IPSSC + CMBO

STUDENTS' CONFERENCE
Jožef Stefan International Postgraduate School
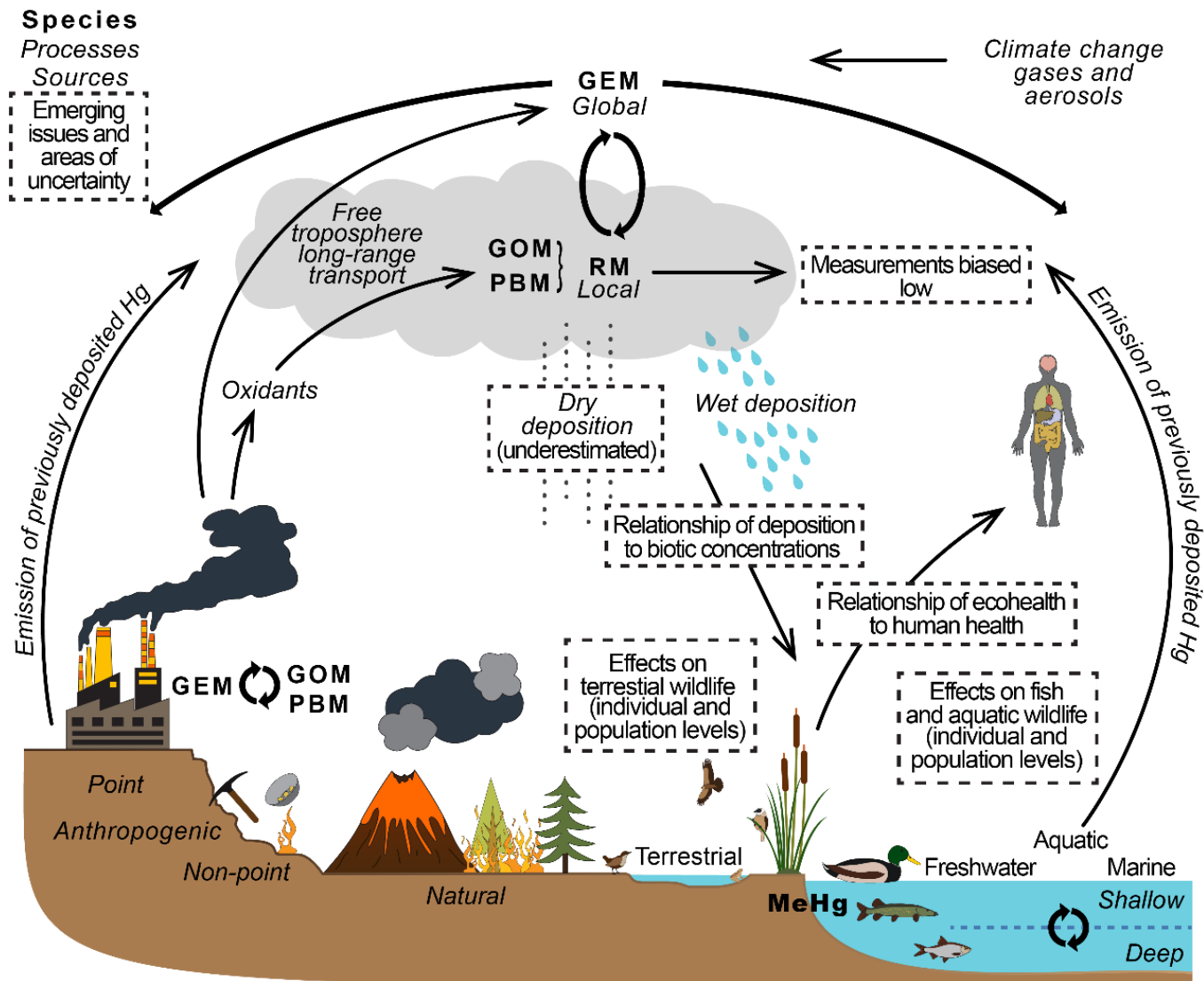and Young Researchers' Day CMBO
19 and 20 April

