JAN 2019

BASELINE STUDY

Policies, Plans, and Projects on **Disaster Risk Reducation** Climate Change Adaption, and Environment Management and Restoration.





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Annex: Matrix of DRR-CCA-EMR Policies and Plans of the



Since 2011, Partners for Resilience (PfR), an alliance of Netherland based humanitarian, development, climate and environmental civil society organizations (CARE Nederlands, Cordaid, the Netherlands Red Cross, the Red Cross Red Crescent Climate Centre, and Wetlands International) together with their partner organizations in the country has been promoting the application of Integrated Risk Management (IRM) to strengthen

and protect livelihoods of vulnerable communities.

The PfR 2016-2020 aims to strengthen the capacity for Integrated Risk Management dialogue, to embark on distinct trajectories within the three domains (policy, practice and investment) to ensure that the needs of vulnerable people are incorporated in policies, investments and practice. It will focus on Integrated Risk Management dialogue towards local, national and regional stakeholders to institutionalize the Integrated Risk Management (IRM) concept that consider DRR, CCA and EMR in a wide range of institutions.

Under Trajectory 2, "Local government units and multi-stakeholder alliances and platforms mainstream IRM in inclusive planning guidelines, local development plans and landscape-wide, multi-stakeholder alliance plans" PRC will pilot test IRM in conflict affected area in Surigao del Norte. The implementation of IRM in conflict-affected area will also complement another project supported by NLRC in Surigao del Norte, the Youth in Conflict project. Under this trajectory:

• IRM mainstreamed by local government units in local development plans • Communities, community-based organizations, people's organizations and barangay local government units have adequate capacities to practice IRM in conflict areas; and • Communities, community-based organizations and people's organizations have

adequate capacities to engage in dialogue and participate in local development planning processes

For Trajectory 4, "Increase access of target LGUs and CSOs to different funding opportunities that support IRM initiatives", PRC will build the capacity of identified LGUs to allow them to access funding from different streams such as Peoples Survival Fund (PSF) and other funding sources.

This paper seeks to collate information on the policy environment of the Province of Surigao del Norte and selected government units thereof. In general, this study seeks to establish the baseline information of DRR-CCA-EMR policies, plans and projects in the province of Surigao del Norte and

five of its local government units namely Surigao City, Municipalities of Alegria, Bacuag, Gigaguit and Malimono. The information provided in this paper is intended to assist the PRC-PfR Project Team in mapping out the next courses of action of the Project towards the fulfillment of trajectory 2 and 4 of PfR 2016-2020, by examining the policy gaps and opportunities for advocacy/dialogue.

Methodology

Figure 2 illustrates the implementation framework of the baseline study. The study was divided into three main activities: Primary data collection, Policy inventory and gap analysis, and Policy advocacy session and planning. 0> Boseline Results Policies

Policy riventory

Policy Gep Analysis

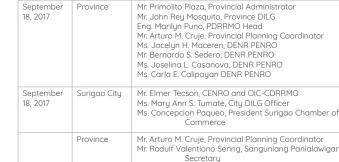
Data Collection

Primary Data Collection

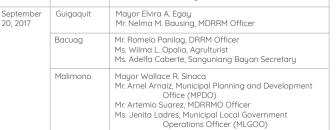
The Surigao del Norte Red Cross Chapter and its relationship with the local government units played a major role in the successful conduct of the interviews and data gathering for this study. The communication letters for the Local Chief Executives were signed by the Chapter Administrator. Despite the short preparation and the unexpected government declaration of national work suspension in government offices on September 21, the data gathering was able to cover most of the target interviews.



Below is the accomplished itinerary of the data gathering and interviews: Officers Interviewed Area



Date



Follow up interviews with the municipalities of Bacuag and Alegria, were also made possible through the PRC staff as well as sending letters to Regional Offices to collect additional data and references of which, were not given feedback.

Mayor Rene Esma Mr. Ian Jun Gesta, MLGOO Mr. Edipolo Mosquito, MPDO

Alegria

On January 8, 2018, the results were presented to the representatives of the province and municipalities for validation. Surigao City and Alegria were able to submit further data on January 28, 2018.

Surigao City: Leonardo Go - CDRRMO Staff, Engr. Elmer Tecson - OIC, CDRRMO Malimono: Engr. Artemio Suarez - MDRRMO, Nemelyn Bodino - Administrative Rizaldy Esma - Municipal Administrator, Engr. Roco Moca - MDRRMO Ariel Efren - MDRRMO Staff Alegria: Ma, Maraarita Liauido - MPDC, Enar, Panfilo Ochavez - MDRRMC Bacuaa: David Weuda - MDRRMO Staff, Nelma Bausing - MDRRMC Gigaquit: Province: Peter Guira - PDRRMO Staff



Inventory of Compliance to Standards

he information collected were catalogued and ynthesized according to the standards set out in ational laws on DRR-CCA-EMR. A matrix was leveloped summarizing the policy standards and presenting each municipality's compliance to each of the

Mainstreaming of DRR-CCA-EMR to Local Plans

he integration of national mechanisms into loca governments is necessary to ensure development of adaptive and resilient communities. In this light, it is important to understand how a local government unit addresses DRR, CCA and EMR and this can be measured from the extent of mainstreaming of DRR-CCA-EMR in local development planning ocal development planning.

here are at least four scenarios for DRR-CCA-EMR ntegration in local development planning. The ideal scenario is where DRR-CCA-EMR policies intersects with local development planning, meaning local policy makers has adequately considered DRR-CCA-EMR. Scenario 2 (Figure 1) suggests that DRR-CCA-EM R policy are integrated nainstreamed DRR S2 CCA-EMR Policy levelopment Policy Scenarios S3 S4 and 4 would show that DRR and CCA-EMR Development are separately Policy considered in development planning.

Overview of Relevant IRM Philippine Laws: LGU Focus

It is of public knowledge that the Philippines is a port for natural processes of mother nature and serves as a hotbed of disasters, wherein natural hazards inflict loss of lives and costly damage to property. The country is visited by an average of twenty typhoons a year. The 2017 Global Climate Risk Index has actually placed the Philippines as fifth among more than 190 countries Philippines as fifth among more than 190 coun rround the world that have suffered the most extr past 20 years.

> Table 1: The Long-Term Climate Risk Index (CRI) (annual averages)

Country CRI Score Death Toll Deaths per 100,000 in million unit GDP events (tot 1996-2015) 1996-2015 Honduras 11.33 301.90 4.36 568.04 2.100 Myanmar 14.17 7145.85 14.71 1 300.74 0.737 Haiti 18.17 253.25 2.71 221.92 1.486

The law directs various government agencies to:

National Disaster Risk Reduction and Manageme

thematic areas of DRRM.

and functions.

Plan. It enables the LGU to assume a leading role in al

According to section 11 of the RA 10121, the existing

Provincial, City, and Municipal Disaster Coordinatir

City, and Municipal Disaster Risk Reduction and

Management Councils. It further provides its members

DRRM, the following standards are provided under the

Reduction and Management Council

Reduction and Management Office

a. Mandatory Office

operations and warning

Civil Defence/Disaster Risk

Management Experience

3. Allocation of LDRRM Fund

a. Members

1. Organized and functional Local Disaster Risk

b. Four CSO Representatives; One

c. Quarterly meetings or as necessary

Private Sector Representative

2. Establishment of Local Disaster Ris

b. Headed by a LDRRM Officer

with 3 staff: administration and

c. Qualification of LDRRM Officer:

Planning, Local Risk Map, Multi-

a. (At least) 5% allocation from

- Quick Response Fund; 70%

4. Local Disaster Risk Reduction Management

b. Integrated in Comprehensive

5. Capacity Building and Public Awareness

a. DRRM Operations Centre

a. Orientation/training on DRRM

Development Plan and Comprehensive

Disaster Preparedness

a. Annual Budget

b. Public Awareness

Land Use Plan

6. Emergency Response

Programs

10174)

Hazard Early Warning System

training; research and planning; and

d. Risk Assessment and Contingency

Internal Revenue Allotment (IRA): 30%

Councils shall henceforth be known as the Provinc

agement approach that is holisti omprehensive, integrated, and proactive in ssening <u>the socioeconomic and</u> vironmental impacts of disasters includin climate change and promote the involvem and participation of all sectors and stakeholders concerned, at all levels, especi the local community. (RA 10121, Sec. 2d Councils and Offices are created, from national down to the local government units (LGU), to operationalize the various responsibilities of the government, this devolution serves as a mechanism to implement the

Acronyms & Abbreviations

CCA

ELA

LGC

Annual Investment Plan Climate Change Adaptation Comprehensive Development Plan CDP CENRO City Environment and Natural Resources Officer CSO Civil Society Organization DILG Department of the Interior and Local Government DRRMO Disaster Risk Reduction and Management Office(r) EMR HLURB - NMR Regulatory Board - Northern Mindanao Region Local Climate Change Action Plan LCCAP LDIP LDPFP LDRRMC Local Disaster Risk Reduction and Management Council Local Disaster Risk Reduction Local Government Code LSWMB Local Solid Waste Management Board MDFO Municipal DRRMO MDRRMO MLGOO Municipal Local Governmer Operations Officer MPDO NDRRMP National Disaster Risk NEDA National Economic Development PAGASA Philippine Atmospheric Geophysica PDPFP Provincial Development and Physical Framework Plan PENRO Provincial Environment and Natural Resources Officer PHIVOLCS Philippine Institute of Volcanology Peoples Survival Fund SWM

Climate Change Act (Republic Act 9729) and People's Survival Fund (PSF, Republic Act

management policy.

PRC

PSF

c. Climate Change Adaptation programs ana projects

Baseline Study Report Table 1. Matrix of LGUs Compliance to Standards

Notable calamities that hit the province include typhoon, flash floods in Mainit, Surigao Province, Del Carmen; no. San Francisco and Sison' severe

• Resolution No. 122, s.2016 – Adopting all contingency plans, protocols and policies of the

Norte Environment Code 2006

This report is based on standards found in principal laws relevant to DRR, CCA and EMR as discussed in the preceding section to identify the required baseline information complied to and observed by the selected LGUs (see Table 1). Note that the report looks into LGU policies and plans that shows documentary compliance to national standards. It does not assess the actual implementation of these policies and plans which can be done by a more extensive study.

In processing all the documents and information gathered during the interview and collection of data, a matrix of standards, consolidating the information on policies, plans, programs and projects was developed. It provides a quick glance of all the information supporting the existence of DRR, CCA and EMR policies, plans and projects.

As an initial observation all the selected LGUs covered in this report had essentially applied most of the standards of the law, in terms of the existence of the local policy instruments, however the implementation of which is another subject for study not covered in this report.

The CDP, the CLUP and the Local Development and Physical Framework Plan (LDPFP), if available, are implemented through the Local Development Investment Plan (LDIP), Annual Investment Plan (AIP) and the Executive-Legislative Agenda (ELA), and other thematic plans such as the Local Poverty Reduction Action Plan (LPRAT), Disaster Risk Reduction and Management Plan (DRRMP), Gender and Development Plan.

The Provincial Development and Physical Framework Plan (PDPFP) is formulated at the provincial level and merges the traditionally separate provincial physical framework plan and provincial development plan to address the gap between spatial and sectoral factors and between medium and long-term concerns. It contains the long-term vision of the province, and identifies development goals, strategies, objectives/targets and corresponding PPAs which serve as primary inputs to provincial investment programming and subsequent budgeting and plan implementation.

The Province of Surigao Del Norte

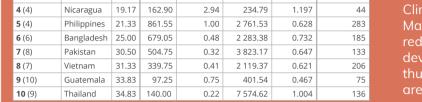
There are compelling and urgent reasons why the is susceptible to flooding, rain-induced landslides, storm Province of Surigao Del Norte should adopt disaster risk surges and big waves which are also brought about by reduction and management (DRRM) and climate change climate change impacts. As such, the province has been adaptation (CCA). The geographic location of the incurring significant economic and environmental province near the Philippine Deep, traversed by faults damages from natural and man-made disasters and along the ring of fire as well as its climatic condition estimated at an average annual direct damage at P24.4 with no pronounced dry season exposed some areas in million reaching a total damage of almost P 48.83 million the province to meteorological and volcanic different from 2012-2016. hazards, that is why, Surigao Del Norte

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	Change Action Plan or Integrated in	Yes			Yes	Yes	Yes
	LCCAP Fund/PS	F No	No	No	No	No	No

"Pablo", "Yolanda", "Agaton", "Basyang", "Quinnie", and "Ruby" that left significant damage to Surigao Del Norte's infrastructure and agricultural assets. Manmade calamities were also recorded during the period ranging from fire incidents, diarrhea and dengue outbreaks.	 Executive Order No. 16-043 Institutionalizing Mandatory Basic Training Program on Disaster in All Barangays and Formulate Contingency Plans for Each Hazard (Landslide, Tsunami, Storm Surge and Man-Made Calamities Executive Order No. 16-046 An Order
Flooding in the province occurs during the months of December, January and February. The municipality of Mainit experiences sheet flooding almost every year affecting its biggest barangays; Matin-ao, Quezon, San Francisco and TaKapitolyon. In some cases, the inundation would last for about a month causing evacuation of residents, mostly, from Sitio Bliss (about 120 families). Surigao Province's sub-urban barangays are prone to landslides with return period of 3 years.	Creating the Pre-Disaster Risk Assessment (PDRA) and the Rapid Damage Assessment and Needs Analysis Teams of the Province of Surigao del Norte • Resolution No. 17-2016 Resolution Authorizing the Provincial Governor to Utilize the 2015 Provincial Disaster Risk Reduction and Management Funds for Procurement of Tactical Radio Mass Communication, Barangay Disaster Data Profiling and Operationalization of DRRM
Given the risk and hazard profile of the province, it has early on responded to the effects of climate change and disasters being one of the pioneering LGUs that was able to mainstream DRR and CCA in their Provincial Development and Physical Framework Plan (PDPF) 2008-2017, even prior to the enactment of Climate Change Act and DRRM Law. However, much has changed, and development as to DRR management and Climate Change adaptation needs to be considered in	 Office amounting to three million eight hundred seventy five thousand four hundred sixty pesos & 77/100 Executive Order No. 16-044 - Requiring LGUs to Identify Private/Public Buildings Including Residences, as Evacuation Centers and Providing Trainings and Government Support in Times of Calamities.
updating the LGU's development plans. As to institutional governance on DRR and CCA, the province has recently re-organized its DRRM council through an Executive Order (EO) to facilitate and speed up PDRRM programs and activities. The council meets every quarter however during the time of the interview, the third quarter meeting did not push through due to busy and	Although there is an EO requiring LGUs to identify buildings for Evacuation Centers, the province has yet to issue a policy on pre-emptive evacuation in times of Disaster according to the DRRM officer. The latter further added that they have initiated the crafting of a DRRM code which would include insurance for the DRR staff and operational concerns.
conflicting schedules among the department heads, according to the PDRRM Officer.	As for plans, aside from the DRR-CCA enhanced PDPF 2008-2017, the province also has a Comprehensive Road Network Development Plan 2017-2022 that mainstreams
The mandatory DRRM Office was created in 2015 through an ordinance, with a sub-office in Siargao. The DRRMO is currently headed by Engineer Marilyn Pono who is also the focal person for CCA, however only under a holding capacity as officer-in-charge. The ordinance created positions, as required by law with an additional assistant DRRM officer. Under the same ordinance each division are given five (5) staff. However, there is no information if all job items have been filled up.	both DRR and CCA; a five year LDRRM Plan 2016-2020 and an LCCA Plan both anchored in the National DRRM and CCA Plans, respectively. In implementing these plans the Province has approved its budget under its Annual Investment Plan for 2018 with the CCA and DRR prioritized programs and activities lined up. Funding for programs and projects differs for DRR, CCA and EMR. DRR programs and projects are funded through the LDRRM fund which is 5% of the internal revenue of the LGU. CCA and EMR prove to be harder to source funding by LGUs, since the CCA law
As a functioning office, several policies were issued to support the operations of the office such as:	does not specify the amount to be appropriated and sourced. Thus, the practice is to tag programs and projects with CCA or mitigation component which can be drawn
 Executive Order No. 16-016 - Creation of the Provincial Evaluation Team for the Seal of Disaster Preparedness fore Barangays 2016. Resolution No. 069, s.2016 – Authorizing the 	from the DRRM fund or vice versa. Based on the submitted Annual Investment Plan for 2018, their DRRM fund totals to PhP 158,460,000.00.
Provincial Governor to utilize portion of 2015 Trust fund to procure emergency GSM equipment and systems for disaster response	There are also existing policies supporting Environment Management and Restoration as submitted by the province:
	COMMUNITII CODO



