

# Annual Report



"Building a geospatially-empowered Philippines"

2015



# MINDANAO ISLAND

## Vision

By 2020, NAMRIA is a center of excellence building a geospatially-empowered Philippines

## Mission

To provide accurate, timely and accessible topographic maps, nautical charts, and other geospatial products and services



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

**ISO 9001:2008-CERTIFIED FOR MAPPING AND GEOSPATIAL INFORMATION MANAGEMENT**



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## NAMRIA QUALITY POLICY

We at NAMRIA are committed to our clients' outmost satisfaction by providing accurate and reliable geospatial information.

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.





Republic of the Philippines  
Department of Environment and Natural Resources  
**NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY**



## ADMINISTRATOR'S REPORT

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The year 2015 was another landmark year for NAMRIA. Its capabilities and accomplishments resulting from hard work and teamwork were distinctly recognized as it contributed to the overall thrusts and programs of the DENR and the government. As the country's central mapping agency, NAMRIA provided geospatial information that served as vital reference for planning, decision making, and governance. During the year, 19 major projects were programmed and implemented under the following core functions: Topographic Base Mapping, Hydrographic Surveys and Nautical Charting, National Geodetic Network Development, Resource Assessment and Mapping, and Geospatial Information Management.

A most remarkable recognition of the agency's significant accomplishments was the commendation from the Philippine House of Representatives which passed House Resolution number 174. The resolution was for the valuable contributions of the agency and other key agencies, towards securing Philippine entitlement to the Extended Continental Shelf in the Benham Rise Region, and other notable accomplishments involving the country's maritime zones. House Speaker Feliciano Belmonte Jr. formally presented the resolution to the agency at the Social Hall of the Office of the Speaker on 09 October 2015. The approval of Philippine jurisdiction over the Benham Rise Region given by the United Nations Commission on the Limits of the Continental Shelf, is considered the first major expansion of the Philippines' maritime boundaries since it declared its exclusive economic zone in the late 1970s. A total of 135,506 square kilometers was added to the seabed territory of the country. The said resolution also acknowledged the agency's key technical assistance in the crafting and the passage of Republic Act number 9522, An Act to Amend Certain Provisions of Republic Act No. 3046, as Amended by Republic Act No. 5446, to Define the Archipelagic Baselines of the Philippines, and for Other Purposes.

NAMRIA successfully hurdled its sixth surveillance audit conducted in August 2015 by auditors of Certification International Philippines, Inc. The agency began its ISO





certification journey in 2012 and remains, to date, certified to the ISO 9001:2008 standards for Mapping and Geospatial Information Management. It is the first agency under the DENR to be ISO-certified for Quality Management System. During the year, NAMRIA also completed the draft of its Quality Management and Operations Manual.

NAMRIA also successfully hosted two significant international events, which were both held in October 2015: the 12th East Asia Hydrographic Commission (EAHC) Conference and the 4th Training Research and Development Center Board of Directors meeting. The two events were conducted for the collective goal of the EAHC member states to advance navigational safety and protect the marine environment in the East Asia Region. The NAMRIA Hydrography Branch represented the Philippines as the EAHC chair for a period of three years and turned over the chairmanship to Malaysia on the last day of the conference.

The agency continued to represent the Philippines as chair of the United Nations Group of Experts on Geographical Names-Asia South-East Division. The chairmanship is for a period of four years, from April 2014 to April 2018. The Philippines, through the agency, was also designated co-chair, with Jamaica, of the Working Group on Geospatial Information and Services for Disasters under the auspices of the United Nations Global Geospatial Information Management. The co-chairmanship began in August 2015 and will last until the finalization of the proposed strategic framework, which, if implemented, would allow the availability and accessibility of quality geospatial information and services for decision making and operations across all phases of disaster risk reduction and management.

Another momentous event was the official commissioning of NAMRIA's two new catamaran hydrographic survey vessels, namely, the Barko ng Republika ng Pilipinas HYDROGRAPHERS ANDRES HIZON and CAYETANO PALMA. No less than DENR Secretary Ramon J.P. Paje was the guest of honor during the commissioning ceremony held in Subic Port on 01 June 2015. The new vessels, along with the agency's two other survey vessels, are to be used in the expansion of the agency's hydrographic and oceanographic survey capabilities. Both vessels immediately were utilized to conduct hydrographic survey of domestic sealanes from Camotes Sea to Visayan Sea and from Tanon Strait to Visayan Sea to update the nautical charts. In partnership with the Manila Bay Coordinating Office (MBCO), a Memorandum of Agreement between DENR and NAMRIA was approved in the middle of the year for the implementation of a two-year bathymetric survey of Manila Bay.

The agency and the MBCO headed the Manila Bay Area Environmental Atlas technical working group in a series of meetings and workshops to complete the second edition of the atlas. Final printed copies were turned over to the MBCO.

The agency still led the implementation of a national spatial data infrastructure which has as a major output, the Philippine Geoportal. Various users benefited from the map layers, numbering close to 300 to date, which were uploaded to the Philippine Geoportal.

During the year, the agency provided to various government agencies, the academe, and private institutions products/ data and services in the form of base maps, satellite images, aerial photographs, certifications relating to land classification, geodetic data, nautical distance, tidal data, sea level and predictions; and related



geographic and natural resource data and publications.

The completed Interferometric Synthetic Aperture Radar or IfSAR data for the whole Philippines was used as reference to validate the total land area of the country. The data have also been useful in the production by the DENR-Mines and Geosciences Bureau and the Department of Science and Technology, through its Nationwide Operational Assessment of Hazards or Project NOAH, of vital geohazard maps to benefit different stakeholders.

NAMRIA counts on the unwavering support and hard work of its officials and employees to ensure the achievement of the agency's regular programs and projects for 2016. With its recent procurement of an extended license to use the raw data of very high-resolution satellite imageries covering the entire country, the agency was able to produce seamless orthoimages which are being used as base data for the ongoing production of large-scale topographic maps. In geodetic network development, the agency continues to develop and maintain the national geodetic reference system. The agency will also keep on pursuing its geodetic system modernization, most notably through its alignment to the international geodetic system.

Moreover, NAMRIA will continue with its resource mapping and assessment projects to update environment and natural resources data on land cover, coastal resources, low-lying areas vulnerable to sea-level rise, and land classification. The agency will still compile and update the nautical publications and provide technical support in the delineation of the country's maritime zones and boundaries. NAMRIA remains the national hydrographic office and the focal point for the International Hydrographic Organization and the EAHC.

For the DENR, the agency will keep on providing technical assistance in the final mapping and preparation of draft house bills fixing the final forest limits of the country, including validation of the general location of areas under the National Integrated Protected Area System, among other mapping requirements. NAMRIA will also continue to assist Congress in the deliberations on priority bills on maritime zones, archipelagic sealanes, comprehensive land use, and protected areas, among others.

To date, the agency also carries on with the implementation of human resources and organizational development programs such as Competency-Based Human Resource System, Recruitment and Placement System, Strategic Performance Management System, Strategic Human Resource Development Plan, and Employee Engagement. The policy on the NAMRIA Program on Awards and Incentives for Service Excellence is moreover awaiting approval by the Civil Service Commission. The agency will also update its Strategic Plan.

As NAMRIA reaches its 29th year of service, it remains steadfast in its commitment to persist in contributing significantly for the country's development and security. It goes onward further to its vision of becoming a center of excellence, building a geospatially-empowered Philippines by 2020.



**DR. PETER N. TIANGCO, CESO I**  
Administrator





## TOPOGRAPHIC BASE MAPPING

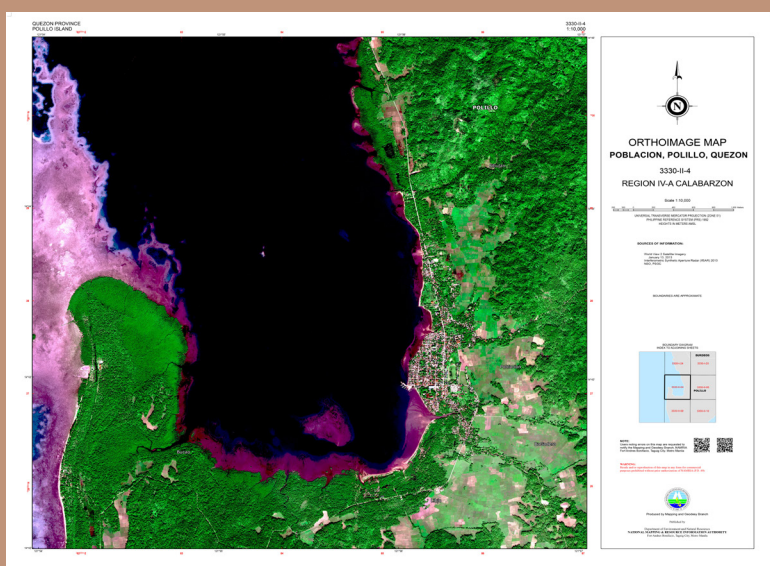
**N**AMRIA produces topographic base maps at various scales, in paper form or digital data, for use by the national government agencies, local government units (LGUs), the academe, the scientific community, and the private sector. They are used as basic tools in development planning, disaster risk reduction and management, investment and research activities, among others. They are updated through the use of the latest aerial photographs and satellite imageries. Small- and medium-scale topographic maps (1:250,000 scale and 1:50,000 scale) generally cover large areas, while large-scale topographic maps (e.g., at 1:10,000 scale or larger) generally cover smaller areas but show more detail than small-scale maps. NAMRIA likewise produces updated administrative maps showing the political boundaries of provinces, regions or municipalities.



The following were accomplished during the year:

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

- Stereo compiled 40 sheets at scale 1:10,000 covering Catanduanes, Polilio, and Tacloban; produced 40 orthoimages maps for portion of Catanduanes and portion of Polilio; cartographic enhancement of 44 sheets for Cebu, Masbate, Olongapo, San Fernando, Santiago and Tacloban; and map database input of 50 map sheets for Baguio, Candon, Leyte, Masbate, Olongapo & Subic Bay Metropolitan Authority, San Fernando and Santiago
- Under the Unified Mapping Project (UMP), 6,800 map sheets were delivered of which 5,896 map sheets were completed and the remaining maps are for final evaluation
- Outsourced the production of 1:4,000 large-scale orthoimage and topographic base maps for identified highly urbanized, flood plain, and high-risk areas with a total estimated land area of 334,534 hectares. These areas include Batac, Candon City, Laoag City, Pagudpud, Paoay, and Vigan City (Cluster 1); San Pablo City and vicinities in Laguna; Lucena City and vicinities in Quezon; Portion of Puerto Princesa City, Palawan (Cluster 2); Tagbilaran City in Bohol, Zamboanga City and vicinities (Cluster 3). The maps will provide more detailed geospatial information and shall serve as fundamental data for various thematic applications such as geohazard mapping, comprehensive land use and development planning, disaster-risk reduction and management, climate change adaptation and mitigation



*Orthoimage map of Poblacion, Polillo, Quezon at 1:10,000 scale*



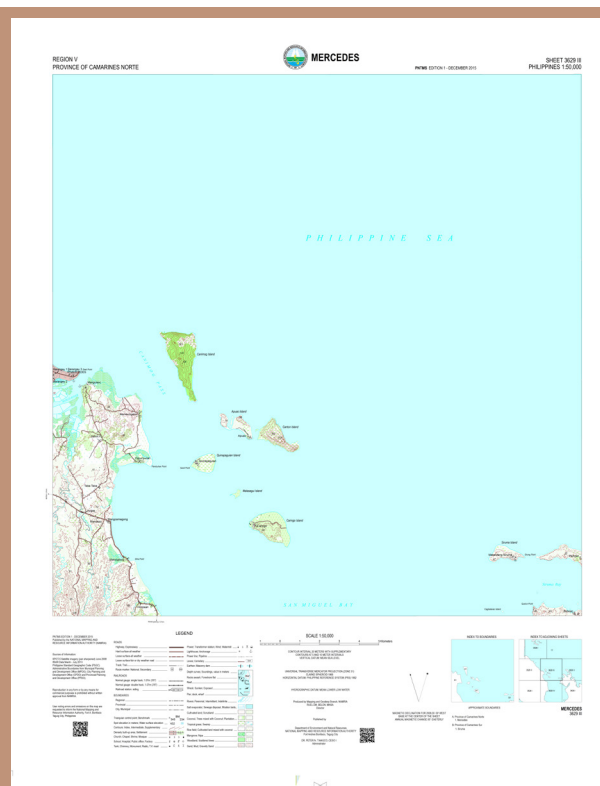


Updated and cartographically enhanced topographic map of Banton Island in Romblon province at 1:50,000 scale

