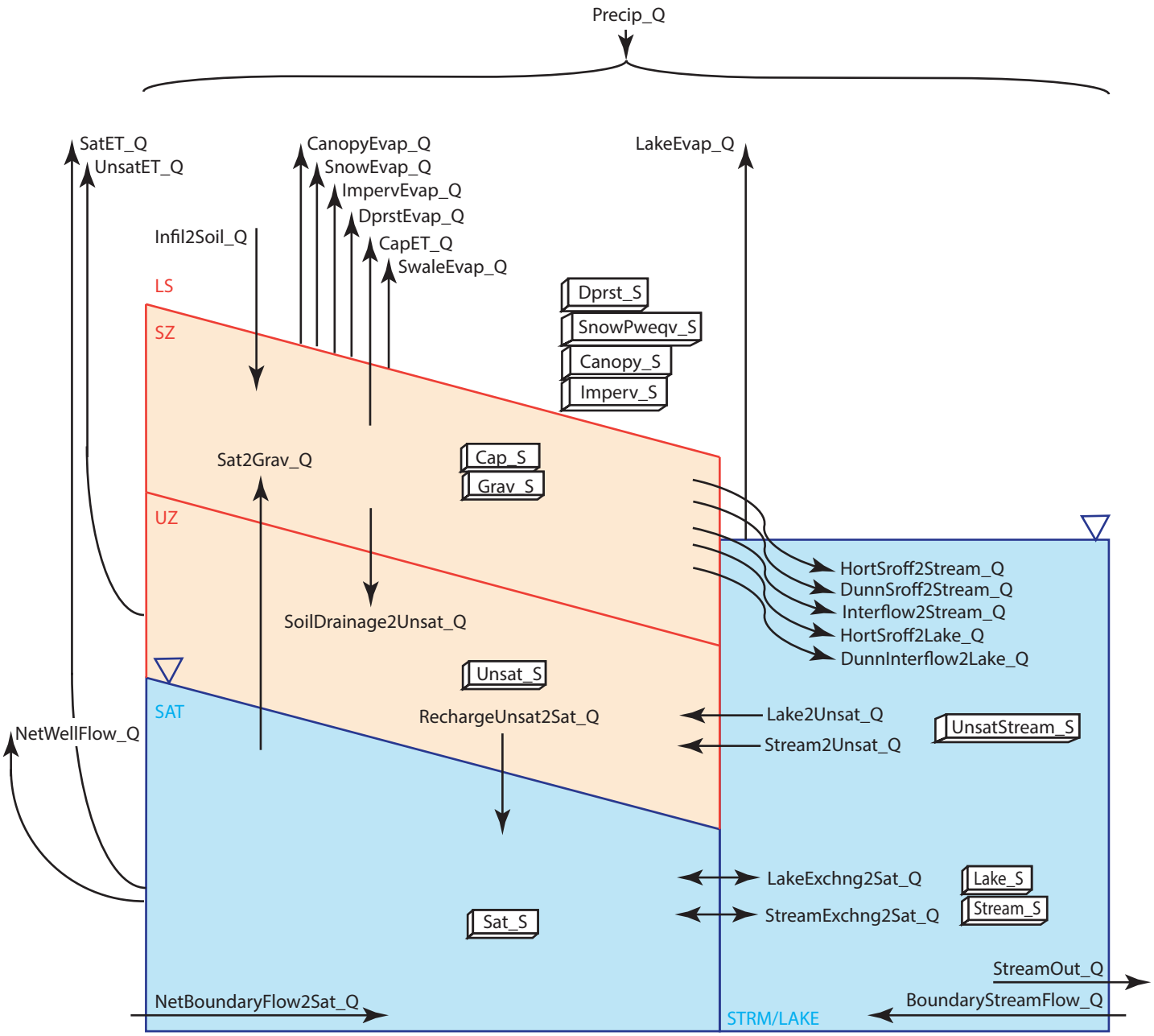