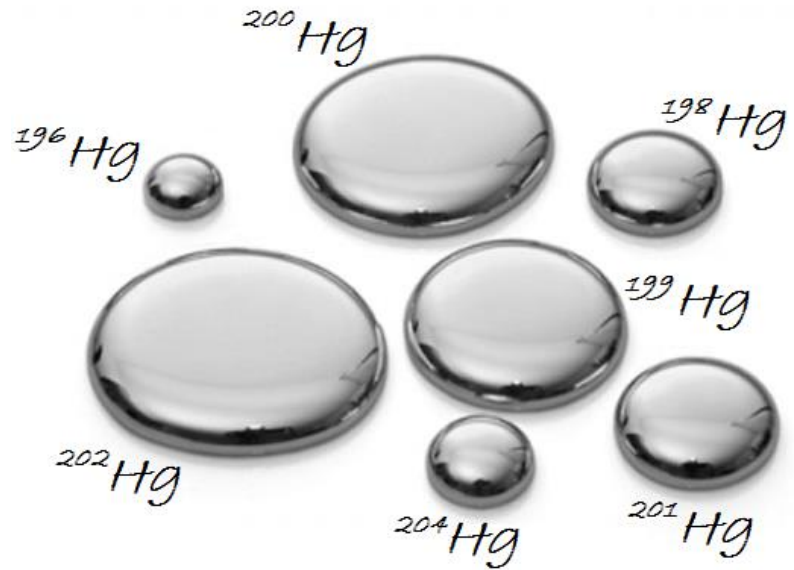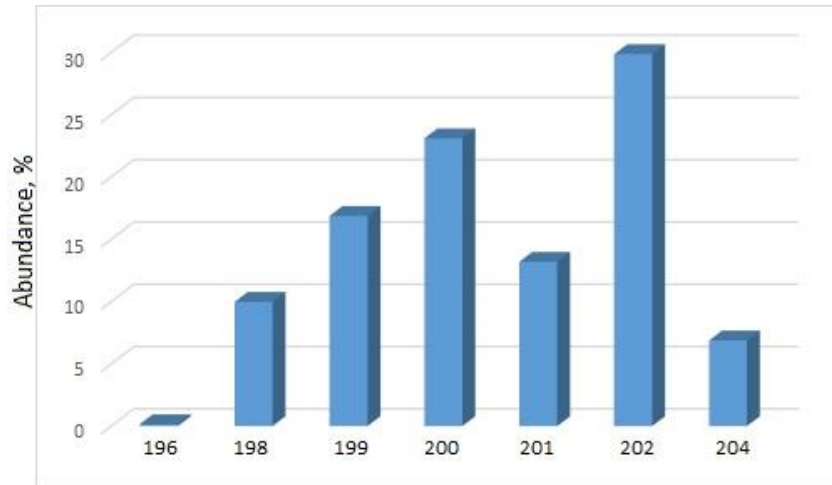# Mercury stable isotopes – the tool for pollution tracing

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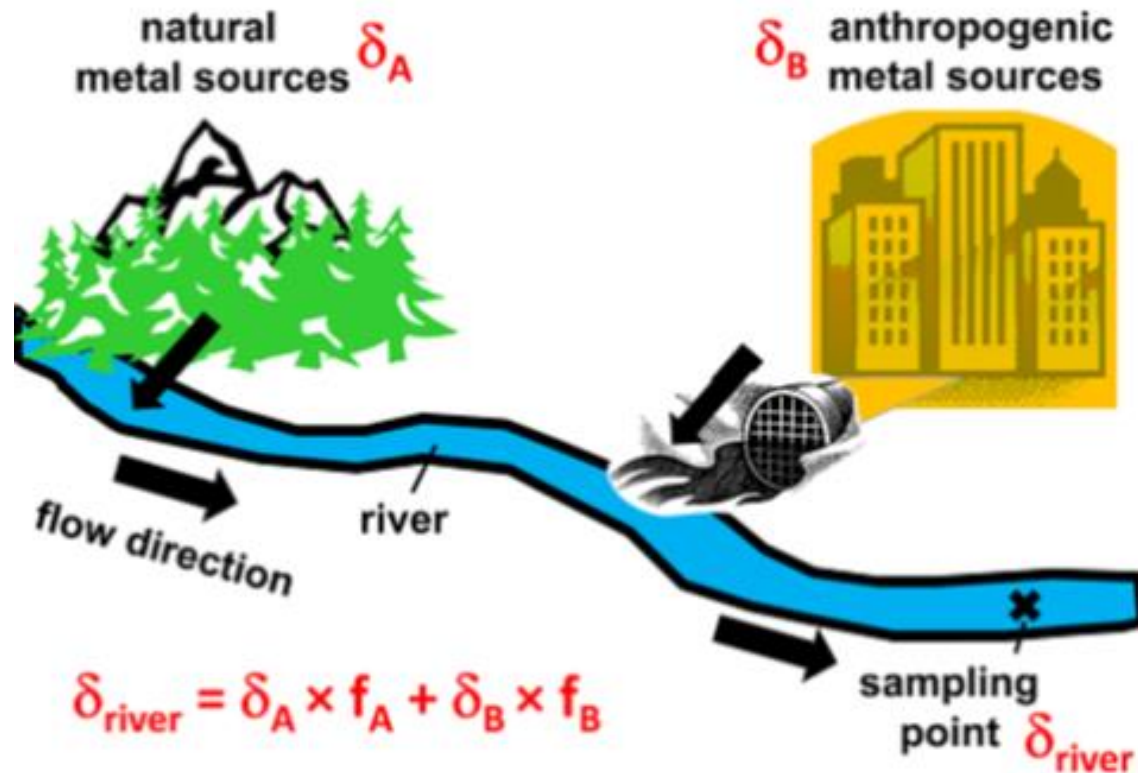
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Mercury biogeochemical cycle

[Adopted from Gustin et al., 2016]

Mercury stable isotope ratios

$$\delta^{xxx}Hg = \left(\frac{\left(^{xxx}Hg / ^{198}Hg\right)_{sample}}{\left(^{xxx}Hg / ^{198}Hg\right)_{std}} - 1 \right) \times 1000 \ (‰)$$

Mercury stable isotope ratios: application

$$\delta_{river} = \delta_A \times f_A + \delta_B \times f_B$$

Idrija mercury mine