



Republic of the Philippines  
**Department of Education**  
REGION VIII - EASTERN VISAYAS

November 22, 2021

**OFFICE MEMORANDUM**

No. **000620** s. 2021

To: **EASTERN SAMAR DIVISION**  
**BILIRAN DIVISION**

**INVITATION TO PARTICIPATE IN THE RESEARCH ON ADAPTATION STRATEGIES OF SCHOOLS EXPERIENCING FLOODS AND SEA LEVEL RISE**

1. Attached is Memorandum No. DRRMS-11-15-2021-005 on the Invitation to Participate in the Research on Adaptation Strategies of Schools Experiencing Floods and Sea Level Rise.
2. Hitherto, Memorandum No. DRRMS-08-23-2021-002 invited various Divisions to participate in the data-gathering. Two schools from the Region responded and **Sulangan Central Elementary School** in **Eastern Samar Division** was turned down due to coordination issues. On the other hand, **Core Shelter Elementary School** in **Biliran Division** is invited to participate in the research program.
3. In view thereof, the Schools Division Superintendent concerned is requested to **approve and support** the participation of the school for data gathering. In turn, the school and the Division DRRM Coordinators are requested to confirm their participation by submitting the following to **drmo+ccam@deped.gov.ph** on or before **26 November 2021**:
  - a. Confirmation Slip (attached to the Memorandum)
  - b. Names and email addresses of the following:
    - Teaching personnel
    - Non-teaching personnel
    - Learners
4. Immediate dissemination of and compliance with this Memorandum are desired.

  
**EVELYN R. FETALVERO, CESO IV**  
Regional Director

ESSD-SPPS-EAD



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ISO 9001:2015 Certified

DepEd RO8 ATA-F16 (CY2018-v03-r00) Page 1 of 1





REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF EDUCATION**  
**DISASTER RISK REDUCTION AND MANAGEMENT SERVICE**  
Rm206MABINI BLDG., DEPED COMPLEX, MERALCO AVENUE, PASIG CITY  
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**MEMORANDUM**

No: DRRMS-11-15-2021-0005

OFFICE OF THE DIRECTOR IV	
Date and Time Received	Signature
19 NOV 2021 1:20	[Signature]
19 NOV 2021 4:15	[Signature]

**FOR :** Regional Directors of Regions VII, VIII, XI, XII and CARAGA  
Schools Division Superintendents of Bohol, Biliran, Eastern Samar, Tagum City, North Cotabato and Butuan City  
Regional and Division DRRM Coordinators Concerned  
School Heads Concerned  
All Others Concerned

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RECEIVED	
OFFICE OF THE DIRECTOR IV	
DISASTER RISK REDUCTION AND MANAGEMENT SERVICE NO VII	
BY: [Signature]	TIME: 4:00

**THRU :** **ALAIN DEL B. PASCUA**  
*Undersecretary for Administration*

**FROM :** **RONILDA R. CO**  
*Director IV*  
Disaster Risk Reduction and Management Service

**SUBJECT :** **INVITATION TO PARTICIPATE IN THE RESEARCH ON ADAPTATION STRATEGIES OF SCHOOLS EXPERIENCING FLOODS AND SEA LEVEL RISE**

**DATE :** 16 NOVEMBER 2021

The Philippines is highly exposed to natural hazards such as storms, flooding and rising sea levels. Thus, it is greatly vulnerable to the impacts of climate change.

In times of disasters, education is one of the most vulnerable sectors as the weather conditions often disrupt learning and the normal operations of schools and DepEd offices. They threaten and affect both the lives of learners and personnel as well as other educational resources and investments.

For this reason, the Department of Education (DepEd), through the Disaster Risk Reduction and Management Service (DRRMS), engages a Highly Technical Consultant (HTC) to **research on existing adaptation strategies of various schools experiencing floods and sea level rise.**

The outcome of this research will be used as basis for recommending policies and interventions at the school, division, regional and national levels.

Kindly refer to **Enclosure 1** for the Concept Note.

Relevant to the confirmations we received in response to the issuance of the Memorandum No. DRRMS-08-23-2021-0002 last 6 September 2021 inviting various divisions to participate in the data gathering, the DRRMS is hereby turning down the following schools listed in Table 1 due to coordination issues.

