic surveys in 8 ports and harbors, namely: Abra de Ilog, Alaminos/Dagupan, Port of Palompon, Puerto Galera, Romblon, Roxas, Sual Power Plant, and Tilik
- ◆ Performed routine preventive and corrective maintenance of 4 survey vessels, 2 rubber boats, 2 motor launches, and 4 skiffs
- ◆ Collected 12-month magnetic values at the magnetic observatory in Muntinlupa City and re-observed 18 occupied magnetic repeat stations

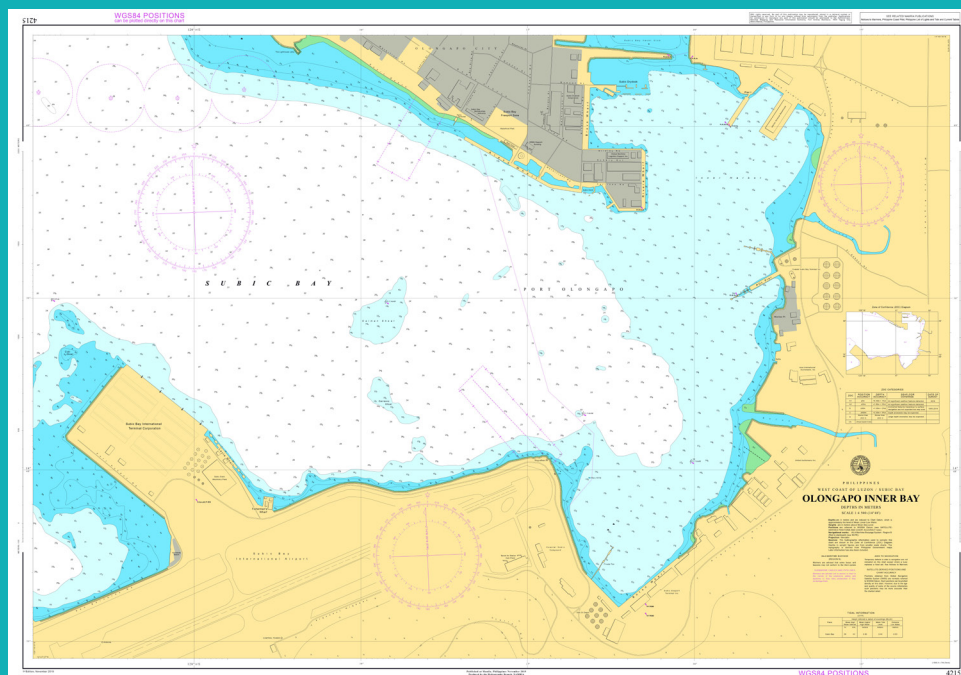


*Bathymetric data on Puerto Galera*



## Nautical Charting

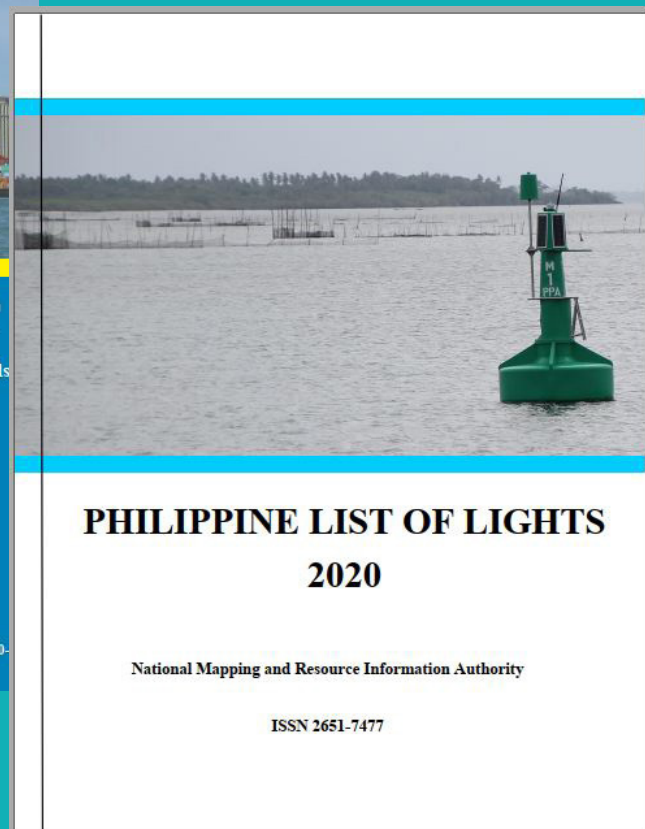
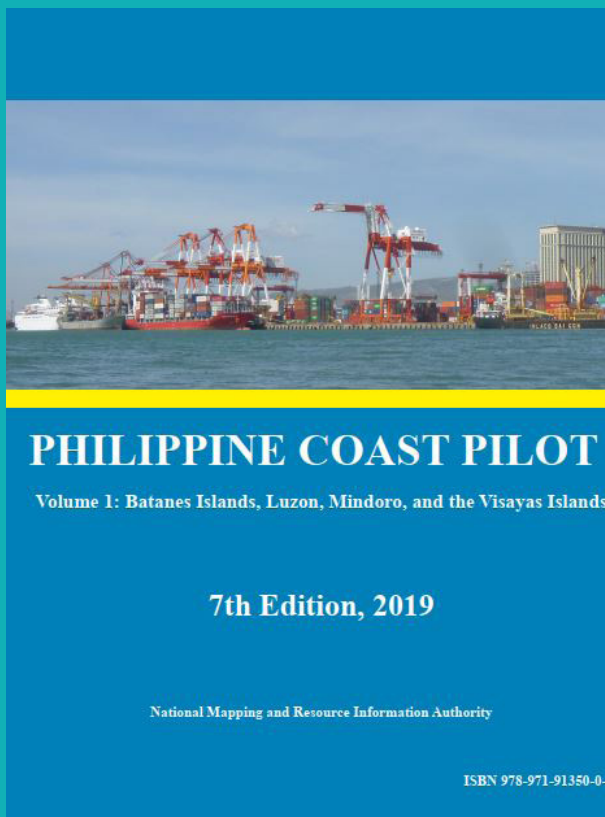
- ◆ Compiled and enhanced the following charts:
  - 8 harbor charts: Cebu Harbor, Olongapo Harbor Berths, Port of Basco, Port of Bauan, Port of Masinloc, Port of Olongapo and vicinity, Puerto Galera, and Sta. Cruz
  - 13 coastal charts: chart numbers 1505, 1506, 1508, 1512, 1516, 1517, 1547, 1550, 1553, 1554, 1555, 1562, and 1563
- ◆ Updated and manually corrected 2,000 printed nautical charts based on feedback from issued *Notice to Mariners* and other information
- ◆ Printed 2,000 copies of 2020 *Tide and Current Tables*
- ◆ Updated the following charts:
  - 2 approach charts: chart numbers 4256A and 4264
  - 1 EEZ chart: chart no. 4727A
  - 2 general sailing charts: chart nos. 5007 and 5015
  - 15 master charts: 2 port and harbor charts, 12 coastal charts, and 1 overview chart
  - 10 electronic navigational charts: Cape Bojeador to Calayan Island, Cape Engaño to Lobod Point, Iloilo Strait, Kamanga Port, Lingayen Gulf and approaches, Lobod Point to Dijohan Point, Olongapo Harbort Berths, Port of Basco, Port of Bauan, and Port of Cawit