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

- Updated 40 map sheets at scale 1:50,000 covering Abra, Albay, Antique, Apayao, Cagayan, Camarines Norte, Camarines Sur, Ifugao, Kalinga, Mt. Province, Nueva Vizcaya, and Romblon
- Enhanced 35 map sheets covering Albay, Antique, Camarines Norte, Camarines Sur, Catanduanes, Quezon, Romblon, and Sorsogon
- Completed geodatabase loading and integration, data monitoring and archiving, and buildup of geographic names database

Updated and cartographically enhanced topographic map of Mercedes in Camarines Norte province at 1:50,000 scale



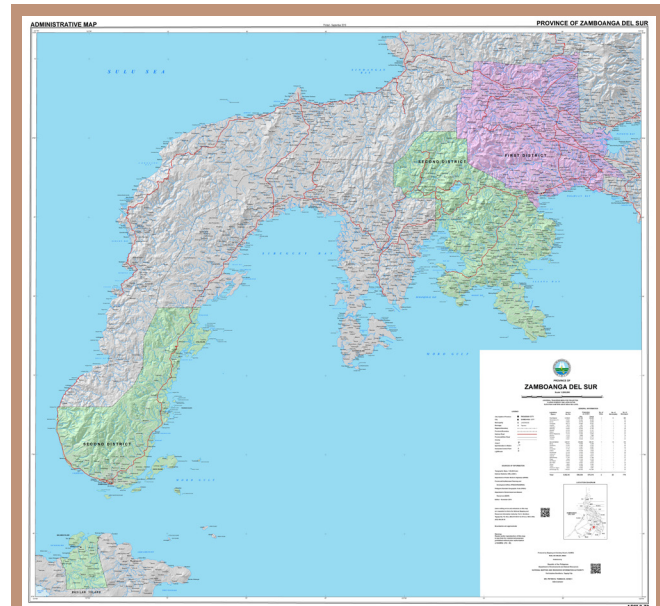


## Administrative/Special Mapping

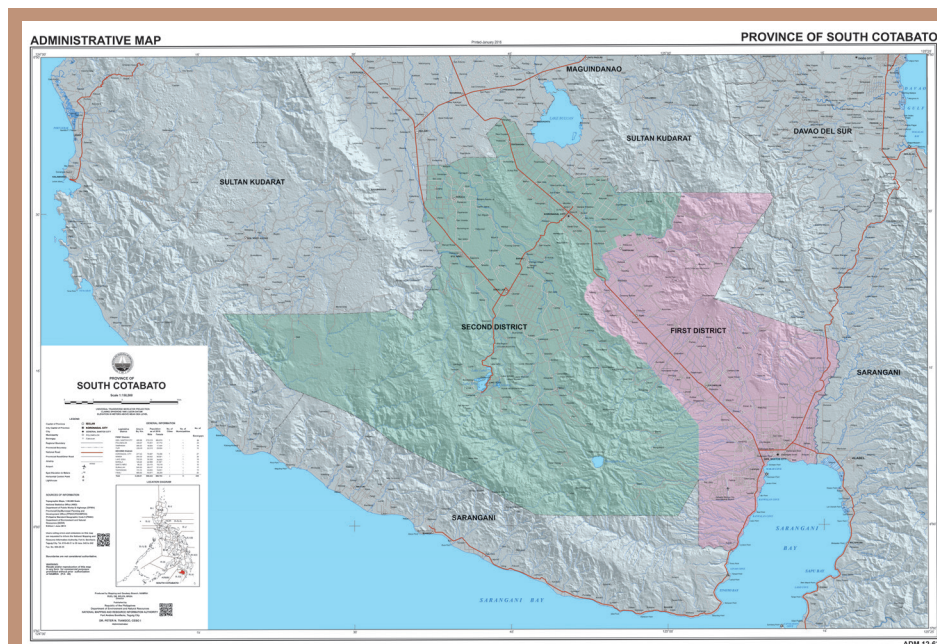
- Produced 12 provincial maps covering Agusan del Norte, Aklan, Bukidnon, Compostela Valley, Masbate, Misamis Occidental, South Cotabato, Sulu, Surigao del Norte, Tawi-tawi, Zamboanga del Norte and Zamboanga del Sur; and Mindanao Island map at scale 1:870,000
- Updated and produced 12 provincial maps and Mindanao map

## Printing of Topographic/Administrative Maps

- Reproduced/printed 179 sets of topographic, administrative maps and nautical charts
- Published printed copies of the 2016 Tide and Current Tables, NAMRIA centennial calendar, and NAMRIA 2016 calendar and planner



Updated administrative map of Zamboanga del Sur at 1:200,000 scale



Updated administrative map of South Cotabato at 1:150,000 scale



## HYDROGRAPHIC SURVEYS AND NAUTICAL CHARTING

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**U**nder this program, NAMRIA conducted hydrographic and oceanographic surveys; produced nautical charts and maritime publications; operated and maintained survey vessels, tide stations, and other related facilities. Technical data generated contribute to ensure safety of life at sea, support climate change mitigation and adaptation, and are used to delineate the country's different maritime zones. These also support the requirements for infrastructure development, environmental management, resource exploration, and scientific research.

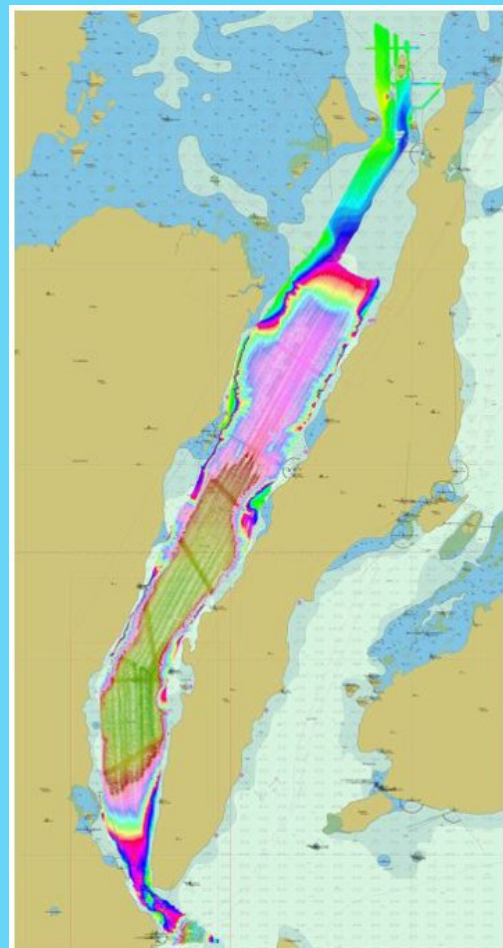


The following were accomplished during the year:

## Hydrographic Surveys

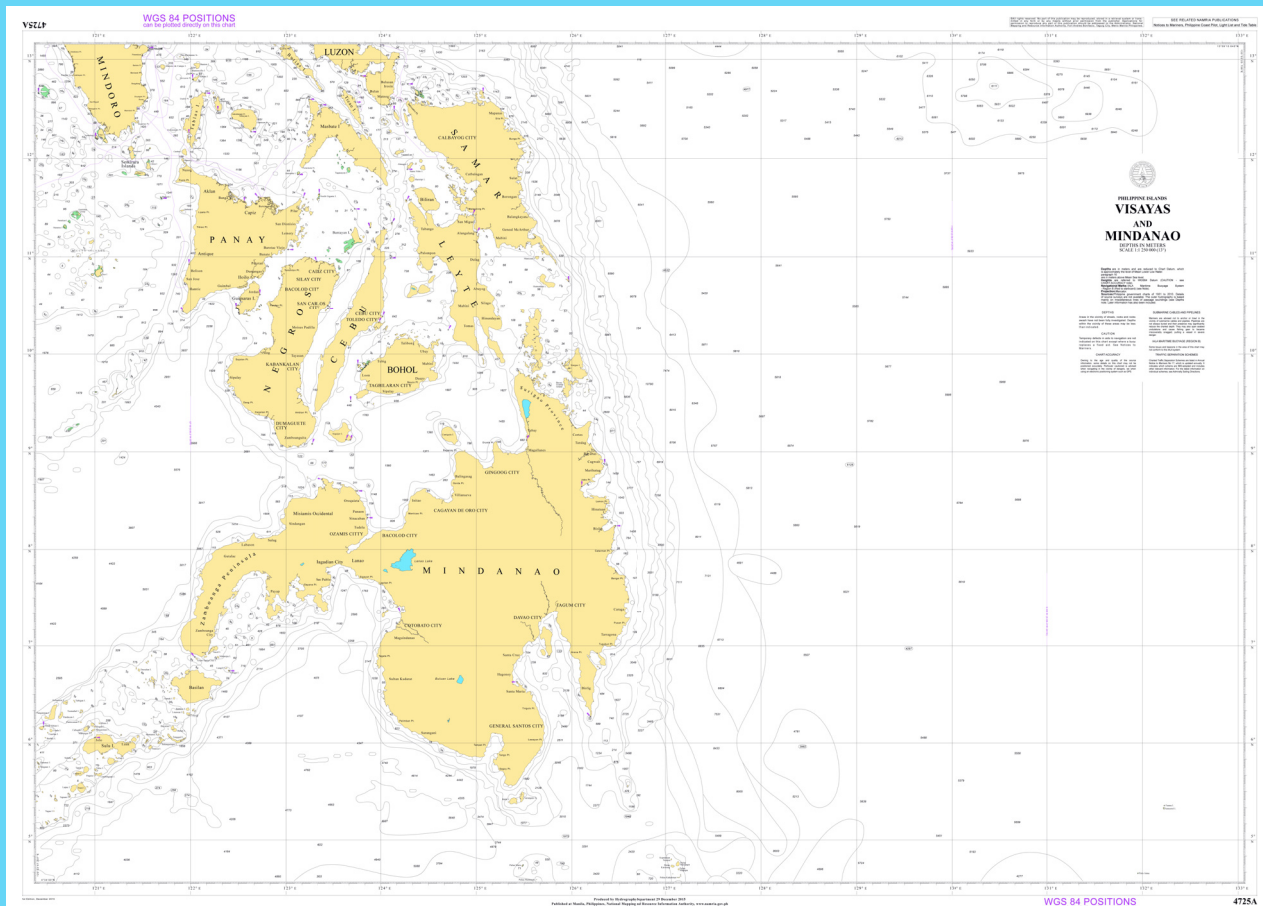
- Surveyed EEZ east of Samar covering 40,000 square km.; sealanes of Sibuyan Sea to Visayan Sea via Jintotolo Channel covering 1,964 square km., and Sibuyan Sea to Dumaguete City via Tañon Strait and Cebu City to Surigao covering 3,636.80 square km.
- Conducted hydrographic surveys on 5 ports and harbors: Corregidor Port, Manila North, Manila South, Ormoc, and Tacloban
- Collected 12-month magnetic values at the magnetic observatory in Muntinlupa City and re-observed 12 repeat stations
- Performed routine preventive and corrective maintenance of motor vehicles and 4 survey vessels including preventive maintenance of BRP Bantay Kalikasan

*Bathymetric survey of Tañon Strait conducted by BRPH Palma for the updating of the bathymetric data of navigational sea lanes*