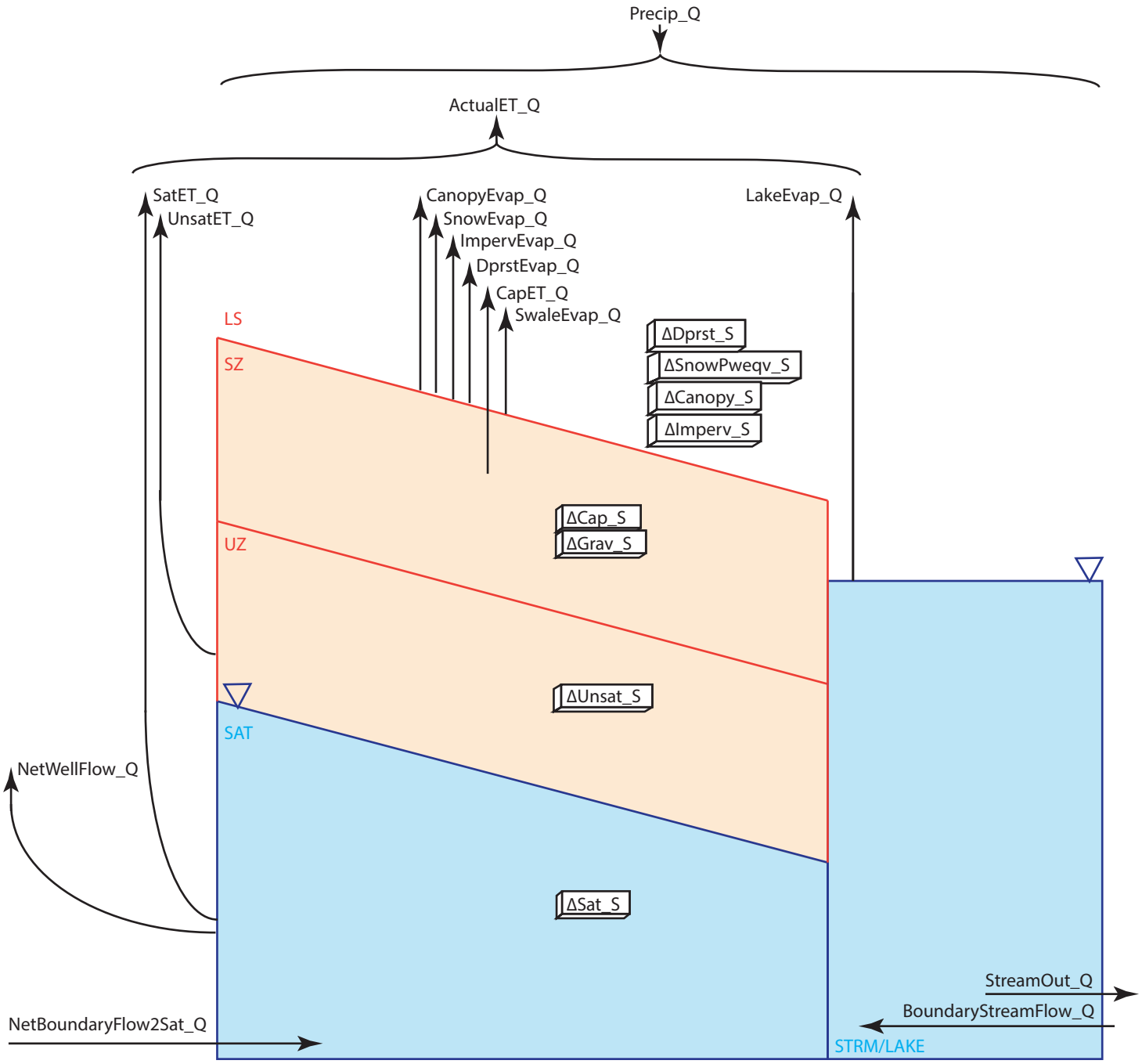


