EDHM Routine data description document

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# Energy

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| TCanopy |  | Cel |
| TSoil |  | Cel |
| TSnow |  | Cel |

# Aerodyna

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| AerodynaResist |  |  |
| ArchitecturalResist |  |  |
| StomatalResist |  |  |
| AerodynaResistCanopy |  |  |
| AerodynaResistSnow |  |  |
| ReferHeightCanopy |  |  |
| ReferHeightSnow |  |  |
| RoughCanopy |  |  |
| RoughSnow |  |  |
| DisplacCanopy |  |  |
| DisplacSnow |  |  |
| WindSpeedCanopy |  |  |
| WindSpeedSnow |  |  |

# Atmos

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| PVegVaporFlux |  |  |
| VegVaporFlux |  |  |
|  |  |  |

# Prec

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| Precipitation | Total precipitation (rain and snow) | mm |
| SnowFall | Snow equivalent water, not true snow depth | mm |
| RainFall |  | mm |

# Canopy

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| StorageCapacity |  | mm |
| SnowStorageCapacity |  | mm |
|  |  |  |

# ET

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| RET | Reference evapotranspiration | mm |
| ET | Total evapotranspiration | mm |
| Transpiration | Transpiration from canopy | mm |
| Evaporation | Total evaporation | mm |
| EvaporationCanopy | Evaporation from canopy | mm |
| EvaporationLand | Evaporation from land surface | mm |

# Intercept

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| Interception |  | mm |
| InterceptRain |  | mm |
| InterceptSnow |  | mm |
|  |  |  |

# Ground

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| ZoneMoistureVolume[1:n] |  | mm |
| MoistureVolume |  | mm |
| MoistureCapacity |  |  |
| MoistureCapacityMax |  | mm |
| HydraulicConductivity |  |  |
| WettingFrontSoilSuction |  |  |
| MoistureContent |  |  |
| EffectivePorosity |  |  |
| ZoneDepth[1:n] |  |  |
| Runoff |  | mm/ |
| BaseFlow |  | mm |

# Infilt

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| Infiltration |  | mm |
| InfiltrationRate |  |  |
| InfiltrationRateMax |  |  |

# Runoff

RUNOFF

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| NDay | Oder of the day of the year | N/A |
| NMon | Oder of the month of the year | N/A |
|  |  |  |

# Snow

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| Blowing | Oder of the day of the year | N/A |
|  |  |  |
|  |  |  |

# Route

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| WaterSource[1:n] |  |  |
| SurFlow | surface flow over grid(land) | m3/s |
| BasFlow | base flow from ground water | m3/s |
| StaFlow | station flow in a grid(station) | m3/s |

# IUH

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
|  |  |  |
|  |  |  |
| UHMethond[1: UHN] | the methond of the IUH | list |
| UHParam | the parameters of the IUH |  |
| UHAll |  |  |

# Confluence

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| WSN | the number of water source |  |
| GSN | the number of step from grid to station |  |
| TransAll |  |  |
| TypeGridID |  |  |
|  |  |  |

# Param

|  |  |  |
| --- | --- | --- |
| Variable | Description | Units |
| SoilMoistureCapacityB | fctSoilInfiltration |  |
| InfiltrationRateB | Infiltration.OIER |  |
| ClappHornbergerB |  |  |
| ExponentARNOBase | BASEFLOW.ARNO |  |
| ARNOBaseThresholdRadio | BASEFLOW.ARNO |  |
| DrainageLossMax | BASEFLOW.ARNO |  |
| DrainageLossMin | BASEFLOW.ARNO |  |
| CoefficientFreeThroughfall | INTERCEPTION.Gash |  |
| UHPeriodN | IUH the number of UH period | **N/A** |
| UHN | the number of UH |  |
| WSN | IUH the number of water source |  |
| GridN |  |  |
| PeriodN |  |  |
| GSN | IUH the number of step from grid to station |  |
| CanopyCapacity | ET.VIC | mm |
| ZoneDepth[1:n] |  | mm |