## Nautical Charting

- Undertook data compilation and/or cartographic enhancement of the following charts:
  - 8 harbor charts: Caticlán, Dumangas, Loon, Ozamis, Romblon, Sasa Wharf, Tacloban and Tubigon
  - 5 coastal charts: chart nos. 1524, 1513, 1561, 1562, and 1563
  - 1 EEZ chart: chart no. 4725A
  - 2 approach charts: Tabaco Bay and Coal Harbor and San Pedro Bay
  - 2 general charts: chart nos. 5001 and 5002
  - 10 electronic navigational charts

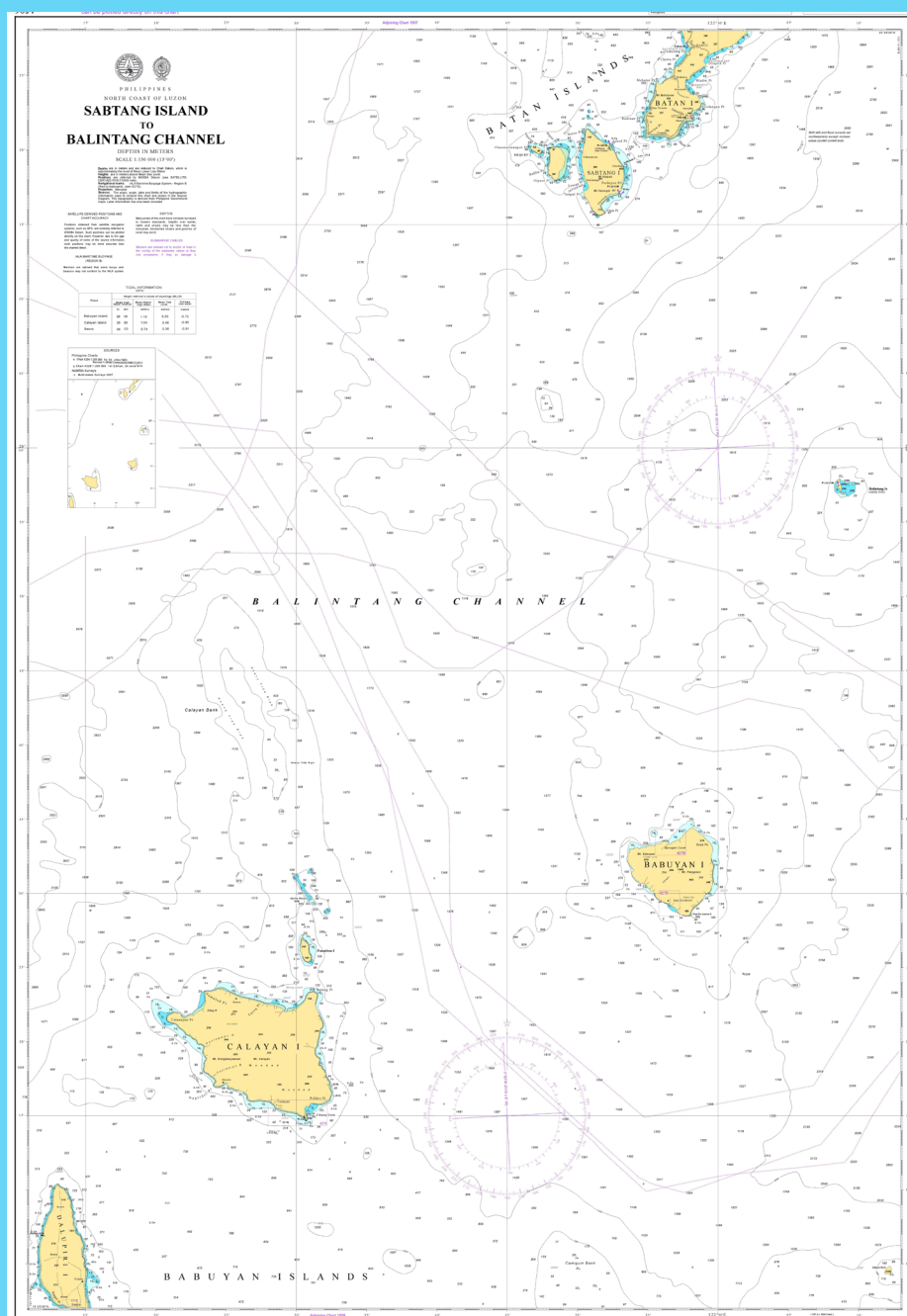


Updated EEZ Chart No. 4725A of Visayas and Mindanao at 1:250,000 scale



- Updated 8 coastal charts: chart nos. 1506, 1519, 1523, 1528, 1536, 1539, 1548, and 1549
- Updated miscellaneous navigational information in printed nautical charts

*Updated coastal chart no. 1506 of Sabtang Island to Balintang Channel at 1:150,000 scale*



## Maritime Publications

- Published 12 editions of Notices-to-Mariners (NTMs) and 2015 Edition of List of Lights
- Edited Volumes 1 and 2 of the Philippine Coast Pilot Book
- Completed delineation of archipelagic and internal waters
- Assisted 88 local government units on the delineation of their municipal waters
- Provided NTMs free of charge to the maritime public, including foreign hydrographic offices to ensure safety of life at sea and environmental protection



*A NAMRIA technical staff explains the procedures in the plotting of GPS positions in a nautical chart to the LGU representatives of Kalamansig, Sultan Kudarat, during the training on nautical chart reading and plotting held in May 2015*



## Physical Oceanographic Surveys

- Produced the 2016 Tide and Current Tables
- Inspected and releveled 44 tide stations
- Established 5 primary and 4 subordinate tide stations, repaired 3 and re-observed 6 tide stations
- Issued 40 certifications on tide level
- Downloaded and processed tidal datasets, and updated tidal information in nautical charts



*Establishment of a subordinate tide station in Talibon, Bohol*



*Relocation of a primary tide station in Balanacan, Mogpog, Marinduque*



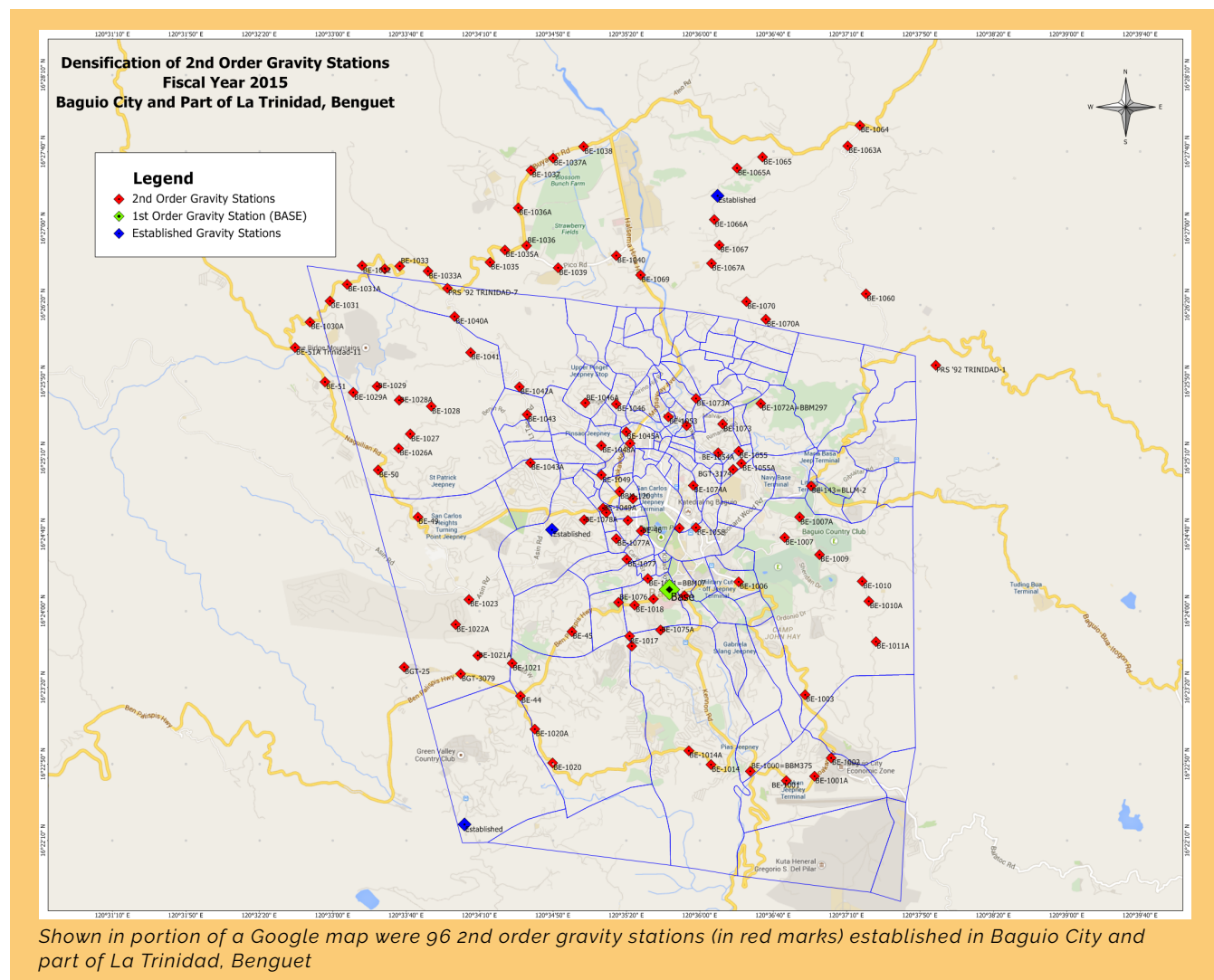
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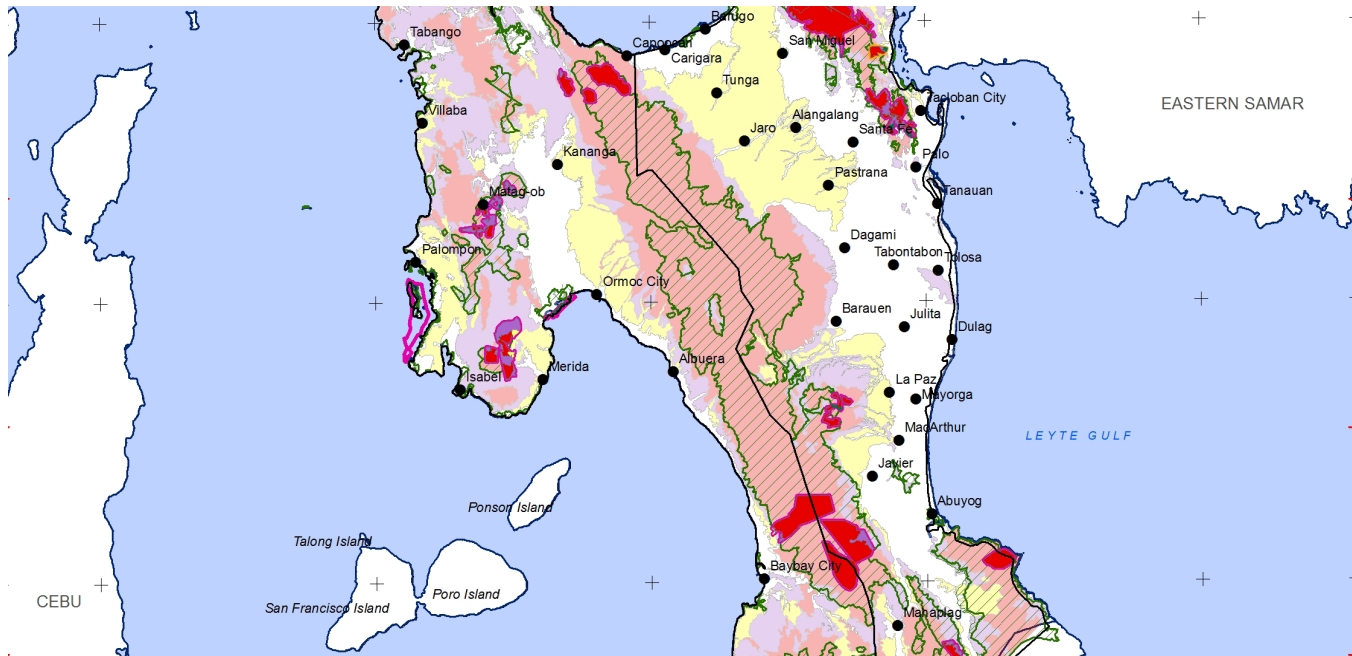


## Geodetic Network Development

The following were accomplished during the year:

- Re-observed 64 zero-order geodetic control points (GCPs), computed daily and monthly horizontal ground control points International Terrestrial Reference Frame 2008 solutions for 28 Active Geodetic Stations (AGS)
- Established 5 AGS, densified 500 2nd order gravity stations and revisited 6 AGS for gravity measurement
- Maintained 2,000 GCPs, 2,000 benchmarks (BM), and 28 AGS and control center for the operation of PageNET





## RESOURCE ASSESSMENT AND MAPPING

**N**AMRIA conducts nationwide land resource assessment and mapping of various thematic geospatial information on land cover, coastal resources, low-lying areas vulnerable to sea-level rise, and upland/forestland population, among others. Also included is the validation of protected areas and other ENR datasets. These fundamental datasets serve as vital inputs in 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 as well as technical assistance to DENR-national and DENR-Autonomous Region in Muslim Mindanao on the delineation of forestland boundaries in support to the legislation of the final limits of forestlands and national parks.

