

Evaporation from northern watersheds

An outline of the synthetic paper

1. Introduction
 - 1.1. Clarification of the process
 - 1.2. Specialties for the areas: open water, land surface (non-vegetated, vegetated).
2. Overview of methods and techniques
 - 2.1 Direct methods
 - lysimeter/eddy correlation/soil moisture budget
 - 2.2 Indirect methods
 - Bowen ratio/energy balance/water balance as residual
 - 2.3 Calculation methods
 - Priestly-Taylor/Penman-Monteith/Budyko-Zubenok/Makkink
 - 2.4 Calculation of snow evaporation (including intercepted snow)
 - 2.5 Error analysis [including weaknesses/strengths of methods]
Include suggestions for modelers for reference ET (an analog for PET, by vegetation/landscape type such as short grass – Hasholt [Holst Kristensen Model])
3. Spatial and temporal variability
 - 3.1 Spatial (geographical)
 - Land type/topography/vegetation (determined either land-based or by aircraft)
 - Relationships with soil moisture and ground water level
 - 3.2 Temporal (seasonal, inter-annual)
4. Summary of regional evaporation rates
5. Conclusions