• IRM programming using available budget for DRRM • Environment & DRR priorities in the ELA (2016 to 19); and • Passage of pre-emptive evacuation ordinance



ource: Kreft, S. and Eckstein, D.: Global Climate Risk The Climate Change Act, which was enacted a year Index 2017. The Philippine Institute of Volcanology and ahead of the PDRRM Act aims to mainstream climate Seismology (PHIVOLCS) is also monitoring 23 active change adaptation into government policy formulations olcanoes out of 200. Volcanic eruptions can cause a lis if incidental hazards such as earthquake, mud slide and fire which translates to catastrophic immediate and establishes the framework strategy and program on climate change adaptation and created the Climate Change Commission llong the pacific ring of fire experiences an average of 0 earthquakes a day and the province of Surigao de lorte is no stranger to strong earthquakes having ecently been struck with a 6.7 magnitude last February that: 2017, recording damages to lives and property.

Administration (PAGASA)

While there are varied trends in the magnitude and direction of rainfall changes, both in 2020 and 2050, what the projections clearly indicate are the ikely increase in the performance of the southwest and the northeast monsoons in the provinces exposed to these climate controls when they prevail over the country. Moreover, the usually wet easons become wetter with the usually dry to more occurrences of floods and dry pells/droughts, respectively. (PAGASA, 2011, p.26

In addressing these issues, the national government has been very responsive in terms of updating and developing policies. In fact, this has been recognized by the United Nations (UN) commending the country for having the best policies in the world on climate change adaptation (CCA) and disaster risk reduction (DRR).

Philippine Disaster Risk Reduction and Management Act (RA 10121)

Under RA 10121 or the Philippine Disaster Risk Reduction and Management Act (PDDRM) of 2010, it shall be the policy of the state to uphold the people's titutional rights to life and property by add root causes of vulnerabilities to d the root causes of vulnerabilities to disasters, strengthening the country's institutional capacity for disaster risk reduction and management and building the resilience of local communities to disasters including climate change impacts. It aims to:

adopt a disaster risk reduction and management approach that is holistic, comprehensive, integrated, and proactive in lessening the disasters including climate change and promote the involvement and participation of all sectors and all stakeholders concerned, at all levels, especially the local community. (RA 10121, Sec. 2d)

2. LCCAP FL Climate Change Adaptation and Disaster Risk Management share a common focus, and that is to reduce vulnerability and contribute towards sustainable development. The Philippines recognizes this concept,

a. Authorized use of Internal Revenue Allotment b. Access to PSF It should be noted however that LCCAP is not necessaril

a stand-alone action plan, the concept of mainstreaming as defined under RA 9729 refers to the integration of policies and measures that address climate change into development planning and sectoral decision-making. Thus, if action plans, such as CLUP and CDP, are climate sensitive LCCAP as a stand-alone plan is not required.

Environment Management and Restoration

water, land use management, natural resources and waste management. To respond and adapt to the need of

the changing times several succeeding policy measures

were enacted, some of which specifically addresses the

focus on the existing LGUs policy, plans and projects or waste management, reforestation and coasta

Under the Local Government Code of 1991(Republic Ac

7160), "local government units shall share with nationo

overnment the responsibility in the management and

aintenance of ecological balance within their territoric

It likewise recognizes the indispensable part of LGUs in The Philippines has diverse laws that seeks to address a responding to climate change. Specifically, it provides angles of managing and protecting the environment. The Philippine Environment Code (PD 1152), a four-decade

The LGUs shall be the frontline agencies in the formulation, planning and implementation of climate change action plans in their respective overnment Code, the Framework, ar Government Code, the Framework, and the National Climate Change Action Plan. Barangays shall be directly involved with municipal and city governments in prioritizing climate change issues and in identifying and implementing best practices and other solutions. Municipal and City governments shall consider climate change adaptation, as one of their regular functions. Provincial governments shall provide technical assistance, enforcement and information management in support of municipal and city climate change action plans. Inter-local government unit collaboration shall be maximized in the conduct of climate change adaptation-related activities. (RA 9729, Sec. 18)

prest and waste management functions to LGUs: such a enforcement of forestry laws in community based forestry communal forests, subject to supervision, control and review of DENR; and Solid waste disposal system or To reinforce the policy of the state under the RA 9729, to

change-related disasters as it recognized the vulnerability of the Philippines and its local communities to its dangers, the People's Survival Fund was enacted amending RA 9729. The People's Survival Fund (PSF) was created pursuant to Section 18 of Republic Act No. 9729 (Climate Change Act of 2009), as amended by Republic Act No. 10174. It is a special Fund in the facilities related to general hygiene and sanitation. 1. Approved Solid Waste Management Plan by the National Solid Waste Managemer SWMP, Rule 7, sec 3 IRR RA 9003)

National Treasury for the financing of adaptation programs and projects based on the National Strategic Framework. 2. Local Solid Waste Management Board The law provides the following standards for LGU

2. Local Climate C. Integrated in other Plans a. Appointment of Focal person to formulate and implement 1. Local Climate Change Action Plan (LCCAP) or b. Regular updating

(Implementing Rules and Regulations o Republic Act 9003, DENR Administrative Order No. 2001-34) 3. Appointment or designation of ENRO office (Sec. 7.2 Joint Memorandum Circular No. 98-01 Manual of Procedures for DENR-DILG-LGU Partnership on Devolved and Other Forest

Management Functions) 4. Reforestation and coastal management



The City of Surigao

Visayas. The City has been competitive (measured by Economic Dynamism, Government Efficiency and Infrastructure indicators) as indicated by its 2016 competitiveness index of 36.73, higher than that of Butuan City. It has shown continuous expansion of business and industries since 2014 as indicated by an increasing economic dynamism score. Government efficiency and infrastructure development are also at its highest for Surigao City in 2016, comparable with Butuan's. According to the 2015 Census Surigao del Norte is the fastest growing province in the Caraga, with Surigao City having the second largest population size of 154,137. The expected increase in demand brought about by a growing population is expected to have a positive effect in economic and infrastructure development in the city.

Surigao City, the capital of Surigao del Norte province, magnitude earthquake affecting all 54 barangays. Surigao assumes the roles of commercial trading center in the City was placed under State of Calamity due to the extent northeastern seaboard and major processing center for and gravity of damages. There were eight casualties and minerals and fishery in Caraga because of its location 168 injured during the earthquake and an estimated cost of that serves as point of entry and exit to Luzon and 213 million pesos damages to infrastructures. Fortunately, there was an overwhelming response from other government entities, private sector and non-profit organizations through relief goods, cash donations and volunteering. Initial actions taken by the LGU were to distribute relief goods, repair of equipment, and water rationing. Rehabilitation was still on-going during the time of field visit in September. The City's response to these disaster situations is a result of their commitment to becoming more prepared and resilient which is evidenced by the numerous recognitions they have received. Their DRRM Council was awarded Best City of rescue equipment, conduct of CBMS for geo-tagging, Disaster Risk Reduction and Management Council in Caraga Region for four consecutive years (2007-2010) They also won the Gawad Kalasag award as CARAGA Regional Winner in 2014 and was a second placer in 2015. During these years, Surigao City's DRRMO, created in 2011 through City Ordinance No. 318 was headed by City Administrator Atty. Manuel G. Coro from 2013 to 2016 as DRRM Officer. He was replaced by Engr. Elmer Tecson, the City Environment Officer in January 2017. Construction of the office for the CDRRMO is still on-going but it already employs a handful of personnel, two are occupying concurrent positions and two are contractual. There are at least two available permanent positions under the CDRRMO but they are having a difficult time finding people etc. that are charged under the LGU general fund fit for the job. In the 2017 AIP, total DRRM budget reached P75,814,288.00 to fund projects related to procurement of ERS equipment; upgrading/ rehabilitation of evacuation centers, government buildings, irrigations systems, sanitary landfills, etc; advocacy and capacity building activities on DRRM-related issues. The CDRRMO has been conducting preparedness and mitigation trainings in all 54 barangays of the city to arm communities with knowledge in keeping safe and secure during disaster situations and establish mitigation practices in their homes. Currently, all barangays have established a DRRM committee, but they lack the household profiles per Purok as part of the city's vulnerability assessment. The CDRRMO also facilitates implementation of fire drills and earthquake drills in schools, malls, and hospitals. Engr. Tecson hopes to complete DRRM training and conduct vulnerability assessment on all barangays by 2018. They have yet to pass an ordinance on pre-emptive evacuation, but Engr. Tecson aims to start with increasing awareness on preemptive evacuation to engage all stakeholders in evacuating residents and not just rely on government facilities. Civil Society Organizations also conduct trainings and activities on DRR like trainings on rescue diving, training of responders, among others. The Surigao Chamber of Commerce, a member of the CDRRM Council, together with the LGU conducts seminars on preparedness specific to the concerns of an entrepreneur, e.g. access to insurance, business continuity, etc. The plans for DRRM projects and activities have yet to be

laid out in the City's DRRM Plan which was last updated in management, e.g. solid waste management, forest land 2015. Nonetheless, the Executive Legislative Agenda for use, coastal management among others. 2016-2019 integrates DRRM and CCA in its framework.

Consequently, the 2016 Surigao City Zoning Ordinance and Plan with an overall goal of minimizing solid waste and CLUP for 2011-2020 aim to support the City's vision for maintaining a clean and safe environment to residents. The sustainable development by integrating DRR mechanisms City has also been managing its own "Sanitary Landfill", a on prevention, mitigation and response to policies and project in 2000 that was supported by the Government of strategies. The CLUP identified general rules in land use that Sweden. The CENRO is also implementing a simplified promote DRMM e.g. discouraged any disruption of flood waste segregation scheme that segregates clean paper and plastic from other garbage, which will be collected by the prone areas and cleared out settlements along river banks and coastal areas. The AIP for 2017 has also incorporated LGU. They also conduct orientations that aim to promote CDRRM funding for projects and activities related to DRRM self-discipline in garbage disposal. They have started which are mostly infrastructure projects like construction of campaigning in schools, with the belief that proper garbage drainage canal, rehabilitation of waterways or gutters, disposal should be taught in schools starting with children. repair or construction of evacuation centers. There are also They also enjoined jeepney drivers, as custodians of their funding for Emergency Response Services (ERS), purchase own vehicles, to encourage passengers not to throw

Municipality of Alegria

illegal activities.

casualties.

Alegria is a fifth-class municipality of more than 16,000 residents, with its LGU relying mostly on budget from the national government through the Internal Revenue serve as inputs for the updated DRRM plan. The recently Allotment. The rest of LGU's income come from businesses lapsed DRRM and CCA plan was already under review for (sari-sari stores, rice mills, and internet shops) and agricultural production (rice, coconuts, and bananas) and fishing. The businesses are slowly growing although in small increments so there is still reason to keep developing the agriculture and marine industry. The LGU is also developing a handful of nature attractions in Alegria into tourist-ready destinations. Nature attractions in Alegria are no surprise as it is situated in a rolling terrain surrounded by forestlands and bodies of water including Lake Mainit, eight river channels, and numerous creeks and springs traversing the landscape. Some households also depend on income from small scale mining with some classified as

capability assessment on preparation, prevention/mitigation and response to disasters, which will updating during time of data gathering.

fishing practices as well as malpractice forest resource management such as illegal logging and mining have contributed to its slow degradation. In an effort to preserve Development Alliance was formed with municipalities surrounding Lake Mainit as members. It focuses on the biodiversity conservation of Lake Mainit by jointly exploring and promoting sustainable agriculture, fishery, tourism, and mining around it. In 2011, Alegria passed MO No. 1 that provided for the sustainable management, development, and conservation of Lake Mainit. The Forest Land Use Plan, LCCAP, CDP-ELA, and CLUP integrates management and restoration of Lake Mainit, including projects and programs that minimize flooding in rice fields that are along the lake and prevent water siltation. Other projects and programs on environment management focus on reduction of solid waste and solid waste management, which are described in the CDP-ELA and draft Solid Waste Management Plan (SWMP). A Sanitation and Waste Management Board was reorganized in 2016 pursuant to Alegria's EO No. 23 to which one of its purpose is to develop the said SWMP as guided by the 2011 MO No. 02 also known as the Municipal Environmental and Sanitation Code of Alegria. Reduction in the usage of plastic is also one project being implemented in Alegria especially in public markets as described by MPDO Mosquito. The Municipal ENRO, with designate ENR Officer Omar Barillo, is assigned to implement tree planting activities and eco system management projects including

Malimono is a fifth class municipality endowed with rich upland and marine resources. Its total population reached more than 18,000 based on the 2010 Census. the lake, an intra-LGU alliance called the Lake Mainit Marine and agriculture are the main source of livelihood accounting for 31 percent of its working population.

Thirty percent of the population belong to the bottom

Municipality of Malimono

To keep progress sustainable, the city's Executive Legislative Agenda (ELA) of 2016 to 2020 and Comprehensive Land Use Plan (CLUP) 2011 to 2020 are built on a framework that includes a separate Environment component in the achievement of its vision. This component focuses on the preservation of the city's ecological balance with the following indicators: properly managed forest lands, coastal and marine resources, effectively managed solid waste management system, protected ecosystems and DRR and CCA integrated in LGU plans, policies and programs. The recent update in the framework shows the LGU's effort to implement and monitor the policies on DRR, CCA, and environment management and restoration.

