# School Hydrological Information Network (SHINe)









# School - Community Program





# https://www.bulacan.gov.ph/pdcc/



Community-Based Flood Mitigation and Management Program

# Welcome Message

CICIAL SEP

FLOODS maintain as the major natural disaster that affects the province of Bulacan. A wide area of the province is affected annually. The Bulacan Provincial Disaster Risk Reduction and Management Council (PDRRMC), with the continued guidance of PRFFWC of PAGASA, maintains and operates a network of rainfall, river and flood stage observation stations within the province as part of its flood disaster mitigation and management program.

This site offers information on the general hydrological situation within the province. While every effort has been put forth to update the data and information contained herein on a regular basis, site users are requested and enjoined to call the Bulacan-PDRRMO for the latest information. Thank you and we are very HAPPY to serve you!

- .: Home
- .: About PDRRMO
- .: About PDRRMC
- : CBFMMP Program
- : Bulacan Area
- .: Rainfall Stations
- Rainfall Mortoring
- : SHINe
- River Stage Monitoring
- Flood Markers
- Data Info











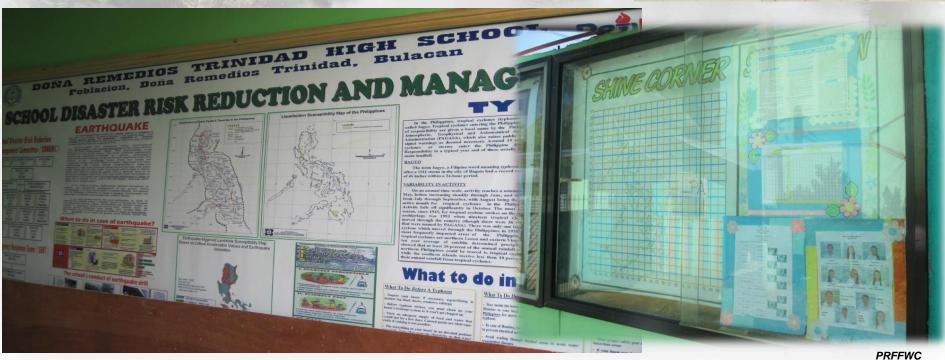


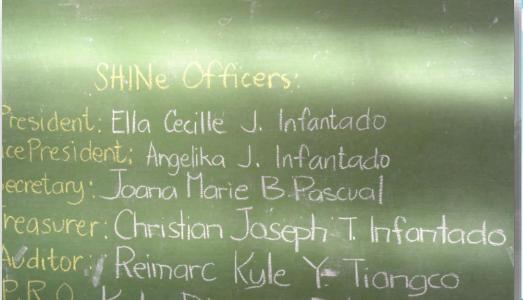












P.R.O. Kate Dianne Estrada



**Elected SHINe Officers (July 2015)** 



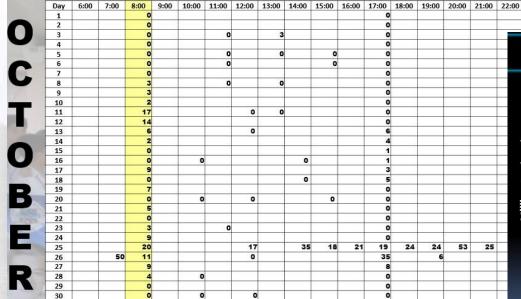
SHINE Officers Election
S.Y. 2015-2016

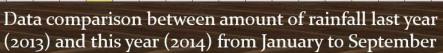
President: Ronallyn Santos

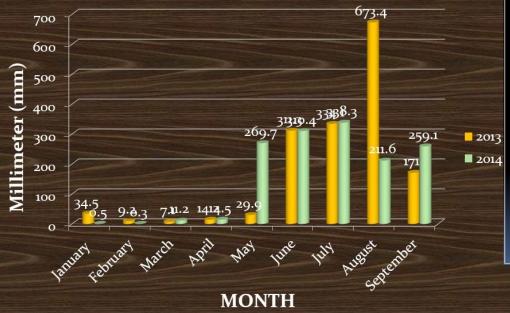
Vice President: Queena Paola Capistrano
Secretary: Morelia Crista GeronimoTreasurer: Micaella Magaddatu JonathanAuditor: Danrie Intacto
P.R.O: Toni Lopez
B.M.: Ronnie Santos
P.O: Mylene Galvez

