## River Model Acronyms

The following are some of the acronyms used in river modeling. If you have a suggestion for another listing, please contact Teresa Murphy at [teresa.murphy@noaa.gov](mailto:teresa.murphy@noaa.gov) or 816.994.3022.

| **Acronym** | **Definition** | **Category** |
| --- | --- | --- |
| ADIMC | Additional Impervious Area | SAC-SMA State Modifiers |
| ADIMF | Additional Impervious Area Fraction | SAC-SMA States Fractions |
| ADIMM | Additional Impervious Area Max | SAC-SMA State Modifiers |
| AEIS | Antecedent Evaporation Index | Evaporation |
| AESC | Areal extent of Snow Cover | SNOW17 Modifiers (fractional) |
| AESCCHNG | Areal extent of Snow Cover Change | SNOW17 Modifiers (fractional) |
| AQME | River Discharge Adjusted Mean | Discharge (mean) |
| AQME | River Discharge Observed Mean | Discharge (mean) |
| BFC | Recession Coefficient Baseflow | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| CSTO | Reservoir Storage Change | RESERVOIR STORAGE |
| CVX | Coefficient of Variation Instantaneous | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| DFAC | Dimensionless Factor Simulated Instantaneous | DIMENSIONLESS REAL |
| DIR\_RO | Direct Runoff | RUNOFF |
| DQIE | Diversion Flow Observed+Projected Instantaneous | Discharge |
| DQIN | Diversion Flow Observed+Projected Instantaneous | Discharge |
| DQME | Diversion Flow Observed+Projected Mean | Discharge (mean) |
| DQMP | Diversion Flow Observed+Projected Mean | Discharge (mean) |
| EPAN | Evaporation Pan | Evaporation |
| EPL | Evaporation Lake | Evaporation |
| FBEL | Reservoir Forebay Elevation (Observed) | LEVEL |
| FEIX | Frost Efficiency Index Simulated | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| FFG | Gridded Flash Flood Guidance | FLASH FLOOD GUIDANCE |
| FFH | Headwater Guidance | HEADWATER GUIDANCE |
| FGDP | Frost Depth Observed | FROST DEPTH |
| FGINDEX | Frozen Ground Index | TEMPERATURE (DEGF) |
| FGIX | Frost Index Simulated Instantaneous | FROZEN GROUND INDEX |
| FLE | Freezing Level Estimate | ELEVATION MEAN |
| FLF | Freezing Level Forecast | ELEVATION MEAN |
| FMAP | Precipitation Areal Mean (Forecast) | PRECIPITATION |
| FMAPE | Forecasted Evapotranspiration Potential Areal Mean | EVAPOTRANSPIRATION |
| FMAPX | Gridded Precipitation Areal Mean Forecast | PRECIPITATION |
| FMAT | Air Temperature Areal Mean (Forecast) | MEAN TEMPERATURE |
| FMATX | Gridded Air Temperature (Forecast) | MEAN TEMPERATURE |
| FRZD | Frost Depth | FROST DEPTH |
| GATE | Gate Openings Observed+Projected | GATE |
| GCS | Gate Control Switch | DIMENSIONLESS INSTANTANEOUS |
| GOUT | Glacier Outflow Melt | RUNOFF |
| GTCS | Gate Control Switch | DIMENSIONLESS INSTANTANEOUS |
| GWRO | Groundwater (baseflow) | RUNOFF |
| HDAT | Hours to Date of an Observation | TIME |
| ICET | Ice Thickness Observed | FROST DEPTH |
| IHFSDB | Integrated Hydrologic Forecast System Database | Database |
| IMP\_RO | Impervious Runoff | RUNOFF |
| INFW | Runoff Inflow to Channel | RUNOFF |
| INT\_RO | Intermediate Runoff | RUNOFF |
| KP | Assimilator Precipitation Multiplier | DIMENSIONLESS REAL MEAN |
| LAKH | Tailwater Stage Spillway Observed | LEVEL |
| LELV | Lake Height Observed | LEVEL |
| LIQW | Liquid Water in Snowpack | PRECIPITATION |
| LZFPC | Lower Zone Free Primary Content | SAC-SMA State Modifiers |
| LZFPF | Lower Zone Free Primary Fraction | SAC-SMA States Fractions |
| LZFPM | Lower Zone Free Primary Max | SAC-SMA State Modifiers |
| LZFSC | Lower Zone Free Supplemental Content | SAC-SMA State Modifiers |
| LZFSF | Lower Zone Free Supplemental Fraction | SAC-SMA States Fractions |
| LZFSM | Lower Zone Free Supplemental Max | SAC-SMA State Modifiers |
