

MINAMATA INITIAL ASSESSMENTS (MIAs) AN IMPORTANT STEPPING-STONE

FACILITATING CAPACITY-BUILDING WITH TECHNICAL ASSISTANCE AND TECHNOLOGY TRANSFER FOR MANAGING MERCURY IN THE CARIBBEAN INCEPTION WORKSHOP

27 JULY 2021



Minamata Initial Assessment (MIA)

Under the Minamata Convention on Mercury, it is recognized that the provision of financial support to developing countries will improve the effective implementation of the Convention's obligations.

A Minamata Initial Assessment is an enabling activity which assists countries in determining the requirements and needs for the ratification and/or implementation of the Minamata Convention.

Developed as a Global Environment Facility (GEF) enabling activity.

BENEFITS OF MIAS

Provides a starting point for addressing the national mercury situation in these countries

Increases data availability and allows comparisons on a national, regional and global scale

Gives countries confidence to ratify and/or implement to the Minamata Convention

Strengthens chemical management in the region

Opportunities for future work towards protecting health and environment in the Caribbean

The BCRC-Caribbean

in our role to serve the Caribbean region in meeting the obligations of the Minamata Convention on Mercury has acted as the Executing Agency/ Co-Executing Agency in 10 Caribbean countries for the completion of their MIAs.

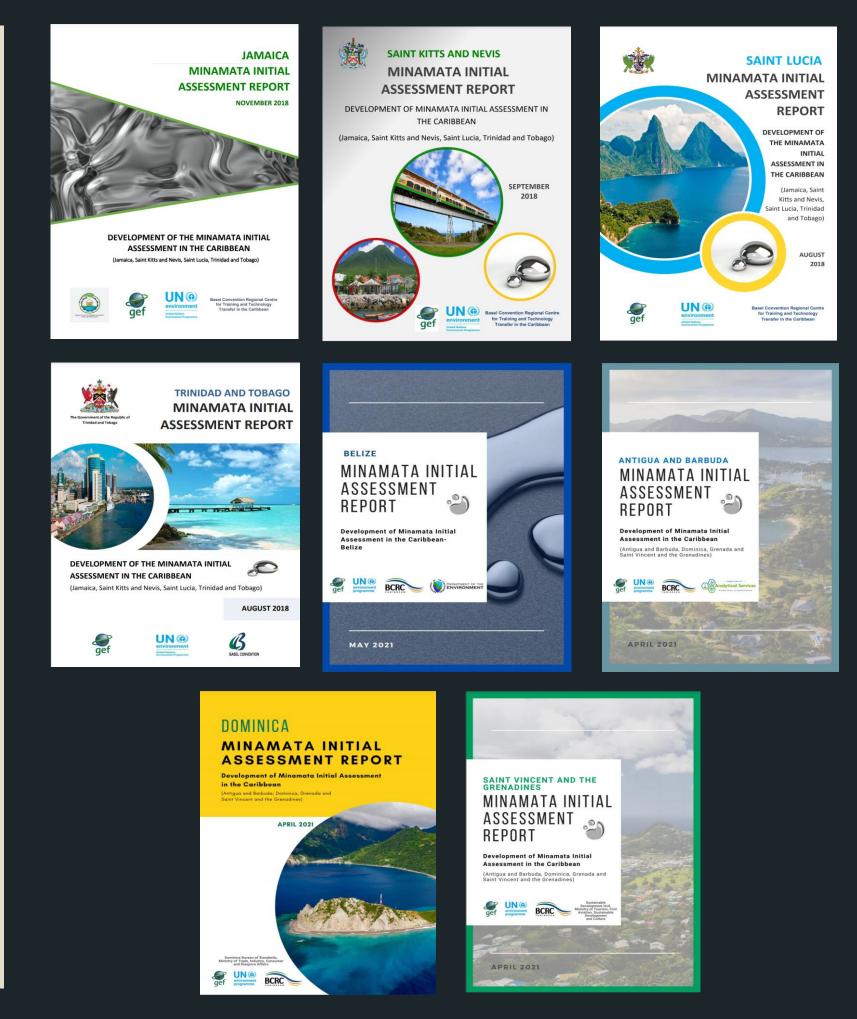
UNEP has acted as the Implementing Agency for these MIA Projects.

The Biodiversity Research Institute (BRI) was recruited as the Technical Experts for 9 of the MIAs conducted and built capacity for the BCRC-Caribbean to act as the Technical Expert in the 10th MIA.



- Jamaica (2018)
- Saint Kitts and Nevis (2018)
- Saint Lucia (2018)
- Trinidad and Tobago (2018)
- Belize (2021)
- Antigua and Barbuda (2021)
- Dominica (2021)
- Saint Vincent and the Grenadines (2021-ongoing)
- Grenada (ongoing)
- The Bahamas (ongoing)

NOTE: In the region, MIAs for Dominican Republic, Guyana and Suriname were conducted under other executing agencies and Cuba's is ongoing.