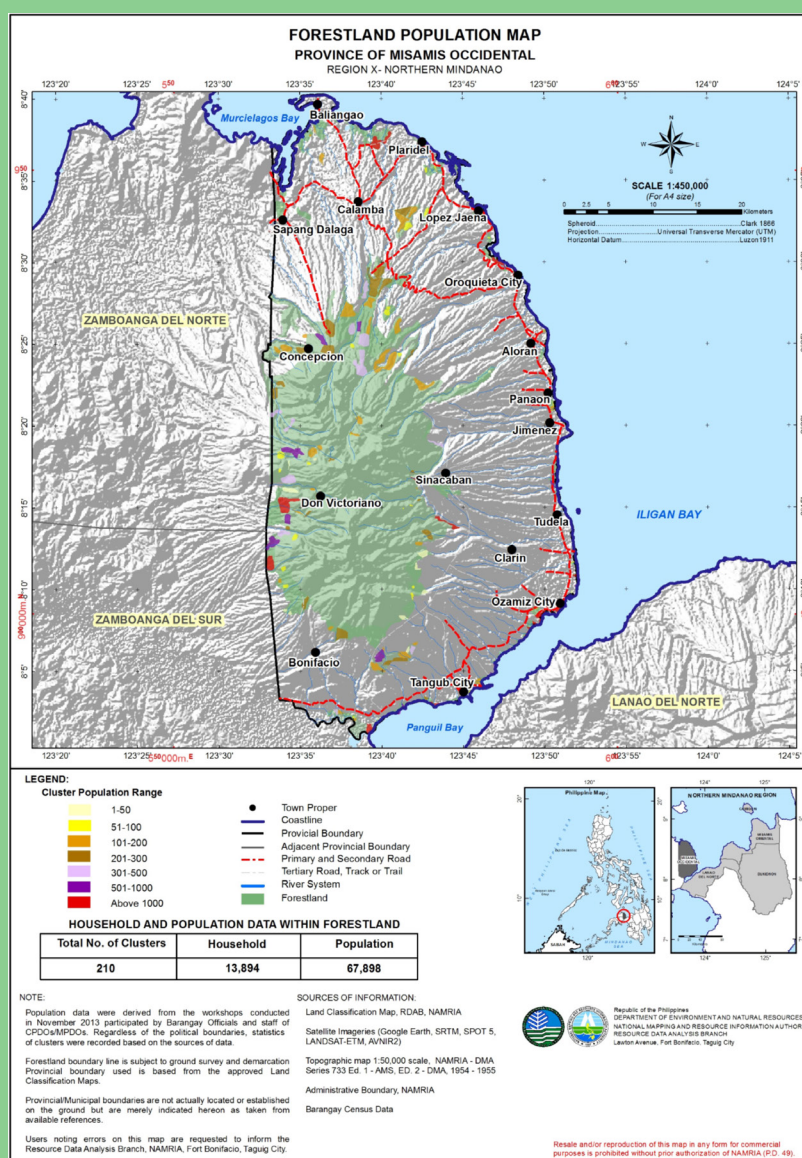


The following were accomplished during the year:

## Forestland Evaluation and Mapping

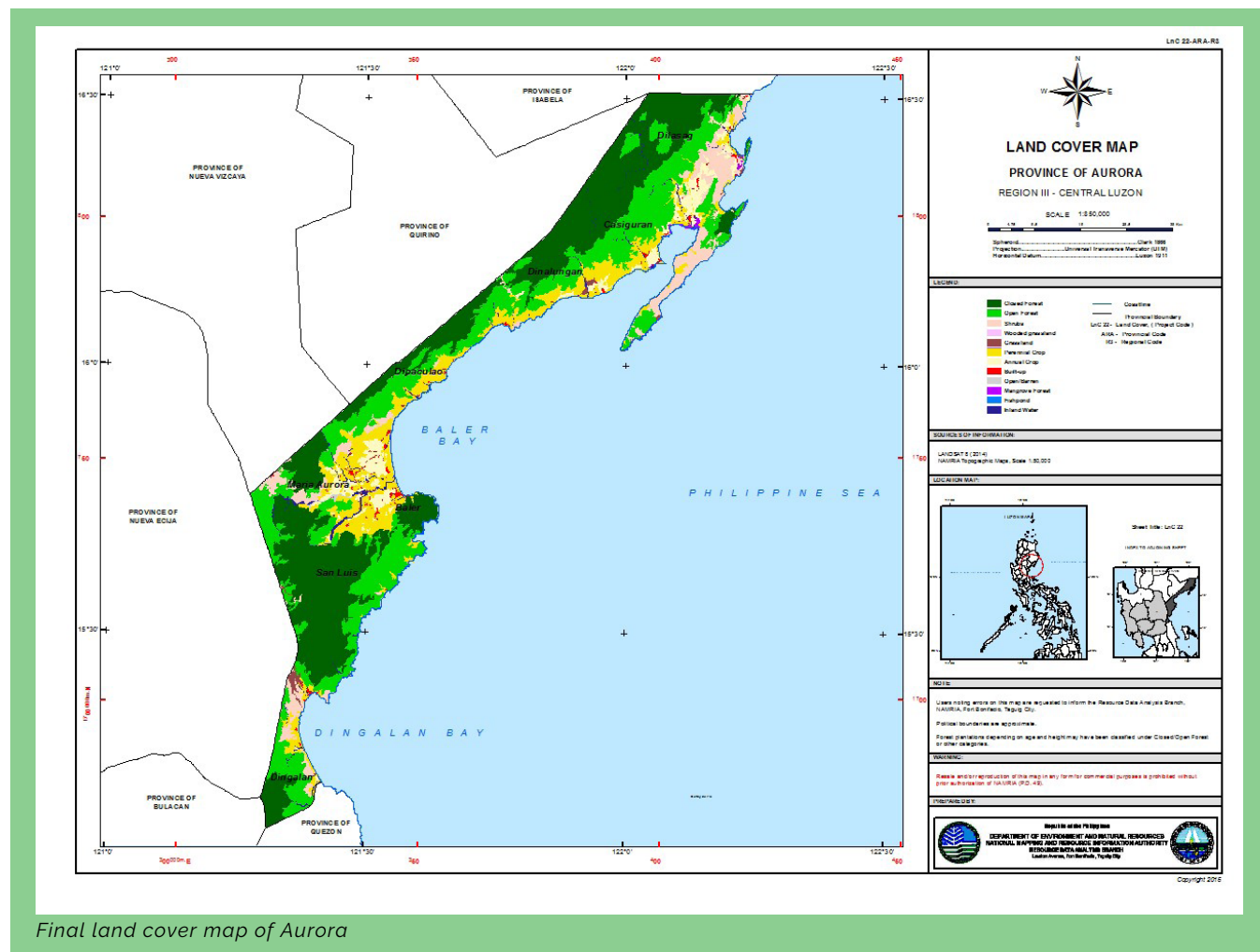
- Assessed regional map outputs and technical descriptions (TDs) of 20 provinces, validated and mapped 20 Protected Areas (PAs)
- Replotted Land Classification (LC) maps of 10 provinces and converted LC maps of 4 provinces into digital format
- Generated data on forestland population for 80 provinces and 2 cities
- Generated edge-matched and technical descriptions of forestland boundary delineation outputs for 75 provinces and 2 cities

Forestland Population Map of Misamis Occidental at 1:450,000 scale



## Land Cover Mapping

- Pre-processed, preliminary classified using LANDSAT 8, field verified and mapped the following 30 provinces: Abra, Albay, Apayao, Aurora, Batanes, Batangas, Benguet, Bohol, Bulacan, Cagayan, Camarines Norte, Camarines Sur, Catanduanes, Cavite, Cebu, Isabela, Kalinga, Laguna, Marinduque, Masbate, Nueva Vizcaya, Mindoro Occidental, Mindoro Oriental, Palawan, Pampanga, Quezon, Quirino, Rizal, Romblon, and Sorsogon
- Presented and validated preliminary land cover maps to DENR Regional Offices
- Printed final land cover maps of the following 20 provinces: Bataan, Biliran, Eastern Samar, Guimaras, Ifugao, Ilocos Norte, Ilocos Sur, Iloilo, La Union, Leyte, Mt. Province, Negros Occidental, Negros Oriental, Northern Samar, Nueva Ecija, Pangasinan, Southern Leyte, Tarlac, Western Samar, and Zambales

