

Hydrologic Cycle

The hydrologic cycle is a continuous process by which water is transported from the oceans to the atmosphere to the land and back to the sea.

The subsystems are :

- Precipitation
- Evaporation
- Evapotranspiration
- Infiltration
- Overland flow
- Stream flow
- Groundwater flow

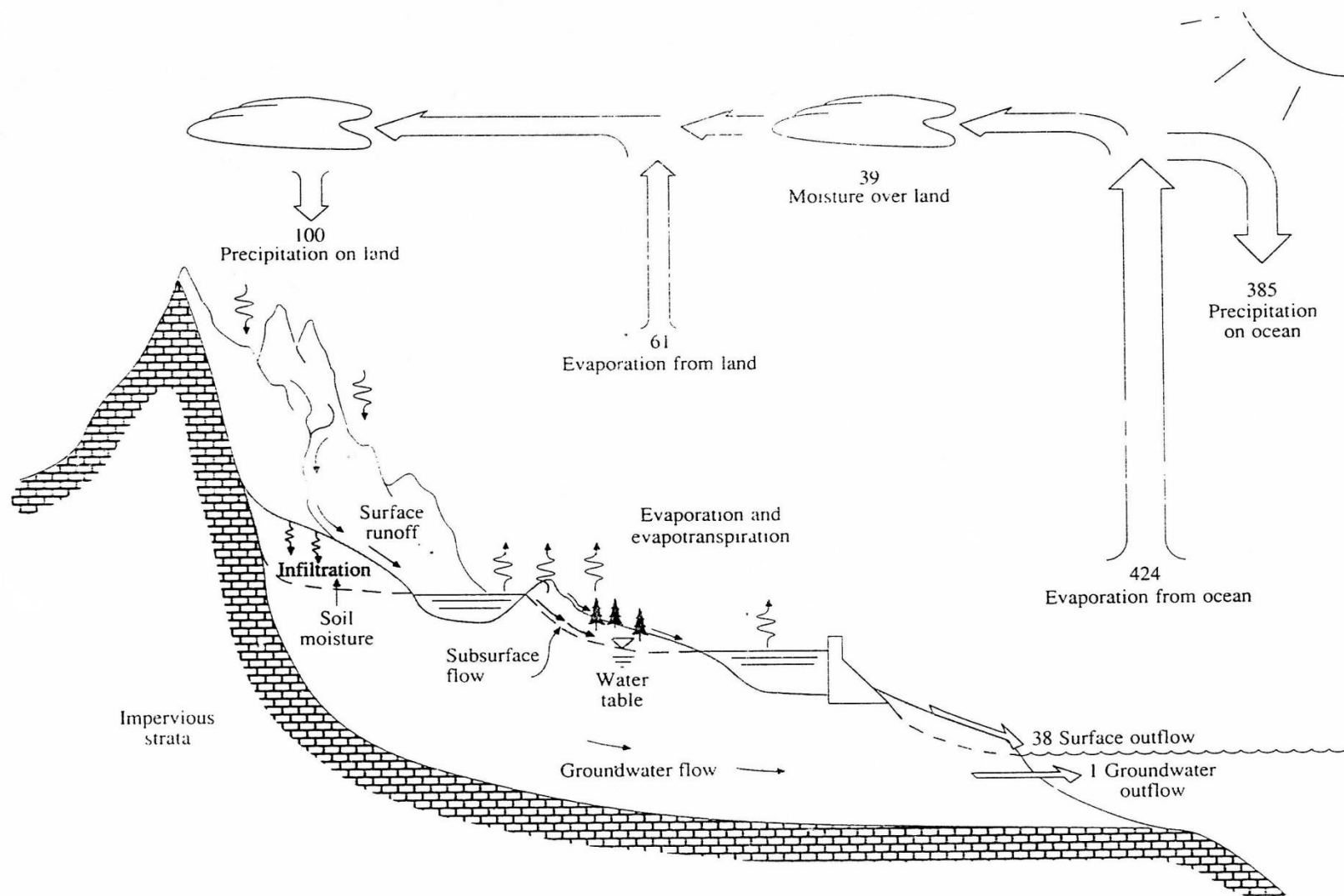
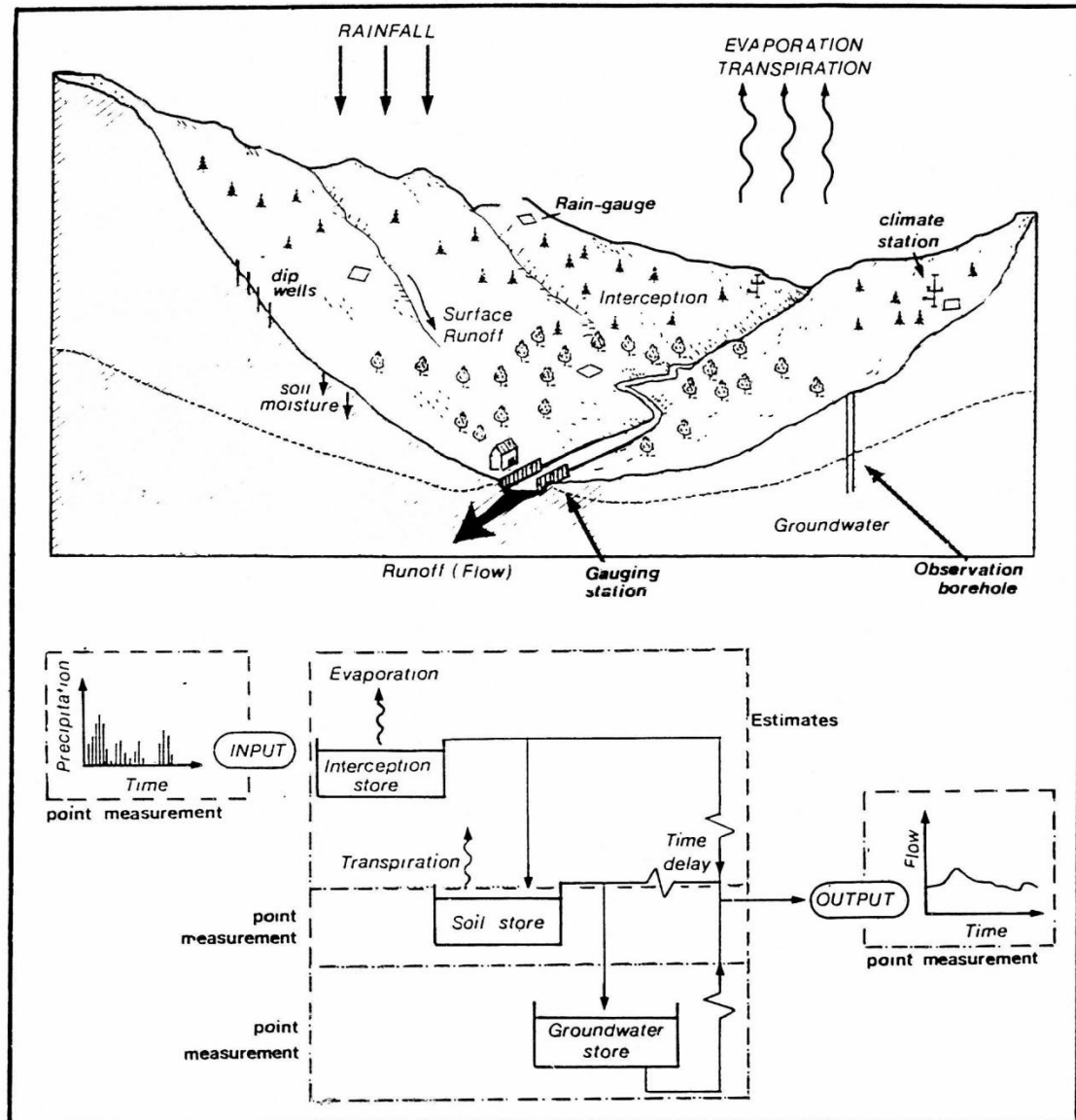
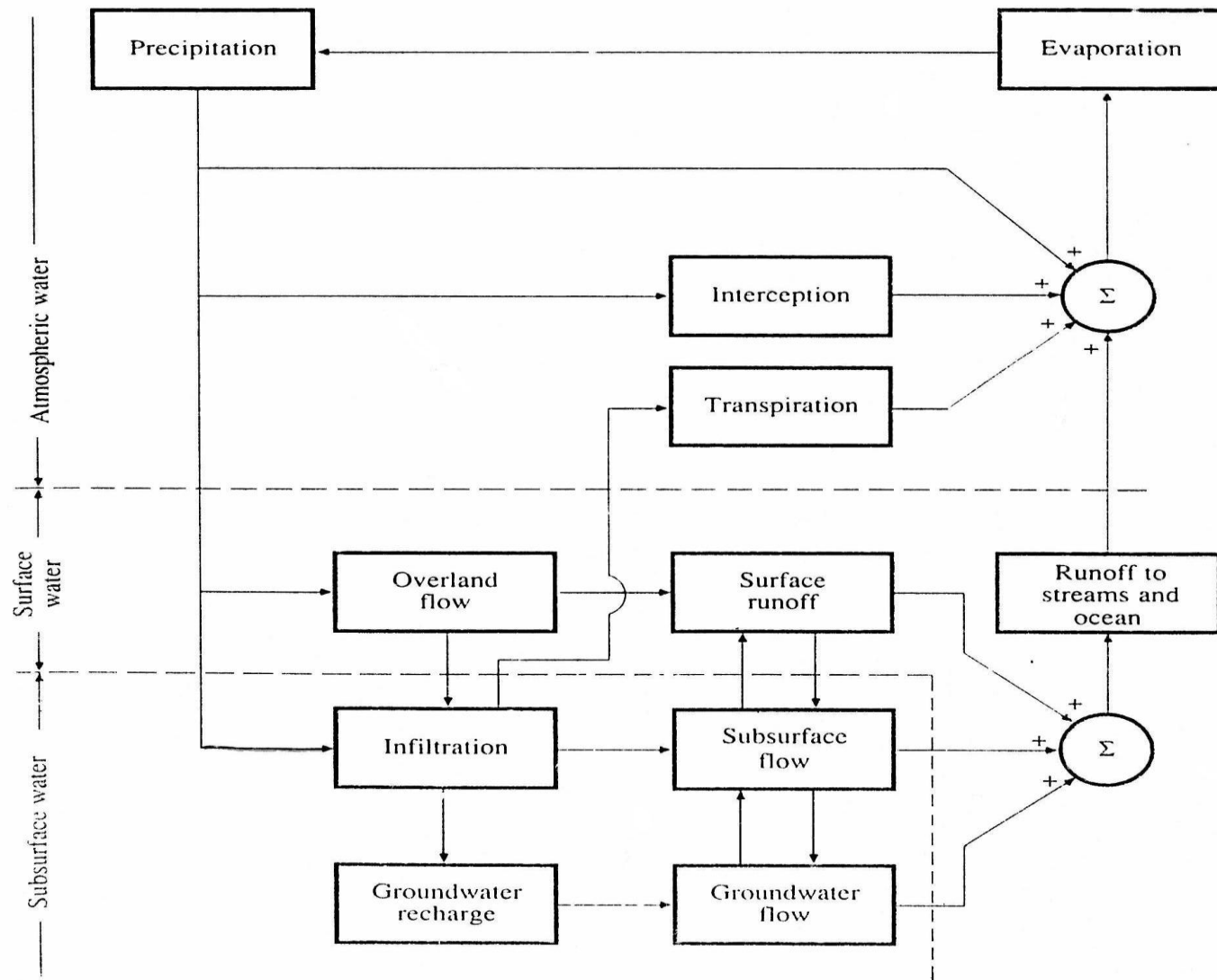