Muse: Melonie Arotche

Escort: Allen Inscencio



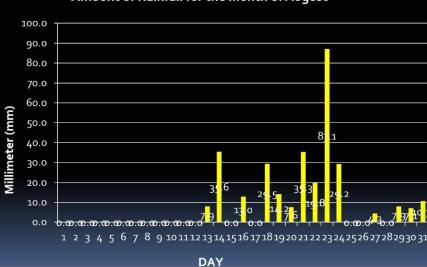




## Amount of Rainfall from January to August



## Amount of Rainfall for the Month of August





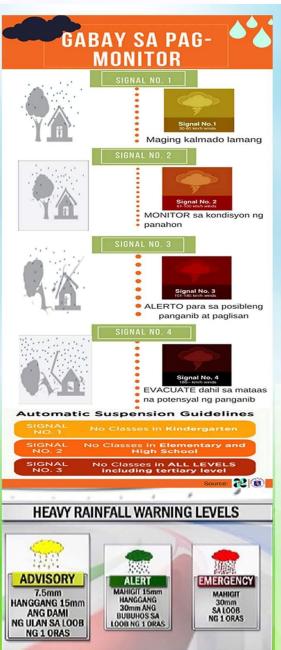














## **Hotline Numbers**

LGU- 794-0119

PNP- 795-0057

Meralco- 795-0133

Plaridel Water District- 795-0102

Fire Department- 794-9977

Mayors Office- 768-0366

Bulacan Provincial Office- 791-0630

Marceloo Padilla Hospital- 795-0119

La Consolacion Hospital- 795-4255

Provincial Disster Office- 791-0566



# Dr. Felipe De Jesus National Depter High School

Gov. Padilla Rd. Agnaya, Plaridel, Bulacan E-mail: drfelipenhs@gmail.com • Telefax: 0447605228

# School Hydrological Information Network (SHINE)

#### **BAGYO**

Ang bagyo o tropical cyclone ay isang intense low pressure area. Ang dala nitong hangin ay may bilis na 35 kilometro bawat oras (kilometer per hour o km/h). Sa tinatayang 20 bagyong pumapasok sa Philippine area of Responsibility (PAR) kada taon, 18 ang nagdadala ng matinding epekto o pinsala sa bansa.

#### MGA URI NG BAGYO:

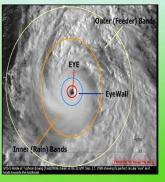
- Tropical Depression- 35 kph hanggang 61 kph
- Tropical Storm- 62 kph hanggang 88 kph
- •Severe Tropical Storm- 89 kph hanggang 117 kph
- •Typhoon- 118 kph hanggang 220 kph pataas
- •Super Typhoon- Higit 220 kph

#### **KABUUAN NG ISANG BAGYO**

#### Mata (Eye).

ang sentro ng isang bagyo, kadalasang pabilog at walang ulap na nakapalibot.

Eye Wall- may malakas na hangin at matinding pag-ulan: nasa harap at kanang bahagi nito ang pinakamalakas na h a n g i n .



Rainbands- nakaikot ang mga ito sa mata ng bagyo: may malakas na hangin at may dalang matinding pag-ulan.





