

Republic of the Philippines Department of Environment and Natural Resources Visayas Avenue, Diliman, 1100 Quezon City Tel. Nos. (632) 8929-6626 to 29; (632) 8929-6633; to 35 Email: web@denr.gov.ph Website: www.denr.gov.ph

JUL 21 2021

DENR SPECIAL ORDER NO. 2021 – <u>388</u>

SUBJECT : AUTHORIZING THE CONDUCT OF WORKSHOP ON THE INTEGRATION AND STANDARDIZATION OF GEOSPATIAL DATASETS FOR THE FORESTRY SECTOR ON JULY 27, 2021 VIA ZOOM MEETING PLATFORM

In the interest of the service and to strengthen the Department's initiatives in the effective protection, development and conservation of the country's remaining forest resources, forestlands, and watersheds, the conduct of the Workshop on the Integration and Standardization of Geospatial Dataset for Forestry Sector to be held on July 27, 2021, via Zoom Meeting Platform, is hereby authorized.

The following officials and personnel from the Field Offices are authorized to attend and participate:

NCR

Albina L. Pineda	Chief, Planning Management Division
Aida E. Esguerra	Chief, Conservation and Development Division
Orly T. Cariazo	Chief, Enforcement Division
Lina L. Mirandilla	Chief, Surveys and Mapping Division
Alvin Joseph G. Constantino	Chief, Licenses, Patents and Deeds Division
Jonathan Lambiquit	Regional GIS Technical Staff

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Rosita Y. Apilis	Chief, Planning Management Division
Julius K. Cawilan	Chief, Conservation and Development Division
Atty. Charine Hanako Abalos	Chief, Enforcement Division
Benjamin A. Ventura	Chief, Surveys and Mapping Division
Maria. Rowena Caccam	Chief, Licenses, Patents and Deeds Division
Cirilo Gali	Regional GIS Technical Staff

Chief, Planning Management Division

Chief, Surveys and Mapping Division

Chief, Enforcement Division

Regional GIS Technical Staff

Chief, Conservation and Development Division

Chief, Licenses, Patents and Deeds Division

Region I

Engr. Cezar Manuel A. Cabansag Ms. Barbara M. Pernia Atty. Arlyn Katherine C. Buduhan Engr. Narciso Aragon Engr. Noriel Nisperos Edwin M. Dilim

Region II

Pamela E. De AsisChief, Planning Management DivisionFor. Enrique Q. PasionChief, Conservation and Development DivisionFor. Joel S. DaquioagChief, Enforcement DivisionEngr. Zelda A. VasquezChief, Surveys and Mapping Division

Let's Go Green!

Engr. Eliseo D. Mabasa Arnold A. Batung

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Region III

Judelyn C. Francisco Minerva J. Martinez Atty. Armando Preclaro Engr. Juan P. Fernandez, Jr. Ricky J. Hernandez Emmanuel Penson

CALABARZON

For. Mailene M. Gecolea-Laviña For. Ramil J. Gutierrez For. Oliver B. Viado Engr. Edgar S. Barraca Engr. Olivia G. Bejo Marvin Anghad

MIMAROPA

Marilyn R. Limpiada Consuelo M. Matundan Lino M. Dimapilis Roman G. Legaspi Cesar P. Odi O'soniel Moises Tuddao

Region V

Ma. Anna P. Eleazar Marlene M. Francia Armando A. Omolida Josie A. Columna Ferdinand L. Baltazar Rene M. Manzanades

Region VI

Edna B. Locsin Danilo L. Lorilla June Melissa C. Garol Meliton B. Solas Elizur G. Militar Efren B. Villanueva

Region VII

Dr. Eddie E. Llamedo For. Lutherian T. Hernando For. Jimmy A. Panebio Engr. Emiliano S. Hormachuelos For. Ma. Clea A. Arceño Chief, Licenses, Patents and Deeds Division Regional GIS Technical Staff

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Chief, Planning Management Division Chief, Conservation and Development Division Chief, Enforcement Division Chief, Surveys and Mapping Division Chief, Licenses, Patents and Deeds Division Dionde C. Clarin

Region VIII

Maria Teresa N. Patindol Marissa N. Solite Allen S. Cebuano Ramon S. Unay Valire Jess D. Abar Dennis Lumagbas

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Region IX

Dante A. Rojas Neneth T. Ordoño Cidur S. Julsadjiri Ramon E. Azcarraga Arlene E. Gabayno Cyrus B. Bayaw

Region X

Mabel Gemma Abad Ravanera Lida Sibug Bagonoc Sarah Parroco Chacon Isidro Joseph Jabla Dario Palma Barbarona Redilyn Flores

Region XI

Luningning M. Dalayon Myrna Erlinda D. Arbiol Raul M. Tambilawan Engr. Isidro P. Guarra Catherine E. Orellan John Wyn C. Maruhom

Region XII

Vicente Y. Curtiz Ali M. Hadjinasser, Ph.D. Dirie P. Macabaning Francisco C. Mancera Emily B. Ampatuan Gabriel M. Baute

CARAGA

Antonieta A. Jurado Nilda G. Ebron Modesto U. Lagumbay Jr. Juliet B. Ilogon Mila M. Garcia Remar Baliscas Regional GIS Technical Staff

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The Forest Management Bureau (FMB) shall facilitate the conduct of this activity and serve as the Secretariat. All expenses to be incurred in the conduct of the said workshop shall be charged against respective office funds, subject to the usual accounting and auditing rules and regulations. A report shall be submitted to the undersigned within the fifteen (15) days after the conduct of the said activity.

The FMB Director is authorized to reschedule the activity in case of conflict with other DENR activities.

This Order shall take effect on the date specified herein.

