Deflected succession

Habitat modification

Host-plant density & distribution

Host fly
*Tephritis conura*

Seed herbivory

Marsh thistle *Cirsium palustre*

Parasitoid wasp
*Pteromalus elevatus*
Stocks

Domestic Environment

Economic Processing

DE = domestic extraction
DMI = domestic material input
DPO = domestic processed output

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DMI = domestic material input
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DMC = domestic material consumption = DMI - exports

Imports

Immigrants

Air, Water

Water Vapour

Exports

Emigrants

Economic Processing

Stocks

Domestic Environment
Ecosystem service ‘cascade’ (after Haines-Young & Potschin, 2009)
Models
Tipping Points in the Earth System

Consequences on Ecosystems and Society

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The 4th ALTER-Net Summer School
05.–17.09.2009, Peyresq, France
"Biodiversity and Ecosystem Services"
Science-policy interface

The Convention on Biological Diversity (CBD)

Convention on Biological Diversity

Conference of Parties* (CoP)  Secretariat in Montreal

Subsidiary Body on Scientific and Technical Advice (SBSTA)

- Setting targets and pathways
- Producing a Global Biodiversity Outlook
- Defining indicators
- Developing the Ecosystem Approach
- ............

*Most delegates are legal experts

Environmental Systems Analysis
Strengthening Science-Policy Interface on Biodiversity and Ecosystem Services

Scientific knowledge on the links between biodiversity, ecosystem services and human well-being has increased significantly since the Millennium Ecosystem Assessment was completed. There is however a need for a stronger international science-policy platform to enable emerging scientific knowledge to be translated into specific policy action at the appropriate levels.

The current science-policy interface for biodiversity and ecosystem services comprises a number of national and international programmes, organizations, mechanisms, and processes. The biodiversity and ecosystem-related multilateral environmental agreements for example contain provisions on scientific and technical cooperation. Their contribution to policy making at the appropriate levels could however be strengthened further if were a mechanism that could provide a scientifically sound, uniform and consistent framework for tackling changes to biodiversity and ecosystem services.
Capercaillie puts a spoke in the wheels of mountain bikers

Scotland's Capercaillie Conservation Network has been campaigning against plans to extend mountain bike trails into the Cumbernauld National Park, near Glasgow, to create a new mountain bike trail network. The Capercaillie Conservation Network is concerned about the impact of the trails on the local wildlife, particularly the rare Capercaillie, which is almost extinct in Scotland.

Capercaillies, right, are almost extinct in Scotland, although a single female may be living in Glencoe. The decision to extend the trails has been opposed by the Friends of the Forest, a local cycling group, which has argued that the trails will damage the environment and the wildlife. The Capercaillie Conservation Network believes that the trails will be detrimental to the local wildlife and is calling for a halt to the development.

The decision to extend the trails has been met with opposition from local residents and wildlife enthusiasts. The Capercaillie Conservation Network is concerned that the trails will damage the environment and the wildlife, and is calling for a halt to the development.

Scotland is ranked alongside Montana and Alaska as a choice destination for mountain bikers. Bikers reason to seek out the remote trails for the full experience of nature, but the Capercaillie Conservation Network believes that the trails will be detrimental to the local wildlife and is calling for a halt to the development.

The Capercaillie Conservation Network is concerned that the trails will damage the environment and the wildlife, and is calling for a halt to the development.
Peyresq summer schools