**PRFFWC** 

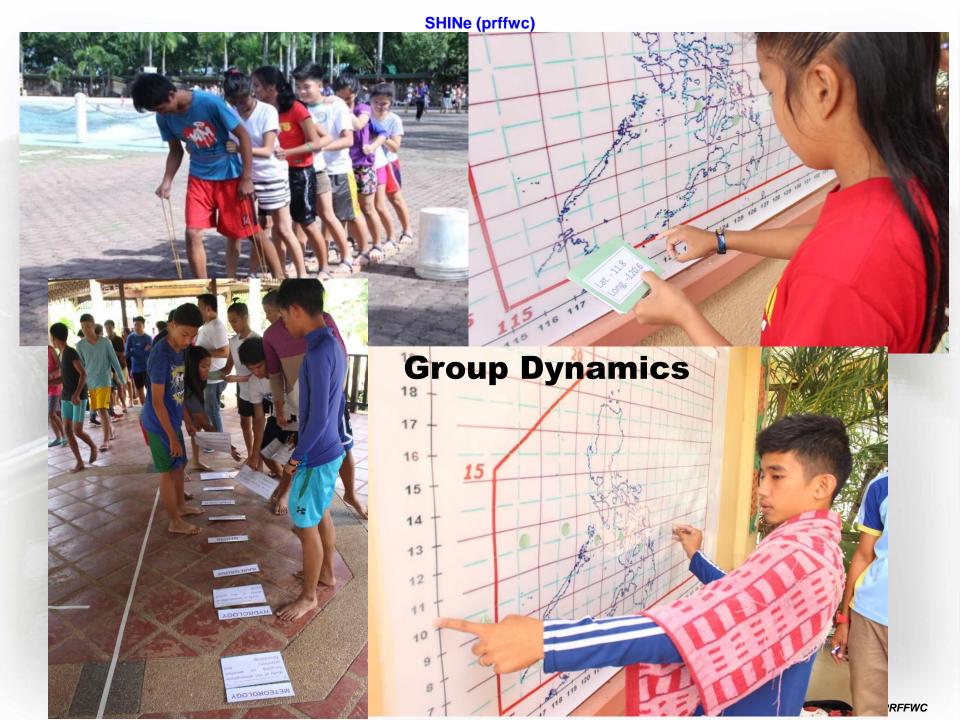
# **Annual Conferences**



DRRMrelated activities / Team bldg.









# **November 21, 2019**







Year-end activities (2017)





# SHINe Design Shirts 2018







HEAVY RAINFALL WARNING LEVELS

7.5mm HANGGANG 15mm ANG DAMI NG ULAN SA LOOB NG 1 ORAS

EMERGENCY

MAHIGIT 30mm SA LOOB NG 1 ORAS

PNP- 795-0057 Meralco- 795-0133

Plaridel Water District- 795-0102

Fire Department- 794-9977

Mayors Office- 768-0366 Bulacan Provincial Office- 791-0630

Marceloo Padilla Hospital- 795-0119 La Consolacion Hospital- 795-4255 Provincial Disster Office- 791-0566

Dr. Felipe De Jesus National DeTJED
High School
Gov. Padilla Rd. Agnaya, Plaridel, Bulacan
aiti drelipenhis@mail.com Telefay 0.4491-

## School Hydrological Information Network

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#### MGA URI NG BAGYO

•Tropical Depression- 35 kph hanggang 61 kph •Tropical Storm- 62 kph hanggang 88 kph •Severe Tropical Storm- 89 kph hanggang 117 kph •Typhoon- 118 kph hanggang 220 kph pataas •Super Typhoon- Higit 220 kph

