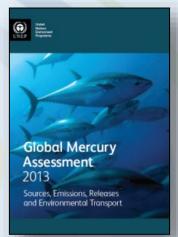


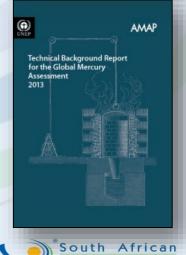
Mercury Research in South Africa Current Status

Lynwill G Martin (PhD)

Senior Scientist

Global Atmosphere Watch SA Weather Service (SAWS)



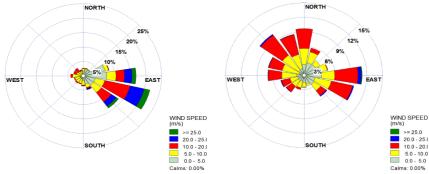




9001 Certified Organisation

Cape Point location, Location, LOCATION





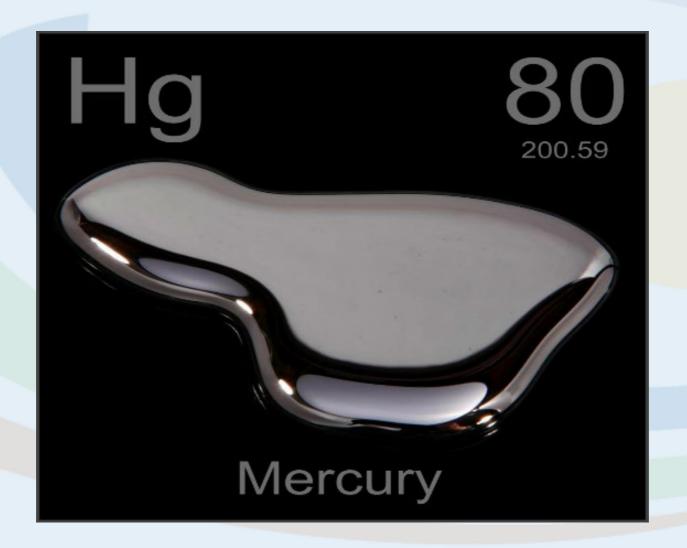
summer

winter





WHY MERCURY???