Surigao City's CLUP reports that the city and its 54 barangays are susceptible to hydro-meteorological and geologic hazards like flooding, landslide, storm/coastal surge, earthquake and ground rupture. On January 2017 Surigao City was hit by Tropical Depression Auring that lasted for three days causing flooding and landslide to 24 affected barangays. There were damages to business and personal properties, infrastructure, and water and power supply interruptions. Although the cost of damages and injuries were serious, there was no casualty from this incident. Based on the same report, the City DRRM Council held an emergency meeting directing concerned agencies to conduct disaster emergency operation. Emergency response was initiated by concerned agencies: PNP conducted public announcement in barangays, port areas and evacuation centers; No Sail policy was implemented, BOF roved high risk areas, CSWDO distributed food relief to stranded passengers and evacuees and ERS conducted rescue operations in landslide-affected areas.

With barely a month to recover from the damages of flooding and landslide, Surigao City was hit by a 6.7



and protection are also part of the general policies listed in the CLUP.

bunkering in ports to avoid oil spills.

Opportunities for Advocacy

and staff:

DRRM; and

dialogue:

garbage on the streets. Environmental conservation

In 2017, an EO was passed creating a TWG for the

preparation of Forest Land Use Plan (FLUP). Engr. Tecson

shared that the FLUP that they are preparing will also

incorporate coastal management particularly in developing

coastal areas as well as in identifying hazard zones

considering there are people living along the coastline. Engr.

Tecson shared that in 2011, an ordinance was passed

through the CENRO that provides protocol for proper

The PRC, as a permanent member of the DRRM council,

holds an advantageous position in proposing integrated risk

management policies in the following opportunities for

Updating of DRRM and CCA Plan;

• Conduct of Community Disaster Risk

System to inform planning;

loans, NDRRMF and PSF.

• Setting-up of permanent DRRM Office, officer,

• Passage of pre-emptive evacuation ordinance;

Assessments and Community Based Monitoring

IRM programming using available budget for

• Accessing of other sources of fund e.g. DOF

Strengthened barangay DRRM committees;

The CDRRMO is the designated lead office and secretariat

of the LCCAP Core Team in the formulation, planning, and implementation of climate change action plans as stated in the city's EO No. 26 signed last June 2017. However, the LCCAP Core Team is still in the process of reviewing and updating the LCCAP. Nonetheless, CCA programs and projects are mainstreamed in the CLUP and the ELA, where implementation of programs and projects are seen through a sustainable development perspective. The AIP for 2017 also tags expenditures as support to climate change adaptation or mitigation. Although Engr. Tecson is familiar with the People's Survival Fund, the City has not tried to apply for funding for lack of information.

Aside from LGU-initiated activities, other stakeholders from CSOs and private sector hold events like biking activity for a cause and Earth Hour as an awareness campaign for reducing carbon emissions. Surigao Economic Development and Microfinance Foundation, Inc. (SEDMFI), a CSO that focuses on poverty reduction and sustainable community-based initiatives, also conducts numerous projects in Surigao City mainly to provide livelihood assistance to residents. Some of these projects are installation of deep wells in selected barangays, livelihood projects for farmers and fisherfolks, strengthening cooperatives among others.

The CENRO is headed by Engr. Tecson, whois also the concurrent head of DRRMO. The CENRO acts as Secretariat of Technical Working Groups concerned with environmental Endowed with these resources, the LGU of Alegria is moving towards using these to their advantage and aspiring to become a farming and tourist capital while sustaining the land's diverse ecosystem and building climate resilient and adaptive communities.

Climate in Alegria is classified as Type II which is described by PAGASA (2018) as having no dry season and a pronounced maximum rainfall. As shared by Alegria's DRRM Officer Engr. Roca Moca, flooding is common in Alegria with the most recent damages seen last January 2017 wherein flooding caused dikes to collapse. Engr. Moca also mentioned flash flooding as a common disaster in Alegria specifically along Magtiacao River towards Lake Mainit. In 2010, barangay San Juan, Alipao, and San Pedro experienced flash floods and unfortunately five casualties were reported due to the event. Earthquakes are also likely to occur in Alegria since Surigao del Norte "is one of the seismically active areas in the country because of the Philippine Fault and Philippine Trench, which are the main earthquake generators that can affect the area" (PHIVOLCS, 2017, para. 4). The 6.7-magnitude earthquake that hit Surigao City was felt in Alegria with no reported

The recently updated CDP-ELA and CLUP already integrates DRRM mechanisms that took into consideration the specific hazards prone to Alegria. The LGU also prepared and adopted a Contingency Plan on Flooding as a supplement to the CDP-ELA and CLUP, considering high occurrence of flood and flash floods in Alegria. In the CDP-ELA, the LGU prioritized capability building on preparedness and emergency response to disaster coordinating councils in barangays and construction or identification of evacuation centers. The CLUP incorporates urban development strategies that address flooding situation in urban areas of Alegria. As of this writing, Alegria's DRRM and LCCA plans are due for updating.

The CLUP's first objective is the formulation and implementation of a DRRM and CCA plans. It discussed data on Alegria's demographic profile, economic sectoral profile, environment profile, and risk estimation and evaluation incorporating results of vulnerability and

Pursuant to Alegria's EO No. 033, the Reorganization of the DRRM Council in 2017, it is the DRRM Council's duty to regularly review and test the DRRM plan and monitor its implementation. To assist the council as its Secretariat was the MDRRM Division which was created in 2015, pursuant to MO No. 003, under the Office of the Municipal Mayor. Engr. Moca, former Municipal Engineer, heads the Division as the DRRM Officer. The Division has only two staff; one permanent staff and one contractual staff. The LGU also passed Ordinance No. 2 in 2013 which implemented forced evacuation as a resort during disasters or emergency. There is also an Alegria Emergency Response Team dubbed as ALERT headed by Engr. Moca. However, the DRRMD still lacks a permanent operations center, which may pose as a challenge in emergency response.

Despite the lack of an updated DRRM Plan, projects and programs integrating DRRM and their corresponding budget are seen in the CDP-ELA and CLUP. In the Local Development Investment Plan of the CDP, a total of P20.1 million was budgeted for projects related to DRRM. In the CLUP, priority projects and programs under Environment Protective, Climate Adaptive & Disaster Resilient LGUs amounted to P59.9 million. On the other hand, Engr Moca shared that P3.6 million was allotted for the DRRM Fund.

The LCCAP for 2016 to 2030 mentions strengthening of existing institutional structures and mechanisms like the Municipal DRRM Council and CCA Technical Working Group to ensure implementation of the LCCAP. Documentation of the creation, members, and function of the CCA TWG are not available. However, functions and duties of the CCA TWG is described throughout the LLCAP, e.g. reviewing environmental regulations, assessment of programs and projects for prioritization, and monitoring and evaluation of programs and projects.

The LCCAP has identified Climate Change Initiatives to be implemented until 2030 on the following areas: temperature increase, flooding, rise in water level, typhoons with strong winds, and drought and dry spells. It identified three major sources of fund: National Government Agencies, funding from the LGU including the DRRM Fund, and non-government funding e.g. CSOs and private sector. The LCCAP also mentions other funding sources from the government like the Disaster Management Assistance Fund and People Survival Fund (PSF). Engr. Moca shared that the DILG gave an orientation on access to the PSF. In an interview with MPDC Edipolo Mosquito Jr., he shared that Alegria has been getting loans from the Department of Finance through the Municipal Development Fund Office (MDFO) for four years. He said that he plans to use the loan to buy equipment for responders during emergencies.

Lake Mainit is an important source of income for municipalities surrounding it, unfortunately destructive agriculture and

There are also mining regulation projects in Alegria due to the prevalence of un-organized small-scale mining operations in the upland area. The CLUP has specific Land Use Action Steps for Mining and Quarrying Area to regulate mining and protect watershed areas.

Opportunities for Advocacy

establishment of a sanitary landfill.

The PRC, as a permanent member of the DRRM council, holds an advantageous position in proposing integrated risk management policies in the following opportunities for dialogue:

> • Setting-up of permanent DRRM Office, officer, and staff.

• Updating of DRRM and CCA Plans; • Passage of pre-emptive evacuation ordinance; Strengthened barangay DRRM committees; • Conduct of Community Disaster Risk Assessments and Community Based Monitoring System to inform planning; • IRM programming using available budget for DRRM; and • Access to other sources of fund e.g. PSF and

NDRRMF Collaboration with the Alliance of municipalities to promote IRM approach in the management and development of Lake Mainit

poor and so a substantial number would mainly rely on the LGU for assistance. However the LGU is also dependent on the Internal Revenue Allotment for funding its projects and programs. Because of this it is even more crucial for the LGU to assist and lead the communities The LGU hopes to have an improved and sustained

economy and uplift the living condition of the population by 2020. It plans to address challenges in social welfare and economic development through disaster resilient communities, sustainable use of its resources, protected environment, and effective public leadership.

Malimono is classified under Climate Type II, which is characterized as having no pronounced dry season. Merely 5% of total land area of Malimono is considered flatland found along shore. The combination of having recurring rains and mountainous terrain account for its susceptibility to flooding and landslides especially in the mountainous areas of Malimono. Other hazards that affect Malimono are tropical cyclones, storm surges, and earthquakes. The MPDO Engr. Arnel Amalla recalls occurrence of flash floods every year that affects all barangays of Malimono while the most recent landslide happened in 2014 which took the life of four residents of Barangay Masagad. The 6.7-magnitude earthquake that hit Surigao City last January 2017 affected more than 2000 households of Malimono.

The recent CDP and CLUP integrated DRRM through the result of climate and disaster risk assessments that present detailed information on the context, susceptibility, and affected areas of each type of hazard. The Sector Development Plans of the CDP all contain goals and objectives related to DRRM. For Social Development, the LGU envisions increased resilience and preparedness to the effects of hazards through community orientations, strengthened barangays DRRMC, construction of evacuation centers, and acquisition of disaster support materials. For Institutional Development, the LGU envisions a crisis and disaster prepared municipality through strengthened barangays DRRMC and creation of disaster mitigation and crisis management councils. In the CLUP general land use policies are followed, one of which is prohibiting establishment of residential, commercial, and industrial structures in hazard prone areas. The CDP and CLUP listed policy options and priority programs related to DRRM e.g. formulation/enactment of an informal settlers program, construction of evacuation centers, acquisition of rescue materials and equipment, construction of seawalls and river control among others. The LGU also prepared a Flood Control Contingency Plan specifically because of the recurrence of floods in Malimono.

Malimono's five-year DRRMF investment plan has a projected budget of more than P17 million to fund projects and programs similar to the ones mentioned in the CDP and CLUP with corresponding budgetary requirements. Aside from projects and programs mentioned above the plan also includes information and awareness programs, data gathering on profiling and hazard information, flood control, sustained mainstreaming of DRRM in the CLUP, ELA, and LDIP. conduct of trainings and simulation exercises,

first SWM program prepared by the LGU and is now updated with the 2015 to 2024 Municipal Solid Waste Management Plan that was adopted through Res. No. 56-A in 2015. One of its objectives is to institutionalize a Waste Management Office. Similarly, in the CDP a Functional Solid Waste Management System is one of the strategies identified under the physical and environmental sector.

In 2011 an ordinance was passed for the sustainable management, utilization, development, and conservation of coastal and fishery resources of Malimono throug provisions for issuance of Fishery license, creation of a Fisheries and Aquatic Resources Management Council, creation of fishery law enforcement teams, among others. In 2017, the LGU drafted an ordinance enacting a Fisheries Code pursuant to RA 8550, also known as the Philippine Fisheries Code of 1998. In addition, the CDP identified coastal resource management program, fishery production and management, and formation or strengthened people's organization in the protection and conservation of coastal

resources

Municipality of Gigaquit

Gigaquit is one of the oldest municipalities in the province of Surigao del Norte and was once the mother municipality of Bacuag and Claver, which became separate municipalities in 1918 and 1955 under executive orders No. 61 and 126, respectively. It is located at Pacific Coast situated along the typhoon path, which is frequented by storms, cyclones and typhoons.

pronounced dry season but with maximum rainfall from

November to January. Three prevailing winds characterized

this type: the north east monsoon which appear from

November to February, the south-east monsoon which

come from July to September, and the trade winds which

prevail the rest of the year whenever the two monsoons are

There are five major typhoons that badly hit the area which

The Municipality of Gigaquit with the assistance of

NEDA-RDCS, HLURB-NMR and Provincial Government of

Surigao del Norte through PPDO was also one of the

recipients of the project of Mainstreaming DRR and CCA to

Local Plans and Decision-making Process as in the case of

CLUP and Zoning Ordinance back in 2009. No information

or discussion as to the process of developing the new CDP,

There is also no executive issuance or policy submitted as

basis in formalizing the DRRM council which confirms that

the council is inactive according to the challenges identified

DRRM Officer Ms. Bausing, prior to being designated as

DRRM officer she is a Nutrition Officer of the municipality.

Another is their newly constituted CCA Plan team

organized through an EO to act as a technical working

LCCAP and DRRMP are available.

group in updating their LCCAP.

The climate in the town is similar to the rest of the municipalities of the Province of Suriago del Norte, which is

However, similar to other LGUs DRR – Programs Projects and Activities (PPAs) are the same PPAs lined in the previous year under their AIP 2018 amounting to PhP 3,364,094 with budget taken from the LDDRMF, and also tagged as climate adaptation or mitigation PPAs. CDP, LCCAP and CLUP provides information on institutionalized solid waste management program, their 10 year Ecological Solid Waste Management was approved in 2009. Further, below are some of the existing policies that support proper

Municipality of Gigaquit

The entire municipality of Bacuag is comprised of nine barangays. However, a proposal has been passed making barangay Poblacion into two (2) barangays, which is yet to be approved. Its location is situated along the eastern part of the Province of Surigao del Norte. It is bounded on the northwestern portion by the Municipality of Placer and on the northeastern portion by the Hinatuan Passage. On the southeastern side, it is bounded by the Municipalities of Tubod and Alegria. Bacuag is 44 kilometers from Surigao City and 119 kilometers from Butuan City.

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on of a multi-purpose operation center, among others. Temporarily, the LGU designated the Women's Development and Training Building as the Emergency Operation Center through EP No. 14-2015.

Malimono DRRM Council was reorganized in 2016 through EO No. 12, listing the members of the council which includes DRRM Officer Mr. Artemio Suarez. Resolution No. 36 also reflects his appointment to this permanent position in 2015 and provides for a permanent position of DRRM assistant. Mr. Suarez shared that this position has been filled and aside from this additional six contractual staff are working for the DRRMO. He also shared that his office conducts information campaigns on all themes tackled in RA 10121 in Barangay general assembly twice a year. The DRRMO documented procedures for early warning and response during disasters that became Malimono's Standard Operating Procedure. In 2016 MO No. 6 was passed which also set procedures in implementing pre-emptive and forced evacuation during disaster. In the same year a Municipal Crisis Management Committee was activated to implement rescue operations during abductions.

The 8-year LCCAP was officially adopted in 2014 through MO No. 5. In 2016, EO No. 24 was passed reorganizing the LCCAP Core Team and Technical Working Group. The DRMM Officer Mr. Suarez is also the appointed focal person in charge of preparing and monitoring the LCCAP.

Projects and programs related to CCA are mainstreamed in the CDP, CLUP, and AIP. More than P12 million was allotted for CC adaptation and mitigation in the 2017 AIP. It funded projects and programs on delineation and sustainable management of a community watershed, coastal resource management, support to processing of flour, coco coir, fish, bricks, and charcoal, construction or concreting of roads, and construction of an evacuation center.