Enhanced Harbor Chart number 4215 of the Port of Olongapo on a 1:4,500 scale

## Maritime Publications

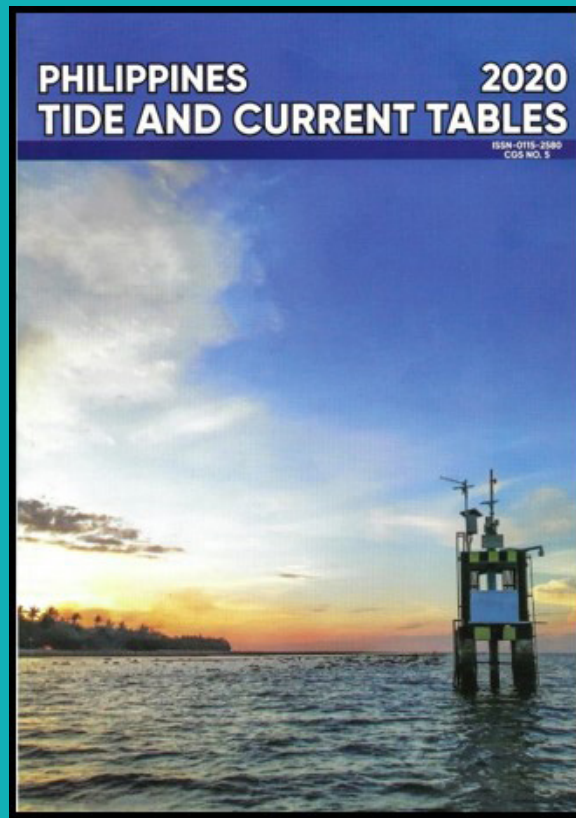
- ◆ Published 12 editions of *Philippine Notices to Mariners* and 158 *Navigational Warnings*, which were e-mailed to subscribers, uploaded to the NAMRIA Web Content Management System, and provided free of charge to the maritime public and foreign hydrographic offices to ensure safety of life at sea and environmental protection
- ◆ Edited manuscript of Volume 2 of *Philippine Coast Pilot Book*, 7th edition; finished editing Volume 1 and stored it in compact disc
- ◆ Published *Philippine List of Lights*, 2019 edition
- ◆ Provided 80 LGUs with technical assistance on the delineation of municipal waters



*NAMRIA maritime publications*

### Physical Oceanographic Surveys

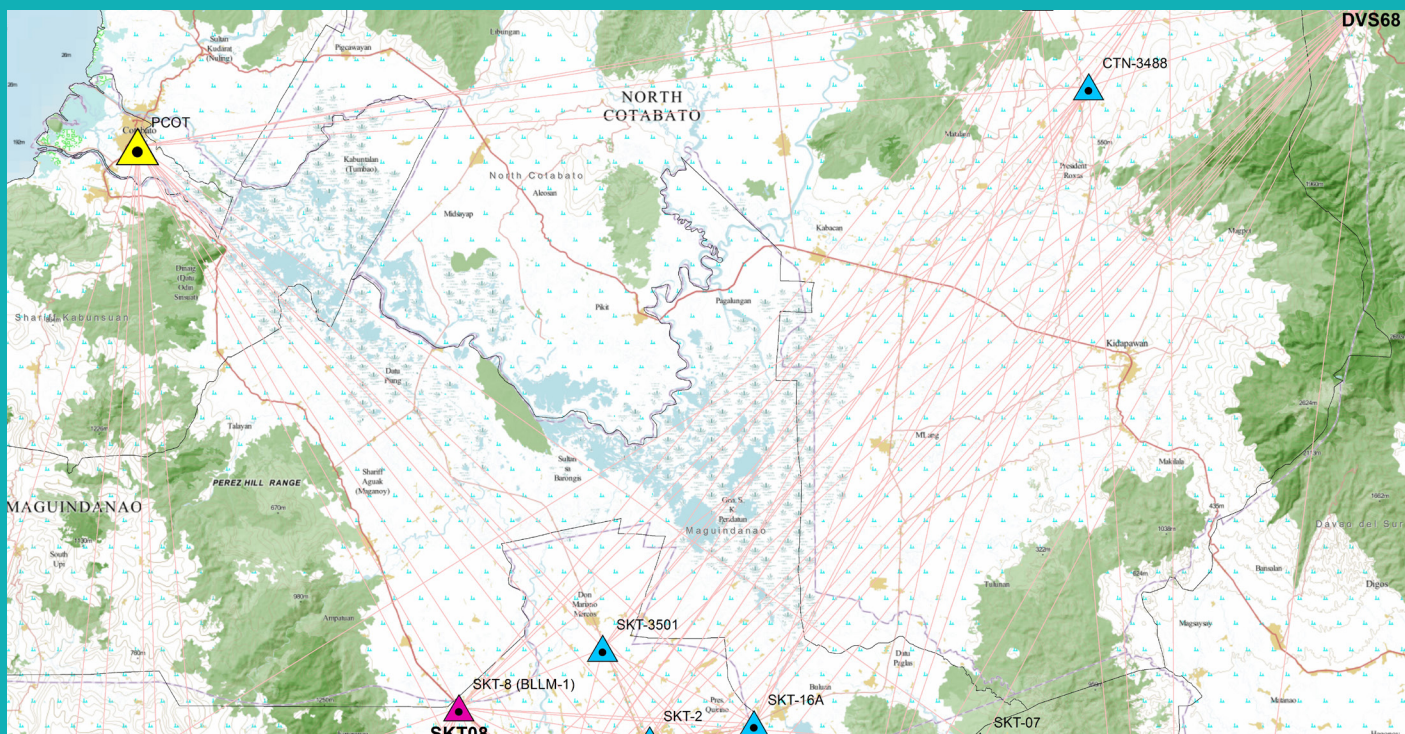
- ◆ Produced 2,000 copies of the 2020 *Tide and Current Tables*
- ◆ Inspected and releveled 50 tide stations
- ◆ Responded to client requests for oceanographic information



*NAMRIA oceanographers conduct tidal leveling and GNSS observation of tide gauge benchmarks.*



# GEODETIC REFERENCE SYSTEM DEVELOPMENT



**N**AMRIA develops and maintains the Philippine Reference System of 1992 (PRS92) which serves as the standard geodetic reference for all mapping and surveying activities in the country. Regular upgrading of the country's horizontal and vertical control network ensures the reliability, completeness, and accuracy of PRS92 as a geodetic reference network. Activities include alignment of PRS92 geodetic control points (GCPs) to the International Terrestrial Reference Frame; reobservation of GCPs; conduct of interisland benchmark connections; establishment of additional satellite-based Active Geodetic Stations (AGS); second-order geodetic leveling in major cities of the country; and conduct of gravity measurements nationwide to further refine the Philippine Geoid Model which was established in 2017.

