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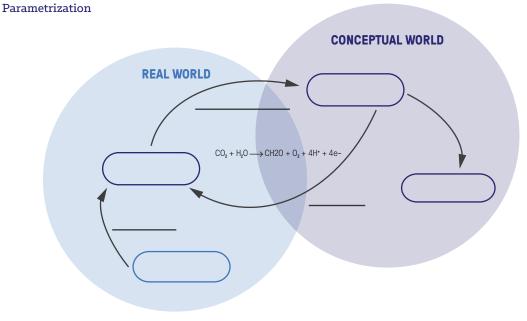
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Mathematical models

GENERAL NOTIONS

Complete the drawing using the following words to describe a mathematical model.

ModellingPredictionsDescriptionPhenomenonObservationsValidation



Complete the following sentence

conditions model theory predicts representation observations phenomenon

A is a simple of a complex . It allows elaboration of a based on and what would happen under certain .

MODELLING IN THE GREEN EDGE PROJECT

Why use models in the GreenEdge mission?

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What are the 4 major components studied in modelling natural science processes in the GreenEdge project?

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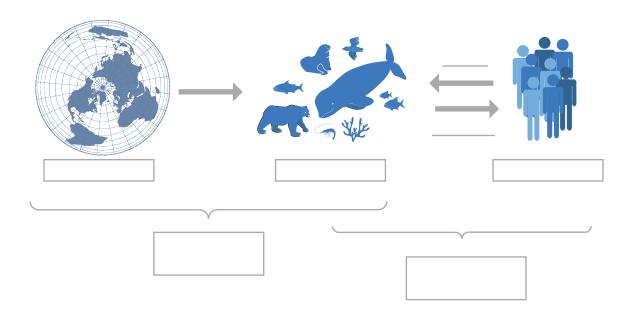
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Mathematical models

Caption this drawing with the following words

- Arctic species
- Harvest
- Human health
- Environment
- Resources
- Food security models

• Ecosystem modelling



ARCTIC ECOSYSTEM MODELLING

In order to model the Arctic ecosystem, scientists use coupled biological physical models.

What is the major objective of biological models in GreenEdge?

Why couple these two types of models?

Physical models developed in GreenEdge are validated using observational data collected in the field using different instruments.

Match each instrument to its definition.

Measures speed current

CTD probe



Measures water turbulence

Current meter (ADCP)



SCAMP



Measures conductivity, temperature and depth \blacksquare

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Mathematical models

FOOD SECURITY MODELS

The aim is to develop a participative model connecting environmental changes with food security and health issues among Inuit populations.

hat are the interests of this kind of project ?	hat is a "participative r	noder :				
	hat are the interests of	this kind of proj	iect?			
				3.		