All Updated GSFLOW Budget Components

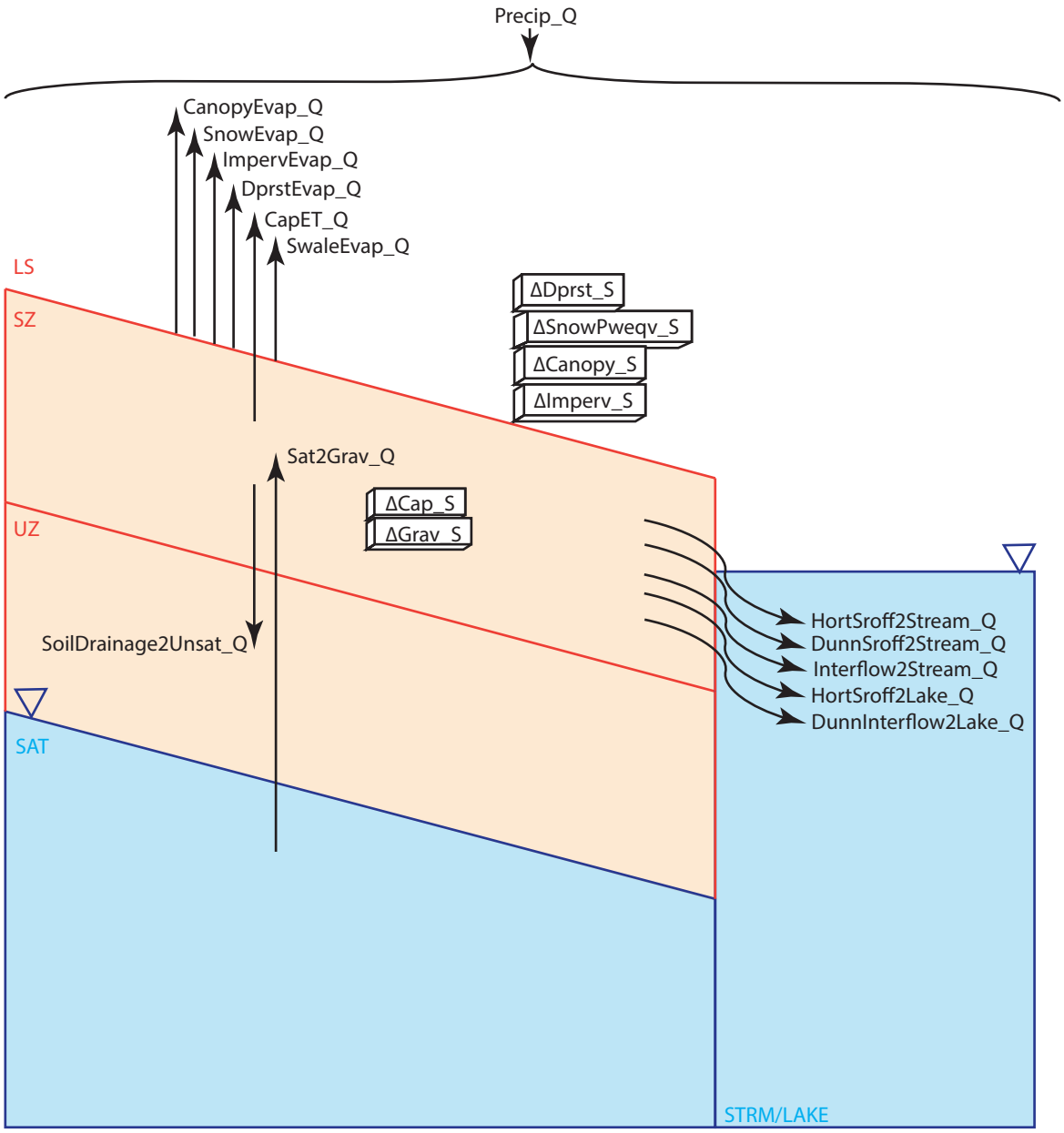
LS = Land Surface
SZ = Soil Zone
UZ = Unsaturated Zone
SAT = Groundwater
STRM/LAKE = Streams and Lakes