The following were accomplished during the year:

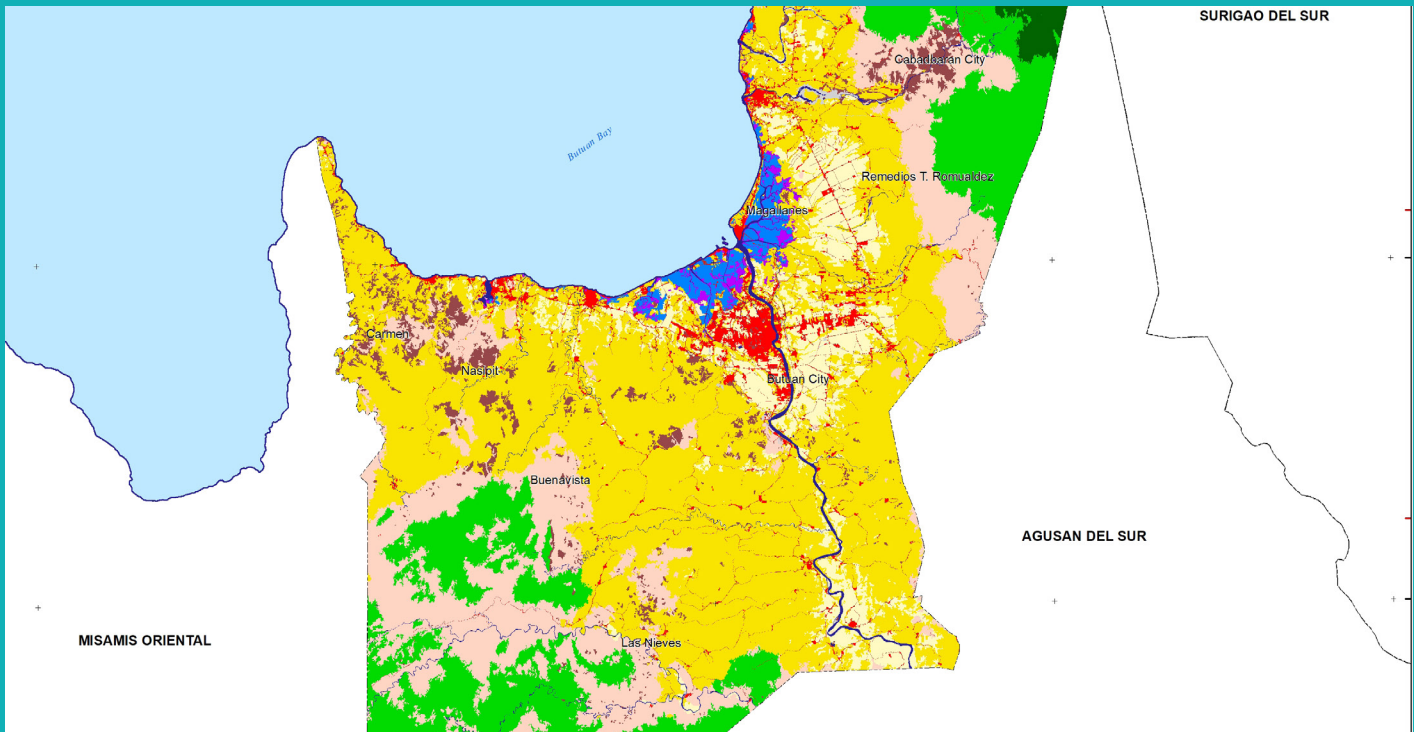
### Geodetic Network Development

- ◆ Established 6 AGS in the provinces of Aparri, Bogo City, Cortez, Guindolman, Masinloc, and Vigan
- ◆ Reobserved 1,067 1st- and 2nd-order GCPs in Regions 7, 8, 9, 10, 11, 12, 13 and Autonomous Region in Muslim Mindanao
- ◆ Maintained 42 AGS and the Control Center for the operation of the Philippine Active Geodetic Network or PAGeNet, the country's basic geodetic referencing infrastructure
- ◆ Selected 7 sites for the establishment of AGS in the provinces of Batangas City, Hagonoy, Lipa, Malay, Olongapo, and Pililia
- ◆ Re-levelled 748 kilometers (km) of bench marks covering Luzon and Mindanao and measured 2,000 land gravity stations in Region 4A and 4B
- ◆ Conducted an information, education, and communication campaign in Region 4B to educate and inform the surveying community about NAMRIA's Modernization of the Philippine Geodetic Reference System
- ◆ Conducted 1 training on the Deformation Model for the computation of forward and backward coordinates of permanent ground deformation (PGD) 2020