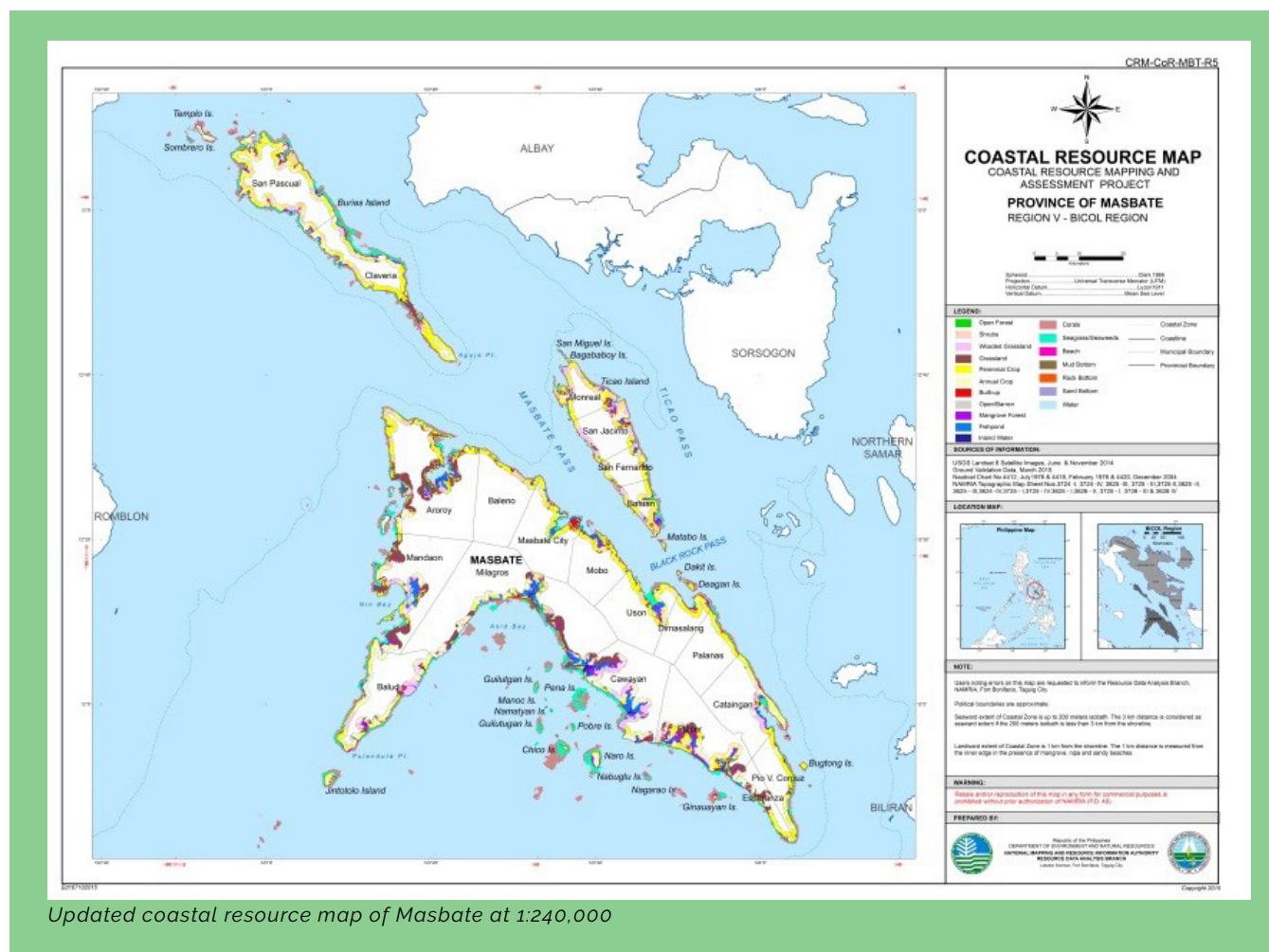


Final land cover map of Aurora



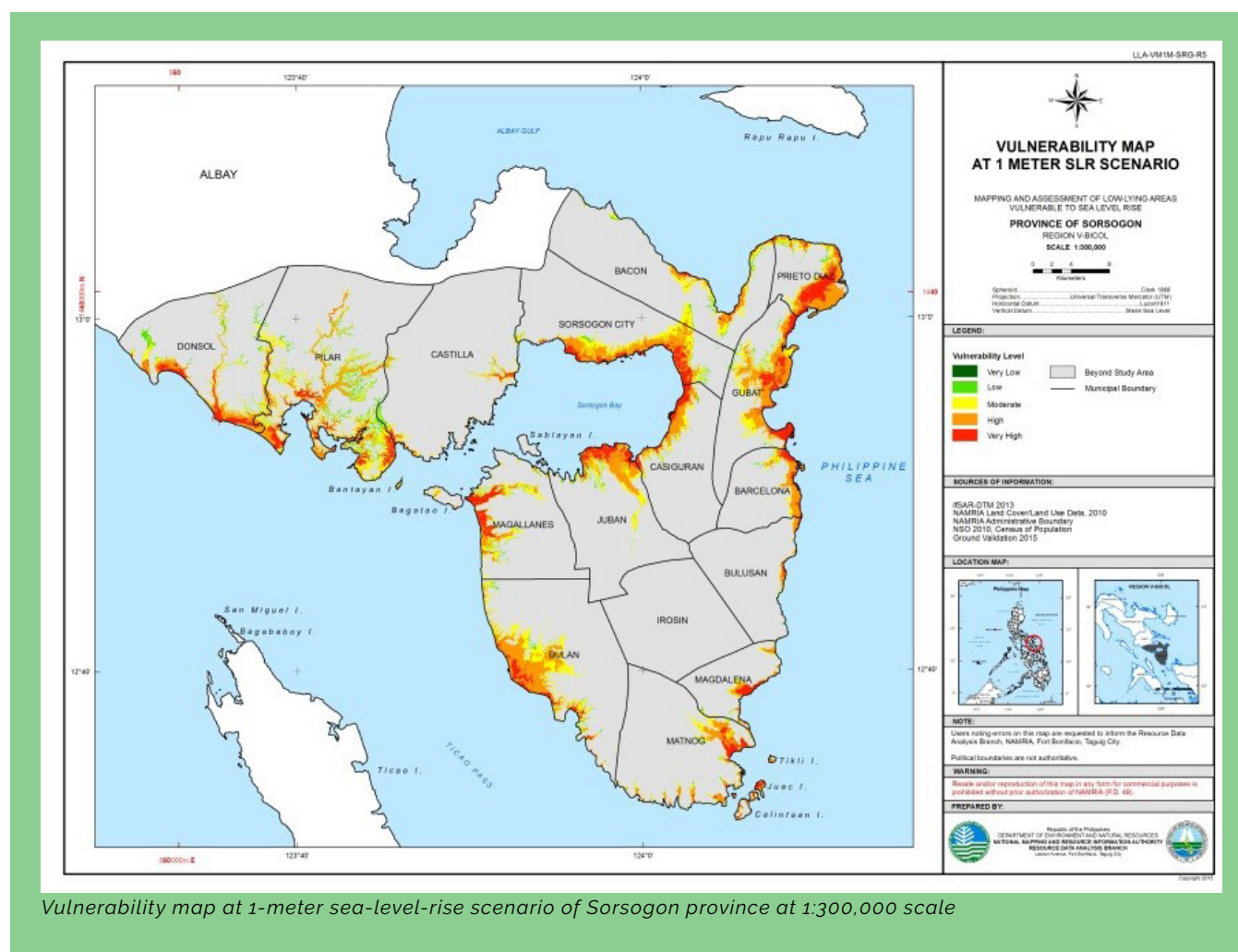
## Coastal Resources Mapping and Assessment

- Prepared preliminary map and conducted field survey, accuracy assessment, analysis, final map layout, printing, and archiving for the following 16 provinces: Bataan, Biliran, Bohol, Cebu, Eastern Samar, Guimaras, La Union, Leyte, Masbate, Northern Samar, Occidental Mindoro, Oriental Mindoro, Siquijor, Southern Leyte, Western Samar and Zambales
- Distributed copies of the Fiscal Year (FY) 2014 coastal resources map to the following 15 provinces: Agusan del Norte, Albay, Aurora, Camarines Norte and Sur, Camiguin, Catanduanes, Davao Oriental, Davao del Sur, Ilocos Norte, Isabela, Misamis Occidental, Sorsogon, Surigao del Norte and Sur



## Mapping and Assessment of Low-lying Areas Vulnerable to Sea-Level Rise

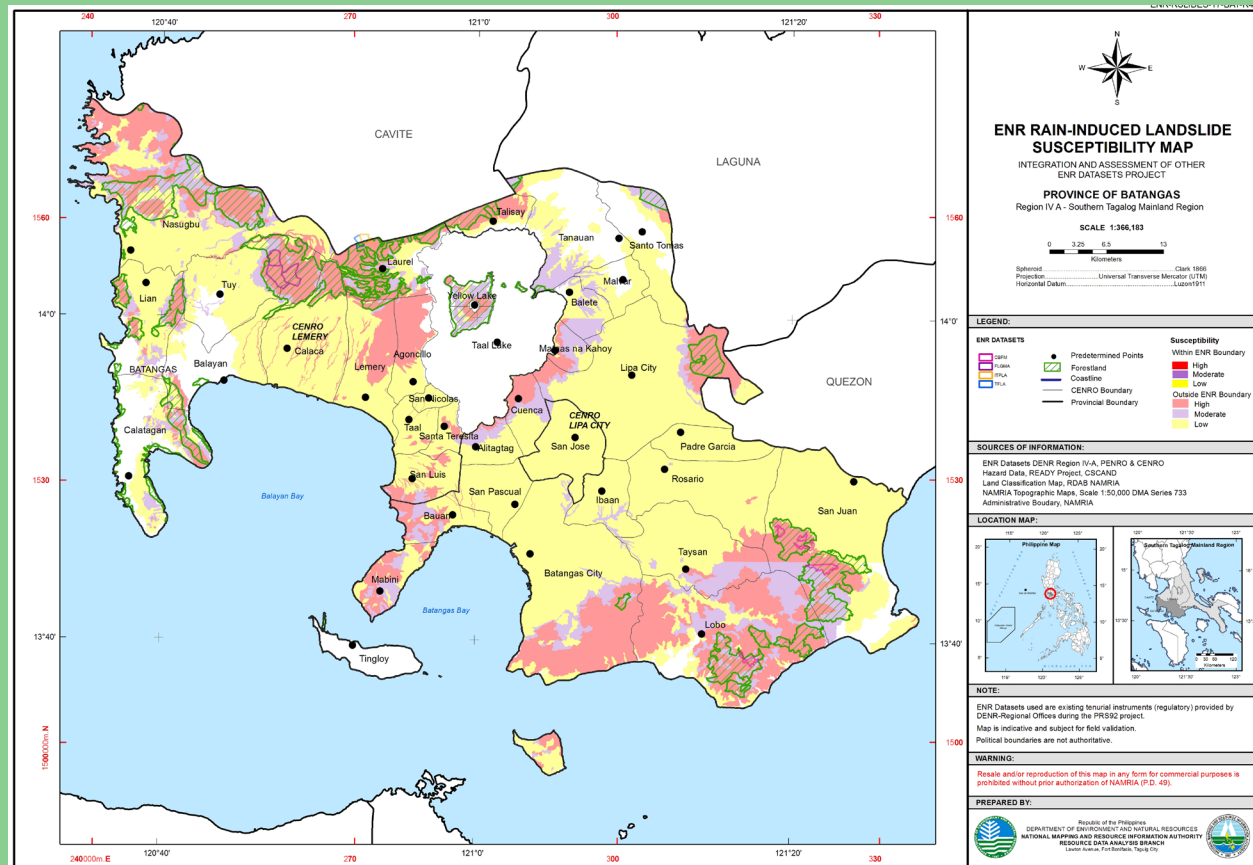
- Completed preliminary map preparation, field survey, accuracy assessment, integration, final map layout, printing, archiving, and distribution of low-lying areas vulnerability map for the following 10 provinces: Antique, Batanes, Biliran, Eastern Samar, Marinduque, Negros Oriental, Oriental Mindoro, Siquijor, Sorsogon, and Western Samar



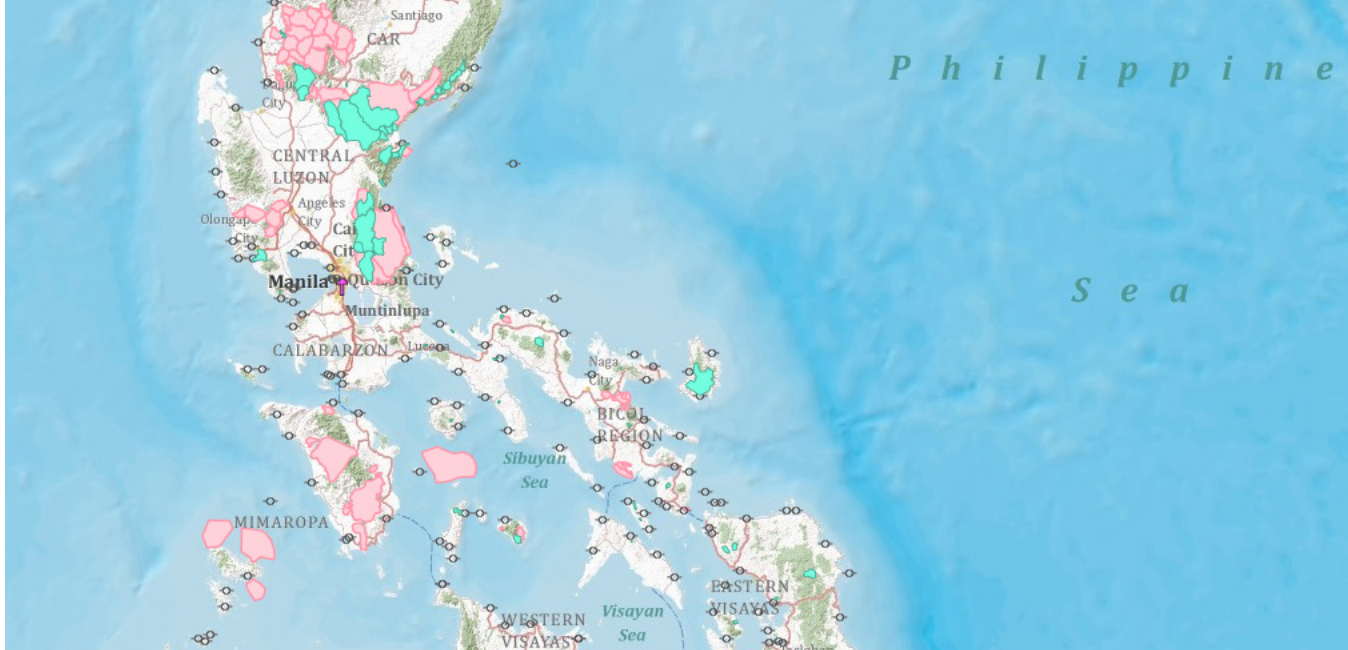


## Integration and Assessment of ENR Datasets

- Conducted inventory of existing land uses within forestland and of ENR data in the provinces of Batangas, Bohol, Bulacan, Eastern Samar, Leyte, Northern Samar, Southern Leyte, and Quezon



ENR rain-induced landslide susceptibility map of Batangas province at 1:366,183 scale



## GEOSPATIAL INFORMATION MANAGEMENT

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**N**AMRIA's geospatial information management functions include the development of geographic information systems (GIS) applications and databases; the management of web-based systems; the packaging of products and services; and the dissemination of geographic information to national government agencies, LGUs, the academe, the business sector, technical and scientific organizations, and the general public. The agency is also at the forefront of developing the Philippine Geoportal. The Philippine Geoportal envisions a common, web-based facility for sharing of geospatial information including online service for standard multiscale basemaps that can be used by various stakeholders for their thematic data integration.



