I Mina'trentai Singko Na Liheslaturan Guåhan THE THIRTY-FIFTH GUAM LEGISLATURE Bill HISTORY 11/4/2020 10:56 AM

I Mina'trentai Singko Na Liheslaturan Guåhan BILL STATUS

BILL NO.	SPONSOR	TITLE	DATE INTRODUCED	DATE REFERRED	CMTE REFERRED	PUBLIC HEARING DATE	DATE COMMITTEE REPORT FILED	FISCAL NOTES	NOTES
372-35 (COR) As amended by the Committee on	Telena Cruz Nelson Amanda L. Shelton	AN ACT RELATIVE TO ESTABLISHING A TASK FORCE TO EXPLORE THE FEASIBILITY OF OBTAINING PARAMETRIC INSURANCE FOR THE REEF AND BEACH OF TUMON BAY AND TO FURTHER EXPLORE A PUBLIC-PRIVATE PARTNERSHIP TO EFFECTUATE THE SAME.	6/29/20 11:34 a.m.	7/10/20	Committee on Environment, Revenue and Taxation, and Procurement	8/4/20 9:00 a.m.	10/13/20 7:54 p.m. As amended by the Committee on Environment, Revenue and Taxation, and Procurement	Waiver: 7/13/20	
Procurement; and further	SESSION DATE	TITLE	DATE PASSED	TRANSMITTED	DUE DATE	PUBLIC LAW NO.	DATE SIGNED		NOTES
amended on the Floor	10/12/20	AN ACT TO ESTABLISH A TUMON BAY INSURANCE TASK FORCE TO EXPLORE THE FEASIBILITY OF OBTAINING PARAMETRIC INSURANCE FOR THE REEF AND BEACH OF TUMON BAY AND TO FURTHER EXPLORE A PUBLIC-PRIVATE PARTNERSHIP TO EFFECTUATE THE SAME.	10/19/20	10/19/20	10/30/20	35-107	10/30/20	Received: 10/30/20 Mess and Comm. Doc. No. 35GL-20-2394.	

CLERKS OFFICE Page 1

UFISINAN I MAGA'HÅGA OFFICE OF THE GOVERNOR



LOURDES A. LEON GUERRERO

Joshua F. Tenorio SIGUNDO MAGAILAHI + LIEUTENANT GOVERNOR

356L-20-2394

Speaker Tina Rose Muña Borneo

OCT 3 0 2020

October 30, 2020

HONORABLE TINA ROSE MUÑA BARNES

Speaker I Mina'trentai Singko Na Liheslaturan Guåhan 35th Guam Legislature Guam Congress Building 163 Chalan Santo Papa

Hagåtña, Guam 96910

Bill No. 372-35 (COR) - An Act to Establish a Tumon Bay Insurance Task Force to Re: Explore the Feasibility of Obtaining Parametric Insurance for the Reef and Beach of

Tumon Bay and to Further Explore A Public-Private Partnership to Effectuate the

Same

Dear Madame Speaker:

This Administration supports efforts to preserve and protect our natural resources, and among the most important of these is the coral reef that protects our seashores. As Lt. Governor Joshua F. Tenorio indicated in his written support, he is ready and willing to lead the task force called for in Bill No. 372-35. Just as we have supported efforts toward island beautification, the Guam Green Growth Initiative, and addressing climate change, we will dedicate the necessary time and resources to assessing the feasibility and benefits of parametric insurance. For these reasons, I have signed this bill into law as Public Law No. 35-107.

Senseramente.

LOURDES A. LEON GUERRERO

I Maga'hågan Guåhan Governor of Guam

Enclosure:

Bill No. 372-35 (COR) nka P.L. 35-107

cc via email: Sigundo Maga'låhen Guåhan

Compiler of Laws

I MINA'TRENTAI SINGKO NA LIHESLATURAN GUÅHAN 2020 (SECOND) Regular Session

CERTIFICATION OF PASSAGE OF AN ACT TO I MAGA'HÂGAN GUÂHAN

This is to certify that Bill No. 372-35 (COR), "AN ACT TO ESTABLISH A TUMON BAY INSURANCE TASK FORCE TO EXPLORE THE FEASIBILITY OF OBTAINING PARAMETRIC INSURANCE FOR THE REEF AND BEACH OF TUMON BAY AND TO FURTHER EXPLORE A PUBLIC-PRIVATE PARTNERSHIP TO EFFECTUATE THE SAME," was on the 19th day of October 2020, duly and regularly passed.

Speaker Attested: Legislative Secretary This Act was received by I Maga'hågan Guåhan this 194 day of lotors, 2020, at <u>5:43</u> o'clock .M. Maga'håga's Office APPROVED: Lourdes A. Leon Guerrero I Maga'hågan Guåhan Public Law No. 35 - 107

I MINA'TRENTAI SINGKO NA LIHESLATURAN GUÅHAN 2020 (SECOND) Regular Session

Bill No. 372-35 (COR)

As amended by the Committee on Environment, Revenue and Taxation, and Procurement; and further amended on the Floor.