*One of the established AGS located in the province of Bogo City, Cebu*

# ENVIRONMENT AND NATURAL RESOURCE MAPPING



**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.

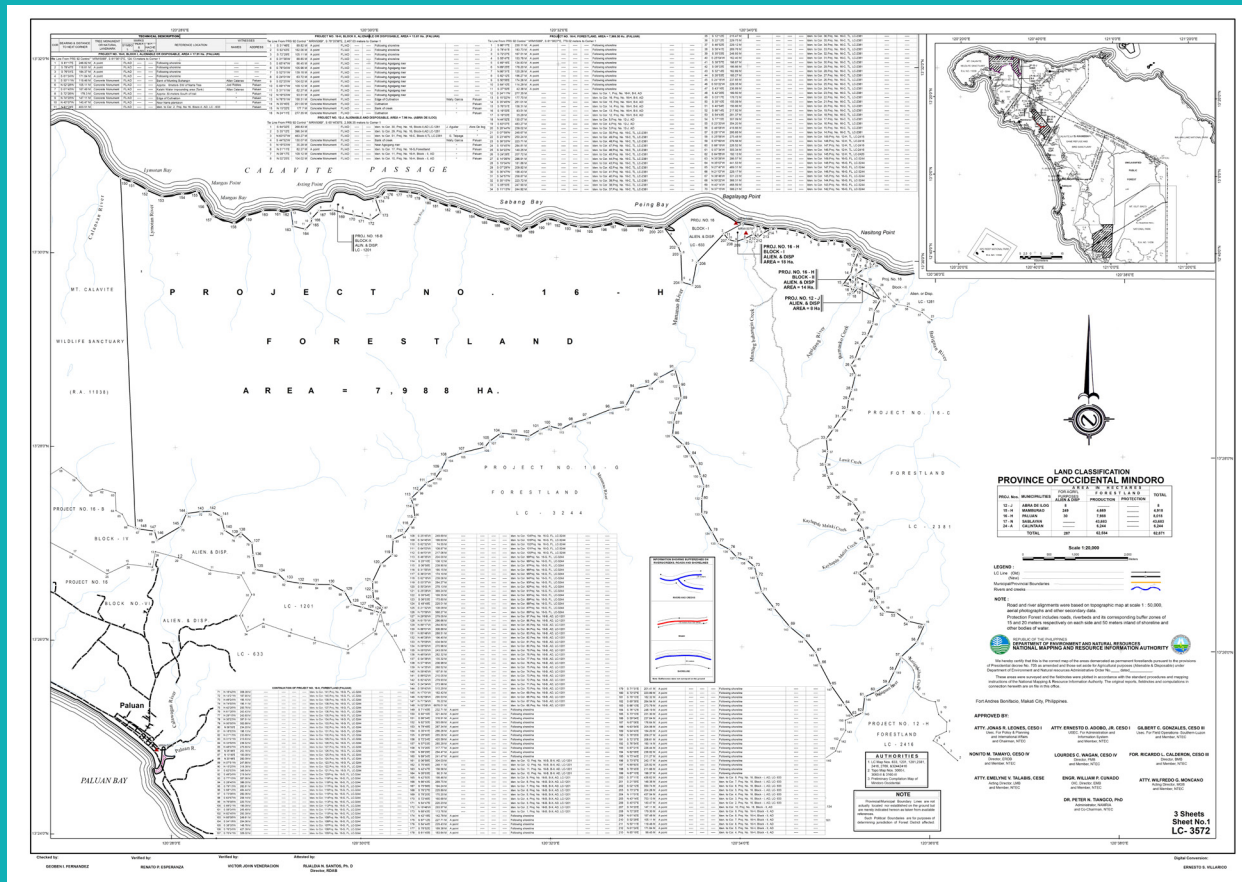


The following were accomplished during the year:

## Forestland Evaluation and Mapping

- ◆ Completed 3 land classification (LC) maps of Unclassified Public Forests in the following municipalities: Maburao and Abra de Ilog in

Occidental Mindoro; Sogod in Southern Leyte;  
and Mambusao, Sapián and Jamindan in Capiz

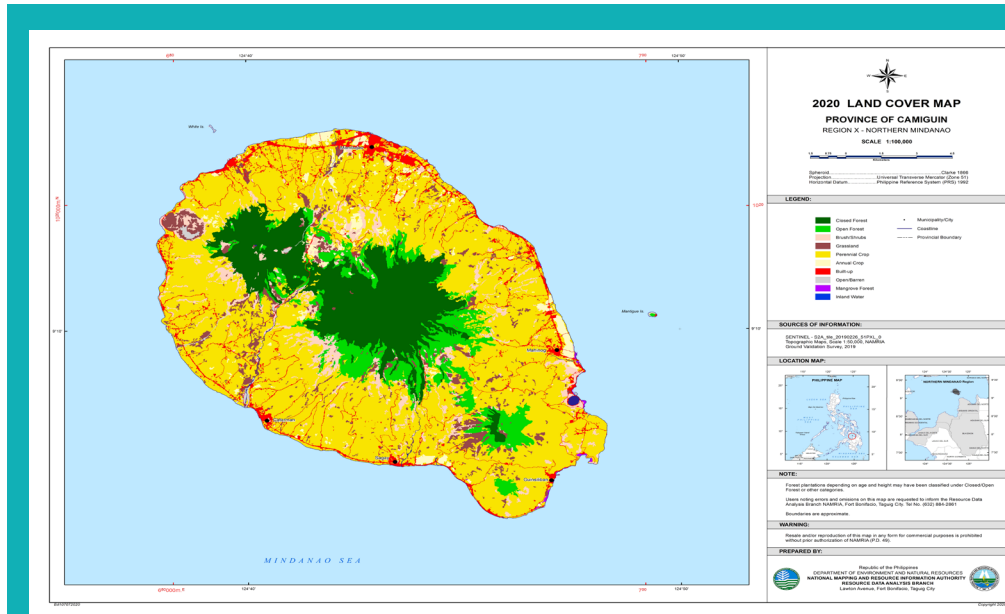


*Land classification map of the province of Occidental Mindoro on a 1:20,000 scale*

## Land Cover Mapping

- Updated new-cycle, 2020 Land Cover Maps covering 18 provinces, namely: Agusan del Norte, Agusan del Sur, Bukidnon, Camiguin, Compostela Valley, Davao del Norte, Davao del Sur, Davao Occidental, Davao Oriental,

Dinagat Island, Lanao del Norte, Misamis Occidental, Misamis Oriental, Negros Oriental, Palawan, Zamboanga del Norte, Zamboanga del Sur, and Zamboanga Sibugay

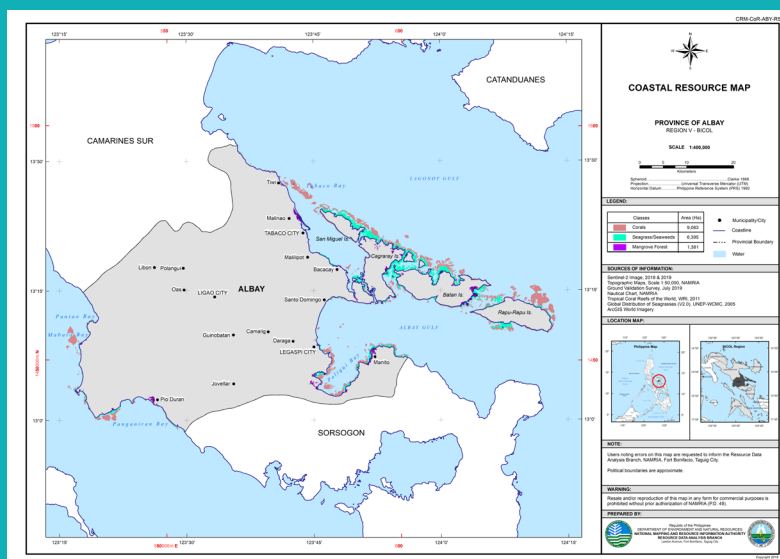


*2020 land cover map of the province of Camiguin*

## Coastal Resources Mapping and Assessment

- Produced 14 coastal resource maps covering the following provinces: Albay, Aurora, Bataan, Batanes, Biliran, Camarines Norte, Camarines