The following were accomplished during the year:

## Information Systems Development and Maintenance

- Analysed 6 systems: NAMRIA Products and Services Information System (NPASIS), e-Form: LGU GIS, Philippine Geoportal System (PGS)v4, NAMRIA Provident Fund Information System (NPFIS), Property Acknowledgement Receipt Management System (PARMS), and Strategic Performance Information Management System (SPIMS)
- Designed 5 systems: NPASIS, PGSV4, NPFIS, PARMS, and SPIMS
- Developed 4 programs: NPASIS, PageNET Management System (PMS), PGSV4, and NPFIS
- Implemented 4 systems: NPASIS, PMS, PGSV4, and NPFIS
- Maintained 8 systems: Personnel Information System (PIS), Daily Journal Information System (DJIS), Document and Record Information Management System (DRIMS), Clearance Certificate System (CCS), Geodetic Network Information System (GNIS), Geomatics Training Center Information System (GTCIS), NAMRIA Web Content Management System (NWCMS), and NAMRIA Web Inquiry Monitoring System (NWIMS)
- Updated the NAMRIA website
- Uploaded transparency seal and good governance requirements, and prepared project proposal on NAMRIA vehicle monitoring system

(1) Screenshot of the PGSv4 Map Viewer showing a map of the Philippines with a sidebar for metadata and layers.

(2) Screenshot of the NPFIS (NAMRIA Provident Fund Information System) login page, featuring the NAMRIA logo and a login form with fields for Username and Password, and a Login button.

(3) Screenshot of the NGTCIS (NAMRIA Geomatics Training Center Information System) showing a 'List of Training Schedule' table.

	Training Code	Course Title	Venue	Start	Finish
Select	2014-GIS-01M-01-0001	BASIC GIS Using Manifold	NGTC	01/25/2016	01/29/2016
Select	2014-GIS-01A-01-0002	BASIC GIS Using ArcGIS	NGTC	01/25/2016	01/29/2016
Select	2015-TAG-01G-02-0002	Geotagging Training Course	NAMRIA Geomatics Training Center	02/14/2015	02/18/2015
Select	2015-GIS-03Q-09-0016	Advanced GIS using Quantum GIS	Icon Hotel	09/14/2015	09/18/2015
Select	2015-GIS-03Q-08-0014	Advanced GIS using Quantum GIS	Hotel Rembrandt, Quezon City	08/17/2015	08/21/2015
Select	2015-GIS-03Q-08-0013	Advanced GIS using Quantum GIS	Hotel Rembrandt, Quezon City	08/03/2015	08/07/2015
Select	2015-GIS-03Q-06-0009	Advanced GIS using Quantum GIS	NAMRIA Geomatics Training Center	06/22/2015	06/24/2015

Screenshots of (1) PGSv4, (2) NPFIS, and (3) NGTCIS developed by the Geospatial Systems Development Division-Geospatial Information System Management Branch

## Geospatial Database Development and Maintenance

- On the geospatial data holdings buildup:
  - Validated 271 metadata records and created 78 new metadata records
- On the Philippine Islands Database buildup:
  - Conducted field verification of the Philippine Islands Database records for the provinces of Catanduanes, Cebu, Masbate, and Surigao del Sur
- On the Philippine Geoportal Project- One Nation One Map database buildup and development:
  - Validated 166 tiles of building footprints based on MMDA 2003 and Risk Analysis Project (RAP) Land Use Polygon
- On LGU GIS Capability Inventory:
  - Field-validated 4 provinces based on survey returns collected from LGUs



*Shown in the orthoimage map are tiles of building footprints based on MMDA 2003 and RAP Land Use Polygon*



## Geographic Information Services and Production of NAMRIA IEC Materials

➤ On promotions, marketing, and client service provision:

- Prepared 4 quarterly and inventory reports on the operation of NAMRIA Geomatics Training Center (NGTC) and Map Sales Offices; and conducted 16 trainings (regular/special/MOA-based)
- Conducted 1 information campaign activity for NAMRIA Products and Services and 11 tour of facilities
- Disposed a total of 1,471 kilos agency-wide records with retention period



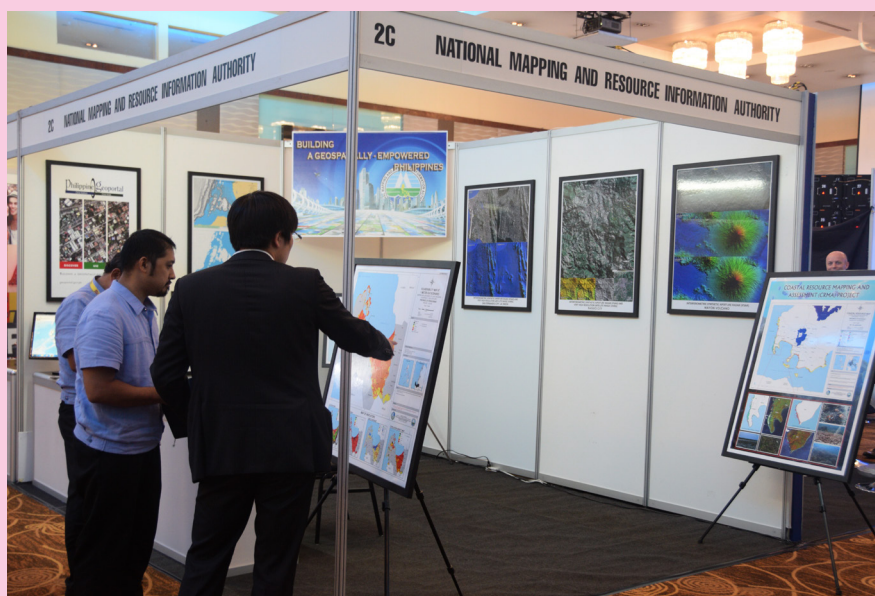
*IEC materials published and disseminated in CY 2015*



*IEC campaign for NAMRIA products and services at FEATI University on 23 September 2015*

- On the information, education, and communication (IEC) materials production:
  - Prepared and printed the NAMRIA FY 2014 Annual Report, Infomapper, 75 Newscoop articles, and 11 speeches/messages
  - Published 3 news/photo releases
  - Setup 4 photo/map exhibits, conducted 196 photo and 75 video documentation, and prepared 13 graphic arts/digital layout design for various NAMRIA projects and events/activities

*Map exhibit for the 36th Asian Conference on Remote Sensing held at Crown Plaza on 19-20 October 2015*



## Information and Communications Technology Resource Management

- Performed preventive and corrective maintenance of 1,272 computer systems
- Updated inventory list of computer systems and ICT resources
- Conducted administration, monitoring, and troubleshooting of network/data center; and maintained ICT infrastructure support for PGP Phase III





## GENERAL ADMINISTRATION AND SUPPORT SERVICES

General Administration and Support Services are crucial to the efficient implementation of NAMRIA's mandated functions. *Policy and Planning Services* encompass overall strategic and operational policy formulation, planning, and strategic studies that aim to ensure that NAMRIA's programs, activities, and projects are aligned with national thrusts and priorities, implemented efficiently and effectively, and in compliance with government regulations on budgeting. *Financial and Management Services* take charge of NAMRIA's budget program; the formulation, review, and recommendation to top management for policies, guidelines, systems, and procedures related to budgeting; the attendant reporting requirements; fiscal control involving the receipts and disposition of government funds and properties; periodic examination of the financial system; and review of the internal control system for safeguarding money and property. *Administrative Services* involve the formulation and implementation of policies, programs, guidelines, rules and regulations pertaining to human resource management and development; management of goods and services; records management; library management; and cash management. Programs are aligned and supportive of the strategic initiatives of the agency, thus, providing a sufficient pool of competent human resources and enhanced organizational capacity. Finally, *Engineering Services* deal with the development, upgrading, and maintenance of information technology equipment and technical and communications equipment; management and operation of the motor pool; and repair and maintenance of motor vehicles including buildings and facilities.

The following were accomplished during the year:

## **Policy and Planning Services**

- Prepared FY 2016 Planning Guidelines and Budget Proposal, and FY 2016-2018 Forward Estimates for submission to the Department of Budget and Management (DBM)
- Participated in the series of workshops, meetings, and technical budget hearings related to the proposed 2016 budgets
- Participated in the drafting of the proposed DENR Program Expenditure Classification Framework Structure
- For the implementation of the Strategic Performance Management System, provided inputs to the series of meetings of the Performance Management Team, and prepare the NAMRIA 2015 Office Performance Commitment and Review efficiency rating
- For the Project NAMRIA Quality Management and Operations Manual (NQMOM) project, turned over the following outputs: Volume 1: Management Processes, Volume 2: Core Processes, and Volume 3: Support Processes
- Reviewed and collated monthly accomplishment reports submitted by line branches vis-à-vis targets
- Prepared FY 2014 Annual Accomplishment Report, FY 2015 First Semester Accomplishment Report, January to December 2015 Physical Performance Report, Quarterly Report on Government Projects/Programs/Activities, and Quarterly Physical Report of Operation
- Conducted field inspection for various projects of NAMRIA

*Program Review and Analysis and Management Review held at the NAMRIA Lecture Hall on 11 August 2015*





## Financial and Management Services

- Prepared, processed, and submitted check disbursement, advice of checks issued, Advice to Debit Account (ADA), ATM payroll, and the following: Report of Checks Issued and ADA, Disbursement, Accountability, Daily Cash Position, and Collection
- Deposited daily sales and collection to the Land Bank of the Philippines
- Processed Statement of Allotment, Obligations and Balances, and vouchers for end users and suppliers
- Prepared Disbursement and Income Reports', Financial Accountability and Operational Reports', Taxation Reports, and remittances to collecting agencies (Government Service Insurance System, Bureau of Internal Revenue, PhilHealth, etc.)
- Submitted budget proposals
- Pre- and post-audited all travel and field work-related documents

## Administrative and Security Services

- On Human Resource Development:
  - Conducted workshops/trainings on employee engagement, coaching and mentoring, HR intervention, and CSC review for non-career employees;
  - Continued coordination and participation with the Philippine Australian Human Resource Organizational Development Facility and universities/academe
- On Human Resource Management:
  - Integrated the Competency-Based System (CBS) to recruitment, selection, and placement, and learning and development;
  - Prepared documents for Job-Order employees
  - Processed employee benefits (Productivity Incentive Bonus, Loyalty Award, and clothing allowance), quarterly leave credits, and Performance-Based Bonus based on the Individual Performance Commitment and Review efficiency rating

