生态变量输出表：

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| --- | --- | --- | --- |
| **Ecological variables** | | | |
| **Order** | **Name** | **Unit** | **Description** |
| 1 | Year |  | Year |
| 2 | mon |  | Month |
| 3 | Day |  | Day |
| 4 | ID |  | Patch ID |
| 5 | XX |  | x-coordinate |
| 6 | YY |  | y-coordinate |
| 7 | LAI | m2/m2 | Leaf area index |
| 8 | PAI | m2/m2 | Plant area index |
| 9 | GPP | gC/m2 | Gross primary productivity |
| 10 | NPP | gC/m2 | Net primary productivity |
| 11 | Aresp | gC/m2 | Ecosystem respiration |
| 12 | Arespm | gC/m2 | Plant maintenance respiration |
| 13 | Arespg | gC/m2 | Plant growth respiration |
| 14 | AsoilHr | gC/m2 | Soil heterotrophic respiration |
| 15 | AsoilAr | gC/m2 | Soil autotrophic respiration |
| 16 | LeafC | gC/m2 | Leaf carbon |
| 17 | StemC | gC/m2 | Stem carbon |
| 18 | DstemC | gC/m2 | Dead stem carbon |
| 19 | Rootc | gC/m2 | Root carbon |
| 20 | CrootC | gC/m2 | Coarse root carbon |
| 21 | DrootC | gC/m2 | Dead root carbon |
| 22 | LitrC | gC/m2 | Litter carbon |
| 23 | SoilC | gC/m2 | Soil carbon |
| 24 | Cpool | gC/m2 | Carbon pool |
| 25 | LeafN | gN/m2 | Leaf nitrogen |
| 26 | StemN | gN/m2 | Stem nitrogen |
| 27 | DstemN | gN/m2 | Dead stem nitrogen |
| 28 | RootN | gN/m2 | Root nitrogen |
| 29 | CrootN | gN/m2 | Coarse root nitrogen |
| 30 | DCrootN | gN/m2 | Dead coarse root nitrogen |
| 31 | LitrN | gN/m2 | Litter nitrogen |
| 32 | SoilN | gN/m2 | Soil nitrogen |
| 33 | Npool | gN/m2 | Nitrogen pool |
| 34 | Anitrate | gN/m2 | Soil nitrification |
| 35 | AsminN |  |  |
| 36 | AsurfN |  | Surface nitrogen |
| 37 | AstreamN |  | stream nitrogen |
| 38 | Denitrif |  | Soil denitrification |
| 39 | Anitrif |  |  |
| 40 | DOC | gC/m2 | Dissolve organic carbon |
| 41 | DON | gC/m2 | Dissolved organic nitrogen |
| 42 | R\_Depth | m | Root depth |

水文变量输出表

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| --- | --- | --- | --- |
| **Hydrological variables** | | | |
| **Order** | **Name** | **Unit** | **Description** |
| 1 | Year |  | Year |
| 2 | mon |  | Month |
| 3 | Day |  | Day |
| 4 | ID |  | Patch ID |
| 5 | XX |  | x-coordinate |
| 6 | YY |  | y-coordinate |
| 7 | DayRain | mm | Daily rainfall |
| 8 | DaySnow | mm | Daily snowfall |
| 9 | Rain\_thr | mm | Rain throughfall |
| 10 | Snow\_thr | mm | Snow throughfall |
| 11 | SoilDe\_S | mm | Soil detention store |
| 12 | Prec\_S | mm | Precipitation storage |
| 13 | Canopy\_S | mm | Canopy storage |
| 14 | CaIntTot | mm | Total canopy interception |
| 15 | CaRainIn | mm | Canopy interception of rainfall |
| 16 | CaSnowIn | mm | Canopy interception of snow |
| 17 | StreamF | mm/day | Streamflow |
| 18 | BaseFlow | mm/day | Baseflow |
| 19 | ReturnF | mm/day | Returnflow or overland flow |
| 20 | PET | mm | Potential evapotranspiration |
| 21 | AET | mm | Actual evapotranspiration |
| 22 | Evapo | mm | Surface evaporation |
| 23 | Trans | mm | Plant transpiration |
| 24 | Can\_Evap | mm | Evaporation of canopy intercepted water |
| 25 | SnowPack | mm | Snowpack depth |
| 26 | Sublimat | mm | Snow sublimation |
| 27 | SnowMelt | mm | Snow melt |
| 28 | WaterTD | mm | Soil water table depth |
| 29 | Sat\_Defi | mm | Soil saturation deficit |
| 30 | Rootz\_S | mm | Water storage in rootzone |
| 31 | Unsat\_S | mm | Water storage in unstaturated zone |
| 32 | RootZ\_Dr | mm | water drainage from root zone |
| 33 | Unsat\_Dr | mm | water drainage from unsaturated zone |
| 34 | Cap\_rise | mm | soil water capillary rise |
| 35 | RSMC | % | Relative soil moisture content |
| 36 | GwDrain | mm | Loss of rainthroughfall to groundwater |
| 37 | GwStorQ | mm | Groundwater storage |
| 38 | GwStorN |  | Groundwater nitrate storage |
| 39 | GwQout | mm | Groundwater discharge |
| 40 | GwNout |  | Groundwater nitrate discharge |
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|  |  |  |  |