**Table 1**  
**LIST OF SCHOOLS BEING TURNED DOWN**

<b>REGION</b>	<b>DIVISION</b>	<b>SCHOOL NAME</b>	<b>SCHOOL ID</b>
VIII	E. Samar	Sulangan Central Elementary School	122568
XII	N. Cotabato	Datu Bitol Mangansakan Memorial High School	316550

On the other hand, the office would like to request the **support and approval of Regional Directors and Schools Division Superintendents concerned of the schools listed in Table 2 for data gathering.**

The activities may include Focus Group Discussions (FGD), Key Informant Interviews (KII), online surveys and submissions of evidence such as photos and other data.

**Table 2**  
**IDENTIFIED SCHOOLS EXPERIENCING SIGNIFICANT SEA LEVEL ANOMALIES\***

<b>REGION</b>	<b>DIVISION</b>	<b>SCHOOL NAME</b>	<b>SCHOOL ID</b>
VII	Bohol	Batasan Elementary School	118773
VIII	Biliran	Core Shelter Elementary School	120778
XI	Tagum City	Jose Tuason Jr. Memorial National High School	304231
CARAGA	Butuan City	Lumbocan National High School	304766

*\*Based on online sites such as NASA Sea Level Change, MEaSUREs, 2013 NAMRIA Inundation Maps, and Geoportal PH.*

These schools and their Division DRRM Coordinators are requested to **confirm their participation** by submitting the following to **drmmo+ccam@deped.gov.ph** on or **before 26 November 2021**:

1. Confirmation Slip (Please see **Enclosure 2**)
2. Names and email addresses of the following (**for sampling purposes**):
  - Teaching personnel
  - Non-teaching personnel
  - Learners

For more information, you may contact Ms. Angela De Guzman of DRRMS through email address [angela.deguzman001@deped.gov.ph](mailto:angela.deguzman001@deped.gov.ph).

For your appropriate action.

Thank you.



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**DEPARTMENT OF EDUCATION**  
**DISASTER RISK REDUCTION AND MANAGEMENT SERVICE**

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**Enclosure 1. Concept Note – Research on Existing Adaptation Strategies  
of Various Schools Experiencing Floods and Sea Level Rise**

**I. Rationale**

Many people prefer to live in coastal zones primarily for livelihood, transportation, food supply and ecological reasons. Coastal areas are constant sources of supplies for subsistence, access points for trade and transport as well as places for recreational activities.<sup>1</sup> Eight of the ten largest cities in the world are coastal communities.<sup>2</sup> However, livability in these zones is at high risk due to several increasing threats brought by climate change.

Regardless of preventive measures in place, many experts and residents are apprehensive about the effects of the rising global temperature. According to the World Economic Forum, results of the Global Risks Perception Survey 2018-2019 showed that the second most cited risk of concern, in terms of impact, is the failure of governments and businesses to enforce or enact effective measures to mitigate climate change, protect populations and help companies affected by climate change to adapt.<sup>3</sup>

The Philippines has more than P 1.05 billion-worth of lands and structures that are under threat from rising sea levels. (Bayani, Dorado, & Dorado, 2009 as cited by OMLC) It is projected that 51% of current coastal wetlands will be eroded based on a so-called A2 climate scenario.

Aside from the direct threat of rising sea level, the Philippines is also hit by tropical storms, coastal and river floodings, dry land loss, salinity intrusion and human migration. (Mcleod et al., 2010 as cited by OMLC)

As sea levels rise, coastal communities are now faced with frequent inundations, coastal erosion, saltwater intrusion and changes in the sediment deposition.<sup>4</sup> The frequency and intensity of extreme weather events, particularly tropical cyclones, monsoon rains and heat waves, pose a huge threat to schools.

The Enhanced Basic Education Information System (EBEIS) from School Year 2009-2010 to School Year 2017-2018 recorded that 43,810 public schools in the

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<sup>1</sup> Neumann, Barbara, Athanasios Vafeidis, Juliane Zimmermann, and Robert Nicholls. 2015. "Future Coastal Population Growth and Exposure to Sea-Level Rise and Coastal Flooding - A Global Assessment." *PLoS ONE*.

<sup>2</sup> United Nations. n.d. *UN Atlas of the Ocean*. Accessed September 07, 2019. <http://www.oceansatlas.org/subtopic/en/c/114/>.

<sup>3</sup> World Economic Forum. 2019. *The Global Risks Report*. Geneva: World Economic Forum.

<sup>4</sup> Mimura, Nobuo. 2013. "Sea-level rise caused by climate change and its implications for society." *Proceedings of the Japan Academy* 281-301.

country, out of a total of approximately 47,000, experienced natural disasters at least once in the past eight (8) years.

The system also showed that there were about 39,738 schools that had been affected by tropical cyclones and 25,191 schools that experienced flood within those years.