Sur, Cavite, Davao del Sur, Marinduque, Masbate, Quezon, Sorsogon, and Zambales

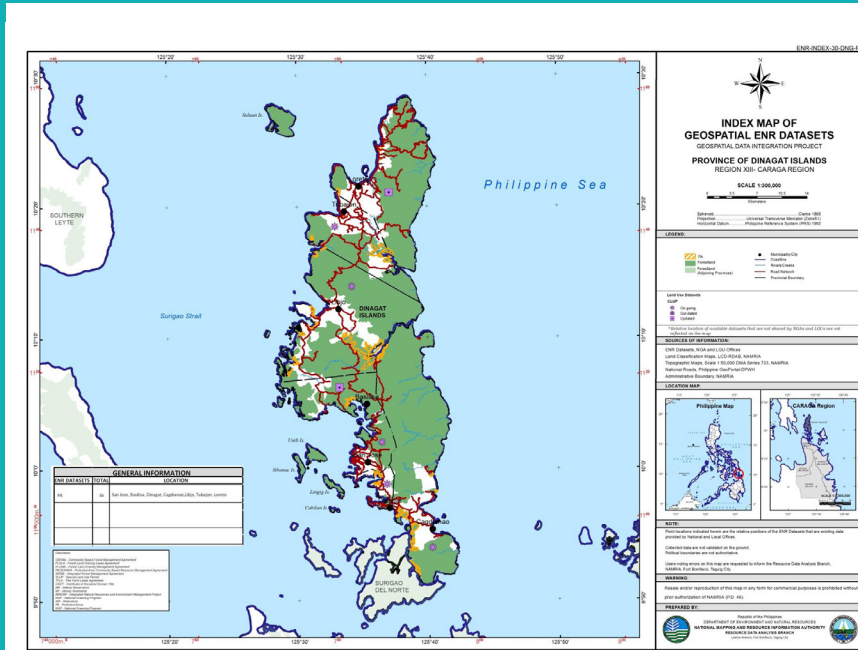


*Coastal resource map of the province of Albay on a 1:400,000 scale*

## Integration and Assessment of ENR Datasets

- ◆ Produced 10 ENR maps covering the following provinces: Bohol, Biliran, Eastern Samar, Leyte, Iloilo, Dinagat Island, Misamis Occidental,

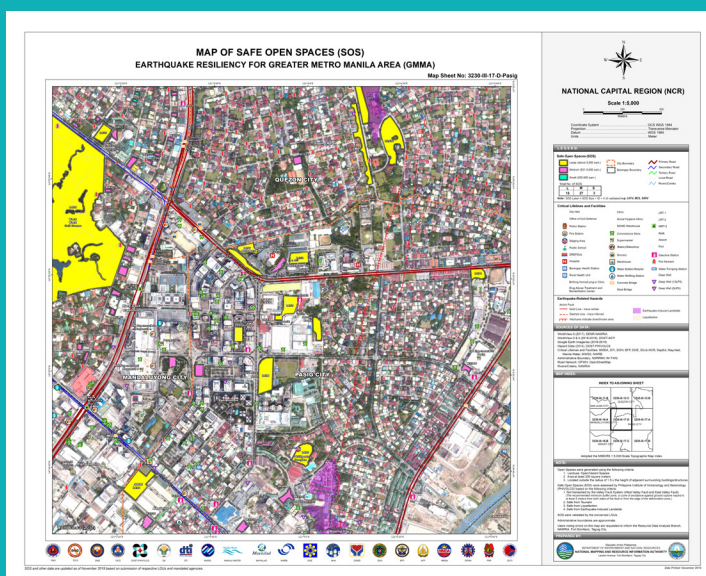
Misamis Oriental, Northern Samar, and Palawan



*Index map of geospatial ENR datasets of the province of Dinagat Islands on a 1:300,000 scale*

## Quadrant Mapping in Preparation for a Massive Earthquake (Big One) in Metro Manila

- ◆ Produced 6,000 map sheets covering 4 quadrants of Manila



*Map of Safe Open Spaces of the National Capital Region on a 1:5,000 scale*



# GEOSPATIAL INFORMATION MANAGEMENT AND SERVICES

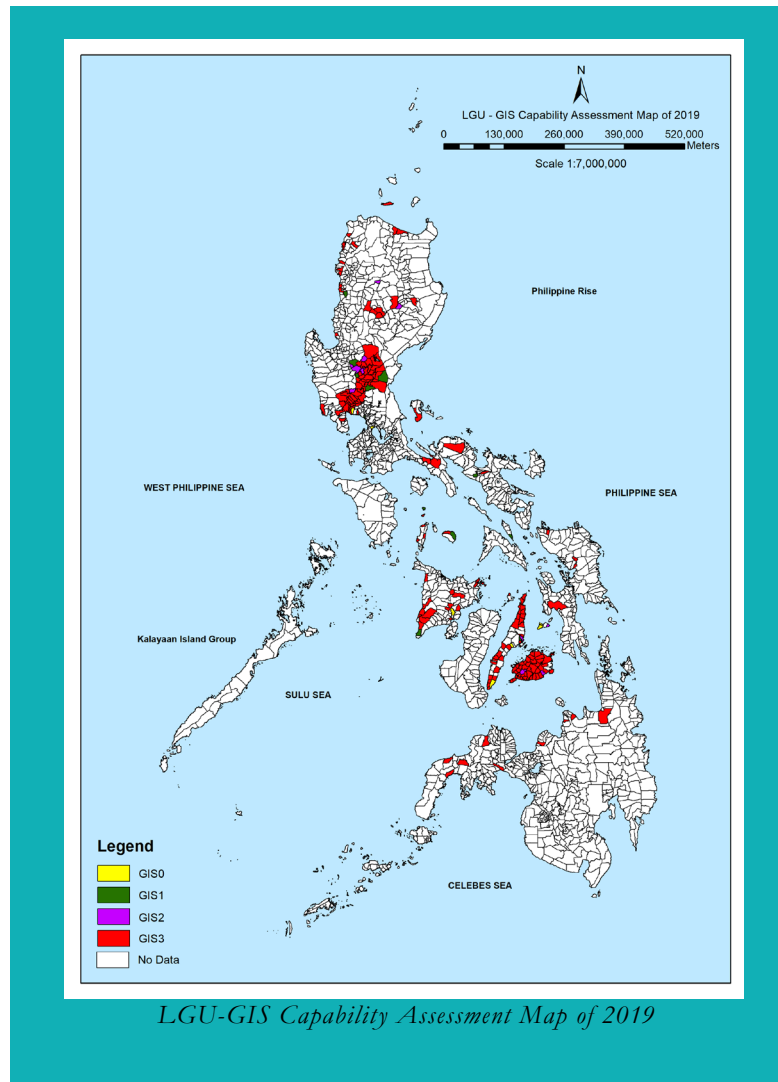


**N**AMRIA's geospatial information management and services include information system strategic planning; geospatial databasing; information and web system development; information and communications technology resource and network management; geographic information systems or GIS project collaboration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

The following were accomplished during the year:

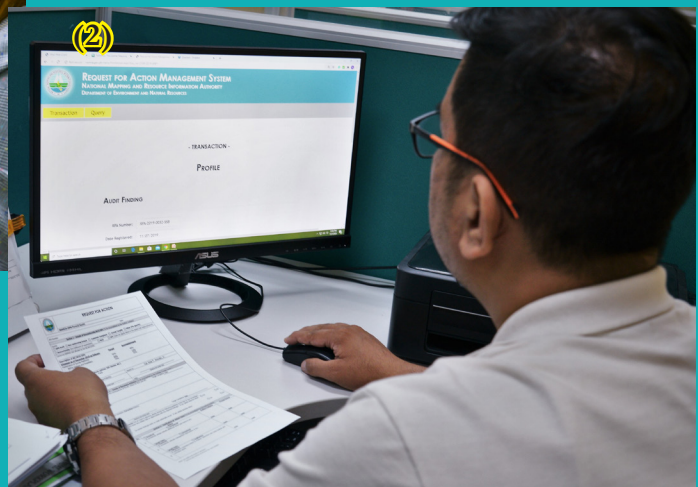
### Geospatial Database Development and Maintenance

