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What will you do if you have a volcano in your backyard?









When you are amidst these challenges!!





Flash Floods



Strong winds toppled electric wires & trees



Coastal inundation due to storm surge



Bicol Region is usually affected by tropical storms and cyclones (3 TCs in a year), thunderstorms, monsoon rains (SW & NE) and ITCZ passing through the region



PHILIPPINE DESTRUCTIVE EARTHQUAKES

Date: July 7, 1954 Epicenter: Bacon, Sorsogon Magnitude: 6.7 Casualty: 13 Injured: 101





"Teaching is more than imparting knowledge, it is inspiring change."

- William Arthur Ward















The Imperative for Action



SUCs are strategically located to play a key role in regional development.



What can Academic Institutions do?









We are not DA,

DSWD,

DENR, NGOs and

other

Development

Organizations ...







"Education is the most powerful weapon which you can use to change the world" – Nelson Mandela















"Educating to Build Resilient Communities" The Framework

scholarship engagement for the communed and subscholarship engagement.



INSTRUCTION

















MAPA – Major in Health Emergency and Disaster Risk Reduction and Management

BU Graduate School in response to the felt need of the Province of Albay in particular and the Bicol Region in general, embarked on formal graduate education program focusing on the very real problem of health emergencies.

The university offered a Masters in Public Administration (MAPA) course, major in Health Emergency & Disaster Management in partnership with the Department of Health, at DOH Manila to 36 scholars who are mostly medical doctors, nurses, and HEMS coordinators in different public and private hospitals and LGUs in Metro Manila and nearby provinces.

















BU College of Medicine





The Bicol University College of Medicine aims to provide service delivery clinic in collaboration with the Bicol Regional Training and Teaching Hospital.

At the same time, the college will house a disaster response team. BUCM also initiated development for response mechanism disaster in order for families to be resilient in times of disasters.

The college will also advocate IEC materials for health programs such as health brochures, tele-medicine, tele-health and community & college website to name a few.

















Microfinance Competency Program



The university's curriculum for the BSBA followed the nomenclature of the CHED Memoradum Order(CMO) No. 39 Series of 2006/ Policies, Standards and Guidelines for Bachelor of Science in Business Administration.

The four year degree program includes a three-year diploma course in microfinance and a two-year certificate in microfinance.

The program, through the partnership of different national organizations which includes the Benigno S. Aquino Foundation and local banks, will aim to reduce poverty in the region through the graduates of the BSBA program.















ching Module on Mainstreaming DRR into the NSTP Curriculum



- Developed by BU Extension under WFP DPR Phase2 for NSTP
- Intends to guide the instructors and implementers on how they can best impart vital information about disaster and their effects on the lives of the people
- How the students can acquire necessary skills on disaster preparedness and risk reduction





RESEARCH



























ngthening the Capacities for Climate Risk Management d Disaster Preparedness in Selected Provinces of the Philippines (Bicol Region)



This research venture is a joint project of Bicol University, Central Bicol State University of Agriculture, Department of Agriculture, PAGASA and FAO.

The research identified good agricultural practices, options for upland and lowland areas against floods/flashfloods, typhoon and saline intrusion strong wind, continuous rain and drought and fisheries and aquaculture good practices options against typhoon, storm surge and fish kills.

Some of the key findings include better understanding of climate/weather forecast & timely delivery of advisories to LGUs & farmers enhances local disaster preparedness and reduces livelihood losses and awareness of farming/fishing communities to their current vulnerabilities and future climate risks are key to effectively initiate adaptation/DRR measure.

















essment Of The Carbon Sequestration Potentials Of erent Agroforestry Farm Models Climate Change Mitigation Adaptation

orestry is a land use management systems integrates wood trees, agricultural crops, ock and aquatic resources in some piece of for economic productivity and environmental inability.

agroforestry have been integrated in some d development programs in Bicol, validating otentials as a mitigation and adaptation to te change impacts has never been explored cularly in the provinces of Albay and Sorsogon.