#### KABUUAN NG ISANG BAGYO

isang



is- nakaikot ang mga ito sa mata ng bagyo: may malakas na hangin at may dalang







## PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT OFFICE

#### List of SHINE Beneficiaries

SCHOOL	CITY / MUNICIPALITY	REMARKS
DISTRICT 1		
<ol> <li>DOÑA CANDELARIA MENESES DUQUE NATIONAL HIGH SCHOOL</li> </ol>	BULAKAN	
ARSENIO SANTOS MEMORIAL ELEMENTARY SCHOOL	£ 8	
3. F. MENDOZA ELEMENTARY SCHOOL	CALUMPIT	
4. FRANCES ELEMENTARY SCHOOL	(SAVE THE CHILDREN)	
5. FRANCES NATIONAL HIGH SCHOOL		
6. STA. LUCIA HIGH SCHOOL		
7. HAGONOY EAST CENTRAL ELEMENTARY SCHOOL		
8. HAGONOY WEST CENTRAL SCHOOL	2 - 8 F 1	
9. RAMONA S. TRILLANA NATIONAL HIGH SCHOOL	HAGONOY (SAVE THE CHILDREN)	
10. SAN AGUSTIN ELEMENTARY SCHOOL	(SAVE THE CHIEDRER)	
11. STA. MONICA ELEMENTARY SCHOOL		
12. STA. MONICA NATIONAL HIGH SCHOOL		
13. CITY OF MALOLOS INTEGRATED SCHOOL	MALOLOS	
14. SAN ROQUE NATIONAL HIGH SCHOOL	PAOMBONG	
15. BAJET – CASTILLO HIGH SCHOOL	PULILAN	
DISTRICT 2		
16. BALAGTAS AGRICULTURAL NATIONAL HIGH SCHOOL	BALAGTAS	
17. VIRGEN DELAS FLORES HIGH SCHOOL	BALIWAG	
18. ILUMINADA MENDOZA – ROXAS MEMORIAL HIGH SCHOOL	BOCAUE	
19. TIBAGAN NATIONAL HIGH SCHOOL	BUSTOS	
20. GUIGUINTO NATIONAL VOCATIONAL HIGH SCHOOL	GUIGUINTO	
21. BUNSURAN NATIONAL HIGH SCHOOL	PANDI	
22. DR. FELIPE DE JESUS NATIONAL HIGH SCHOOL	PLARIDEL	
DISTRICT 3	S 30	9
23. ANGAT NATIONAL HIGH SCHOOL	ANGAT	
24. BINAGBAG NATIONAL HIGH SCHOOL	ANGAI	
25. LAURA DE LEON HALILI HIGH SCHOOL	DRT	

Talajan: 794-9853







#### PROVINCIAL DISASTER RISK REDUCTION AND MANAGEMENT OFFICE

#### List of SHINe Beneficiaries

SCHOOL	CITY / MUNICIPALITY	REMARKS
26. NORZAGARAY NATIONAL HIGH SCHOOL	NORZAGARAY	
27. AKLE HIGH SCHOOL	SAN ILDEFONSO	
28. JOHN J. RUSSELL MEMORIAL HIGH SCHOOL	SAN MIGUEL	7
29. VEDASTO R. SANTIAGO HIGH SCHOOL		
30. SAN RAFAEL NATIONAL TRADE SCHOOL	SAN RAFAEL	
DISTRICT 4	100 COA	
31. ASSEMBLY WOMAN FELICITAS G. BERNARDINO MEMORIAL TRADE SCHOOL	MARILAO	
32. MEYCAUAYAN NATIONAL HIGH SCHOOL	MEYCAUAYAN	
33. OBANDO NATIONAL HIGH SCHOOL	OBANDO -	
34. OBANDO SCHOOL OF FISHERIES		
35. FORTUNATO F. HALILI NATIONAL AGRICULTURAL SCHOOL	STA. MARIA	
36. STO. CRISTO NATIONAL HIGH SCHOOL	SAN JOSE DEL MONTE	
37. SAN JOSE DEL MONTE NATIONAL HIGH SCHOOL		

# To date, for Bulacan Province... 37 school beneficiaries (11 E.S.)



PINRM Operation Capital Compound, Georges, City of Maloles, Bulacan 300t Telephone No. 791-0366 Talafan: 794-9853







# December 2008

December 35-90, 5000

# Bulacan SHINE

FT THE Holean Provincial Discour Management Office (F20470) passions through the school's Ad the opin forg when a topol party about statum. In a contemporal reasons. by choose respected and mingrate program.

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Wise or Otherwise Dien Balabo

Dubbest as the School Hydrological Information Network (SHINE)", the program is one major activity aimed at addressing the esses on global warming and climate change focusing on awareness and mitigation of leadrometeorological related disasters.

Jitz, Geophysical, and Astroremark Services Administra-HOW OF BUILDASKS.

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The program is impacted in respond to at least 10 same arthuras before the dad of the first quarter of 2009, while an teran-school. SECTYE, or network to once progressioned chartes; the conother by, or the Discount commission. term wouth to fully most tone.

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That is what SHINE progreen resisted by persons.