- ◆ Maintained the buildup of 5 databases, namely: Competency-Based Assessment Management System (CBAMS), NAMRIA Products and Services Information System (NPASIS), NAMRIA Vehicle Management System (NVMS), Property Acknowledgement Receipt Management System (PARMS), and Strategic Performance Information Management System (SPIMS)
- ◆ Performed the following maintenance procedures for 1 database: database backup and log
- ◆ Performed database design for DataRAR, Inventory of Operations Support Database, and Geospatial Database
- ◆ Prepared the following: 2 assessment survey reports on LGU Capability Assessment survey; and 2 GIS training reports



## Information Systems Development and Maintenance

- ◆ Developed and implemented 5 information systems: Data Builder for GISMB, Data Builder for SSB, NAMRIA Viewer: Leave Balances (NVLB), NAMRIA Viewer: Payslip (NVPS), and Request for Action Management System (RFAMS)
- ◆ Maintained 22 systems: Clearance Certificate System (CCS); Client Request Management System (CRMS); CBAMS; Daily Journal Information System (DJIS) v2.0; Document and Record Information Management System (DRIMS); DocTrack; E-Form LGU GIS; Geodetic Network Information System (GNIS); GTCIS v2; Human Resource Information System (HRIS) Add-ons
- (electronic personal data sheet [e-PDS], Recruitment Matrix Modules, and Training Management); Knowledge Management System (KMS); NAMRIA Lobby Assistant (NLA); NPASIS v2; NAMRIA Provident Fund Information System (NPFIS); NVMS; NAMRIA Web Content Management System (NWCMS); NAMRIA Web Inquiry Monitoring System (NWIMS); PAGeNet Management System-Data and Control Center; PARMS, SPIMS v2.0, Tide Gauge Benchmark Databasing System; and the NAMRIA website
- ◆ Uploaded the Transparency Seal and Good Governance requirements



*NAMRIA employees using (1) NVPS and (2) RFAMS*



## Information and Communications Technology (ICT) Resource Management

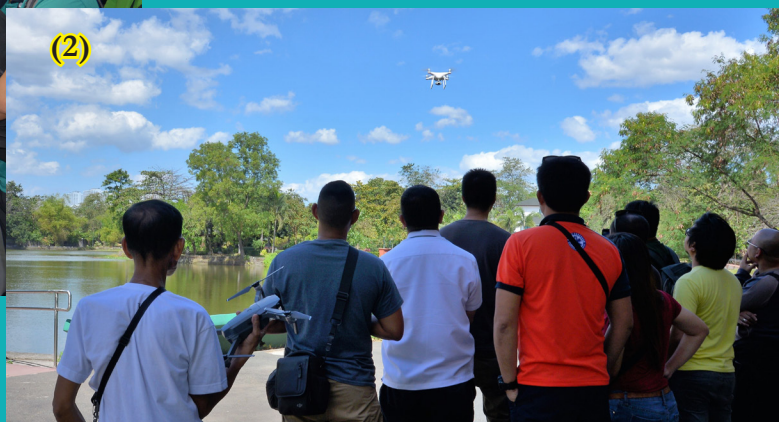
- ◆ Performed preventive and corrective maintenance for 656 computer systems
- ◆ Conducted administration, monitoring, and troubleshooting for the agency's network/data center
- ◆ Researched on the technology case study, "NAMRIA Deployment and Utilization"
- ◆ Updated the inventory list of the agency's computer systems
- ◆ Maintained the ICT Resource Management Information System

*Preventive and corrective maintenance is performed for a computer system.*



## Geographic Information Services and Production of NAMRIA Information, Education, and Communication (IEC) Materials

- ◆ Prepared and printed the NAMRIA Fiscal Year (FY) 2018 *Annual Report, Infomapper* Volume XXV, and 45 NAMRIA *Newscoop* articles
- ◆ Produced 1 NAMRIA profile Audio-Visual Presentation
- ◆ Updated the list of NAMRIA products and services for the Search Catalogue part of the agency's website
- ◆ Prepared 4 quarterly 2019 Client Satisfaction Reports, 2018 Client Satisfaction Report, 2018 Client Needs Assessment Report, 2018 NGTC Training Report, 2018 Map Sales Office (MSO) Sales Report, 12 monthly sales reports, and 7 MSO inventory reports;
- ◆ Conducted 47 trainings (regular/special/Memorandum of Agreement-based)
- ◆ Published 2 institutional advertisements: one in *The Philippine Star* newspaper for the 118th Anniversary of the Civil Service Commission and one in the souvenir program of the College of Forestry and Natural Resources-University of the Philippines Los Baños for their 109th Founding Anniversary and Alumni Homecoming
- ◆ Set up 8 photo/map exhibits for various events
- ◆ Documented 248 events in photo and 52 events in video
- ◆ Conducted 44 tours of the agency's facilities
- ◆ Served 7,923 client queries



*Conducted (1) Tour of facilities for Philippine Statistics Authority personnel  
and (2) NAMRIA Geomatics Training Center training on Unmanned Aerial Vehicle Mapping*



# 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:

### Policy and Planning Services

- ◆ Prepared FY 2020 Planning Guidelines and Budget Proposal, 1 NAMRIA Work and Financial Plan, 1 Forward Estimates/PDP/MTIP/SP scorecard and reviewed 2 policies
- ◆ Participated in the series of workshops, meetings, and technical budget hearings related to the proposed 2020 budget of the agency; and acted as secretariat in various workshops and meetings of NAMRIA
- ◆ For the implementation of the Strategic Performance Management System (SPMS), prepared FY 2020 SPMS Calendar, Office Performance Commitment Rating, and SPMS Indicators Summary
- ◆ Conducted validation of FY 2018 project outputs of NAMRIA
- ◆ Prepared one (1) Validation Report and one (1) Annual Report
- ◆ Prepared the Management Review Report (MRR)
- ◆ Consolidated, assessed, and evaluated monthly/quarterly/annual physical performance reports
- ◆ Prepared 2 forms (A1 & A2 - Policy and Planning Division Branch Assessment reports) and other Performance-Based Bonus (PBB) requirements
- ◆ Conducted 2 Program Review and Analysis (PRA) sessions for FY 2018 and FY 2019 1st Semester
- ◆ Conducted 8 field validation/inspection for various projects of NAMRIA
- ◆ Drafted the guidelines on the implementation of Executive Order No. 77 regarding increase in travelling allowance of government employees