general objective of the project is to sment of Carbon Stocking, Sequestration and



conut-based S and T Interventions for the Rehabilitation of Selected Calamity-Stricken Areas in Albay

w coconut productivity in Bicol can be rattributed to frequent typhoons that visit rea, sources and quality of planting ials, and occurrence of natural disasters e impact of the changing climate

rtium-led initiative (PCA-ARC, DENR-BU, CBSUA)

rogram aimed to showcase the science ackage of technologies in rehabilitating conut sector in Albay from damages that brought about by the series of natural ties



















viding S and T Solutions Typhoon Devastated Cocobased Farms"

vcased STBF for rehabilitation of oon devastated cocobased farms at nd barangay Malabnig,Guinobatan, y

i initial 1 MS at 3 hectares to 35 oters at 30 hectares in Dona cedes, Lomacao and 24 adopters at ectares in Paulog , Basag of Ligao

ed a total of 65 farmers on Contour ing with MS as extension agent

ed a total of 35 farmers on basic ICT

ed a total of 30 farmers on Protective Jre Technology, Coconut cropping and Integrated farming



tegrated Management Systems in Rice Production Areas of Albay Under Changing Rainfall Pattern

R funded project

rs commonly practice the use of broad spectrum nonve pesticides as it is often the only known and able option of defenses against Rice Black Bug (RBB) ce. Hence, persistent RBB infestations trigger nmental degradation in the long run, aside from the diate economic losses.

olution to the farmers' problems is to learn more about fical and sustainable management approaches for RBB, vent crop losses and diminish environmental damage same time.

ermore, such knowledge can access information on the



















hancing Research Utilization of Sweet potato livelihood Development in the Disaster Prone Communities

RRD funded projectwith Visayas State University – ppine Rootcrop Research and Training Center, University e Philippines – Institute of Plant Breeding, Tarlac College griculture, Dept. of Agriculture – Regional Field Unit III, ncial Government of Tarlac – Office of the Provincial ulturist, Province of Albay, Office of the Provincial ulturist, and Bicol University

program's overall goal is to enhance the role of tpotato as a key food and cash crop for livelihood bilitation in farming communities affected by natural ters.

broject aimed to improve the availability as sweet potato buffer food and nutrient source among households in disaster Albays to strengthen capacities of formers local





















BU Extension Framework (Educating to Build Resilient Communities)

Sustainable Upland Farming Through the Establishment of "Barangay Sagip Saka" (Conservation Farming Villages-CFVS) in Ligao City, Albay



The project is a modality for enhancing the transfer of conservation farming technologies and practices anchored on participatory planning, monitoring, and evaluation processes at the community level.

The project is located in the three barangays of Ligao City, namely: Abella, Maonon and Oma-Oma.











Project V-Dawn



The project is a community DRR model focusing on values-based development alternatives for the welfare of the needy in Albay.

It aims on building community resiliency against hunger, poverty, environmental degradation and climate change impacts.

The project currently has 104 partner farming families which will benefit from the project's objectives.



















The Enhanced Potting Preparation Technology for the Resettlement Site

the Enhanced Potting Preparation (EPP) Technology came about as a sort of intervention for the newly relocated families in the aftermath of a tremendously devastating typhoon Reming that hit the province of Albay

The EPP demonstrated its promise in making food production possible. After a year of its implementation in the relocation sites and in the BUCAF campus, words of acceptance and appreciation about the EPP technology were heard and elicited not only from the cooperators but also from those who were amazed to see the blossoming and fruit-bearing plants in EPP containers.



Training and Technical Assistance on Formulating Risk Sensitive CLUP



To identify:

- hazard zones and levels of vulnerability
- to reduce risk on low lying coastal areas or river beds
- to ensure effectiveness of response activities such as escape routes
- to project long term climate change impacts on human settlements and livelihoods
- provide guidance in formulating suitable risk reduction policies and zoning regulations such as building codes
- provide guidance in adopting suitable risk reduction measures in the development projects in the area















The DAR Agrarian Reform Community Connectivity and Economic Support Services –Market Oriented Agri Technology and Agri Extension Services

- Support service delivery mechanism DAR created to contribute to the overall goal of rural poverty reduction particularly in agrarian reform areas focused on the 6 provinces of Bicol Region
- Aimed at improving the farm and off-farm incomes of Agrarian Reform Beneficiaries (ARBs) through their organizations
- 9,863 farmer beneficiaries covering 13,586 hectares of agricultural land











Family Preparedness: the Basics in Disaster Risk Reduction and Management Project

Under the UN WFP Disaster Preparedness and Response (DPR) program which directly focused on household level interventions that built the capacity of its members to prepare for disasters and calamities that might beset their communities













