



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

Advisory No. **176**, s. 2023
September 25, 2023

In compliance with DepEd Order (DO) No. 8, s. 2013
This advisory is issued not for endorsement per DO 28, s. 2001,
but only for the information of DepEd officials,
personnel/staff, as well as the concerned public.
(Visit deped.in/region8.deped.gov.ph)

**MET INNOVATION 2023 – EASTERN VISAYAS REGION
BY THE PHILIPPINE METEOROLOGICAL
SOCIETY, INC. (PMS)**

Attached is the letter from PMS President, Engr. Lorenzo A. Moron, dated September 22, 2023.

The PMS will conduct the Met Innovation 2023 – Eastern Visayas Region on November 25, 2023 at the Visayas State University, Baybay City.

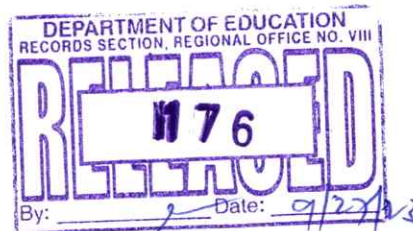
The target participants are STEM high school classroom teachers and learners from both public and private schools.

Participation of both public and private schools shall be subject to the *no-disruption-of-classes policy* stipulated in DepEd Order No. 9, s. 2005 entitled *Instituting Measures to Increase Engaged Time-on-Task and Ensuring Compliance Therewith*.

See the attached letter for more information.

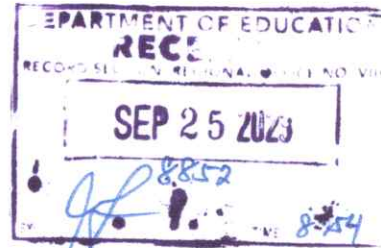
Considering that this is an Advisory, Schools Division Superintendents are given the discretion to act on this matter.

CLMD-RRT *AM*





Philippine Meteorological Society, Inc.
 PAGASA Main Bldg., Science Garden Complex
 BIR Road, Diliman, Quezon City, 1100
 Tel.No. (632) 9294570 / 9221996
 Website: www.philmetsoc.com



September 22, 2023

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EVELYN R. FETALVERO
Regional Director
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 Government Center, Candahug, Palo, Leyte



Dear Director Fetalvero,

The Philippine Meteorological Society Inc. (PMS) is a non-stock, non-profit, and non-governmental organization dedicated to the advancement of meteorology, atmospheric sciences, and related disciplines in the Philippines. One of the advocacies of PMS is the promotion of science of meteorology in our country.

This year, the PMS will conduct a project entitled "**Met Innovation 2023 – Eastern Visayas Region**". It is a competition of research and innovation with tangible prototypes for high school students in Region VIII (Eastern Visayas Region). This competition is in partnership with Department of Science and Technology – Philippine Atmospheric Geophysical and Astronomical Administration (DOST - PAGASA), DOST – Science Education Institute (SEI), and Visayas State University (VSU). Aside from the research and innovation competition for students, experts from PMS and PAGASA will also conduct a series of training in specific thematic areas such as (a) *weather forecasting*, (b) *hydrometeorology*, (c) *climate*, and (d) *astronomy* for 30 high school Science teachers within the region.

In connection with this, we would like to request your good office for an advisory and support of these activities. We would like to request assistance in disseminating information among the various high schools within the Eastern Visayas Region and in providing official support to teachers and students who will be participating.

We attached in this letter the mechanics and guidelines of the competition. Also, we would be honored to have you or your representative to serve as one of our judges in the finals of **Met Innovation 2023**. **Both the competition and training series will be held at Visayas State University Baybay Campus, Baybay, Leyte on November 25, 2023 (Saturday).**

For any further inquiries and concerns you may contact **Mr. Robert Badrina** our Outreach Committee Vice Chairperson at **09568571821** or email address at rbbadrina@gmail.com. You may also send an email to the VSU – Baybay Campus at charlie.andan@vsu.edu.ph.

Thank you and we hope for your favorable response on this matter.

Very truly yours,


ENGR. LORENZO A. MORON
 PMS President



CALL FOR ENTRIES

The Philippine Meteorological Society (PMS), in collaboration with the Department of Science and Technology – Science Education Institute (DOST-SEI), Philippine Atmospheric Geophysical and Astronomical Services Administration (DOST-PAGASA), and Visayas State University – Department of Meteorology under the program “METeorology for YOUNg Scientists: Science, Technology and Innovation or MET4YOU”, will be conducting competition dubbed as “MET-Innovation: Meteorological Innovations Competition for High School” which generally aims to boost the enthusiasm and interest of young science enthusiasts in Meteorology and allied sciences and become part of the growing community of meteorologists in the country with shared goal and interest of promoting meteorological services in the country. MET-Innovation is a battle of research and innovations with tangible project prototype among senior high schools. The contest is expected to enhance the technical and scientific capacities of young science students who have enthusiasm and interest in meteorology, atmospheric science, and allied sciences. Specifically, it aims to (1) boost the research and development capabilities of young science students; (2) encourage students to conduct studies and/or innovate ideas related to meteorology and/or early warnings for DRRM; and (3) allow them to pursue their passion in science, technology, and innovations particularly in the areas of atmospheric science, meteorology, climatology, hydrology, and other related fields.