Malimono's Municipal Environment Code was enacted in 2013 through MO No. 7 to integrate the planning, implementation, monitoring, and evaluation of programs and projects on Land Resources Management, Solid Waste Management, and Coastal Resources Management.

In 2008 MO No. 57 was passed adopting the Ecological Solid Waste Management program of Malimono, which also provided the composition and responsibilities of the Solid Waste Management Board. This was the

occurred for the past 20 years which causes continued heavy rainfall that damages crops, residential houses and Malimono's FLUP was enacted under Reso. No. 16 in 2015. infrastructure projects. The recent storm surge hit in the A coastal resource management model called "Ridge to Reef" was used as a framework in planning process of the area was on 2009 has altered the natural physical form of the river mouth of Gigaquit river. The coastal barangays of CLUP and FLUP to take into consideration the fact that Alambique, Anibongan and Ipil are prone to this kind of Malimono is surrounded by bodies of water including 31 hazard. Flood prone areas cover nine barangays with slight sub watersheds. Mr. Ronald Dela Cerna is the designated to moderate flooding. These areas have flood occurrences MENR Officer but mainly functions as a staff under the Planning Office. In the FLUP, one of its objectives is an from once every ten years lasting for an average of one to two day's duration. Gigaquit has no record of the landslide institutionalized MENR Office and hiring of a MENR Officer, occurrence in the advent of ground shaking such as the creation of which is crucial in the implementation of the earth-quake. However, 6 barangays of the municipality are SWMP, FLUP, and coastal resource management. Also part susceptible to rain induced landslides with a susceptibility of forest conservation is the declaration of the first day of rating of low to moderate and these are the barangays of November of every year as Arbor Day or Tree Planting Camamonan, Mahanub, Camboayon Lahi, San Isidro and under MO No 11-2016 and providing guidelines for its Sicosico. celebration.

Unregulated small scale mining through destructive methods put Malimono's environment at risk. There have been efforts to regulate through ordinances like prohibition of placer method of mining (MO No. 10-2011) and prohibition of illegal mining operations (MO No. 1-2012) however implementation has not been very strict. In the CDP, the LGU hopes that legalization of small-scale mining through formation of Minahan Ng Bayan will help manage mining activities.

Opportunities for Advocacy

The PRC, as a permanent member of the DRRM council, holds an advantageous position in proposing integrated risk management policies in the following opportunities for dialogue:

> • Updating of DRRM and CCA Plans: • Strengthened barangay DRRM committees; Conduct of Community Disaster Risk Assessments and Community Based Monitoring System to inform planning; • IRM programming using available budget for DRRM; and • Access to other sources of fund e.g. PSF and

NDRRMF.

waste management practices: classified as Type II. This has the absence of the

 Sewerage Ordinance No. 2015-88 • Provincial Resolution No. 121: Resolution Declaring Valid ordinance No. 2015-88 of Gigaquit, Surigao del Norte, entitled, an Ordinance Establishing a Proper Sewage Treatment and Septage Management System in the Municipality of Gigaquit, and prescribing penalties thereof • Throwing of Waste Ordinance No. 2016-100

There are also existing policies that supports the implementation of Environment Management and Restoration as submitted by the municipality under the responsibility of Mr. William R. Enario, the current MENR Officer.

 Coastal Resource Mgt Ordinance No. 2016-95 • Complaint Siltation Claver Mining Res. 2015-06 • Declare Non-Housing Area River Bank Below Clagiba Res. 2014-06 • DENR Sustainable Coral Reef Ecosystem Project Res. 2015-09 • DOST Mangrove Project 1 million Res. 2015-49 • Ecological Waster Mgt Code Ordinance No. 2017-110 • Mangrove Project Res. 2014-36 Marine Protected Area Plan Res 2016-92 Municipal Envi Code Ordinance No. 2017-107 • No Mining Policy- Clarifying areas covered Res. 2015-73

 Purchase Material Recovery Facility for Waste Mgt Lot Res. 2014-30 • Res. 2017-11 Declaration of WaterShed Areas • Res. 2017-42 Extraction of Sand and Gravel • Watershed Areas Res. 2012-27 • Throwing of Waste Ordinance No. 2016-100 • Sewerage Ordinance No. 2015-88

Opportunities for Advocacy

PRC as a permanent member of the DRRM council holds an under CDP 2017. One of the progresses noted is their advantageous position in proposing integrated risk recently passed ordinance creating a DRRM division under management policies in the following opportunities for the office of the Mayor and a corresponding EO designating dialogue: the required staff. However, as disclosed by the designated

> • IRM programming using available budget for DRRM and • Issuance of Executive Order institutionalizing DRRM Council of the LGU





later re-organized through EO no. 13 series of 2016. However, the DRR officer and staff are only serving under a job order agreement.

As to contingencies, the municipality has a plan for Flood 2012-2016 and a draft Disaster SOP according to Mr. Panilag. As to DRRM planning, although they are still in the process of reviewing their 5 year plan which expired in 2016, they have an existing 10 year Comprehensive Land Use Plan (CLUP) 2014-2023 which already mainstreams DRR and CCA. For CCA standards, the source of information is limited to the interview transcript from the DRR Officer since the municipality was not able to forward

some of the documents. According to the DRR officer, it is the Planning officer who acts as the focal person for CCA. DRRM budget for 2017 was PhP 3,038,915.43.

The municipality has an approved environment code which includes a chapter on Solid waste management system and creates a solid waste management board. There is no information as the existence of an approved Solid waste management plan. There is no definite information if there is a current MENRO officer, the CDP 2012-2016 mentions that the municipality "will" create its MENRO between 2011 and 2016. On the other hand, the Contingency Plan for Flood (program) mentions the establishment of MENRO under its MDRR plan between October to December 2013.

Further, indicated as issues and concerns under their 2011-2016 CDP were: poor compliance on waste segregation; Weak enforcement of laws on SWM;

Inadequate SWM facilities; Incidence of Illegal Fishing; Incidence of Illegal cutting of trees. There are also physical development challenges that were highlighted under their MCLUP 2014-2023, such as effects of flooding, danger zones, disappearing forest, mining policy and maintenance of coastal ecosystem.

No information is available as to existing forest and coastal management projects.

Opportunities for Advocacy

The PRC, as a permanent member of the DRRM council, holds an advantageous position in proposing integrated risk management policies in the following opportunities for dialogue:

• Appointment of new DRRM Officer; Invest in forest management projects; • Passage of pre-emptive evacuation ordinance; • IRM programming using available budget for DRRM; and • Access to other sources of fund e.g. DOF loans

and PSF.

Recommendations

Advocacy areas can be limitless, however for a more successful advocacy the program has to plan strategically. Possible interface dialogue between the PfR and LGUs may focus on the gaps observed between actual policies, plans and programs of LGUs and standards set by the law. Below are improvement areas observed in all LGUs:

1. Access to national funds – The PRC, through the PfR project, and in coordination with the province and appropriate government agency, to conduct a training on technical proposal development to develop capacity of LGUs in strategic and comprehensive planning to increase opportunity of accessing national funds such as the NDRRMF and Survival Fund and DMAF. One of the noted challenges of LGUs is the technical capacity of preparing project proposals as one of the requirement of the funding agency. This proposal always goes through a strict review and usually is the cause of disapproval or non-compliance to the requirement.

2. Establish a permanent DRRM officer and personnel -Poor planning and weak implementation of the law can be attributed to the lack of an appropriate personnel who are equipped with the technical capacity and skills to lead DRRM and CCA activities. It is important for every LGU to prioritize the creation of a plantilla position for a DRRM officer and its personnel and subsequently hiring of qualified DRRM officers and staff to fill these positions.

3. Review, update and improve mainstreaming of DRR-CCA-EMR in the local development plans - Since most of the selected LGUs were recipients of technical assistance from NEDA and HLURB on DRR-CCA <u>mainstreaming,</u>

most development plans have already mainstreamed but there is still opportunity to strengthen capacity in strategic planning wherein plans correspond to the goals of the LGU and focused on specific needs of communities.

There is opportunity for the PRC to conduct capacity building activity focused on strengthening LGU's knowledge, abilities, and skills on strategic planning and risk management as they prepare to update their development plans as well as their DRRM plans. The importance of regularly conducting risk assessments and gathering data through CBMS should also be emphasized as these are tools that will help in identifying risks as well as available resources and capacities that will reduce or prevent potential damages of these risks. This is also where PRC can conduct IRM training as take off point to the planning process.

4. Strengthen DRR-CCA-EMR governance – Advocate for importance of functional councils and committees especially in the barangay level. Because of their proximity to the community, barangay committees are among the first to respond to disaster-affected areas and therefore it is crucial that barangay DRRM committee are capable and equipped to act on its functions and responsibilities.

5. Improve DRR-CCA-EMR-related knowledge management – Mainstreaming DRRM and CCA should not be limited to incorporating plans, policies, and projects in the LGU's development plans but can also be achieved by promoting a culture of preparedness in the community. When LGUs are able to collect and manage data and information about DRR-CCA-EMR it makes access to and sharing of information to other LGUs and communities easier. Transfer of DRR-CCA-EMR related information helps build awareness among government, organizations, and communities about the risks, thereby empowering them with ways to prevent or prepare for

these risks.

