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Model (Nakayama and Watanabe, 2004) ""; "3.1.1. Biophysical and Soil Moisture Models ""; "3.1.2. Groundwater Model ""; "3.1.3. Surface Hydrology Model ""  
"3.1.4. Integration of Models ""3.2. Model Description of NICE-SNOW (Nakayama and Watanabe, 2006) ""; "3.2.1. Effect of Micro-Topography and Meteorology on Snow and Frost Depth"; "3.2.2. Modeling of Phase Changes in Unsaturated Layer"; "3.2.3. Estimation of Frost and Thaw Depth by the Stefan Solution"; "3.2.4. Two-Layer Surface Runoff Model Including Frost/Thaw Processes"; "3.3. Model Description of NICE-MASS (Nakayama, 2007a) ""; "3.3.1. Expansion of the NICE Model To Mass Transport Process"; "3.3.2. Theory of Estimating Suspended Sediment (SS) Loads in Rivers"  
"3.4. Model description of NICE-VEG (Nakayama, 2008a, 2008b)  
"3.4.1. Vegetation Succession Model"; "3.4.2. Integration of Models"; "4. DATA AND BOUNDARY CONDITIONS FOR SIMULATION"; "4.1. Input Data"; "4.2. Observation for Calibration and Validation"; "4.3. Estimation of Heat Flux Budgets from Meteorological Data"; "4.4. Vegetation and Soil Properties"; "4.5. MODIS Data"; "4.6. Running the Simulation"; "5. RESULTS"; "5.1. Hydrologic Budget in Snow-Free Periods"; "5.1.1. Soil Moisture in Various Land Covers"; "5.1.2. Soil Temperature and Heat Flux Budget"  
"5.1.3. Groundwater Levels"; "5.1.4. River Discharge"; "5.1.5. Soil Moisture Changes (Drying) from 1977 to 2001"; "5.2. Hydrologic Budget in Snow Periods"; "5.2.1. Effect of Micro-Topography and Land Cover on Snow Depth and Soil Frost"; "5.2.2. Soil Moisture and Groundwater with Phase Changes"; "5.2.3. Surface Runoff Process Including Snowmelt Period"; "5.3. Geomorphic Changes in the Catchment"; "5.3.1. Characteristic of Suspended Sediment Load in Different Seasons"; "5.3.2. Elevation Changes by Sediment Accumulation in Mire"  
"5.3.3. Relation between Hydrologic/Geomorphic Changes and Alder Invasion"; "5.4. Vegetation Succession Process in the Catchment"; "5.4.1. Evaluation of Ecohydrological Characteristics in the Mire"; "5.4.2. Reproduction of the Drying Phenomenon and Alder Invasion in the Mire"; "5.5. Future Forecast in the Mire"; "5.5.1. Effect of Re-Meandering of Channelized Rivers on Hydrologic Budget in Mire"; "5.5.2. Forecast of Vegetation Change in Mire by Re-Meandering of Channelized Rivers"; "6. DISCUSSIONS"  
"6.1. Drying Phenomena and Vegetation Change Caused by Invasion of Alder"

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## Sommario/riassunto

The world's major river systems are storehouses of biological productivity and diversity. Rivers and their floodplains provide habitat for aquatic and terrestrial species. This work looks at what happens when these environments become polluted, and what can be done about it.

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