# <u>November 2009</u>

Bulacan taps students in flashflood prevention

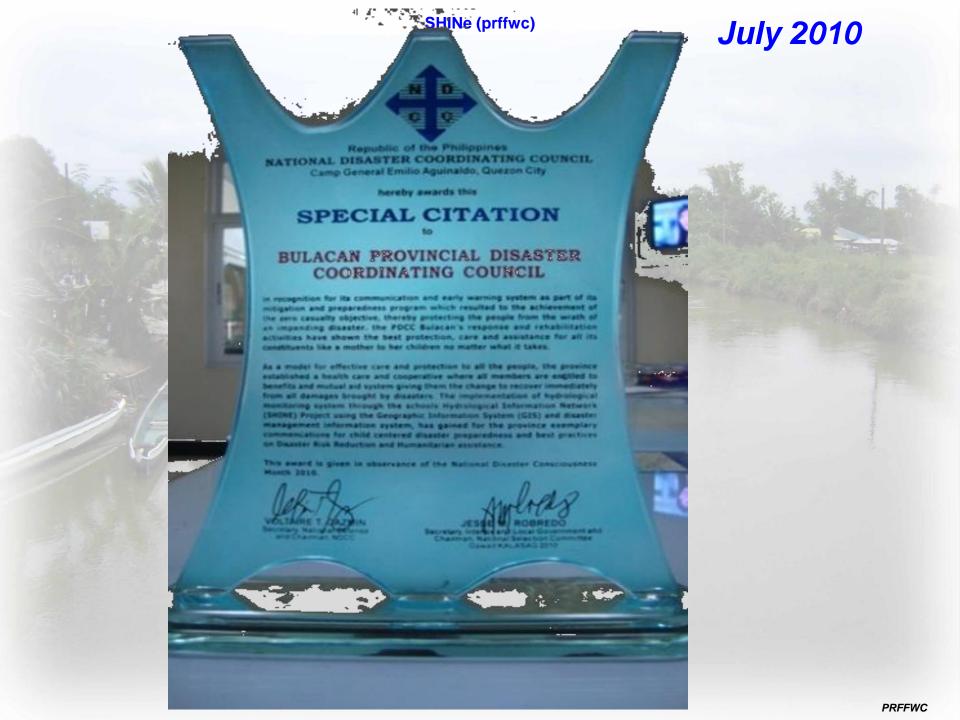
MALOLOS CITY -Strolents from different oublic high schools in eastern Bulacan are being tamped by the provincial government to mitigate flood disasters through the School Hydrological Intormation Network Project (Project Shine).

Felicisima Mungcal, head of the Provincial Disaster Management Office, said Project Shine aims to bra sadtasw sraver shivorg flood bulletins and other related information whenever the situation warrants.

She said that real time information will allow the PDMO time to analyze data that will lead to fast issuance of flood advisories to the local government unit on flood prone areas in the province:

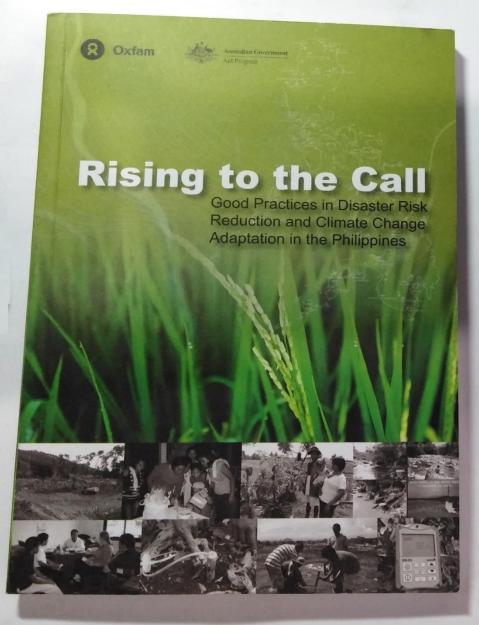
The advisories, the PDMO said, are crucial in saving properties and lives nd people in low lying areas. including fish stocks of fishpond operators in the coastal areas of Bulacan

in previous years, flood advisories insued by the PERMO helped seve fourdreds of multions in asparmalture products in the towns of Hagoriou Calumpet and Paombong, all in-