*Seminar-Workshop on Career Pathing and Succession Planning held at the NAMRIA Lecture Hall on 29 June 2015*



- Coordinated the submission of Statement of Assets, Liabilities and Net Worth
- Prepared HR reports required by CSC, DBM, the Career Executive Service Board, and DENR
- Prepared the CBS Job Description Manual
- On Management of Goods and Services:
  - Prepared/processed purchase orders (POs), work orders (WOs), abstract of bids, and Annual Procurement Plan (APP)
  - Conducted inventory on NAMRIA property, plant and equipment, and Supplier/Product Evaluation Survey
  - Acted as Secretariat for Bids and Awards Committee
  - Implemented the Document and Records Information Management System (DRIMS)
  - Disseminated issuances via the NAMRIA webmail
  - Maintained and supervised the NAMRIA Library and the NAMRIA museum
  - Facilitated the conduct of Annual Physical Examination for NAMRIA personnel
- On Security Services:
  - Implemented various rules and regulations such as the wearing of prescribed uniforms, security tags for NAMRIA employees and visitors, and vehicle control tags for guests/clients

## Engineering Services

- Performed 36 preventive and 9 corrective maintenance procedures for technical units, 4/21 communications equipment, 8 office machines, 4 units of VHF Radio Repeater, DORIS Beacon, 10 Tide Stations, and 14 AGS
- Installed 5 AGS instruments
- Repaired 2 telemetry instruments and 19 AGS instruments
- Maintained and repaired buildings, appurtenances, grounds and air conditioning/plumbing facilities
- Performed 334 preventive and 132 corrective maintenance procedures for NAMRIA vehicles
- Served transportation needs of officials and employees



*Preventive maintenance for AGS in Catarman, Northern Samar*

## SPECIAL/LOCALLY-FUNDED PROJECTS AND INTERVENING ACTIVITIES

In fulfilling its core functions, NAMRIA is implementing several special/locally funded projects with other agencies. Below are these projects with their respective accomplishments for Calendar Year 2015:

### On Topographic Base Mapping

- Provided various maps and map data services to different LGUs, government agencies, and private entities
- Issued 4,515 certifications on control stations as references for survey and mapping activities

### On Resource Assessment and Mapping

- Attended LC-related court hearings
- Provided land cover maps per client request

December 14, 2015

**CERTIFICATION**

To whom it may concern:

This is to certify that according to the records on file in this office, the requested survey information is as follows -

Province: <b>NEGROS OCCIDENTAL</b> Station Name: <b>NW-149</b>		
Island: <b>VISAYAS</b>	Municipality: <b>CITY OF VICTORIAS</b>	Barangay: <b>BARANGAY I (POB.)</b>
Elevation: <b>5.8838 +/- 0.03 m.</b>	Order: <b>1st Order</b>	Datum: <b>Mean Sea Level</b>
Latitude: <b>10° 53' 58.01000"</b>	Longitude: <b>123° 4' 8.41000"</b>	

Location Description


BM NW-149 is in the province of Negros Occidental, City of Victorias, Barangay 1 (Poblacion), along Osmeña Avenue.

Station is located on top of concrete sidewalk, Northeast end of Magnanod bridge, 0.30 meter above the ground, 7 meters North of the road centerline, approximately 350 meters Northwest of Cityhall of Victorias.

Mark is the head of a 4" copper nail set on a drilled hole and cemented on top of a 6" x 6" cement putty with inscription "NW-149, 2007, NAMRIA".

Requesting Party: **RASA Surveying**  
Purpose: **Reference**  
OR Number: **8088890 I**  
T.N.: **2015-4141**

**RUEL OM. BELEN, MNSA**  
Director, Mapping And Geodesy Branch



NAMRIA OFFICES:  
Main: Laceran Avenue, Fort Bonifacio, 1634 Taguig City, Philippines Tel. No. (02) 810-4831 to 41  
Branch: 401 Benigno S. Aquino Jr. Highway, 1010 Manila, Philippines Tel. No. (02) 241-3486 to 88  
www.namria.gov.ph  
ISO 9001:2008 CERTIFIED FOR MAPPING AND GEOSPATIAL INFORMATION MANAGEMENT

December 15, 2015

**CERTIFICATION**

To whom it may concern:

This is to certify that according to the records on file in this office, the requested survey information is as follows -


Province: <b>QUEZON</b> Station Name: <b>QZN-48</b> Order: <b>2nd</b>		
Island: <b>LUZON</b>	Barangay: <b>POBLACION</b>	
Municipality: <b>SAN FRANCISCO</b>	MSL Elevation:	
<b>PRSS92 Coordinates</b>		
Latitude: <b>13° 20' 49.14220"</b>	Longitude: <b>122° 36' 54.47955"</b>	Ellipsoidal Hgt: <b>2.99300 m.</b>
<b>WGS84 Coordinates</b>		
Latitude: <b>13° 20' 44.14514"</b>	Longitude: <b>122° 36' 59.47203"</b>	Ellipsoidal Hgt: <b>53.71500 m.</b>
<b>PTM / PRS92 Coordinates</b>		
Northing: <b>1475994.454 m.</b>	Easting: <b>447474.766 m.</b>	Zone: <b>4</b>
<b>UTM / PRS92 Coordinates</b>		
Northing: <b>1,475,467.83</b>	Easting: <b>447,493.15</b>	Zone: <b>51</b>

Location Description

QZN-48 is located at the offshore end of the concrete pier of Brgy. Poblacion, San Francisco. It is about 800 m. W of the municipal hall and 500 m. E of the municipal lighthouse. The Smart Telecom celltower is located 200 m. E of the station. Mark is the head of a 4 in. copper nail centered on a 30 cm. x 30 cm. cement putty flushed on the ground, with inscriptions "QZN-48 2006 NAMRIA".

Requesting Party: **Geotrek Surveying Services**  
Purpose: **Reference**  
OR Number: **8088890 I**  
T.N.: **2015-4143**

**RUEL OM. BELEN, MNSA**  
Director, Mapping And Geodesy Branch



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Sample certifications on control stations issued as references for survey and mapping activities; Shown are: (left) certification for BM NW-149 and (right) certification for 2nd-order station QZN-48



## On Hydrographic Surveys and Nautical Charting

- Collected 12-month record 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)
- Provided technical assistance to the Municipality of Sta. Cruz and Occidental Mindoro in the delineation of municipal waters
- Conducted coast pilot survey in Limay and Mariveles, Bataan
- Inspected and maintained IOC tide stations in Manila, Legazpi, and Davao in collaboration with the University of Hawaii Sea Level Center
- Accommodated tours for various colleges and universities which were requested through the Subic Bay Metropolitan Authority (SBMA) and the Department of Tourism
- Issued the following as part of client services:
  - Navigational warnings to mariners through NAVAREA XI Coordinator in Japan
  - Tidal information



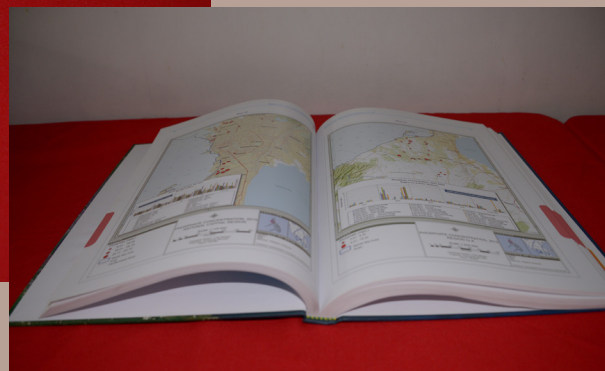
*Prevention and maintenance of the IOC tide station located in Davao*

## On Geospatial Information Management

- Provided technical assistance for the Updating of Manila Bay Environmental Atlas (MBEA) Project:
  - Presented the updated MBEA to DENR EXECOM
  - Printed 500 copies
  - Turned over final printed copies to the Manila Bay Coordinating Office
- Collective Strengthening on Community Awareness on Natural Disasters (CSCAND) Project:
  - For the first component - Enhancing Greater Metro Manila Area (GMMA) Institutional Capacities for Effective Disaster/Climate Risk Management towards Sustainable Development or GMMA Ready Project:
    - Provided 567 map layouts covering Metro Manila and the provinces of Bulacan, Cavite, Laguna and Rizal
  - Printed 1,000 hazard maps
  - Delivered digital copies for the first component to the Office of Civil Defense
- For the second component
  - Enhancing Risk Analysis Capacities for Flood, Tropical Cyclone Severe Wind and Earthquake for GMMA (Phase II) Bridging Project:
    - Provided technical support to the Philippine Institute of Volcanology and Seismology and to Muntinlupa City in the enhancement of the exposure database
    - Conducted various workshops
    - Submitted a technical report



Updated Manila Bay Environmental Atlas





## GENDER AND DEVELOPMENT

NAMRIA, in partnership with the DENR and other concerned institutions, conducted and participated in various Gender and Development (GAD) programs/activities. The GAD program aims to heighten the awareness and understanding of the employees on GAD concepts and agenda, such as the protection of children and the enhancement of the role of women in the various endeavors of the agency.



Accomplishments under the NAMRIA GAD program are as follows:

- Prepared Sex-Desegregation Data report on involvement of women employees in project design and implementation
- Reviewed gender-responsiveness and impact of policy on "Acceptance of Women in the Commissioned Service"
- Conducted workshops/trainings on Harmonized GAD Guidelines/ Gender Analysis and Gender Sensitivity
- Facilitated the conduct of lectures on: a) Family Lifestyle Management on Legal Rights, and Financial Management; b) Public Sector Unionism; and c) Health and contests on photo and quiz bee
- Through the NAMRIA Day Care, continued to serve the needs of 30 children and dependents of employees



(Photo 1) GAD Fun Run, (Photo 2) NAMRIA Day Care preschoolers, (Photo 3) Top Management Reorientation on Gender and Development and (Photo 4) NAMRIA GAD Quiz Bee



