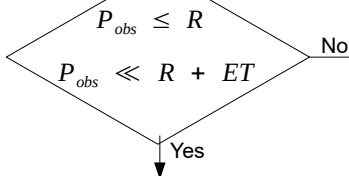


Compile catchment-averaged hydrological variables: P_{obs} , ET , R , ...

Objective 1 Identify water budget imbalance



Objective 2 Investigate causes of imbalance

Quantify large-scale water management (groundwater extraction, imports/exports, reservoir storage)

Quantify changes in TWS

Is water management minimal (relative to annual P)?
Is change in TWS minimal (relative to annual P)?

Assumptions: R and ET reliable;
change in TWS from GRACE is reasonable;
water management data is reasonable; inter-watershed groundwater flow is negligible

Yes

UoP likely

No

UoP unlikely

Objective 3

Compare UoP within IMD vs other P sources