Basin Budget

ΔStorage = ΔDprst_S + ΔSnowPweqv_S + ΔCanopy_S + ΔImperv_S + ΔCap_S + ΔGrav_S + ΔUnsat_S + ΔSat_S
In = Precip_Q + NetBoundaryFlow2Sat_Q + BoundaryStreamFlow_Q
Out = StreamOut_Q + ActualET_Q + NetWellFlow_Q
ActualET_Q = SatET_Q + UnsatET_Q + CanopyEvap_Q + SnowEvap_Q + ImpervEvap_Q + DprstEvap_Q + CapET_Q + SwaleEvap_Q + LakeEvap_Q
Error = Storage Change - In + Out

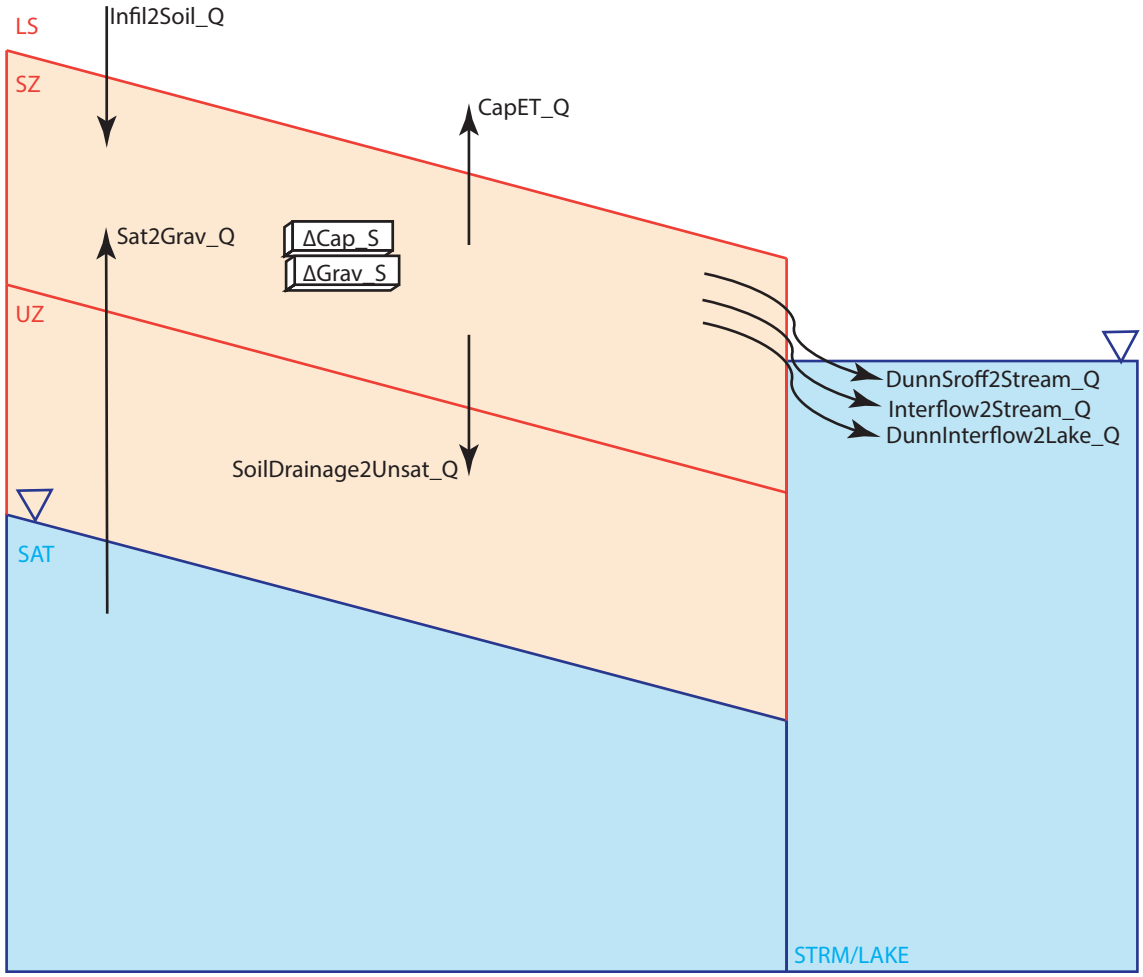
**Note: Terms denoted with the "Δ" symbol (e.g., *ΔCap_S*) are change-in-storage terms that are not GSFLOW output variables but have been calculated externally in the *gsflowAnalyis.xlsx* utility using storage terms output from GSFLOW. Similarly, *ActualET_Q* is calculated externally in the *gsflowAnalysis.xlsx* utility as the sum of *ET* and *Evap* terms.