SHINe (prffwc)



2011



http://bulacanshine.yolasite.com/related-materials.php

## Save the Children



#### Project ENCORE aims to:

 Increase the capacity of children and youth to identify risks, solutions, and initiate action on DRR within their communities; Project ENCORE 2013 - 2017
Enhancing Community Resilience to Disasters

# Supporting SHINe (School Hydrological Information Network)

Increasing children's awareness and participation in disaster risk reduction

On September 26, 2011, Typhoon Nesat (Pedring) hit close to 3,500 communities in the northern region of the Philippines. Typhoon Nalgae (Quiel) hit on October 1, taking the same route. About 4 million were affected by the typhoons, destroying agricultural lands, road and water systems, health centers and 914 schools. A total of 101 people died, including 42 children.

Save the Children's Project ENCORE (Enhancing Community Resilience to Disasters) builds on the Nesat/Nalgae emergency as well as other programs' experience to increase the understanding of the hazards the province of Bulacan faces. Through an innovative urban disaster risk reduction approach, the project aims to facilitate the organizing of child-led groups to disseminate DRR/mitigation messages and implement DRR/mitigation activities supporting the province's SHINe (School Hydrological Information Network) program.

In coordination with Ms. Liz Mungcal, Bulacan's Provincial Disaster Risk Reduction Management Officer, Mr. Hilton Hernando, Assistant Weather Services Chief of the Pampanga River Basin Flood Forecasting and Warning Center/PAGASA which is under the Department of

Programs Outside Bulacan...





## REPUBLIC OF THE PHILIPPINES

TELEFAX: OPERATIONS (045) 455-0033 ; ADMIN (045) 455-1526 MOBILE NOs.; SMART (0939-939-3051) ; GLOBE (0917-547-2805) EMAIL: region3@ocd.gov.ph // r3.rdrmc.ocd@gmail.com

RDRRMC Resolution No. 003, s. 2019

RESOLUTION ADOPTING THE SCHOOL HYDROLOGICAL INFORMATION NETWORK (SHINe) AND ENJOINING THE REGION'S LOCAL GOVERNMENT UNITS TO SUPPORT THE SAME

WHEREAS, the Philippines has been identified as one of the world's disaster hotspots that is frequently battered by storms and at high risk to geologic hazards;

WHEREAS, the country enacted Republic Act (RA) 10121, an "ACT STRENGTHENING THE PHILIPPINE DISASTER RISK REDUCTION AND MANAGEMENT SYSTEM and PROVIDING FOR THE NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT PLAN," which mandated stakeholders to take a more holistic approach to disaster by adopting not just response measures but, equally important, prevention and mitigation as well as preparation and rehabilitation and restoration measures:

WHEREAS, section 2 (a) of RA 10121 states that the state should uphold the people's constitutional rights to life and property by addressing 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;

WHEREAS, section 14 of RA 10121 mandates local DRRM to encourage community, specifically the youth, participation in disaster risk reduction and management activities, such as organizing quick response groups, particularly in identified disaster-prone areas, as well as the inclusion of disaster risk reduction and management programs as part of the SK programs and projects.

WHEREAS, the Province of Bulacan (PGB) and the Department of Education with the guidance of the Pampanga River Flood Forecasting and Warning Center (PRFFWC) of PAGASA initiated the School Hydrological Information Network (SHINe), a program aimed at addressing the issues on the effects of climate change, particularly on awareness to hydrometeorological related disasters, mainly floods;

WHEREAS, the true essence of SHINe is disaster awareness through the school's hydrological activities as it empowers the school and community to protect, prepare and make them resilient against the disastrous effects of flooding:

NOW, THEREFORE, BE IT RESOLVED, that the RDRRMC adopt the SHINe, a program strengthening the flood disaster awareness and resiliency of schools and the community.

RESOLVED FURTHER, that the Council enjoins all local government units in Central Luzon to support the same.