Fig. 2.2. The catchment hydrological cycle displayed as a landscape view and as a series of 'tank' stores which route an input precipitation through to a river flow (shown as time series). An emphasis is put on measurements in the cycle.





Weather hydrology (Meteorology)

The Atmosphere

1. dry air
 - Nitrogen (N_2) (78.09%)
 - Oxygen (O) (20.95% |)
 - Argon (Ar) (0.93%)
 - Carbon – dioxide (CO_2) (0.03%)
2. water vapor
3. impurities

Atmospheric Circulation

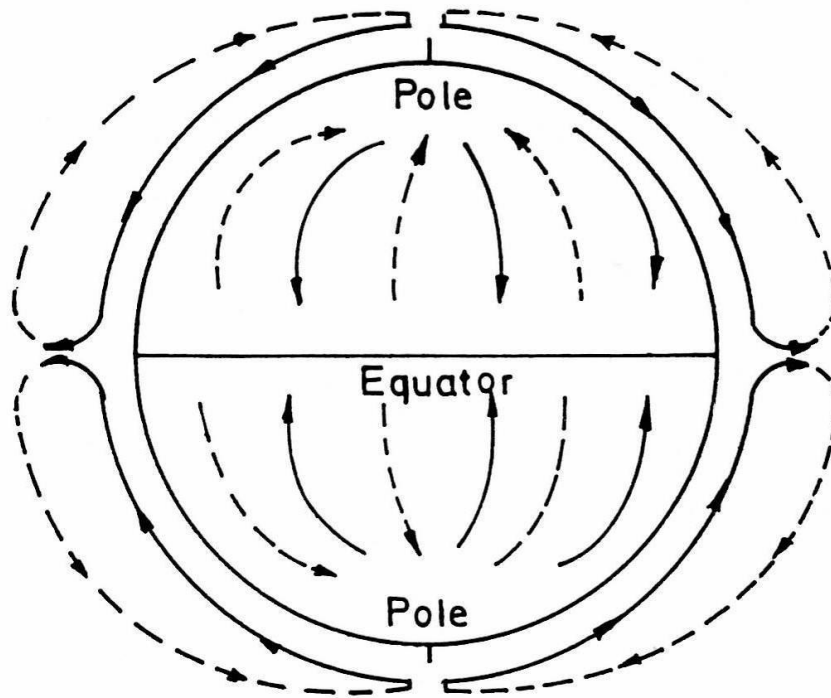


Figure Hadley Circulation