HRU Budget

ΔStorage = ΔDprst_S + ΔSnowPweqv_S + ΔCanopy_S + ΔImperv_S + ΔCap_S + ΔGrav_S
In = Precip_Q + Sat2Grav_Q
Out = CanopyEvap_Q + SnowEvap_ Q + ImpervEvap_Q + DprstEvap_Q + CapET_Q + SwaleEvap_Q + SoilDrainage2Unsat_Q + HortSroff2Stream_Q + DunnSroff2Stream_Q + Interflow2Stream_Q + HortSroff2Lake_Q + DunnInterflow2Lake_Q
Error = ΔStorage - In + Out

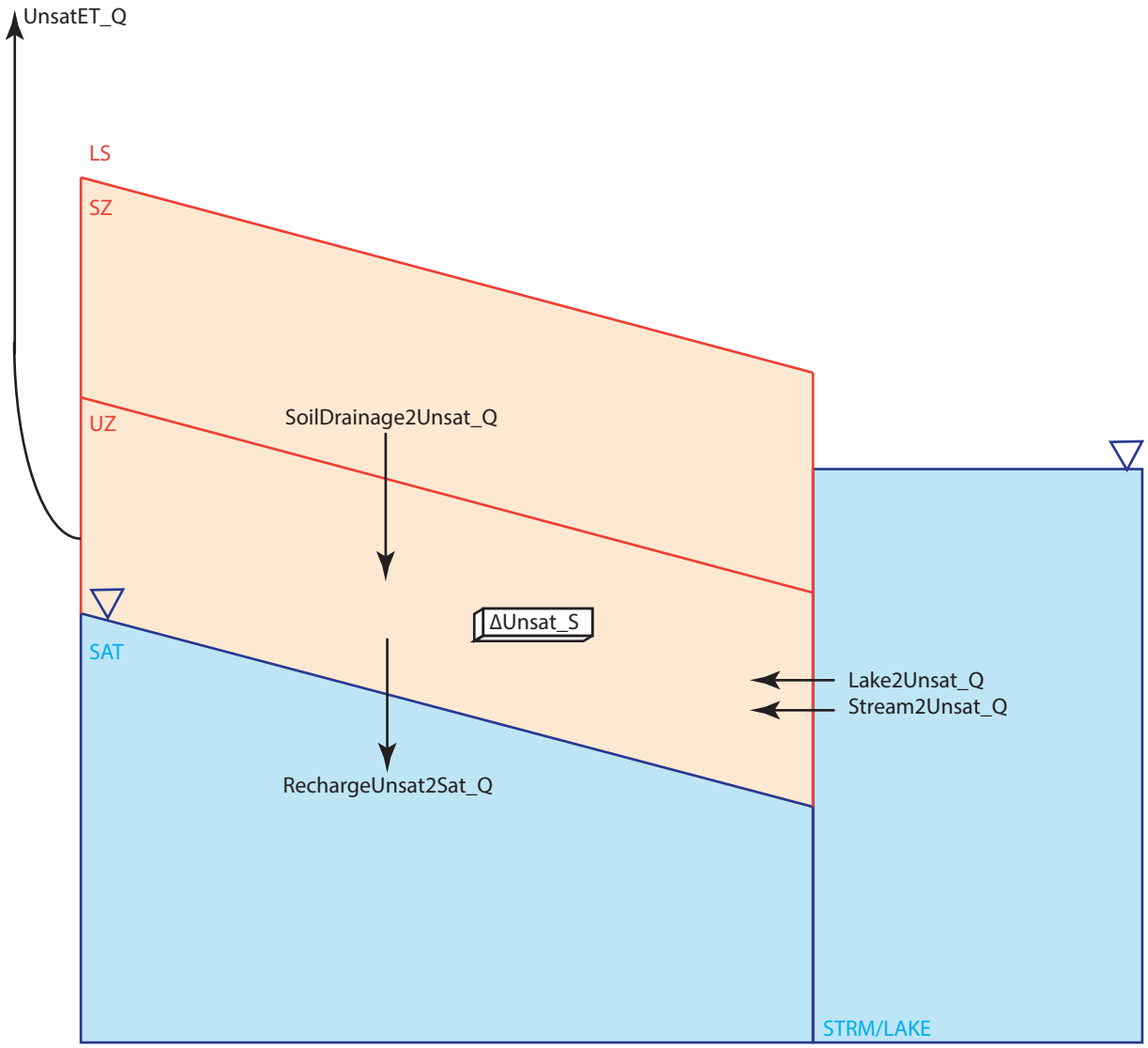
**Note: Terms denoted with the "Δ" symbol (e.g., *ΔCap_S*) are change-in-storage terms that are not GSFLOW output variables but have been calculated externally in the *gsflowAnalyis.xlsx* utility using storage terms output from GSFLOW.