 Capacity Building Trainings on FBDRRM

+Training & Technology Transfer on Home-Based Food Production *Trained Families on Disaster Preparedness

*Family Preparedness Plan, Guideline, IEC Kit

*Home-Based Gardens Established *FBDRRM institutionalized in

LGUS

Food Secure and Disaster Resilient Families













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•Volnerability, Risk & Coping Capacity Assessment

+Capacity Building Training on FRORRA

Training & Technology Transfer on Home Based Food Production



FAMILY PREPAREDNESS: THE BASICS IN DISASTER RISK REDUCTION AND MANAGEMENT Food Secure and Disaster Resilient Families

Training on First Aid and Basic Life Support







And a second star of the state

Training on Organic Vegetable. Production and Food Processing







Reducting the impred of Disestans Through Education
Synergizing Science and Technology with Indigenous Knowledge System for Climate Smart Disaster Risk Reduction and Management of LGUs to Ensure Resiliency of Communities through Extension



Communities are no longer viewed as mere victims but rather as survivors who have the capacity to reduce vulnerability to disasters and adapt to impacts of climate change using local and indigenous knowledge passed on from one generation to another. Synergizing Science and Technology with Indigenous Knowledge System for Climate Smart Disaster Risk Reduction and Management of LGUs to Ensure Resiliency of Communities through Extension

Project Output

- Publication on Indigenous Knowledge for DRR and CCA (A collection of good practices and lessons learned from experiences in Sorsogon, Philippines)
- Documentation and database of Climate Smart Science and Technology for DRR andCCA
- Trained LGUs and project beneficiaries on various climate smart DRR technologies
- Trained families on CC/Disaster Resilient Livelihood for Food Security
- Established Disaster Education e-Resource Center in 6 municipalities

Disaster Education and Messaging



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Reducing the Impact of Disasters Through Education



List of IEC materials produced, adapted, translated and distributed

- Earthquake Safety Tips
- Radiation Safety Tips
- Paglikay sa Pagkaakog



- Pagasikaso sa aking nadidipisilang humangos
- Pagaasikaso sa tao na intake sa puso
- Mga dapat gibohon pag may baha
- Mga dapat gibohon pagkatapos nin baha
- Mga senyales kun ika inaatake sa puso

Oras Kahandaan



- Radio program on Disaster Education and Messaging – every Thursday 10:00-11:00 am DZRC FM radio
- To have wider reach of clientele
- A pioneer Radio Program on disaster preparedness
- A venue for information shar disaster information



PARTNERSHIP IS KEY

Bicol University works well with Communities, local and international organizations, national agencies, local governments



Establish Partnerships









Commission on Higher Education V



Office of Civil Defense V



Bureau of Fire Protection V



Philippine Society of NSTP Educators and Implementers Inc.



Provincial Government of Sorsogon

Vision: A University of Excellence characterized by scholarship engagement for the community towards sustainable development.



NETWORKS & LINKAGES

The Bicol Extension Disaster Education Network (EDEN) is a collaboration among 33 public and private agencies in Bicol.

It was noted that building communication network is critical to mainstreaming climate change and disaster risk reduction.

At the same time, Bicol EDEN is a collaborative multi-stake holder effort by institutions across the region to share education resources to reduce the impact of natural and man-made disasters.



Extension Disaster Education Network with Bicol University Extension as the 1St International Member



A collaborative multi-stakeholder effort by institutions across the Region to share education resources to reduce the impact of natural and man-made disasters through:

-interdisciplinary and multi-state research and education programs addressing disaster mitigation, preparation, response and recovery;

-Linkages with Land Grant Universities and local agencies and organizations;

-Anticipation of future disaster education needs and actions;

-Timely and prompt communications and delivery of information that meets audience needs;

-Credible and reliable information

DISASTER RISK REDUCTION AND CLIMATE CHANGE ADAPTATION TRAINING INSTITUTE



The Climate Change Academy, spearheaded by Albay Gov. Joey Salceda offers various programs in relation to disaster risk reduction. It is also the first of its kind in the country.

Located in Bicol University Main Campus, the academy boasts executive, professional, special and community-based courses on DRR and management. It will also provide certificate programs on evacuation camp management, debris management, water sanitation management and incident command management in the near future.



Our Collective Efforts...















Our actions today will shape our future