Schools located in coastal areas are more susceptible to natural calamities. There are a total of 5,824 schools which are located in the coastal areas as of School Year 2017 to 2018.

With this, DepEd's Disaster Risk Reduction and Management Services (DRRMS) will research on the existing adaptation strategies of schools experiencing floods and sea level rise. This is will used in crafting a policy on the matter by the Department.

## II. Objectives

The main objective of this study is to improve our understanding on how schools adapt to the threats posed by flooding and sea level rise and come up with management strategies and policy interventions to address its impacts. In doing so, it intends to accomplish the following:

1. Validate the existing risks and vulnerabilities of schools experiencing flooding and sea level rise within the past ten years.
2. Examine the impacts of flooding and sea level rise to identified schools.
3. Analyze the adaptation and mitigation strategies of identified schools by selecting the good practices, lessons and challenges.
4. Propose recommendations for policy intervention at school, division, regional and national level, including policies of the local government with regard to the impacts and effects of flooding and sea level rise.

## III. Indicative Timeline

Date	Activity / Milestone
August 8, 2018	Alignment meeting with the Highly Technical Committee (HTC)
August 14, 2018 to August 1, 2019	Final Research Proposal
	a. Initial data gathering
	b. Screening and scoping of participants
September 9	c. Submission of draft research proposal
September 21	d. Proposal presentation with DRRMS' various teams' representatives and Director
November 9	e. Recommendation to proceed and approval of the Director
	a. Endorsement of the HTC to: <ul style="list-style-type: none"> <li>• Participating schools, divisions and regions</li> </ul>

		<ul style="list-style-type: none"> <li>• Manila Observatory</li> <li>• LCEs and MDRRMOs</li> </ul>
	November 26	b. Revision/s and finalization of schools to engage in the research
		c. Conduct of data gathering
		a. Review and revisions of draft research (including offices concerned in the Central Office)
		b. Writing and submission of revised draft of research and draft press release with visual scribe
		d. Research presentation with DRRMS' various teams' representatives and Director (and other offices concerned in the Central Office, Regional Offices and Divisions, as well as the School Heads who participated in the data gathering)
		e. Revisions and review based from the comments during the presentation
		f. Submission of the final research, photo documentation of the activities and/or milestones, final draft of press release with visual scribe and compilation of all data gathered

#### IV. Roles and Responsibilities of Parties

##### A. DepEd DRRMS shall:

- Assign a focal person to coordinate the research with the Highly Technical Consultant (HTC).
- Coordinate with the regional and division DRRM coordinators for data gathering.
- Provide necessary initial data needed for the conduct of the research.
- Review the outputs of the HTC.

##### B. The Highly Technical Consultant (HTC) shall:

- Coordinate with DepEd DRRMS' assigned focal person, school heads concerned and personnel in conducting the research.
- Prepare a Research Design Proposal based on the topic and initial research questions.
- Implement the research design in coordination with DepEd DRRMS including, but not limited to, desk research, online or face-to-face data gathering and write-ups.
- Prepare a monthly report of accomplished activities.
- Adhere to the Department's Manual of Style.
- Submit a project report.

**C. The Regional and Division DRRM Coordinators shall:**

- Endorse the HTC to School Heads.
- Ensure that individuals concerned will participate in the data gathering activities (i.e. survey, focus group discussion or FGD and/or key informant interview or KII).
- Provide insights (highlights and recommendations) to improve the data gathering.

**D. The School Heads and other individuals concerned shall:**

- Participate in the data gathering activities (i.e. FGD and/or KII).
- Attend any relevant pre-engagement and post-engagement activities.
- Provide all necessary data needed for the conduct of the research.

**Enclosure 2. Confirmation Slip**

**School Head**

<b>Name</b>	
<b>School Name</b>	
<b>Contact Number</b>	
<b>Email Address</b>	

**Focal Person Assigned by School Head**

<b>Name</b>	
<b>Designation</b>	
<b>School Name</b>	
<b>Contact Number</b>	
<b>Email Address</b>	

**Division DRRM Coordinator**

<b>Name</b>	
<b>Division/Region</b>	
<b>Contact Number</b>	
<b>Email Address</b>	

**Regional DRRM Coordinator**

<b>Name</b>	
<b>Division/Region</b>	
<b>Contact Number</b>	
<b>Email Address</b>	

**Endorsed by:**

(Signature)  
**Name of SDS**  
(Schools Division Superintendent)  
Division of \_\_\_\_\_

(Signature)  
**Name of RD**  
(Regional Director)  
Region \_\_\_\_\_