Annex: Matrix of DRR-CCA-EMR Policies and Plans

Surigao del Nor	rte		Surigao City		of Forest Area • DRRM CCA Plan • MO No. 02 Series of 2011 Municipal	DRRMO
InputStandardsDRR STANDARDS10rganized and functional Local Disaster Risk Reduction and 	Actual/Evidence (cite reference document)Comments1.1 EO 045-2016 1.2 Only 3 CSO representatives, PRC, Reach Foundation and SEDFI 1.3 2nd Quarter Full report, June 2017Image: Comment of the second seco	EO 045-2016 – Reorganizing the PDRRM Council Executive Order No. 16-025 - Creating the Provincial Disaster Risk Reduction Management –	InputStandardsActual/Evidence (cite reference document)CommentsDRR STANDARDS1Organized and functional Local Disaster Risk Reduction and Management1.1 Members 1.2 Four 4 CSO Representatives; 1 Private Sector Representative 1.3 Quarterly meetings or as necessary1.1 EO No. 9 Series 2017 1.2 3 CSOs: Phil Red Cross, Kapisanan ng mga Brodkasters ng Pilipinas, Tricycle Drivers'Association; 2 Private: The Surigao Chamber of Commerce and Industry, Surigao Medical Society 1.3 "As frequent as necessary"; as per KII 	S Policies EO No. 33A Series 2013 Reorganizing the CDRRM Council EO No. 9 Series 2017 Reorganizing the CDRRM Council	Image: Provide the set of the set o	PROVINCIAL RESOLUTION NO. 121: RESOLUTION DECLARING VALID ORDINANCE NO. 2015-88 OF GIGAQUIT, SURIGAO DEL NORTE, ENTITLED, AN ORDINANCE
	2.2 Engr. Marilyn Pono –OIC PDRRM Officer Zosilito Torrecampo – Planning Gilberto Gonzales - Operationsper thematic PPAs Risk2.3 EngineerReport and2.4 PDPF2008-2017/ LCCAP 2016-2020/AIP 2018/PDIP 2017-2022/ Contingency Plan for Tropical Cyclone / Contingency Plan on LandslideProvincial Development and Physical Framework Plan	2015 – An Ordinance Creating the Provincial Risk Reduction and Management Office of the Province of Surigao del Norte defining its functions	Councilemergency or if typhoon is forecasted2Establishment of Local Disaster Risk Reduction and Management2.1 Mandatory Office 2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and planning; and operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster2.1 CO No. 318 Series 2011 2.2 EO No. 11 Series 2013 CDRRMO Atty. Manuel G. Coro but was replaced by Engr. Elmer Tecson since January 2017; There are already 2 permanent positions 	CO No. 318 Series 2011 An Ordinance Creating the Disaster Risk Reduction and Management Office, Providing Funds Therefor, And For Other Purposes EO No. 9 Series 2013 Reorganizing the CDRRM Council DRRM Plan (2015?)	Malimono Input Standards Actual/Evidence (cite reference document) Comments Policies	ESTABLISHING A PROPER SEWAGE TREATMENT AND SEPTAGE MANAGEMENT SYSTEM IN THE MUNICIPALITY OF GIGAQUIT, AND PRESCRIBING PENALTIES THEREOF • Throwing of Waste Ordinance No. 2016-100
Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System	t t t t t t t t t t t t t t t t t t t	Executive Order No. 16-001 - Creation of PDRRMO Sub-Office in Siargao Island Executive Order No. 16-016 - Creation of the Provincial D. Evaluation Team for the Seal of Disaster Preparedness fore Barangays 2016. 2.4 Resolution No. 069, s.2016 - Authorizing the Provincial Governor to utilize portion of 2015 Trust fund to L procure emergency GSM equipment and systems for disaster response 2.4 Resolution No. 122, s.2016 -	 Allocation of LDRRM Fund Allocation of LDRRM Fund Allocation are used to the construction of the constructi		DRR STANDARDS Management Board Management Board Management Board Management Board 1 Organized and functional Local Disaster 1.1 Members 1.2 Four 4 CSO Representatives; 1 1.1 EO No. 12-2016 - reorganizing the municipal 1.3. (proof of meeting) 1.1 EO No. 12 Series of 2016 3 KNRO Office Appointment of designation of designation of exception private Sector Private Sector: Priva	anizational Profile CDP 2017,LCCAP's PPAs are mostly infra projectsCoastal Resource Mgt Ordinance No. 2016-95 Complaint Siltation Claver Mining Res. 2015-06 Declare NonHousing Area River Bank Below Clagiba Res. 2014-06 DENR Sustainable Coral Reef Ecosystem Project Res. 2015-09 DOST Mangrove Project 1 million Res. 2015-49
	Recognition for being actively assisting in the implementation of the Early	contingency plans, protocols and policies of the of the province of Surigao del Norte 2.4 Executive Order No. 16-043 - Institutionalizing Mandatory Basic Training Program on Disaster in All Barangays and Formulate Contingency Plans for Each Hazard (Landslide, Tsunami, Storm Surge and	 Land Use Plan Plan (2015?) LDRMF Investment Plan 2017 4.2 City Development Council Resolution No. 15-2011 A Resolution Adopting and Favorably Endorsing to the Sangguniang Panlungsod, the City Comprehensive Land Use Plan 2011-2020, Integrating DRR and CCA; ELA 2016-2019: City development framework under the key development area of Environment sites integration of DRR and CCA in LGU plans, policies, and programs 4.3 Surigao City Zoning Ordinance Capacity Building and Public Awareness S.1 Orientation/ training on DRRM 5.2 Public Awareness S.1 CDDRM Plan (2015?) under Strategies and Activities: Synchronized General Assembly by each 54 City Barangays on Information Education Campaign and 		Pefence/Disaster Risk Management Experience (IMC 2014-1) Local DRRM Assistant only 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Experience (IMC 2014-1) Program 3 Allocation of LDRRM Fund 3.1 S% allocation from Internal Revenue Allotment 3.1 AIP 2017 Total CCA/CCM tagged budget: Planning, Local Risk Planning, Local Risk Planning, Local Risk 10.50 Allocation of Crown Internal Revenue Allotment 3.1 AIP 2017 Total CCA/CCM tagged budget: Planning, Local Risk Planning, Local Risk Planning, Local Risk 10.50 Planning, Local Risk 10.50 Planning, Local Risk 10.50 Planning, Local Risk 10.50 Planning, Local Risk 10.50 Planning, Local Risk Planning, Local Risk Planning, Local Risk Planning, Local Risk Planning, Local Ris	
	 (Anao-aon) and Barangay San Carlos, Dapa, Surigao del Norte. The Plaque and Certificate of Recognition was given by the Philippine Institute of Volcanology and Seismology (PHIVOLCS) and 	No. 16-046 - An Order Creating the Pre-Disaster Risk Assessment (PDRA) and the Rapid Damage Assessment and Needs Analysis Teams of the Province of Surigao del Norte 2.4 RESOLUTION AUTHORIZING THE	ProgramsEducation and Orientation on Disaster Risk Reduction Plans and Management As per interview with Engr. Tecson the City will be conducting barangay trainings on DRR on 2018. 5.2 As per interview with Engr. Tecson, the city facilitates implementation of fire drills and earthquake drills in schools, malls, and hospitals6Emergency Response6.1 DRRM Operations Center 6.2 Pre-emptive evacuation6.1 No data 6.2 None as per interview with Engr. Tecson7Other sources7.1 Accessed MDF7.1 No		4 Local Disaster Risk Reduction Management Plan 4.1 Annual Budget 4.2 Integrated in Comprehensive Development Plan and Comprehensive Development Plan and Simulation Campaign every Assembly (twice a year) MDDRM Plan - Capacity building (training and simulation exercises) 4.2 no official document re adoption of CDP 2016-2021 5 Capacity Building and Awareness 5.1 Information Campaign every Assembly (twice a year) 4.2 no official document re adoption of CDP 2016-2021 4.2 no official document re adoption of CDP 2016-2021 6 5.1 Norientation/ training on DRRM Awareness 5.1 Information Campaign every Assembly (twice a year) 5.1 MDRM Plan - Capacity building (training and simulation exercises) 6.1 MDRM Plan - Capacity building (training and simulation exercises) <td>Declaration of WaterShed Areas Res. 2017-42 Extraction of Sand and Gravel Watershed Areas Res. 2012-27 Throwing of Waste Ordinance No. 2016-100 Sewerage Ordinance No. 2015-88</td>	Declaration of WaterShed Areas Res. 2017-42 Extraction of Sand and Gravel Watershed Areas Res. 2012-27 Throwing of Waste Ordinance No. 2016-100 Sewerage Ordinance No. 2015-88
	Project Director at Cebu Waterfront Hotel and Casino, Cebu City on	THE 2015 PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT FUNDS FOR PROCUREMENT OF TACTICAL RADIO MASS COMMUNICATION, BARANGAY DISASTER DATA PROFILING, AND OPERATIONALIZATIO N OF PDRRM OFFICE AMOUNTING TO THREE MILLION EIGHT HUNDRED	7 Other sources 7.1 Municipal Development Fund 7.2 NDRRMF 7.1 Accessed MDF from DOF 7.2 Accessed NDRMF 7.1 No 7.2 No 7.2 No Tother sources 7.1 Municipal Development Fund 7.2 NDRRMF 7.2 NDRRMF 7.2 No Tother sources Fund 7.2 NDRRMF Tother sources Fund 7.2 NDRRMF Image: Sources Fund 7.2 NDRRMF Image: Sources Fund Change Action Plan or Integrated in other Plans 1 Local Climate Change Action Plan or Integrated in other Plans 1.1 Appointment of Focal person to formulate and implement 1.2 Regular updating 1.3 Climate Change programs and projects 1.1 EO No. 26 Designates DRRM Office as LCCAP Lead Office 1.2 DRRM Plan not updated 1.3 Integrated in AIP 2017 2 LCCAP Fund 2.1 Authorized use 2.1 AIP 2017 Transcript	EO No. 26 Reorganization of LCCAP Core Team	 Image: Second Sec	No actual proof of MDRRMO neetings RC, Bacuag Mo actual proof neetings RC, Bacuag Mo actual proof neetings RC, Bacuag Mo actual proof Reorganizing the
3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)			2 Let a Hundred user of Internal Revenue Allotment 2.2 Access to PSF 2.2 DRRM Officers are vaguely aware of PSF Interview with DRRM Officer 5 EMR 1 Solid Waste Management 1.1 Approved Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, 1.1 Ecological Solid Waste Management Plan 2015- 2024 1.1 Ecological Solid Waste Management Plan 2015- 2024		Image: Problem in the sector of the secto	CSO's unverifiedand Management Council; updating 2. Municipal Ordinance No. 01 Series of 2013 – Disaster Risk Reduction and Management Ordinance of Bacuag;Io. 01 Series ofThe staff for MDRRMO has2.1 Executive Order N. 13, Series of 2016 –
4Local Disaster Risk Reduction Management Plan4.1 Annual Budget 4.2 Integrated in Comprehensive Development Plan and Comprehensive Land Use Plan	-158,460,000their plans,4.2 Provincial Development and Physicalmainstreaming.Framework Plan – Focused on Preparedness	Resolution No. 075, s.2016 - Adopting the Disaster Risk Reduction and Management Plan of the Province of Surigao del Norte CY 2016-2020 4.2 Resolution the DRR-CCA enhance Provincial Road Network Development Plan (PRNDP) 2017-2022 of the Province Surigao	 in the pipeline is the "Oplan Kuha Sec 3 IRR) 1.2 Local Solid Waste Management Board in the pipeline is the "Oplan Kuha Cellophane" program as a waste segregation initiative that will be implemented in all barangays of the city however Engr. Tecson still needs to draft the ordinance Environment and Natural Resources Office Appointment or designation of ENRO officer Forest/Coastal Management Projects Comprehensive Land Use Plan 2011-2020 Executive Legislative Agenda under Environmental Management 		2 LCCAP Fund 2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF 2.1 AIP 2017 2.2 No data 2.2 No data 2.1 AIP 2017 2.2 No data 2.2 No data 2.1 AIP 2017 2.2 No data 2.2 No data 2.4 With Contingencies for: a Flood 2012-2016 b. CLUP 2014-2023 (Resol Warning, 2.3 Qualification of LDDR Officer 2.3 Qualification of LDDR Officer 2.3 Qualification of LDDR Officer 2.3 Qualification of LDDR Officer 2.3 Qualification of LDDR Officer 2.4 With Contingencies for: a Flood 2012-2016 b. CLUP 2014-2023 (Resol Waste Management Solid Waste Management Commission adopting the 2015-2024 Municipal Solid waste management program of Malimono Resolution No. 56-A:2015 - resolution adopting the 2015-2024 Municipal Solid waste management ploot and favorably endorsing the same to the NSWMC NSWMC Resolution no. 636-2016 NSWMC Resolution no. 636-2016 NSWMC Resolution no. 636-2016 Article IV Sec. 4- Municipal Solid Waste Management and Contingency Planning, Local Risk Management and Contingency NWIti-Hazard	identified during Local Risk Reduction perience the interview, job and Management order positions Council; updating only. 2.2 Municipal Ordinance No. 01 The Flood Series of 2013 –
5 Capacity Building and Public Awareness Programs 5.10rientation/train ng on DRRM 5.3 Public Awareness	AIP 2018, PDRRMC 2nd Meeting June 1, 2017, PDDRMO 1st and 2nd qtr report 2017 Lined up activities for 2018	del Norte8Resolution No. 117 s.2016 - Enjoining all public and private Elementary, Secondary and Tertiary Institutions in this Province to integrate in their respective curricula-Disaster Risk Reduction and Management System and Climate Change Adaptation 2.4 Executive Order	Alegria Actual/Evidence Comments Input Standards Actual/Evidence Comments DRR STANDARDS 1.1 EO No. 033 Series 2017 1.1 EO No. 033 Series 2017	s Policies	Image: Note of the solution of approximation approximation of approximation approximation of approximation approximation approximation approximation approximation of approximation approximate proximate proximation approximation approximation ap	adopted version.adopting the CCA-CLUP and ZoningCannot give full review on disaster SOP, file provided is an incomplete draft.Ordinance. SP Resolution No. 2017 Series of 2014 approving the Municipal CLUP