*FY 2019 PRA session*

### Financial and Management Services

- ◆ Prepared Disbursement and Income Reports, Financial Statements, Taxation Reports, January to December Financial Performance Reports, Quarterly Budget and Financial Accountability Reports, Status of Funds, reports of Aging on Cash Advance, Bank Reconciliation Report, and remittances to collecting agencies (e.g., Government Service Insurance System, Bureau of Internal Revenue, and Philhealth)
- ◆ Processed Statement of Allotment, Obligations and Balances, and vouchers for end-users and suppliers
- ◆ Submitted budget proposals
- ◆ Pre- and post-audited all travel and field work-related documents

### Administrative Services

- ◆ On Strategic Human Resource Management:
  - Filled up 72 vacant positions for plantilla and uniformed personnel
  - Processed documents for permanent and Job-Order employees
  - Processed employee benefits (e.g., clothing allowance, Loyalty Award, Productivity Incentive Bonus, and PBB)
  - Updated leave credits
  - Prepared FY 2019 Recruitment Plan
  - Prepared memorandum for renewal of contracts of 446 Contract of Service employees
  - Revised 1 Competency-Based System-Job Description (CBS-JD) for priority positions
  - Summarized PBB Evaluation Matrix rankings and submitted them to the Inter-Agency Task Force on the Harmonization of National Government Performance Monitoring, Information and Reporting Systems



*Financial Planning Workshop for Fiscal Year 2020*



- Conducted Investors in People (IIP) Philippines assessment action planning workshop and review
- Prepared 1 2019 Learning and Development (L&D) Plan and Training Calendar, implemented 20 L&D activities, finalized 1 curriculum program, and prepared 2 L&D monitoring reports
- ◆ On Library Management:
  - Acquired and circulated information materials
  - Updated database
  - Inventoried information holdings and scanned books
- ◆ On the Acquisition and Management of Goods and Services:
  - Prepared/processed purchase orders and property cards
  - Prepared 2 Supplier Evaluation Reports
  - Prepared and submitted to oversight agencies the 2018 PBB requirements and 2020 Annual Procurement Plan (APP)
  - Received and processed internal and external documents, compiled 2018 Report of Annual Records Inventory Appraisal, addressed 100% of alterations in documented information, and updated the master list of created/revised NAMRIA Quality Management System documents



*IiP assesement action planning workshop and review*



- Submitted 1 report on inventory and inspection of unserviceable property to the NAMRIA Accounting Section and the Commission on Audit (COA)

◆ On Financial Services:

- Prepared Report of Checks Issued for List of Due and Demandable Accounts Payable/Advice to Debit Account folders and check folders; Report of Accountability for Accountable Forms (RAAF) for checks; Summary of Daily Actual Disbursement Report; Cash Receipts Record; and RAAF for Official Receipts

### Engineering Services

- ◆ Performed preventive maintenance for 48 technical equipment and 14 communications equipment
- ◆ Performed corrective maintenance for 105 communications equipment
- ◆ Maintained and repaired buildings, appurtenances, grounds, and air conditioning/plumbing facilities
- ◆ Performed 235 preventive and 47 corrective maintenance for NAMRIA vehicles
- ◆ Served the transportation needs of officials and employees



*Preventive maintenance and repair of the NAMRIA offices*

## Locally-funded and Special Projects Implemented

### On Hydrography, Physical Oceanography and Nautical Charting

- ◆ Continuous data logging and near real-time data transmission of the Earth's magnetic elements using the magnetometers installed at the Magnetic Observatory for the Circum-Pacific Magnetic Network Project (Kyushu University, Japan) and Ocean Hemisphere Network Project (University of Tokyo, Japan)
- ◆ Continued collaboration with Philippine Institute of Volcanology and Seismology sea-level stations regarding the processing and analysis of tidal data
- ◆ Conducted remaining FY 2018 bathymetric survey of 357.45 square kilometers (sq km) for a total of 1,897 sq km project coverage, in partnership with the Manila Bay Coordinating Office for the project "Bathymetric Survey of Manila Bay"
- ◆ Accommodated educational, ship familiarization, and immersion tours requested through the Subic Bay Metropolitan Authority and the Department of Tourism for various schools, colleges, and universities
- ◆ Provided municipal water data to LGUs and other government agencies
- ◆ Provided technical assistance to various government agencies

### On Geospatial Information Management and Services

- ◆ On NAMRIA Geospatial Data Infrastructure (NGDI) Project:
  - Developed the Lot Plotter Map App under Geoportal Philippines
  - Maintained 5 systems, namely: Environment and Natural Resources Information Management System, Geoportal Philippines, Maritime Information System, NAMRIA Geospatial Information Management System, and Topographic Mapping Information System
  - Maintained the database of Geoportal Philippines and NAMRIA Geoportal Information Management System (NGIMS)
- ◆ On Philippine Health Atlas Project - Phase IV :
  - Conducted 3 trainings on GIS for Department of Health personnel
  - Conducted 17 provincial and 1 municipal GPS field surveys and documentations
  - Generated 17 Health Facility (HF) maps, uploaded HF spatial data to *Geoportal Philippines*, and prepared the final report

# GENDER AND DEVELOPMENT



**N**AMRIA, in partnership with the DENR and other concerned institutions, conducts and participates in various Gender and Development (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 the agency's various endeavors.



Accomplishments under the NAMRIA GAD program are as follows:

- ◆ Participated in Women's Month and conducted workshops/trainings on various GAD-related activities
- ◆ Conducted activities for the 18-Day Campaign to End Violence Against Women
- ◆ Formulated GAD Plan and Budget for FY 2020
- ◆ Continued to serve the needs of 9 regular NAMRIA Daycare wards, i.e., the children and dependents of employees
- ◆ Prepared and distributed GAD IEC materials
- ◆ Collected and analyzed sex-disaggregated data on all project-based activities



(Photo 1) Distribution of gender advocacy pins during the GAD month kick-off ceremony, (Photo 2) Contestants of NAMRIA GAD Spoken Poetry Contest, (Photo 3) NAMRIA GAD Focal Point System Strategic Planning Workshop, and (Photo 4) NAMRIA GAD Fun Run





# NAMRIA

## ORGANIZATIONAL CHART



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



**JOSE C. CABANAYAN, JR.**  
Deputy Administrator



**EFREN P. CARANDANG**  
Deputy Administrator



**ROWENA E. BONGALOS**  
Chief of Staff



**FEBRINA E. DAMASO**  
Director  
Support Services Branch



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



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



**RIJALDIA N. SANTOS**  
Director  
Resource Data Analysis Branch



**JOHN SANTIAGO F. FABIC**  
Director  
Geospatial Information  
System Management Branch



**Lcdr. JOHN M. LABINDALAWA**  
Officer in Charge  
Assistant Director  
Hydrography Branch



**OFELIA T. CASTRO**  
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



**MARITA R. SARMIENTO**  
Chief  
Policy and Planning Division



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



**CONCEPCION A. BRINGAS**  
Chief  
Administrative Division



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



**TITA P. CRUZ**  
Officer in Charge  
Nautical Charting Division



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



**Cdr. CARTER S. LUMA-ANG**  
Chief  
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



**BRIAN A. DELA CRUZ**  
Chief  
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



**JOSEQUITO 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 the 2019



**NAMRIA leads cleanup drive for rivers and esteros along Pateros and Taguig**



**Meeting regarding the conduct of verification survey and densification of GCPs in Boracay**



**BRP HYDROGRAPHER PRESBITERO conducts multibeam survey along the West Philippine Sea**



**NAMRIA is 4peat champion in DENR Inter-Agency Sportsfest**



**NAMRIA leads first ever *Pambansang INisyatiba ng mga Agrimensor para sa Sabayang GNSS Campaign* or PINAS GNSS Campaign**

