GEO GS4M

The **Global Observation System for Mercury** (GOS⁴M) is **a GEO Flagship Program**. GOS⁴M provides a support infrastructure and an operational knowledge hub for scientific mercury data collected around the world.

GLOBAL OBSERVATION SYSTEM FOR MERCURY

GOALS

Working with world leading scientific experts GOS4M aims to:

Increase the availability of observational mercury data to everyone

Offer a support infrastructure for mercury monitoring data

Offer tools to enable quality control of incoming data

Harmonize monitoring protocols and metadata production

Collect, archive and share data

Collaborate with on-going monitoring networks

Develop an operational Knowledge Hub to support scientific and policy related needs for multilateral environmental agreements (e.g. the Minamata Convention on Mercury and the UN2030 Agenda for Sustainable Development).

GOS4M OFFERS:

The infrastructure to house mercury data from around the world from air, ocean and terrestrial ecosystems

To provide active links to existing data sets

The ability to access highquality comparable mercury concentration data

The ability to use the platform's data to calculate mercury processes such as deposition fluxes and Hg uptake by biota under different anthropogenic Hg emission scenarios

To employ validated mechanistic models to assess the fate of mercury in the atmosphere and oceans

To combine data from both scientific and policy regimes to provide scientific support to policy related questions through a fully integrated Knowledge Hub.

OUTCOMES:

The GOS4M Knowledge Hub will support decision-makers in the assessment of the effectiveness of measures by co-designing different policy scenarios at national or regional levels. infrastructure for knowledge generation to support the Minamata Convention on Mercury and the United Nations 2030 Agenda for Sustainable Development (SD).

It will permit the assessment of mercury fate, from sources to receptors, and estimate of costs associated with policies.

Global Observation System for Mercury (GOS4M) is a GEO Flagship aimed to provide an



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WHAT IS THE GOS⁴M KNOWLEDGE HUB

Our knowledge hub is a "one stop shop" where you can input data or digitally connect with other mercury research undertaken around the world. It is an integrated multi-domain computational system designed to link available mercury data and social science information

to provide accurate responses to policy relevant questions.

This platform can be used to characterize links between regulatory measures and their effect on human health and mercury contamination within ecosystems on different geographical and temporal scales.



BY JOINING YOU WILL:



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Join a community of like-minded researchers and participate in projects developed within the GOS⁴M envelope



Interact with policymakers and stakeholders at national/ international level



Be part of the governance of the GOS4M Flagship program

GOVERNANCE

The organizational structure of GOS4M is comprised of the following 3 Governing Bodies. Each Governing Body elects a Chair and three co-Chairs among their Members.

The Steering Committee leads the activities related to the GOS4M program and consists of one representative from each member country/organization

WWW.GOS4M.ORG











YOU CAN CONTRIBUTE BY:

Providing monitoring data or atmospheric and oceanic model output

Co-designing policy scenarios or socio-economic evaluations

Supporting the development & validation of tools for data analysis and virtual interactive tools for end-users

The Scientific Advisory Board counsels the steering committee on scientific and policy-oriented research. This board will be composed of distinguished scientists and technical experts

The Focal Points that ensure close cooperation between the GOS4M activities and the Regional GEOs' members of the GOS4M community