		No. 16-043 - Institutionalizing Mandatory Basic Training Program on Disaster in All Barangays and Formulate Contingency Plans for Each Hazard (Landslide, Tsunami, Storm Surge and Man-Made Calamities)	and functional Local Disaster Risk Reduction and Management1.2 Four 4 CSO Representatives; 1 Private Sector Representative 1.3 Quarterly meetings or as necessary1.2 5 CSOs: Phil Red Cross, San Pedro Irrigators Association Incorporated, Alegria Sports Club, Masipag United Farmers Association for Sustainable Agriculture of Alegria, Ombong Farmers Development Association; 1 Private: Upsilon Phi Sigma 1.3 "The council shall meet least once every three months." "The chairperson may call for a special meeting as he may deem necessary."2Establishment of Local Disaster Risk2.1 Mandatory Office 2.2 Headed by a2.1 CO No. 003 Series 2015 2.2 Headed by Engr. Roco Moca 2.3 Former Municipal Engineer	2017 Reorganizing the Municipal DRRM Council CO No. 318 Series 2015 An Ordinance Creating the Local	Image: Construction of the Municipal Ordinance of the Municipal Ordinance No. 4-2011 - Coastal Resource Management Ordinance of the Municipal Ordinance No. 4-2011 Municipal Ordinance No. 4-2011 4 Local Disaster Risk Resource Management Plan and Comprehensive Dise of 2014 4.1 Flood 2012-2016 4.2 CLUP 2014-2023 (Resource Management No. 16, series of 2015 4.1 Minue Subject of 2014 4.1 Flood 2012-2016 4.2 CLUP 2014-2023 (Resource Management No. 16, series of 2015 4.1 Minue Subject of 2014 4.1 Flood 2012-2016 4.2 CLUP 2014-2023 (Resource Management No. 06, series of 2015 4.1 Minue Subject of 2014 4.1 Flood 2012-2016 4.2 CLUP 2014-2023 (Resource Management No. 06, series of 2015 4.1 Flood 2012-2016	adoption of CDP 2016-2021adopting the Flood Contingency Plan. 4.2 SB Resolution No. 56 Series of 2013 adopting the CCA-CLUP and Zoning Ordinance.ainingsNo details of actual trainings5.1 SB Resolution No. 14 Series of 2013
6 Emergency Response 6.1DRRM Operations Center 6.2 Pre-emptive evacuation	6.1 6.2 None - Interview Transcript PDDRRMO	Executive Order No. 16-044 - Requiring LGUs to Identify Private/Public Buildings Including Residences, as Evacuation Centers and Providing Trainings and Government Support in Times of Calamities.	Reduction and Management OfficeLDRRM Officer with 3 staff: administration and training; research and planning; and operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk2.4 DRRM Plan 2013-2016; Plan is currently being updated Contingency Plan on Flooding 2016-2021 MO No. 2 Series 2013 Force Evacuation Presence of early warning system in all 12 barangays (DRRM and CCA Plan Chapter 1)2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management Experience (JMC 2014-1)2.4 Risk Assessment and Contingency Planning, Local Risk	Disaster Risk Reduction Management Division Under the Office of the Municipal Mayor and the Positions Under Said Office, Determining the Powers, Duties and Functions Thereof	Gigaquit Input Standards Actual/Evidence (cite reference document) Policies DRR STANDARDS 1.1 Yes. According to DRRM Officer refer to 1.1 Inactive No Ordinance	
1Local Climate Change Action Plan or Integrated in other Plans1.1 Appointment of Focal person to formulate and implement 1.2 Regular updating 1.3 Climate Change programs and projects2LCCAP Fund2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF	2.1 AIP CY 2018 2.2 Transcript		Map, Multi-Hazard Map, Multi-Hazard Barly Warning System Allocation of 3.1 5% allocation Image: LDRRM Fund Allocation from Internal Revenue Allotment Revenue Allotment Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2 Local Disaster 4 Local Disaster		Council Structure 1.3 Inactive DRRM Council according to CDP Chapter VI Section V: DRRM and CCA pg 35 / 1 Local Climate Change 1.1 Appointment of Focal person to 1.2 Cannot verify, cannot according to 1.2 Cannot verify,	the training/workshop on disaster preparedness and management.d Contingency PlanNo complete copy of Disaster SOP61. LDIP 2017-2019ono specifics access the CCA file1.1 Source is MDRRMO1.1 PRC Interview of MRDDMO Panilag
EMR 1 Solid Waste Management Approved Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) 2 Solid Waste Local Solid Waste	additional requirements (due September) No copy provided	Executive Order No. 16-019- An Executive Order Creating a Provincial Solid Waste Management Technical Working Group (PSWM-TWG), Defining Its Roles, Functions, and Providing Funds Therefore	Risk Reduction Management Plan4.2 Integrated in Comprehensive Development Plan and Comprehensive Land Use PlanEnvironment Protective, Climate Adaptive & Disaster Resilient LGUs of CLUP total budget P59.9 million4.2 CLUP 2015-2025 aimed to "somehow serve as guide in some municipalities of the country in mainstreaming DRR+CCA and bio-diversity initiatives to their respective CLUPs and Zoning Ordinance and above all, this plan will direct our people and local officials to be more resilient in the adverse effect of disasters and the ever-changing climatic condition that we are experiencing at present which resulted to the increasing number of strong typhoons, frequent flooding, landslides and earthquakes that will affect the development agenda of the		2Establishment of Local Disaster Risk Reduction and Management Office2.1 Mandatory Office 2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and giver fits and Diffice2.1 Ordinance 2017-106, EO 2017-07 2.2 Nelma Bausing-DRM Officer Jerom Armendarez- Planning Elvira Amarante - Operations 2.3 Plantilla Nutrition Officer 2.4 CluPOrdinance 2017-106 Creating DDRM Division under office of the Mayor 2.4 CluPOrdinance 2017-106 Creating DDRM Division under office of the Mayor 2.4 CluPordinance 2017-106 Creating DDRM Division under office of the Mayor 2.4 CluPordinance 2017-07 EO 2017-07: 2.4 CluP2.1 Cannot verify, cannot ar provided.ordinance 2017-07: 2.4 CluP2.1 Authorized use of the Mayor 2.4 CluP2.1 Cannot verify, cannot ar provided.2.1 Cannot verify, cannot ar provided.2.1 Cannot verify, cannot ar provided.2.1 Cannot verify, cannot ar provided.0DDRM Officer: Civil DEPRM Officer: Civil DEPRM Officer: Civil DEPRM Officer: Civil Defence/DisasterNo contingency plan Purchase of Early Warning DeviceNo early warning system CDP Chapter VI Section V: DRRM21 CCAP Fund Section V: DRRM2.1 Cannot verify, cannot ar provided.2.1 Cannot verify, cannot ar provided.0Ibage diffection of LDDRM Officer: Civil Defence/DisasterDrant gene diffection of LDDRM Officer: Civil Defence/DisasterNo early warning Section V: DRRMSection V: DRRMThe Plans DR1.2 Regular updating DR2.1 Cannot verify, cannot ar provided.0DDRDifficer Chapter VI Section V:	
ManagementManagement Board3ENRO OfficeAppointment or designation of ENRO officer	HChecklist attached to the Resolution - Compliance to Institutional ArrangementAtty. Aimee Faith M. Egay - PEMOSecond Second S	• Executive Order No.	Iocality." CDP/LDIP No. 1 objective: To formulate and implement DRR/CCA and biodiversity enhanced CLUP5Capacity Building and Public Awareness Programs5.1 Orientation/ training on DRRM 5.2 Public Awareness Programs5.1 Orientation/ training on DRRM 5.2 Public Awareness Programs5.1 DRRMCCA Plan mentioned that all local officials shall be capacitated in DRRM and CCA through trainings (Introduction). 5.2 DRRMCCA Plan mentioned sustained conduct of earthquake drill as capacity (Chapter 1).		3 Allocation of Sunda Sund	vears by No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 Municipal Ordinance No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009
4 Reforestation and Coastal Management Projects	 Corals, mangrove and seagrass Corals, mangrove and seagrass Development of natural wind breakers(mangrove areas) and structural windbreakers Establishment of green easements with mangroves along the coastlines Corals, mangroves and seagrass Corals, mangroves and seagrass Corals, mangroves and seagrass transplantation To identified coastal areas. Protected Area Management Board Rehabilitation of Integrated Coastal Resource Management (CREM) for Sustainable Communities in HIPADA (funded by PSF) – counterpart - AIP CY 2018 Implement SWM program and activities; 2. 	 Plan for Coastal Resource Management and for Its Implementation. • Executive Order No. 16-023 - Prohibiting Large Scale Exploration of Minerals and Expansion of Mining Operations of Mining Companies in the Province of Surigao e del Norte 	6Emergency Response6.1 DRRM Operations Center 6.2 Pre-emptive evacuation6.1 temporary operations center 6.2 MO No. 2 Series 2013 Force Evacuation DRRMCCA Plan mentioned availability of evacuation centers/sites (Chapter 1).CCA1Local Climate Change Action Plan or Integrated in other Plans1.1 Appointment of Focal person to formulate and implement 1.2 Regular updating n.3 Climate Change programs and projects1.1 Designates DRRM Officer. CCA TWG 1.2 CCA Plan 2016-2030 1.3 CCA Plan Chapter 62LCCAP Fund2.1 Authorized use of Internal Revenue Allotment2.1 2.1 2.2 DRRM Officers are vaguely aware of PSF		Reduction Management PlanComprehensive Development Plan and Comprehensive Land Use PlanInterception of the solutionHowever, CLUP 2011-2020 attempts to mainstream DRR and CCA, in compliance with NEDA and HLURBHowever, CLUP 2010-2020Office5Capacity g on DRRM5.1 Yes, AIP 2017 and 2018Lined up activities for 2018Solution of the solution of the s	SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 - Chaired by the Municipal Mayora the creation of al Code did notThe CDP 2012-2016 however mentioned that the municipality "will" create its MENRO between 2011 and 2016. On the other hand, the Contingency Plan for Flood (program) mentioned the establishment of
	Enhancement of the 10-year Provincial Solid Waste Management plan AIP CY 20182015-2020. • Table19: Mitigation/Adapt ation Initiatives for Typhoons with strong winds 2015-2020.Implement NRM program and activities; 2. Formulation of Coastal Resource Management Plan; 3. Formulation of Marine Protected Area (MPA) Network Management Plan, and 4. Formulation of Provincial Environment Management Plan AIP CY2015-2020. • Table19: Mitigation/Adapt with strong winds 2015-2020. • Table 21: Mitigation/Adapt ation Initiatives	 See LIST OF PROTECTED AREA MANAGEMENT BOARD (PAMB) RESOLUTIONS CY 2016 UNDER SIARGAO ISLAND PROTECTED LANDSCAPE AND SEASCAPE (SIPLAS) (Provincial Annual Accomplishment report 2016) RESOLUTION NO. 100 RESOLUTION DECLARING VALID THE MUNICIPAL ORDINANCE NO. 2015, - 06, ENTITLED 	EMR1Solid Waste Management Plan by the National Solid Waste Management Plan by the National Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) 1.2 Local Solid Waste Management Board1.1 Draft SWMP. DRRM CCA Plan mentioned that implementation of Ecological Solid Waste Management Program as one of their capacities (Chapter 1) MO No. 02 Series of 2011 Municipal Environmental and Sanitation Code 1.2 EO No. 23 20162Environment and NaturalAppointment or designation of• MENRO Designate Omar Barillo		Public Awareness Programs 5.2 Public Awareness Programs 5.2 Public Awareness Programs a.a. under AIP 4 Reforestation and Coastal Management 4 Reforestation and Coastal Management Forest Management No evidence of Forest Management 6 Emergency Response 6.1 DRRM Operations Center 6.2 Pre-emptive evacuation 6.1 Yes, see pictures 6.2 Evacuation 6.2 No Pre-evacuation ordinance Forest Management No evidence of Forest Management 1 Local Climate Change Action Plan or integrated updating 1.2 Yes according to LDRRMO- Recently updated 2016-2020 LCCAP LCCAP does not provide any qualitative analysis, most are figures and tables. Executive Order No. 01, Series of 2017 creating the Local Climate Change Adaptation Plan Team 1.2 Yes according to LDRRMO- Recently updated 2016-2020 LCCAP LCCAP does not provide any qualitative analysis, most are figures and tables. Executive Order No. 01, Series of 2017 creating the Local Climate Change No evidence of Forest Management Adaptation Plan Team 1.2 Yes according to LDRRMO- Recently updated 2016-2020 LCCAP Executive Order No. 01, Series of 2017 creating the Local CCAP No evidence of Forest Management Management Projects	MENRO under its MDRR plan between Oct Dec. 2013Municipal Ordinance No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 - Providing for forest resources managementMunicipal Ordinance No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 - Providing for forest resources management
		"AN ORDINANCE FOR THE ESTABLISHMENT AND MANAGEMENT OF CLAVER MARINE SANCTUARIES"	Resources Office ENRO officer 3 Reforestation and Coastal Management Forest/Coastal Management • Forest Land Use Plan 2016-2026 • CLUP Vol 2 contains Zoning Ordinance • CLUP Vol 1 Section 2 Development Strategy		Programs and projectsPrograms and projectsPrograms and projectsPrograms and projects2LCCAP Fund2.1 Authorized use of Internal Revenue2.1 None, AIP 2.2 No2.2 Transcript interview with	program, water shed conservation and forest conservation"
REFERENCES Amalla, A. (2017, September). Int Malimono MPDO. (PRC, I City of Surigao. (2011). Comprehe Plan 2011-2020. City of Surigao. (2015). Ecologico	terview with City of Surigao. (2017, January Interviewer) Assessment Report on Jensive Land Use Auring. Climate Change Act of 2009 (R/ al Solid Waste by RA 10174)	n Tropical Depression RA 9729 as amended	DILG, DENR, (1998) Joint Memorandum Circular No. 98-01: Manual of Procedures for DENR-DILG-LGU Partnership on Devolved and Other Forest Management Functions. Retrieved from http://www.mgb.gov.ph/ Lim Ubac, M. (2012, May 4). UN lo	a the Disaster ndonesia: Legal and auds Philippines'	Municipality of Alegria. (2016). Comprehensive and Response System. PAGASA. (2018, January). PAGASA Climate Development Plan and Executive National Economic Development Authority - Projections. Retrieved from PAGASA Web Legislative Agenda 2016-2021. Regional Office Caraga. (2017). CARAGA site: https://www1.pagasa.dost.gov.ph Ran	del-norte&catid=60:latest-news<emid=19 ovincial Disaster Risk Reduction Management Office of Surigao del Norte, Local Climate Change Action Plan (LCCAP) 2016-2020. nada, P. (2015, December 4). PH named top 4th
Management Plan. City of Surigao. (2016). SCWMB F	Climate Change Commission, Pr		images/stories/DENR-DILG_JNT_MC_ climate change laws 'wo 98-01.pdf Retrieved from http://g	orld's best'. Inquirer.	Municipality of Alegria. (2016). Contingency Plan on Regional Development Plan 2017-2022. /index.php/93-cad1/472-climate Flooding. National Economic Development Authorityprojections	country affected by climate change in 2014. Rappler. Retrieved from https://