| LZP | Lower Zone Water Percentage | SAC-SMA State Modifiers |
| LZTDEF | Lower Zone Tension Water Deficit | SAC-SMA State Modifiers |
| LZTWC | Lower Zone Tension Water Content | SAC-SMA State Modifiers |
| LZTWD | Lower Zone Tension Water Deficit | SAC-SMA State Modifiers |
| LZTWF | Lower Zone Tension Water Fraction | SAC-SMA States Fractions |
| LZTWM | Lower Zone Tension Water Max | SAC-SMA State Modifiers |
| MAP | Precipitation Areal Mean | PRECIPITATION |
| MAPE | Evapotranspiration Potential Areal Mean | EVAPOTRANSPIRATION |
| MAPG | Grid Precipitation Areal Mean | PRECIPITATION |
| MAPI | API Areal Mean | API |
| MAPX | Gridded Precipitation Areal Mean Estimated | PRECIPITATION |
| MARO | Runoff Areal Mean | RUNOFF |
| MAT | Air Temperature Areal Mean | MEAN TEMPERATURE |
| MATX | Gridded Temperature Areal Mean | MEAN TEMPERATURE |
| MAWE | Snow Cover Water Equivalent Areal Mean | SNOW COVER DEPTH |
| MFC | Melt factor coefficient | SNOW17 MODIFIERS REAL |
| MOPE | Evapotranspiration Potential from Monthly Mean | EVAPOTRANSPIRATION |
| NAEFS | North American Ensemble Forecast System |  |
| NEGHS | Negative Heat Storage | ENERGY |
| NFBD | Flash Boards Down Number Observed+Projected | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| OPKS | Peak within Fixed Window Observed | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| PCFD | Diverted Flow from Channel Percent | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| PELE | Reservoir Pool Elevation (Simulated) | LEVEL |
| PELV | Reservoir Pool Elevation (Observed) | LEVEL |
| PLDS | Simulated Value at Fixed Lead | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| PP24 | Observed precipitation (24 hour) | PRECIPITATION |
| PPVR | Observed precipitation (less than 24 hour) | PRECIPITATION |
| PQNET | Net Energy Flux | ENERGY |
| PRAIN | Precipitation as Rain | PRECIPITATION |
| PRI\_RO | Primary Runoff | RUNOFF |
| PSFALL | Precipitation as Snow | PRECIPITATION |
| PSRO | Runoff Surface Percent | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| PTPE | Evapotranspiration Potential Point | EVAPOTRANSPIRATION |
| PTPP | Precipitation Point Missing not allowed | PRECIPITATION |
| PTPS | Precipitation Snowfall (Fraction) | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| PTPX | Precipitation Point Missing allowed | PRECIPITATION |
| QIN | River Discharge Observed Instantaneous | Discharge |
| QINE | River Discharge Adjusted Instantaneous | Discharge |
| QINH | River Discharge Computed Instantaneous | Discharge |
| QME | Discharge Mean | Discharge |
| QPE | Precipitation Observed Gridded | PRECIPITATION |
| QPF | Precipitation Forecast Gridded | PRECIPITATION |
| QTE | Quantitative Temperature Estimate (Gridded) | TEMPERATURE (DEGF) |
| QTF | Quantitative Temperature Forecast (Gridded) | TEMPERATURE (DEGF) |
| RAIM | Precipitation Rain + Melt | PRECIPITATION |
| RAINSNOW | Rain/Snow switch | SNOW17 MODIFIERS INSTANTANEOUS |
| ROCL | Runoff Components (SAC) | RUNOFF |
| RQGM | Power Generation Observed Mean | Discharge (mean) |
| RQIE | Reservoir Outflow (Observed and Projected) | Discharge |
| RQIM | Reservoir Inflow Observed Mean | Discharge (mean) |
| RQIN | Reservoir Inflow (Observed) | Discharge |
| RQME | Reservoir Outflow (Observed and Projected) Mean | Discharge (mean) |
| RQMP | Reservoir Outflow (Observed and Projected) Mean | Discharge (mean) |
| RQOT | Reservoir Outflow (Observed and Projected) | Discharge |
| RQSW | Reservoir Spillway Observed | Discharge |
| RSEL | Rain-Snow Elevation | ELEVATION MEAN |
| RSTE | Reservoir Storage (Adjusted) | RESERVOIR STORAGE |
| RSTO | Reservoir Storage (Observed) | RESERVOIR STORAGE |
| SACBASEF | Baseflow Correction Coefficient | SACSMA MODIFIERS - REAL NUMBERS |