MIA OUTCOMES

INVENTORY OF MERCURY RELEASES

INSTITUTIONAL AND REGULATORY **ANALYSIS**

DEVELOPMENT OF A STRATEGY TO IDENTIFY MERCURY CONTAMINATED SITES AND VULNERABLE POPULATIONS

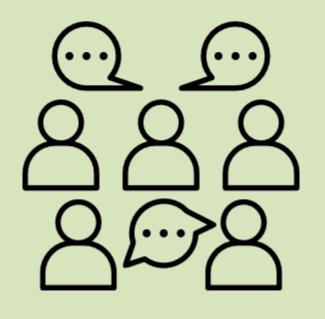








DEVELOPMENT OF COMMUNICATIONS STRATEGY



MIA Priorities for Action

Through MIA Projects, a baseline for furthering mercury management priorities was identified and funding opportunities were made available and more accessible: For example, the following projects were executed in the region based on MIA outputs:

- Fish Mercury Biomonitoring in the Caribbean Region
- Mercury Monitoring in Women of Child-Bearing Age from SIDS around the world • (Hair sampling)
- Identification of Feasible Strategies for the Environmentally Sound Disposal of Spent Lighting Products in the Caribbean



Some Related **MIA Outputs**

In addition to the MIA Reports, other outputs were developed under the MIA or related projects to further promote the need for building capacity for mercury management.

These included: **Assessment Reports Technical Briefing Documents** Awareness Raising Material



SAINT KITTS AND NEVIS National Assessment Report

for the Project "Identifying Feasible Strategies for the **Environmentally Sound Disposal of Spent Lighting** Products in the Caribbean (Saint Kitts and Nevis, Saint Lucia, Suriname and Trinidad and Tobago"

MARCH 2019



Mercury Free Society!

Global Health Trade-off for Mercury and Omega-3 in Seafood Blue highlights - seafood important for the Caribbean region. Blue underline - seafood that has been sampled in Antigua and Barbuda. Milligrams of Omega-3 Fatty Acids/4 Ounces of Cooked Fish					
- Total Mercury in Muscle Tissue µg/g (ww)	MEAL FREQUENCY RECOMMENDATIONS	<500 mg	500-1,000 mg	1,000-2,000 mg	> 2,000 mg
	Unrestricted meals (< 0.05 µg/g)	Catfish (temperate waters), Clams, Crab* (most species), Croaker, Haddock, Parrotfish, Scallops, Shrimp, <u>Tilapia,* Cockle</u>	Blue Mussels,* Pink Salmon, Sockeye Salmon	Coho Salmon, Oysters	Choices Sardines, Shad
	1-2 meals per week (0.05–0.22 µg/g)	Butterfish, Atlantic and Pacific Cod, Grenadier, Hake, Lionfish, Lobster,* Red Fish, Scad, <u>Snapper</u> , Sole	Atlantic Pollock, Bonito <u>Mahi Mahi</u> , Mullet, Squid, Skipjack Tuna, (light canned tuna)	Atlantic Horse Mackerel, Atlantic and Pacific Mackerel, Chinook Salmon,* European Sea Bass, Rays, Skates, Trout	Anchovies,* Atlantic Salmon, Herring
	1 meal per month (0.22–0.95 µg/g)	Catfish (tropical waters) Flounder, Grouper , Orange Roughy, Seabream	Amberjack, <u>Barracuda</u> , Bigeye Tuna, Bluefish, Croaker, Halibut, Jack, Tilefish, Trevally, <u>Yellowfin Tuna</u> , Wahoo, (white canned tuna ¹)	Albacore Tuna,* Atlantic Bluefin Tuna, Blackfin Tuna, Chilean Sea Bass, Spanish Mackerel, (white canned tuna1)	Mercby concentrations vary widelý across shark speciek
Ļ		King Mackerel Riskier Choices	<u>Marlin</u> , Sailfish	Dogfish, Ground, and Mackerel Sharks; Pacific Bluefin Tuna, Swordfish*	falesmmore, visit: www.briloon.org/kacenter
	Data Sources: BRI's Global Biotic N White canned tuna can be albacc		e; U.S. Environmental Protection Ag	gency; U.S. Food and Drug Admini	stration *Pictured

Monitoring Mercury-added Products in the Caribbean Regio SKIN LIGHTENING CREAMS AND COSMETICS



and Cos

Mercury (ng) is an ingredient used in According to the World ne some skin lightening or anti-aging soaps. Organization (WHO), the health aff and creams because mercury salts inhibit from the use of these products may ra the formation of melanin, the pigment from allergic reactions or skin irritation olor. Mercury is also added to the nervous system). some cosmetics, such as mascara, for its In addition to human health, the

Mercury in Skin Lightening Creams What are the Risks to Huma Health and the Environment

Mercury (Hg) is an ingredient used in According to the World Health some skin lightening or anti-aging soaps Organization (WHO), the health effects that gives human skin, hair, and eyes kidney damage or neurotoxicity (harm to

some cosmetics, such as mascare, for its properties as a preservative, preventing the growth of bacteria and fungi. A wide range of mercury levels are found in these products, and the amount of mercury is rarely disclosed to the consumer. contaminating the seafood we eat.

Duick Notes

The Minamata Convention or lercury requires Parties to phase ut the manufacture, import or port of skin lightening creams a metics > 1 ppm Hq by 2020

Many countries, such as the U and those in the EU, are working toward mercury-free alternatives

> Biodiversity Research Institure (BRI) partnered with BCRC-Caribbean to test skin lighteni creams sold in the Caribbean for mercury, in order to monitor numan exposure to the toxic element from the use of these products.



MIA Priorities for Action

Through MIA Projects, a baseline for furthering mercury management priorities is identified.

In the context of the Minamata Convention Specific International Programme Project "Facilitating Capacity-building with Technical Assistance and Technology Transfer for Managing Mercury in the Caribbean", the MIAs provided the basis for the identification of the institutional needs and capacity-building requirements of the Caribbean region as a whole.

THANK YOU!

BCR CARIBBEAN

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