



ARCTIC OCEAN
SCIENTIFIC ADVENTURES

EDUCATIONAL
PACKAGE

NO.02

General concepts
of the Arctic Ocean



Hints

Don't write too big or
you will not have
enough space to clearly
identify all of the
elements.

THE ARCTIC AND ME

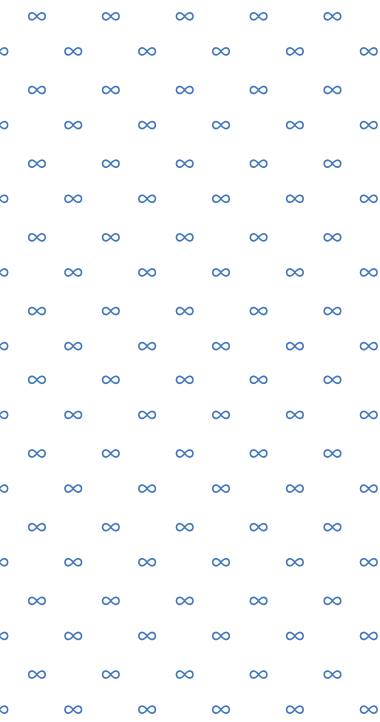
What is the polar amplification?
Explain the phenomenon.

2. Who sees opportunities
associated with the melting of
the Arctic ice cap? What are
their arguments?

3. What are the two principal
causes of rising sea levels?

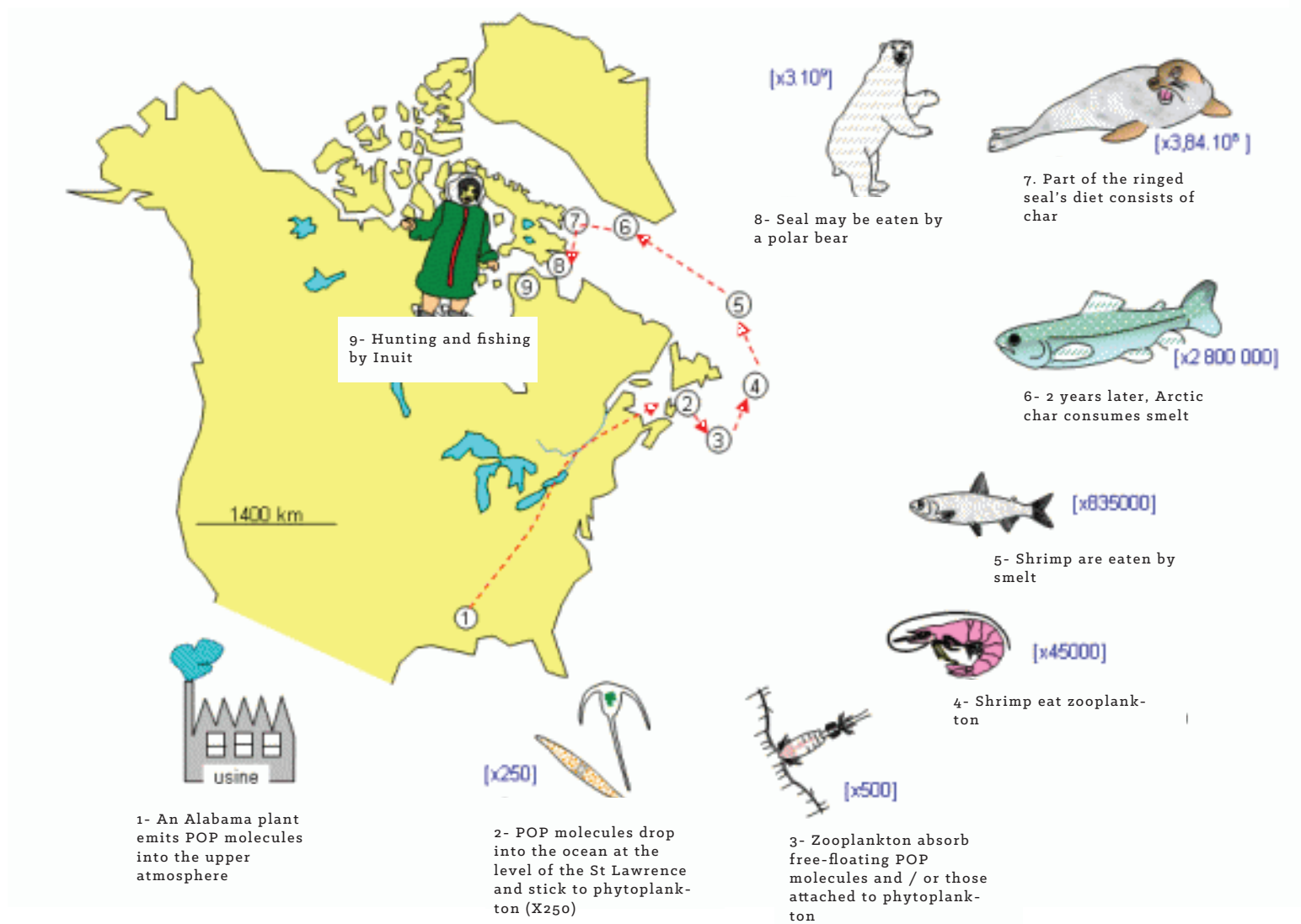
4. Melting of the sea ice has
important consequences for the
native Inuit population and
animals. Provide an example for
each.

5. Inuits live thousands of
kilometers from large metropol-
itan areas. Will they be affected
by chemical products? Illustrate
this phenomenon through
discussion of the food web.
Refer to the following terms:
persistent organic pollutants
(POP), phytoplankton,
zooplankton, small predators,
large predators, humans.



Title : Map of Bioaccumulation of POP

Scenario explaining the bioaccumulation of POPs (persistent organic pollutants) in the trophic levels of a food chain resulting in consumption by Inuit
Red arrow: progression of the molecule ($\times 1000$) = concentration of POP / initial concentration.



source: <http://www.intellego.fr/soutien-scolaire--/aide-scolaire-svt/-schema-de-la-bioaccumulation-d-un-pop--polluant-organique-persistant--dans-les-niveaux-trophiques-d-une-chaine-alimentaire--aboutissant-aux-inuits/37177>