## March 2011 9cted the

f Schools and the Network (SHINe)

> addressed by the PGB ng-term basis. SHINe, oproaches that proved evention particularly at

rovince of Bulacan. A overnment of Bulacan D), with the continued Center (PRFFVVC) of rk of rainfall, river and ood disaster mitigation

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ERNANDO, PAMPANGA

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**PRFFWC** 



DepED

#### CERTIFICATE OF APPRECIATION

Engr. Hilton T. Hornando

thru the school's hydromosporolisased monitoring activities since 2008 when SHINE was scared to be implemented in the Everines of Studiesan. He exhibits exemple to degree in the transfer of knowledge in the school community to protest, propere them and make themselves resilient against the distriction effects of tephnon and flood by achieving and manuaring a high-level of school presarches

Sieven this 19th days of Kovember 2015 during the 6st SHINE Forefor 8st Warre Winter Bark and Hotel Ultragas, Sown Rashed S

DR FELIPE DE JESUS NATIONAL HIGH SCHOOL

Certificate of Appreciation

HILTON T. HERNANDO

for having served as **Resource** Speaker in the \*Orientation on Project SHIME (School Hydrological Information Network).

Given this 7th day of October, 2016 at Or. Felipe De Jesus Kational High

School, Agnaya, Plaridel, Bulacan

of the Philippines DenED

DONA CANDELARIA MENESES DUQUE NATIONAL HIGH SCHOOL Sembons Bulican, Eukoan

Certificate of Recognition

ENGR. HILTON T. HERNANDO

Senior Weather Specialist Pampanya River Basin Flood

Forecasting and Warning Center

Meneses Duque National High School, Bambang Bulakan, Bulacan

- Hallen

ROMAN M. CARREON

In grateful recognition for sharing his well-defined expertise as RESOURCE SPEAKER during the SHINe (School Hydrological

Given this 28th day of September 2017 at Donn Candelaria









PROJECT







VIRGEN DELAS FLORES HIGH SCHOOL

THE TOTAL TOTAL OF THE TOTAL OF

#### **HILTON T. HERNANDO**

RESOURCE SPEAKER

In his valuable contribution in addressing the issues of GLOBAL WARMING in the School Hydrological Information Network (SHNE) Program.

Given this 11th day of October in the Year of our Lord, Two Thousand and Sixteen at Virgen Delas Flores High School, Balinag, Bulscan.











is hereby given to

HILTON HERNANDO

DECENC DACASA

as RESOURCE SPEAKER during the

"School Hydrometeorological Information Network (SHINe) Orientation and Training" Given this 17th day of June 2016 at Granada National High School - Ballesteros Campus, Gabi, Carles, Iloilo



San Roque National High School

#### CERTIFICATE OF RECOGNITION

is presented to

Hilton T. Hernando Senior Weather Specialist, Pampanga River Basin Flood Forecasting & Warning Center

for his invaluable knowledge imparted as SPEAKER for the launching of Project SHINe

( School Hydrological Information Methods of Project SHINe



#### **CERTIFICATE OF RECOGNITI**

**HILTON HERNANDO** 

in recognition of your invaluable contribution in making schools and commu

14 July 2017 | 8F Robredo Hall, DILG Central Office, Quezon City

Ned Oliney Country Director Save the Children - Philippines





#### REPUBLIC OF THE PHILIPPINES Department of Science and Technology

PHILIPPINE ATMOSPHERIC GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION

presents this

#### GAWAD PAGASA

GAWAD PAGASA INNOVATION OUTSTANDING AWARD (1ST PRIZE)

#### SHINE PROGRAM

National Capital Region PAGASA Regional Services Division

For the invaluable contribution in terms of suggestion/invention which resulted to the resource/savings generation of the Agency.

> Given at Quezon City this 13th day of December Two Thousand Nineteen.







Republic of the Philippine Province of Nueva Ecija MUNICIPALITY OF JAEN



#### CERTIFICATE OF APPRECIATION

#### HILTON T. HERNANDO

co being a Resource Speaker during the activity antified "Orientation on School Hydrological Information Network (SHIME) Program 'a spart of the celebration of the National Disaster Resilience Month 2019 below thursieged Germasians Municipal Compound, Brgy, Sepang, Jam. Naeva Edija.