Introduced by:

1

Régine Biscoe Lee
Telena Cruz Nelson
Amanda L. Shelton
Tina Rose Muña Barnes
Sabina Flores Perez
Clynton E. Ridgell
Joe S. San Agustin
Louise B. Muña
Kelly Marsh (Taitano), PhD
William M. Castro
James C. Moylan
Telo T. Taitague
Jose "Pedo" Terlaje
Therese M. Terlaje
Mary Camacho Torres

AN ACT TO ESTABLISH A TUMON BAY INSURANCE TASK FORCE TO EXPLORE THE FEASIBILITY OF OBTAINING PARAMETRIC INSURANCE FOR THE REEF AND BEACH OF TUMON BAY AND TO FURTHER EXPLORE A PUBLIC-PRIVATE PARTNERSHIP TO EFFECTUATE THE SAME.

BE IT ENACTED BY THE PEOPLE OF GUAM:

- 2 Section 1. Legislative Findings and Intent. I Liheslaturan Guåhan finds
- 3 that coral reefs provide a wide range of critical ecosystem services, including
- 4 provisioning services such as food production; regulating services such as storm

1 protection; economic services beneficial for fishing and tourism; cultural services

2 for recreational, traditional, and spiritual enjoyment; and supporting services that

include nutrient cycling and biological diversity. Together, these ecosystem services

provide the constituents of environmental and human well-being, including

5 livelihoods, health, safety, and security.

Coral reefs, which serve as natural breakwaters that provide flood reduction benefits through wave breaking and wave energy attenuation, have experienced significant damage around the world from coastal development, deforestation, sand and coral mining, overfishing and destructive fishing, as well as bleaching events and severe storms, both of which have become more frequent and severe as a result of climate change. The international scientific community, through the Intergovernmental Panel on Climate Change and other international bodies, has expressed grave concern about the current and future condition of coral reefs worldwide, and the loss of ecosystem services they provide.

According to the 2018 Guam Coral Reef Resiliency Strategy, Guam's coral reefs also face a bevy of threats from both local stressors and the global phenomena of climate change and ocean acidification. No less than one-fifth (1/s) of the island's reefs have already been lost, while over one quarter (1/4) of surviving reefs are in danger of imminent decline, as evidenced by downward trends in coral cover, coral recruitment rates, and fish biomass. In fact, both federal and local studies indicate that coral cover on Guam's seaward slopes has decreased by approximately eighty percent (80%) in the last half century, with mean coral cover declining from about fifty percent (50%) in the 1960s to ten percent (10%) since 2009. Several factors, including population growth, tourism, poor water quality, sedimentation, runoff, recreational activities and increased coastal development, have placed a great combined strain on the island's reefs in recent years. While our reefs have experienced degradation, certain chronic local stressors such as sedimentation

threaten the overall health of our reefs, impeding their ability to recover from events like coral bleaching and severe storms.

Catastrophic events such as hurricanes, cyclones, and typhoons can cause severe damages to reefs, resulting in the loss of anywhere between seventeen percent (17%) to sixty percent (60%) of live coral cover in a matter of hours. Therefore, in addition to reducing threats to reefs by improving water quality, it is critical to prepare to address these types of climate change-exacerbated catastrophes. Specifically, evaluations are currently underway in several countries (as well as multiple jurisdictions within the United States) for the feasibility of obtaining insurance for coral reefs and for building the capacity of governments to respond after a catastrophic event to repair and/or mitigate damage caused. Given the growing scientific consensus that climate change is exacerbating extreme weather events (e.g., by increasing the frequency and severity of storms), such jurisdictions are looking for new and innovative forms of insurance both to minimize the risk of loss caused by such events and to protect their natural assets in the long term.

I Liheslaturan Guåhan finds that an increasing number of jurisdictions are looking to parametric insurance, which is a form of insurance designed to pay a predetermined amount of money when a specific condition (or parameter) is met. Parametric insurance has three (3) components: (1) a parameter or threshold condition that will trigger the insurance; (2) a polygon that defines the limits where the parameter should occur; and (3) an amount that will be paid out. In short, an insurance payout is triggered when a selected parameter (e.g., wind speed) surpasses an agreed threshold (e.g., 100 knots) in a specified location (e.g., *Tumon* Bay).