ATTY. EXAMPLESTO D. ADOBO, JR., CESO I Undersecretary for Legal, Administration, Human Resources, and Legislative Affairs



WORKSHOP ON THE INTEGRATION AND STANDARDIZATION OF GEOSPATIAL DATASETS FOR THE FORESTRY SECTOR

Rationale

In 2012, the Forest Management Bureau (FMB) adopted the use of modern technologies such as Geographic Information System (GIS) and Remote Sensing in its policies and guidelines to effectively protect, develop, and conserve the country's remaining forest resources, forestlands, and watersheds.

Geographic Information System (GIS) refers to the framework for gathering, managing, and analyzing spatial data to generate information, visualize patterns which can be used as a powerful tool for better planning and decision making. Modern mapping technologies provide cost-efficient spatial analysis of forest resources, with enhanced levels of accuracy and timeliness. Remote Sensing, on the other hand, is the science of the acquisition of information about an object or phenomenon from a distance. It is the process of detecting and monitoring the physical characteristics of an area by measuring its reflected and emitted radiation typically from aircraft or satellites.

Since then, the Bureau has provided technical guidance to the field offices on the standardization of forestry spatial datasets in the mapping and monitoring of forestry sector programs and projects such as the Enhanced National Greening Program (ENGP) and issuance of tenurial instruments. However, the application of GIS in the forestry sector has yet to reach its full potential in addressing challenges during planning and program implementation. Despite all the advantages of GIS in forest management, it is still being limited by the issues on data availability and quality particularly on data collection and analysis.

Hence, it is necessary to conduct the integration and standardization of geospatial datasets for the Forestry Sector. This is designed to maximize the application of GIS in the forestry sector by transforming selected compliance and monitoring reports into spatial datasets such as but not limited to forest inventory, potential investment areas, location of Wood Processing Plants (WPP), tree replacement areas, construction of Small Water Impounding Structure (SWIS), Lawin patrol data, location of log apprehension, and forest fire incidence.

This may be done through spatial modelling and can be applied as a tool in holistic forestry planning, decision making, and allocation of forest resources. The integration of these spatial datasets can be further analysed to address policy gaps/issues, specifically on the following:

- 1. Recording and mapping identified tree replacement areas, existing urban green spaces, inventory of structures within forestlands, mining activities, among others;
- 2. Improvement in the spatial analysis of forestry-related reports and data in terms of timber volume harvested from tree cutting permits, management plans, and assessment of potential hazards such as forest fire incidences and forest-related diseases; and
- 3. Keep track of mined-out areas as well as the status of the- progressive rehabilitation efforts, CSRs and replacement plantings of mining and energy projects.

Objective

This workshop aims to recommend guidelines to address the above-mentioned policy gaps/issues. It also aims to capture, design, manage and analyze forestry-related reports and accomplishments to be used in the development of a Forestry Geospatial Information System in support of the DENR One Control Map. Further, these spatial datasets will be integrated for the generation of thematic maps for holistic planning.

Schedule of Activities

The workshop will be held virtually, following the safety and health protocols issued by the Inter-Agency Task Force for COVID-19. The tentative schedule of the activities are as follows:

TENTATIVE DATE	ACTIVITY	EXPECTED OUTPUTS
June 16, 2021 (Wed)	First Phase: Workshop with FMB Executive Committee on the Proposed Forestry Geospatial Datasets	Initial list of proposed forestry geospatial datasets
July 27, 2021 (Tues)	Second Phase: Consultation Workshop with DENR Field Offices on the Proposed Forestry Geospatial Datasets Workshop	Integrated list of forestry geospatial datasets and thematic maps
August 2021	Presentation of the results of the workshop to the FMB Director	Draft Technical Bulletin on forestry geospatial datasets

Participants

The workshop shall consist of two phases of consultation on the standardization and adoption of forestry geospatial dataset standards. Participants for the said activities are the following:

First Phase:

FMB Director FMB EXECOM FPSS Staff (2) KISS Staff (2) FES Staff (1) All FGDIS Staff

Second Phase

Forest Management Bureau

- Chief, FPPKMD
- Chief, FPPKMD-FGDIS
- OIC, RFRS-FRCD
- Representative/s per Technical Division
- All FGDIS Staff

DENR Field Offices

- Chief, Planning and Management Division -
- Representative, Conservation and Development Division
- -Representative, Enforcement Division
- Representative, Surveys and Mapping Division -
- Representative, License, Patents, and Deeds Division -
- Representative, Regional GIS technical staff -

Budgetary Requirements

Food, communication allowances, and other related expenses to be incurred in the conduct of said workshop shall be charged against FMB Funds, subject to the usual accounting and auditing rules and regulations.

TIME	ACTIVITY	RESPONSIBLE PERSON
8:00 - 9:00	Opening Remarks	For. Marcial C. Amaro, Jr., CESO III Assistant Secretary for Policy, Planning, and Foreign Assisted and Special Projects, and FMB Director, in concurrent capacity
	Direction Setting and Workshop Overview	For. Larlyn Faith C. Aggabao <i>Chief, FPPKMD – FGDIS</i>
9:00 - 11:00	Presentation of Proposed Forestry Geospatial Datasets and Thematic Maps	FGDIS
11:00 - 12:00	Open Forum	
12:00 - 1:00	LUNCH BREAK	
1:00 - 3:00	Continuation: Open Forum	
3:00 - 3:40	Summary of Agreements	FGDIS
3:40 - 3:50	Way Forward	For. Isabelita V. Austria <i>Chief, FPPKMD</i>
3:50 - 4:00	Closing Remarks	For. Edna D. Nuestro OIC, Assistant Director

Tentative Program (July 27, 2021)