How to join?

- A group-based competition (minimum of 3 and maximum of 5 student members, maximum of 2 teachers/coaches) who are currently enrolled and teaching respectively in any High School in Eastern Visayas Region are encouraged to join the contest. **A maximum of two (2) entries or teams will be allowed per school.**
 - Each participating team should submit an abstract and/or description of research/innovation. Abstracts should be submitted to pms.convention.secretariat@gmail.com. (Please follow the template attached in this document.) Deadline of submission is until **October 31, 2023**.
 - Submitted abstract of the project should be aligned to Meteorology and/or early warning system for Disaster Risk Reduction and Management (DRRM).
1. Should there be more than 10 entries after the set deadline, all entries shall be initially screened by the panel of judges/experts.
 2. Top 10 entries, upon initial screening, will be invited for a final presentation before the Panel of Judges during the Grand Competition Day to be held on **25 November 2022 at Visayas State University, Baybay Campus, Baybay City, Lyte**. Written invitation will be sent to schools of the Top 10 entries.

Competition Day

1. The contest will be conducted face-to-face which will be held at the Visayas State University – Baybay Campus. The presenters should strictly observe the allotted time for presentation. Following the program, each presenter is given only 20 minutes presentation – 15minutes for the presentation and 5 minutes for the Question and Answer.
2. Maximum of three (3) members in each group are allowed to present their entry.
3. Research adviser/s shall not be allowed to answer questions from the panel in behalf of the group.
4. Due to time constraints, the presenters should arrive at the venue at least 15 minutes prior to the scheduled time of presentation. In case the presenters failed to arrive 10 minutes from the scheduled time of presentation, the group, upon the decision of the board, will be automatically disqualified.
5. Research entry will be judged according to the following criteria:

QUALITY	30%
INNOVATIVENESS	35%
OPERATIONAL VALUE	35%
TOTAL	100%

6. Winners (Top 3) and seven (7) consolation prizes will be immediately announced after the competition proper.
7. The decision of the board of judges is final and executory.

BENEFITS

1. Advisers of the the Top 3 winners (1st, 2nd, and 3rd Place) will be invited to be part of the Philippine Meteorological Society (PMS) according to their qualification.
2. The over-all champion (one coach and one student) will be supported to attend the Philippine Meteorological Society (PMS) Convention in March 2024 in Metro Manila to present their project.
3. The winners will receive the following cash prizes sponsored by the DOST-Science Education Institute (SEI), to wit:

First Place	Php. 20,000.00
Second Place	Php. 15,000.00
Third Place	Php. 10,000.00
4th to 10th place (Consolation Prizes)	Php. 5,000.00

Abstract Template

(Title, Calibri 14, Bold) Relationship Between Madden-Julian Oscillation (MJO) and Boreal Winter Tropical Cyclone Genesis and Tracks in the Western North Pacific

(Name of School and address, Calibri 12, Italic) Department of Physics, College of Science, Bicol University, Legazpi, Albay, Philippines

(Name of students [max of 5], Calibri 12) Jayra Emeryl A. Blanche, Maristalia Hannah N. Magpayo, Jim E. Espinola², Jerome E. Escarcha

(Name of coach [max of 2], Calibri 12) John Ruel L. Locaba

(Contact details, email and cellphone number, Calibri 12) jayraemerylarciga.blanche@bicol-u.edu.ph, 09569571821

(Abstract, no limit on the number of words, Calibri 11)

This study investigates the frequency of tropical cyclone (TC) genesis on various Madden-Julian Oscillation (MJO) phase pairs and the behavior of TC tracks in relation to MJO categories in the Western North Pacific (WNP) during the boreal winter months of ENSO-neutral years from December 1980 to February 2021. TC genesis frequency was quantified using Daily Genesis Rate (DGR). The results showed that TC genesis in the WNP during boreal winter was enhanced (suppressed) during the active (non-active) MJO phase. A probability density estimate of cyclogenesis location was performed using Kernel Density Estimation (KDE) to identify where the TCs mostly form. An eastward pattern in the cyclogenesis maxima was observed, corresponding to the propagation of MJO in the same direction. It started at 140°E (phases 4+5), peaked at 160°E (phases 6+7), and ended at 180°E (phase 8+1), which is when MJO decay happens over the Central Pacific. With three clusters separating the TC tracks, clustering analysis revealed that cluster 2 had the highest proportion of TCs in both the active and non-active MJO categories. It was also found that landfall activity occurred more frequently in the Philippines during the non-active MJO phase. The results of this study indicated that MJO had a significant impact on tropical cyclone frequency and behavior in the WNP.