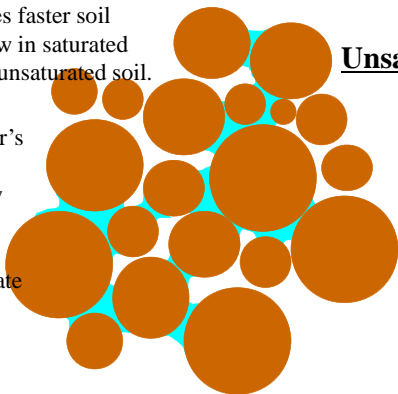


# SCHEMATIC DIAGRAM OF SOIL PARTICLES

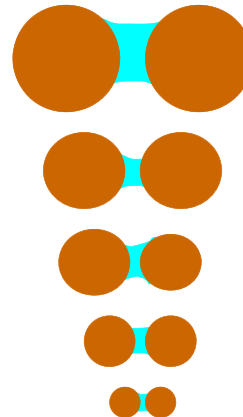
~10<sup>3</sup> times faster soil water flow in saturated soil than unsaturated soil.

↓  
Soil water's speed is very slow until reaching groundwater table.



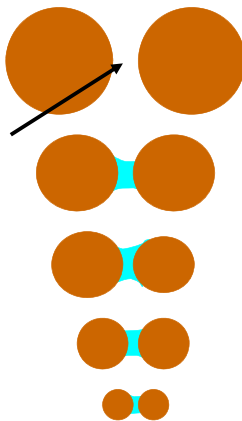
Unsaturated

## HOW SOIL WATER HELD WITHIN THE CAVITY IS EXTRA

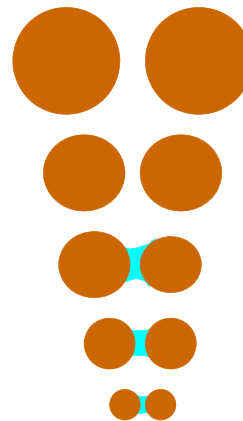


## HOW SOIL WATER HELD WITHIN THE CAVITY IS EXTRA

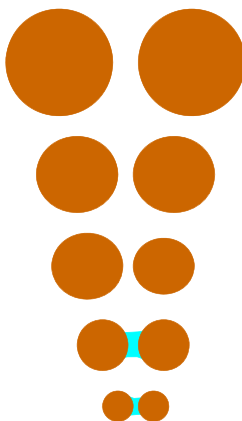
Soil water that can be easily extracted by gravity immediately after rainfall