| SASC | Snow Cover Areal Extent (Simulated) | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| SDQI | Diversion Flow Simulated Instantaneous | DISCHARGE |
| SDQM | Diversion Flow Simulated Mean | Discharge (mean) |
| SETQMEAN | Mean Outflow | RESSNGL MODIFIERS |
| SFGD | Frost Index Simulated Instantaneous | FROST DEPTH |
| SLSM | Temperature | TEMPERATURE (DEGF) |
| SMZC | Soil Moisture Storage (SAC) | SAC-SMA State Modifiers |
| SNOF | Snowfall Depth Observed | PRECIPITATION |
| SNOG | Snow Cover Depth (Observed) | SNOW COVER DEPTH |
| SNSG | Snow Cover Depth (Simulated) | SNOW COVER DEPTH |
| SNTMP | Simulated Snow Temperature | TEMPERATURE (DEGF) |
| SNWE | Snow Cover Water Equivalent (Observed) | SNOW COVER DEPTH |
| SPEL | Reservoir Pool Stage (Simulated) | LEVEL |
| SPKS | Peak within Fixed Window Simulated | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |
| SQIB | River Discharge Sim (inst begin) | DISCHARGE |
| SQIE | River Discharge Sim (inst end) | DISCHARGE |
| SQIN | River Discharge Simulated Instantaneous | DISCHARGE |
| SQME | River Discharge Simulated Mean | Discharge (mean) |
| SRSO | Reservoir Storage (Simulated) | RESERVOIR STORAGE |
| SST | Simulated Snow Temperature | TEMPERATURE (DEGF) |
| SSTG | River Stage Simulated | LEVEL |
| STG | River Stage Observed | LEVEL |
| STGE | River Stage Adjusted | LEVEL |
| STGH | River Stage Computed Instantaneous | LEVEL |
| STID | Simulated Tide NOS-Generated Instantaneous | LEVEL |
| STW | Tail Water Stage (Simulated) | LEVEL |
| SUP\_RO | Supplementary Runoff | RUNOFF |
| SUR\_RO | Surface Runoff | RUNOFF |
| SURO | Runoff Storm | RUNOFF |
| SVIN | River Velocity Simulated Mean | VELOCITY |
| SWE | Snow Cover Water Equivalent (Simulated) | SNOW COVER DEPTH |
| TAIN | Air Temperature Point Instantaneous | TEMPERATURE (DEGF) |
| TAMN | Observed Air Temperature (24 hour Minimum) | TEMPERATURE (DEGF) |
| TAMX | Observed Air Temperature (24 hour Maximum) | TEMPERATURE (DEGF) |
| TAVG | Air Temperature Point Mean | MEAN TEMPERATURE |
| TAVR | Observed Air Temperature (Instantaneous) | TEMPERATURE (DEGF) |
| TCI | Total Channel Info | RUNOFF |
| TFMN | Forecast Air Temperature (24 hour Minimum) | TEMPERATURE (DEGF) |
| TFMX | Forecast Air Temperature (24 hour Maximum) | TEMPERATURE (DEGF) |
| TID | Observed Tide Instantaneous | LEVEL |
| TIDE | Adjusted Tide Observed+Projected Instantaneous | LEVEL |
| TWEL | Tail Water Stage Observed | LEVEL |
| TWSW | Tailwater Stage Spillway Observed | LEVEL |
| UADJ | Average wind function adjustment | SNOW17 MODIFIERS REAL |
| UZFWC | Upper Zone Free Water Content | SAC-SMA State Modifiers |
| UZFWF | Upper Zone Free Water Fraction | SAC-SMA States Fractions |
| UZFWM | Upper Zone Free Water Max | SAC-SMA State Modifiers |
| UZP | Upper Zone Water Percentage | SAC-SMA State Modifiers |
| UZTDEF | Upper Zone Tension Water Deficit | SAC-SMA State Modifiers |
| UZTWC | Upper Zone Tension Water Content | SAC-SMA State Modifiers |
| UZTWD | Upper Zone Tension Water Deficit | SAC-SMA State Modifiers |
| UZTWF | Upper Zone Tension Water Fraction | SAC-SMA States Fractions |
| UZTWM | Upper Zone Tension Water Max | SAC-SMA State Modifiers |
| VSQI | Standard Error Discharge Simulated Instantaneous | DISCHARGE |
| VSQM | Standard Error Discharge Simulated Mean | Discharge (mean) |
| WE | Water Equivalent | SNOW17 MODIFIERS |
| WEADD | Water Equivalent Addition | SNOW17 MODIFIERS |
| WECHNG | Water Equivalent Change | SNOW17 MODIFIERS |
| ZELF | Freezing Level (Projected) | ELEVATION MEAN |
| ZELV | Freezing Level (Observed) | ELEVATION MEAN |
| ZRX | Zero Rain Fraction Instantaneous | DIMENSIONLESS FRACTIONAL MEAN PERCENTAGE |