Surigao del Norte		Suriago Citu		of Forest Area	Allotment	DRRMO
Input Standards Actual/Evid (cite reference d		Surigao City Input Standards Actual/Evidence (cite reference document) Comments	Policies	DRRM CCA Plan MO No. 02 Series of 2011 Municipal Environmental and Sanitation Code MO No. 1 Series of 2011 Municipal Fisheries Ordinance Providing for Sustainable Integrated Management, Development and	2.2 Access to PSF EMR 1 Solid Waste Management Management Approved Solid Waste Management Diap by the National Program	nagement SWMP No. 2015-88
DRR STANDARDS 1Organized and functional Local Disaster Risk Reduction and Management Council1.1 Members 1.2 Four 4 CSO Representatives; 1 Private Sector Representative 	PDRRM Council	and functional Local Disaster Risk1.2 Four 4 CSO Representatives; 1 Private Sector Risk1.2 3 CSOs: Phil Red Cross, Kapisanan ng mga Brodkasters ng Pilipinas, Tricycle Drivers'Association; 2 Private: The Surigao Chamber of Commerce and Industry, Surigao Medical Societyand meetings or as Management Council1.3 Quarterly meetings or as necessary1.3 "As frequent as necessary"; as per KII meetings are held every quarter or during emergency or if typhoon is forecasted	EO No. 33A Series 2013 Reorganizing the CDRRM Council EO No. 9 Series 2017 Reorganizing the CDRRM Council	Image: Construction of the Lake Mainit Municipal Waters and Its Fishery and Aquatic Resources, Harmonizing and Integrating all Ordinances Pertinent thereto • Backyard farming project Image: Construction of the Lake Mainit Municipal Waters and Its Fishery and Aquatic Resources, Harmonizing and Integrating all Ordinances Pertinent thereto • Backyard farming project Image: Image: Construction of the Lake Mainit Municipal Waters and Its Fishery and Aquatic Resources, Harmonizing and Integrating all Ordinances Pertinent thereto • Backyard farming project Image: Construction of the Lake Mainit Municipal Waters and Its Fishery and Aquatic Resources, Harmonizing and Integrating all Ordinances Pertinent thereto • Backyard farming project Image: Image: Construction of the Lake Mainit Municipal Waters and Its Fishery and Aquatic Resources, Harmonizing and Integrating all Ordinances Pertinent thereto • Backyard farming project Image: Construction of the Lake Mainit Municipal Waters and Concerns; Section 1.9 Priority Issues and Concerns; Section 2.4 Mining and Quarying • CDP 2016-2021	Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) Han by the National Solid Waste Anagement (Elements Rule 7, sec 3 IRR) Han by the National CDP 2017: Solid Waste Management 4.1.1 Improvement of the municip Recovery Facility 4.1.2 Maint./Operation of garbage equipments	PROVINCIAL RESOLUTION NO. 121: RESOLUTION DECLARING VALID ORDINANCE NO. 2015-88 OF GIGAQUIT, SURIGAO DEL NORTE, ENTITLED, AN ORDINANCE ESTABLISHING A PROPER SEWAGE
2Establishment of Local Disaster Risk Reduction and Management2.1 Mandatory Office 2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and planning; and operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster2.1 Ordinance 05-2015 2.2 Engr. Marilyn Pono -OI Zosilito Torrecampo - Plan Gilberto Gonzales - Operational 2.3 Engineer 2.4 PDF2008-2017/ LCCAI 2018/PDIP 2017-2022/ Cor Tropical Cyclone / Conting Landslide	C PDRRM Officer ning ions 2 2016-2020/AIP thingency Plan on Pency Plan on C PDRRM Officer ning ions 2 2016-2020/AIP thingency Plan for ency Plan on C 2016-2020/AIP thingency Plan for Provincial Development and Physical Framework Plan - Focused on Preparedness C 2015 - An Ordinance Creating the Provincial Risk Reduction and Management Office of the Province of Surigao del Norte thereof and for other purposes Executive Order No.	of Local Disaster Risk Reduction andOffice2.2 EO No. 11 Series 2013 CDRRMO Atty. Manuel G. Coro but was replaced by Engr. Elmer Tecson since January 2017; There are already 2 permanent positions open under the CDRRM Office but as of September 2017 it has not been filled up yet In the meantime, there are 4 CDRRM Office operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management2.2 EO No. 11 Series 2013 CDRRMO Atty. Manuel G. Coro but was replaced by Engr. Elmer Tecson since January 2017; There are already 2 permanent positions open under the CDRRM Office but as of September 2017 it has not been filled up yet In the meantime, there are 4 CDRRM Office 2.3 Concurrent City Environment Officer 2.4 DRRM Plan (2015?): Chapter 1, As per interview with Engr. Tecson the city conducted a Hazard Vulnerability CapacityDisater Risk ManagementAssessment on flooding	CO No. 318 Series 2011 An Ordinance Creating the Disaster Risk Reduction and Management Office, Providing Funds Therefor, And For Other Purposes EO No. 9 Series 2013 Reorganizing the CDRRM Council DRRM Plan (2015?)	Malimono Input Standards Actual/Evidence (cite reference document) Comments Policies DRR STANDARDS	2 Solid Waste Management Local Solid Waste Management Board No information available	TREATMENT AND SEPTAGE MANAGEMENT SYSTEM IN THE MUNICIPALITY OF GIGAQUIT, AND PRESCRIBING PENALTIES THEREOF • Throwing of Waste Ordinance No. 2016-100
Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System	and climate16-001 - Creation ofproofing.PDRRMO Sub-OfficeAIP - perin Siargao IslandthematicExecutive Order No.PDIP - per16-016 - Creation ofthematicthe ProvincialRESOLUTION NO.Evaluation Team for091 -the Seal of DisasterRESOLUTIONPreparedness foreAPPROVING ANDBarangays 2016.ADOPTING THEPROVINCIAL2.4 Resolution No.DEVELOPMENT069, s.2016 -INVESTMENTAuthorizing the16-001 - Creation of	 Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System Allocation of LDRRM Fund 3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Since Content and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System 		1Organized and functional Local Disaster Risk Reduction and management Council1.1 Members 1.2 Four 4 CSO Representatives; 1 Private Sector Representative 1.3 Quarterly meetings or as necessary1.1 EO No. 12-2016 - reorganizing the MDDRMC 1.2 3 CSOs: Parish Pastoral Council, Motorist Drivers Association, CAFFREMUCO; 1 Private Sector: Private Sector Local Fisherfolks Association 1.3 Quarterly meeting1.1 EO No. 12 Series of 20162Establishment of Local2.1 Mandatory Office2.2 Resolution No.36-2014 Resolution No. 36 -2014 - resolution creating2.2 "The municipality2.2 Resolution NO.36-2014	BoardBoard3ENRO OfficeAppointment or designation of ENRO officerWilliam R. Enario Municipal Enviro Management Office - Organization Structure, Socio Economic Profile O LCCAP4Reforestation and Coastal ManagementForest Management ProjectsAIP 2017 Marine Ecosystem Management • Operation and Maintenance of M Protected Areas (MPAs) • Support to Environmental Initiativ HIPADA Flood and Erosion Control	al CDP 2017,LCCAP's PPAs are mostly infra projectsCoastal Resource Mgt Ordinance No. 2016-95 Complaint Siltation
	PLAN (PDIP) CY 2017 - 2022 OF THE PROVINCEProvincial Governor to utilize portion of 2015 Trust fund to procure emergency GSM equipment and • Creation of • Creation of • Creation of • Creation of • Creation of pre-disaster risk assessment team (accomplishment report)Provincial response 2.4 Resolution No. 122, s.2016 - Adopting all contingency plans, protocols and policies of the of the province of Surigao del Norte 2.4 Executive OrderDisaster Risk 	Response Fund; 70% - Disaster Preparedness (JMC 2013-1)4.1 "The City Government has yearly CDRRMF of thirty (30) million pesos with twelve (12) million pesos with twelve (12) million pesos unused fund from the previous year, resulting to a total existing fund of forty two (42) million pesos." CDRRM Plan (2015?) LDRRMF Investment Plan 2017 4.2 City Development Council Resolution No. 15-2011 A Resolution Adopting and Favorably Endorsing to the Sangguniang Panlungsod, the City Comprehensive Land Use Plan 2011-2020, Integrating DRR and CCCA; ELA 2016-2019: City development framework under the key development area of Environment sites integration of DRP and		Disaster Risk Reduction and2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and planning; and operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System2.2 Headed by a LA Malimono Standard Operating Procedures for Early Warning and Response System during Disasterbeing a fifth - income class is only capable at present of creating the position of Local DRRM Officer II and Local DRRM Assistant (1) Local DRRM Officer II and (1) Local DRRM Assistant only	 Rehab. of Poblacion Drainage Cat Construction of 85 ln.m. Slope Pr (lpil) Construction of 220 ln.m. Drainage (San Isidro) Construction of 50 ln.m. Flood Cot Antonio) CDP: Operation/Maint. of marine protect Community Reforestation Information Education Campaign Ecological Solid Waste Managemed Program 	DetectionBelow Clagiba Res. 2014-06ge CanalDENR Sustainable Coral Reef Ecosystemntrol (SanProject Res. 2015-09 DOST Mangrove Project 1 million Res. 2015-49 Ecological Waster Mgt Code Ordinance No. 2017-110ent2017-110 Mangrove Project Res. 2014-36 Marine Protected Area Plan Res 2016-92 Municipal Envi Code Ordinance No. 2017-107
	being actively assisting in the implementation of the EarlyBarangays and FormulateWarning System Protocol inContingency Plans for Each HazardBarangay Oslao, San FranciscoStorm Surge and Man-Made CalamitiesSan Francisco (Anao-aon) and Barangay San Carlos, Dapa, Norte.2.4 Executive Order Creating the Pre-Disaster Risk Assessment (PDRA) and the Rapid Damage AssessmentThe Plaque and Certificate of Recognition was given by the PhilippineTeams of the Province of Surigao	Environment sites integration of DRR and CCA in LGU plans, policies, and programs 4.3 Surigao City Zoning Ordinance5Capacity Building and Public Awareness Programs5.1 Orientation/ training on DRRM 5.2 Public Awareness Programs5.1 CDDRM Plan (2015?) under Strategies and Activities: Synchronized General Assembly by each 54 City Barangays on Information Education Campaign and Education and Orientation on Disaster Risk Reduction Plans and Management As per interview with Engr. Tecson the City will be conducting barangay trainings on DRR on 2018. 5.2 As per interview with Engr. Tecson, the city facilitates implementation of fire drills and earthquake drills in schools, malls, and hospitals6Emergency6.1 DRRM Oriented Center6.1 No data C1 No data		3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)3.1 AIP 2017 Total CCA/CCM tagged budget: 12,350,181.80Image: Comparison of tagged budget: 12,350,181.804Local Disaster Reduction Management Plan4.1 Annual Budget 4.2 Integrated in Comprehensive Development Plan and Comprehensive Land Use Plan4.1 2017 MDRRM Plan - 5% MDDRM Fund - 3,457,870.00 - 70% Mitigation/Preparedness - 2,420,509.00 - 30% QRF - 1,037,361.004.2 no official document re adoption of CDP 2016-20215Capacity5.1 Orientation/5.1 Information Campaign every Assembly4.2 no adoption comparison of Malimono		No Mining Policy- Clarifying areas covered Res. 2015-73 Purchase Material Recovery Facility for Waste Mgt Lot Res. 2014-30 Res. 2017-11 Declaration of WaterShed Areas Res. 2017-42 Extraction of Sand and Gravel Watershed Areas Res. 2012-27 Throwing of Waste Ordinance No. 2016-100 Sewerage Ordinance
	Institute of AUTHORIZING THE Volcanology and Seismology GOVERNOR (PHIVOLCS) and HONORABLE SOL F. the DYNASLOPE Project Director at Cebu PROVINCIAL Waterfront Hotel and Casino, Cebu City on November 28, 2016. November 28, 2016. HONORABLE SOL F. MATUGAS TO UTILIZE THE 2015 PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT FUNDS FOR PROCUREMENT OF TACTICAL RADIO MASS COMMUNICATION,	Change Focal person to LCCAP Lead Office	EO No. 26 Reorganization of	SCapacity Building and Public Awareness ProgramsD.1 Information Campaignevery Assembly (twice a year)MDDRM Plan - Capacity building (training and simulation exercises)MDDRM Plan - Capacity building (training and simulation exercises)MDDRM Plan - DRR-CCA Information Awareness Program5.2 MDDRM Plan - DRR-CCA Information Awareness Program6Emergency Response6.1 DRRM Operations Center 6.2 Pre-emptive evacuation6.1 EO NO. 14 series of 2015 - EO designating the Women's Training and Development Annex Building as 24/7 Temporary Emergency Operation Center (EOC) during the Disasters / Calamities6.1 EO NO. 14 series of 2015 6.2 Municipal Ordinance No. 6	Bacuag	No. 2015-88
	BARANGAY DISASTER DATA PROFILING, AND OPERATIONALIZATIO N OF PDRRM OFFICE AMOUNTING TO THREE MILLION EIGHT HUNDRED SEVENTY-FIVE THOUSAND FOUR HUNDRED SIXTY PESOS & 77/100	Action Plan or Integrated in other Plans formulate and implement 1.2 Regular updating 1.3 Climate Change programs and projects 1.2 DRRM Plan not updated 1.3 Integrated in AIP 2017 2 LCCAP Fund 2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF 2.1 AIP 2017 2.2 DRRM Officers are vaguely aware of PSF DRRM Officer Transcript interview with DRRM Officer	LCCAP Core Team	Image: CCA 1 Local Climate 1.1 Appointment of 1.1 EO No.24-2016 - reorganizing the LCCAP 1.1 EO No.24-2016	InputStandardsActual/Evidence (cite reference docume)DRR STANDARDS1Organized and functional Local Disaster Risk Reduction and Management Council1.1 Members 1.2 Four 4 CSO Representatives; 1 Private Sector Representative 1.3 Quarterly meetings or as necessary1.1 Municipal Ordinance No. 01 Sec 2013 1.2 With 4 CSO representatives, PF Orchids Women Assoc., BEMCO ar Citizen's Org. 1.3 Once every 3 months	ries of No actual proof 1. Executive Order N. of MDRRMO 13, Series of 2016 – IC, Bacuag meetings Reorganizing the
3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)3.1 AIP 2018 -158,460,0004Local Disaster Risk Reduction Management Plan4.1 Annual Budget 4.1 Annual Budget (A.2 Integrated in Comprehensive Development Plan and Comprehensive4.1 DDRMP 2016-2020/ All -158,460,000 4.2 Provincial Development Framework Plan – Focused and climate proofing.	t and Physical mainstreaming. S.2016 - Adopting the Disaster Risk Reduction and Management Plan of	Image: Provide the implement of the provided solid waste1.1 Approved Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) 1.2 Local Solid Waste Management Board1.1 Ecological Solid Waste Management facility, a program of the Government of Sweden in 2000 • In the pipeline is the "Oplan Kuha Cellophane" program as a waste segregation initiative that will be implemented in all barangays of the city however Engr. Tecson still needs to draft the ordinance		 Change Action Plan or Integrated in other Plans 2 LCCAP Fund 2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF Core team and TWG 1.3 LCCAP 2014-2021 Core team and TWG 1.3 LCCAP 2014-2021 Security of the security of the secu	2Establishment of Local Disaster Risk Reduction and Management Office2.1Mandatory Office 2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and planning; and operations and2.1 Municipal Ordinance No. 01 Se 2013 2.2 Romelo Panilag, MDRRMO Des with 3 Staff 2.3 Resident, CSC, DRM Experience 2.4 With Contingencies for: a. Flood 2012-2016 b. CLUP 2014-2023 (Resolution N	Disaster Risk Reduction and Management Ordinance of Bacuag;ries of ignateThe staff for MDRRMO has not been identified during the interview, job order positions only.2.1 Executive Order N. 13, Series of 2016 - Reorganizing the Local Risk Reduction and Management Council; updating 2.2 Municipal Ordinance No. 01
5 Capacity Building and 5.10rientation/traini ng on DRRM AIP 2018, PDRRMC 2nd Me PDDRMO 1st and 2nd qtr in the processing of the procesing of the processing of the processing of the proces	Network D22the Province of Surigao del Norte CY 2016-2020 4.2 Resolution the DRR-CCA enhance Provincial Road Network Development Plan (PRNDP) 2017-2022 of the Province Surigao del Nortereting June 1, 2017, report 2017Lined up activities for 2018Resolution No. 117 s.2016 - Enjoining all	2Environment and Natural Resources OfficeAppointment or designation of ENRO officerThe ENR Officer is the designated DRRM Officer3Reforestation and Coastal ManagementForest/Coastal Management Projects• Comprehensive Land Use Plan 2011-2020 • Executive Legislative Agenda under Environmental Management		Image: Solid Waste Management 1.1 Approved Solid Waste Management program of Malimono Solid Waste Management program of Malimono Resolution No. 56-A-2015 - resolution adopting the 2015-2024 Municipal Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) 1.2 Local Solid Waste Management plan and favorably endorsing the same to the NSWMC Resolution no. 636-2016 - resolution on approving the 10 year solid Waste Management Board Article IV Sec. 4 - Municipal Ordinance No. 2008-057 - Resolution No. 56-A-2015 - resolution adopting the 2015-2024 Municipal solid Waste Management Board Municipal Ordinance No. 2008-057 - Resolution No. 56-A-2015 - Resolution No. 56-A-2015 - resolution adopting the 2015-2024 Municipal solid Waste Management Board or tis composition and responsibilities Municipal Ordinance No. 2008-057 - Resolution No. 56-A-2015 - Resolution No. 636-2016 - resolution adopting the same to the NSWMC Resolution no. 636-2016 - resolution on approving the 10 year solid Waste Management Board Numicipal Ordinance No. 2008-057 - Resolution no. 636-2016 - resolution reguired resolution no. 636-2016 - resolution reguired resolution no. 636-2016 - resolution reguired resolution required	warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System	The FloodSeries of 2013 –t copyContingency Plan needs revisiting and updating.Disaster Risk Reduction and Management Ordinance of Bacuag;Provided2.3 SB Resolution No.reference for copy only, not certain if the adopted version.14 Series of 2013 contingency Plan. Contingency Plan. Series of 2013CLUP is draft copy only, not certain if the adopting the flood copted version.2.4 SB Resolution No.Same is the final adopted version.56 Series of 2013 adopting the CCA-CLUP and Zoning Ordinance.Cannot give full review onOrdinance.