Awarded this 31<sup>ad</sup> day of July 2019 at Municipal Gymnasium, Municipal Component, Jaco, Nusva Fejja.

MARSANE, MATEO, RN

Department of Science and Technology

PHILIPPINE ATMOSPHERIC, GEOPHYSICAL AND ASTRONOMICAL SERVICES ADMINISTRATION

GAWAD PAGASA

Innovation Outstanding Award

#### SHINE PROGRAM

National Capital Region PAGASA Regional Services Division

For the invaluable contribution in terms of suggestion/invention which resulted to the resource/savings generation of the Agency.

Given at Quezon City this 13" day of December Two Thousand Nineteen

Yadina/

VICENTE B. MALANO, Ph.D.



OBANDO SCHOOL OF FISHERIES

CERTIFICATE OF APPRECIATION

ENGR. HILTON T. HERNANDO

for having served as RESOURCE SPEAKER/FACILITATOR during the LAUNCHING OF NEW SCHOOL HYDROMETEOROLOGICAL NETWORK (SHINE)

held on September 27, 2018 at Obando School of Fisheries In coordination with the Obando Municipal Disaster Risks and Management Office

Given this 23th day of September, in the year of our Lord Two Thousand and Eighteen at Obando School of Pisheries, Tawiran, Obando, Bulacan



CERTIFICATE OF APPRECIATION

**HILTON T. HERNANDO** 

R IMPARTING HIS KNOWLEDGE AND FX

SHINE PROJECT ORIENTATION AND MOA SIGNING. GIVEN THE IT!" DAY OF OCTOBER 2019 AT FRANCISCO G. NEROMICCING MEMORIAL LIGH SCHOOL BOARD ROOM, FANDAN, ANGELES CITY.

MARLLOU A. SIMEON

Information Network) Orientation

## **July 2019**



SHINe (prffwc)

**Sept – Oct 2019** 





#### SHINe (prffwc)



# Possible developments of the Project - as a PAGASA program in the community level:

- 1. Can be easily replicated
- 2. Partnership with school & community
- 3. NO sizeable funds needed
- 4. Can be tied-up with other local programs / undertakings (e.g. Local Flood Early Warning System)
- 5. Establishes PAGASA's presence at the community level



### Related sites / links:

- 1 SHINe OXFAM Good Practice in DRR-CCA http://bulacanshine.yolasite.com/resources/SHINe%20OXFAM-Good%20Practice%20in%20DRR-CCA.pdf
- 2 GMA-7 Unang Hirit: SHINe in Bulacan Province <a href="https://www.youtube.com/watch?v=7M3Oqcebrqs">https://www.youtube.com/watch?v=7M3Oqcebrqs</a>
- 3 Project ENCORE by Save the Children:
  http://bulacanshine.yolasite.com/resources/Project%20ENCORE%20%28SHINe%20with%20Save%20t
  he%20Children%29.pdf
- 4 SHINe Annual Conference Proceedings: https://www.bulacan.gov.ph/pdcc/workshop\_proceedings.html
- 5 Regional Disaster Risk Reduction & Management Council Region 3 Resolution No. 3 s. 2019 (Adoption of SHINe in the Region: <a href="http://bulacanshine.yolasite.com/related-materials.php">http://bulacanshine.yolasite.com/related-materials.php</a>
- 6 1<sup>st</sup> SHINe Conference Proceedings: http://bulacanshine.yolasite.com/resources/1st%20SHINe%20Conference.pdf
  - SHINe website: <a href="http://bulacanshine.yolasite.com/">http://bulacanshine.yolasite.com/</a>
  - https://bulacanshine.webs.com/
  - Facebook Page (Main) <a href="https://www.facebook.com/SHINeBulacan/">https://www.facebook.com/SHINeBulacan/</a>
     Bulacan PDRRMC SHINe Webpage: <a href="https://www.bulacan.gov.ph/pdcc/workshop-proceedings.html">https://www.bulacan.gov.ph/pdcc/workshop-proceedings.html</a>