The first jurisdiction in the world to have successfully established a system of parametric insurance to protect its coral reef was the State Government of Quintana Roo, Mexico. With the support of The Nature Conservancy (TNC), a global environmental organization with expertise in coastal risk and resilience as well as

1 natural infrastructure financing, the government obtained insurance to protect the \$12 billion dollar per year tourism industry that thrives along the beaches of 2 3 Ouintana Roo. The insurance covers over one hundred (100) miles of coastline, including several municipalities and their towns, namely, Cancún, Puerto Morelos, 4 Playa del Carmen, Tulum, and Cozumel. Substantiated by both the sound economic 5 6 valuation of the Mesoamerican Reef and the rigorous scientific evidence of the ecosystem services it provides, the state government, together with local hotel 7 8 associations and other third parties, established the Quintana Roo Trust for Coastal Zone Management, Social Development and Security. As of 2019, the Trust 9 10 purchased an insurance policy to cover coral reefs and beaches in the Quintana Roo 11 area against hurricanes above one hundred (100) knots (i.e., Category 3+ hurricanes). Under the policy, payouts for severe storms vary according to the 12 registered wind speed of any given storm, with a maximum payout (over a twelve 13 (12)-month period) of \$3.8 million dollars. Moreover, payouts will support 14 immediate reef repair efforts, which will be conducted by teams of specially trained 15 16 and equipped volunteers known as "reef brigades" that will be activated in the wake 17 of any catastrophic event.

The Quintana Roo Trust is an example of a successful public-private partnership that demonstrates how jurisdictions can insure coastal reefs that support tourism and provide critical ecosystem services for coastal communities and build the response capacity needed to address damages caused by catastrophic events, while also transferring the financial risk of damages from storms and providing long-term reef management and protection. It is, therefore, the intent of *I Liheslaturan Guåhan* to establish a task force to explore the feasibility of obtaining parametric insurance for the reef and beach of *Tumon* Bay, and to further explore a public-private partnership to effectuate the same.

Section 2. Tumon Bay Insurance Task Force.

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1	(a) The	Lieutenant Governor of Guam shall appoint a Tumon Bay						
2	Insurance Task Force (Task Force) consisting of:							
3	(1)	the Administrator of the Guam Environmental Protection						
4	Agency or his/her designee;							
5	(2)	the Administrator of the Guam Economic Development						
6	Authority or his/her designee;							
7	(3)	the Director of the Bureau of Statistics and Plans or his/her						
8	designee;							
9	(4)	the Director of the Department of Agriculture or his/her						
10	designee;							
11	(5)	the President/Chief Executive Officer of the Guam Visitors						
12	Bureau or his/her designee;							
13	(6)	the Executive Director of the University of Guam Sea Grant						
14	Program or his/her designee;							
15	(7)	the Director of the University of Guam Marine Laboratory or						
16	his/her designee;							
17	(8)	the Commissioner of Banking and Insurance of the Department						
18	of Revenue	and Taxation or his/her designee; and						
19	(9)	the Chairperson of the Legislative Committee with jurisdiction						
20	on environmental matters or his/her designee.							
21	The Lieutenant Governor shall invite members from the private sector to							
22	participate in the	Task Force, consisting of:						
23	(10)	the Chairperson of the Board of the Guam Chamber of						
24	Commerce or his/her designee;							
25	(11)	the President of the Guam Hotel & Restaurant Association or						
26	his/her designee; and							
27	(12)	the Director of The Nature Conservancy's Pacific Division.						

(b) The Task Force shall be under the direction of the Office of the Lieutenant Governor, who shall serve as its Chairperson.

- (c) The Lieutenant Governor may extend participation in the Task Force to members of the Guam Council on Climate Change Preparedness and Resiliency. The Lieutenant Governor may further extend participation in the Task Force to additional government agencies and private individuals and organizations to assist it in its exploration of the feasibility of obtaining parametric insurance for the reef and beach of *Tumon* Bay, and the further exploration of a public-private partnership to effectuate the same.
- (d) The Task Force shall produce a feasibility study in the form of a written report that includes, at a minimum, an assessment of the following:
 - (1) does the natural asset provide valuable ecosystem services; and if so, are they tangible and quantifiable with economic data;
 - (2) is the natural asset at risk from a catastrophic event; and if so, do damages caused by the event diminish its value and services;
 - (3) is the risk of the event insurable, and do catastrophe risk modelers have information to estimate its probability;
 - (4) is it possible to repair or mitigate the damages to the natural asset so that the services it provides can remain functional or be improved or recovered;
 - (5) is the cost of repairing the asset lower than the avoided losses;
 - (6) are there stakeholders interested in repairing the damages after an event:
- 24 (7) would those stakeholders be interested in transferring the risk 25 and not bear the cost of repair;

1	(8) do those stakeholders have the capacity to pay an insurance
2	premium; and if so, is there an appropriate institutional or financial
3	arrangement that convenes beneficiaries to buy the insurance;
4	(9) are those stakeholders legally entitled to buy the insurance for
5	the asset; and
6	(10) other factors that the Task Force deems reasonably appropriate
7	to consider in its discretion.
8	(e) The Task Force shall submit the report identified in Subsection (d) of
9	this Section to the Speaker of I Liheslaturan Guåhan no later than midnight on June
10	30, 2021.

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