

Slides used in the 6th evaluation committee: interim report session

(March 2, 2006, at Lecture Room in RIHN)

Interim Report 5-2 IDEA Project

Interactions between the environmental quality of a watershed and the environmental consciousness:

With reference to environmental changes caused
by the human use of land and water resources

reported by
5-2 IDEA project leader: Takahito YOSHIOKA

Research axis 5 Conceptual framework for global environmental issues

Theoretical and empirical analysis for building conceptual
framework of global environmental issues.

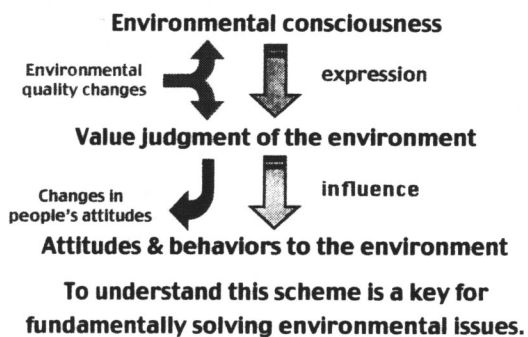
5-2 IDEA project:

Environmental consciousness

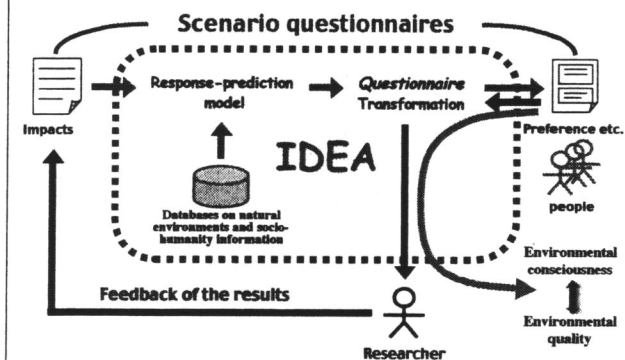
Value judgment of the environment

Sense of value for the environment
Environmental valuation

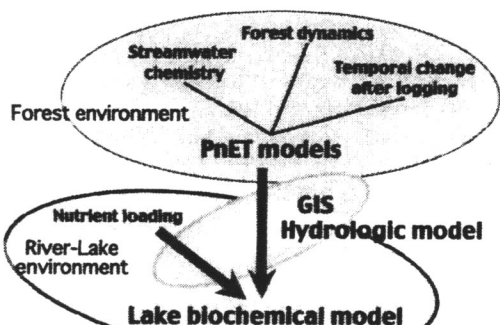
Hypothesis



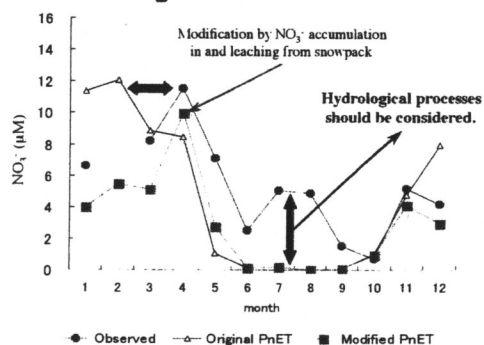
Framework of the methodology



Response-prediction model



Simulation of stream NO_3^- using PnET-CN model

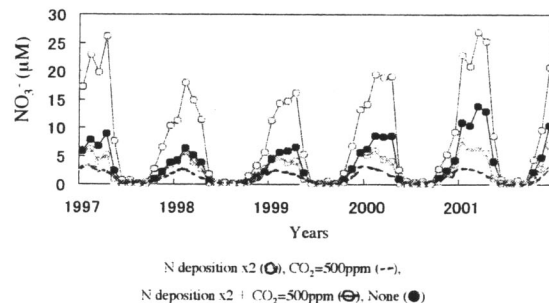


Improvement with the hydrological sub model

Monthly stream NO_3^- concentration in a forested catchment

Default parameter setting of the PNET-CN

Combined with the Hydrologic Cycle model



Survey on people's interests in a forest-agricultural-aquatic ecosystem

Objectives:

- 1. To set virtual impacts used in scenario questionnaires**
- 2. To obtain information for preparing scenario questionnaires**
- 3. To understand the background of people's interests**

Procedure of the survey

Preparation of the questionnaire was done using a traceable way, in order to assure a versatility and applicability to other environments and stakeholders.

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A matrix of land cover/use, values, and human activities for preparation of interest survey

Value	Forest	Agriculture	Aquatic	Environment sampler
Direct value	Direct use values			Direct sample
Indirect value	Indirect use values ecosystem functions			Indirect sample
Human activities	Human activities			Human activities

Preparation of the questionnaire

Overview of the interest questionnaire

- Survey Area: Japan
- Subject: Interests in watershed environments
- Number of questions: 30 (95 items)
- Samples: Japanese nationals between 20 and 79 years old
- Sample size: 1,800
- Sampling: Two-stage stratified sampling
- Frame of sampling: Basic resident register and electoral register
- Mode of survey conduction: Face-to-face interview method
- Survey period: From 2005/10/14 to 2005/11/14
- Number of completed responses: 886 (Response rate: 49.2%)

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