SIXTEENTH CONGRESS OF THE REPUBLIC OF THE PHILIPPINES First Regular Session



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SENATE

s. No. 1582

REC'T DEV.

Introduced by Senator Manuel "Lito" M. Lapid

EXPLANATORY NOTE

The Philippines is an archipelago with more than 7,107 islands. Scientific data shows that most of these islands are of volcanic origin. There are 37 volcanoes, eighteen (18) of which are still active. The most well-known active volcanoes are Mt. Pinatubo, Mt. Mayon, and Taal Volcano, all located in the Luzon area.

We witnessed the devastating effects wrought by the eruption of Mt. Pinatubo in 1991. Volcanic eruptions claim countless lives and cost billions of pesos in property damage. Ash eruptions pose hazards to high-flying jet aircrafts while lava flows, toxic gas emissions, explosions, and mudflows pose a serious hazard to urban areas, transportation arteries, and agricultural communities.

Modern technology, such as on-the-ground geophysical monitoring networks and near real-time satellite data increases the probability of issuing warnings before eruptions. Early warnings hive emergency response agencies and the public time to prepare thus minimizing loss of or danger to life and property.

This bill seeks to establish a national volcano early warning and monitoring system to give emergency response agencies and the public time to prepare for eruptions . This will minimize potential damage to property and loss of life.

In view of the foregoing, approval of this bill is earnestly sought.

MANUEL "LITO" M. LAPID

Senator

SIXTEENTH CONGRESS OF THE REPUBLIC OF THE PHILIPPINES First Regular Session



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Introduced by Senator Manuel "Lito" M. Lapid

AN ACT ESTABLISHING A NATIONAL VOLCANO EARLY WARNING AND MONITORING SYSTEM

Be it enacted by the Senate and the House of Representatives of the Philippines in Congress assembled:

SECTION 1. Short Title. - This Act may be cited as the "National Volcano Early Warning and Monitoring System Act of 2013".

- **SECTION 2.** *Definitions.* When used in this Act, the following terms shall refer to the following
- (1) "Secretary" shall refer to the Secretary of the Department of Science and Technology (DOST).
 - (2) "Department" shall refer to the Department of Science and Technology.
 - (3) "Director" shall refer to the Director of the Philippine Institute of Volcanology and Seismology.
 - (4) "Institute" shall shall refer to the Philippine Institute of Volcanology and Seismology.
 - (5) "System" shall refer to the National Volcano Early Warning and Monitoring System established under Section 3(a)(l).

Monitoring System. - The Secretary shall establish a program within the Institute to be known as the "National Volcano Early Warning and Monitoring System" for the purpose of monitoring, warning, and protecting citizens from undue and avoidable harm from volcanic activity. As such, the System shall organize, modernize, standardize, and stabilize the monitoring systems of volcano observatories throughout the country. The System shall monitor all the volcanoes in the country giving each one attention commensurate to the threat posed. The System shall ensure the upgrade of existing

networks for monitored volcanoes and shall ensure the installation of new networks for volcanoes that are still unmonitored.

SECTION 4. System Components. - The System shall include the following:

- (A) A national volcano watch office that is operational twenty four (24) hours a day and seven (7) days a week;
 - (B) A national volcano data center; and
- (C) An external grants program to support research on volcano monitoring science and technology.

SECTION 5. *Modernization Activities.* - Modernization activities under the System shall include the comprehensive application of emerging technologies, including digital broadband seismometers, real-time continuous global positioning systems, radar satellite interferometry, and spectrometry to measure gas emission.

 SECTION 6. *Management.* - Not later than ninety (90) days after the effectivity of this Act, the Secretary shall submit to Congress a five year management plan for the establishment and operation of the System. The management plan shall include:

 (A) Annual cost estimates for modernization activities and operation of the System;

(C) Recommendations for establishing new or enhancing existing partnerships to leverage resources.

(B) Annual milestones, standards, and performance goals; and

SECTION 7. Advisory Committee. - The Secretary shall establish an advisory committee within the Department to assist in implementing the System. Such committee shall be composed of representatives of relevant agencies and members of the scientific community appointed by the Secretary.

SECTION 8. Partnerships and Coordination. - The Secretary may enter into agreements with universities and State agencies designating them as volcano observatory partners for the System. The Secretary shall coordinate activities launched pursuant to this Act with the heads of relevant government agencies, such as, the Secretary of Transportation and Communications, the Director-General of the Civil Aviation Authority, and the Administrator of the Philippine Atmospheric, Geophysical and Astronomical Services Administration.

SECTION	9.	Annual Report.	- The	Secretary	shall	submit	to	Congress	an
annual report outlining the activities carried out under this Act.									

SECTION 10. Appropriations. - The amount necessary to carry out the provisions of this Act shall be included and incorporated in the annual general appropriations of the Department of Science and Technology.

SECTION 11. Repealing Clause. - All laws, decrees, executive orders, rules and regulations, or parts thereof not consistent with the provisions of this Act are hereby repealed or modified accordingly.

SECTION 12. Separability Clause. - If any provision or part of this Act is held unconstitutional or invalid, the other parts or provisions not affected thereby shall continue to be in full force and effect.

SECTION 13. *Effectivity Clause.* - This Act shall take effect fifteen (15) days from the date of its publication in the Official Gazette or in at least two (2) newspapers of general circulation.

Approved,