

Isotope hydrology:

Water resources assessment

and management

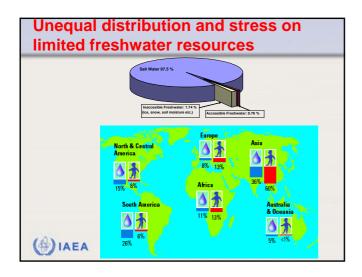


Luis Araguás

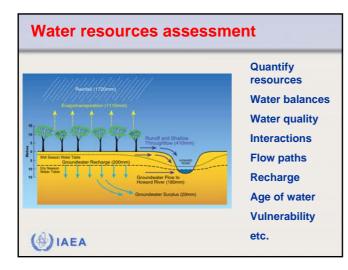
Isotope Hydrology Section

International Atomic Energy Agency

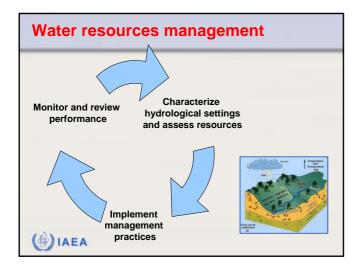
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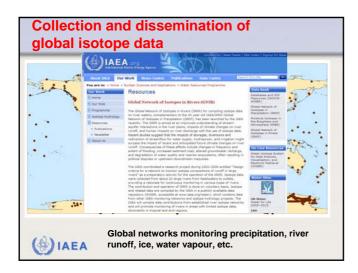




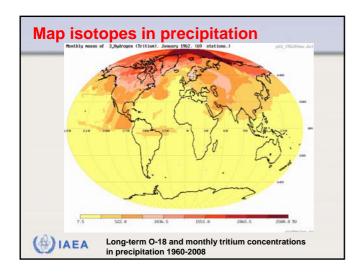
Programme vision

The Water Resources Programme assists Member States in <u>assessing and managing</u> their water resources in all aspects, with <u>isotope hydrology</u> as an integral part of their scientific and institutional strengths, and it is a premier programme within the UN system

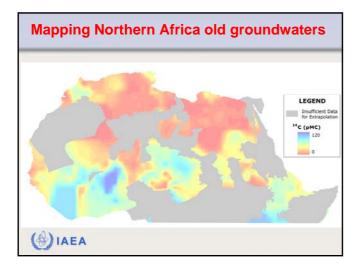




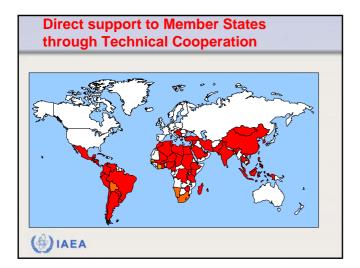
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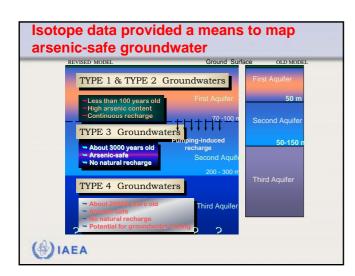
Mitigation of arsenic contamination of groundwater in Bangladesh

Millions exposed to arsenic in groundwater with serious health risks

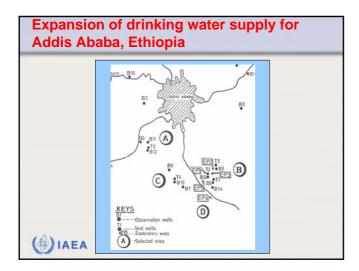
Isotopes established natural, pre-irrigation origin of arsenic poisoning, and helped to locate arsenic-safe water

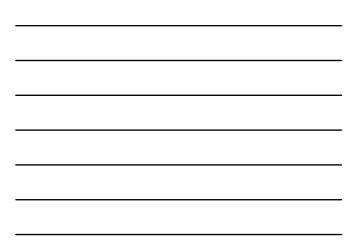
Influenced government's policy on protecting and managing clean, deep groundwater

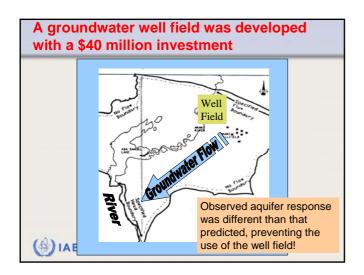
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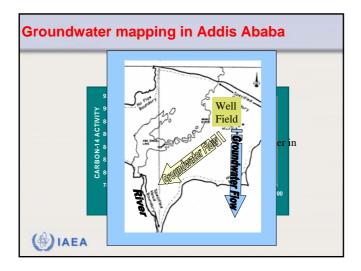














Guarani transboundary aquifer

- Largest aquifer in the Americas
- Shared by Argentina, Brazil, Paraguay and Uruguay → 1,200,000 km²
- Goal: developing a common institutional framework for managing and preserving the Guarani Aquifer.