Public 5.3 Public Awareness Awareness Programs	public and private Elementary, Secondary and Tertiary Institutions in this Province to integrate in their respective curricula-Disaster Risk Reduction and Management System and Climate Change Adaptation 2.4 Executive Order No. 16-043 - Institutionalizing	and1.2 Four 4 CSO1.2 5 CSOs: Phil Red Cross, San PedrofunctionalRepresentatives; 1Irrigators Association Incorporated, Alegria	Policies EO No. 033 Series 2017 Reorganizing the	Image: Construct of the Municipal Version1.2 Ordinance No. 2008-057Image: Construct of the Municipal Version1.2 Ordinance No. 2008-057Image: Construct of the Municipal VersionVersionImage: Construct of the Municipal Version<	3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)3.1 AIP 2017 - P3,038,915.434Local Disaster4.1 Annual Budget4.1 Flood 2012-2016	review on disaster SOP, file provided is an incomplete draft.SP Resolution No. 2017 Series of 2014 approving the Municipal CLUPQRF - Not specified DP - Not specifiedQRF - Not specified4.2 no official4.1 SB Resolution No.
	Mandatory Basic Training Program on Disaster in All Barangays and Formulate Contingency Plans for Each Hazard (Landslide, Tsunami, Storm Surge and Man-Made Calamities)	Local Disaster Risk Reduction and Management CouncilPrivate Sector Representative 1.3 Quarterly meetings or as necessarySports Club, Masipag United Farmers Association for Sustainable Agriculture of Alegria, Ombong Farmers Development Association; 1 Private: Upsilon Phi Sigma 1.3 "The council shall meet least once every three months." "The chairperson may call for a special meeting as he may deem necessary."2Establishment of Local2.1 Mandatory Office2.1 CO No. 003 Series 2015 2.2 Headed by Engr. Roco Moca	Municipal DRRM Council CO No. 318 Series 2015 An Ordinance Creating the Local Disaster Risk	adof the MunicipalityMunicipality4Reforestation and Coastal Management• Municipal Ordinance No. 4-2011 - Coastal Resource Management Ordinance of the Municipality of Malimono • Integrated Coastal Resource Management Plan • Forest Land Use Plan 2015-2019 • Malimono Fisheries Code of 2017Municipal Ordinance No. 4-2011 Resolution No. 16, series of 2015 Municipal Ordinance No. 06-2017	Risk Reduction Management Plan4.2 Integrated in Comprehensive Development Plan and Comprehensive Land Use Plan4.2 CLUP 2014-2023 (Resolution N Series of 2014)5Capacity Building and Public5.1 Orientation/traini ng on DRRM 5.3 Public5.1 AIP 2017 Flood preparedness trainings Disaster SOP (specific trainings)	b. 56.document re adoption of CDP 2016-202114 Series of 2013 adopting the Flood Contingency Plan. 4.2 SB Resolution No. 56 Series of 2013 adopting the CCA-CLUP and Zoning Ordinance.No details of actual trainings and public5.1 SB Resolution No. 14 Series of 2013 adopting the Flood
6 Emergency Response 6.1DRRM Operations Center 6.2 Pre-emptive evacuation 6.1 6 None - Interview Trans 6 Image: Complex state of the state of t	cript PDDRRMO Cript PDDRRMO Executive Order No. 16-044 - Requiring LGUs to Identify Private/Public Buildings Including Residences, as Evacuation Centers and Providing Trainings and Government Support in Times of Calamities.	and Management Office3 staff: administration and training; research and planning; and operations and warning. 2.3 Qualification of LDDRM Officer: Civil Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingencybeing updated Contingency Plan on Flooding 2016-2021 MO No. 2 Series 2013 Force Evacuation Presence of early warning system in all 12 barangays (DRRM and CCA Plan Chapter 1)and Presence (JMC 2014-1) 2.4 Risk Assessment and Contingencybeing updated Contingency Plan on Flooding 2016-2021 MO No. 2 Series 2013 Force Evacuation Presence of early warning system in all 12 barangays (DRRM and CCA Plan Chapter 1)	Disaster Risk Reduction Management Division Under the Office of the Municipal Mayor and the Positions Under Said Office, Determining the Powers, Duties and Functions Thereof	Gigaquit Input Standards Actual/Evidence (cite reference document) Comments Policies DRR STANDARDS 1.1 Members 1.1 Yes. According to DRRM Officer refer to 1.1 Inactive No Ordinance	Awareness Awareness depending on response requirement) Programs 5.2 AIP 2017	awareness conducted. Only general statements of trainings and workshops to be conducted.
1Local Climate Change Action Plan or Integrated in other Plans1.1 Appointment of Focal person to formulate and implement 1.2 Regular updating 1.3 Climate Change programs and projects1.1 Yes - PDRRMO Engr. M 1.2 Yes - Recently updated 1.3 Yes - LCCAP2LCCAP Fund2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF2.1 AIP CY 2018 2.2 No		Planning, Local Risk Map, Multi-Hazard Early Warning SystemPlanning, Local Risk Map, Multi-Hazard Early Warning SystemAllocation3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)3.1 MDRRMF: 3,600,000.00 as per interview with MDRRM OfficerAlP is not available but there is LDIP in the CDP		and1.2 Four 4 CSOInterview TranscriptDRRM CouncilfunctionalRepresentatives; 11.2 No. Listed Organization under Councilaccording to CDPLocal DisasterPrivate SectorStructure2017 Chapter VIRebuction1.3 Quarterly1.3 Yes. According to DRRM Officer.Section V: DRRMandmeetings or asnecessaryNo copy ofOrdinance1.2 See copy ofOrdinanceCouncil1.3 InactiveDRRM CouncilBarton CouncilSection V: DRRMAndSection V: DRRMAnagementnecessaryCouncilSectorCouncilSectorBarton CouncilSectorAnagementNecessaryCouncilSectorCouncilSectorCouncilSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorSectorS	6 Emergency Response 6.1DRRM Operations Center 6.2 Pre-emptive evacuation 6.1 MDRRMO Office 6.2 Disaster SOP and Flood Contine CCA 1 Local Climate 1.1 Appointment of 1.1 Yes – under the MPDC, no specific	the training/workshop on disaster preparedness and management.gency PlanNo complete copy of Disaster SOP61. LDIP 2017-2019ifics1.1 Source is1.1 PRC Interview of
EMR 1 Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR) 10 Year SWM Plan - Resolution 10 Year SWM Plan - Resolution (Sec 3 IRR)	tion 939 - NSWMC Subject to submission of additional requirements (due September) No copy provided Executive Order No. 16-019- An Executive Order Creating a Provincial Solid Waste Management Technical Working Group (PSWM-TWG), Defining Its Roles, Functions, and Providing Funds Therefore	4Local Disaster Risk Reduction Management Plan4.1 Annual Budget 4.2 Integrated in Comprehensive Development Plan and Comprehensive Land Use Plan4.1 Priority programs and projects Table 8 - Environment Protective, Climate Adaptive & Disaster Resilient LGUs of CLUP total budget P59.9 million4.2Cumprehensive Development Plan and Comprehensive Land Use Plan4.2 CLUP 2015-2025 aimed to "somehow serve as guide in some municipalities of the country in mainstreaming DRR+CCA and bio-diversity initiatives to their respective CLUPs and Zoning Ordinance and above all, this plan will direct our people and local officials to be more resilient in the adverse effect of disasters and the ever-changing climatic condition that we are experiencing at present which resulted to the increasing number of strong typhoons, frequent floorling landslides and earthquakes that		2Establishment of Local Disaster Risk Reduction and2.1 Mandatory Office 2.2 Headed by a LDRRM Officer with 3 staff: administration and training; research and planning; and operations and Warning. 2.3 Qualification of LDDRM Officer: Civil2.1 Ordinance 2017-106, EO 2017-07 2.2 Nelma Bausing-DRRM Officer 2.2 Nelma Bausing-DRRM Officer 2.2 Nelma Bausing-DRRM Officer 2.3 Plantilla Nutrition Officer 2.4 Climate and Disaster Risk Assessment under LCCAP 2017-2022 and Disaster Risk Assessment Report Hazard Map under CLUP 2011-2020 No contingency plan Purchase of Early Warning Device2.1 Creating DDRM Division under office of the Mayor 2.4 CluP 2011-2020: mainstreams DRR and CCA No early warning system CDP Chapter VIOrdinance 2017-106 Creating DDRM Division under office of the Mayor EO 2017-07: 2.4 Climate and Disaster Risk Assessment Report Hazard Map under CLUP 2011-2020 No contingency plan Purchase of Early Warning Device2.1 Creating DDRM Division Under CLUP 2011-2020 System CDP Chapter VI Chapter VIOrdinance 2017-106 Creating DDRM Division under office of the Mayor EO 2017-07: 2.4 CluP 2011-2020: mainstreams DRR and CCA No early warning system CDP Chapter VI	 Change Action Plan or Integrated in other Plans 2 LCCAP Fund 3 Climate Change of Internal Revenue Allotment 2.2 Access to PSF 2 Cannot verify, cannot access the provided. 2 Cannot verify, cannot access the provided. 2 Cannot verify, cannot access the provided. 	e CCA file MDRRMO MRDDMO Panilag e CCA file There is a resolution adopting a CCA enhanced CLUP and Zoning Ordinance CCA-CLUP and Zoning ordinance.
2Solid Waste ManagementLocal Solid Waste Management BoardYes Resolution 939 - NSW3ENRO OfficeAppointment or designation of ENRO officerAtty. Aimee Faith M. Egay - designation of ENRO officer	Checklist attached to the Resolution – Compliance to Institutional Arrangement	Image: Second		Defence/Disaster Risk Management Experience (JMC 2014-1) 2.4 Risk Assessment and Contingency Planning, Local Risk Map, Multi-Hazard Early Warning System	1Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7, sec 3 IRR)There is an Environmental Code w subject to review every 2 years by Municipality and Province2Solid WasteLocal Solid Waste	ith SWMP Municipal Ordinance No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 Municipal Ordinance No. 003 Series of
4Reforestation and Coastal ManagementForest ManagementConduct Tree Planting and Activities draft - PDIP - CY LCCAP • Scientific- based mangrov appropriate sites together • Corals, mangrove and se transplantation to identifie • Development of natural w 	vereforestation at with DENRforest management plans. (activity only for 2018, no specific plan for forestProvincial Technical Working Group (PTWG) for the Updating of the Provincial Framework Plan for Coastal Resourceand structuralmanagement initiatives)Plan for Coastal Resourceasements with clines• Table 17: ation InitiativesIts Implementation. • Executive Order No. 16-023 - Prohibiting Large Scaleand Boardfor Flooding Due to Increased PrecipitationExploration of Minerals and	Image: Construction of the second		3Allocation of LDRRM Fund3.1 5% allocation from Internal Revenue Allotment (IRA): 30% - Quick Response Fund; 70% - Disaster Preparedness (JMC 2013-1)3.1 AIP 2017 -4,084,094.20 AIP 2018 -3,364,094QRF - 814228.26 DP - 3,269,866 DRRMF: 4,214,094.20 (2017)Weile Allocation DRRMF: 4,214,094.20 (2017)Resolution No. 2014- 108 - Adoption of CLUP 2011-2020 Res. 2017-28 Adopting LDDRM Plan and Comprehensive Land Use Plan4.1 AIP 2018 -3,364,094 4.2 Yes, based on resolution.4.2 No copy of DRRM Plan. However, CLUP 2011-2020 attempts to mainstream DRR and CCA, in compliance with NEDA andResolution No. 2014- 108 - Adoption of CLUP 2011-2020 Res. 2017-28 Adopting LDDRM Plan 2016-2020Resolution No. 2014- 108 - Adoption of CLUP 2011-2020 Res. 2017-28 Adopting LDDRM Plan 2016-2020	Management Management Board Management Management Board Image: State of the state of	2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 - Chaired by the Municipal Mayoration of lid notThe CDP 2012-2016 however mentioned that the municipality "will" create its MENRO between 2011 and 2016. On the other hand, the Contingency PlanStatus and a status
Management (CREM) for S Communities in HIPADA (f counterpart - AIP CY 2018 Implement SWM program Enhancement of the 10-ye Waste Management plan A Implement NRM program Formulation of Coastal Res	unded by PSF) -Mitigation/Adapt ation InitiativesCompanies in the Province of Surigaoand activities; 2.for Sea Level Rise 2015-2020.del Nortear Provincial Solid2015-2020.• See LIST OFJP CY 2018• Table19:PROTECTED AREAMitigation/Adapt and activities; 2.Mitigation/Adapt ation Initiatives for TyphoonsMANAGEMENTand activities; 2.ation Initiatives for TyphoonsBOARD (PAMB)nulation of Marine vork Managementwith strong winds 2015-2020.SIARGAO ISLANDf Provincial : Plan AIP CYMitigation/Adapt ation Initiatives for Storm SurgePROTECTEDfor Storm Surge(Provincial Annual	2LCCAP Fund2.1 Authorized use of Internal Revenue Allotment 2.2 Access to PSF2.1 2.2 DRRM Officers are vaguely aware of PSFEMR1Solid Waste Management Plan by the National Solid Waste Management Commission (Elements Rule 7,1.1 Draft SWMP. DRRM CCA Plan mentioned that implementation of Ecological Solid Waste Management Program as one of their capacities (Chapter 1) MO No. 02 Series of 2011 Municipal Environmental and Sanitation Code 1.2 EO No. 23 2016		Image: NEDA and HLURBNEDA and HLURB5Capacity Building and Public Anwareness5.1 Orientation/traini ng on DRRM 5.2 Yes, AIP 2017 and 2018 5.2 Yes, AIP 2017 and 2018Lined up activities for 2018 under AIP6Emergency Response6.1 DRRM Operations Center 6.2 Pre-emptive evacuation6.1 Yes, see pictures 6.2 Evacuation6.2 No Pre-evacuation ordinanceCCA	4Reforestation and Coastal ManagementForest Management ProjectsNo evidence of Forest Management Projects	for Flood (program) mentioned the establishment of MENRO under its MDRR plan between Oct. – Dec. 2013Municipal Ordinance No. 003 Series of 2009 - BACUAG, SURIGAO DEL NORTE ENVIRONMENT CODE OF 2009 – Providing
	2015-2020. Accomplishment report 2016) • RESOLUTION NO. 100 RESOLUTION DECLARING VALID THE MUNICIPAL ORDINANCE NO. 2015, - 06, ENTITLED "AN ORDINANCE FOR THE ESTABLISHMENT AND MANAGEMENT OF CLAVER MARINE SANCTUARIES"	 a Reforestation and Coastal Management Projects b Reforestation and Coastal Management Projects b Reforestation and Coastal Management Projects c LUP Vol 1 Section 2 Development Strategy 		1Local Climate Change Action Plan or Integrated in other Plans1.1 Appointment of Focal person to formulate and implement 1.2 Regular updating 1.3 Climate Change programs and projects1.1 Yes -Executive Order No. 01, Series of 2017 creating the Local Climate Change Adaptation Plan Team 1.2 Yes according to LDRRMO- Recently updated 2016-2020 LCCAP 1.3 Yes - LCCAPLCCAP does not provide any qualitative analysis, most are figures and tables.Executive Order No. 01, Series of 2017 creating the Local Climate Change Adaptation Plan Team 1.3 Yes - LCCAPLCCAP does not provide any qualitative analysis, most are figures and tables.Executive Order No. 01, Series of 2017 creating the Local Climate Change Adaptation Plan Team 1.3 Yes - LCCAP2LCCAP Fund2.1 Authorized use of Internal Revenue2.1 None, AIP 2.2 No2.2 Transcript 		cutting of trees, total log ban and kaingin farming, advocating on tree planting, reforestation through kakahuyan program, water shed conservation and forest conservation"
REFERENCES Amalla, A. (2017, September). Interview with	City of Suriago (2017 January 21) Final Dama	DILG, DENR, (1998) Joint Memorandum Circular No. Lassa, J. (Forthcoming) Tracking Cli	mate Change	Municipality of Alegria. (2015). Comprehensive Land Use Municipality of Malimono. (n.d.). Standard	_resources/DILG-Resources-2012130 de	l-norte&catid=60:latest-news&Itemid=19
Amalla, A. (2017, September). Interview with Malimono MPDO. (PRC, Interviewer) City of Surigao. (2011). Comprehensive Land Use Plan 2011-2020. City of Surigao. (2015). Ecological Solid Waste Management Plan. City of Surigao. (2016). SCWMB Resolution	City of Surigao. (2017, January 21). Final Damage Assessment Report on Tropical Depression Auring. Climate Change Act of 2009 (RA 9729 as amended by RA 10174) Climate Change Commission, Proponent's Handbook: A Guide on How to Access the People's Survival Fund, Petrieved from	98-01: Manual of Procedures for Adaptation Vision inside the DENR-DILG-LGU Partnership on Devolved and Other Forest Management Functions. Network Approaches Retrieved from http://www.mgb.gov.ph/ Lim Ubac, M. (2012, May 4). UN laud images/stories/DENR-DILG_JNT_MC_ climate change laws 'world 98-01.pdf Retrieved from http://glob	e Disaster nesia: Legal and s Philippines' 's best'. Inquirer.	Municipality of Alegria. (2015). Comprehensive Land Use Municipality of Malimono. (n.d.). Standard Plan 2015-2025. Operating Procedures for Early Warning Municipality of Alegria. (2016). Comprehensive and Response System. Development Plan and Executive National Economic Development Authority - Legislative Agenda 2016-2021. Regional Office Caraga. (2017). CARAGA Municipality of Alegria. (2016). Contingency Plan on Regional Development Plan 2017-2022. Flooding. National Economic Development Authority - Municipality of Alegria. (2016). Forest L and Use Regional Office Caraga. (2017). CARAGA	-2ef223f591.pdfProvincialPAGASA. (2018, January). PAGASA ClimateOfProjections. Retrieved from PAGASA WebChsite: https://www1.pagasa.dost.gov.phRanada, P./index.php/93-cad1/472-climateco	I-norte&catid=60:latest-news&Itemid=19 Disaster Risk Reduction Management fice of Surigao del Norte, Local Climate ange Action Plan (LCCAP) 2016-2020. (2015, December 4). PH named top 4th untry affected by climate change in 14. Rappler. Retrieved from https://

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