## HOW SOIL WATER HELD WITHIN THE CAVITY IS EXTRA

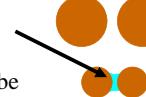


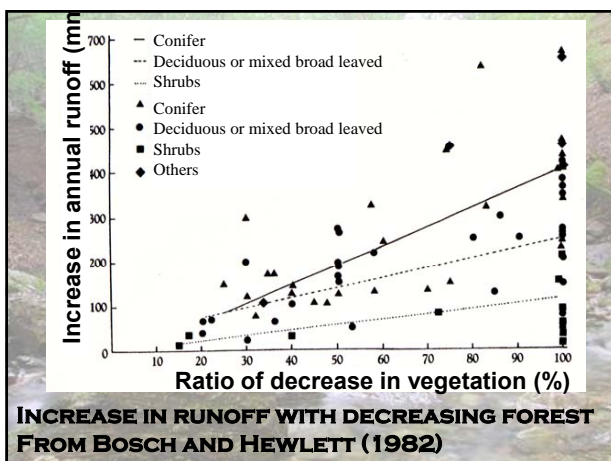
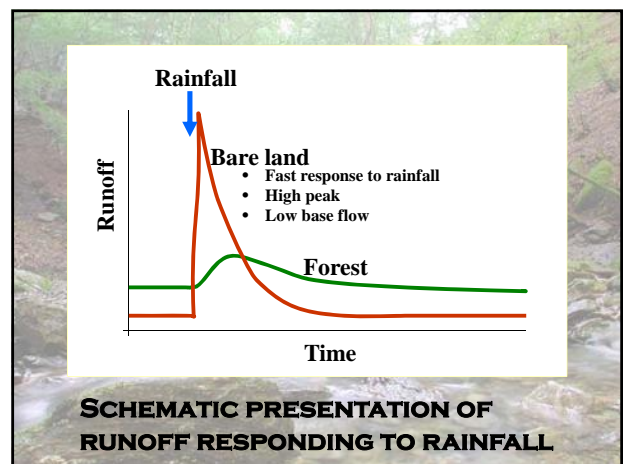
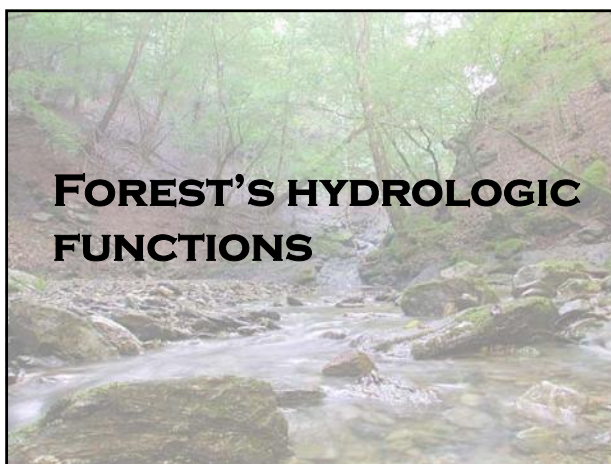
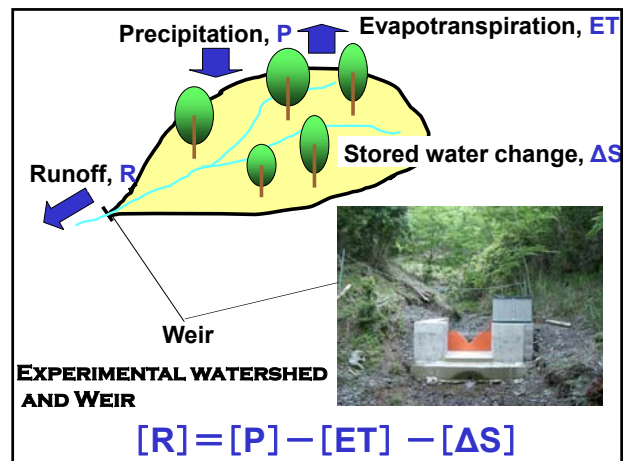
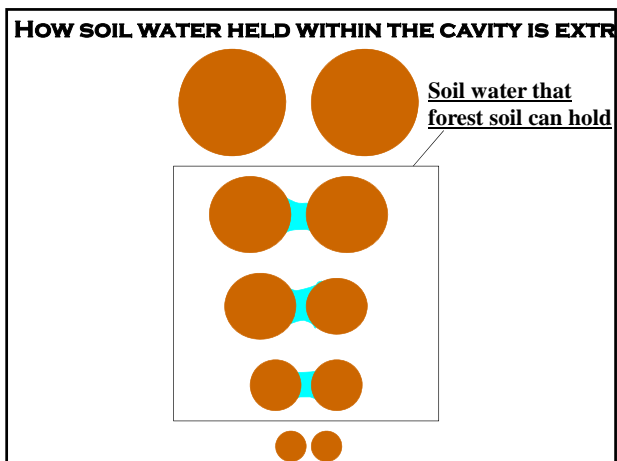
## HOW SOIL WATER HELD WITHIN THE CAVITY IS EXTRA



## HOW SOIL WATER HELD WITHIN THE CAVITY IS EXTRA

Soil water almost impossible to be



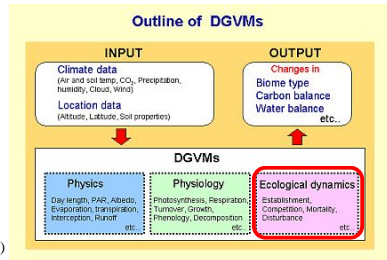


- Forests do not make water. Rather, they reduce it.
  - Forests gently release water.
  - There is runoff without rainfall.
  - Forest looks like a dam, but
- This is **CONDITIONAL**.

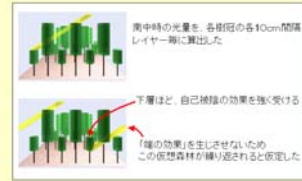


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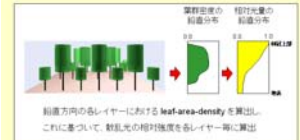
Sato et al.  
(2007, *Ecol. Model.* 200, 279)



木本PFTsの光合成条件 (面接光)

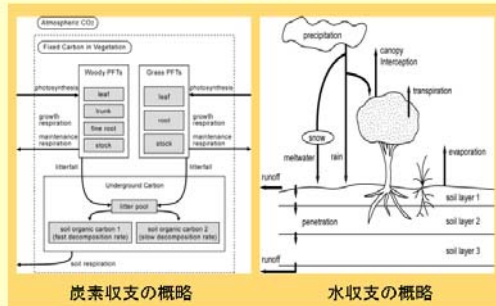


木本PFTsの光合成条件 (散乱光)



**SEIB-DGVM WebSite**  
<http://seib-dgvm.com/index.html>

炭素と水の収支

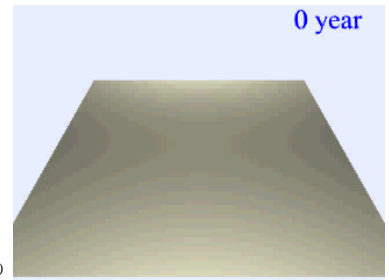


**SEIB-DGVM WebSite**  
<http://seib-dgvm.com/index.html>



**Dr. Hisashi SATO**  
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Sato et al.  
(2007, *Ecol. Model.* 200, 279)



Malaysian tropical rainforest (1 ha)