Soil-Zone Budget

ΔStorage = ΔCap_S + ΔGrav_S
In = Sat2Grav _Q + Infil2Soil_Q
Out = DunnSroff2Stream_Q + Interflow2Stream_Q + DunnInterflow2Lake_Q + CapET_Q + SoilDrainage2Unsat_Q
Error = ΔStorage - In + Out

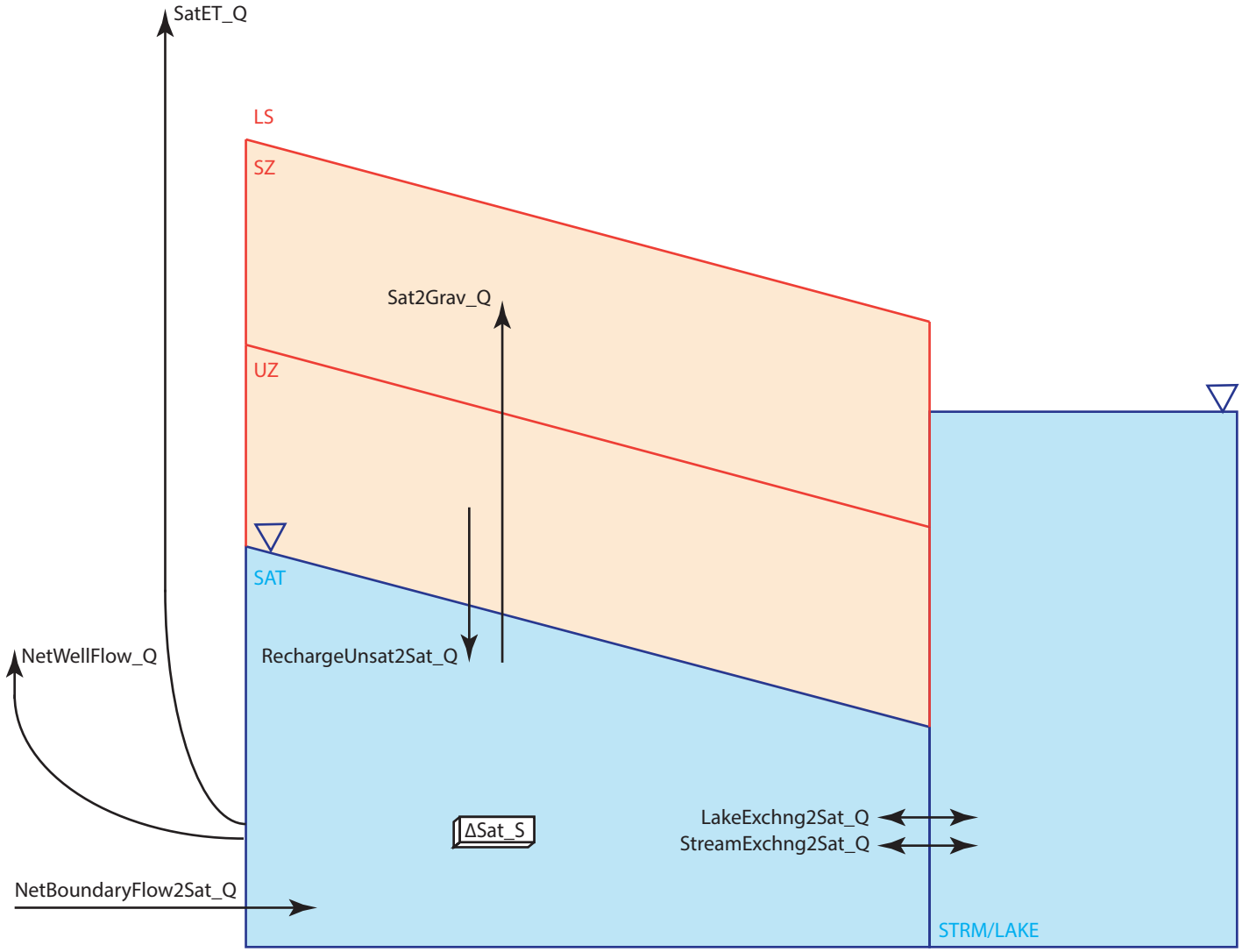
**Note: Terms denoted with the "Δ" symbol (e.g., *ΔCap_S*) are change-in-storage terms that are not GSFLOW output variables but have been calculated externally in the *gsflowAnalyis.xlsx* utility using storage terms output from GSFLOW.



Unsaturated-Zone Budget

In = SoilDrainage2Unsat_Q + Lake2Unsat_Q + Stream2Unsat_Q
Out = RechargeUnsat2Sat_Q + UnsatET_Q
Error = ΔUnsat_S - In + Out