Highlights  
from  
2019



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Highlights  
from

2019



**NAMRIA joins waterways cleanup in Taguig City**



**NAMRIA conducts inspection of Maricaban Creek Tributaries in Taguig**



**NAMRIA delegates participate in the Manila Bay Rehabilitation Program kickoff ceremony**



**NAMRIA officials led by Administrator Tiangco gather together at the NAMRIA Lecture Hall following the new year's call**



**NAMRIA receives official replica of 1734 Murillo-Velarde Map**

from  
Highlights

2019



# Financial Report

## STATEMENT OF FINANCIAL POSITION ALL FUNDS AS OF DECEMBER 31, 2019

ASSETS	2019	2018
<b>Current Assets</b>		
Cash and Cash Equivalents	11,353,979.57	18,417,573.04
Receivables	5,982,230.09	
Inventories	60,360,154.37	86,417,787.79
Other Current Assets	27,796,883.61	26,853,879.98
<b>Total Current Assets</b>	<b>105,493,247.64</b>	<b>131,689,240.81</b>
<b>Non-Current Assets</b>		
Receivables		6,047,963.80
Property, Plant and Equipment	1,644,248,129.75	1,792,769,733.07
Intangible Assets	1,316,426,292.53	1,302,703,363.49
<b>Total Non-Current Assets</b>	<b>2,960,674,422.28</b>	<b>3,101,521,060.36</b>
<b>Total Assets</b>	<b>3,066,167,669.92</b>	<b>3,233,210,301.17</b>
<b>LIABILITIES</b>		
<b>Current Liabilities</b>		
Financial Liabilities	107,668,983.03	129,624,943.43
Inter-Agency Payables	33,410,847.00	34,077,703.26
Deferred Credits	-	-
Due to Operating Units	1,023,276.12	-
Other Payables	166,184.24	5,196,302.53
<b>Total Current Liabilities</b>	<b>142,269,290.39</b>	<b>168,898,949.22</b>
<b>Non-Current Liabilities</b>		
Financial Liabilities	219,182.35	219,182.35
<b>Total Non-Current Liabilities</b>	<b>219,182.35</b>	<b>219,182.35</b>
<b>Total Liabilities</b>	<b>142,488,472.74</b>	<b>169,118,131.57</b>
<b>Net Assets/Equity</b>		
Accumulated Surplus/(Deficit)	2,923,679,197.18	3,064,092,169.60
<b>Total Net Assets/Equity</b>	<b>2,923,679,197.18</b>	<b>3,064,092,169.60</b>
<b>TOTAL LIABILITIES AND NET ASSETS/EQUITY</b>	<b>3,066,167,669.92</b>	<b>3,233,210,301.17</b>



# Map Sales Offices

Providing Maps, Nautical Charts, and other NAMRIA Products

Region	Address	MSO STAFF	Phone/Fax
Main	Lawton Avenue, Fort Andres Bonifacio, Taguig City	Dante A. Rosette, Jr. Rina Grace G. Gersalia Ana Victoria A. Labor Sheilah Mae G. Lopez Marlon Y. Aguilar	(02) 8810-4831 to 42 loc 431 (02) 8810-5467
NCR	421 Barraca Street, San Nicolas, Binondo, Manila	SN3 Marilou B. Cinco Esmeraldo R. Briones Romeo B. Brizuela Dhena L. Quiros	(02) 8245-9498 (02) 8241-3494 loc 117
NCR	421 Barraca Street, San Nicolas, Binondo, Manila	SN3 Marilou B. Cinco Esmeraldo R. Briones Romeo B. Brizuela Dhena L. Quiros	(02) 8245-9498 (02) 8241-3494 loc 117
NCR	DENR-FMB Compound, Visayas Avenue, Quezon City	Sherry Ann S. Perez Glenn M. De Jesus	0999-607-9193
CAR	DENR-CENRO Forestry Compound, Cottage 1 Gibraltar Road Brgy. Pacdal, Baguio City	<i>Temporarily Closed</i>	NA
I	DENR Government Center Sevilla City of San Fernando La Union	Bona G. Perez	0999-405-6917
II	DENR-Land Evaluation Party Building II, Brgy. Carig, Tuguegarao City	Marilyn J. de Guzman	0936-788-5182
III	GIS Room, WRMC Building Central Luzon State University Compound Maharlika Highway Science City of Muñoz	<i>Temporarily Closed</i>	NA
III	DENR Compound, Diosdado Macapagal Gov't. Center. Maipis City, San Fernando, Pampanga	Lily C. Pineda	0910-372-5623
IV-A	Provincial Planning and Development Office, Capitol Complex, Batangas City	Engr.Leda P. Velasquez	0906-336-1551
IV-B	DENR-PENRO Santa Monica, Puerto Princesa City	Juvy B. Sarmiento Corazon L. Zeñarosa	0918-283-7045 048-433-1391
V	DENR-Operation/Survey Division, Rizal Street, Saggon, Legaspi City, Albay	Isabelita T. Climaco	(052) 480-9825 0906-633-63033
VI	Manuel Lagunilla Bldg., DENR Compound, Parola, Iloilo City	Dorothy C. Salvador	0919-887-3862
VII	Room 301 Osmeña Building II, Osmeña Boulevard, Cebu City, Cebu	Melchor Togonon Renato B. Alcontin, Jr.	032-505-9945 0922-791-0372 0923-823-9902
VIII	DENR Compound, Santo Niño Extension, Tacloban City	<i>Temporarily Closed</i>	NA
IX	Pres. Corazon C. Aquino Regional Government Center, Balintawak, Pagadian City, Zamboanga Del Sur	Josefina S. Valdez	0907-277-7422
IX	DENR CENRO West General Vicente Alvarez St. Zone 4, Zamboanga City	Annete P. Flores	0935-860-9439
X	DENR Building Macabalan, Cagayan de Oro City, Misamis Oriental	Jennifer D. Bagamaspad	0926-414-8976
XI	Kilometer 7, SPED Road, Bangkal, Davao City	Eduardo A. Deocampo	0915-612-7770
XII	DENR- Land Evaluation Party Aurora Street, Koronadal City, South Cotabato	Jeanyluz B. Bautista	(083)-228-2452 0951-306-5339
CARAGA	DENR - Land Management Services Building, Ambago, Butuan City, Agusan del Norte	Lolita M. Cabilitasan	0917-318-7608

As of December 2019





## 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**

**Accredited  
Until 2020**





## PHILIPPINE RISE



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

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