Cape Point Hg Results

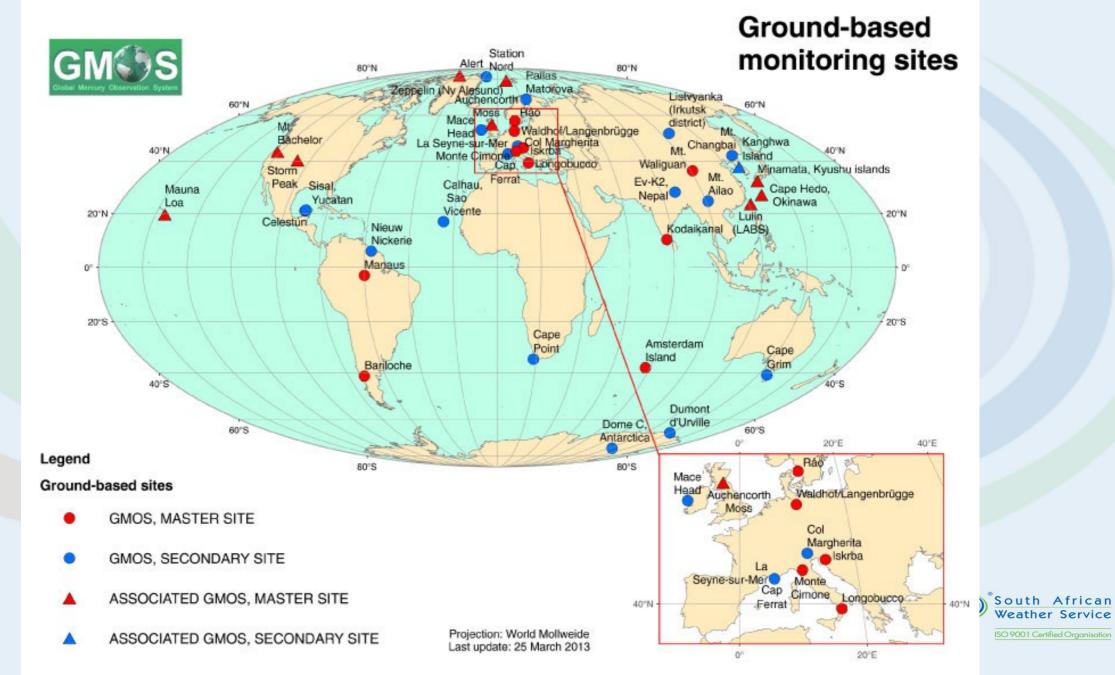


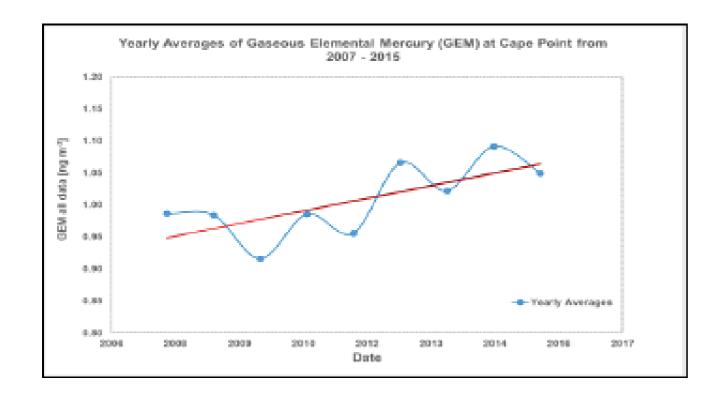












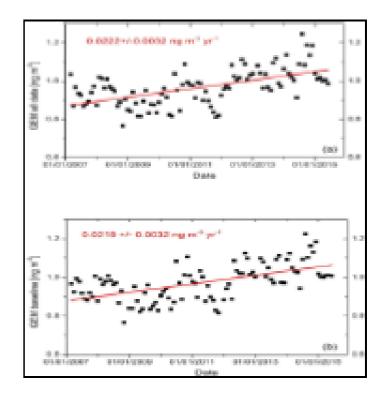
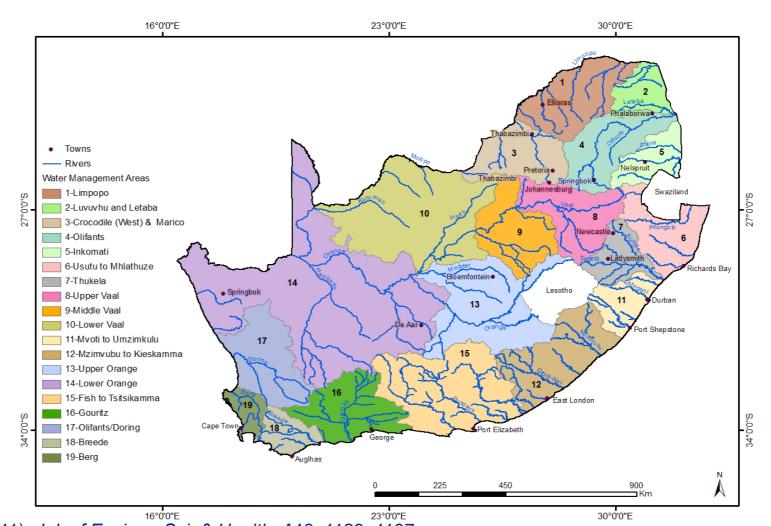


Fig. 3 (left) Yearly GEM averages 2007 – 2015 (right) monthly average GEM concentrations and their least-squares fit: upper panel – all data; lower panel – baseline data (i.e., only GEM concentrations at ²²²Rn concentrations ≤250 mBqm⁻³ baseline conditions). (Martin et al. 2017)

Mercury Research in SA by CSIR

- 19 WMAs
- □ National Survey conducted: 2007 2009
- □ Rivers close
 to likely Hg
 sources
 surveyed
- ☐ Get more info on state of aquatic ecosystem







Walters et al. (2011). Jnl. of Environ. Sci. & Health, A46: 1129–1137. Somerset et al. (2011). WRC Report No.1754/1/10.

Mercury Research by National Government (DEA) as Part of Ratification process

UNEP Toolkit level 1(2011)

The mercury release calculations used in this Toolkit are based on the mass balance principle:

Give you and idea of the Hg emissions sources but No info of Hg concentration levels in the environment which we need to know.

INVENTORY OF MERCURY RELEASES IN SOUTH AFRICA

PREPARED FOR THE



b



JUA ENVIRONMENTAL CONSULTANTS CC PO BOX 90002, GARSFONTEIN PRETORIA

2011





State of Mercury in South African Air for 2005 – 2015

Paper prepared for:

Department of Environmental Affairs

Directorate: Atmospheric Quality Information

Paper prepared by:

Dr. Lynwill G Martin

Date: September 2017



Mercury Research by National Government (DEA) as Part of Ratification process

UNEP LEVEL 2 TOOLKIT Final report due Apr 2018

MIA by the African Institute (GEF)
Oct 2016 – Sep 2018

Mercury Inventory in South Africa Using the United Nations Environmental Programme (UNEP) Toolkit Level II

Prepared For



Prepared By



AJUA Environmental Consultants CC Contact person: Prof OJ Okonkwo Tel: 082 840 9571

Email: jonathan@ajua.co.ca; unomaAO@hotmail.com

1st Draft Report UNEP Level 2 Toolkit Sep 2017

(September 2017)







15TH ICMGP coming to
CAPE TOWN | SOUTH AFRICA
11-16 JULY 2021



Theme: From Minamata to Africa and beyond



Addressing Mercury challenges in Global Environmental Change

15th INTERNATIONAL CONFERENCE ON MERCURY AS A GLOBAL POLLUTANT

Cape Town | South Africa | 11 - 16 July 2021

Logo & Theme

a droplet of quicksilver, the historic name for mercury.

★ and "Cape Town" equates to the colour of the clear blue skies and oceans at the tip of Africa, the meeting place for experts to share global Hg matters.

the warm Agulhas & cold Benguela currents, with directional flows from north to south and south to north, respectively, which also signifies the "north-south-north interactions" of the mercury legacy of the conference in Cape Town.

★ the location of the Global Atmospheric Watch Station at Cape Point where mercury is measured, and where tourists mistakenly think the "two oceans meet".

Hg the element symbol for mercury is placed in the ocean, as the ocean is a sink for this ubiquitous trace metal.

Hg, "ICMGP" and "2021" represents the colour of quicksilver / mercury, for the conference to be held in 2021.