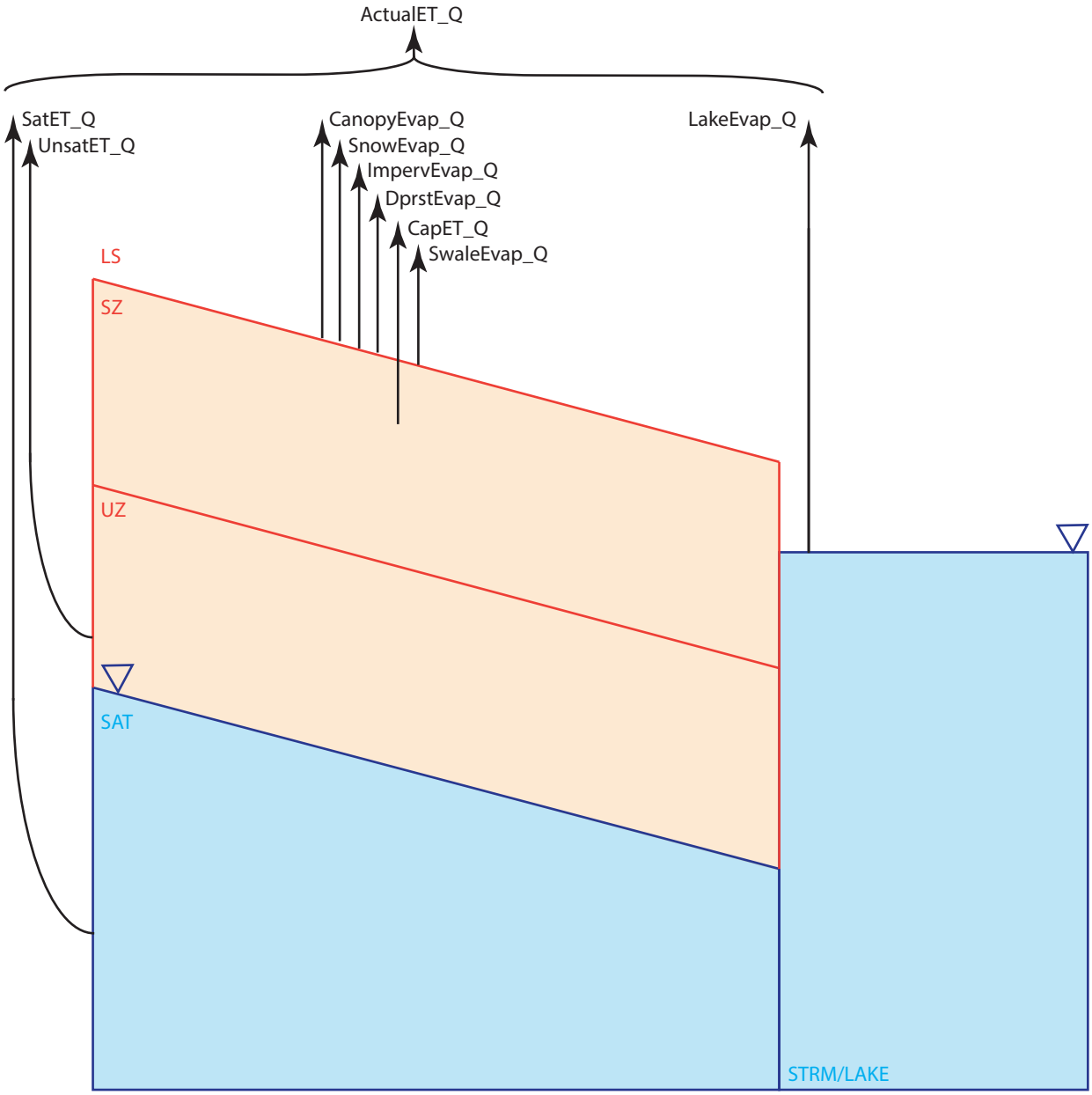
**Note: Terms denoted with the "Δ" symbol (e.g., *ΔUnsat_S*) are change-in-storage terms that are not GSFLOW output variables but have been calculated externally in the *gsflowAnalyis.xlsx* utility using storage terms output from GSFLOW.



Saturated-Zone Budget

In = RechargeUnsat2Sat_Q + NetBoundaryFlow2Sat_Q + LakeExchng2Sat_Q + StreamExchng2Sat_Q
Out = Sat2Grav_Q + SatET_Q + NetWellFlow_Q
Error = ΔSat_S - In + Out

**Note: Terms denoted with the "Δ" symbol (e.g., *ΔSat_S*) are change-in-storage terms that are not GSFLOW output variables but have been calculated externally in the *gsflowAnalyis.xlsx* utility using storage terms output from GSFLOW.



Evapotranspiration Budget

ActualET_Q = SatET_Q + UnsatET_Q + CanopyEvap_Q + SnowEvap_Q + ImpervEvap_Q + DprstEvap_Q + CapET_Q + SwaleEvap_Q + LakeEvap_Q

**Note: *ActualET_Q* is not a GSFLOW output variable but has been calculated externally in the *gsflowAnalysis.xlsx* utility as the sum of *ET* and *Evap* terms output from GSFLOW.