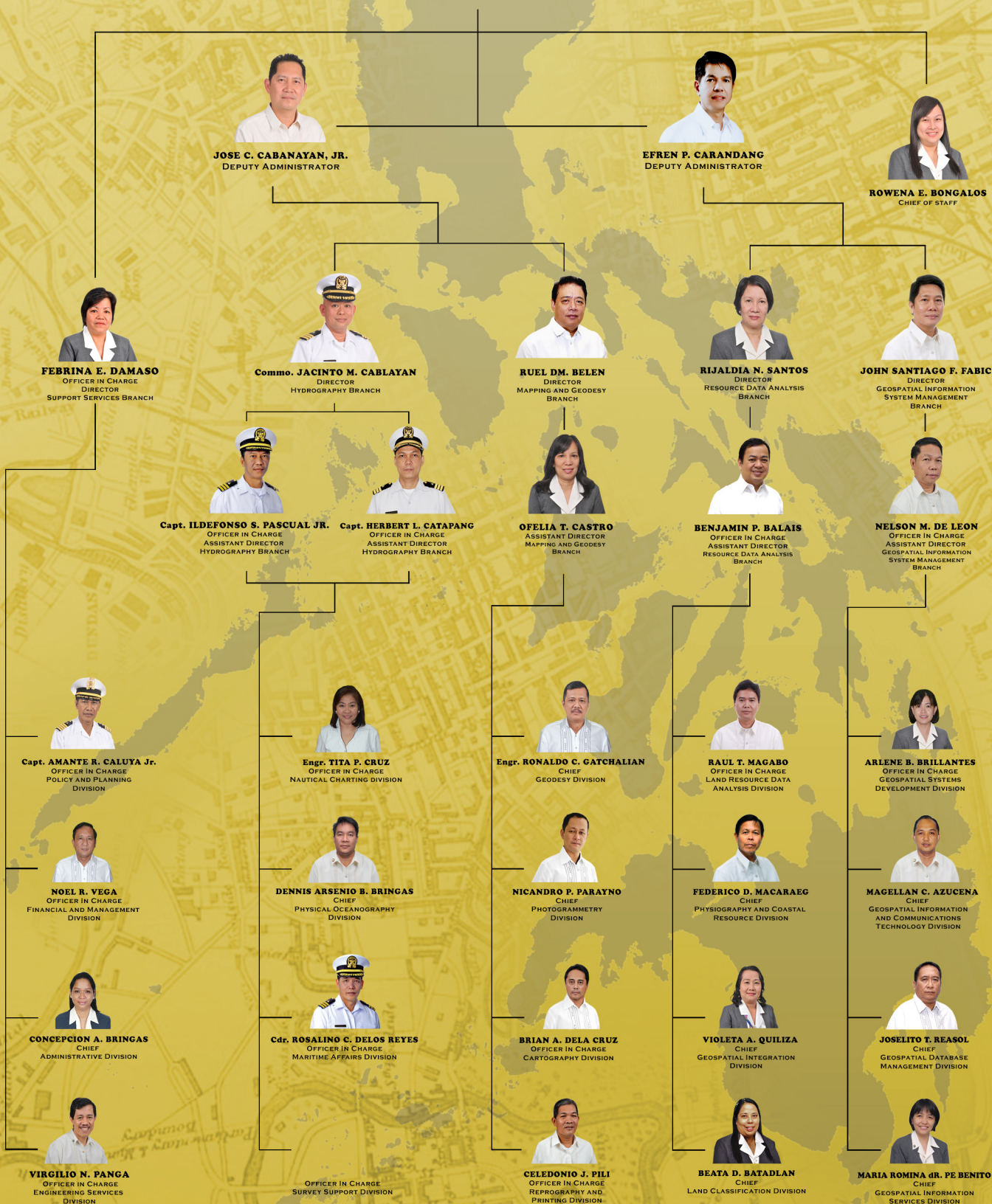


# NAMRIA

## ORGANIZATIONAL CHART



**DR. PETER N. TIANGCO, CESO I**  
Administrator





# Scaling



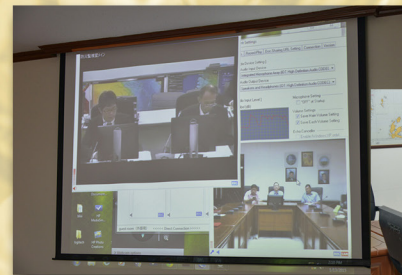
**Commissioning of two new survey vessels - BRPH HIZON and BRPH PALMA**



**Passing 6<sup>th</sup> ISO surveillance audit**



**Signing, Launching and Cascading of NAMRIA Strategic Human Resource Development Plan**



**Holding of video conference with Japan Geospatial Information Authority**



**Civil Service Commission awarding of Certificate of Collective Negotiation Agreement Registration**



**Hosting of Remote Sensing Workshop for Resource Assessment and Land Cover Mapping**



# greater heights in 2015



**House of Representatives commending NAMRIA and other key agencies through House Resolution No. 174**



**Tree planting in Tanay, Rizal in support of National Greening Program**



**Hosting of two international events - 12th EAHC conference and 4th TRDC BOD meeting**



**Celebrating the 2015 Women's Month with the theme, "Juana, Desisyon Mo ay Mahalaga sa Kinabukasan ng Bawat Isa, Ikaw Na!"**



**Presenting "Availability and Accessibility of Geospatial Foundation Data" at 2015 GIS Forum**



# FINANCIAL REPORT

## STATEMENT OF FINANCIAL POSITION ALL FUNDS AS OF DECEMBER 31, 2015 (With Comparative Figures for 2014)

	2015	2014
<b>ASSETS</b>		
<b>Current Assets</b>		
Cash and Cash Equivalents	P 72,387,845.45	P 80,684,804.50
Receivables	72,557,136.78	20,114,705.78
Inventories	219,623,808.28	203,904,539.18
Investments		
Other Current Assets	25,673,658.38	85,253,299.02
<b>Total Current Assets</b>	<b>390,242,448.89</b>	<b>389,957,348.48</b>
<b>Non-Current Assets</b>		
Property, Plant and Equipment	2,010,482,679.14	2,153,195,590.74
Intangible Assets	1,176,073,161.13	147,829,519.47
Other Non-Current Assets	-	688,428.00
<b>Total Non-Current Assets</b>	<b>3,186,555,840.27</b>	<b>2,301,713,538.21</b>
<b>Total Assets</b>	<b>P 3,576,798,289.16</b>	<b>2,691,670,886.69</b>
<b>LIABILITIES</b>		
<b>Current Liabilities</b>		
Financial Liabilities	P 187,741,283.57	105,588,964.80
Inter-Agency Payables	64,980,085.78	17,748,620.88
Deferred Credits		
Other Payables	5,677,990.59	9,001,597.97
<b>Total Current Liabilities</b>	<b>258,399,359.94</b>	<b>132,339,183.65</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>258,618,542.29</b>	<b>132,558,366.00</b>
<b>Net Assets/Equity</b>		
Accumulated Surplus/(Deficit)	3,318,179,746.87	2,559,112,520.69
<b>Total Net Assets/Equity</b>	<b>3,318,179,746.87</b>	<b>2,559,112,520.69</b>
<b>TOTAL LIABILITIES AND NET ASSETS/EQUITY</b>	<b>P 3,576,798,289.16</b>	<b>P 2,691,670,886.69</b>



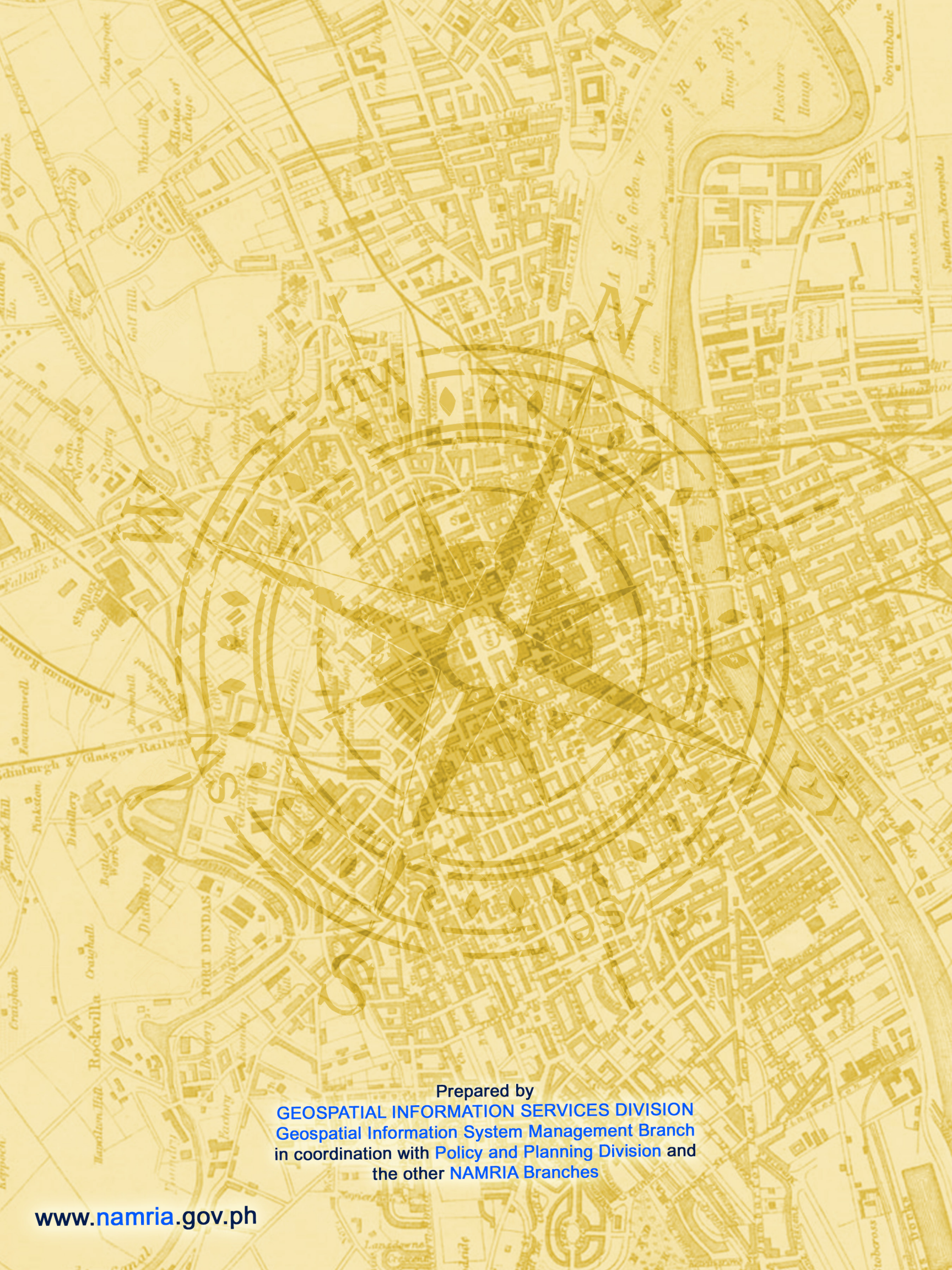
## MAP Sales Offices

REGION	ADDRESS	MSO STAFF	CONTACT NUMBER
(Main) Taguig City	Lawton Avenue, Fort Bonifacio	Celeste Barile, Ph.D. Julieta Palustre Ana Victoria Labor Sheila Mae Lopez Arnold Mauricio	(02) 810 48 31 to 42, local 431 (02) 810 54 67
Manila	421 Barraca Street, San Nicolas	PO3 Samson Navidad Esmeraldo Briones Romeo Brizuela Glenn De Jesus Francis Marvin Estabillo	(02) 245 94 98 (02) 241 34 94, local 117
Quezon City	DENR-FMB Compound Visayas Avenue	Cielito Valino	(02) 925 11 57
Cordillera Administrative Region - Baguio City*	DENR-CENRO, Forestry Compound Cottage 1, Gibraltar Road Barangay Pacdal		
Region I - La Union	DENR Government Center Barangay Sevilla City of San Fernando	Bona Perez	0999 405 69 17
Region II - Cagayan*	DENR-Land Evaluation Party Building II, Barangay Carig Tuguegarao City		
Region III - Nueva Ecija**	GIS Room, WRMC Building Central Luzon State University Compound, Maharlika Highway Science City of Muñoz		
Region III - Pampanga	Diosdado Macapagal Government Center Barangay Maimpis City of San Fernando	Lily Pineda	0910 372 56 23
Region IVA - Batangas	Provincial Planning and Development Office Capitol Complex, Batangas City	Marcelina Cenisa Aguda	0919 925 09 07 0922 865 00 55
Region IVB - Palawan	DENR-PENRO Barangay Santa Monica Puerto Princesa City	Wamalaida Talabucon	0928 754 53 63
Region V - Albay	DENR Operation/Survey Division Rizal Street, Barangay Sagpon Legazpi City	Isabelita Climaco	(052) 480 98 25
Region VI - Iloilo	DENR Forestry Building Barangay Parola, Fort San Pedro Iloilo City	Dorothy Salvador	0919 887 38 62
Region VII - Cebu	Room 301, Osmeña Building II Osmeña Boulevard, Cebu City	Melchor Togonon	(032) 505 99 45 0932 641 85 92
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	Annette Flores	0935 860 94 39
Region IX - Zamboanga del Sur	President Corazon C. Aquino Regional Government Center Barangay Balintawak Pagadian City	Josefina Valdez	0907 277 74 22
Region X - Misamis Oriental	DENR Building Barangay Macabalan Cagayan de Oro City	Jennifer Bagamaspad	0919 266 89 62 0926 414 89 76
Region XI - Davao del Sur	DENR Compound, Kilometer 7 Lanang, Davao City	Eduardo Deocampo	0915 612 77 70
Region XII - South Cotabato	DENR- Land Evaluation Party Aurora Street, Koronadal City	Jenyluz Bautista	0908 545 93 67 0998 984 09 21
CARAGA, Region XIII Agusan del Norte	DENR Regional Office Land Management Building Barangay Ambago Butuan City	Rodeo Bonjoc	(085) 342 61 24 (085) 341 32 50

\*Temporarily closed

\*\*For temporary closure





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